

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP062923\  
 Data File : BP015823.D  
 Acq On : 29 Jun 2023 22:36  
 Operator : MA/JU  
 Sample : 03161-14  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 DCFX0

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/30/2023  
 Supervised By :mohammad ahmed 06/30/2023

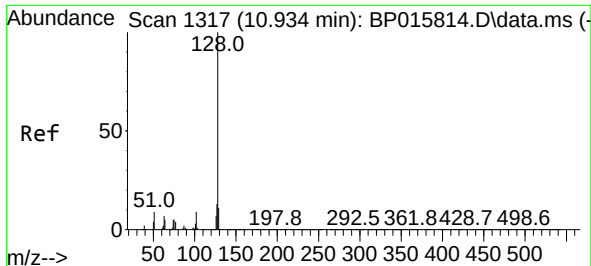
Quant Time: Jun 30 00:21:18 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP062623.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jun 29 02:30:23 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.058  | 152  | 334348   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.881 | 136  | 1394925  | 20.000 | ng/u1  | # 0.00   |
| 38) Acenaphthene-d10          | 14.704 | 164  | 784729   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.463 | 188  | 1458578  | 20.000 | ng/u1  | # 0.00   |
| 79) Chrysene-d12              | 21.551 | 240  | 1023177  | 20.000 | ng/u1  | # 0.00   |
| 88) Perylene-d12              | 24.092 | 264  | 1249800  | 20.000 | ng/u1  | -0.01    |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.381  | 96   | 31413    | 3.380  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.828  | 84   | 285916   | 12.205 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.234  | 99   | 493652   | 17.256 | ng/u1  | 0.01     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.381  | 67   | 359636   | 20.320 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.587  | 132  | 407088   | 18.851 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.793  | 113  | 243375   | 10.769 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.246  | 128  | 200650   | 18.822 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.969  | 143  | 219677   | 17.656 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.540 | 165  | 347403   | 15.669 | ng/u1  | 0.02     |
| 31) 4-Chloroaniline-d4        | 11.075 | 131  | 109683   | 3.851  | ng/u1  | 0.04     |
| 46) Dimethylphthalate-d6      | 14.110 | 166  | 1147176  | 18.914 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.398 | 160  | 1304548  | 19.133 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.987 | 143  | 103311   | 12.907 | ng/u1  | 0.04     |
| 60) Fluorene-d10              | 15.698 | 176  | 935121   | 18.724 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.863 | 200  | 106752   | 11.901 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.563 | 188  | 1258056  | 18.883 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.792 | 212  | 1264107  | 18.921 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.927 | 264  | 1177104  | 18.671 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 30) Naphthalene               | 10.934 | 128  | 195791   | 2.582  | ng/u1  | 99       |
| 36) 2-Methylnaphthalene       | 12.551 | 142  | 84668    | 1.696  | ng/u1  | 93       |
| 37) 1-Methylnaphthalene       | 12.763 | 142  | 77764    | 1.527  | ng/u1  | 98       |
| 50) Acenaphthylene            | 14.428 | 152  | 474789   | 6.320  | ng/u1  | 99       |
| 52) Acenaphthene              | 14.769 | 153  | 105627   | 2.028  | ng/u1  | 98       |
| 61) Fluorene                  | 15.757 | 166  | 112184   | 1.912  | ng/u1  | 98       |
| 71) Pentachlorophenol         | 17.139 | 266  | 9863     | 1.046  | ng/u1  | 98       |
| 72) Phenanthrene              | 17.504 | 178  | 879294   | 11.097 | ng/u1  | 100      |
| 74) Anthracene                | 17.604 | 178  | 390956   | 4.910  | ng/u1  | 99       |
| 80) Fluoranthene              | 19.463 | 202  | 2614652  | 31.489 | ng/u1# | 92       |
| 82) Pyrene                    | 19.816 | 202  | 2128083  | 25.125 | ng/u1# | 89       |
| 85) Benzo(a)anthracene        | 21.533 | 228  | 1291509  | 17.944 | ng/u1  | 97       |
| 87) Chrysene                  | 21.586 | 228  | 1306138  | 19.127 | ng/u1  | 98       |
| 90) Benzo(b)fluoranthene      | 23.310 | 252  | 2473589  | 30.802 | ng/u1# | 95       |
| 91) Benzo(k)fluoranthene      | 23.357 | 252  | 769228m  | 9.481  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 23.980 | 252  | 1552540  | 22.126 | ng/u1# | 95       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.786 | 276  | 1544748  | 16.217 | ng/u1# | 96       |
| 95) Dibenzo(a,h)anthracene    | 26.786 | 278  | 460360   | 5.884  | ng/u1# | 82       |
| 96) Benzo(g,h,i)perylene      | 27.627 | 276  | 1369893  | 17.481 | ng/u1# | 94       |
| -----                         |        |      |          |        |        |          |

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

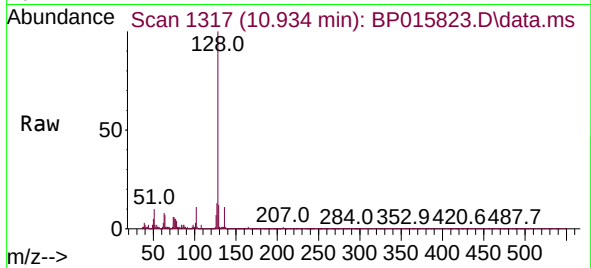
## Manual Integrations

Reviewed By :Yogesh Patel 06/30/2023  
Supervised By :mohammad ahmed 06/30/2023



#30  
Naphthalene  
Concen: 2.582 ng/ul  
RT: 10.934 min Scan# 1317  
Delta R.T. -0.000 min  
Lab File: BP015823.D  
Acq: 29 Jun 2023 22:36

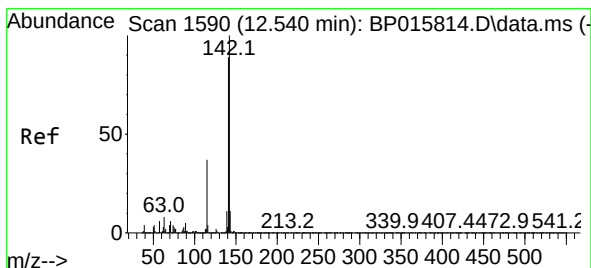
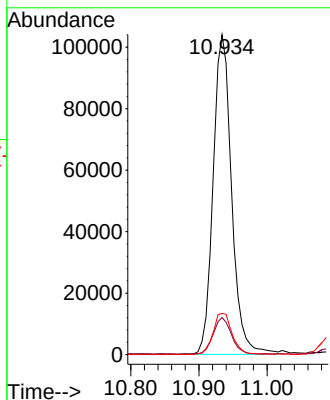
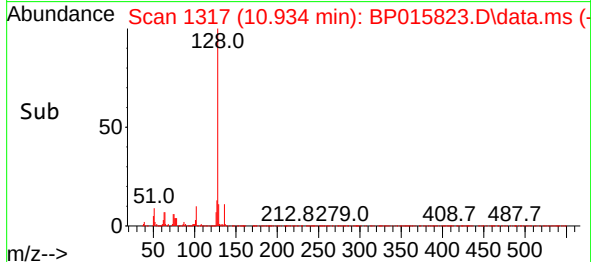
Instrument :  
BNA\_P  
ClientSampleId :  
DCFX0



