

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM110123\  
 Data File : BM042544.D  
 Acq On : 01 Nov 2023 17:48  
 Operator : MA/JU  
 Sample : 05164-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 ETGI-352

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/02/2023  
 Supervised By :mohammad ahmed 11/02/2023

Quant Time: Nov 01 23:43:53 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM103023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 31 02:55:18 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.922  | 152  | 83302    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.739 | 136  | 326668   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 14.569 | 164  | 204062   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 17.321 | 188  | 440773   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.503 | 240  | 441579   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 23.927 | 264  | 486675   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.457  | 112  | 415373   | 80.474 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.087  | 99   | 560338   | 79.156 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 9.122  | 82   | 383989   | 54.796 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 16.068 | 330  | 226158   | 84.888 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.192 | 172  | 774765   | 51.089 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.939 | 244  | 1329613  | 51.055 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene              | 17.362 | 178  | 90847    | 3.944  | ng    | 99       |
| 75) Fluoranthene              | 19.380 | 202  | 329381   | 12.173 | ng    | 98       |
| 78) Pyrene                    | 19.745 | 202  | 271301   | 8.947  | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.486 | 228  | 137890   | 4.908  | ng    | 99       |
| 83) Chrysene                  | 21.545 | 228  | 182239   | 6.386  | ng    | 96       |
| 84) Bis(2-ethylhexyl)phtha... | 21.368 | 149  | 82379    | 4.209  | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 26.444 | 276  | 115484   | 3.987  | ng    | # 95     |
| 88) Benzo(b)fluoranthene      | 23.180 | 252  | 272963   | 10.067 | ng    | # 97     |
| 89) Benzo(k)fluoranthene      | 23.221 | 252  | 100323m  | 3.321  | ng    |          |
| 90) Benzo(a)pyrene            | 23.809 | 252  | 134732   | 5.047  | ng    | 97       |
| 91) Dibenzo(a,h)anthracene    | 26.462 | 278  | 29876    | 5.159  | ng    | # 92     |
| 92) Benzo(g,h,i)perylene      | 27.244 | 276  | 117101   | 4.587  | ng    | 95       |
| -----                         |        |      |          |        |       |          |

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

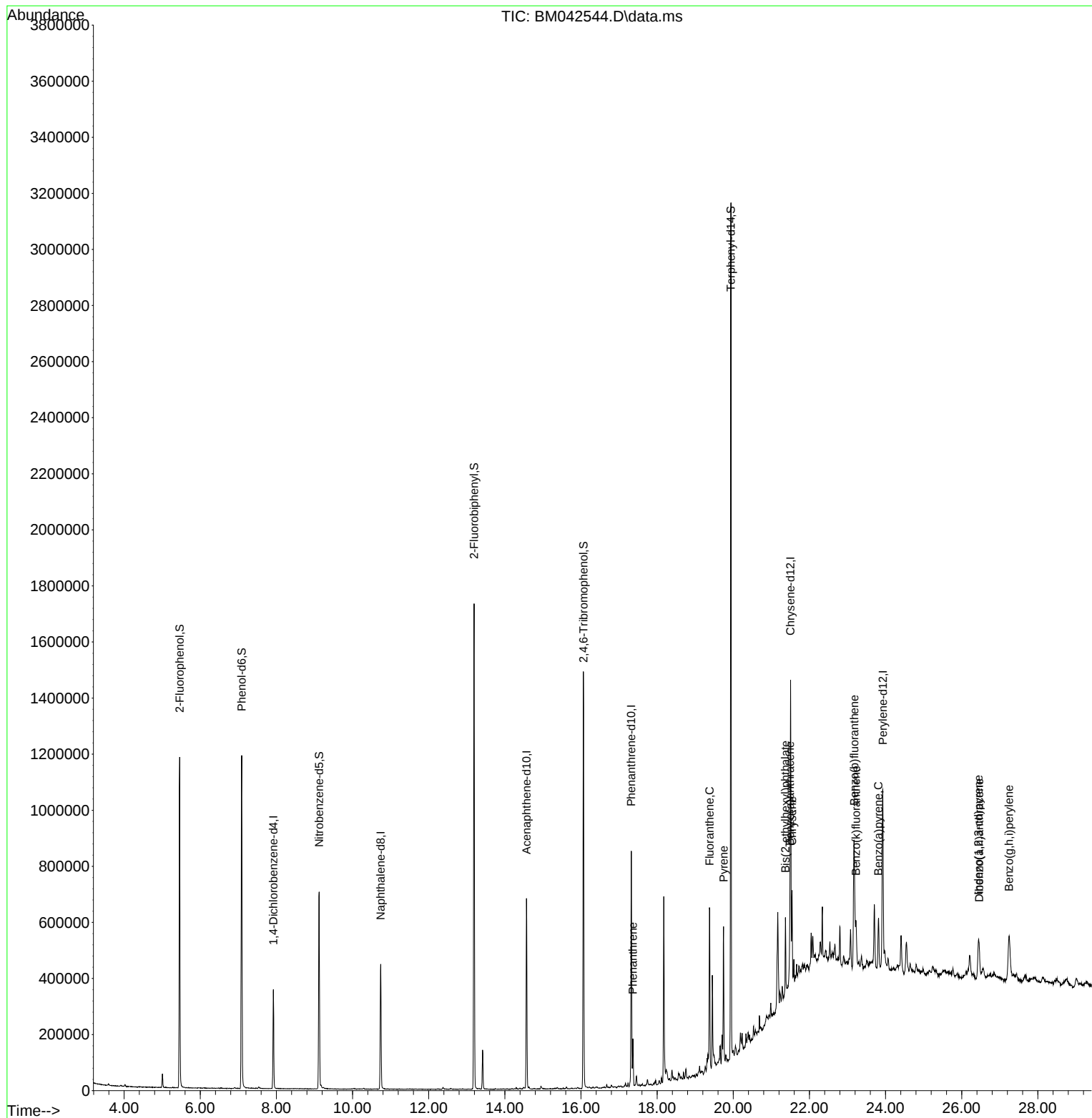
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM110123\  
Data File : BM042544.D  
Acq On : 01 Nov 2023 17:48  
Operator : MA/JU  
Sample : 05164-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

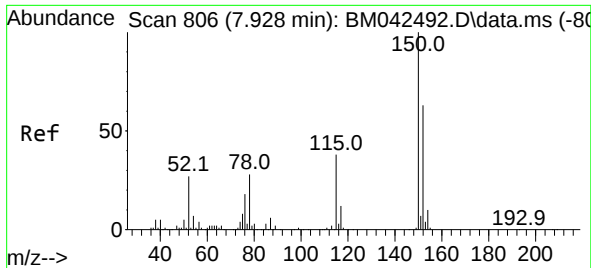
Instrument :  
BNA\_M  
ClientSampleId :  
ETGI-352

Quant Time: Nov 01 23:43:53 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM103023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 31 02:55:18 2023  
Response via : Initial Calibration

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Supervised By :mohammad ahmed 11/02/2023





