

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG082923\  
 Data File : BG058887.D  
 Acq On : 29 Aug 2023 14:42  
 Operator : MA/JU  
 Sample : 04165-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 VNJ-210

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/30/2023  
 Supervised By :mohammad ahmed 08/30/2023

Quant Time: Aug 29 15:27:22 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG081823.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 29 14:27:28 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.785  | 152  | 16603    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.587 | 136  | 77547    | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.436 | 164  | 60027    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.186 | 188  | 139029   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.422 | 240  | 111665   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 24.477 | 264  | 138468   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.358  | 112  | 125888   | 122.018 | ng    | 0.00     |
| 7) Phenol-d6                | 6.962  | 99   | 177779   | 122.817 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.948  | 82   | 111477   | 69.114  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.928 | 330  | 114490   | 121.641 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.055 | 172  | 302250   | 73.235  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.806 | 244  | 503095   | 80.898  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 17.227 | 178  | 27895    | 4.179   | ng    | 95       |
| 75) Fluoranthene            | 19.242 | 202  | 72091    | 8.710   | ng    | 99       |
| 78) Pyrene                  | 19.606 | 202  | 68097    | 8.752   | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.404 | 228  | 40924    | 5.265   | ng    | 96       |
| 83) Chrysene                | 21.463 | 228  | 44335    | 5.918   | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 27.949 | 276  | 33191    | 3.543   | ng    | # 95     |
| 88) Benzo(b)fluoranthene    | 23.508 | 252  | 64396    | 8.382   | ng    | # 94     |
| 89) Benzo(k)fluoranthene    | 23.566 | 252  | 21909m   | 2.765   | ng    |          |
| 90) Benzo(a)pyrene          | 24.330 | 252  | 43687    | 5.775   | ng    | # 97     |
| 92) Benzo(g,h,i)perylene    | 29.036 | 276  | 33467    | 4.348   | ng    | # 93     |
| -----                       |        |      |          |         |       |          |

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

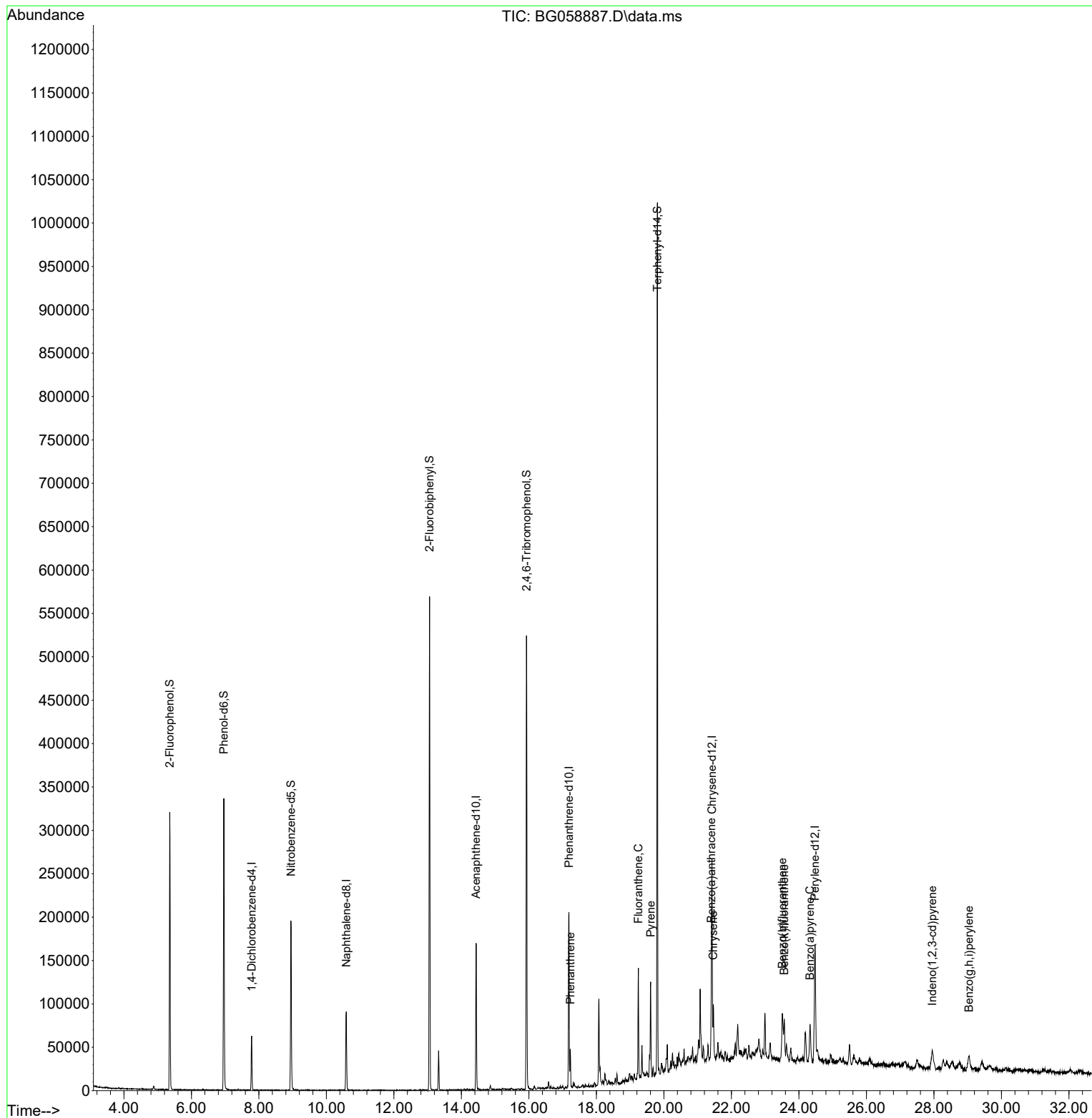
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG082923\  
Data File : BG058887.D  
Acq On : 29 Aug 2023 14:42  
Operator : MA/JU  
Sample : 04165-03  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

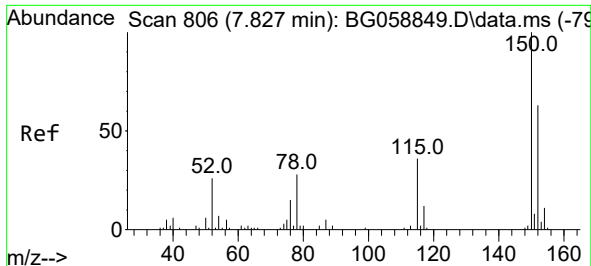
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-210

Manual Integrations  
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Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023

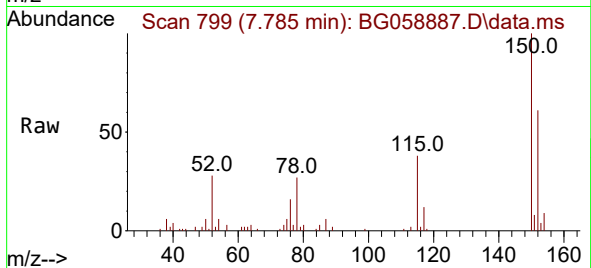
Quant Time: Aug 29 15:27:22 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG081823.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Aug 29 14:27:28 2023  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.785 min Scan# 799  
Delta R.T. -0.004 min  
Lab File: BG058887.D  
Acq: 29 Aug 2023 14:42

