

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG110121\  
 Data File : BG050798.D  
 Acq On : 1 Nov 2021 14:32  
 Operator : CG/JU  
 Sample : M4428-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HD-01-102921

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 11/02/2021  
 Supervised By :mohammad ahmed 11/03/2021

Quant Time: Nov 01 15:10:39 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG100621.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 01 12:35:42 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.236  | 152  | 37763    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 11.062 | 136  | 158042   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.858 | 164  | 99465    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.607 | 188  | 212582   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12            | 21.902 | 240  | 194830   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12            | 25.310 | 264  | 195836   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.774  | 112  | 232501   | 92.078 | ng    | 0.00     |
| 7) Phenol-d6                | 7.384  | 99   | 320450   | 87.655 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.411  | 82   | 217076   | 56.859 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.344 | 330  | 90317    | 95.199 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.483 | 172  | 383152   | 57.976 | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.192 | 244  | 560672   | 56.082 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 17.648 | 178  | 48441    | 4.324  | ng    | 94       |
| 75) Fluoranthene            | 19.646 | 202  | 157862   | 11.464 | ng    | 92       |
| 78) Pyrene                  | 20.010 | 202  | 134672   | 9.742  | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.885 | 228  | 84562    | 6.559  | ng    | 98       |
| 83) Chrysene                | 21.949 | 228  | 70796    | 5.838  | ng    | 95       |
| 87) Indeno(1,2,3-cd)pyrene  | 29.217 | 276  | 49229    | 3.609  | ng    | # 86     |
| 88) Benzo(b)fluoranthene    | 24.223 | 252  | 96223    | 8.023  | ng    | # 92     |
| 89) Benzo(k)fluoranthene    | 24.288 | 252  | 37699m   | 3.195  | ng    |          |
| 90) Benzo(a)pyrene          | 25.140 | 252  | 72538    | 7.113  | ng    | # 92     |
| 92) Benzo(g,h,i)perylene    | 30.445 | 276  | 42014    | 3.802  | ng    | # 90     |
| -----                       |        |      |          |        |       |          |

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

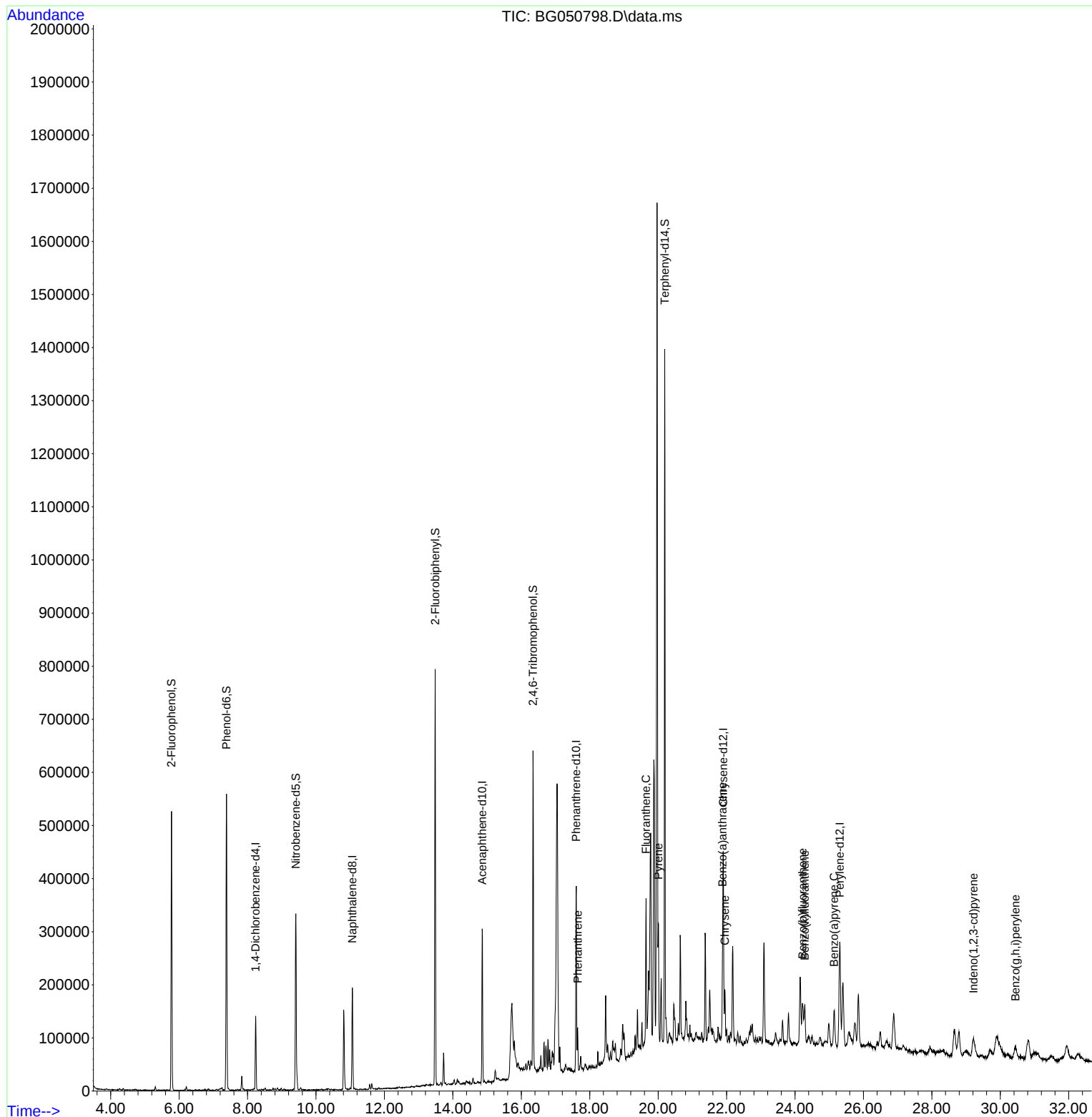
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG110121\  
Data File : BG050798.D  
Acq On : 1 Nov 2021 14:32  
Operator : CG/JU  
Sample : M4428-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

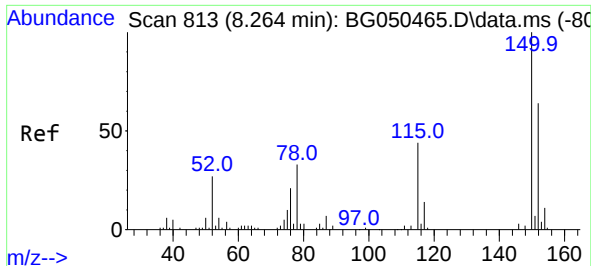
Instrument :  
BNA\_G  
ClientSampleId :  
HD-01-102921

Quant Time: Nov 01 15:10:39 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG100621.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 01 12:35:42 2021  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 11/02/2021  
Supervised By :mohammad ahmed 11/03/2021





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.236 min Scan# 80  
Delta R.T. -0.005 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

Instrument :

BNA\_G

ClientSampleId :

