

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM072023\  
 Data File : BM040990.D  
 Acq On : 20 Jul 2023 20:28  
 Operator : MA/JU  
 Sample : 03452-21  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A46Q0

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/20/2023  
 Supervised By :Sohil Jodhani 07/20/2023

Quant Time: Jul 20 21:39:42 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 20 05:08:42 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.866  | 152  | 3303     | 0.400 | ng/ul  | -0.01    |
| 4) Naphthalene-d8           | 10.669 | 136  | 8064     | 0.400 | ng/ul  | #-0.01   |
| 9) Acenaphthene-d10         | 14.518 | 164  | 4267     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.274 | 188  | 6454     | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.463 | 240  | 4793     | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.857 | 264  | 4516     | 0.400 | ng/ul  | -0.01    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.280  | 96   | 9216     | 1.697 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.264 | 152  | 3351     | 0.312 | ng/ul  | -0.02    |
| 18) Fluoranthene-d10        | 19.306 | 212  | 5146     | 0.255 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.724 | 128  | 3072     | 0.139 | ng/ul# | 92       |
| 10) Acenaphthylene          | 14.240 | 152  | 475      | 0.027 | ng/ul# | 41       |
| 11) Acenaphthene            | 14.583 | 153  | 362      | 0.023 | ng/ul# | 92       |
| 15) Phenanthrene            | 17.316 | 178  | 5921     | 0.307 | ng/ul  | 97       |
| 16) Anthracene              | 17.409 | 178  | 309      | 0.021 | ng/ul# | 40       |
| 19) Fluoranthene            | 19.334 | 202  | 13958    | 0.564 | ng/ul  | 98       |
| 20) Pyrene                  | 19.696 | 202  | 9814     | 0.388 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.448 | 228  | 3393     | 0.232 | ng/ul  | 94       |
| 22) Chrysene                | 21.501 | 228  | 6020     | 0.361 | ng/ul  | 96       |
| 24) Benzo(b)fluoranthene    | 23.129 | 252  | 8270     | 0.477 | ng/ul  | 85       |
| 25) Benzo(k)fluoranthene    | 23.173 | 252  | 3343m    | 0.203 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.746 | 252  | 455      | 0.030 | ng/ul# | 1        |
| 27) Indeno(1,2,3-cd)pyrene  | 26.330 | 276  | 2739     | 0.138 | ng/ul# | 92       |
| 28) Dibenzo(a,h)anthracene  | 26.340 | 278  | 838      | 0.056 | ng/ul# | 27       |
| -----                       |        |      |          |       |        |          |

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

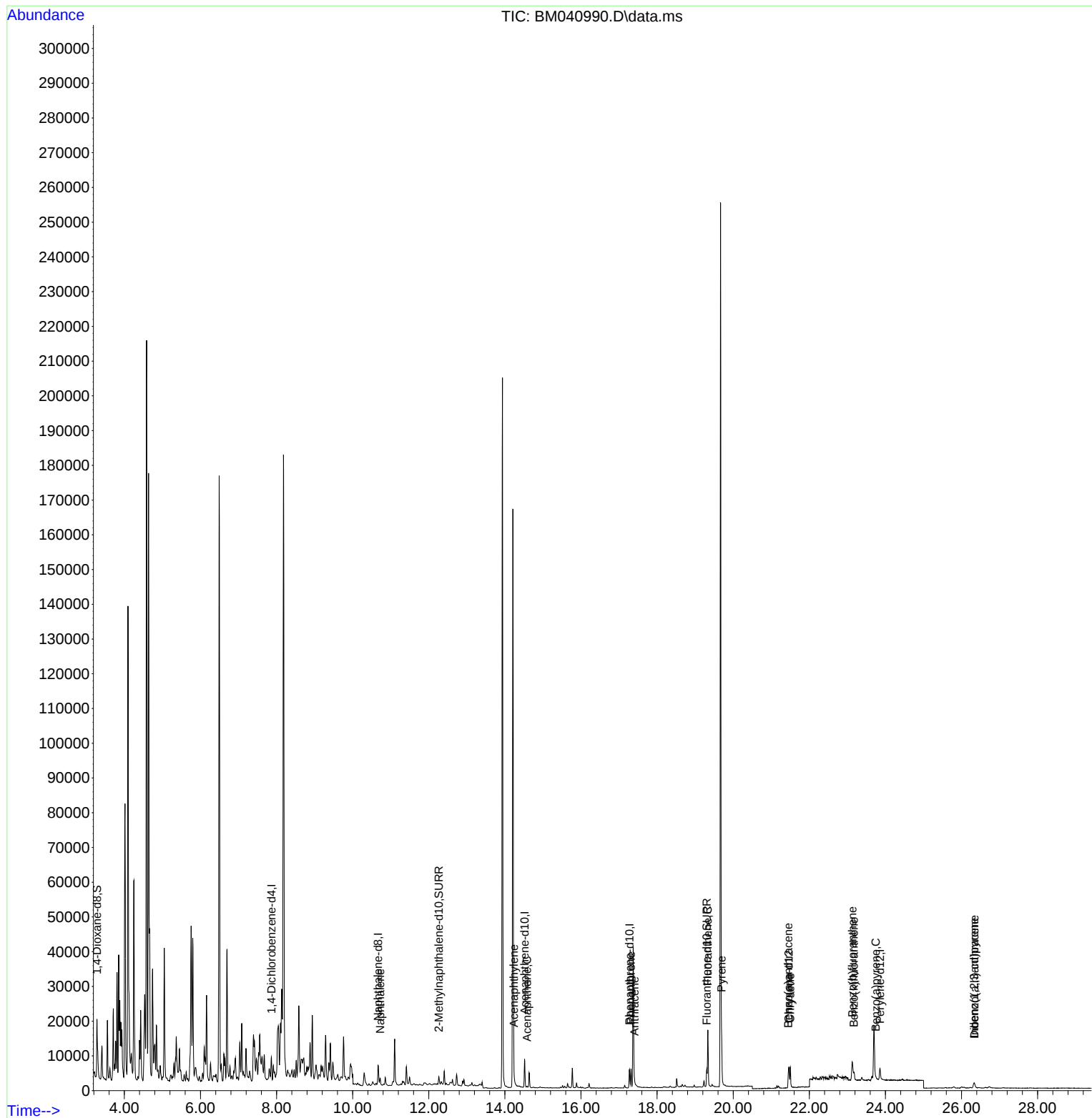
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM072023\  
Data File : BM040990.D  
Acq On : 20 Jul 2023 20:28  
Operator : MA/JU  
Sample : 03452-21  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