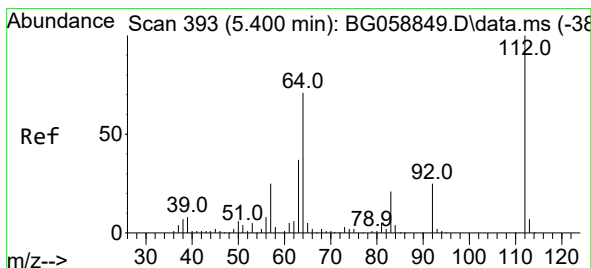
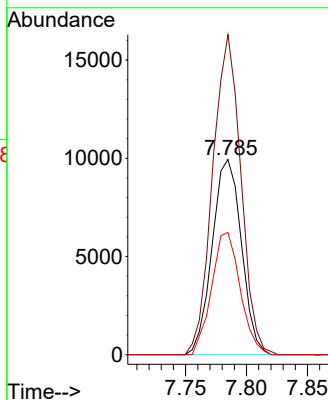
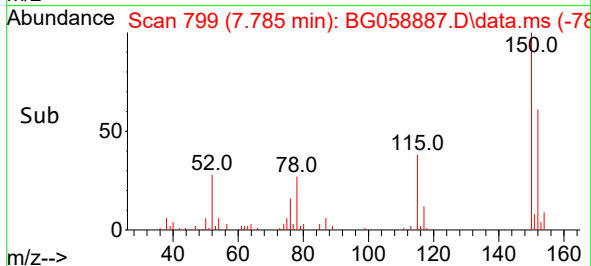
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-210



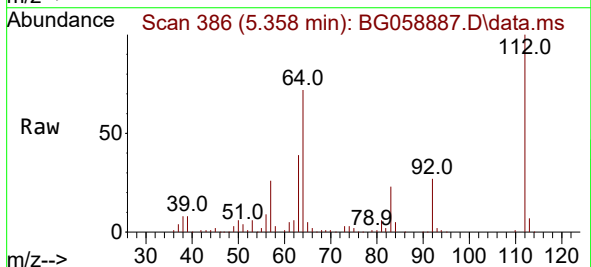
Tgt Ion:152 Resp: 1660  
Ion Ratio Lower Upper  
152 100  
150 163.9 128.6 192.8  
115 62.7 50.4 75.6

Manual Integrations  
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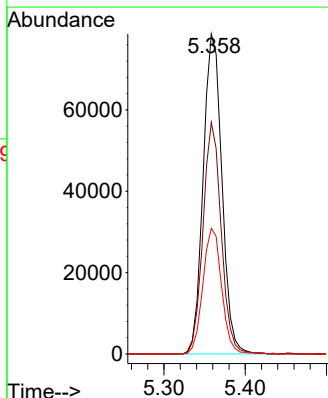
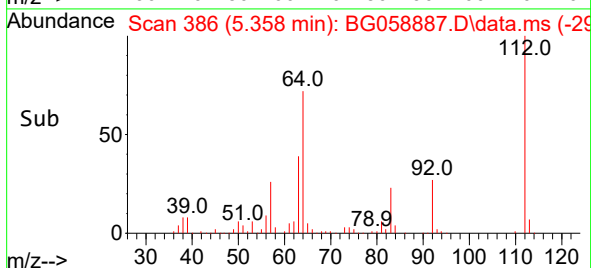
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023

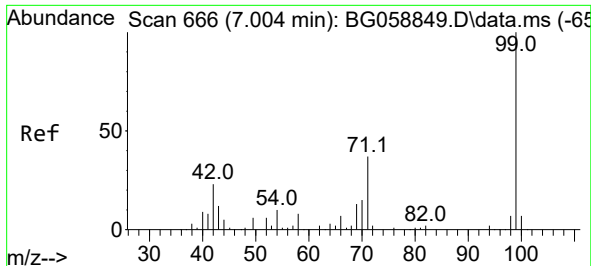


#5  
2-Fluorophenol  
Concen: 122.018 ng  
RT: 5.358 min Scan# 386  
Delta R.T. 0.002 min  
Lab File: BG058887.D  
Acq: 29 Aug 2023 14:42



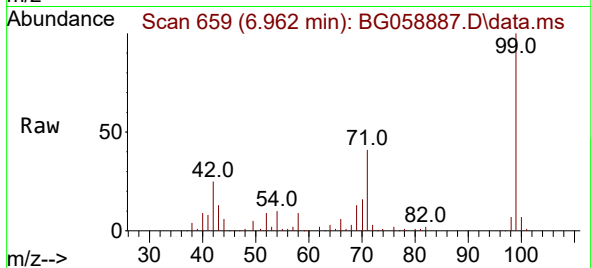
Tgt Ion:112 Resp: 125888  
Ion Ratio Lower Upper  
112 100  
64 72.4 60.6 90.8  
63 39.3 31.0 46.4





#7  
Phenol-d6  
Concen: 122.817 ng  
RT: 6.962 min Scan# 61  
Delta R.T. -0.004 min  
Lab File: BG058887.D  
Acq: 29 Aug 2023 14:42

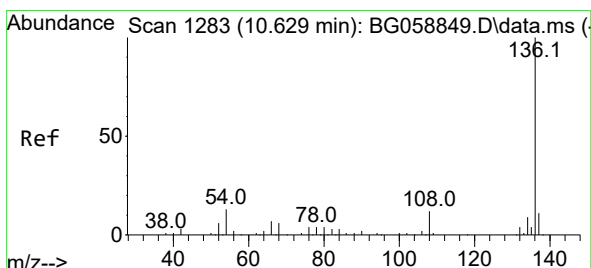
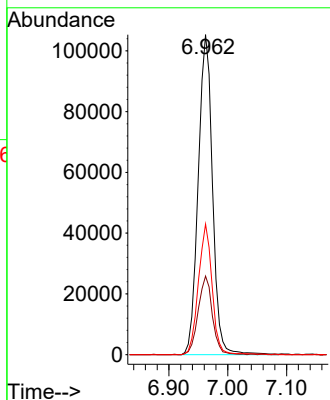
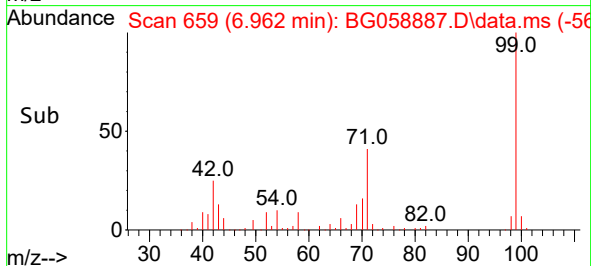
Instrument :  
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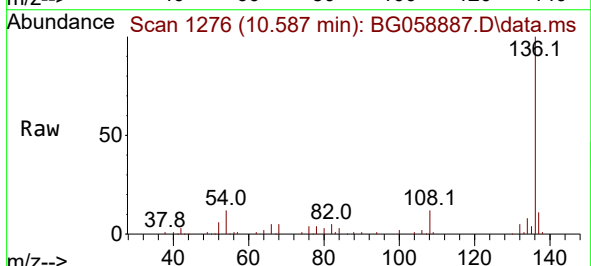
Tgt Ion: 99 Resp: 177779  
Ion Ratio Lower Upper  
99 100  
42 24.6 16.5 24.7  
71 40.8 28.4 42.6

