

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG050224\  
 Data File : BG061094.D  
 Acq On : 2 May 2024 15:23  
 Operator : MA/JU  
 Sample : P2340-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 VNJ-207

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 05/03/2024  
 Supervised By :mohammad ahmed 05/06/2024

Quant Time: May 02 16:21:29 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG043024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 01 05:11:25 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.936  | 152  | 30578    | 20.000  | ng    | -0.03    |
| 21) Naphthalene-d8          | 10.733 | 136  | 114381   | 20.000  | ng    | -0.03    |
| 39) Acenaphthene-d10        | 14.563 | 164  | 84047    | 20.000  | ng    | -0.03    |
| 64) Phenanthrene-d10        | 17.313 | 188  | 183551   | 20.000  | ng    | -0.02    |
| 76) Chrysene-d12            | 21.573 | 240  | 182894   | 20.000  | ng    | -0.02    |
| 86) Perylene-d12            | 24.699 | 264  | 164578   | 20.000  | ng    | -0.03    |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.527  | 112  | 153819   | 102.305 | ng    | -0.02    |
| 7) Phenol-d6                | 7.113  | 99   | 211563   | 95.118  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 9.093  | 82   | 146590   | 63.531  | ng    | -0.03    |
| 42) 2,4,6-Tribromophenol    | 16.056 | 330  | 153122   | 91.147  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 13.189 | 172  | 413303   | 72.716  | ng    | -0.02    |
| 79) Terphenyl-d14           | 19.934 | 244  | 716436   | 65.149  | ng    | -0.02    |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 58) Fluorene                | 15.615 | 166  | 14724    | 2.437   | ng    | 97       |
| 71) Phenanthrene            | 17.354 | 178  | 136335   | 16.244  | ng    | 98       |
| 72) Anthracene              | 17.442 | 178  | 22739m   | 2.715   | ng    |          |
| 75) Fluoranthene            | 19.370 | 202  | 285448   | 24.826  | ng    | 100      |
| 78) Pyrene                  | 19.728 | 202  | 272310   | 23.419  | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.555 | 228  | 117801   | 9.843   | ng    | 97       |
| 83) Chrysene                | 21.614 | 228  | 164353   | 14.657  | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 23.717 | 252  | 124583m  | 13.547  | ng    |          |
| 89) Benzo(k)fluoranthene    | 23.764 | 252  | 57093m   | 6.453   | ng    |          |
| 90) Benzo(a)pyrene          | 24.546 | 252  | 54728    | 6.831   | ng    | # 92     |
| -----                       |        |      |          |         |       |          |

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

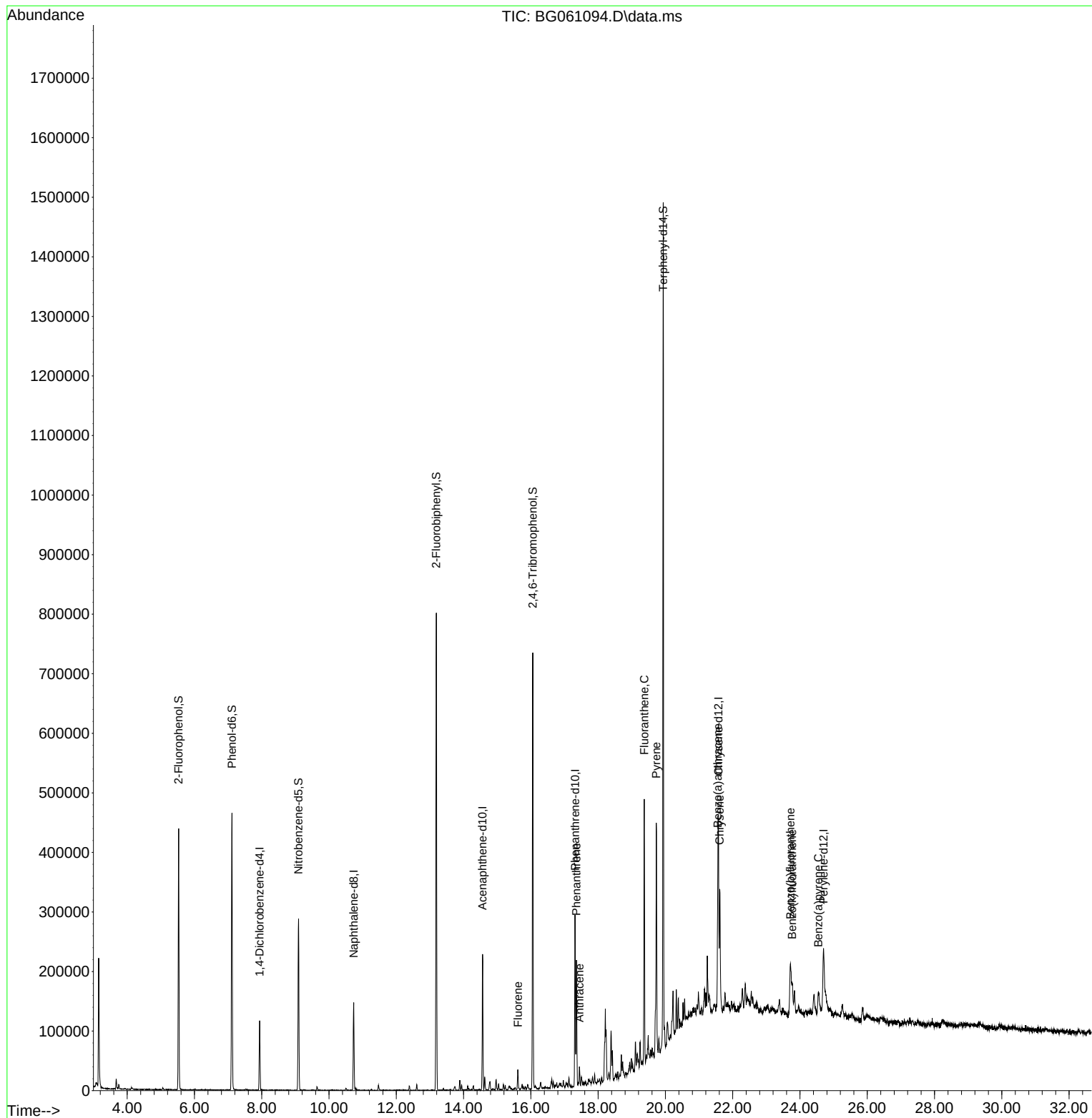
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG050224\  
Data File : BG061094.D  
Acq On : 2 May 2024 15:23  
Operator : MA/JU  
Sample : P2340-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

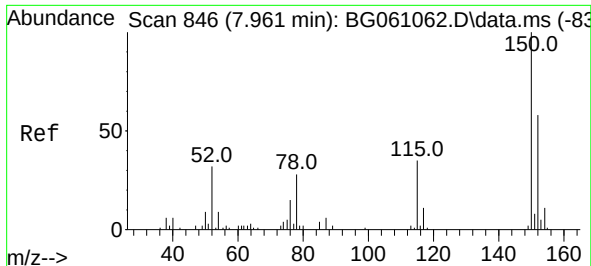
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-207

Quant Time: May 02 16:21:29 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG043024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 01 05:11:25 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 05/03/2024  
Supervised By :mohammad ahmed 05/06/2024