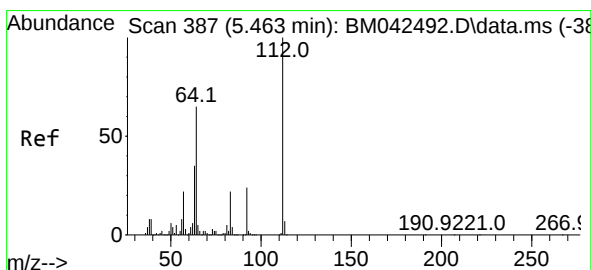
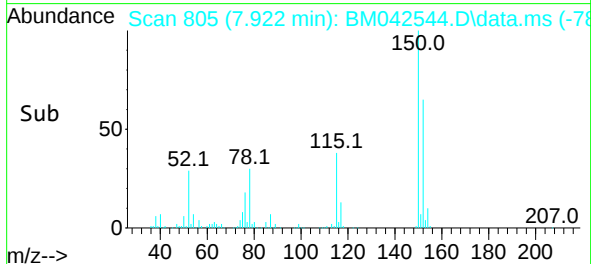
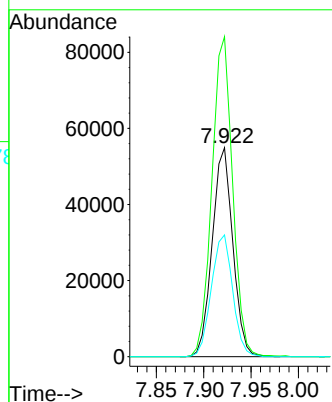
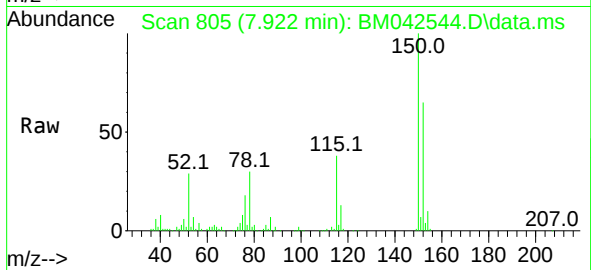
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.922 min Scan# 806  
Delta R.T. -0.006 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48

Instrument :  
BNA\_M  
ClientSampleId :  
ETGI-352

Tgt Ion:152 Resp: 83302  
Ion Ratio Lower Upper  
152 100  
150 153.1 127.4 191.0  
115 58.3 47.9 71.9

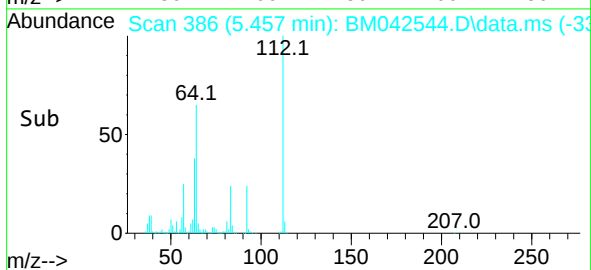
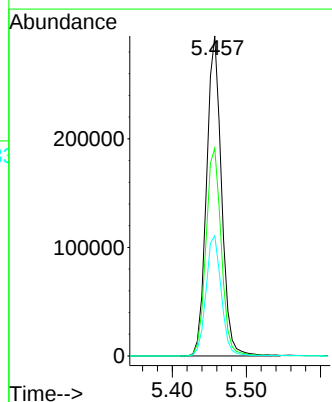
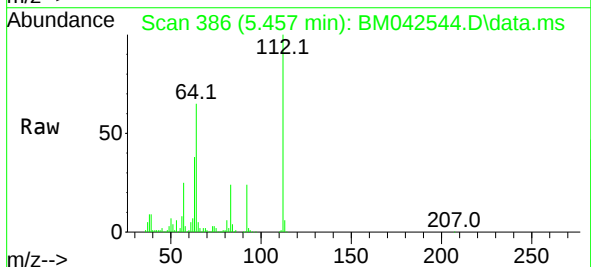
Manual Integrations  
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#5  
2-Fluorophenol  
Concen: 80.474 ng  
RT: 5.457 min Scan# 386  
Delta R.T. -0.006 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48

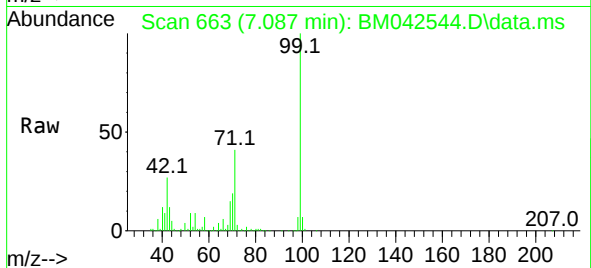
Tgt Ion:112 Resp: 415373  
Ion Ratio Lower Upper  
112 100  
64 64.9 52.1 78.1  
63 37.5 28.3 42.5





#7  
Phenol-d6  
Concen: 79.156 ng  
RT: 7.087 min Scan# 60  
Delta R.T. -0.012 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48

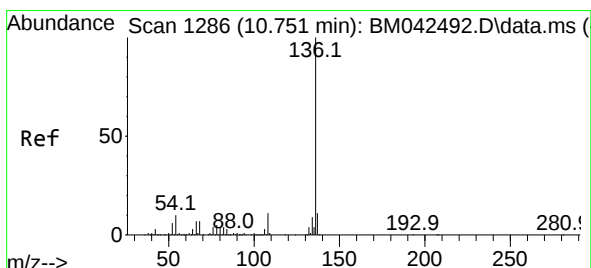
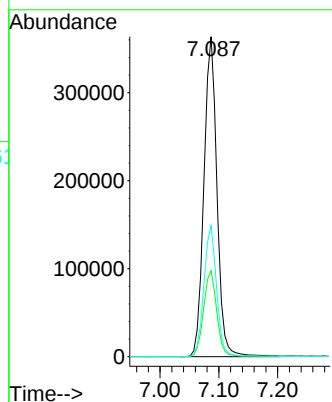
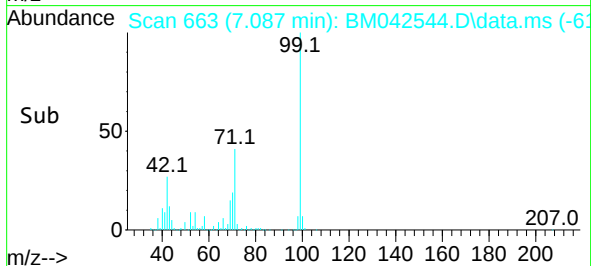
Instrument :  
BNA\_M  
ClientSampleId :  
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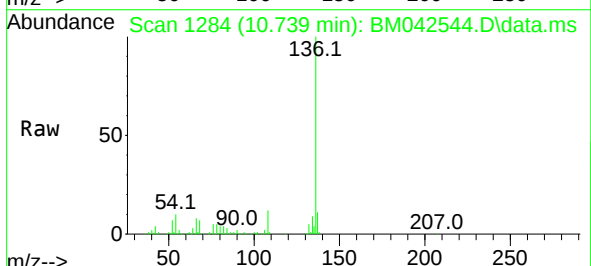
Tgt Ion: 99 Resp: 560338  
Ion Ratio Lower Upper  
99 100  
42 26.8 18.7 28.1  
71 40.9 29.1 43.7

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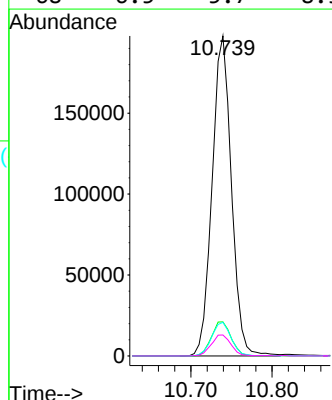
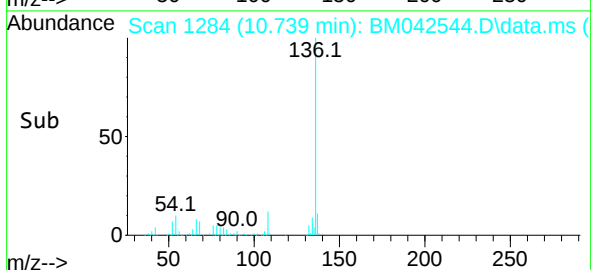
Reviewed By :Yogesh Patel 11/02/2023  
Supervised By :mohammad ahmed 11/02/2023

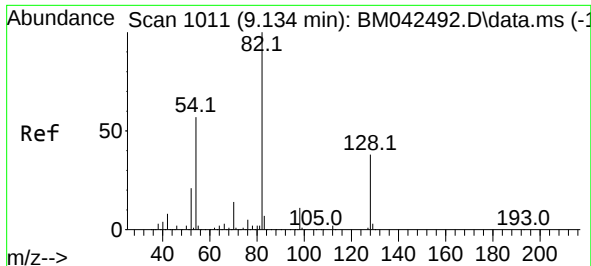


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.739 min Scan# 1284  
Delta R.T. -0.012 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48



