

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG100523\  
 Data File : BG059293.D  
 Acq On : 5 Oct 2023 12:38  
 Operator : MA/JU  
 Sample : 04527-02  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EZYG9

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 10/06/2023  
 Supervised By :mohammad ahmed 10/06/2023

Quant Time: Oct 05 23:39:28 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG092723.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Sep 28 04:33:25 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.232  | 152  | 31645    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 11.075 | 136  | 145264   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.865 | 164  | 86909    | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.615 | 188  | 183295   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.916 | 240  | 158205   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 25.406 | 264  | 195381   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.525  | 96   | 3563     | 4.249  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.966  | 84   | 26041    | 10.644 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.362  | 99   | 85629    | 27.033 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.550  | 67   | 47927    | 23.685 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.750  | 132  | 62818    | 29.502 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.925  | 113  | 58468    | 23.879 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.430  | 128  | 30845    | 30.091 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 10.147 | 143  | 31037    | 30.843 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.676 | 165  | 58072    | 28.092 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.222 | 131  | 47480    | 14.196 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.260 | 166  | 194074   | 30.886 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.565 | 160  | 247969   | 31.441 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 15.059 | 143  | 13225    | 12.053 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.852 | 176  | 184074   | 30.779 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.964 | 200  | 6820     | 7.239  | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.715 | 188  | 271934   | 32.560 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.988 | 212  | 310417   | 35.037 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 25.165 | 264  | 308203   | 32.826 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 8) Phenol                     | 7.391  | 94   | 5356     | 1.700  | ng/u1# | 86       |
| 16) Acetophenone              | 9.078  | 105  | 33607    | 8.862  | ng/u1  | 96       |
| 30) Naphthalene               | 11.122 | 128  | 16003    | 2.055  | ng/u1# | 93       |
| 36) 2-Methylnaphthalene       | 12.709 | 142  | 9381     | 1.839  | ng/u1  | 87       |
| 52) Acenaphthene              | 14.930 | 153  | 21203    | 3.669  | ng/u1  | 91       |
| 56) Dibenzofuran              | 15.259 | 168  | 18088    | 2.361  | ng/u1  | 97       |
| 61) Fluorene                  | 15.911 | 166  | 7840     | 1.219  | ng/u1# | 95       |
| 72) Phenanthrene              | 17.656 | 178  | 386762   | 38.449 | ng/u1  | 98       |
| 74) Anthracene                | 17.750 | 178  | 61099m   | 5.882  | ng/u1  |          |
| 77) Carbazole                 | 18.026 | 167  | 11161    | 1.318  | ng/u1# | 96       |
| 80) Fluoranthene              | 19.654 | 202  | 873734   | 80.055 | ng/u1  | 99       |
| 82) Pyrene                    | 20.018 | 202  | 736358   | 63.696 | ng/u1  | 99       |
| 85) Benzo(a)anthracene        | 21.898 | 228  | 477927   | 42.914 | ng/u1  | 100      |
| 87) Chrysene                  | 21.969 | 228  | 484734   | 46.085 | ng/u1  | 99       |
| 90) Benzo(b)fluoranthene      | 24.283 | 252  | 845145   | 70.624 | ng/u1  | 98       |
| 91) Benzo(k)fluoranthene      | 24.348 | 252  | 285267   | 23.527 | ng/u1  | 97       |
| 93) Benzo(a)pyrene            | 25.241 | 252  | 611625   | 53.877 | ng/u1# | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 29.442 | 276  | 485527m  | 37.782 | ng/u1  |          |
| 95) Dibenzo(a,h)anthracene    | 29.483 | 278  | 132553m  | 12.684 | ng/u1  |          |
| 96) Benzo(g,h,i)perylene      | 30.729 | 276  | 469705m  | 44.953 | ng/u1  |          |
| -----                         |        |      |          |        |        |          |

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

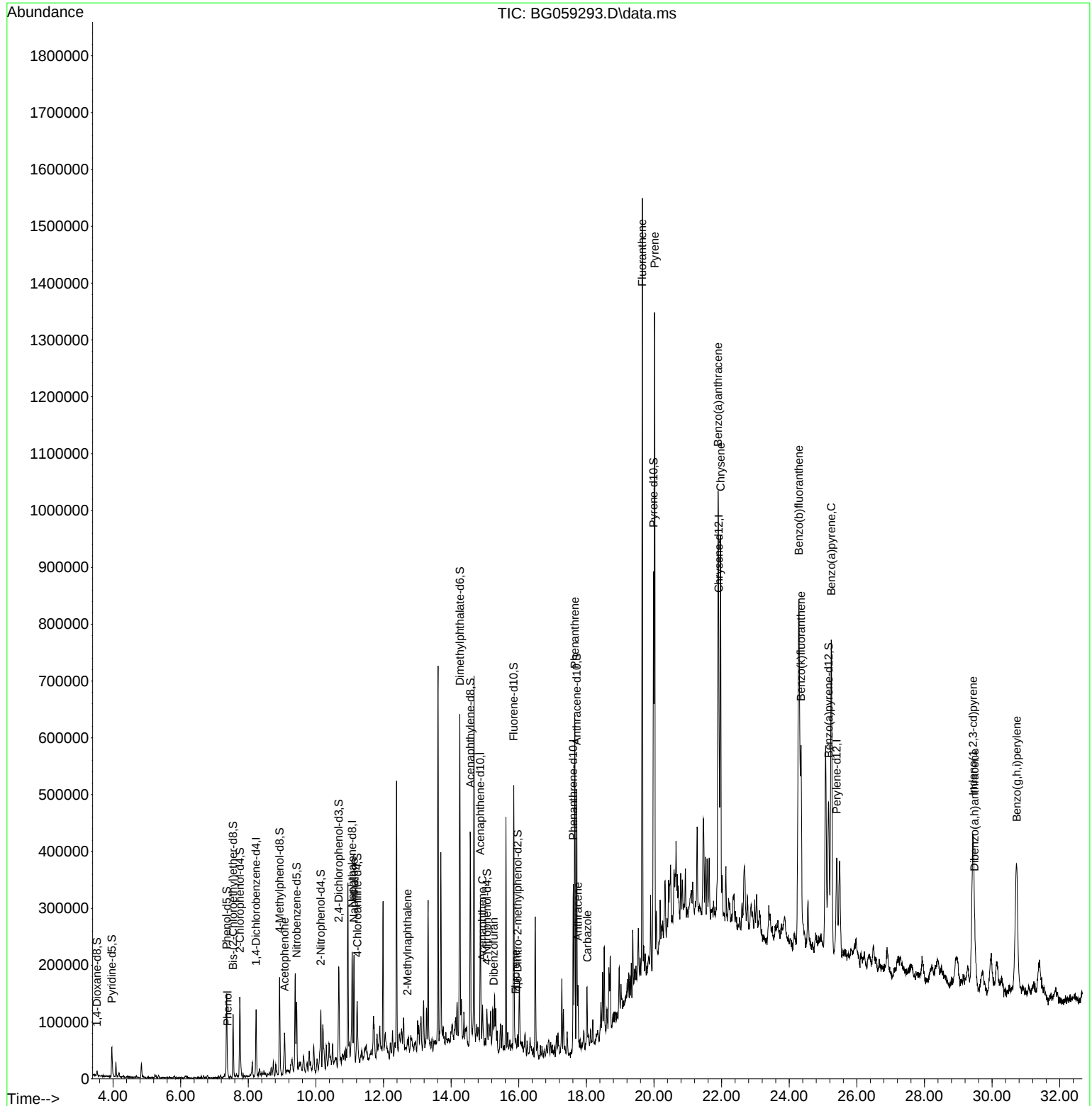
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG100523\  
Data File : BG059293.D  
Acq On : 5 Oct 2023 12:38  
Operator : MA/JU  
Sample : 04527-02  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