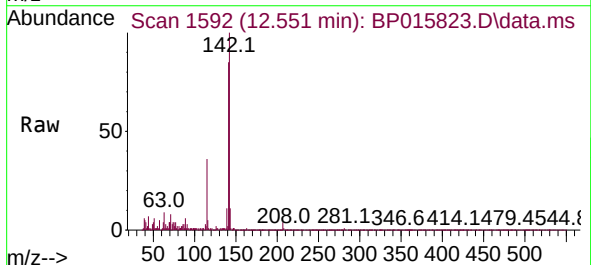
Tgt Ion:128 Resp: 19579  
Ion Ratio Lower Upper  
128 100  
129 11.6 8.6 12.8  
127 12.9 10.3 15.5

Manual Integrations  
APPROVED

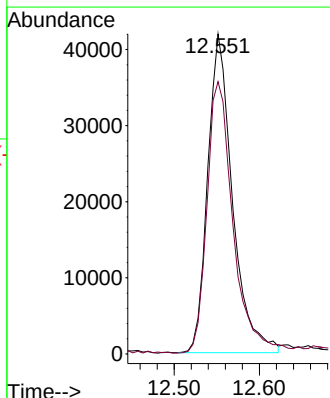
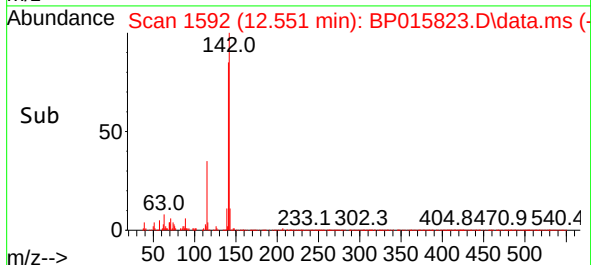
Reviewed By :Yogesh Patel 06/30/2023  
Supervised By :mohammad ahmed 06/30/2023

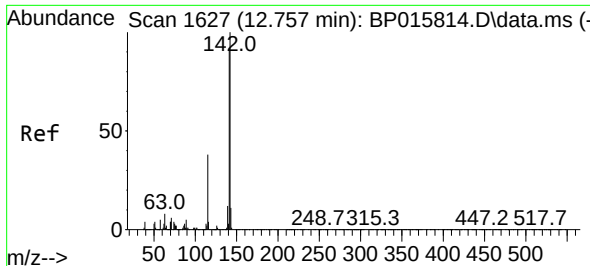


#36  
2-Methylnaphthalene  
Concen: 1.696 ng/ul  
RT: 12.551 min Scan# 1592  
Delta R.T. 0.012 min  
Lab File: BP015823.D  
Acq: 29 Jun 2023 22:36



Tgt Ion:142 Resp: 84668  
Ion Ratio Lower Upper  
142 100  
141 85.1 73.2 109.8





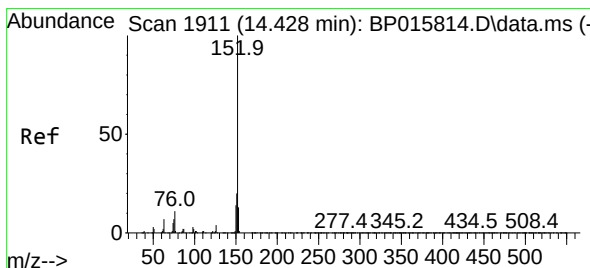
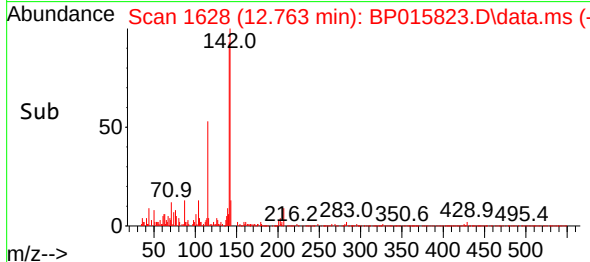
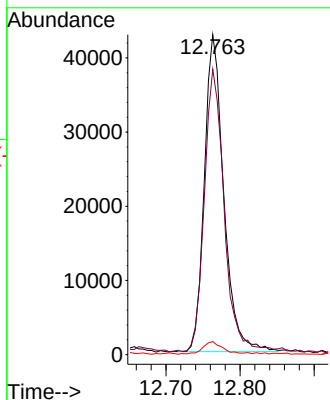
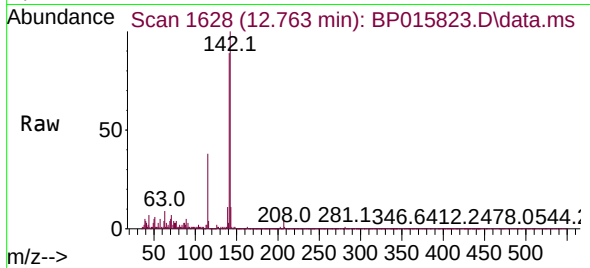
#37  
1-Methylnaphthalene  
Concen: 1.527 ng/ul  
RT: 12.763 min Scan# 1627  
Delta R.T. 0.006 min  
Lab File: BP015823.D  
Acq: 29 Jun 2023 22:36

Instrument :  
BNA\_P  
ClientSampleId :  
DCFX0

Tgt Ion:142 Resp: 77764  
Ion Ratio Lower Upper  
142 100  
141 89.2 73.1 109.7  
116 4.1 4.0 6.0

