

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071824\  
 Data File : BM046717.D  
 Acq On : 19 Jul 2024 00:40  
 Operator : MA/JU  
 Sample : P3246-11  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 WC-CTW2-BL-03

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/19/2024  
 Supervised By :mohammad ahmed 07/19/2024

Quant Time: Jul 19 01:42:00 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM071724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 18 06:01:46 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.481  | 152  | 111650   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.246 | 136  | 402074   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.134 | 164  | 252374   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 16.880 | 188  | 459024   | 20.000  | ng    | -0.01    |
| 76) Chrysene-d12            | 21.110 | 240  | 422687   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12            | 23.874 | 264  | 540333   | 20.000  | ng    | -0.01    |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.128  | 112  | 597251   | 108.653 | ng    | 0.00     |
| 7) Phenol-d6                | 6.687  | 99   | 749971   | 107.146 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.628  | 82   | 541596   | 69.936  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.628 | 330  | 332411   | 84.917  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 12.745 | 172  | 1270548  | 71.112  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.539 | 244  | 1450112  | 62.041  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 16.928 | 178  | 213854   | 9.381   | ng    | 98       |
| 72) Anthracene              | 17.016 | 178  | 46332    | 2.054   | ng    | 96       |
| 75) Fluoranthene            | 18.951 | 202  | 413568   | 14.119  | ng    | 100      |
| 78) Pyrene                  | 19.316 | 202  | 368232   | 12.237  | ng    | 100      |
| 81) Benzo(a)anthracene      | 21.092 | 228  | 231811   | 8.288   | ng    | 97       |
| 83) Chrysene                | 21.151 | 228  | 225928m  | 8.663   | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 26.933 | 276  | 229918m  | 6.568   | ng    |          |
| 88) Benzo(b)fluoranthene    | 23.009 | 252  | 348163   | 10.465  | ng    | 99       |
| 89) Benzo(k)fluoranthene    | 23.062 | 252  | 139580m  | 4.445   | ng    |          |
| 90) Benzo(a)pyrene          | 23.745 | 252  | 266051   | 9.244   | ng    | 95       |
| 92) Benzo(g,h,i)perylene    | 27.897 | 276  | 226220m  | 7.545   | ng    |          |
| -----                       |        |      |          |         |       |          |

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

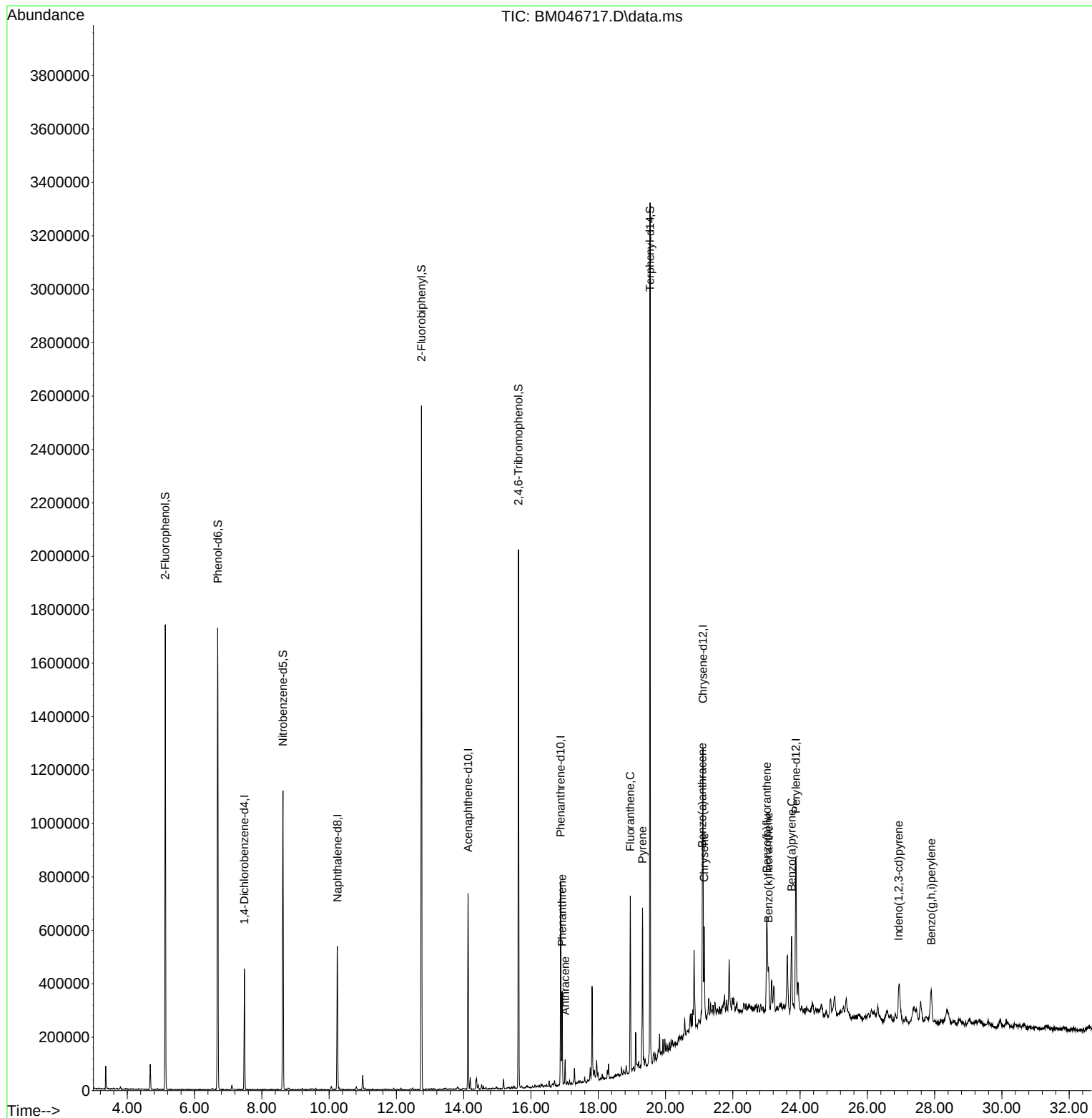
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071824\  
Data File : BM046717.D  
Acq On : 19 Jul 2024 00:40  
Operator : MA/JU  
Sample : P3246-11  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

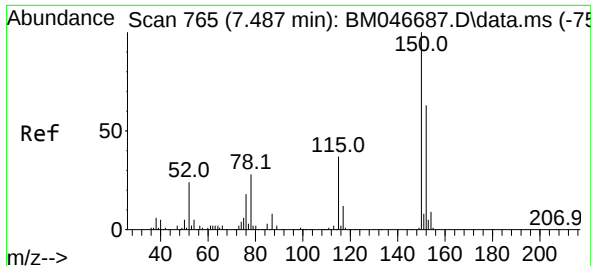
Instrument :  
BNA\_M  
ClientSampleId :  
WC-CTW2-BL-03

Quant Time: Jul 19 01:42:00 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM071724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 18 06:01:46 2024  
Response via : Initial Calibration

Manual Integrations  
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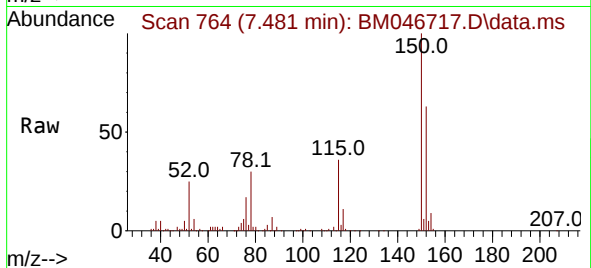
Reviewed By :Yogesh Patel 07/19/2024  
Supervised By :mohammad ahmed 07/19/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.481 min Scan# 765  
Delta R.T. -0.006 min  
Lab File: BM046717.D  
Acq: 19 Jul 2024 00:40

