

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
 Data File : BF133716.D  
 Acq On : 12 Jun 2023 21:47  
 Operator : CG\JU  
 Sample : 03044-06  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-03-5.0-7.0

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/13/2023  
 Supervised By :mohammad ahmed 06/13/2023

Quant Time: Jun 12 22:35:09 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 12 16:32:43 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.834  | 152  | 62753    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.116  | 136  | 213655   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.875  | 164  | 97785    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.363 | 188  | 199724   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.010 | 240  | 111445   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.480 | 264  | 98560    | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.445  | 112  | 266679   | 73.982 | ng    | 0.00     |
| 7) Phenol-d6                | 6.457  | 99   | 314721   | 67.076 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.392  | 82   | 194199   | 49.507 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.663 | 330  | 86849    | 70.165 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.192  | 172  | 365659   | 53.156 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.951 | 244  | 395615   | 54.929 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 52) Acenaphthene            | 9.904  | 154  | 16718    | 2.901  | ng    | 93       |
| 58) Fluorene                | 10.422 | 166  | 21448    | 3.189  | ng    | 97       |
| 71) Phenanthrene            | 11.386 | 178  | 343313   | 33.881 | ng    | 99       |
| 72) Anthracene              | 11.439 | 178  | 120898   | 11.443 | ng    | 98       |
| 73) Carbazole               | 11.592 | 167  | 35625    | 3.620  | ng    | 97       |
| 75) Fluoranthene            | 12.580 | 202  | 683636   | 63.532 | ng    | 98       |
| 78) Pyrene                  | 12.816 | 202  | 610209   | 58.778 | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.004 | 228  | 268098   | 34.779 | ng    | 96       |
| 83) Chrysene                | 14.039 | 228  | 222889   | 30.570 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.945 | 276  | 99100    | 14.615 | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.051 | 252  | 225669m  | 37.693 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.074 | 252  | 75341m   | 12.918 | ng    |          |
| 90) Benzo(a)pyrene          | 15.415 | 252  | 184117   | 33.135 | ng    | 96       |
| 91) Dibenzo(a,h)anthracene  | 16.956 | 278  | 24807    | 4.419  | ng    | # 65     |
| 92) Benzo(g,h,i)perylene    | 17.398 | 276  | 108720   | 19.534 | ng    | 97       |
| -----                       |        |      |          |        |       |          |

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

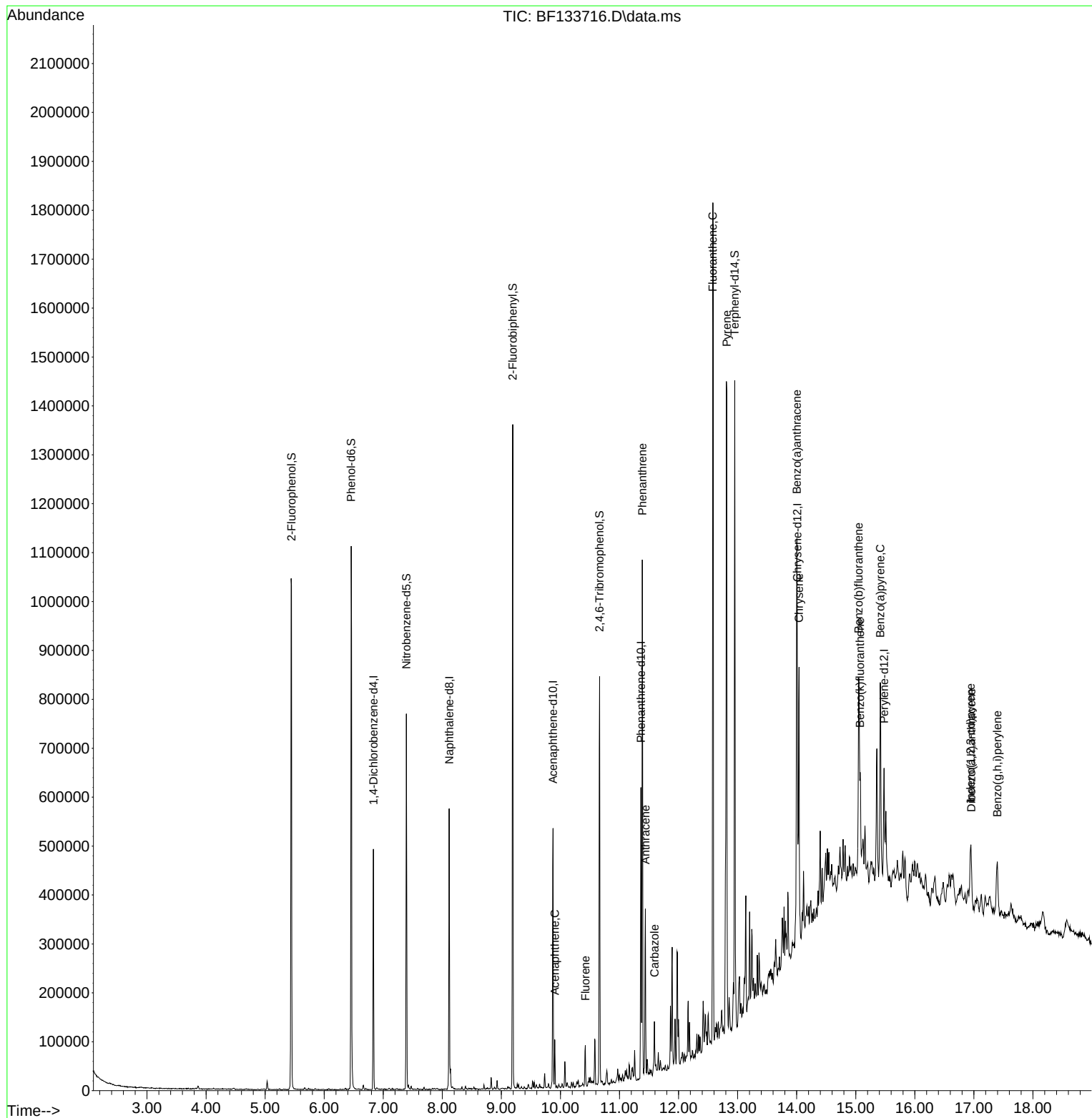
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061223\  
Data File : BF133716.D  
Acq On : 12 Jun 2023 21:47  
Operator : CG\JU  
Sample : 03044-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

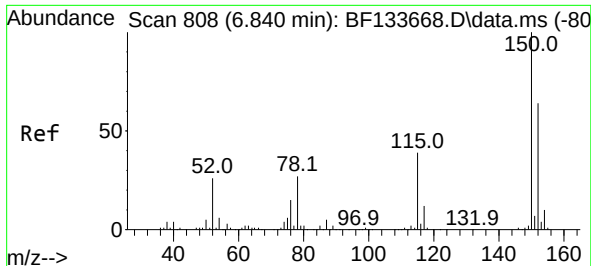
Instrument :  
BNA\_F  
ClientSampleId :  
SB-03-5.0-7.0

Quant Time: Jun 12 22:35:09 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 12 16:32:43 2023  
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Supervised By :mohammad ahmed 06/13/2023





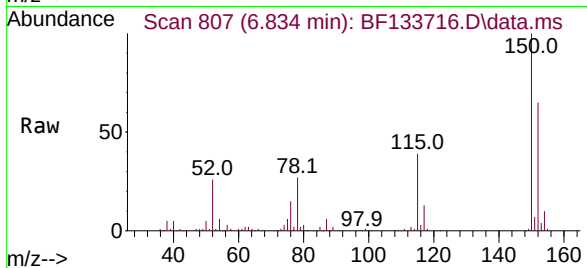
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.834 min Scan# 808  
Delta R.T. -0.000 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47

Instrument :

BNA\_F

ClientSampleId :

SB-03-5.0-7.0

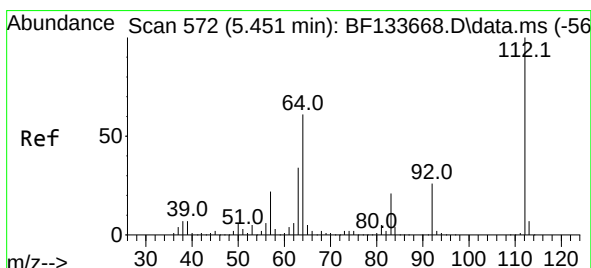
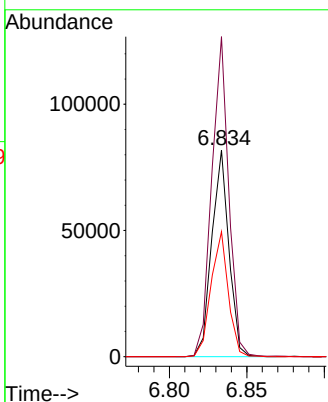
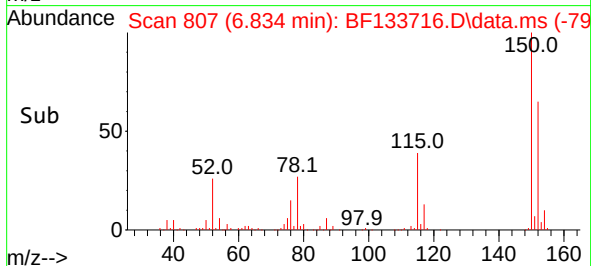


