

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF030822\  
 Data File : BF127268.D  
 Acq On : 08 Mar 2022 19:57  
 Operator : CG\JU  
 Sample : N1829-03 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-030722

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 03/09/2022  
 Supervised By : Jagrut Upadhyay 03/09/2022

Quant Time: Mar 09 01:20:02 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF021622.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Mar 05 02:16:58 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.881  | 152  | 90694    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.163  | 136  | 323413   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.922  | 164  | 145124   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.416 | 188  | 225775   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12            | 14.062 | 240  | 146555   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12            | 15.562 | 264  | 109563   | 20.000 | ng    | 0.02     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.498  | 112  | 86068    | 14.667 | ng    | 0.00     |
| 7) Phenol-d6                | 6.510  | 99   | 99787    | 12.603 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.439  | 82   | 65085    | 9.084  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.716 | 330  | 20741    | 12.413 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.233  | 172  | 109573   | 11.115 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.998 | 244  | 102248   | 10.256 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 52) Acenaphthene            | 9.951  | 154  | 26757    | 2.971  | ng    | 98       |
| 55) Dibenzofuran            | 10.127 | 168  | 28031    | 2.263  | ng    | 92       |
| 58) Fluorene                | 10.469 | 166  | 36576    | 3.791  | ng    | 98       |
| 71) Phenanthrene            | 11.439 | 178  | 351501   | 27.815 | ng    | 99       |
| 72) Anthracene              | 11.492 | 178  | 115751   | 9.201  | ng    | 98       |
| 75) Fluoranthene            | 12.633 | 202  | 559290   | 46.612 | ng    | 95       |
| 78) Pyrene                  | 12.868 | 202  | 505954   | 39.737 | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.051 | 228  | 227820   | 23.058 | ng    | 98       |
| 83) Chrysene                | 14.092 | 228  | 192970   | 20.769 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.074 | 276  | 79744    | 11.100 | ng    | # 82     |
| 88) Benzo(b)fluoranthene    | 15.115 | 252  | 213086m  | 28.957 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.145 | 252  | 52625m   | 7.414  | ng    |          |
| 90) Benzo(a)pyrene          | 15.498 | 252  | 145638m  | 25.338 | ng    |          |
| 91) Dibenzo(a,h)anthracene  | 17.080 | 278  | 19813    | 3.335  | ng    | # 87     |
| 92) Benzo(g,h,i)perylene    | 17.539 | 276  | 75627    | 12.911 | ng    | # 82     |
| -----                       |        |      |          |        |       |          |

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

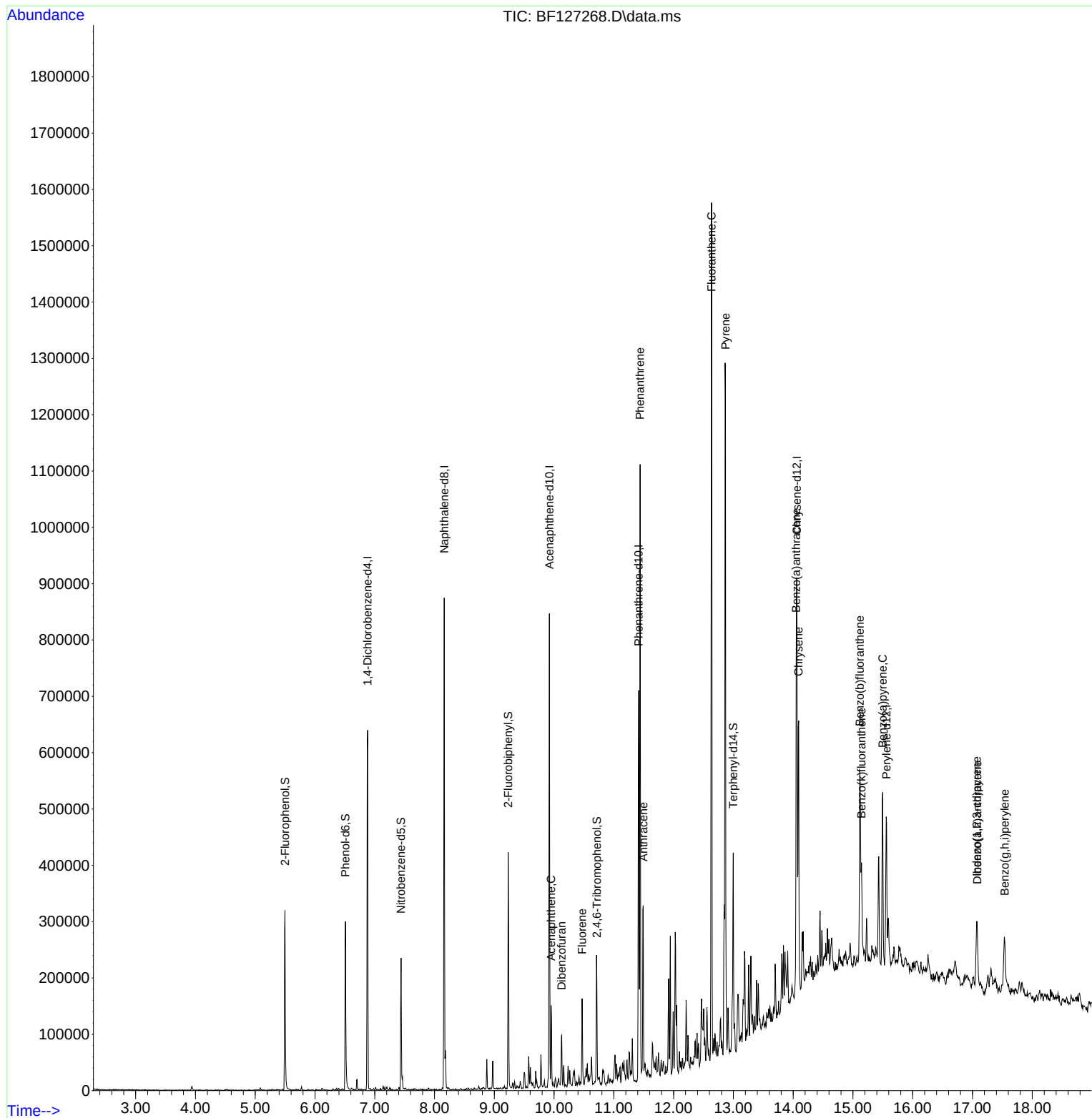
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF030822\  
Data File : BF127268.D  
Acq On : 08 Mar 2022 19:57  
Operator : CG\JU  
Sample : N1829-03 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

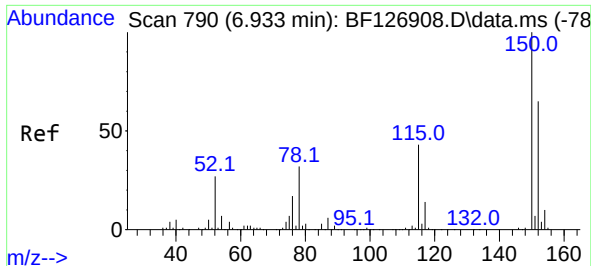
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-030722

Quant Time: Mar 09 01:20:02 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF021622.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Mar 05 02:16:58 2022  
Response via : Initial Calibration

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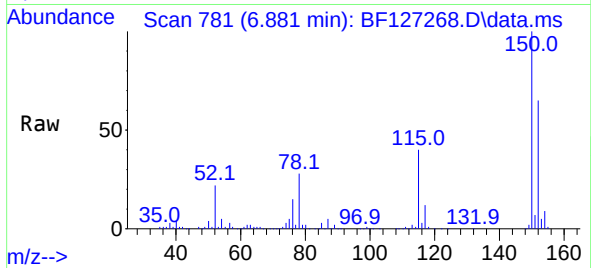
Reviewed By :Christian Giraldo 03/09/2022  
Supervised By :Jagrut Upadhyay 03/09/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.881 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

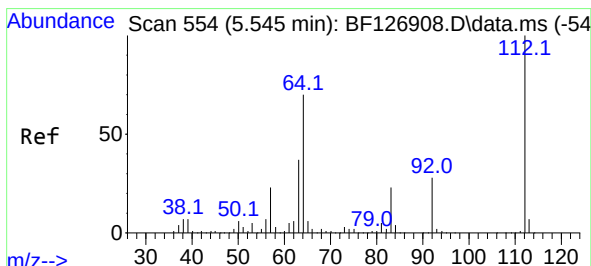
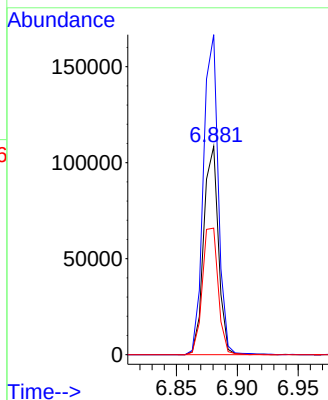
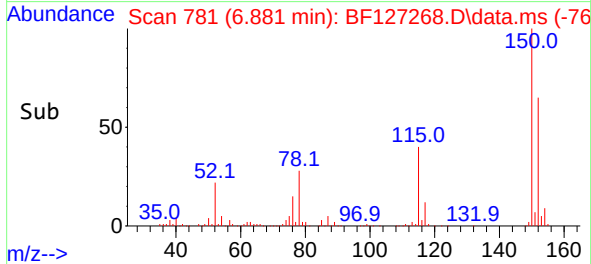
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-030722