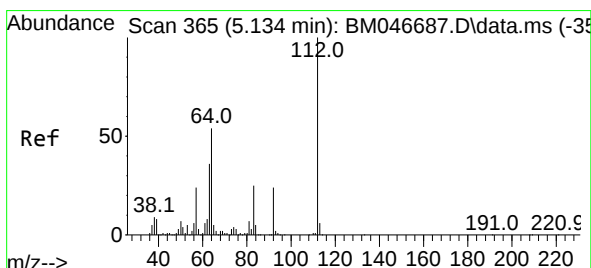
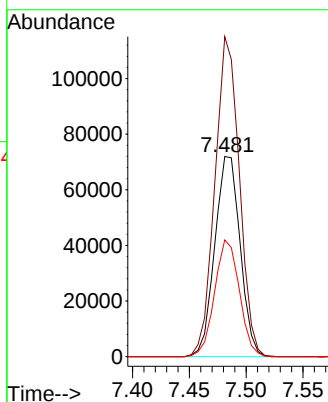
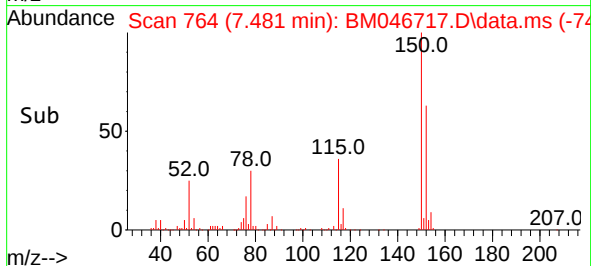
Instrument :  
BNA\_M  
ClientSampleId :  
WC-CTW2-BL-03



Tgt Ion:152 Resp: 111650  
Ion Ratio Lower Upper  
152 100  
150 159.9 127.3 190.9  
115 58.3 46.5 69.7

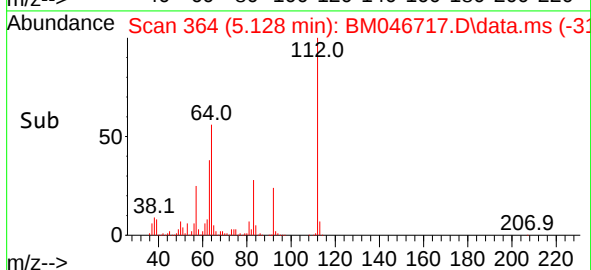
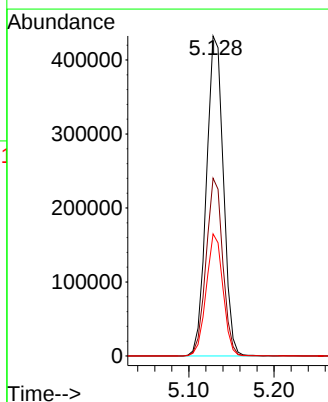
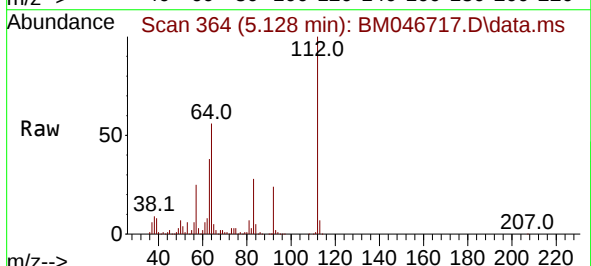
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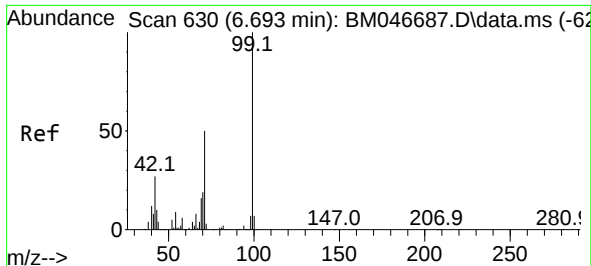
Reviewed By :Yogesh Patel 07/19/2024  
Supervised By :mohammad ahmed 07/19/2024



#5  
2-Fluorophenol  
Concen: 108.653 ng  
RT: 5.128 min Scan# 364  
Delta R.T. -0.006 min  
Lab File: BM046717.D  
Acq: 19 Jul 2024 00:40

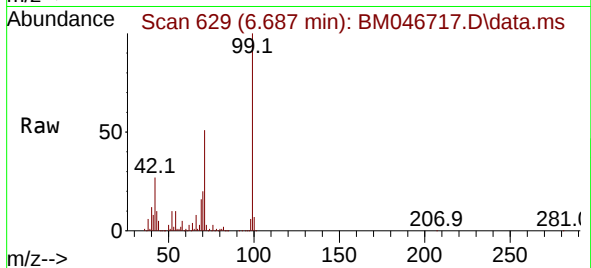
Tgt Ion:112 Resp: 597251  
Ion Ratio Lower Upper  
112 100  
64 55.6 43.5 65.3  
63 38.2 28.6 42.8





#7  
Phenol-d6  
Concen: 107.146 ng  
RT: 6.687 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BM046717.D  
Acq: 19 Jul 2024 00:40

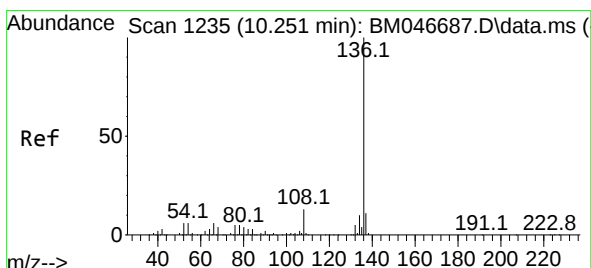
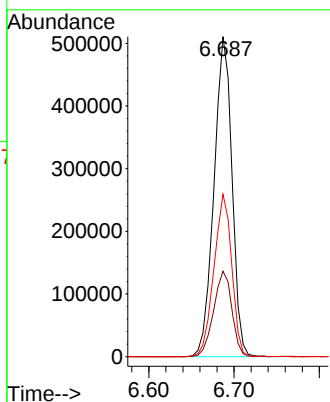
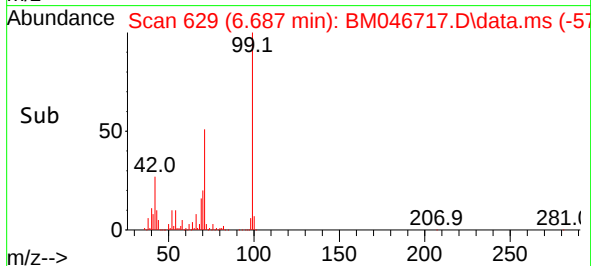
Instrument :  
BNA\_M  
ClientSampleId :  
WC-CTW2-BL-03



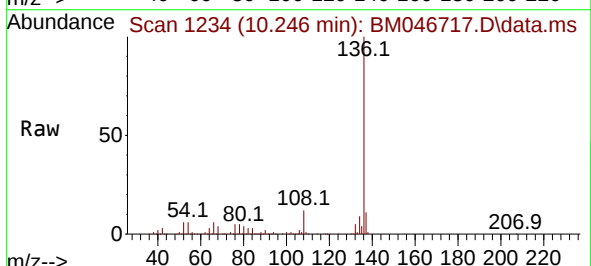
Tgt Ion: 99 Resp: 74997  
Ion Ratio Lower Upper  
99 100  
42 26.7 21.4 32.0  
71 50.7 39.9 59.9

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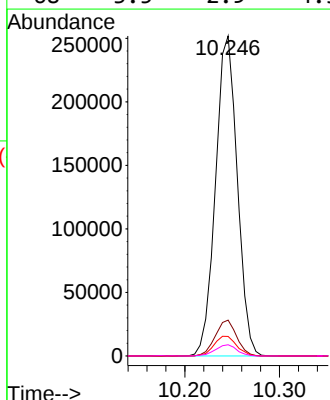
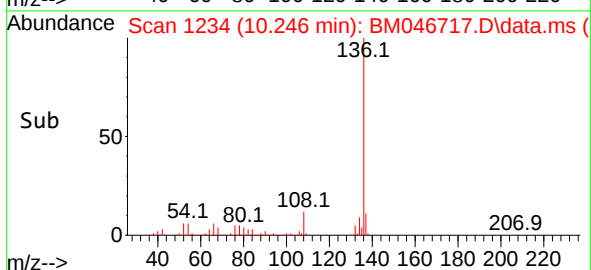
Reviewed By :Yogesh Patel 07/19/2024  
Supervised By :mohammad ahmed 07/19/2024