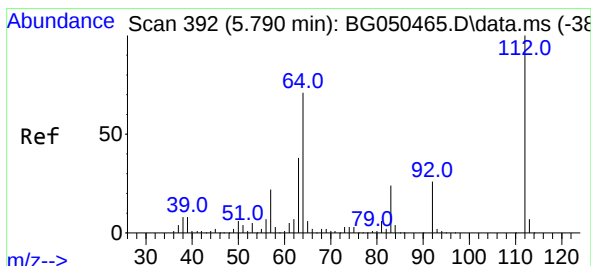
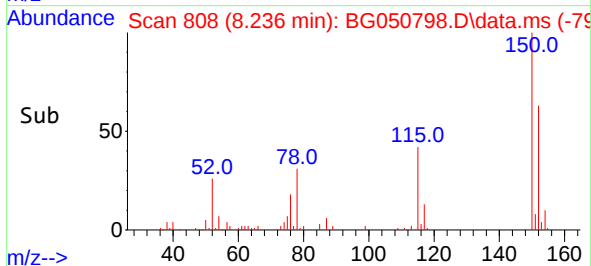
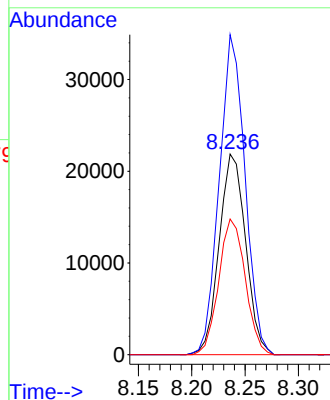
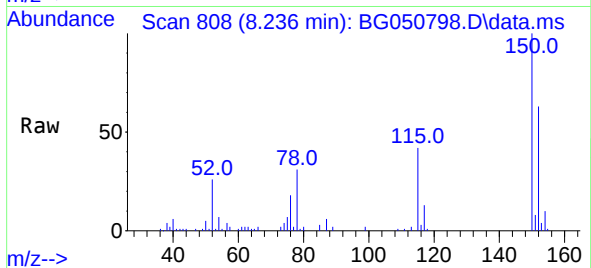
HD-01-102921

Tgt Ion:152 Resp: 3776  
Ion Ratio Lower Upper  
152 100  
150 159.5 119.4 179.0  
115 67.7 60.2 90.4

Manual Integrations

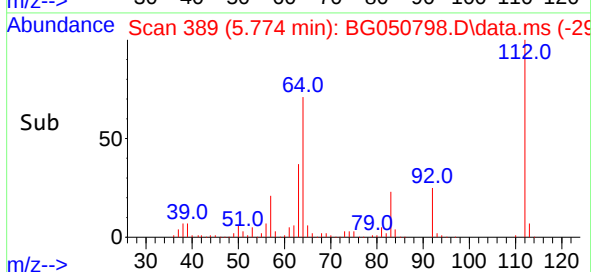
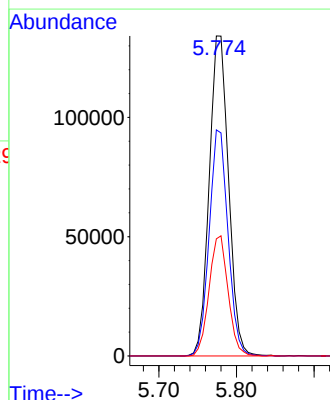
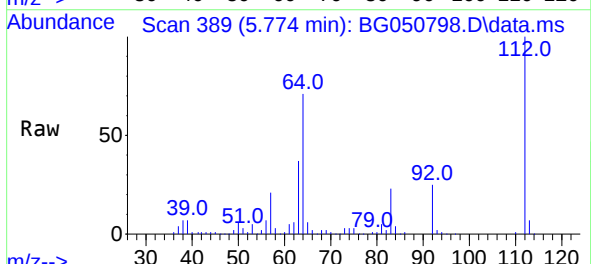
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Supervised By :mohammad ahmed 11/03/2021



#5  
2-Fluorophenol  
Concen: 92.078 ng  
RT: 5.774 min Scan# 389  
Delta R.T. 0.000 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

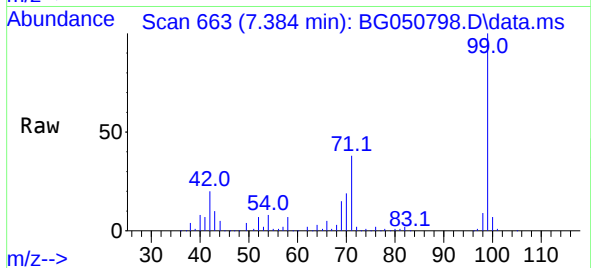
Tgt Ion:112 Resp: 232501  
Ion Ratio Lower Upper  
112 100  
64 70.6 46.7 70.1#  
63 36.6 35.3 52.9





#7  
Phenol-d6  
Concen: 87.655 ng  
RT: 7.384 min Scan# 60  
Delta R.T. 0.000 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

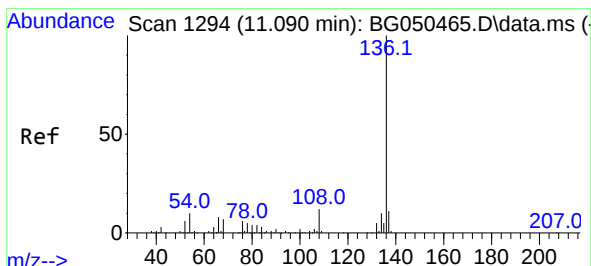
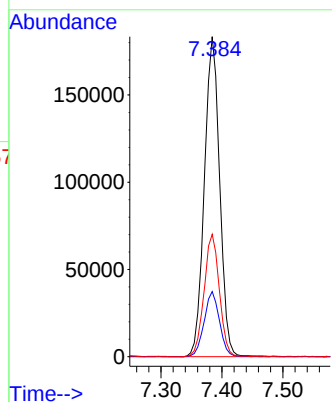
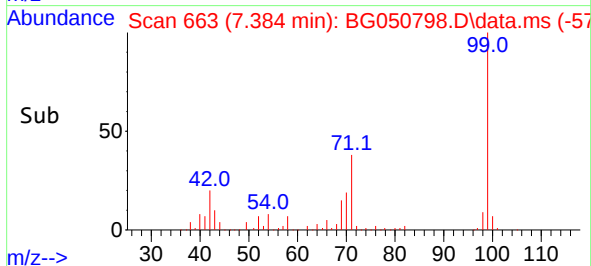
Instrument :  
BNA\_G  
ClientSampleId :  
HD-01-102921



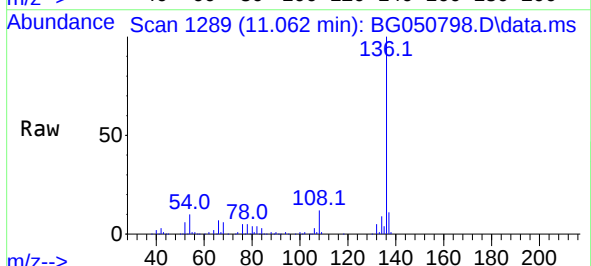
Tgt Ion: 99 Resp: 320450  
Ion Ratio Lower Upper  
99 100  
42 20.3 20.5 30.7  
71 38.3 41.5 62.3

Manual Integrations  
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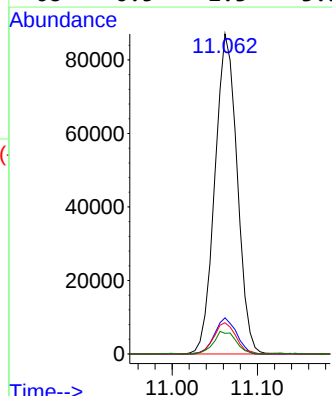
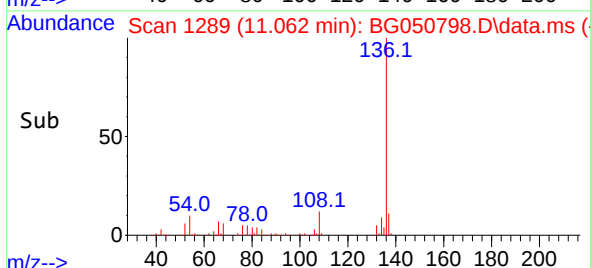
Reviewed By :Jagrut Upadhyay 11/02/2021  
Supervised By :mohammad ahmed 11/03/2021