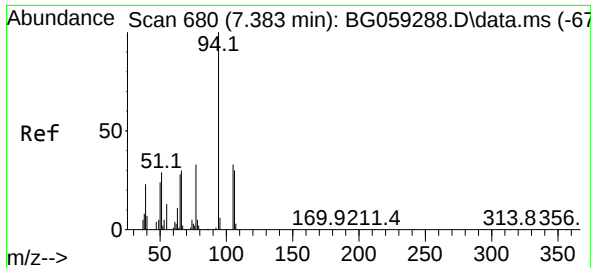
Instrument :  
BNA\_G  
ClientSampleId :  
EZYG9

Quant Time: Oct 05 23:39:28 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG092723.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Sep 28 04:33:25 2023  
Response via : Initial Calibration

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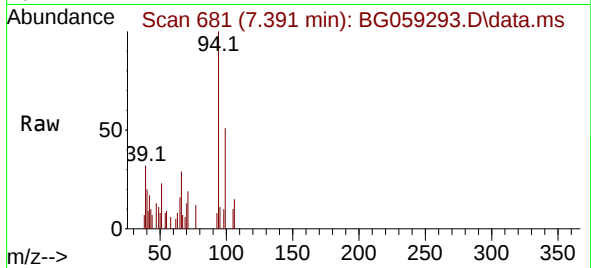
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/06/2023





#8  
Phenol  
Concen: 1.700 ng/ul  
RT: 7.391 min Scan# 681  
Delta R.T. 0.006 min  
Lab File: BG059293.D  
Acq: 5 Oct 2023 12:38

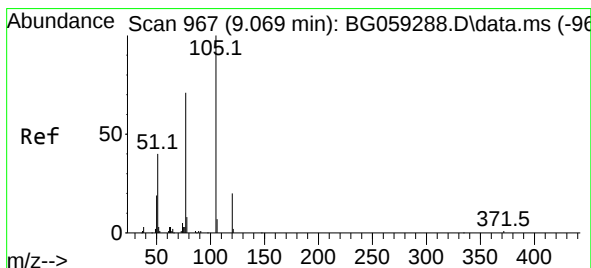
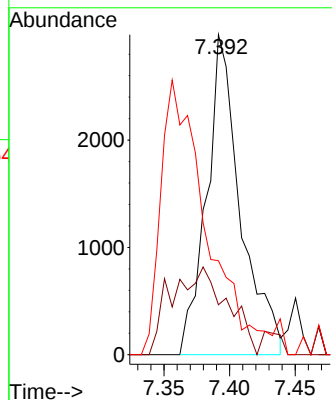
Instrument :  
BNA\_G  
ClientSampleId :  
EZYG9



Tgt Ion: 94 Resp: 5350  
Ion Ratio Lower Upper  
94 100  
65 15.6 23.6 35.4  
66 29.4 24.6 37.0

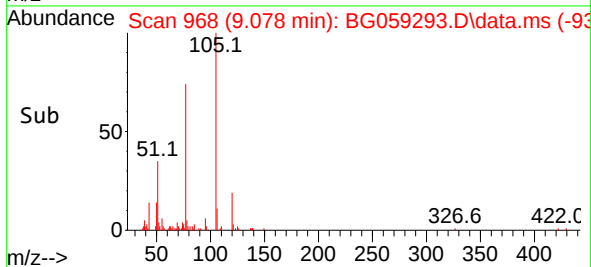
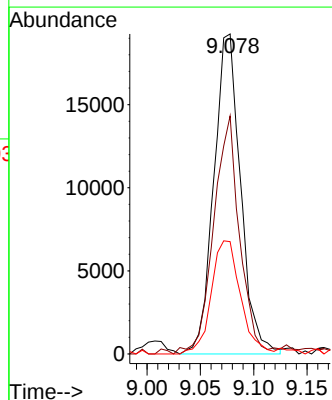
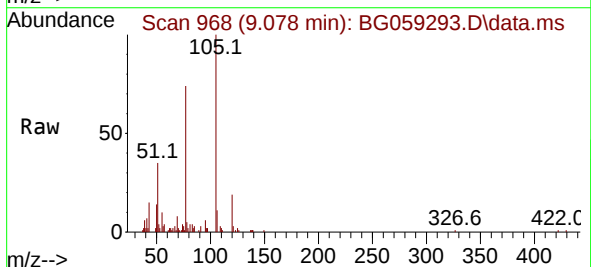
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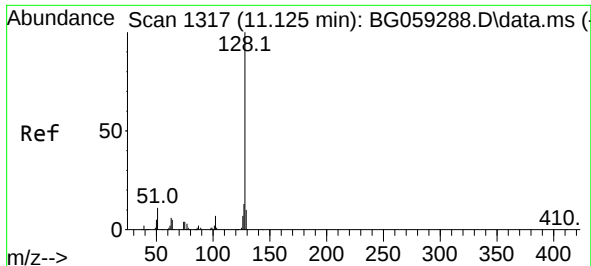
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/06/2023



#16  
Acetophenone  
Concen: 8.862 ng/ul  
RT: 9.078 min Scan# 968  
Delta R.T. 0.001 min  
Lab File: BG059293.D  
Acq: 5 Oct 2023 12:38

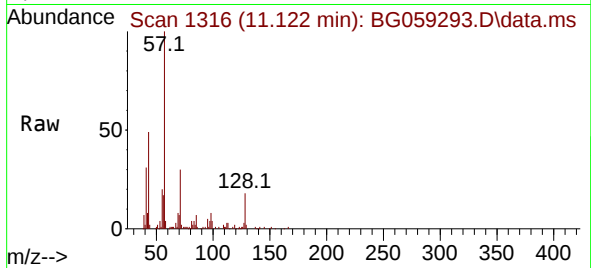
Tgt Ion:105 Resp: 33607  
Ion Ratio Lower Upper  
105 100  
77 74.4 58.8 88.2  
51 35.1 32.6 48.8





#30  
Naphthalene  
Concen: 2.055 ng/ul  
RT: 11.122 min Scan# 1316  
Delta R.T. -0.005 min  
Lab File: BG059293.D  
Acq: 5 Oct 2023 12:38

