

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG120722\  
 Data File : BG055924.D  
 Acq On : 7 Dec 2022 21:50  
 Operator : CG/JU  
 Sample : N5900-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CL-02-120622

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 12/08/2022  
 Supervised By : mohammad ahmed 12/08/2022

Quant Time: Dec 08 05:10:06 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111622.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 07 05:04:10 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.161  | 152  | 36364    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.993 | 136  | 146771   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.794 | 164  | 95342    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.538 | 188  | 205943   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.821 | 240  | 176989   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 25.176 | 264  | 188639   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.693  | 112  | 252651   | 125.583 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.321  | 99   | 331800   | 123.896 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.336  | 82   | 216677   | 78.029  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.287 | 330  | 151442   | 112.803 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.419 | 172  | 468626   | 73.636  | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.129 | 244  | 605493   | 68.426  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 52) Acenaphthene              | 14.859 | 154  | 19281    | 3.317   | ng    | 98       |
| 55) Dibenzofuran              | 15.194 | 168  | 17946    | 2.002   | ng    | 98       |
| 58) Fluorene                  | 15.840 | 166  | 24974    | 3.487   | ng    | 96       |
| 71) Phenanthrene              | 17.579 | 178  | 195353   | 17.578  | ng    | 98       |
| 72) Anthracene                | 17.673 | 178  | 41750    | 3.866   | ng    | 97       |
| 75) Fluoranthene              | 19.583 | 202  | 311779   | 23.060  | ng    | 100      |
| 78) Pyrene                    | 19.941 | 202  | 280745   | 23.434  | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.798 | 228  | 165629   | 13.587  | ng    | 98       |
| 83) Chrysene                  | 21.868 | 228  | 163317m  | 14.073  | ng    |          |
| 84) Bis(2-ethylhexyl)phtha... | 21.668 | 149  | 60295    | 8.946   | ng    | # 98     |
| 87) Indeno(1,2,3-cd)pyrene    | 29.036 | 276  | 56409    | 3.650   | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 24.107 | 252  | 188211   | 15.320  | ng    | # 92     |
| 89) Benzo(k)fluoranthene      | 24.160 | 252  | 89042m   | 7.271   | ng    |          |
| 90) Benzo(a)pyrene            | 25.017 | 252  | 137431   | 13.036  | ng    | # 92     |
| 92) Benzo(g,h,i)perylene      | 30.258 | 276  | 56353m   | 4.427   | ng    |          |
| -----                         |        |      |          |         |       |          |

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

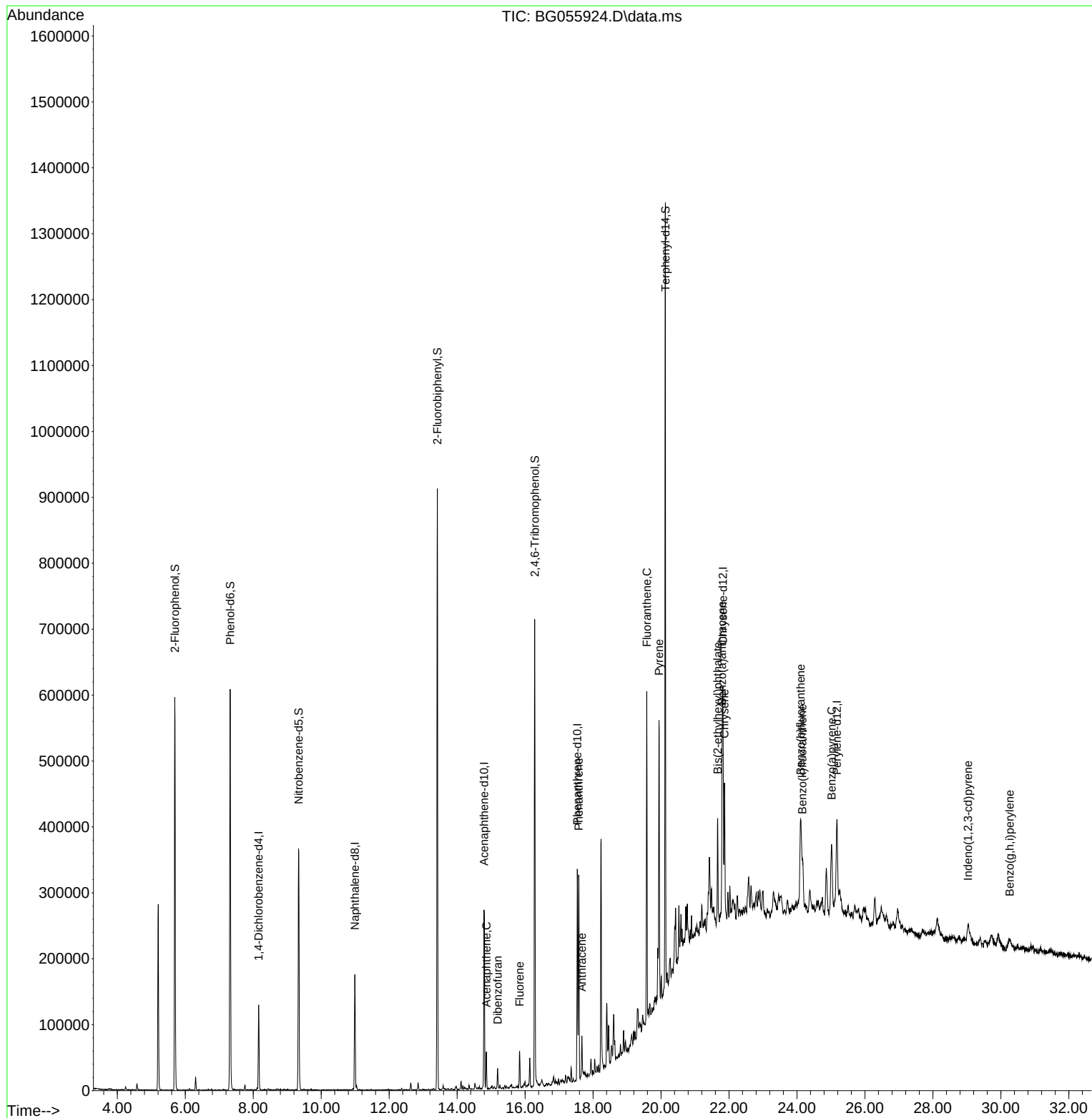
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG120722\  
Data File : BG055924.D  
Acq On : 7 Dec 2022 21:50  
Operator : CG/JU  
Sample : N5900-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

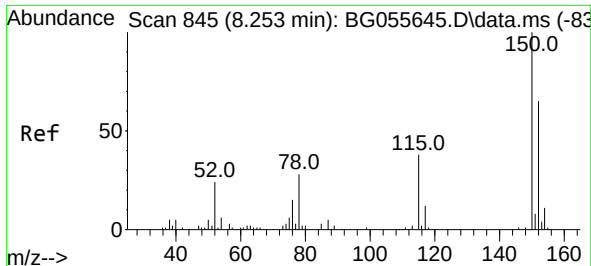
Instrument :  
BNA\_G  
ClientSampleId :  
CL-02-120622

Quant Time: Dec 08 05:10:06 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111622.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 07 05:04:10 2022  
Response via : Initial Calibration

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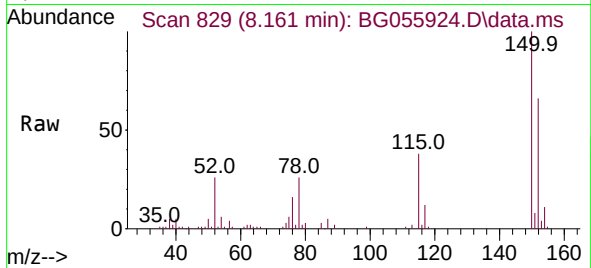
Reviewed By :Christian Giraldo 12/08/2022  
Supervised By :mohammad ahmed 12/08/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.161 min Scan# 81  
Delta R.T. -0.001 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

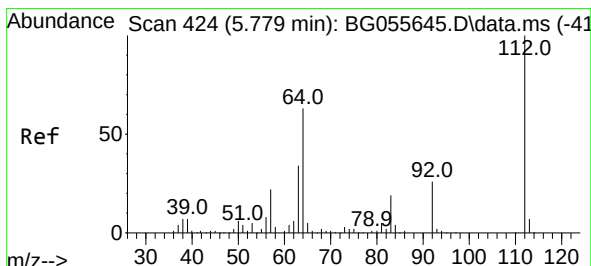
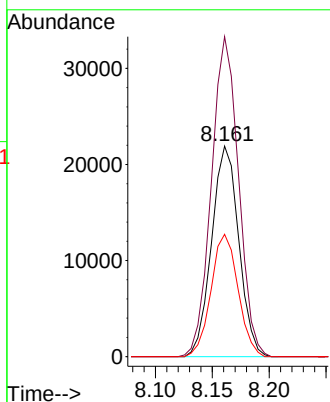
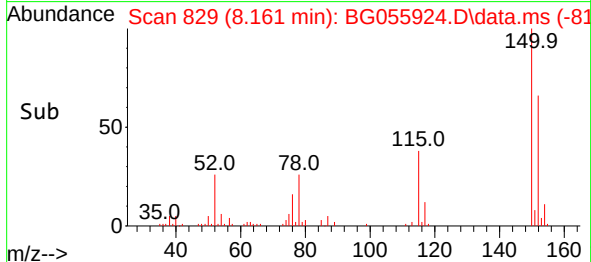
Instrument :  
BNA\_G  
ClientSampleId :  
CL-02-120622



