

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080423\  
 Data File : BM041299.D  
 Acq On : 04 Aug 2023 18:01  
 Operator : MA/JU  
 Sample : 03815-01DL 10X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BUILDING-A-1-(0-5)DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/07/2023  
 Supervised By :mohammad ahmed 08/07/2023

Quant Time: Aug 05 01:28:50 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM072823.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 02 19:20:51 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.792  | 152  | 136858   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.598 | 136  | 595675   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.457 | 164  | 391869   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.215 | 188  | 920988   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.427 | 240  | 939772   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 23.797 | 264  | 969135   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.363  | 112  | 65793    | 7.185  | ng    | 0.00     |
| 7) Phenol-d6                | 6.975  | 99   | 84065    | 7.082  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.969  | 82   | 54678    | 4.269  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.962 | 330  | 37206    | 6.713  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.074 | 172  | 129459   | 4.173  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.856 | 244  | 233210   | 4.487  | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 38) 1-Methylnaphthalene     | 12.486 | 142  | 62003    | 3.040  | ng    | 97       |
| 49) Acenaphthylene          | 14.180 | 152  | 173083   | 4.521  | ng    | 100      |
| 52) Acenaphthene            | 14.521 | 154  | 49259    | 2.136  | ng    | 98       |
| 58) Fluorene                | 15.509 | 166  | 137006   | 4.615  | ng    | 99       |
| 71) Phenanthrene            | 17.262 | 178  | 927944   | 18.134 | ng    | 100      |
| 72) Anthracene              | 17.351 | 178  | 404159   | 7.986  | ng    | 99       |
| 75) Fluoranthene            | 19.286 | 202  | 1581265  | 27.505 | ng    | 99       |
| 78) Pyrene                  | 19.650 | 202  | 1738294  | 26.450 | ng    | 100      |
| 81) Benzo(a)anthracene      | 21.409 | 228  | 905206   | 14.208 | ng    | 96       |
| 83) Chrysene                | 21.462 | 228  | 761767   | 12.362 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.238 | 276  | 315313   | 4.425  | ng    | # 95     |
| 88) Benzo(b)fluoranthene    | 23.080 | 252  | 815420   | 14.163 | ng    | 99       |
| 89) Benzo(k)fluoranthene    | 23.121 | 252  | 237244m  | 4.028  | ng    |          |
| 90) Benzo(a)pyrene          | 23.691 | 252  | 702883   | 12.706 | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 26.991 | 276  | 308213   | 5.300  | ng    | 98       |
| -----                       |        |      |          |        |       |          |

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

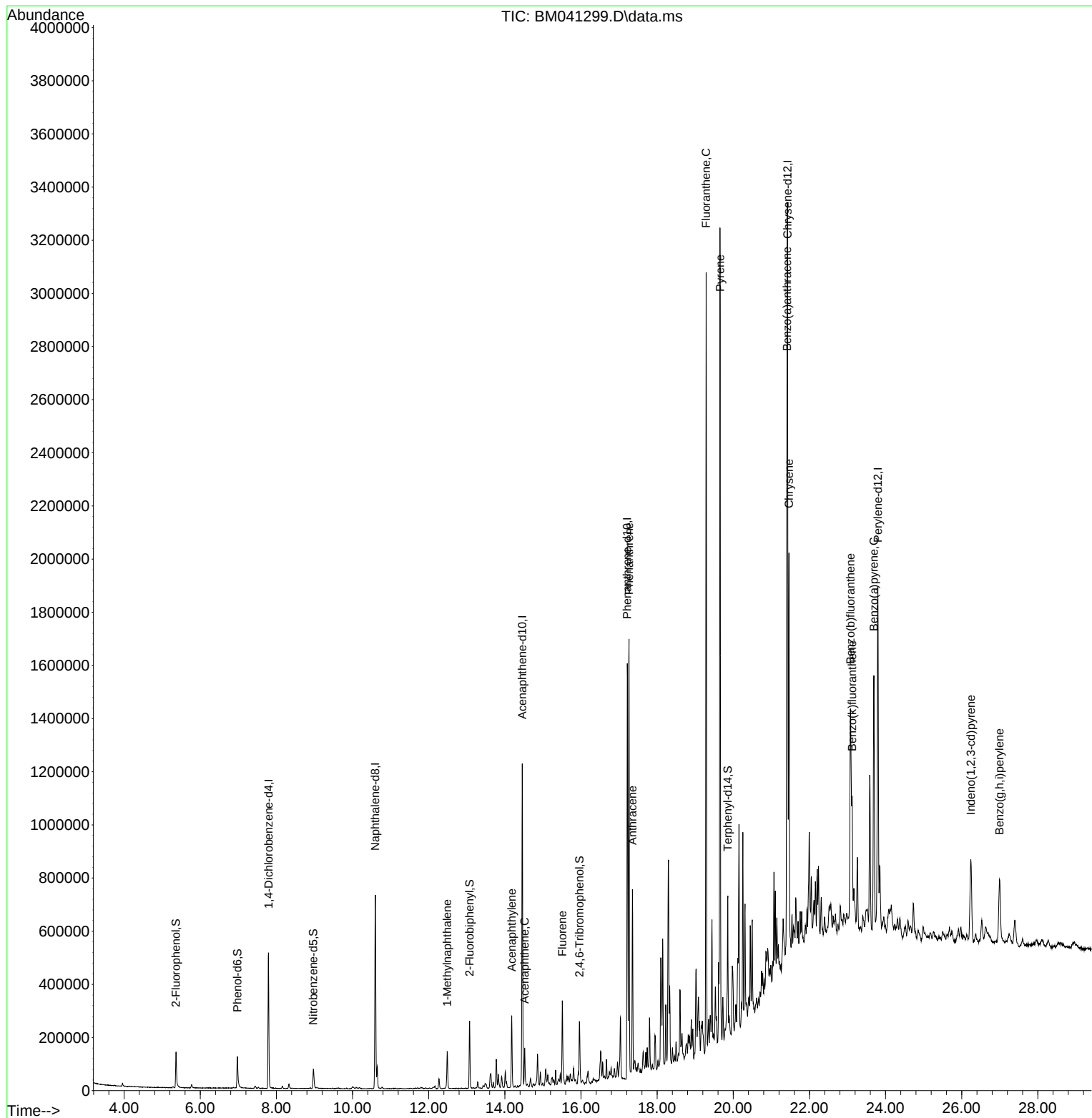
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080423\  
Data File : BM041299.D  
Acq On : 04 Aug 2023 18:01  
Operator : MA/JU  
Sample : 03815-01DL 10X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

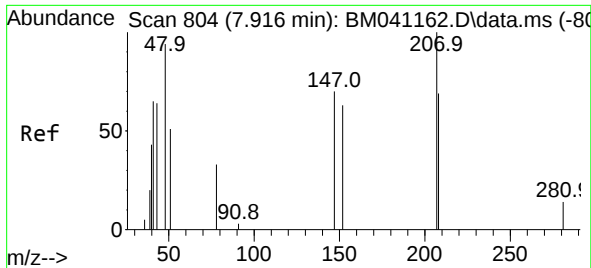
Instrument :  
BNA\_M  
ClientSampleId :  
BUILDING-A-1-(0-5)DL

Quant Time: Aug 05 01:28:50 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM072823.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 02 19:20:51 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

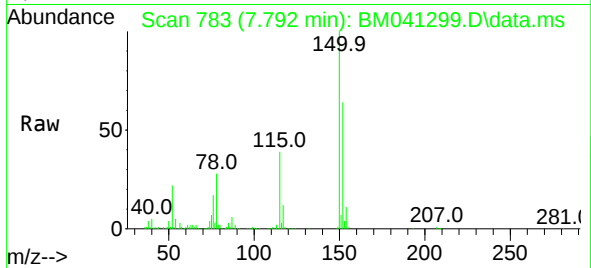
Reviewed By :Yogesh Patel 08/07/2023  
Supervised By :mohammad ahmed 08/07/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.792 min Scan# 71  
Delta R.T. -0.001 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01

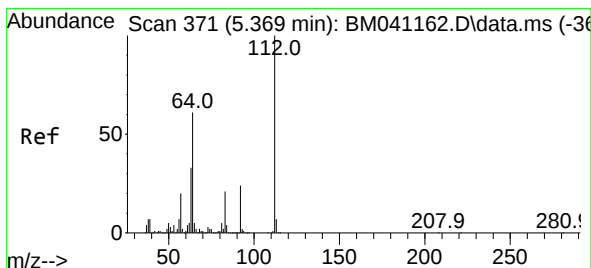
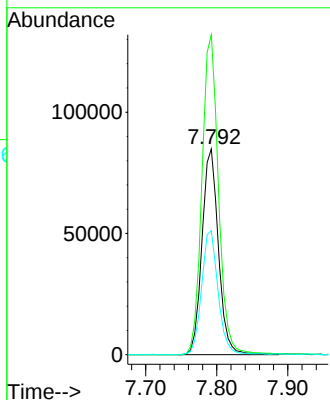
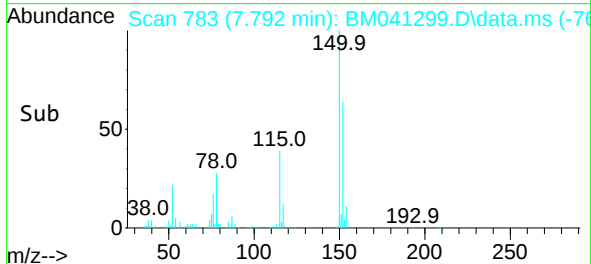
Instrument :  
BNA\_M  
ClientSampleId :  
BUILDING-A-1-(0-5)DL