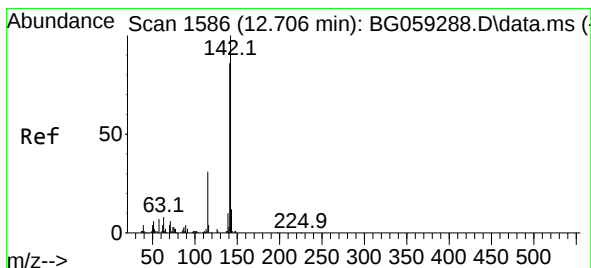
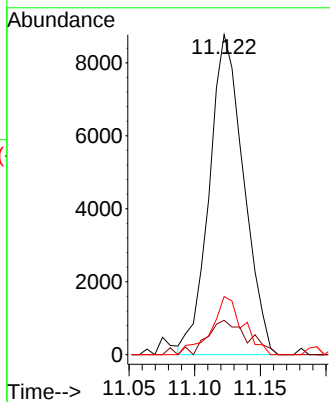
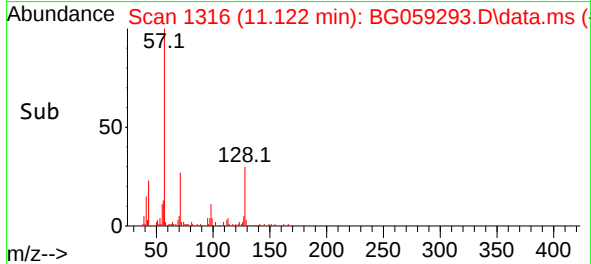
Instrument :  
BNA\_G  
ClientSampleId :  
EZYG9



Tgt Ion:128 Resp: 1600  
Ion Ratio Lower Upper  
128 100  
129 10.7 8.0 12.0  
127 18.1 11.1 16.7

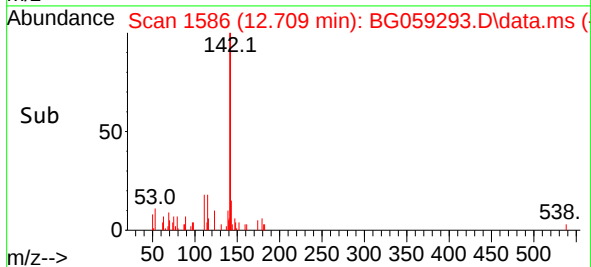
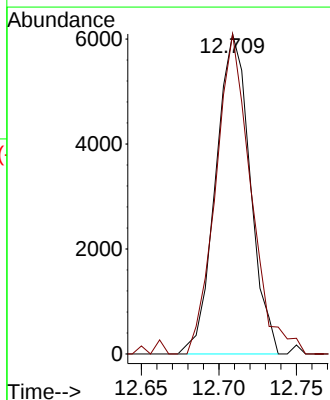
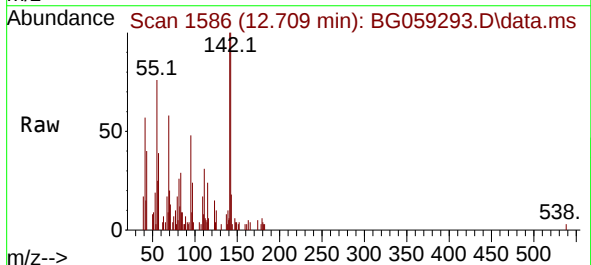
Manual Integrations  
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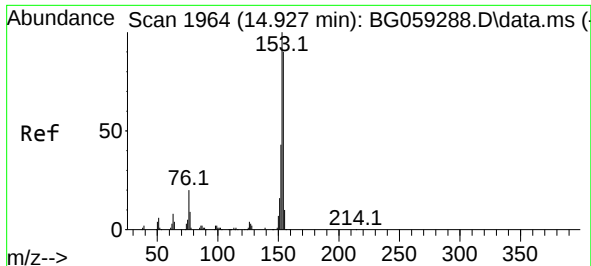
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/06/2023



#36  
2-Methylnaphthalene  
Concen: 1.839 ng/ul  
RT: 12.709 min Scan# 1586  
Delta R.T. -0.005 min  
Lab File: BG059293.D  
Acq: 5 Oct 2023 12:38

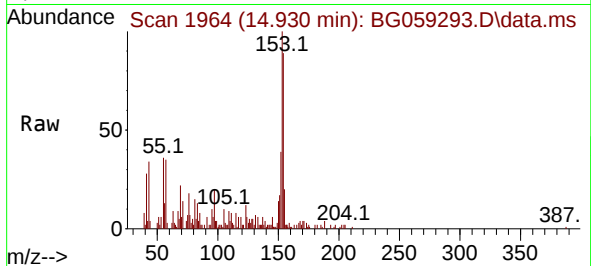
Tgt Ion:142 Resp: 9381  
Ion Ratio Lower Upper  
142 100  
141 100.0 70.2 105.2





#52  
Acenaphthene  
Concen: 3.669 ng/u1  
RT: 14.930 min Scan# 1964  
Delta R.T. -0.005 min  
Lab File: BG059293.D  
Acq: 5 Oct 2023 12:38

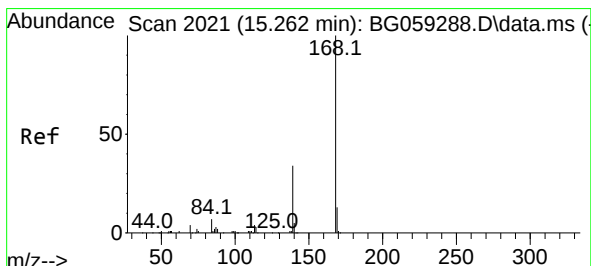
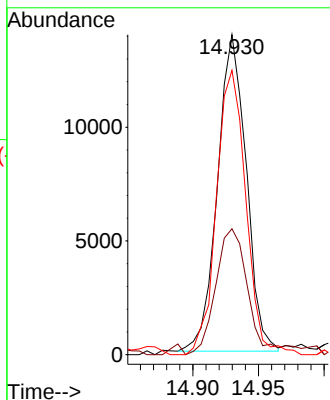
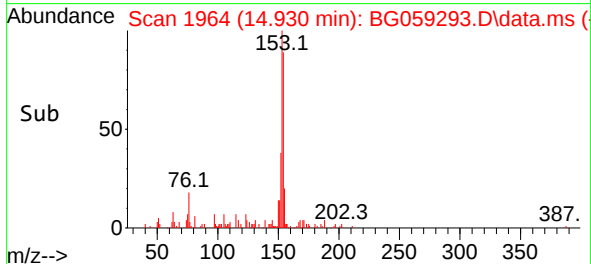
Instrument :  
BNA\_G  
ClientSampleId :  
EZYG9



Tgt Ion:153 Resp: 2120  
Ion Ratio Lower Upper  
153 100  
152 39.3 38.5 57.7  
154 88.8 76.3 114.5