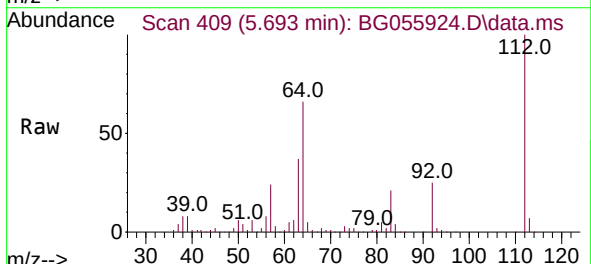
Tgt Ion:152 Resp: 36364  
Ion Ratio Lower Upper  
152 100  
150 152.1 123.0 184.6  
115 58.2 47.0 70.4

Manual Integrations  
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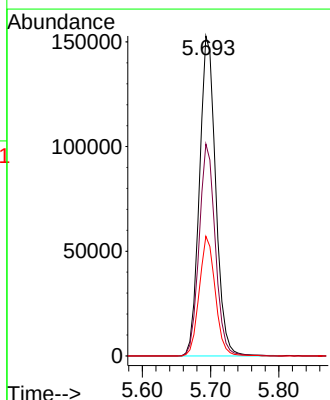
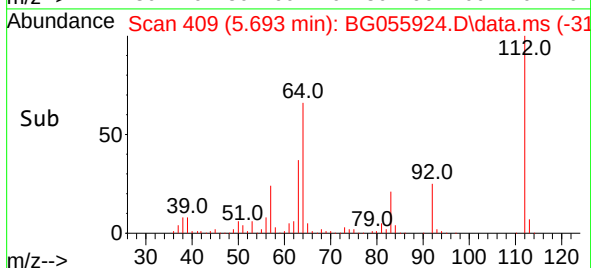
Reviewed By :Christian Giraldo 12/08/2022  
Supervised By :mohammad ahmed 12/08/2022

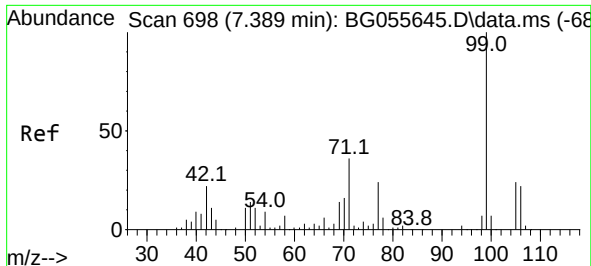


#5  
2-Fluorophenol  
Concen: 125.583 ng  
RT: 5.693 min Scan# 409  
Delta R.T. -0.001 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50



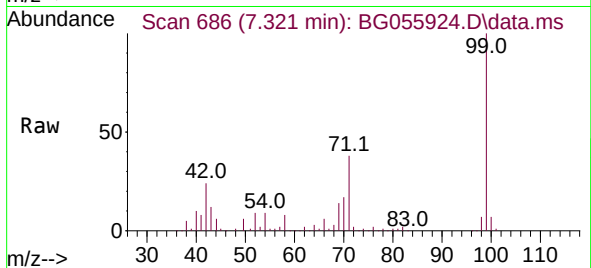
Tgt Ion:112 Resp: 252651  
Ion Ratio Lower Upper  
112 100  
64 66.2 50.6 76.0  
63 37.4 27.5 41.3





#7  
Phenol-d6  
Concen: 123.896 ng  
RT: 7.321 min Scan# 686  
Delta R.T. -0.001 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

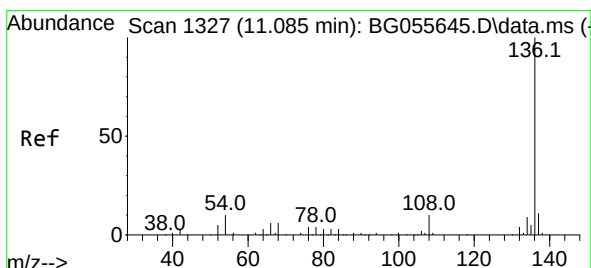
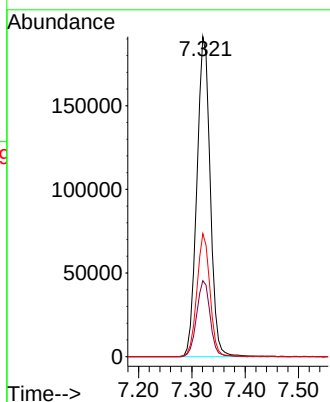
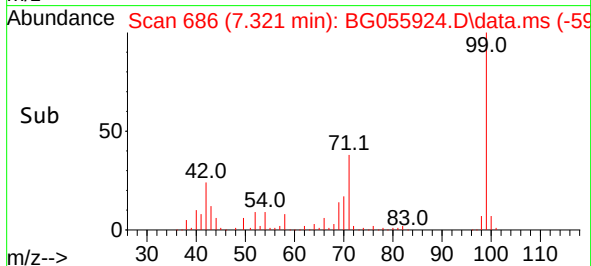
Instrument :  
BNA\_G  
ClientSampleId :  
CL-02-120622



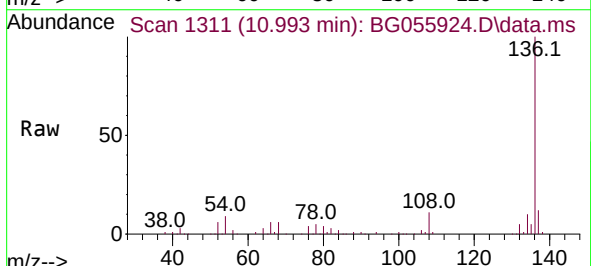
Tgt Ion: 99 Resp: 331800  
Ion Ratio Lower Upper  
99 100  
42 23.7 18.0 27.0  
71 38.4 29.0 43.6

Manual Integrations  
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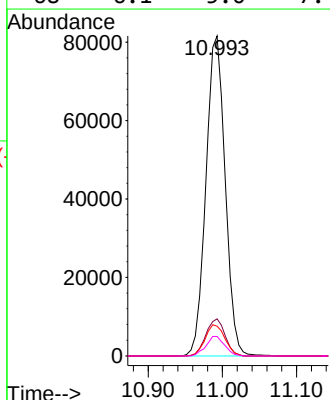
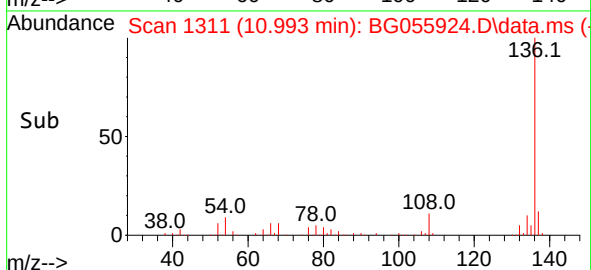
Reviewed By :Christian Giraldo 12/08/2022  
Supervised By :mohammad ahmed 12/08/2022

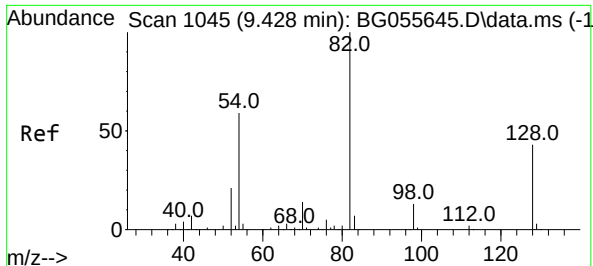


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.993 min Scan# 1311  
Delta R.T. -0.001 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50



Tgt Ion:136 Resp: 146771  
Ion Ratio Lower Upper  
136 100  
137 11.6 9.0 13.6  
54 9.3 7.8 11.6  
68 6.1 5.0 7.4





#23

Nitrobenzene-d5

Concen: 78.029 ng

RT: 9.336 min Scan# 1045

Delta R.T. -0.007 min

Lab File: BG055924.D

Acq: 7 Dec 2022 21:50

Instrument :

BNA\_G

ClientSampleId :

