

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102219\  
 Data File : BM023334.D  
 Acq On : 23 Oct 2019 00:19  
 Operator : JU  
 Sample : K5354-06  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BFBB2

Manual Integrations  
 APPROVED

mohammad  
 10/24/2019 8:09:06 AM

Quant Time: Oct 23 04:27:32 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM101419MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Oct 23 01:39:41 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.65  | 152  | 421635   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.43 | 136  | 1687227  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.29 | 164  | 1052860  | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.04 | 188  | 2204305  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.23 | 240  | 2217173  | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.44 | 264  | 2713653  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.17  | 96  | 34273   | 3.58  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.82  | 99  | 579316  | 15.78 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.99  | 67  | 350520  | 16.87 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.18  | 132 | 489966  | 17.43 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.36  | 113 | 406622  | 13.78 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.79  | 128 | 240792  | 21.09 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.51  | 143 | 267824  | 24.64 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.05 | 165 | 497950  | 18.01 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.56 | 131 | 151040  | 4.49  | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.71 | 166 | 1572517 | 19.49 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.98 | 160 | 1871620 | 19.78 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.50 | 143 | 152972  | 11.71 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.29 | 176 | 1407897 | 20.48 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.41 | 200 | 140597  | 16.09 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.14 | 188 | 2166128 | 20.38 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.43 | 212 | 2349423 | 21.88 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.30 | 264 | 2819543 | 20.50 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Ovalue    |
|--------------------------------|-------|-----|---------|--------|-----------|
| 6) Phenol                      | 6.85  | 94  | 67896   | 1.793  | ng/ul 100 |
| 45) Dimethylphthalate          | 13.76 | 163 | 635520  | 7.869  | ng/ul 100 |
| 48) Acenaphthylene             | 14.01 | 152 | 186100  | 1.923  | ng/ul 98  |
| 70) Phenanthrene               | 17.08 | 178 | 642574  | 5.194  | ng/ul 99  |
| 72) Anthracene                 | 17.17 | 178 | 201577  | 1.577  | ng/ul 99  |
| 77) Fluoranthene               | 19.10 | 202 | 1785814 | 12.138 | ng/ul 98  |
| 80) Pyrene                     | 19.46 | 202 | 1815224 | 13.069 | ng/ul 98  |
| 83) Benzo(a)anthracene         | 21.22 | 228 | 1232751 | 8.206  | ng/ul 94  |
| 84) Bis(2-ethylhexyl)phthalate | 21.17 | 149 | 171237  | 2.229  | ng/ul# 97 |
| 85) Chrysene                   | 21.27 | 228 | 1215181 | 8.711  | ng/ul 96  |
| 88) Benzo(b)fluoranthene       | 22.78 | 252 | 1759351 | 10.693 | ng/ul 98  |
| 89) Benzo(k)fluoranthene       | 22.82 | 252 | 534647m | 3.384  | ng/ul     |
| 91) Benzo(a)pyrene             | 23.34 | 252 | 1314784 | 8.329  | ng/ul 98  |
| 92) Indeno(1,2,3-cd)pyrene     | 25.64 | 276 | 963443  | 5.131  | ng/ul 97  |
| 93) Dibenzo(a,h)anthracene     | 25.66 | 278 | 275910  | 1.757  | ng/ul# 93 |
| 94) Benzo(g,h,i)perylene       | 26.32 | 276 | 947004  | 6.125  | ng/ul 99  |

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

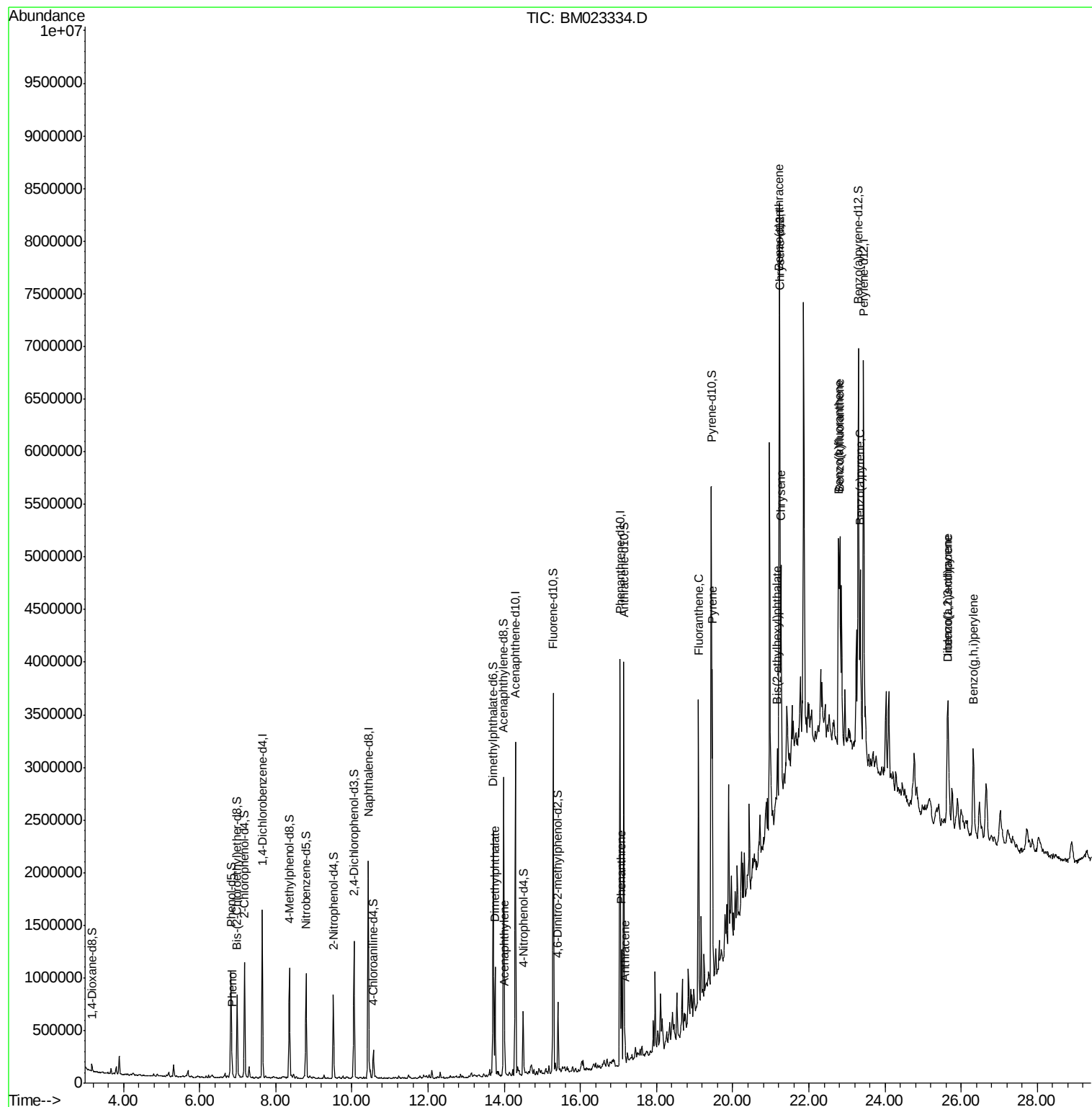
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102219\  
Data File : BM023334.D  
Acq On : 23 Oct 2019 00:19  
Operator : JU  
Sample : K5354-06  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