Tgt Ion:152 Resp: 6275  
Ion Ratio Lower Upper  
152 100  
150 154.9 124.3 186.5  
115 60.5 48.5 72.7

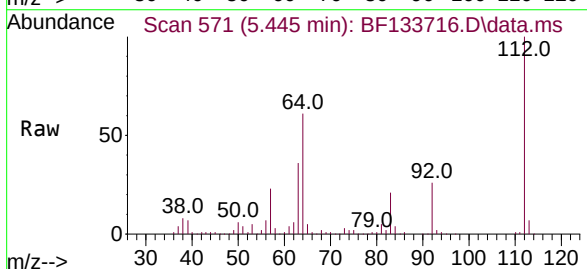
Manual Integrations

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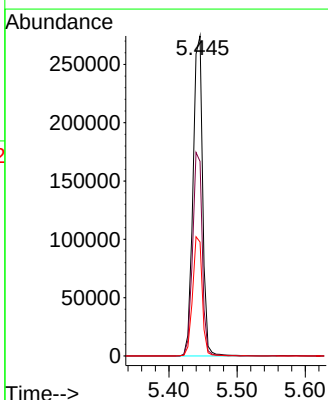
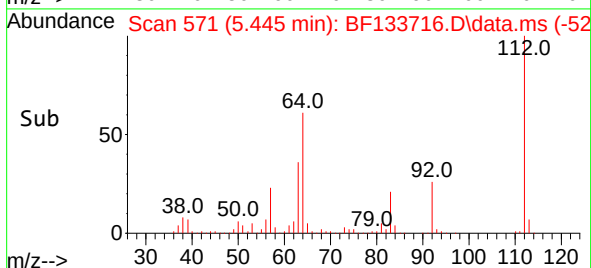
Reviewed By :Yogesh Patel 06/13/2023  
Supervised By :mohammad ahmed 06/13/2023

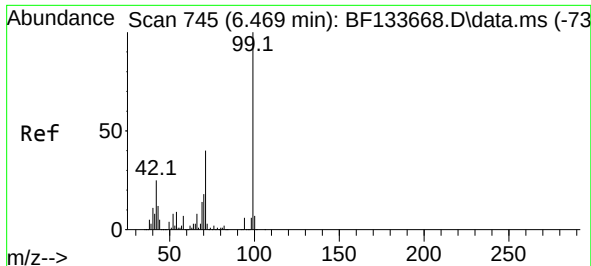


#5  
2-Fluorophenol  
Concen: 73.982 ng  
RT: 5.445 min Scan# 571  
Delta R.T. -0.000 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47



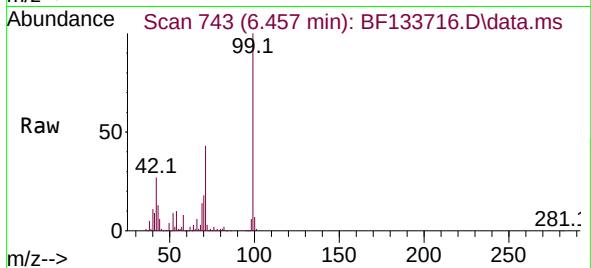
Tgt Ion:112 Resp: 266679  
Ion Ratio Lower Upper  
112 100  
64 60.8 49.0 73.4  
63 35.6 26.8 40.2





#7  
Phenol-d6  
Concen: 67.076 ng  
RT: 6.457 min Scan# 74  
Delta R.T. -0.012 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47

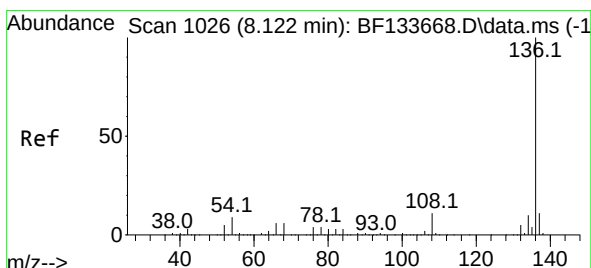
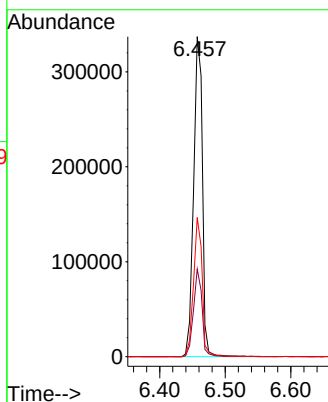
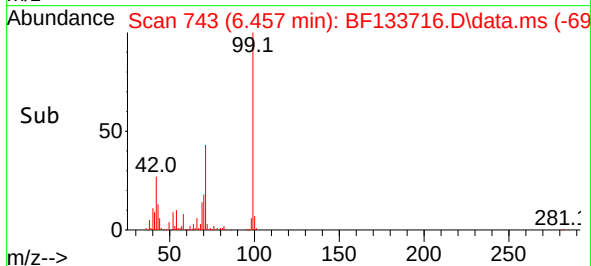
Instrument :  
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ClientSampleId :  
SB-03-5.0-7.0



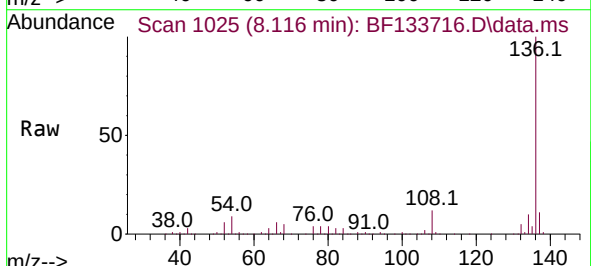
Tgt Ion: 99 Resp: 31472  
Ion Ratio Lower Upper  
99 100  
42 27.4 19.9 29.9  
71 43.5 32.2 48.4

Manual Integrations  
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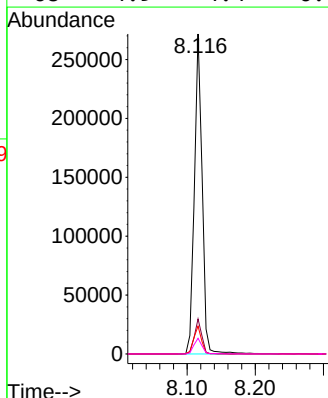
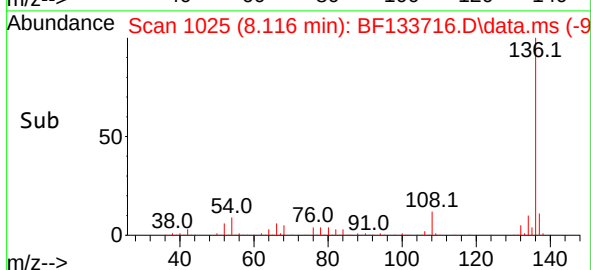
Reviewed By :Yogesh Patel 06/13/2023  
Supervised By :mohammad ahmed 06/13/2023

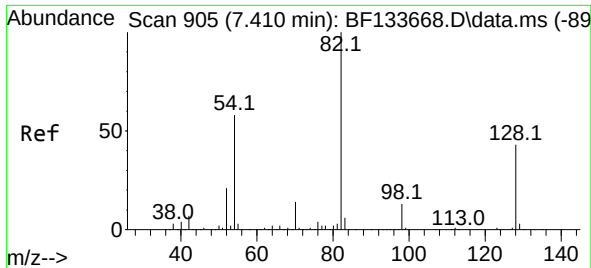


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.116 min Scan# 1025  
Delta R.T. -0.006 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47



Tgt Ion:136 Resp: 213655  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.8 13.2  
54 8.7 7.4 11.0  
68 4.9 4.4 6.6





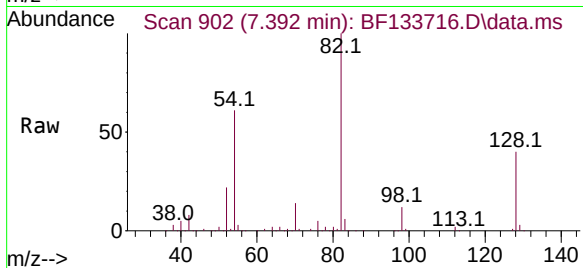
#23  
Nitrobenzene-d5  
Concen: 49.507 ng  
RT: 7.392 min Scan# 905  
Delta R.T. -0.012 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47

Instrument :

BNA\_F

ClientSampleId :

