

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF080322\  
 Data File : BF129560.D  
 Acq On : 04 Aug 2022 01:59  
 Operator : CG\JU  
 Sample : N3998-08  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-1

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 08/04/2022  
 Supervised By : Jagrut Upadhyay 08/05/2022

Quant Time: Aug 04 03:03:33 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF072522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 02 01:11:25 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.869  | 152  | 107539   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.151  | 136  | 357115   | 20.000  | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.910  | 164  | 170074   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.398 | 188  | 320006   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.045 | 240  | 237115   | 20.000  | ng    | # 0.00   |
| 86) Perylene-d12            | 15.533 | 264  | 168301   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.504  | 112  | 755075   | 114.379 | ng    | 0.00     |
| 7) Phenol-d6                | 6.516  | 99   | 846952   | 102.070 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.434  | 82   | 504622   | 77.137  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.704 | 330  | 201367   | 123.150 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.228  | 172  | 833660   | 75.828  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.986 | 244  | 1086837  | 86.473  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 11.422 | 178  | 321896   | 18.427  | ng    | 99       |
| 72) Anthracene              | 11.474 | 178  | 45657    | 2.660   | ng    | 100      |
| 73) Carbazole               | 11.633 | 167  | 35171    | 2.177   | ng    | 98       |
| 75) Fluoranthene            | 12.616 | 202  | 754278   | 42.616  | ng    | 99       |
| 78) Pyrene                  | 12.851 | 202  | 693135   | 34.957  | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.039 | 228  | 271173   | 16.742  | ng    | 97       |
| 83) Chrysene                | 14.074 | 228  | 343021   | 22.471  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.039 | 276  | 173637m  | 15.321  | ng    |          |
| 88) Benzo(b)fluoranthene    | 15.098 | 252  | 374426m  | 33.539  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.121 | 252  | 109213m  | 9.983   | ng    |          |
| 90) Benzo(a)pyrene          | 15.468 | 252  | 217576   | 24.008  | ng    | # 95     |
| 91) Dibenzo(a,h)anthracene  | 17.045 | 278  | 42158    | 4.570   | ng    | # 84     |
| 92) Benzo(g,h,i)perylene    | 17.498 | 276  | 196726   | 20.871  | ng    | 99       |
| -----                       |        |      |          |         |       |          |

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

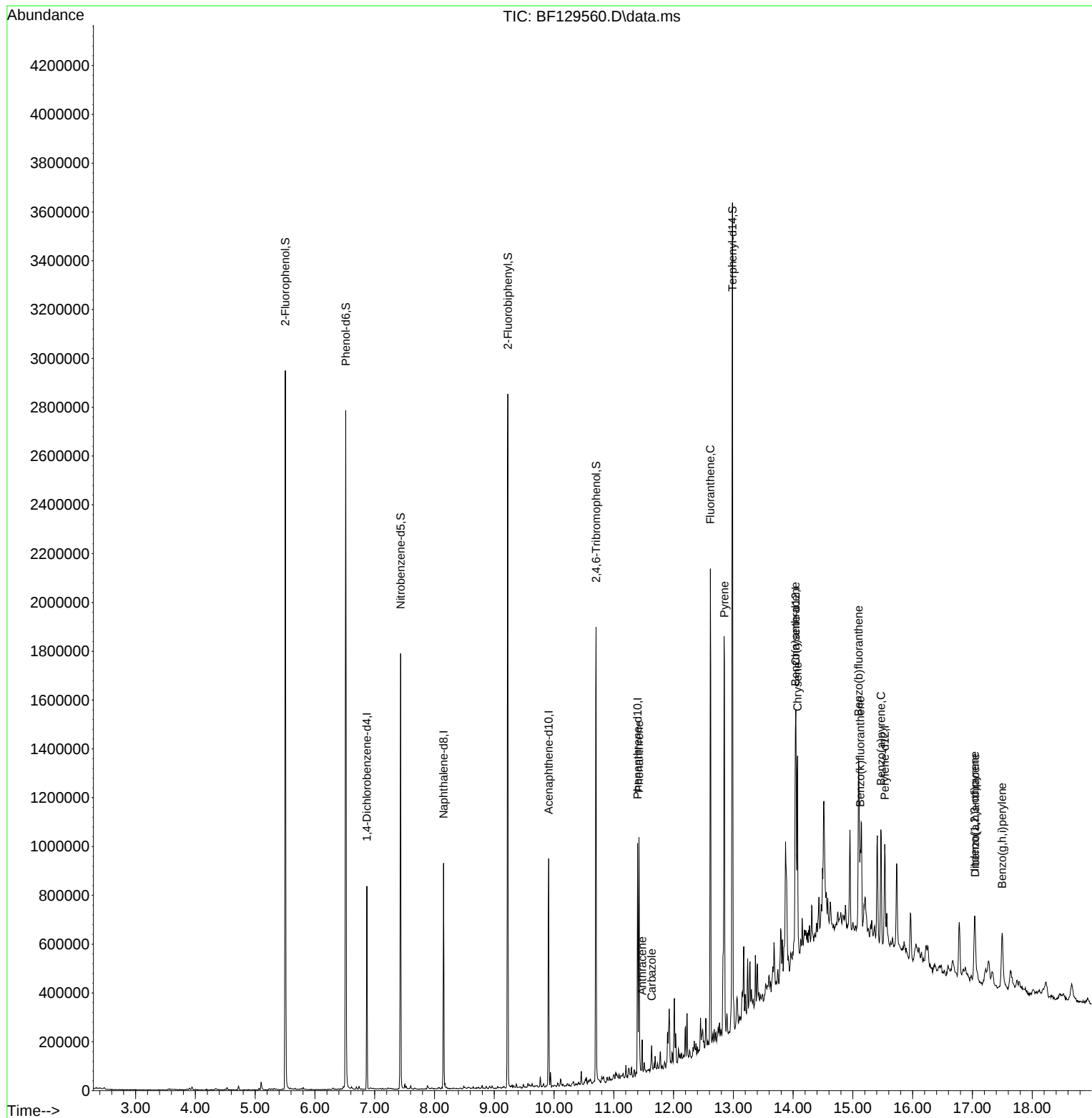
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF080322\  
Data File : BF129560.D  
Acq On : 04 Aug 2022 01:59  
Operator : CG\JU  
Sample : N3998-08  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

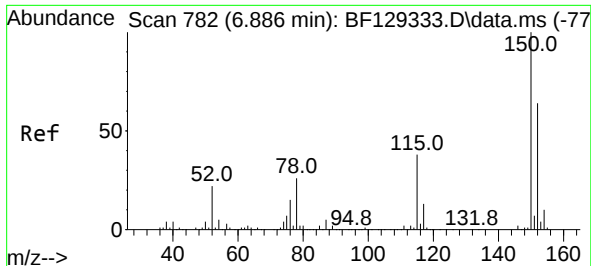
Instrument :  
BNA\_F  
ClientSampleId :  
SS-1

Quant Time: Aug 04 03:03:33 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF072522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Aug 02 01:11:25 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

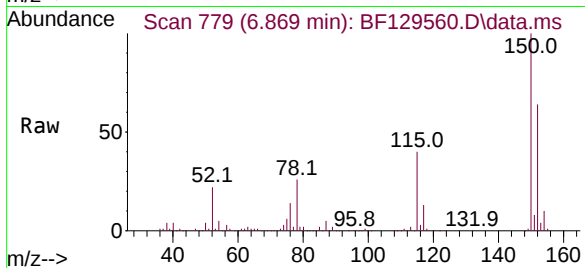
Reviewed By :Christian Giraldo 08/04/2022  
Supervised By :Jagrut Upadhyay 08/05/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.869 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

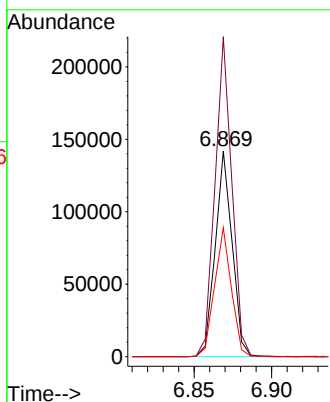
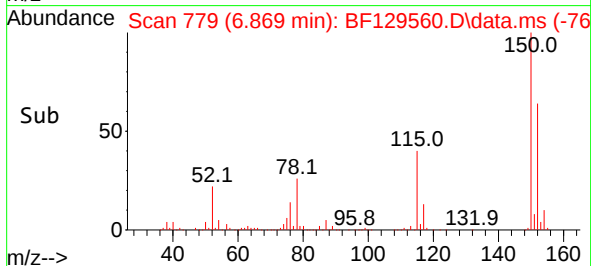
Instrument :  
BNA\_F  
ClientSampleId :  
SS-1