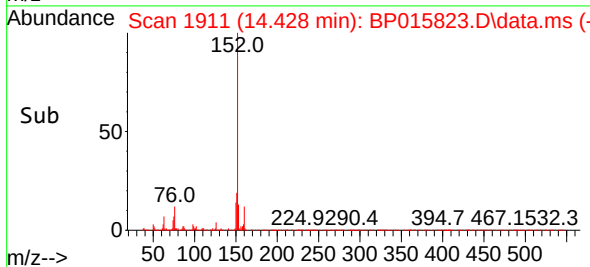
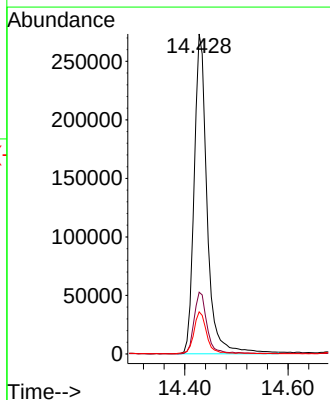
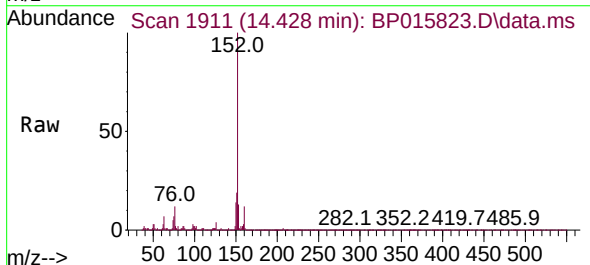
Manual Integrations  
APPROVED

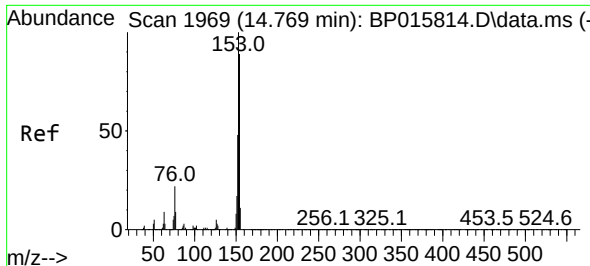
Reviewed By :Yogesh Patel 06/30/2023  
Supervised By :mohammad ahmed 06/30/2023



#50  
Acenaphthylene  
Concen: 6.320 ng/ul  
RT: 14.428 min Scan# 1911  
Delta R.T. -0.000 min  
Lab File: BP015823.D  
Acq: 29 Jun 2023 22:36

Tgt Ion:152 Resp: 474789  
Ion Ratio Lower Upper  
152 100  
151 19.3 16.2 24.2  
153 13.1 10.5 15.7





#52  
Acenaphthene  
Concen: 2.028 ng/ul  
RT: 14.769 min Scan# 1969  
Delta R.T. -0.000 min  
Lab File: BP015823.D  
Acq: 29 Jun 2023 22:36

Instrument :

BNA\_P

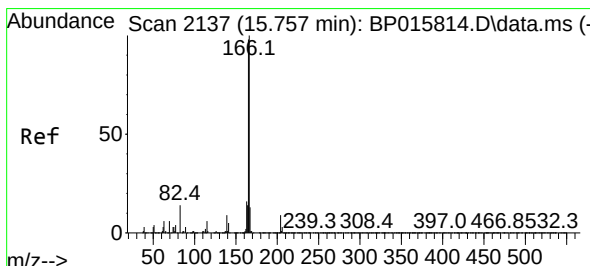
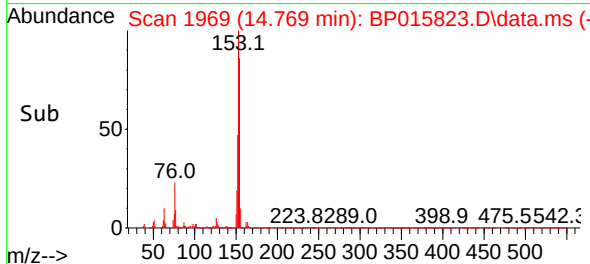
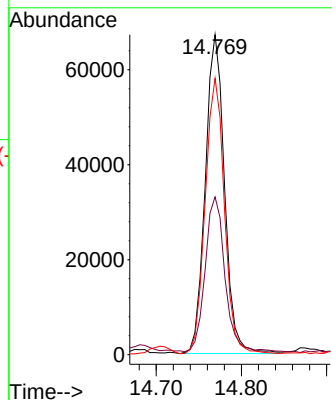
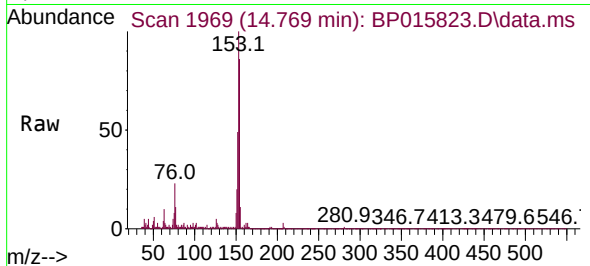
ClientSampleId :

DCFX0

Tgt Ion:153 Resp: 10562  
Ion Ratio Lower Upper  
153 100  
152 49.3 39.4 59.2  
154 86.4 71.4 107.2

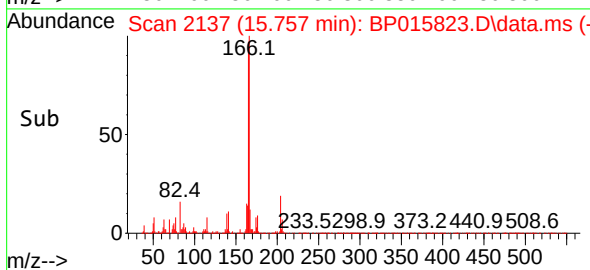
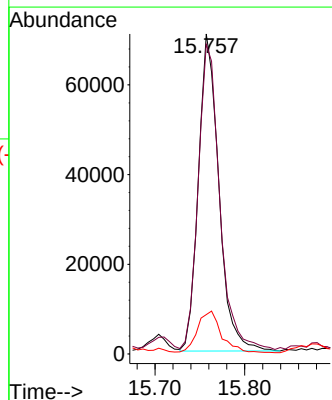
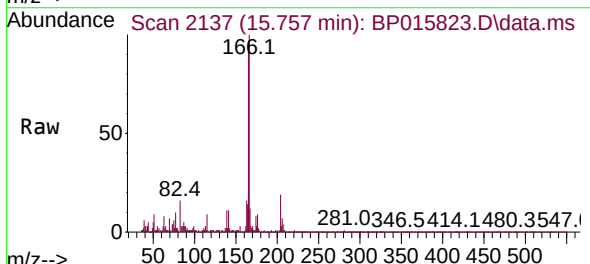
Manual Integrations  
APPROVED