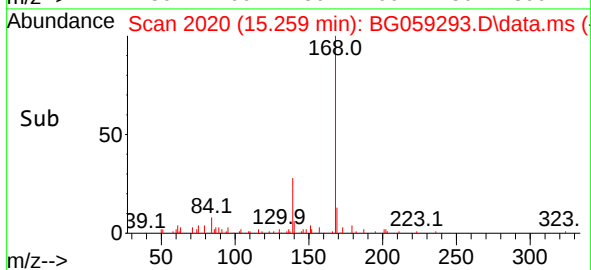
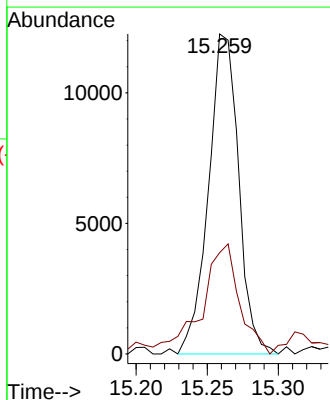
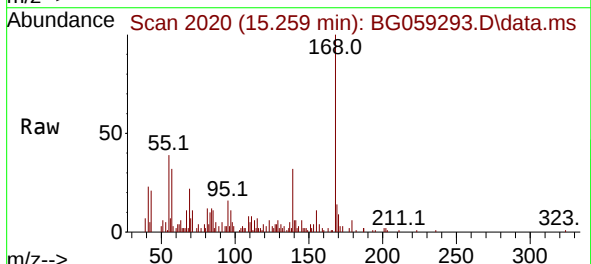
Manual Integrations  
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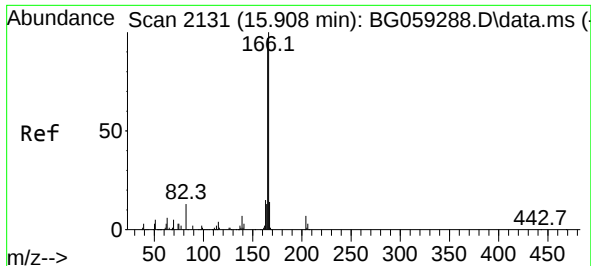
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/06/2023



#56  
Dibenzofuran  
Concen: 2.361 ng/u1  
RT: 15.259 min Scan# 2020  
Delta R.T. -0.005 min  
Lab File: BG059293.D  
Acq: 5 Oct 2023 12:38

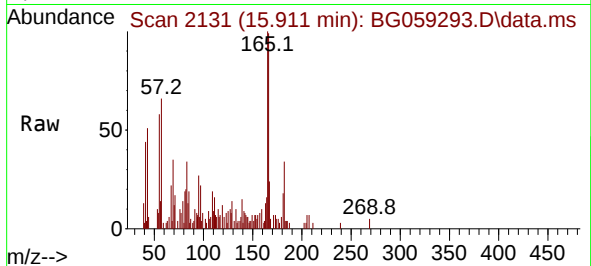
Tgt Ion:168 Resp: 18088  
Ion Ratio Lower Upper  
168 100  
139 31.7 26.6 39.8





#61  
Fluorene  
Concen: 1.219 ng/u1  
RT: 15.911 min Scan# 2131  
Delta R.T. 0.001 min  
Lab File: BG059293.D  
Acq: 5 Oct 2023 12:38

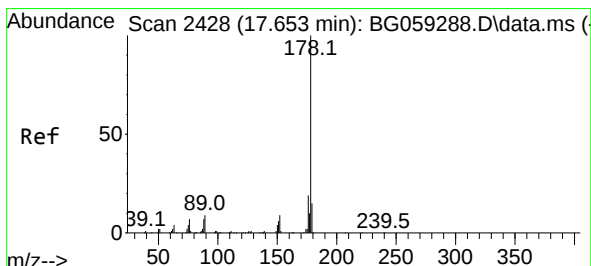
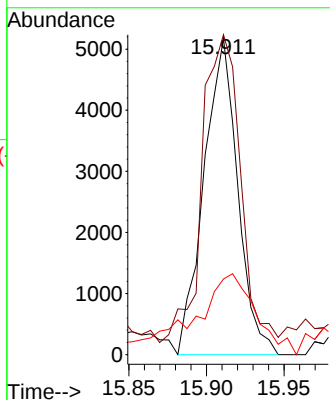
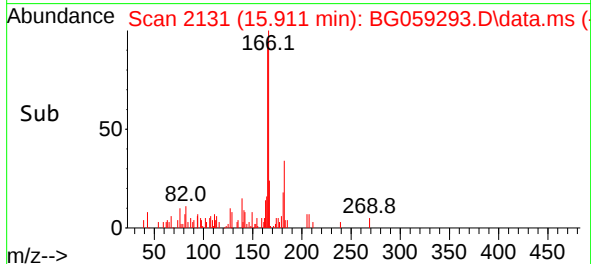
Instrument :  
BNA\_G  
ClientSampleId :  
EZYG9



Tgt Ion:166 Resp: 7840  
Ion Ratio Lower Upper  
166 100  
165 101.1 78.6 118.0  
167 23.9 11.8 17.8

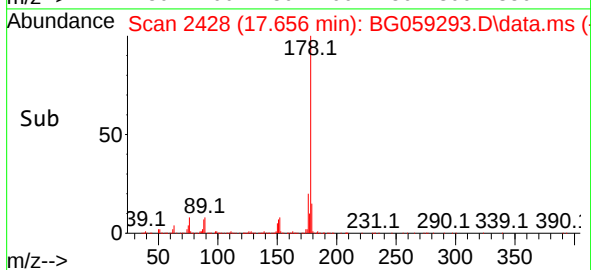
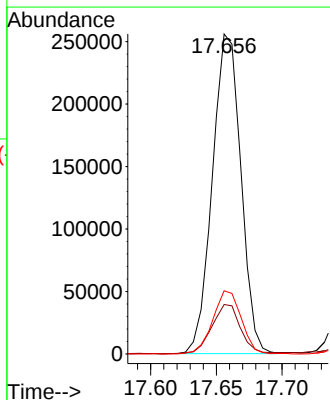
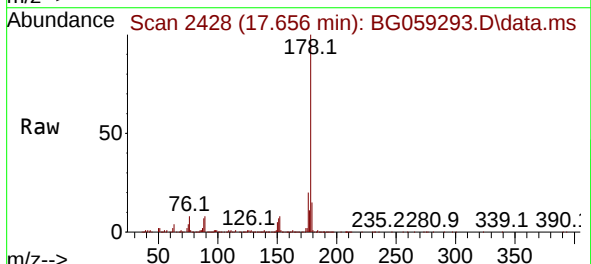
Manual Integrations  
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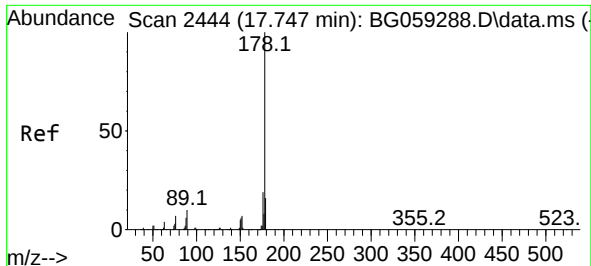
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/06/2023



#72  
Phenanthrene  
Concen: 38.449 ng/u1  
RT: 17.656 min Scan# 2428  
Delta R.T. -0.005 min  
Lab File: BG059293.D  
Acq: 5 Oct 2023 12:38