Tgt Ion:152 Resp: 107539  
Ion Ratio Lower Upper  
152 100  
150 155.6 123.7 185.5  
115 62.7 49.9 74.9

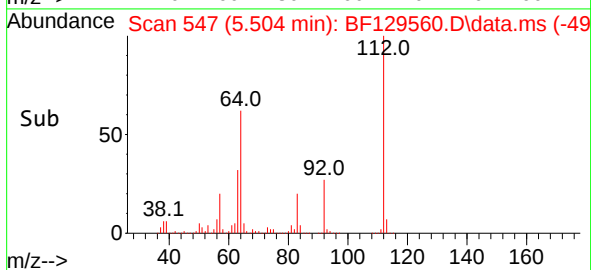
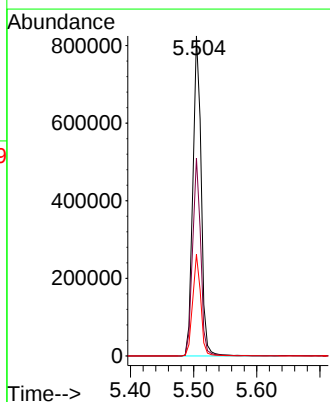
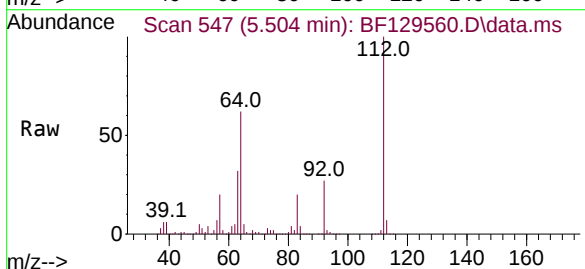
Manual Integrations  
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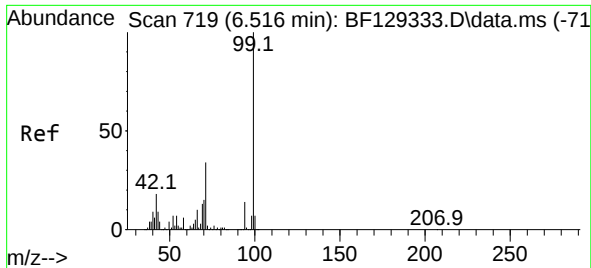
Reviewed By :Christian Giraldo 08/04/2022  
Supervised By :Jagrut Upadhyay 08/05/2022



#5  
2-Fluorophenol  
Concen: 114.379 ng  
RT: 5.504 min Scan# 547  
Delta R.T. -0.000 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

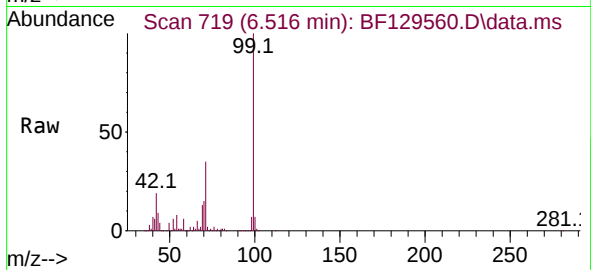
Tgt Ion:112 Resp: 755075  
Ion Ratio Lower Upper  
112 100  
64 61.8 53.3 79.9  
63 31.7 28.0 42.0





#7  
Phenol-d6  
Concen: 102.070 ng  
RT: 6.516 min Scan# 719  
Delta R.T. -0.006 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

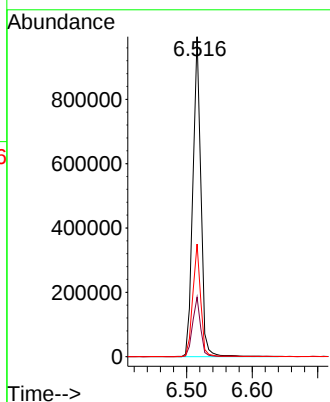
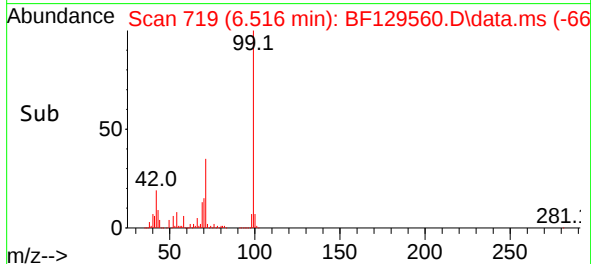
Instrument :  
BNA\_F  
ClientSampleId :  
SS-1



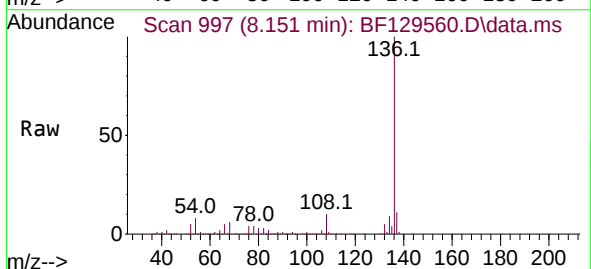
Tgt Ion: 99 Resp: 846952  
Ion Ratio Lower Upper  
99 100  
42 18.6 17.3 25.9  
71 35.2 28.9 43.3

Manual Integrations  
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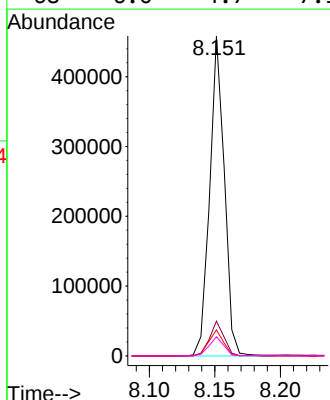
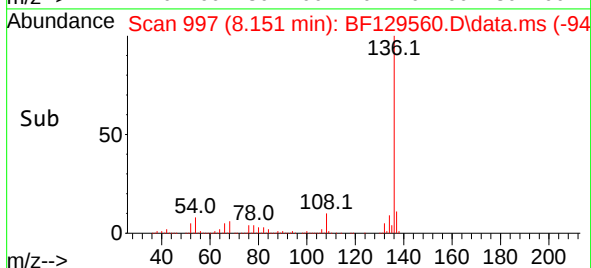
Reviewed By :Christian Giraldo 08/04/2022  
Supervised By :Jagrut Upadhyay 08/05/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.151 min Scan# 997  
Delta R.T. -0.012 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59



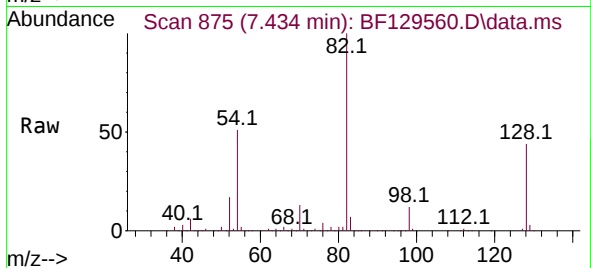
Tgt Ion:136 Resp: 357115  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.8 13.2  
54 8.1 7.5 11.3  
68 6.0 4.7 7.1





#23  
Nitrobenzene-d5  
Concen: 77.137 ng  
RT: 7.434 min Scan# 81  
Delta R.T. -0.012 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