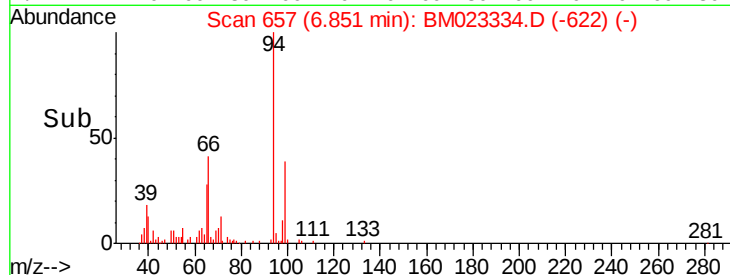
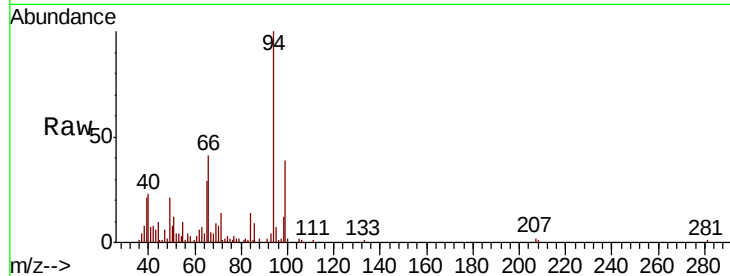
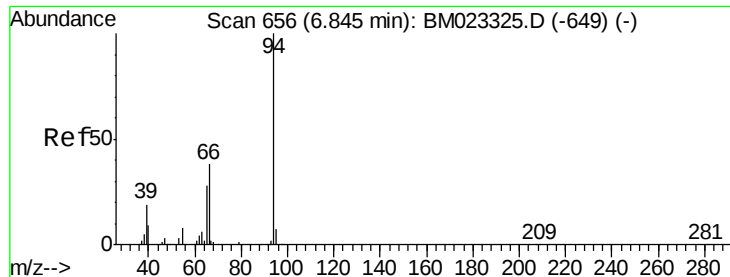
Instrument :  
BNA\_M  
ClientSampleId :  
BFBB2

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Quant Time: Oct 23 04:27:32 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM101419MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Oct 23 01:39:41 2019  
Response via : Initial Calibration





#6

Phenol

Concen: 1.793 ng/ul

RT: 6.85 min Scan# 657

Delta R.T. 0.01 min

Lab File: BM023334.D

Acq: 23 Oct 2019 00:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 94    | Resp: | 67896 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 29.5  | 23.2  | 34.8  |
| 66       | 41.1  | 32.9  | 49.3  |

Instrument :

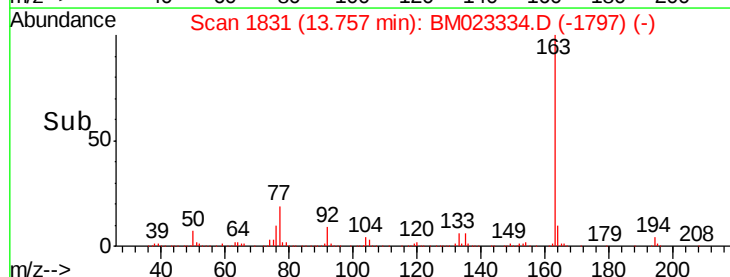
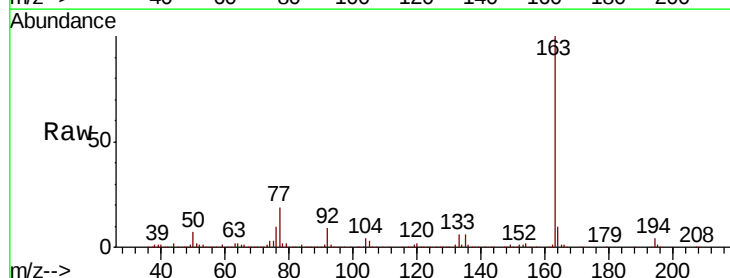
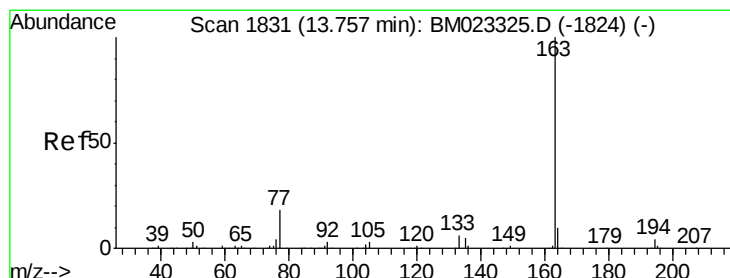
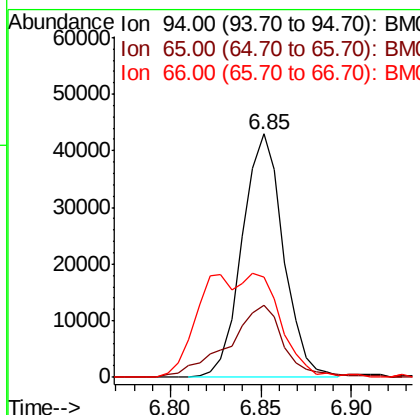
BNA\_M

ClientSampleId :