Manual Integrations  
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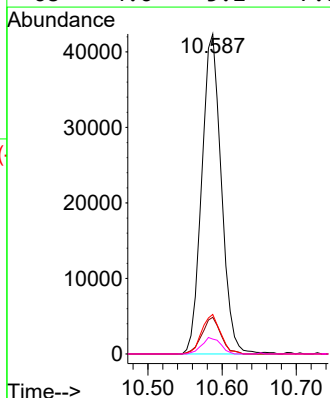
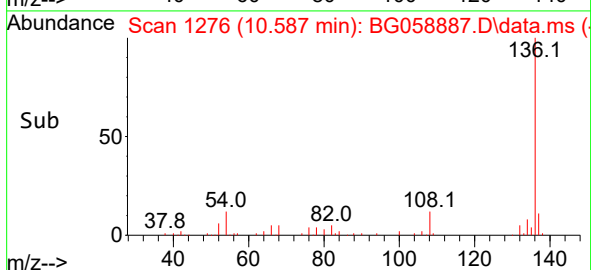
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023

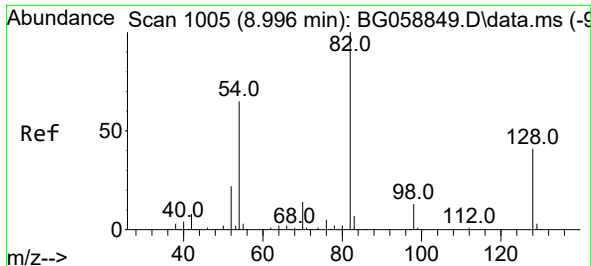


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.587 min Scan# 1276  
Delta R.T. -0.004 min  
Lab File: BG058887.D  
Acq: 29 Aug 2023 14:42



Tgt Ion:136 Resp: 77547  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.7 13.1  
54 12.4 10.1 15.1  
68 4.6 5.2 7.8#





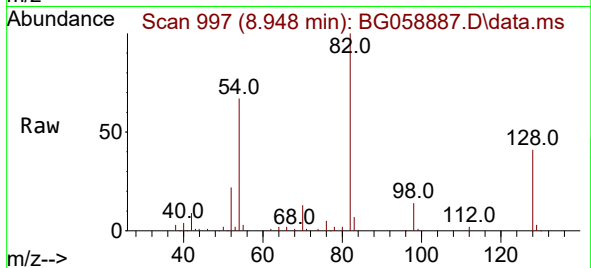
#23  
Nitrobenzene-d5  
Concen: 69.114 ng  
RT: 8.948 min Scan# 911  
Delta R.T. -0.010 min  
Lab File: BG058887.D  
Acq: 29 Aug 2023 14:42

Instrument :

BNA\_G

ClientSampleId :

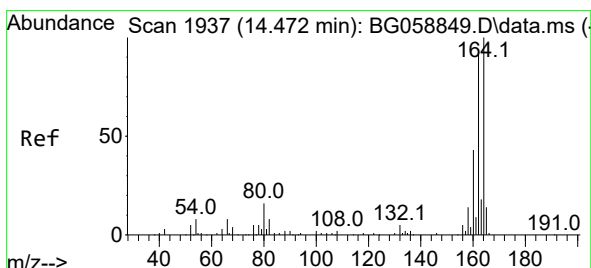
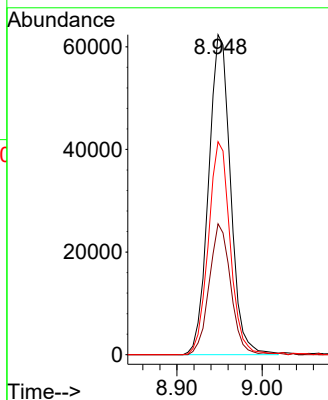
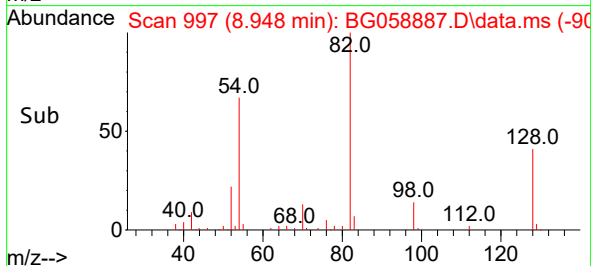
VNJ-210



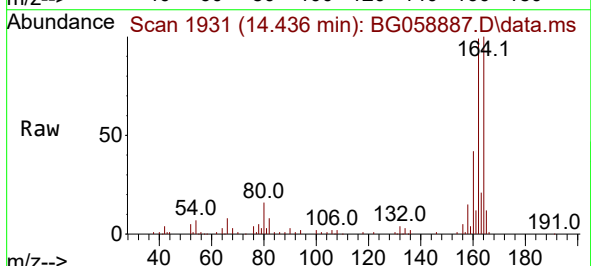
Tgt Ion: 82 Resp: 111477  
Ion Ratio Lower Upper  
82 100  
128 40.9 33.2 49.8  
54 66.5 51.2 76.8

Manual Integrations  
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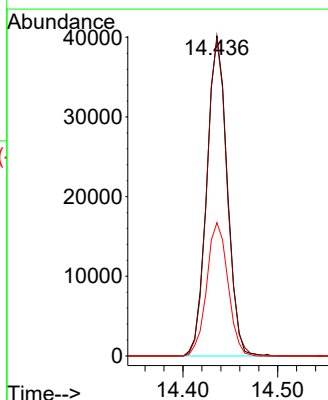
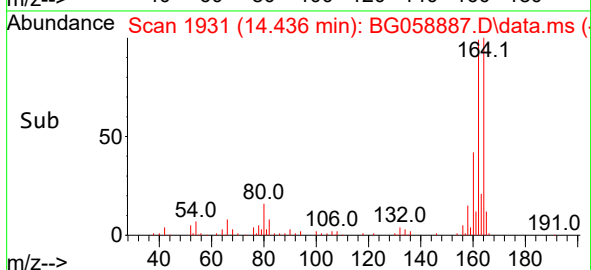
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023

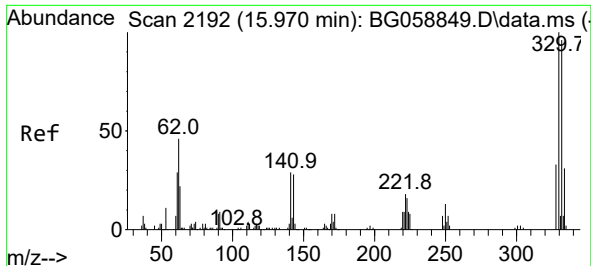


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.436 min Scan# 1931  
Delta R.T. -0.004 min  
Lab File: BG058887.D  
Acq: 29 Aug 2023 14:42



Tgt Ion:164 Resp: 60027  
Ion Ratio Lower Upper  
164 100  
162 99.0 79.6 119.4  
160 41.6 34.0 51.0





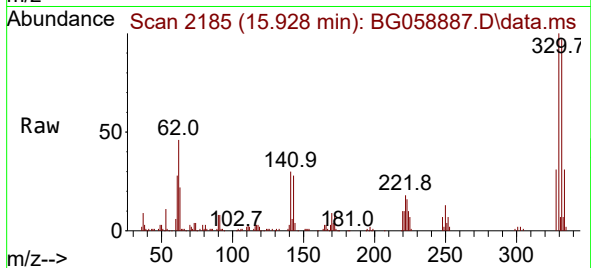
#42  
2,4,6-Tribromophenol  
Concen: 121.641 ng  
RT: 15.928 min Scan# 2192  
Delta R.T. -0.004 min  
Lab File: BG058887.D  
Acq: 29 Aug 2023 14:42

Instrument :

BNA\_G

ClientSampleId :