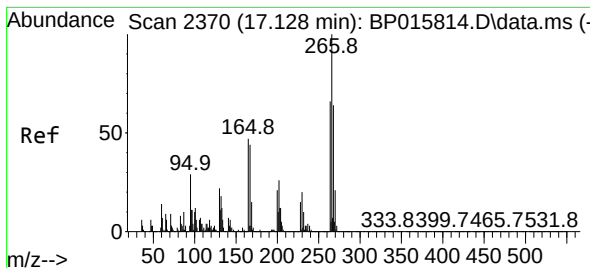
Reviewed By :Yogesh Patel 06/30/2023  
Supervised By :mohammad ahmed 06/30/2023



#61  
Fluorene  
Concen: 1.912 ng/ul  
RT: 15.757 min Scan# 2137  
Delta R.T. -0.000 min  
Lab File: BP015823.D  
Acq: 29 Jun 2023 22:36

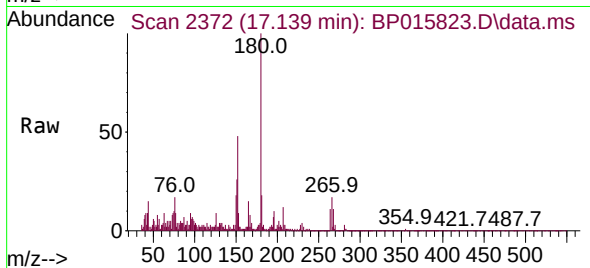
Tgt Ion:166 Resp: 112184  
Ion Ratio Lower Upper  
166 100  
165 96.8 78.7 118.1  
167 12.3 10.5 15.7





#71  
Pentachlorophenol  
Concen: 1.046 ng/ul  
RT: 17.139 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: BP015823.D  
Acq: 29 Jun 2023 22:36

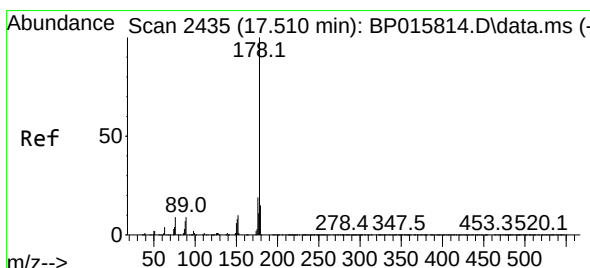
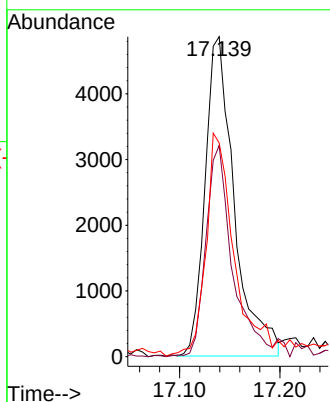
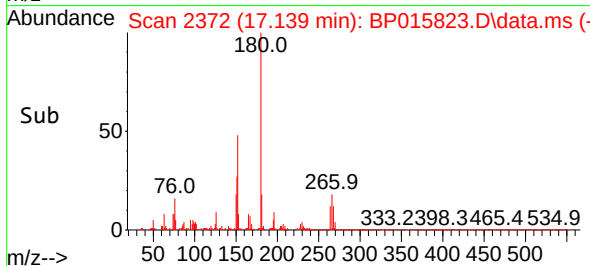
Instrument :  
BNA\_P  
ClientSampleId :  
DCFX0



Tgt Ion:266 Resp: 986  
Ion Ratio Lower Upper  
266 100  
264 66.0 53.4 80.2  
268 66.8 51.4 77.2

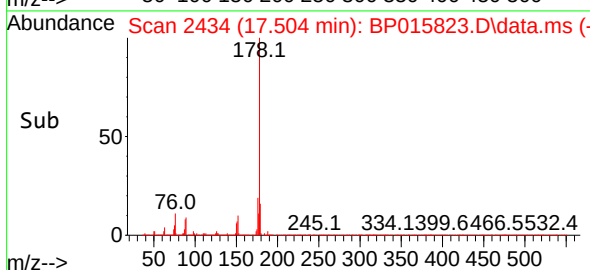
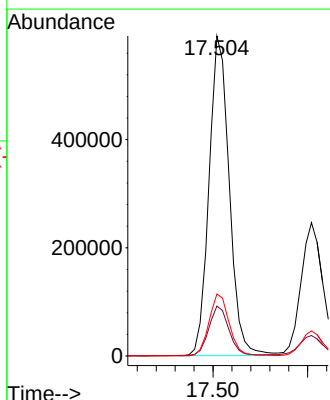
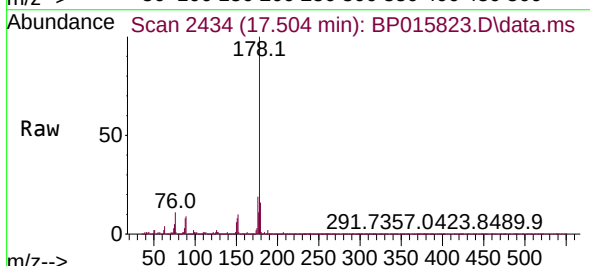
Manual Integrations  
APPROVED

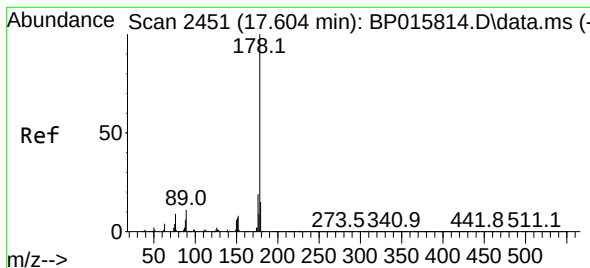
Reviewed By :Yogesh Patel 06/30/2023  
Supervised By :mohammad ahmed 06/30/2023



#72  
Phenanthrene  
Concen: 11.097 ng/ul  
RT: 17.504 min Scan# 2434  
Delta R.T. -0.006 min  
Lab File: BP015823.D  
Acq: 29 Jun 2023 22:36

Tgt Ion:178 Resp: 879294  
Ion Ratio Lower Upper  
178 100  
179 15.6 12.4 18.6  
176 19.4 15.6 23.4





#74

Anthracene

Concen: 4.910 ng/ul

RT: 17.604 min Scan# 2451

Delta R.T. -0.000 min

Lab File: BP015823.D

Acq: 29 Jun 2023 22:36

Instrument :

BNA\_P

ClientSampleId :