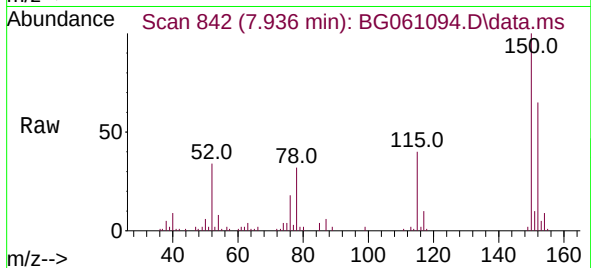
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.936 min Scan# 846  
Delta R.T. -0.025 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23

Instrument :

BNA\_G

ClientSampleId :

VNJ-207



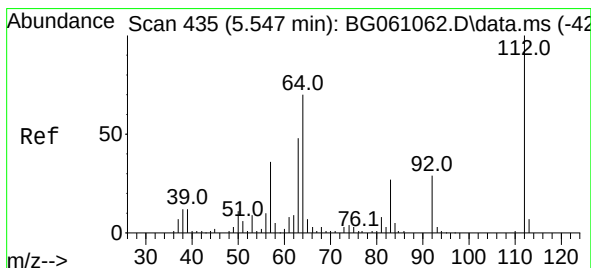
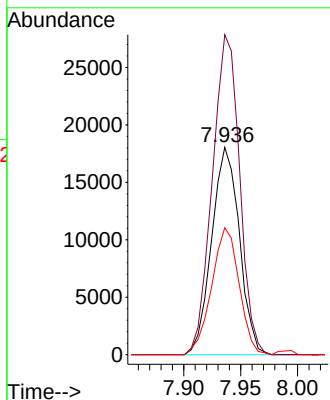
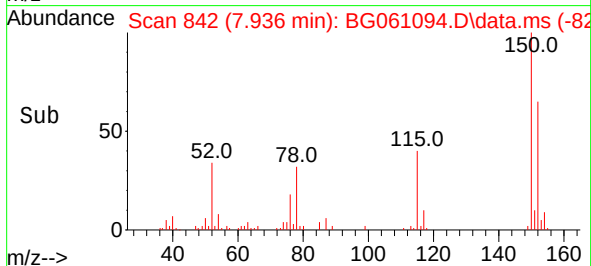
Tgt Ion:152 Resp: 30578  
Ion Ratio Lower Upper  
152 100  
150 154.3 138.3 207.5  
115 61.2 48.0 72.0

Manual Integrations

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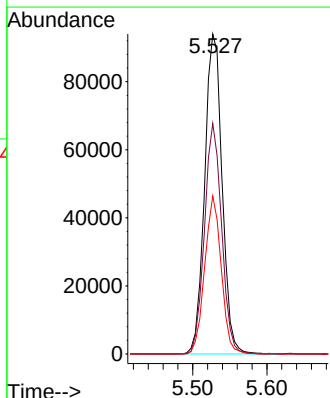
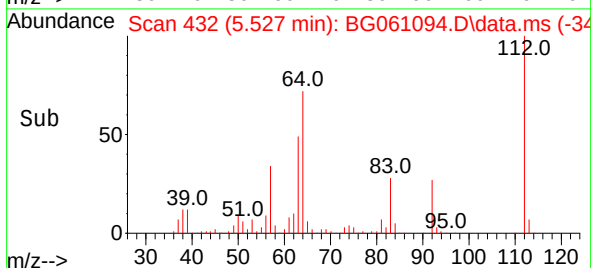
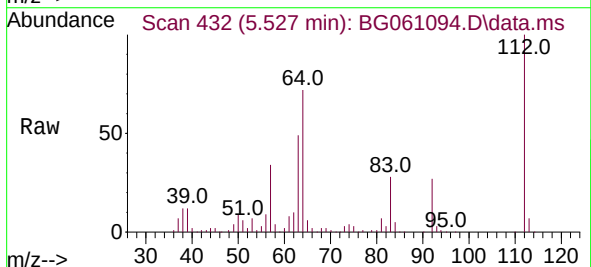
Reviewed By :Yogesh Patel 05/03/2024

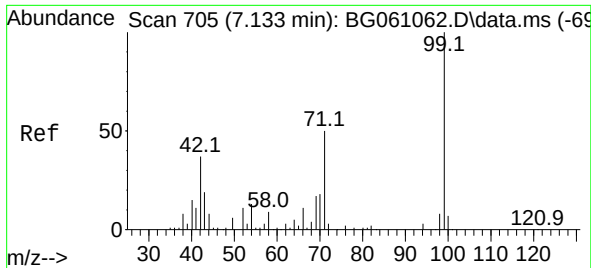
Supervised By :mohammad ahmed 05/06/2024



#5  
2-Fluorophenol  
Concen: 102.305 ng  
RT: 5.527 min Scan# 432  
Delta R.T. -0.020 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23

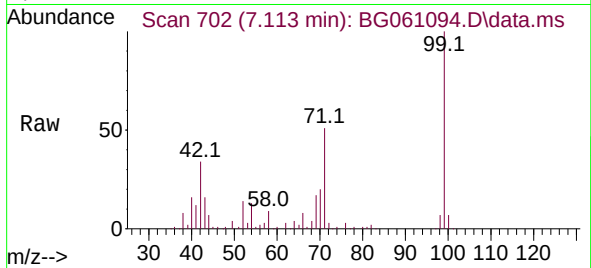
Tgt Ion:112 Resp: 153819  
Ion Ratio Lower Upper  
112 100  
64 72.0 55.7 83.5  
63 49.4 38.1 57.1





#7  
Phenol-d6  
Concen: 95.118 ng  
RT: 7.113 min Scan# 705  
Delta R.T. -0.020 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23

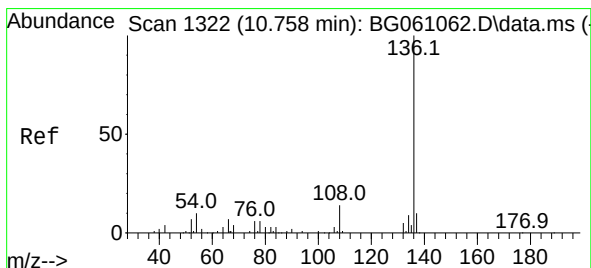
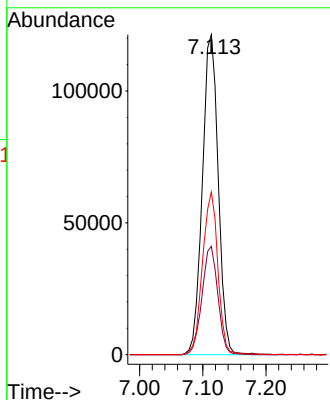
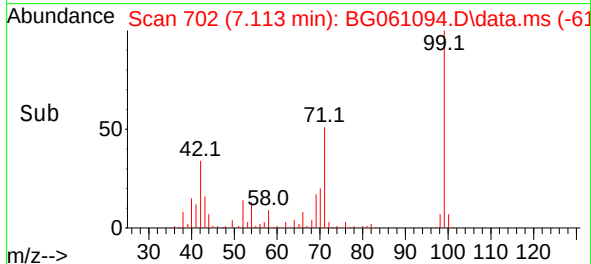
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-207



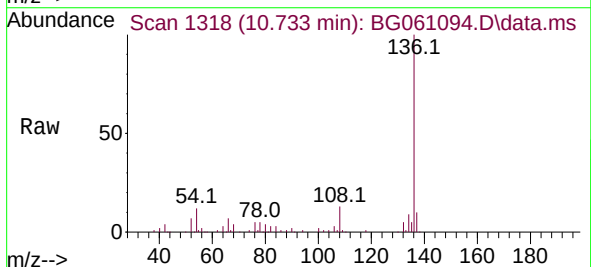
Tgt Ion: 99 Resp: 211563  
Ion Ratio Lower Upper  
99 100  
42 33.9 29.2 43.8  
71 50.8 39.7 59.5

