

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN020620\  
 Data File : BN009644.D  
 Acq On : 07 Feb 2020 12:36  
 Operator : CG/JU  
 Sample : L1324-08DL 5X  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleID :  
 GAT65DL

Manual Integrations  
 APPROVED

mohammad  
 2/11/2020 8:23:34 AM

Quant Time: Feb 10 12:27:49 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Feb 07 15:21:46 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.43  | 152  | 159492   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.18 | 136  | 685026   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.07 | 164  | 411238   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.83 | 188  | 843168   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.05 | 240  | 777276   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.16 | 264  | 873032   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.08  | 96  | 1204   | 0.31 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.64  | 99  | 36476  | 2.62 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.79  | 67  | 30297  | 3.24 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.98  | 132 | 30634  | 2.99 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.15  | 113 | 16343  | 1.48 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.58  | 128 | 15433  | 3.03 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.29  | 143 | 15213  | 2.68 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.83  | 165 | 27435  | 2.58 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 0.00  | 131 | 0d     | 0.00 | ng/ul |      |
| 43) Dimethylphthalate-d6       | 13.50 | 166 | 97283  | 3.24 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.76 | 160 | 120137 | 3.31 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.33 | 143 | 5901m  | 1.04 | ng/ul | 0.02 |
| 57) Fluorene-d10               | 15.07 | 176 | 92298  | 3.50 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.23 | 200 | 7708   | 1.46 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 16.93 | 188 | 137719 | 3.59 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.23 | 212 | 153511 | 3.76 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.03 | 264 | 150970 | 3.51 | ng/ul | 0.00 |

## Target Compounds

|                          |       |     |         |        | Ovalue |    |
|--------------------------|-------|-----|---------|--------|--------|----|
| 28) Naphthalene          | 10.23 | 128 | 1196782 | 32.216 | ng/ul  | 99 |
| 34) 2-Methylnaphthalene  | 11.86 | 142 | 1534375 | 59.021 | ng/ul  | 96 |
| 40) 1,1'-Biphenyl        | 12.89 | 154 | 51468   | 1.607  | ng/ul  | 96 |
| 47) Acenaphthylene       | 13.79 | 152 | 115027  | 2.898  | ng/ul# | 87 |
| 49) Acenaphthene         | 14.13 | 153 | 536372  | 19.876 | ng/ul  | 98 |
| 58) Fluorene             | 15.13 | 166 | 284417  | 9.056  | ng/ul  | 99 |
| 69) Phenanthrene         | 16.87 | 178 | 1343364 | 27.937 | ng/ul  | 98 |
| 71) Anthracene           | 16.96 | 178 | 336758  | 6.902  | ng/ul  | 98 |
| 76) Fluoranthene         | 18.90 | 202 | 401473  | 7.315  | ng/ul  | 99 |
| 79) Pyrene               | 19.26 | 202 | 780829  | 13.761 | ng/ul  | 97 |
| 82) Benzo(a)anthracene   | 21.03 | 228 | 248738m | 4.635  | ng/ul  |    |
| 84) Chrysene             | 21.08 | 228 | 203771  | 3.814  | ng/ul  | 99 |
| 87) Benzo(b)fluoranthene | 22.55 | 252 | 130819m | 2.395  | ng/ul  |    |
| 90) Benzo(a)pyrene       | 23.07 | 252 | 143298  | 2.832  | ng/ul# | 94 |

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

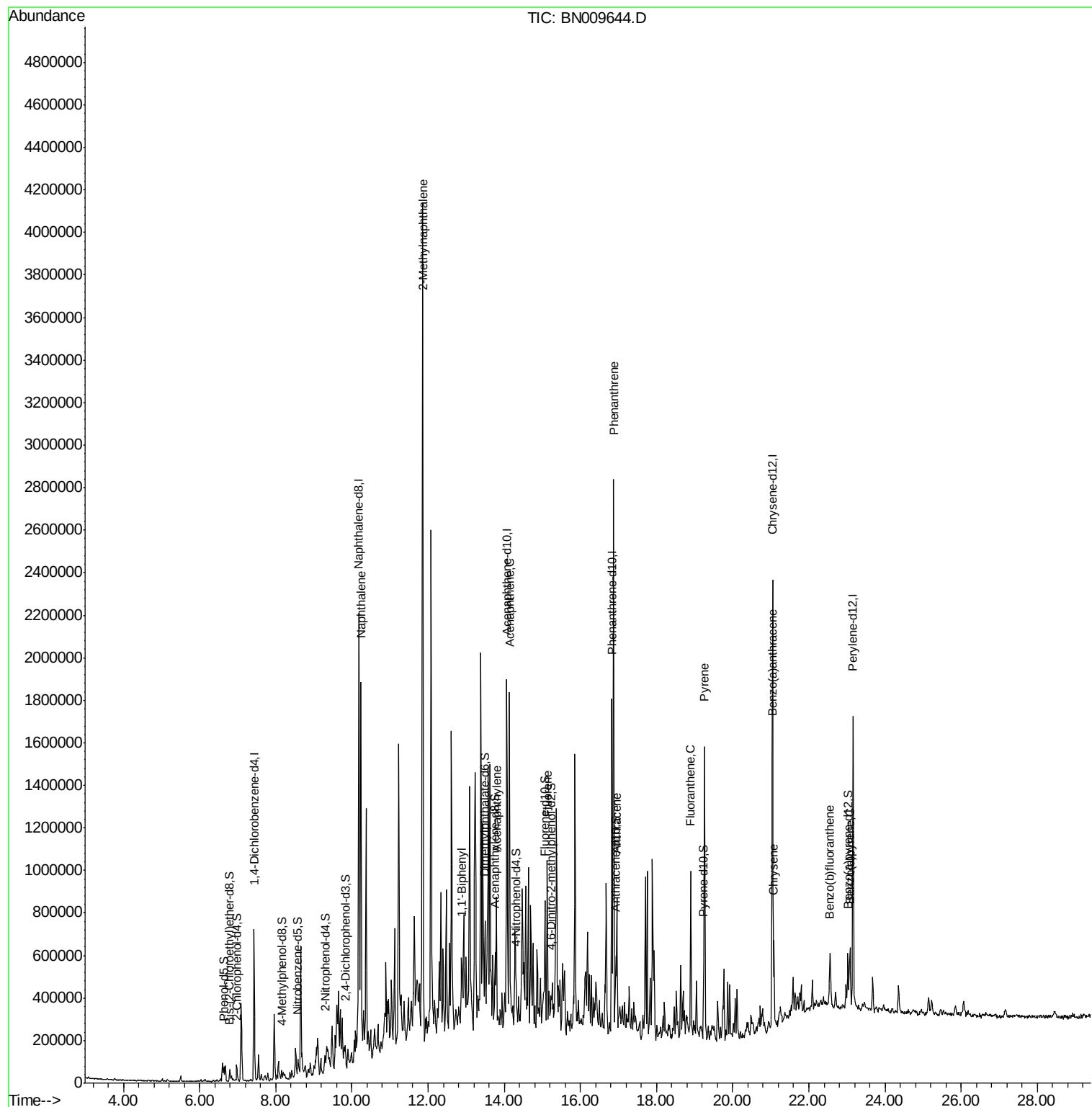
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN020620\  
Data File : BN009644.D  
Acq On : 07 Feb 2020 12:36  
Operator : CG/JU  
Sample : L1324-08DL 5X  
Misc :  
ALS Vial : 39 Sample Multiplier: 1