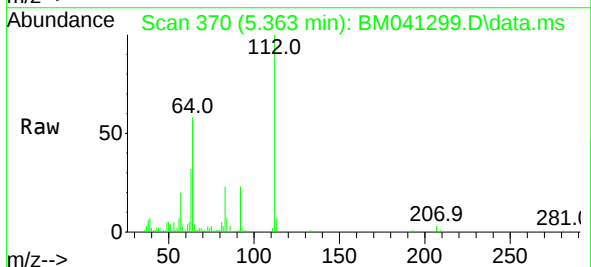
Tgt Ion:152 Resp: 13685  
Ion Ratio Lower Upper  
152 100  
150 155.5 125.5 188.3  
115 60.3 48.0 72.0

Manual Integrations  
APPROVED

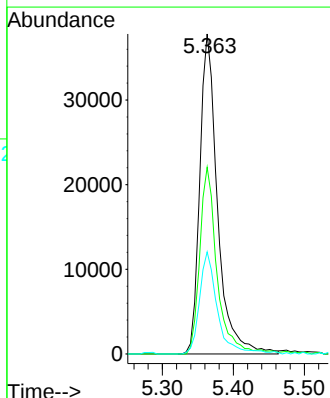
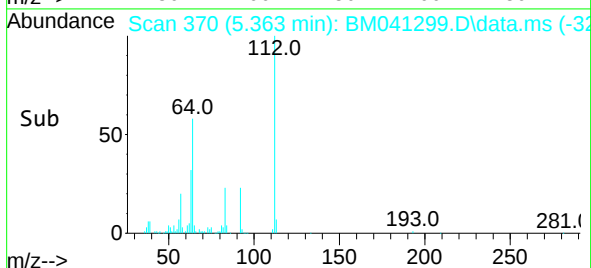
Reviewed By :Yogesh Patel 08/07/2023  
Supervised By :mohammad ahmed 08/07/2023

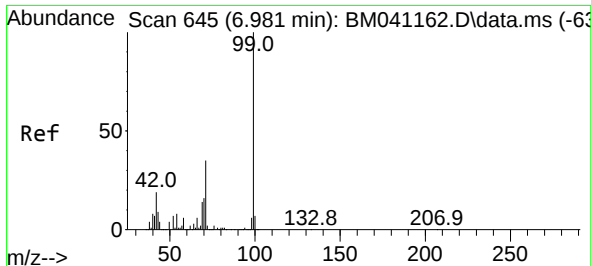


#5  
2-Fluorophenol  
Concen: 7.185 ng  
RT: 5.363 min Scan# 370  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01



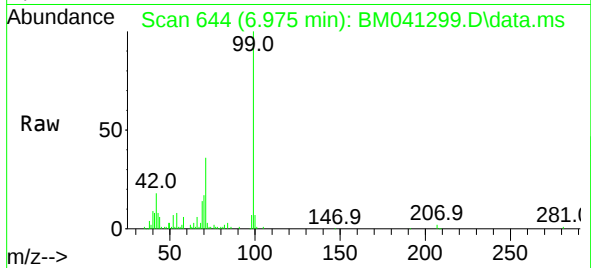
Tgt Ion:112 Resp: 65793  
Ion Ratio Lower Upper  
112 100  
64 58.4 48.5 72.7  
63 31.9 26.5 39.7





#7  
Phenol-d6  
Concen: 7.082 ng  
RT: 6.975 min Scan# 645  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01

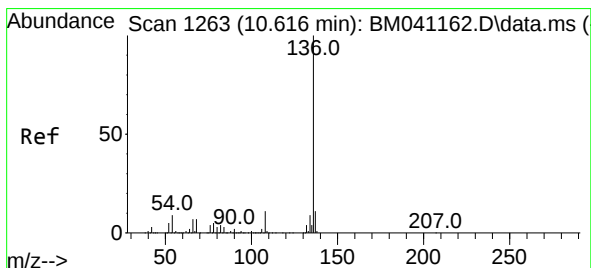
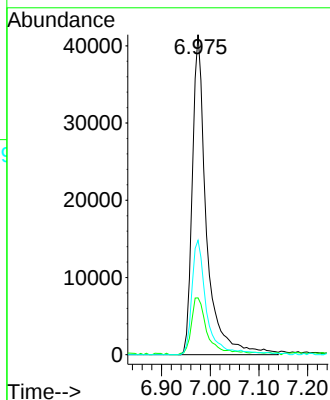
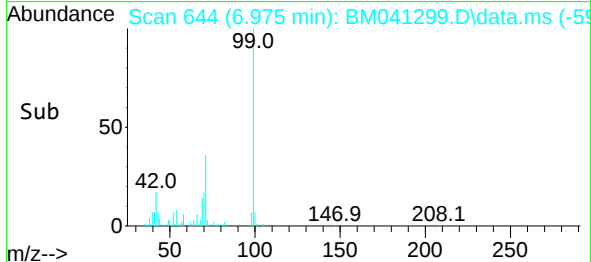
Instrument :  
BNA\_M  
ClientSampleId :  
BUILDING-A-1-(0-5)DL



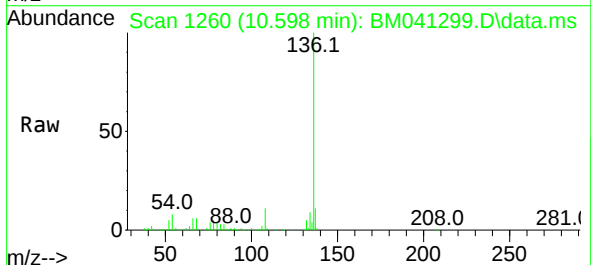
Tgt Ion: 99 Resp: 8406  
Ion Ratio Lower Upper  
99 100  
42 17.7 15.4 23.0  
71 35.7 28.2 42.4

Manual Integrations  
APPROVED

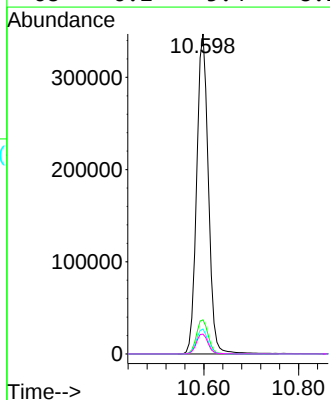
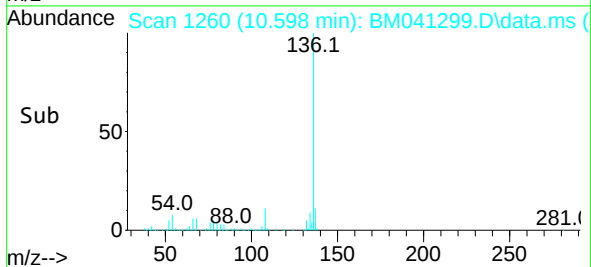
Reviewed By :Yogesh Patel 08/07/2023  
Supervised By :mohammad ahmed 08/07/2023

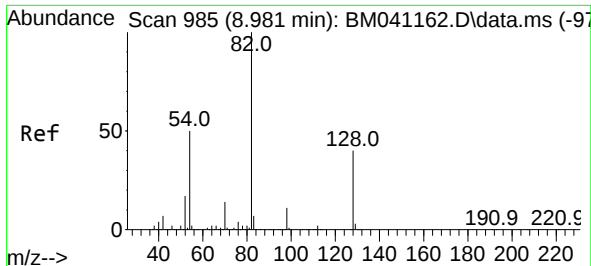


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.598 min Scan# 1260  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01



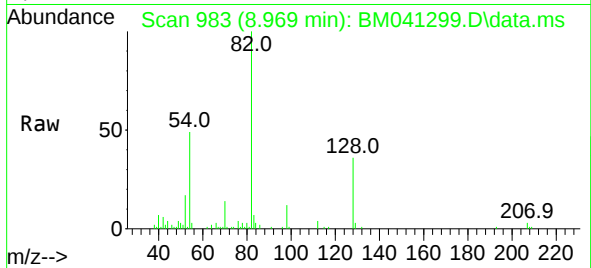
Tgt Ion:136 Resp: 595675  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.8 13.2  
54 7.8 6.9 10.3  
68 6.2 5.4 8.2





#23  
Nitrobenzene-d5  
Concen: 4.269 ng  
RT: 8.969 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01