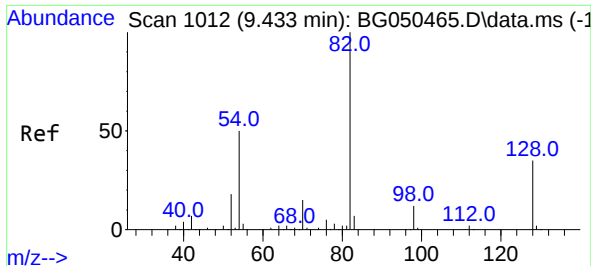


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.062 min Scan# 1289  
Delta R.T. 0.000 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32



Tgt Ion:136 Resp: 158042  
Ion Ratio Lower Upper  
136 100  
137 11.3 8.2 12.2  
54 9.7 5.5 8.3#  
68 6.5 2.3 3.5#





#23  
Nitrobenzene-d5  
Concen: 56.859 ng  
RT: 9.411 min Scan# 1012  
Delta R.T. 0.000 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

Instrument :

BNA\_G

ClientSampleId :

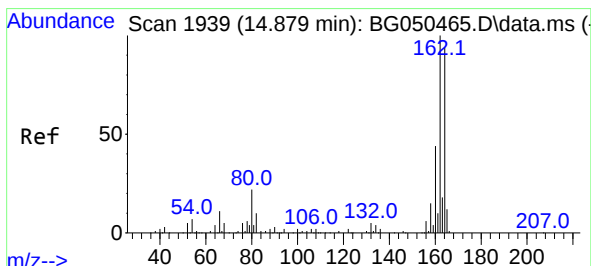
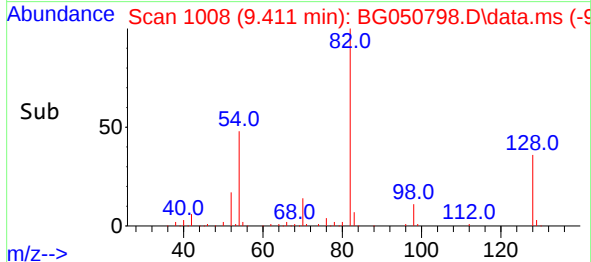
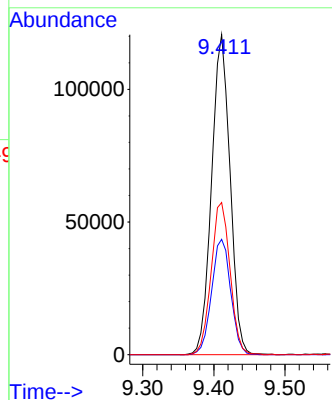
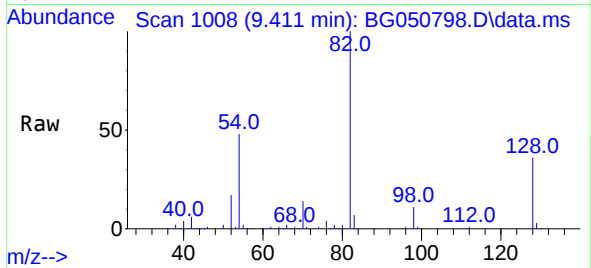
HD-01-102921

Tgt Ion: 82 Resp: 217070  
Ion Ratio Lower Upper  
82 100  
128 36.1 29.8 44.6  
54 47.6 45.8 68.8

Manual Integrations

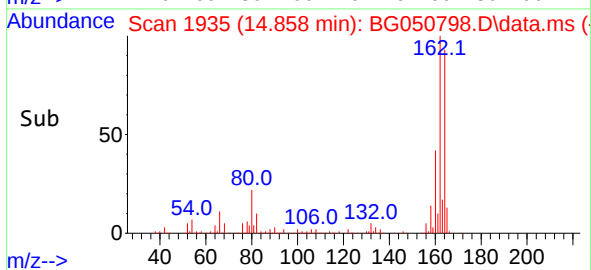
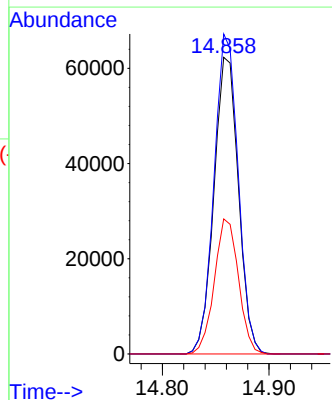
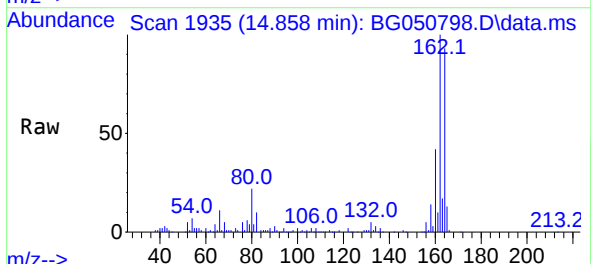
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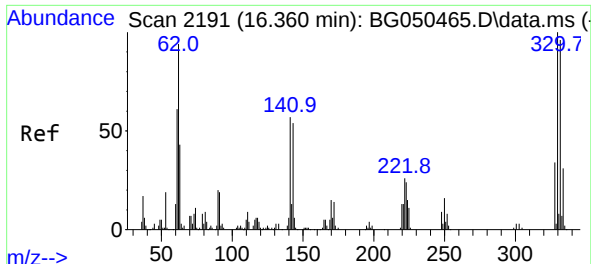
Reviewed By :Jagrut Upadhyay 11/02/2021  
Supervised By :mohammad ahmed 11/03/2021



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.858 min Scan# 1935  
Delta R.T. -0.006 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

Tgt Ion:164 Resp: 99465  
Ion Ratio Lower Upper  
164 100  
162 107.9 81.4 122.0  
160 45.5 34.9 52.3





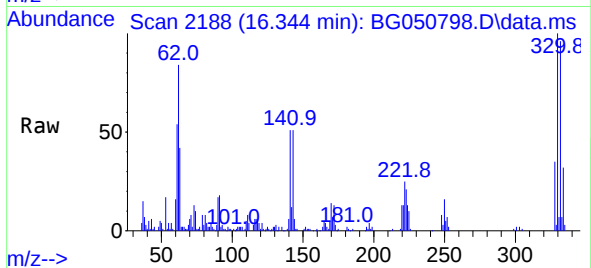
#42  
2,4,6-Tribromophenol  
Concen: 95.199 ng  
RT: 16.344 min Scan# 2191  
Delta R.T. -0.006 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

Instrument :

BNA\_G

ClientSampleId :