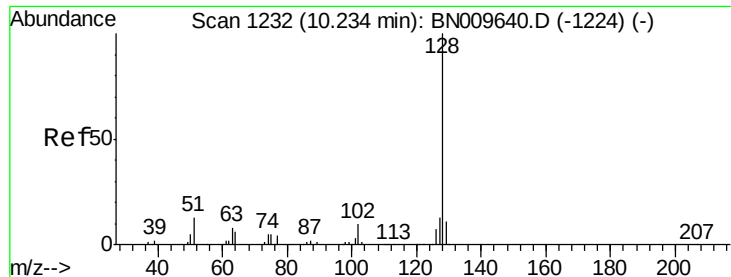
Instrument :  
BNA\_N  
ClientSampleId :  
GAT65DL

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Quant Time: Feb 10 12:27:49 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Feb 07 15:21:46 2020  
Response via : Initial Calibration





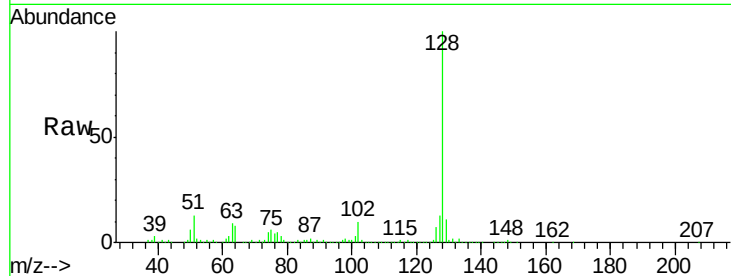
#28  
Naphthalene  
Concen: 32.216 ng/ul  
RT: 10.23 min Scan# 1232  
Delta R.T. 0.00 min  
Lab File: BN009644.D  
Acq: 07 Feb 2020 12:36

Instrument :  
BNA\_N  
ClientSampleId :  
GAT65DL

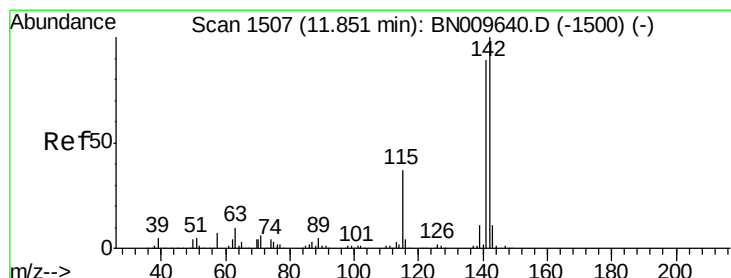
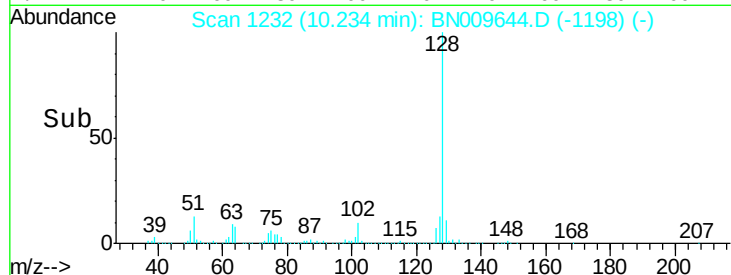
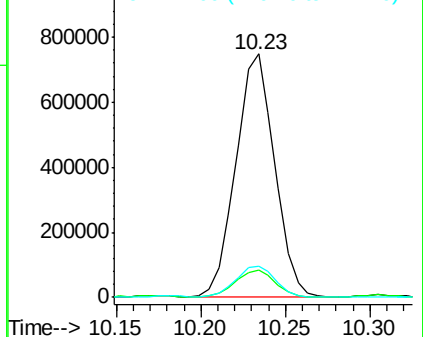
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.0  | 8.7   | 13.1  |
| 127     | 12.6  | 10.7  | 16.1  |

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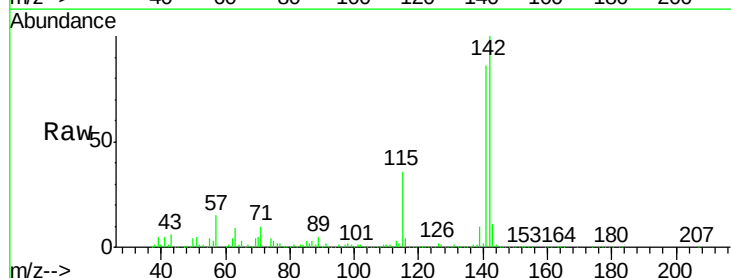


