

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF030623\  
 Data File : BF132669.D  
 Acq On : 07 Mar 2023 02:00  
 Operator : CG\JU  
 Sample : 01817-01  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-04-03032023

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 03/07/2023  
 Supervised By : Jagrut Upadhyay 03/07/2023

Quant Time: Mar 07 03:25:29 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF022223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 24 23:17:30 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.998  | 152  | 145807   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.287  | 136  | 461462   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 10.045 | 164  | 208194   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.545 | 188  | 418273   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.210 | 240  | 286203   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12            | 15.768 | 264  | 217375   | 20.000 | ng    | # 0.01   |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.628  | 112  | 861407   | 95.883 | ng    | 0.00     |
| 7) Phenol-d6                | 6.622  | 99   | 1000131  | 85.300 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.563  | 82   | 590057   | 60.666 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.845 | 330  | 214082   | 95.215 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.357  | 172  | 861683   | 63.021 | ng    | -0.01    |
| 79) Terphenyl-d14           | 13.139 | 244  | 1122031  | 66.284 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 9.910  | 152  | 182018   | 9.154  | ng    | 99       |
| 52) Acenaphthene            | 10.081 | 154  | 47107    | 3.731  | ng    | 98       |
| 55) Dibenzofuran            | 10.251 | 168  | 40954    | 2.225  | ng    | # 97     |
| 58) Fluorene                | 10.598 | 166  | 89853    | 6.382  | ng    | 98       |
| 71) Phenanthrene            | 11.569 | 178  | 722986   | 33.366 | ng    | 98       |
| 72) Anthracene              | 11.622 | 178  | 283447   | 12.703 | ng    | 99       |
| 73) Carbazole               | 11.775 | 167  | 52372    | 2.603  | ng    | 97       |
| 75) Fluoranthene            | 12.774 | 202  | 1893463  | 79.933 | ng    | 98       |
| 78) Pyrene                  | 13.010 | 202  | 1998793  | 76.815 | ng    | 100      |
| 81) Benzo(a)anthracene      | 14.204 | 228  | 1018698  | 47.571 | ng    | 93       |
| 83) Chrysene                | 14.239 | 228  | 1014952  | 50.684 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.374 | 276  | 438979   | 30.820 | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.304 | 252  | 971870m  | 66.715 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.333 | 252  | 375611m  | 26.346 | ng    |          |
| 90) Benzo(a)pyrene          | 15.704 | 252  | 705795   | 51.768 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene  | 17.386 | 278  | 118595   | 10.219 | ng    | 95       |
| 92) Benzo(g,h,i)perylene    | 17.868 | 276  | 450731   | 34.826 | ng    | 99       |
| -----                       |        |      |          |        |       |          |

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

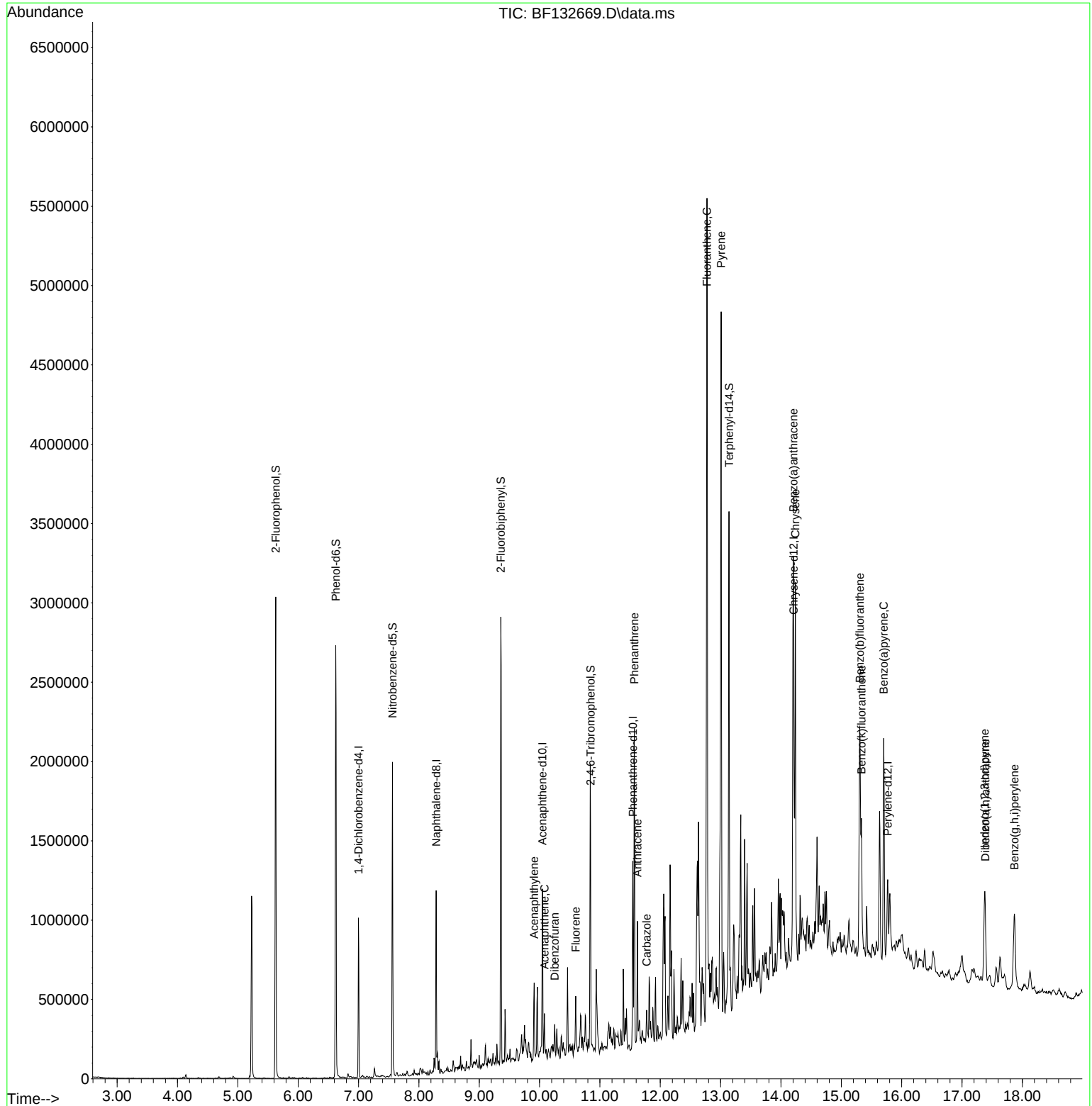
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Data File : BF132669.D  
Acq On : 07 Mar 2023 02:00  
Operator : CG\JU  
Sample : 01817-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

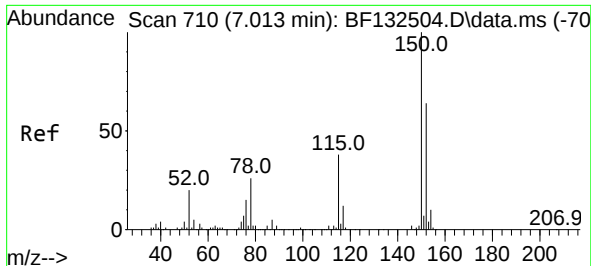
Instrument :  
BNA\_F  
ClientSampleId :  
PL-04-03032023

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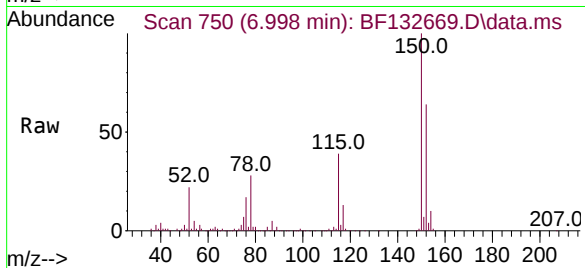
Quant Time: Mar 07 03:25:29 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF022223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 24 23:17:30 2023  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.998 min Scan# 710  
Delta R.T. -0.009 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00

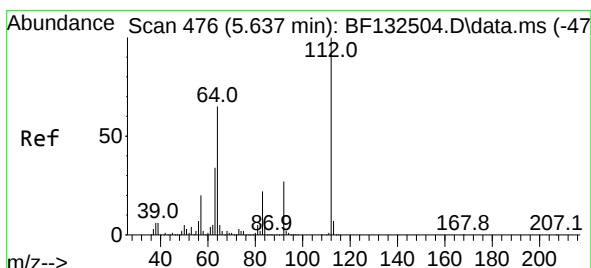
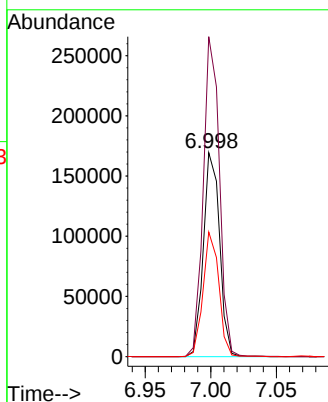
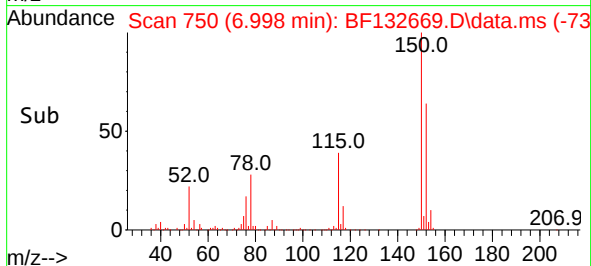
Instrument :  
BNA\_F  
ClientSampleId :  
PL-04-03032023



Tgt Ion:152 Resp: 145807  
Ion Ratio Lower Upper  
152 100  
150 156.9 125.4 188.2  
115 61.1 47.8 71.6