DCFX0

Tgt Ion:178 Resp: 390950

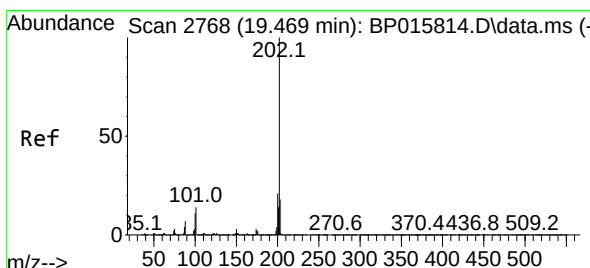
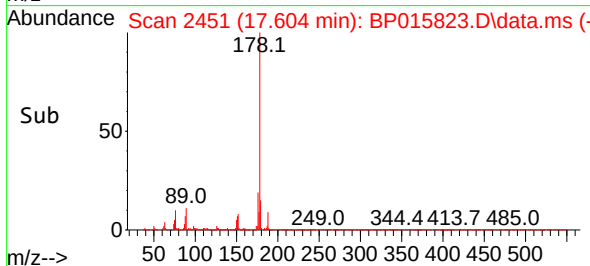
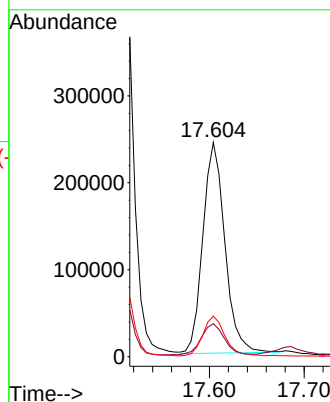
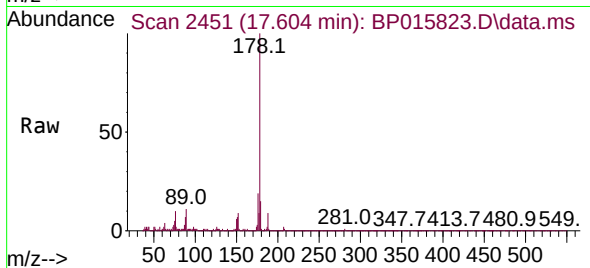
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.4  | 12.1  | 18.1  |
| 176 | 18.9  | 14.6  | 22.0  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/30/2023

Supervised By :mohammad ahmed 06/30/2023



#80

Fluoranthene

Concen: 31.489 ng/ul

RT: 19.463 min Scan# 2767

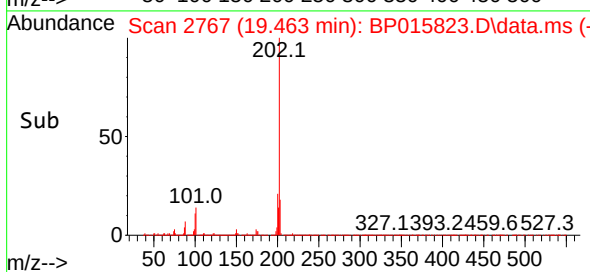
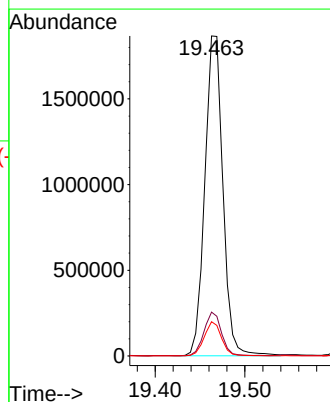
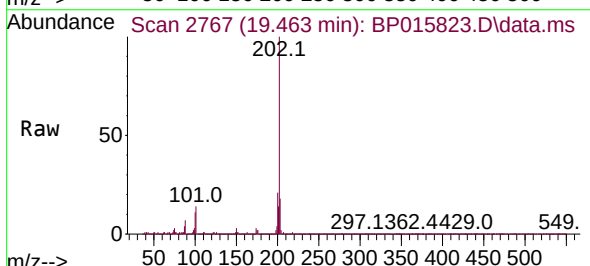
Delta R.T. -0.012 min

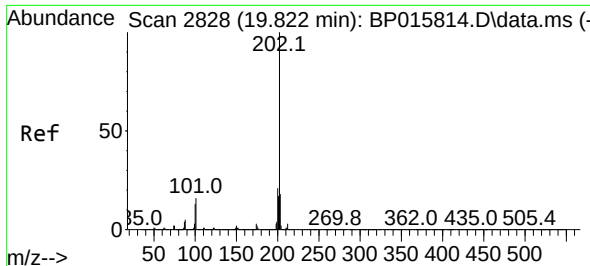
Lab File: BP015823.D

Acq: 29 Jun 2023 22:36

Tgt Ion:202 Resp: 2614652

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 13.7  | 8.3   | 12.5# |
| 100 | 10.7  | 6.6   | 9.8#  |





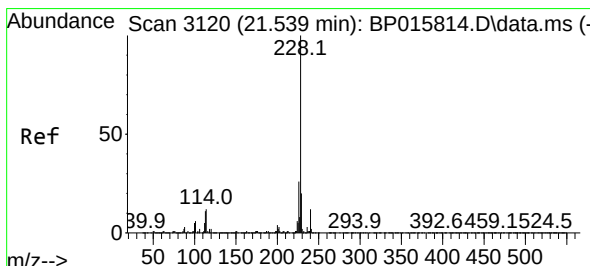
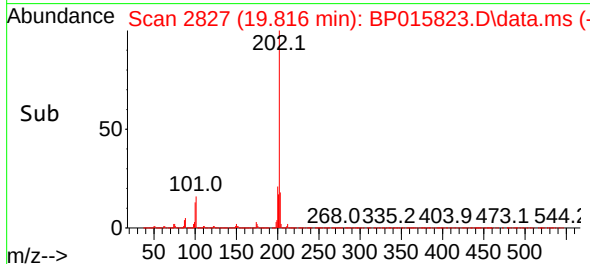
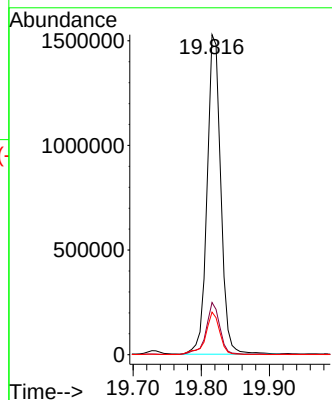
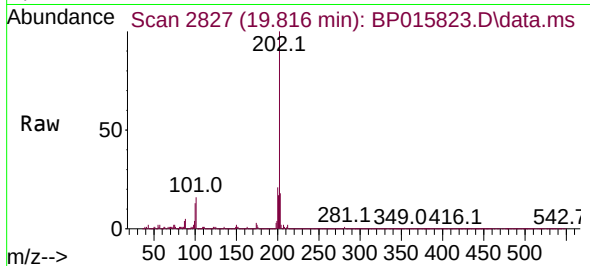
#82  
Pyrene  
Concen: 25.125 ng/ul  
RT: 19.816 min Scan# 2119  
Delta R.T. -0.012 min  
Lab File: BP015823.D  
Acq: 29 Jun 2023 22:36