CL-02-120622

Tgt Ion: 82 Resp: 21667

Ion Ratio Lower Upper

82 100

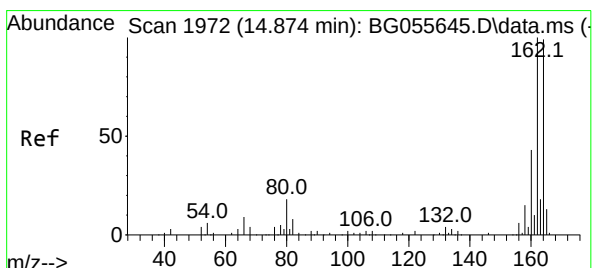
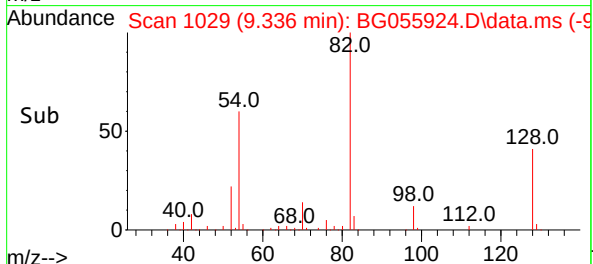
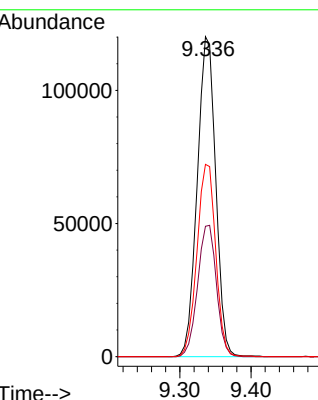
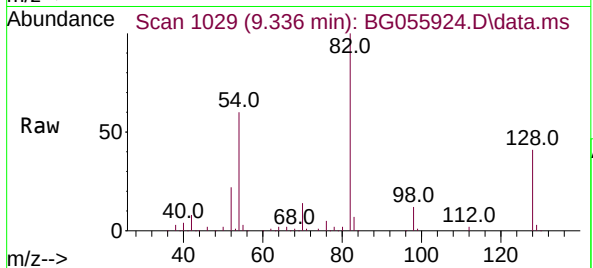
128 40.7 34.1 51.1

54 60.1 47.3 70.9

Manual Integrations

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Reviewed By :Christian Giraldo 12/08/2022  
Supervised By :mohammad ahmed 12/08/2022



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.794 min Scan# 1958

Delta R.T. -0.007 min

Lab File: BG055924.D

Acq: 7 Dec 2022 21:50

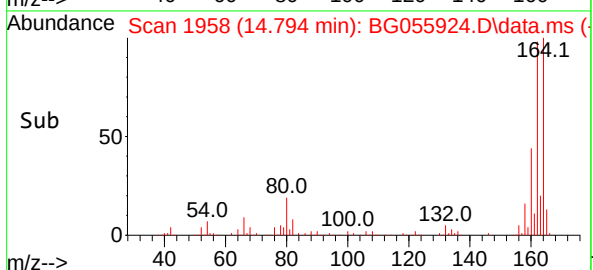
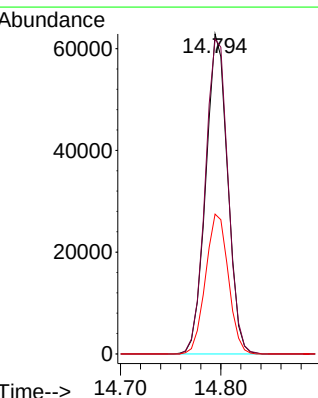
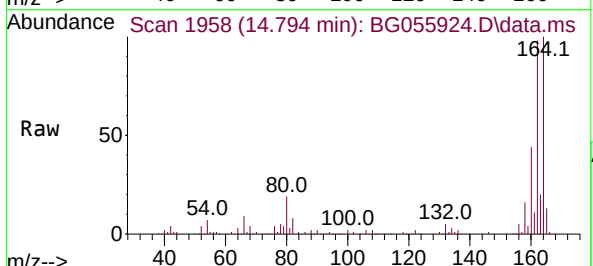
Tgt Ion:164 Resp: 95342

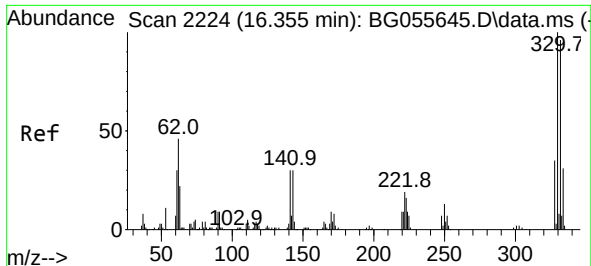
Ion Ratio Lower Upper

164 100

162 98.3 81.1 121.7

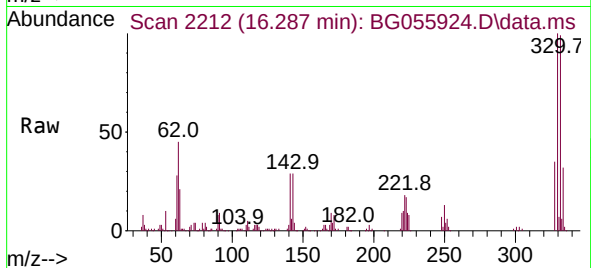
160 43.7 34.8 52.2





#42  
2,4,6-Tribromophenol  
Concen: 112.803 ng  
RT: 16.287 min Scan# 21  
Delta R.T. -0.001 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

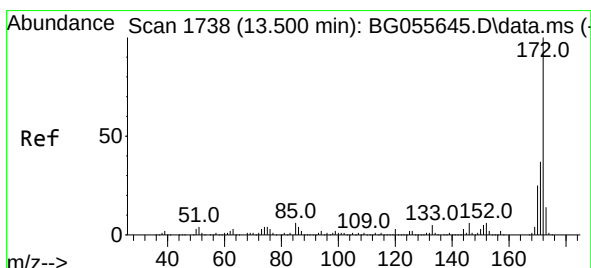
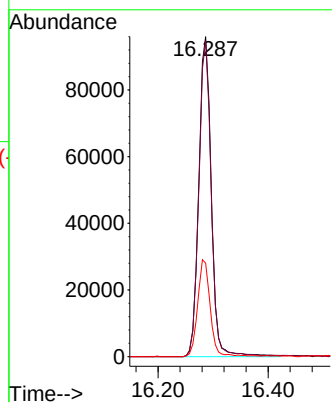
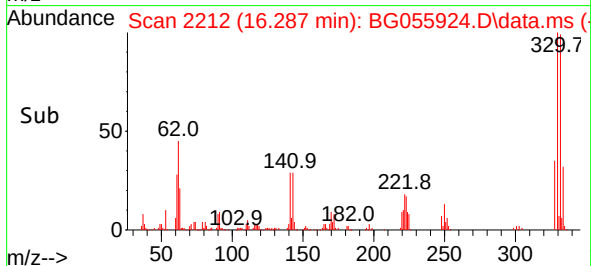
Instrument :  
BNA\_G  
ClientSampleId :  
CL-02-120622



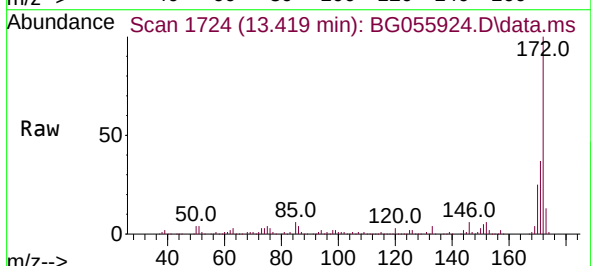
Tgt Ion:330 Resp: 151442  
Ion Ratio Lower Upper  
330 100  
332 97.2 77.8 116.8  
141 30.5 23.9 35.9

Manual Integrations  
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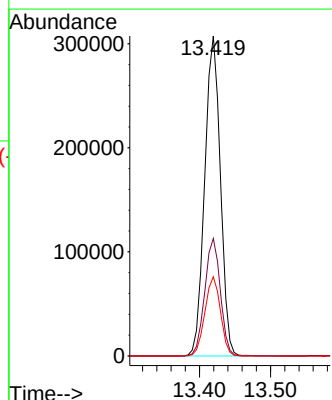
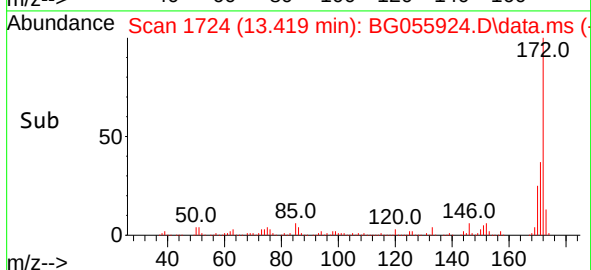
Reviewed By :Christian Giraldo 12/08/2022  
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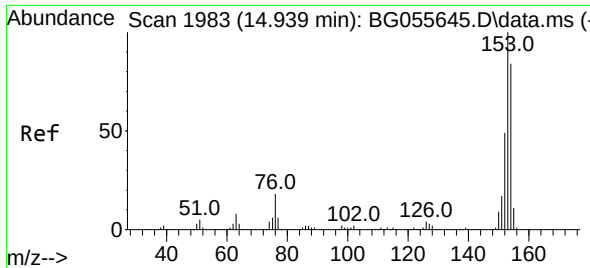


#45  
2-Fluorobiphenyl  
Concen: 73.636 ng  
RT: 13.419 min Scan# 1724  
Delta R.T. -0.001 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50



Tgt Ion:172 Resp: 468626  
Ion Ratio Lower Upper  
172 100  
171 36.7 29.8 44.6  
170 24.7 20.2 30.4





