

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN101422\  
 Data File : BN022137.D  
 Acq On : 14 Oct 2022 23:44  
 Operator : CG/JU  
 Sample : N5023-16  
 Misc :  
 ALS Vial : 55 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0BC6

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 10/15/2022  
 Supervised By :mohammad ahmed 10/16/2022

Quant Time: Oct 15 02:00:23 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN101222.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Oct 13 03:08:08 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.952  | 152  | 160288   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.787 | 136  | 741010   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.628 | 164  | 451057   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.386 | 188  | 915823   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.580 | 240  | 756115   | 20.000 | ng/u1  | -0.01    |
| 88) Perylene-d12              | 24.045 | 264  | 610192   | 20.000 | ng/u1  | -0.01    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.252  | 96   | 17406    | 4.116  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.699  | 84   | 69773    | 5.304  | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.110  | 99   | 379688   | 24.231 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.281  | 67   | 232966   | 23.725 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.475  | 132  | 288249   | 26.531 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.675  | 113  | 296898   | 23.845 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.134  | 128  | 149552   | 27.524 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.863  | 143  | 162774   | 29.228 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.398 | 165  | 279196   | 26.708 | ng/u1  | -0.01    |
| 31) 4-Chloroaniline-d4        | 10.928 | 131  | 342180   | 20.021 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.039 | 166  | 836237   | 26.596 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.322 | 160  | 975841   | 27.793 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.828 | 143  | 132019   | 19.671 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.622 | 176  | 732668   | 27.627 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.745 | 200  | 56370    | 10.789 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.480 | 188  | 1136753  | 28.563 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.786 | 212  | 1230804  | 32.695 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.892 | 264  | 854719   | 28.562 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 8) Phenol                     | 7.140  | 94   | 19345    | 1.163  | ng/u1  | 97       |
| 72) Phenanthrene              | 17.427 | 178  | 369469   | 7.479  | ng/u1  | 98       |
| 74) Anthracene                | 17.516 | 178  | 53644    | 1.093  | ng/u1  | 97       |
| 77) Carbazole                 | 17.792 | 167  | 47667    | 1.050  | ng/u1  | 98       |
| 80) Fluoranthene              | 19.445 | 202  | 1006395  | 21.297 | ng/u1  | 97       |
| 82) Pyrene                    | 19.816 | 202  | 843699   | 17.066 | ng/u1  | 96       |
| 85) Benzo(a)anthracene        | 21.563 | 228  | 394463   | 8.165  | ng/u1# | 95       |
| 87) Chrysene                  | 21.621 | 228  | 460446   | 9.917  | ng/u1  | 95       |
| 90) Benzo(b)fluoranthene      | 23.292 | 252  | 505364   | 13.131 | ng/u1  | 99       |
| 91) Benzo(k)fluoranthene      | 23.333 | 252  | 173968m  | 4.575  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 23.933 | 252  | 341927   | 9.941  | ng/u1  | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.639 | 276  | 221983   | 5.163  | ng/u1  | 92       |
| 95) Dibenzo(a,h)anthracene    | 26.651 | 278  | 67202m   | 1.747  | ng/u1  |          |
| 96) Benzo(g,h,i)perylene      | 27.433 | 276  | 214440   | 5.544  | ng/u1  | 98       |
| -----                         |        |      |          |        |        |          |