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

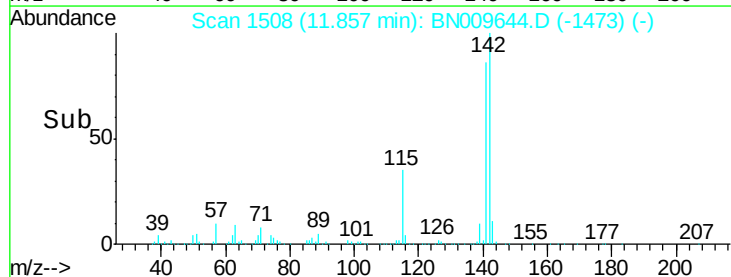
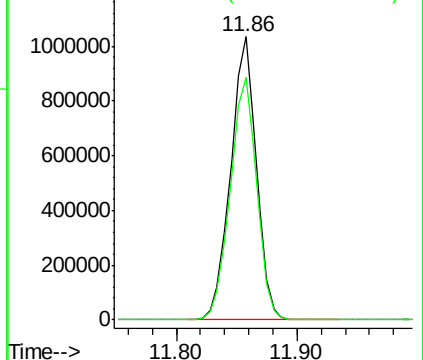


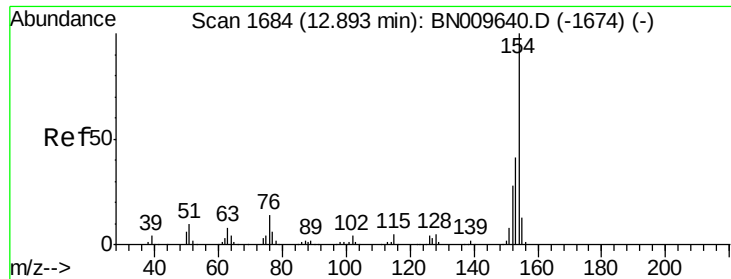
#34  
2-Methylnaphthalene  
Concen: 59.021 ng/ul  
RT: 11.86 min Scan# 1508  
Delta R.T. 0.01 min  
Lab File: BN009644.D  
Acq: 07 Feb 2020 12:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 85.8  | 71.5  | 107.3 |



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E





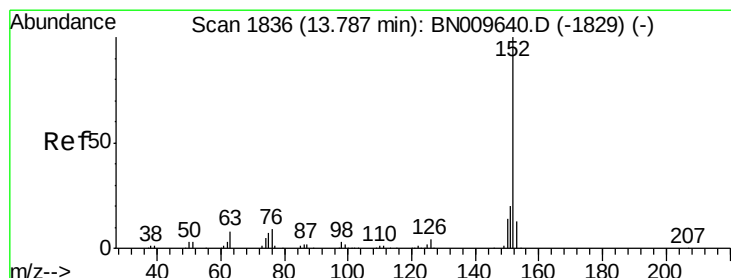
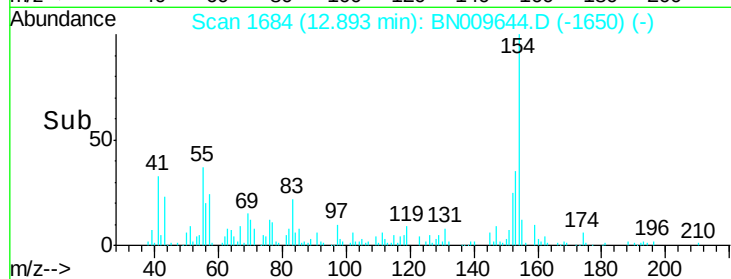
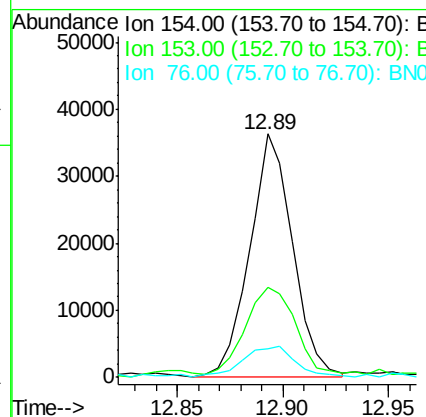
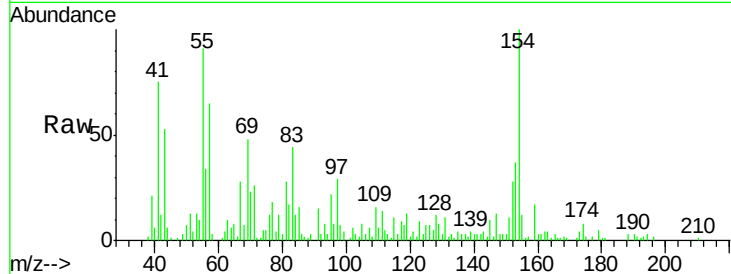
#40  
 1,1'-Biphenyl  
 Concen: 1.607 ng/ul  
 RT: 12.89 min Scan# 1684  
 Delta R.T. 0.00 min  
 Lab File: BN009644.D  
 Acq: 07 Feb 2020 12:36

Instrument :  
 BNA\_N  
 ClientSampled :  
 GAT65DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 51468 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 36.8  | 31.2  | 46.8  |
| 76        | 11.9  | 11.4  | 17.2  |