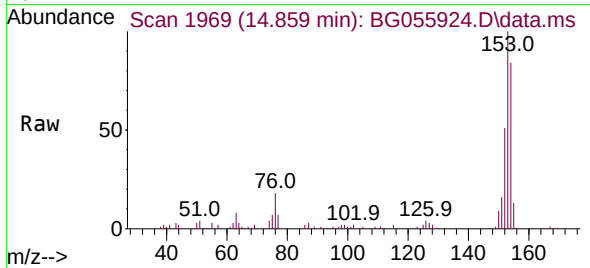
#52  
Acenaphthene  
Concen: 3.317 ng  
RT: 14.859 min Scan# 1983  
Delta R.T. -0.007 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

Instrument :

BNA\_G

ClientSampleId :

CL-02-120622

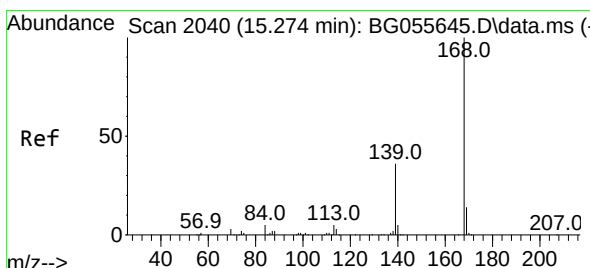
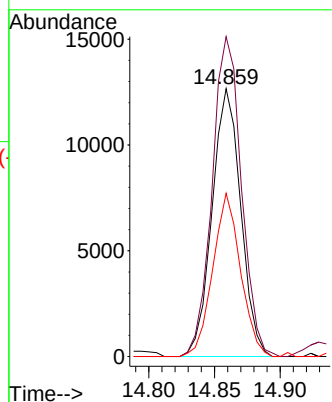
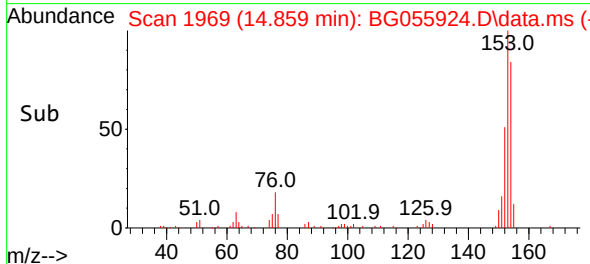


Tgt Ion:154 Resp: 19281  
Ion Ratio Lower Upper  
154 100  
153 119.4 95.0 142.4  
152 60.9 46.1 69.1

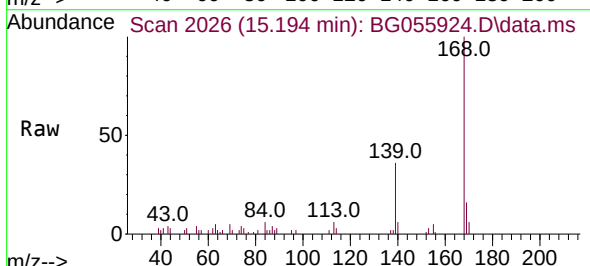
Manual Integrations

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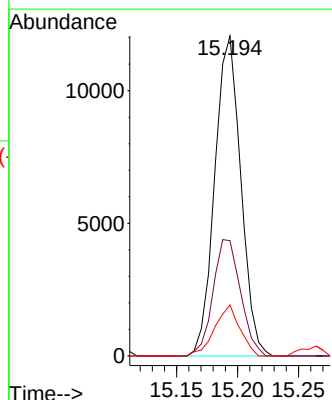
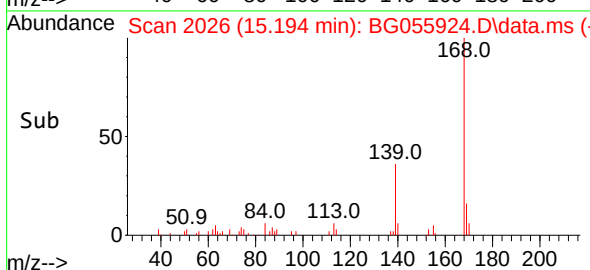
Reviewed By :Christian Giraldo 12/08/2022  
Supervised By :mohammad ahmed 12/08/2022

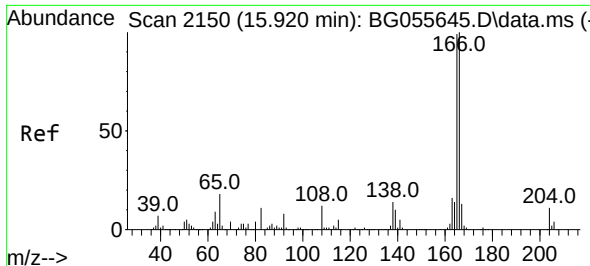


#55  
Dibenzofuran  
Concen: 2.002 ng  
RT: 15.194 min Scan# 2026  
Delta R.T. -0.001 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50



Tgt Ion:168 Resp: 17946  
Ion Ratio Lower Upper  
168 100  
139 36.0 28.8 43.2  
169 15.9 11.0 16.4





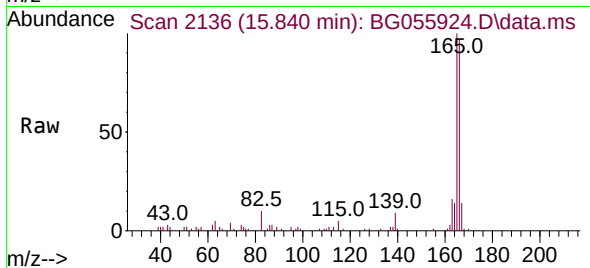
#58  
Fluorene  
Concen: 3.487 ng  
RT: 15.840 min Scan# 2150  
Delta R.T. -0.007 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

Instrument :

BNA\_G

ClientSampleId :

CL-02-120622

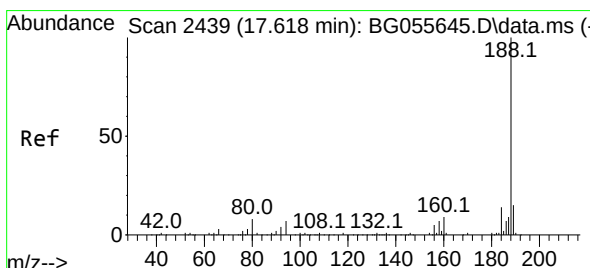
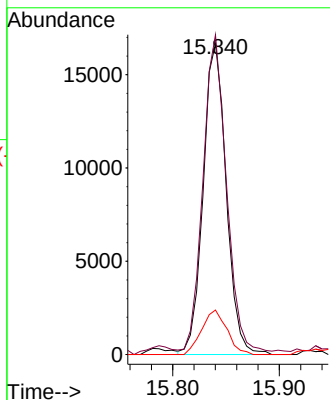
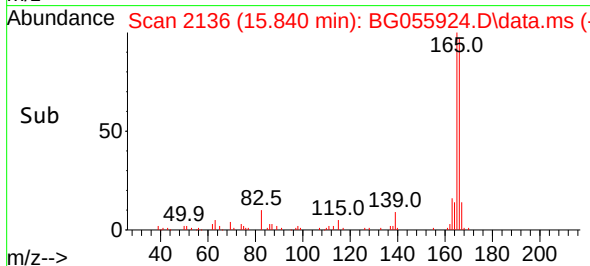


Tgt Ion:166 Resp: 24974  
Ion Ratio Lower Upper  
166 100  
165 102.8 79.3 118.9  
167 14.3 10.6 15.8

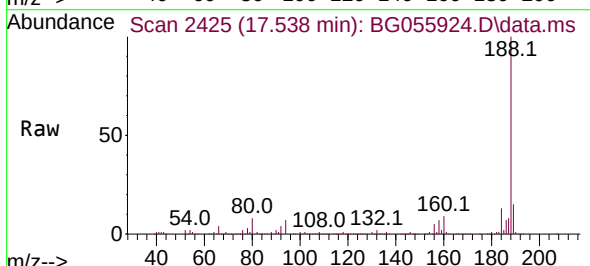
Manual Integrations

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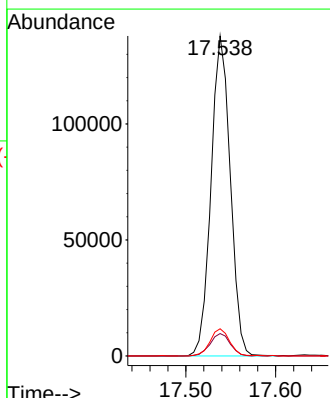
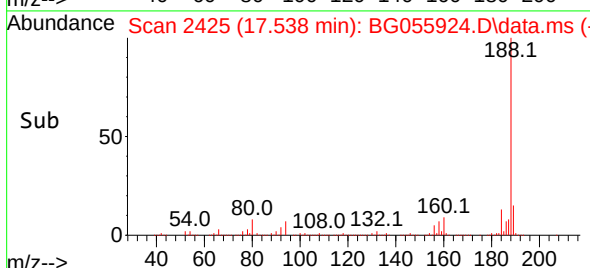
Reviewed By :Christian Giraldo 12/08/2022  
Supervised By :mohammad ahmed 12/08/2022



