

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF011223\  
 Data File : BF132052.D  
 Acq On : 12 Jan 2023 20:55  
 Operator : CG\JU  
 Sample : 01124-01  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-C

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 01/13/2023  
 Supervised By :mohammad ahmed 01/13/2023

Quant Time: Jan 13 01:38:44 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF010923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 12 23:59:08 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.769  | 152  | 62680    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.063  | 136  | 211174   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.822  | 164  | 105141   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.310 | 188  | 183694   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 13.963 | 240  | 130532   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 15.421 | 264  | 102751   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.393  | 112  | 486982   | 128.022 | ng    | 0.01     |
| 7) Phenol-d6                | 6.422  | 99   | 614027   | 121.746 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.345  | 82   | 419387   | 82.425  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.616 | 330  | 125742   | 104.014 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.139  | 172  | 659935   | 84.733  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.904 | 244  | 636504   | 69.890  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 52) Acenaphthene            | 9.851  | 154  | 27842    | 4.745   | ng    | 98       |
| 55) Dibenzofuran            | 10.028 | 168  | 27583    | 2.983   | ng    | 97       |
| 58) Fluorene                | 10.369 | 166  | 42306    | 5.727   | ng    | 99       |
| 71) Phenanthrene            | 11.339 | 178  | 381324   | 39.821  | ng    | 100      |
| 72) Anthracene              | 11.386 | 178  | 133304   | 13.522  | ng    | 99       |
| 73) Carbazole               | 11.545 | 167  | 20419    | 2.502   | ng    | 98       |
| 75) Fluoranthene            | 12.533 | 202  | 696249   | 64.649  | ng    | 100      |
| 78) Pyrene                  | 12.763 | 202  | 585445   | 49.175  | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.951 | 228  | 283911   | 29.896  | ng    | 98       |
| 83) Chrysene                | 13.992 | 228  | 236494   | 26.647  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.880 | 276  | 94943    | 15.066  | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 14.998 | 252  | 257322m  | 36.513  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.027 | 252  | 85818m   | 12.201  | ng    |          |
| 90) Benzo(a)pyrene          | 15.362 | 252  | 180204   | 28.380  | ng    | # 97     |
| 91) Dibenzo(a,h)anthracene  | 16.880 | 278  | 24797m   | 4.694   | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.315 | 276  | 89800    | 18.235  | ng    | 95       |
| -----                       |        |      |          |         |       |          |

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

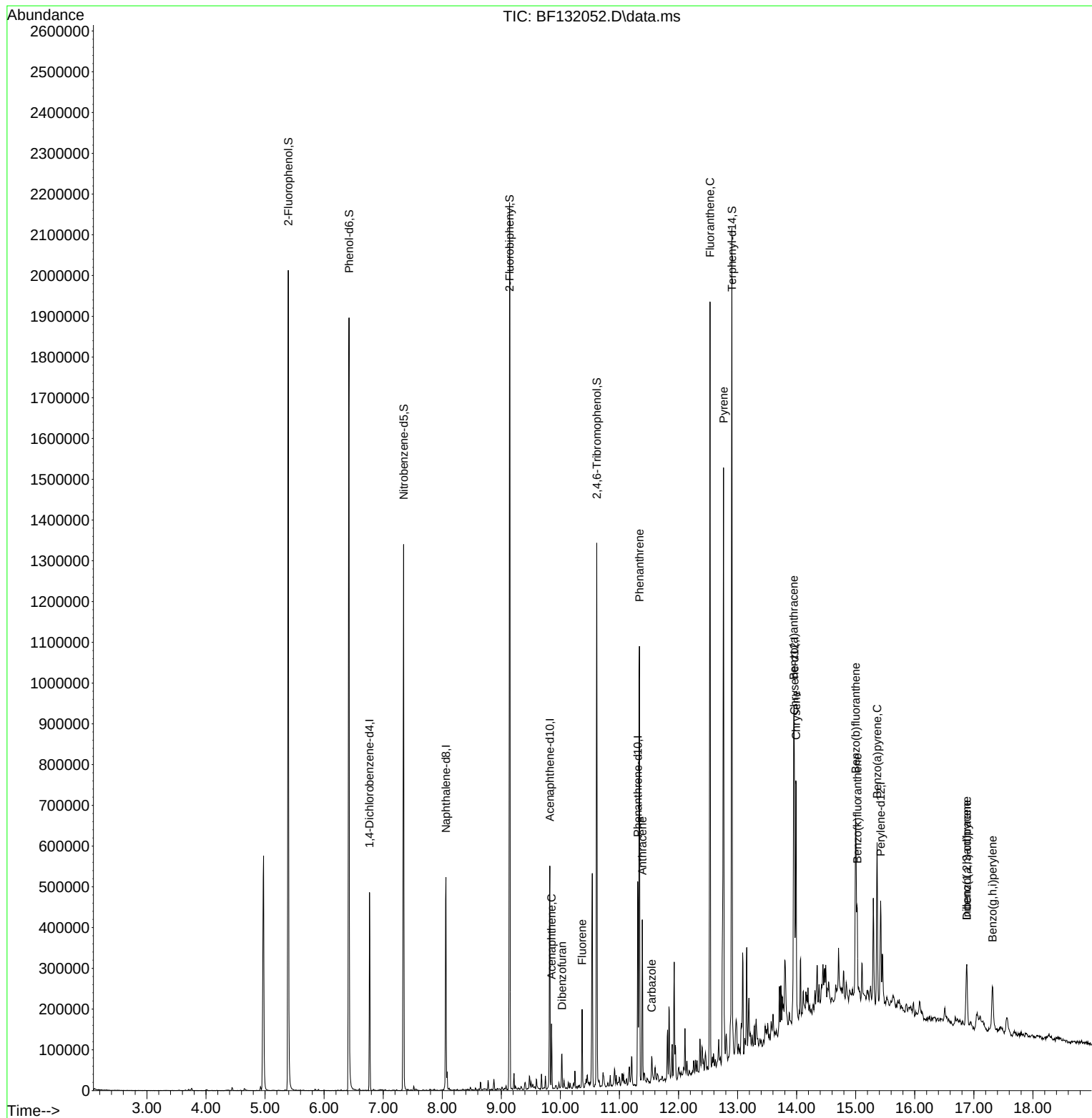
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF011223\  
Data File : BF132052.D  
Acq On : 12 Jan 2023 20:55  
Operator : CG\JU  
Sample : 01124-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

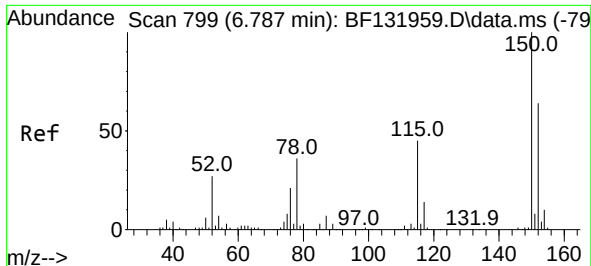
Instrument :  
BNA\_F  
ClientSampleId :  
TP-C

Quant Time: Jan 13 01:38:44 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF010923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jan 12 23:59:08 2023  
Response via : Initial Calibration

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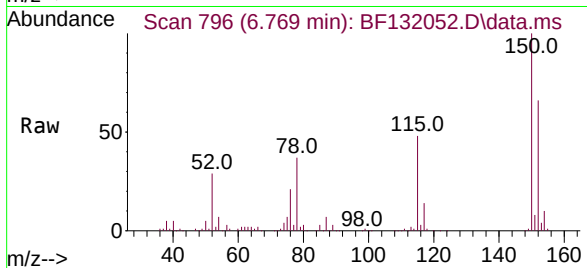
Reviewed By :Jagrut Upadhyay 01/13/2023  
Supervised By :mohammad ahmed 01/13/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.769 min Scan# 799  
Delta R.T. -0.006 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

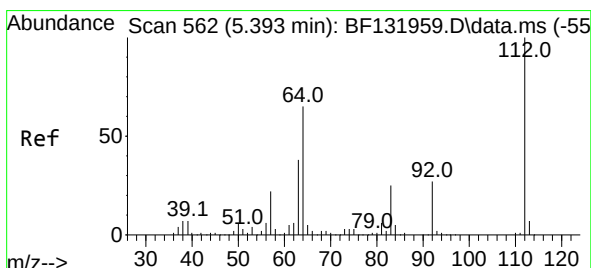
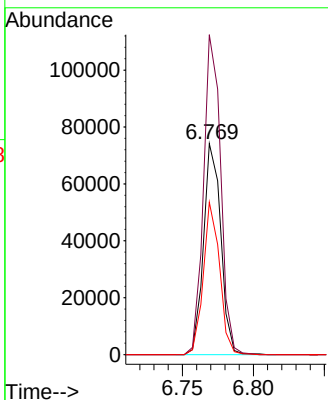
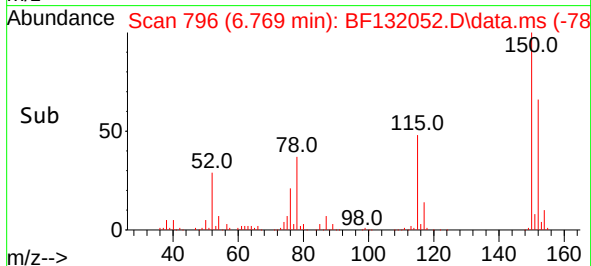
Instrument :  
BNA\_F  
ClientSampleId :  
TP-C