VNJ-210

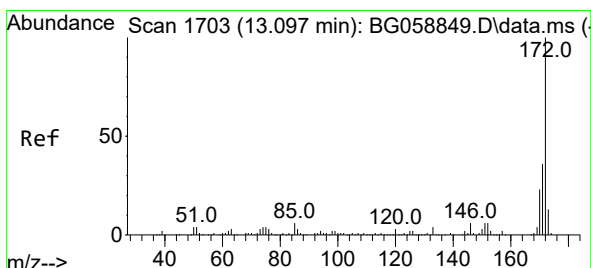
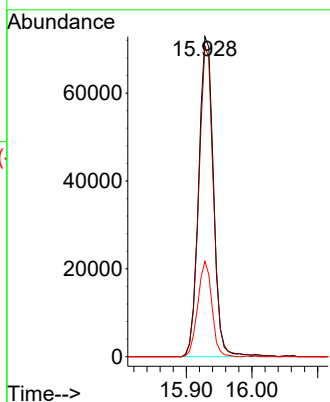
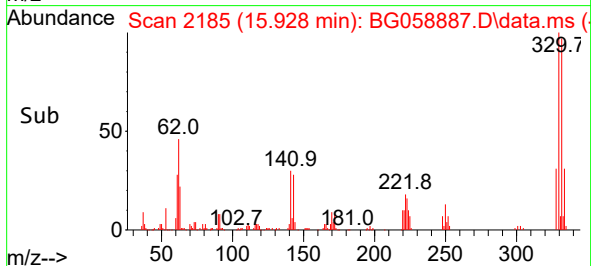


Tgt Ion:330 Resp: 114490  
Ion Ratio Lower Upper  
330 100  
332 96.4 78.5 117.7  
141 28.3 23.0 34.6

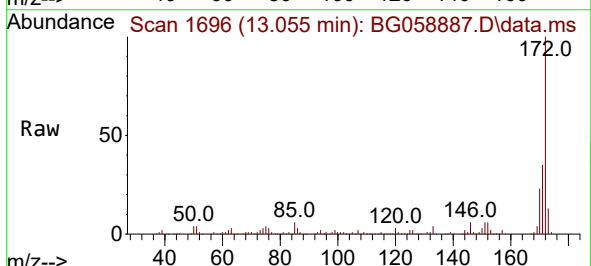
Manual Integrations

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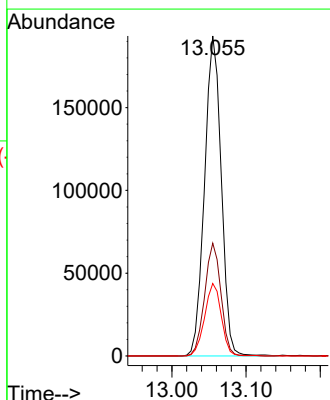
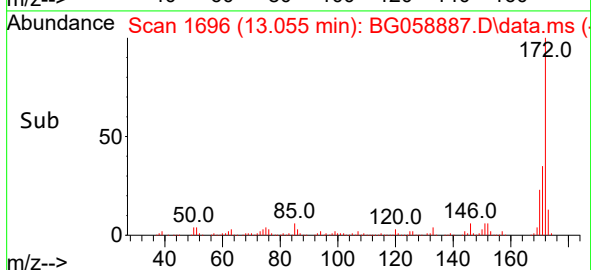
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023

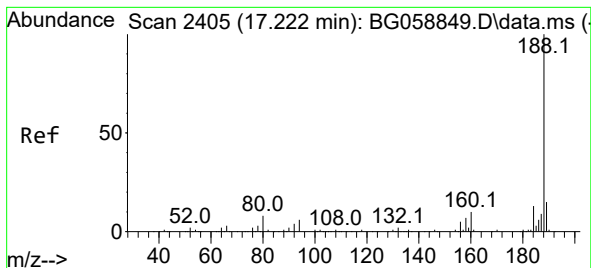


#45  
2-Fluorobiphenyl  
Concen: 73.235 ng  
RT: 13.055 min Scan# 1696  
Delta R.T. -0.004 min  
Lab File: BG058887.D  
Acq: 29 Aug 2023 14:42



Tgt Ion:172 Resp: 302250  
Ion Ratio Lower Upper  
172 100  
171 35.2 28.1 42.1  
170 22.7 18.6 27.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.186 min Scan# 21

Delta R.T. 0.002 min

Lab File: BG058887.D

Acq: 29 Aug 2023 14:42

Instrument :

BNA\_G

ClientSampleId :

VNJ-210

Tgt Ion:188 Resp: 139029

Ion Ratio Lower Upper

188 100

94 6.3 6.1 9.1

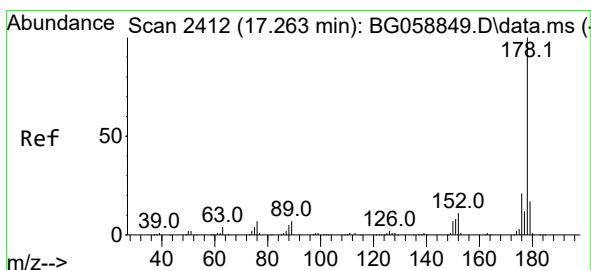
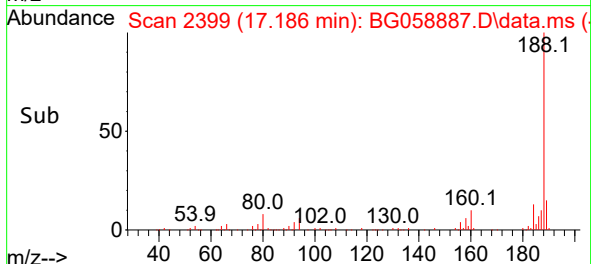
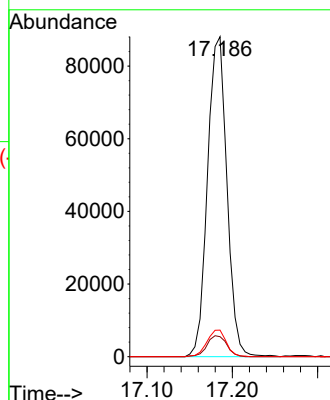
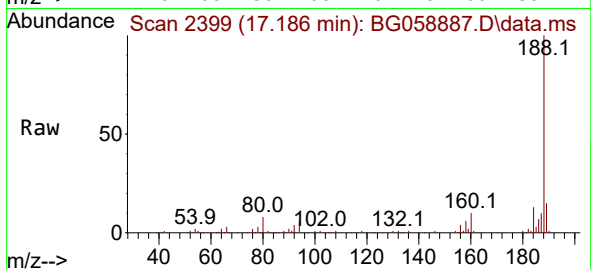
80 8.3 6.9 10.3

Manual Integrations

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Reviewed By :Yogesh Patel 08/30/2023