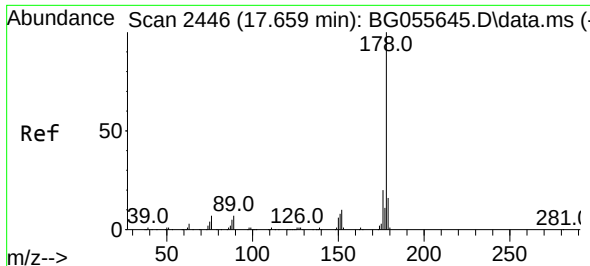
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Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.538 min Scan# 2425  
Delta R.T. -0.007 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50



Tgt Ion:188 Resp: 205943  
Ion Ratio Lower Upper  
188 100  
94 7.0 5.4 8.2  
80 8.5 6.6 10.0

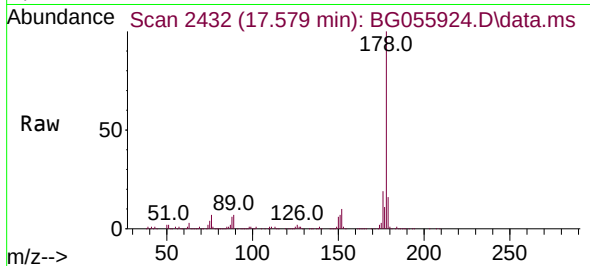






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Phenanthrene  
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Delta R.T. -0.007 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

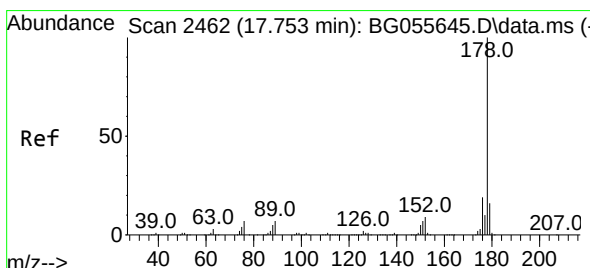
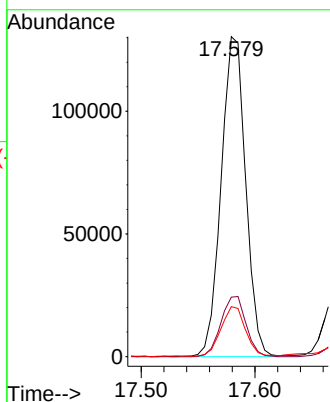
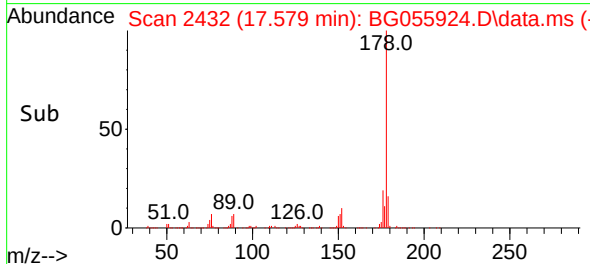
Instrument :  
BNA\_G  
ClientSampleId :  
CL-02-120622



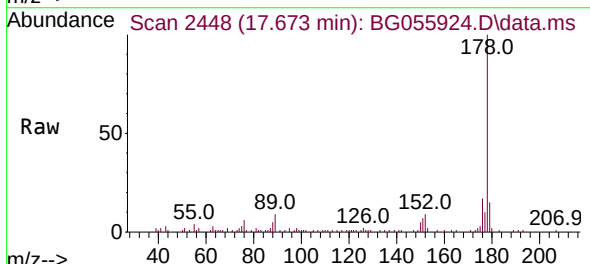
Tgt Ion:178 Resp: 195353  
Ion Ratio Lower Upper  
178 100  
176 18.6 16.0 24.0  
179 15.6 12.7 19.1

Manual Integrations  
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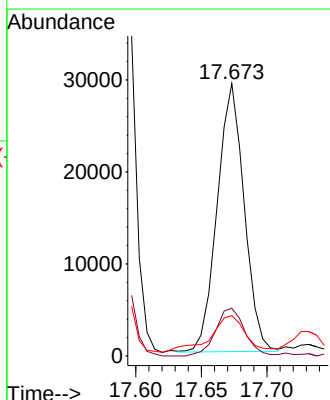
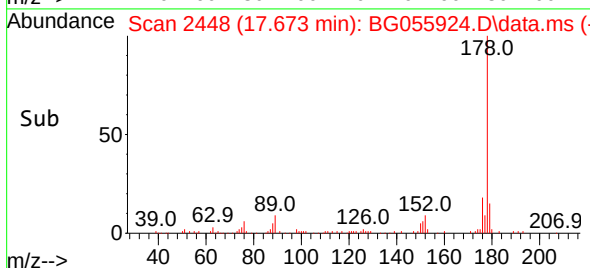
Reviewed By :Christian Giraldo 12/08/2022  
Supervised By :mohammad ahmed 12/08/2022

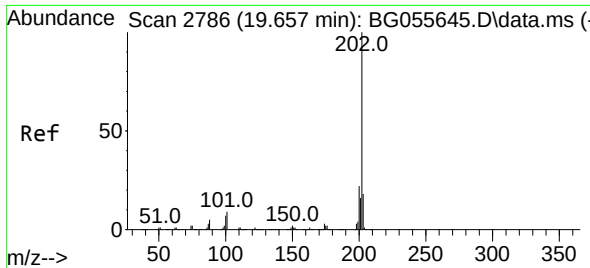


#72  
Anthracene  
Concen: 3.866 ng  
RT: 17.673 min Scan# 2448  
Delta R.T. -0.001 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50



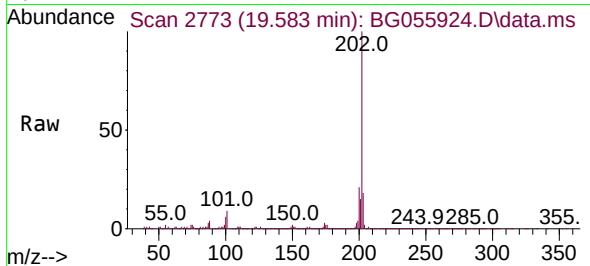
Tgt Ion:178 Resp: 41750  
Ion Ratio Lower Upper  
178 100  
176 17.5 15.5 23.3  
179 14.8 12.5 18.7





#75  
Fluoranthene  
Concen: 23.060 ng  
RT: 19.583 min Scan# 211  
Delta R.T. -0.001 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

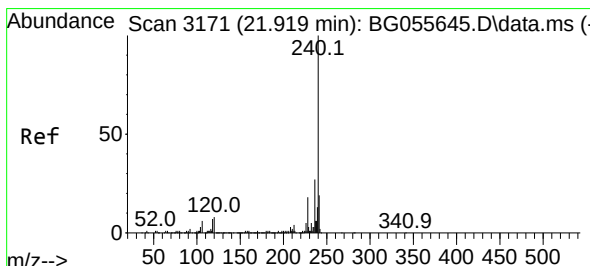
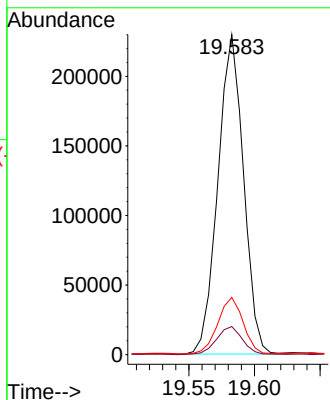
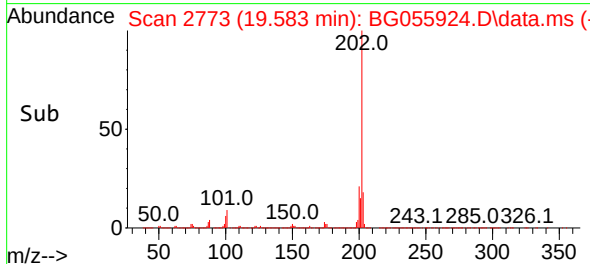
Instrument :  
BNA\_G  
ClientSampleId :  
CL-02-120622



Tgt Ion:202 Resp: 311779  
Ion Ratio Lower Upper  
202 100  
101 8.8 0.0 28.8  
203 17.9 0.0 38.1

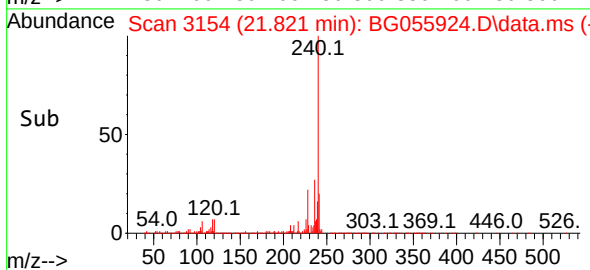
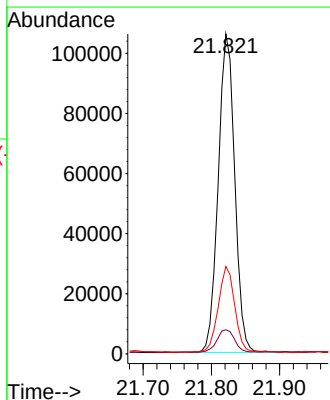
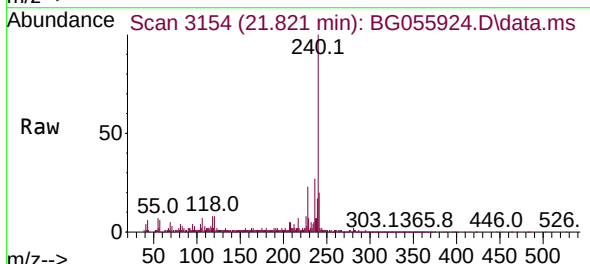
Manual Integrations  
APPROVED