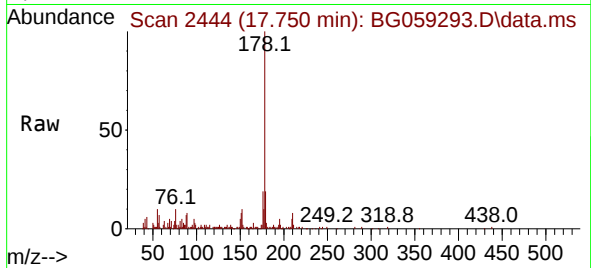
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Ion Ratio Lower Upper  
178 100  
179 15.4 12.3 18.5  
176 19.8 14.6 21.8





#74  
 Anthracene  
 Concen: 5.882 ng/ul m  
 RT: 17.750 min Scan# 2444  
 Delta R.T. -0.005 min  
 Lab File: BG059293.D  
 Acq: 5 Oct 2023 12:38

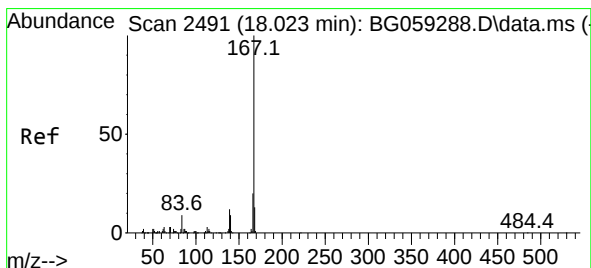
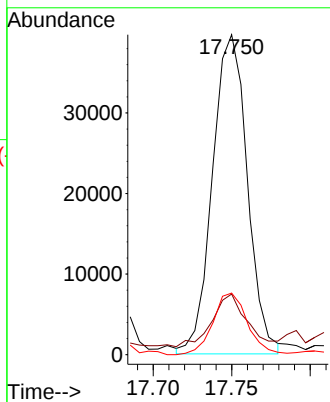
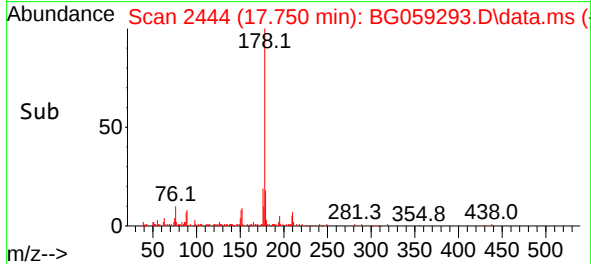
Instrument :  
 BNA\_G  
 ClientSampleId :  
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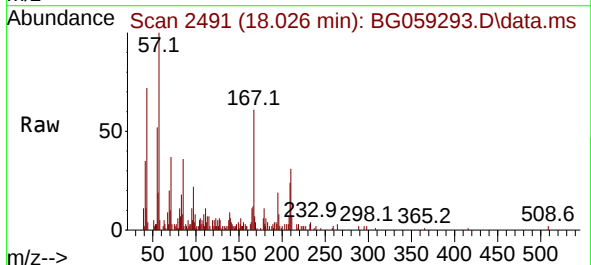
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 Ion Ratio Lower Upper  
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 179 18.9 12.0 18.0  
 176 19.2 14.5 21.7

Manual Integrations  
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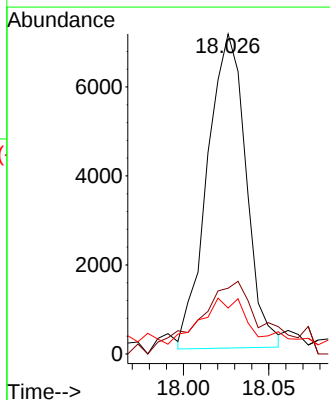
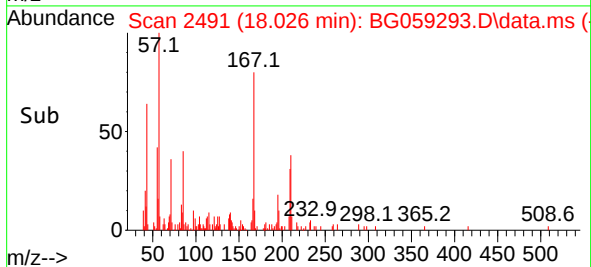
Reviewed By :Yogesh Patel 10/06/2023  
 Supervised By :mohammad ahmed 10/06/2023

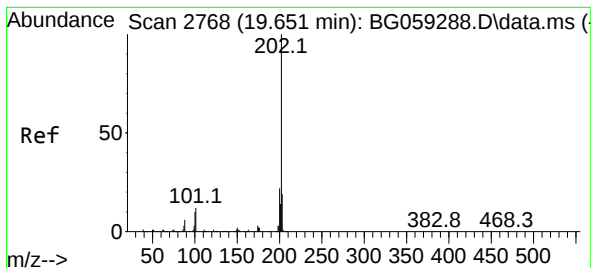


#77  
 Carbazole  
 Concen: 1.318 ng/ul  
 RT: 18.026 min Scan# 2491  
 Delta R.T. -0.005 min  
 Lab File: BG059293.D  
 Acq: 5 Oct 2023 12:38



Tgt Ion:167 Resp: 11161  
 Ion Ratio Lower Upper  
 167 100  
 166 20.5 17.4 26.0  
 139 14.4 9.0 13.4





#80

Fluoranthene

Concen: 80.055 ng/u1

RT: 19.654 min Scan# 21

Delta R.T. -0.005 min

Lab File: BG059293.D

Acq: 5 Oct 2023 12:38

Instrument :

BNA\_G

ClientSampleId :

EZYG9

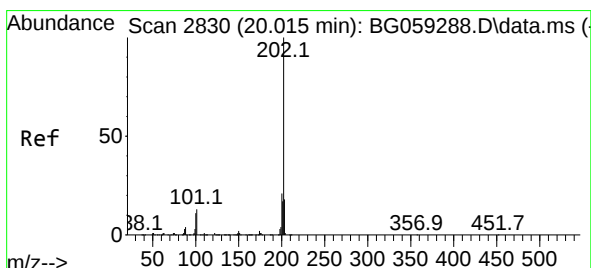
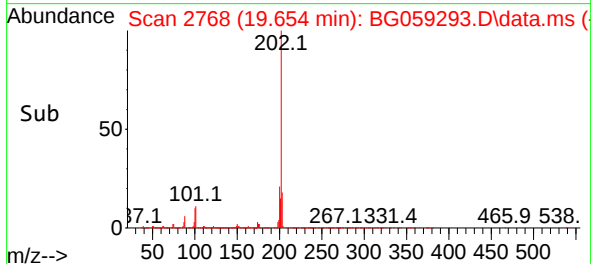
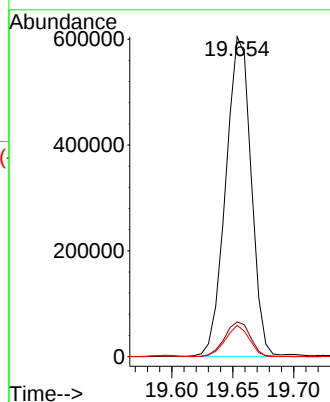
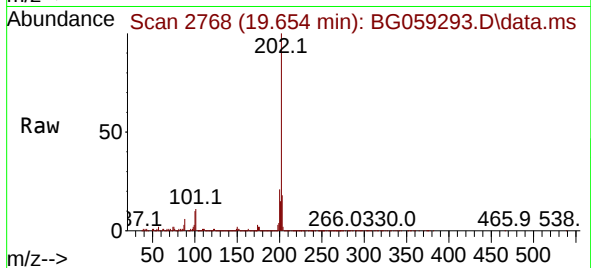
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 Ion Ratio Lower Upper  
 202 100  
 101 10.9 8.2 12.4  
 100 9.8 8.2 12.2