Supervised By :mohammad ahmed 08/30/2023



#71

Phenanthrene

Concen: 4.179 ng

RT: 17.227 min Scan# 2406

Delta R.T. -0.004 min

Lab File: BG058887.D

Acq: 29 Aug 2023 14:42

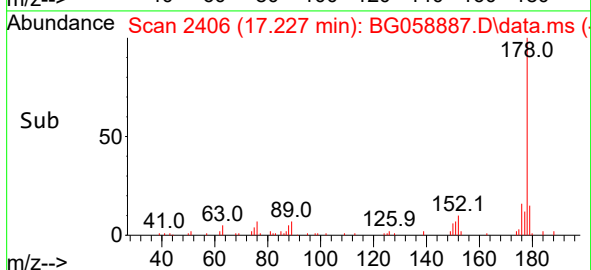
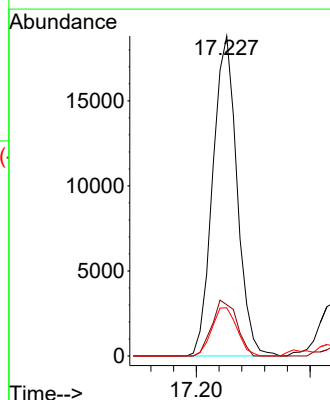
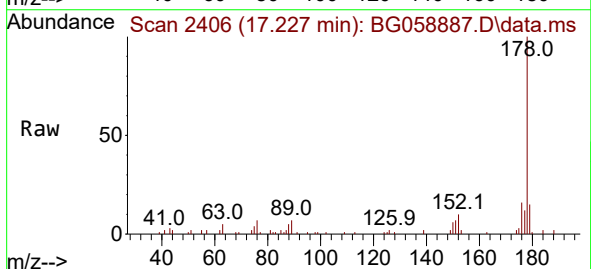
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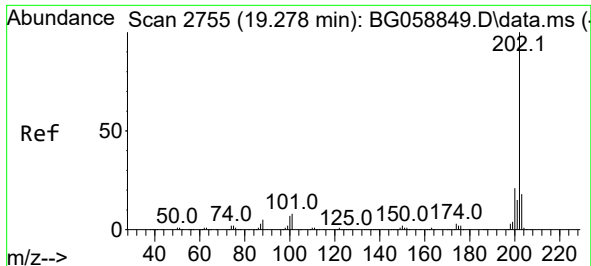
Ion Ratio Lower Upper

178 100

176 16.0 15.5 23.3

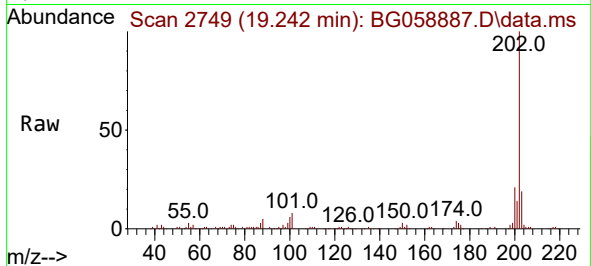
179 15.1 13.0 19.4





#75  
Fluoranthene  
Concen: 8.710 ng  
RT: 19.242 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: BG058887.D  
Acq: 29 Aug 2023 14:42

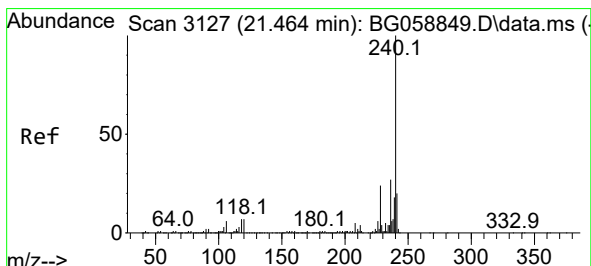
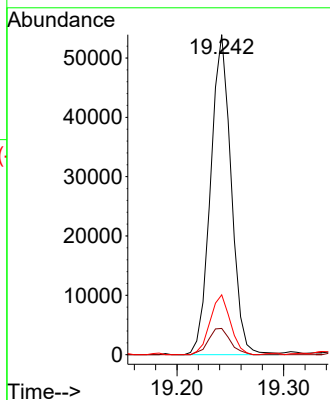
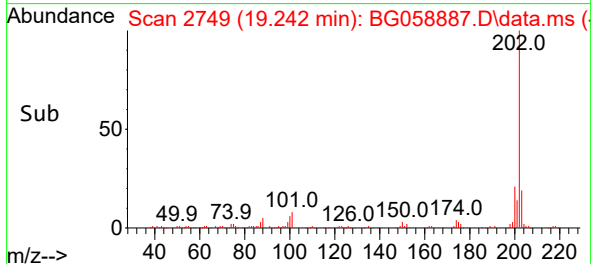
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-210



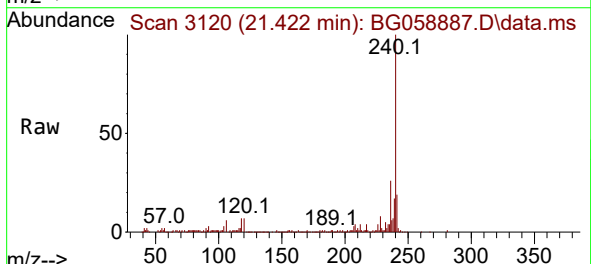
Tgt Ion:202 Resp: 7209  
Ion Ratio Lower Upper  
202 100  
101 8.2 0.0 29.7  
203 18.7 0.0 38.7

Manual Integrations  
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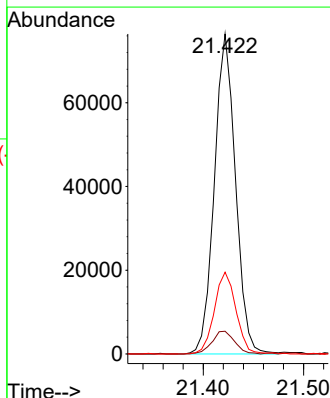
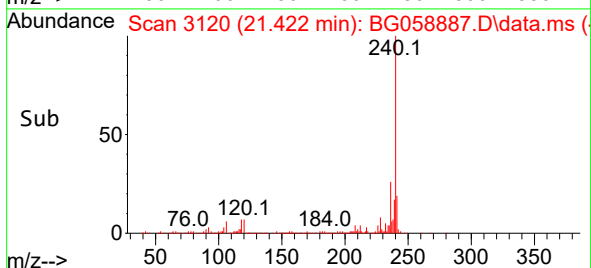
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023

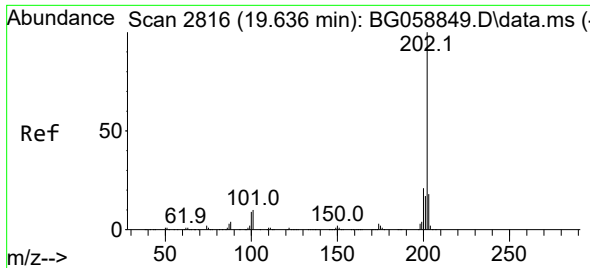


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.422 min Scan# 3120  
Delta R.T. -0.004 min  
Lab File: BG058887.D  
Acq: 29 Aug 2023 14:42



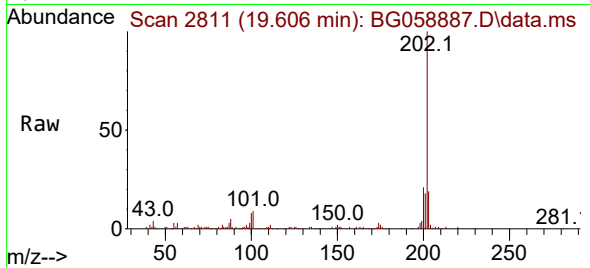
Tgt Ion:240 Resp: 111665  
Ion Ratio Lower Upper  
240 100  
120 7.1 6.2 9.2  
236 25.6 20.5 30.7





#78  
 Pyrene  
 Concen: 8.752 ng  
 RT: 19.606 min Scan# 21  
 Delta R.T. 0.002 min  
 Lab File: BG058887.D  
 Acq: 29 Aug 2023 14:42