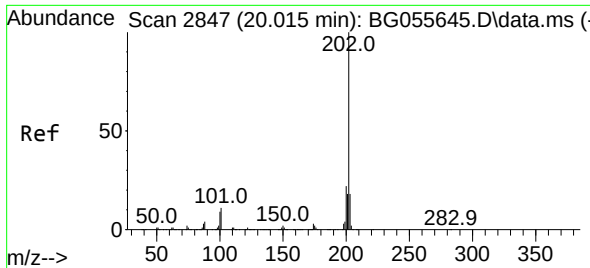
Reviewed By :Christian Giraldo 12/08/2022  
Supervised By :mohammad ahmed 12/08/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.821 min Scan# 3154  
Delta R.T. -0.007 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

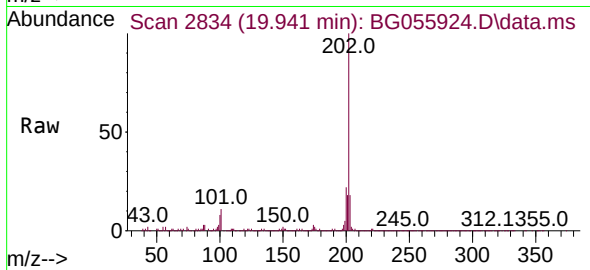
Tgt Ion:240 Resp: 176989  
Ion Ratio Lower Upper  
240 100  
120 7.5 6.3 9.5  
236 27.3 21.9 32.9





#78  
Pyrene  
Concen: 23.434 ng  
RT: 19.941 min Scan# 2847  
Delta R.T. -0.007 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

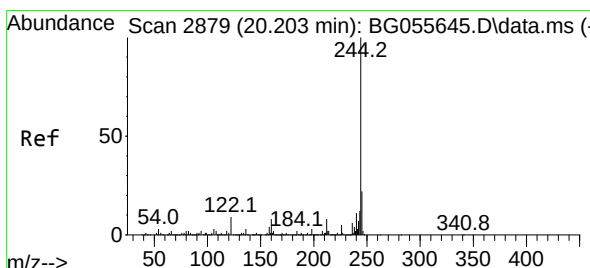
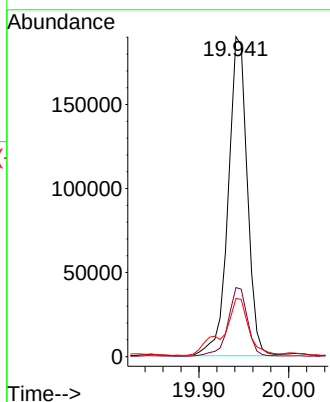
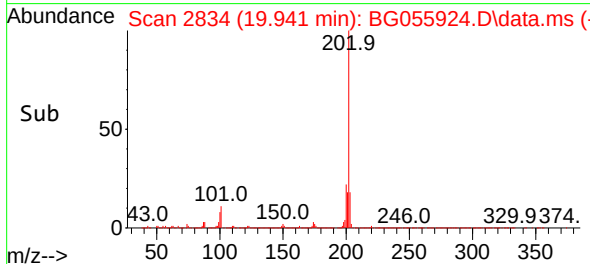
Instrument :  
BNA\_G  
ClientSampleId :  
CL-02-120622



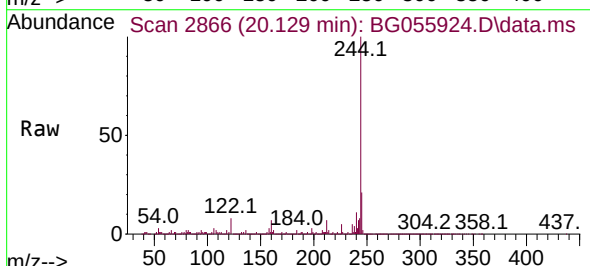
Tgt Ion:202 Resp: 280745  
Ion Ratio Lower Upper  
202 100  
200 21.6 17.8 26.6  
203 18.2 14.4 21.6

Manual Integrations  
APPROVED

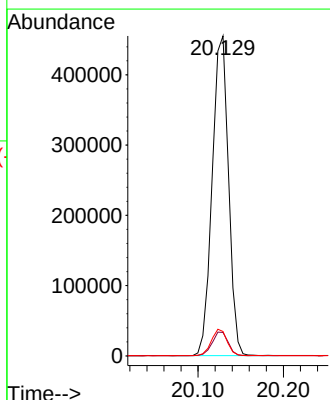
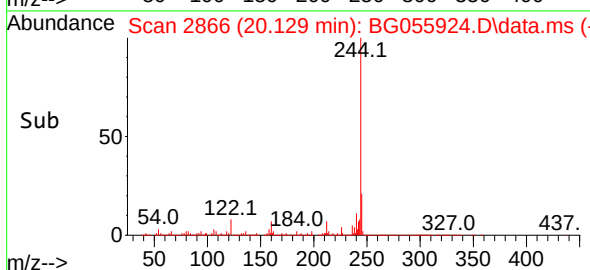
Reviewed By :Christian Giraldo 12/08/2022  
Supervised By :mohammad ahmed 12/08/2022

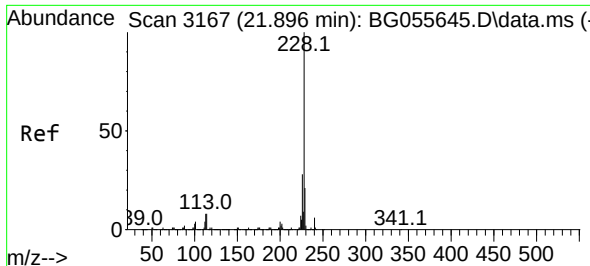


#79  
Terphenyl-d14  
Concen: 68.426 ng  
RT: 20.129 min Scan# 2866  
Delta R.T. -0.001 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50



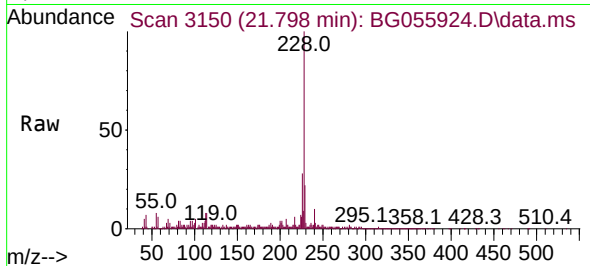
Tgt Ion:244 Resp: 605493  
Ion Ratio Lower Upper  
244 100  
212 7.4 6.3 9.5  
122 7.6 6.9 10.3





#81  
Benzo(a)anthracene  
Concen: 13.587 ng  
RT: 21.798 min Scan# 3150  
Delta R.T. -0.007 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

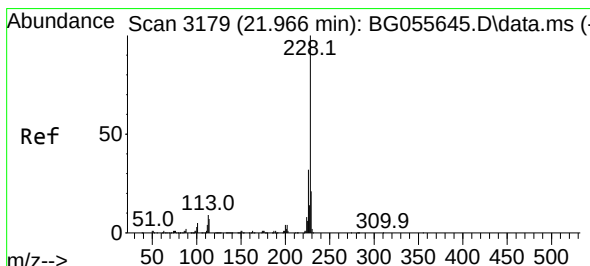
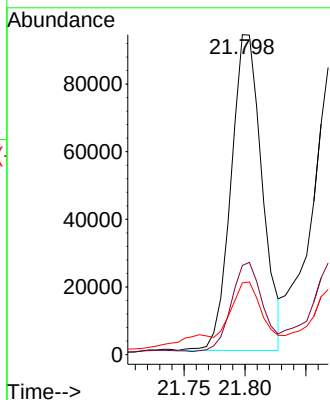
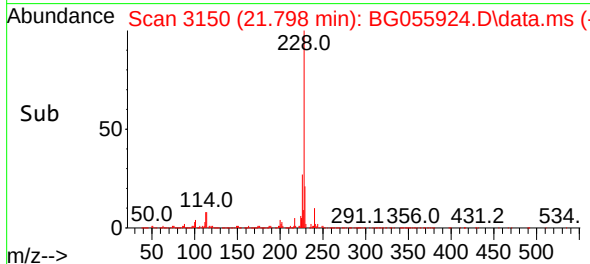
Instrument :  
BNA\_G  
ClientSampleId :  
CL-02-120622



Tgt Ion:228 Resp: 165629  
Ion Ratio Lower Upper  
228 100  
226 27.9 22.7 34.1  
229 22.4 16.5 24.7