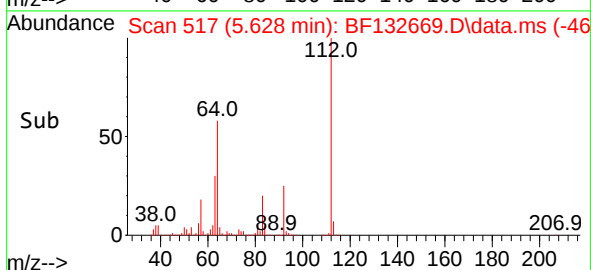
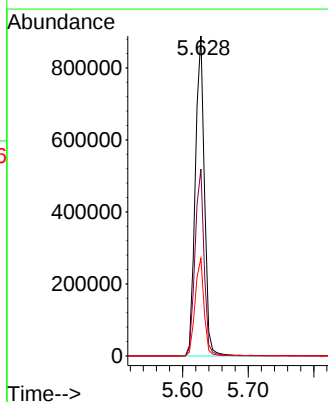
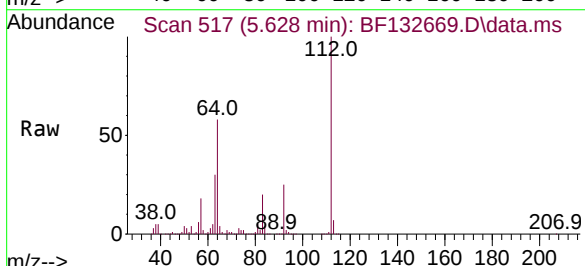
Manual Integrations  
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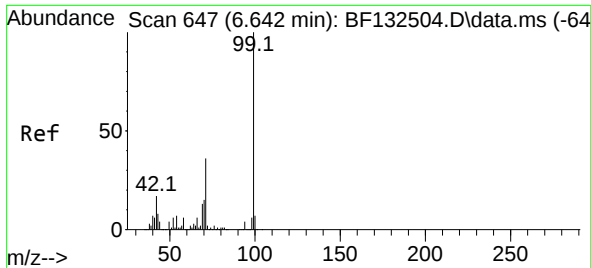
Reviewed By :Christian Giraldo 03/07/2023  
Supervised By :Jagrut Upadhyay 03/07/2023



#5  
2-Fluorophenol  
Concen: 95.883 ng  
RT: 5.628 min Scan# 517  
Delta R.T. -0.003 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00

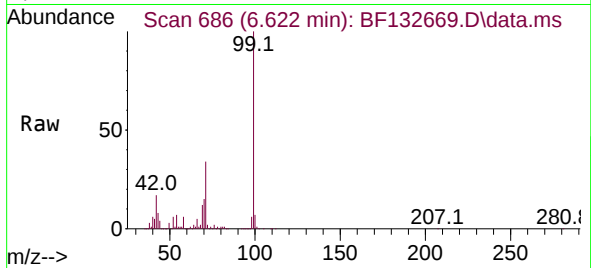
Tgt Ion:112 Resp: 861407  
Ion Ratio Lower Upper  
112 100  
64 58.4 51.6 77.4  
63 30.5 27.4 41.2





#7  
Phenol-d6  
Concen: 85.300 ng  
RT: 6.622 min Scan# 686  
Delta R.T. -0.015 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00

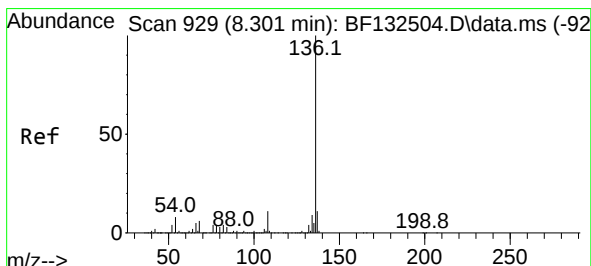
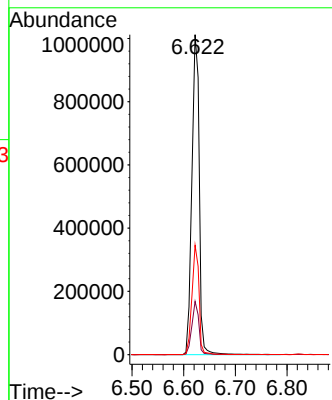
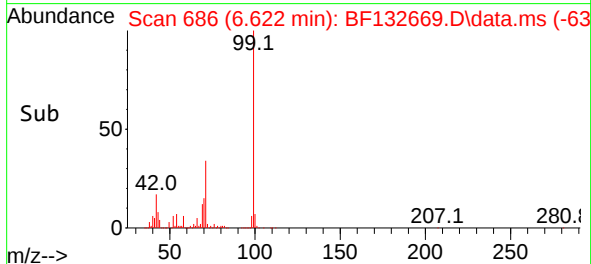
Instrument :  
BNA\_F  
ClientSampleId :  
PL-04-03032023



Tgt Ion: 99 Resp: 100013  
Ion Ratio Lower Upper  
99 100  
42 16.6 13.9 20.9  
71 34.2 28.5 42.7

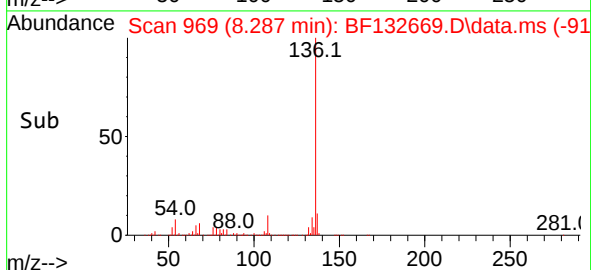
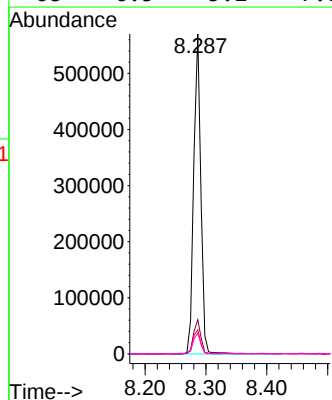
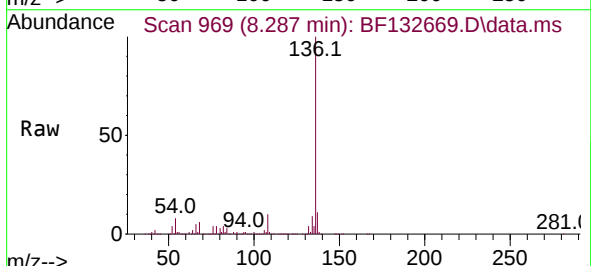
Manual Integrations  
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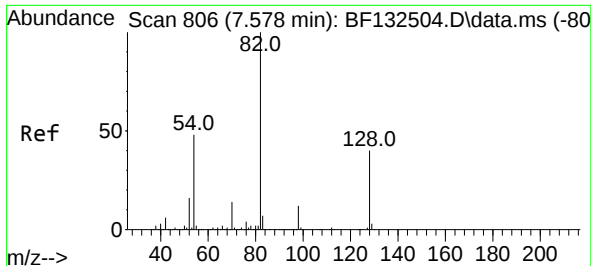
Reviewed By :Christian Giraldo 03/07/2023  
Supervised By :Jagrut Upadhyay 03/07/2023



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.287 min Scan# 969  
Delta R.T. -0.003 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00

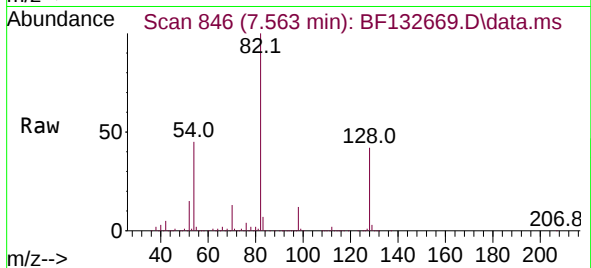
Tgt Ion:136 Resp: 461462  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.9 13.3  
54 7.5 6.2 9.4  
68 6.5 5.2 7.8





#23  
Nitrobenzene-d5  
Concen: 60.666 ng  
RT: 7.563 min Scan# 84  
Delta R.T. -0.009 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00

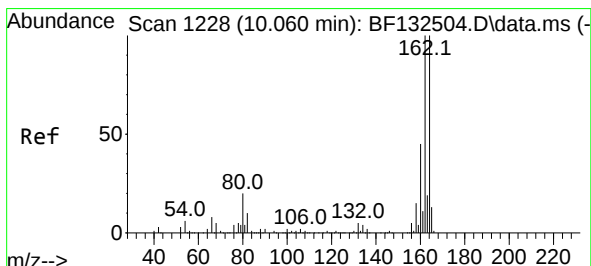
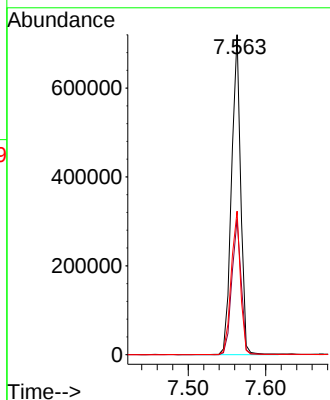
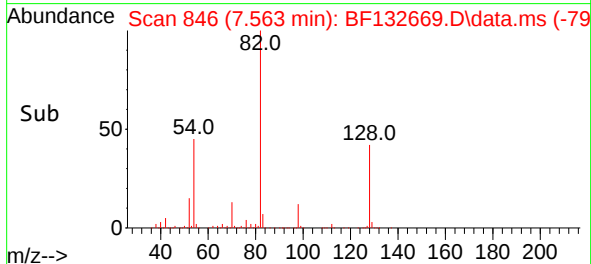
Instrument :  
BNA\_F  
ClientSampleId :  
PL-04-03032023



Tgt Ion: 82 Resp: 590052  
Ion Ratio Lower Upper  
82 100  
128 42.3 32.2 48.2  
54 44.8 38.4 57.6