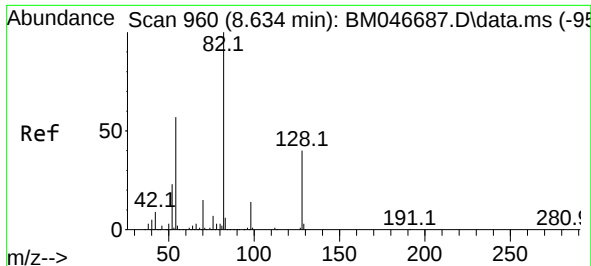


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.246 min Scan# 1234  
Delta R.T. -0.006 min  
Lab File: BM046717.D  
Acq: 19 Jul 2024 00:40



Tgt Ion:136 Resp: 402074  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.7 13.1  
54 6.1 5.1 7.7  
68 3.5 2.9 4.3





#23  
Nitrobenzene-d5  
Concen: 69.936 ng  
RT: 8.628 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: BM046717.D  
Acq: 19 Jul 2024 00:40

Instrument :

BNA\_M

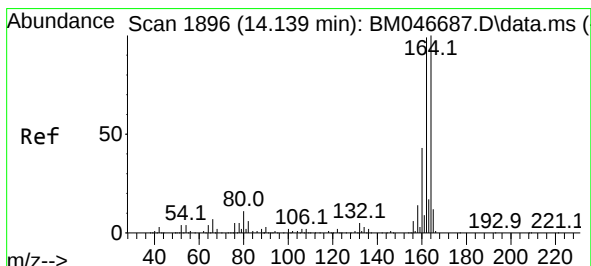
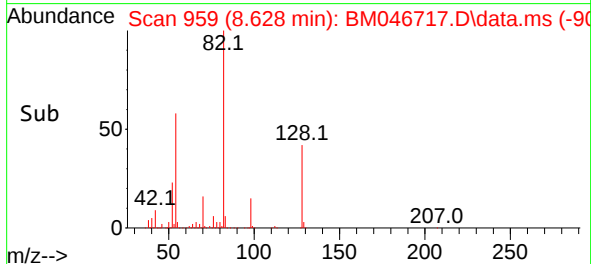
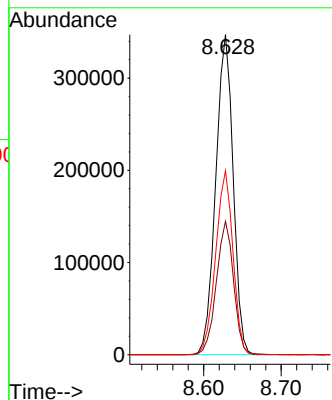
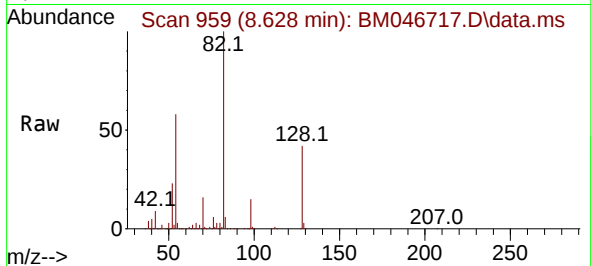
ClientSampleId :

WC-CTW2-BL-03

Tgt Ion: 82 Resp: 541590  
Ion Ratio Lower Upper  
82 100  
128 41.7 32.0 48.0  
54 57.5 45.2 67.8

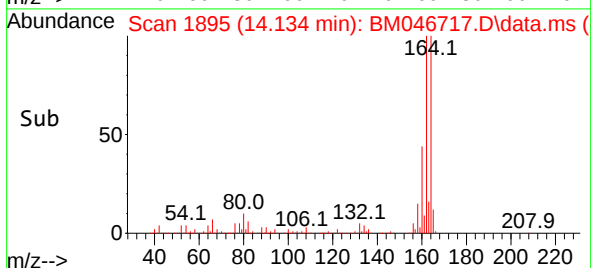
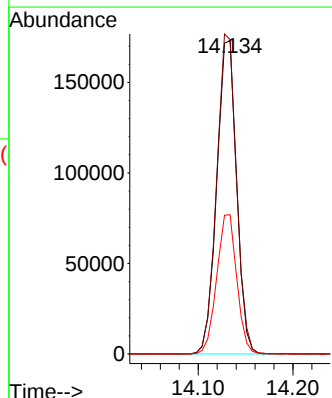
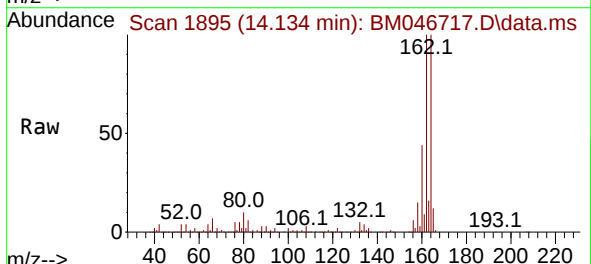
Manual Integrations  
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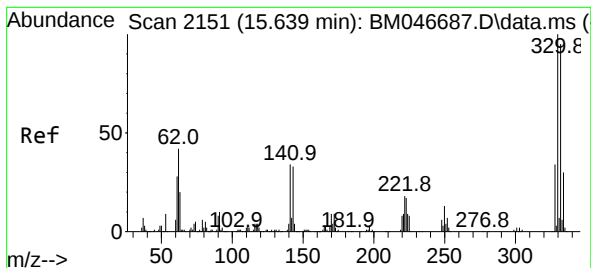
Reviewed By :Yogesh Patel 07/19/2024  
Supervised By :mohammad ahmed 07/19/2024



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.134 min Scan# 1895  
Delta R.T. -0.005 min  
Lab File: BM046717.D  
Acq: 19 Jul 2024 00:40

Tgt Ion:164 Resp: 252374  
Ion Ratio Lower Upper  
164 100  
162 100.4 79.0 118.6  
160 44.5 34.6 51.8





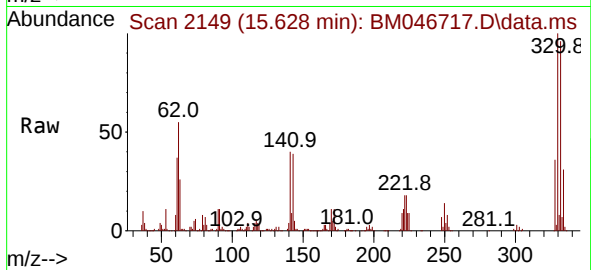
#42  
2,4,6-Tribromophenol  
Concen: 84.917 ng  
RT: 15.628 min Scan# 2151  
Delta R.T. -0.011 min  
Lab File: BM046717.D  
Acq: 19 Jul 2024 00:40

Instrument :

BNA\_M

ClientSampleId :

WC-CTW2-BL-03



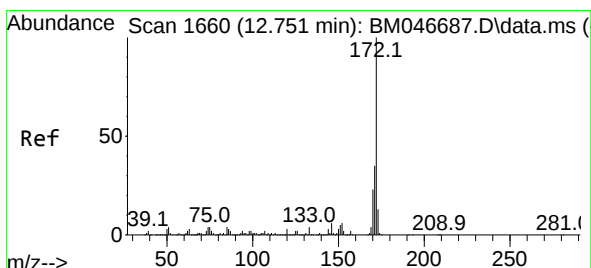
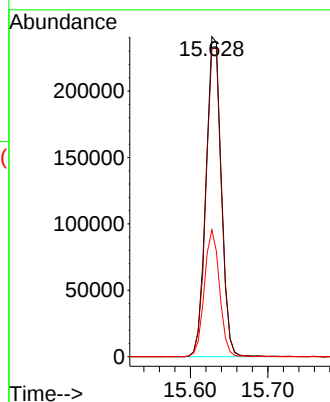
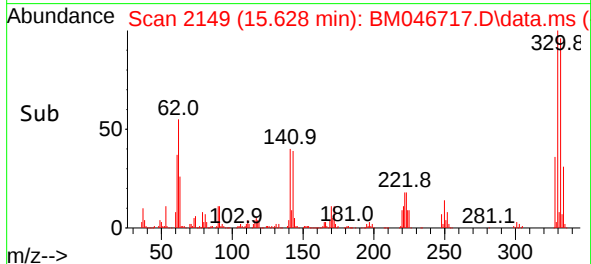
Tgt Ion:330 Resp: 33241  
Ion Ratio Lower Upper  
330 100  
332 96.6 75.5 113.3  
141 39.0 29.7 44.5