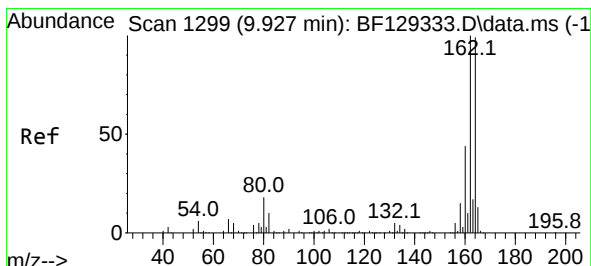
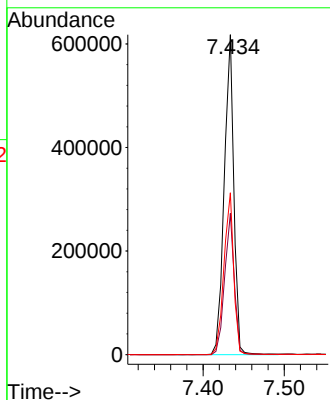
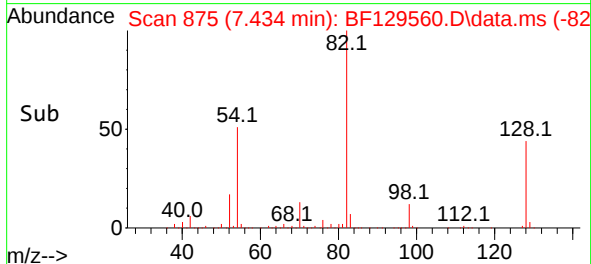
Instrument :  
BNA\_F  
ClientSampleId :  
SS-1



Tgt Ion: 82 Resp: 504622  
Ion Ratio Lower Upper  
82 100  
128 44.1 34.0 51.0  
54 50.6 46.9 70.3

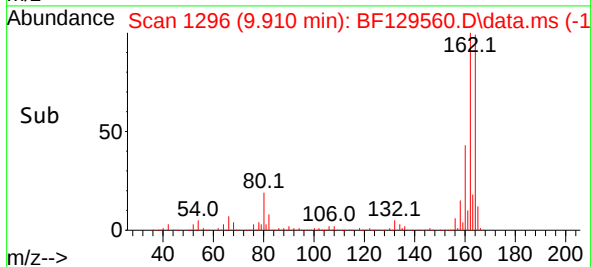
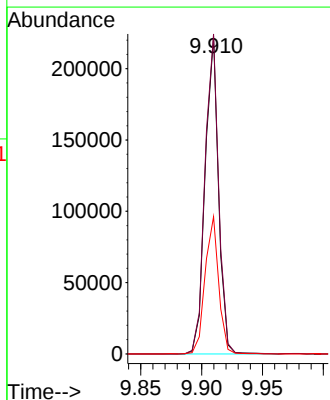
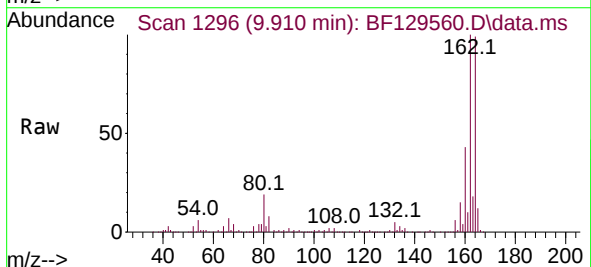
Manual Integrations  
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Reviewed By :Christian Giraldo 08/04/2022  
Supervised By :Jagrut Upadhyay 08/05/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.910 min Scan# 1296  
Delta R.T. -0.006 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

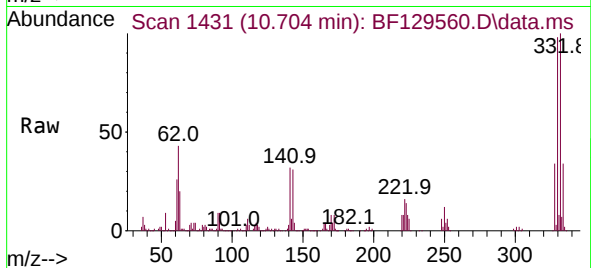
Tgt Ion:164 Resp: 170074  
Ion Ratio Lower Upper  
164 100  
162 100.8 79.5 119.3  
160 43.2 34.2 51.4





#42  
2,4,6-Tribromophenol  
Concen: 123.150 ng  
RT: 10.704 min Scan# 1434  
Delta R.T. -0.006 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

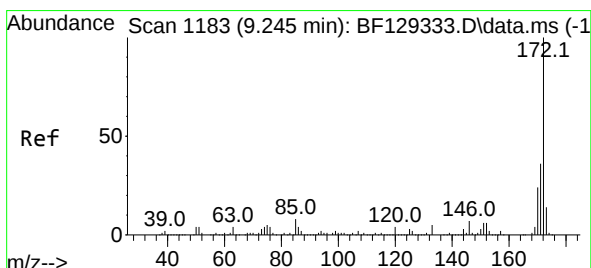
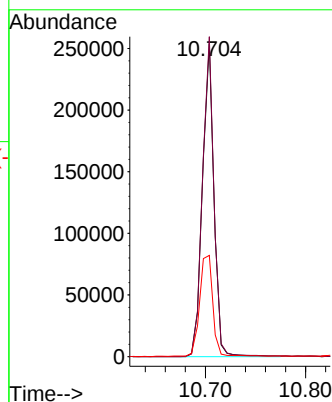
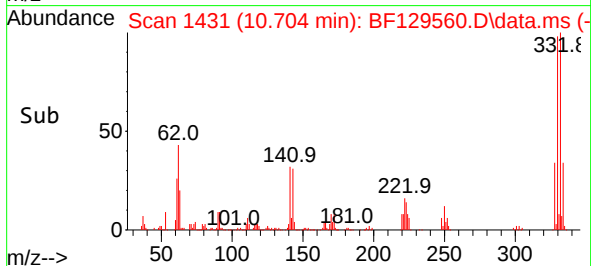
Instrument :  
BNA\_F  
ClientSampleId :  
SS-1



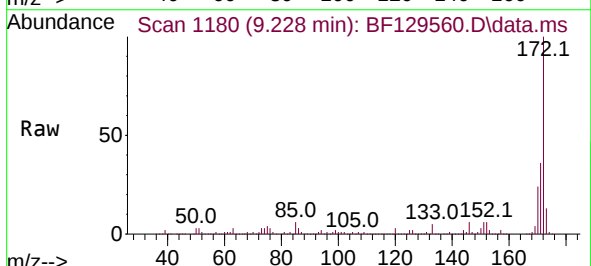
Tgt Ion: 330 Resp: 201362  
Ion Ratio Lower Upper  
330 100  
332 102.0 76.8 115.2  
141 37.1 28.0 42.0

Manual Integrations  
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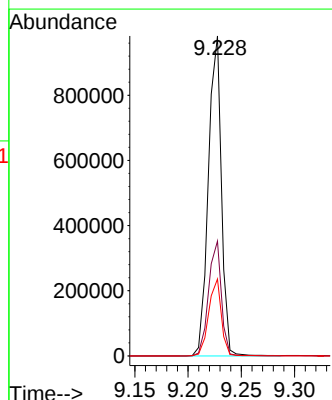
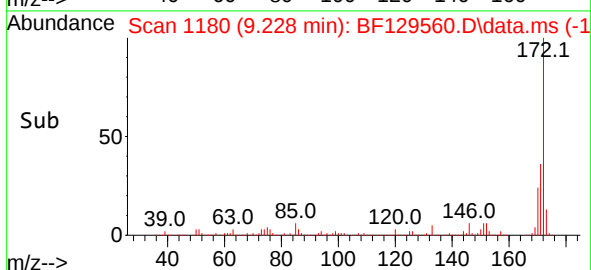
Reviewed By : Christian Giraldo 08/04/2022  
Supervised By : Jagrut Upadhyay 08/05/2022

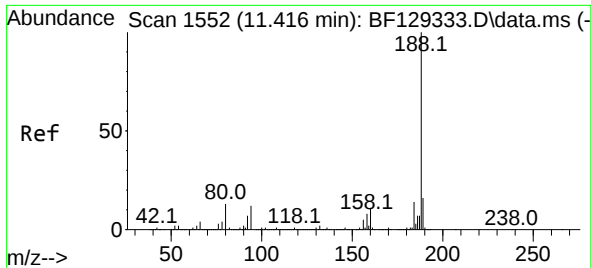


#45  
2-Fluorobiphenyl  
Concen: 75.828 ng  
RT: 9.228 min Scan# 1180  
Delta R.T. -0.006 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59



Tgt Ion: 172 Resp: 833660  
Ion Ratio Lower Upper  
172 100  
171 35.9 28.8 43.2  
170 24.0 19.8 29.8