SB-03-5.0-7.0

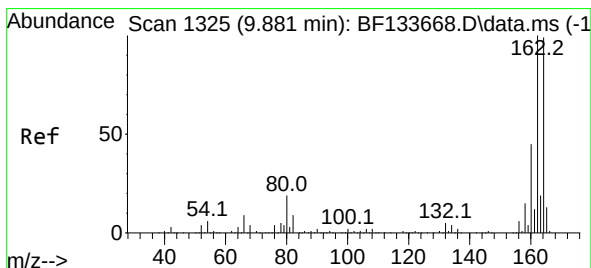
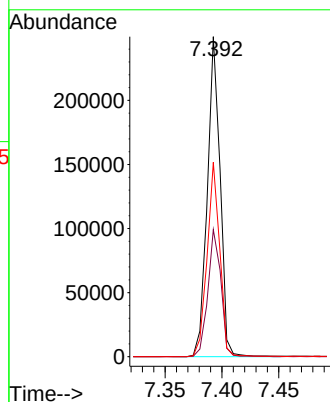
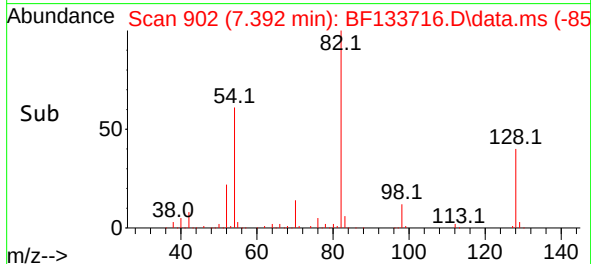


Tgt Ion: 82 Resp: 194199  
Ion Ratio Lower Upper  
82 100  
128 39.7 34.2 51.2  
54 60.8 46.5 69.7

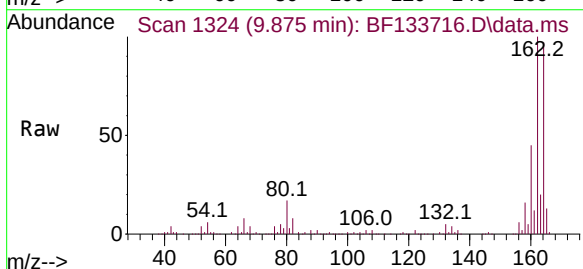
Manual Integrations

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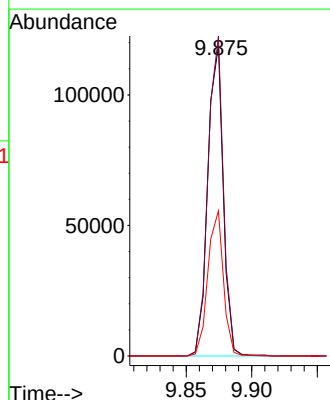
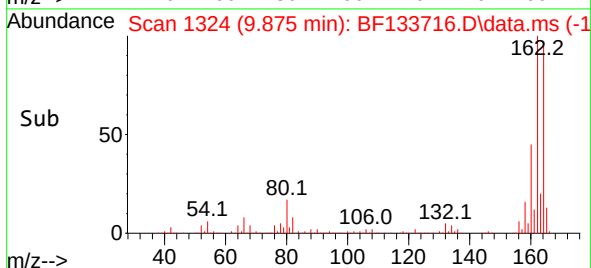
Reviewed By :Yogesh Patel 06/13/2023  
Supervised By :mohammad ahmed 06/13/2023

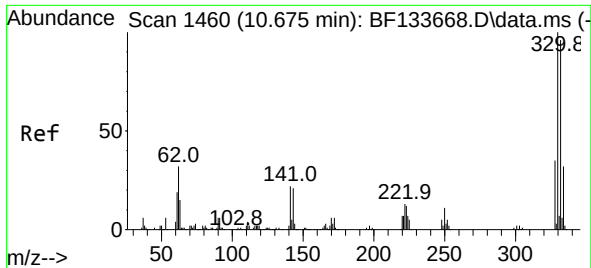


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.875 min Scan# 1324  
Delta R.T. 0.000 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47



Tgt Ion:164 Resp: 97785  
Ion Ratio Lower Upper  
164 100  
162 103.1 80.8 121.2  
160 46.8 36.7 55.1





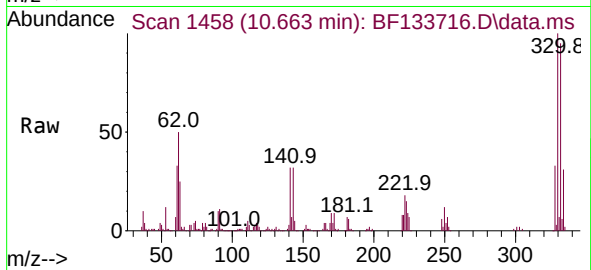
#42  
2,4,6-Tribromophenol  
Concen: 70.165 ng  
RT: 10.663 min Scan# 1460  
Delta R.T. -0.006 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47

Instrument :

BNA\_F

ClientSampleId :

SB-03-5.0-7.0



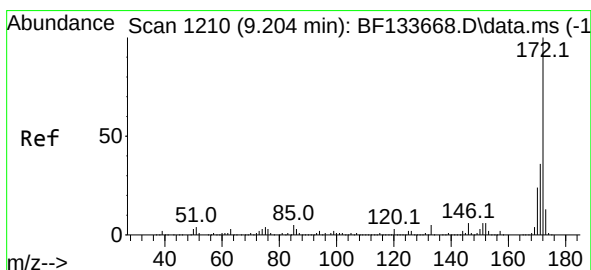
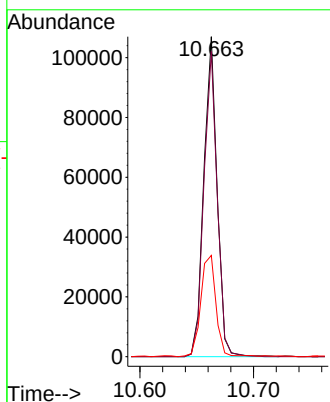
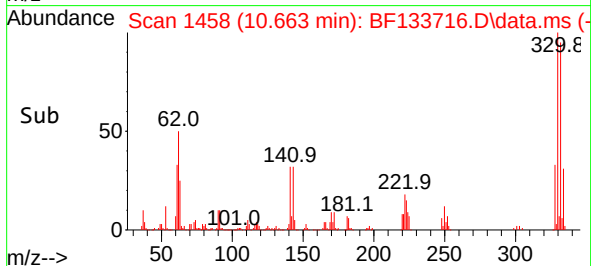
Tgt Ion: 330 Resp: 86849  
Ion Ratio Lower Upper  
330 100  
332 95.8 77.2 115.8  
141 36.5 24.9 37.3

Manual Integrations

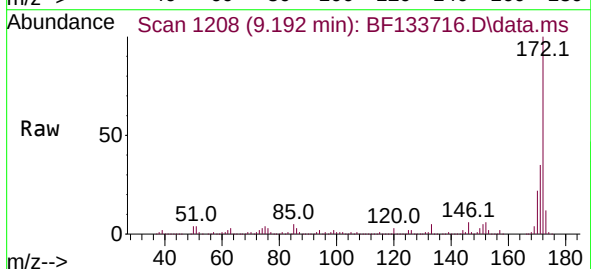
APPROVED

Reviewed By : Yogesh Patel 06/13/2023

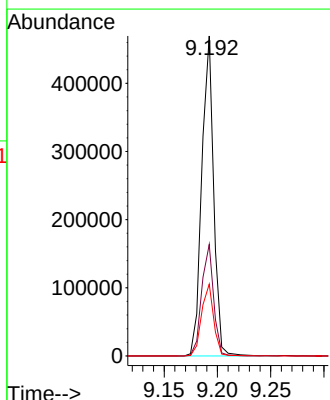
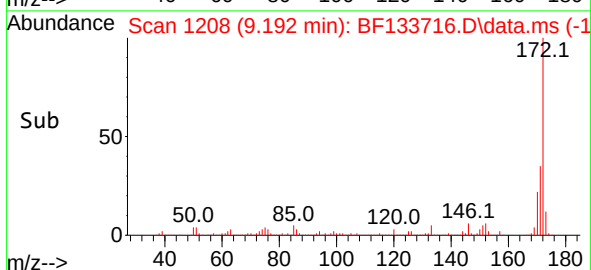
Supervised By : mohammad ahmed 06/13/2023

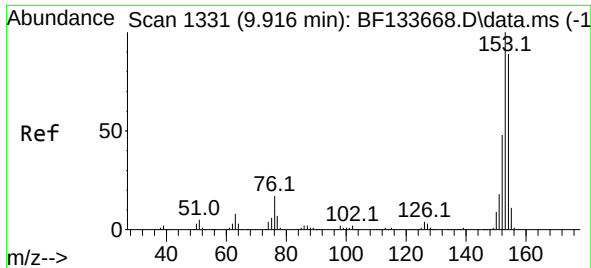


#45  
2-Fluorobiphenyl  
Concen: 53.156 ng  
RT: 9.192 min Scan# 1208  
Delta R.T. -0.006 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47



Tgt Ion: 172 Resp: 365659  
Ion Ratio Lower Upper  
172 100  
171 34.9 28.6 43.0  
170 22.5 19.1 28.7





#52  
Acenaphthene  
Concen: 2.901 ng  
RT: 9.904 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47

Instrument :

BNA\_F

ClientSampleId :