Manual Integrations  
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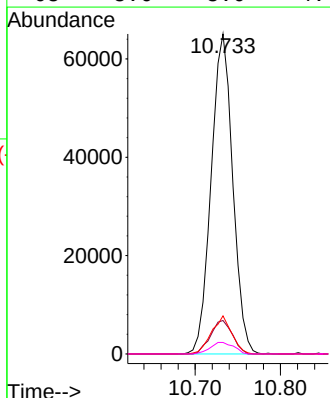
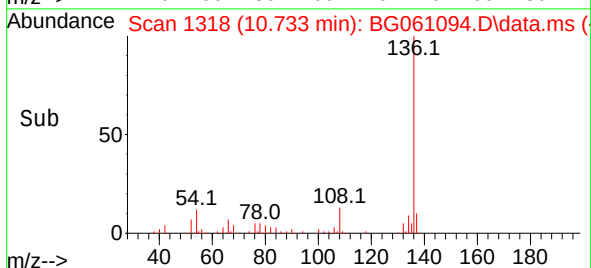
Reviewed By :Yogesh Patel 05/03/2024  
Supervised By :mohammad ahmed 05/06/2024

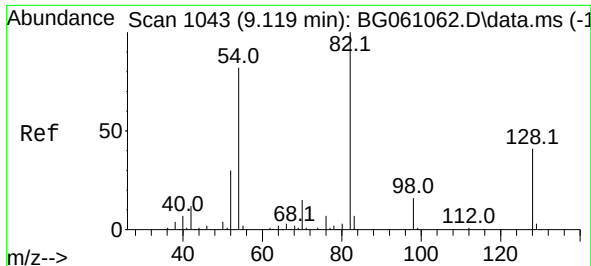


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.733 min Scan# 1318  
Delta R.T. -0.025 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23



Tgt Ion:136 Resp: 114381  
Ion Ratio Lower Upper  
136 100  
137 10.4 7.8 11.6  
54 11.9 8.1 12.1  
68 3.6 3.0 4.4





#23

Nitrobenzene-d5

Concen: 63.531 ng

RT: 9.093 min Scan# 1043

Delta R.T. -0.025 min

Lab File: BG061094.D

Acq: 2 May 2024 15:23

Instrument :

BNA\_G

ClientSampleId :

VNJ-207

Tgt Ion: 82 Resp: 146590

Ion Ratio Lower Upper

82 100

128 41.1 32.7 49.1

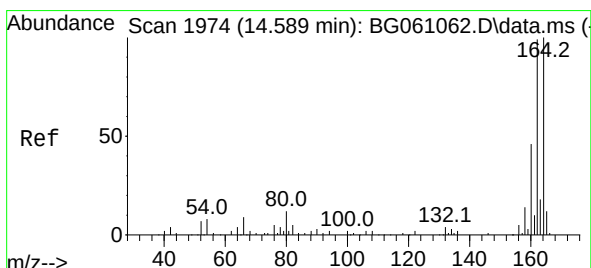
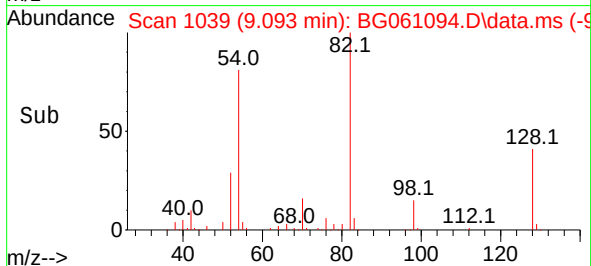
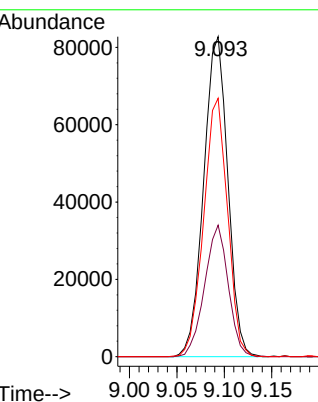
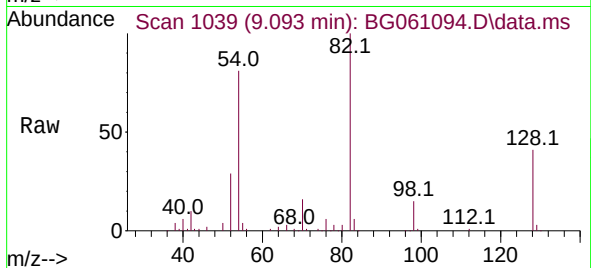
54 80.7 65.6 98.4

Manual Integrations

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Reviewed By :Yogesh Patel 05/03/2024

Supervised By :mohammad ahmed 05/06/2024



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.563 min Scan# 1970

Delta R.T. -0.025 min

Lab File: BG061094.D

Acq: 2 May 2024 15:23

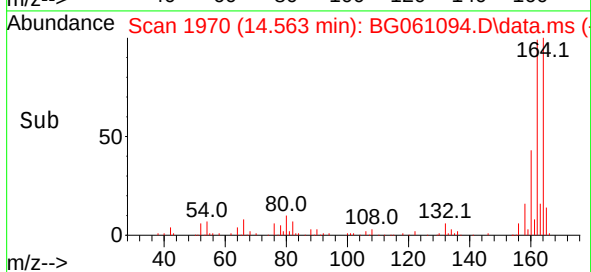
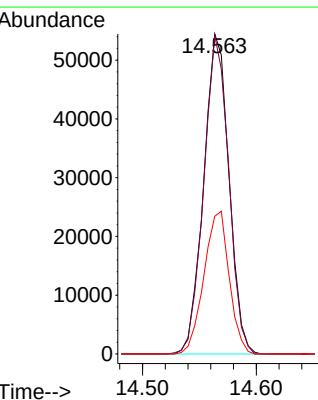
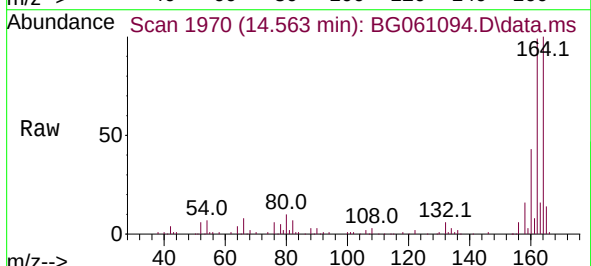
Tgt Ion:164 Resp: 84047

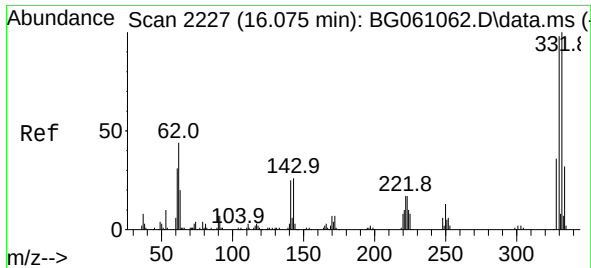
Ion Ratio Lower Upper

164 100

162 99.5 79.4 119.2

160 43.0 37.0 55.6





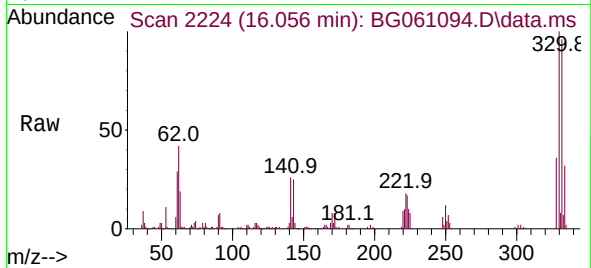
#42  
2,4,6-Tribromophenol  
Concen: 91.147 ng  
RT: 16.056 min Scan# 21  
Delta R.T. -0.020 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23

