

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF080922\  
 Data File : BF129686.D  
 Acq On : 10 Aug 2022 02:12  
 Operator : CG\JU  
 Sample : N4068-01RE  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BU-02-080522RE

Quant Time: Aug 10 05:38:58 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF072522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 05 16:27:34 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Christian Giraldo 08/10/2022  
 Supervised By : Jagrut Upadhyay 08/10/2022

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.839  | 152  | 170919   | 20.000  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.122  | 136  | 627744   | 20.000  | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.880  | 164  | 279522   | 20.000  | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.369 | 188  | 374159   | 20.000  | ng    | #-0.01   |
| 76) Chrysene-d12            | 14.021 | 240  | 276544   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 15.498 | 264  | 227670   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.481  | 112  | 1056618  | 100.704 | ng    | 0.00     |
| 7) Phenol-d6                | 6.510  | 99   | 1282834  | 97.272  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.410  | 82   | 797193   | 69.324  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.674 | 330  | 235543   | 87.647  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.198  | 172  | 1355318  | 75.007  | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.957 | 244  | 995407   | 67.907  | ng    | -0.01    |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 49) Acenaphthylene          | 9.739  | 152  | 199329   | 7.955   | ng    | 99       |
| 58) Fluorene                | 10.427 | 166  | 69379    | 3.843   | ng    | 99       |
| 71) Phenanthrene            | 11.398 | 178  | 900729   | 44.101  | ng    | 98       |
| 72) Anthracene              | 11.445 | 178  | 242602   | 12.087  | ng    | 98       |
| 73) Carbazole               | 11.604 | 167  | 66842    | 3.538   | ng    | 98       |
| 75) Fluoranthene            | 12.592 | 202  | 1120757  | 54.157  | ng    | 99       |
| 78) Pyrene                  | 12.821 | 202  | 1171528  | 50.660  | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.010 | 228  | 582786   | 30.851  | ng    | 97       |
| 83) Chrysene                | 14.051 | 228  | 581604   | 32.668  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.986 | 276  | 243922m  | 15.910  | ng    |          |
| 88) Benzo(b)fluoranthene    | 15.068 | 252  | 631504m  | 41.816  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.092 | 252  | 198967m  | 13.444  | ng    |          |
| 90) Benzo(a)pyrene          | 15.439 | 252  | 443639   | 36.187  | ng    | 97       |
| 91) Dibenzo(a,h)anthracene  | 16.992 | 278  | 74535    | 5.973   | ng    | # 84     |
| 92) Benzo(g,h,i)perylene    | 17.445 | 276  | 244940   | 19.210  | ng    | 99       |
| -----                       |        |      |          |         |       |          |

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

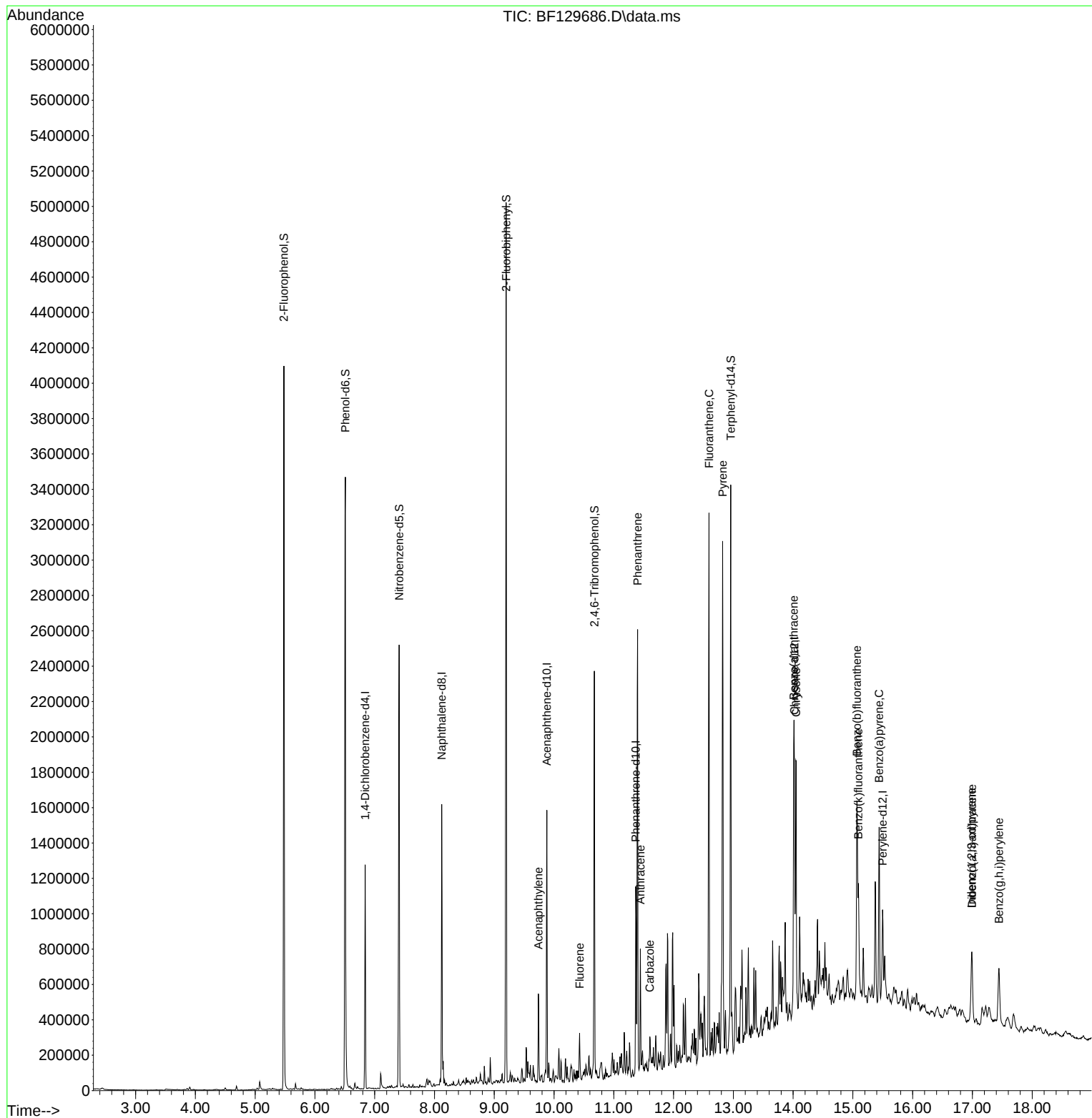
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF080922\  
Data File : BF129686.D  
Acq On : 10 Aug 2022 02:12  
Operator : CG\JU  
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ALS Vial : 20 Sample Multiplier: 1

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BNA\_F  
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QLast Update : Fri Aug 05 16:27:34 2022  
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Manual Integrations  
APPROVED

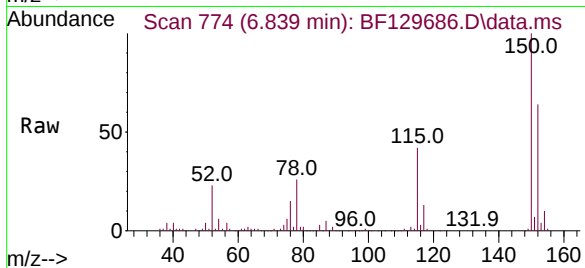
Reviewed By :Christian Giraldo 08/10/2022  
Supervised By :Jagrut Upadhyay 08/10/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.839 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

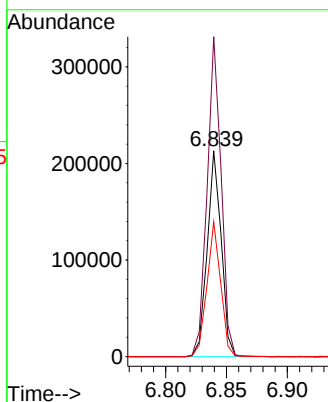
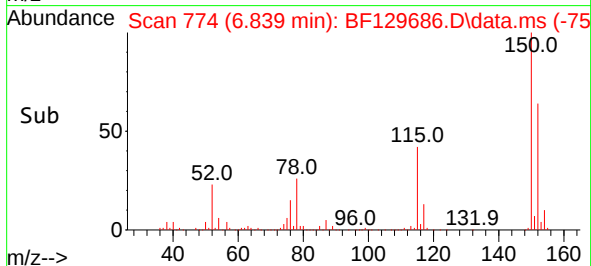
Instrument :  
BNA\_F  
ClientSampleId :  
BU-02-080522RE



Tgt Ion:152 Resp: 170919  
Ion Ratio Lower Upper  
152 100  
150 155.5 123.7 185.5  
115 65.4 49.9 74.9