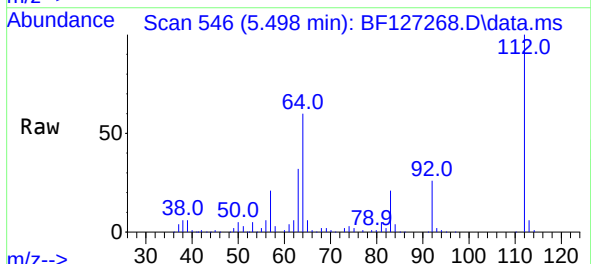
Tgt Ion:152 Resp: 90694  
Ion Ratio Lower Upper  
152 100  
150 153.6 128.1 192.1  
115 60.8 56.7 85.1

Manual Integrations  
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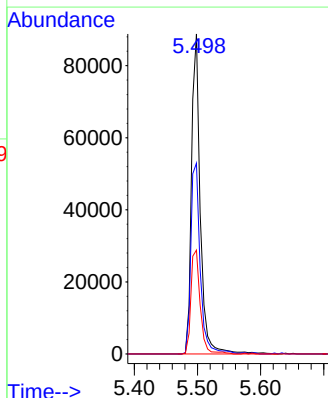
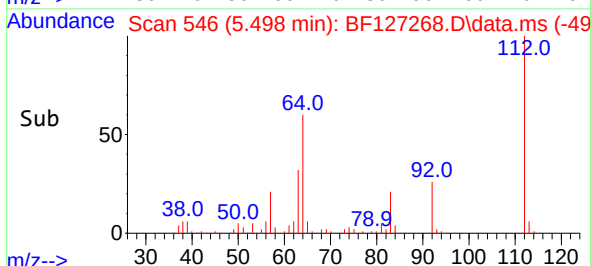
Reviewed By :Christian Giraldo 03/09/2022  
Supervised By :Jagrut Upadhyay 03/09/2022

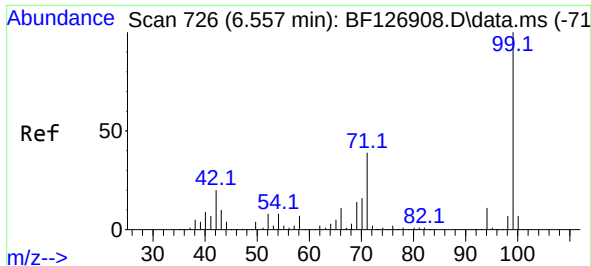


#5  
2-Fluorophenol  
Concen: 14.667 ng  
RT: 5.498 min Scan# 546  
Delta R.T. -0.000 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57



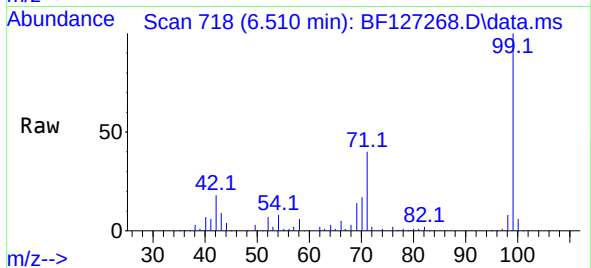
Tgt Ion:112 Resp: 86068  
Ion Ratio Lower Upper  
112 100  
64 59.6 49.5 74.3  
63 32.4 23.9 35.9





#7  
Phenol-d6  
Concen: 12.603 ng  
RT: 6.510 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

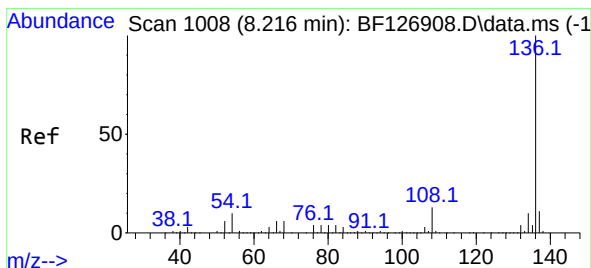
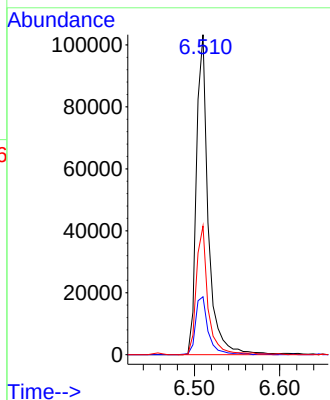
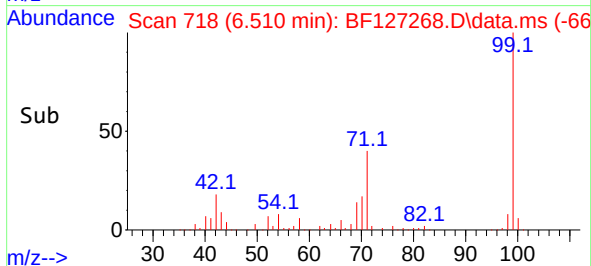
Instrument :  
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SU-04-030722



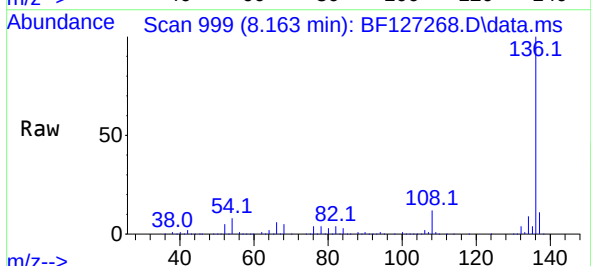
Tgt Ion: 99 Resp: 9978  
Ion Ratio Lower Upper  
99 100  
42 18.1 14.2 21.4  
71 40.2 24.3 36.5

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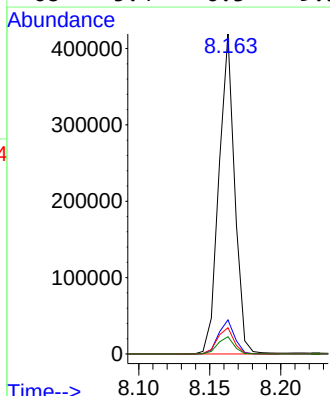
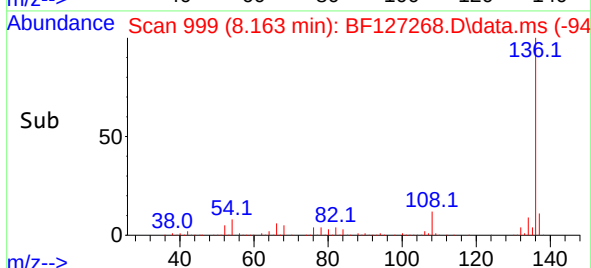
Reviewed By :Christian Giraldo 03/09/2022  
Supervised By :Jagrut Upadhyay 03/09/2022

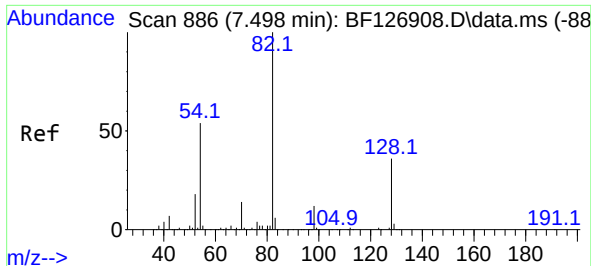


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.163 min Scan# 999  
Delta R.T. -0.000 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57



Tgt Ion:136 Resp: 323413  
Ion Ratio Lower Upper  
136 100  
137 10.6 8.6 13.0  
54 8.2 7.8 11.6  
68 5.4 6.3 9.5





#23

Nitrobenzene-d5

Concen: 9.084 ng

RT: 7.439 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF127268.D

Acq: 08 Mar 2022 19:57

Instrument :

BNA\_F

ClientSampleId :