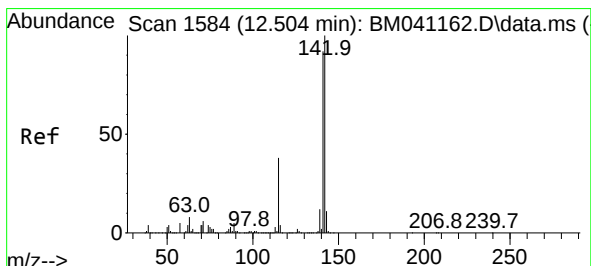
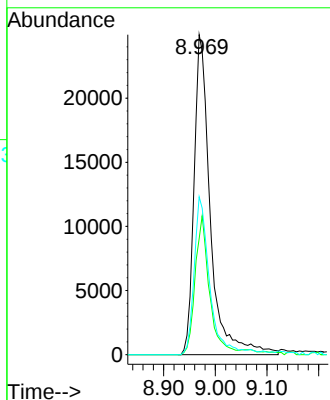
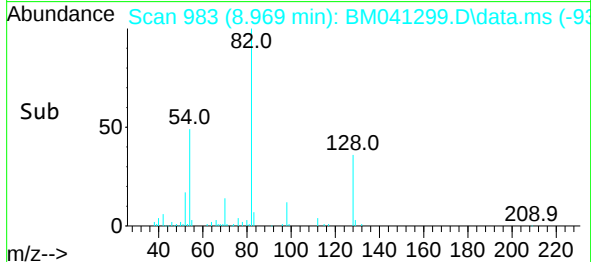
Instrument :  
BNA\_M  
ClientSampleId :  
BUILDING-A-1-(0-5)DL



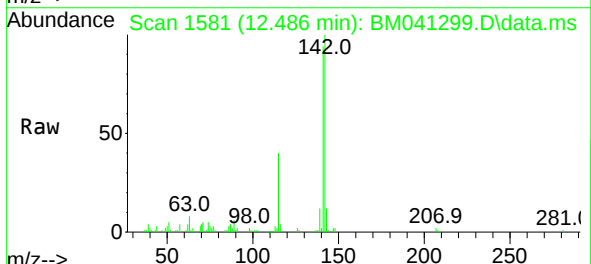
Tgt Ion: 82 Resp: 54678  
Ion Ratio Lower Upper  
82 100  
128 36.3 31.8 47.6  
54 49.3 40.1 60.1

Manual Integrations  
APPROVED

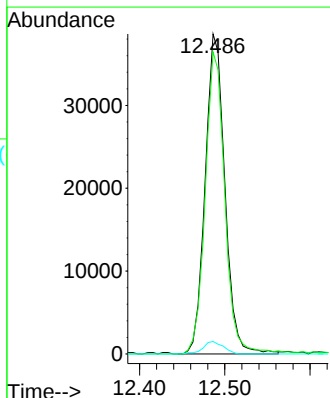
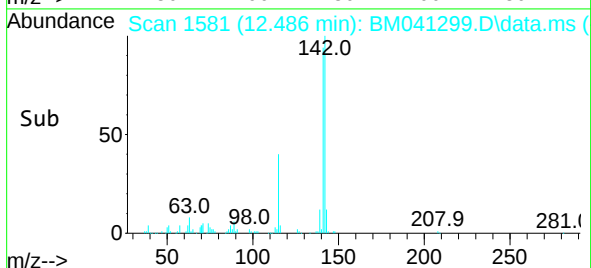
Reviewed By :Yogesh Patel 08/07/2023  
Supervised By :mohammad ahmed 08/07/2023

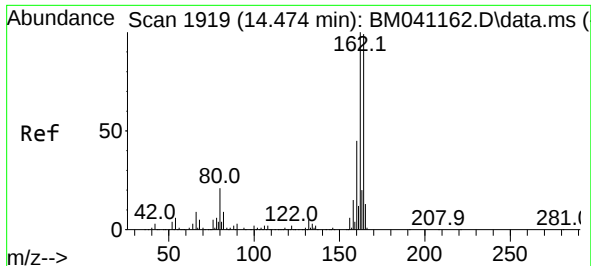


#38  
1-Methylnaphthalene  
Concen: 3.040 ng  
RT: 12.486 min Scan# 1581  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01



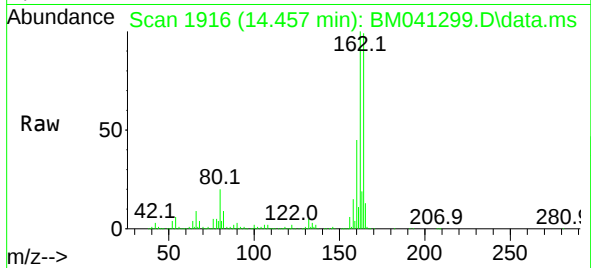
Tgt Ion:142 Resp: 62003  
Ion Ratio Lower Upper  
142 100  
141 94.3 73.4 110.2  
116 3.9 3.2 4.8





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.457 min Scan# 1916  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01

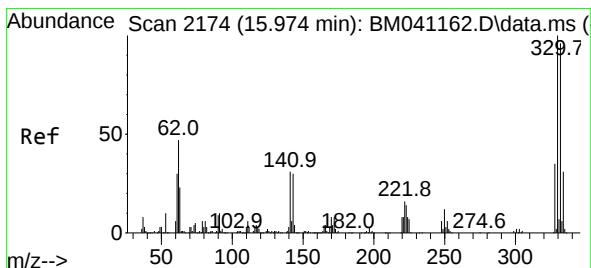
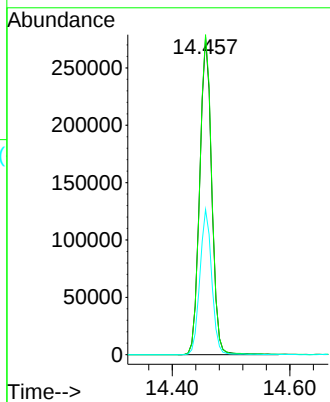
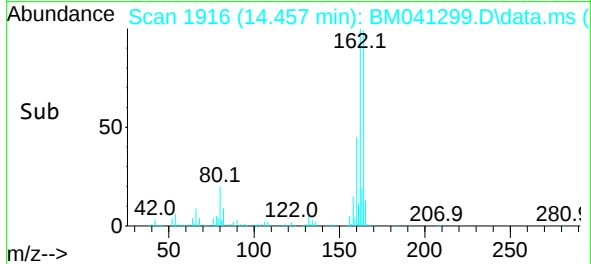
Instrument :  
BNA\_M  
ClientSampleId :  
BUILDING-A-1-(0-5)DL



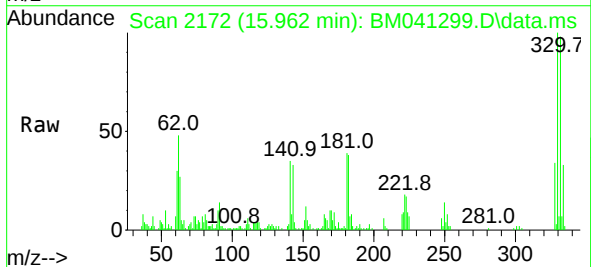
Tgt Ion:164 Resp: 391869  
Ion Ratio Lower Upper  
164 100  
162 100.9 80.4 120.6  
160 45.7 36.2 54.2

Manual Integrations  
APPROVED

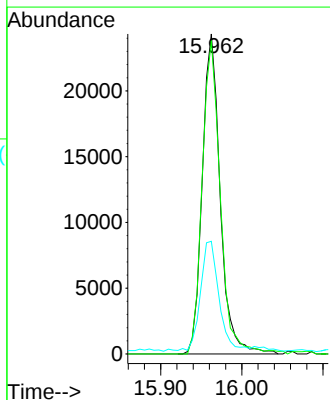
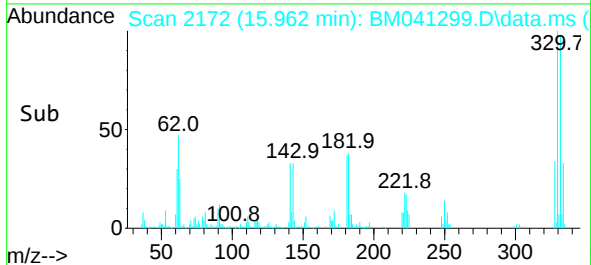
Reviewed By :Yogesh Patel 08/07/2023  
Supervised By :mohammad ahmed 08/07/2023

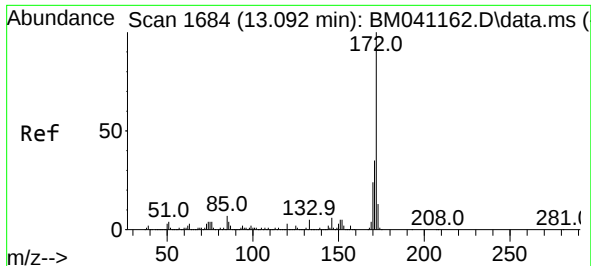


#42  
2,4,6-Tribromophenol  
Concen: 6.713 ng  
RT: 15.962 min Scan# 2172  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01



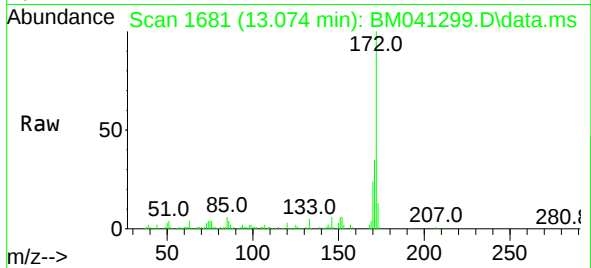
Tgt Ion:330 Resp: 37206  
Ion Ratio Lower Upper  
330 100  
332 99.3 77.7 116.5  
141 36.0 28.3 42.5