HD-01-102921

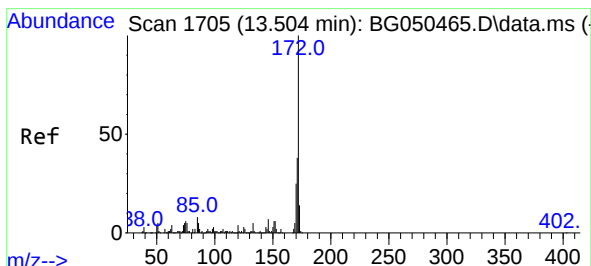
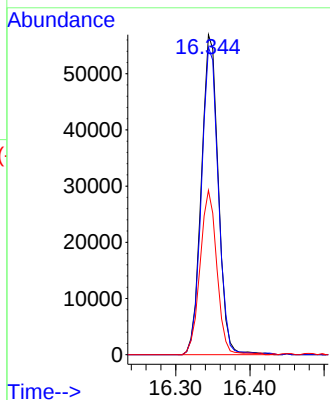
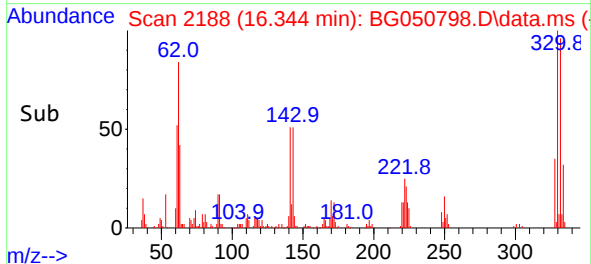


Tgt Ion:330 Resp: 9031  
Ion Ratio Lower Upper  
330 100  
332 96.2 77.3 115.9  
141 51.0 35.6 53.4

Manual Integrations

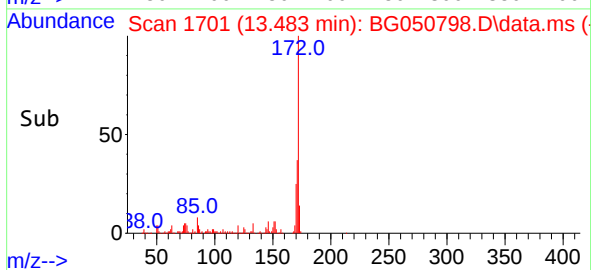
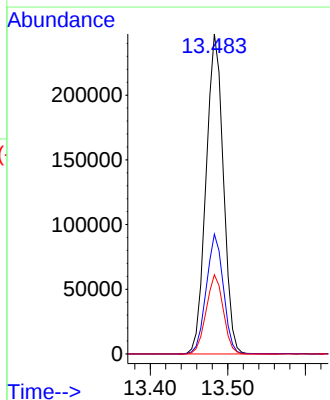
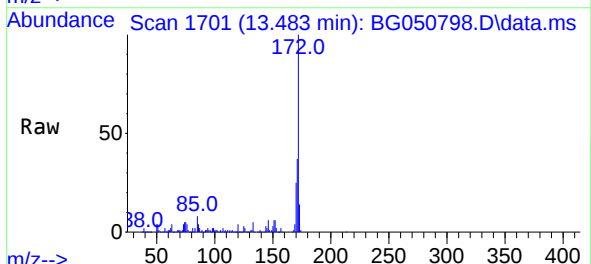
APPROVED

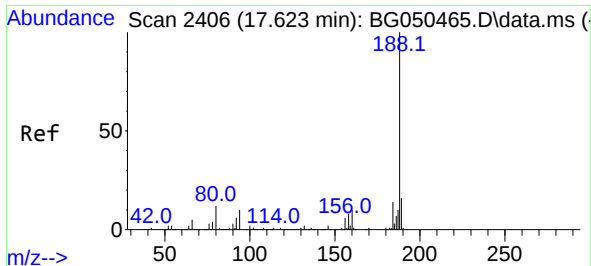
Reviewed By :Jagrut Upadhyay 11/02/2021  
Supervised By :mohammad ahmed 11/03/2021



#45  
2-Fluorobiphenyl  
Concen: 57.976 ng  
RT: 13.483 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

Tgt Ion:172 Resp: 383152  
Ion Ratio Lower Upper  
172 100  
171 37.5 28.6 43.0  
170 24.7 18.6 27.8





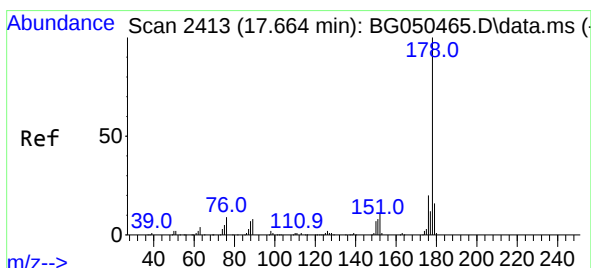
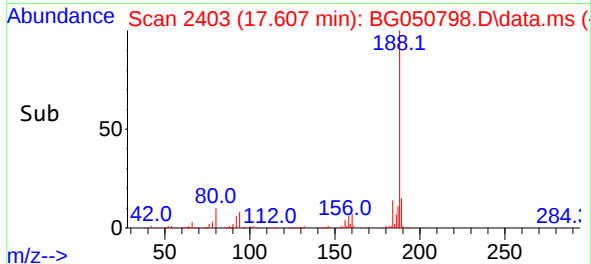
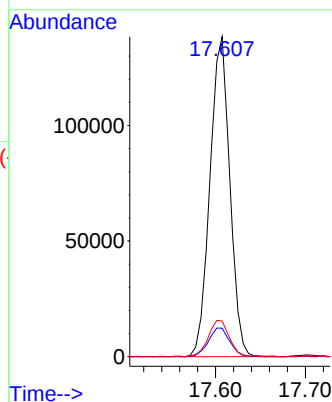
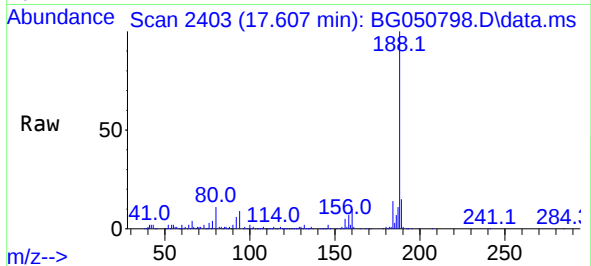
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.607 min Scan# 2406  
Delta R.T. 0.000 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

Instrument :  
BNA\_G  
ClientSampleId :  
HD-01-102921

Tgt Ion:188 Resp: 21258  
Ion Ratio Lower Upper  
188 100  
94 8.9 5.4 8.0  
80 11.1 3.7 5.5