Instrument :

BNA\_G

ClientSampleId :

VNJ-207

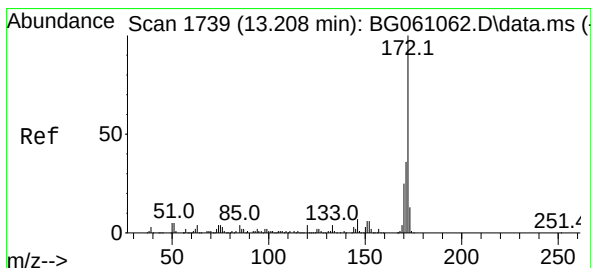
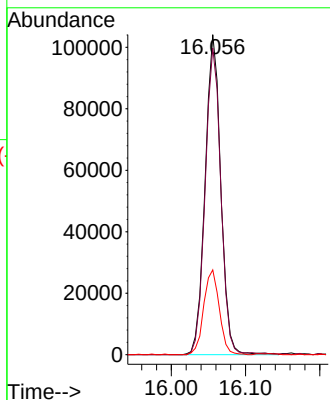
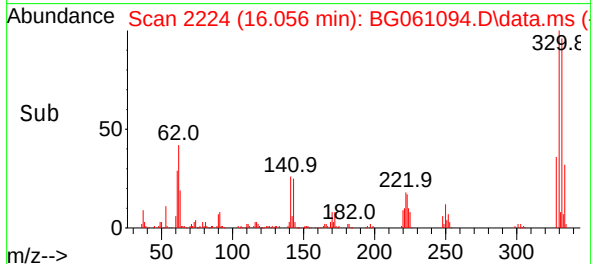


Tgt Ion:330 Resp: 15312  
Ion Ratio Lower Upper  
330 100  
332 96.4 78.6 117.8  
141 26.3 20.5 30.7

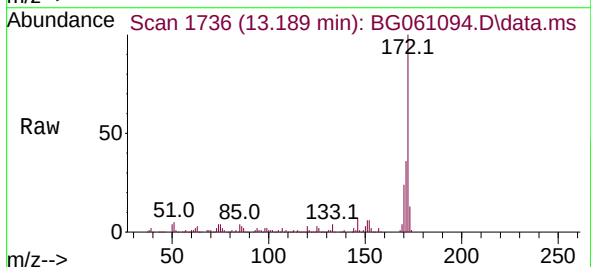
Manual Integrations

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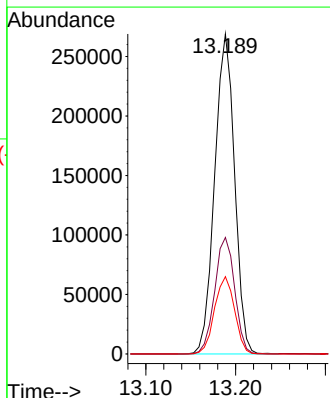
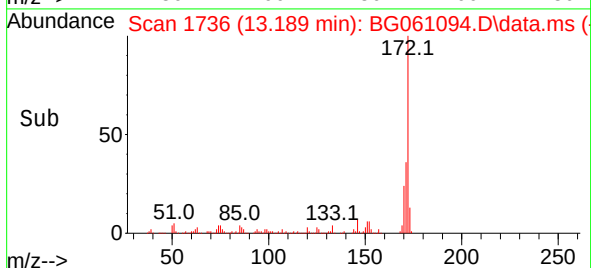
Reviewed By :Yogesh Patel 05/03/2024  
Supervised By :mohammad ahmed 05/06/2024

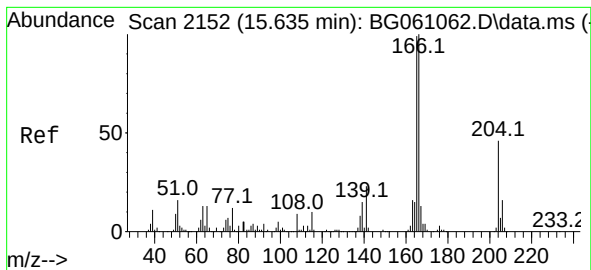


#45  
2-Fluorobiphenyl  
Concen: 72.716 ng  
RT: 13.189 min Scan# 1736  
Delta R.T. -0.020 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23



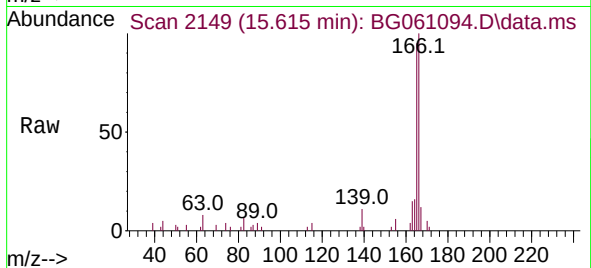
Tgt Ion:172 Resp: 413303  
Ion Ratio Lower Upper  
172 100  
171 36.4 29.0 43.6  
170 24.2 20.2 30.4





#58  
Fluorene  
Concen: 2.437 ng  
RT: 15.615 min Scan# 2152  
Delta R.T. -0.020 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23

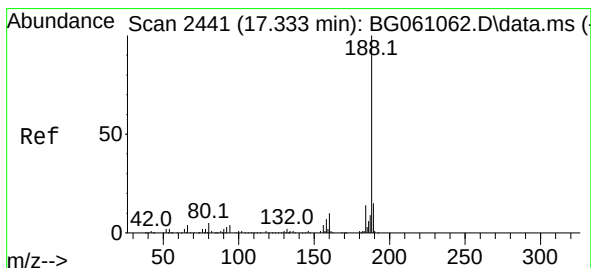
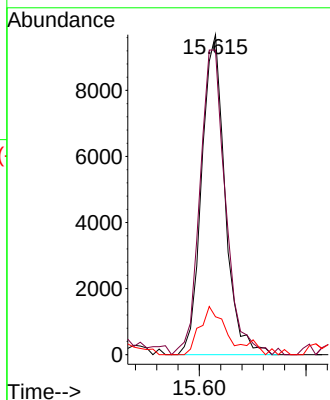
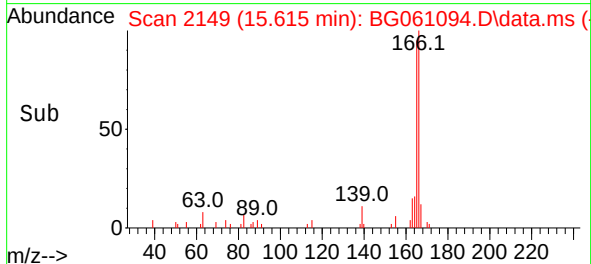
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-207



Tgt Ion:166 Resp: 14724  
Ion Ratio Lower Upper  
166 100  
165 95.2 78.9 118.3  
167 11.9 10.6 15.8