BFBB2

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#45

Dimethylphthalate

Concen: 7.869 ng/ul

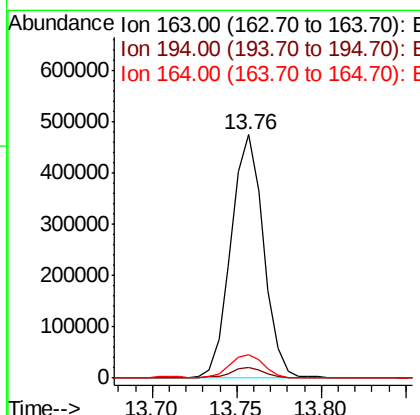
RT: 13.76 min Scan# 1831

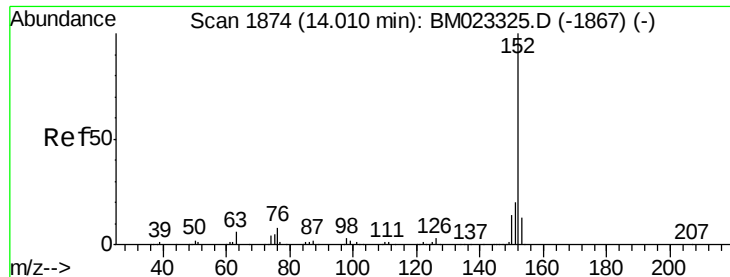
Delta R.T. 0.00 min

Lab File: BM023334.D

Acq: 23 Oct 2019 00:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 163   | Resp: | 635520 |
| Ion      | Ratio | Lower | Upper  |
| 163      | 100   |       |        |
| 194      | 4.5   | 3.4   | 5.2    |
| 164      | 9.9   | 7.8   | 11.6   |





#48

Acenaphthylene

Concen: 1.923 ng/ul

RT: 14.01 min Scan# 1874

Delta R.T. 0.00 min

Lab File: BM023334.D

Acq: 23 Oct 2019 00:19

Instrument :

BNA\_M

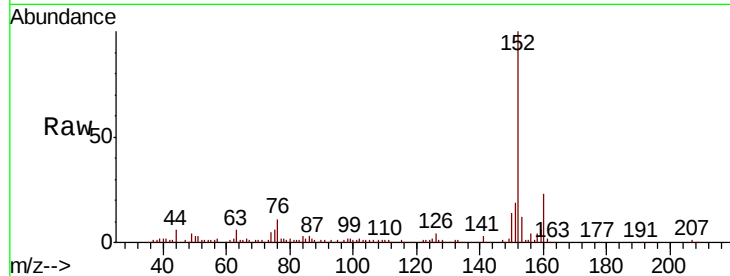
ClientSampleId :

BFB2

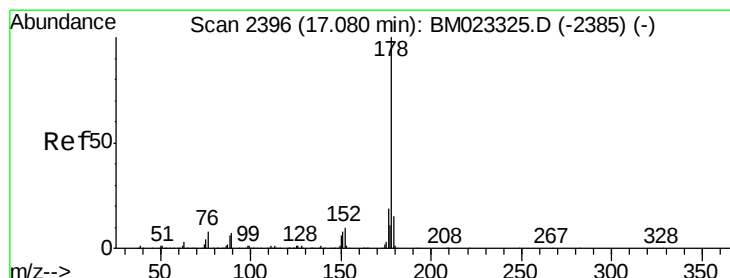
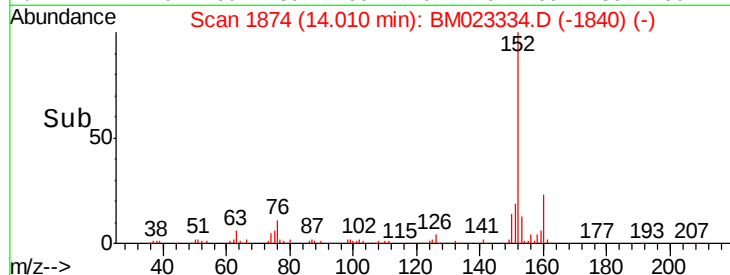
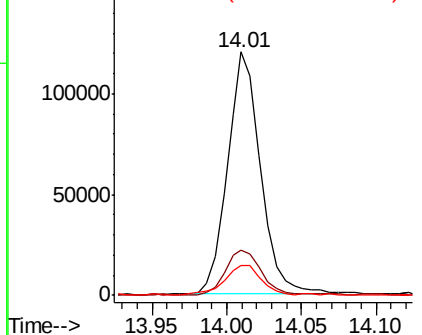
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 152  | Resp: | 186100 |
| Ion Ratio |      | Lower | Upper  |
| 152       | 100  |       |        |
| 151       | 18.7 | 15.9  | 23.9   |
| 153       | 12.5 | 10.3  | 15.5   |

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Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#70

Phenanthrene

Concen: 5.194 ng/ul

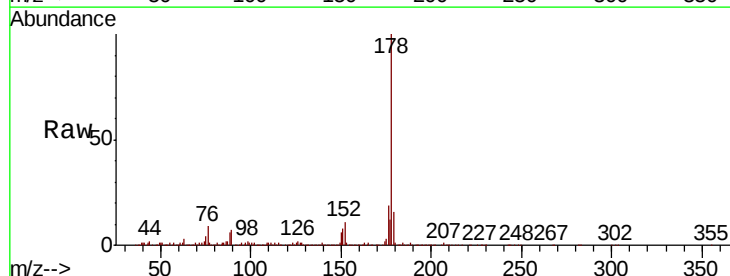
RT: 17.08 min Scan# 2396

Delta R.T. 0.00 min

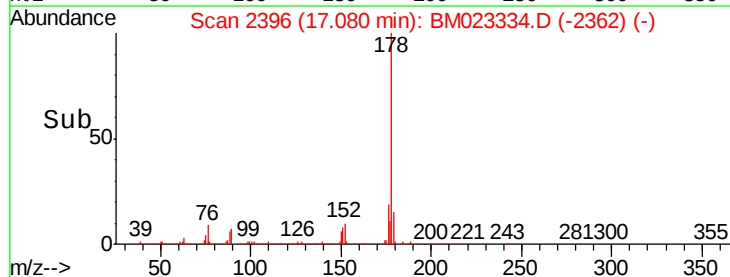
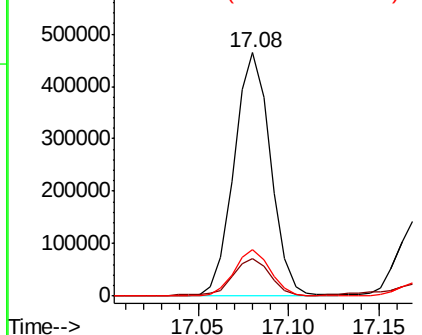
Lab File: BM023334.D

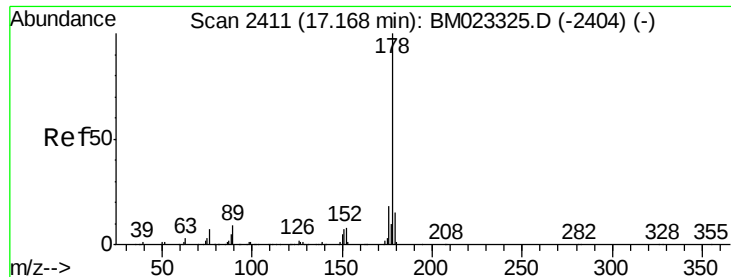
Acq: 23 Oct 2019 00:19

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 178  | Resp: | 642574 |
| Ion Ratio |      | Lower | Upper  |
| 178       | 100  |       |        |
| 179       | 15.6 | 11.7  | 17.5   |
| 176       | 18.8 | 15.0  | 22.4   |