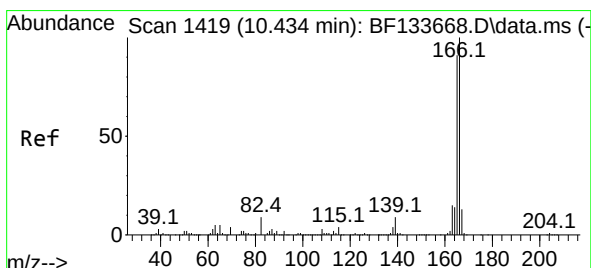
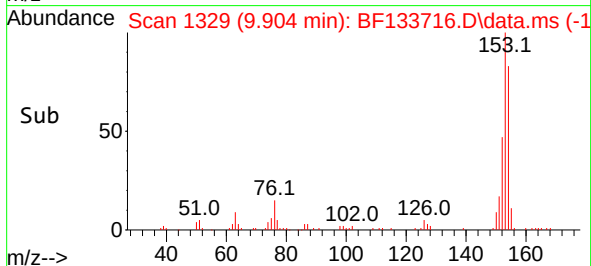
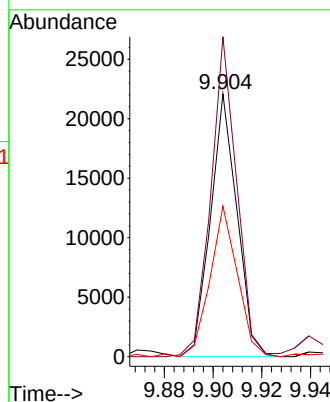
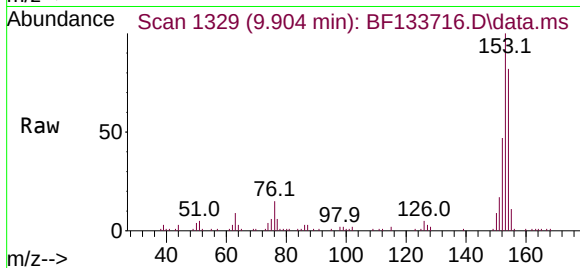
SB-03-5.0-7.0

Tgt Ion:154 Resp: 16718  
Ion Ratio Lower Upper  
154 100  
153 121.7 89.8 134.8  
152 57.3 43.4 65.2

Manual Integrations

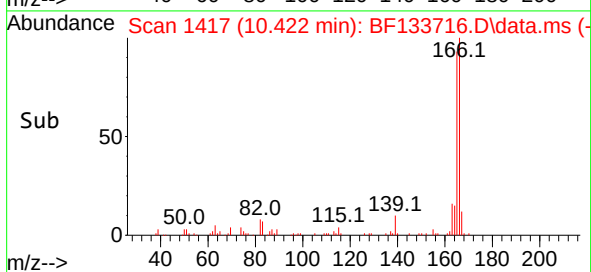
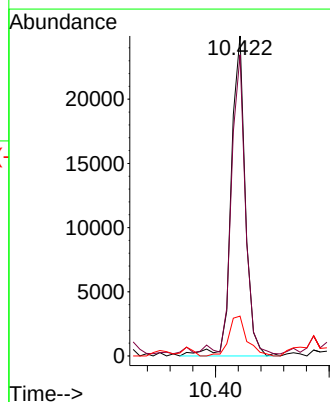
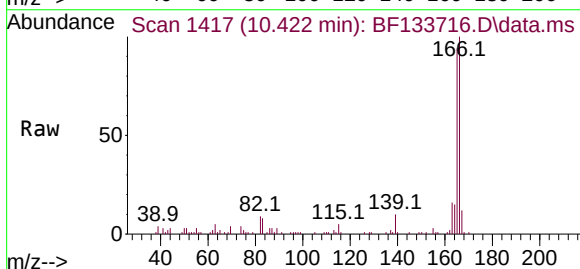
APPROVED

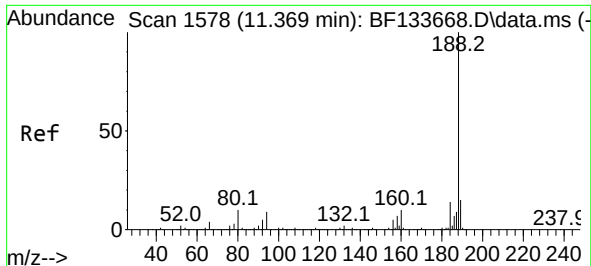
Reviewed By :Yogesh Patel 06/13/2023  
Supervised By :mohammad ahmed 06/13/2023



#58  
Fluorene  
Concen: 3.189 ng  
RT: 10.422 min Scan# 1417  
Delta R.T. -0.006 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47

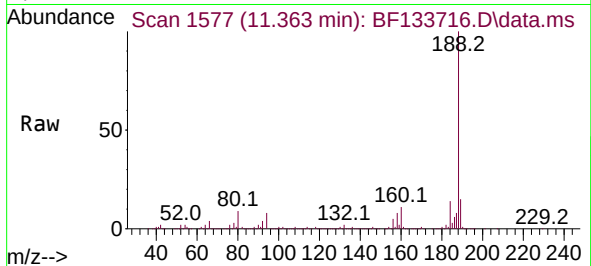
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Ion Ratio Lower Upper  
166 100  
165 94.2 73.1 109.7  
167 12.4 10.5 15.7





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.363 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47

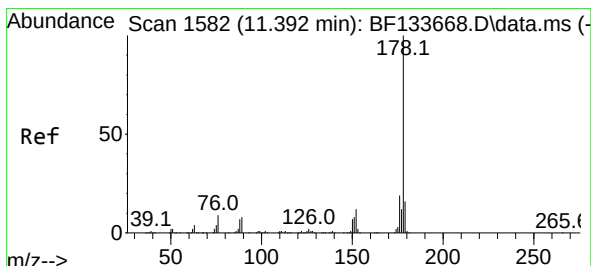
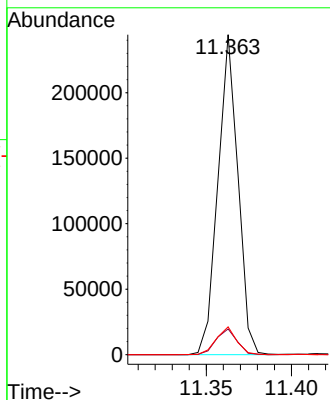
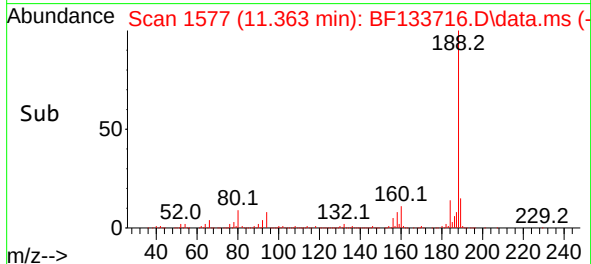
Instrument :  
BNA\_F  
ClientSampleId :  
SB-03-5.0-7.0



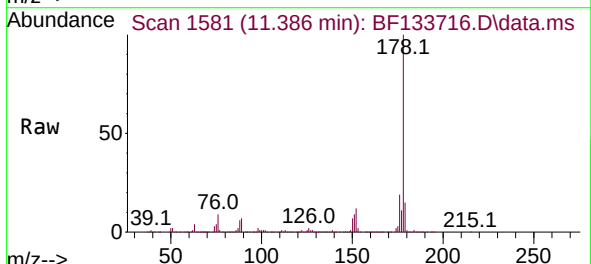
Tgt Ion:188 Resp: 199724  
Ion Ratio Lower Upper  
188 100  
94 8.0 6.8 10.2  
80 8.7 7.8 11.6

Manual Integrations  
APPROVED

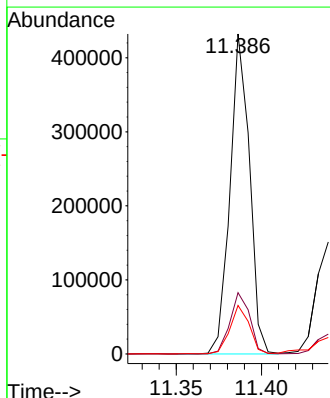
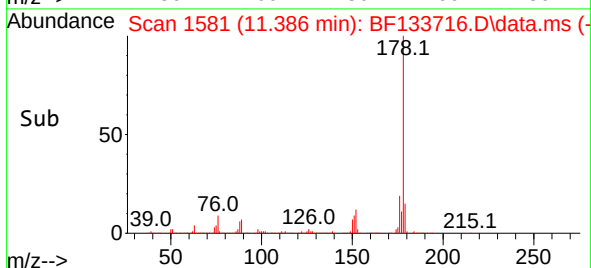
Reviewed By :Yogesh Patel 06/13/2023  
Supervised By :mohammad ahmed 06/13/2023