Tgt Ion:136 Resp: 326668  
Ion Ratio Lower Upper  
136 100  
137 10.6 9.0 13.6  
54 10.5 8.0 12.0  
68 6.5 5.7 8.5





#23

Nitrobenzene-d5

Concen: 54.796 ng

RT: 9.122 min Scan# 1011

Delta R.T. -0.012 min

Lab File: BM042544.D

Acq: 01 Nov 2023 17:48

Instrument :

BNA\_M

ClientSampleId :

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Tgt Ion: 82 Resp: 383989

Ion Ratio Lower Upper

82 100

128 36.1 30.7 46.1

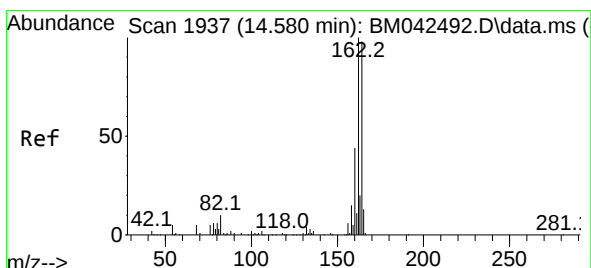
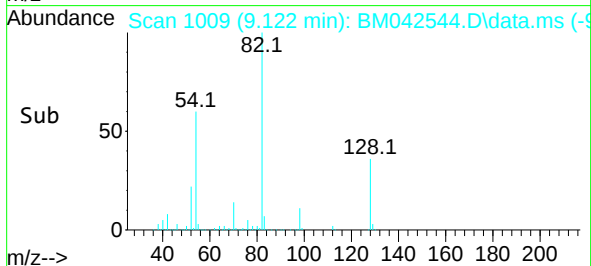
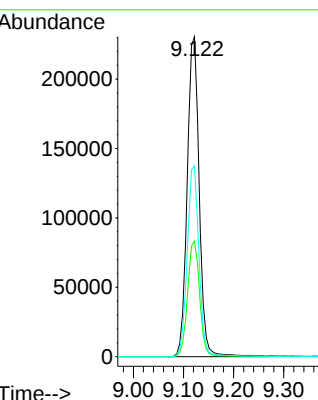
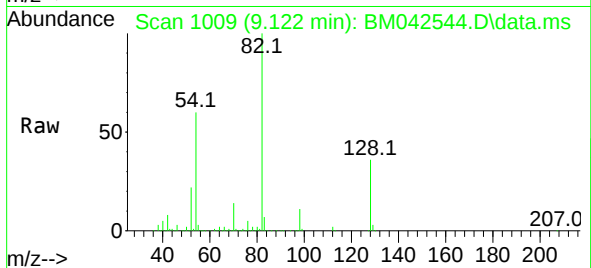
54 59.6 45.3 67.9

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.569 min Scan# 1935

Delta R.T. -0.011 min

Lab File: BM042544.D

Acq: 01 Nov 2023 17:48

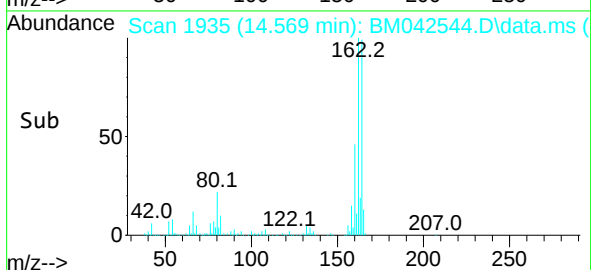
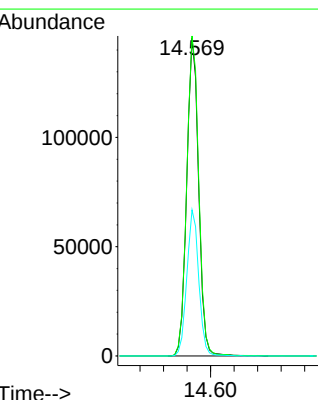
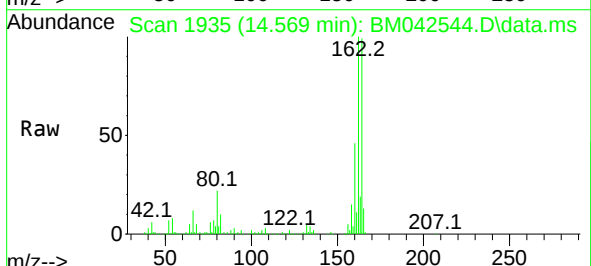
Tgt Ion:164 Resp: 204062

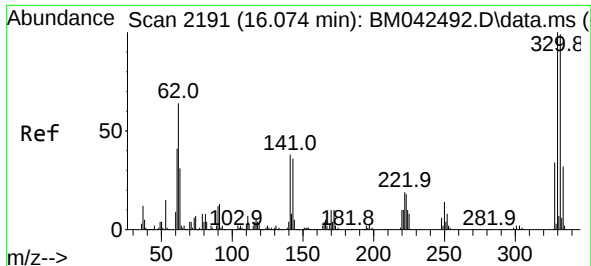
Ion Ratio Lower Upper

164 100

162 100.6 81.6 122.4

160 45.9 36.2 54.4





#42  
2,4,6-Tribromophenol  
Concen: 84.888 ng  
RT: 16.068 min Scan# 2191  
Delta R.T. -0.006 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48

Instrument :

BNA\_M

ClientSampleId :

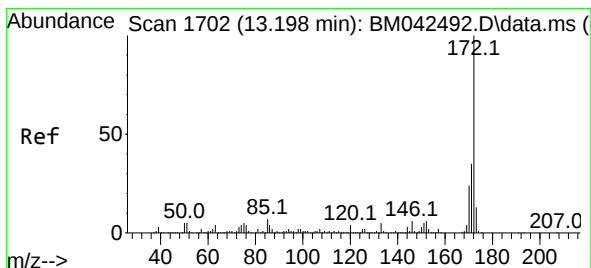
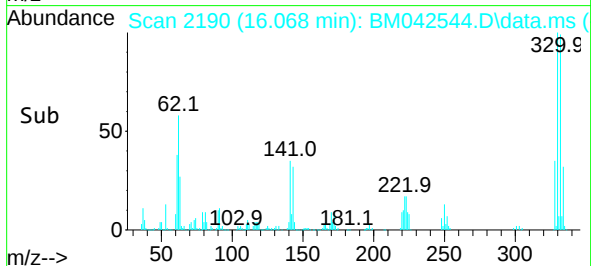
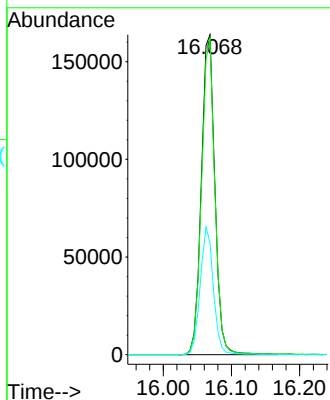
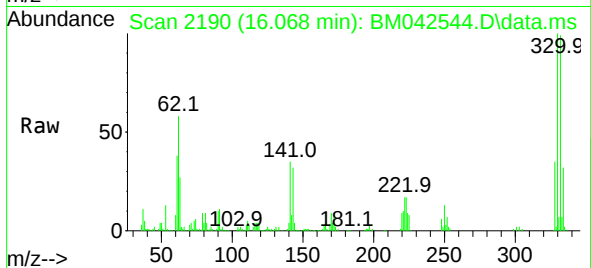
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Tgt Ion:330 Resp: 226158  
Ion Ratio Lower Upper  
330 100  
332 96.9 78.8 118.2  
141 39.1 31.1 46.7