#45  
2-Fluorobiphenyl  
Concen: 4.173 ng  
RT: 13.074 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01

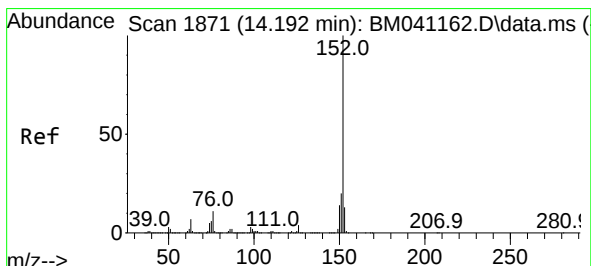
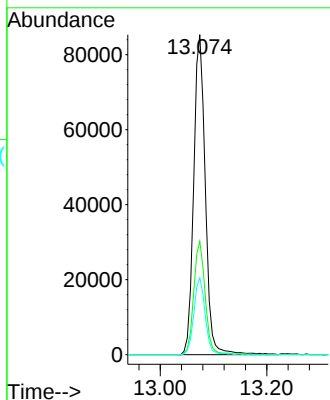
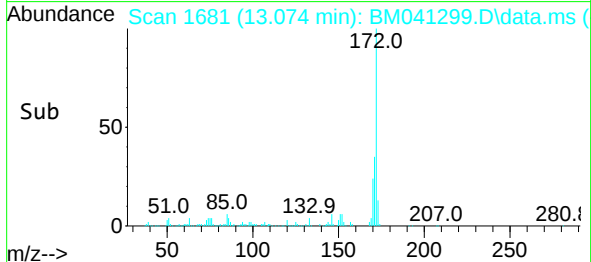
Instrument :  
BNA\_M  
ClientSampleId :  
BUILDING-A-1-(0-5)DL



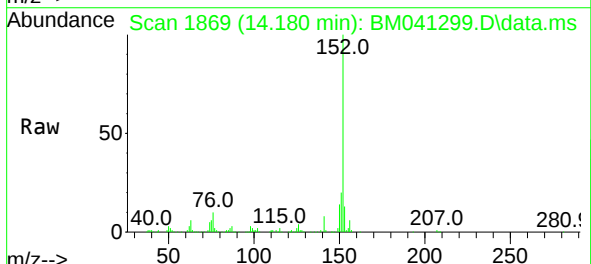
Tgt Ion:172 Resp: 129459  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.1 42.1  
170 24.0 18.9 28.3

Manual Integrations  
APPROVED

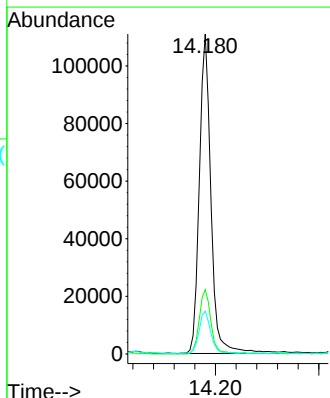
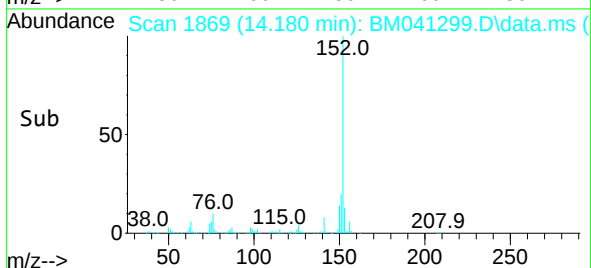
Reviewed By :Yogesh Patel 08/07/2023  
Supervised By :mohammad ahmed 08/07/2023

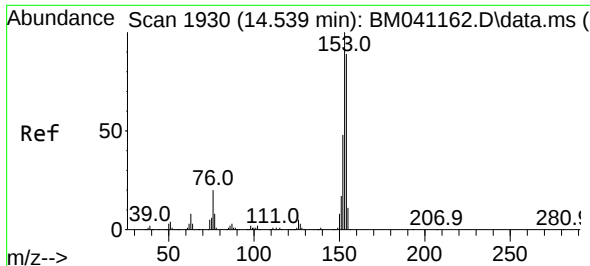


#49  
Acenaphthylene  
Concen: 4.521 ng  
RT: 14.180 min Scan# 1869  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01



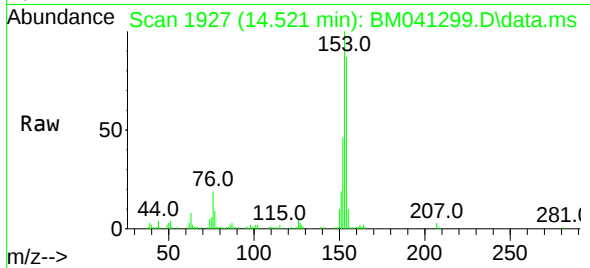
Tgt Ion:152 Resp: 173083  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.1 24.1  
153 13.4 10.5 15.7





#52  
Acenaphthene  
Concen: 2.136 ng  
RT: 14.521 min Scan# 1930  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01

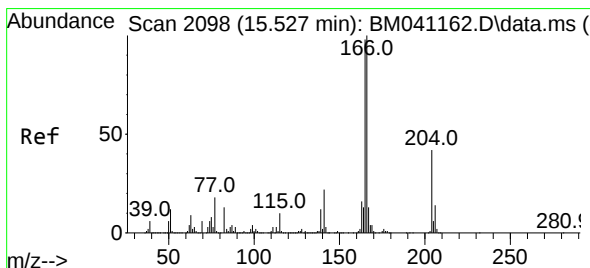
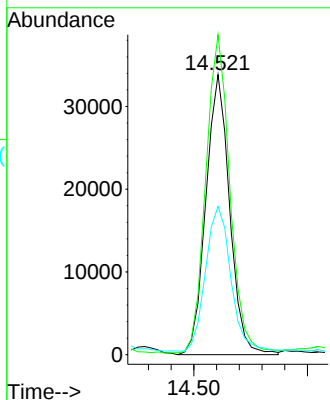
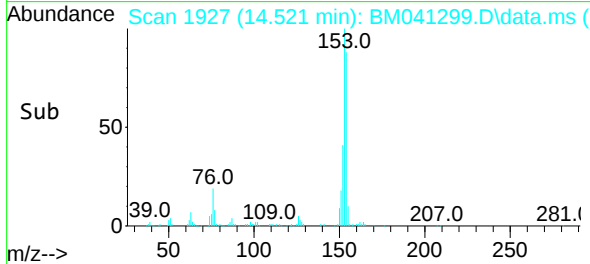
Instrument :  
BNA\_M  
ClientSampleId :  
BUILDING-A-1-(0-5)DL



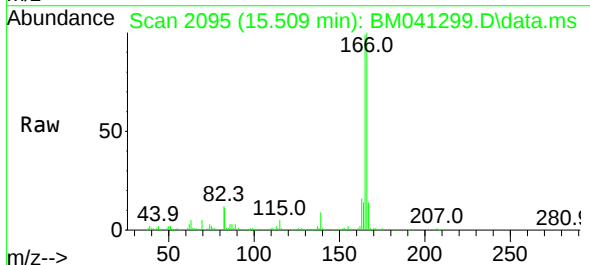
Tgt Ion:154 Resp: 49259  
Ion Ratio Lower Upper  
154 100  
153 114.3 90.2 135.4  
152 53.0 43.4 65.0

Manual Integrations  
APPROVED

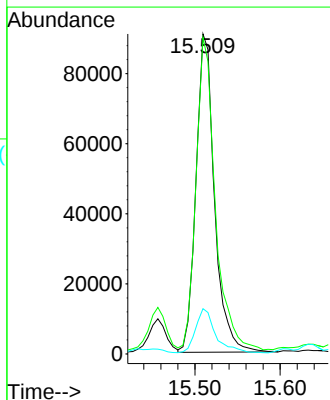
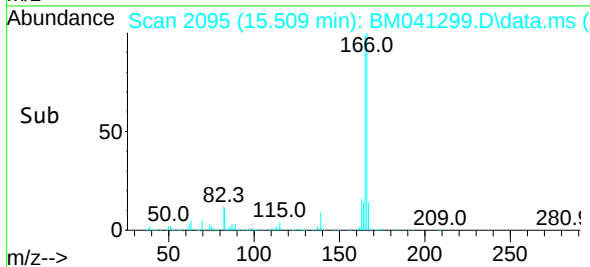
Reviewed By :Yogesh Patel 08/07/2023  
Supervised By :mohammad ahmed 08/07/2023

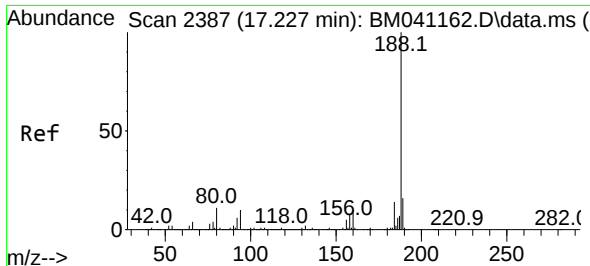


#58  
Fluorene  
Concen: 4.615 ng  
RT: 15.509 min Scan# 2095  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01