SU-04-030722

Tgt Ion: 82 Resp: 6508

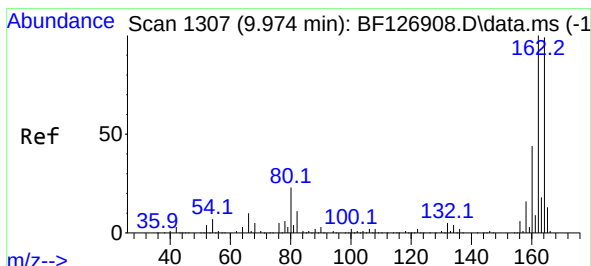
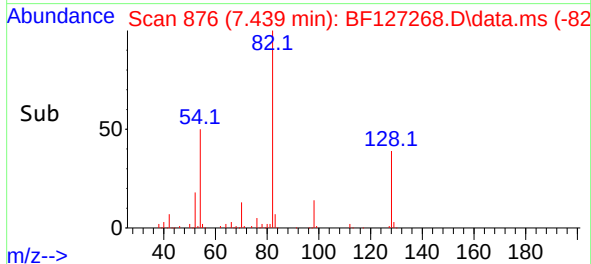
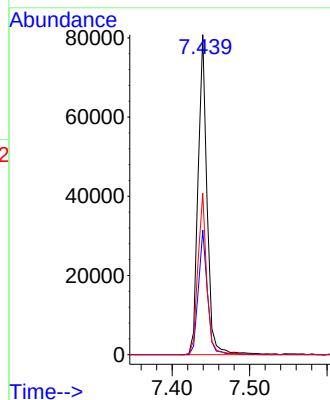
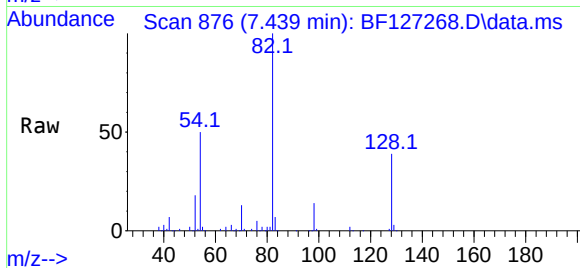
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 38.9  | 32.7  | 49.1  |
| 54  | 50.4  | 41.7  | 62.5  |

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1298

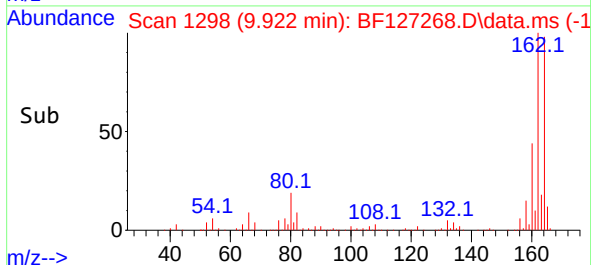
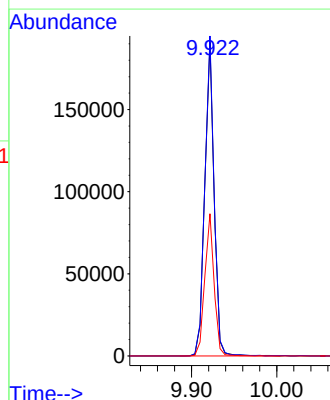
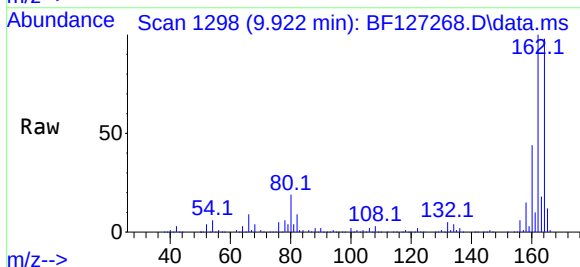
Delta R.T. -0.000 min

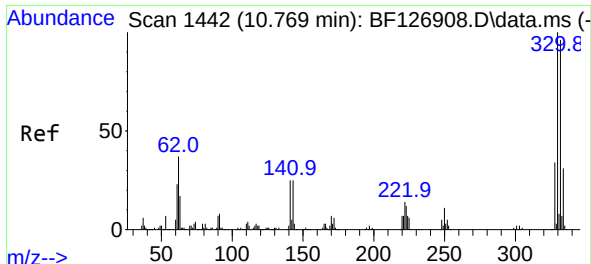
Lab File: BF127268.D

Acq: 08 Mar 2022 19:57

Tgt Ion:164 Resp: 145124

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 102.0 | 81.4  | 122.0 |
| 160 | 45.3  | 36.6  | 54.8  |





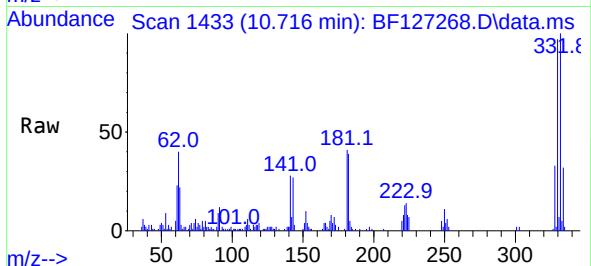
#42  
2,4,6-Tribromophenol  
Concen: 12.413 ng  
RT: 10.716 min Scan# 1442  
Delta R.T. -0.000 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

Instrument :

BNA\_F

ClientSampleId :

SU-04-030722

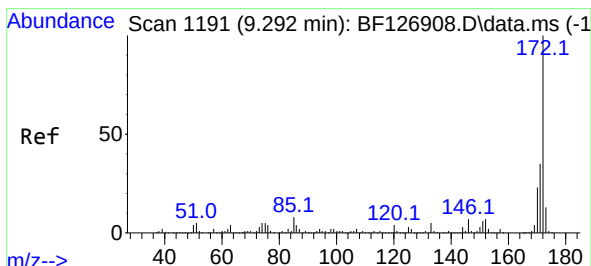
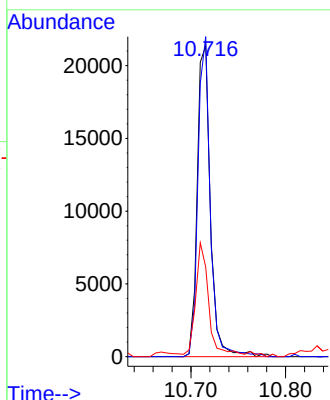
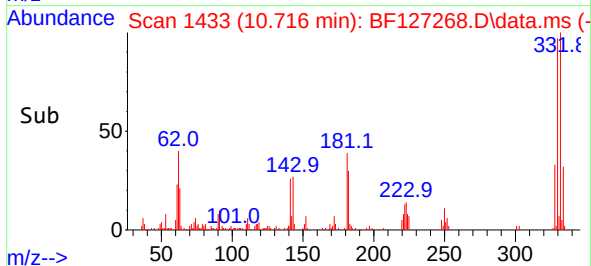


Tgt Ion: 330 Resp: 2074  
Ion Ratio Lower Upper  
330 100  
332 96.3 76.0 114.0  
141 34.3 30.1 45.1

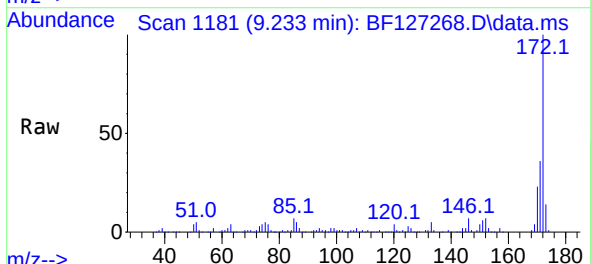
Manual Integrations

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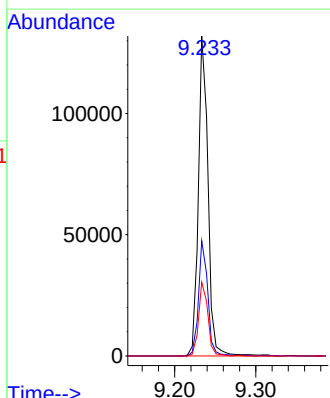
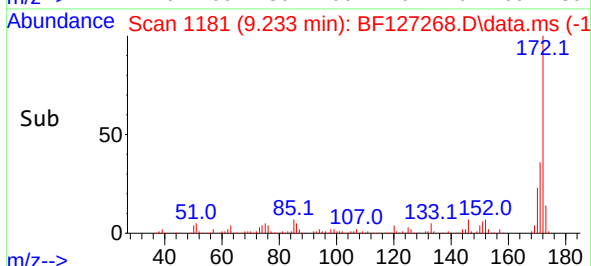
Reviewed By : Christian Giraldo 03/09/2022  
Supervised By : Jagrut Upadhyay 03/09/2022

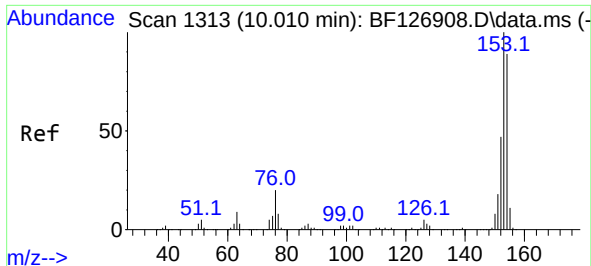


#45  
2-Fluorobiphenyl  
Concen: 11.115 ng  
RT: 9.233 min Scan# 1181  
Delta R.T. -0.006 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57



Tgt Ion: 172 Resp: 109573  
Ion Ratio Lower Upper  
172 100  
171 36.0 28.3 42.5  
170 23.0 19.0 28.6





#52  
Acenaphthene  
Concen: 2.971 ng  
RT: 9.951 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