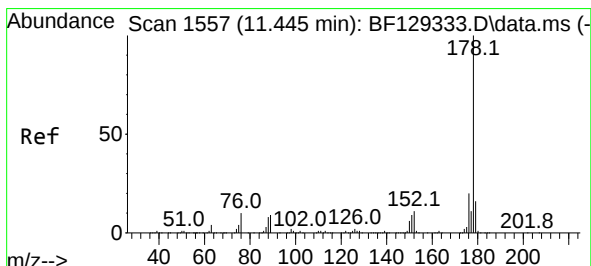
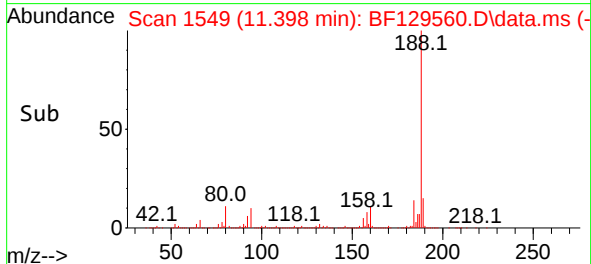
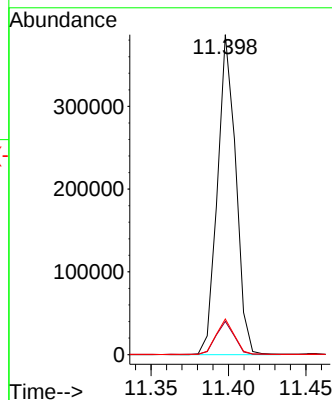
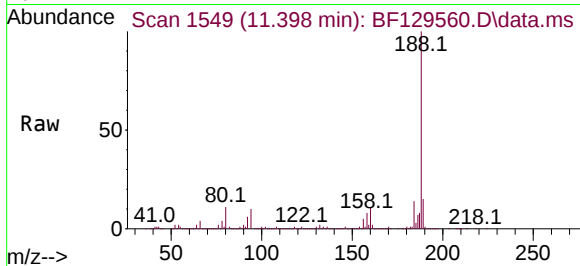
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.398 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

Instrument :  
BNA\_F  
ClientSampleId :  
SS-1

Tgt Ion:188 Resp: 320000  
Ion Ratio Lower Upper  
188 100  
94 10.4 7.0 10.6  
80 11.1 7.6 11.4

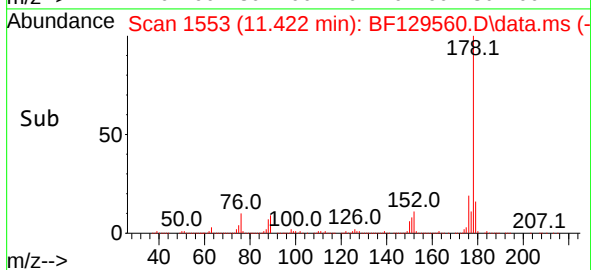
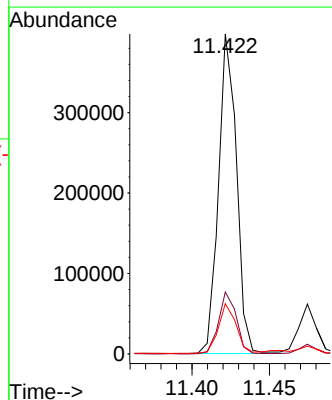
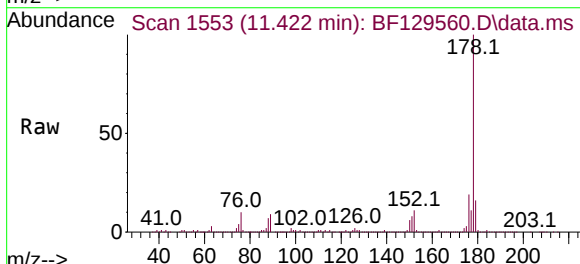
Manual Integrations  
APPROVED

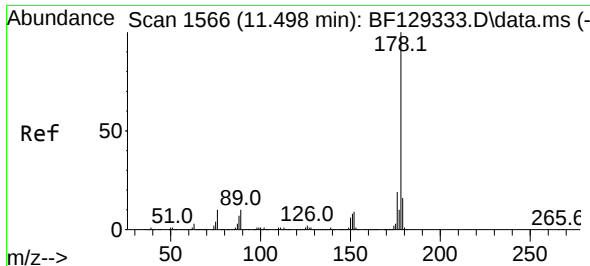
Reviewed By :Christian Giraldo 08/04/2022  
Supervised By :Jagrut Upadhyay 08/05/2022



#71  
Phenanthrene  
Concen: 18.427 ng  
RT: 11.422 min Scan# 1553  
Delta R.T. -0.012 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

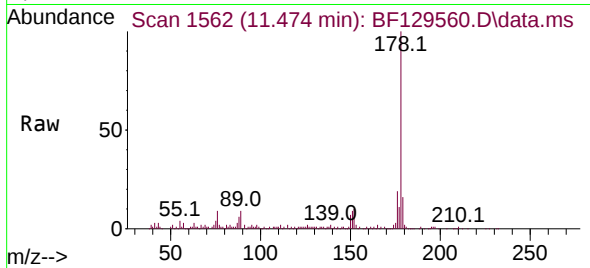
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Ion Ratio Lower Upper  
178 100  
176 19.3 16.0 24.0  
179 15.7 12.6 19.0





#72  
 Anthracene  
 Concen: 2.660 ng  
 RT: 11.474 min Scan# 11  
 Delta R.T. -0.006 min  
 Lab File: BF129560.D  
 Acq: 04 Aug 2022 01:59

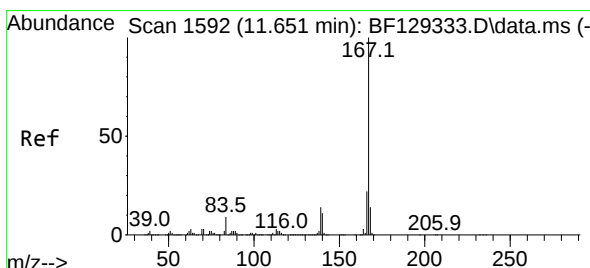
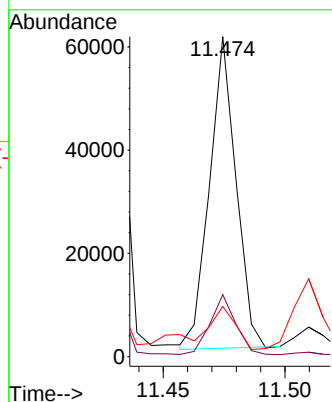
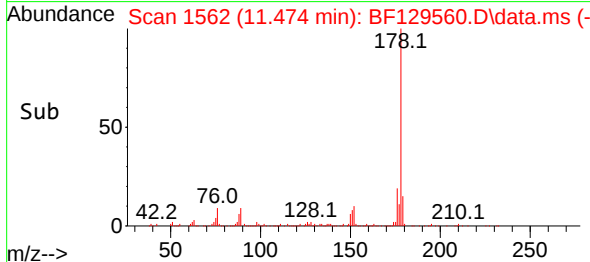
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-1



Tgt Ion:178 Resp: 45652  
 Ion Ratio Lower Upper  
 178 100  
 176 19.4 15.4 23.2  
 179 15.7 12.6 19.0

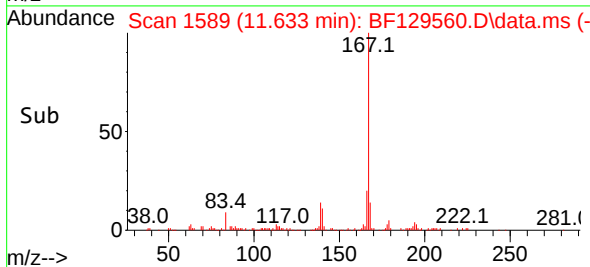
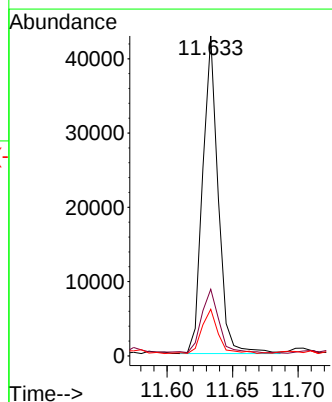
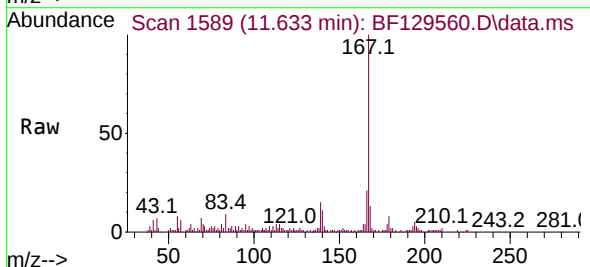
Manual Integrations  
 APPROVED