Tgt Ion:152 Resp: 62680  
Ion Ratio Lower Upper  
152 100  
150 151.6 124.6 186.8  
115 72.2 55.6 83.4

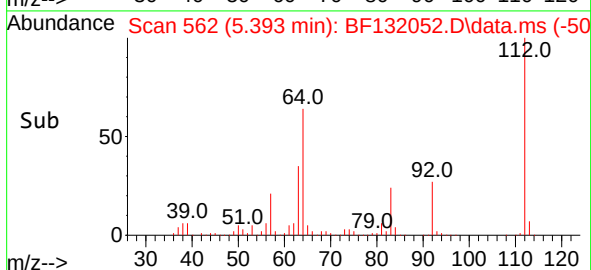
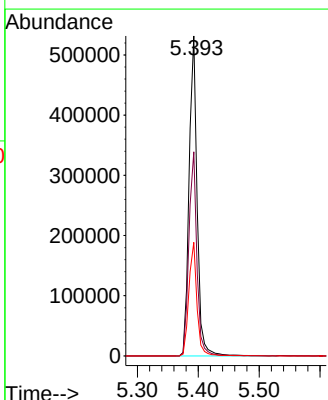
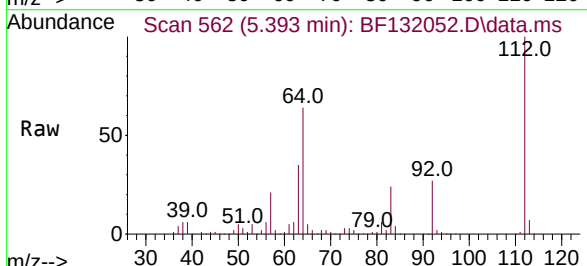
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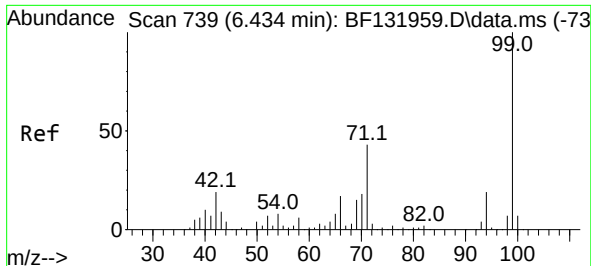
Reviewed By :Jagrut Upadhyay 01/13/2023  
Supervised By :mohammad ahmed 01/13/2023



#5  
2-Fluorophenol  
Concen: 128.022 ng  
RT: 5.393 min Scan# 562  
Delta R.T. 0.012 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

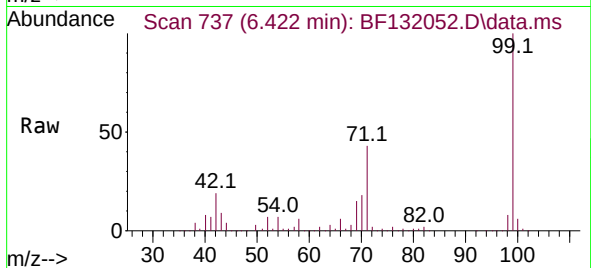
Tgt Ion:112 Resp: 486982  
Ion Ratio Lower Upper  
112 100  
64 63.8 51.9 77.9  
63 35.5 30.2 45.2





#7  
Phenol-d6  
Concen: 121.746 ng  
RT: 6.422 min Scan# 739  
Delta R.T. -0.000 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

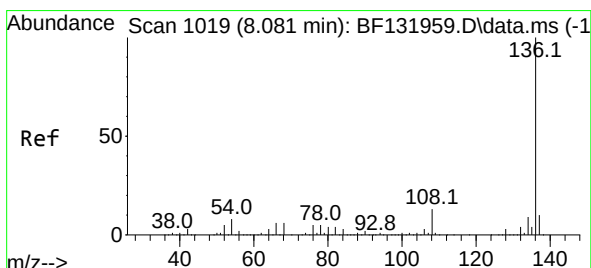
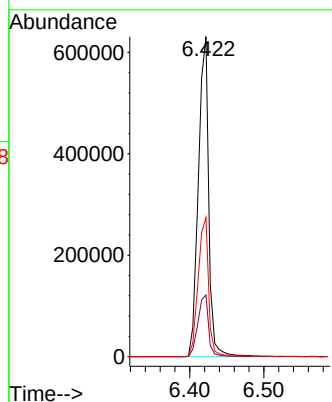
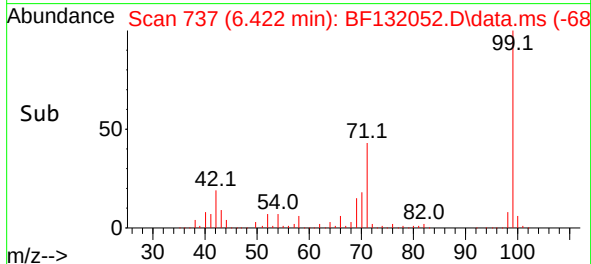
Instrument :  
BNA\_F  
ClientSampleId :  
TP-C



Tgt Ion: 99 Resp: 614027  
Ion Ratio Lower Upper  
99 100  
42 19.3 15.4 23.2  
71 43.4 34.6 51.8

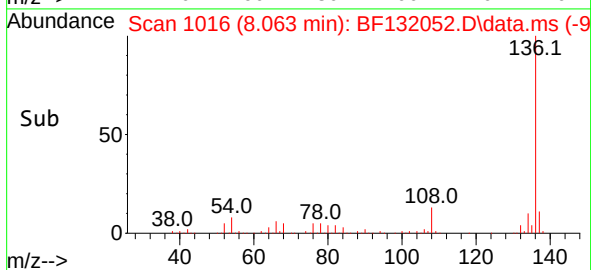
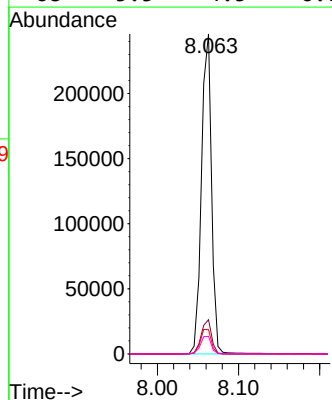
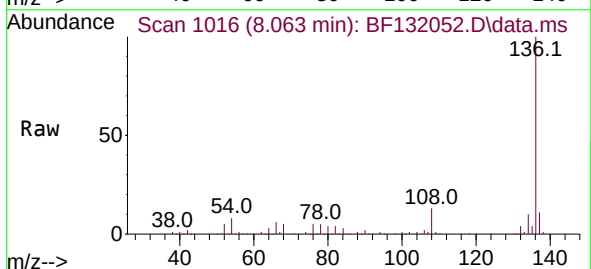
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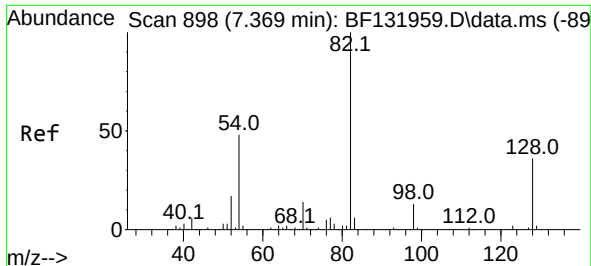
Reviewed By :Jagrut Upadhyay 01/13/2023  
Supervised By :mohammad ahmed 01/13/2023



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.063 min Scan# 1016  
Delta R.T. -0.000 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

Tgt Ion:136 Resp: 211174  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.2 12.2  
54 7.6 6.6 9.8  
68 5.5 4.5 6.7





#23

Nitrobenzene-d5

Concen: 82.425 ng

RT: 7.345 min Scan# 89

Delta R.T. -0.006 min

Lab File: BF132052.D

Acq: 12 Jan 2023 20:55

Instrument :

BNA\_F

ClientSampleId :

TP-C

Tgt Ion: 82 Resp: 41938

Ion Ratio Lower Upper

82 100

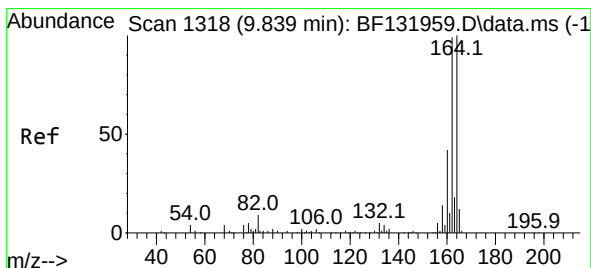
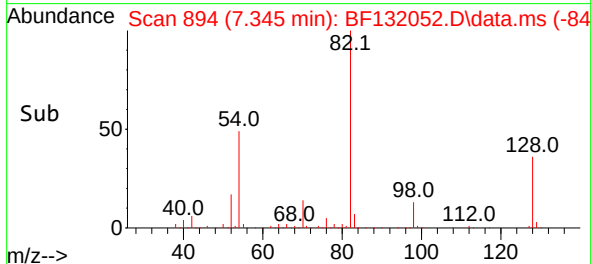
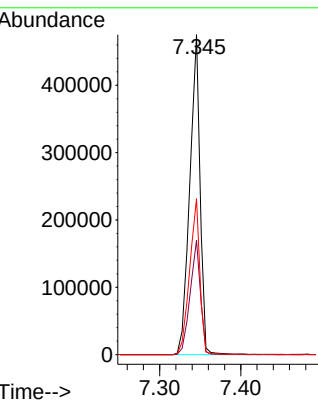
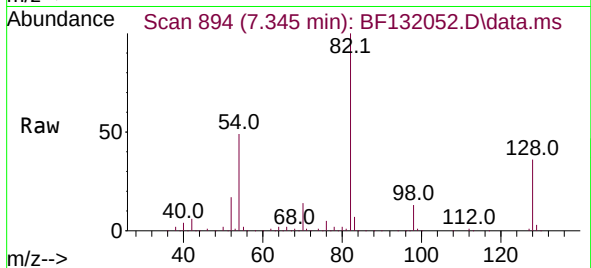
128 35.8 28.7 43.1