Manual Integrations

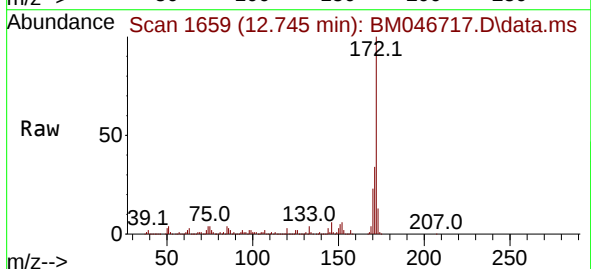
APPROVED

Reviewed By :Yogesh Patel 07/19/2024

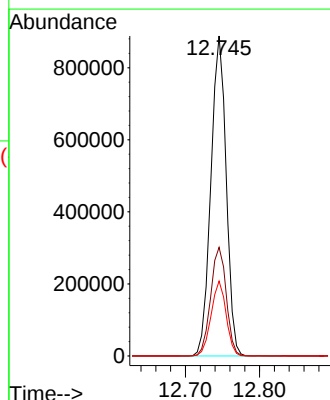
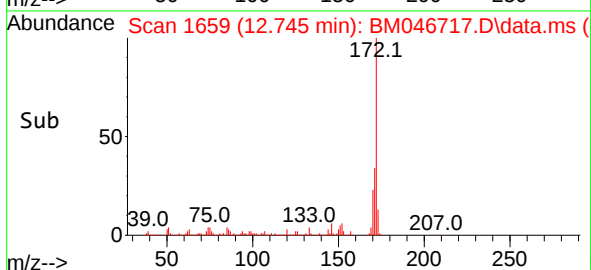
Supervised By :mohammad ahmed 07/19/2024

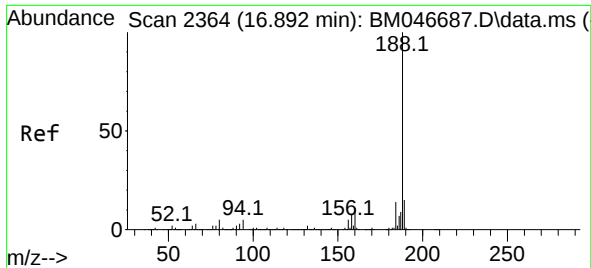


#45  
2-Fluorobiphenyl  
Concen: 71.112 ng  
RT: 12.745 min Scan# 1659  
Delta R.T. -0.006 min  
Lab File: BM046717.D  
Acq: 19 Jul 2024 00:40



Tgt Ion:172 Resp: 1270548  
Ion Ratio Lower Upper  
172 100  
171 33.9 27.8 41.8  
170 23.4 18.5 27.7





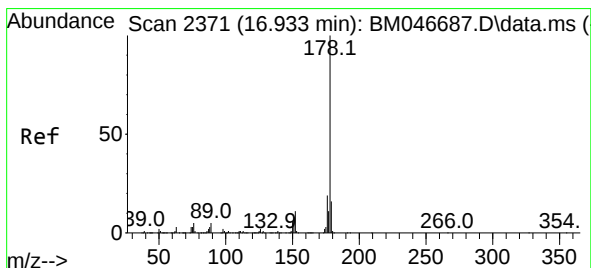
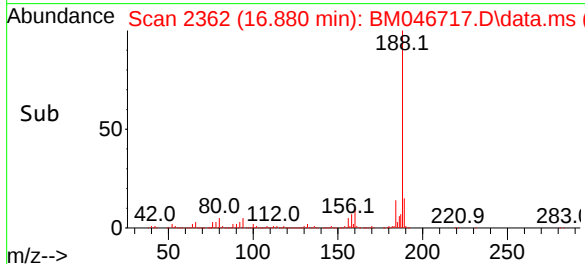
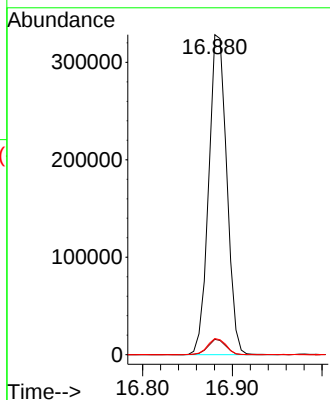
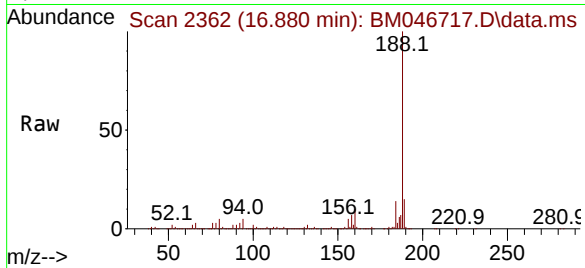
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 16.880 min Scan# 21  
Delta R.T. -0.011 min  
Lab File: BM046717.D  
Acq: 19 Jul 2024 00:40

Instrument :  
BNA\_M  
ClientSampleId :  
WC-CTW2-BL-03

Tgt Ion:188 Resp: 459024  
Ion Ratio Lower Upper  
188 100  
94 4.8 3.8 5.6  
80 5.1 4.2 6.2

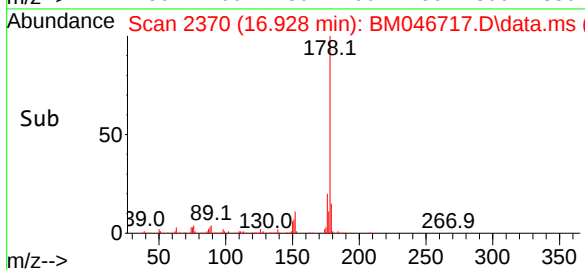
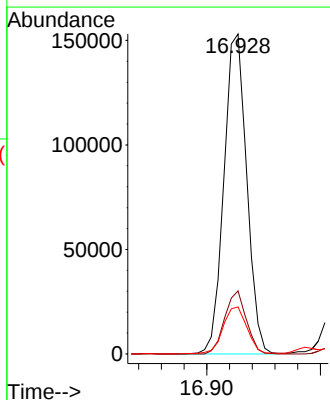
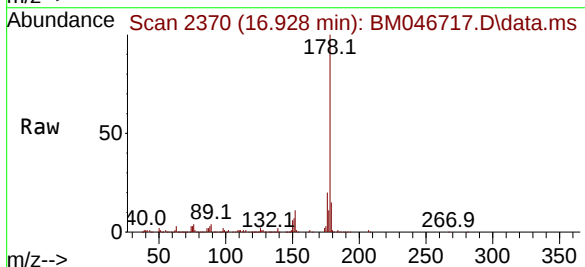
Manual Integrations  
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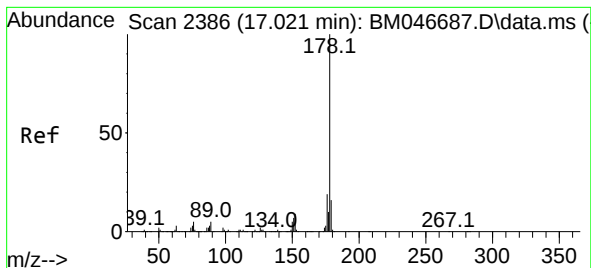
Reviewed By :Yogesh Patel 07/19/2024  
Supervised By :mohammad ahmed 07/19/2024