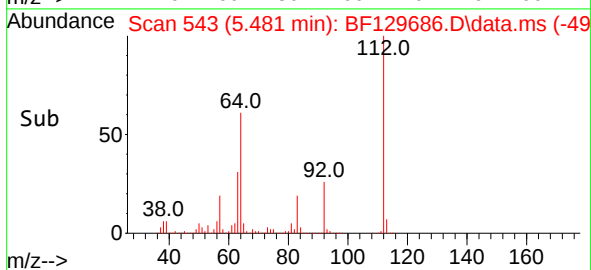
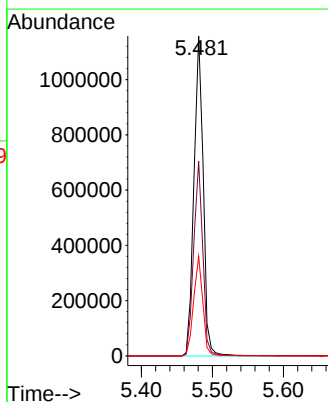
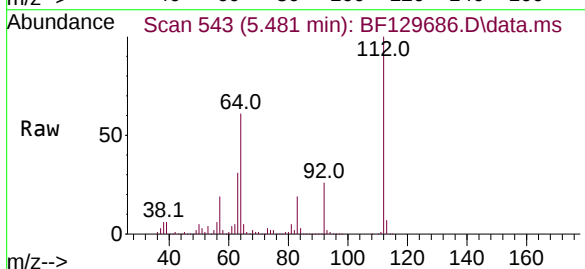
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#5  
2-Fluorophenol  
Concen: 100.704 ng  
RT: 5.481 min Scan# 543  
Delta R.T. -0.000 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

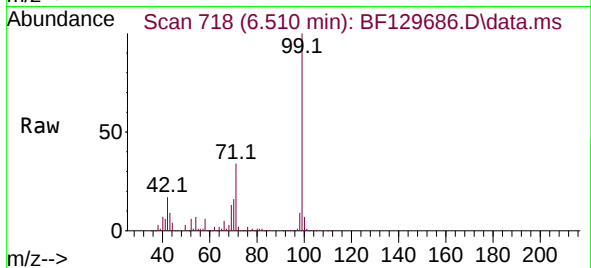
Tgt Ion:112 Resp: 1056618  
Ion Ratio Lower Upper  
112 100  
64 60.8 53.3 79.9  
63 31.1 28.0 42.0





#7  
Phenol-d6  
Concen: 97.272 ng  
RT: 6.510 min Scan# 719  
Delta R.T. 0.006 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

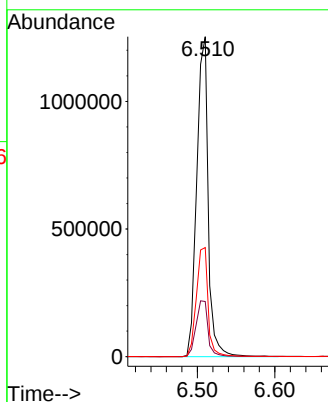
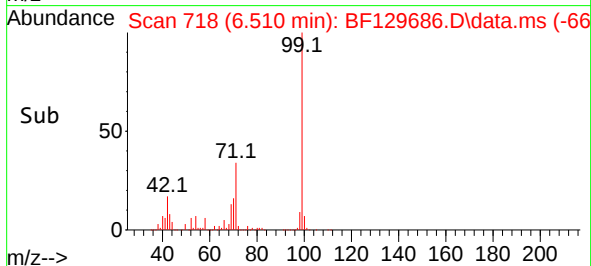
Instrument :  
BNA\_F  
ClientSampleId :  
BU-02-080522RE



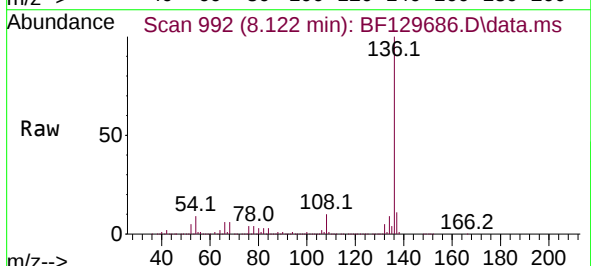
Tgt Ion: 99 Resp: 1282834  
Ion Ratio Lower Upper  
99 100  
42 17.2 17.3 25.9  
71 34.1 28.9 43.3

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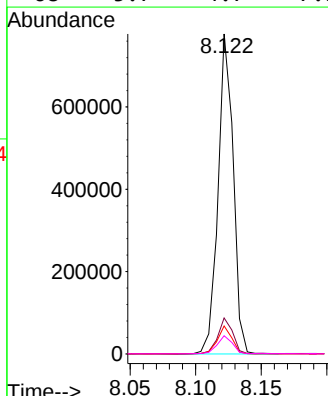
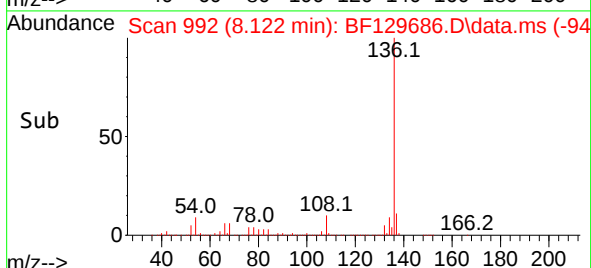
Reviewed By :Christian Giraldo 08/10/2022  
Supervised By :Jagrut Upadhyay 08/10/2022

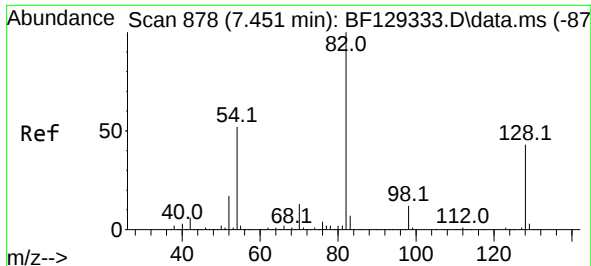


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.122 min Scan# 992  
Delta R.T. -0.012 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12



Tgt Ion:136 Resp: 627744  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.8 13.2  
54 8.7 7.5 11.3  
68 5.7 4.7 7.1





#23

Nitrobenzene-d5

Concen: 69.324 ng

RT: 7.410 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF129686.D

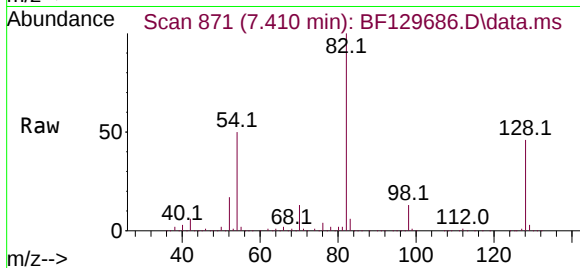
Acq: 10 Aug 2022 02:12

Instrument :

BNA\_F

ClientSampleId :

BU-02-080522RE

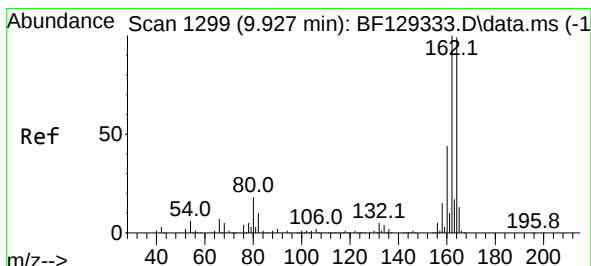
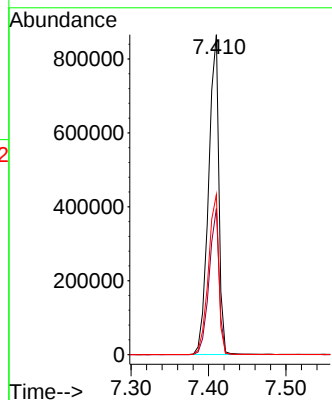
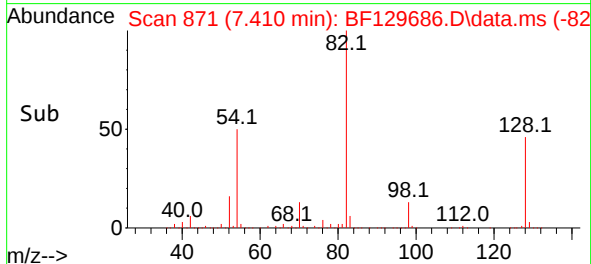


|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 797193 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 45.6  | 34.0  | 51.0   |
| 54        | 50.0  | 46.9  | 70.3   |