Tgt Ion:166 Resp: 137006  
Ion Ratio Lower Upper  
166 100  
165 98.8 78.2 117.4  
167 14.2 10.6 16.0





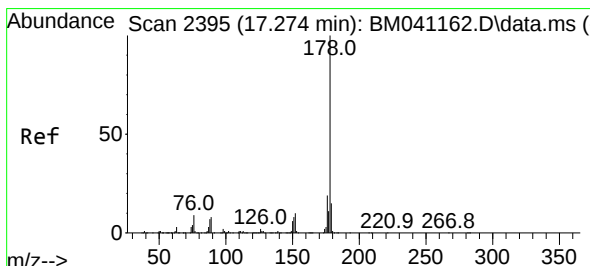
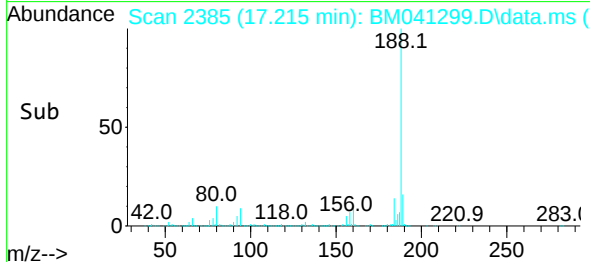
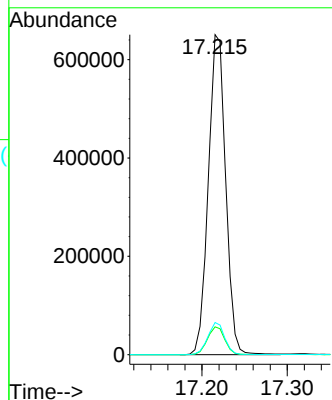
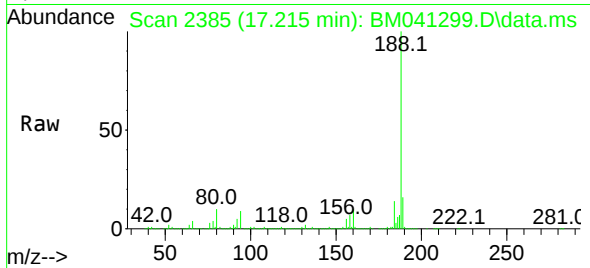
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.215 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01

Instrument :  
BNA\_M  
ClientSampleId :  
BUILDING-A-1-(0-5)DL

Tgt Ion:188 Resp: 92098  
Ion Ratio Lower Upper  
188 100  
94 8.7 8.2 12.2  
80 10.0 8.6 13.0

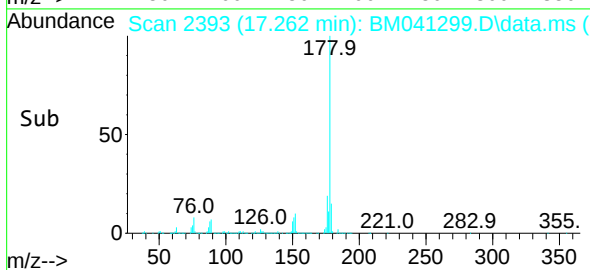
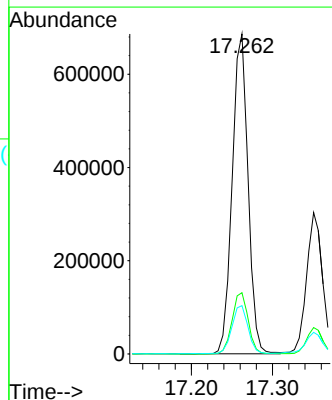
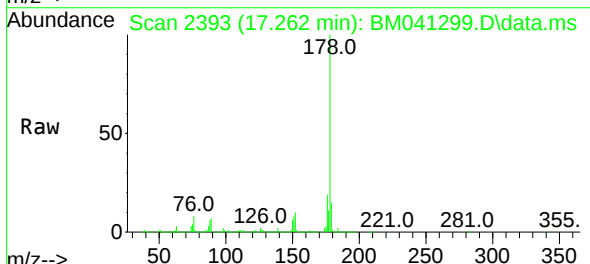
Manual Integrations  
APPROVED

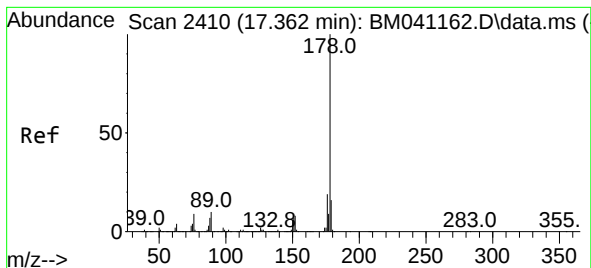
Reviewed By :Yogesh Patel 08/07/2023  
Supervised By :mohammad ahmed 08/07/2023



#71  
Phenanthrene  
Concen: 18.134 ng  
RT: 17.262 min Scan# 2393  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01

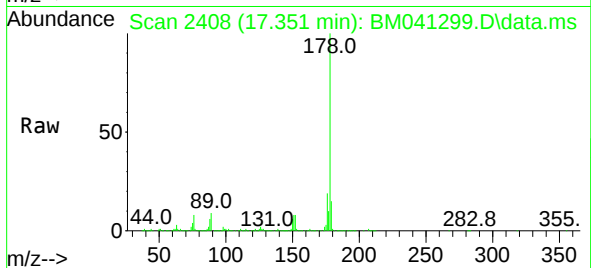
Tgt Ion:178 Resp: 927944  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.6 23.4  
179 15.1 12.1 18.1





#72  
 Anthracene  
 Concen: 7.986 ng  
 RT: 17.351 min Scan# 2410  
 Delta R.T. -0.006 min  
 Lab File: BM041299.D  
 Acq: 04 Aug 2023 18:01

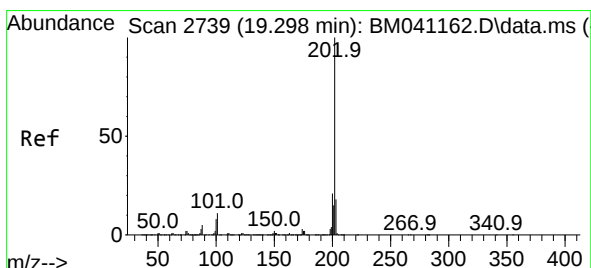
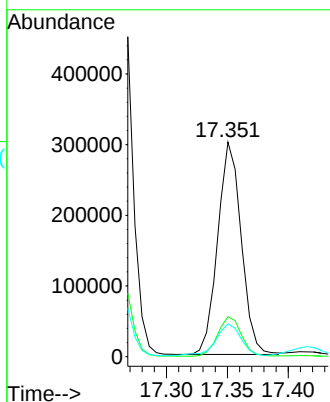
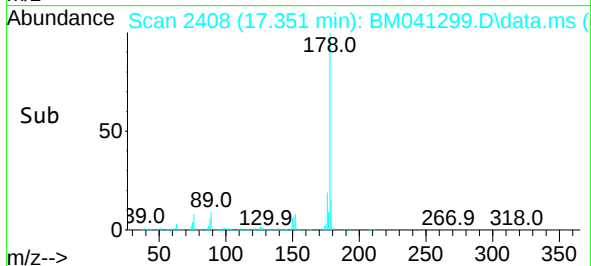
Instrument :  
 BNA\_M  
 ClientSampleId :  
 BUILDING-A-1-(0-5)DL



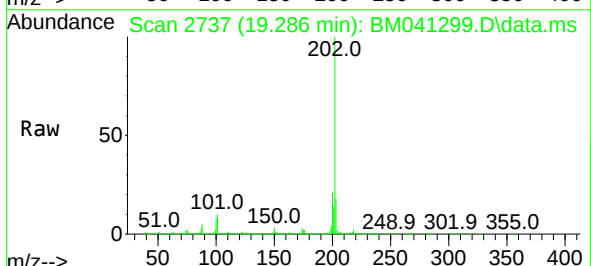
Tgt Ion:178 Resp: 404159  
 Ion Ratio Lower Upper  
 178 100  
 176 18.7 15.2 22.8  
 179 15.3 12.4 18.6

Manual Integrations  
 APPROVED

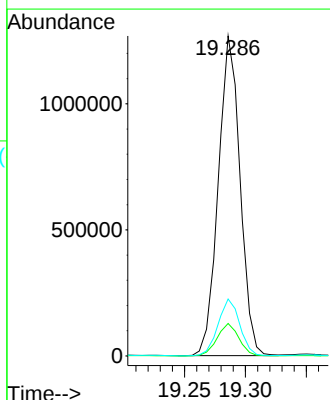
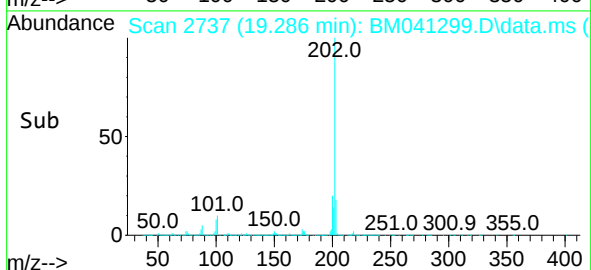
Reviewed By :Yogesh Patel 08/07/2023  
 Supervised By :mohammad ahmed 08/07/2023

