

Data Path : Z:\HPCHEM1\BNA M\DATA\BM012718\  
 Data File : BM013891.D  
 Acq On : 27 Jan 2018 19:19  
 Operator : SJ/JU  
 Sample : J1233-14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F6B18

Manual Integrations  
 APPROVED

Sohil  
 1/29/2018 6:04:01 PM

Quant Time: Jan 28 01:58:16 2018  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Jan 28 01:01:50 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.58  | 152  | 156270   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.36 | 136  | 608222   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.23 | 164  | 377763   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.99 | 188  | 803064   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.19 | 240  | 797462   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.38 | 264  | 792224   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.14  | 96  | 11657  | 2.95  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.77  | 99  | 216272 | 18.03 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.93  | 67  | 137002 | 18.85 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.12  | 132 | 187013 | 19.13 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.30  | 113 | 163569 | 17.74 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.74  | 128 | 94742  | 20.07 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 104298 | 20.91 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.99  | 165 | 193332 | 20.07 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.51 | 131 | 203700 | 24.37 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.66 | 166 | 633508 | 20.35 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.93 | 160 | 774466 | 19.51 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.48 | 143 | 69620  | 13.76 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.23 | 176 | 550164 | 20.09 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.38 | 200 | 81523  | 16.87 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.09 | 188 | 816857 | 20.88 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.39 | 212 | 887126 | 23.89 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.24 | 264 | 831898 | 22.85 | ng/ul | 0.00 |

## Target Compounds

|                          |       |     |         |        | Ovalue |     |
|--------------------------|-------|-----|---------|--------|--------|-----|
| 6) Phenol                | 6.79  | 94  | 24640   | 2.048  | ng/ul# | 85  |
| 28) Naphthalene          | 10.40 | 128 | 1029457 | 34.022 | ng/ul  | 99  |
| 34) 2-Methylnaphthalene  | 12.03 | 142 | 1304243 | 57.812 | ng/ul  | 92  |
| 40) 1,1'-Biphenyl        | 13.06 | 154 | 217514  | 6.917  | ng/ul  | 97  |
| 44) Dimethylphthalate    | 13.70 | 163 | 182474  | 5.961  | ng/ul  | 100 |
| 49) Acenaphthene         | 14.30 | 153 | 334891  | 13.311 | ng/ul  | 98  |
| 53) Dibenzofuran         | 14.64 | 168 | 1000241 | 26.428 | ng/ul  | 100 |
| 58) Fluorene             | 15.29 | 166 | 494553  | 15.952 | ng/ul  | 97  |
| 68) Pentachlorophenol    | 16.65 | 266 | 95976   | 17.690 | ng/ul  | 96  |
| 69) Phenanthrene         | 17.04 | 178 | 4285052 | 95.993 | ng/ul  | 99  |
| 71) Anthracene           | 17.12 | 178 | 403052  | 8.754  | ng/ul  | 98  |
| 72) Carbazole            | 17.40 | 167 | 72330   | 1.903  | ng/ul# | 93  |
| 74) Fluoranthene         | 19.06 | 202 | 3002463 | 56.347 | ng/ul# | 94  |
| 77) Pyrene               | 19.42 | 202 | 1837809 | 37.909 | ng/ul# | 95  |
| 80) Benzo(a)anthracene   | 21.17 | 228 | 438944  | 9.109  | ng/ul  | 97  |
| 82) Chrysene             | 21.23 | 228 | 320227  | 7.244  | ng/ul  | 99  |
| 85) Benzo(b)fluoranthene | 22.73 | 252 | 224557m | 4.616  | ng/ul  |     |
| 86) Benzo(k)fluoranthene | 22.77 | 252 | 86257m  | 1.834  | ng/ul  |     |
| 88) Benzo(a)pyrene       | 23.29 | 252 | 122953  | 2.675  | ng/ul# | 94  |