Manual Integrations

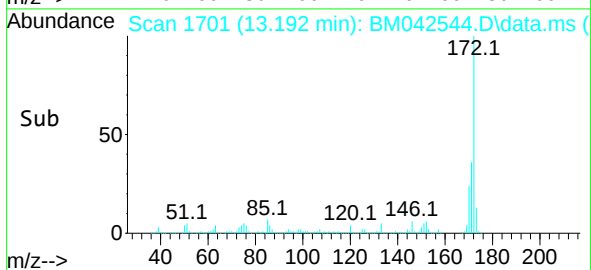
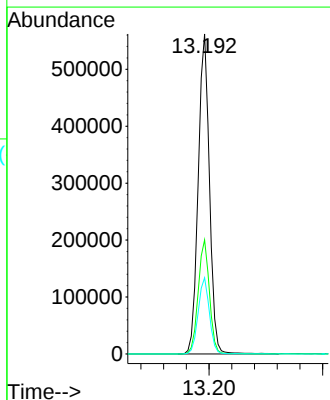
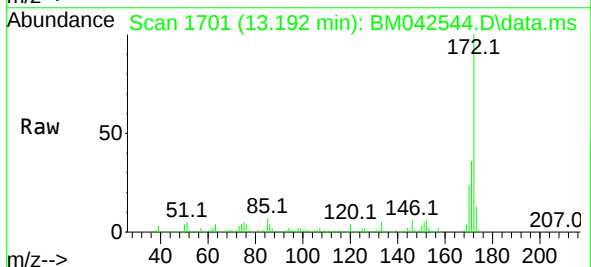
APPROVED

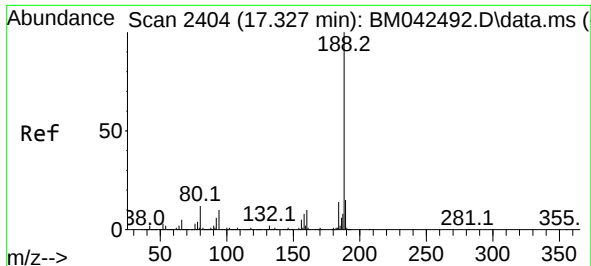
Reviewed By :Yogesh Patel 11/02/2023  
Supervised By :mohammad ahmed 11/02/2023



#45  
2-Fluorobiphenyl  
Concen: 51.089 ng  
RT: 13.192 min Scan# 1701  
Delta R.T. -0.006 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48

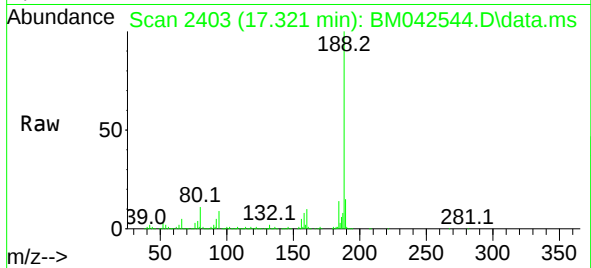
Tgt Ion:172 Resp: 774765  
Ion Ratio Lower Upper  
172 100  
171 35.6 28.2 42.2  
170 23.8 19.0 28.4





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.321 min Scan# 2403  
Delta R.T. -0.006 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48

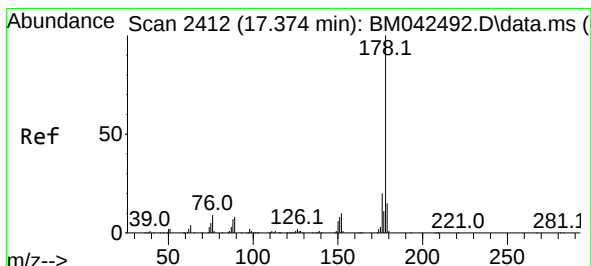
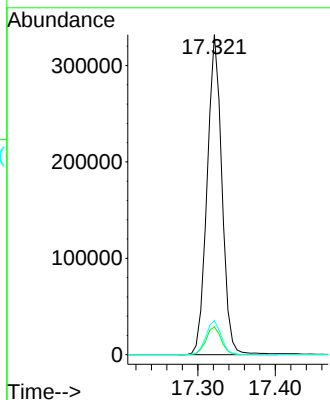
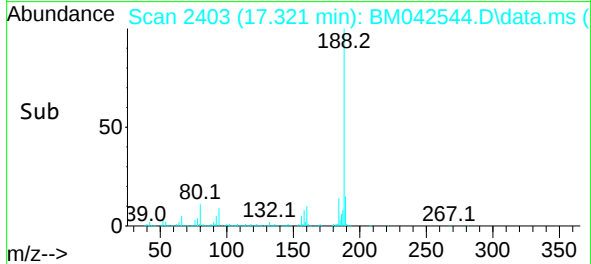
Instrument :  
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ClientSampleId :  
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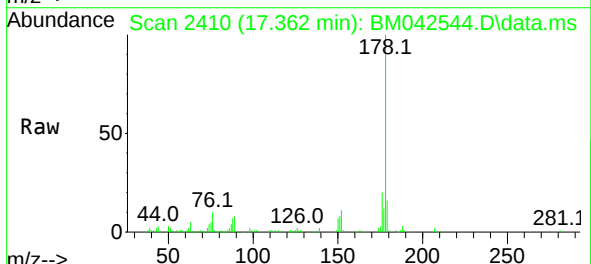
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80 10.7 9.4 14.2

Manual Integrations  
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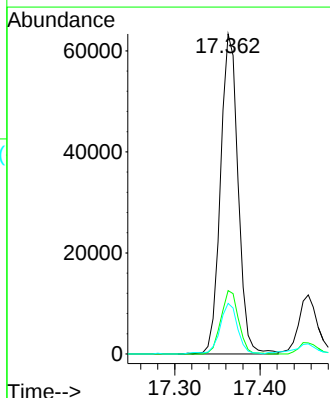
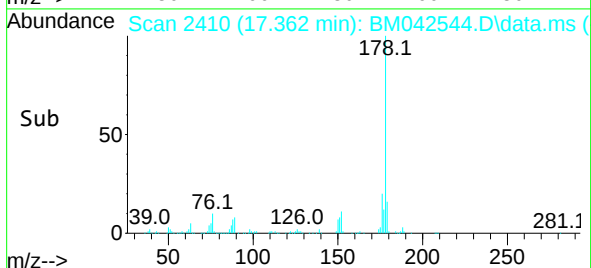
Reviewed By :Yogesh Patel 11/02/2023  
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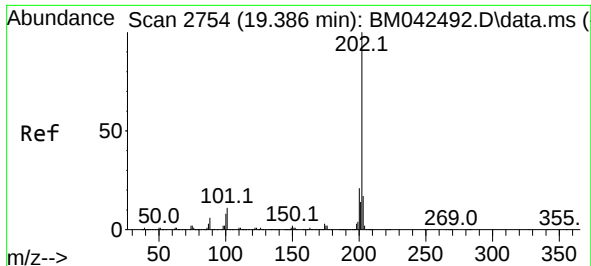


#71  
Phenanthrene  
Concen: 3.944 ng  
RT: 17.362 min Scan# 2410  
Delta R.T. -0.012 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48



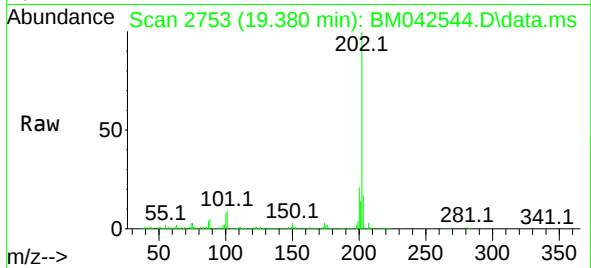
Tgt Ion:178 Resp: 90847  
Ion Ratio Lower Upper  
178 100  
176 19.8 15.8 23.8  
179 15.8 12.2 18.4





#75  
Fluoranthene  
Concen: 12.173 ng  
RT: 19.380 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48