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

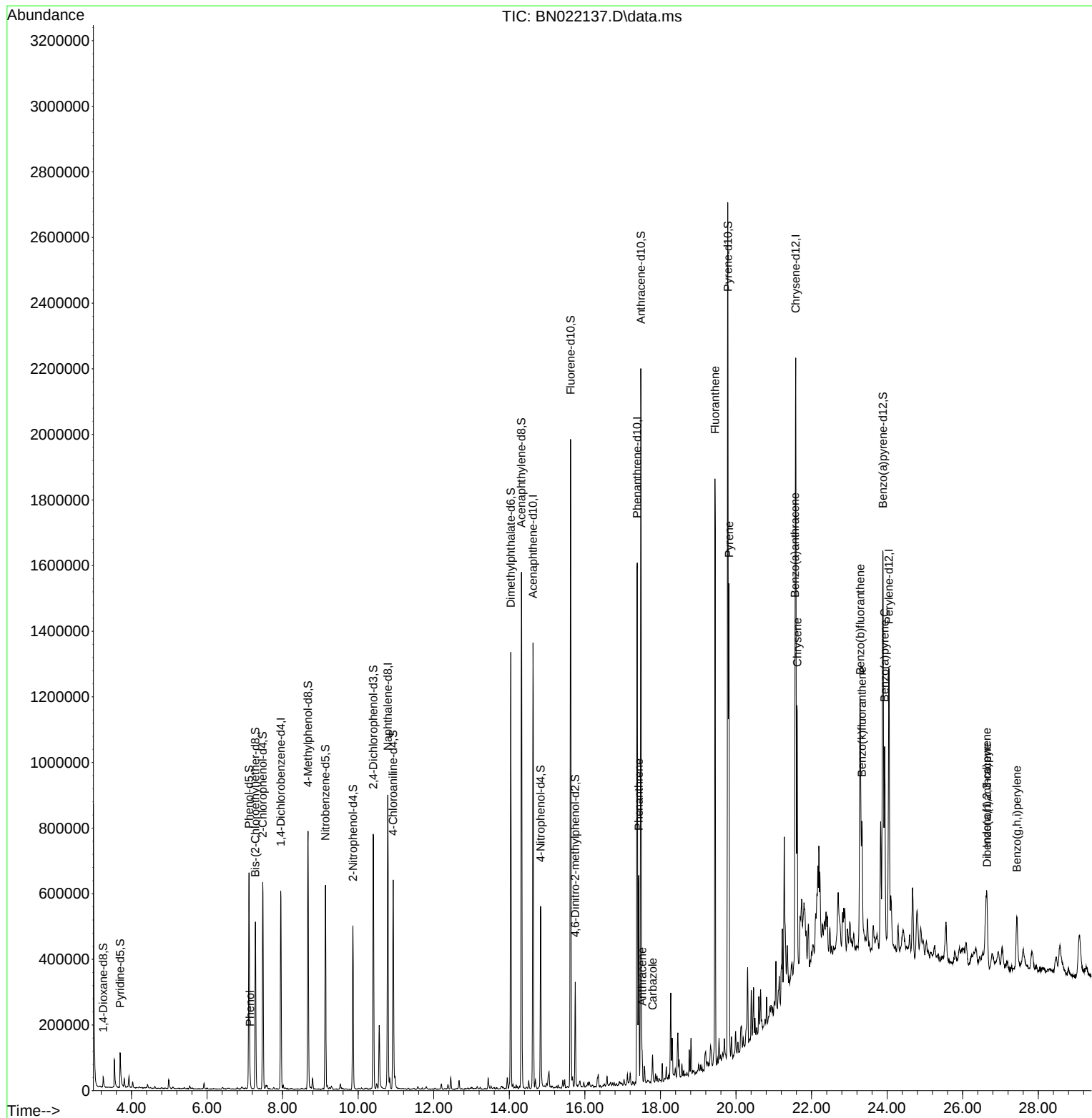
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN101422\  
 Data File : BN022137.D  
 Acq On : 14 Oct 2022 23:44  
 Operator : CG/JU  
 Sample : N5023-16  
 Misc :  
 ALS Vial : 55 Sample Multiplier: 1

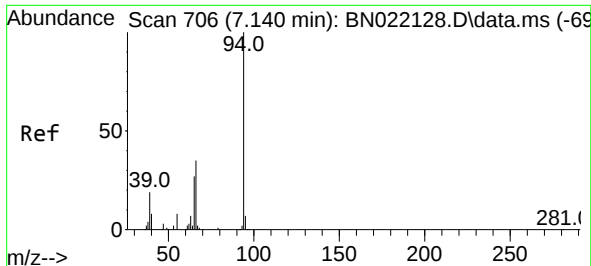
Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0BC6

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/15/2022  
 Supervised By :mohammad ahmed 10/16/2022

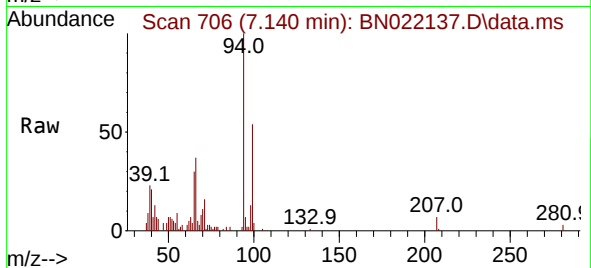
Quant Time: Oct 15 02:00:23 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN101222.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Oct 13 03:08:08 2022  
 Response via : Initial Calibration





#8  
Phenol  
Concen: 1.163 ng/ul  
RT: 7.140 min Scan# 706  
Delta R.T. -0.000 min  
Lab File: BN022137.D  
Acq: 14 Oct 2022 23:44

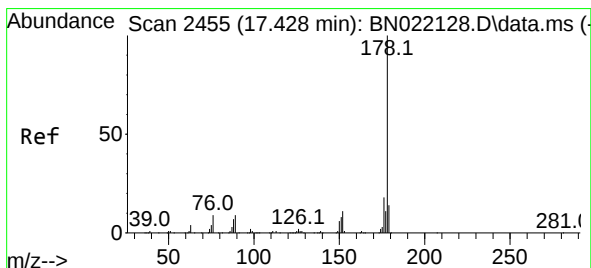
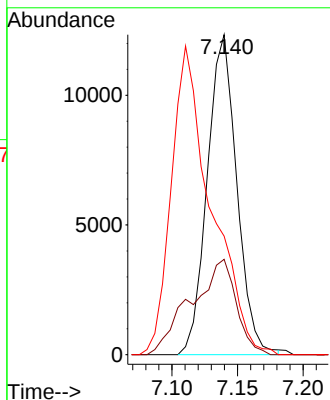
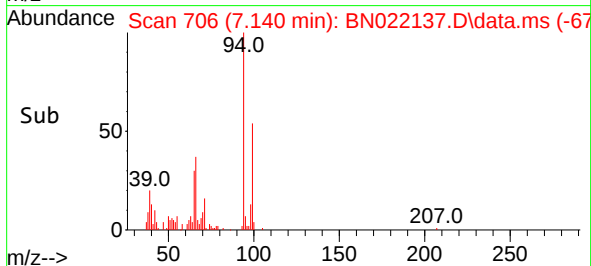
Instrument :  
BNA\_N  
ClientSampleId :  
C0BC6