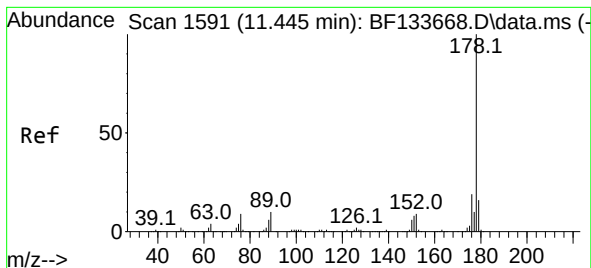
#71  
Phenanthrene  
Concen: 33.881 ng  
RT: 11.386 min Scan# 1581  
Delta R.T. -0.006 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47



Tgt Ion:178 Resp: 343313  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.6 23.4  
179 15.1 12.4 18.6







#72

Anthracene

Concen: 11.443 ng

RT: 11.439 min Scan# 1590

Delta R.T. -0.006 min

Lab File: BF133716.D

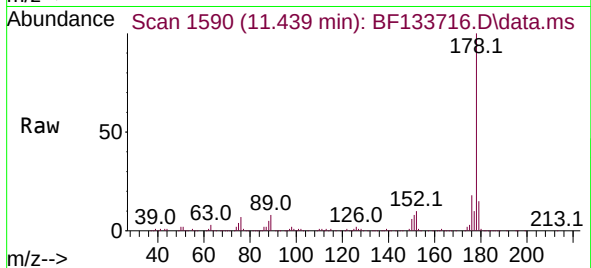
Acq: 12 Jun 2023 21:47

Instrument :

BNA\_F

ClientSampleId :

SB-03-5.0-7.0



Tgt Ion:178 Resp: 120898

Ion Ratio Lower Upper

178 100

176 17.7 15.1 22.7

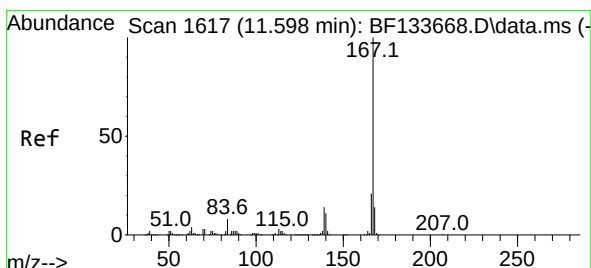
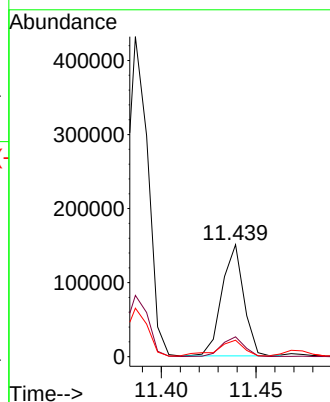
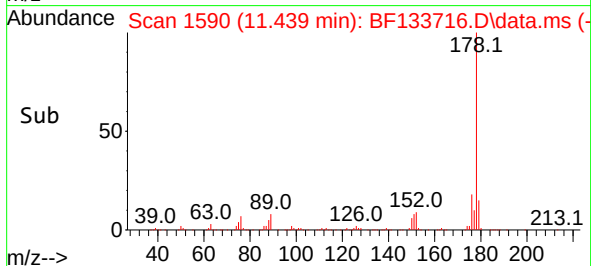
179 14.7 12.6 18.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023



#73

Carbazole

Concen: 3.620 ng

RT: 11.592 min Scan# 1616

Delta R.T. -0.006 min

Lab File: BF133716.D

Acq: 12 Jun 2023 21:47

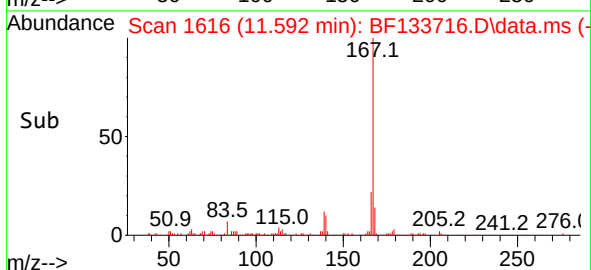
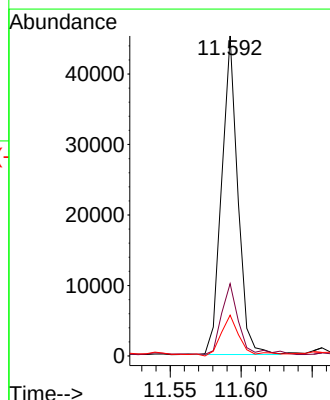
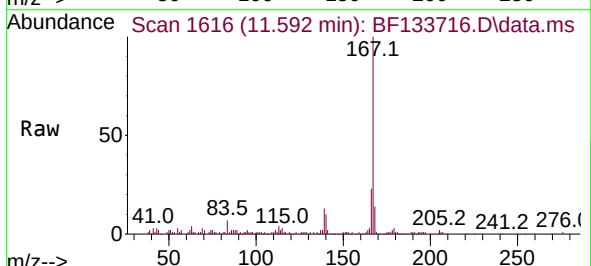
Tgt Ion:167 Resp: 35625

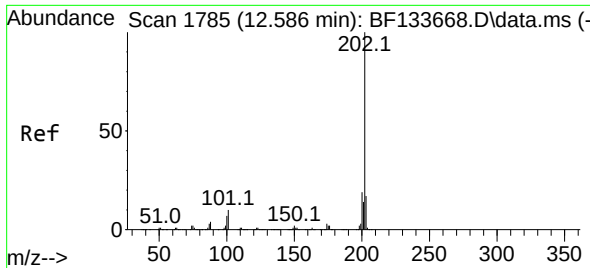
Ion Ratio Lower Upper

167 100

166 22.6 17.0 25.6

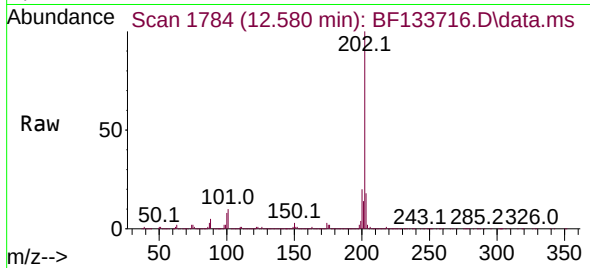
139 12.7 11.2 16.8





#75  
Fluoranthene  
Concen: 63.532 ng  
RT: 12.580 min Scan# 1784  
Delta R.T. -0.000 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47

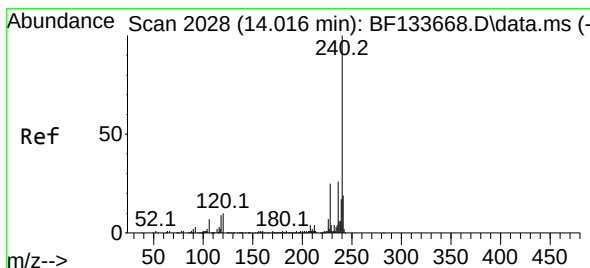
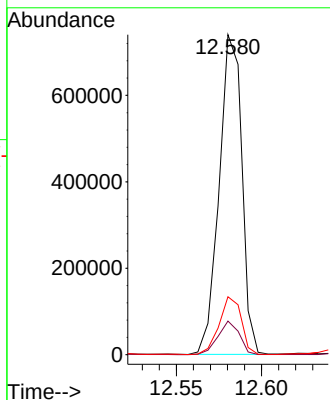
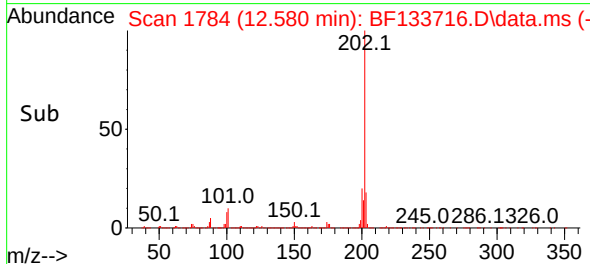
Instrument :  
BNA\_F  
ClientSampleId :  
SB-03-5.0-7.0



Tgt Ion:202 Resp: 683630  
Ion Ratio Lower Upper  
202 100  
101 10.5 0.0 29.6  
203 18.1 0.0 37.4

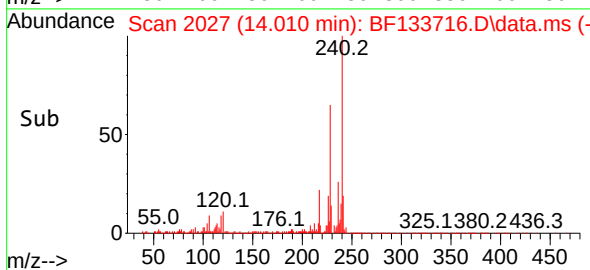
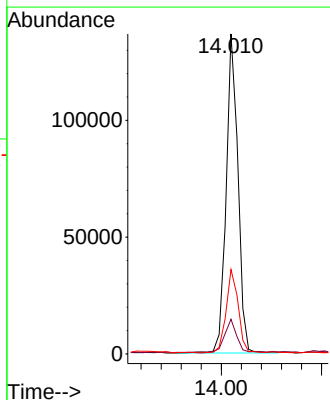
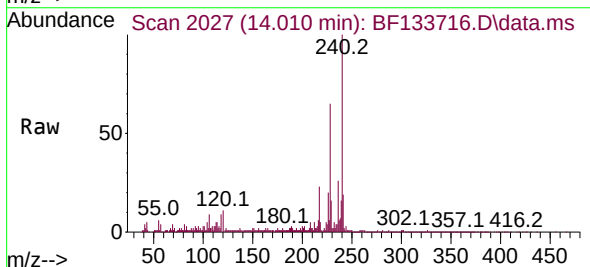
Manual Integrations  
APPROVED