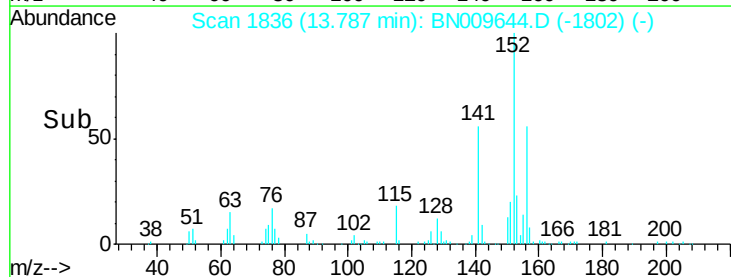
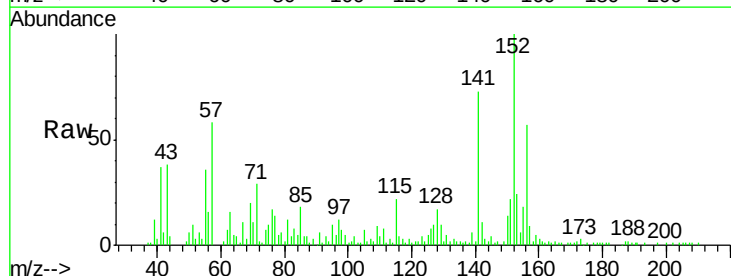
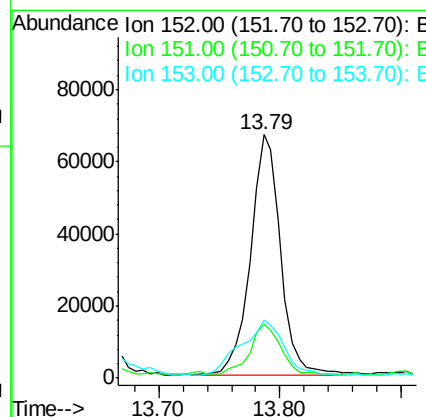
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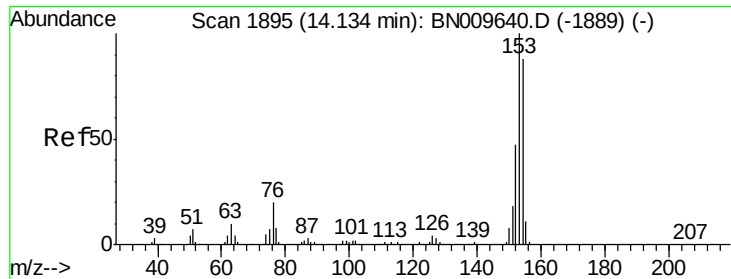
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 2/11/2020 8:23:34 AM



#47  
 Acenaphthylene  
 Concen: 2.898 ng/ul  
 RT: 13.79 min Scan# 1836  
 Delta R.T. 0.00 min  
 Lab File: BN009644.D  
 Acq: 07 Feb 2020 12:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 115027 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 22.4  | 16.2  | 24.2   |
| 153       | 23.7  | 10.6  | 15.8#  |





#49

Acenaphthene

Concen: 19.876 ng/ul

RT: 14.13 min Scan# 1895

Delta R.T. 0.00 min

Lab File: BN009644.D

Acq: 07 Feb 2020 12:36

Instrument :

BNA\_N

ClientSampled :

GAT65DL

Tot Ion:153 Resp: 536372

Ion Ratio Lower Upper

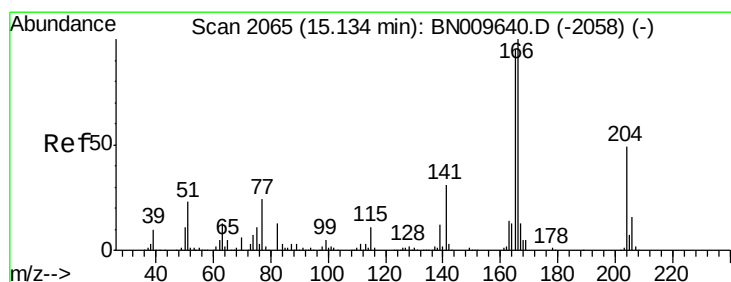
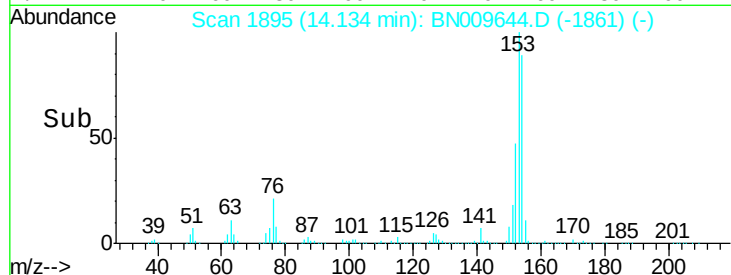
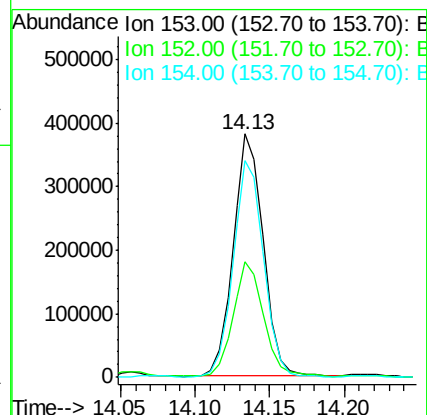
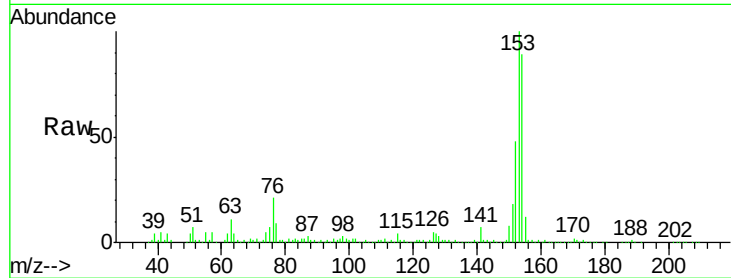
153 100