#71  
Phenanthrene  
Concen: 9.381 ng  
RT: 16.928 min Scan# 2370  
Delta R.T. -0.006 min  
Lab File: BM046717.D  
Acq: 19 Jul 2024 00:40

Tgt Ion:178 Resp: 213854  
Ion Ratio Lower Upper  
178 100  
176 19.7 15.0 22.6  
179 14.7 12.7 19.1





#72

Anthracene

Concen: 2.054 ng

RT: 17.016 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM046717.D

Acq: 19 Jul 2024 00:40

Instrument :

BNA\_M

ClientSampleId :

WC-CTW2-BL-03

Tgt Ion:178 Resp: 4633

Ion Ratio Lower Upper

178 100

176 20.3 14.9 22.3

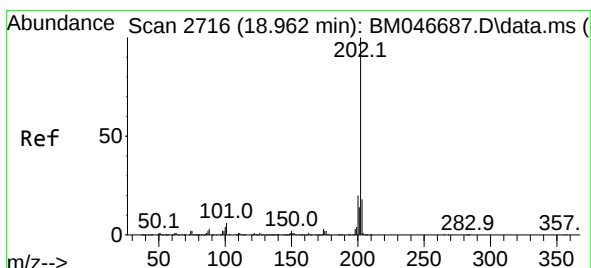
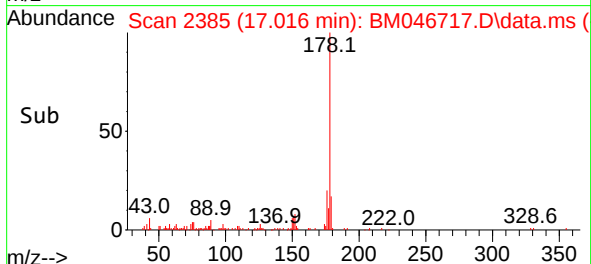
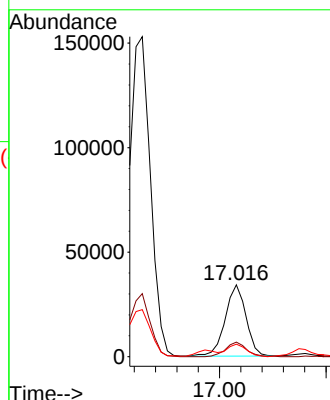
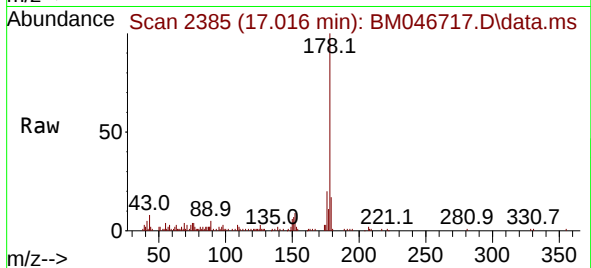
179 17.3 12.4 18.6

Manual Integrations

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Reviewed By :Yogesh Patel 07/19/2024

Supervised By :mohammad ahmed 07/19/2024



#75

Fluoranthene

Concen: 14.119 ng

RT: 18.951 min Scan# 2714

Delta R.T. -0.011 min

Lab File: BM046717.D

Acq: 19 Jul 2024 00:40

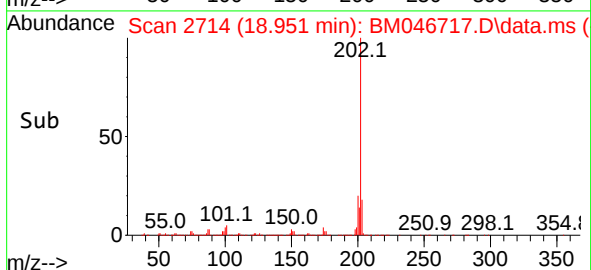
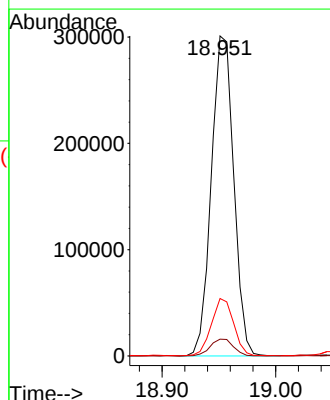
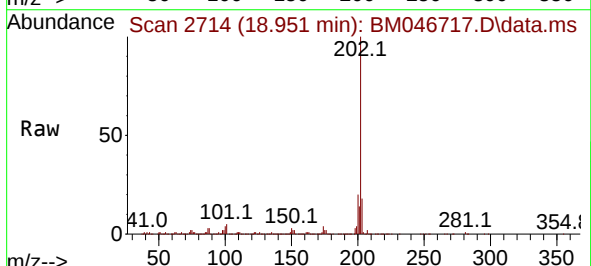
Tgt Ion:202 Resp: 413568

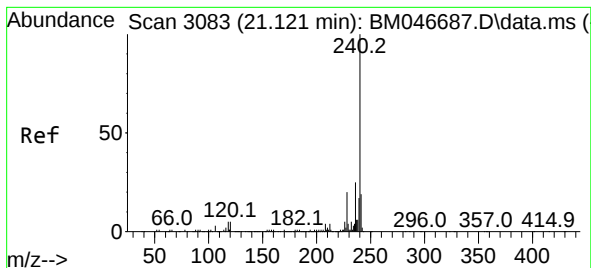
Ion Ratio Lower Upper

202 100

101 5.3 0.0 25.5

203 18.0 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.110 min Scan# 3081

Delta R.T. -0.011 min

Lab File: BM046717.D

Acq: 19 Jul 2024 00:40

Instrument :

BNA\_M

ClientSampleId :

WC-CTW2-BL-03

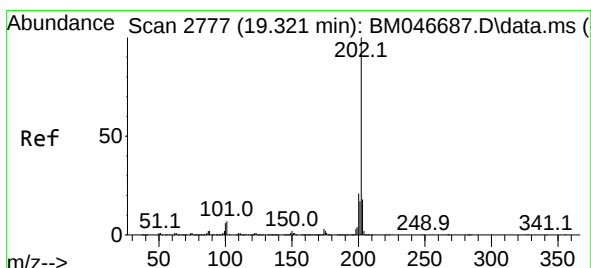
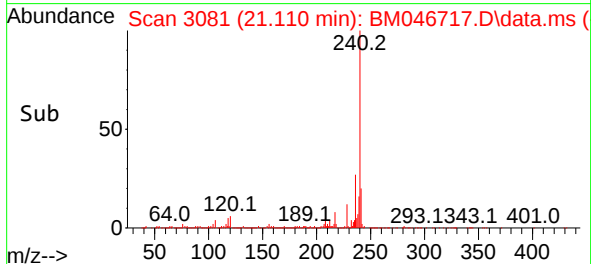
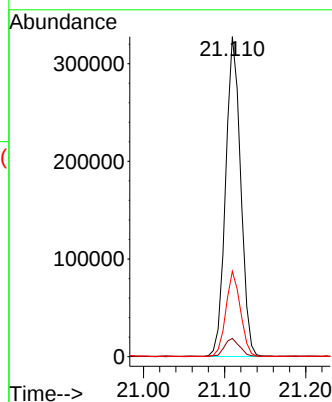
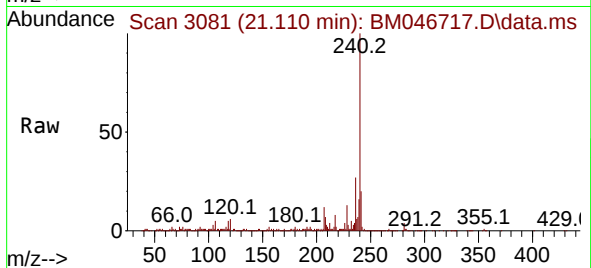
Tgt Ion:240 Resp: 42268  
Ion Ratio Lower Upper  
240 100  
120 5.7 3.9 5.9  
236 26.7 20.2 30.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/19/2024