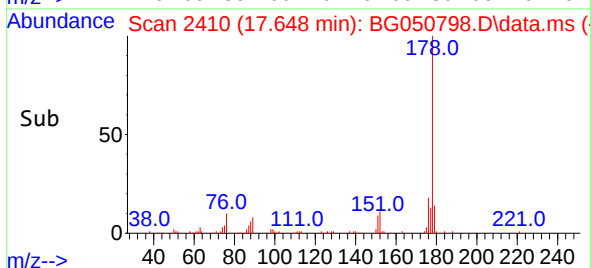
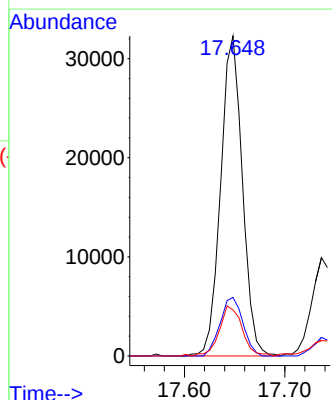
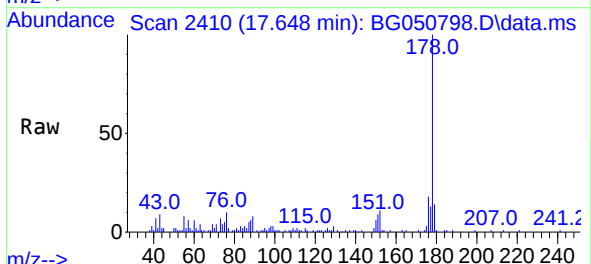
Manual Integrations  
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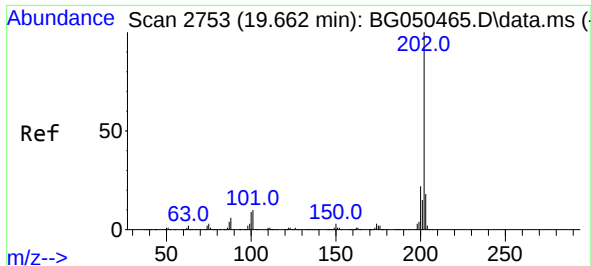
Reviewed By :Jagrut Upadhyay 11/02/2021  
Supervised By :mohammad ahmed 11/03/2021



#71  
Phenanthrene  
Concen: 4.324 ng  
RT: 17.648 min Scan# 2410  
Delta R.T. 0.000 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

Tgt Ion:178 Resp: 48441  
Ion Ratio Lower Upper  
178 100  
176 18.3 16.0 24.0  
179 14.4 14.2 21.4





#75  
Fluoranthene  
Concen: 11.464 ng  
RT: 19.646 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

Instrument :

BNA\_G

ClientSampleId :

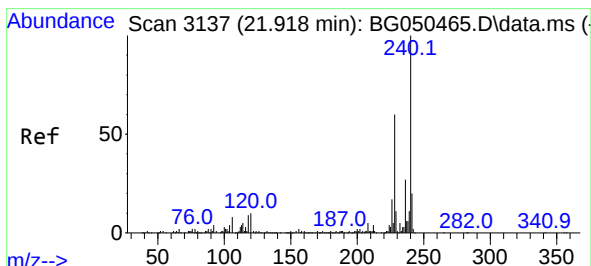
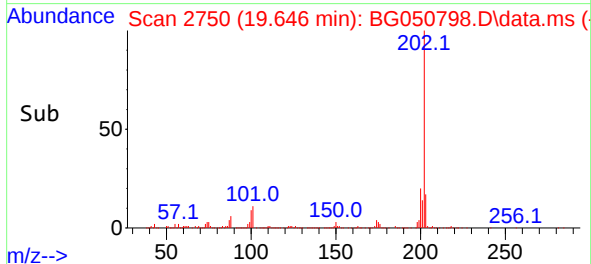
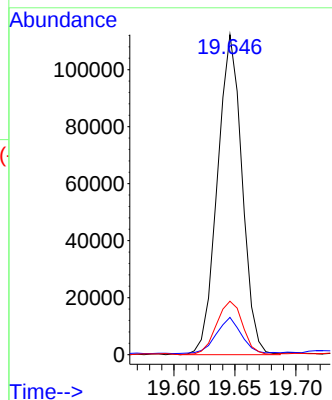
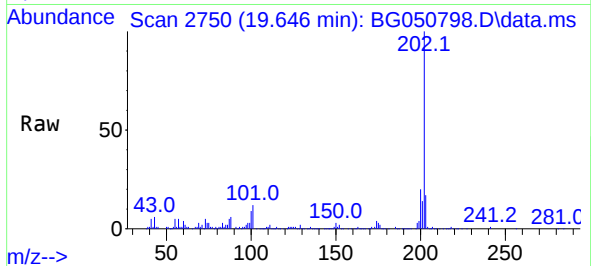
HD-01-102921

Tgt Ion:202 Resp: 15786  
Ion Ratio Lower Upper  
202 100  
101 11.6 0.0 24.7  
203 16.7 0.0 38.5

Manual Integrations

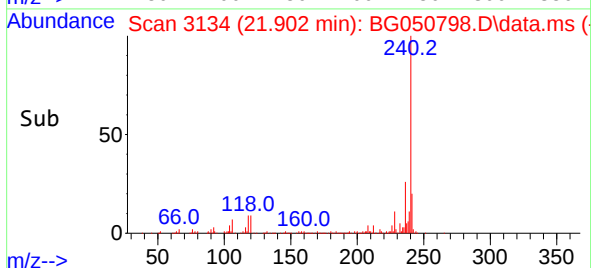
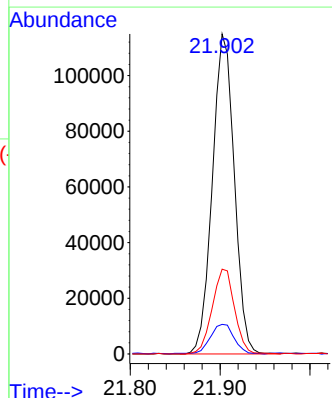
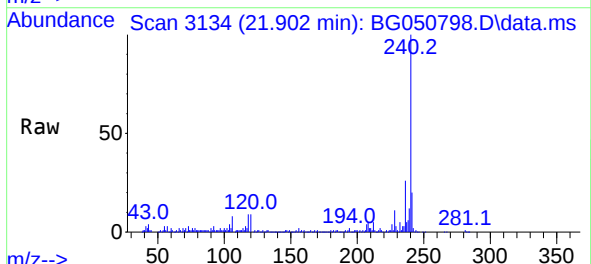
APPROVED

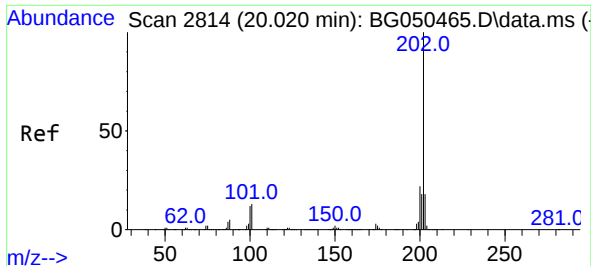
Reviewed By :Jagrut Upadhyay 11/02/2021  
Supervised By :mohammad ahmed 11/03/2021



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.902 min Scan# 3134  
Delta R.T. -0.006 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

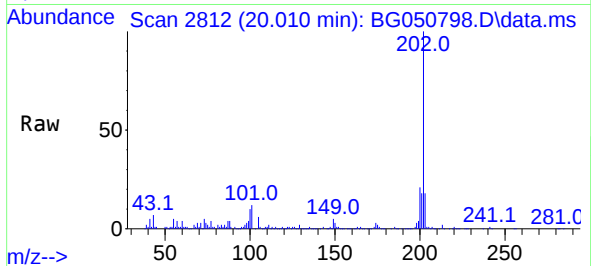
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Ion Ratio Lower Upper  
240 100  
120 9.3 4.2 6.2#  
236 26.5 21.8 32.6





#78  
 Pyrene  
 Concen: 9.742 ng  
 RT: 20.010 min Scan# 2812  
 Delta R.T. 0.000 min  
 Lab File: BG050798.D  
 Acq: 1 Nov 2021 14:32