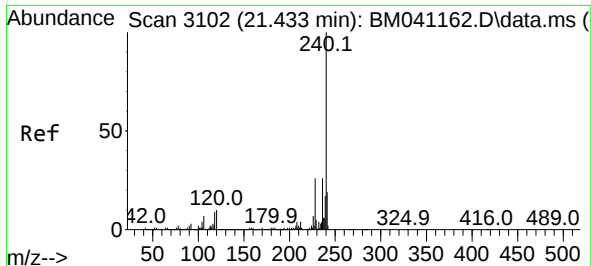


#75  
 Fluoranthene  
 Concen: 27.505 ng  
 RT: 19.286 min Scan# 2737  
 Delta R.T. -0.006 min  
 Lab File: BM041299.D  
 Acq: 04 Aug 2023 18:01



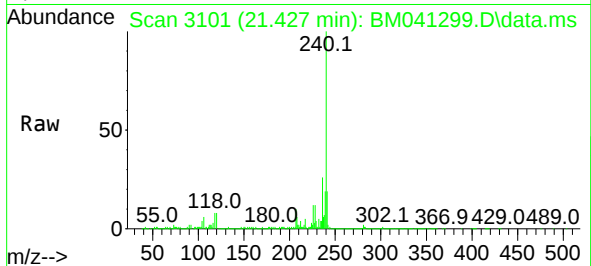
Tgt Ion:202 Resp: 1581265  
 Ion Ratio Lower Upper  
 202 100  
 101 10.1 0.0 30.8  
 203 17.8 0.0 37.6





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.427 min Scan# 3102  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01

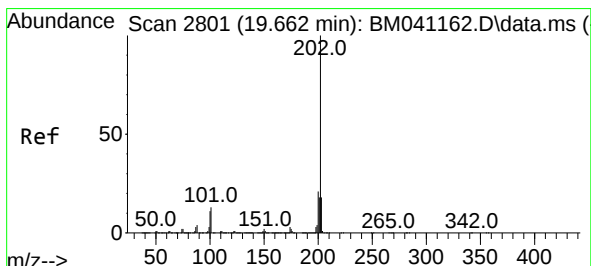
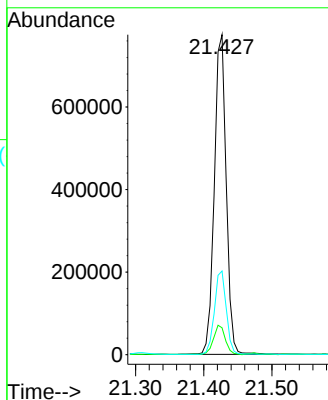
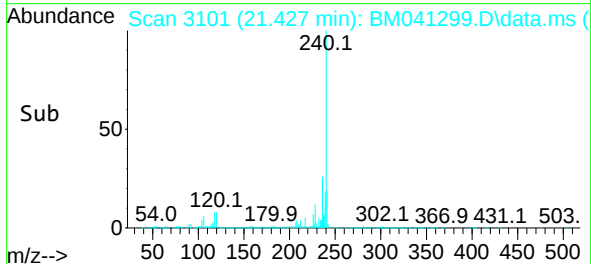
Instrument :  
BNA\_M  
ClientSampleId :  
BUILDING-A-1-(0-5)DL



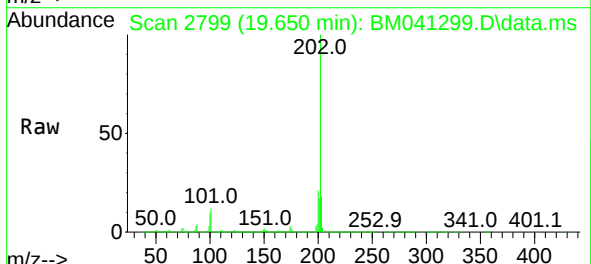
Tgt Ion:240 Resp: 939772  
Ion Ratio Lower Upper  
240 100  
120 8.4 8.3 12.5  
236 26.2 20.6 30.8

Manual Integrations  
APPROVED

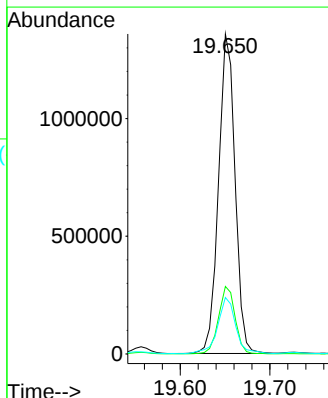
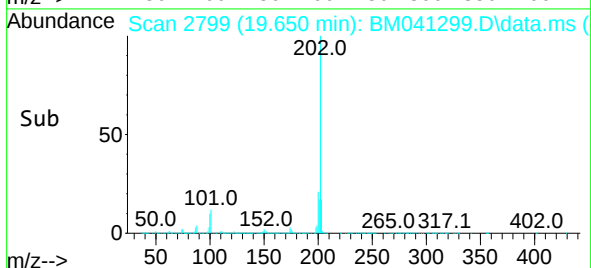
Reviewed By :Yogesh Patel 08/07/2023  
Supervised By :mohammad ahmed 08/07/2023

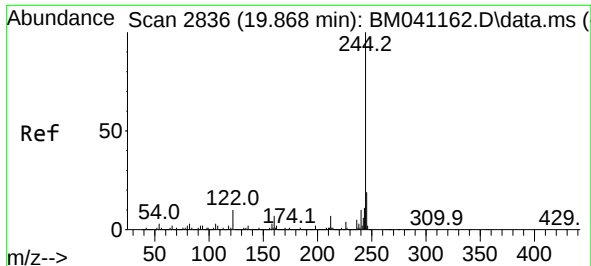


#78  
Pyrene  
Concen: 26.450 ng  
RT: 19.650 min Scan# 2799  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01



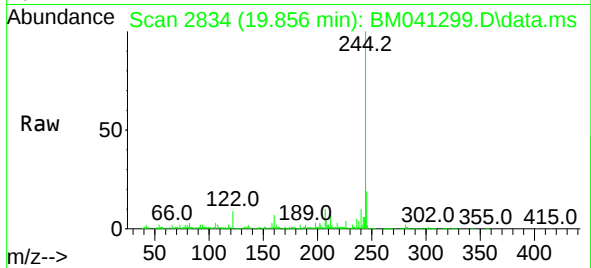
Tgt Ion:202 Resp: 1738294  
Ion Ratio Lower Upper  
202 100  
200 21.1 16.9 25.3  
203 17.6 14.1 21.1





#79  
 Terphenyl-d14  
 Concen: 4.487 ng  
 RT: 19.856 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: BM041299.D  
 Acq: 04 Aug 2023 18:01

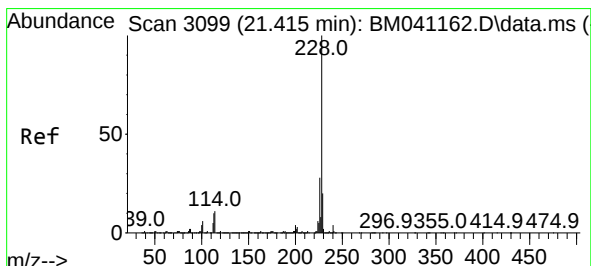
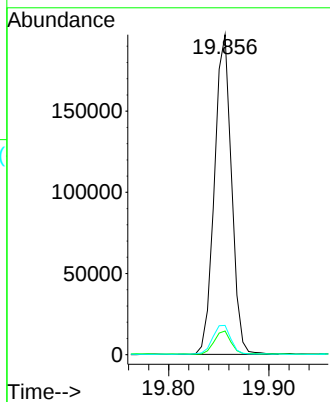
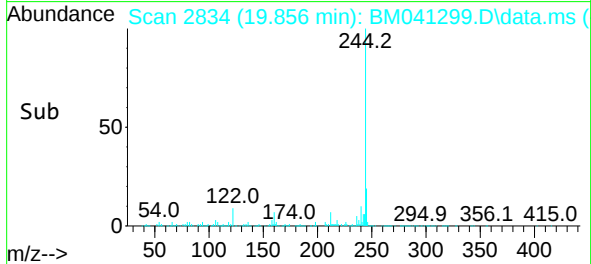
Instrument :  
 BNA\_M  
 ClientSampleId :  
 BUILDING-A-1-(0-5)DL



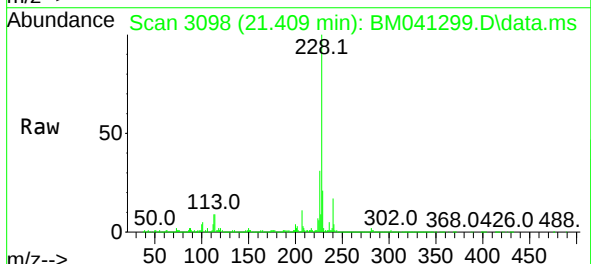
Tgt Ion:244 Resp: 233210  
 Ion Ratio Lower Upper  
 244 100  
 212 7.4 5.4 8.2  
 122 9.1 7.8 11.6