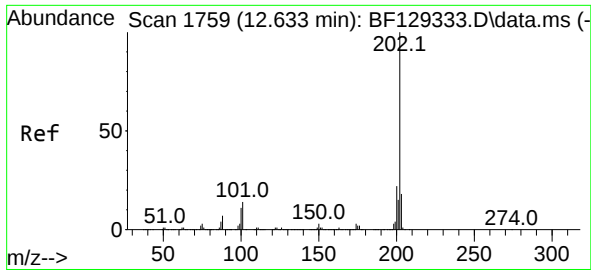
Reviewed By :Christian Giraldo 08/04/2022  
 Supervised By :Jagrut Upadhyay 08/05/2022



#73  
 Carbazole  
 Concen: 2.177 ng  
 RT: 11.633 min Scan# 1589  
 Delta R.T. -0.006 min  
 Lab File: BF129560.D  
 Acq: 04 Aug 2022 01:59

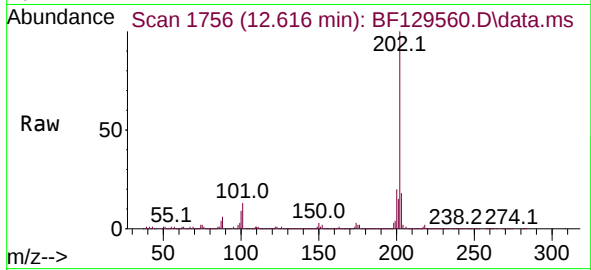
Tgt Ion:167 Resp: 35171  
 Ion Ratio Lower Upper  
 167 100  
 166 20.8 17.7 26.5  
 139 14.6 11.2 16.8





#75  
Fluoranthene  
Concen: 42.616 ng  
RT: 12.616 min Scan# 1759  
Delta R.T. -0.006 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

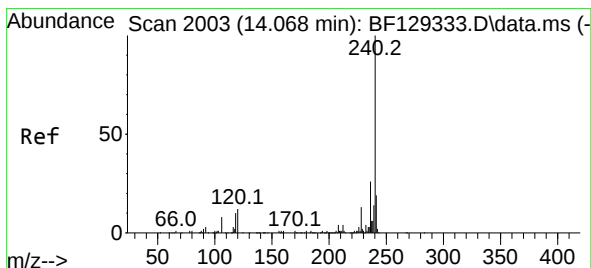
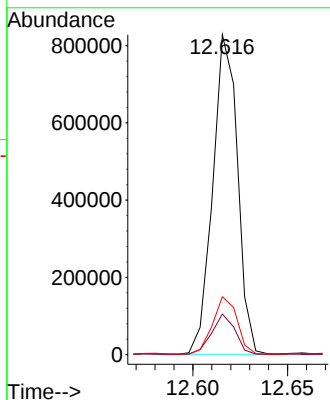
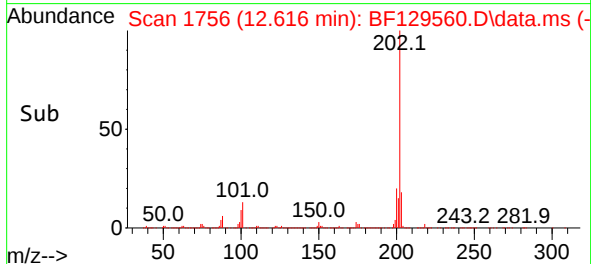
Instrument :  
BNA\_F  
ClientSampleId :  
SS-1



Tgt Ion:202 Resp: 754278  
Ion Ratio Lower Upper  
202 100  
101 12.7 0.0 31.4  
203 18.1 0.0 38.0

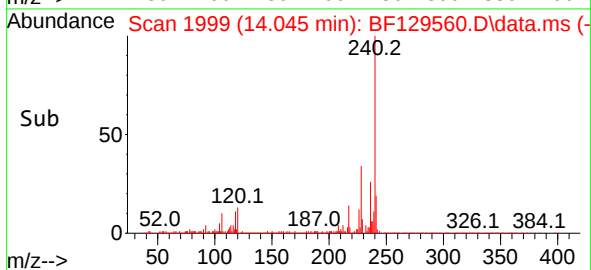
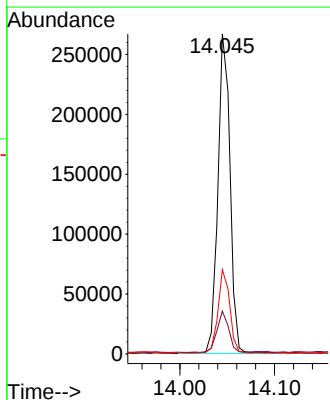
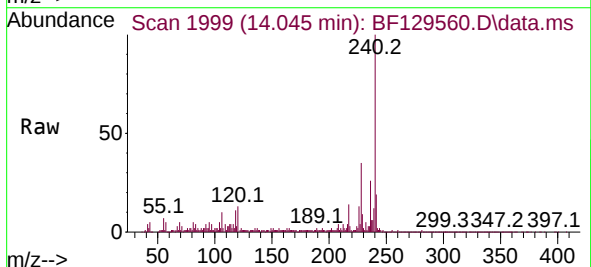
Manual Integrations  
APPROVED

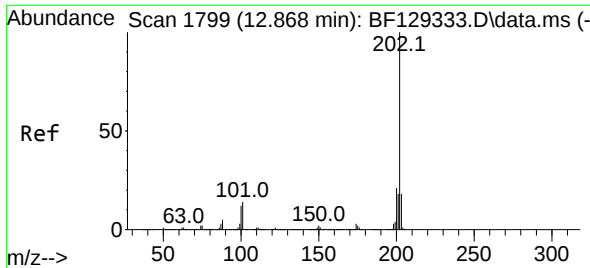
Reviewed By :Christian Giraldo 08/04/2022  
Supervised By :Jagrut Upadhyay 08/05/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.045 min Scan# 1999  
Delta R.T. -0.006 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

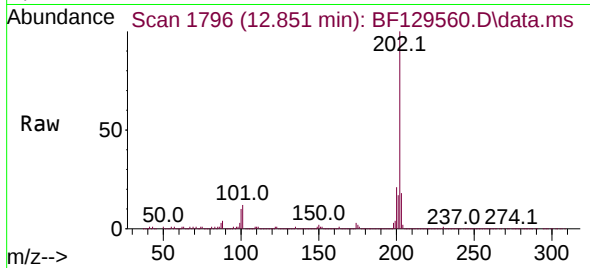
Tgt Ion:240 Resp: 237115  
Ion Ratio Lower Upper  
240 100  
120 13.4 8.9 13.3#  
236 26.3 20.8 31.2





#78  
Pyrene  
Concen: 34.957 ng  
RT: 12.851 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

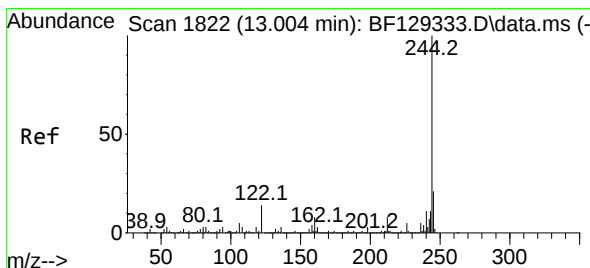
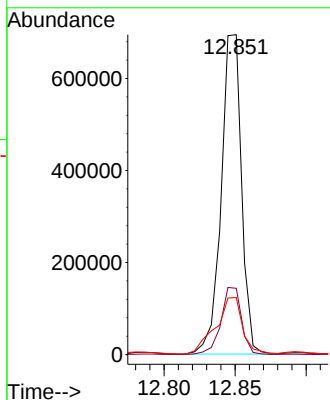
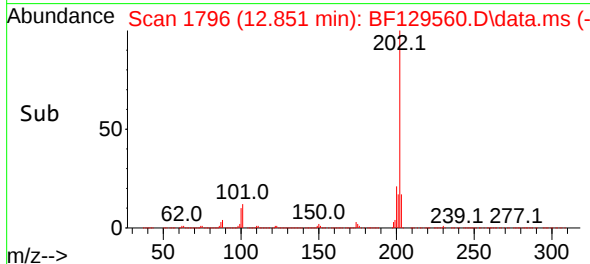
Instrument :  
BNA\_F  
ClientSampleId :  
SS-1