Supervised By :mohammad ahmed 07/19/2024



#78

Pyrene

Concen: 12.237 ng

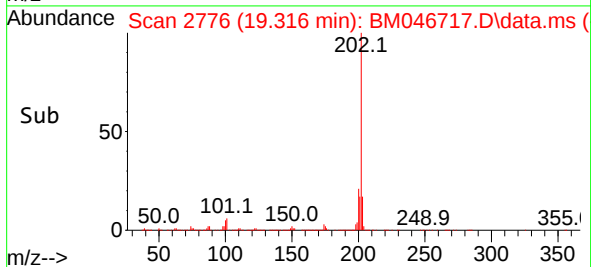
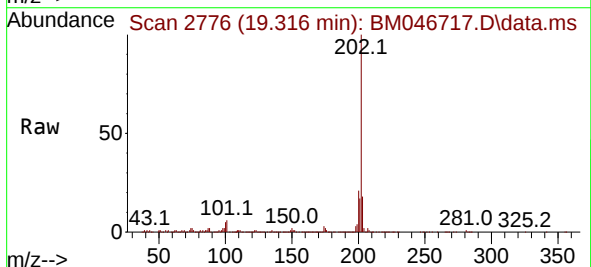
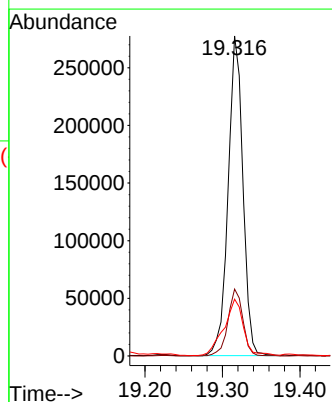
RT: 19.316 min Scan# 2776

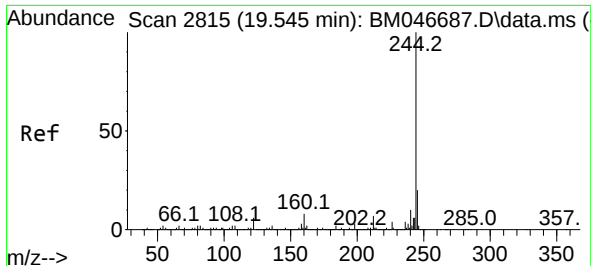
Delta R.T. -0.006 min

Lab File: BM046717.D

Acq: 19 Jul 2024 00:40

Tgt Ion:202 Resp: 368232  
Ion Ratio Lower Upper  
202 100  
200 20.9 16.7 25.1  
203 17.8 14.2 21.4





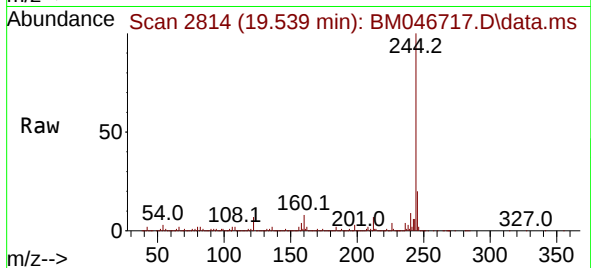
#79  
Terphenyl-d14  
Concen: 62.041 ng  
RT: 19.539 min Scan# 2814  
Delta R.T. -0.006 min  
Lab File: BM046717.D  
Acq: 19 Jul 2024 00:40

Instrument :

BNA\_M

ClientSampleId :

WC-CTW2-BL-03



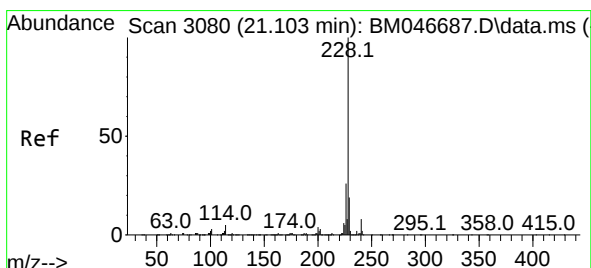
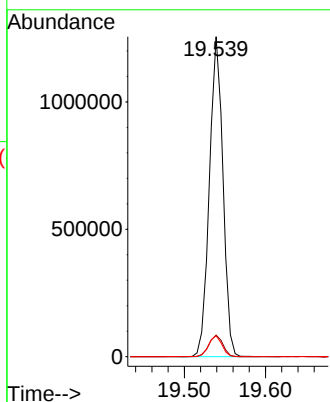
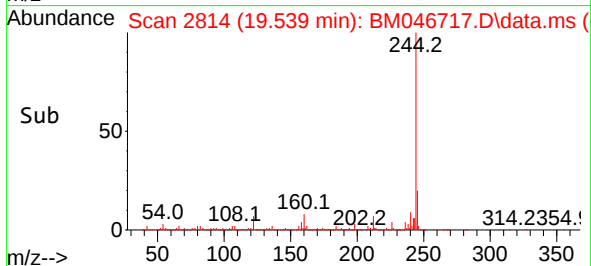
Tgt Ion:244 Resp: 145011  
Ion Ratio Lower Upper  
244 100  
212 6.8 5.5 8.3  
122 6.6 5.0 7.6

Manual Integrations

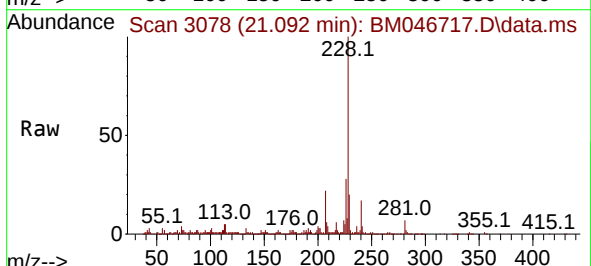
APPROVED

Reviewed By :Yogesh Patel 07/19/2024

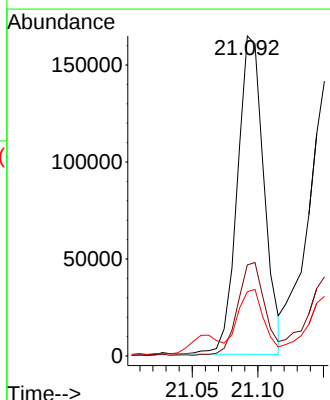
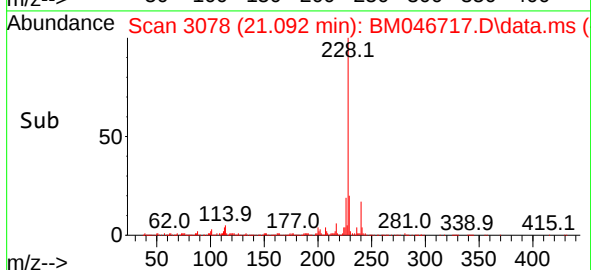
Supervised By :mohammad ahmed 07/19/2024

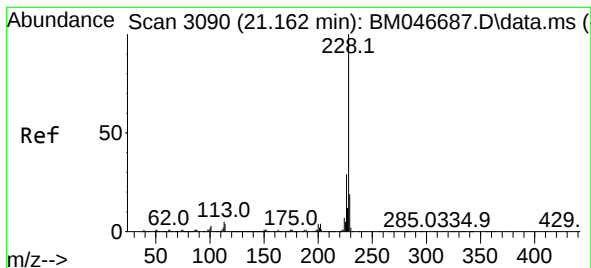


#81  
Benzo(a)anthracene  
Concen: 8.288 ng  
RT: 21.092 min Scan# 3078  
Delta R.T. -0.011 min  
Lab File: BM046717.D  
Acq: 19 Jul 2024 00:40



Tgt Ion:228 Resp: 231811  
Ion Ratio Lower Upper  
228 100  
226 28.5 21.1 31.7  
229 20.0 15.4 23.0





#83

Chrysene

Concen: 8.663 ng m

RT: 21.151 min Scan# 3090

Delta R.T. -0.011 min

Lab File: BM046717.D

Acq: 19 Jul 2024 00:40

Instrument :

BNA\_M

ClientSampleId :