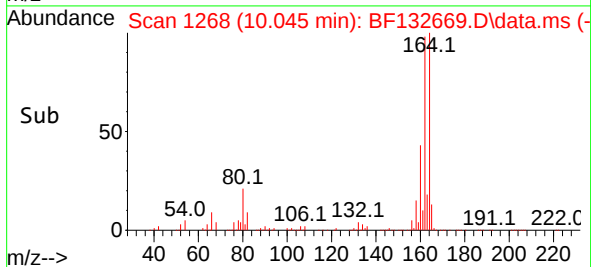
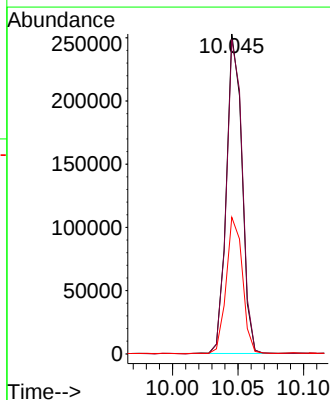
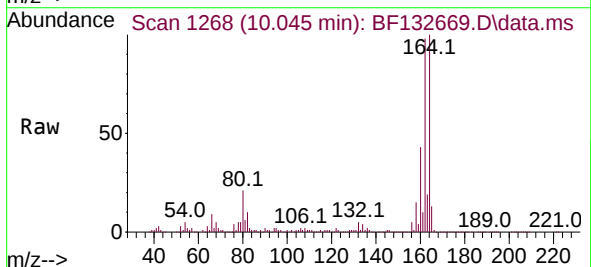
Manual Integrations  
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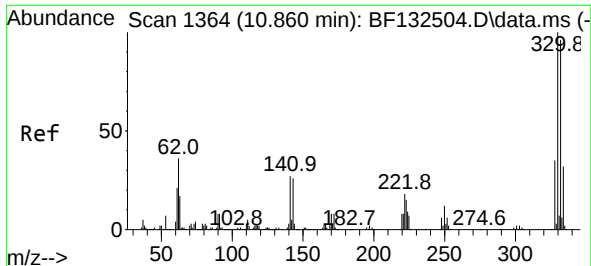
Reviewed By :Christian Giraldo 03/07/2023  
Supervised By :Jagrut Upadhyay 03/07/2023



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.045 min Scan# 1268  
Delta R.T. -0.009 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00

Tgt Ion:164 Resp: 208194  
Ion Ratio Lower Upper  
164 100  
162 98.2 79.8 119.8  
160 42.7 35.8 53.6





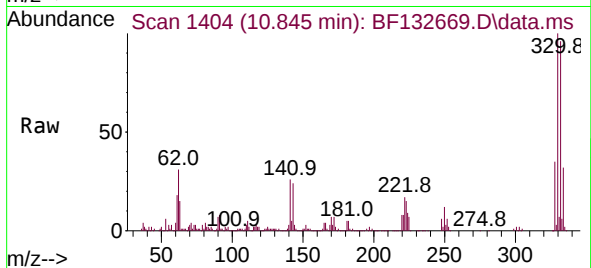
#42  
2,4,6-Tribromophenol  
Concen: 95.215 ng  
RT: 10.845 min Scan# 141  
Delta R.T. -0.003 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00

Instrument :

BNA\_F

ClientSampleId :

PL-04-03032023

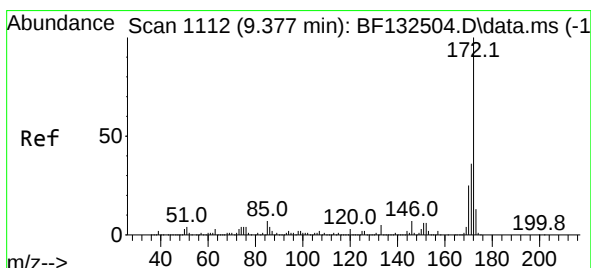
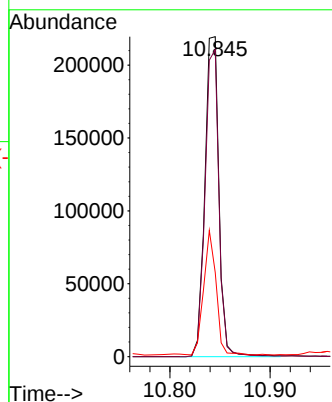
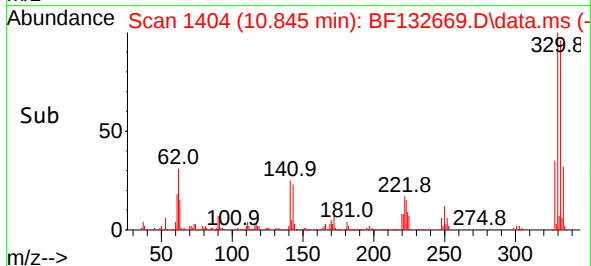


Tgt Ion:330 Resp: 214082  
Ion Ratio Lower Upper  
330 100  
332 95.1 76.2 114.4  
141 34.1 28.4 42.6

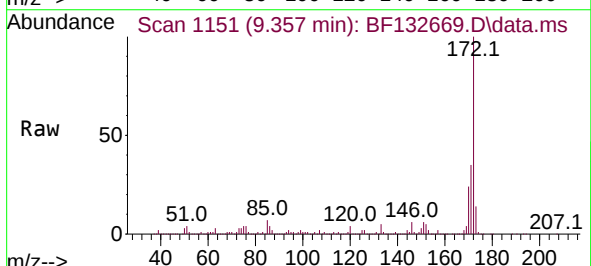
Manual Integrations

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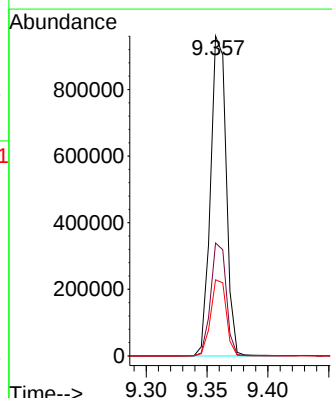
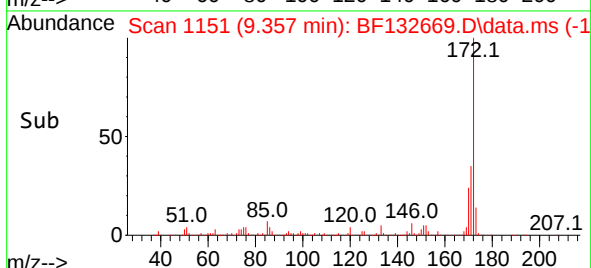
Reviewed By :Christian Giraldo 03/07/2023  
Supervised By :Jagrut Upadhyay 03/07/2023

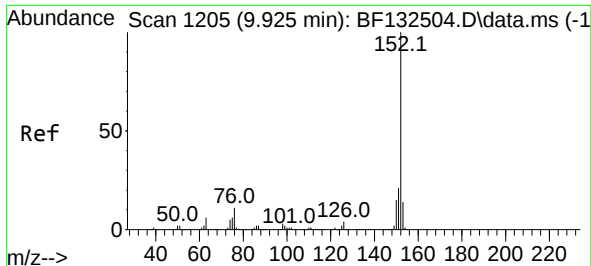


#45  
2-Fluorobiphenyl  
Concen: 63.021 ng  
RT: 9.357 min Scan# 1151  
Delta R.T. -0.015 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00



Tgt Ion:172 Resp: 861683  
Ion Ratio Lower Upper  
172 100  
171 35.3 28.8 43.2  
170 23.8 19.7 29.5





#49

Acenaphthylene

Concen: 9.154 ng

RT: 9.910 min Scan# 1205

Delta R.T. -0.009 min

Lab File: BF132669.D

Acq: 07 Mar 2023 02:00

Instrument :

BNA\_F

ClientSampleId :

PL-04-03032023

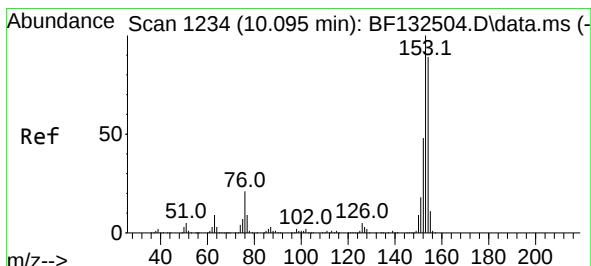
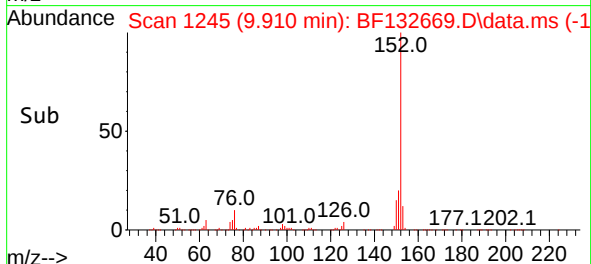
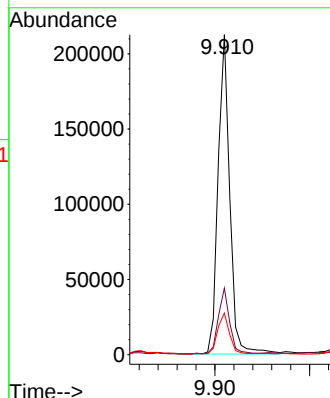
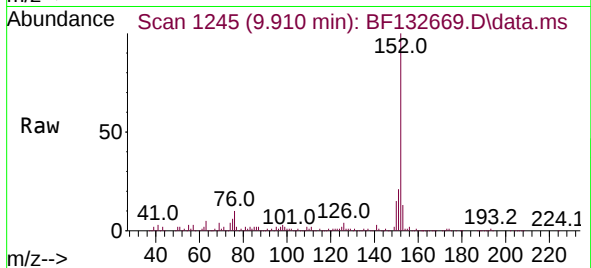
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|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 182018 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 20.8  | 16.4  | 24.6   |
| 153       | 13.0  | 11.0  | 16.6   |