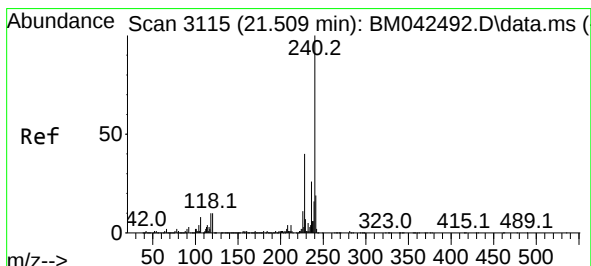
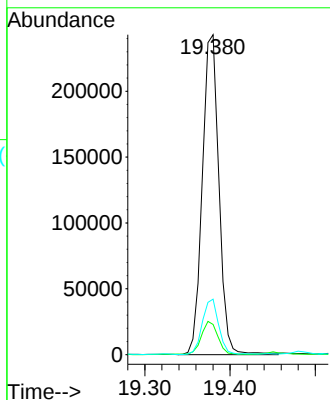
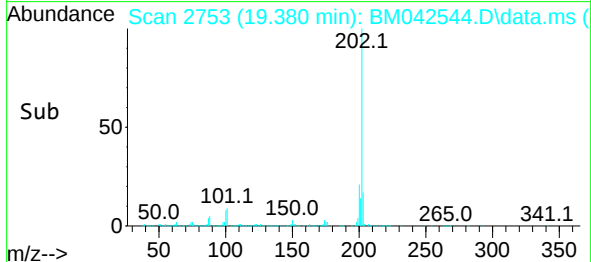
Instrument :  
BNA\_M  
ClientSampleId :  
ETGI-352



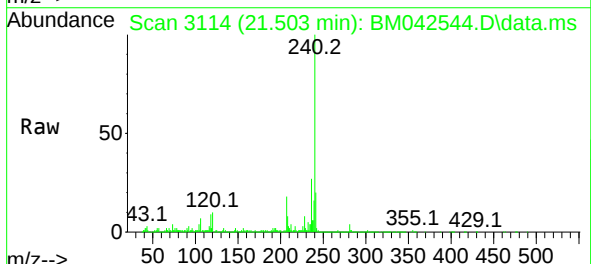
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101 9.5 0.0 30.5  
203 17.4 0.0 37.0

Manual Integrations  
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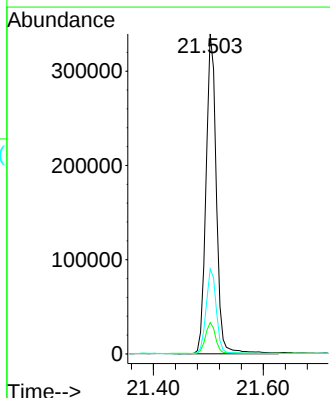
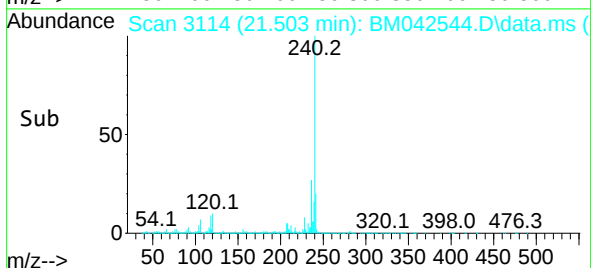
Reviewed By :Yogesh Patel 11/02/2023  
Supervised By :mohammad ahmed 11/02/2023

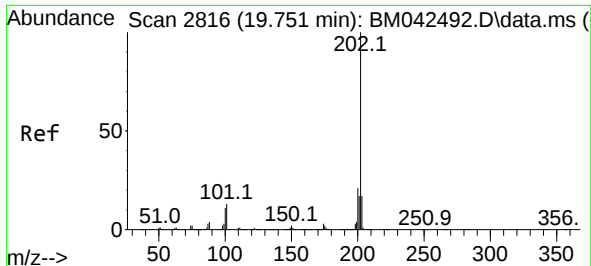


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.503 min Scan# 3114  
Delta R.T. -0.006 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48



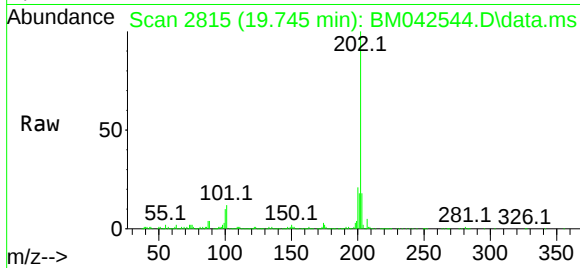
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Ion Ratio Lower Upper  
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120 9.8 8.3 12.5  
236 26.6 20.8 31.2





#78  
Pyrene  
Concen: 8.947 ng  
RT: 19.745 min Scan# 2816  
Delta R.T. -0.006 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48

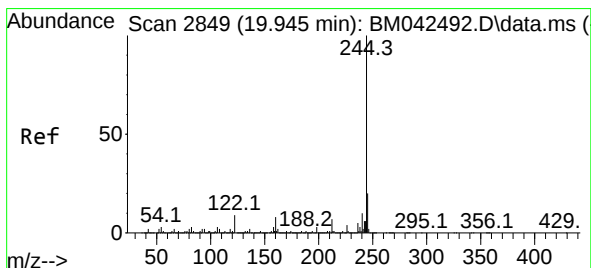
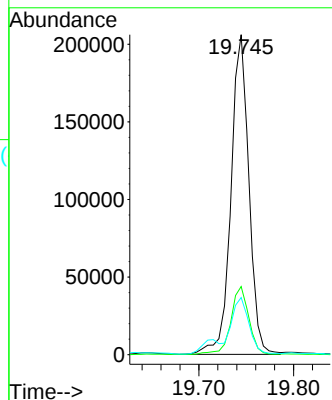
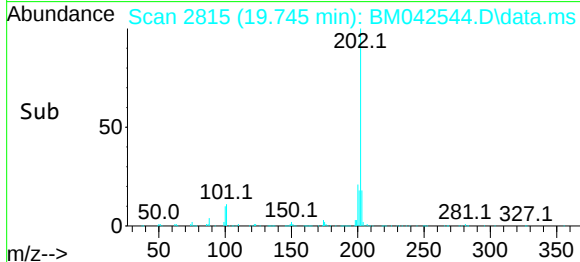
Instrument :  
BNA\_M  
ClientSampleId :  
ETGI-352



Tgt Ion:202 Resp: 27130  
Ion Ratio Lower Upper  
202 100  
200 21.3 16.9 25.3  
203 17.9 13.7 20.5

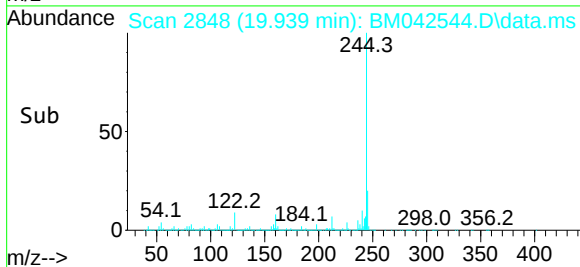
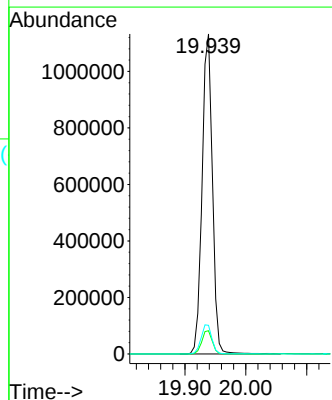
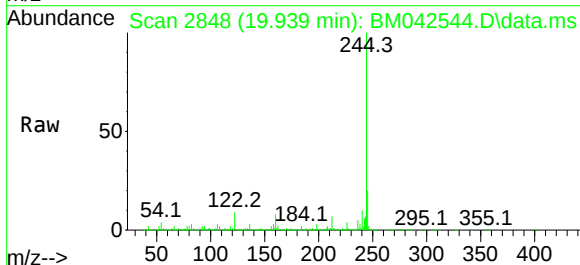
Manual Integrations  
APPROVED