Manual Integrations

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Reviewed By :Yogesh Patel 10/06/2023

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#82

Pyrene

Concen: 63.696 ng/u1

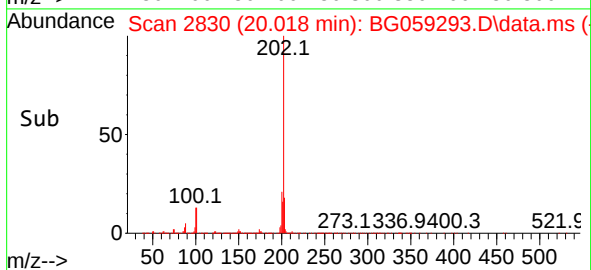
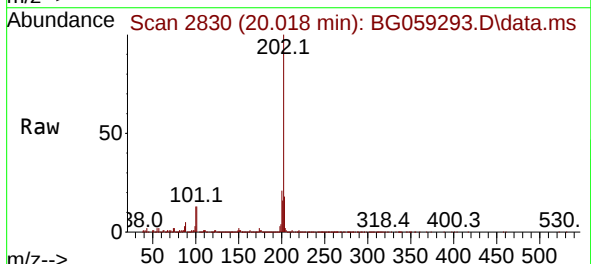
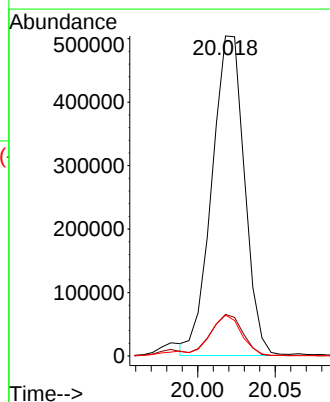
RT: 20.018 min Scan# 2830

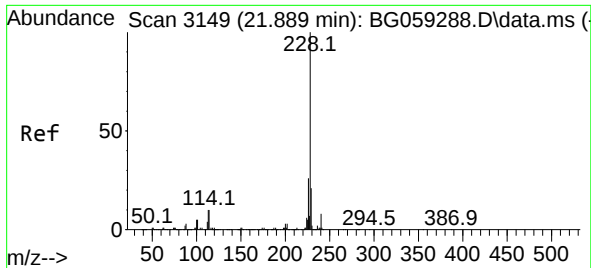
Delta R.T. -0.005 min

Lab File: BG059293.D

Acq: 5 Oct 2023 12:38

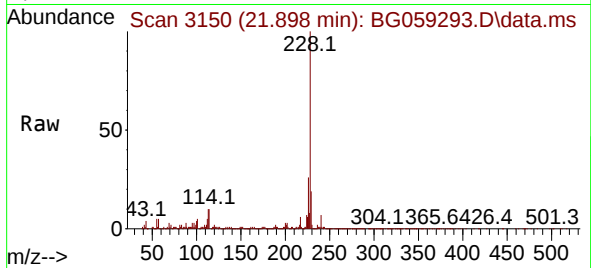
Tgt Ion:202 Resp: 736358  
 Ion Ratio Lower Upper  
 202 100  
 101 13.0 10.2 15.4  
 100 12.7 9.6 14.4





#85  
Benzo(a)anthracene  
Concen: 42.914 ng/uI  
RT: 21.898 min Scan# 3149  
Delta R.T. -0.005 min  
Lab File: BG059293.D  
Acq: 5 Oct 2023 12:38

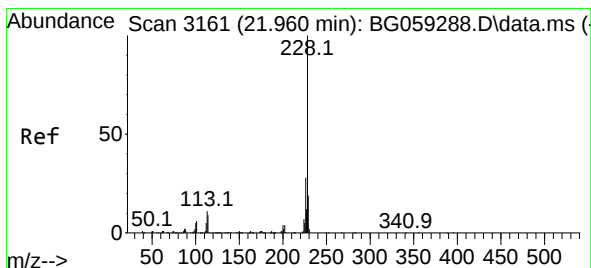
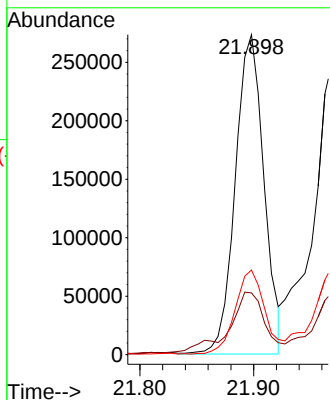
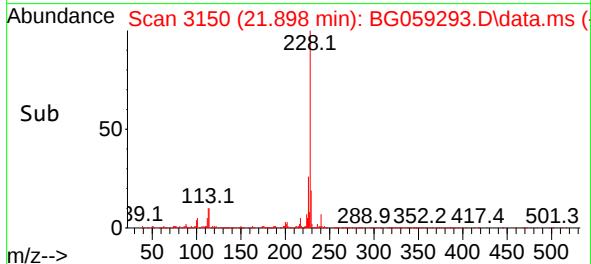
Instrument :  
BNA\_G  
ClientSampleId :  
EZYG9



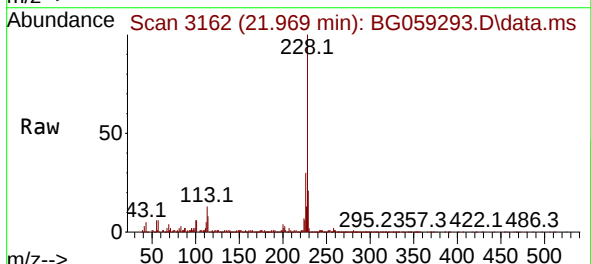
Tgt Ion:228 Resp: 477927  
Ion Ratio Lower Upper  
228 100  
229 19.3 15.5 23.3  
226 26.5 21.4 32.2

Manual Integrations  
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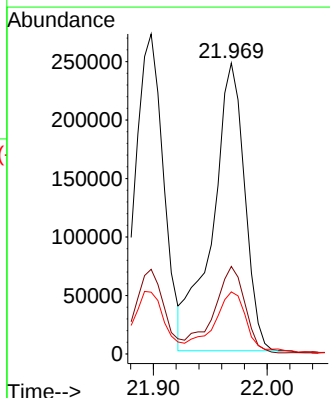
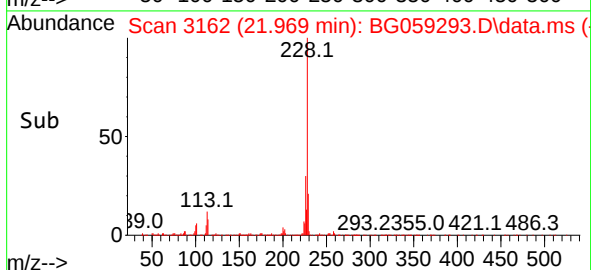
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/06/2023