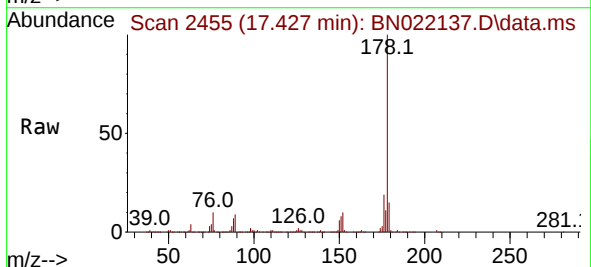
Tgt Ion: 94 Resp: 19345  
Ion Ratio Lower Upper  
94 100  
65 29.8 22.1 33.1  
66 37.1 29.0 43.6

Manual Integrations  
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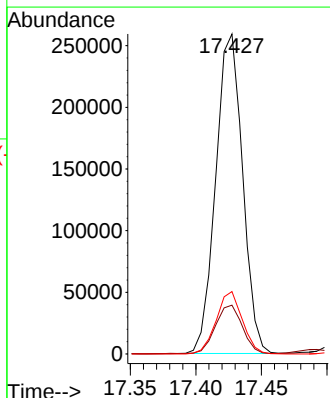
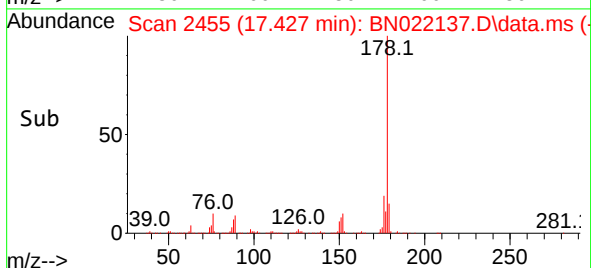
Reviewed By :Yogesh Patel 10/15/2022  
Supervised By :mohammad ahmed 10/16/2022

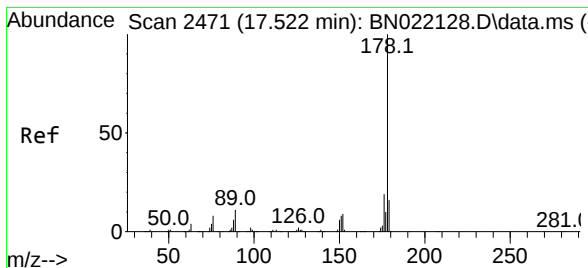


#72  
Phenanthrene  
Concen: 7.479 ng/ul  
RT: 17.427 min Scan# 2455  
Delta R.T. -0.006 min  
Lab File: BN022137.D  
Acq: 14 Oct 2022 23:44



Tgt Ion:178 Resp: 369469  
Ion Ratio Lower Upper  
178 100  
179 15.2 12.3 18.5  
176 19.5 16.5 24.7





#74

Anthracene

Concen: 1.093 ng/ul

RT: 17.516 min Scan# 2471

Delta R.T. -0.006 min

Lab File: BN022137.D

Acq: 14 Oct 2022 23:44

Instrument :

BNA\_N

ClientSampleId :

C0BC6

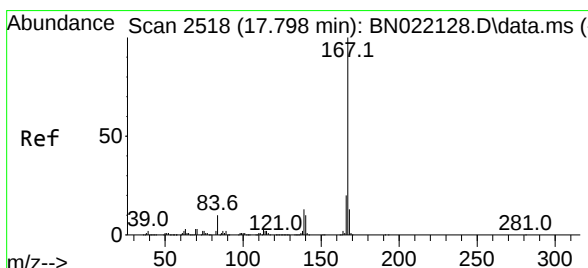
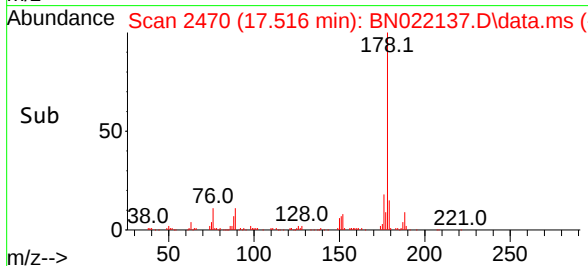
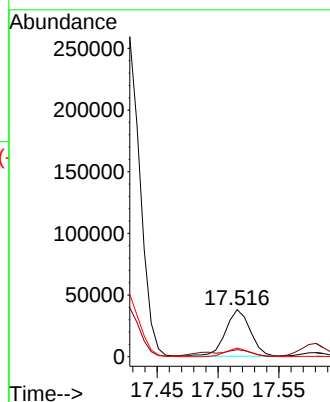
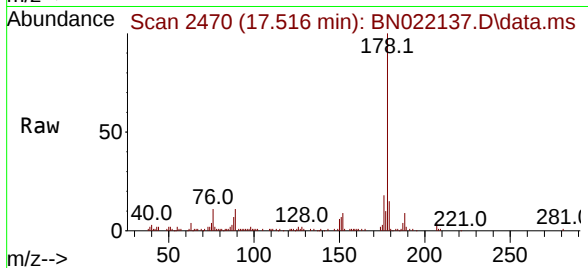
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 5364      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 14.9  | 13.0 19.6 |
| 176         | 18.5  | 15.8 23.6 |