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

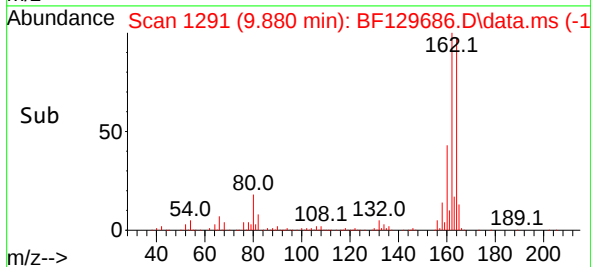
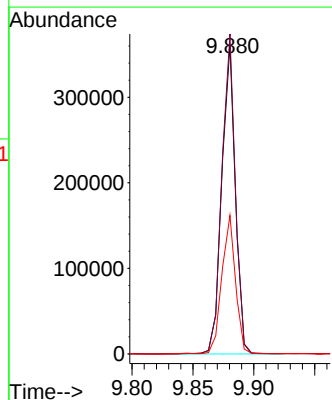
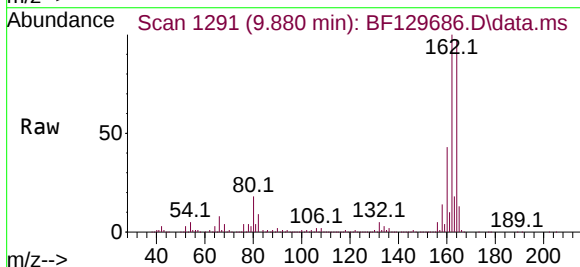
RT: 9.880 min Scan# 1291

Delta R.T. -0.012 min

Lab File: BF129686.D

Acq: 10 Aug 2022 02:12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 279522 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 103.6 | 79.5  | 119.3  |
| 160       | 44.8  | 34.2  | 51.4   |





#42  
2,4,6-Tribromophenol  
Concen: 87.647 ng  
RT: 10.674 min Scan# 1434  
Delta R.T. -0.012 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

Instrument :

BNA\_F

ClientSampleId :

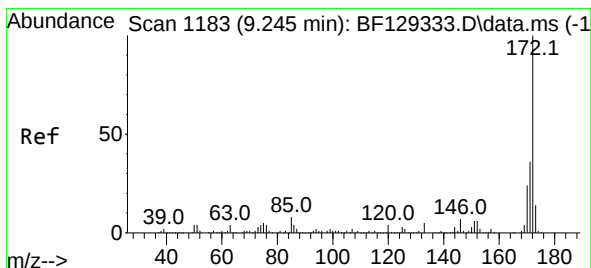
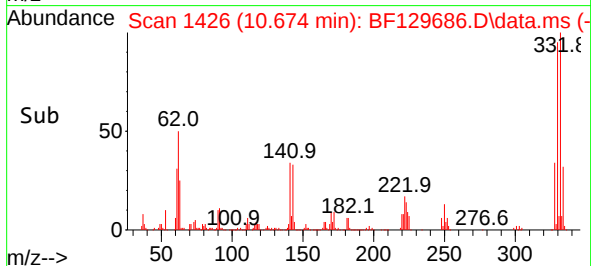
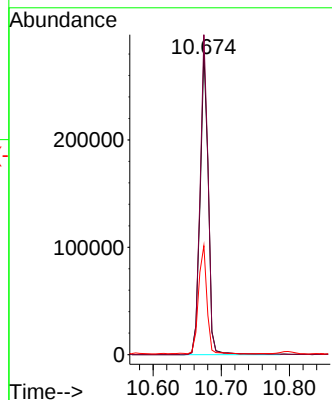
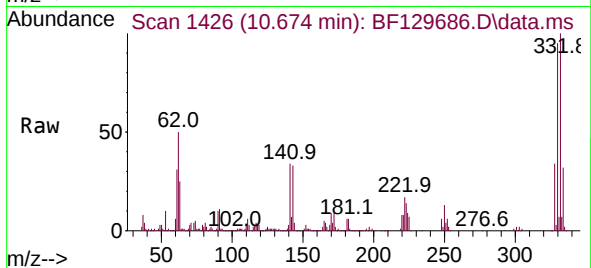
BU-02-080522RE

Tgt Ion:330 Resp: 235543  
Ion Ratio Lower Upper  
330 100  
332 103.7 76.8 115.2  
141 36.6 28.0 42.0

Manual Integrations

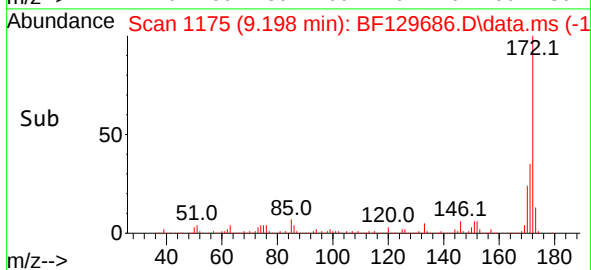
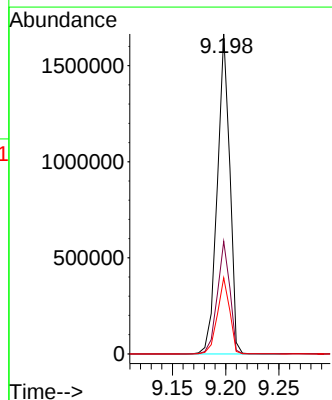
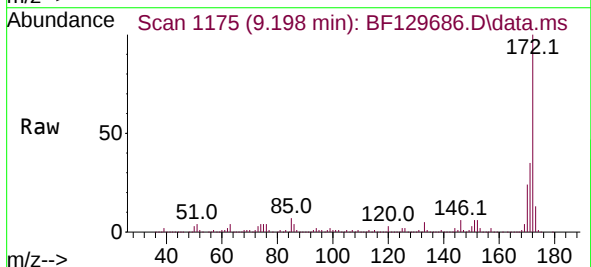
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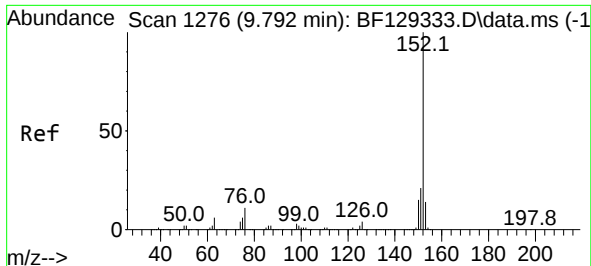
Reviewed By :Christian Giraldo 08/10/2022  
Supervised By :Jagrut Upadhyay 08/10/2022



#45  
2-Fluorobiphenyl  
Concen: 75.007 ng  
RT: 9.198 min Scan# 1175  
Delta R.T. -0.012 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

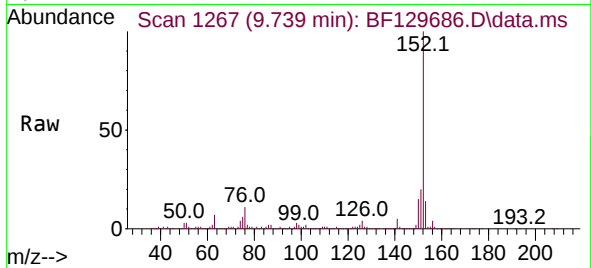
Tgt Ion:172 Resp: 1355318  
Ion Ratio Lower Upper  
172 100  
171 35.2 28.8 43.2  
170 23.8 19.8 29.8





#49  
Acenaphthylene  
Concen: 7.955 ng  
RT: 9.739 min Scan# 1384  
Delta R.T. -0.018 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

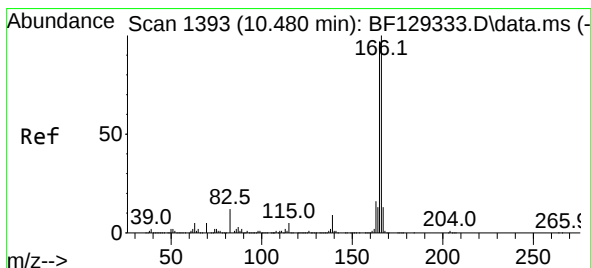
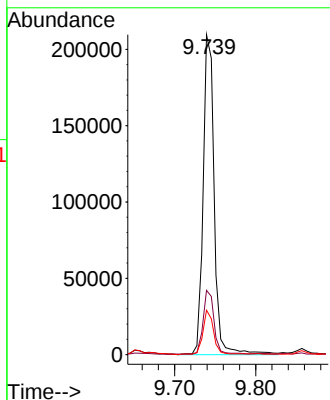
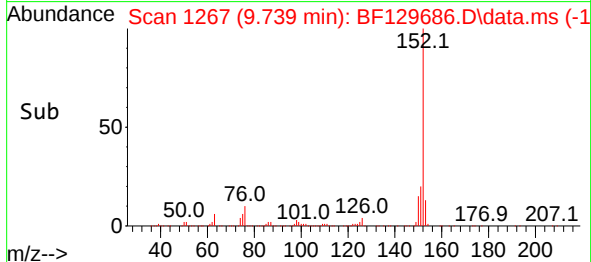
Instrument :  
BNA\_F  
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BU-02-080522RE