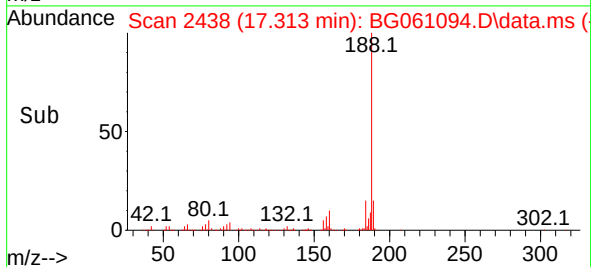
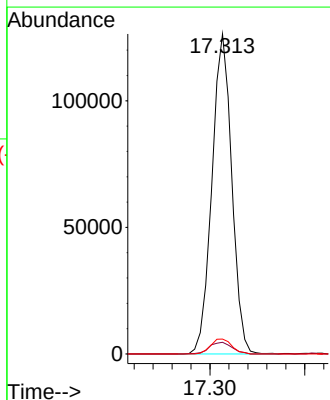
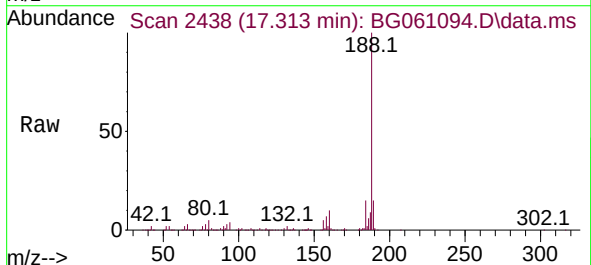
Manual Integrations  
APPROVED

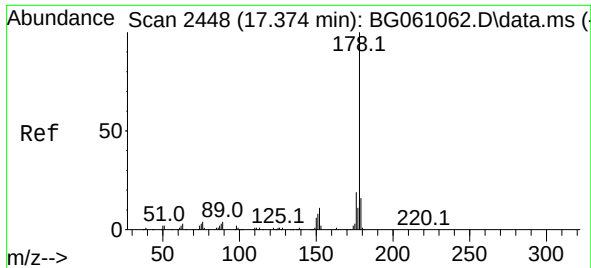
Reviewed By :Yogesh Patel 05/03/2024  
Supervised By :mohammad ahmed 05/06/2024



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.313 min Scan# 2438  
Delta R.T. -0.020 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23

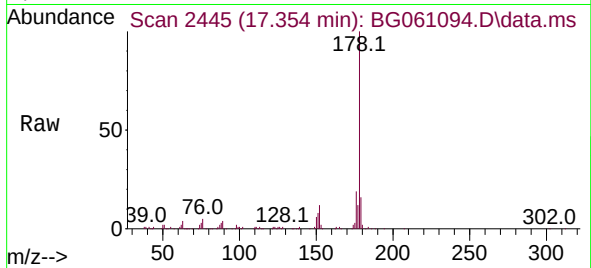
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Ion Ratio Lower Upper  
188 100  
94 3.7 3.6 5.4  
80 4.6 4.2 6.2





#71  
Phenanthrene  
Concen: 16.244 ng  
RT: 17.354 min Scan# 2445  
Delta R.T. -0.020 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23

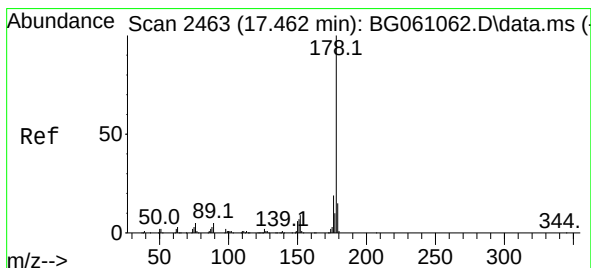
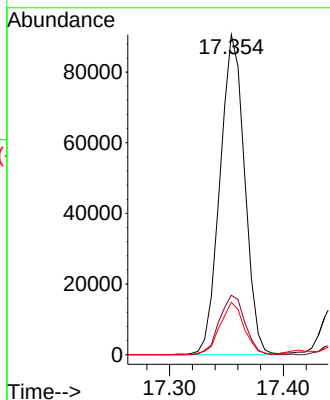
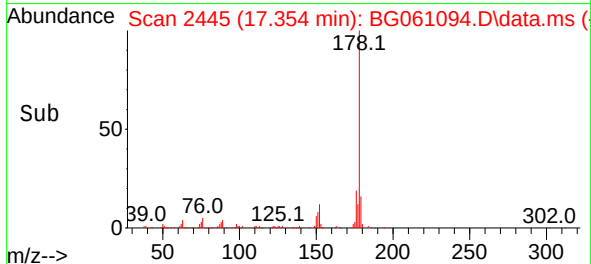
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-207



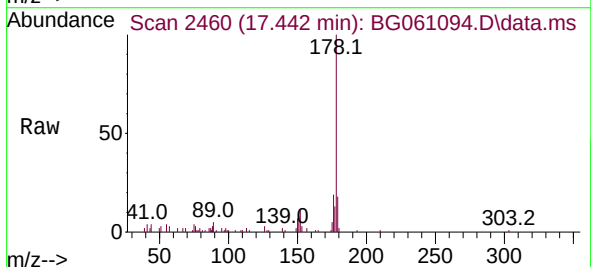
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Ion Ratio Lower Upper  
178 100  
176 18.6 15.5 23.3  
179 16.4 12.6 19.0

Manual Integrations  
APPROVED

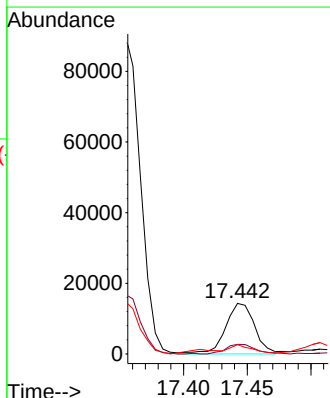
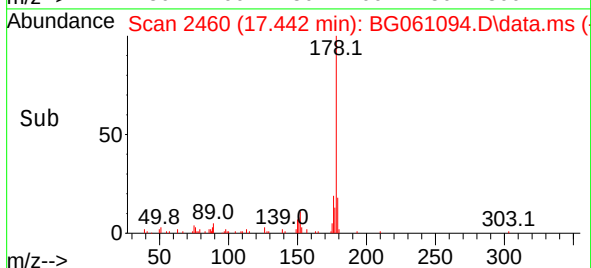
Reviewed By :Yogesh Patel 05/03/2024  
Supervised By :mohammad ahmed 05/06/2024



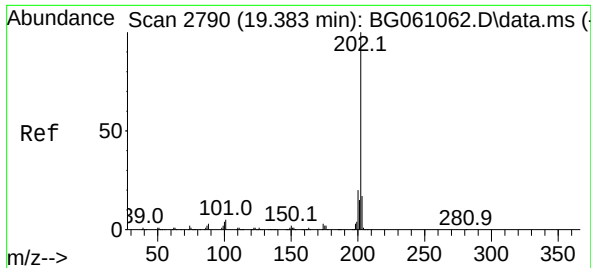
#72  
Anthracene  
Concen: 2.715 ng m  
RT: 17.442 min Scan# 2460  
Delta R.T. -0.020 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23



Tgt Ion:178 Resp: 22739  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.0 22.6  
179 18.3 12.0 18.0#

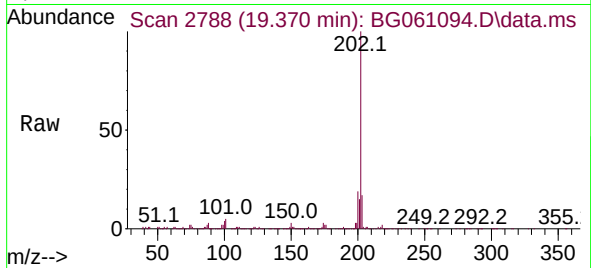






#75  
Fluoranthene  
Concen: 24.826 ng  
RT: 19.370 min Scan# 21  
Delta R.T. -0.014 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23