Instrument :

BNA\_F

ClientSampleId :

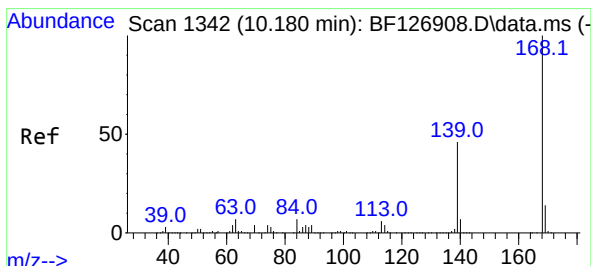
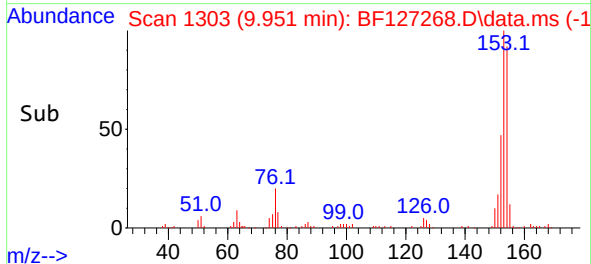
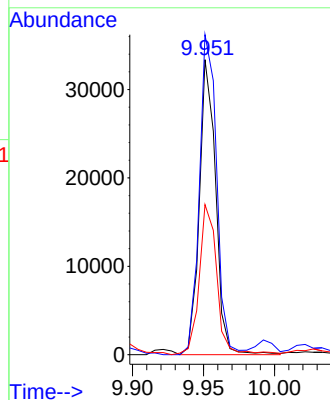
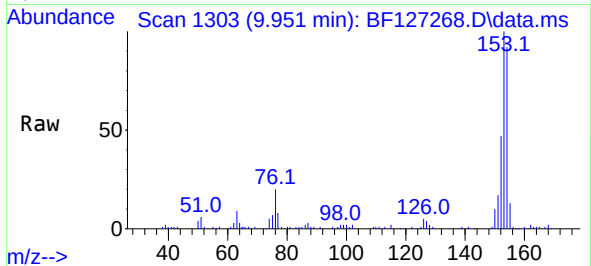
SU-04-030722

Tgt Ion:154 Resp: 2675  
Ion Ratio Lower Upper  
154 100  
153 108.5 87.8 131.6  
152 50.9 39.4 59.2

Manual Integrations

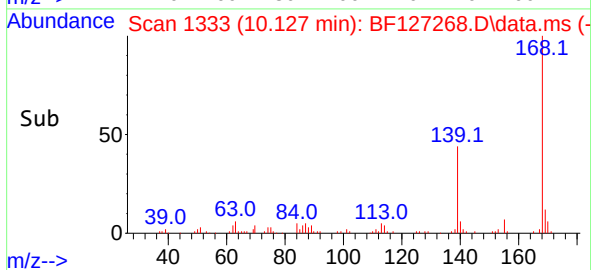
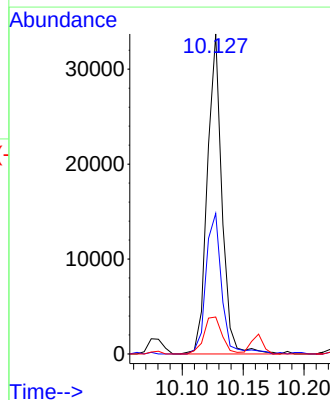
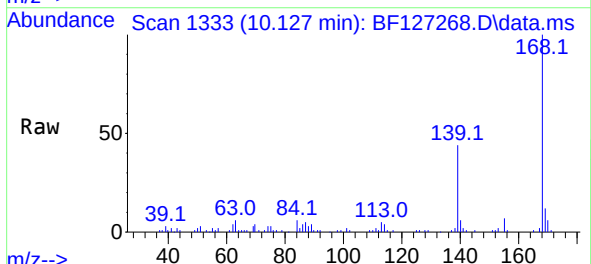
APPROVED

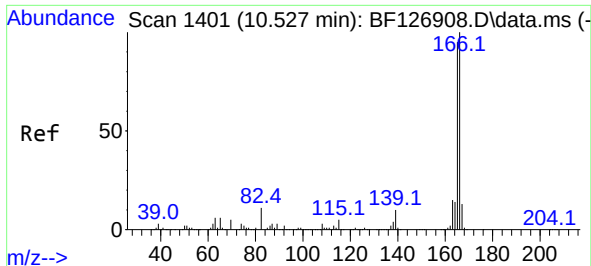
Reviewed By :Christian Giraldo 03/09/2022  
Supervised By :Jagrut Upadhyay 03/09/2022



#55  
Dibenzofuran  
Concen: 2.263 ng  
RT: 10.127 min Scan# 1333  
Delta R.T. -0.000 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

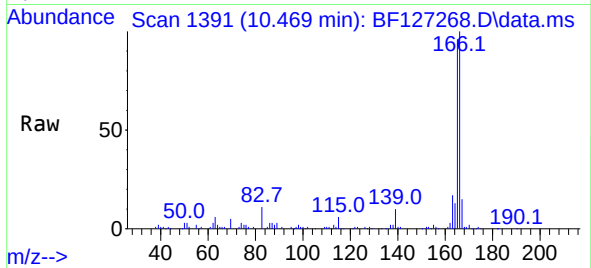
Tgt Ion:168 Resp: 28031  
Ion Ratio Lower Upper  
168 100  
139 43.9 30.6 46.0  
169 11.6 10.0 15.0





#58  
Fluorene  
Concen: 3.791 ng  
RT: 10.469 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

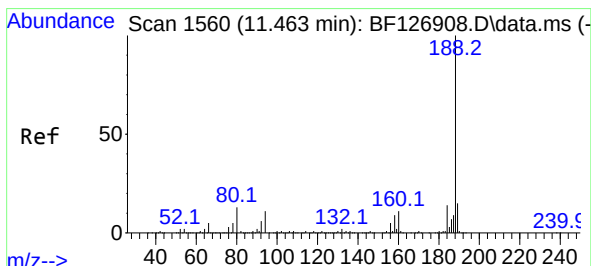
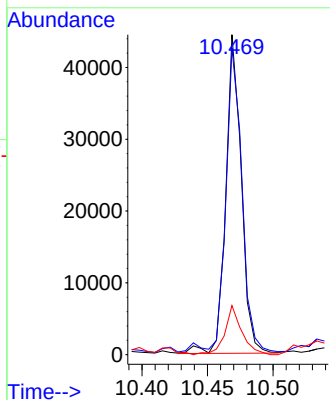
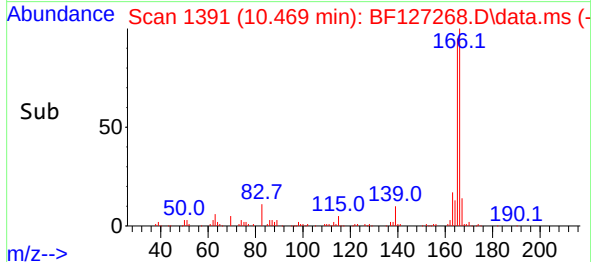
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-030722



Tgt Ion:166 Resp: 36570  
Ion Ratio Lower Upper  
166 100  
165 95.9 77.7 116.5  
167 15.4 10.7 16.1

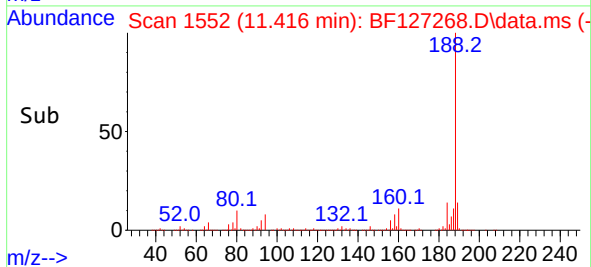
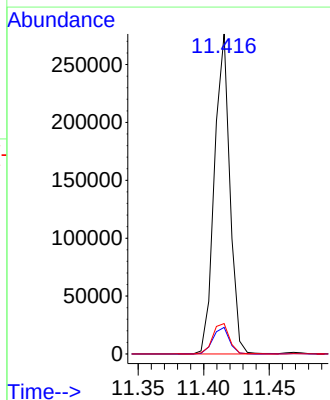
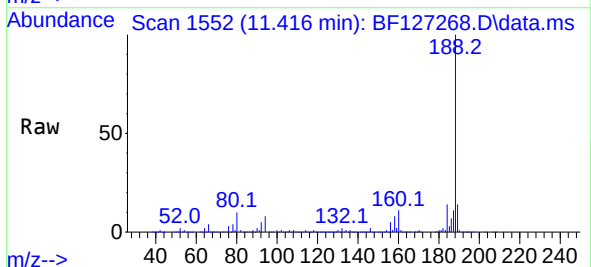
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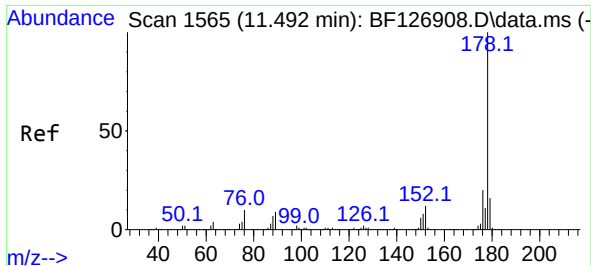