152 47.5 37.3 55.9

154 89.2 70.2 105.2

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#58

Fluorene

Concen: 9.056 ng/ul

RT: 15.13 min Scan# 2065

Delta R.T. 0.00 min

Lab File: BN009644.D

Acq: 07 Feb 2020 12:36

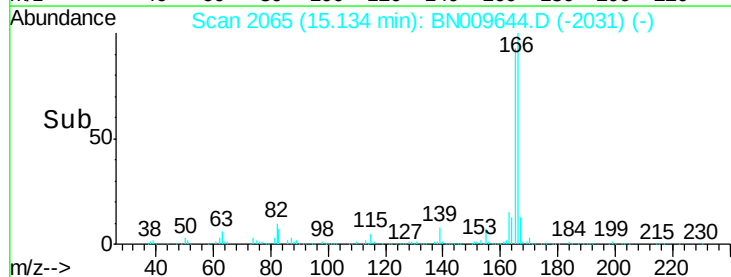
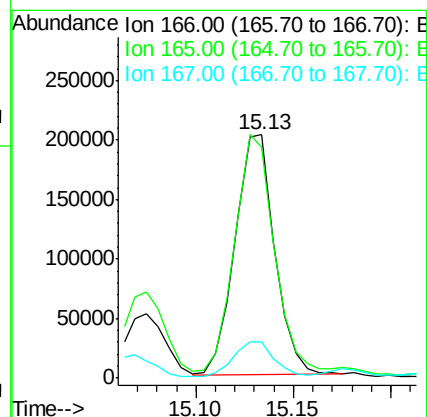
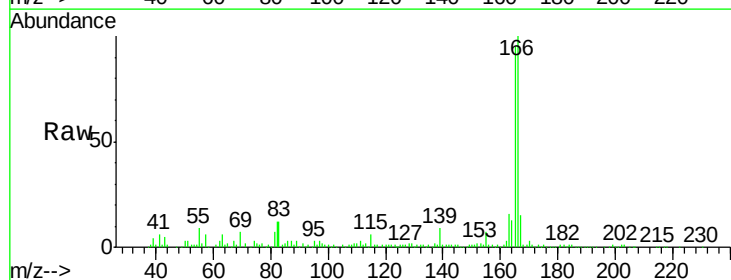
Tgt Ion:166 Resp: 284417

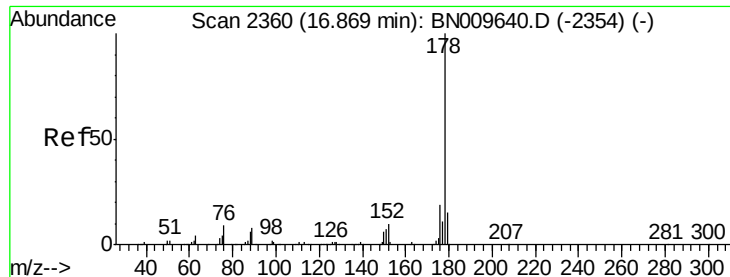
Ion Ratio Lower Upper

166 100

165 95.0 76.7 115.1

167 14.8 11.1 16.7





#69

Phenanthrene

Concen: 27.937 ng/ul

RT: 16.87 min Scan# 2360

Delta R.T. 0.00 min

Lab File: BN009644.D

Acq: 07 Feb 2020 12:36

Instrument :

BNA\_N

ClientSampled :

GAT65DL

Tot Ion:178 Resp: 1343364

Ion Ratio Lower Upper

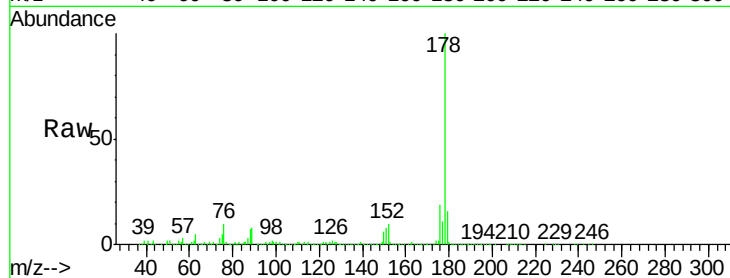
178 100

179 15.8 12.2 18.2

176 19.3 14.8 22.2

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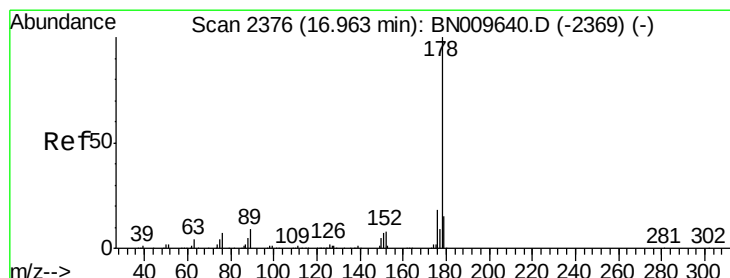
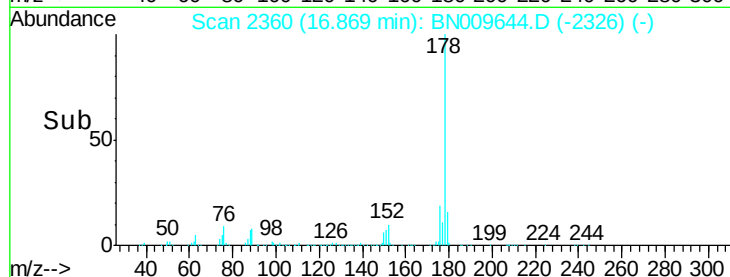
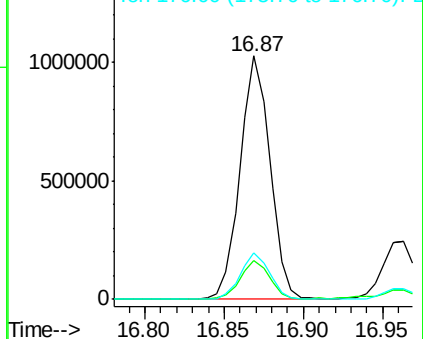
mohammad  
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 6.902 ng/ul