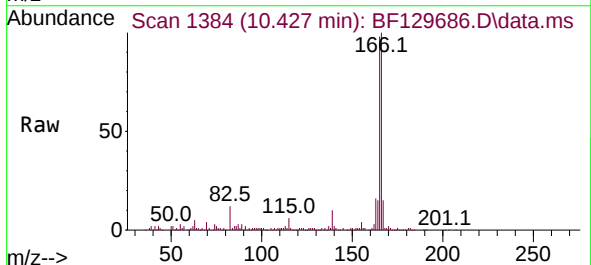
Tgt Ion:152 Resp: 199329  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.2 24.4  
153 13.9 10.7 16.1

Manual Integrations  
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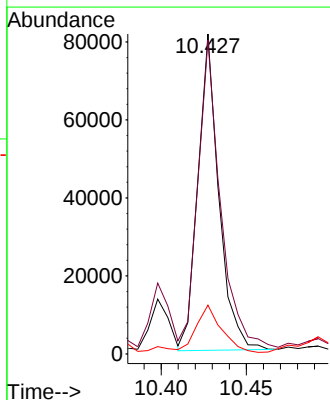
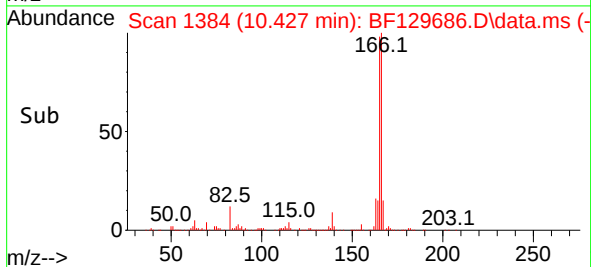
Reviewed By :Christian Giraldo 08/10/2022  
Supervised By :Jagrut Upadhyay 08/10/2022

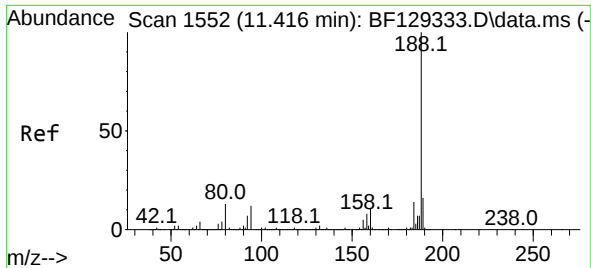


#58  
Fluorene  
Concen: 3.843 ng  
RT: 10.427 min Scan# 1384  
Delta R.T. -0.018 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12



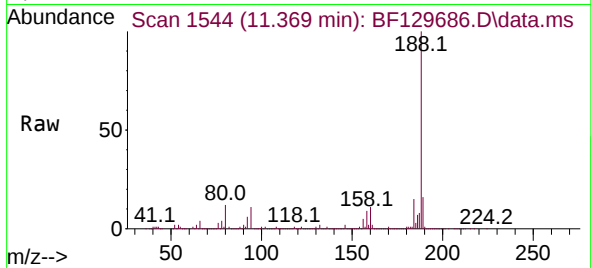
Tgt Ion:166 Resp: 69379  
Ion Ratio Lower Upper  
166 100  
165 98.0 78.1 117.1  
167 15.2 10.5 15.7





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.369 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

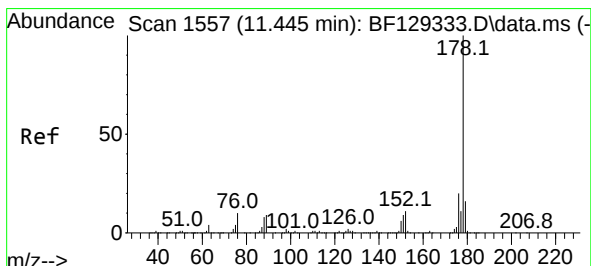
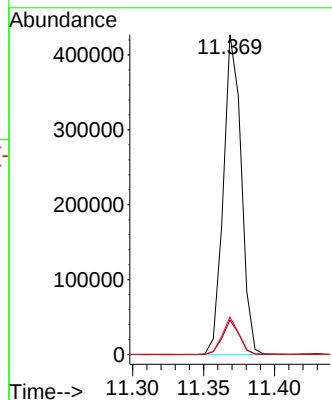
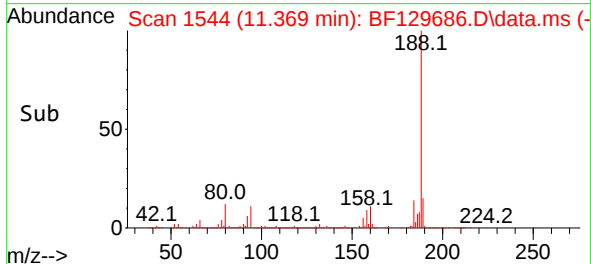
Instrument :  
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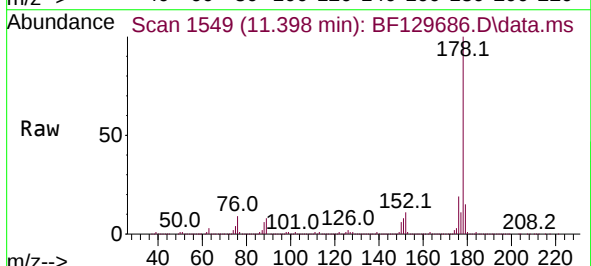
Tgt Ion:188 Resp: 374159  
Ion Ratio Lower Upper  
188 100  
94 10.8 7.0 10.6  
80 11.7 7.6 11.4

Manual Integrations  
APPROVED

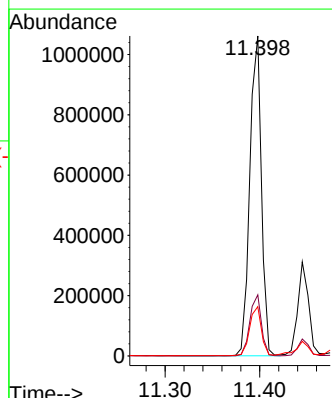
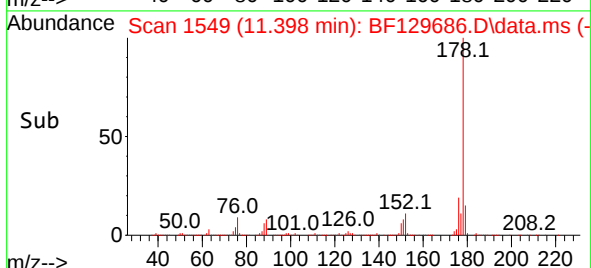
Reviewed By :Christian Giraldo 08/10/2022  
Supervised By :Jagrut Upadhyay 08/10/2022

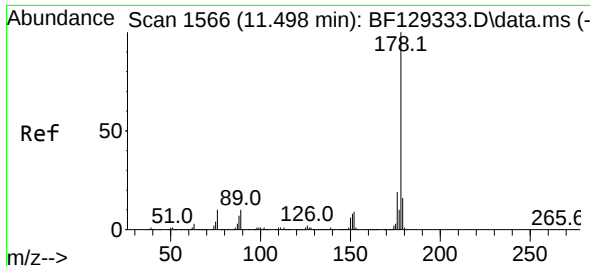


#71  
Phenanthrene  
Concen: 44.101 ng  
RT: 11.398 min Scan# 1549  
Delta R.T. -0.012 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12



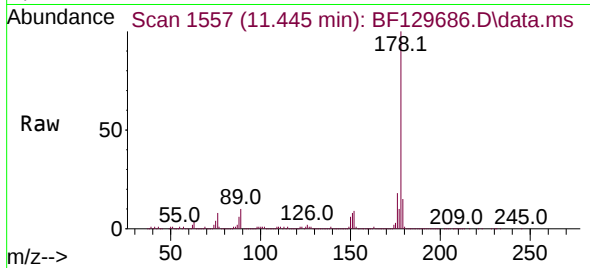
Tgt Ion:178 Resp: 900729  
Ion Ratio Lower Upper  
178 100  
176 19.1 16.0 24.0  
179 15.4 12.6 19.0





#72  
 Anthracene  
 Concen: 12.087 ng  
 RT: 11.445 min Scan# 11  
 Delta R.T. -0.018 min  
 Lab File: BF129686.D  
 Acq: 10 Aug 2022 02:12