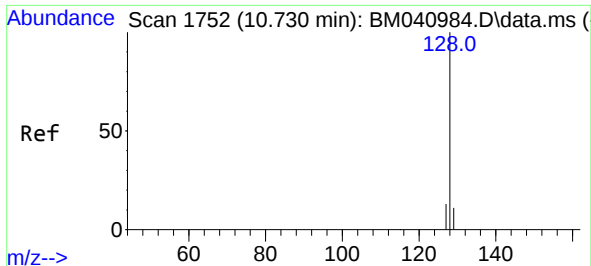
Instrument :  
BNA\_M  
ClientSampleId :  
A46Q0

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/20/2023  
Supervised By :Sohil Jodhani 07/20/2023

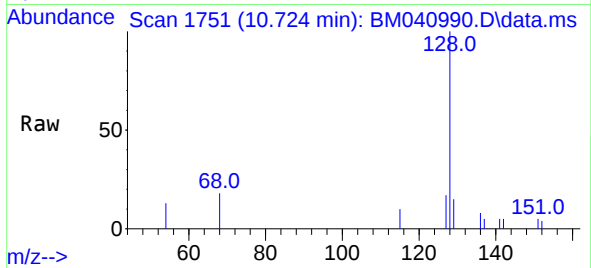
Quant Time: Jul 20 21:39:42 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 20 05:08:42 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.139 ng/ul  
RT: 10.724 min Scan# 1751  
Delta R.T. -0.005 min  
Lab File: BM040990.D  
Acq: 20 Jul 2023 20:28

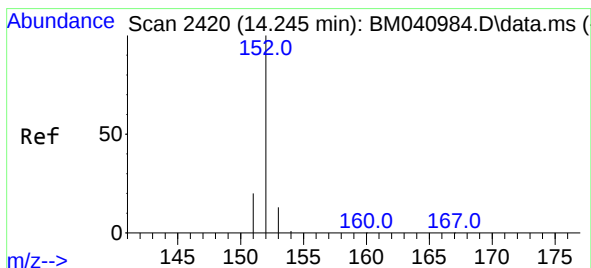
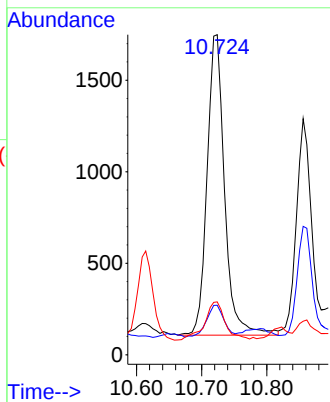
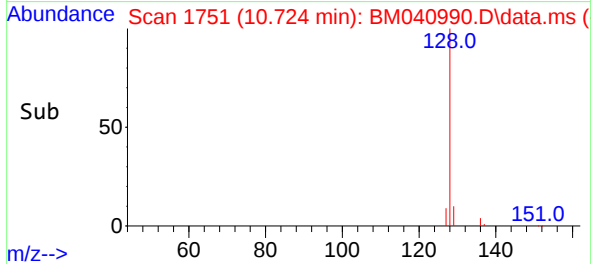
Instrument :  
BNA\_M  
ClientSampleId :  
A46Q0



Tgt Ion:128 Resp: 3072  
Ion Ratio Lower Upper  
128 100  
129 15.5 9.8 14.8#  
127 16.5 11.0 16.4#