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

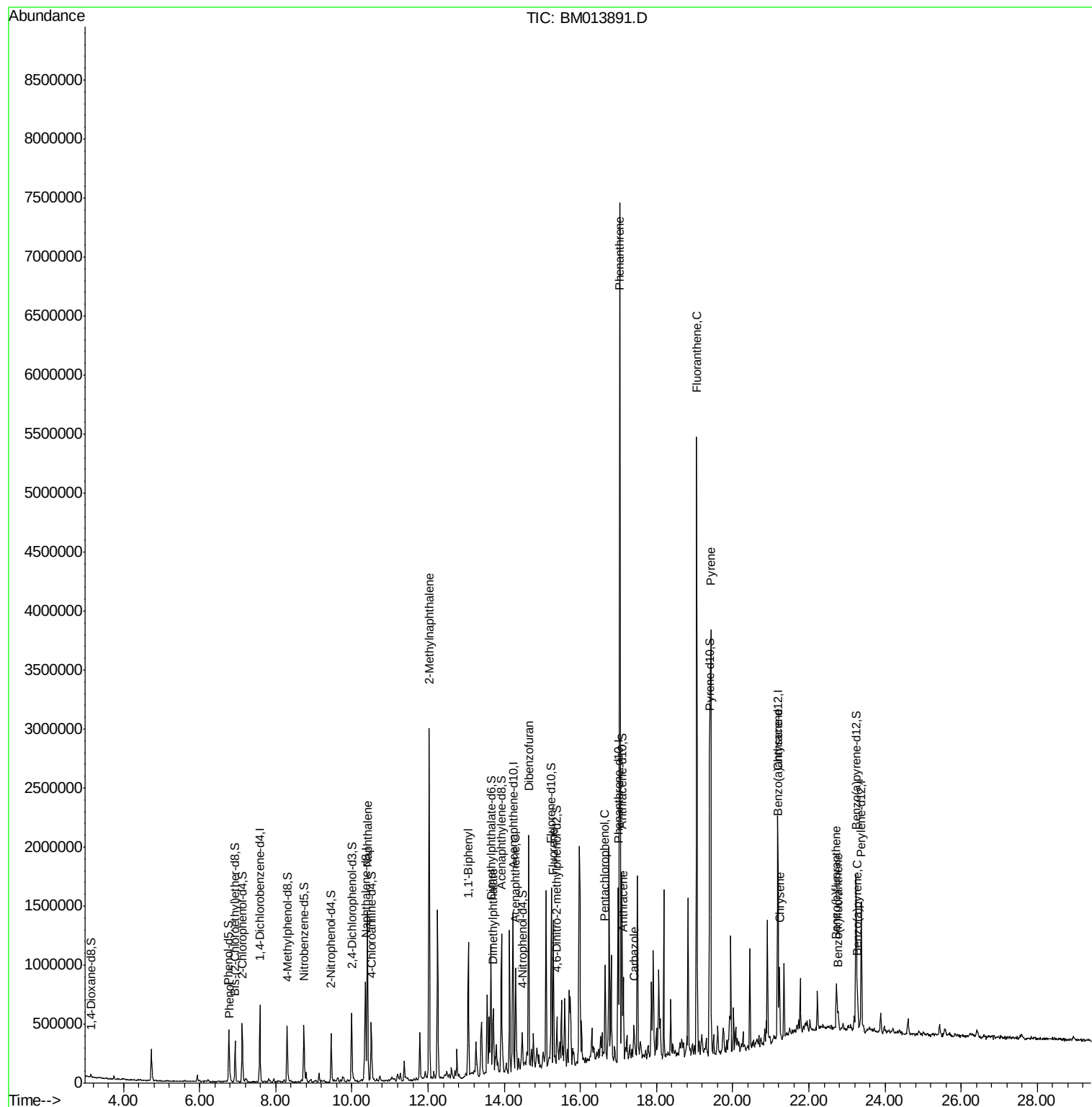
Data Path : Z:\HPCHEM1\BNA M\DATA\BM012718\  
Data File : BM013891.D  
Acq On : 27 Jan 2018 19:19  
Operator : SJ/JU  
Sample : J1233-14  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

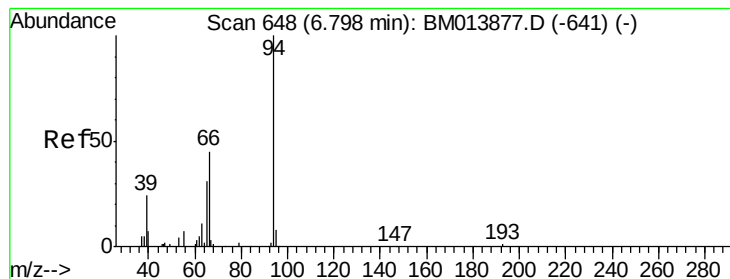
Instrument :  
BNA\_M  
ClientSampleId :  
F6B18

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Quant Time: Jan 28 01:58:16 2018  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sun Jan 28 01:01:50 2018  
Response via : Initial Calibration





#6

Phenol

Concen: 2.048 ng/ul

RT: 6.79 min Scan# 647

Delta R.T. -0.01 min

Lab File: BM013891.D

Acq: 27 Jan 2018 19:19

Instrument :