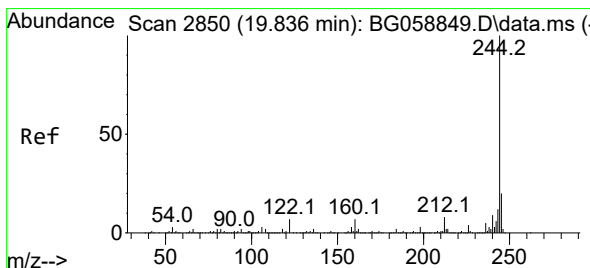
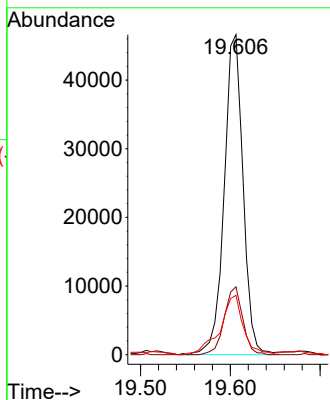
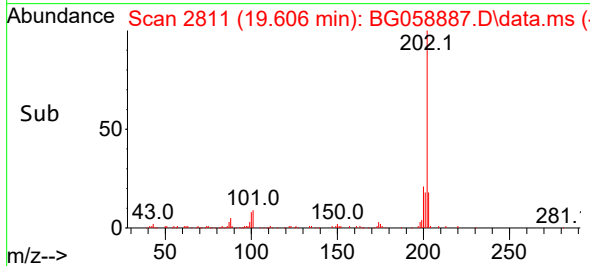
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VNJ-210



Tgt Ion:202 Resp: 6809  
 Ion Ratio Lower Upper  
 202 100  
 200 21.2 16.7 25.1  
 203 18.5 15.3 22.9

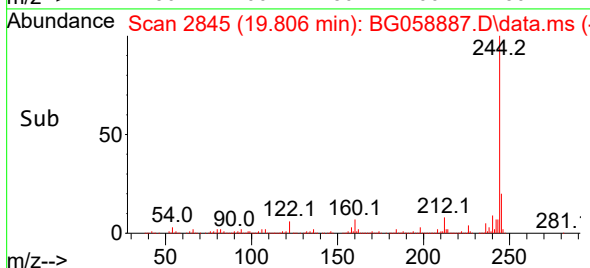
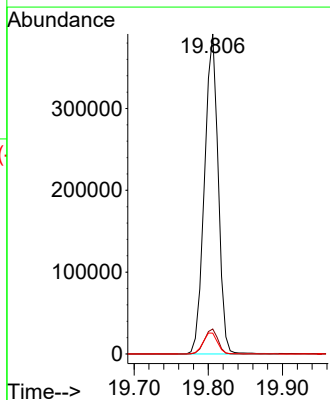
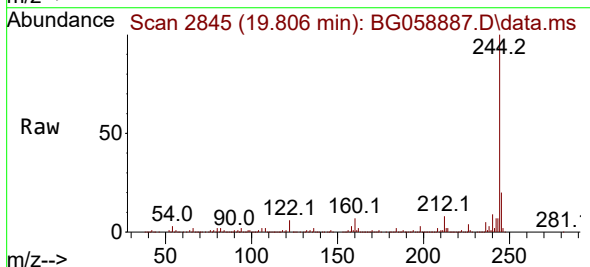
Manual Integrations  
 APPROVED

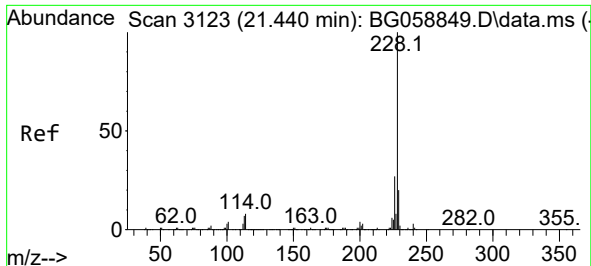
Reviewed By :Yogesh Patel 08/30/2023  
 Supervised By :mohammad ahmed 08/30/2023



#79  
 Terphenyl-d14  
 Concen: 80.898 ng  
 RT: 19.806 min Scan# 2845  
 Delta R.T. 0.002 min  
 Lab File: BG058887.D  
 Acq: 29 Aug 2023 14:42

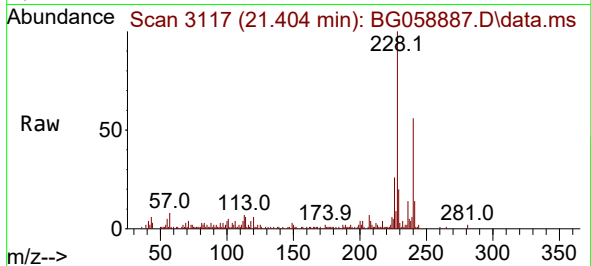
Tgt Ion:244 Resp: 503095  
 Ion Ratio Lower Upper  
 244 100  
 212 7.8 6.2 9.2  
 122 6.5 6.3 9.5





#81  
Benzo(a)anthracene  
Concen: 5.265 ng  
RT: 21.404 min Scan# 3117  
Delta R.T. 0.002 min  
Lab File: BG058887.D  
Acq: 29 Aug 2023 14:42

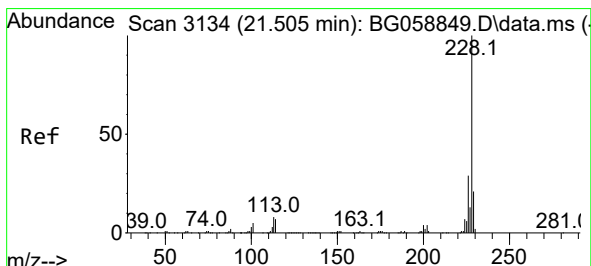
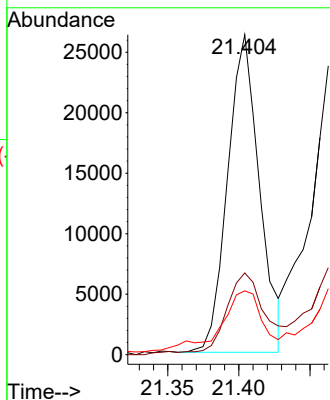
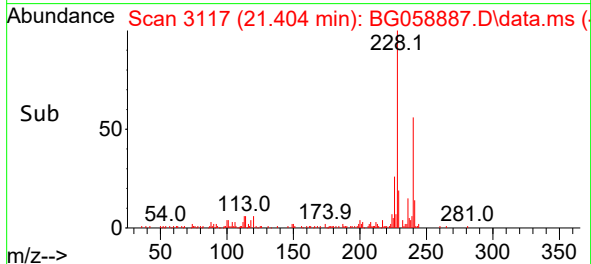
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-210



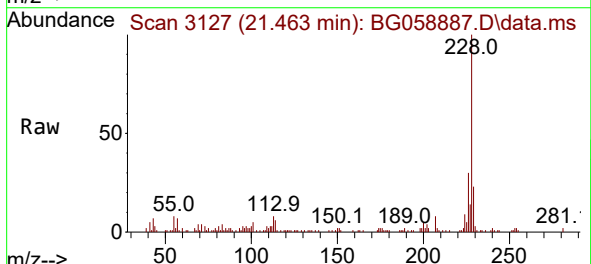
Tgt Ion:228 Resp: 40924  
Ion Ratio Lower Upper  
228 100  
226 25.6 22.6 33.8  
229 20.0 16.8 25.2