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





#72

Anthracene

Concen: 1.577 ng/ul

RT: 17.17 min Scan# 2411

Delta R.T. 0.00 min

Lab File: BM023334.D

Acq: 23 Oct 2019 00:19

Instrument :

BNA\_M

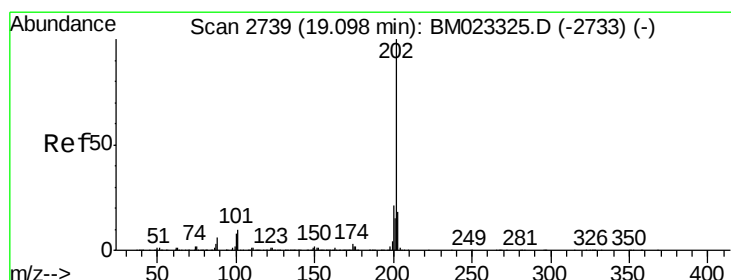
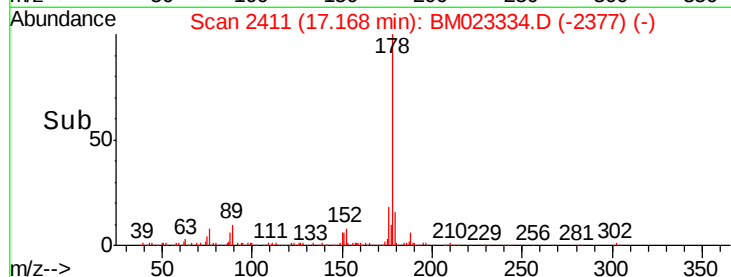
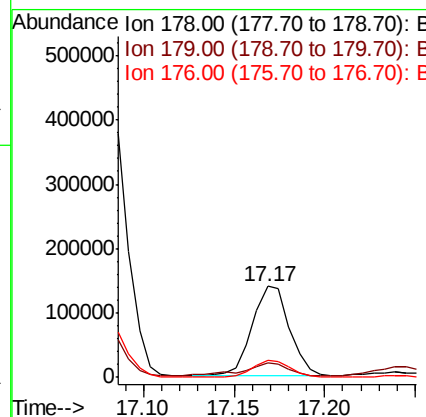
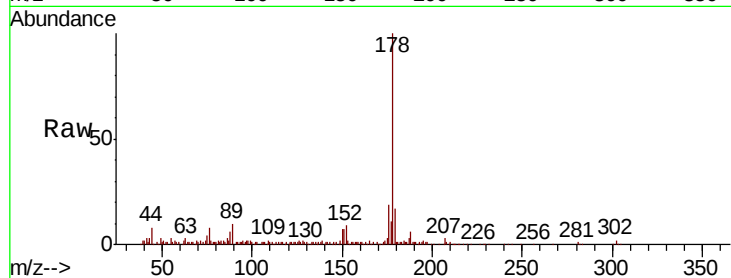
ClientSampled :

BFBB2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 201577 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.5  | 12.5  | 18.7   |
| 176       | 18.6  | 14.8  | 22.2   |

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#77

Fluoranthene

Concen: 12.138 ng/ul

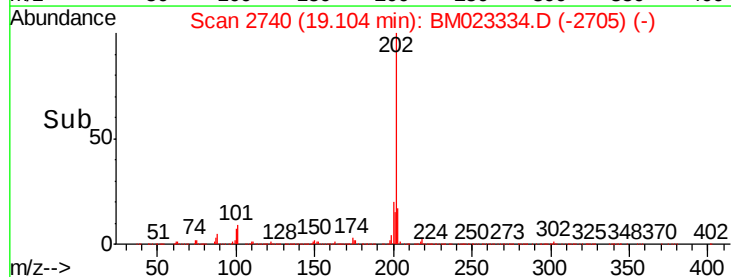
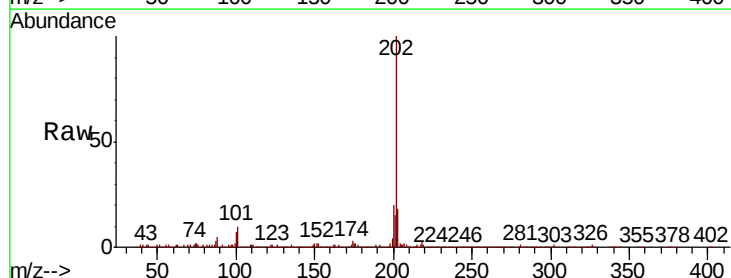
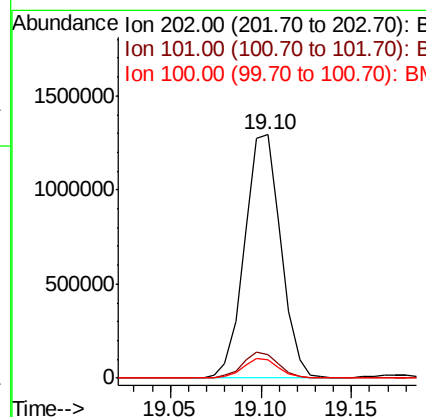
RT: 19.10 min Scan# 2740

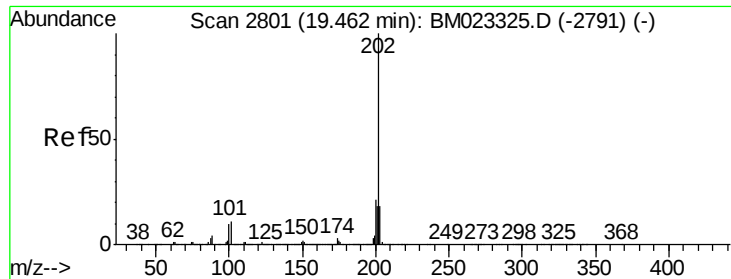
Delta R.T. 0.01 min

Lab File: BM023334.D

Acq: 23 Oct 2019 00:19

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1785814 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 9.5   | 8.2   | 12.4    |
| 100       | 7.3   | 6.1   | 9.1     |