WC-CTW2-BL-03

Tgt Ion:228 Resp: 225928

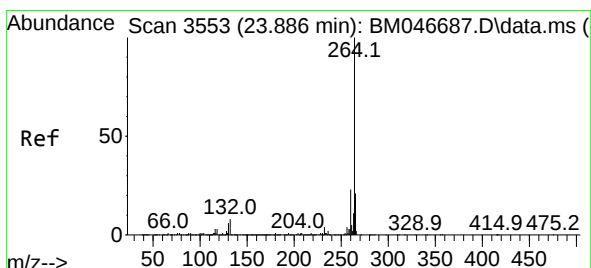
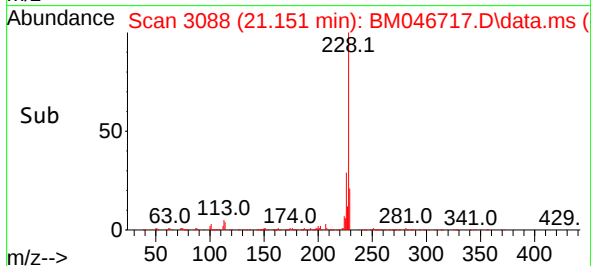
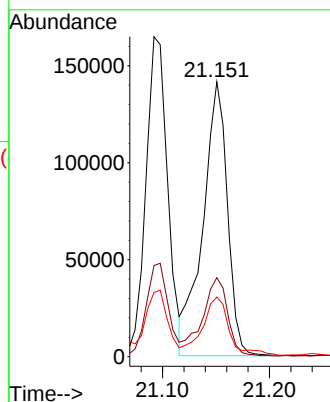
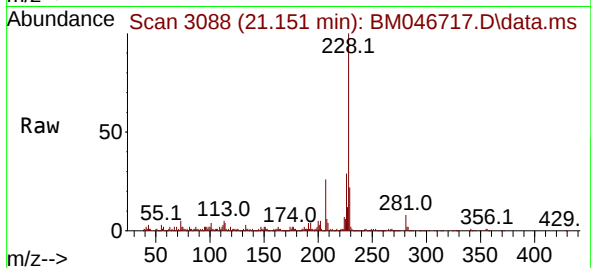
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 28.8  | 23.6  | 35.4  |
| 229 | 21.7  | 15.4  | 23.2  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/19/2024

Supervised By :mohammad ahmed 07/19/2024



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.874 min Scan# 3551

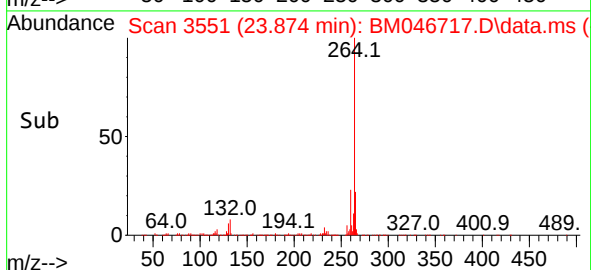
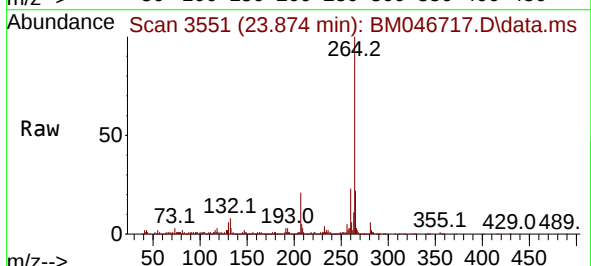
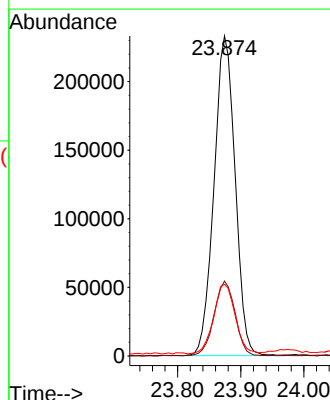
Delta R.T. -0.011 min

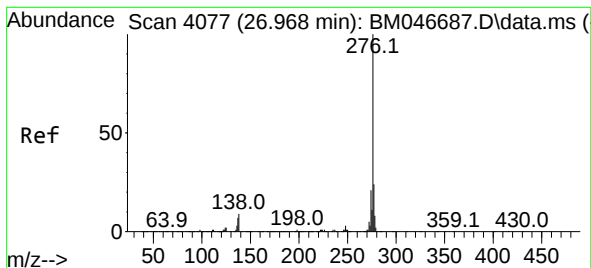
Lab File: BM046717.D

Acq: 19 Jul 2024 00:40

Tgt Ion:264 Resp: 540333

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.4  | 18.1  | 27.1  |
| 265 | 22.4  | 16.9  | 25.3  |





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.568 ng m

RT: 26.933 min Scan# 4077

Delta R.T. -0.035 min

Lab File: BM046717.D

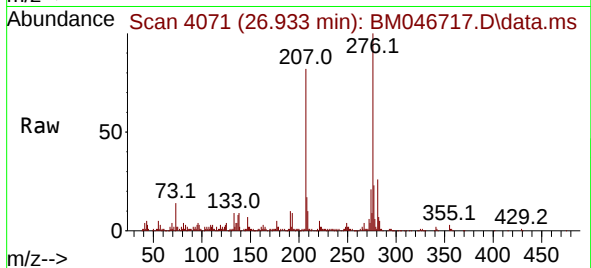
Acq: 19 Jul 2024 00:40

Instrument :

BNA\_M

ClientSampleId :

WC-CTW2-BL-03



Tgt Ion: 276 Resp: 229918

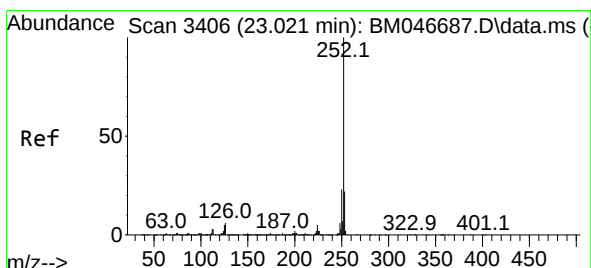
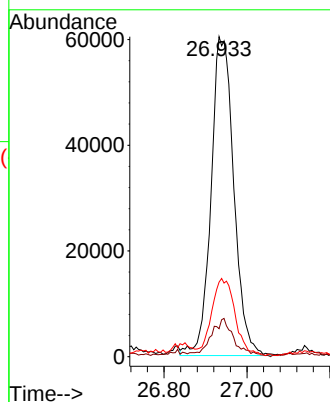
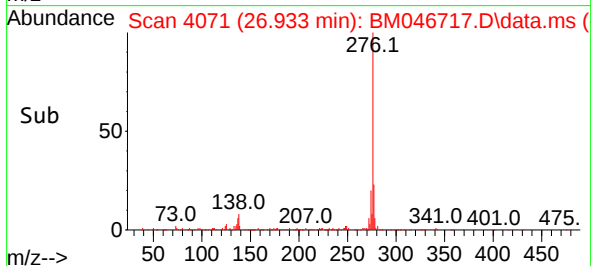
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 12.4  | 7.0   | 10.4  |
| 277 | 24.7  | 20.2  | 30.4  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/19/2024