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.416 min Scan# 1552  
Delta R.T. -0.000 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

Tgt Ion:188 Resp: 225775  
Ion Ratio Lower Upper  
188 100  
94 8.3 10.1 15.1#  
80 9.5 11.8 17.6#

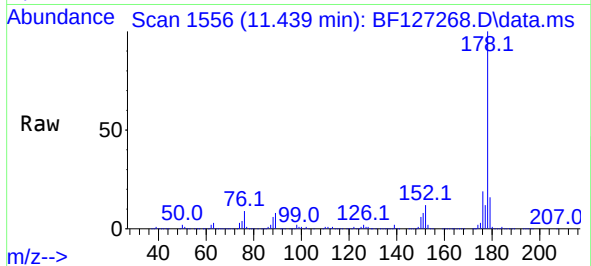






#71  
Phenanthrene  
Concen: 27.815 ng  
RT: 11.439 min Scan# 1556  
Delta R.T. -0.000 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

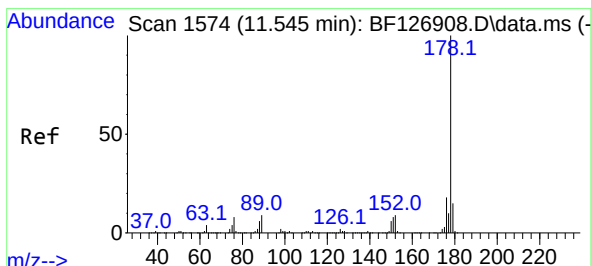
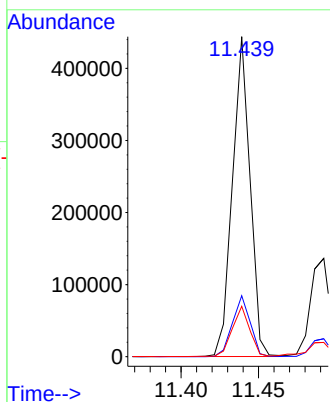
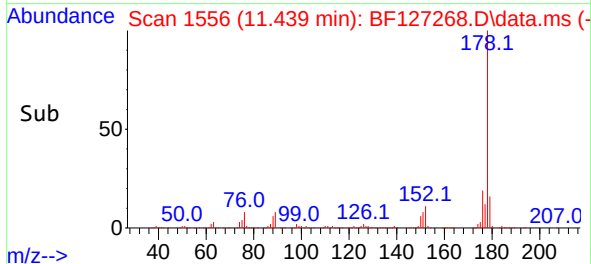
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-030722



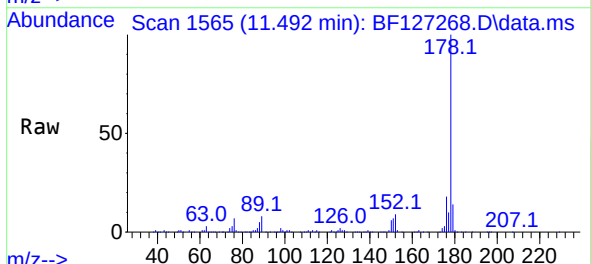
Tgt Ion:178 Resp: 351500  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.7 23.5  
179 15.7 12.3 18.5

Manual Integrations  
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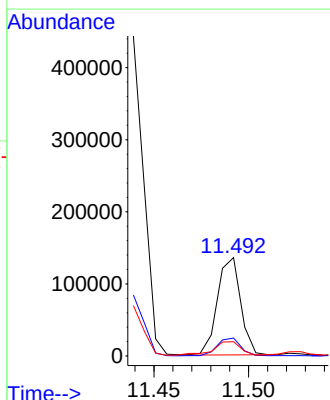
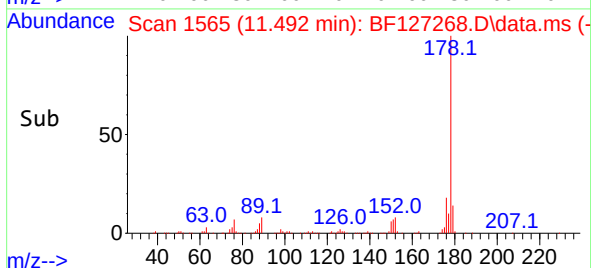
Reviewed By :Christian Giraldo 03/09/2022  
Supervised By :Jagrut Upadhyay 03/09/2022

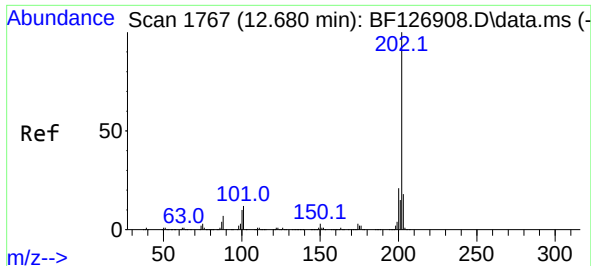


#72  
Anthracene  
Concen: 9.201 ng  
RT: 11.492 min Scan# 1565  
Delta R.T. -0.000 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57



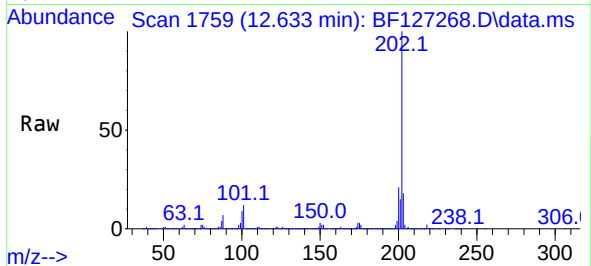
Tgt Ion:178 Resp: 115751  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.0 22.6  
179 14.5 12.5 18.7





#75  
Fluoranthene  
Concen: 46.612 ng  
RT: 12.633 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

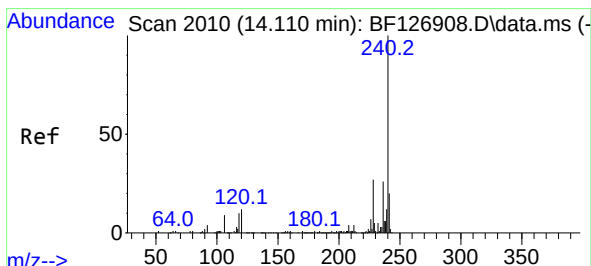
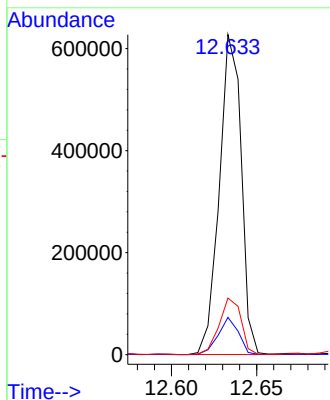
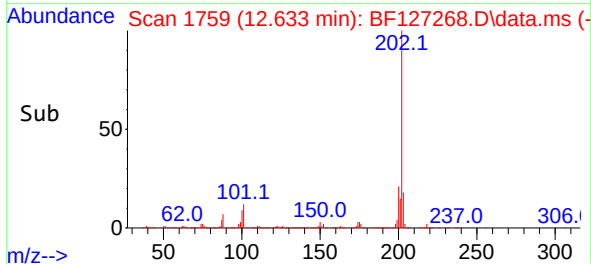
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-030722



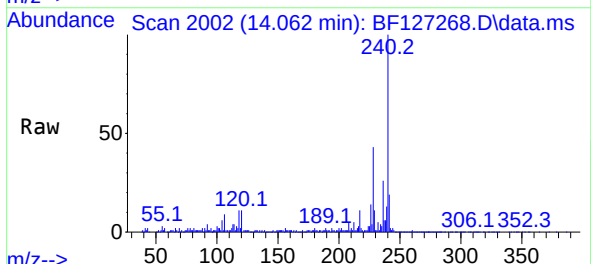
Tgt Ion:202 Resp: 559290  
Ion Ratio Lower Upper  
202 100  
101 11.7 0.0 35.7  
203 17.7 0.0 37.1

Manual Integrations  
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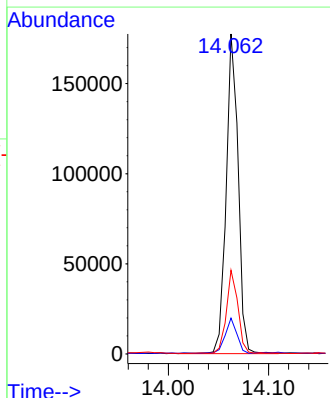
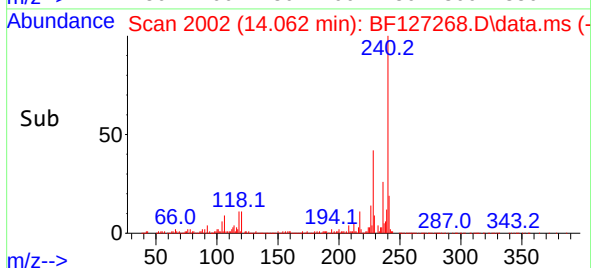
Reviewed By :Christian Giraldo 03/09/2022  
Supervised By :Jagrut Upadhyay 03/09/2022