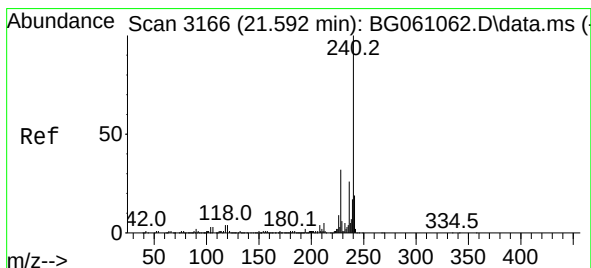
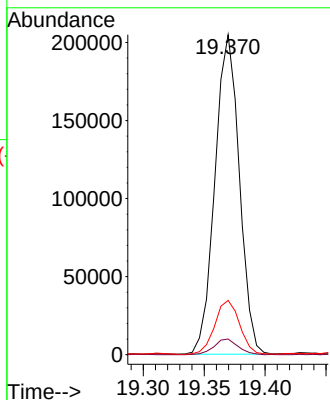
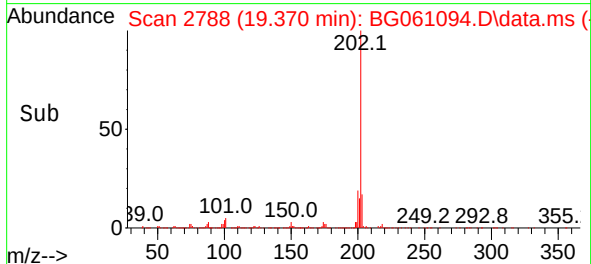
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-207



Tgt Ion:202 Resp: 285448  
Ion Ratio Lower Upper  
202 100  
101 4.9 0.0 24.7  
203 17.0 0.0 37.1

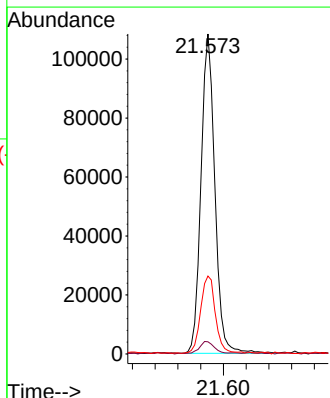
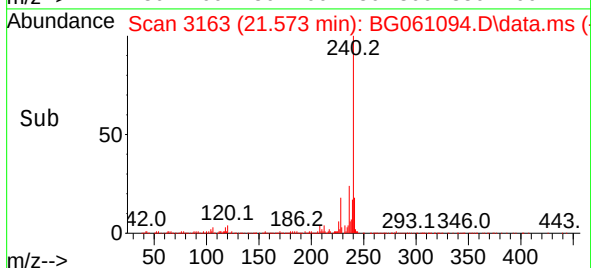
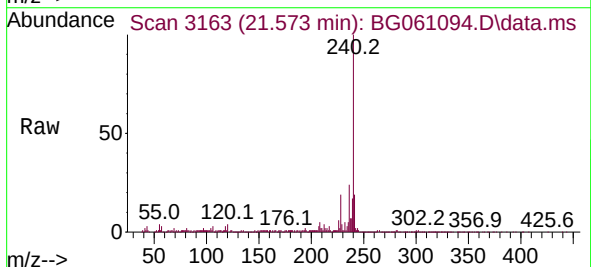
Manual Integrations  
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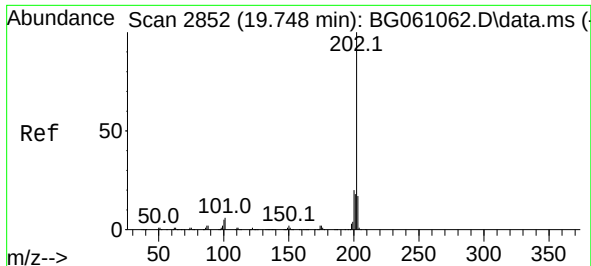
Reviewed By :Yogesh Patel 05/03/2024  
Supervised By :mohammad ahmed 05/06/2024



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.573 min Scan# 3163  
Delta R.T. -0.020 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23

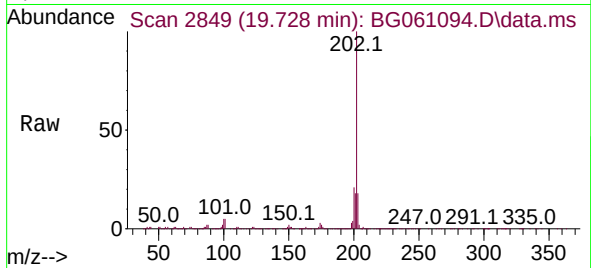
Tgt Ion:240 Resp: 182894  
Ion Ratio Lower Upper  
240 100  
120 3.8 3.2 4.8  
236 24.3 21.0 31.6





#78  
Pyrene  
Concen: 23.419 ng  
RT: 19.728 min Scan# 2849  
Delta R.T. -0.020 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23

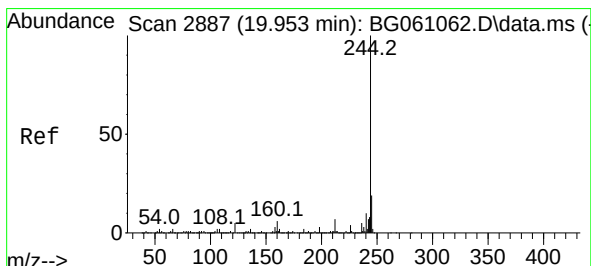
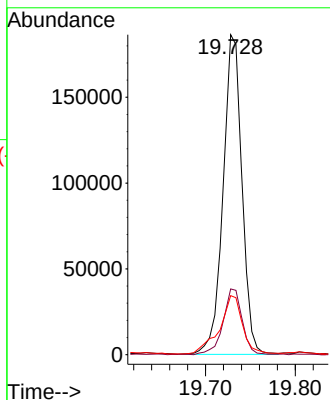
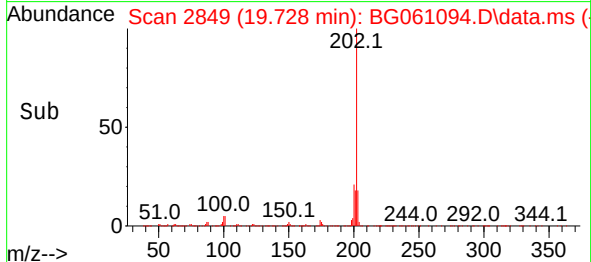
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-207



Tgt Ion:202 Resp: 272310  
Ion Ratio Lower Upper  
202 100  
200 20.5 16.2 24.4  
203 18.4 13.3 19.9