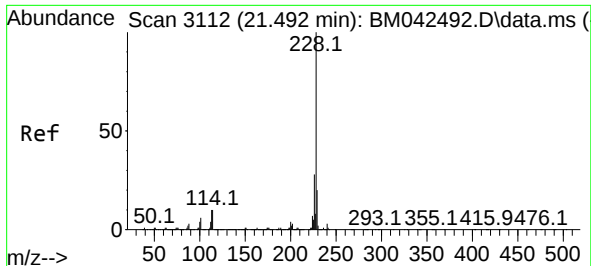
Reviewed By :Yogesh Patel 11/02/2023  
Supervised By :mohammad ahmed 11/02/2023



#79  
Terphenyl-d14  
Concen: 51.055 ng  
RT: 19.939 min Scan# 2848  
Delta R.T. -0.006 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48

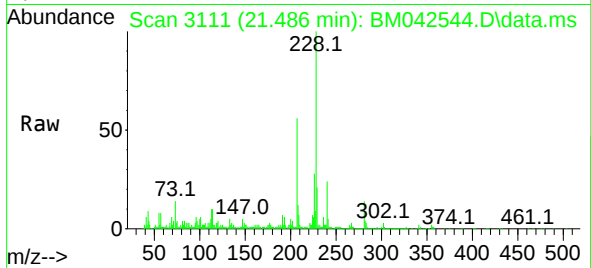
Tgt Ion:244 Resp: 1329613  
Ion Ratio Lower Upper  
244 100  
212 7.3 5.4 8.2  
122 8.9 7.2 10.8





#81  
Benzo(a)anthracene  
Concen: 4.908 ng  
RT: 21.486 min Scan# 3111  
Delta R.T. -0.006 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48

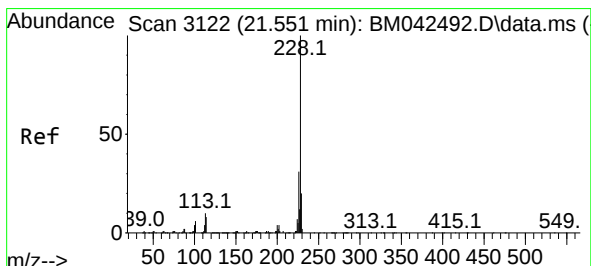
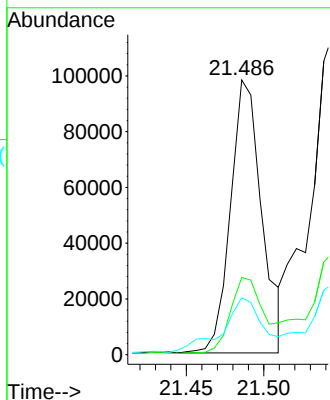
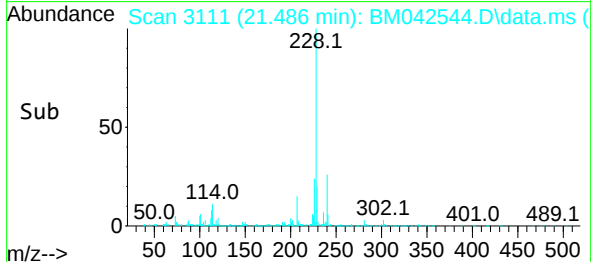
Instrument :  
BNA\_M  
ClientSampleId :  
ETGI-352



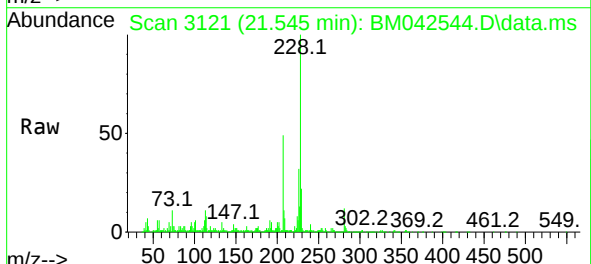
Tgt Ion:228 Resp: 137890  
Ion Ratio Lower Upper  
228 100  
226 28.1 22.3 33.5  
229 20.7 15.8 23.8

Manual Integrations  
APPROVED

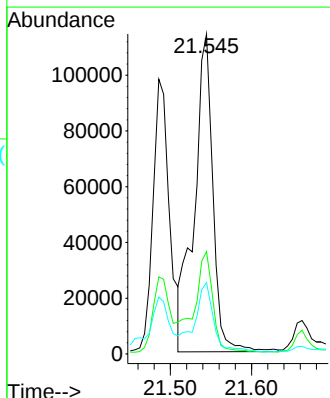
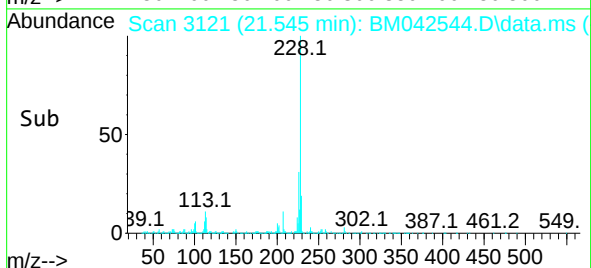
Reviewed By :Yogesh Patel 11/02/2023  
Supervised By :mohammad ahmed 11/02/2023

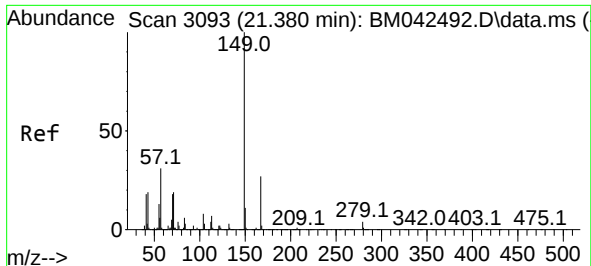


#83  
Chrysene  
Concen: 6.386 ng  
RT: 21.545 min Scan# 3121  
Delta R.T. -0.006 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48



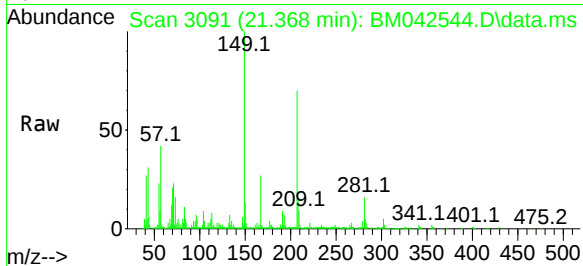
Tgt Ion:228 Resp: 182239  
Ion Ratio Lower Upper  
228 100  
226 32.0 24.4 36.6  
229 22.3 15.7 23.5





#84  
Bis(2-ethylhexyl)phthalate  
Concen: 4.209 ng  
RT: 21.368 min Scan# 3091  
Delta R.T. -0.012 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48

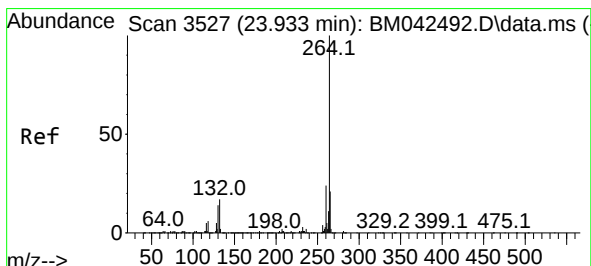
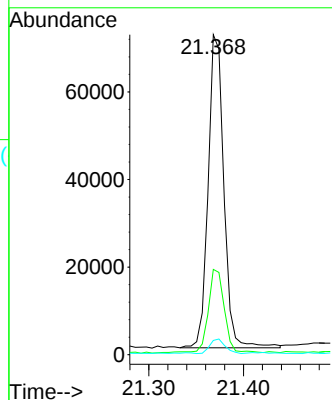
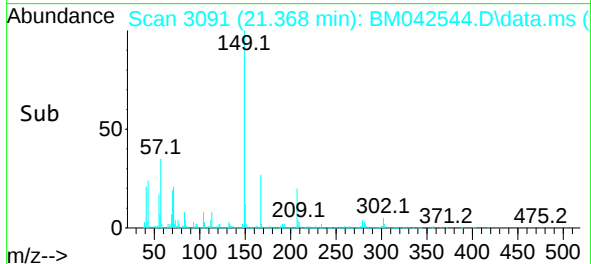
Instrument :  
BNA\_M  
ClientSampleId :  
ETGI-352