Manual Integrations

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#77

Carbazole

Concen: 1.050 ng/ul

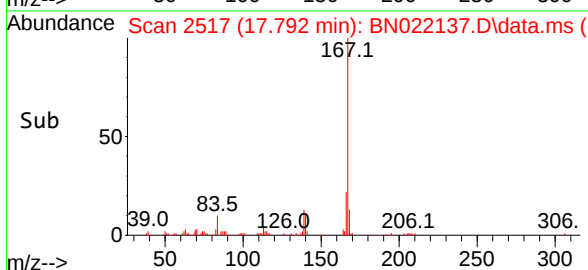
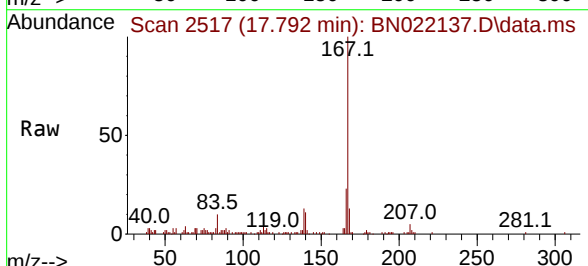
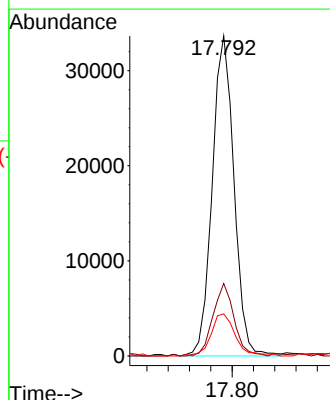
RT: 17.792 min Scan# 2517

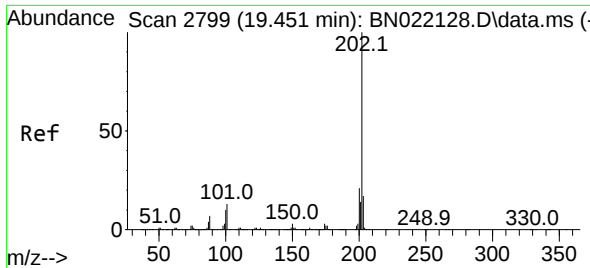
Delta R.T. -0.006 min

Lab File: BN022137.D

Acq: 14 Oct 2022 23:44

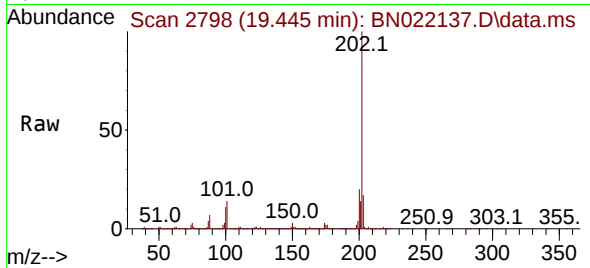
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:167 | Resp: | 47667     |
| Ion Ratio   | Lower | Upper     |
| 167         | 100   |           |
| 166         | 22.7  | 17.3 25.9 |
| 139         | 13.2  | 10.7 16.1 |





#80  
Fluoranthene  
Concen: 21.297 ng/u1  
RT: 19.445 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BN022137.D  
Acq: 14 Oct 2022 23:44

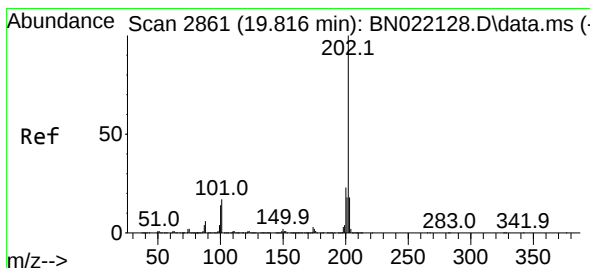
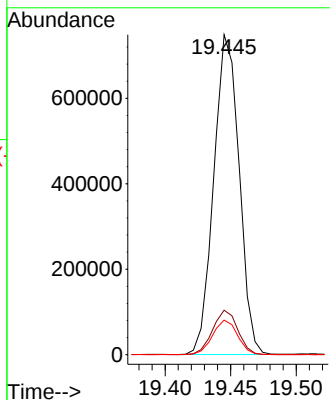
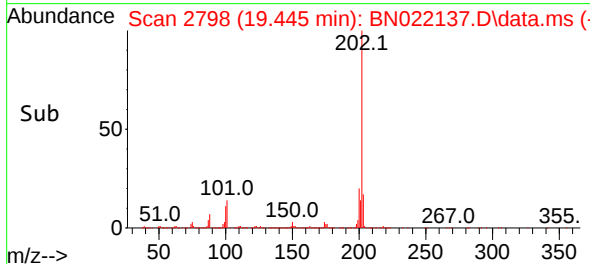
Instrument :  
BNA\_N  
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C0BC6