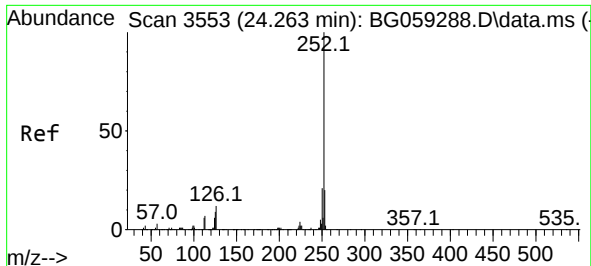


#87  
Chrysene  
Concen: 46.085 ng/uI  
RT: 21.969 min Scan# 3162  
Delta R.T. -0.005 min  
Lab File: BG059293.D  
Acq: 5 Oct 2023 12:38



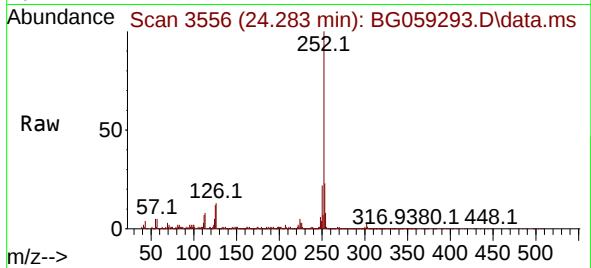
Tgt Ion:228 Resp: 484734  
Ion Ratio Lower Upper  
228 100  
226 30.1 24.2 36.4  
229 21.3 16.2 24.2





#90  
Benzo(b)fluoranthene  
Concen: 70.624 ng/ul  
RT: 24.283 min Scan# 3553  
Delta R.T. 0.001 min  
Lab File: BG059293.D  
Acq: 5 Oct 2023 12:38

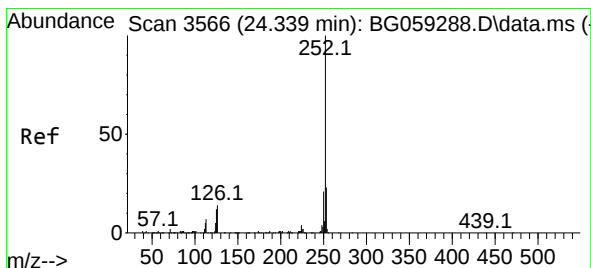
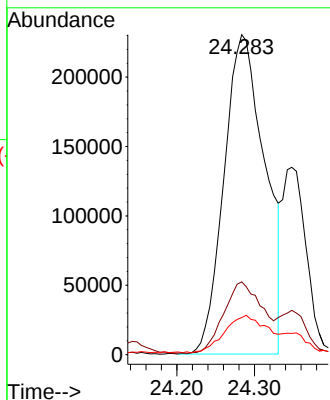
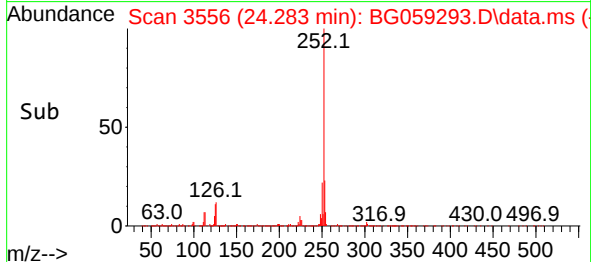
Instrument :  
BNA\_G  
ClientSampleId :  
EZYG9



Tgt Ion:252 Resp: 84514  
Ion Ratio Lower Upper  
252 100  
253 22.7 18.0 27.0  
125 11.6 8.1 12.1

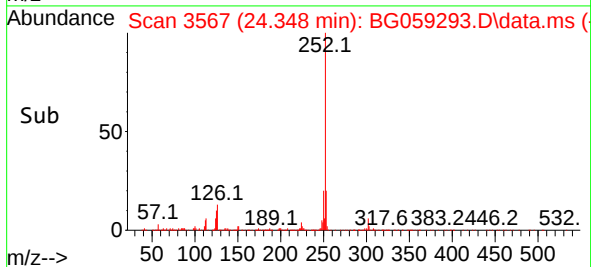
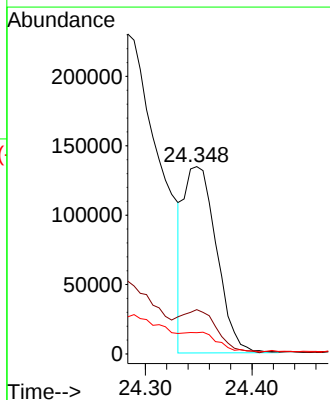
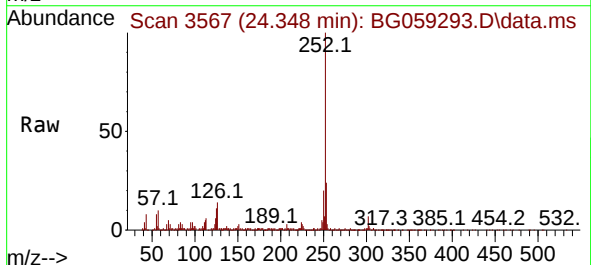
Manual Integrations  
APPROVED

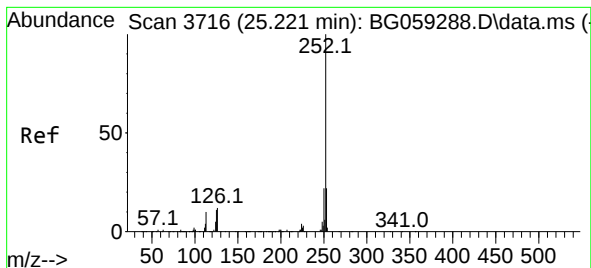
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/06/2023



#91  
Benzo(k)fluoranthene  
Concen: 23.527 ng/ul  
RT: 24.348 min Scan# 3567  
Delta R.T. -0.011 min  
Lab File: BG059293.D  
Acq: 5 Oct 2023 12:38

Tgt Ion:252 Resp: 285267  
Ion Ratio Lower Upper  
252 100  
253 23.7 17.6 26.4  
125 11.4 8.1 12.1





#93

Benzo(a)pyrene

Concen: 53.877 ng/ul

RT: 25.241 min Scan# 31

Delta R.T. 0.001 min

Lab File: BG059293.D

Acq: 5 Oct 2023 12:38

Instrument :

BNA\_G

ClientSampleId :