RT: 16.96 min Scan# 2376

Delta R.T. 0.00 min

Lab File: BN009644.D

Acq: 07 Feb 2020 12:36

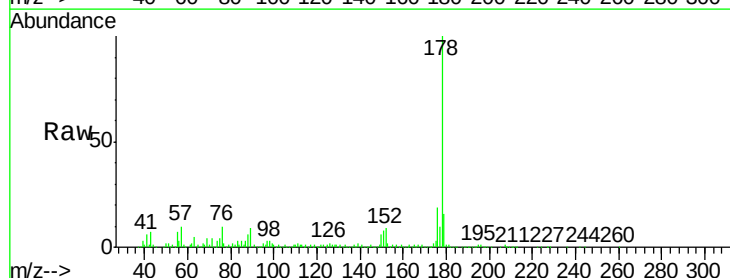
Tgt Ion:178 Resp: 336758

Ion Ratio Lower Upper

178 100

179 16.1 12.1 18.1

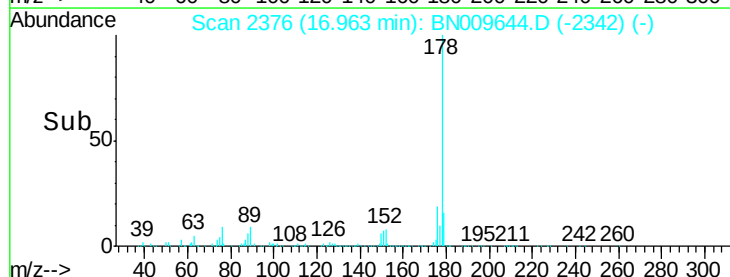
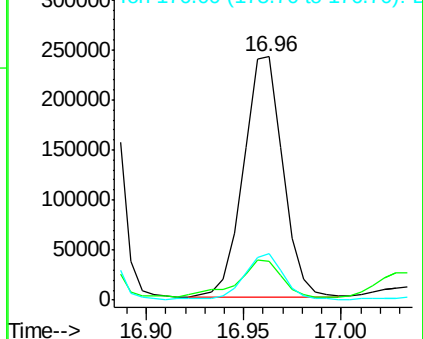
176 19.1 14.6 21.8

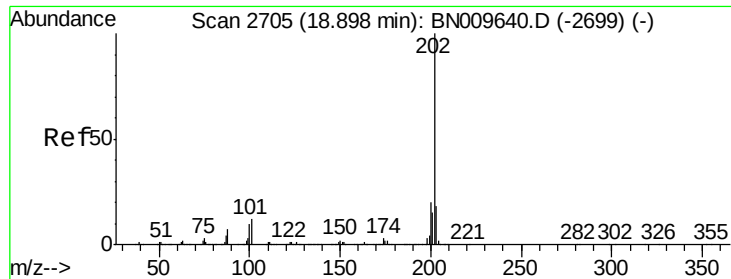


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





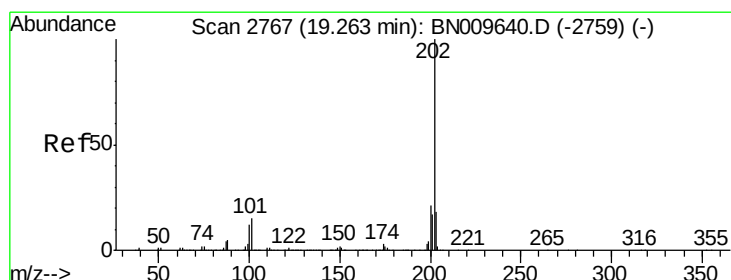
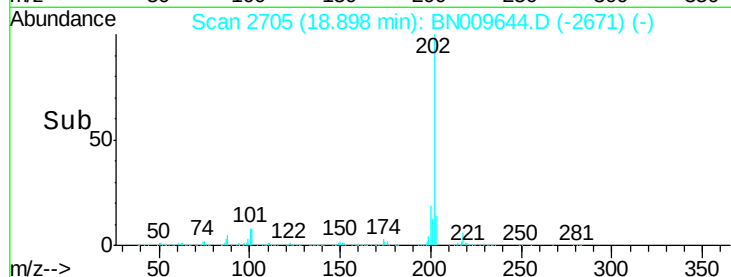
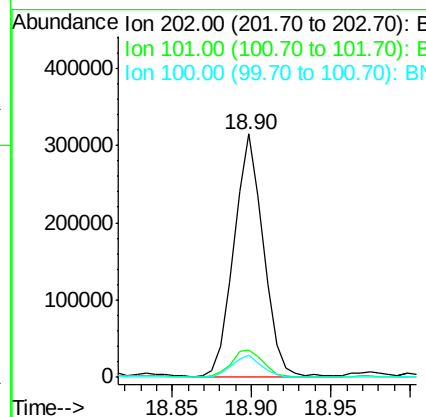
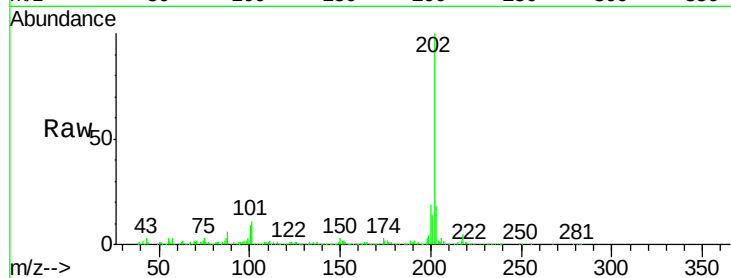
#76  
Fluoranthene  
Concen: 7.315 ng/ul  
RT: 18.90 min Scan# 2705  
Delta R.T. 0.00 min  
Lab File: BN009644.D  
Acq: 07 Feb 2020 12:36

Instrument :  
BNA\_N  
ClientSampleId :  
GAT65DL

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 11.3  | 9.2        | 13.8  |
| 100     | 8.9   | 6.9        | 10.3  |