54 48.7 38.1 57.1

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Reviewed By :Jagrut Upadhyay 01/13/2023  
Supervised By :mohammad ahmed 01/13/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.822 min Scan# 1315

Delta R.T. -0.006 min

Lab File: BF132052.D

Acq: 12 Jan 2023 20:55

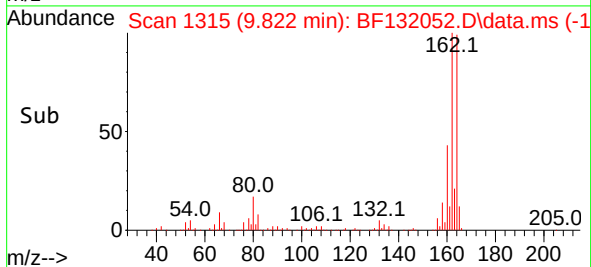
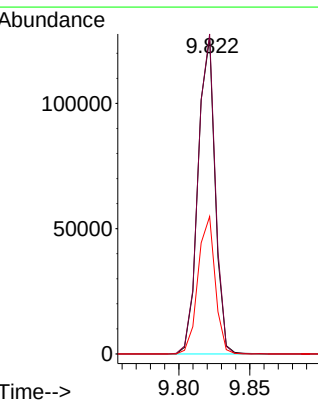
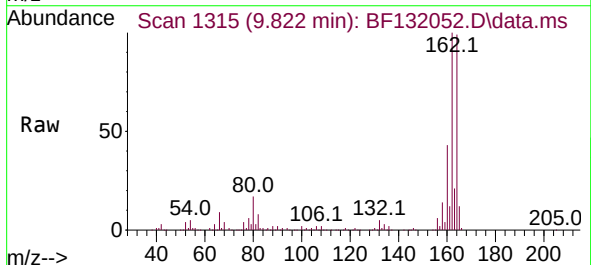
Tgt Ion:164 Resp: 105141

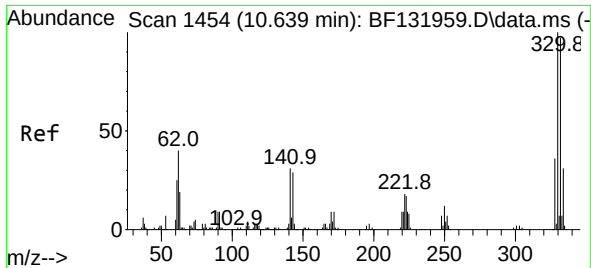
Ion Ratio Lower Upper

164 100

162 101.2 79.4 119.0

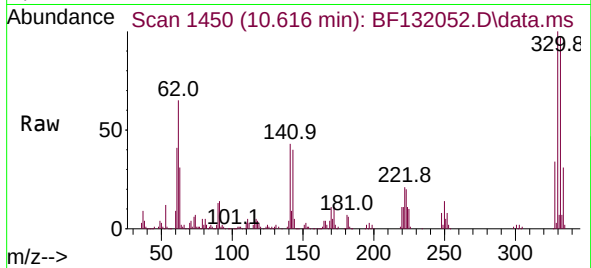
160 43.5 33.9 50.9





#42  
2,4,6-Tribromophenol  
Concen: 104.014 ng  
RT: 10.616 min Scan# 1454  
Delta R.T. -0.006 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

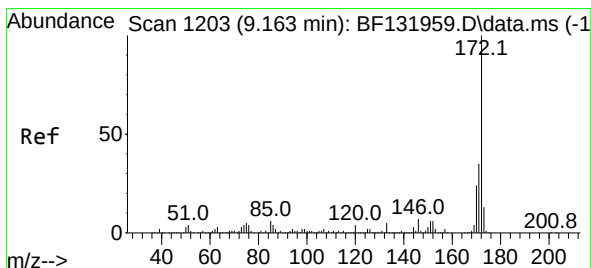
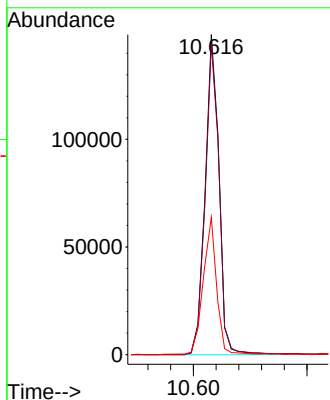
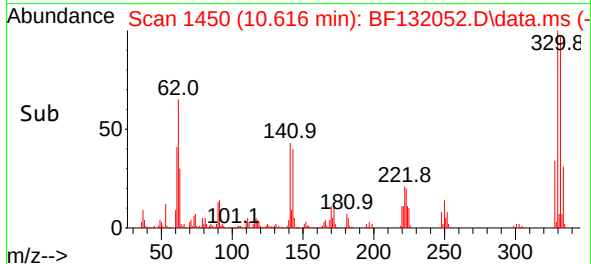
Instrument :  
BNA\_F  
ClientSampleId :  
TP-C



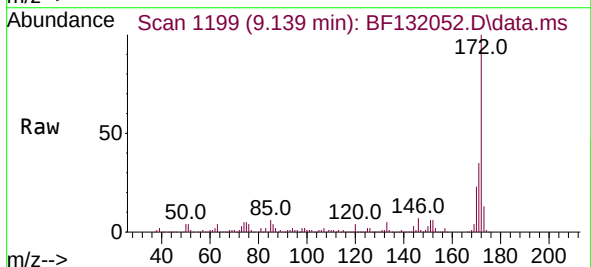
Tgt Ion: 330 Resp: 125742  
Ion Ratio Lower Upper  
330 100  
332 98.0 76.9 115.3  
141 41.7 31.3 46.9

Manual Integrations  
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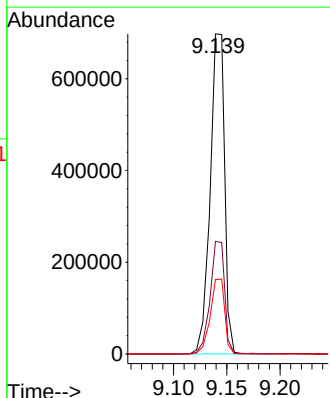
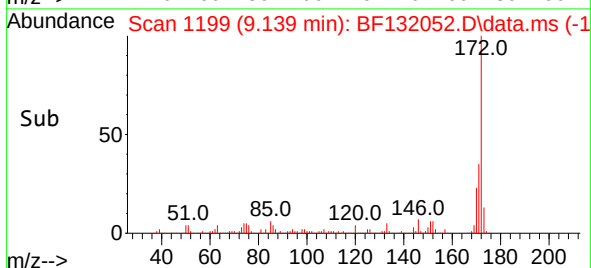
Reviewed By : Jagrut Upadhyay 01/13/2023  
Supervised By : mohammad ahmed 01/13/2023

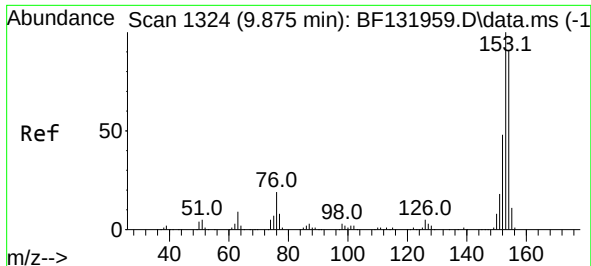


#45  
2-Fluorobiphenyl  
Concen: 84.733 ng  
RT: 9.139 min Scan# 1199  
Delta R.T. -0.006 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55



Tgt Ion: 172 Resp: 659935  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.0 42.0  
170 23.2 18.9 28.3