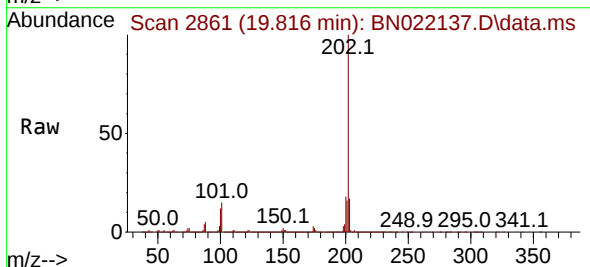
Tgt Ion:202 Resp: 1006399  
Ion Ratio Lower Upper  
202 100  
101 13.9 10.3 15.5  
100 10.8 7.8 11.8

Manual Integrations  
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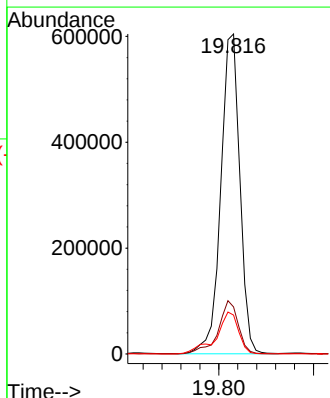
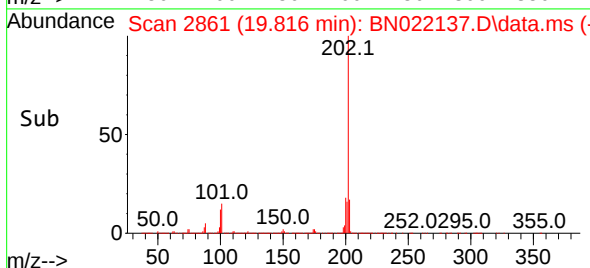
Reviewed By :Yogesh Patel 10/15/2022  
Supervised By :mohammad ahmed 10/16/2022

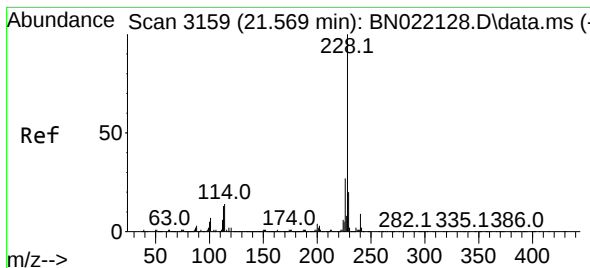


#82  
Pyrene  
Concen: 17.066 ng/u1  
RT: 19.816 min Scan# 2861  
Delta R.T. -0.000 min  
Lab File: BN022137.D  
Acq: 14 Oct 2022 23:44



Tgt Ion:202 Resp: 843699  
Ion Ratio Lower Upper  
202 100  
101 14.7 13.4 20.0  
100 12.2 10.9 16.3





#85

Benzo(a)anthracene

Concen: 8.165 ng/uI

RT: 21.563 min Scan# 3159

Delta R.T. -0.012 min

Lab File: BN022137.D

Acq: 14 Oct 2022 23:44

Instrument :

BNA\_N

ClientSampleId :

C0BC6

Tgt Ion:228 Resp: 39446

Ion Ratio Lower Upper

228 100

229 22.1 13.5 20.3

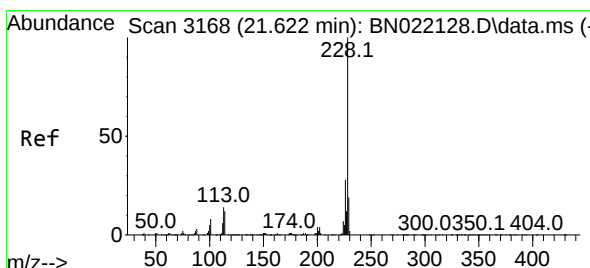
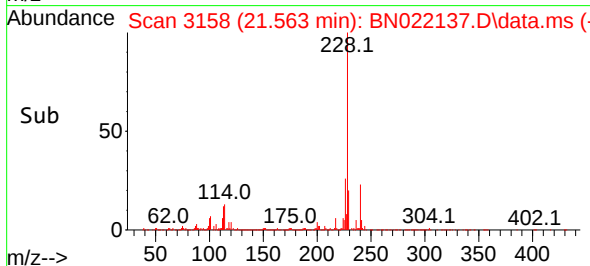
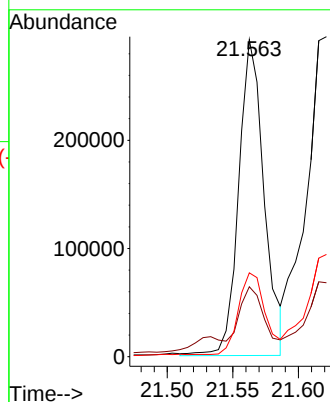
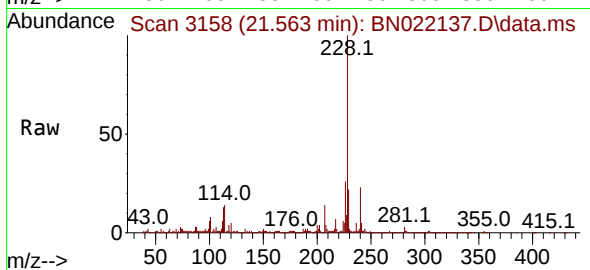
226 26.5 21.0 31.6

Manual Integrations

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Reviewed By :Yogesh Patel 10/15/2022