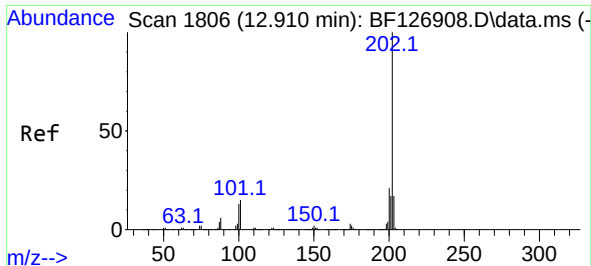


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.062 min Scan# 2002  
Delta R.T. -0.000 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57



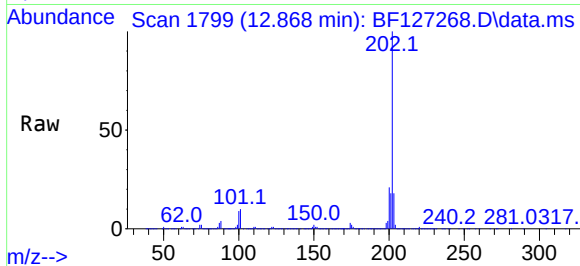
Tgt Ion:240 Resp: 146555  
Ion Ratio Lower Upper  
240 100  
120 11.2 14.4 21.6#  
236 26.2 20.5 30.7





#78  
Pyrene  
Concen: 39.737 ng  
RT: 12.868 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

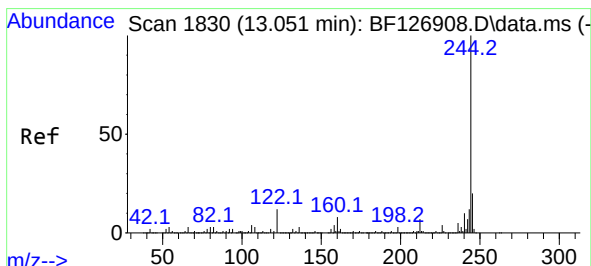
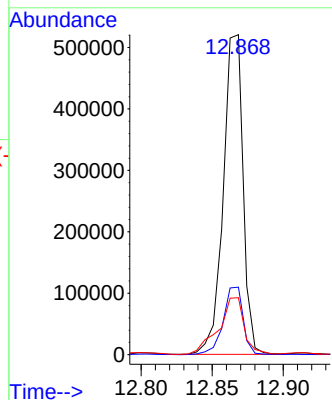
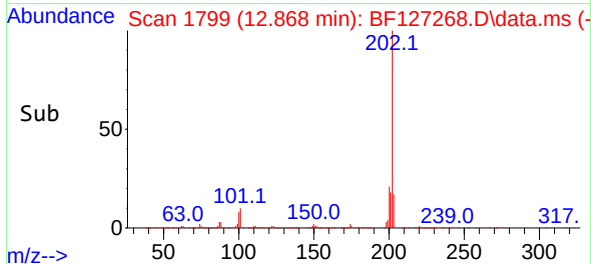
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-030722



Tgt Ion:202 Resp: 505954  
Ion Ratio Lower Upper  
202 100  
200 21.1 16.6 24.8  
203 17.8 13.8 20.8

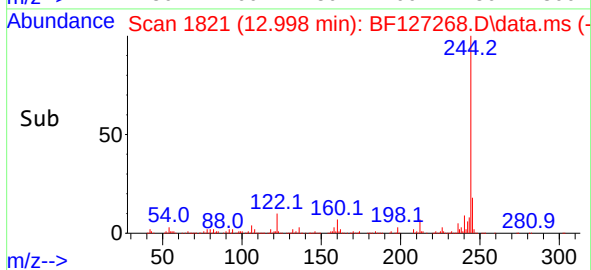
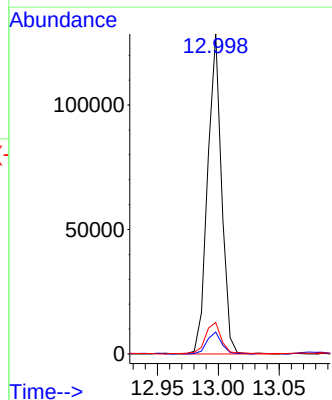
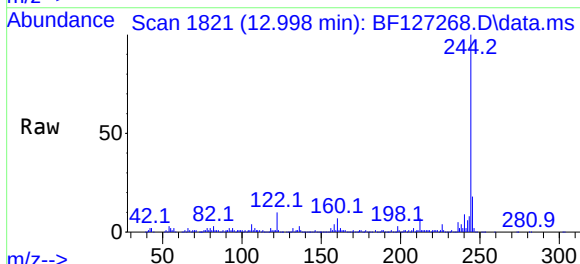
Manual Integrations  
APPROVED

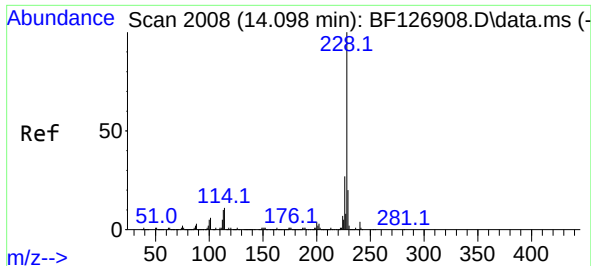
Reviewed By :Christian Giraldo 03/09/2022  
Supervised By :Jagrut Upadhyay 03/09/2022



#79  
Terphenyl-d14  
Concen: 10.256 ng  
RT: 12.998 min Scan# 1821  
Delta R.T. -0.000 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

Tgt Ion:244 Resp: 102248  
Ion Ratio Lower Upper  
244 100  
212 6.9 5.0 7.4  
122 9.8 13.3 19.9#





#81  
Benzo(a)anthracene  
Concen: 23.058 ng  
RT: 14.051 min Scan# 2000  
Delta R.T. -0.000 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

Instrument :

BNA\_F

ClientSampleId :

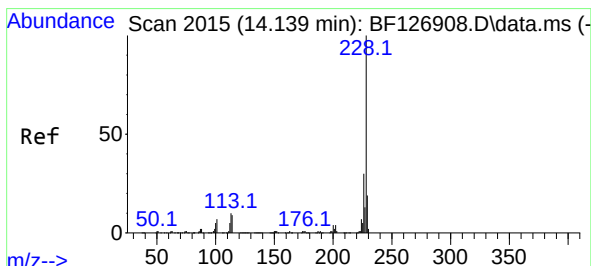
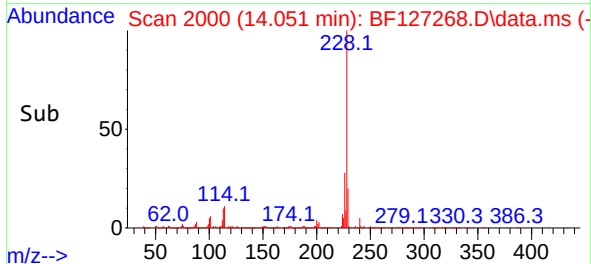
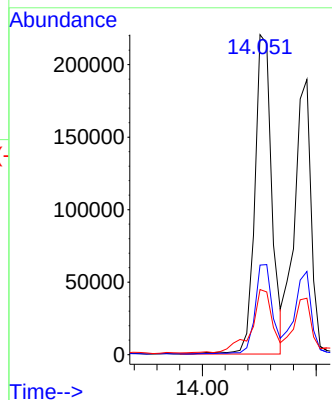
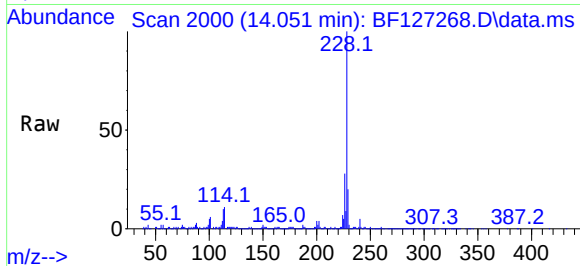
SU-04-030722

Tgt Ion:228 Resp: 227820  
Ion Ratio Lower Upper  
228 100  
226 28.0 21.4 32.0  
229 20.4 15.4 23.2