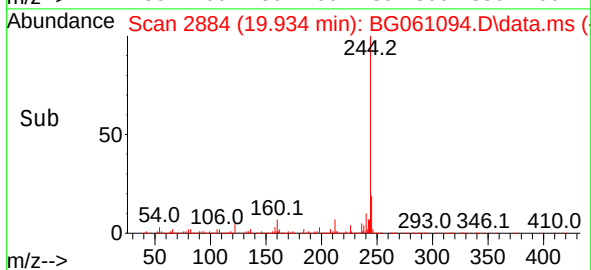
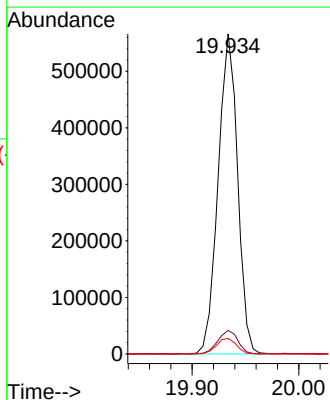
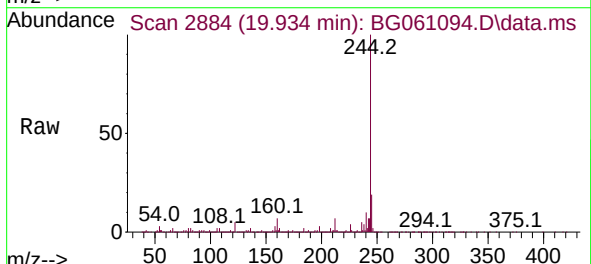
Manual Integrations  
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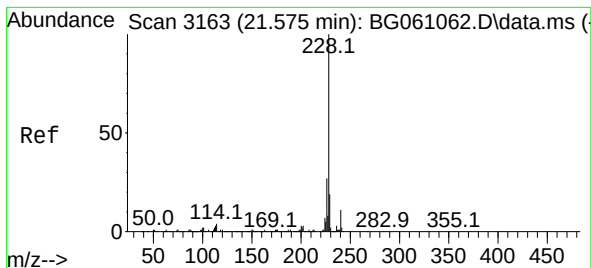
Reviewed By :Yogesh Patel 05/03/2024  
Supervised By :mohammad ahmed 05/06/2024



#79  
Terphenyl-d14  
Concen: 65.149 ng  
RT: 19.934 min Scan# 2884  
Delta R.T. -0.020 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23

Tgt Ion:244 Resp: 716436  
Ion Ratio Lower Upper  
244 100  
212 7.3 5.7 8.5  
122 4.9 4.2 6.2





#81

Benzo(a)anthracene

Concen: 9.843 ng

RT: 21.555 min Scan# 3160

Delta R.T. -0.020 min

Lab File: BG061094.D

Acq: 2 May 2024 15:23

Instrument :

BNA\_G

ClientSampleId :

VNJ-207

Tgt Ion:228 Resp: 11780

Ion Ratio Lower Upper

228 100

226 27.2 21.6 32.4

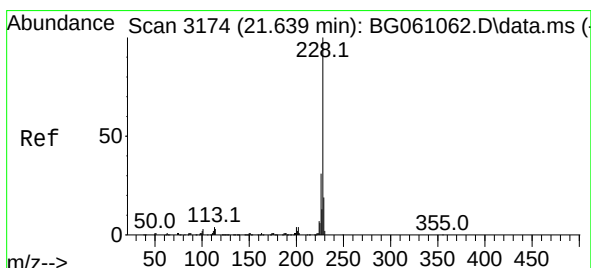
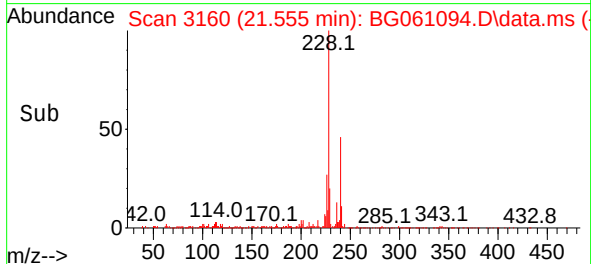
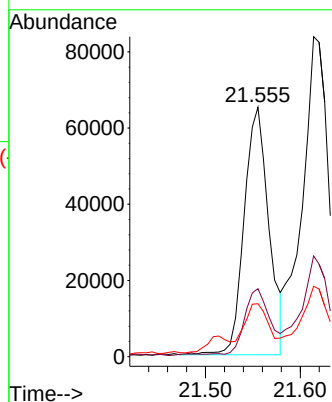
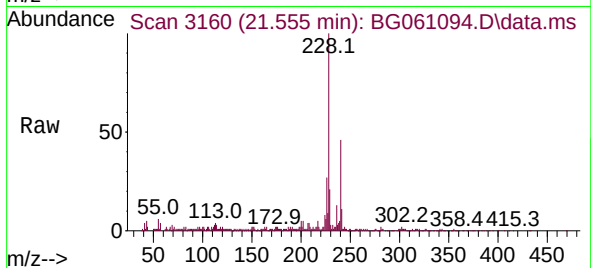
229 21.2 15.0 22.4

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Reviewed By :Yogesh Patel 05/03/2024

Supervised By :mohammad ahmed 05/06/2024



#83

Chrysene

Concen: 14.657 ng

RT: 21.614 min Scan# 3170

Delta R.T. -0.025 min

Lab File: BG061094.D

Acq: 2 May 2024 15:23

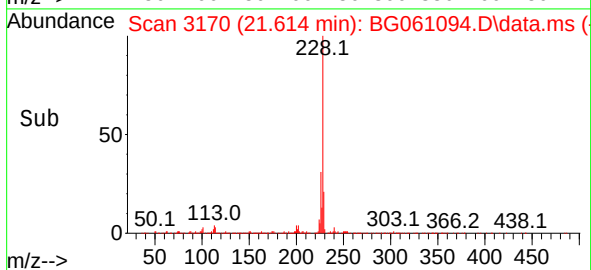
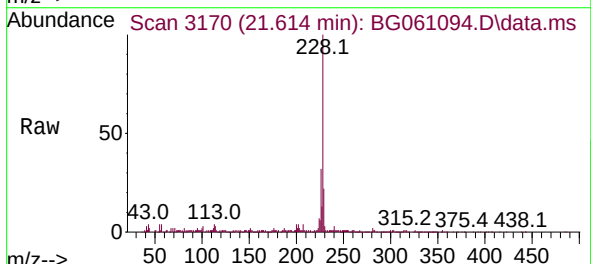
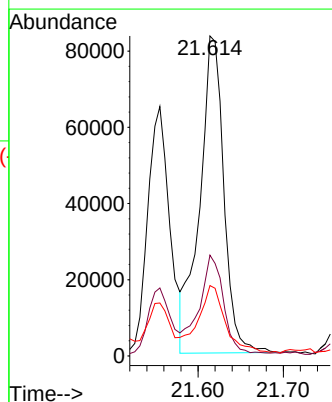
Tgt Ion:228 Resp: 164353

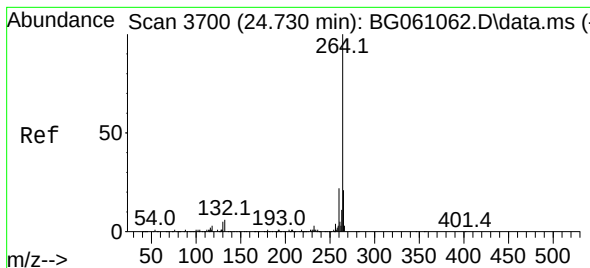
Ion Ratio Lower Upper

228 100

226 31.5 24.4 36.6

229 22.0 14.8 22.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.699 min Scan# 30

Delta R.T. -0.031 min

Lab File: BG061094.D

Acq: 2 May 2024 15:23

Instrument :

BNA\_G

ClientSampleId :