Supervised By :mohammad ahmed 10/16/2022



#87

Chrysene

Concen: 9.917 ng/uI

RT: 21.621 min Scan# 3168

Delta R.T. -0.006 min

Lab File: BN022137.D

Acq: 14 Oct 2022 23:44

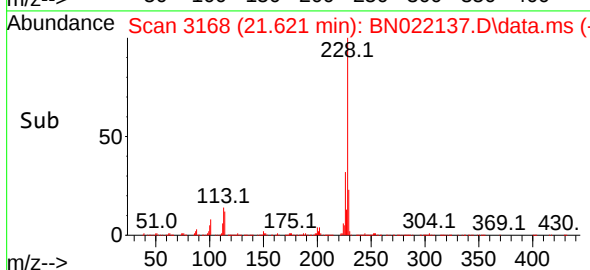
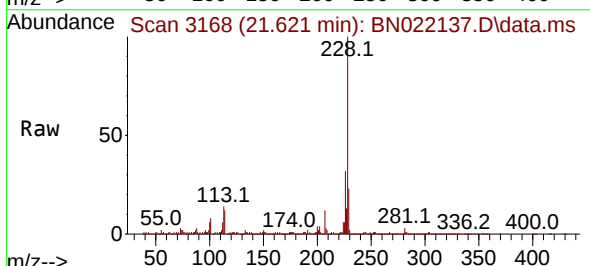
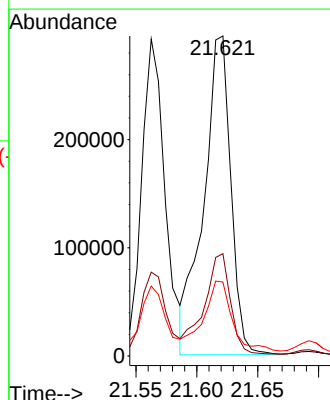
Tgt Ion:228 Resp: 460446

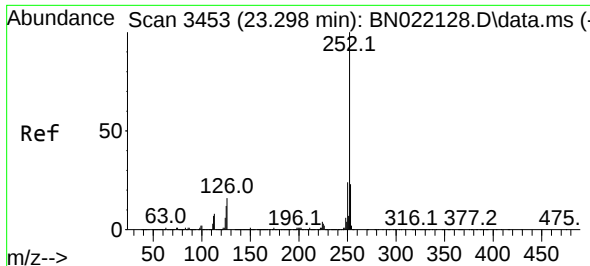
Ion Ratio Lower Upper

228 100

226 32.0 23.8 35.8

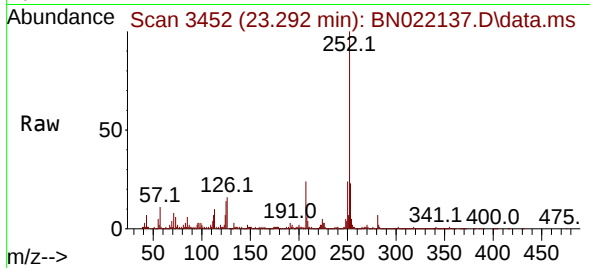
229 23.1 16.5 24.7





#90  
Benzo(b)fluoranthene  
Concen: 13.131 ng/ul  
RT: 23.292 min Scan# 3453  
Delta R.T. -0.006 min  
Lab File: BN022137.D  
Acq: 14 Oct 2022 23:44

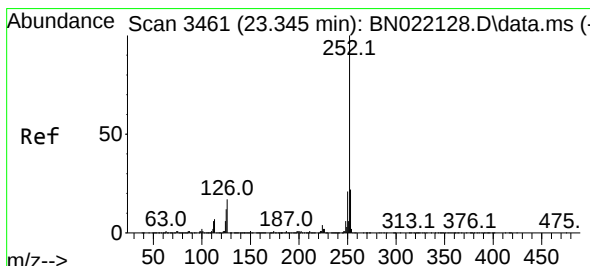
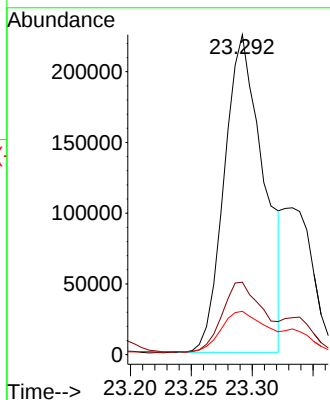
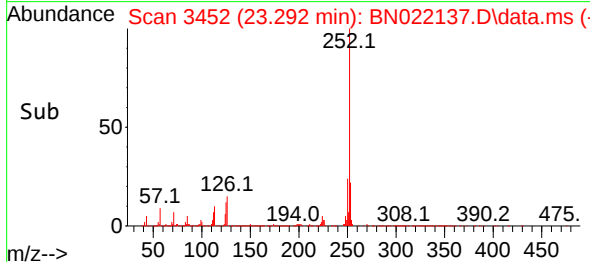
Instrument :  
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C0BC6



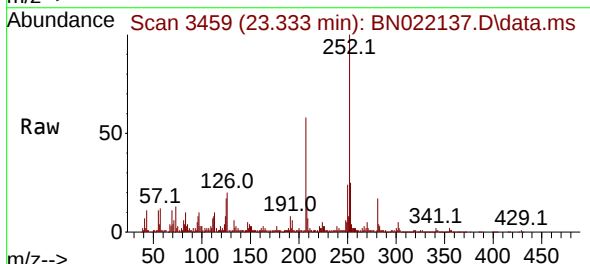
Tgt Ion:252 Resp: 505364  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.6 26.4  
125 13.5 10.7 16.1