Manual Integrations  
APPROVED

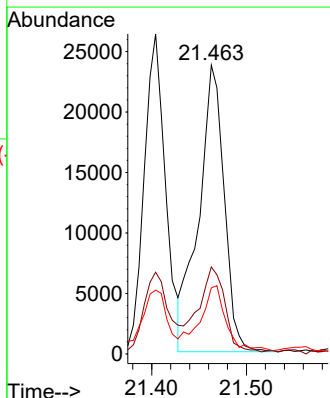
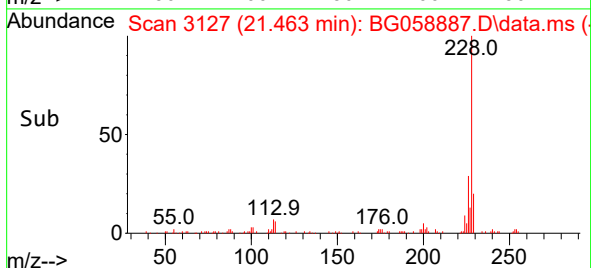
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023

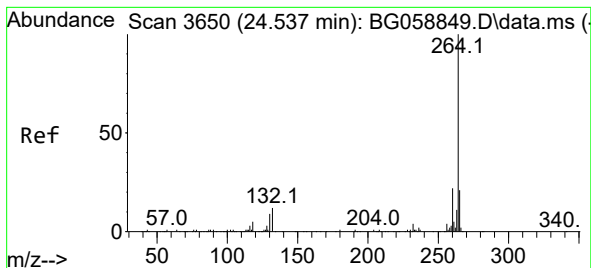


#83  
Chrysene  
Concen: 5.918 ng  
RT: 21.463 min Scan# 3127  
Delta R.T. -0.004 min  
Lab File: BG058887.D  
Acq: 29 Aug 2023 14:42



Tgt Ion:228 Resp: 44335  
Ion Ratio Lower Upper  
228 100  
226 30.2 24.4 36.6  
229 22.9 16.3 24.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.477 min Scan# 30

Delta R.T. 0.008 min

Lab File: BG058887.D

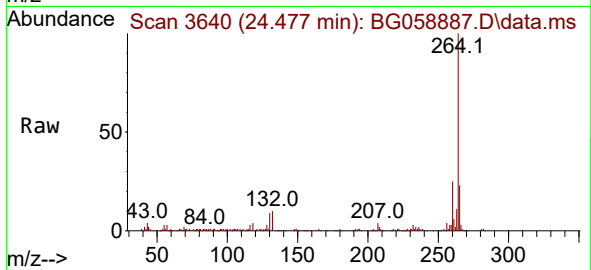
Acq: 29 Aug 2023 14:42

Instrument :

BNA\_G

ClientSampleId :

VNJ-210



Tgt Ion: 264 Resp: 138468

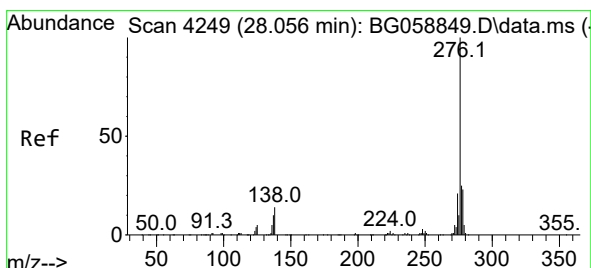
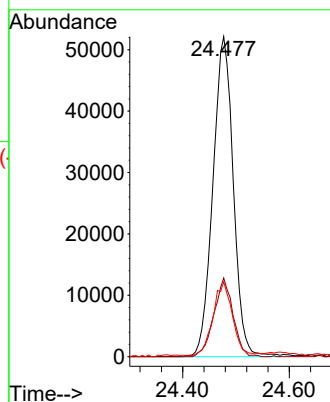
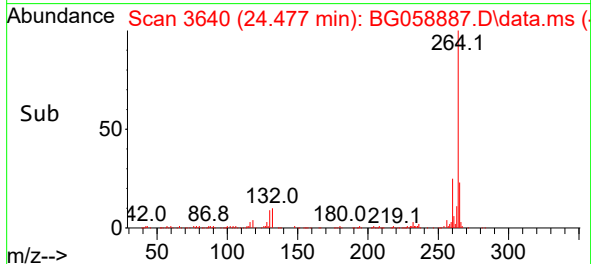
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.6  | 18.2  | 27.2  |
| 265 | 23.4  | 16.4  | 24.6  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/30/2023

Supervised By :mohammad ahmed 08/30/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.543 ng

RT: 27.949 min Scan# 4231

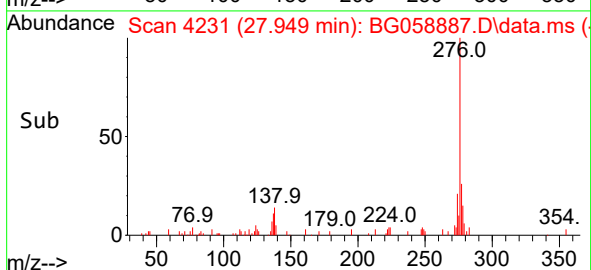
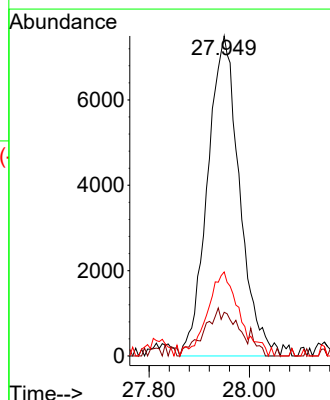
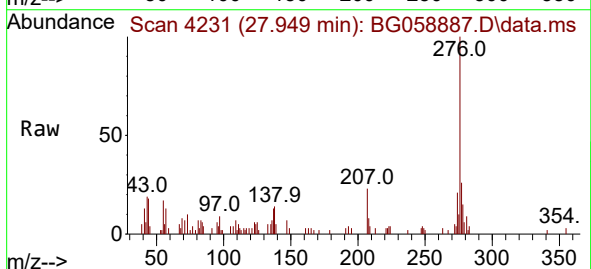
Delta R.T. -0.004 min

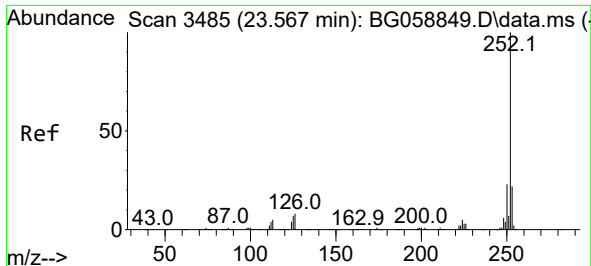
Lab File: BG058887.D

Acq: 29 Aug 2023 14:42

Tgt Ion: 276 Resp: 33191

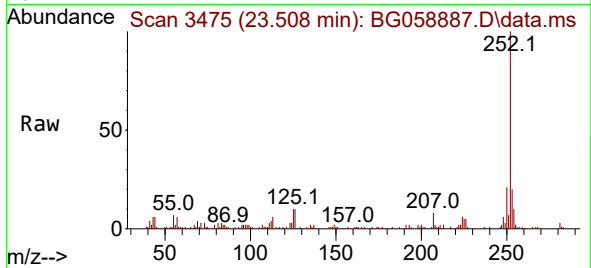
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 15.1  | 6.2   | 9.2#  |
| 277 | 25.8  | 20.4  | 30.6  |





#88  
Benzo(b)fluoranthene  
Concen: 8.382 ng  
RT: 23.508 min Scan# 3485  
Delta R.T. 0.002 min  
Lab File: BG058887.D  
Acq: 29 Aug 2023 14:42