Tgt Ion:202 Resp: 693135  
Ion Ratio Lower Upper  
202 100  
200 20.7 17.7 26.5  
203 17.8 14.6 21.8

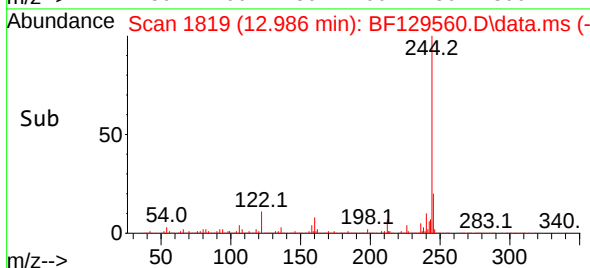
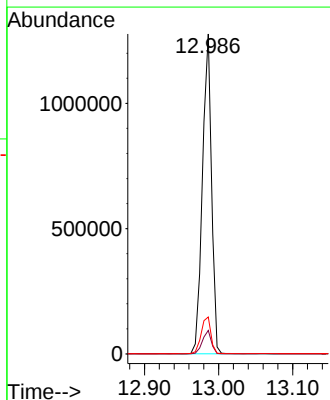
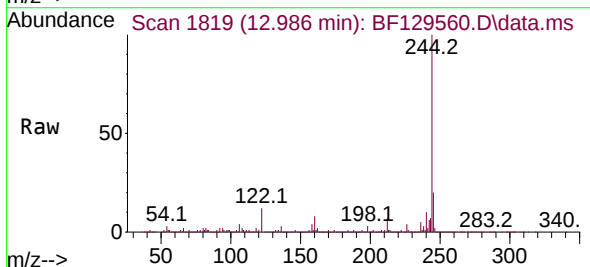
Manual Integrations  
APPROVED

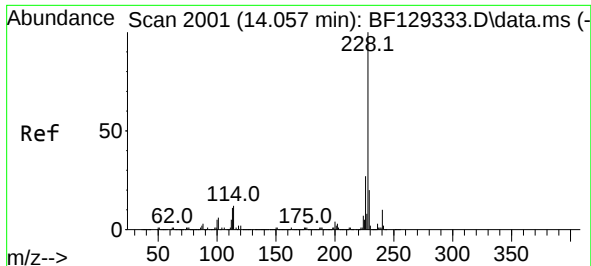
Reviewed By :Christian Giraldo 08/04/2022  
Supervised By :Jagrut Upadhyay 08/05/2022



#79  
Terphenyl-d14  
Concen: 86.473 ng  
RT: 12.986 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

Tgt Ion:244 Resp: 1086837  
Ion Ratio Lower Upper  
244 100  
212 7.3 6.1 9.1  
122 11.5 8.8 13.2





#81

Benzo(a)anthracene

Concen: 16.742 ng

RT: 14.039 min Scan# 19

Delta R.T. -0.000 min

Lab File: BF129560.D

Acq: 04 Aug 2022 01:59

Instrument :

BNA\_F

ClientSampleId :

SS-1

Tgt Ion:228 Resp: 271173

Ion Ratio Lower Upper

228 100

226 29.5 22.1 33.1

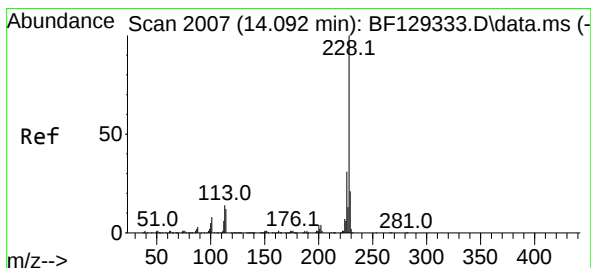
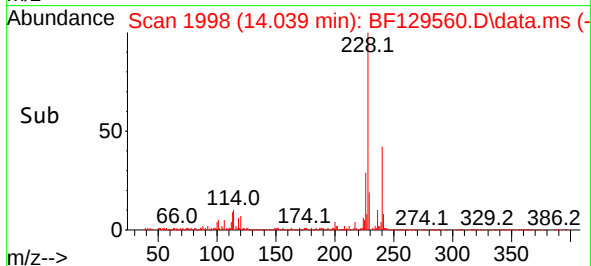
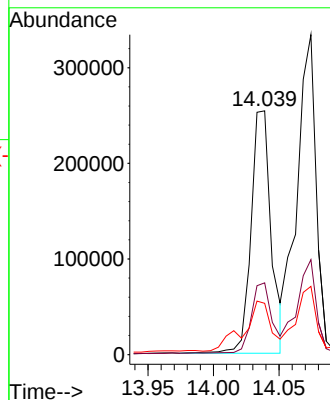
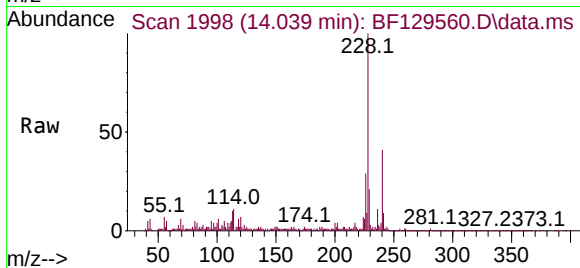
229 21.1 15.8 23.8

Manual Integrations

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Reviewed By :Christian Giraldo 08/04/2022

Supervised By :Jagrut Upadhyay 08/05/2022



#83

Chrysene

Concen: 22.471 ng

RT: 14.074 min Scan# 2004

Delta R.T. -0.000 min

Lab File: BF129560.D

Acq: 04 Aug 2022 01:59

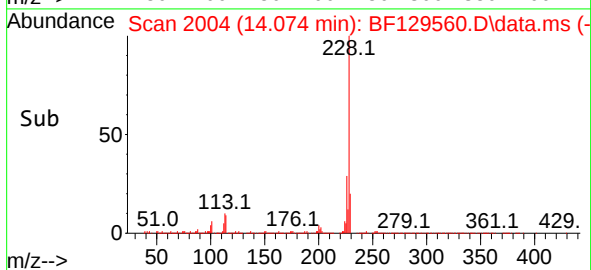
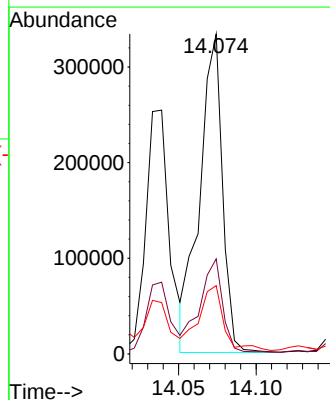
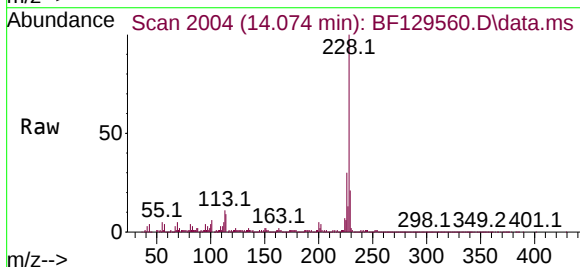
Tgt Ion:228 Resp: 343021