Manual Integrations

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Supervised By :Jagrut Upadhyay 03/07/2023



#52

Acenaphthene

Concen: 3.731 ng

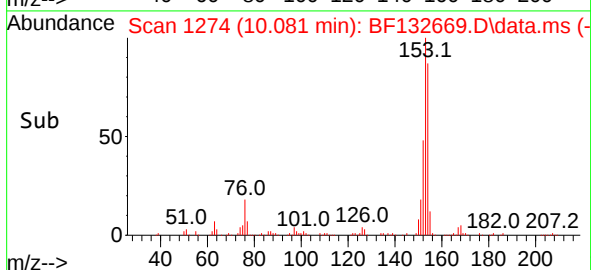
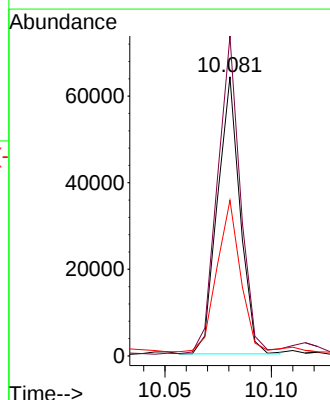
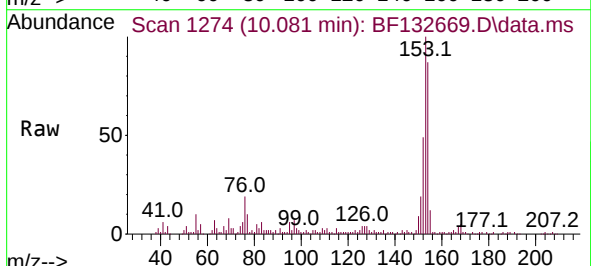
RT: 10.081 min Scan# 1274

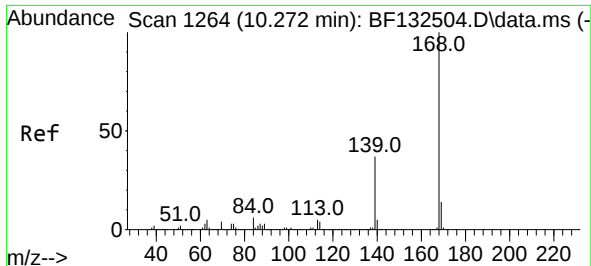
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Lab File: BF132669.D

Acq: 07 Mar 2023 02:00

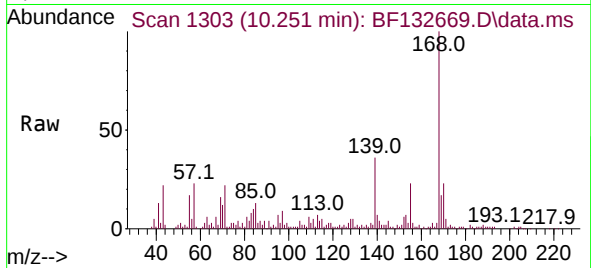
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 47107 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 114.6 | 89.8  | 134.8 |
| 152       | 55.7  | 43.3  | 64.9  |





#55  
Dibenzofuran  
Concen: 2.225 ng  
RT: 10.251 min Scan# 1303  
Delta R.T. -0.009 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00

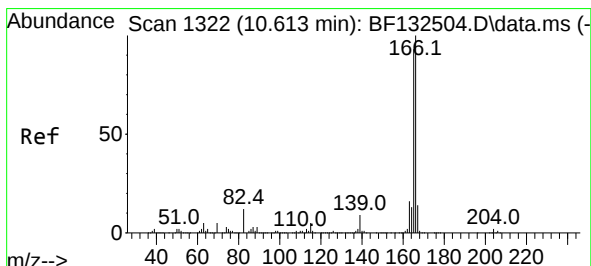
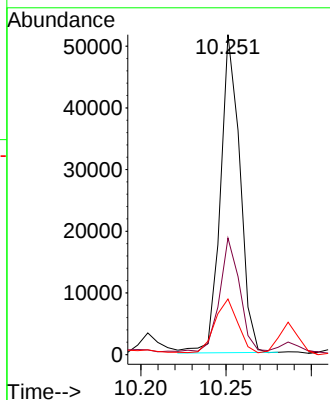
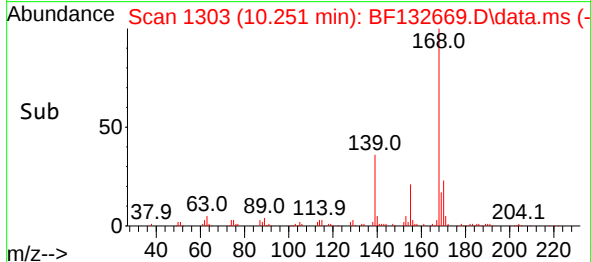
Instrument :  
BNA\_F  
ClientSampleId :  
PL-04-03032023



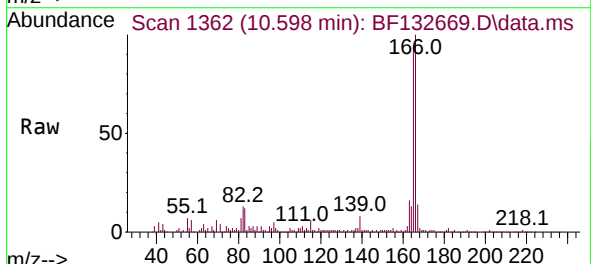
Tgt Ion:168 Resp: 40954  
Ion Ratio Lower Upper  
168 100  
139 36.4 29.8 44.6  
169 17.4 10.9 16.3

Manual Integrations  
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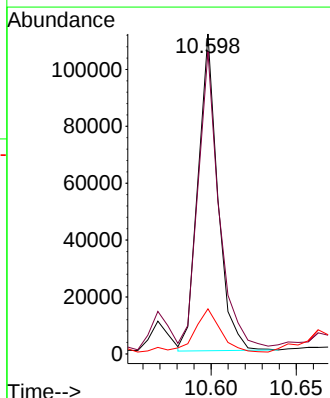
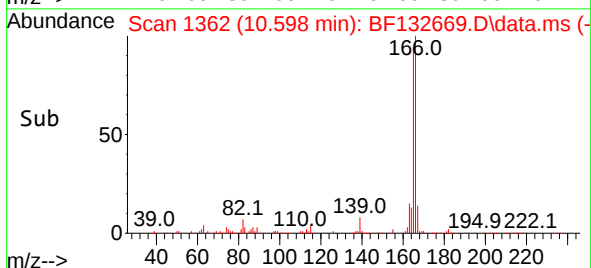
Reviewed By :Christian Giraldo 03/07/2023  
Supervised By :Jagrut Upadhyay 03/07/2023

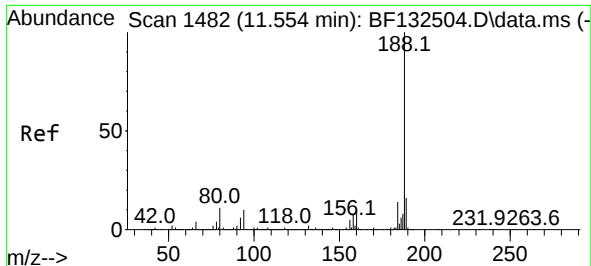


#58  
Fluorene  
Concen: 6.382 ng  
RT: 10.598 min Scan# 1362  
Delta R.T. -0.009 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00



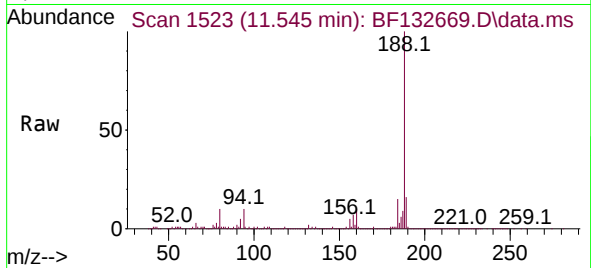
Tgt Ion:166 Resp: 89853  
Ion Ratio Lower Upper  
166 100  
165 94.4 74.2 111.4  
167 14.1 11.1 16.7





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.545 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00

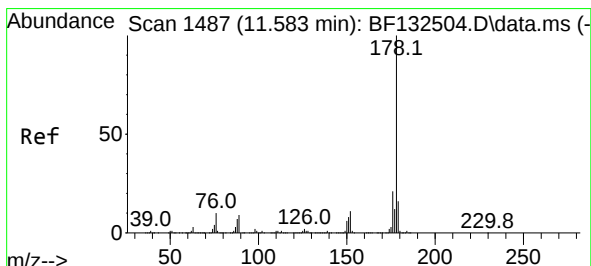
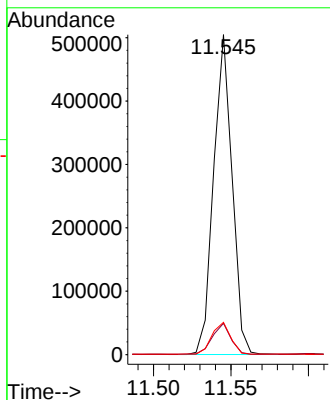
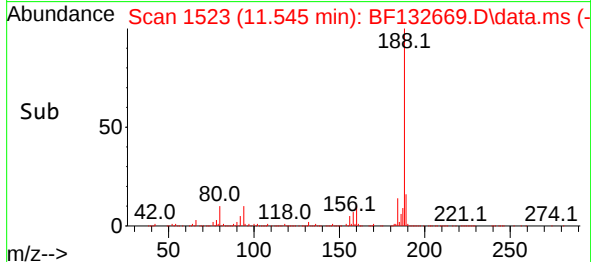
Instrument :  
BNA\_F  
ClientSampleId :  
PL-04-03032023