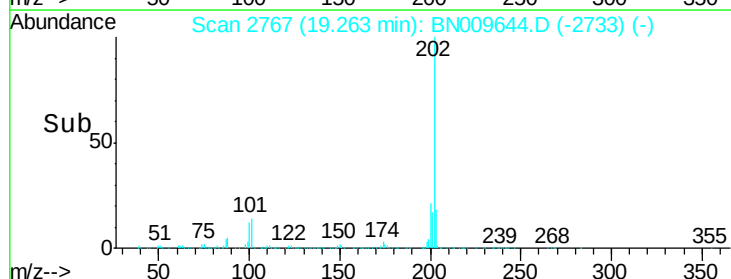
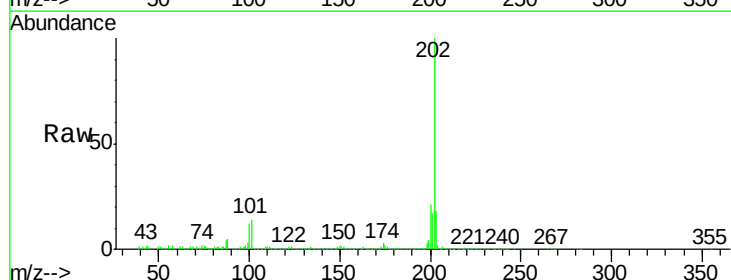
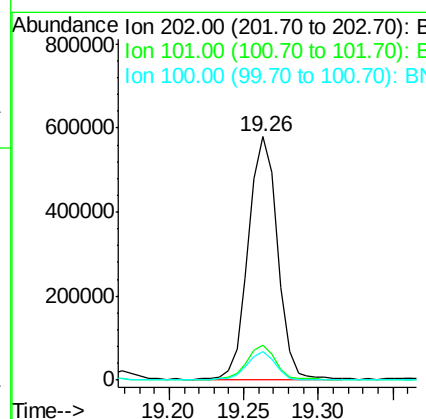
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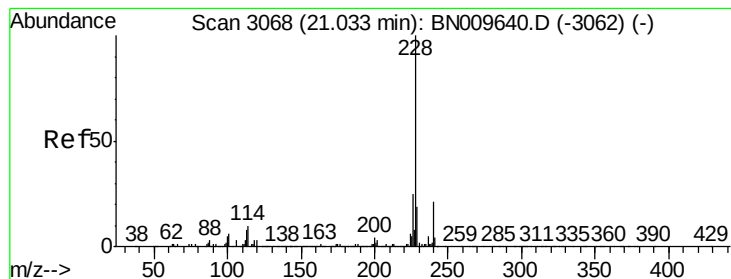
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#79  
Pyrene  
Concen: 13.761 ng/ul  
RT: 19.26 min Scan# 2767  
Delta R.T. 0.00 min  
Lab File: BN009644.D  
Acq: 07 Feb 2020 12:36

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 14.2  | 10.3       | 15.5  |
| 100     | 11.8  | 8.4        | 12.6  |





#82

Benzo(a)anthracene

Concen: 4.635 ng/ul m

RT: 21.03 min Scan# 3067

Delta R.T. -0.01 min

Lab File: BN009644.D

Acq: 07 Feb 2020 12:36

Instrument :

BNA\_N

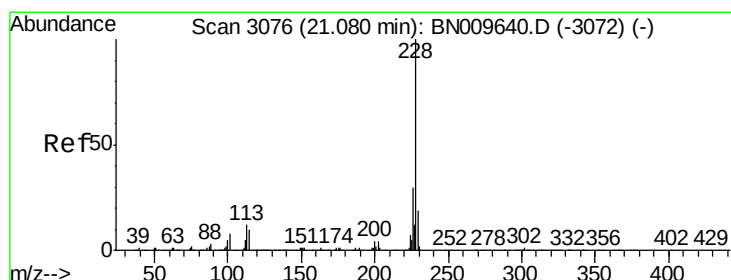
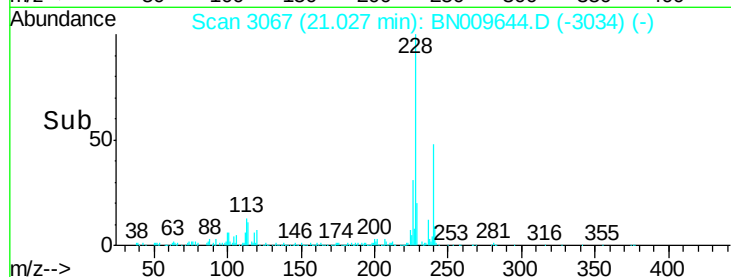
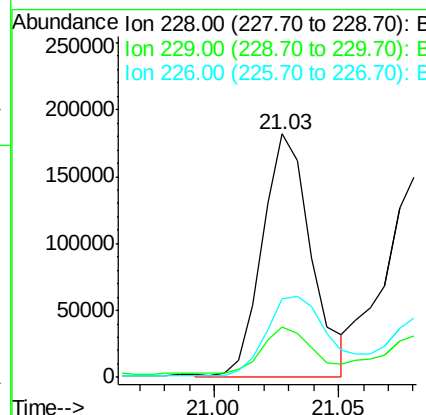
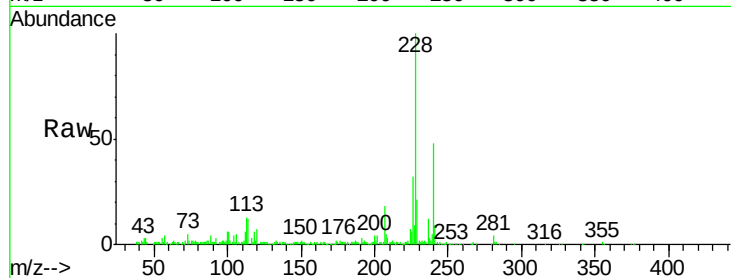
ClientSampled :

GAT65DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 248738 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 20.8  | 15.0  | 22.4   |
| 226       | 32.2  | 20.9  | 31.3#  |