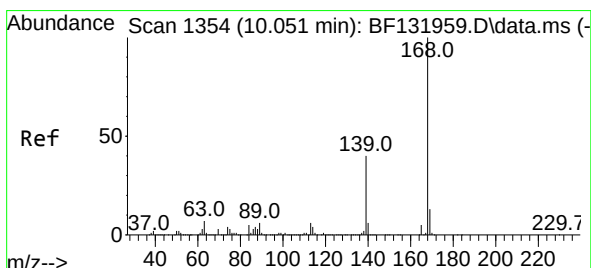
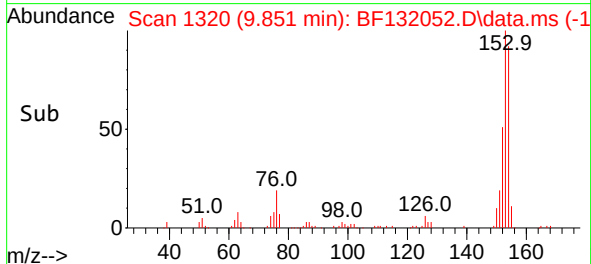
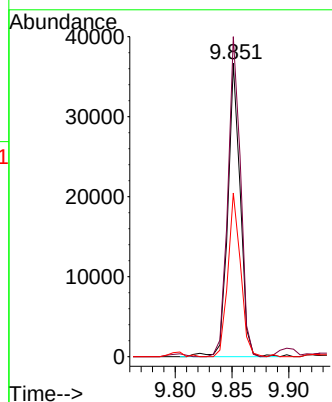
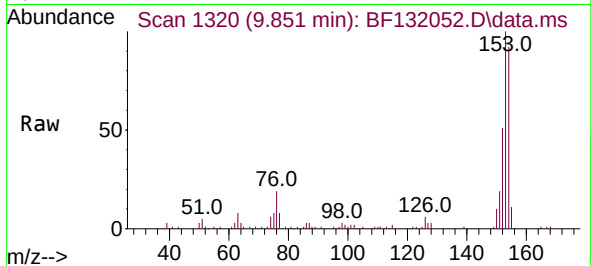
#52  
Acenaphthene  
Concen: 4.745 ng  
RT: 9.851 min Scan# 1320  
Delta R.T. -0.006 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

Instrument :  
BNA\_F  
ClientSampleId :  
TP-C

Tgt Ion:154 Resp: 27842  
Ion Ratio Lower Upper  
154 100  
153 109.2 87.7 131.5  
152 55.8 42.2 63.2

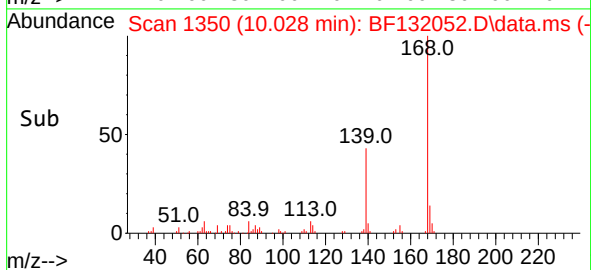
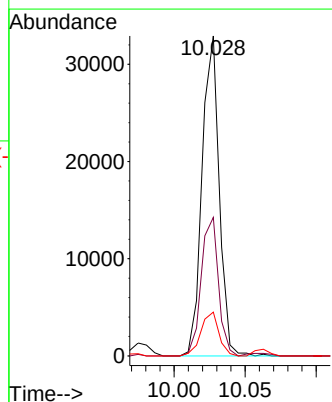
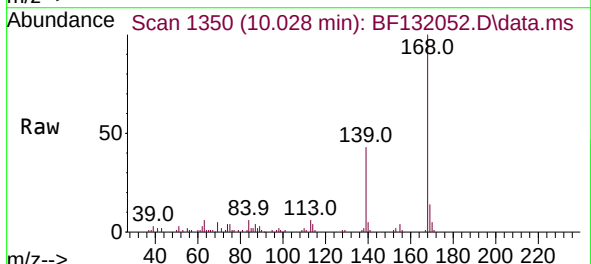
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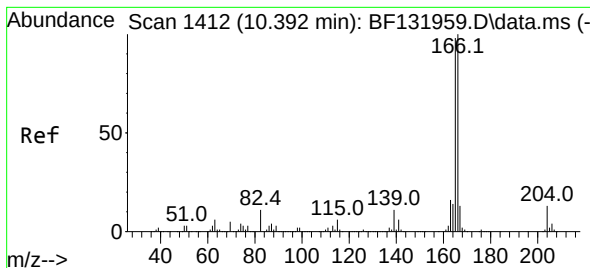
Reviewed By :Jagrut Upadhyay 01/13/2023  
Supervised By :mohammad ahmed 01/13/2023



#55  
Dibenzofuran  
Concen: 2.983 ng  
RT: 10.028 min Scan# 1350  
Delta R.T. -0.006 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

Tgt Ion:168 Resp: 27583  
Ion Ratio Lower Upper  
168 100  
139 43.3 32.4 48.6  
169 13.7 10.7 16.1





#58

Fluorene

Concen: 5.727 ng

RT: 10.369 min Scan# 1412

Delta R.T. -0.006 min

Lab File: BF132052.D

Acq: 12 Jan 2023 20:55

Instrument :

BNA\_F

ClientSampleId :

TP-C

Tgt Ion:166 Resp: 42306

Ion Ratio Lower Upper

166 100

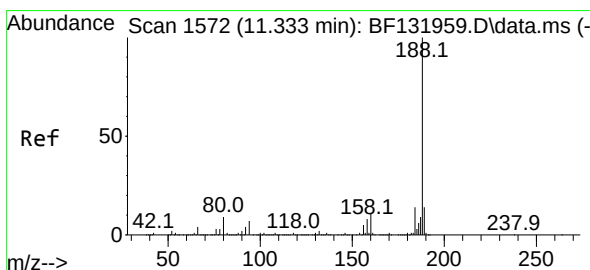
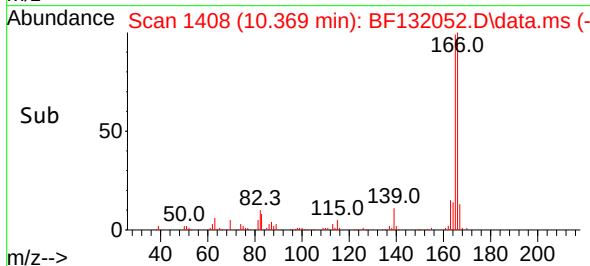
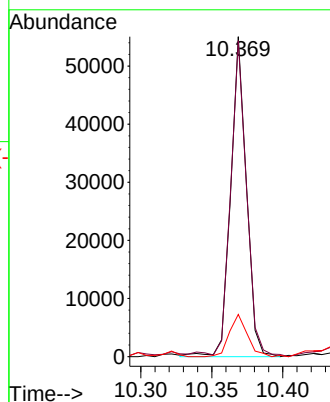
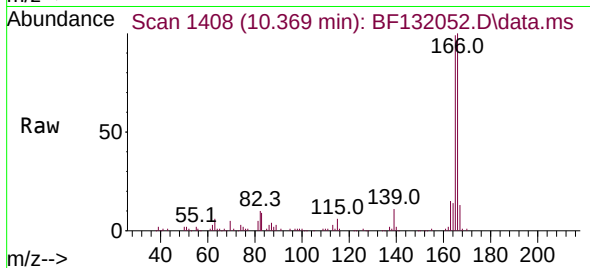
165 98.7 78.3 117.5

167 13.2 10.7 16.1

Manual Integrations

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Reviewed By :Jagrut Upadhyay 01/13/2023  
Supervised By :mohammad ahmed 01/13/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 1568

Delta R.T. -0.006 min

Lab File: BF132052.D

Acq: 12 Jan 2023 20:55

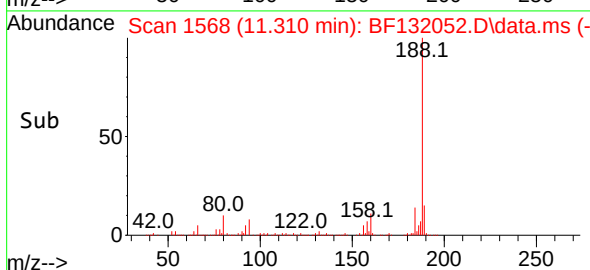
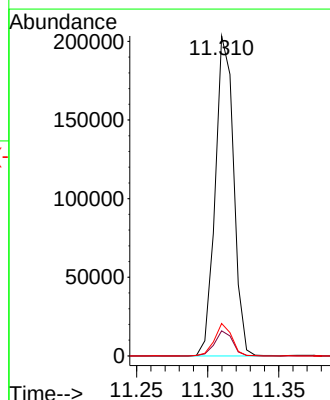
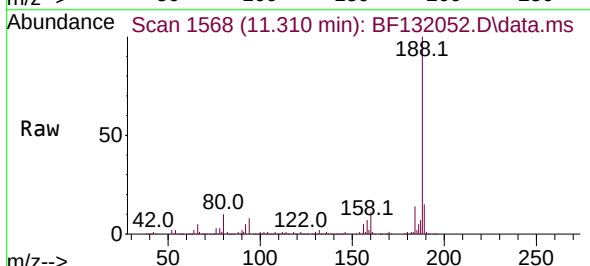
Tgt Ion:188 Resp: 183694