EZYG9

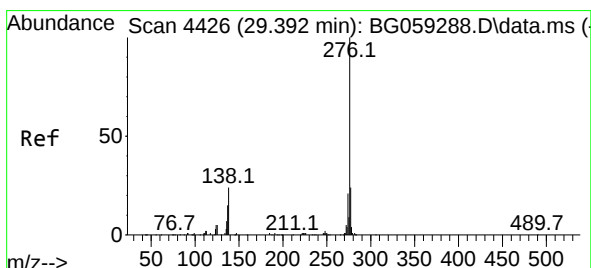
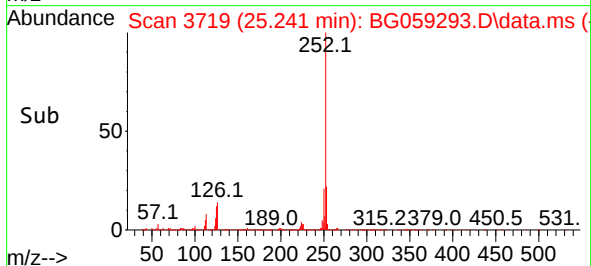
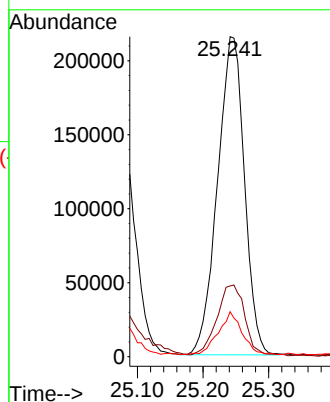
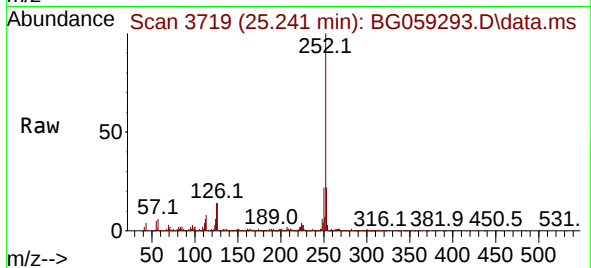
Tgt Ion:252 Resp: 61162  
 Ion Ratio Lower Upper  
 252 100  
 253 22.1 17.2 25.8  
 125 14.1 9.4 14.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/06/2023

Supervised By :mohammad ahmed 10/06/2023



#94

Indeno(1,2,3-cd)pyrene

Concen: 37.782 ng/ul m

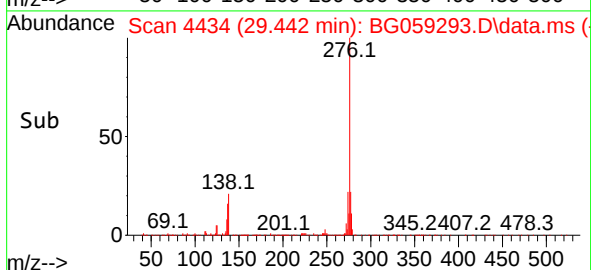
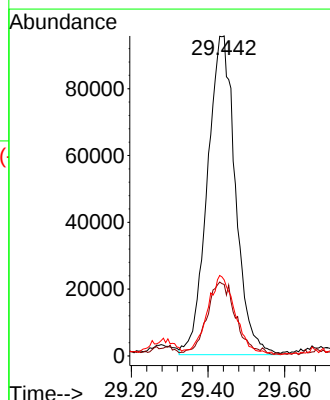
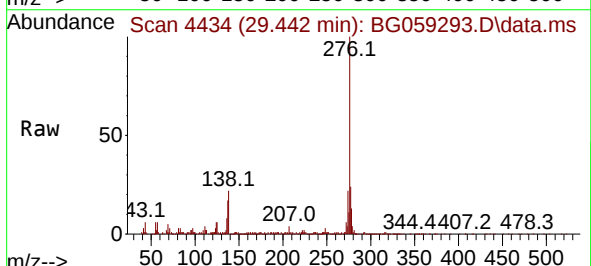
RT: 29.442 min Scan# 4434

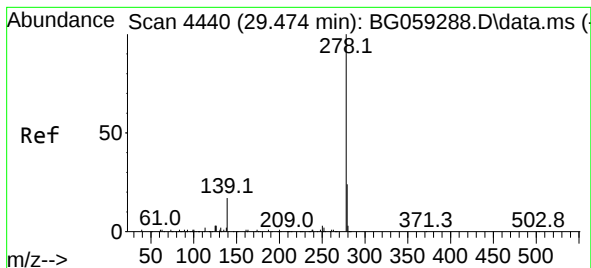
Delta R.T. 0.006 min

Lab File: BG059293.D

Acq: 5 Oct 2023 12:38

Tgt Ion:276 Resp: 485527  
 Ion Ratio Lower Upper  
 276 100  
 138 22.4 17.0 25.6  
 277 23.7 18.6 28.0





#95

Dibenzo(a,h)anthracene

Concen: 12.684 ng/ul m

RT: 29.483 min Scan# 4440

Delta R.T. -0.029 min

Lab File: BG059293.D

Acq: 5 Oct 2023 12:38

Instrument :

BNA\_G

ClientSampleId :

EZYG9

Tgt Ion:278 Resp: 13255

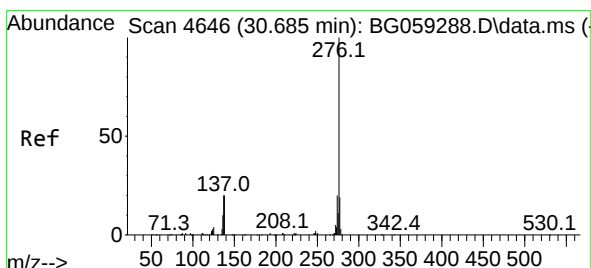
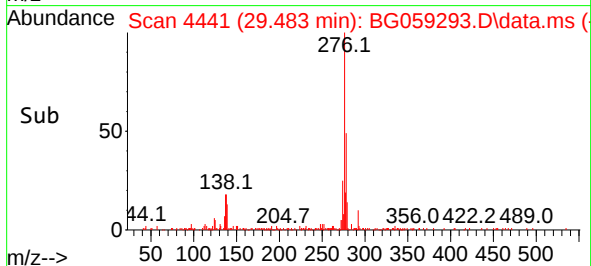
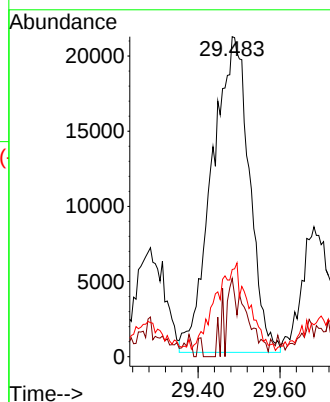
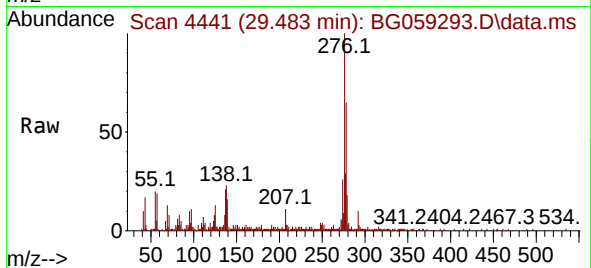
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 24.5  | 12.1  | 18.1  |
| 279 | 27.3  | 18.6  | 27.8  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/06/2023

Supervised By :mohammad ahmed 10/06/2023



#96

Benzo(g,h,i)perylene

Concen: 44.953 ng/ul m

RT: 30.729 min Scan# 4653

Delta R.T. 0.018 min

Lab File: BG059293.D

Acq: 5 Oct 2023 12:38

Tgt Ion:276 Resp: 469705

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 21.2  | 16.6  | 25.0  |
| 277 | 21.6  | 20.0  | 30.0  |