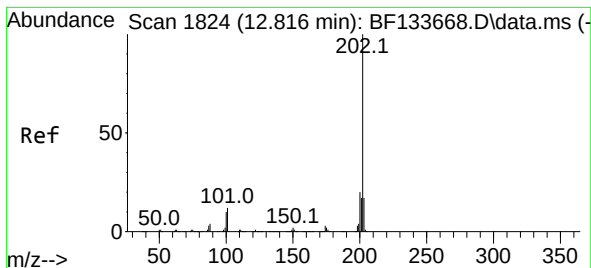
Reviewed By :Yogesh Patel 06/13/2023  
Supervised By :mohammad ahmed 06/13/2023



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.010 min Scan# 2027  
Delta R.T. -0.006 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47

Tgt Ion:240 Resp: 111445  
Ion Ratio Lower Upper  
240 100  
120 10.8 8.1 12.1  
236 26.4 20.5 30.7





#78

Pyrene

Concen: 58.778 ng

RT: 12.816 min Scan# 1824

Delta R.T. 0.006 min

Lab File: BF133716.D

Acq: 12 Jun 2023 21:47

Instrument :

BNA\_F

ClientSampleId :

SB-03-5.0-7.0

Tgt Ion:202 Resp: 610209

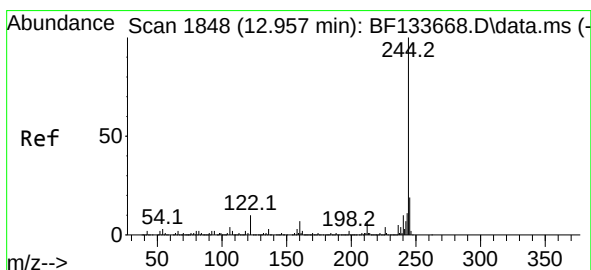
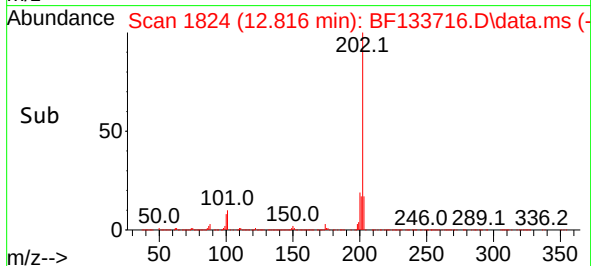
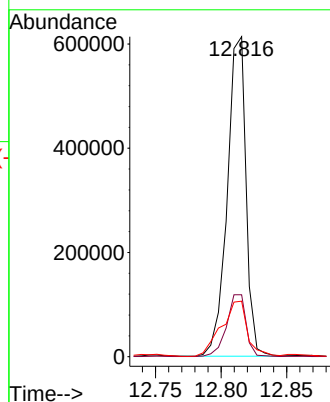
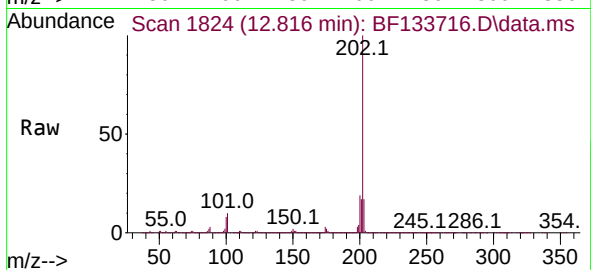
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 19.4  | 16.2  | 24.2  |
| 203 | 17.4  | 13.9  | 20.9  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023



#79

Terphenyl-d14

Concen: 54.929 ng

RT: 12.951 min Scan# 1847

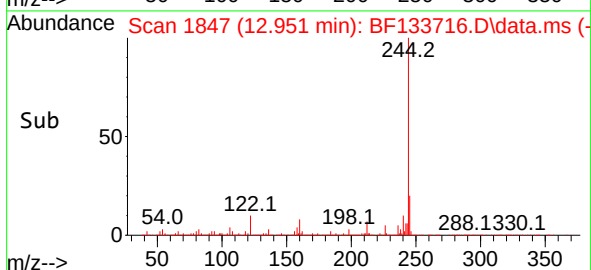
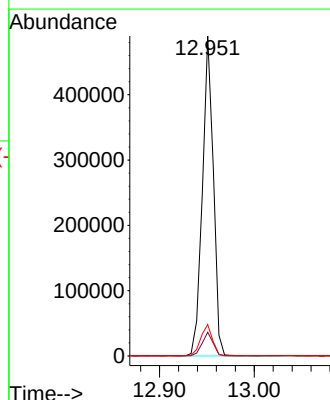
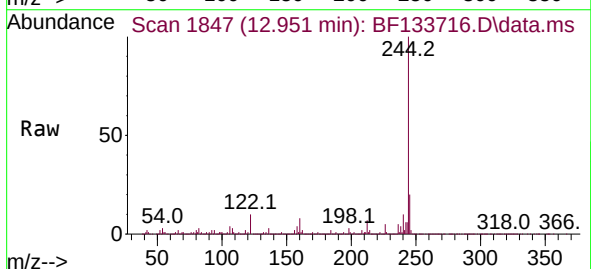
Delta R.T. -0.006 min

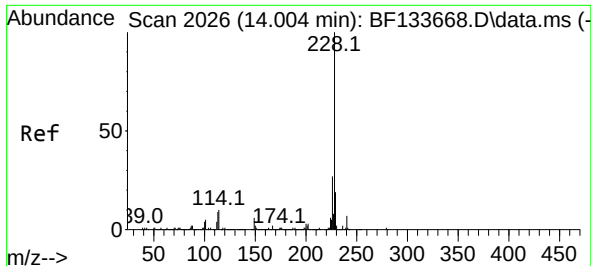
Lab File: BF133716.D

Acq: 12 Jun 2023 21:47

Tgt Ion:244 Resp: 395615

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.4   | 5.4   | 8.2   |
| 122 | 9.8   | 8.1   | 12.1  |





#81  
Benzo(a)anthracene  
Concen: 34.779 ng  
RT: 14.004 min Scan# 2026  
Delta R.T. -0.000 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47

Instrument :

BNF\_F

ClientSampleId :

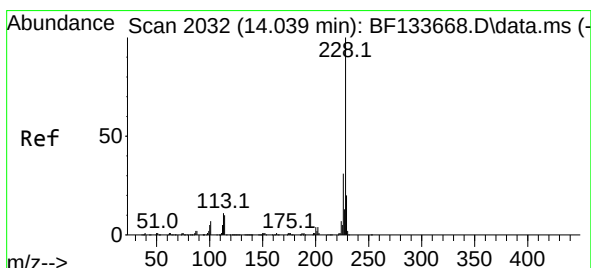
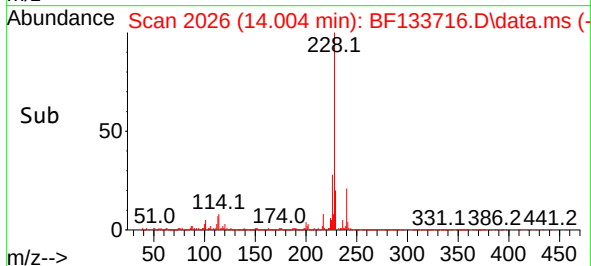
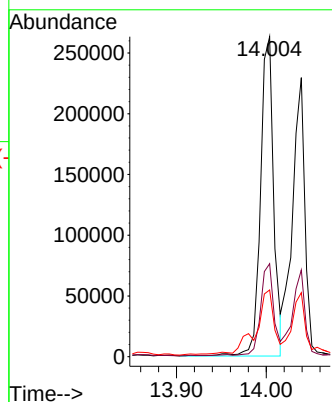
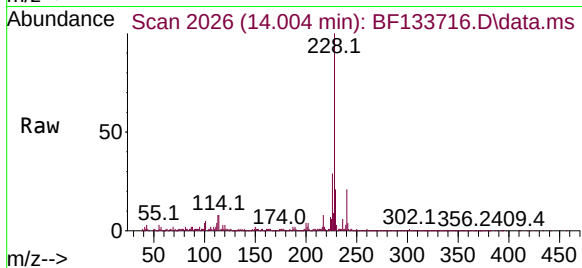
SB-03-5.0-7.0

Tgt Ion:228 Resp: 268098  
Ion Ratio Lower Upper  
228 100  
226 29.0 21.7 32.5  
229 20.9 15.4 23.2