Ion Ratio Lower Upper

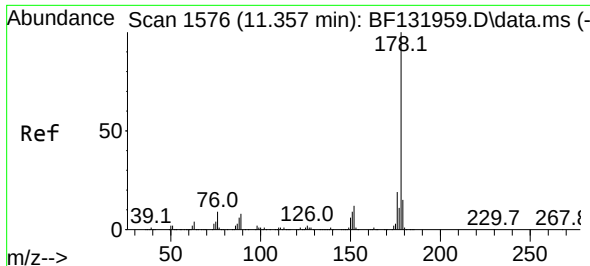
188 100

94 7.8 5.8 8.6

80 10.1 7.4 11.0







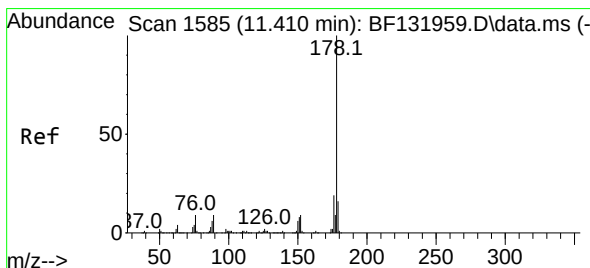
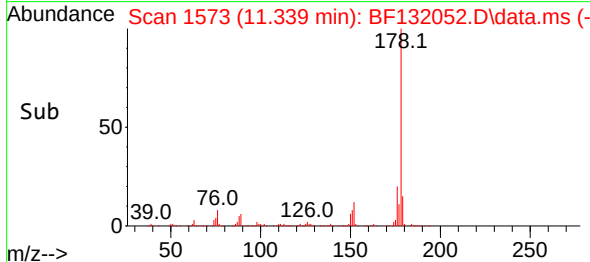
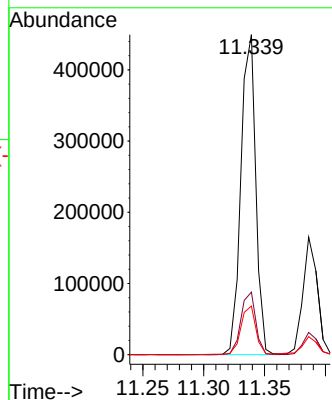
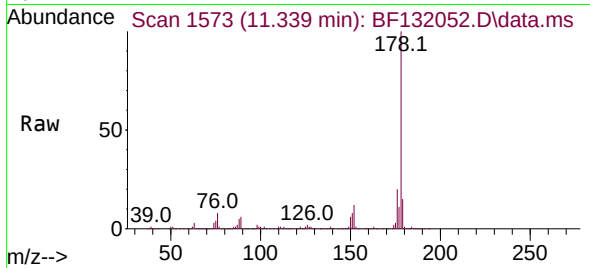
#71  
Phenanthrene  
Concen: 39.821 ng  
RT: 11.339 min Scan# 1573  
Delta R.T. -0.000 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

Instrument :  
BNA\_F  
ClientSampleId :  
TP-C

Tgt Ion:178 Resp: 381324  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.5 23.3  
179 15.2 12.4 18.6

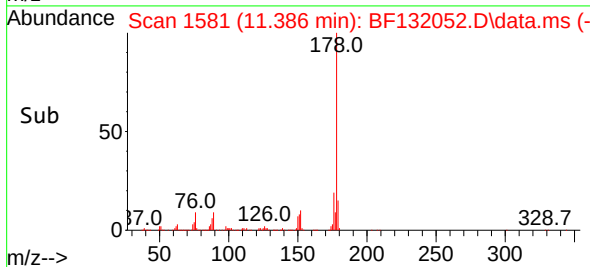
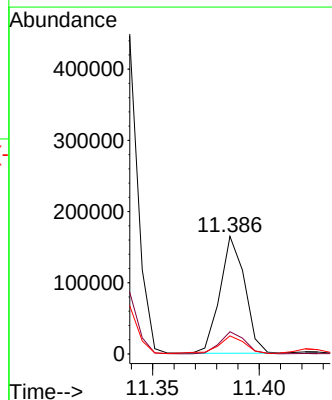
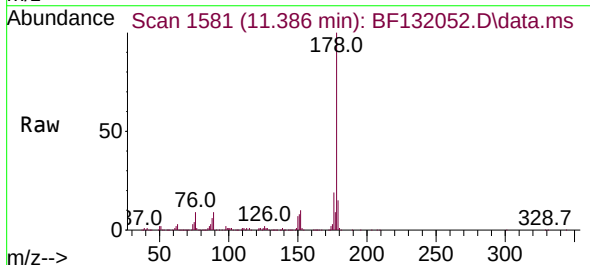
Manual Integrations  
APPROVED

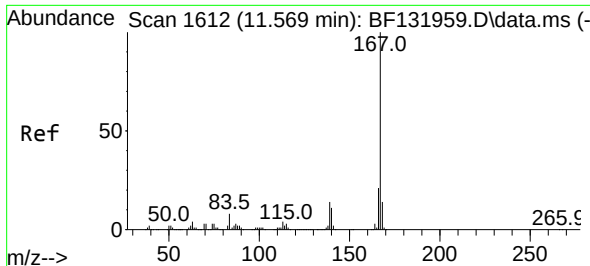
Reviewed By :Jagrut Upadhyay 01/13/2023  
Supervised By :mohammad ahmed 01/13/2023



#72  
Anthracene  
Concen: 13.522 ng  
RT: 11.386 min Scan# 1581  
Delta R.T. -0.006 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

Tgt Ion:178 Resp: 133304  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.3 22.9  
179 15.3 12.6 19.0





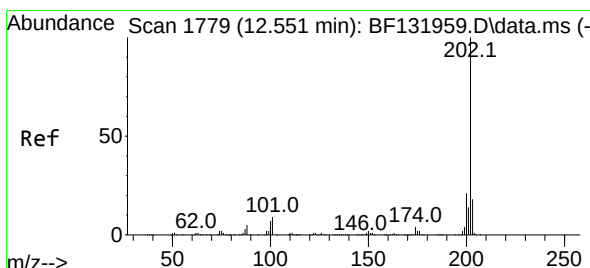
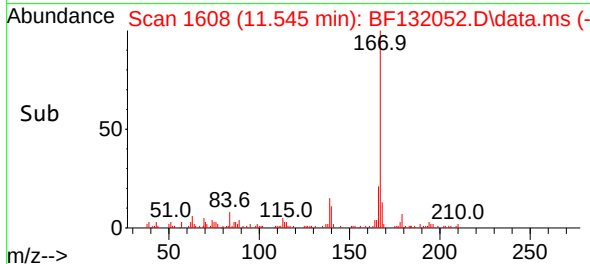
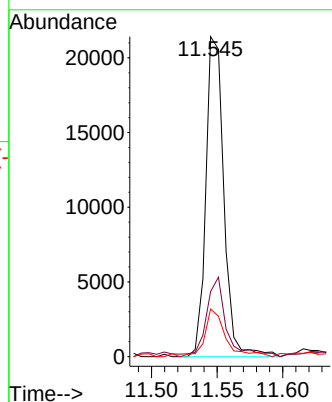
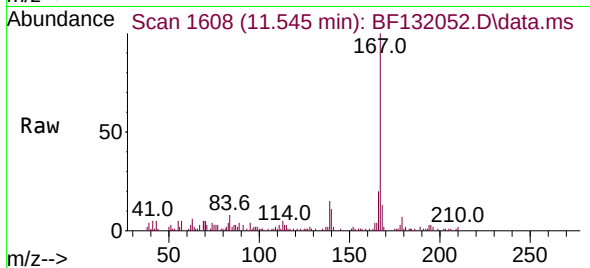
#73  
 Carbazole  
 Concen: 2.502 ng  
 RT: 11.545 min Scan# 1608  
 Delta R.T. -0.006 min  
 Lab File: BF132052.D  
 Acq: 12 Jan 2023 20:55

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-C

Tgt Ion:167 Resp: 20419  
 Ion Ratio Lower Upper  
 167 100  
 166 20.3 16.8 25.2  
 139 14.9 11.1 16.7

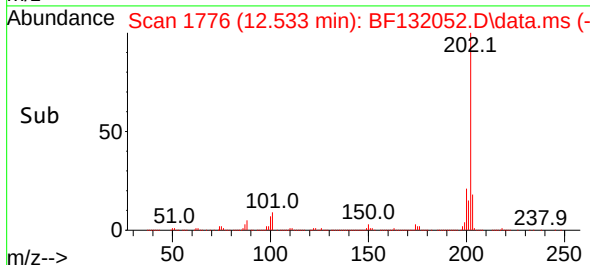
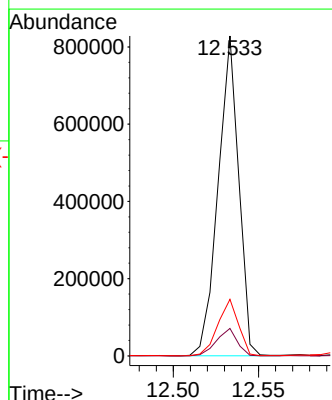
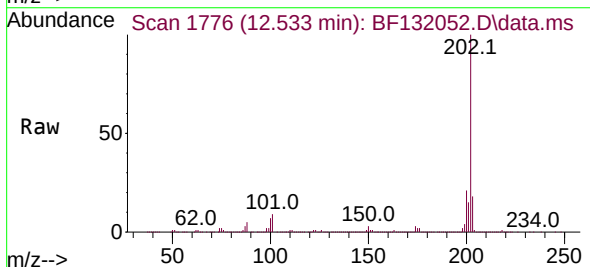
Manual Integrations  
 APPROVED

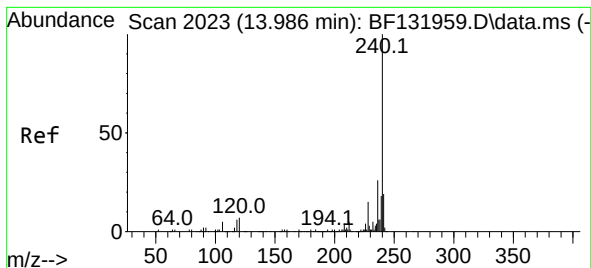
Reviewed By :Jagrut Upadhyay 01/13/2023  
 Supervised By :mohammad ahmed 01/13/2023