Manual Integrations

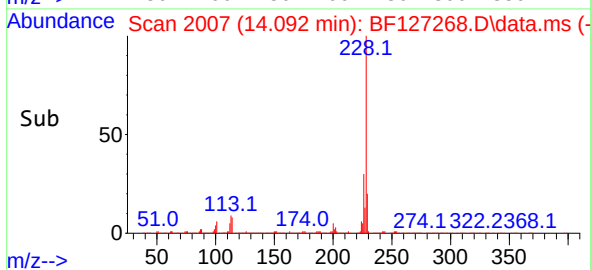
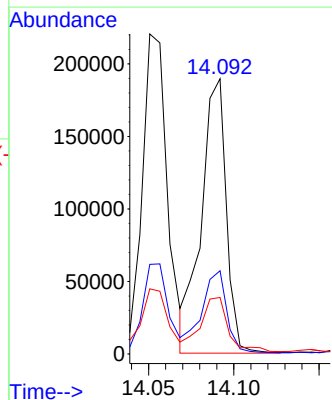
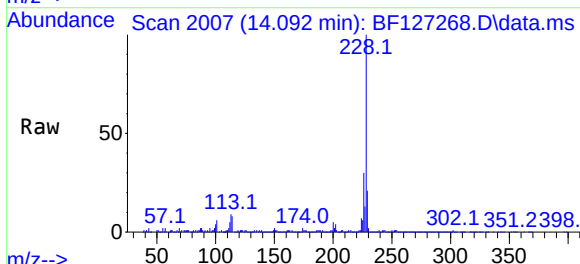
APPROVED

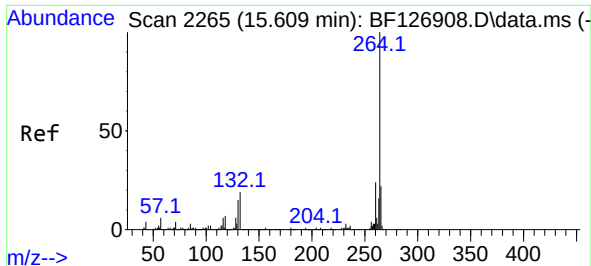
Reviewed By :Christian Giraldo 03/09/2022  
Supervised By :Jagrut Upadhyay 03/09/2022



#83  
Chrysene  
Concen: 20.769 ng  
RT: 14.092 min Scan# 2007  
Delta R.T. 0.006 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

Tgt Ion:228 Resp: 192970  
Ion Ratio Lower Upper  
228 100  
226 30.2 23.7 35.5  
229 20.5 15.5 23.3





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.562 min Scan# 2114  
Delta R.T. 0.017 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

Instrument :

BNA\_F

ClientSampleId :

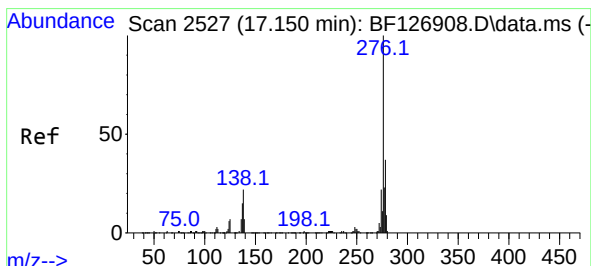
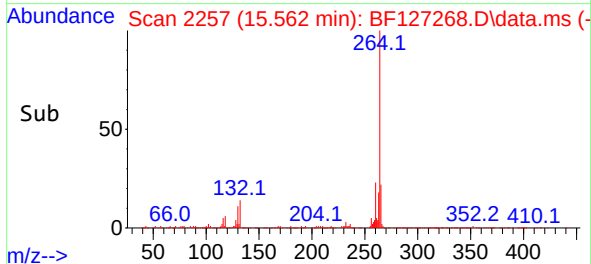
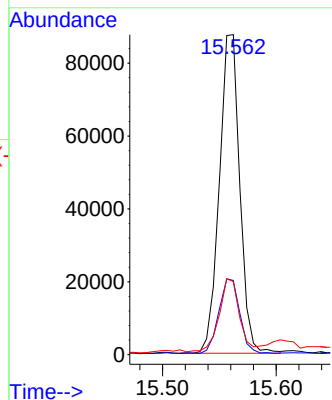
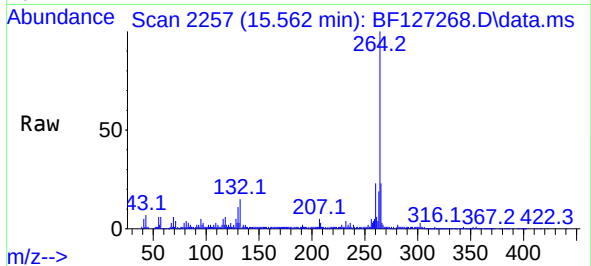
SU-04-030722

Tgt Ion:264 Resp: 10956  
Ion Ratio Lower Upper  
264 100  
260 23.2 19.2 28.8  
265 22.8 17.4 26.2

Manual Integrations

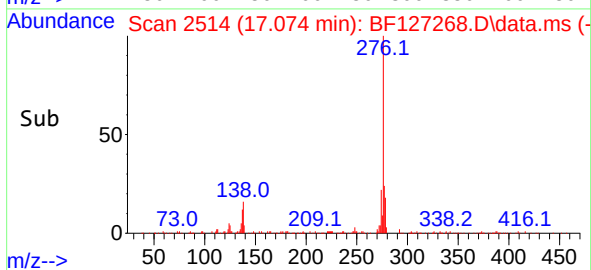
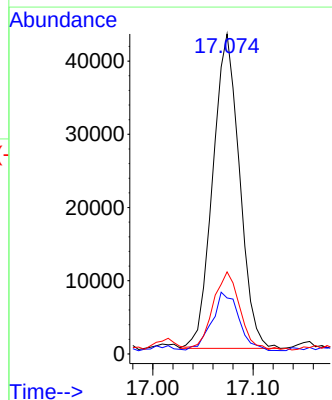
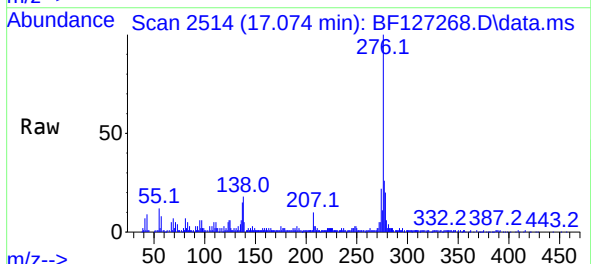
APPROVED

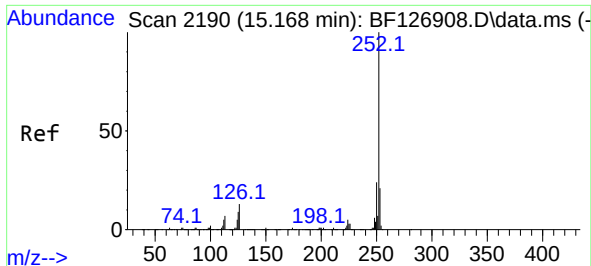
Reviewed By :Christian Giraldo 03/09/2022  
Supervised By :Jagrut Upadhyay 03/09/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 11.100 ng  
RT: 17.074 min Scan# 2514  
Delta R.T. 0.017 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

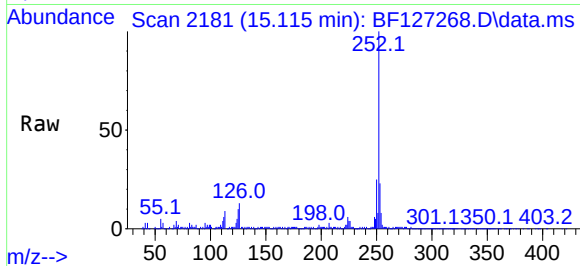
Tgt Ion:276 Resp: 79744  
Ion Ratio Lower Upper  
276 100  
138 18.8 29.2 43.8#  
277 25.1 19.8 29.8





#88  
Benzo(b)fluoranthene  
Concen: 28.957 ng m  
RT: 15.115 min Scan# 2186  
Delta R.T. 0.006 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

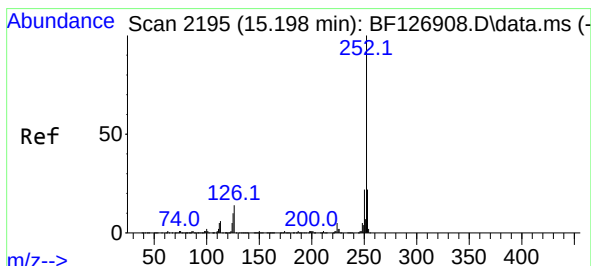
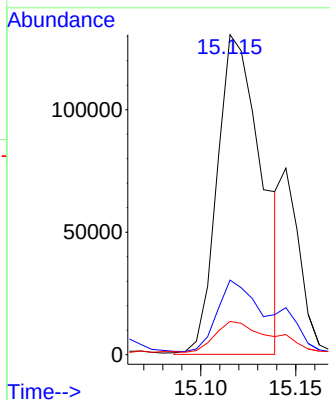
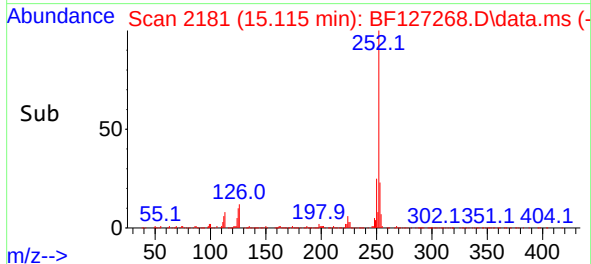
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-030722