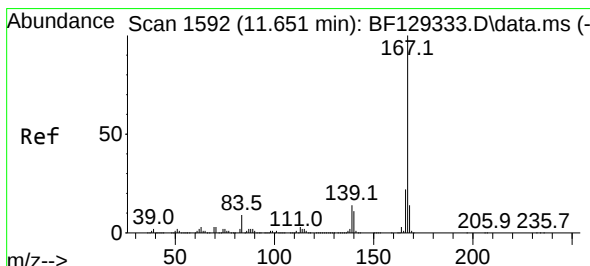
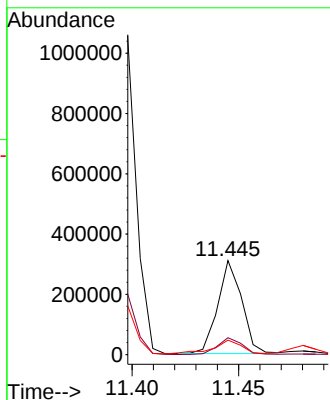
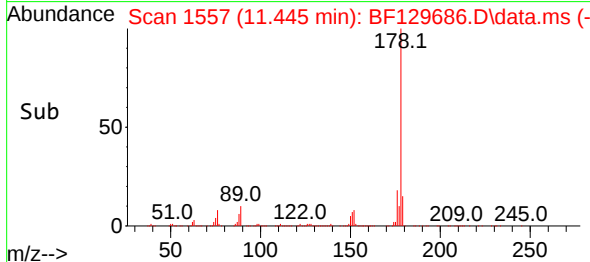
Instrument :  
 BNA\_F  
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 BU-02-080522RE



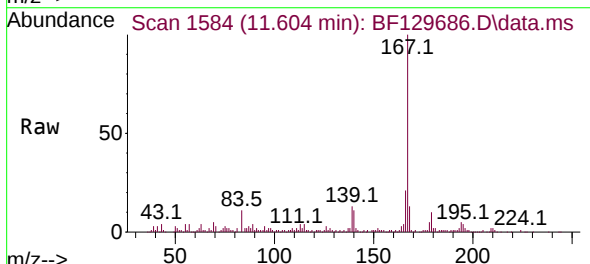
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 Ion Ratio Lower Upper  
 178 100  
 176 17.9 15.4 23.2  
 179 15.4 12.6 19.0

Manual Integrations  
 APPROVED

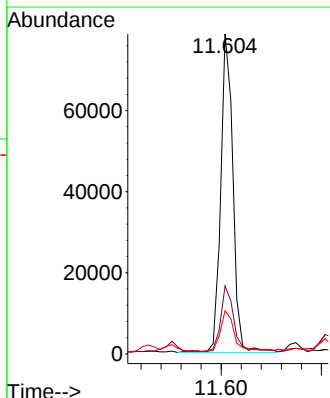
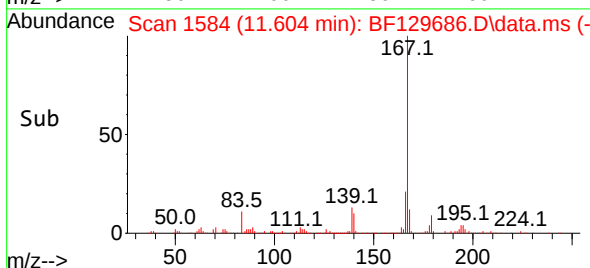
Reviewed By :Christian Giraldo 08/10/2022  
 Supervised By :Jagrut Upadhyay 08/10/2022

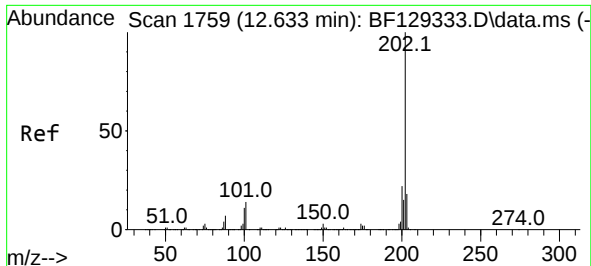


#73  
 Carbazole  
 Concen: 3.538 ng  
 RT: 11.604 min Scan# 1584  
 Delta R.T. -0.012 min  
 Lab File: BF129686.D  
 Acq: 10 Aug 2022 02:12



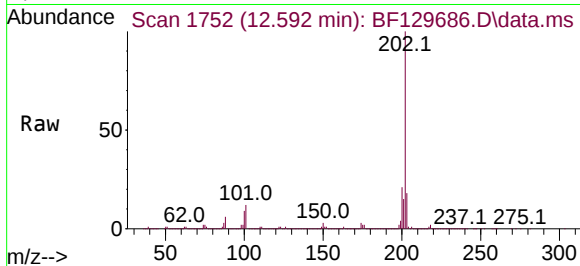
Tgt Ion:167 Resp: 66842  
 Ion Ratio Lower Upper  
 167 100  
 166 21.2 17.7 26.5  
 139 13.5 11.2 16.8





#75  
Fluoranthene  
Concen: 54.157 ng  
RT: 12.592 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

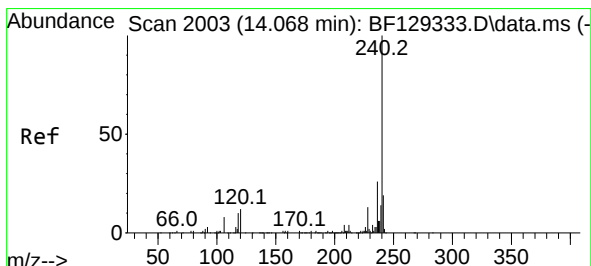
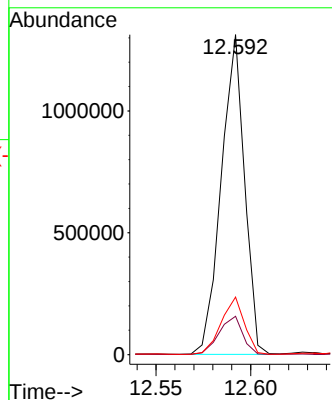
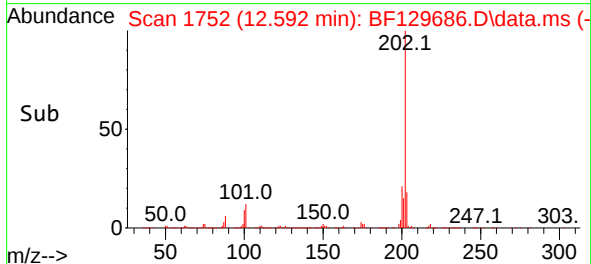
Instrument :  
BNA\_F  
ClientSampleId :  
BU-02-080522RE



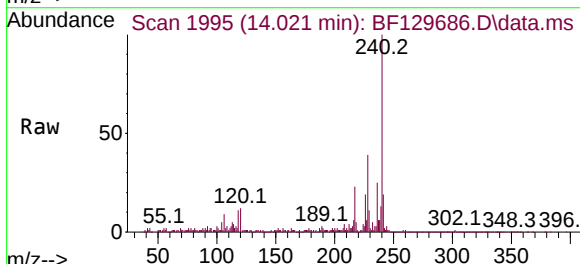
Tgt Ion:202 Resp: 112075  
Ion Ratio Lower Upper  
202 100  
101 12.0 0.0 31.4  
203 18.0 0.0 38.0

Manual Integrations  
APPROVED

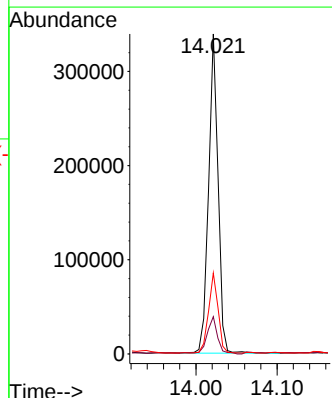
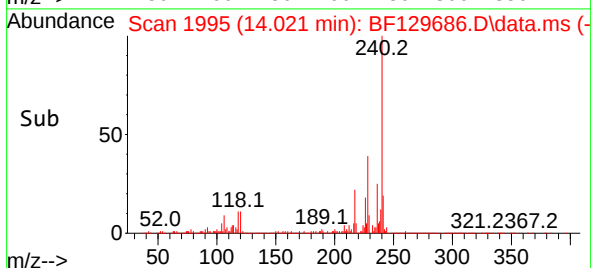
Reviewed By :Christian Giraldo 08/10/2022  
Supervised By :Jagrut Upadhyay 08/10/2022

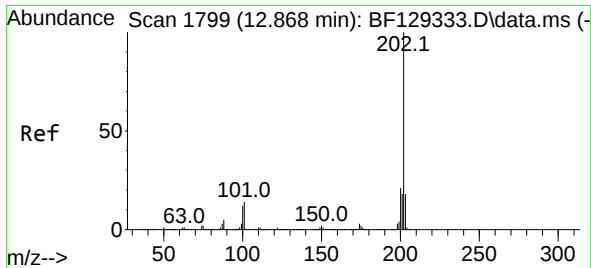


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.021 min Scan# 1995  
Delta R.T. -0.006 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12