Manual Integrations  
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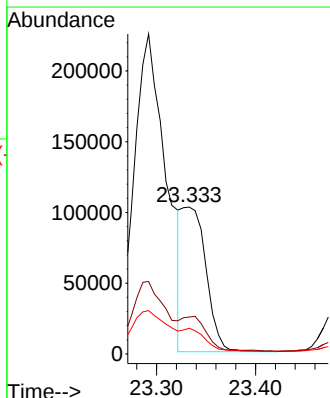
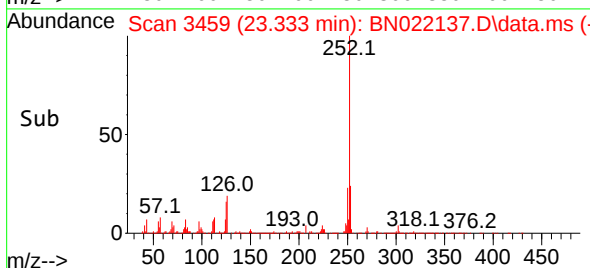
Reviewed By :Yogesh Patel 10/15/2022  
Supervised By :mohammad ahmed 10/16/2022

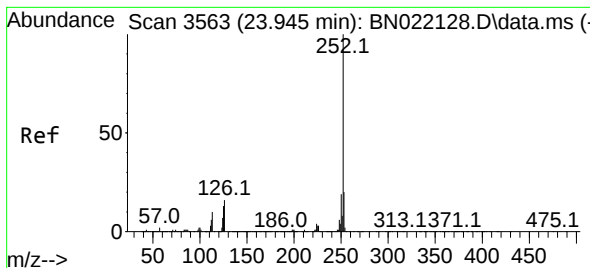


#91  
Benzo(k)fluoranthene  
Concen: 4.575 ng/ul m  
RT: 23.333 min Scan# 3459  
Delta R.T. -0.018 min  
Lab File: BN022137.D  
Acq: 14 Oct 2022 23:44



Tgt Ion:252 Resp: 173968  
Ion Ratio Lower Upper  
252 100  
253 25.2 17.7 26.5  
125 17.5 10.6 15.8#





#93

Benzo(a)pyrene

Concen: 9.941 ng/ul

RT: 23.933 min Scan# 3561

Delta R.T. -0.018 min

Lab File: BN022137.D

Acq: 14 Oct 2022 23:44

Instrument :

BNA\_N

ClientSampleId :

C0BC6

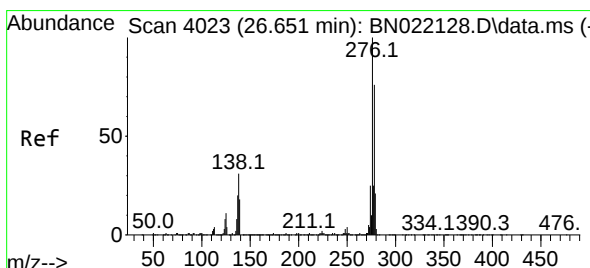
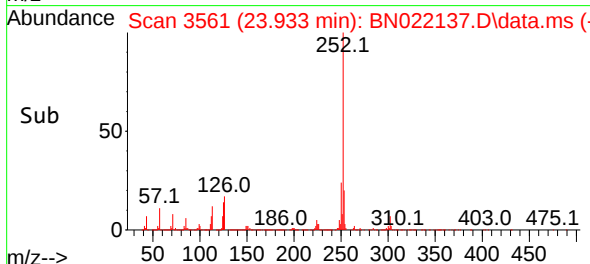
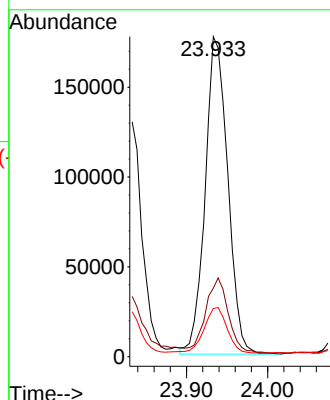
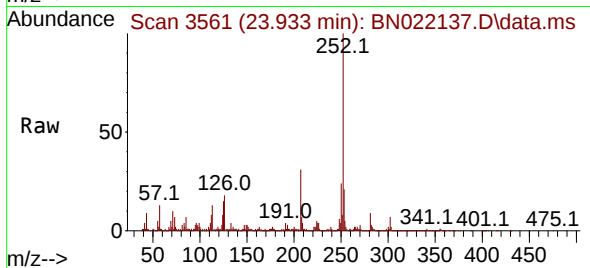
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|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 34192 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 21.4  | 17.2  | 25.8  |
| 125       | 15.1  | 10.8  | 16.2  |