Manual Integrations  
 APPROVED

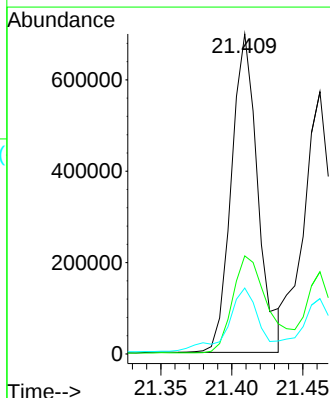
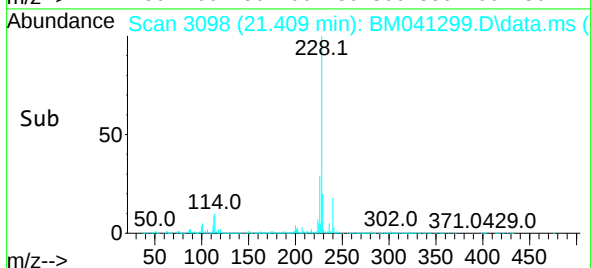
Reviewed By :Yogesh Patel 08/07/2023  
 Supervised By :mohammad ahmed 08/07/2023

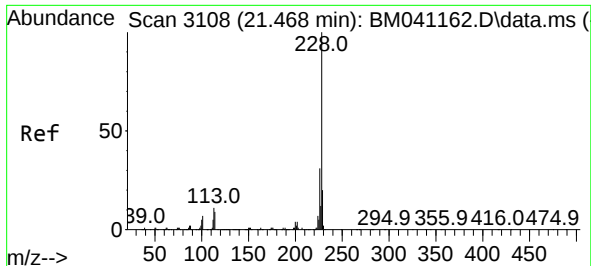


#81  
 Benzo(a)anthracene  
 Concen: 14.208 ng  
 RT: 21.409 min Scan# 3098  
 Delta R.T. -0.006 min  
 Lab File: BM041299.D  
 Acq: 04 Aug 2023 18:01



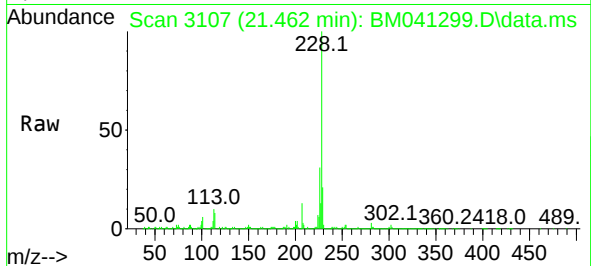
Tgt Ion:228 Resp: 905206  
 Ion Ratio Lower Upper  
 228 100  
 226 30.7 22.4 33.6  
 229 20.6 15.8 23.8





#83  
Chrysene  
Concen: 12.362 ng  
RT: 21.462 min Scan# 3108  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01

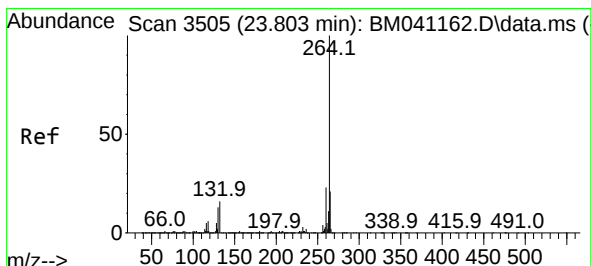
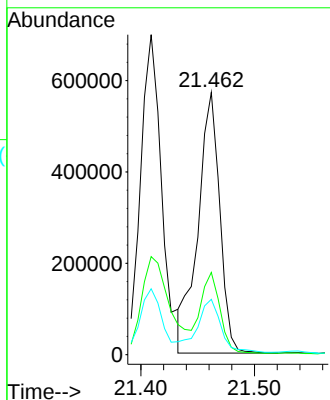
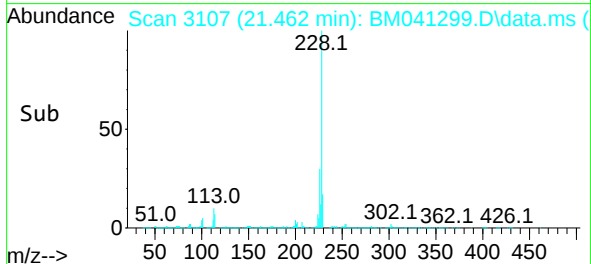
Instrument :  
BNA\_M  
ClientSampleId :  
BUILDING-A-1-(0-5)DL



Tgt Ion:228 Resp: 76176  
Ion Ratio Lower Upper  
228 100  
226 31.4 24.5 36.7  
229 21.1 15.8 23.8

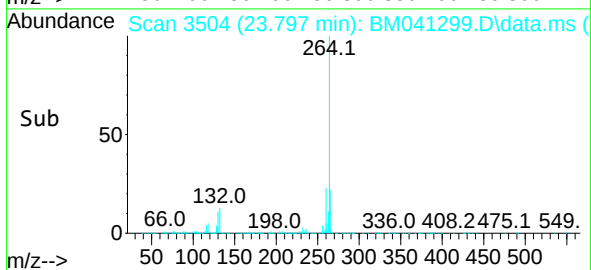
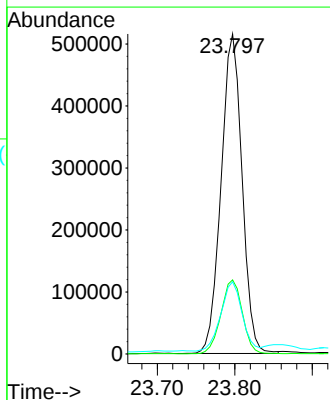
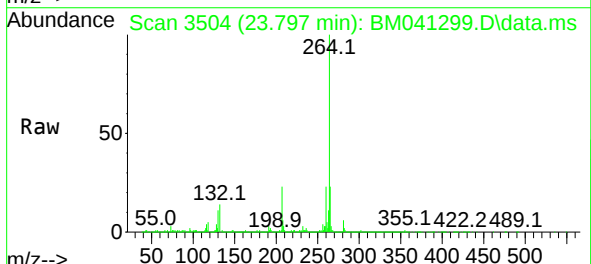
Manual Integrations  
APPROVED

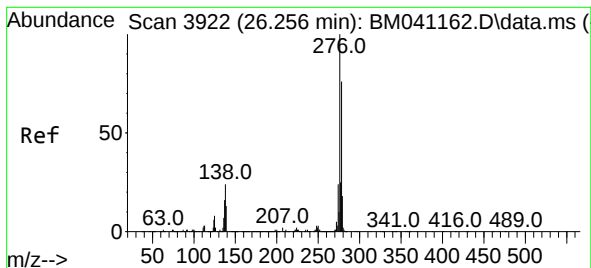
Reviewed By :Yogesh Patel 08/07/2023  
Supervised By :mohammad ahmed 08/07/2023



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.797 min Scan# 3504  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01

Tgt Ion:264 Resp: 969135  
Ion Ratio Lower Upper  
264 100  
260 23.2 18.5 27.7  
265 22.5 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.425 ng

RT: 26.238 min Scan# 3919

Delta R.T. -0.024 min

Lab File: BM041299.D

Acq: 04 Aug 2023 18:01

Instrument :

BNA\_M

ClientSampleId :

BUILDING-A-1-(0-5)DL

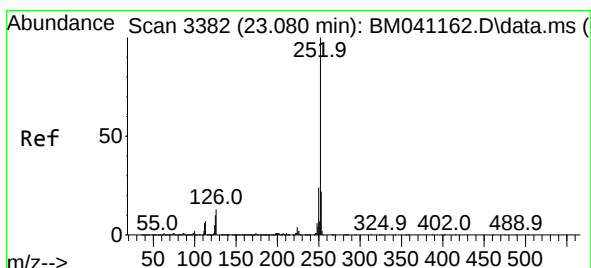
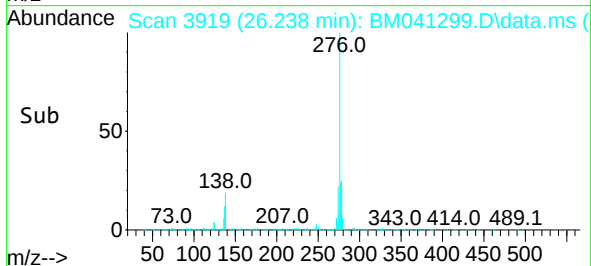
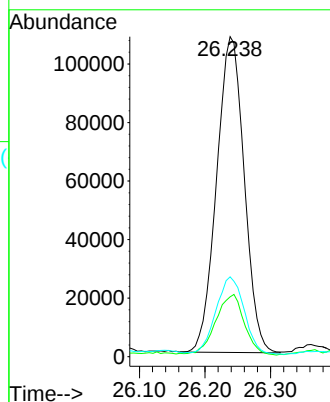
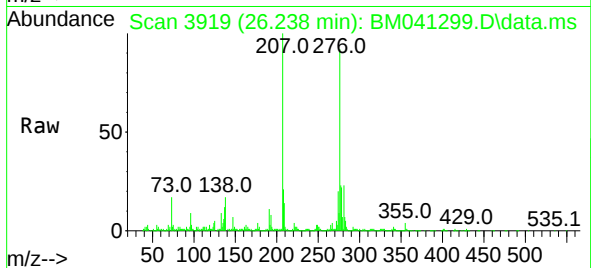
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 31531 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 19.9  | 20.0  | 30.0  |
| 277       | 25.2  | 20.1  | 30.1  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2023