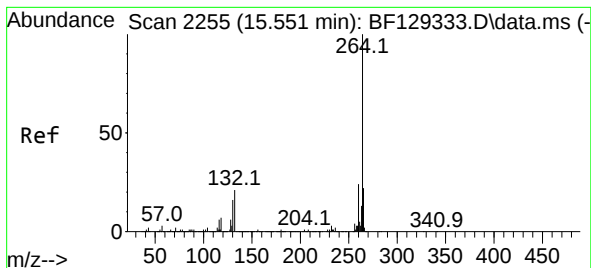
Ion Ratio Lower Upper

228 100

226 29.7 24.3 36.5

229 21.3 15.9 23.9





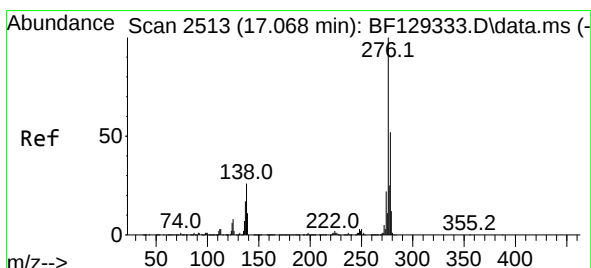
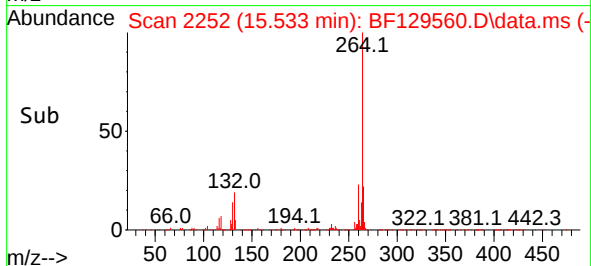
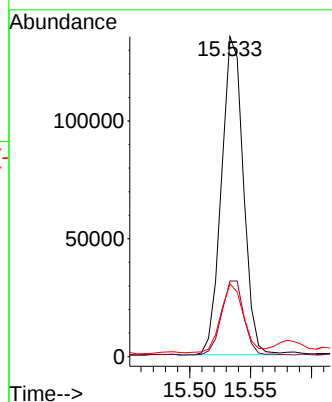
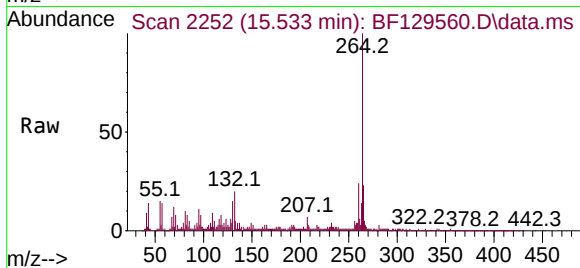
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.533 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

Instrument :  
BNA\_F  
ClientSampleId :  
SS-1

Tgt Ion:264 Resp: 16830  
Ion Ratio Lower Upper  
264 100  
260 23.6 18.4 27.6  
265 22.7 17.2 25.8

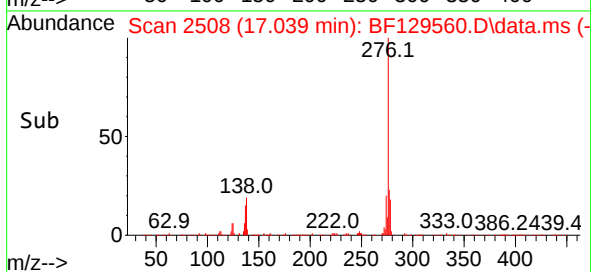
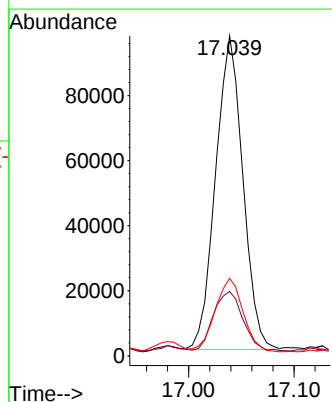
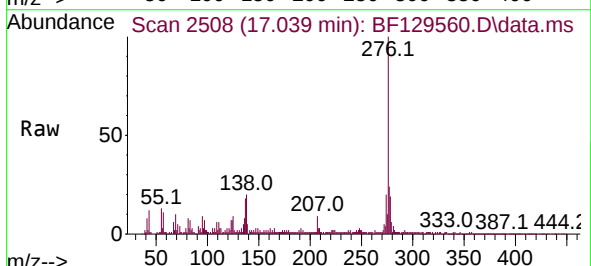
Manual Integrations  
APPROVED

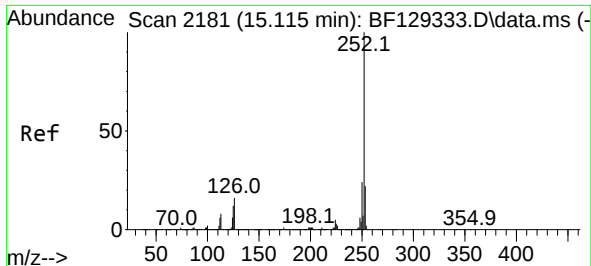
Reviewed By :Christian Giraldo 08/04/2022  
Supervised By :Jagrut Upadhyay 08/05/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 15.321 ng m  
RT: 17.039 min Scan# 2508  
Delta R.T. 0.006 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

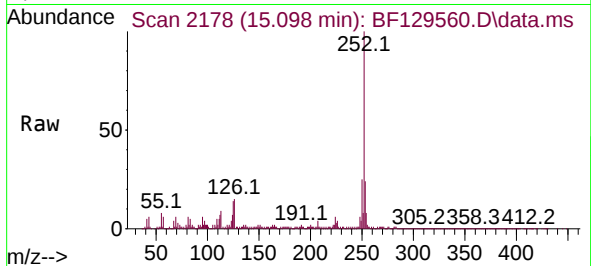
Tgt Ion:276 Resp: 173637  
Ion Ratio Lower Upper  
276 100  
138 4.1 21.1 31.7#  
277 5.1 20.3 30.5#





#88  
Benzo(b)fluoranthene  
Concen: 33.539 ng m  
RT: 15.098 min Scan# 2181  
Delta R.T. 0.006 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

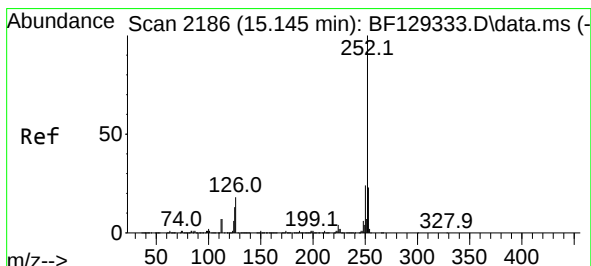
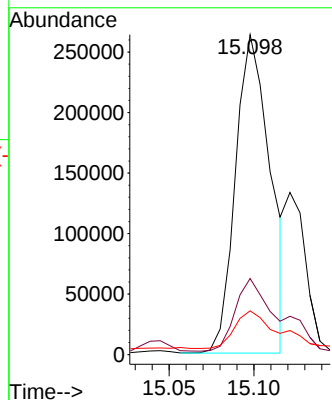
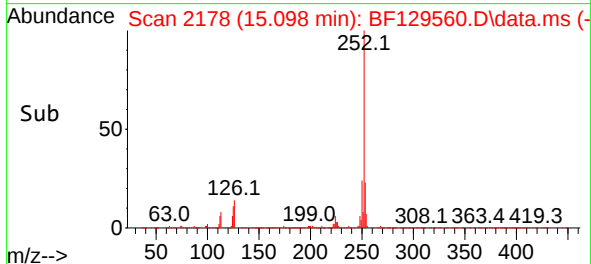
Instrument :  
BNA\_F  
ClientSampleId :  
SS-1



Tgt Ion:252 Resp: 374426  
Ion Ratio Lower Upper  
252 100  
253 23.8 17.7 26.5  
125 13.7 8.0 12.0