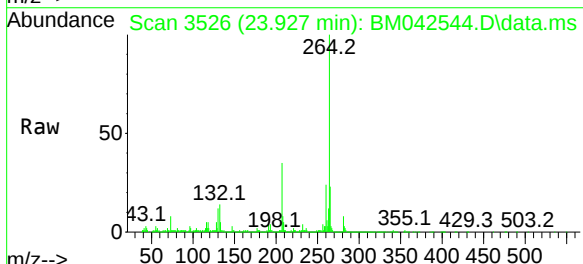
Tgt Ion:149 Resp: 82379  
Ion Ratio Lower Upper  
149 100  
167 26.7 21.4 32.0  
279 4.4 3.4 5.2

Manual Integrations  
APPROVED

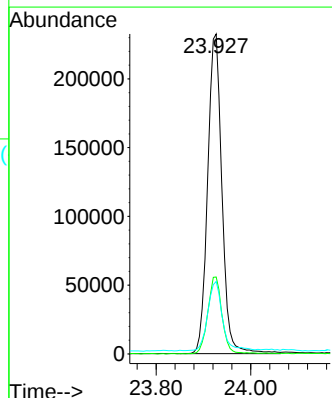
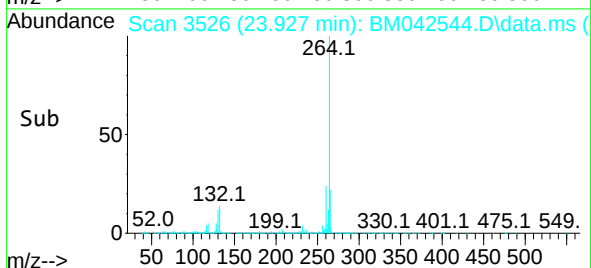
Reviewed By :Yogesh Patel 11/02/2023  
Supervised By :mohammad ahmed 11/02/2023

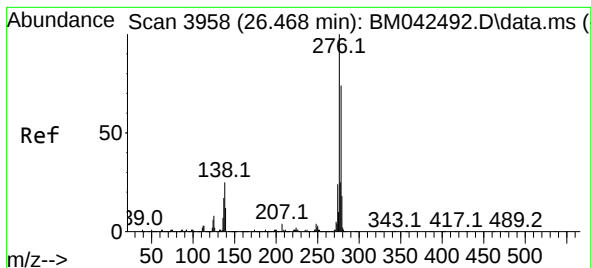


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.927 min Scan# 3526  
Delta R.T. -0.006 min  
Lab File: BM042544.D  
Acq: 01 Nov 2023 17:48



Tgt Ion:264 Resp: 486675  
Ion Ratio Lower Upper  
264 100  
260 24.0 19.0 28.4  
265 22.7 18.7 28.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.987 ng

RT: 26.444 min Scan# 3954

Delta R.T. -0.024 min

Lab File: BM042544.D

Acq: 01 Nov 2023 17:48

Instrument :

BNA\_M

ClientSampleId :

ETGI-352

Tgt Ion:276 Resp: 115484

Ion Ratio Lower Upper

276 100

138 20.6 20.6 31.0

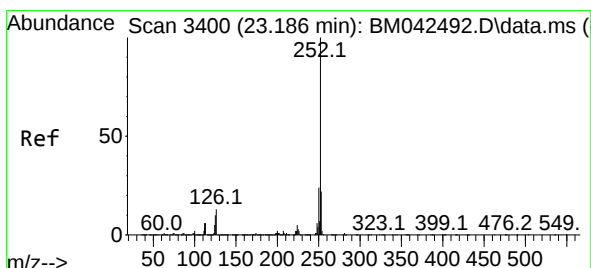
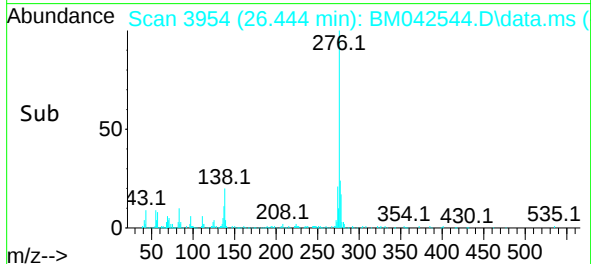
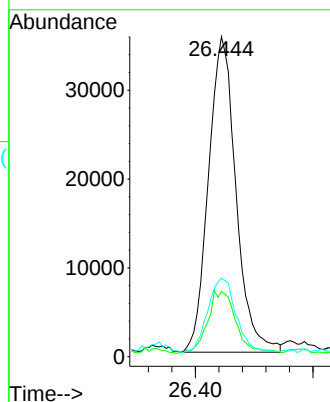
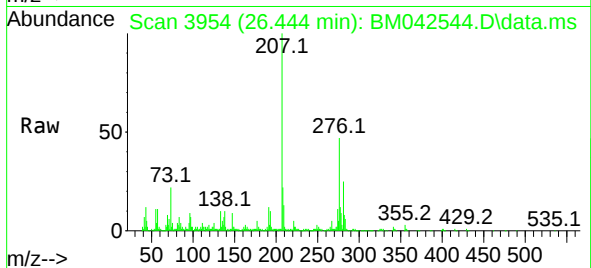
277 24.4 19.5 29.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#88

Benzo(b)fluoranthene

Concen: 10.067 ng

RT: 23.180 min Scan# 3399

Delta R.T. -0.006 min

Lab File: BM042544.D

Acq: 01 Nov 2023 17:48

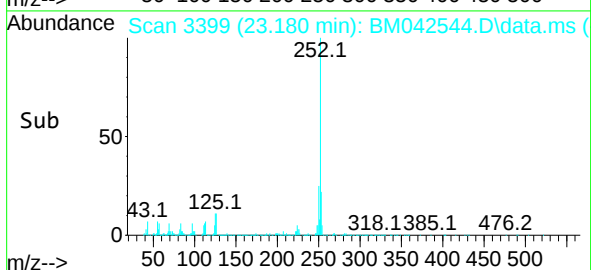
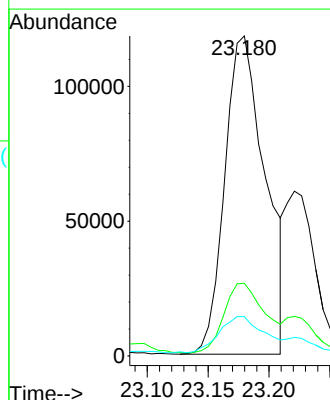
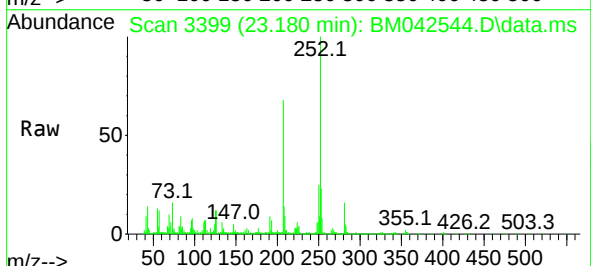
Tgt Ion:252 Resp: 272963

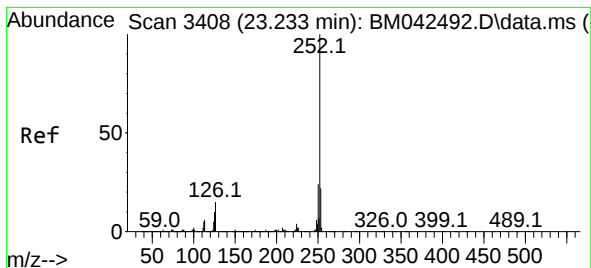
Ion Ratio Lower Upper

252 100

253 22.7 17.5 26.3

125 12.3 7.8 11.6





#89

Benzo(k)fluoranthene

Concen: 3.321 ng m

RT: 23.221 min Scan# 3408

Delta R.T. -0.012 min

Lab File: BM042544.D

Acq: 01 Nov 2023 17:48

Instrument :