#75  
 Fluoranthene  
 Concen: 64.649 ng  
 RT: 12.533 min Scan# 1776  
 Delta R.T. -0.000 min  
 Lab File: BF132052.D  
 Acq: 12 Jan 2023 20:55

Tgt Ion:202 Resp: 696249  
 Ion Ratio Lower Upper  
 202 100  
 101 8.6 0.0 28.8  
 203 17.7 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.963 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF132052.D

Acq: 12 Jan 2023 20:55

Instrument :

BNA\_F

ClientSampleId :

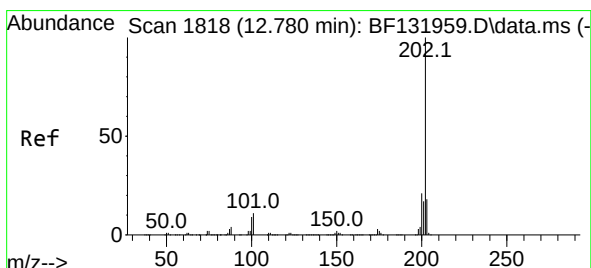
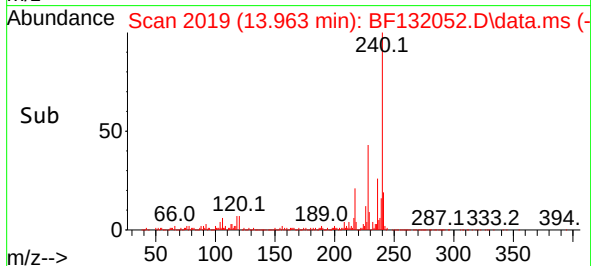
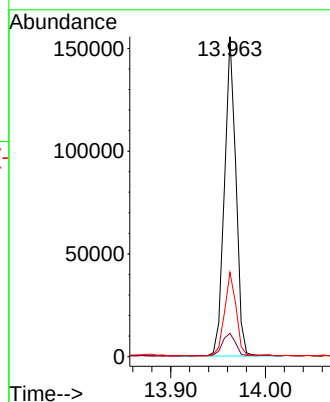
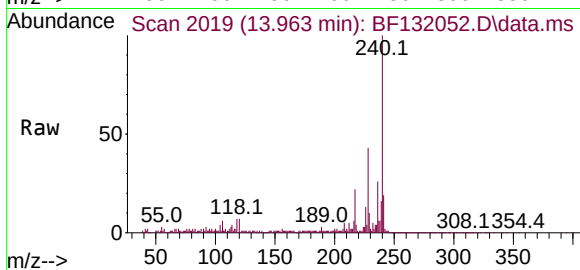
TP-C

Tgt Ion:240 Resp: 130532  
 Ion Ratio Lower Upper  
 240 100  
 120 7.3 5.4 8.0  
 236 26.3 21.1 31.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 01/13/2023  
 Supervised By :mohammad ahmed 01/13/2023



#78

Pyrene

Concen: 49.175 ng

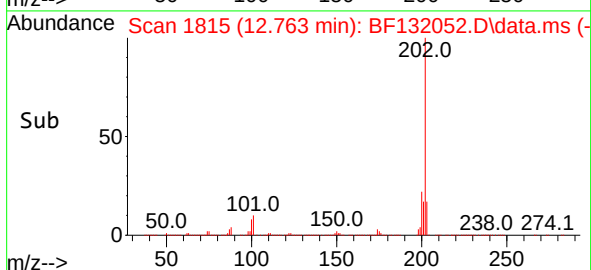
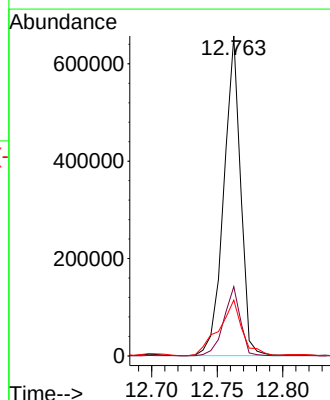
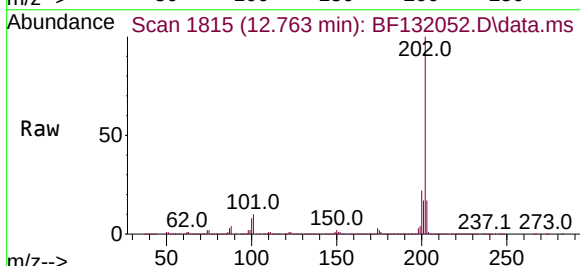
RT: 12.763 min Scan# 1815

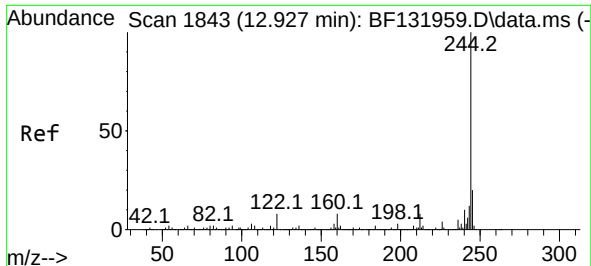
Delta R.T. -0.000 min

Lab File: BF132052.D

Acq: 12 Jan 2023 20:55

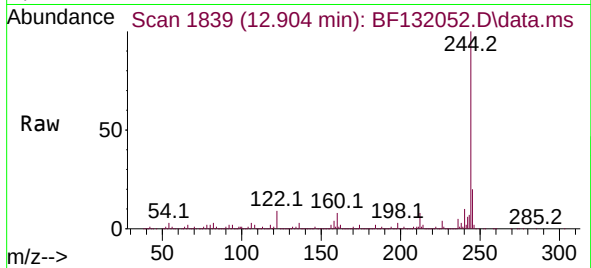
Tgt Ion:202 Resp: 585445  
 Ion Ratio Lower Upper  
 202 100  
 200 21.6 17.0 25.6  
 203 17.4 14.1 21.1





#79  
Terphenyl-d14  
Concen: 69.890 ng  
RT: 12.904 min Scan# 1843  
Delta R.T. -0.000 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

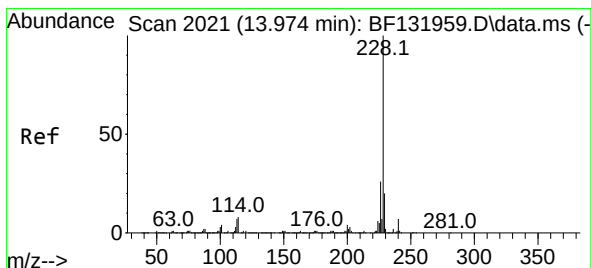
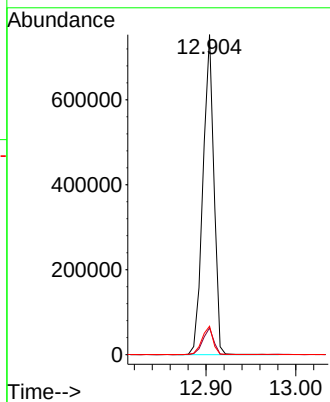
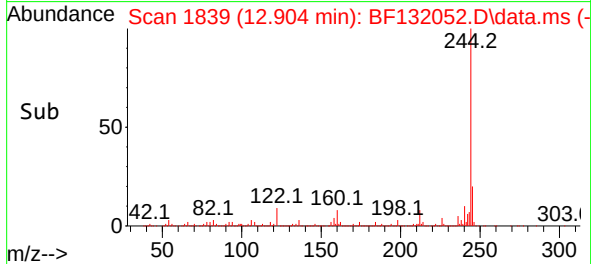
Instrument :  
BNA\_F  
ClientSampleId :  
TP-C



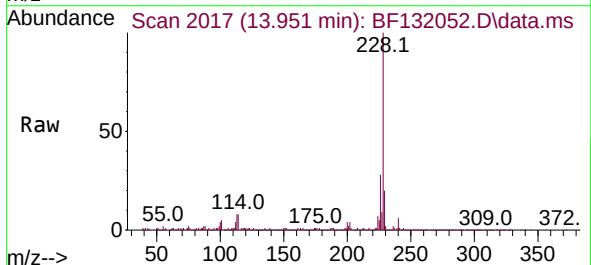
Tgt Ion:244 Resp: 636504  
Ion Ratio Lower Upper  
244 100  
212 8.3 6.3 9.5  
122 8.9 6.8 10.2

Manual Integrations  
APPROVED

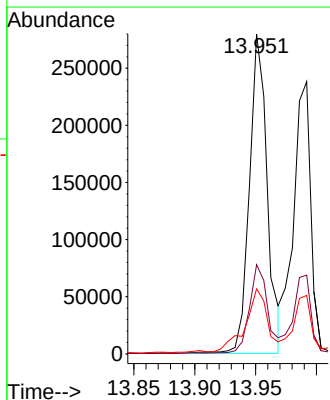
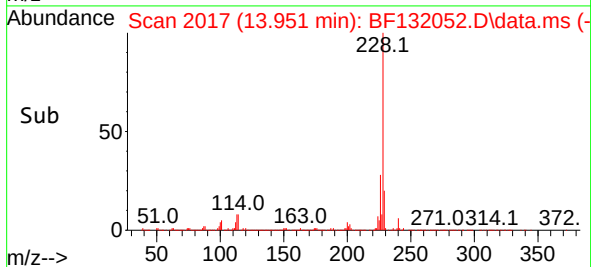
Reviewed By :Jagrut Upadhyay 01/13/2023  
Supervised By :mohammad ahmed 01/13/2023