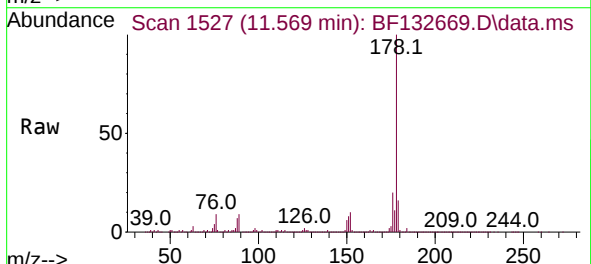
Tgt Ion:188 Resp: 418273  
Ion Ratio Lower Upper  
188 100  
94 9.8 8.3 12.5  
80 10.1 8.7 13.1

Manual Integrations  
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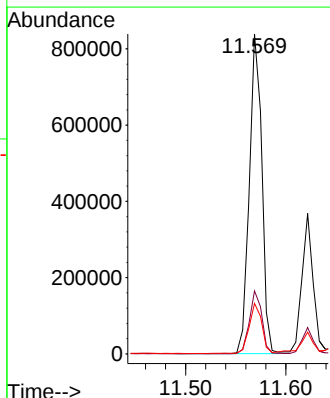
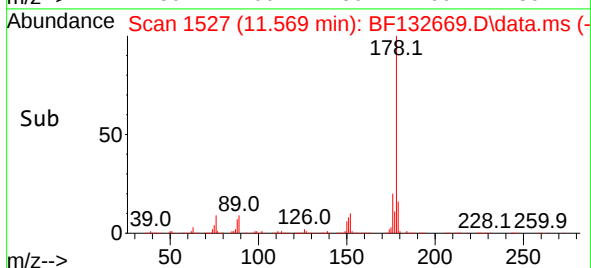
Reviewed By :Christian Giraldo 03/07/2023  
Supervised By :Jagrut Upadhyay 03/07/2023

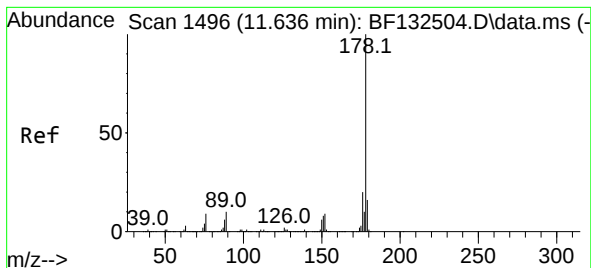


#71  
Phenanthrene  
Concen: 33.366 ng  
RT: 11.569 min Scan# 1527  
Delta R.T. -0.009 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00



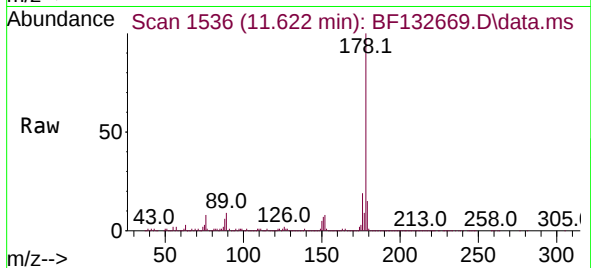
Tgt Ion:178 Resp: 722986  
Ion Ratio Lower Upper  
178 100  
176 19.7 16.5 24.7  
179 15.8 13.0 19.6





#72  
 Anthracene  
 Concen: 12.703 ng  
 RT: 11.622 min Scan# 1156  
 Delta R.T. -0.009 min  
 Lab File: BF132669.D  
 Acq: 07 Mar 2023 02:00

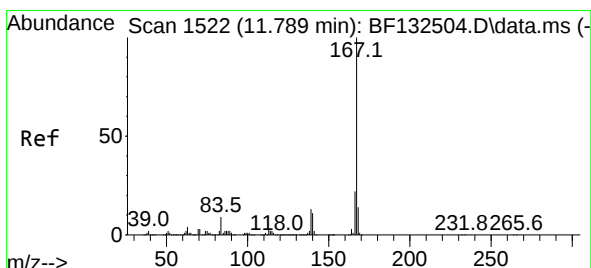
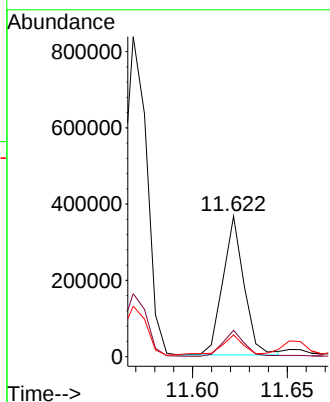
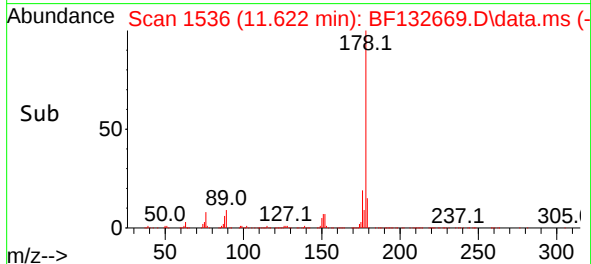
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-04-03032023



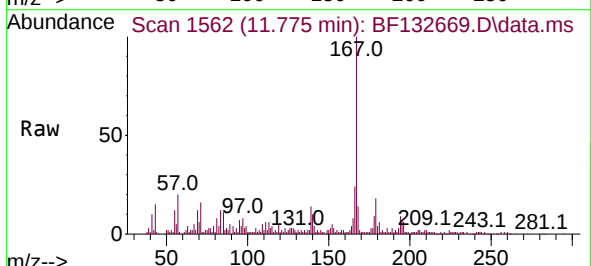
Tgt Ion:178 Resp: 28344  
 Ion Ratio Lower Upper  
 178 100  
 176 18.8 15.6 23.4  
 179 15.4 12.5 18.7

Manual Integrations  
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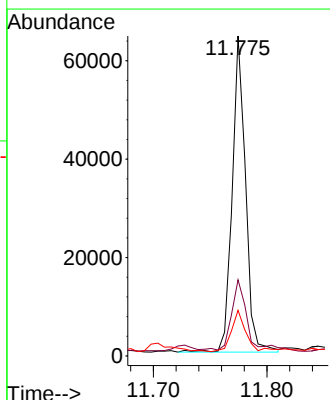
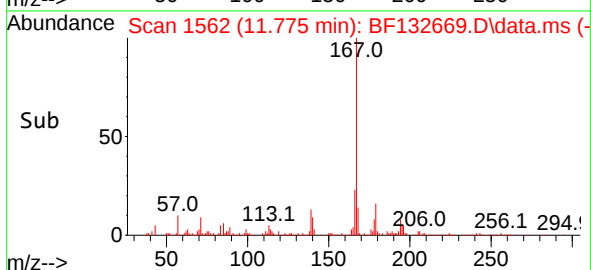
Reviewed By :Christian Giraldo 03/07/2023  
 Supervised By :Jagrut Upadhyay 03/07/2023

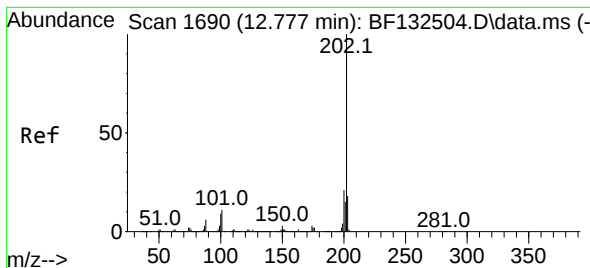


#73  
 Carbazole  
 Concen: 2.603 ng  
 RT: 11.775 min Scan# 1562  
 Delta R.T. -0.009 min  
 Lab File: BF132669.D  
 Acq: 07 Mar 2023 02:00



Tgt Ion:167 Resp: 52372  
 Ion Ratio Lower Upper  
 167 100  
 166 23.8 17.7 26.5  
 139 14.2 10.5 15.7





#75

Fluoranthene

Concen: 79.933 ng

RT: 12.774 min Scan# 1

Delta R.T. 0.003 min

Lab File: BF132669.D

Acq: 07 Mar 2023 02:00

Instrument :

BNA\_F

ClientSampleId :

PL-04-03032023

Tgt Ion:202 Resp: 1893463

Ion Ratio Lower Upper

202 100

101 9.9 0.0 31.4

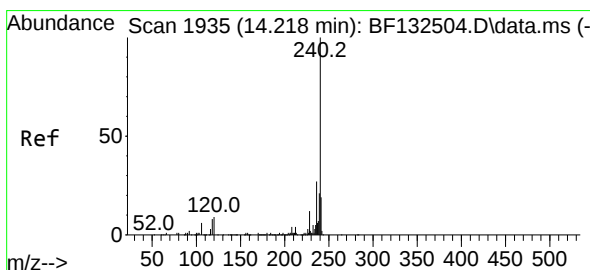
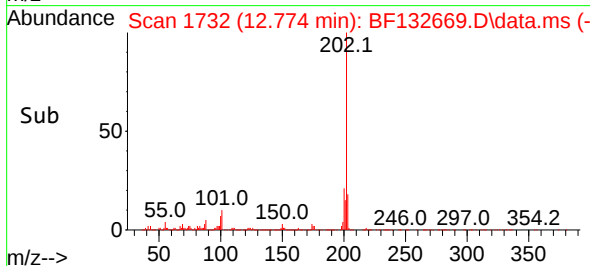
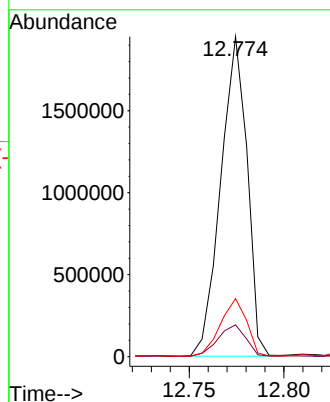
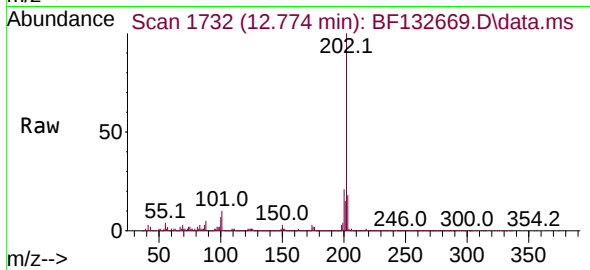
203 18.1 0.0 38.0