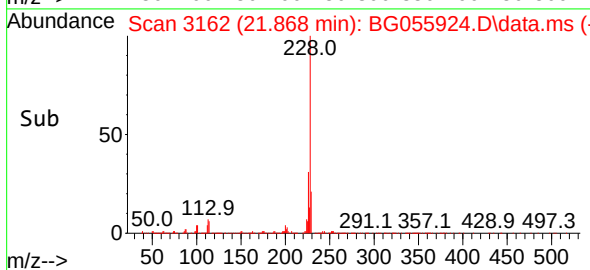
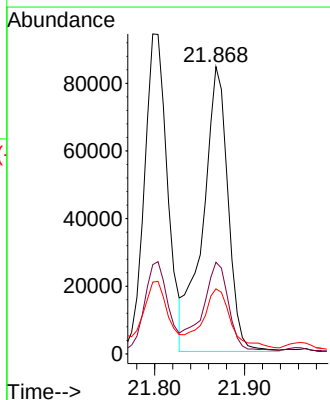
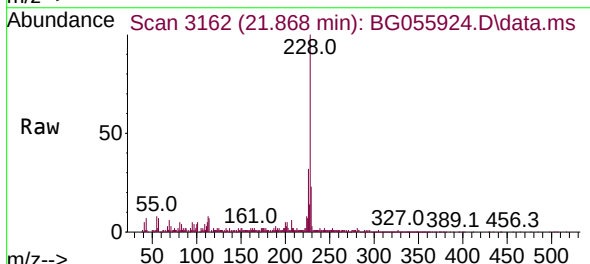
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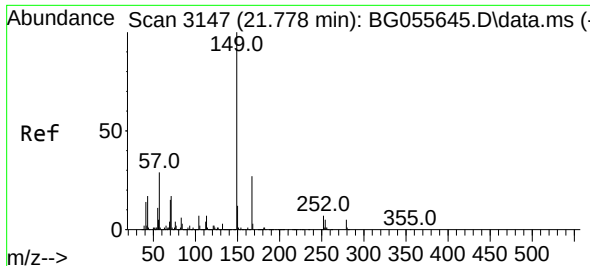
Reviewed By :Christian Giraldo 12/08/2022  
Supervised By :mohammad ahmed 12/08/2022



#83  
Chrysene  
Concen: 14.073 ng m  
RT: 21.868 min Scan# 3162  
Delta R.T. -0.007 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

Tgt Ion:228 Resp: 163317  
Ion Ratio Lower Upper  
228 100  
226 31.9 25.4 38.2  
229 22.7 17.1 25.7





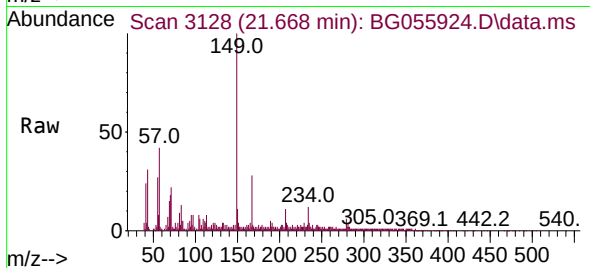
#84  
Bis(2-ethylhexyl)phthalate  
Concen: 8.946 ng  
RT: 21.668 min Scan# 3147  
Delta R.T. -0.001 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

Instrument :

BNA\_G

ClientSampleId :

CL-02-120622

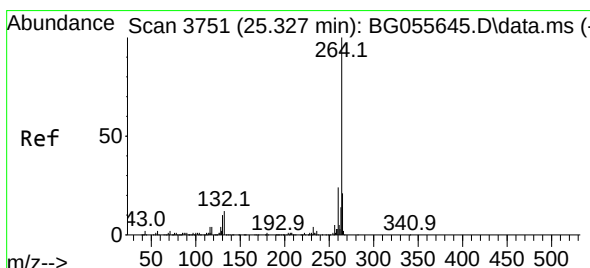
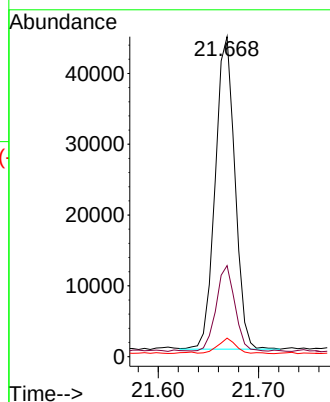
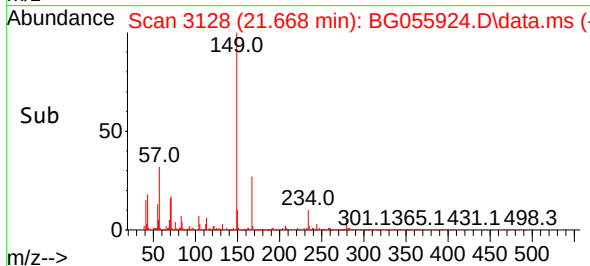


Tgt Ion:149 Resp: 60295  
Ion Ratio Lower Upper  
149 100  
167 28.4 22.0 33.0  
279 5.8 3.7 5.5

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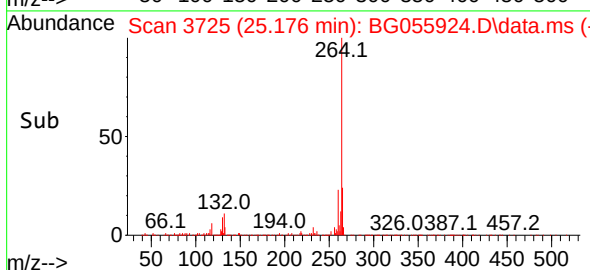
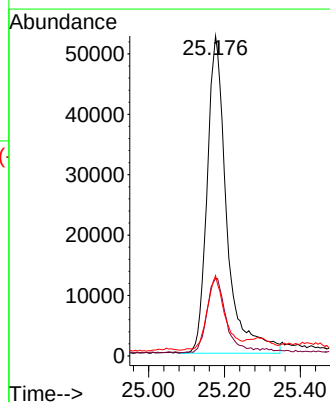
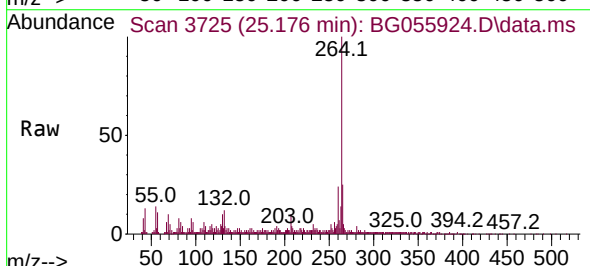
APPROVED

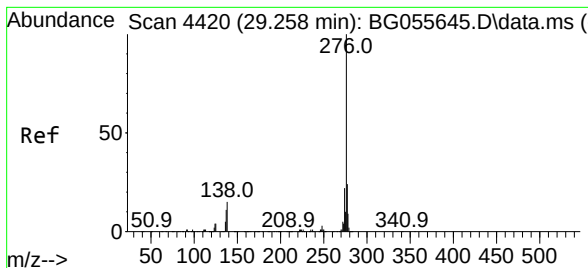
Reviewed By :Christian Giraldo 12/08/2022  
Supervised By :mohammad ahmed 12/08/2022



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.176 min Scan# 3725  
Delta R.T. -0.001 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

Tgt Ion:264 Resp: 188639  
Ion Ratio Lower Upper  
264 100  
260 24.2 19.5 29.3  
265 25.1 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.650 ng

RT: 29.036 min Scan# 4382

Delta R.T. -0.007 min

Lab File: BG055924.D

Acq: 7 Dec 2022 21:50

Instrument :

BNA\_G

ClientSampleId :

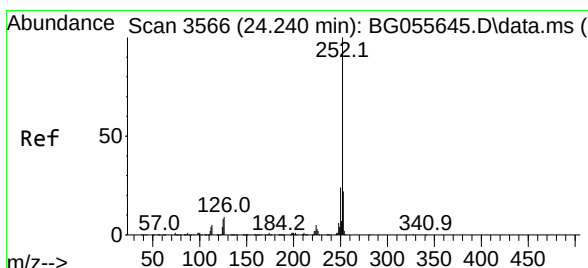
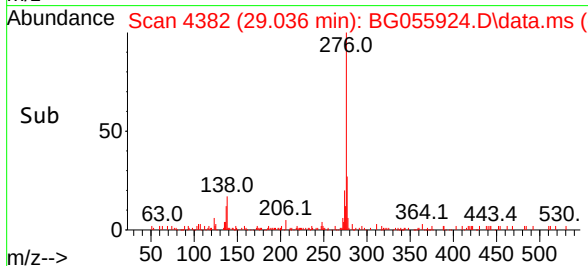
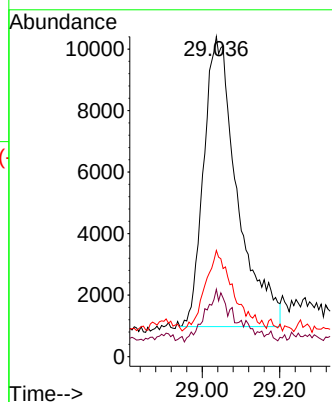
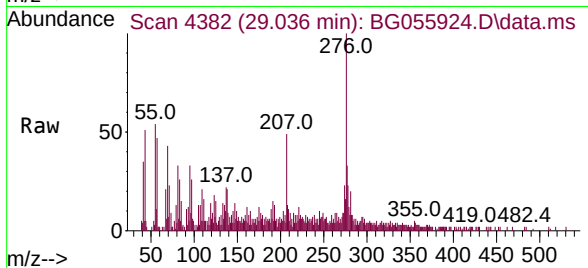
CL-02-120622