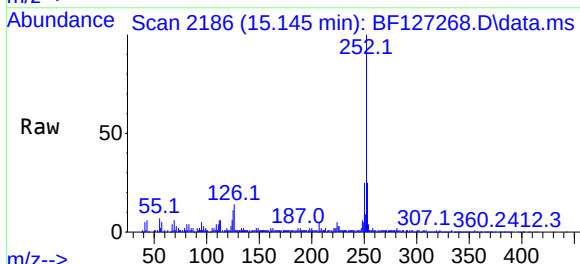
Tgt Ion:252 Resp: 213080  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.8 26.8  
125 10.4 12.4 18.6

Manual Integrations  
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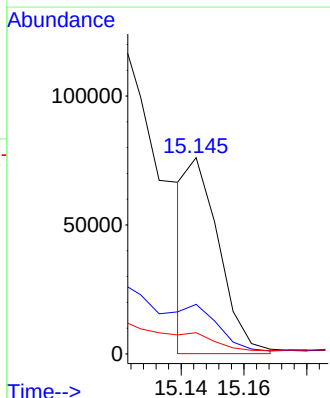
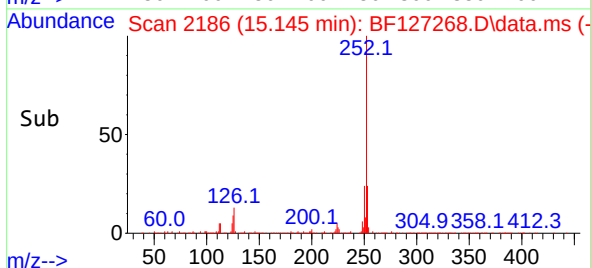
Reviewed By :Christian Giraldo 03/09/2022  
Supervised By :Jagrut Upadhyay 03/09/2022

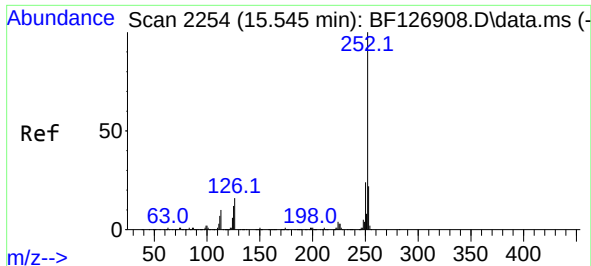


#89  
Benzo(k)fluoranthene  
Concen: 7.414 ng m  
RT: 15.145 min Scan# 2186  
Delta R.T. 0.006 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57



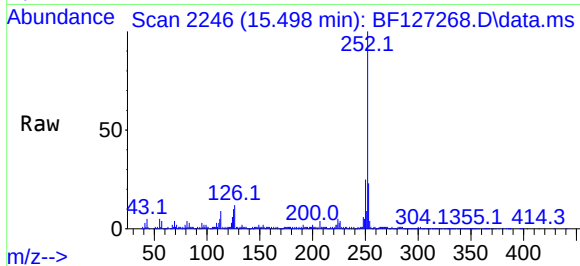
Tgt Ion:252 Resp: 52625  
Ion Ratio Lower Upper  
252 100  
253 25.2 17.5 26.3  
125 10.8 11.8 17.6





#90  
Benzo(a)pyrene  
Concen: 25.338 ng m  
RT: 15.498 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57

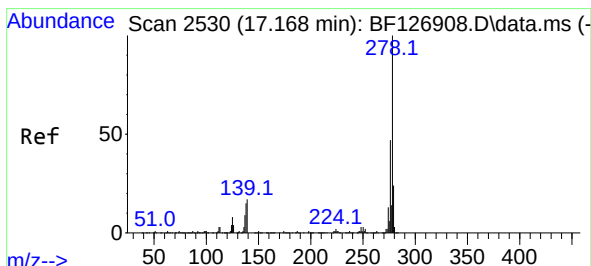
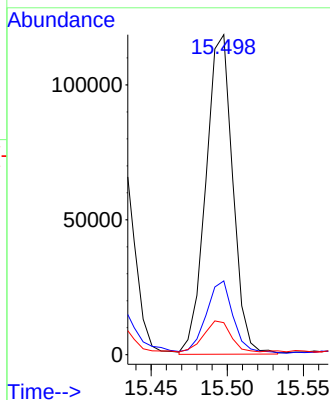
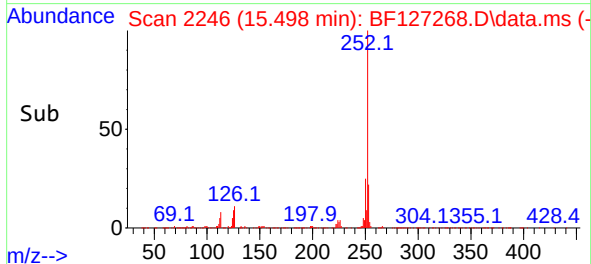
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-030722



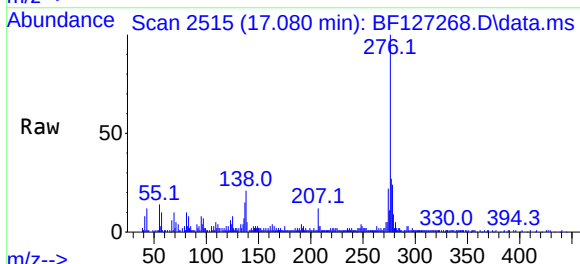
Tgt Ion:252 Resp: 145638  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.1 25.7  
125 10.0 13.0 19.6

Manual Integrations  
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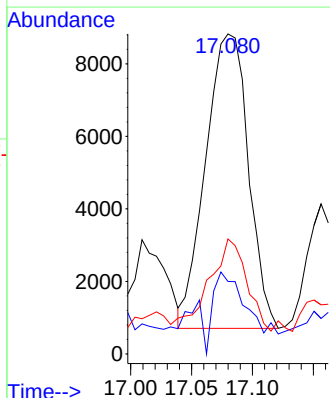
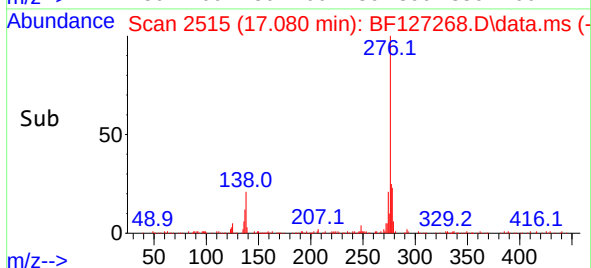
Reviewed By :Christian Giraldo 03/09/2022  
Supervised By :Jagrut Upadhyay 03/09/2022

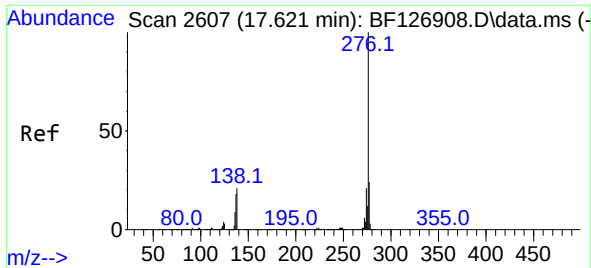


#91  
Dibenzo(a,h)anthracene  
Concen: 3.335 ng  
RT: 17.080 min Scan# 2515  
Delta R.T. 0.006 min  
Lab File: BF127268.D  
Acq: 08 Mar 2022 19:57



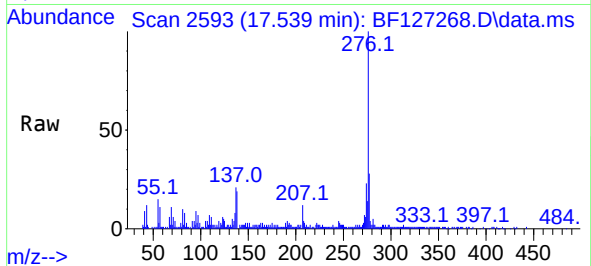
Tgt Ion:278 Resp: 19813  
Ion Ratio Lower Upper  
278 100  
139 22.6 18.0 27.0  
279 36.0 18.6 27.8





#92  
 Benzo(g,h,i)perylene  
 Concen: 12.911 ng  
 RT: 17.539 min Scan# 21  
 Delta R.T. 0.017 min  
 Lab File: BF127268.D  
 Acq: 08 Mar 2022 19:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-030722



Tgt Ion: 276 Resp: 7562

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 27.8  | 18.5  | 27.7  |
| 138 | 18.7  | 25.9  | 38.9  |

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 03/09/2022  
 Supervised By : Jagrut Upadhyay 03/09/2022