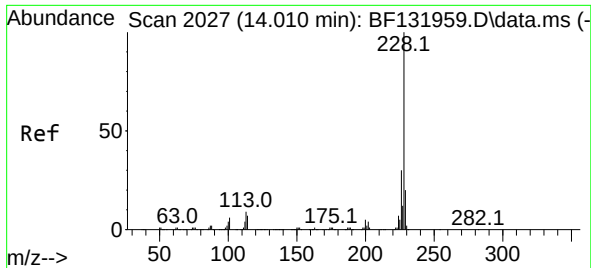


#81  
Benzo(a)anthracene  
Concen: 29.896 ng  
RT: 13.951 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55



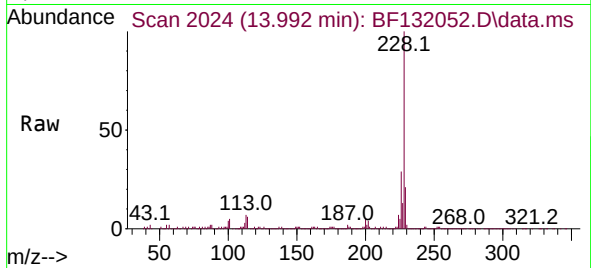
Tgt Ion:228 Resp: 283911  
Ion Ratio Lower Upper  
228 100  
226 27.9 21.0 31.4  
229 20.3 15.8 23.6





#83  
Chrysene  
Concen: 26.647 ng  
RT: 13.992 min Scan# 2027  
Delta R.T. -0.000 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

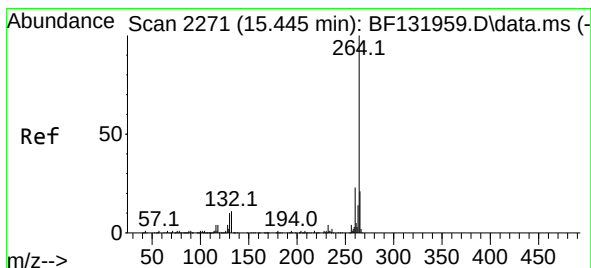
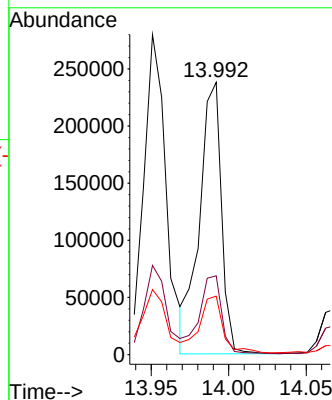
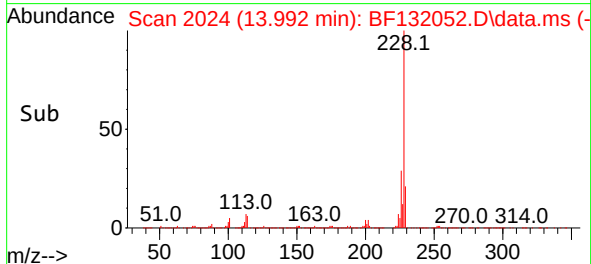
Instrument :  
BNA\_F  
ClientSampleId :  
TP-C



Tgt Ion:228 Resp: 236494  
Ion Ratio Lower Upper  
228 100  
226 28.9 24.0 36.0  
229 21.5 16.2 24.4

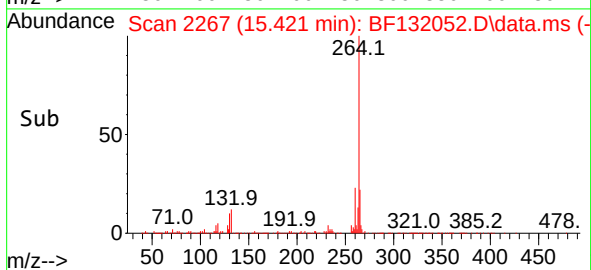
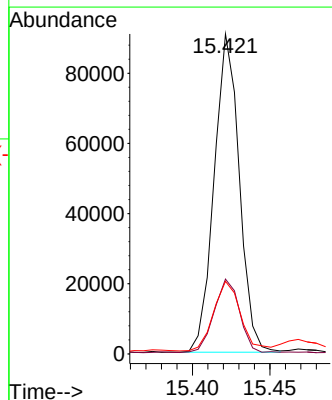
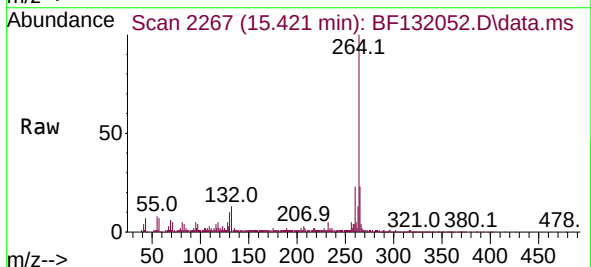
Manual Integrations  
APPROVED

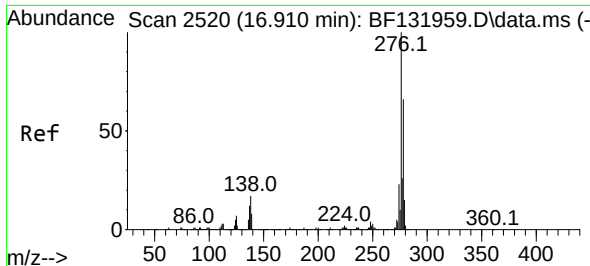
Reviewed By :Jagrut Upadhyay 01/13/2023  
Supervised By :mohammad ahmed 01/13/2023



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.421 min Scan# 2267  
Delta R.T. 0.006 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

Tgt Ion:264 Resp: 102751  
Ion Ratio Lower Upper  
264 100  
260 23.4 18.3 27.5  
265 22.7 16.9 25.3





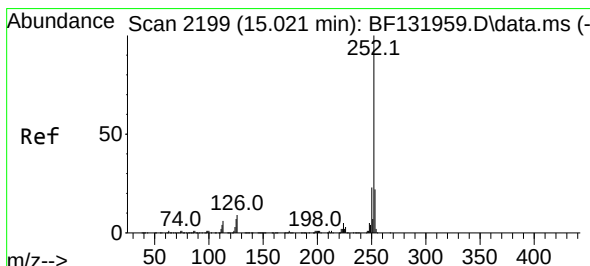
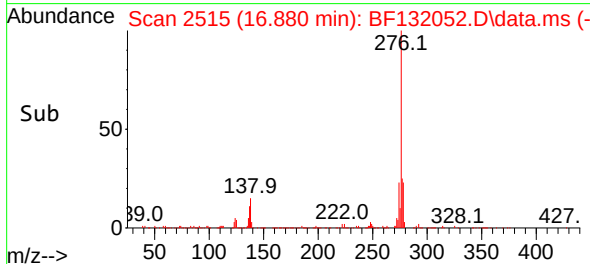
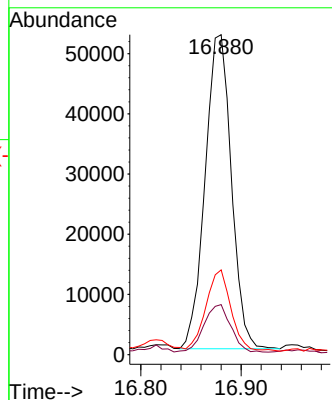
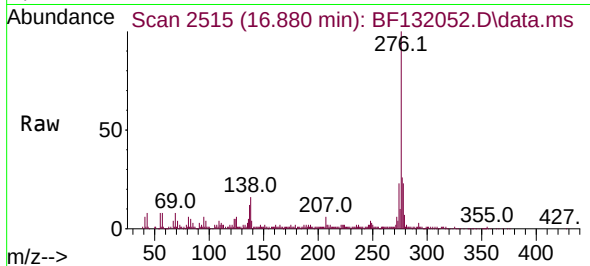
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 15.066 ng  
RT: 16.880 min Scan# 2115  
Delta R.T. -0.000 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

Instrument :  
BNA\_F  
ClientSampleId :  
TP-C

Tgt Ion:276 Resp: 94943  
Ion Ratio Lower Upper  
276 100  
138 15.9 14.2 21.2  
277 24.9 20.2 30.4

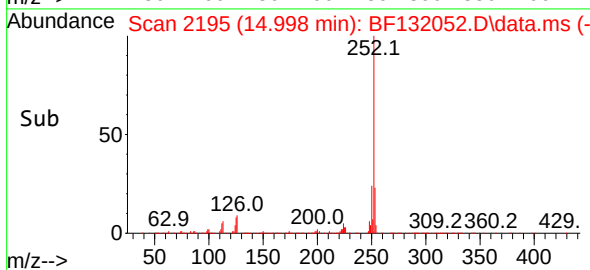
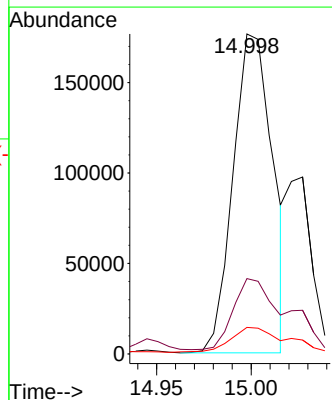
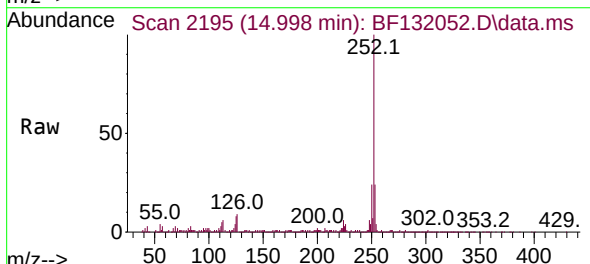
Manual Integrations  
APPROVED