Instrument :  
BNA\_P  
ClientSampleId :  
DCFX0

Tgt Ion:202 Resp: 212808  
Ion Ratio Lower Upper  
202 100  
101 16.3 9.3 13.9  
100 13.3 7.6 11.4

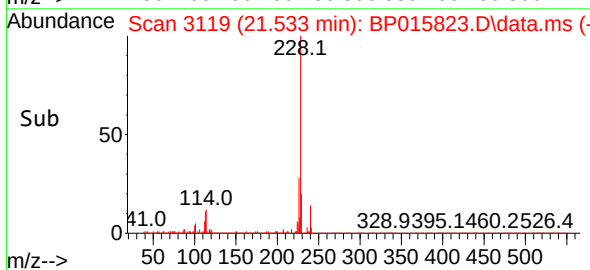
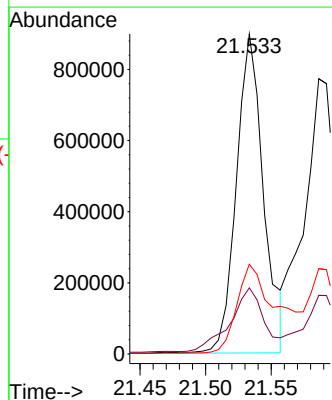
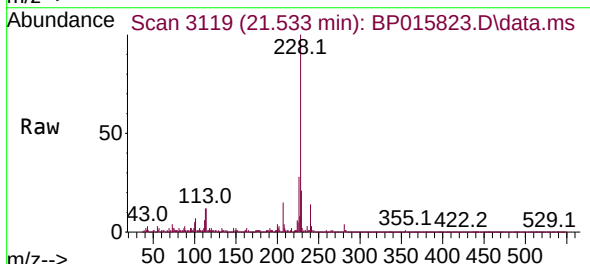
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/30/2023  
Supervised By :mohammad ahmed 06/30/2023

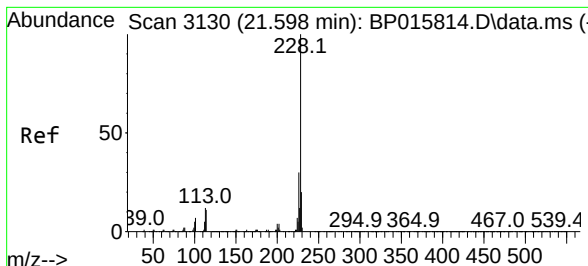


#85  
Benzo(a)anthracene  
Concen: 17.944 ng/ul  
RT: 21.533 min Scan# 3119  
Delta R.T. -0.006 min  
Lab File: BP015823.D  
Acq: 29 Jun 2023 22:36

Tgt Ion:228 Resp: 1291509  
Ion Ratio Lower Upper  
228 100  
229 20.6 15.3 22.9  
226 28.0 21.4 32.0







#87

Chrysene

Concen: 19.127 ng/ul

RT: 21.586 min Scan# 3130

Delta R.T. -0.012 min

Lab File: BP015823.D

Acq: 29 Jun 2023 22:36

Instrument :

BNA\_P

ClientSampleId :

DCFX0

Tgt Ion:228 Resp: 1306138

Ion Ratio Lower Upper

228 100

226 31.0 24.3 36.5

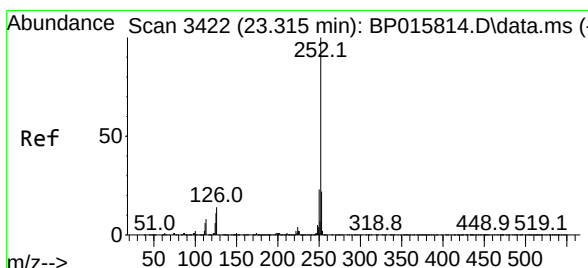
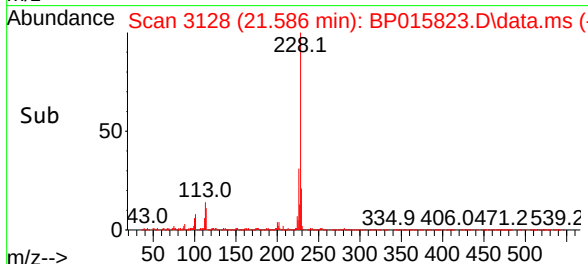
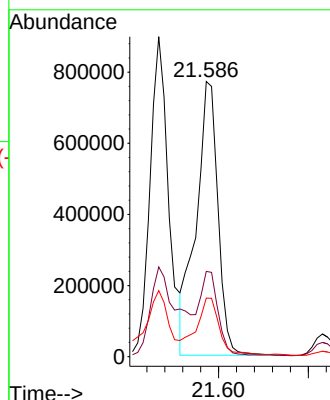
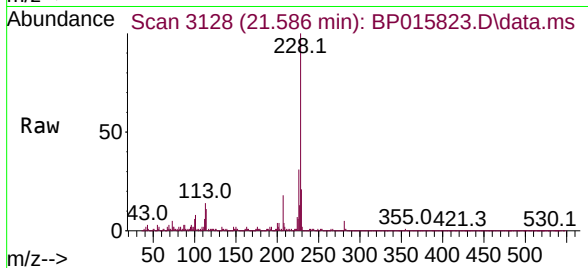
229 21.3 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/30/2023