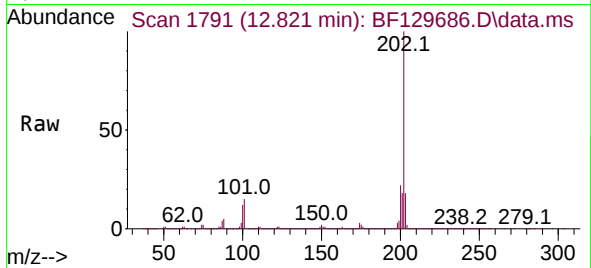
Tgt Ion:240 Resp: 276544  
Ion Ratio Lower Upper  
240 100  
120 11.6 8.9 13.3  
236 25.3 20.8 31.2





#78  
Pyrene  
Concen: 50.660 ng  
RT: 12.821 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

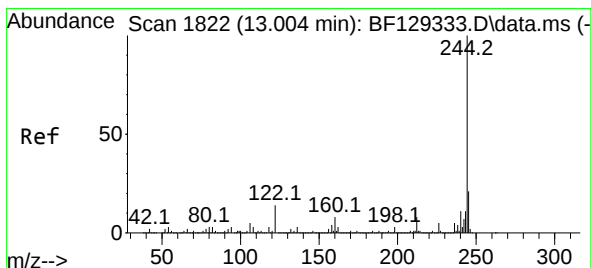
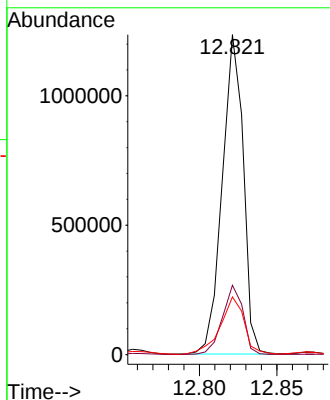
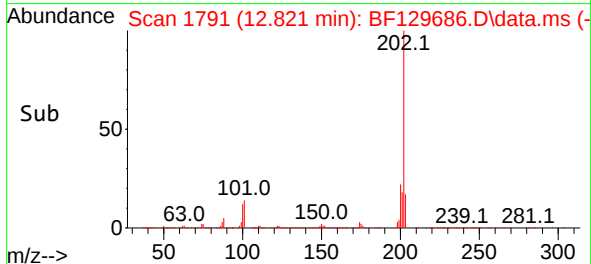
Instrument :  
BNA\_F  
ClientSampleId :  
BU-02-080522RE



Tgt Ion:202 Resp: 1171528  
Ion Ratio Lower Upper  
202 100  
200 21.7 17.7 26.5  
203 18.0 14.6 21.8

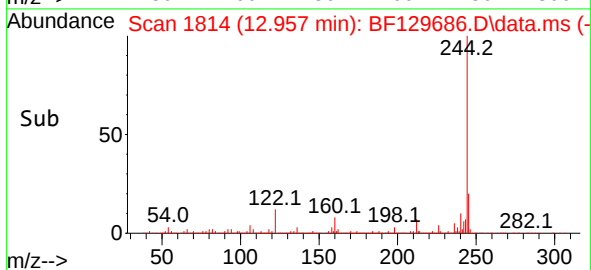
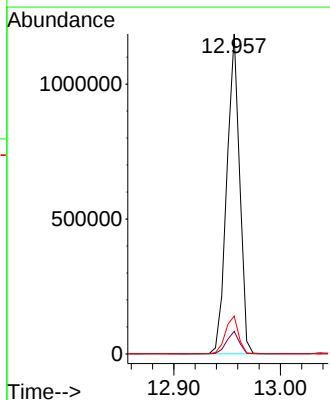
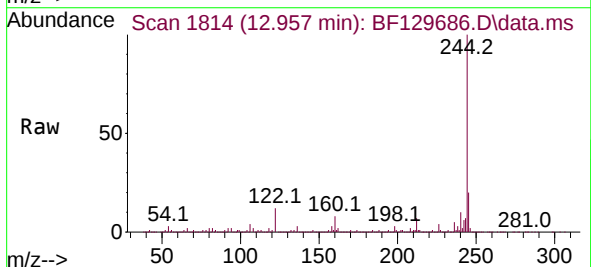
Manual Integrations  
APPROVED

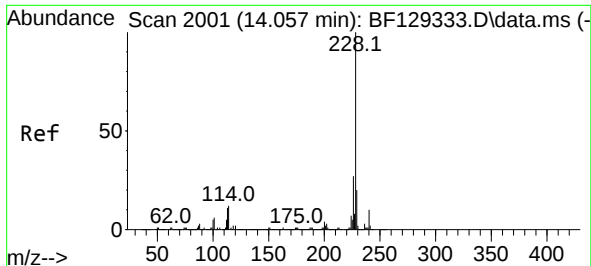
Reviewed By :Christian Giraldo 08/10/2022  
Supervised By :Jagrut Upadhyay 08/10/2022



#79  
Terphenyl-d14  
Concen: 67.907 ng  
RT: 12.957 min Scan# 1814  
Delta R.T. -0.012 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

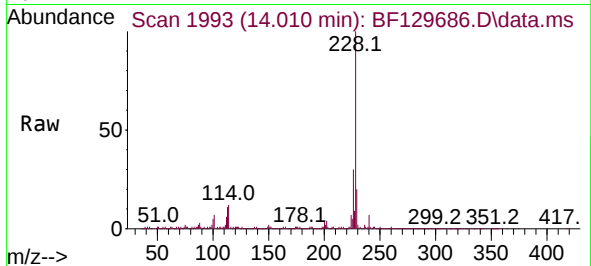
Tgt Ion:244 Resp: 995407  
Ion Ratio Lower Upper  
244 100  
212 7.0 6.1 9.1  
122 11.8 8.8 13.2





#81  
Benzo(a)anthracene  
Concen: 30.851 ng  
RT: 14.010 min Scan# 19  
Delta R.T. -0.006 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

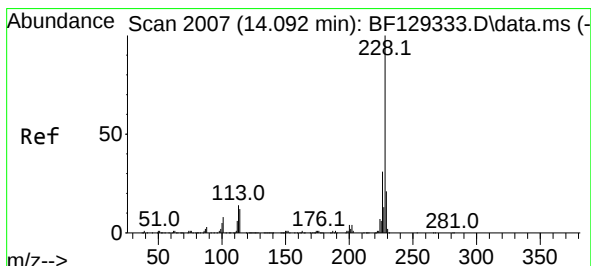
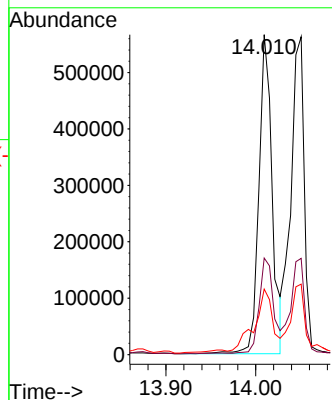
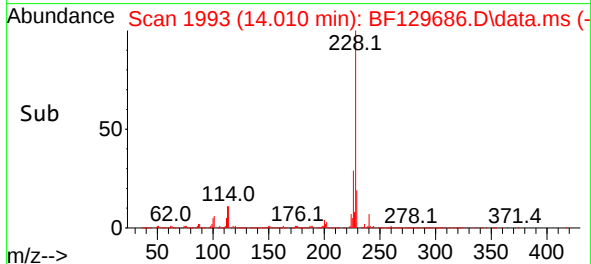
Instrument :  
BNA\_F  
ClientSampleId :  
BU-02-080522RE



Tgt Ion:228 Resp: 582786  
Ion Ratio Lower Upper  
228 100  
226 30.2 22.1 33.1  
229 20.5 15.8 23.8

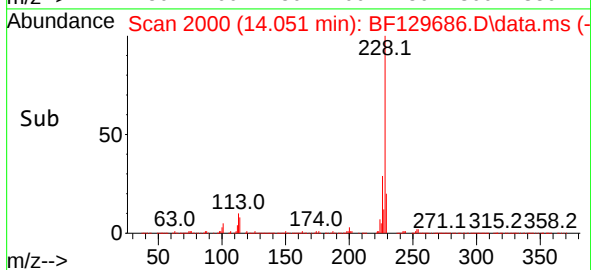
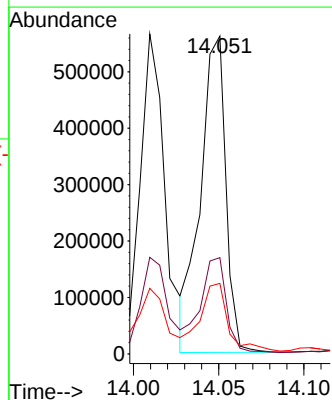
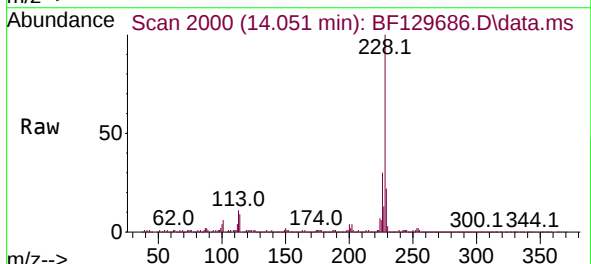
Manual Integrations  
APPROVED