Manual Integrations

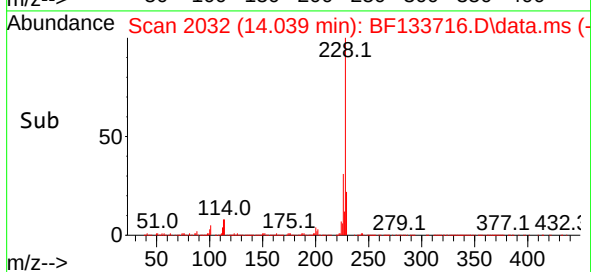
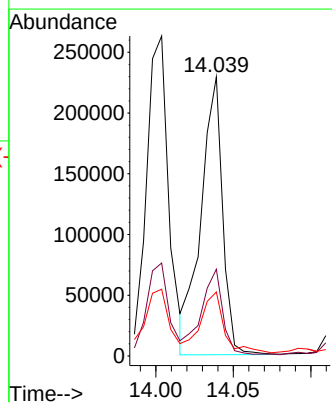
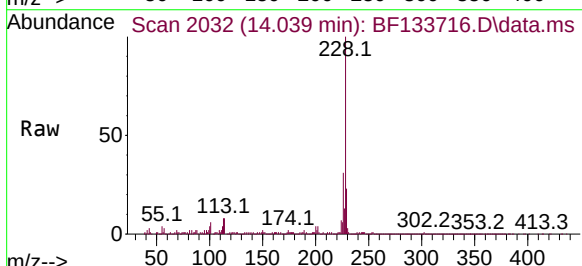
APPROVED

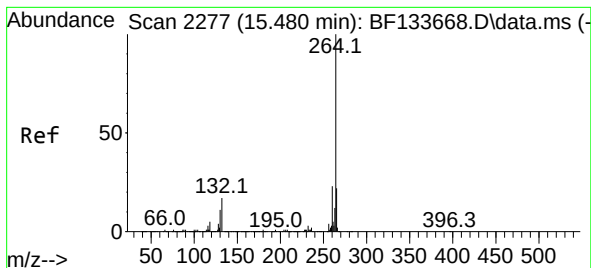
Reviewed By :Yogesh Patel 06/13/2023  
Supervised By :mohammad ahmed 06/13/2023



#83  
Chrysene  
Concen: 30.570 ng  
RT: 14.039 min Scan# 2032  
Delta R.T. 0.000 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47

Tgt Ion:228 Resp: 222889  
Ion Ratio Lower Upper  
228 100  
226 31.1 25.0 37.6  
229 22.9 15.8 23.8





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.480 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47

Instrument :

BNA\_F

ClientSampleId :

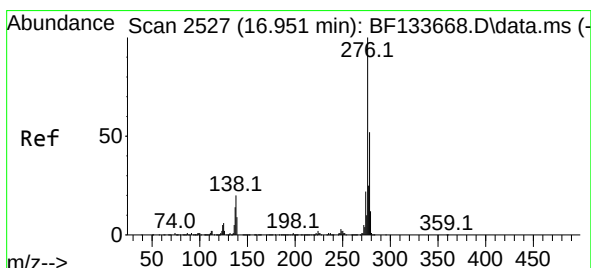
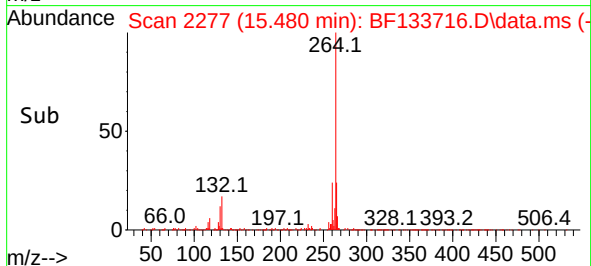
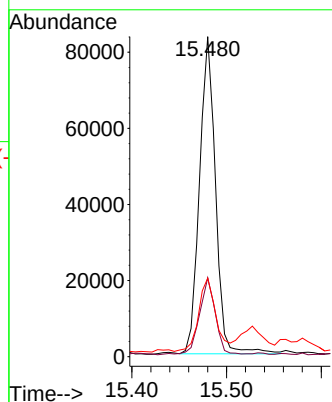
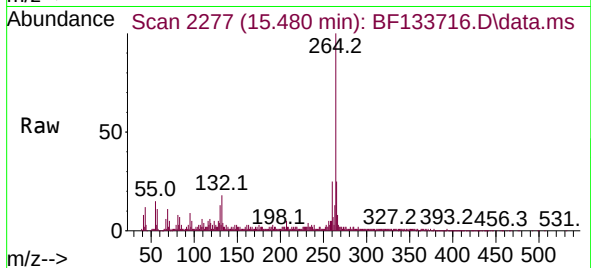
SB-03-5.0-7.0

Tgt Ion:264 Resp: 98560  
Ion Ratio Lower Upper  
264 100  
260 24.6 18.2 27.2  
265 24.5 17.8 26.6

Manual Integrations

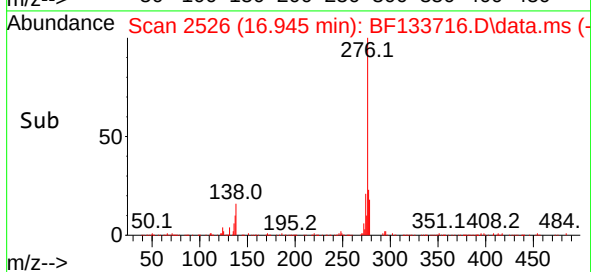
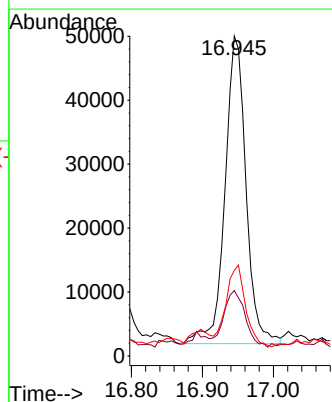
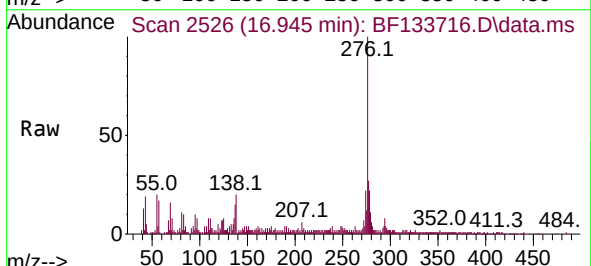
APPROVED

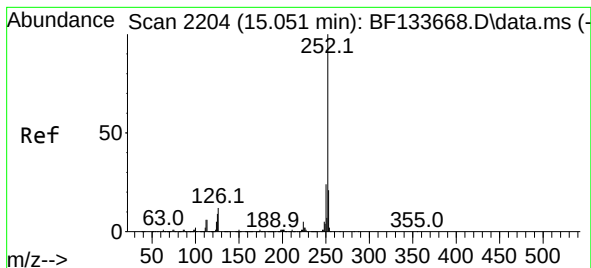
Reviewed By :Yogesh Patel 06/13/2023  
Supervised By :mohammad ahmed 06/13/2023



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 14.615 ng  
RT: 16.945 min Scan# 2526  
Delta R.T. -0.000 min  
Lab File: BF133716.D  
Acq: 12 Jun 2023 21:47

Tgt Ion:276 Resp: 99100  
Ion Ratio Lower Upper  
276 100  
138 18.9 17.9 26.9  
277 24.6 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 37.693 ng m

RT: 15.051 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF133716.D

Acq: 12 Jun 2023 21:47

Instrument :

BNF

ClientSampleId :

SB-03-5.0-7.0

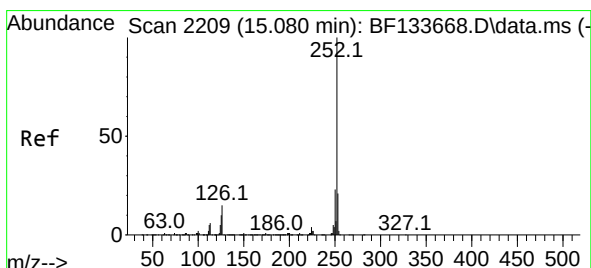
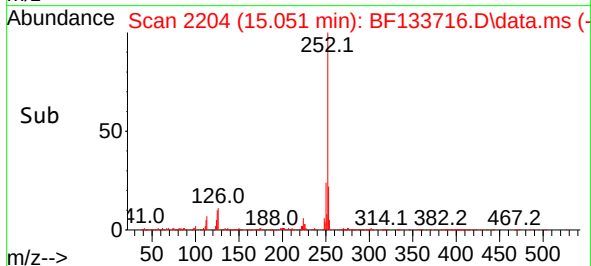
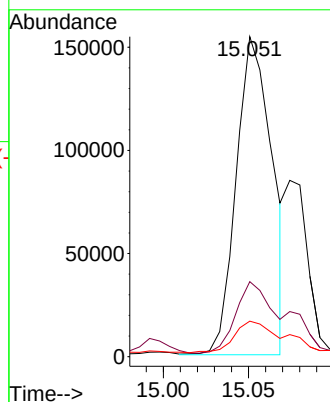
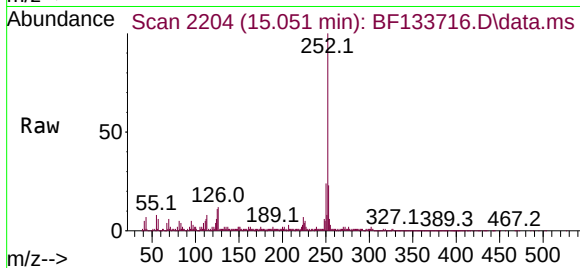
Tgt Ion:252 Resp: 225669  
 Ion Ratio Lower Upper  
 252 100  
 253 23.5 17.0 25.6  
 125 11.1 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023