Manual Integrations

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Reviewed By :Christian Giraldo 03/07/2023

Supervised By :Jagrut Upadhyay 03/07/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.210 min Scan# 1976

Delta R.T. 0.003 min

Lab File: BF132669.D

Acq: 07 Mar 2023 02:00

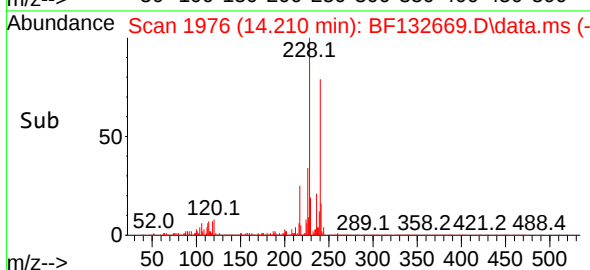
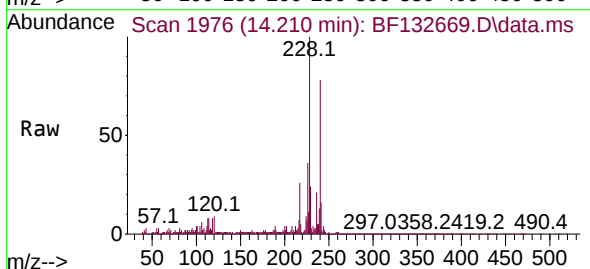
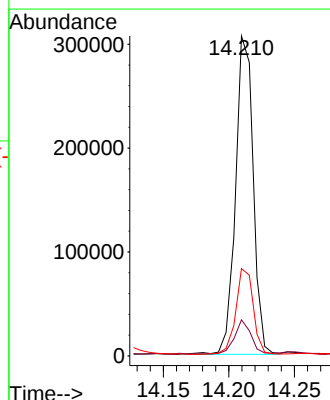
Tgt Ion:240 Resp: 286203

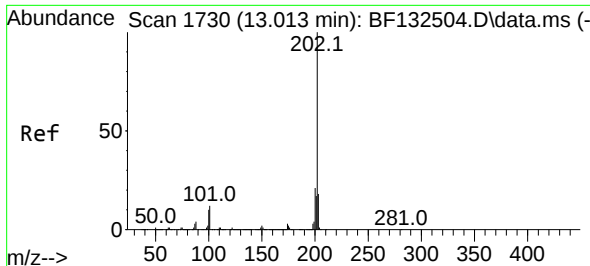
Ion Ratio Lower Upper

240 100

120 11.3 7.2 10.8#

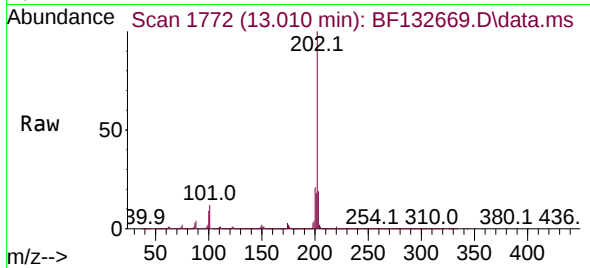
236 27.3 21.8 32.6





#78  
Pyrene  
Concen: 76.815 ng  
RT: 13.010 min Scan# 1730  
Delta R.T. 0.009 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00

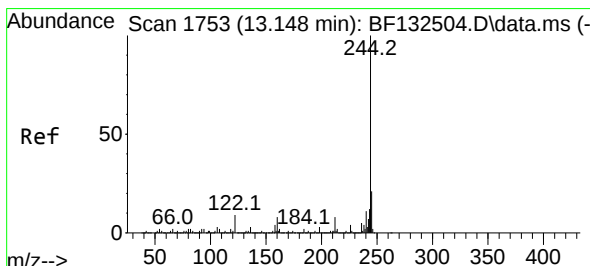
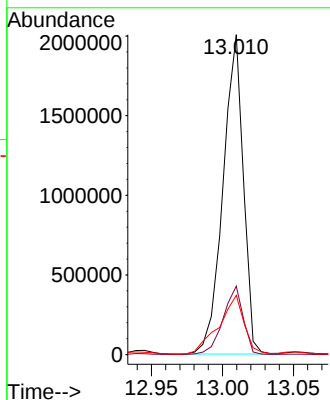
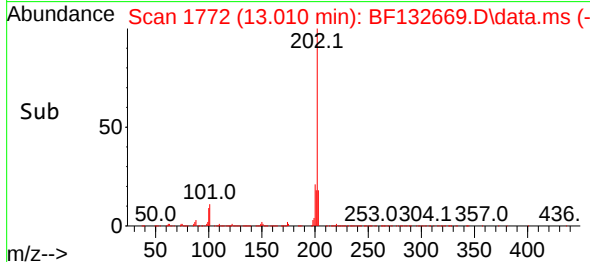
Instrument :  
BNA\_F  
ClientSampleId :  
PL-04-03032023



Tgt Ion:202 Resp: 1998793  
Ion Ratio Lower Upper  
202 100  
200 21.4 17.1 25.7  
203 18.5 14.6 21.8

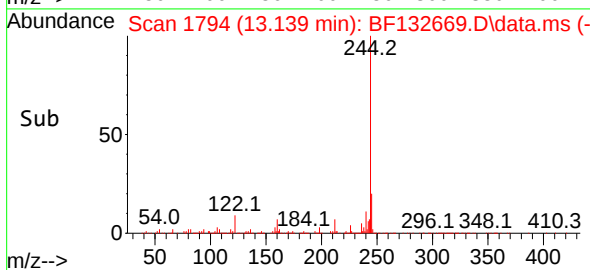
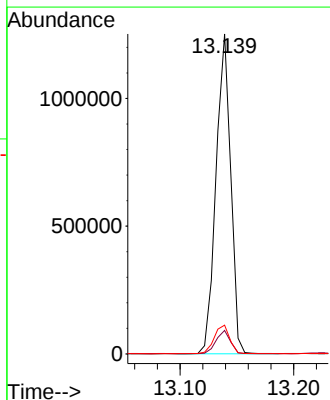
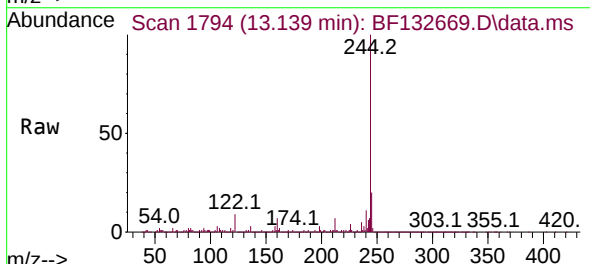
Manual Integrations  
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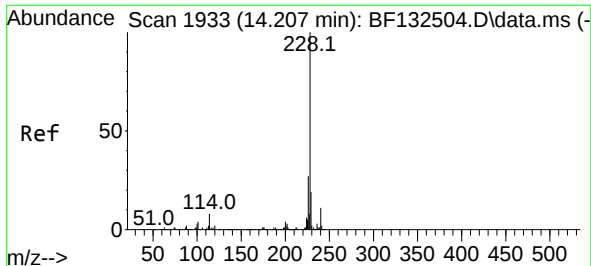
Reviewed By :Christian Giraldo 03/07/2023  
Supervised By :Jagrut Upadhyay 03/07/2023



#79  
Terphenyl-d14  
Concen: 66.284 ng  
RT: 13.139 min Scan# 1794  
Delta R.T. -0.003 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00

Tgt Ion:244 Resp: 1122031  
Ion Ratio Lower Upper  
244 100  
212 7.3 6.5 9.7  
122 9.0 7.5 11.3





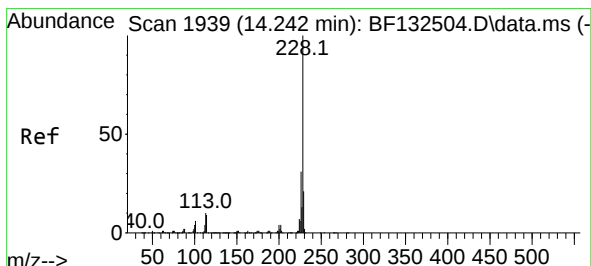
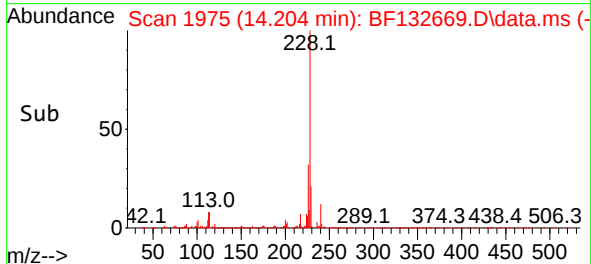
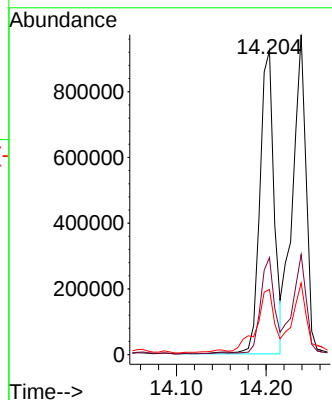
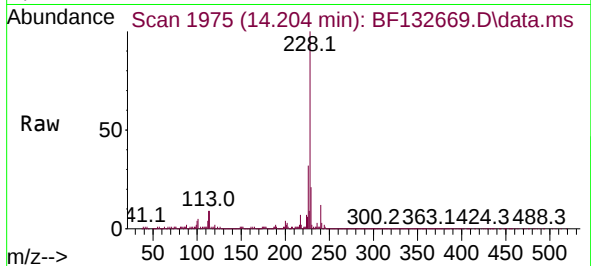
#81  
Benzo(a)anthracene  
Concen: 47.571 ng  
RT: 14.204 min Scan# 1933  
Delta R.T. 0.009 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00