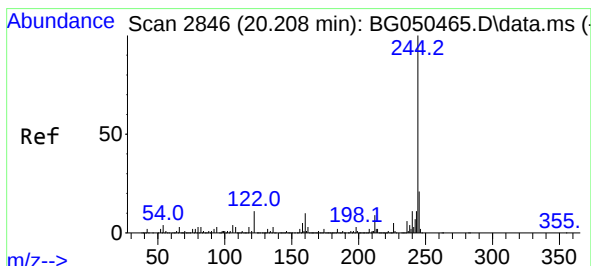
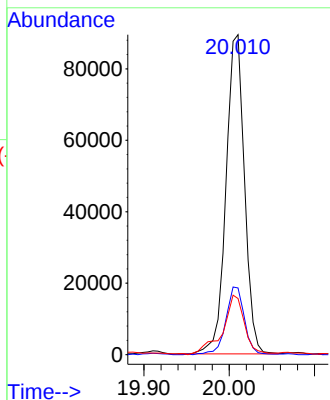
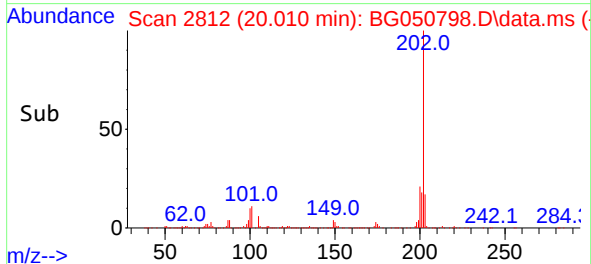
Instrument :  
 BNA\_G  
 ClientSampleId :  
 HD-01-102921



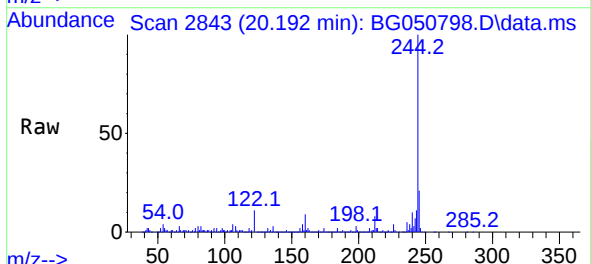
Tgt Ion:202 Resp: 134672  
 Ion Ratio Lower Upper  
 202 100  
 200 20.8 15.8 23.8  
 203 17.5 14.6 21.8

Manual Integrations  
 APPROVED

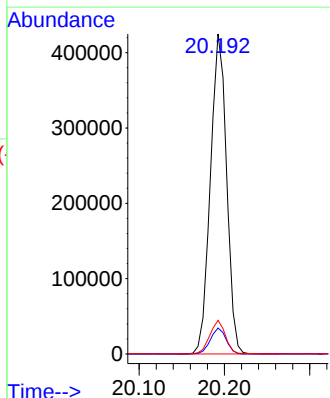
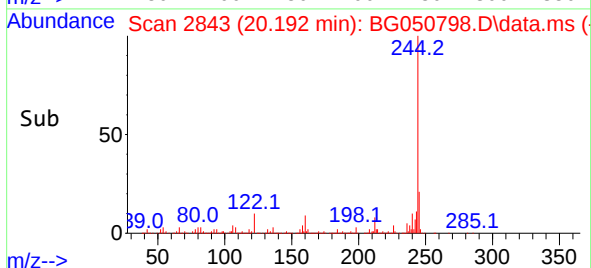
Reviewed By :Jagrut Upadhyay 11/02/2021  
 Supervised By :mohammad ahmed 11/03/2021

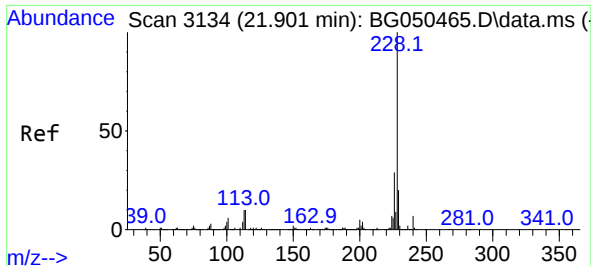


#79  
 Terphenyl-d14  
 Concen: 56.082 ng  
 RT: 20.192 min Scan# 2843  
 Delta R.T. 0.000 min  
 Lab File: BG050798.D  
 Acq: 1 Nov 2021 14:32



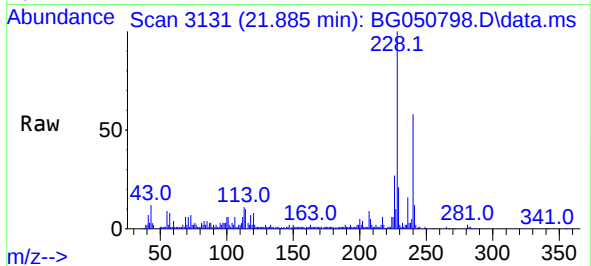
Tgt Ion:244 Resp: 560672  
 Ion Ratio Lower Upper  
 244 100  
 212 8.1 6.9 10.3  
 122 10.5 5.0 7.6





#81  
Benzo(a)anthracene  
Concen: 6.559 ng  
RT: 21.885 min Scan# 3131  
Delta R.T. 0.000 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

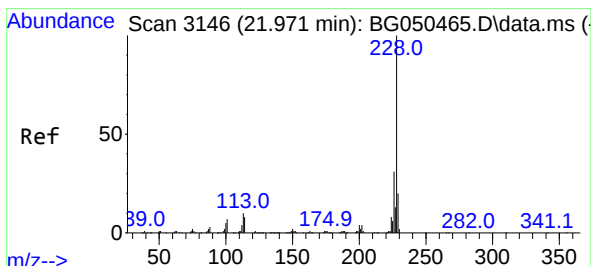
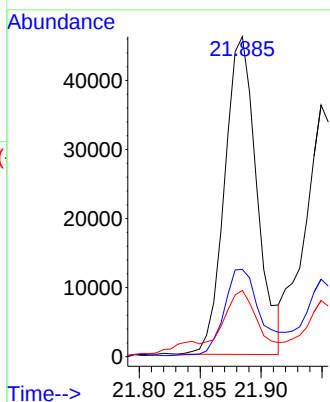
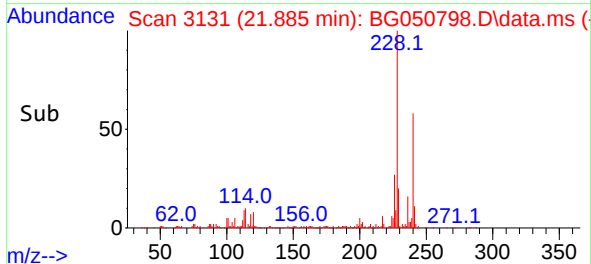
Instrument :  
BNA\_G  
ClientSampleId :  
HD-01-102921



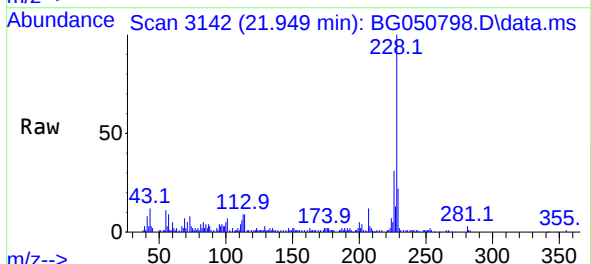
Tgt Ion:228 Resp: 8456  
Ion Ratio Lower Upper  
228 100  
226 27.3 22.7 34.1  
229 20.7 16.0 24.0