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#84

Chrysene

Concen: 3.814 ng/ul

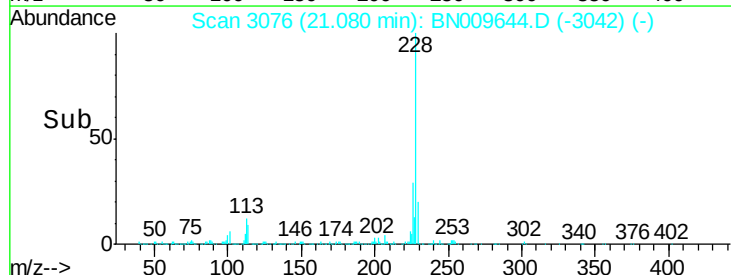
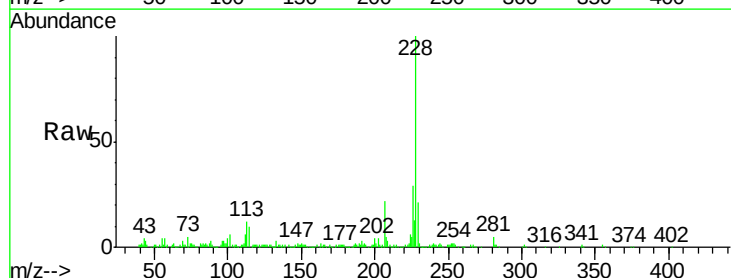
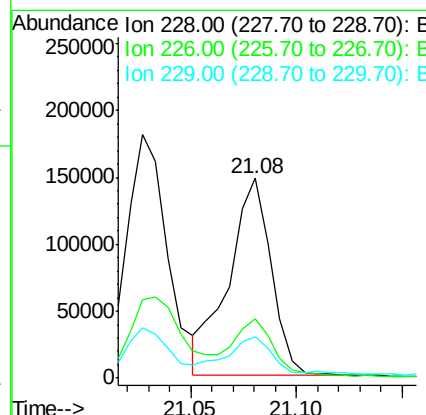
RT: 21.08 min Scan# 3076

Delta R.T. 0.00 min

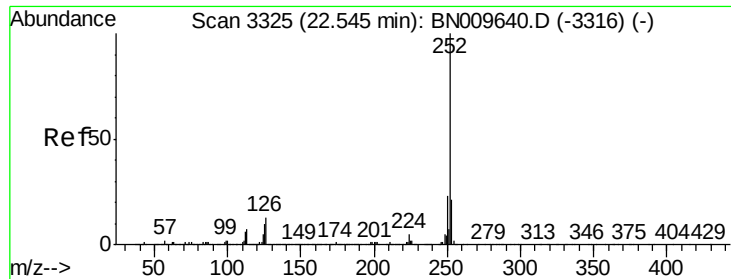
Lab File: BN009644.D

Acq: 07 Feb 2020 12:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 203771 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.4  | 23.5  | 35.3   |
| 229       | 20.9  | 15.8  | 23.8   |







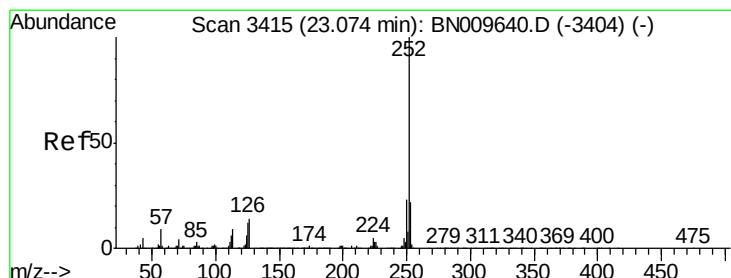
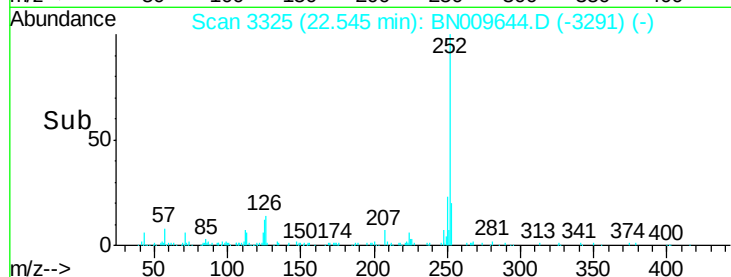
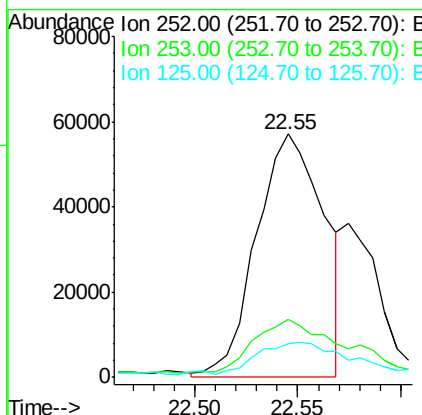
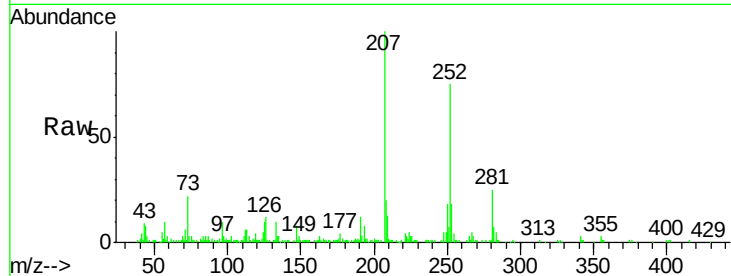
#87  
Benzo(b)fluoranthene  
Concen: 2.395 ng/ul m  
RT: 22.55 min Scan# 3325  
Delta R.T. 0.00 min  
Lab File: BN009644.D  
Acq: 07 Feb 2020 12:36

Instrument :  
BNA\_N  
ClientSampleId :  
GAT65DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 17.0  | 25.6  |
| 125     | 14.0  | 8.2   | 12.2# |

Manual Integrations  
APPROVED

mohammad  
2/11/2020 8:23:34 AM



#90  
Benzo(a)pyrene  
Concen: 2.832 ng/ul  
RT: 23.07 min Scan# 3414  
Delta R.T. -0.01 min  
Lab File: BN009644.D  
Acq: 07 Feb 2020 12:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 15.8  | 23.8  |
| 125     | 13.4  | 8.7   | 13.1# |