VNJ-207

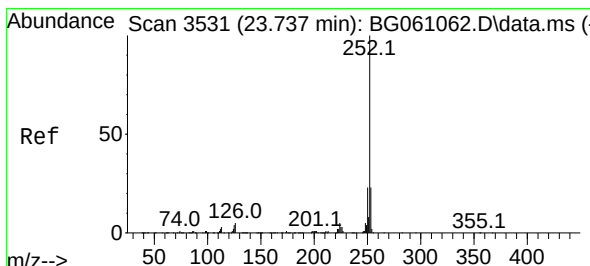
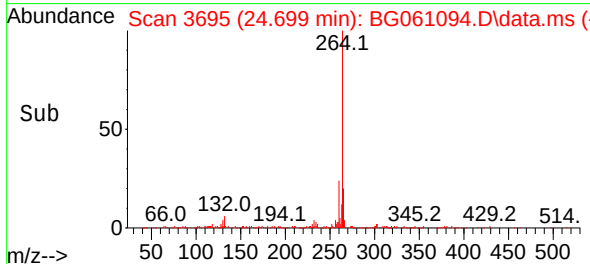
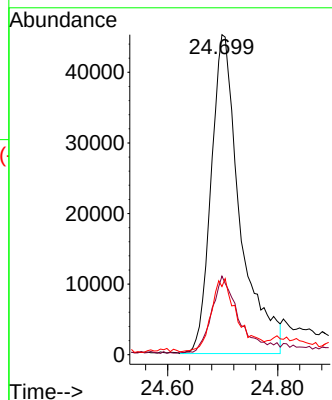
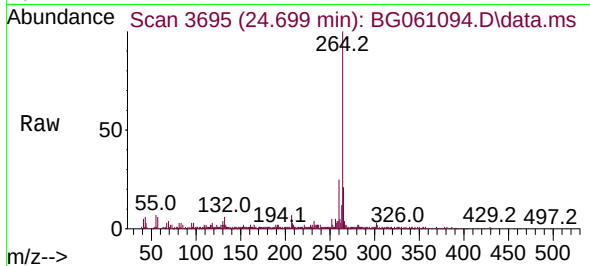
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:264 | Resp: | 164578    |
| Ion Ratio   | Lower | Upper     |
| 264         | 100   |           |
| 260         | 24.5  | 17.7 26.5 |
| 265         | 21.3  | 16.4 24.6 |

Manual Integrations

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Reviewed By :Yogesh Patel 05/03/2024

Supervised By :mohammad ahmed 05/06/2024



#88

Benzo(b)fluoranthene

Concen: 13.547 ng m

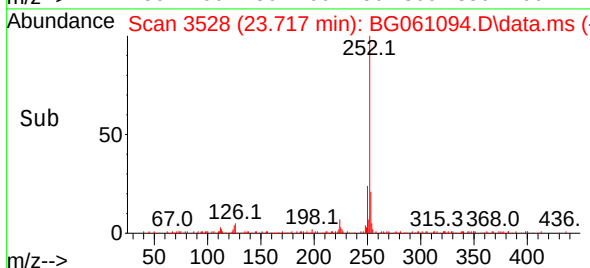
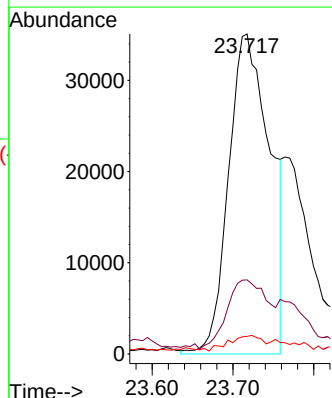
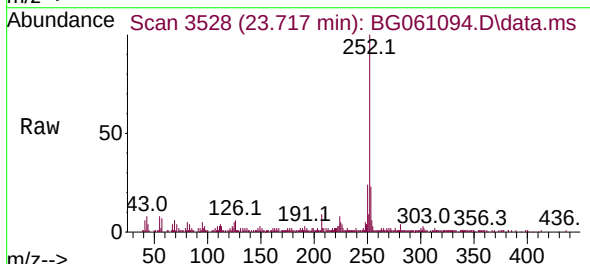
RT: 23.717 min Scan# 3528

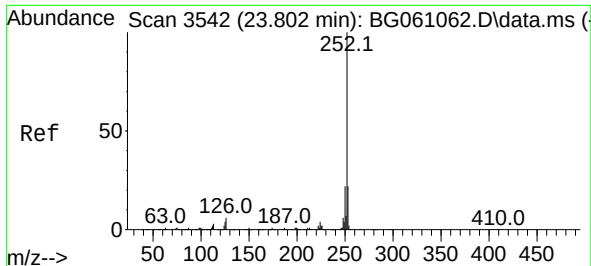
Delta R.T. -0.020 min

Lab File: BG061094.D

Acq: 2 May 2024 15:23

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 124583    |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 23.2  | 18.2 27.2 |
| 125         | 5.5   | 3.4 5.0#  |





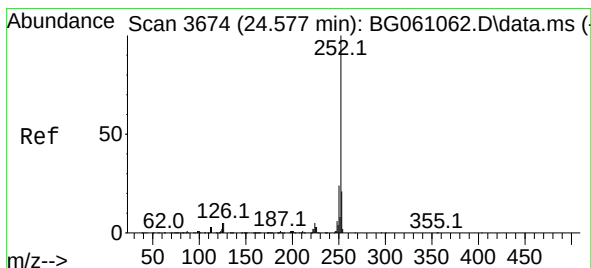
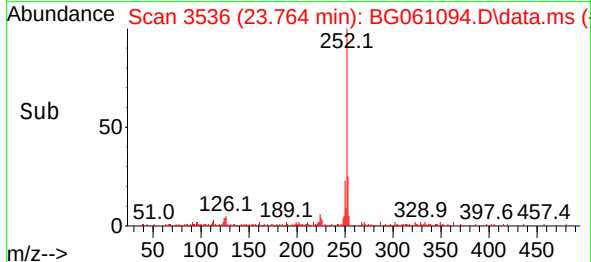
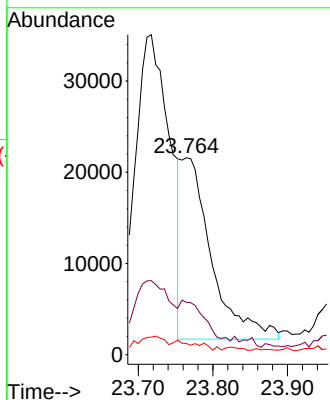
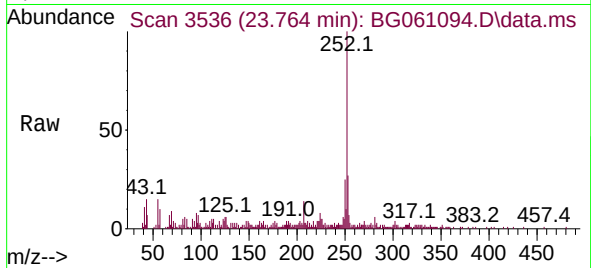
#89  
Benzo(k)fluoranthene  
Concen: 6.453 ng m  
RT: 23.764 min Scan# 3536  
Delta R.T. -0.037 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23

Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-207

Tgt Ion:252 Resp: 57093  
Ion Ratio Lower Upper  
252 100  
253 26.5 17.3 25.9  
125 5.7 3.2 4.8

Manual Integrations  
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Reviewed By :Yogesh Patel 05/03/2024  
Supervised By :mohammad ahmed 05/06/2024



#90  
Benzo(a)pyrene  
Concen: 6.831 ng  
RT: 24.546 min Scan# 3669  
Delta R.T. -0.031 min  
Lab File: BG061094.D  
Acq: 2 May 2024 15:23

Tgt Ion:252 Resp: 54728  
Ion Ratio Lower Upper  
252 100  
253 24.8 16.9 25.3  
125 8.1 3.8 5.8