Supervised By :mohammad ahmed 08/07/2023



#88

Benzo(b)fluoranthene

Concen: 14.163 ng

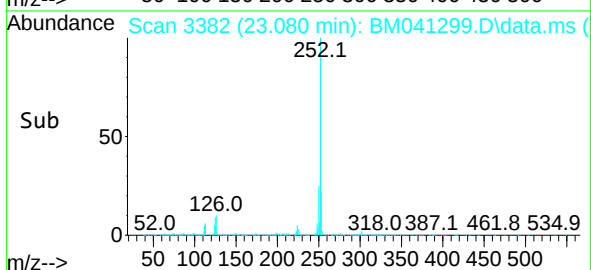
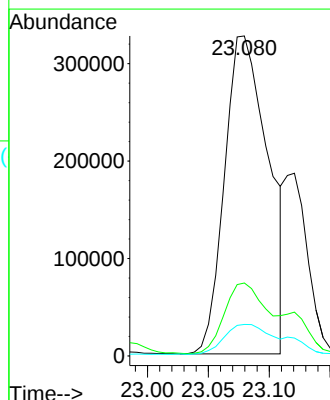
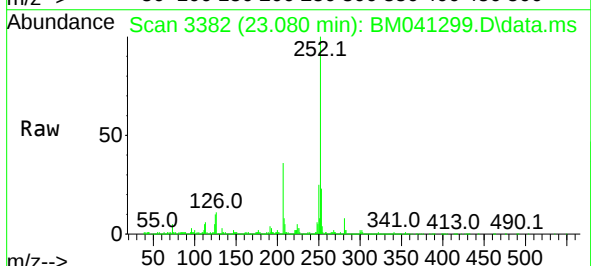
RT: 23.080 min Scan# 3382

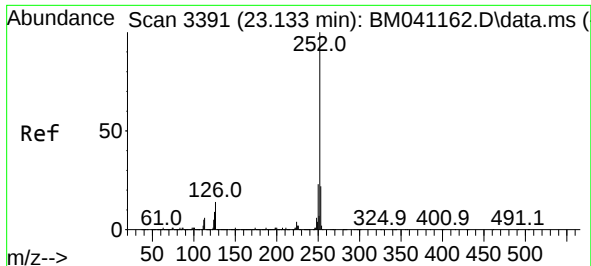
Delta R.T. -0.006 min

Lab File: BM041299.D

Acq: 04 Aug 2023 18:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 815420 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.8  | 17.7  | 26.5   |
| 125       | 9.9   | 8.2   | 12.4   |





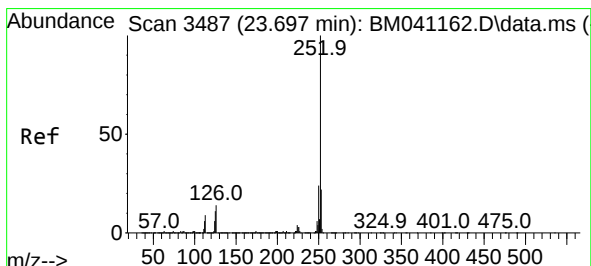
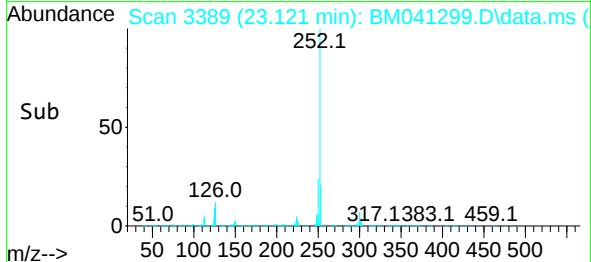
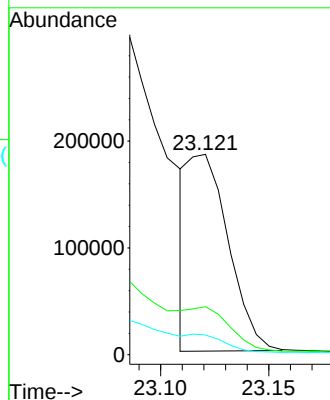
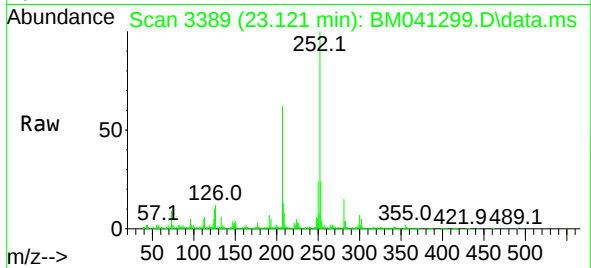
#89  
Benzo(k)fluoranthene  
Concen: 4.028 ng m  
RT: 23.121 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01

Instrument :  
BNA\_M  
ClientSampleId :  
BUILDING-A-1-(0-5)DL

Tgt Ion:252 Resp: 237244  
Ion Ratio Lower Upper  
252 100  
253 24.0 17.4 26.0  
125 9.8 7.6 11.4

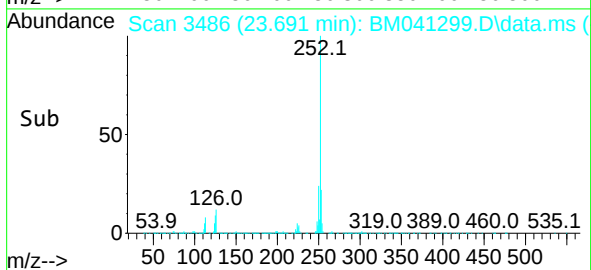
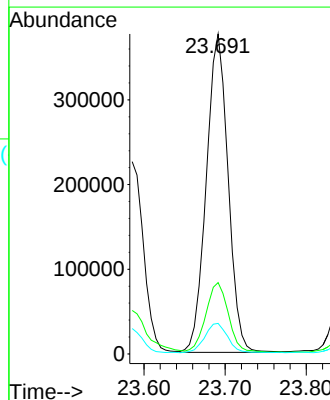
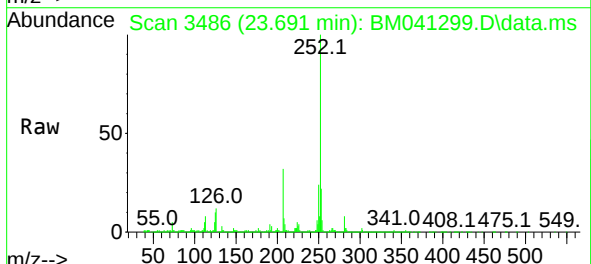
Manual Integrations  
APPROVED

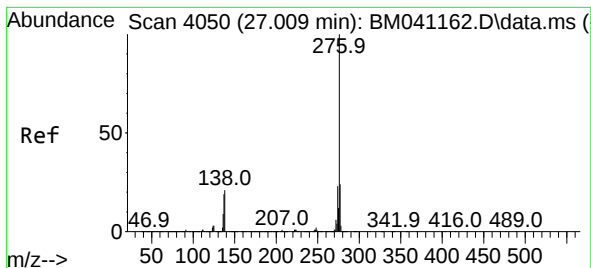
Reviewed By :Yogesh Patel 08/07/2023  
Supervised By :mohammad ahmed 08/07/2023



#90  
Benzo(a)pyrene  
Concen: 12.706 ng  
RT: 23.691 min Scan# 3486  
Delta R.T. -0.006 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01

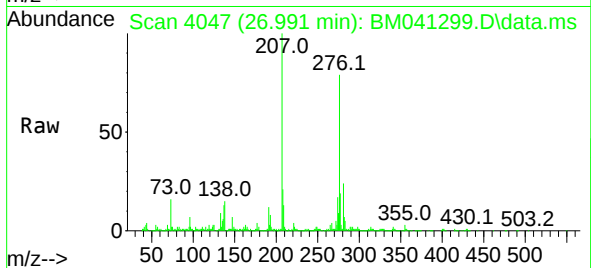
Tgt Ion:252 Resp: 702883  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.3 25.9  
125 9.5 9.0 13.4





#92  
Benzo(g,h,i)perylene  
Concen: 5.300 ng  
RT: 26.991 min Scan# 4050  
Delta R.T. -0.024 min  
Lab File: BM041299.D  
Acq: 04 Aug 2023 18:01

Instrument :  
BNA\_M  
ClientSampleId :  
BUILDING-A-1-(0-5)DL



Tgt Ion: 276 Resp: 30821  
Ion Ratio Lower Upper  
276 100  
277 23.9 19.1 28.7  
138 19.2 17.1 25.7

Manual Integrations  
APPROVED

Reviewed By : Yogesh Patel 08/07/2023  
Supervised By : mohammad ahmed 08/07/2023