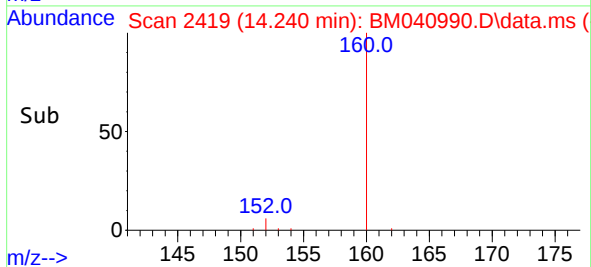
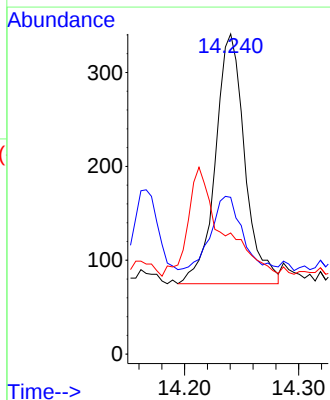
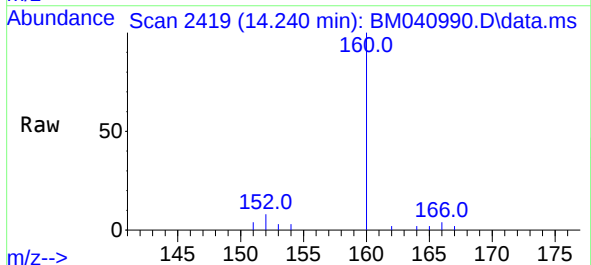
Manual Integrations  
APPROVED

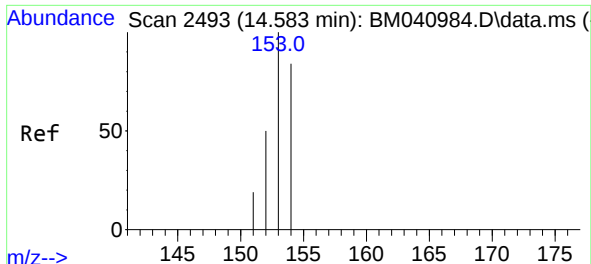
Reviewed By :Yogesh Patel 07/20/2023  
Supervised By :Sohil Jodhani 07/20/2023



#10  
Acenaphthylene  
Concen: 0.027 ng/ul  
RT: 14.240 min Scan# 2419  
Delta R.T. -0.009 min  
Lab File: BM040990.D  
Acq: 20 Jul 2023 20:28

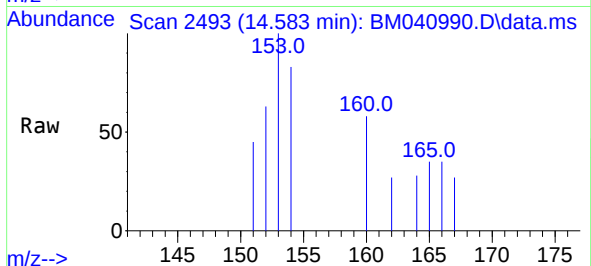
Tgt Ion:152 Resp: 475  
Ion Ratio Lower Upper  
152 100  
151 49.0 16.8 25.2#  
153 37.8 11.6 17.4#





#11  
Acenaphthene  
Concen: 0.023 ng/u1  
RT: 14.583 min Scan# 2493  
Delta R.T. -0.005 min  
Lab File: BM040990.D  
Acq: 20 Jul 2023 20:28

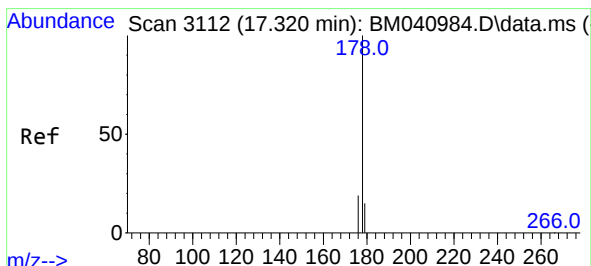
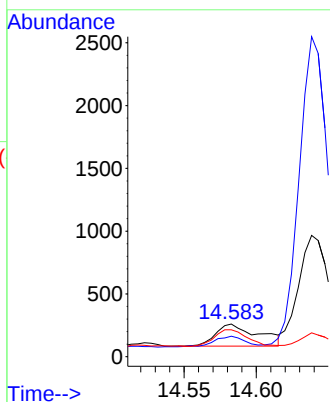
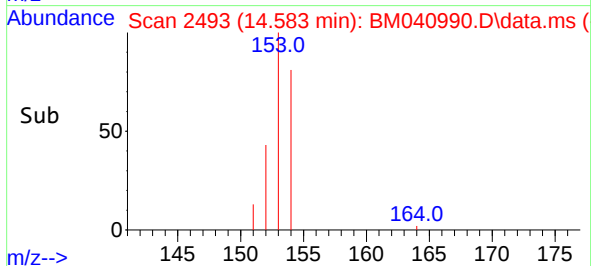
Instrument :  
BNA\_M  
ClientSampleId :  
A46Q0



Tgt Ion:153 Resp: 362  
Ion Ratio Lower Upper  
153 100  
152 62.7 41.0 61.6  
154 82.7 68.2 102.2