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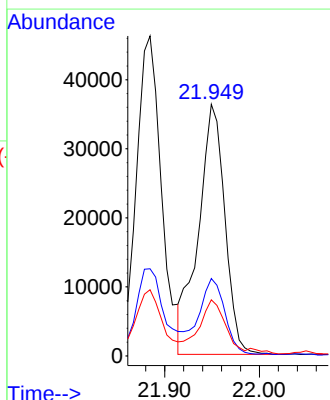
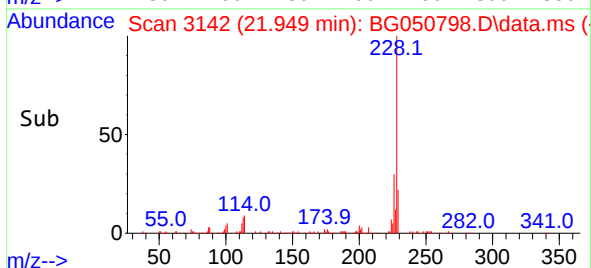
Reviewed By :Jagrut Upadhyay 11/02/2021  
Supervised By :mohammad ahmed 11/03/2021

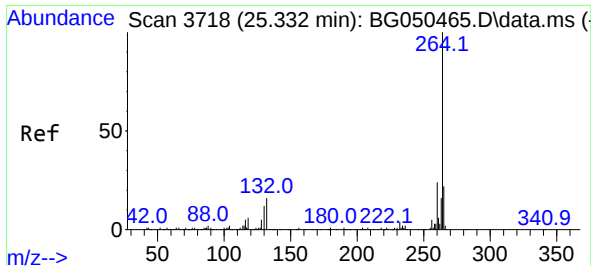


#83  
Chrysene  
Concen: 5.838 ng  
RT: 21.949 min Scan# 3142  
Delta R.T. -0.006 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32



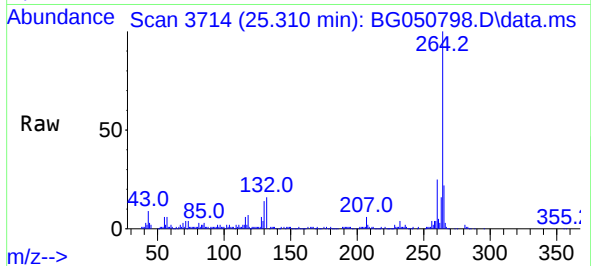
Tgt Ion:228 Resp: 70796  
Ion Ratio Lower Upper  
228 100  
226 30.8 23.1 34.7  
229 22.3 15.3 22.9





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.310 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

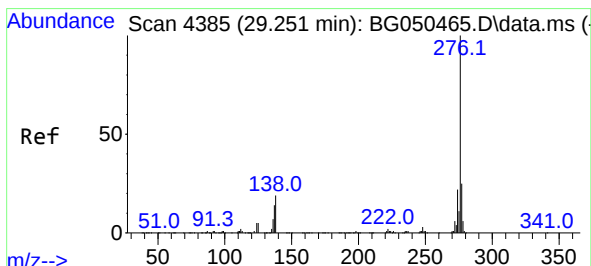
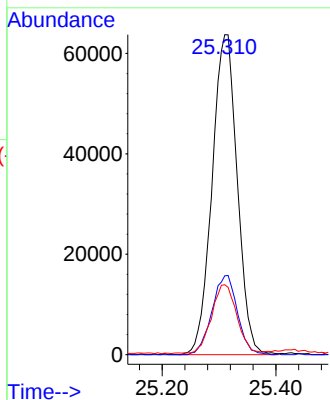
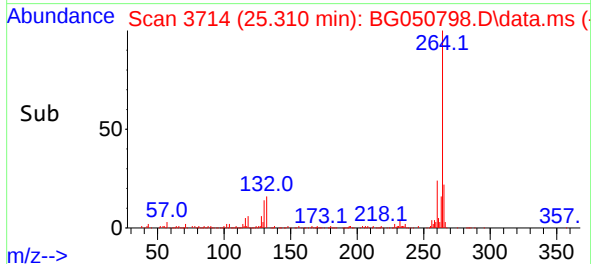
Instrument :  
BNA\_G  
ClientSampleId :  
HD-01-102921



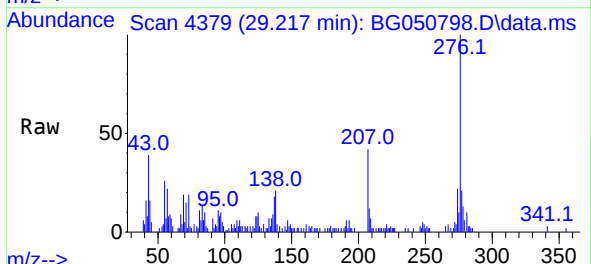
Tgt Ion:264 Resp: 195830  
Ion Ratio Lower Upper  
264 100  
260 24.7 19.4 29.2  
265 21.8 16.9 25.3

Manual Integrations  
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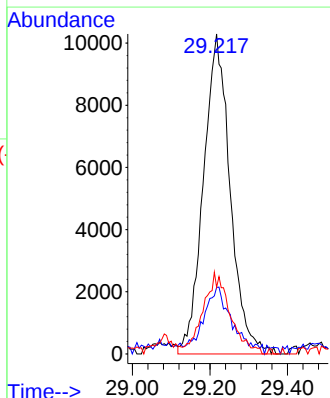
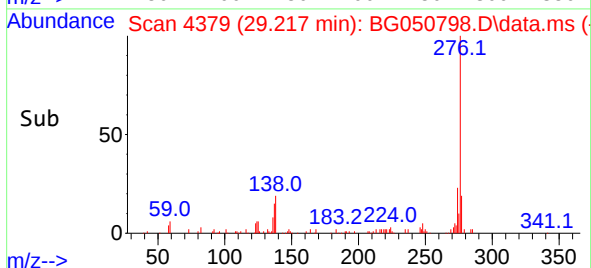
Reviewed By :Jagrut Upadhyay 11/02/2021  
Supervised By :mohammad ahmed 11/03/2021

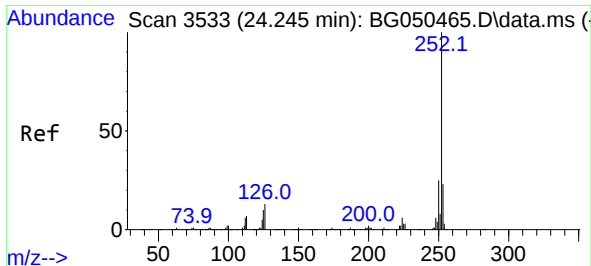


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.609 ng  
RT: 29.217 min Scan# 4379  
Delta R.T. -0.017 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32



Tgt Ion:276 Resp: 49229  
Ion Ratio Lower Upper  
276 100  
138 22.5 5.1 7.7#  
277 21.9 19.8 29.6