Supervised By :mohammad ahmed 06/30/2023



#90

Benzo(b)fluoranthene

Concen: 30.802 ng/ul

RT: 23.310 min Scan# 3421

Delta R.T. -0.006 min

Lab File: BP015823.D

Acq: 29 Jun 2023 22:36

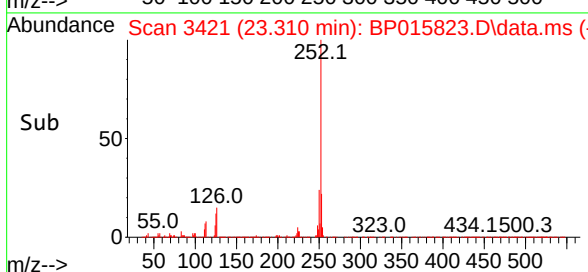
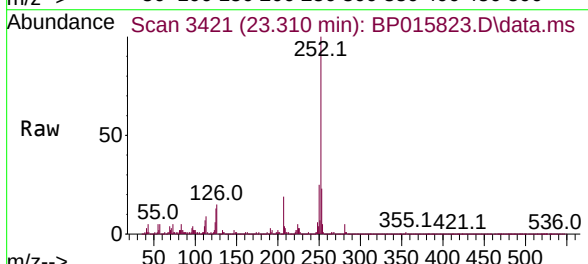
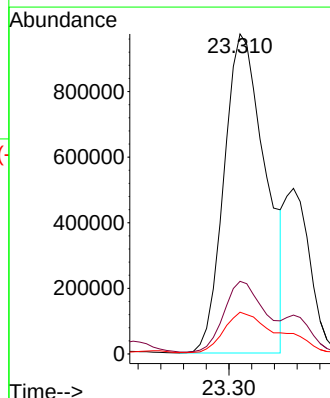
Tgt Ion:252 Resp: 2473589

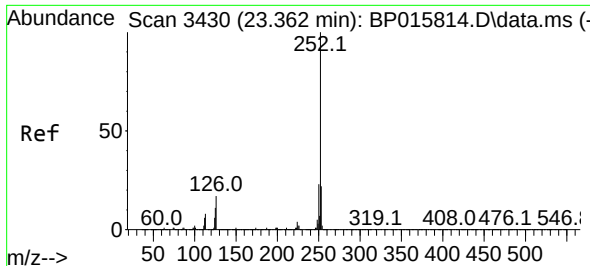
Ion Ratio Lower Upper

252 100

253 22.7 17.3 25.9

125 13.0 7.5 11.3#





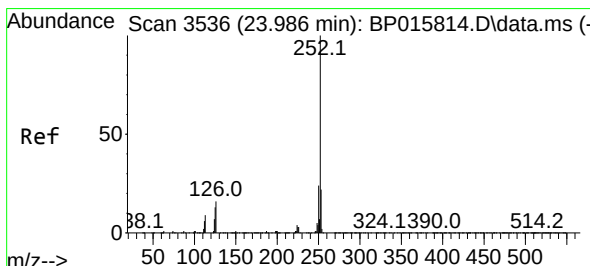
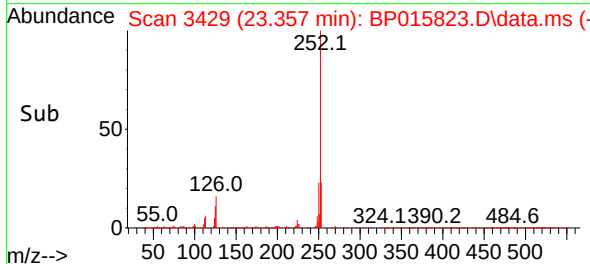
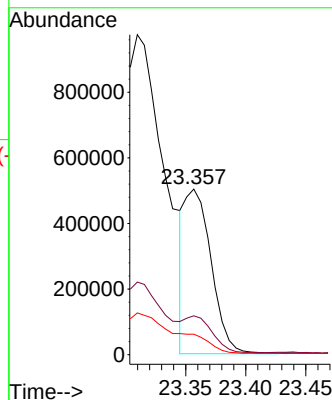
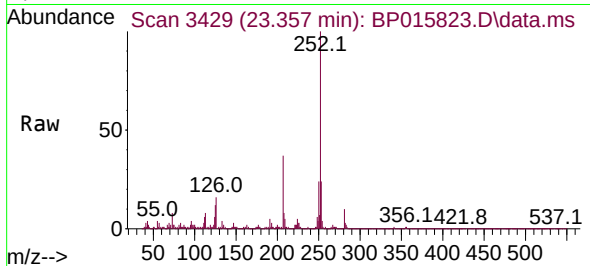
#91  
Benzo(k)fluoranthene  
Concen: 9.481 ng/ul m  
RT: 23.357 min Scan# 3430  
Delta R.T. -0.012 min  
Lab File: BP015823.D  
Acq: 29 Jun 2023 22:36

Instrument :  
BNA\_P  
ClientSampleId :  
DCFX0

Tgt Ion:252 Resp: 769228  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.0 25.4  
125 12.4 7.3 10.9

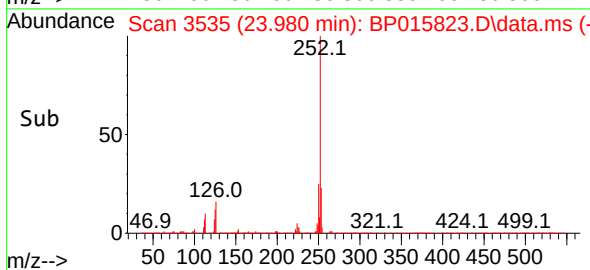
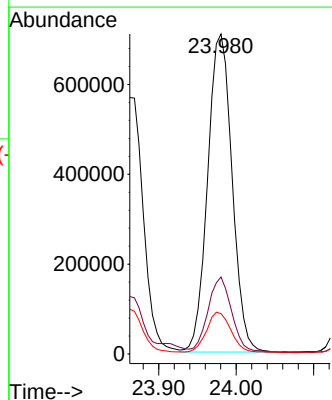
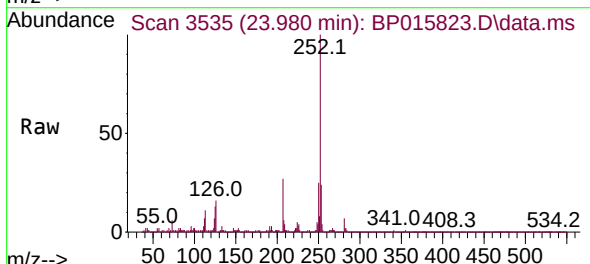
Manual Integrations  
APPROVED

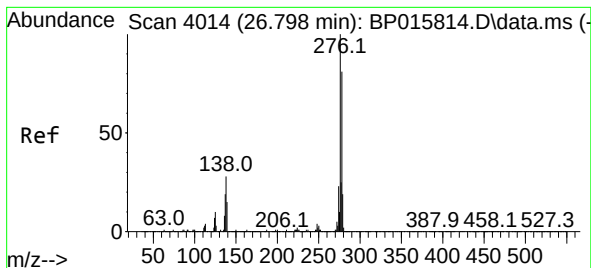
Reviewed By :Yogesh Patel 06/30/2023  
Supervised By :mohammad ahmed 06/30/2023



#93  
Benzo(a)pyrene  
Concen: 22.126 ng/ul  
RT: 23.980 min Scan# 3535  
Delta R.T. -0.006 min  
Lab File: BP015823.D  
Acq: 29 Jun 2023 22:36