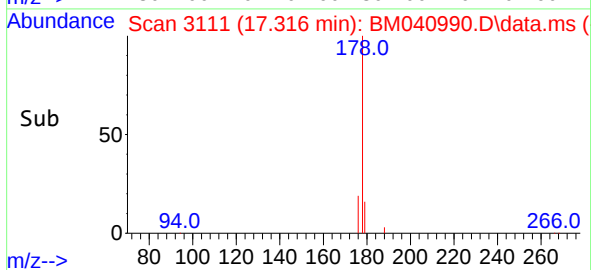
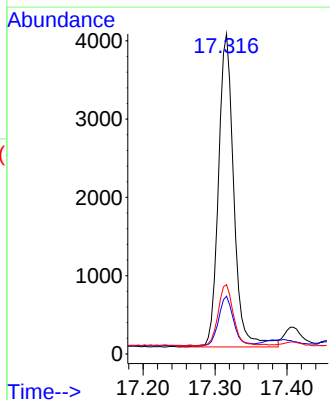
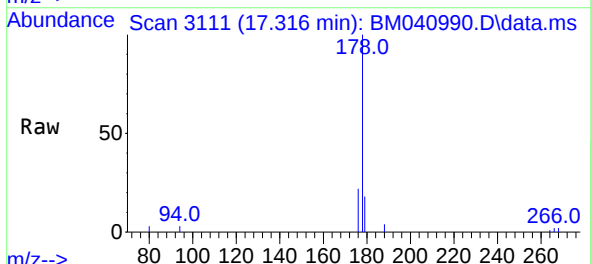
Manual Integrations  
APPROVED

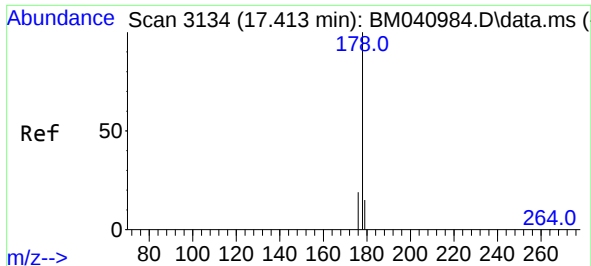
Reviewed By :Yogesh Patel 07/20/2023  
Supervised By :Sohil Jodhani 07/20/2023



#15  
Phenanthrene  
Concen: 0.307 ng/u1  
RT: 17.316 min Scan# 3111  
Delta R.T. -0.008 min  
Lab File: BM040990.D  
Acq: 20 Jul 2023 20:28

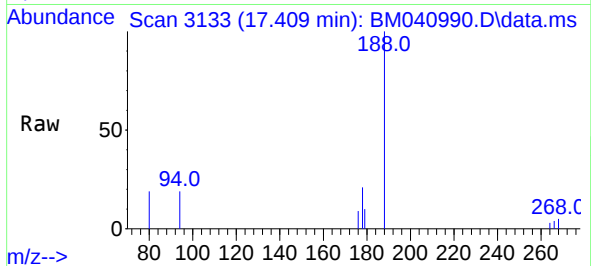
Tgt Ion:178 Resp: 5921  
Ion Ratio Lower Upper  
178 100  
179 18.0 13.0 19.6  
176 21.6 16.2 24.4





#16  
 Anthracene  
 Concen: 0.021 ng/ul  
 RT: 17.409 min Scan# 3134  
 Delta R.T. -0.013 min  
 Lab File: BM040990.D  
 Acq: 20 Jul 2023 20:28

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A46Q0

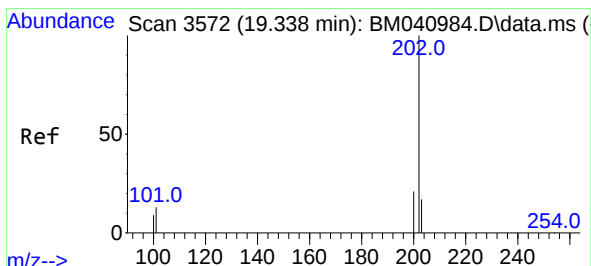
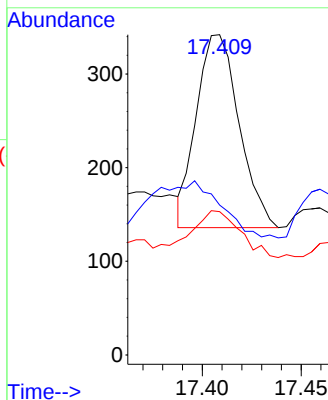
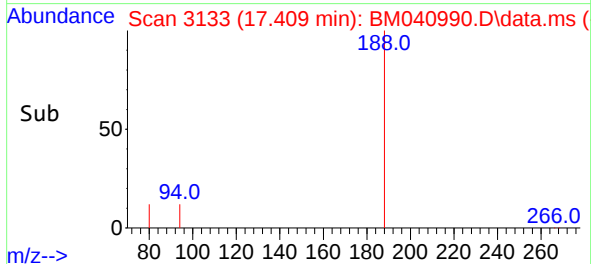


Tgt Ion:178 Resp: 309

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 46.8  | 13.7  | 20.5  |
| 176 | 44.7  | 16.4  | 24.6  |