#89

Benzo(k)fluoranthene

Concen: 12.918 ng m

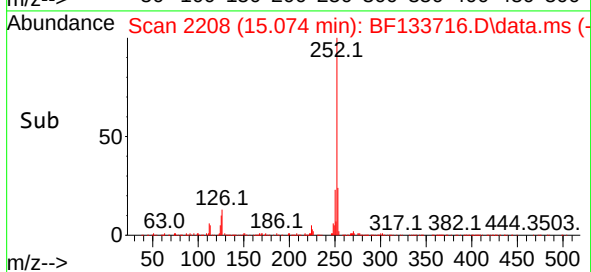
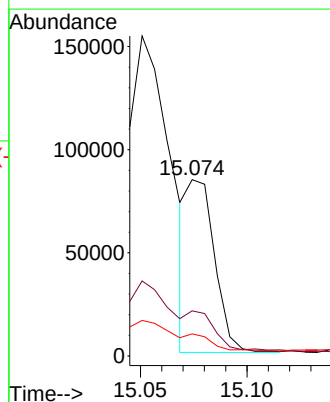
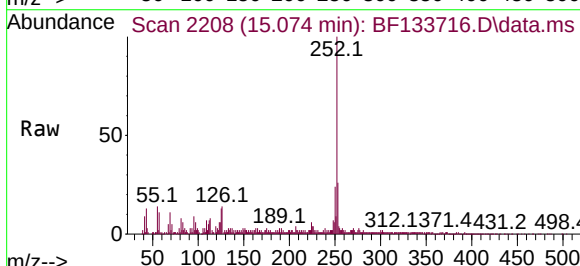
RT: 15.074 min Scan# 2208

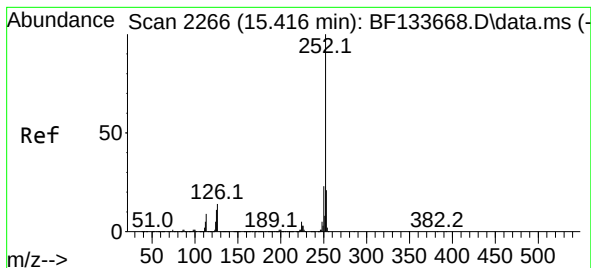
Delta R.T. -0.006 min

Lab File: BF133716.D

Acq: 12 Jun 2023 21:47

Tgt Ion:252 Resp: 75341  
 Ion Ratio Lower Upper  
 252 100  
 253 25.6 17.0 25.4#  
 125 12.5 7.8 11.6#





#90

Benzo(a)pyrene

Concen: 33.135 ng

RT: 15.415 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF133716.D

Acq: 12 Jun 2023 21:47

Instrument :

BNF

ClientSampleId :

SB-03-5.0-7.0

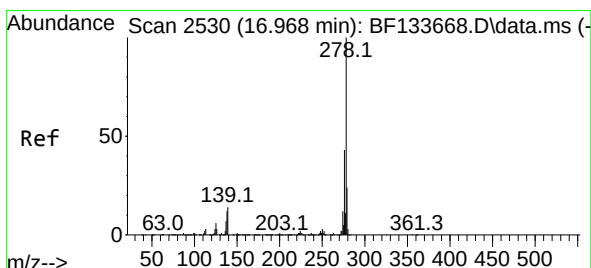
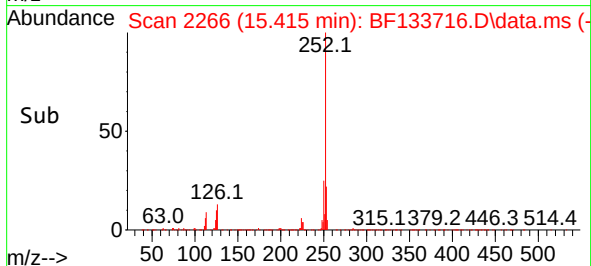
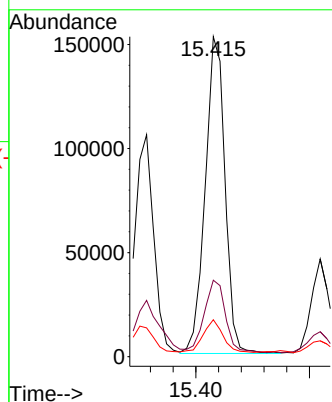
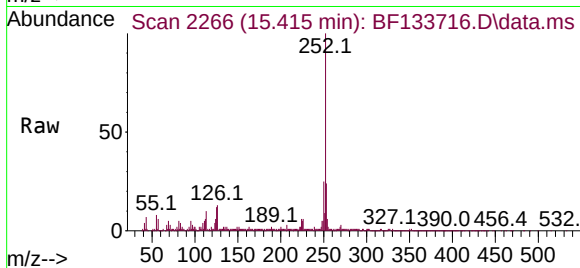
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 18411 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.9  | 17.1  | 25.7  |
| 125       | 11.6  | 8.6   | 13.0  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023



#91

Dibenzo(a,h)anthracene

Concen: 4.419 ng

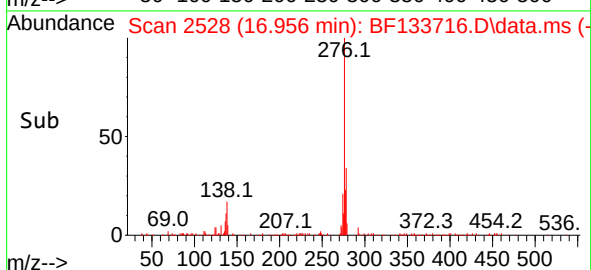
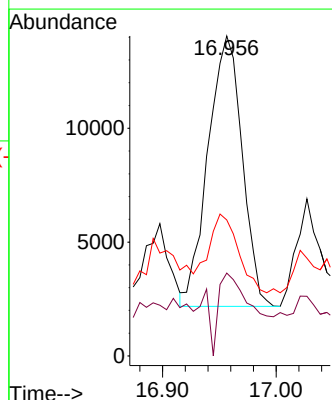
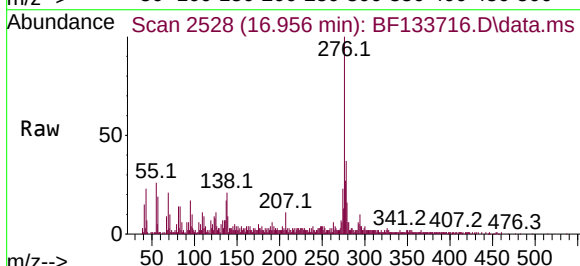
RT: 16.956 min Scan# 2528

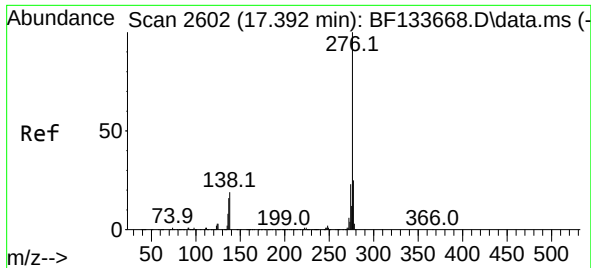
Delta R.T. -0.006 min

Lab File: BF133716.D

Acq: 12 Jun 2023 21:47

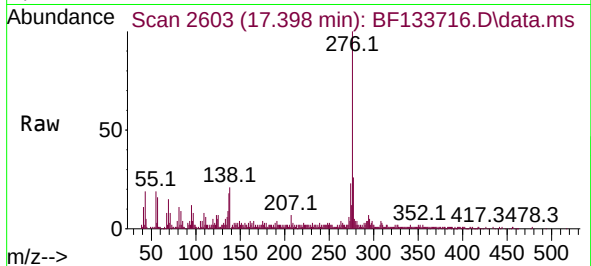
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 24807 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 25.9  | 11.4  | 17.2# |
| 279       | 42.5  | 19.0  | 28.4# |





#92  
 Benzo(g,h,i)perylene  
 Concen: 19.534 ng  
 RT: 17.398 min Scan# 20  
 Delta R.T. 0.006 min  
 Lab File: BF133716.D  
 Acq: 12 Jun 2023 21:47

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-03-5.0-7.0



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 108720 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 25.6  | 19.8  | 29.8   |
| 138       | 20.6  | 15.0  | 22.4   |

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/13/2023  
 Supervised By :mohammad ahmed 06/13/2023