Supervised By :mohammad ahmed 07/19/2024



#88

Benzo(b)fluoranthene

Concen: 10.465 ng

RT: 23.009 min Scan# 3404

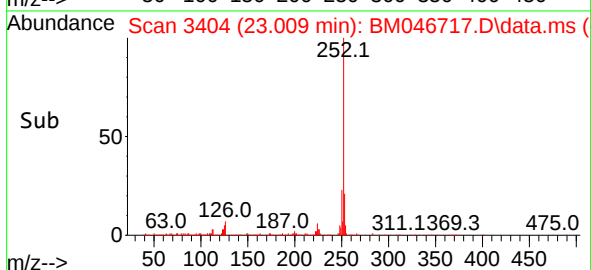
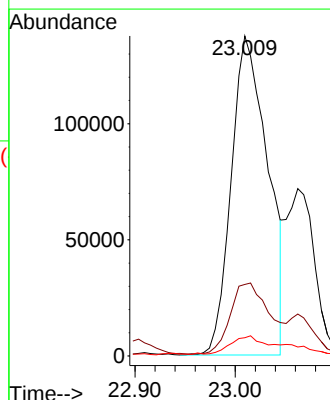
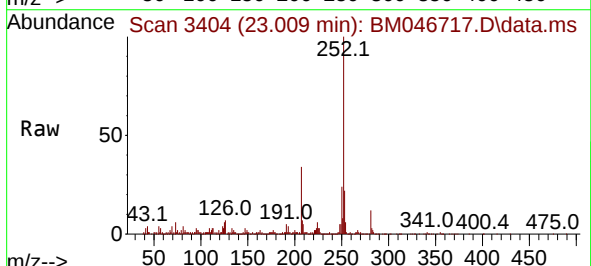
Delta R.T. -0.011 min

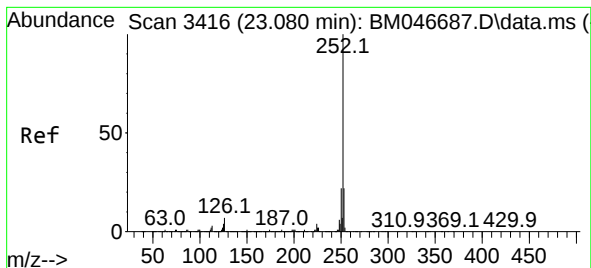
Lab File: BM046717.D

Acq: 19 Jul 2024 00:40

Tgt Ion: 252 Resp: 348163

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.3  | 17.5  | 26.3  |
| 125 | 5.7   | 3.9   | 5.9   |





#89

Benzo(k)fluoranthene

Concen: 4.445 ng m

RT: 23.062 min Scan# 3416

Delta R.T. -0.017 min

Lab File: BM046717.D

Acq: 19 Jul 2024 00:40

Instrument :

BNA\_M

ClientSampleId :

WC-CTW2-BL-03

Tgt Ion:252 Resp: 139580

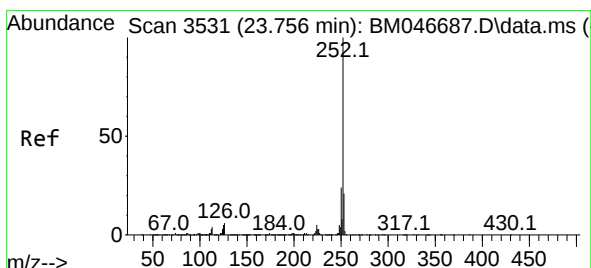
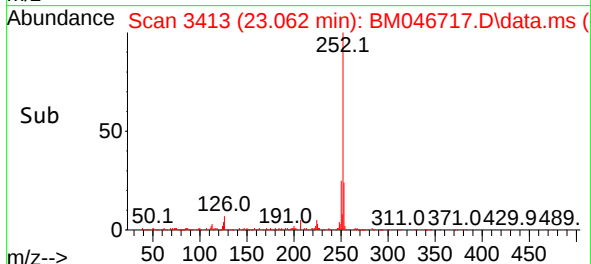
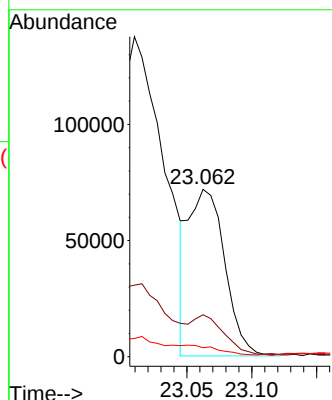
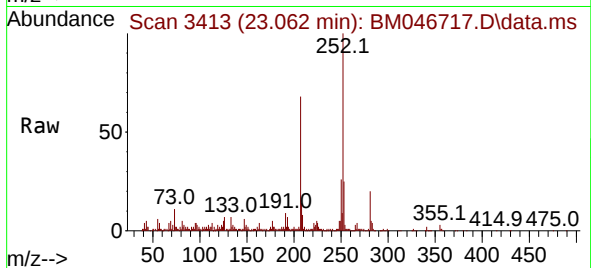
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 25.1  | 17.4  | 26.2  |
| 125 | 5.4   | 3.4   | 5.2   |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/19/2024

Supervised By :mohammad ahmed 07/19/2024



#90

Benzo(a)pyrene

Concen: 9.244 ng

RT: 23.745 min Scan# 3529

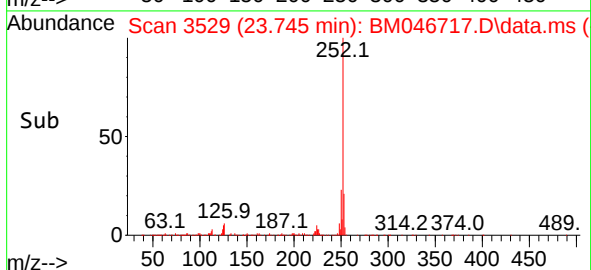
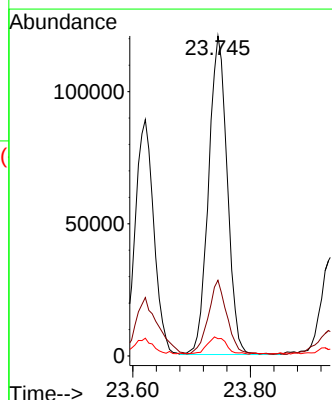
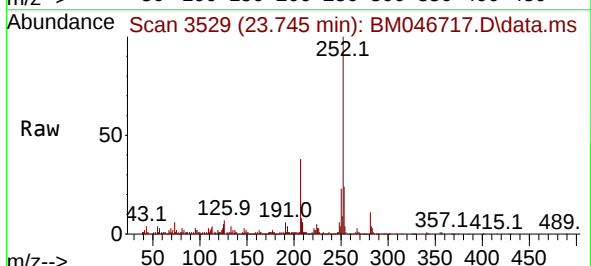
Delta R.T. -0.011 min

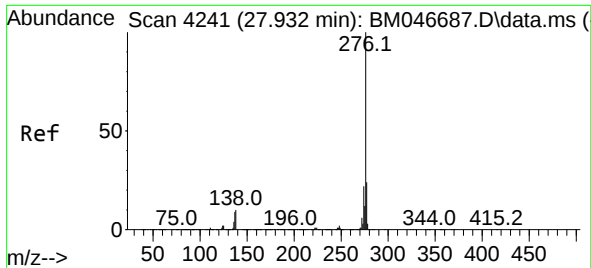
Lab File: BM046717.D

Acq: 19 Jul 2024 00:40

Tgt Ion:252 Resp: 266051

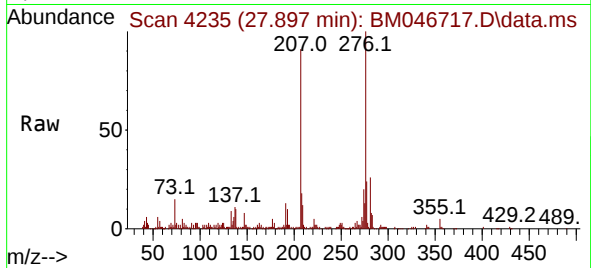
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.6  | 16.8  | 25.2  |
| 125 | 5.4   | 4.2   | 6.2   |





#92  
 Benzo(g,h,i)perylene  
 Concen: 7.545 ng m  
 RT: 27.897 min Scan# 41  
 Delta R.T. -0.035 min  
 Lab File: BM046717.D  
 Acq: 19 Jul 2024 00:40

Instrument :  
 BNA\_M  
 ClientSampleId :  
 WC-CTW2-BL-03



Tgt Ion:276 Resp: 226220  
 Ion Ratio Lower Upper  
 276 100  
 277 23.8 19.4 29.0  
 138 10.2 8.1 12.1

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/19/2024  
 Supervised By :mohammad ahmed 07/19/2024