Manual Integrations  
 APPROVED

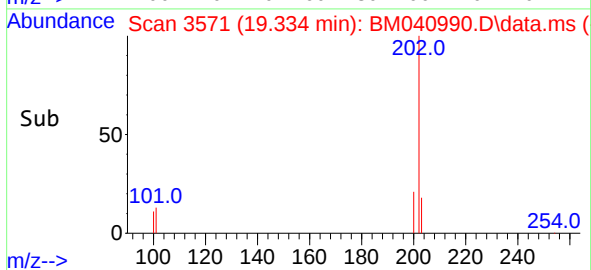
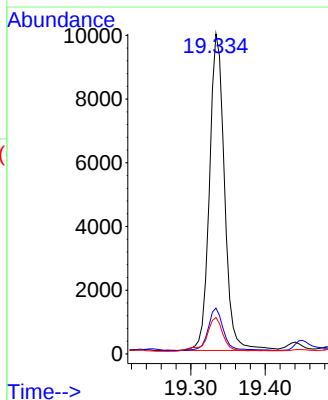
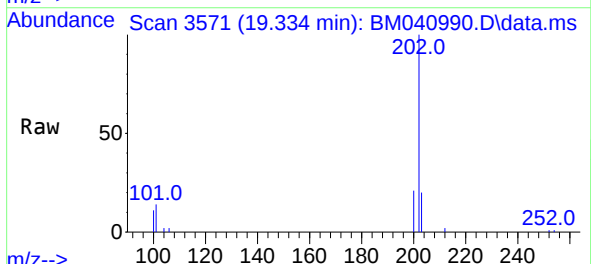
Reviewed By :Yogesh Patel 07/20/2023  
 Supervised By :Sohil Jodhani 07/20/2023

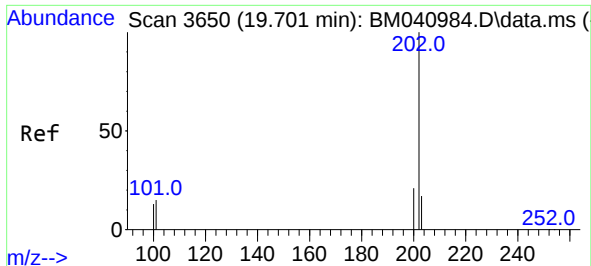


#19  
 Fluoranthene  
 Concen: 0.564 ng/ul  
 RT: 19.334 min Scan# 3571  
 Delta R.T. -0.009 min  
 Lab File: BM040990.D  
 Acq: 20 Jul 2023 20:28

Tgt Ion:202 Resp: 13958

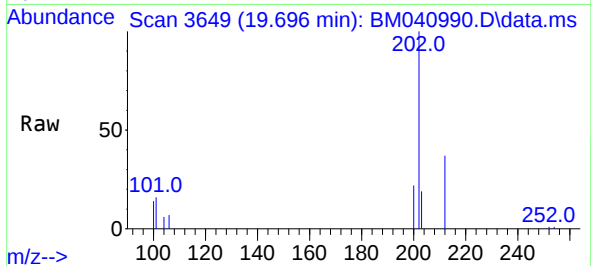
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 14.3  | 11.0  | 16.4  |
| 100 | 11.4  | 8.3   | 12.5  |





#20  
Pyrene  
Concen: 0.388 ng/ul  
RT: 19.696 min Scan# 3649  
Delta R.T. -0.009 min  
Lab File: BM040990.D  
Acq: 20 Jul 2023 20:28

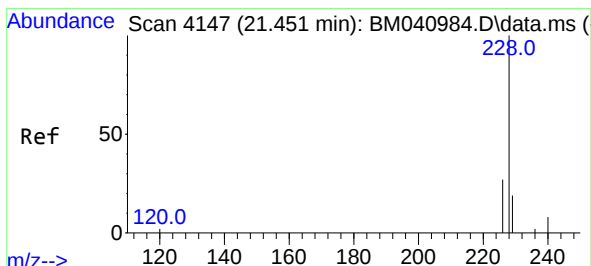
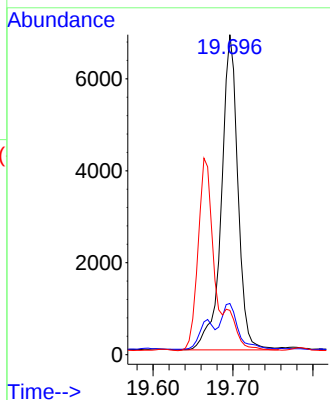
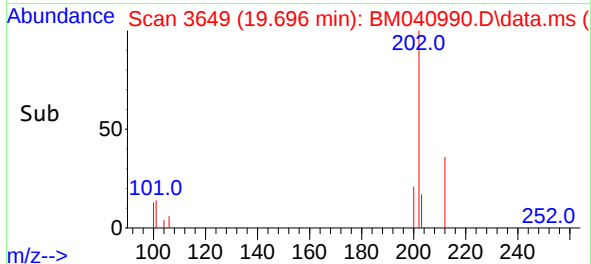
Instrument :  
BNA\_M  
ClientSampleId :  
A46Q0



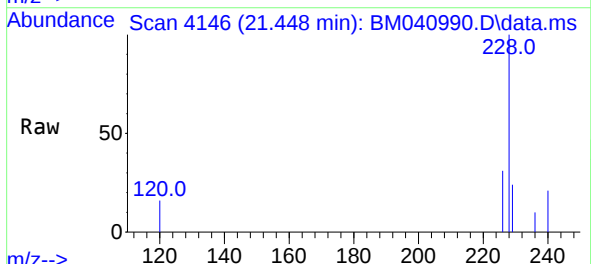
Tgt Ion:202 Resp: 9814  
Ion Ratio Lower Upper  
202 100  
101 16.0 12.5 18.7  
100 13.9 10.0 15.0