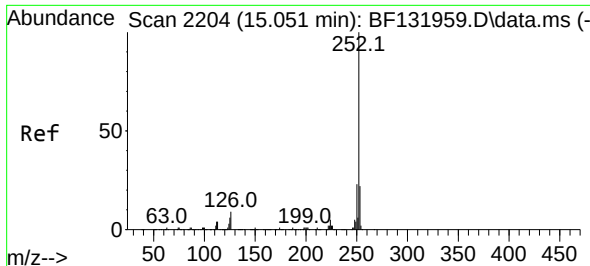
Reviewed By :Jagrut Upadhyay 01/13/2023  
Supervised By :mohammad ahmed 01/13/2023



#88  
Benzo(b)fluoranthene  
Concen: 36.513 ng m  
RT: 14.998 min Scan# 2195  
Delta R.T. -0.000 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

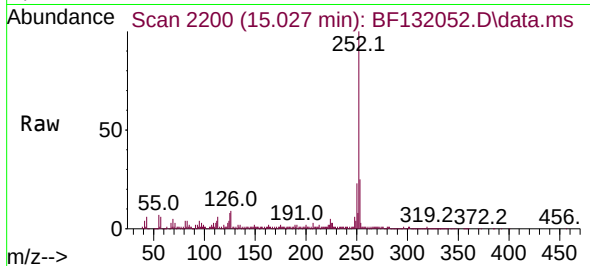
Tgt Ion:252 Resp: 257322  
Ion Ratio Lower Upper  
252 100  
253 23.5 18.0 27.0  
125 8.3 5.8 8.6





#89  
Benzo(k)fluoranthene  
Concen: 12.201 ng m  
RT: 15.027 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

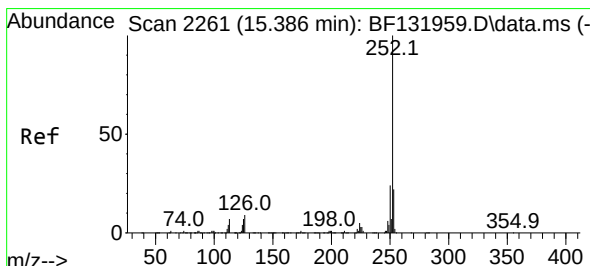
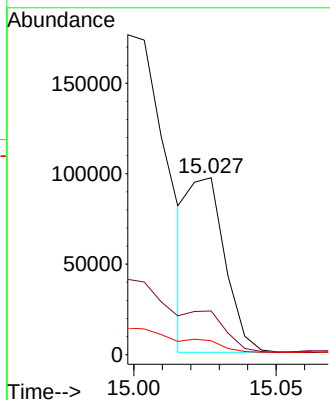
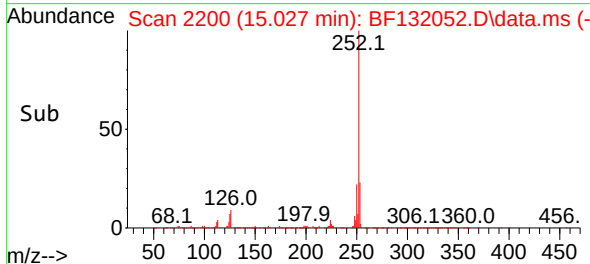
Instrument :  
BNA\_F  
ClientSampleId :  
TP-C



Tgt Ion:252 Resp: 85818  
Ion Ratio Lower Upper  
252 100  
253 24.6 17.8 26.6  
125 7.8 5.2 7.8

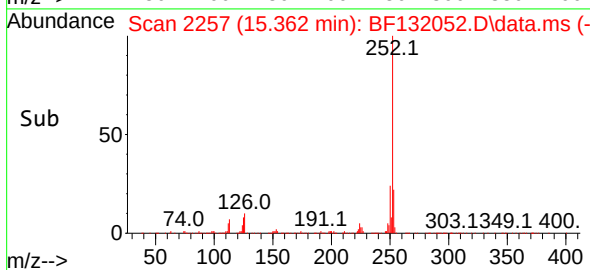
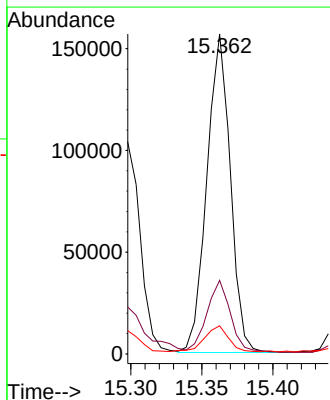
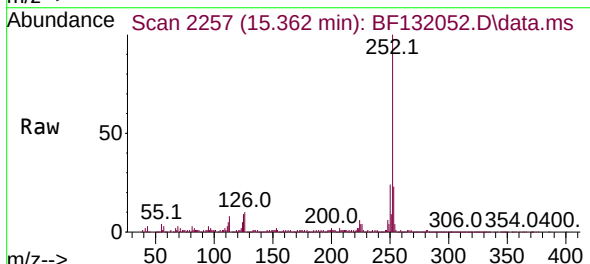
Manual Integrations  
APPROVED

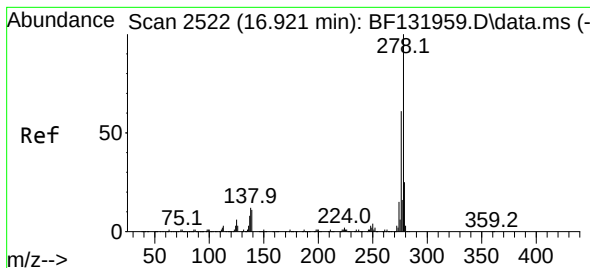
Reviewed By :Jagrut Upadhyay 01/13/2023  
Supervised By :mohammad ahmed 01/13/2023



#90  
Benzo(a)pyrene  
Concen: 28.380 ng  
RT: 15.362 min Scan# 2257  
Delta R.T. 0.006 min  
Lab File: BF132052.D  
Acq: 12 Jan 2023 20:55

Tgt Ion:252 Resp: 180204  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.4 26.0  
125 8.8 5.7 8.5





#91

Dibenzo(a,h)anthracene

Concen: 4.694 ng m

RT: 16.880 min Scan# 2515

Delta R.T. -0.006 min

Lab File: BF132052.D

Acq: 12 Jan 2023 20:55

Instrument :

BNA\_F

ClientSampleId :

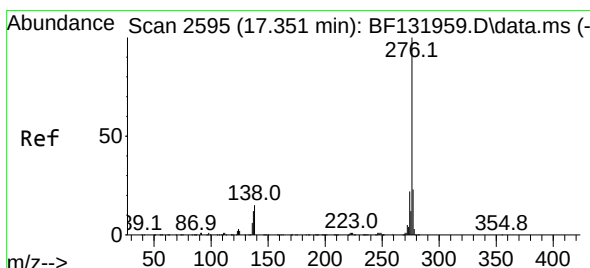
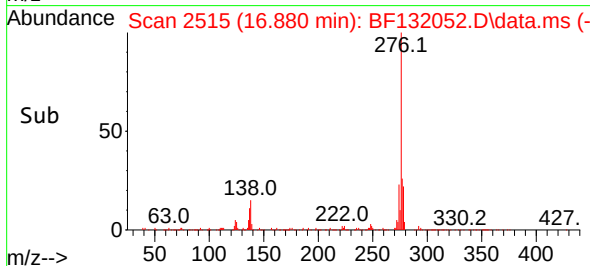
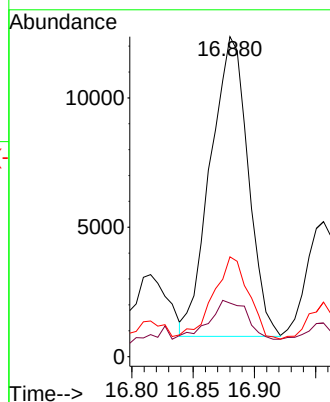
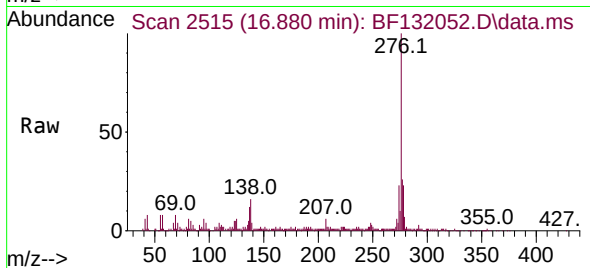
TP-C

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 2479 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 16.7  | 8.8   | 13.2 |
| 279       | 31.2  | 19.8  | 29.6 |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 01/13/2023  
Supervised By :mohammad ahmed 01/13/2023



#92

Benzo(g,h,i)perylene

Concen: 18.235 ng

RT: 17.315 min Scan# 2589

Delta R.T. -0.000 min

Lab File: BF132052.D

Acq: 12 Jan 2023 20:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 89800 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.8  | 18.2  | 27.2  |
| 138       | 16.9  | 11.7  | 17.5  |