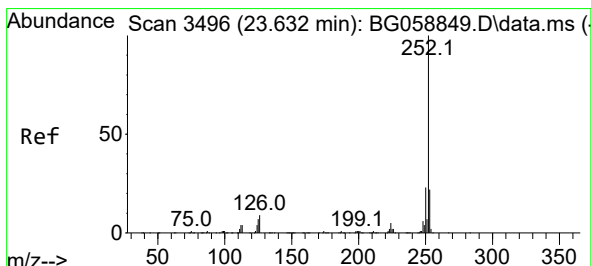
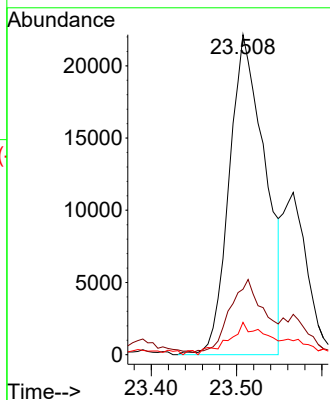
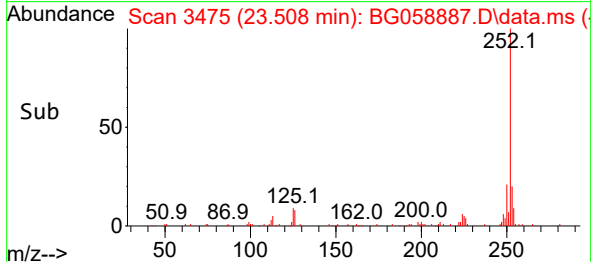
Instrument :  
BNA\_G  
ClientSampleId :  
VNJ-210



Tgt Ion:252 Resp: 64390  
Ion Ratio Lower Upper  
252 100  
253 20.5 18.4 27.6  
125 10.1 6.2 9.2

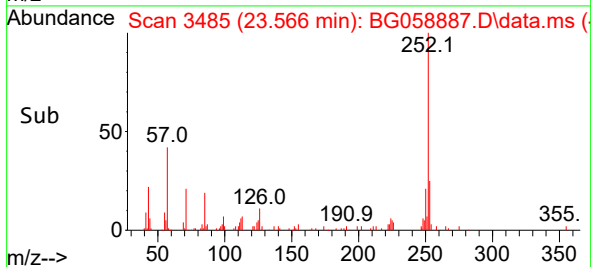
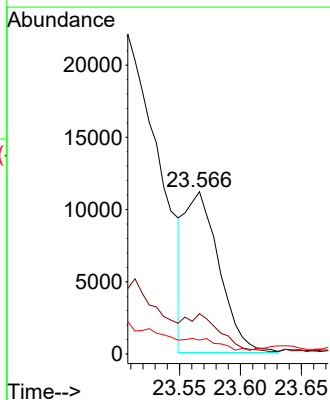
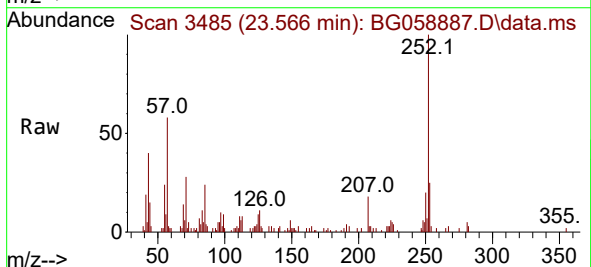
Manual Integrations  
APPROVED

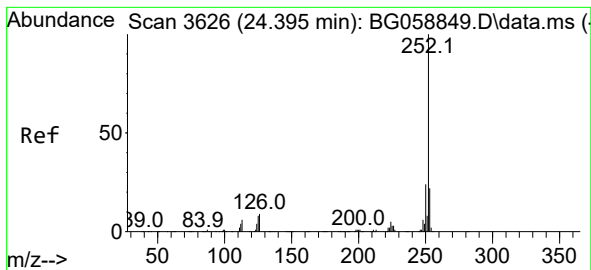
Reviewed By :Yogesh Patel 08/30/2023  
Supervised By :mohammad ahmed 08/30/2023



#89  
Benzo(k)fluoranthene  
Concen: 2.765 ng m  
RT: 23.566 min Scan# 3485  
Delta R.T. -0.004 min  
Lab File: BG058887.D  
Acq: 29 Aug 2023 14:42

Tgt Ion:252 Resp: 21909  
Ion Ratio Lower Upper  
252 100  
253 24.9 17.6 26.4  
125 8.6 6.3 9.5





#90

Benzo(a)pyrene

Concen: 5.775 ng

RT: 24.330 min Scan# 30

Delta R.T. -0.004 min

Lab File: BG058887.D

Acq: 29 Aug 2023 14:42

Instrument :

BNA\_G

ClientSampleId :

VNJ-210

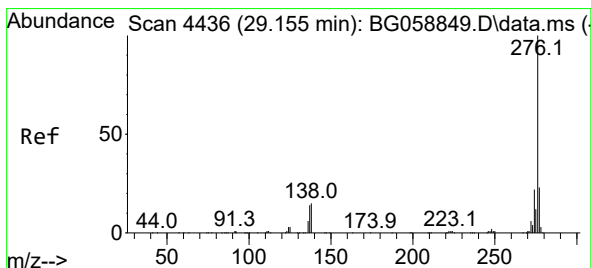
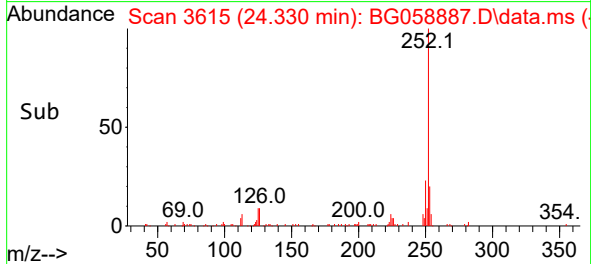
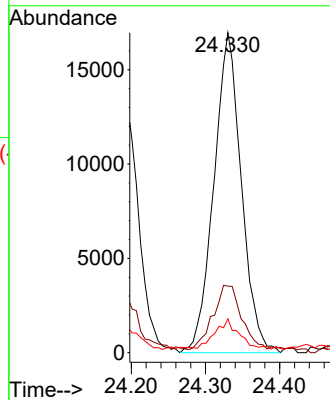
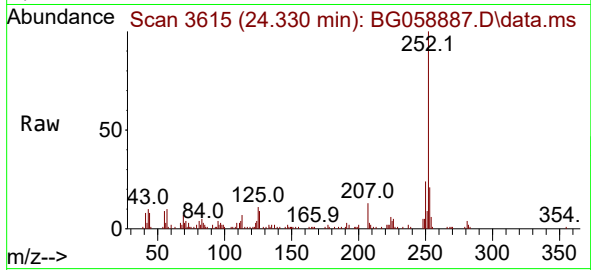
Tgt Ion:252 Resp: 4368  
 Ion Ratio Lower Upper  
 252 100  
 253 20.8 17.5 26.3  
 125 10.6 6.8 10.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/30/2023

Supervised By :mohammad ahmed 08/30/2023



#92

Benzo(g,h,i)perylene

Concen: 4.348 ng

RT: 29.036 min Scan# 4416

Delta R.T. -0.010 min

Lab File: BG058887.D

Acq: 29 Aug 2023 14:42

Tgt Ion:276 Resp: 33467  
 Ion Ratio Lower Upper  
 276 100  
 277 25.3 17.8 26.6  
 138 17.2 11.1 16.7#