Manual Integrations  
APPROVED

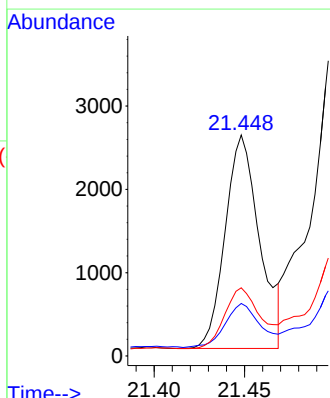
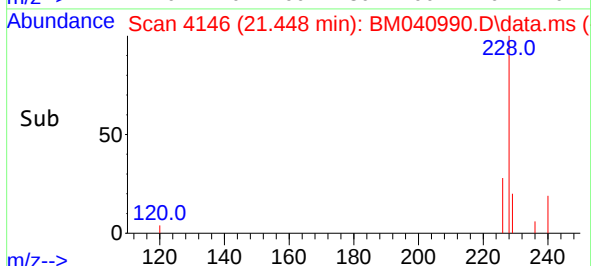
Reviewed By :Yogesh Patel 07/20/2023  
Supervised By :Sohil Jodhani 07/20/2023

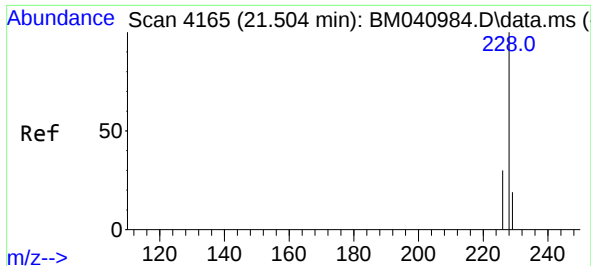


#21  
Benzo(a)anthracene  
Concen: 0.232 ng/ul  
RT: 21.448 min Scan# 4146  
Delta R.T. -0.009 min  
Lab File: BM040990.D  
Acq: 20 Jul 2023 20:28



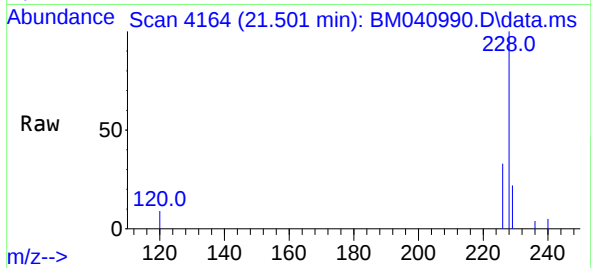
Tgt Ion:228 Resp: 3393  
Ion Ratio Lower Upper  
228 100  
229 23.8 16.2 24.4  
226 30.9 22.3 33.5





#22  
Chrysene  
Concen: 0.361 ng/ul  
RT: 21.501 min Scan# 4164  
Delta R.T. -0.006 min  
Lab File: BM040990.D  
Acq: 20 Jul 2023 20:28

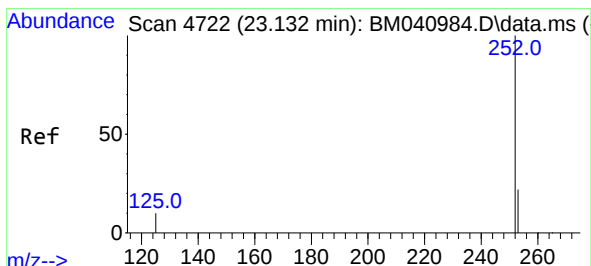
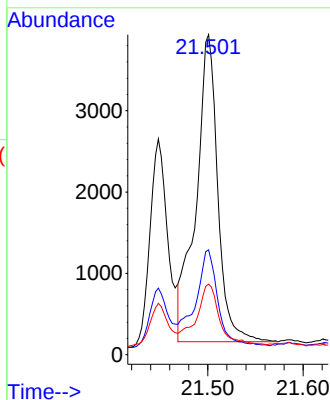
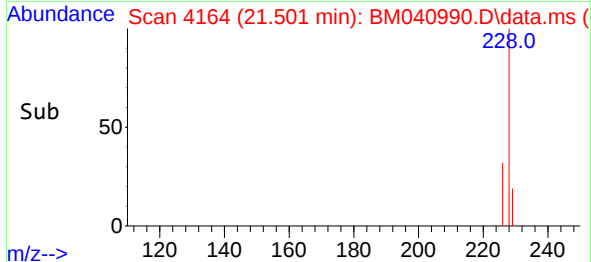
Instrument :  
BNA\_M  
ClientSampleId :  
A46Q0



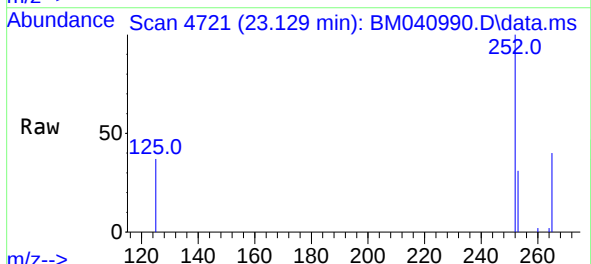
Tgt Ion:228 Resp: 6020  
Ion Ratio Lower Upper  
228 100  
226 32.8 24.6 37.0  
229 22.0 16.1 24.1