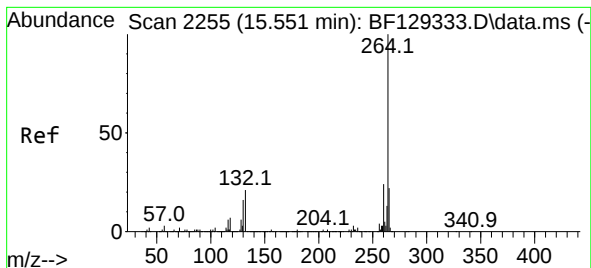
Reviewed By :Christian Giraldo 08/10/2022  
Supervised By :Jagrut Upadhyay 08/10/2022



#83  
Chrysene  
Concen: 32.668 ng  
RT: 14.051 min Scan# 2000  
Delta R.T. -0.006 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

Tgt Ion:228 Resp: 581604  
Ion Ratio Lower Upper  
228 100  
226 30.3 24.3 36.5  
229 22.2 15.9 23.9





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.498 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

Instrument :

BNA\_F

ClientSampleId :

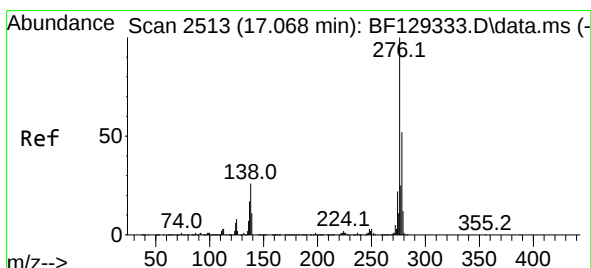
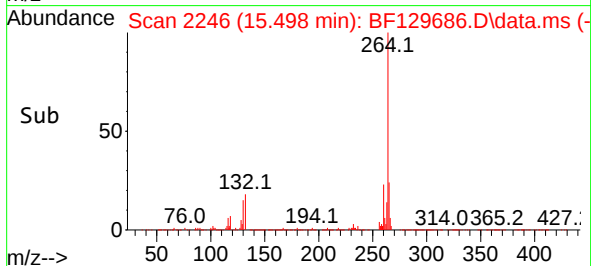
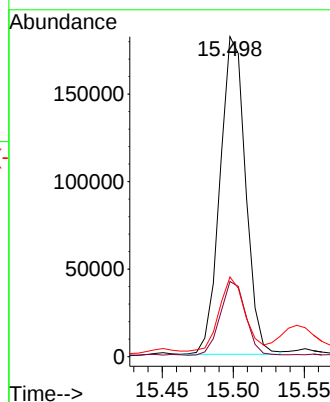
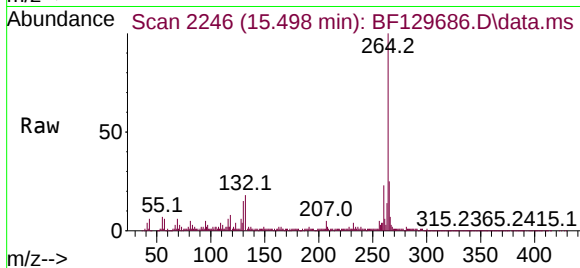
BU-02-080522RE

Tgt Ion:264 Resp: 227670  
Ion Ratio Lower Upper  
264 100  
260 23.5 18.4 27.6  
265 24.9 17.2 25.8

Manual Integrations

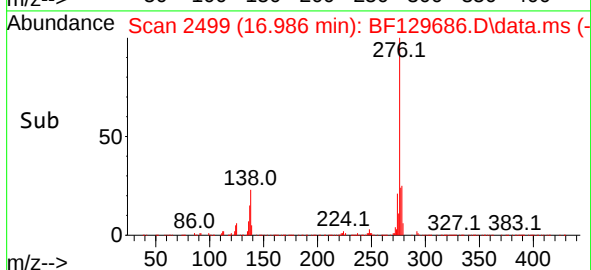
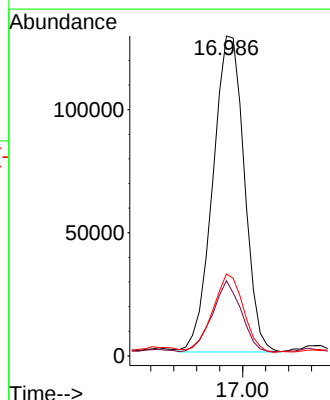
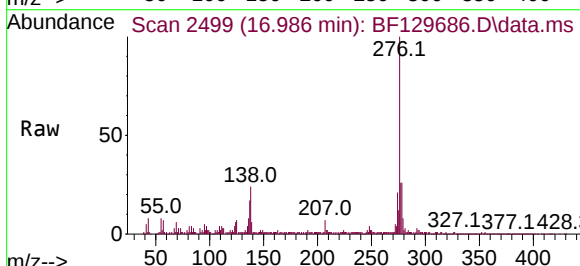
APPROVED

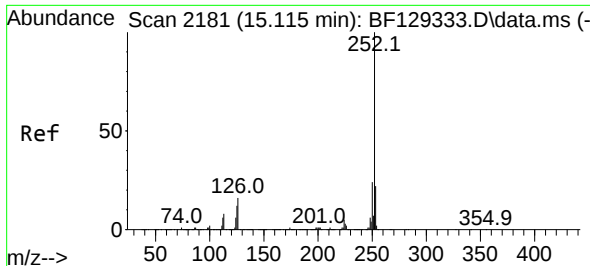
Reviewed By :Christian Giraldo 08/10/2022  
Supervised By :Jagrut Upadhyay 08/10/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 15.910 ng m  
RT: 16.986 min Scan# 2499  
Delta R.T. -0.012 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

Tgt Ion:276 Resp: 243922  
Ion Ratio Lower Upper  
276 100  
138 0.8 21.1 31.7#  
277 1.0 20.3 30.5#





#88  
Benzo(b)fluoranthene  
Concen: 41.816 ng m  
RT: 15.068 min Scan# 2173  
Delta R.T. -0.000 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

Instrument :

BNF

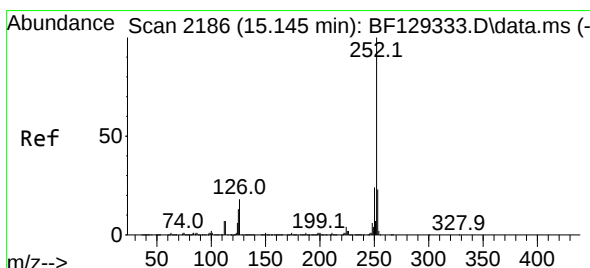
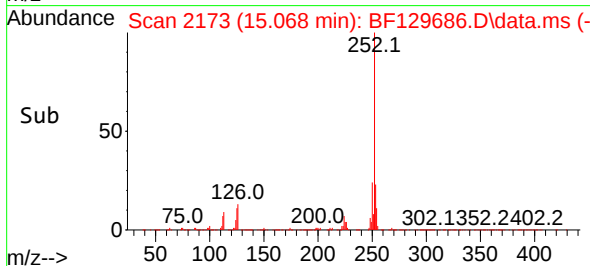
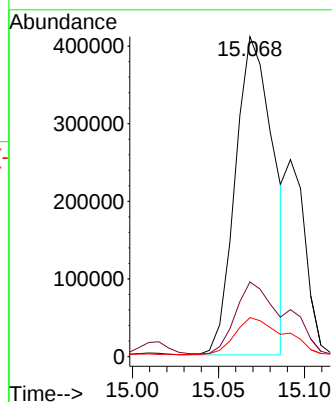
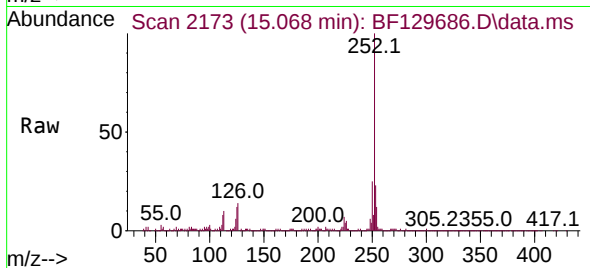
ClientSampleId :