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 56409 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 12.8  | 10.4  | 15.6  |
| 277       | 24.3  | 20.2  | 30.4  |

Manual Integrations

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Reviewed By :Christian Giraldo 12/08/2022  
Supervised By :mohammad ahmed 12/08/2022



#88

Benzo(b)fluoranthene

Concen: 15.320 ng

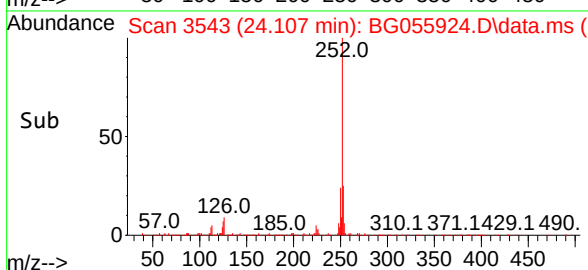
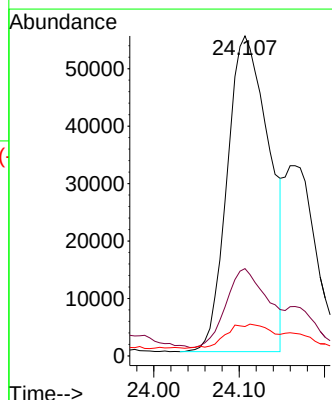
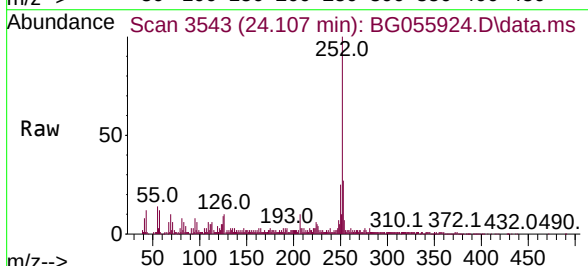
RT: 24.107 min Scan# 3543

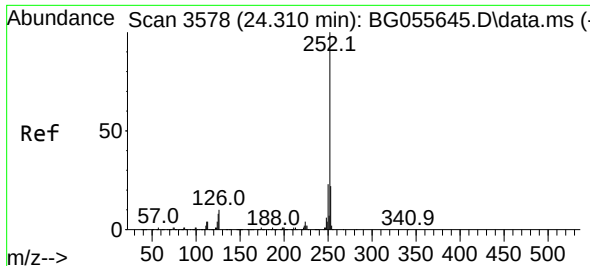
Delta R.T. -0.001 min

Lab File: BG055924.D

Acq: 7 Dec 2022 21:50

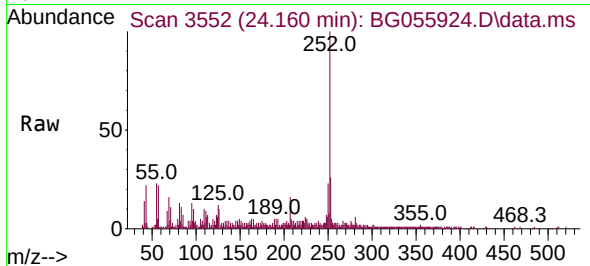
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 188211 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 27.3  | 18.0  | 27.0#  |
| 125       | 9.2   | 6.2   | 9.2    |





#89  
Benzo(k)fluoranthene  
Concen: 7.271 ng m  
RT: 24.160 min Scan# 3552  
Delta R.T. -0.019 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

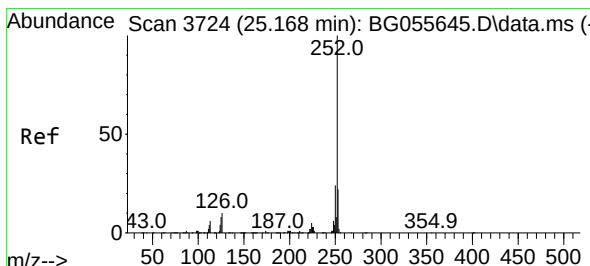
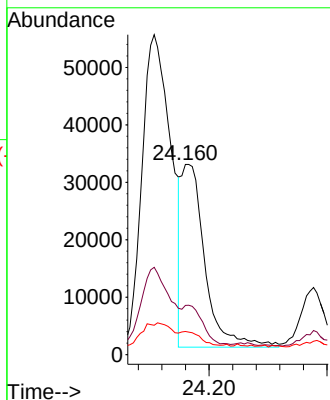
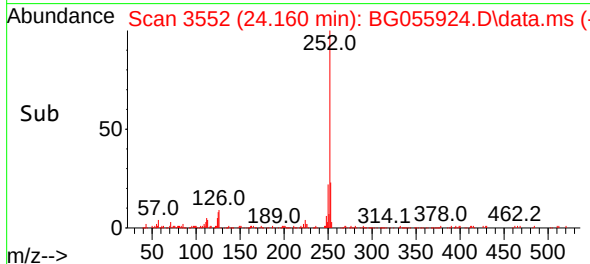
Instrument :  
BNA\_G  
ClientSampleId :  
CL-02-120622



Tgt Ion:252 Resp: 89042  
Ion Ratio Lower Upper  
252 100  
253 25.8 17.8 26.6  
125 12.2 6.1 9.1

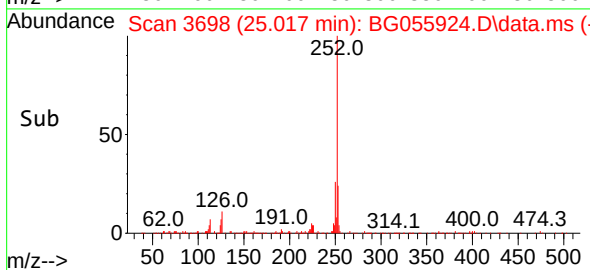
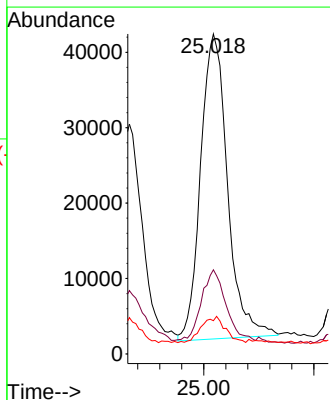
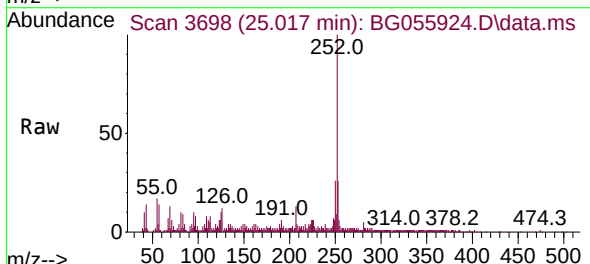
Manual Integrations  
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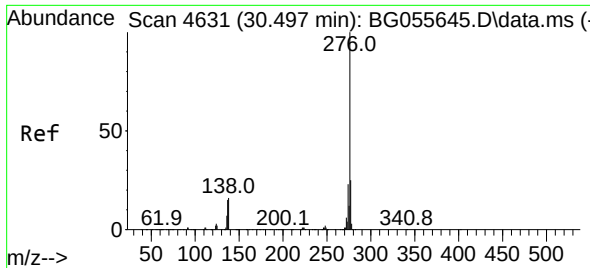
Reviewed By :Christian Giraldo 12/08/2022  
Supervised By :mohammad ahmed 12/08/2022



#90  
Benzo(a)pyrene  
Concen: 13.036 ng  
RT: 25.017 min Scan# 3698  
Delta R.T. -0.001 min  
Lab File: BG055924.D  
Acq: 7 Dec 2022 21:50

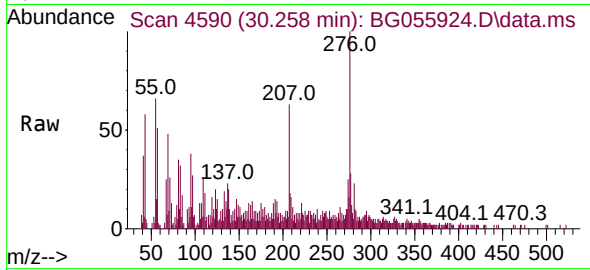
Tgt Ion:252 Resp: 137431  
Ion Ratio Lower Upper  
252 100  
253 26.3 17.8 26.6  
125 10.4 6.4 9.6





#92  
 Benzo(g,h,i)perylene  
 Concen: 4.427 ng m  
 RT: 30.258 min Scan# 4590  
 Delta R.T. 0.005 min  
 Lab File: BG055924.D  
 Acq: 7 Dec 2022 21:50

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CL-02-120622



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 5635 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 277       | 28.4  | 19.8  | 29.6 |
| 138       | 19.9  | 13.1  | 19.7 |

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Reviewed By :Christian Giraldo 12/08/2022  
 Supervised By :mohammad ahmed 12/08/2022