Manual Integrations  
APPROVED

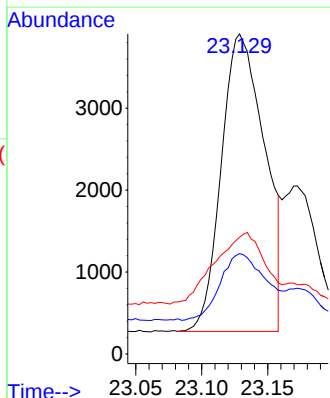
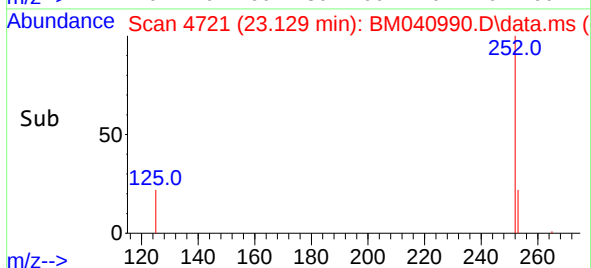
Reviewed By :Yogesh Patel 07/20/2023  
Supervised By :Sohil Jodhani 07/20/2023

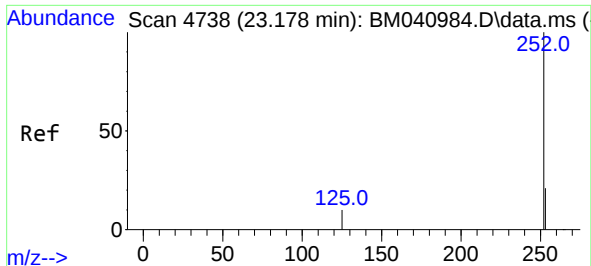


#24  
Benzo(b)fluoranthene  
Concen: 0.477 ng/ul  
RT: 23.129 min Scan# 4721  
Delta R.T. -0.006 min  
Lab File: BM040990.D  
Acq: 20 Jul 2023 20:28



Tgt Ion:252 Resp: 8270  
Ion Ratio Lower Upper  
252 100  
253 31.3 0.0 57.4  
125 36.5 0.0 45.2





#25

Benzo(k)fluoranthene

Concen: 0.203 ng/ul m

RT: 23.173 min Scan# 4

Delta R.T. -0.015 min

Lab File: BM040990.D

Acq: 20 Jul 2023 20:28

Instrument :

BNA\_M

ClientSampleId :

A46Q0

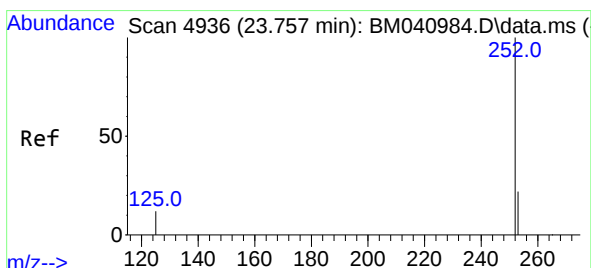
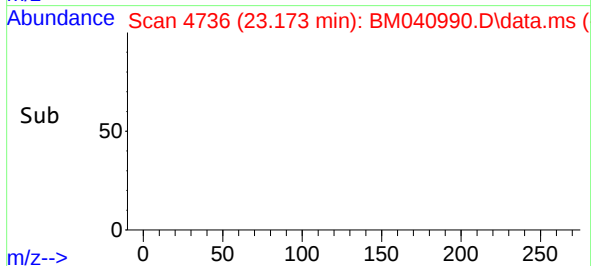
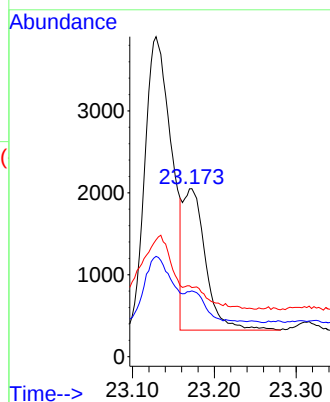
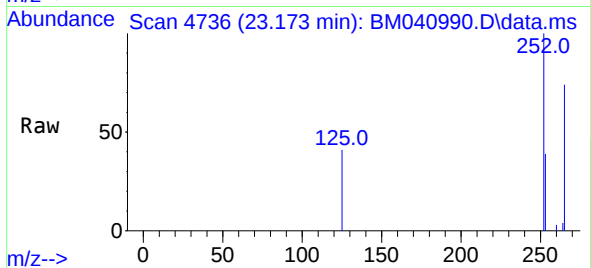
Tgt Ion:252 Resp: 334

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 39.1  | 23.3  | 34.9  |
| 125 | 41.1  | 18.2  | 27.2  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/20/2023  
Supervised By :Sohil Jodhani 07/20/2023