Tgt Ion:252 Resp: 1552540  
Ion Ratio Lower Upper  
252 100  
253 24.0 17.7 26.5  
125 12.6 8.2 12.2





#94

Indeno(1,2,3-cd)pyrene

Concen: 16.217 ng/ul

RT: 26.786 min Scan# 4012

Delta R.T. -0.012 min

Lab File: BP015823.D

Acq: 29 Jun 2023 22:36

Instrument :

BNA\_P

ClientSampleId :

DCFX0

Tgt Ion:276 Resp: 154474

Ion Ratio Lower Upper

276 100

138 23.7 15.7 23.5

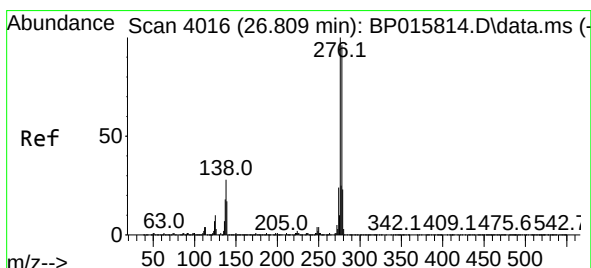
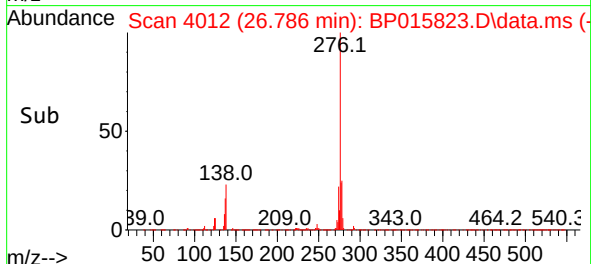
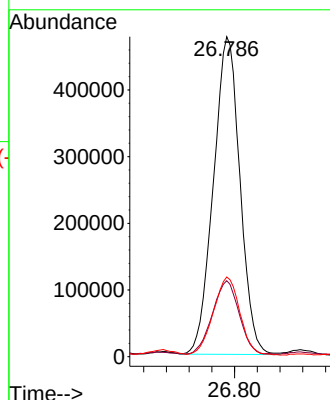
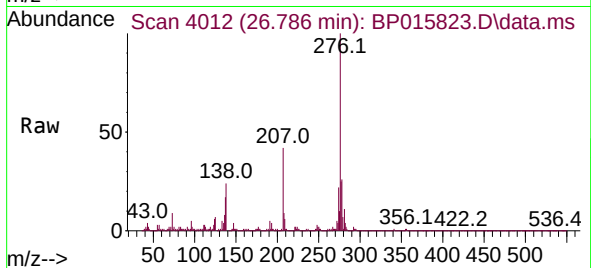
277 24.9 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/30/2023

Supervised By :mohammad ahmed 06/30/2023



#95

Dibenzo(a,h)anthracene

Concen: 5.884 ng/ul

RT: 26.786 min Scan# 4012

Delta R.T. -0.024 min

Lab File: BP015823.D

Acq: 29 Jun 2023 22:36

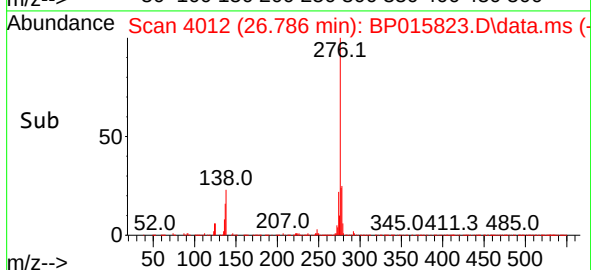
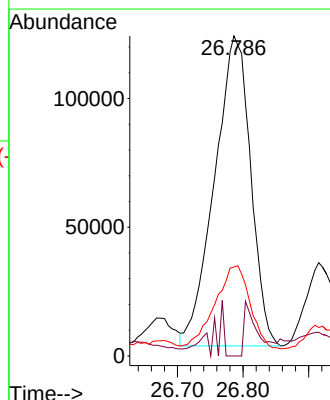
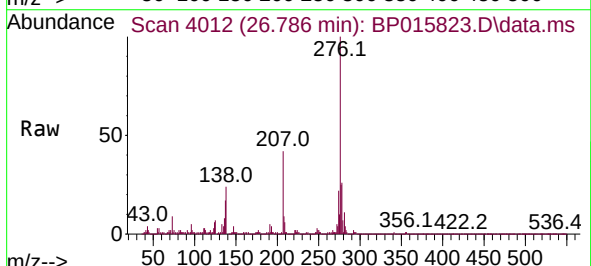
Tgt Ion:278 Resp: 460360

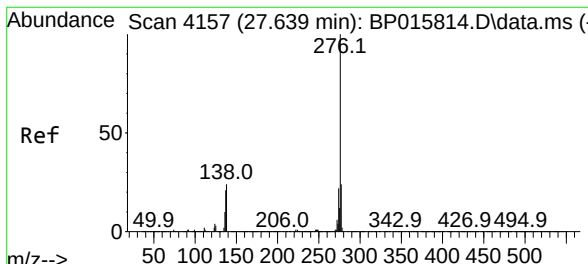
Ion Ratio Lower Upper

278 100

139 0.0 10.5 15.7#

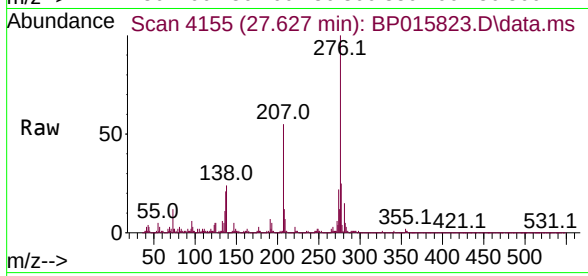
279 27.8 18.4 27.6#





#96  
 Benzo(g,h,i)perylene  
 Concen: 17.481 ng/ul  
 RT: 27.627 min Scan# 4155  
 Delta R.T. -0.006 min  
 Lab File: BP015823.D  
 Acq: 29 Jun 2023 22:36

Instrument :  
 BNA\_P  
 ClientSampleId :  
 DCFX0



Tgt Ion:276 Resp: 136989

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 23.6  | 15.1  | 22.7  |
| 277 | 24.6  | 18.8  | 28.2  |

Manual Integrations  
**APPROVED**  
 Reviewed By :Yogesh Patel 06/30/2023  
 Supervised By :mohammad ahmed 06/30/2023