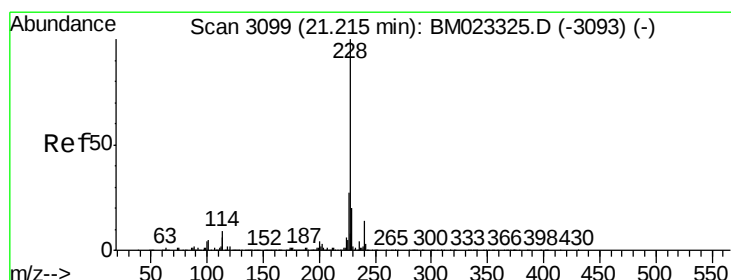
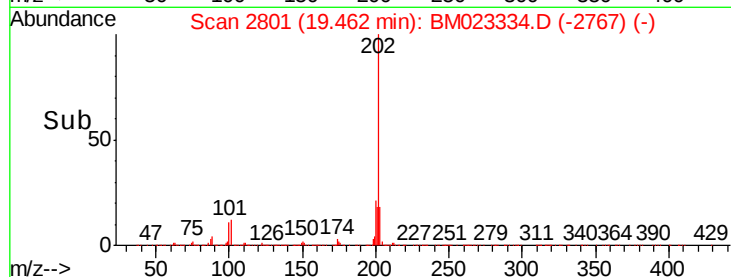
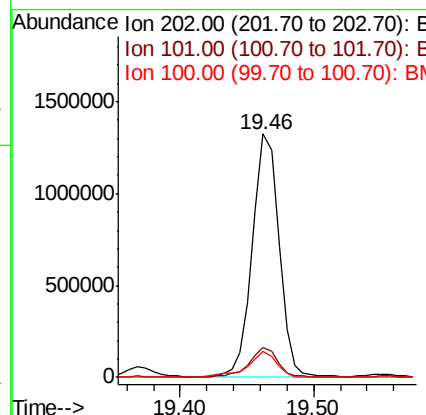
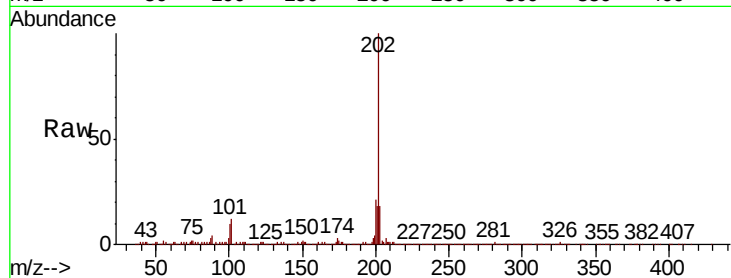
#80  
Pvrene  
Concen: 13.069 ng/ul  
RT: 19.46 min Scan# 2801  
Delta R.T. 0.00 min  
Lab File: BM023334.D  
Acq: 23 Oct 2019 00:19

Instrument :  
BNA\_M  
ClientSampleId :  
BFBB2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.1  | 9.0   | 13.6  |
| 100     | 10.5  | 7.5   | 11.3  |

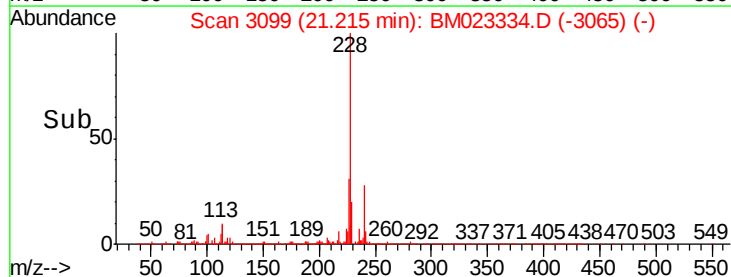
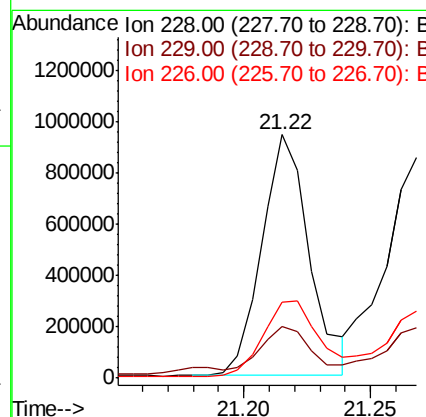
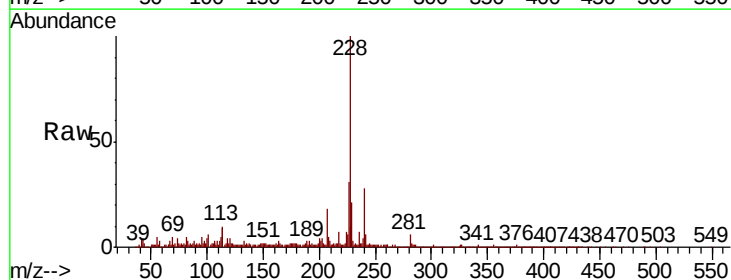
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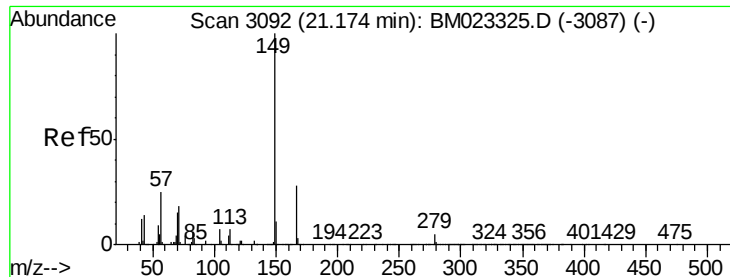
mohammad  
10/24/2019 8:09:06 AM



#83  
Benzo(a)anthracene  
Concen: 8.206 ng/ul  
RT: 21.22 min Scan# 3099  
Delta R.T. 0.00 min  
Lab File: BM023334.D  
Acq: 23 Oct 2019 00:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.4  | 15.8  | 23.8  |
| 226     | 31.4  | 21.5  | 32.3  |





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.229 ng/ul

RT: 21.17 min Scan# 3092

Delta R.T. 0.00 min

Lab File: BM023334.D

Acq: 23 Oct 2019 00:19

Instrument :

BNA\_M

ClientSampleId :