Manual Integrations

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#94

Indeno(1,2,3-cd)pyrene

Concen: 5.163 ng/ul

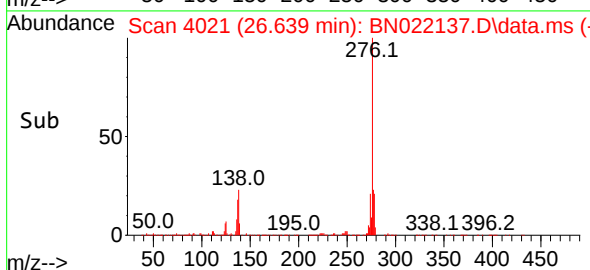
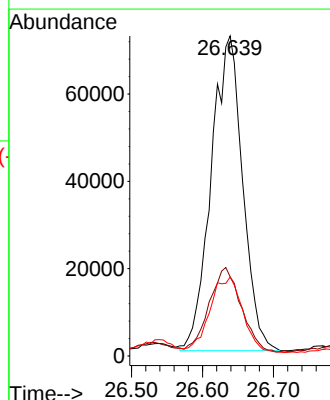
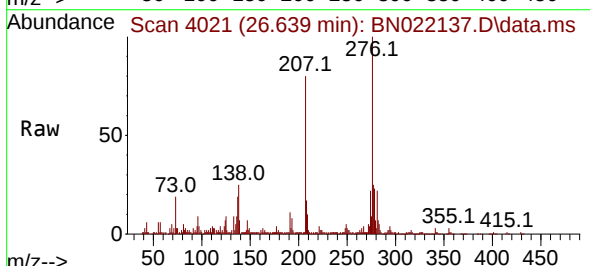
RT: 26.639 min Scan# 4021

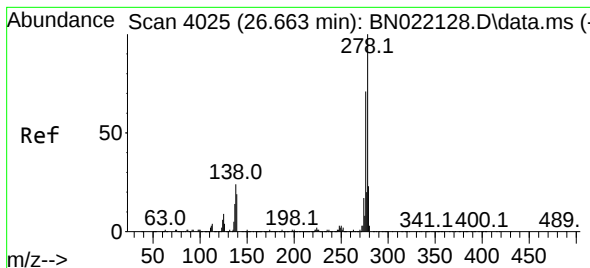
Delta R.T. -0.024 min

Lab File: BN022137.D

Acq: 14 Oct 2022 23:44

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 221983 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 24.8  | 24.6  | 36.8   |
| 277       | 24.6  | 18.4  | 27.6   |





#95

Dibenzo(a,h)anthracene

Concen: 1.747 ng/ul m

RT: 26.651 min Scan# 4023

Delta R.T. -0.024 min

Lab File: BN022137.D

Acq: 14 Oct 2022 23:44

Instrument :

BNA\_N

ClientSampleId :

C0BC6

Tgt Ion:278 Resp: 67202

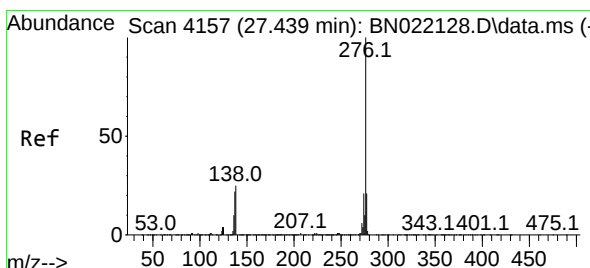
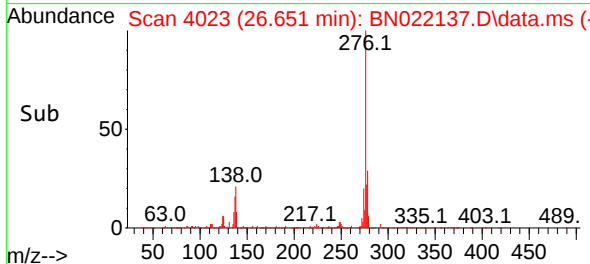
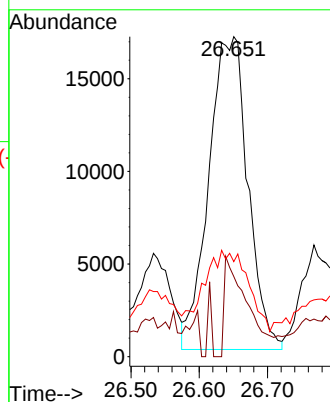
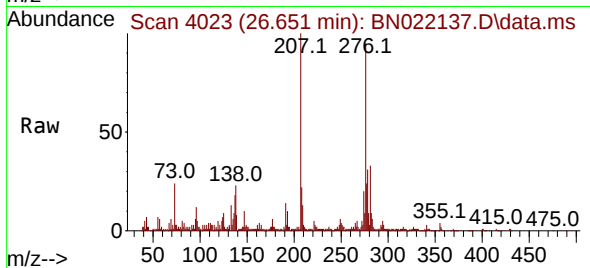
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 25.1  | 15.7  | 23.5  |
| 279 | 29.7  | 16.5  | 24.7  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/15/2022

Supervised By :mohammad ahmed 10/16/2022



#96

Benzo(g,h,i)perylene

Concen: 5.544 ng/ul

RT: 27.433 min Scan# 4156

Delta R.T. -0.024 min

Lab File: BN022137.D

Acq: 14 Oct 2022 23:44

Tgt Ion:276 Resp: 214440

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 26.4  | 21.2  | 31.8  |
| 277 | 24.1  | 17.9  | 26.9  |