Instrument :  
BNA\_F  
ClientSampleId :  
PL-04-03032023

Tgt Ion:228 Resp: 1018698  
Ion Ratio Lower Upper  
228 100  
226 31.9 21.7 32.5  
229 21.5 15.4 23.2

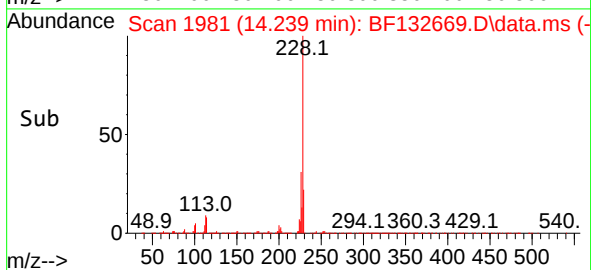
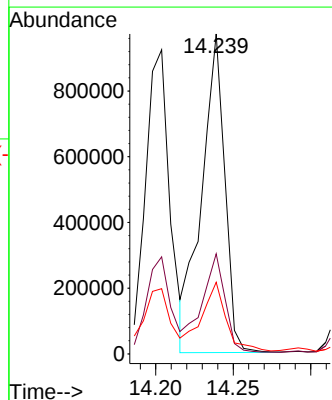
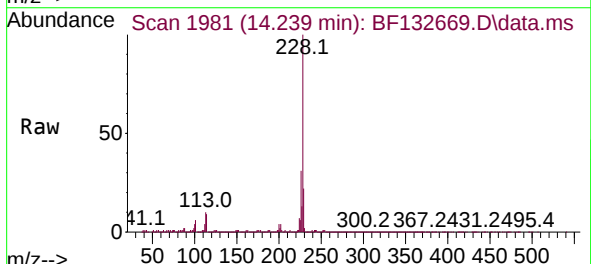
Manual Integrations  
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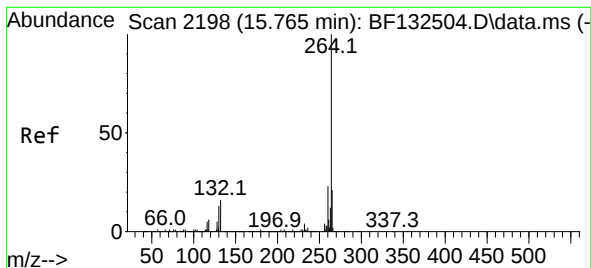
Reviewed By :Christian Giraldo 03/07/2023  
Supervised By :Jagrut Upadhyay 03/07/2023



#83  
Chrysene  
Concen: 50.684 ng  
RT: 14.239 min Scan# 1981  
Delta R.T. 0.003 min  
Lab File: BF132669.D  
Acq: 07 Mar 2023 02:00

Tgt Ion:228 Resp: 1014952  
Ion Ratio Lower Upper  
228 100  
226 31.3 25.0 37.6  
229 22.4 16.4 24.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.768 min Scan# 2198

Delta R.T. 0.015 min

Lab File: BF132669.D

Acq: 07 Mar 2023 02:00

Instrument :

BNA\_F

ClientSampleId :

PL-04-03032023

Tgt Ion:264 Resp: 217375

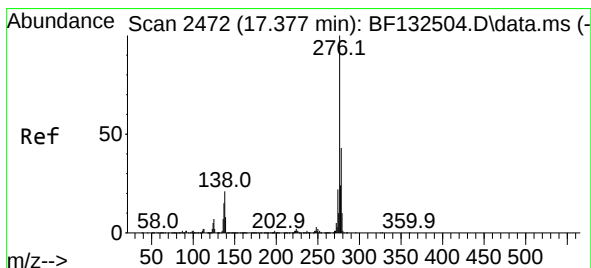
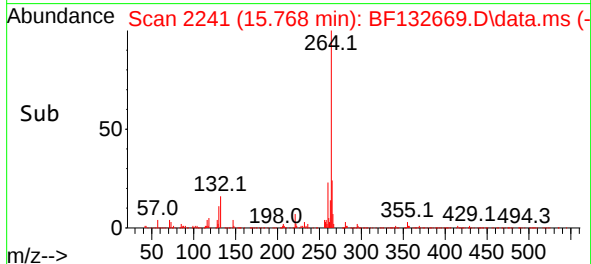
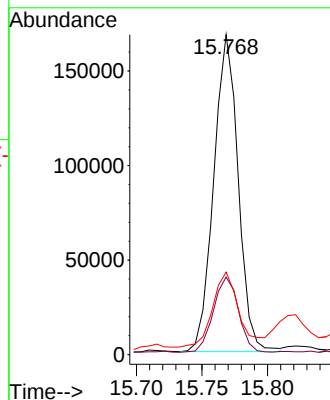
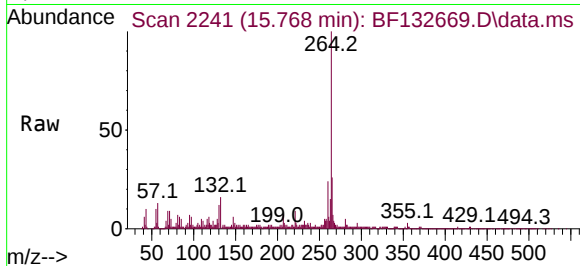
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.2  | 18.8  | 28.2  |
| 265 | 25.8  | 17.1  | 25.7  |

Manual Integrations

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Reviewed By :Christian Giraldo 03/07/2023

Supervised By :Jagrut Upadhyay 03/07/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 30.820 ng

RT: 17.374 min Scan# 2514

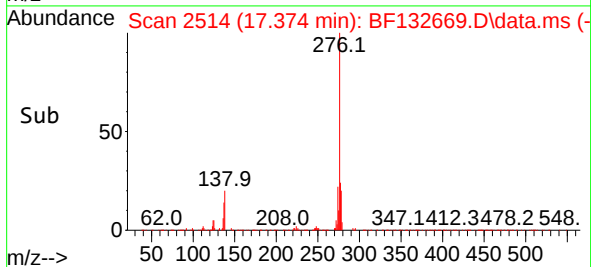
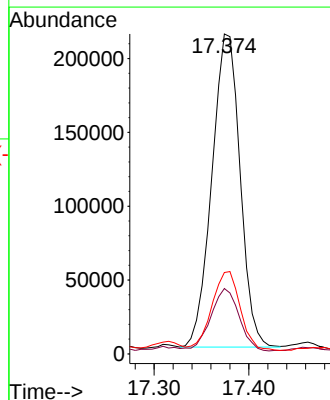
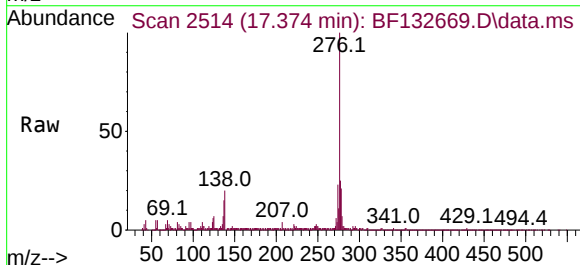
Delta R.T. 0.015 min

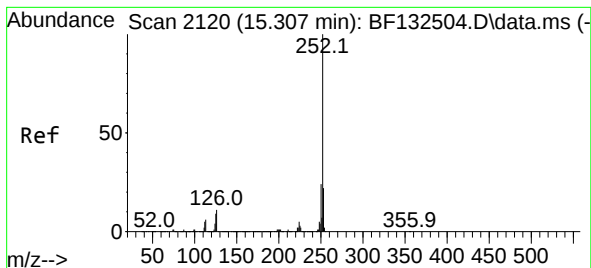
Lab File: BF132669.D

Acq: 07 Mar 2023 02:00

Tgt Ion:276 Resp: 438979

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 20.2  | 19.0  | 28.4  |
| 277 | 25.4  | 20.0  | 30.0  |





#88

Benzo(b)fluoranthene

Concen: 66.715 ng m

RT: 15.304 min Scan# 2116

Delta R.T. 0.009 min

Lab File: BF132669.D

Acq: 07 Mar 2023 02:00

Instrument :

BNA\_F

ClientSampleId :

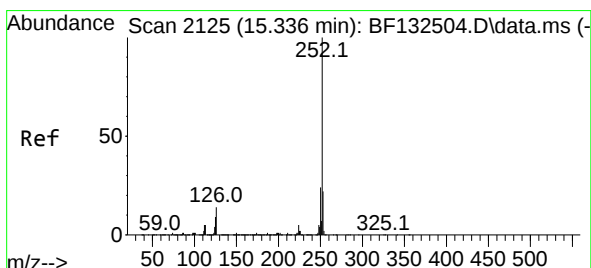
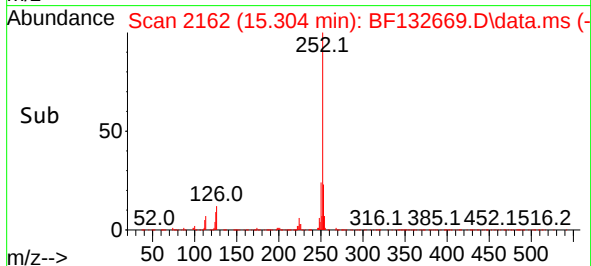
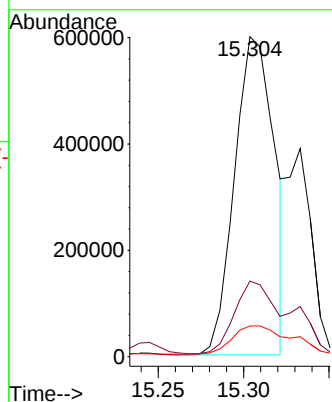
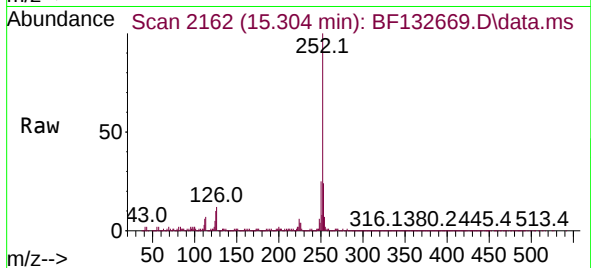
PL-04-03032023