BFBB2

Tot Ion:149 Resp: 171237  
Ion Ratio Lower Upper

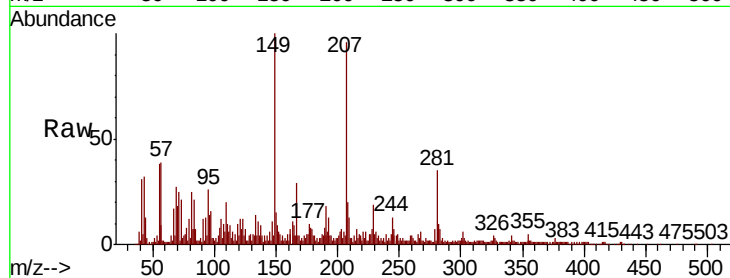
149 100

167 29.1 22.1 33.1

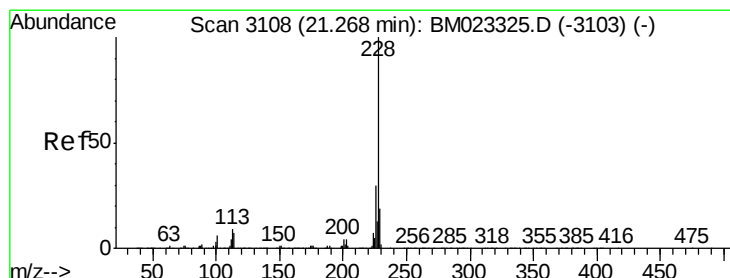
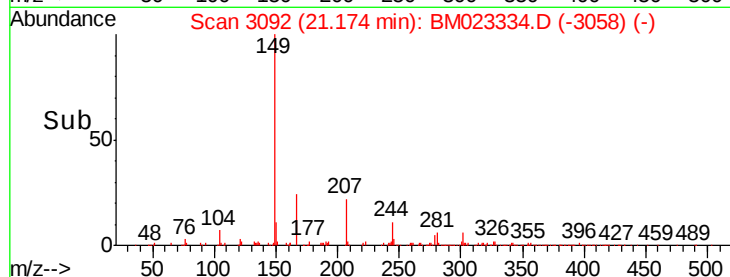
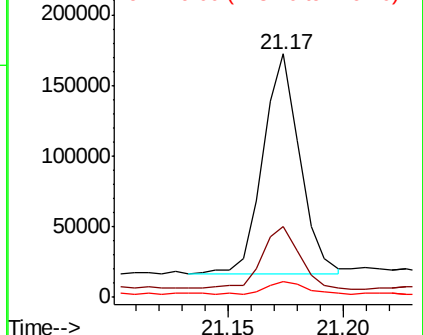
279 6.5 4.3 6.5#

Manual Integrations  
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Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E



#85

Chrysene

Concen: 8.711 ng/ul

RT: 21.27 min Scan# 3108

Delta R.T. 0.00 min

Lab File: BM023334.D

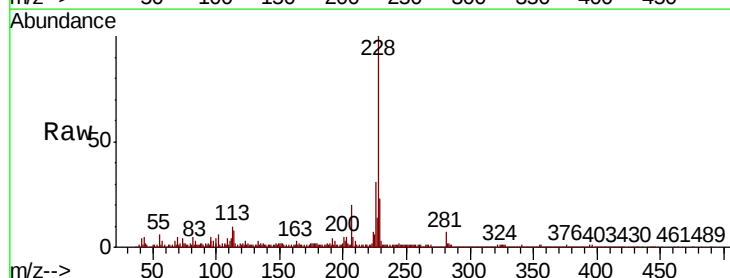
Acq: 23 Oct 2019 00:19

Tgt Ion:228 Resp: 1215181  
Ion Ratio Lower Upper

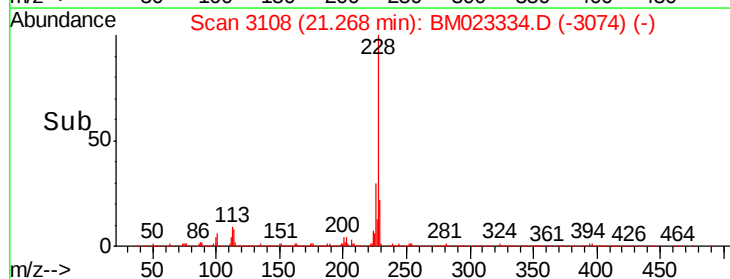
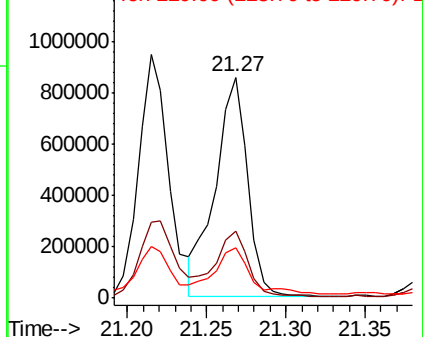
228 100

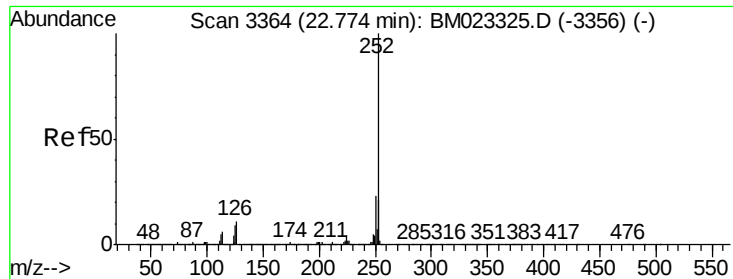
226 30.5 23.4 35.0

229 22.8 15.5 23.3



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





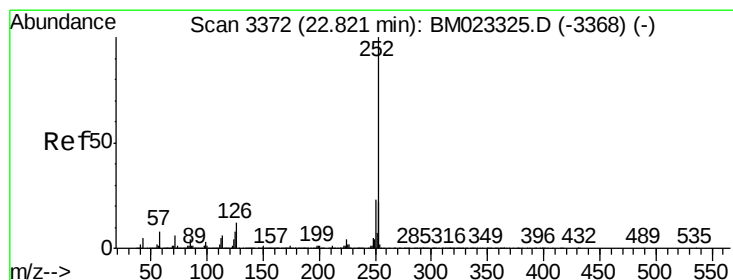
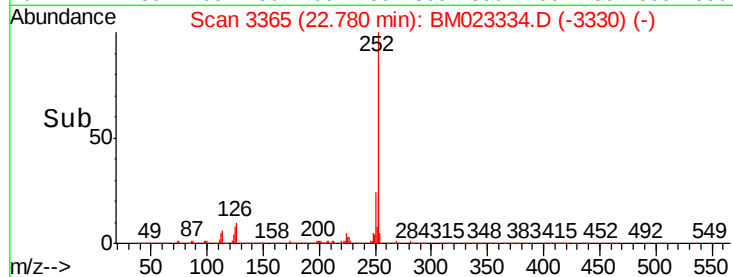
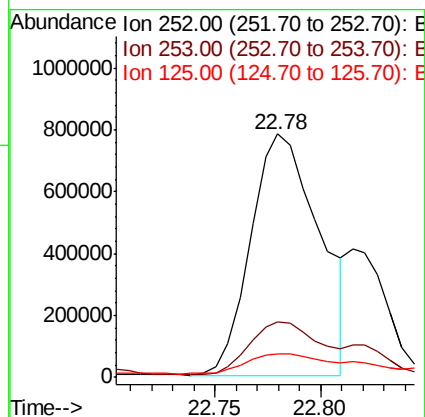
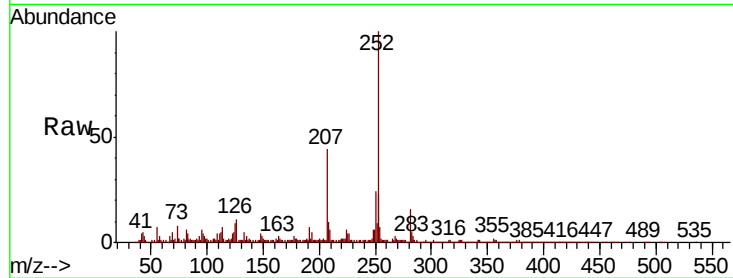
#88  
Benzo(b)fluoranthene  
Concen: 10.693 ng/ul  
RT: 22.78 min Scan# 3365  
Delta R.T. 0.01 min  
Lab File: BM023334.D  
Acq: 23 Oct 2019 00:19