BU-02-080522RE

Tgt Ion:252 Resp: 631504  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.7 26.5  
125 12.2 8.0 12.0

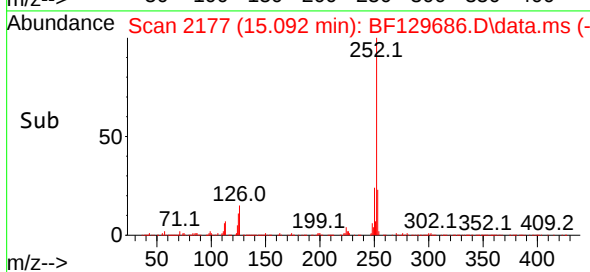
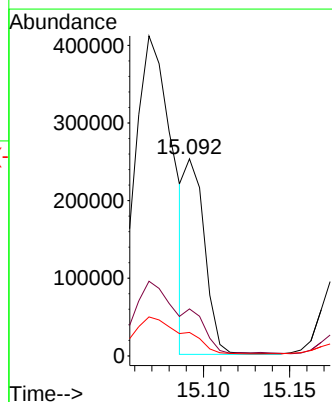
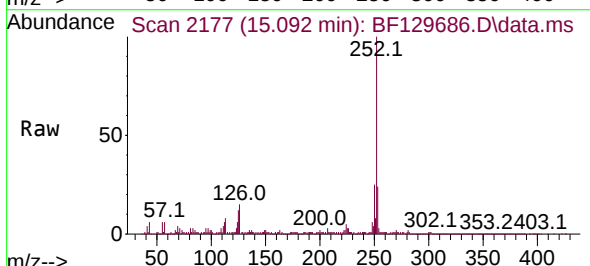
Manual Integrations  
APPROVED

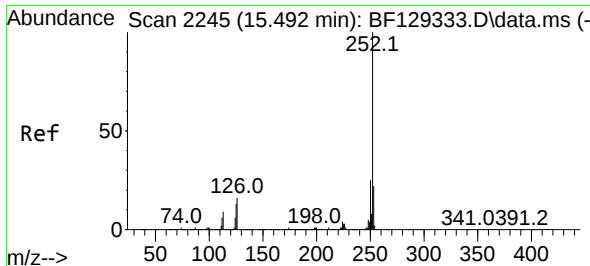
Reviewed By :Christian Giraldo 08/10/2022  
Supervised By :Jagrut Upadhyay 08/10/2022



#89  
Benzo(k)fluoranthene  
Concen: 13.444 ng m  
RT: 15.092 min Scan# 2177  
Delta R.T. -0.012 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

Tgt Ion:252 Resp: 198967  
Ion Ratio Lower Upper  
252 100  
253 23.8 17.8 26.6  
125 11.9 8.3 12.5





#90  
Benzo(a)pyrene  
Concen: 36.187 ng  
RT: 15.439 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

Instrument :

BNA\_F

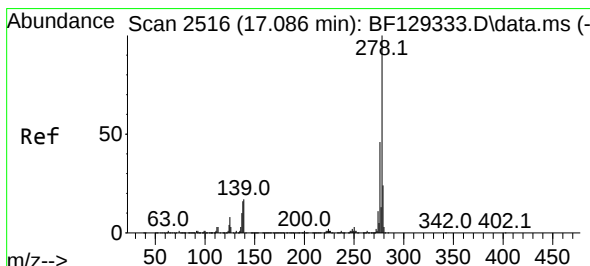
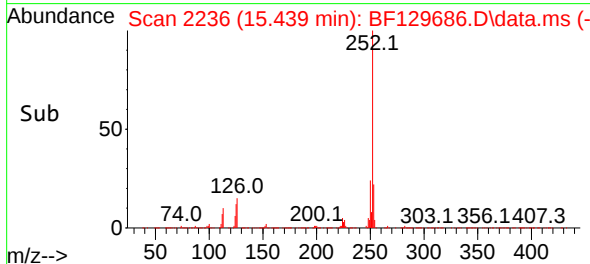
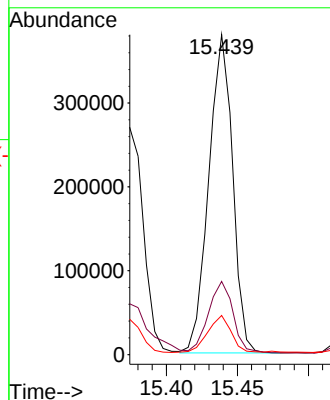
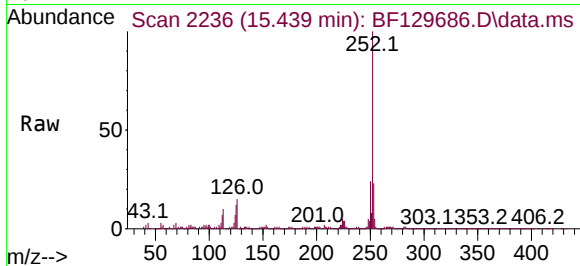
ClientSampleId :

BU-02-080522RE

Tgt Ion:252 Resp: 443639  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.0 25.6  
125 12.2 8.8 13.2

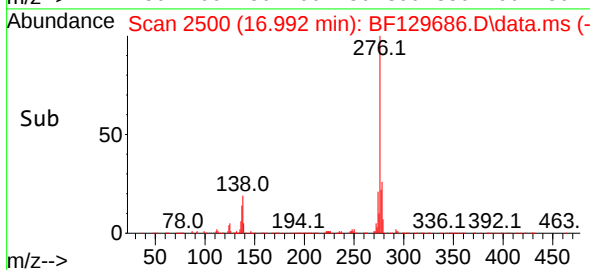
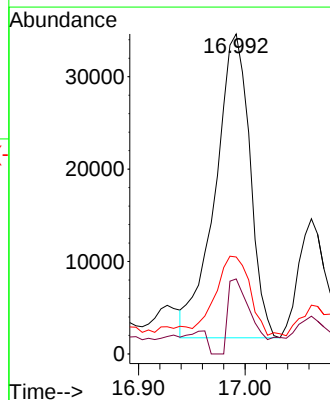
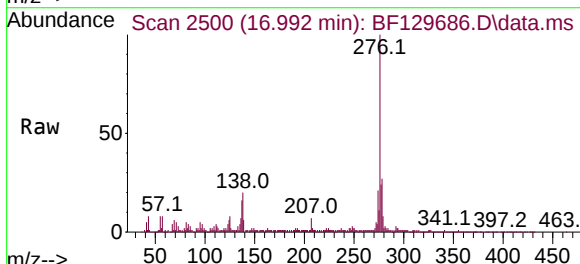
Manual Integrations  
APPROVED

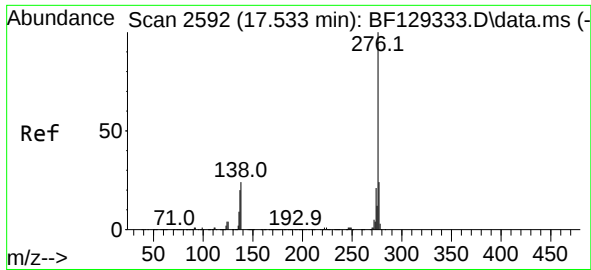
Reviewed By :Christian Giraldo 08/10/2022  
Supervised By :Jagrut Upadhyay 08/10/2022



#91  
Dibenzo(a,h)anthracene  
Concen: 5.973 ng  
RT: 16.992 min Scan# 2500  
Delta R.T. -0.018 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

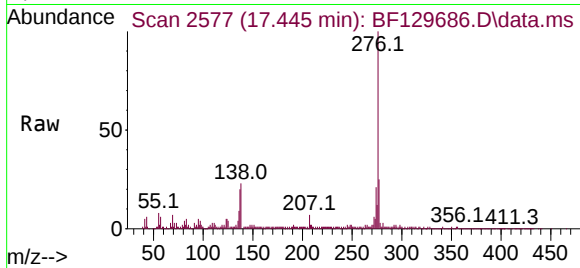
Tgt Ion:278 Resp: 74535  
Ion Ratio Lower Upper  
278 100  
139 23.4 12.8 19.2#  
279 30.3 18.6 28.0#





#92  
Benzo(g,h,i)perylene  
Concen: 19.210 ng  
RT: 17.445 min Scan# 2577  
Delta R.T. -0.006 min  
Lab File: BF129686.D  
Acq: 10 Aug 2022 02:12

Instrument :  
BNA\_F  
ClientSampleId :  
BU-02-080522RE



Tgt Ion:276 Resp: 244940  
Ion Ratio Lower Upper  
276 100  
277 24.8 19.1 28.7  
138 22.5 18.0 27.0

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 08/10/2022  
Supervised By :Jagrut Upadhyay 08/10/2022