Tgt Ion:252 Resp: 971876  
 Ion Ratio Lower Upper  
 252 100  
 253 23.6 17.4 26.0  
 125 9.6 7.0 10.6

Manual Integrations

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Reviewed By :Christian Giraldo 03/07/2023  
 Supervised By :Jagrut Upadhyay 03/07/2023



#89

Benzo(k)fluoranthene

Concen: 26.346 ng m

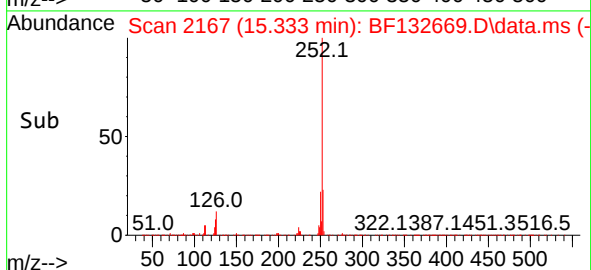
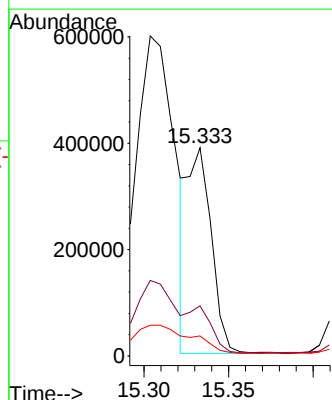
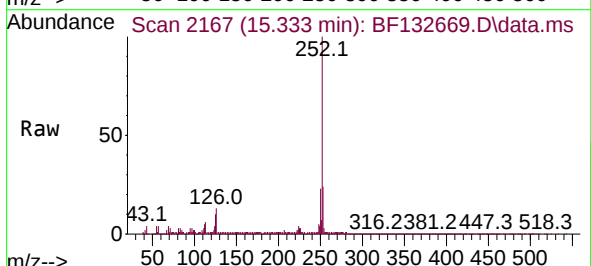
RT: 15.333 min Scan# 2167

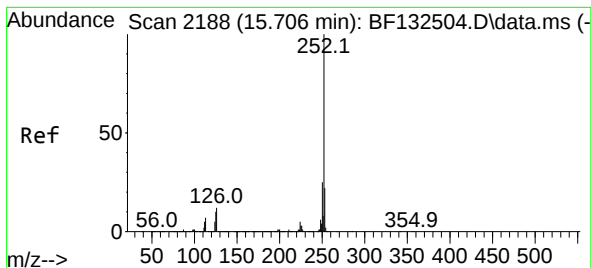
Delta R.T. 0.009 min

Lab File: BF132669.D

Acq: 07 Mar 2023 02:00

Tgt Ion:252 Resp: 375611  
 Ion Ratio Lower Upper  
 252 100  
 253 24.0 17.5 26.3  
 125 9.6 7.2 10.8





#90

Benzo(a)pyrene

Concen: 51.768 ng

RT: 15.704 min Scan# 2188

Delta R.T. 0.015 min

Lab File: BF132669.D

Acq: 07 Mar 2023 02:00

Instrument :

BNA\_F

ClientSampleId :

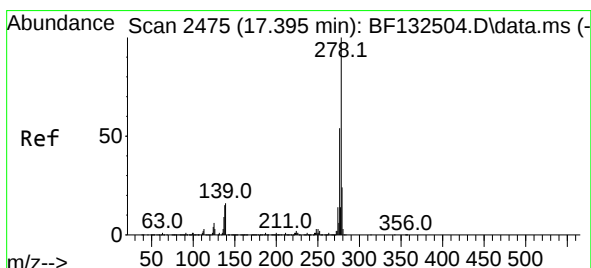
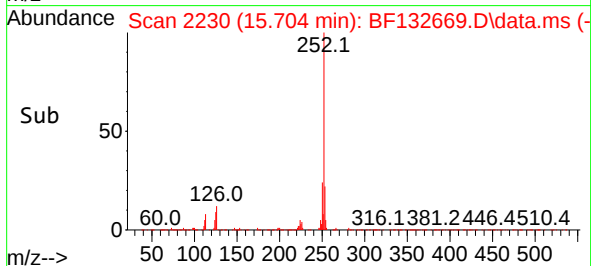
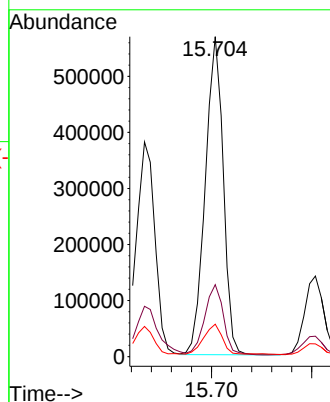
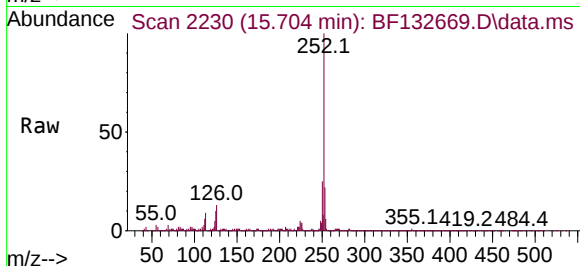
PL-04-03032023

Tgt Ion:252 Resp: 705795  
 Ion Ratio Lower Upper  
 252 100  
 253 22.5 17.2 25.8  
 125 10.1 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/07/2023  
 Supervised By :Jagrut Upadhyay 03/07/2023



#91

Dibenzo(a,h)anthracene

Concen: 10.219 ng

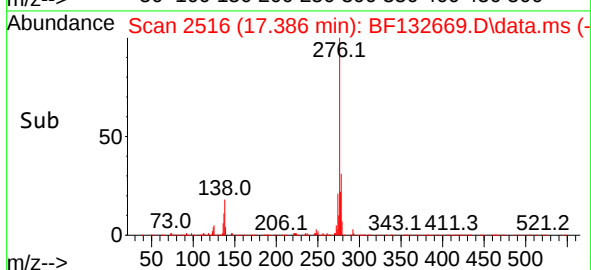
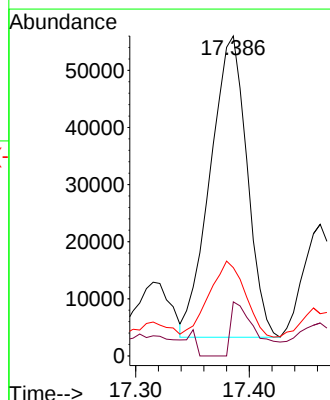
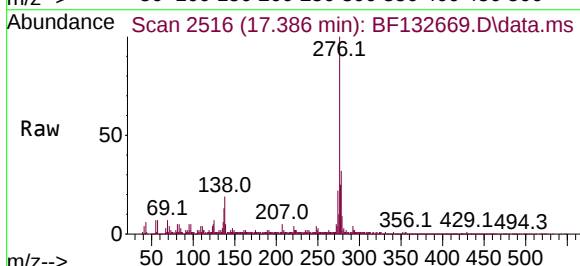
RT: 17.386 min Scan# 2516

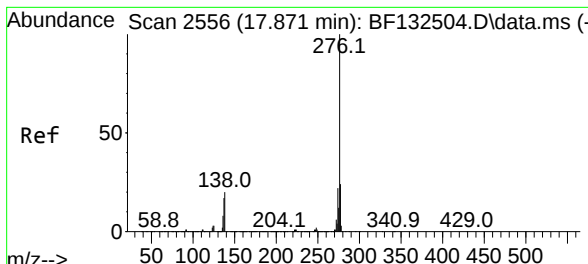
Delta R.T. 0.009 min

Lab File: BF132669.D

Acq: 07 Mar 2023 02:00

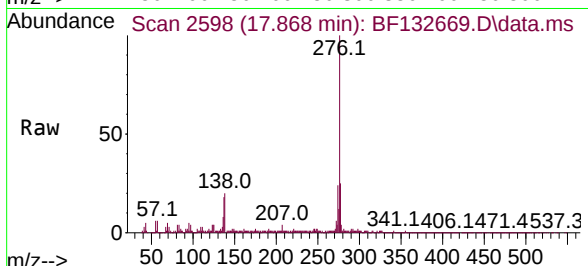
Tgt Ion:278 Resp: 118595  
 Ion Ratio Lower Upper  
 278 100  
 139 16.9 13.0 19.4  
 279 27.6 19.0 28.4





#92  
 Benzo(g,h,i)perylene  
 Concen: 34.826 ng  
 RT: 17.868 min Scan# 2556  
 Delta R.T. 0.015 min  
 Lab File: BF132669.D  
 Acq: 07 Mar 2023 02:00

Instrument : BNA\_F  
 ClientSampleId : PL-04-03032023



Tgt Ion: 276 Resp: 450731

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 24.7  | 18.9  | 28.3  |
| 138 | 20.5  | 16.2  | 24.4  |

Manual Integrations  
**APPROVED**  
 Reviewed By : Christian Giraldo 03/07/2023  
 Supervised By : Jagrut Upadhyay 03/07/2023