BNA\_M

ClientSampleId :

ETGI-352

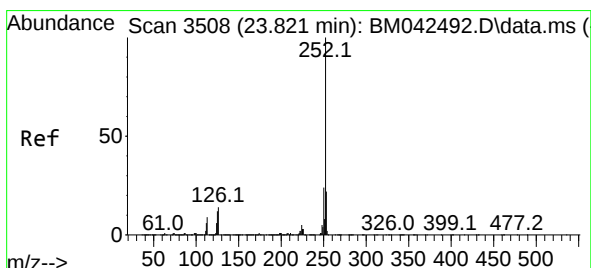
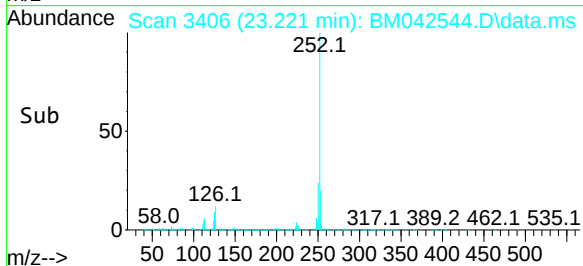
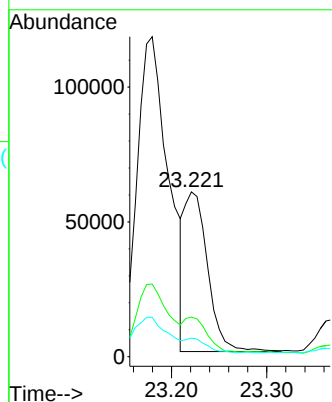
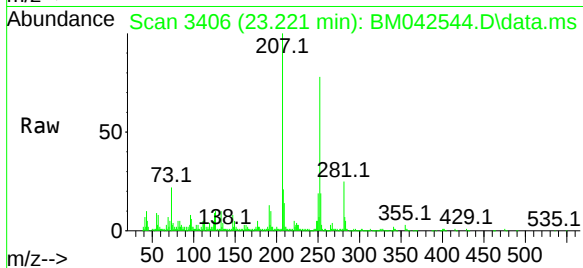
|             |                |
|-------------|----------------|
| Tgt Ion:252 | Resp: 10032    |
| Ion Ratio   | Lower Upper    |
| 252         | 100            |
| 253         | 24.0 17.6 26.4 |
| 125         | 11.3 8.2 12.4  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#90

Benzo(a)pyrene

Concen: 5.047 ng

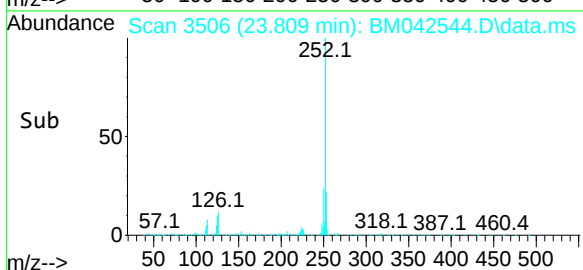
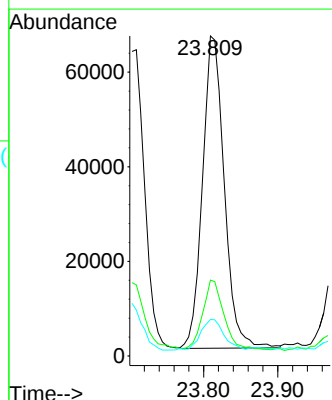
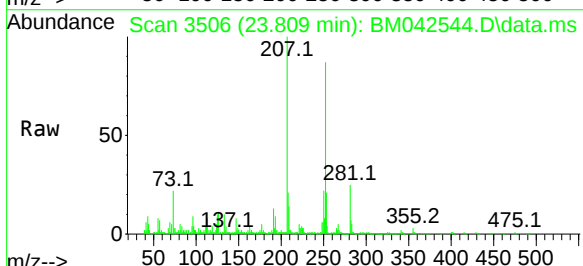
RT: 23.809 min Scan# 3506

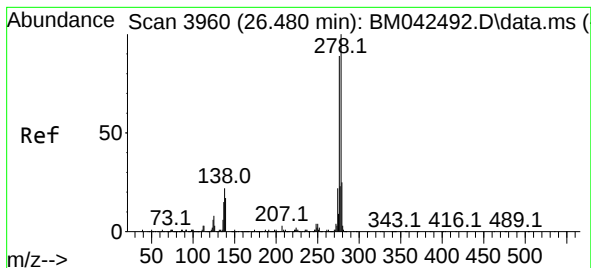
Delta R.T. -0.012 min

Lab File: BM042544.D

Acq: 01 Nov 2023 17:48

|             |                |
|-------------|----------------|
| Tgt Ion:252 | Resp: 134732   |
| Ion Ratio   | Lower Upper    |
| 252         | 100            |
| 253         | 23.7 17.5 26.3 |
| 125         | 11.4 9.4 14.2  |





#91

Dibenzo(a,h)anthracene

Concen: 5.159 ng

RT: 26.462 min Scan# 3957

Delta R.T. -0.018 min

Lab File: BM042544.D

Acq: 01 Nov 2023 17:48

Instrument :

BNA\_M

ClientSampleId :

ETGI-352

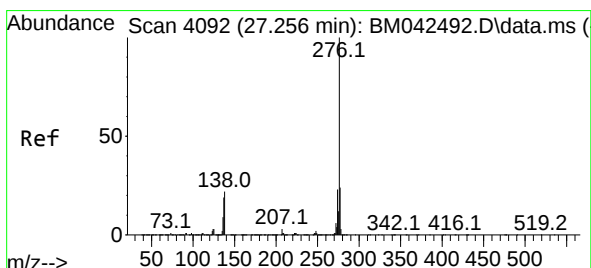
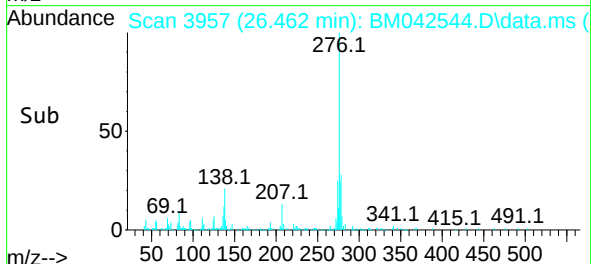
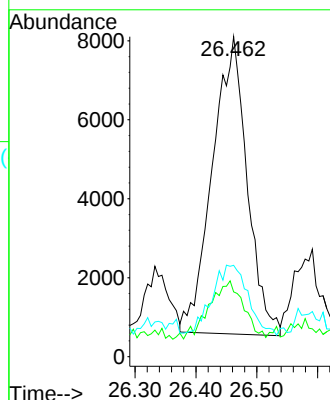
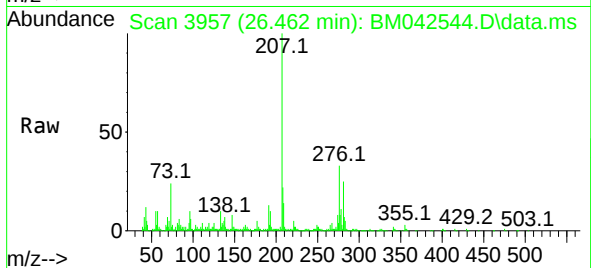
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 29870 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 20.2  | 13.4  | 20.2  |
| 279       | 28.6  | 19.7  | 29.5  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#92

Benzo(g,h,i)perylene

Concen: 4.587 ng

RT: 27.244 min Scan# 4090

Delta R.T. -0.012 min

Lab File: BM042544.D

Acq: 01 Nov 2023 17:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 117101 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 23.0  | 19.2  | 28.8   |
| 138       | 17.4  | 17.3  | 25.9   |