Instrument :  
BNA\_M  
ClientSampleId :  
BFBB2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 17.3  | 25.9  |
| 125     | 9.4   | 7.0   | 10.4  |

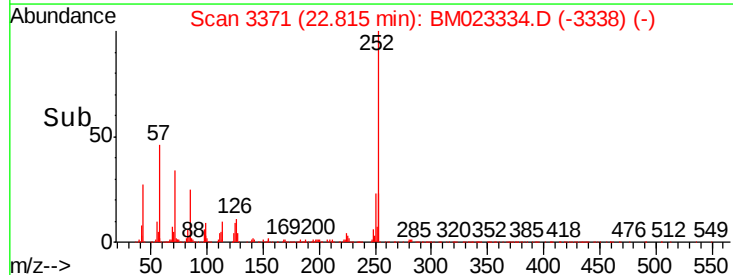
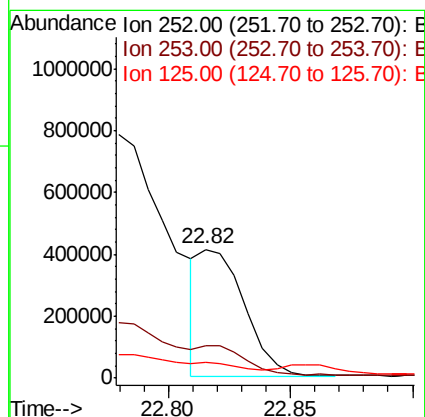
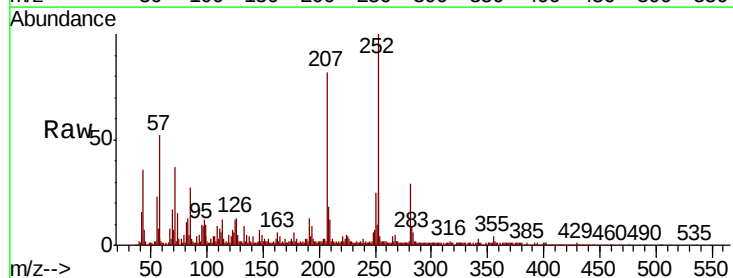
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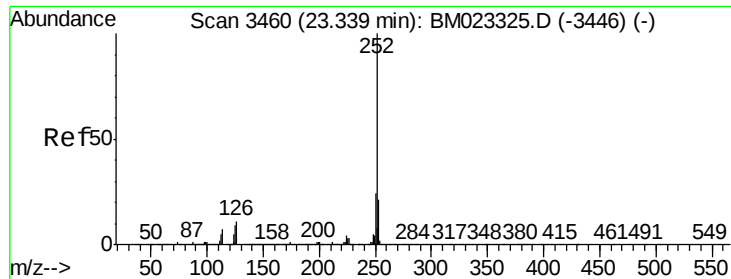
mohammad  
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#89  
Benzo(k)fluoranthene  
Concen: 3.384 ng/ul m  
RT: 22.82 min Scan# 3371  
Delta R.T. -0.01 min  
Lab File: BM023334.D  
Acq: 23 Oct 2019 00:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 17.5  | 26.3  |
| 125     | 11.8  | 6.6   | 9.8   |





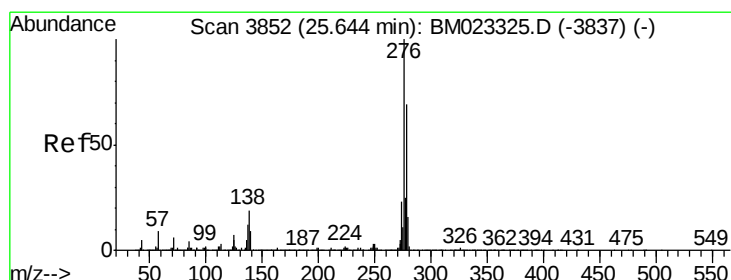
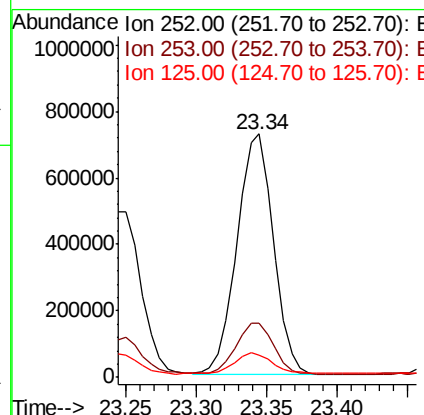
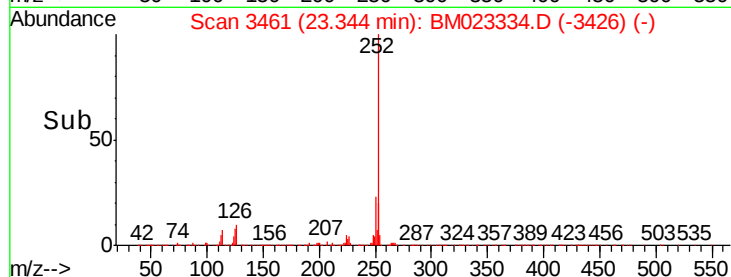
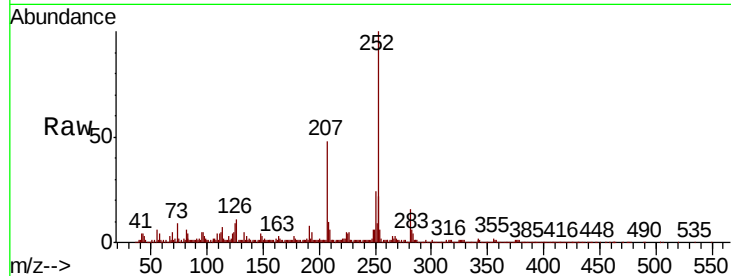
#91  
Benzo(a)pyrene  
Concen: 8.329 ng/ul  
RT: 23.34 min Scan# 3461  
Delta R.T. 0.01 min  
Lab File: BM023334.D  
Acq: 23 Oct 2019 00:19