#26

Benzo(a)pyrene

Concen: 0.030 ng/ul

RT: 23.746 min Scan# 4932

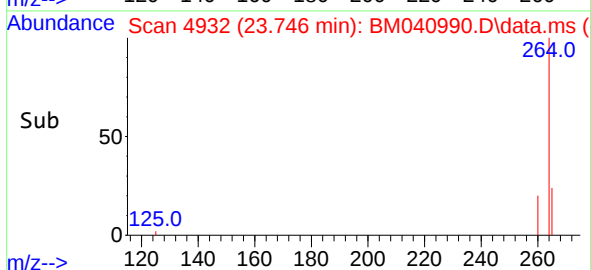
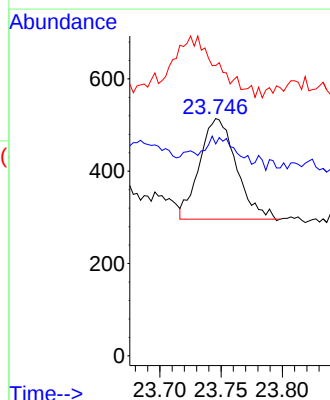
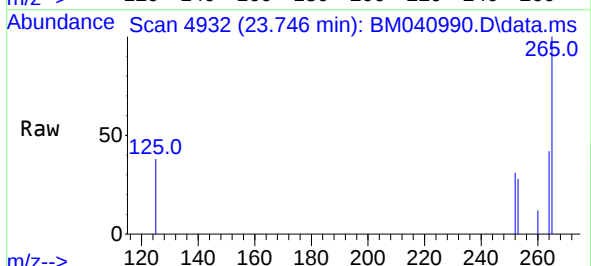
Delta R.T. -0.018 min

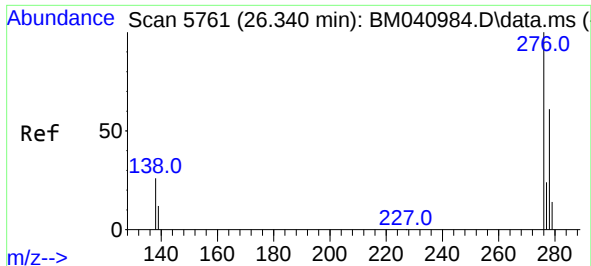
Lab File: BM040990.D

Acq: 20 Jul 2023 20:28

Tgt Ion:252 Resp: 455

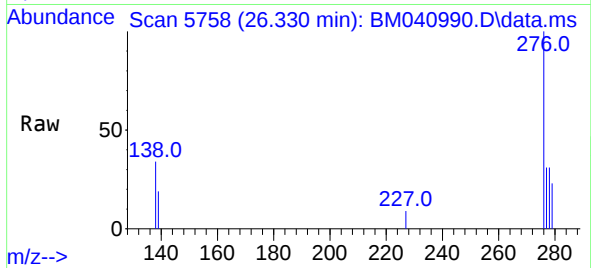
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 89.3  | 28.2  | 42.2  |
| 125 | 122.4 | 25.2  | 37.8  |





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.138 ng/ul  
RT: 26.330 min Scan# 5758  
Delta R.T. -0.020 min  
Lab File: BM040990.D  
Acq: 20 Jul 2023 20:28

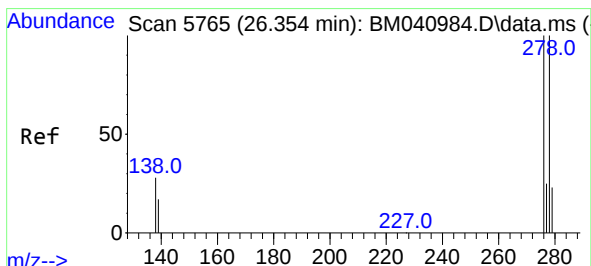
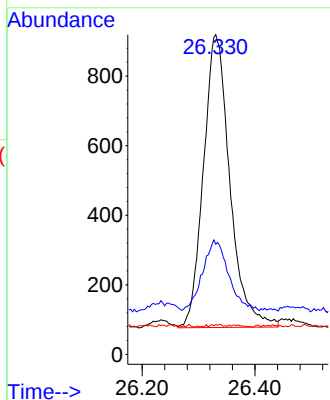
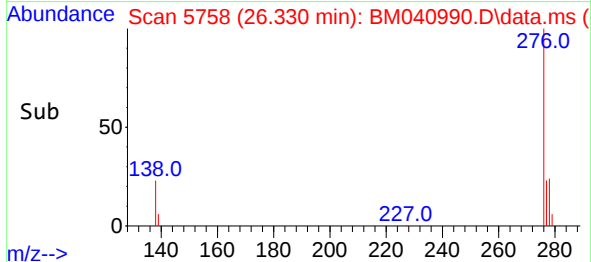
Instrument :  
BNA\_M  
ClientSampleId :  
A46Q0



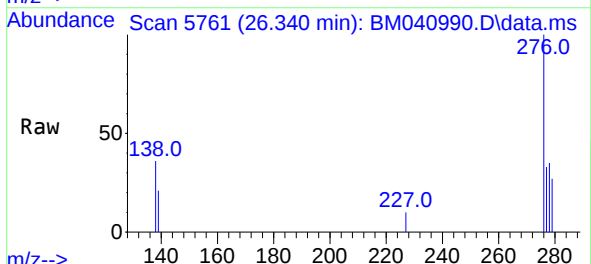
Tgt Ion:276 Resp: 2739  
Ion Ratio Lower Upper  
276 100  
138 23.7 22.3 33.5  
227 0.1 0.0 0.0

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/20/2023  
Supervised By :Sohil Jodhani 07/20/2023



#28  
Dibenzo(a,h)anthracene  
Concen: 0.056 ng/ul  
RT: 26.340 min Scan# 5761  
Delta R.T. -0.027 min  
Lab File: BM040990.D  
Acq: 20 Jul 2023 20:28



Tgt Ion:278 Resp: 838  
Ion Ratio Lower Upper  
278 100  
139 59.5 19.2 28.8#  
279 75.9 27.0 40.6#