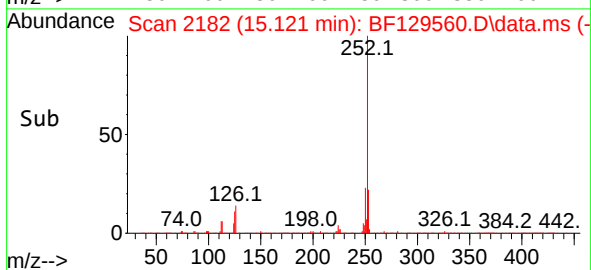
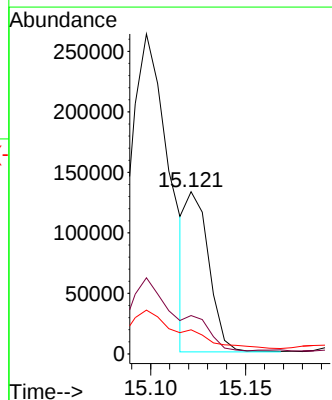
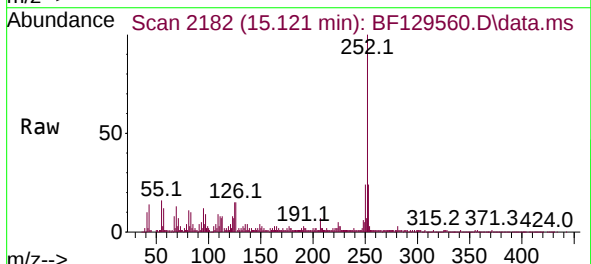
Manual Integrations  
APPROVED

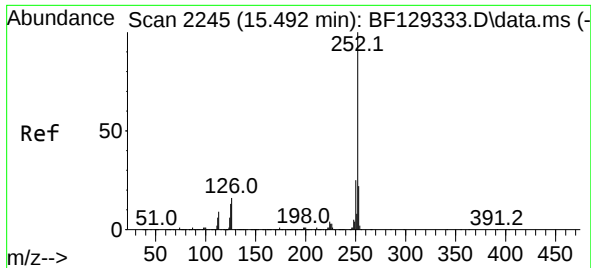
Reviewed By :Christian Giraldo 08/04/2022  
Supervised By :Jagrut Upadhyay 08/05/2022



#89  
Benzo(k)fluoranthene  
Concen: 9.983 ng m  
RT: 15.121 min Scan# 2182  
Delta R.T. -0.000 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

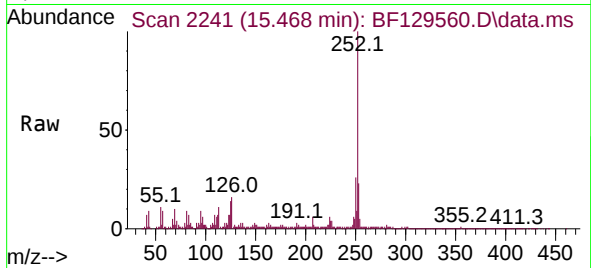
Tgt Ion:252 Resp: 109213  
Ion Ratio Lower Upper  
252 100  
253 23.7 17.8 26.6  
125 14.9 8.3 12.5





#90  
Benzo(a)pyrene  
Concen: 24.008 ng  
RT: 15.468 min Scan# 217576  
Delta R.T. -0.000 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59

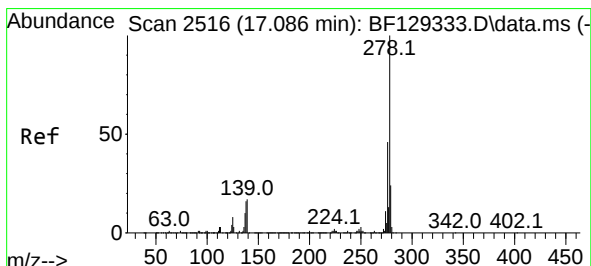
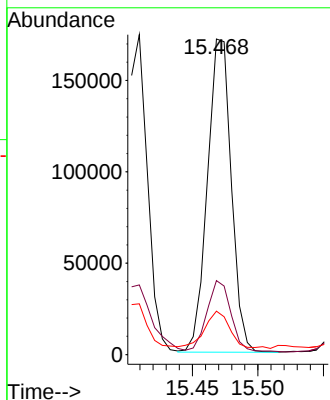
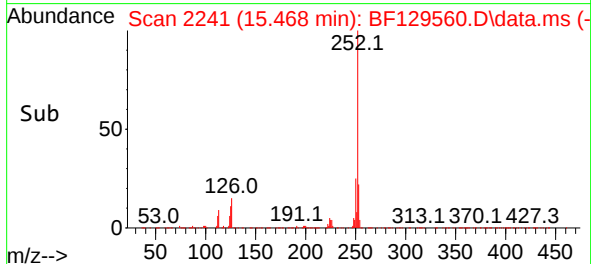
Instrument :  
BNA\_F  
ClientSampleId :  
SS-1



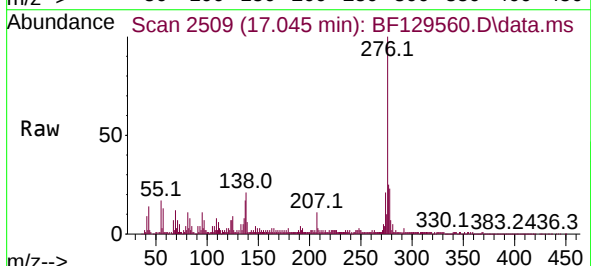
Tgt Ion:252 Resp: 217576  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.0 25.6  
125 13.7 8.8 13.2

Manual Integrations  
APPROVED

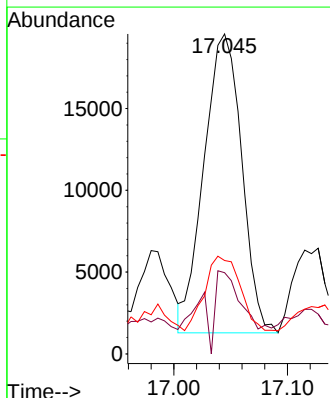
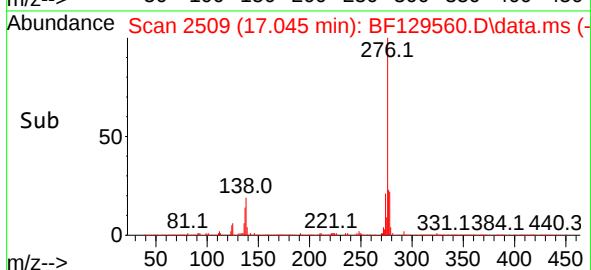
Reviewed By :Christian Giraldo 08/04/2022  
Supervised By :Jagrut Upadhyay 08/05/2022

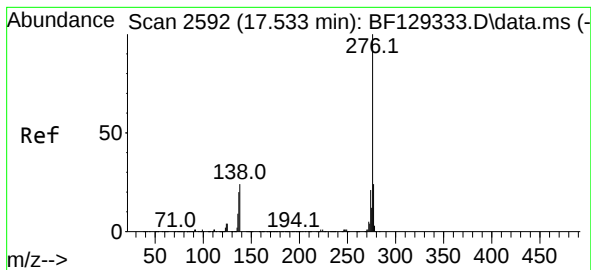


#91  
Dibenzo(a,h)anthracene  
Concen: 4.570 ng  
RT: 17.045 min Scan# 2509  
Delta R.T. -0.000 min  
Lab File: BF129560.D  
Acq: 04 Aug 2022 01:59



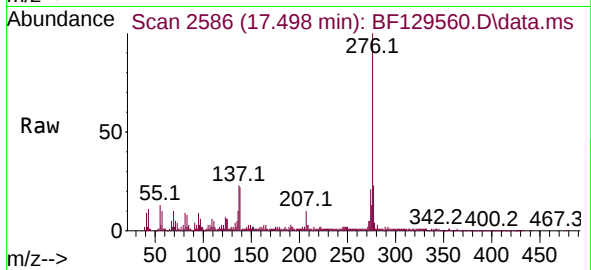
Tgt Ion:278 Resp: 42158  
Ion Ratio Lower Upper  
278 100  
139 25.4 12.8 19.2#  
279 29.2 18.6 28.0#





#92  
 Benzo(g,h,i)perylene  
 Concen: 20.871 ng  
 RT: 17.498 min Scan# 2586  
 Delta R.T. 0.006 min  
 Lab File: BF129560.D  
 Acq: 04 Aug 2022 01:59

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-1



Tgt Ion: 276 Resp: 196726  
 Ion Ratio Lower Upper  
 276 100  
 277 23.0 19.1 28.7  
 138 21.9 18.0 27.0

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 08/04/2022  
 Supervised By : Jagrut Upadhyay 08/05/2022