Instrument :  
BNA\_M  
ClientSampled :  
BFBB2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.0  | 25.6  |
| 125     | 9.3   | 7.1   | 10.7  |

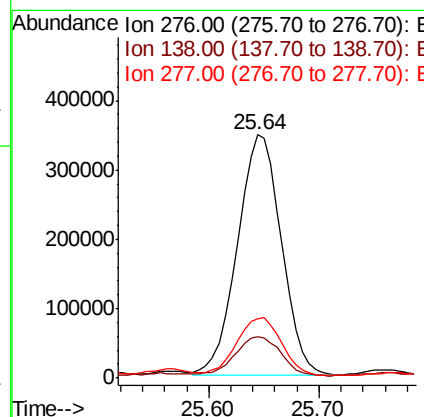
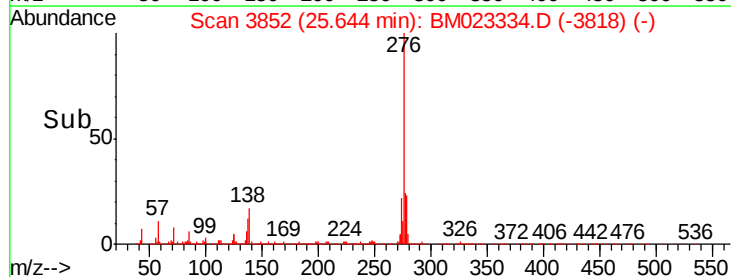
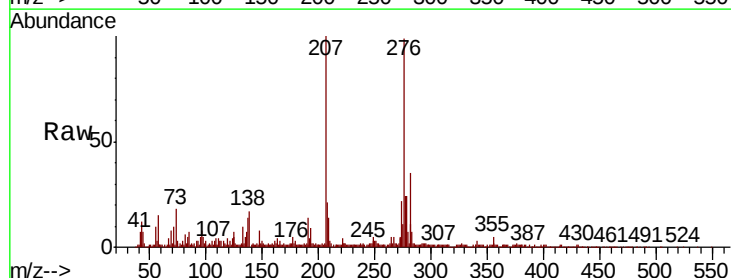
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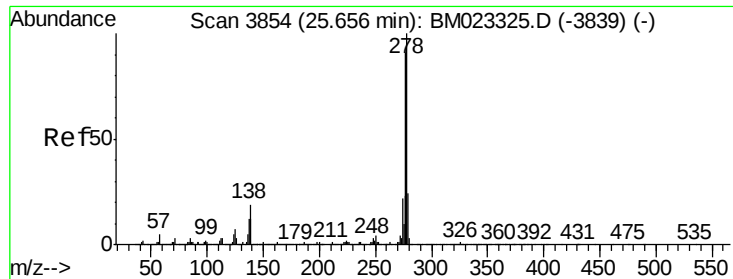
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#92  
Indeno(1,2,3-cd)pyrene  
Concen: 5.131 ng/ul  
RT: 25.64 min Scan# 3852  
Delta R.T. 0.00 min  
Lab File: BM023334.D  
Acq: 23 Oct 2019 00:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.2  | 15.8  | 23.6  |
| 277     | 24.5  | 19.8  | 29.8  |





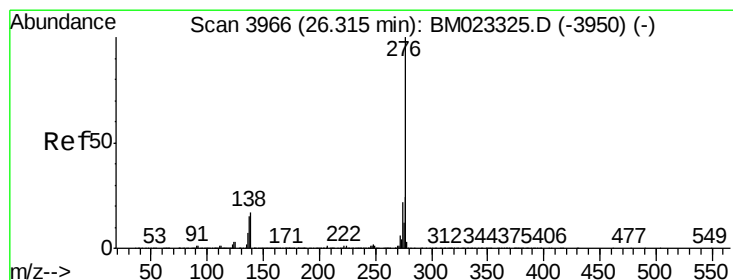
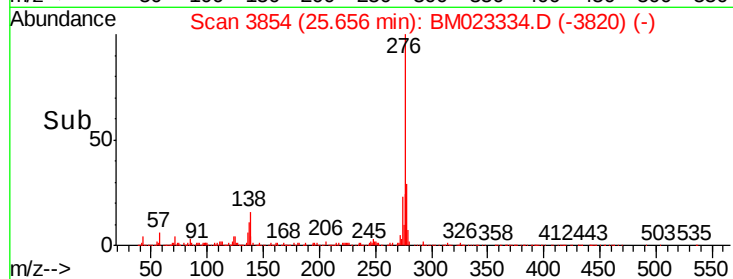
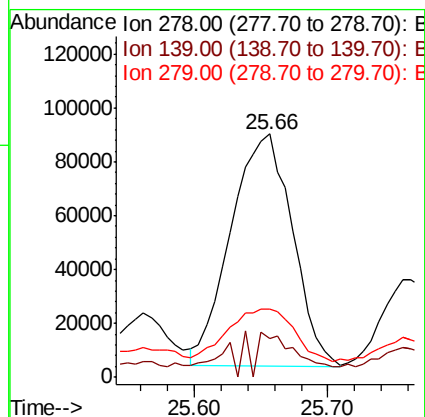
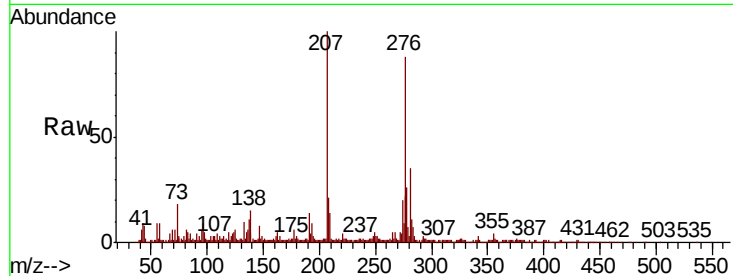
#93  
Dibenzo(a,h)anthracene  
Concen: 1.757 ng/uL  
RT: 25.66 min Scan# 3854  
Delta R.T. 0.00 min  
Lab File: BM023334.D  
Acq: 23 Oct 2019 00:19

Instrument :  
BNA\_M  
ClientSampleId :  
BFBB2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 15.8  | 10.5  | 15.7# |
| 279     | 27.9  | 19.7  | 29.5  |

Manual Integrations  
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#94  
Benzo(g,h,i)perylene  
Concen: 6.125 ng/uL  
RT: 26.32 min Scan# 3967  
Delta R.T. 0.01 min  
Lab File: BM023334.D  
Acq: 23 Oct 2019 00:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.5  | 13.9  | 20.9  |
| 277     | 24.1  | 18.7  | 28.1  |