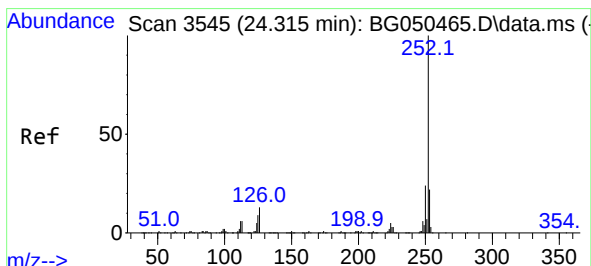
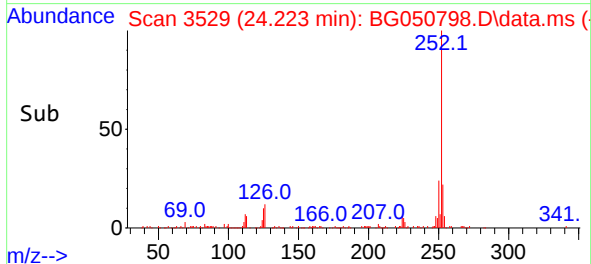
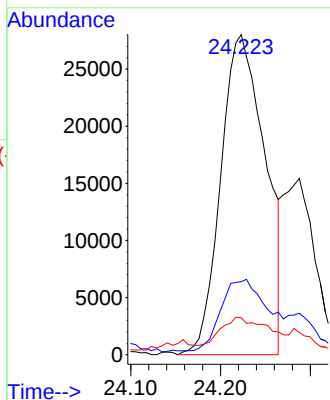
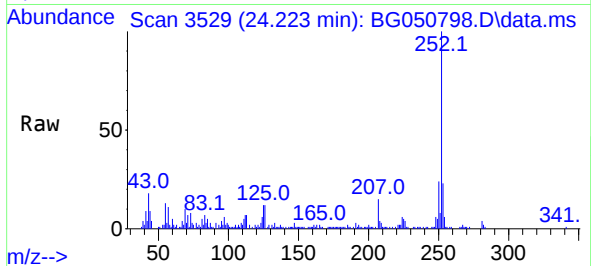
#88  
Benzo(b)fluoranthene  
Concen: 8.023 ng  
RT: 24.223 min Scan# 3529  
Delta R.T. 0.000 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

Instrument :  
BNA\_G  
ClientSampleId :  
HD-01-102921

Tgt Ion:252 Resp: 9622  
Ion Ratio Lower Upper  
252 100  
253 22.8 16.2 24.4  
125 11.5 3.0 4.4

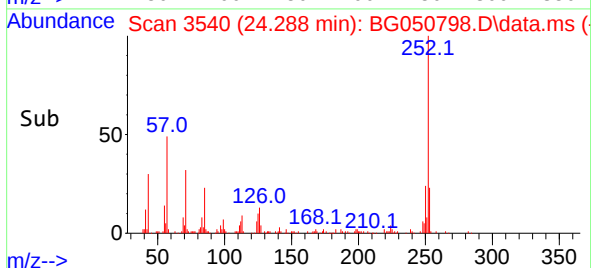
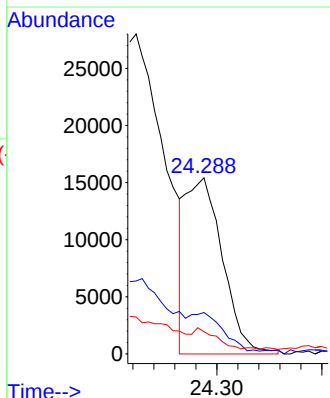
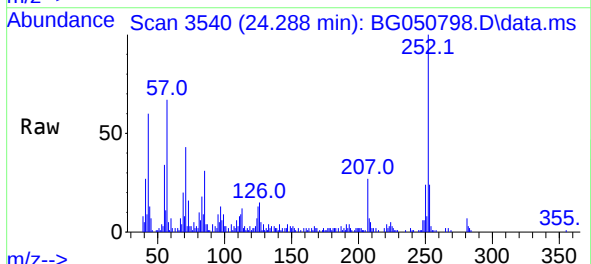
Manual Integrations  
APPROVED

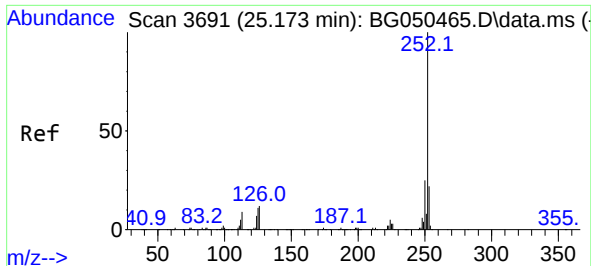
Reviewed By :Jagrut Upadhyay 11/02/2021  
Supervised By :mohammad ahmed 11/03/2021



#89  
Benzo(k)fluoranthene  
Concen: 3.195 ng m  
RT: 24.288 min Scan# 3540  
Delta R.T. -0.006 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

Tgt Ion:252 Resp: 37699  
Ion Ratio Lower Upper  
252 100  
253 23.6 18.0 27.0  
125 12.6 3.1 4.7





#90  
Benzo(a)pyrene  
Concen: 7.113 ng  
RT: 25.140 min Scan# 3685  
Delta R.T. -0.011 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

Instrument :

BNA\_G

ClientSampleId :

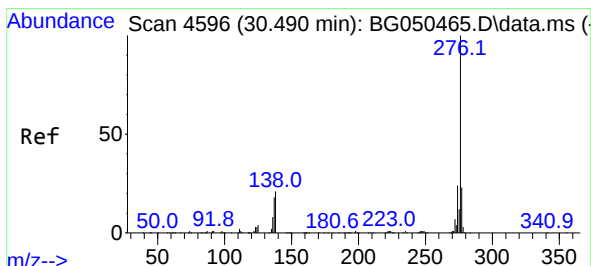
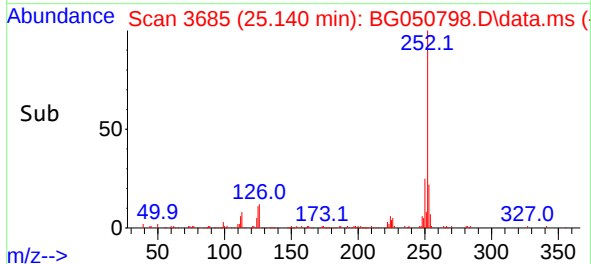
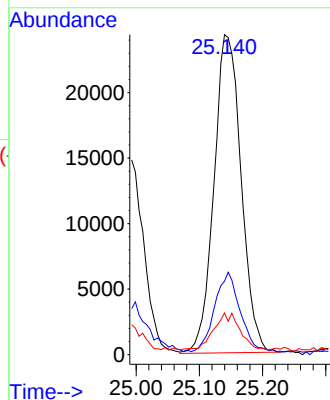
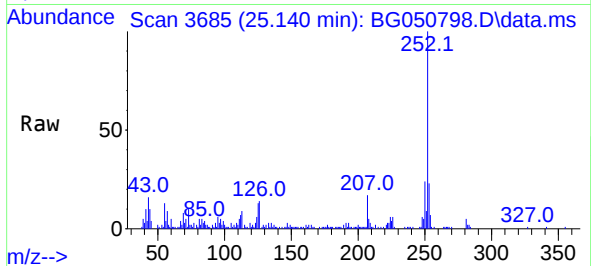
HD-01-102921

Tgt Ion:252 Resp: 72538  
Ion Ratio Lower Upper  
252 100  
253 23.0 16.6 25.0  
125 13.1 3.5 5.3

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/02/2021  
Supervised By :mohammad ahmed 11/03/2021



#92  
Benzo(g,h,i)perylene  
Concen: 3.802 ng  
RT: 30.445 min Scan# 4588  
Delta R.T. -0.023 min  
Lab File: BG050798.D  
Acq: 1 Nov 2021 14:32

Tgt Ion:276 Resp: 42014  
Ion Ratio Lower Upper  
276 100  
277 21.7 18.4 27.6  
138 18.7 7.0 10.6