BNA\_M

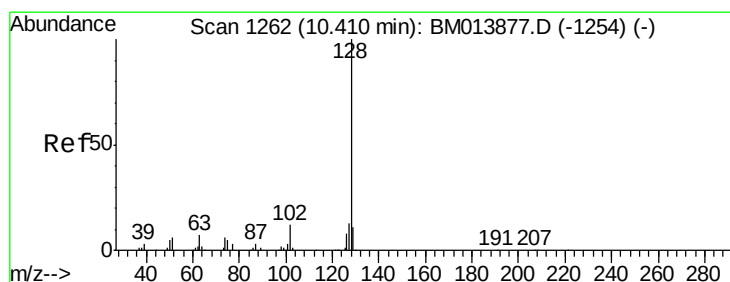
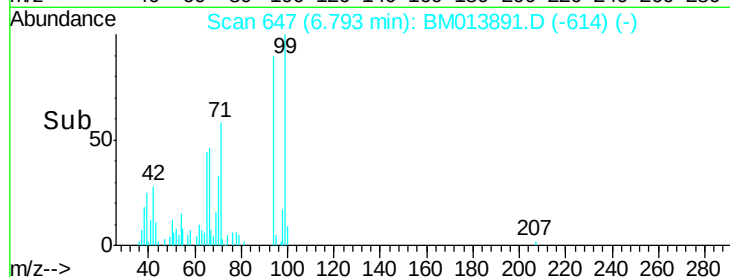
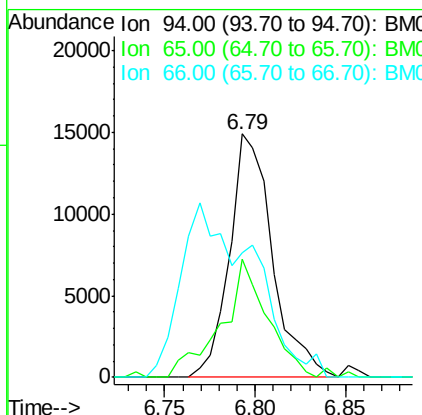
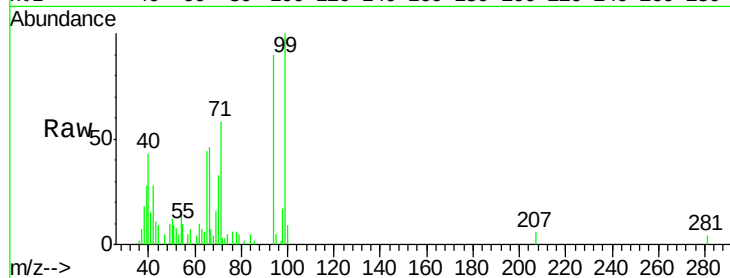
ClientSampleId :

F6B18

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 94    | Resp: | 24640 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 48.6  | 28.2  | 42.4# |
| 66       | 50.9  | 47.2  | 70.8  |

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#28

Naphthalene

Concen: 34.022 ng/ul

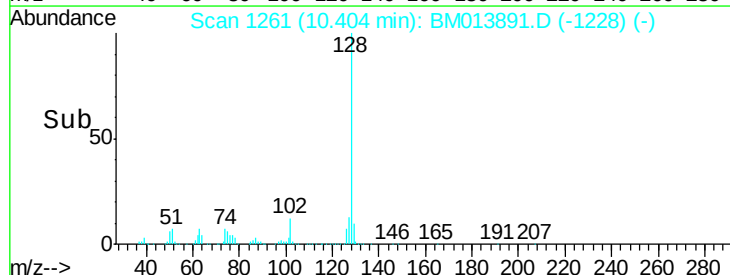
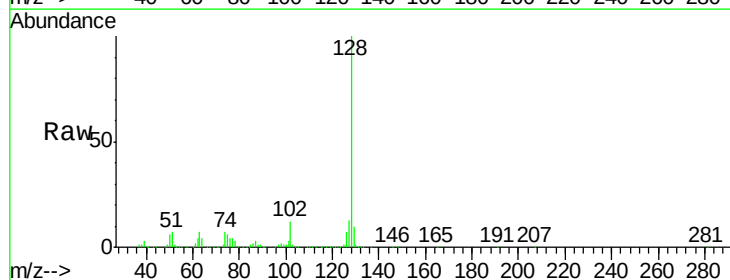
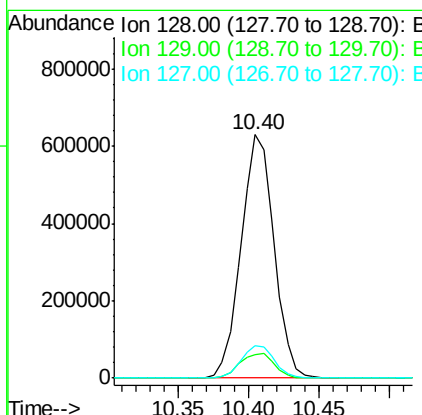
RT: 10.40 min Scan# 1261

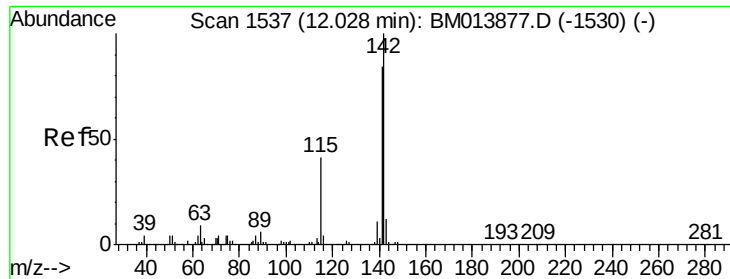
Delta R.T. -0.01 min

Lab File: BM013891.D

Acq: 27 Jan 2018 19:19

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 128   | Resp: | 1029457 |
| Ion      | Ratio | Lower | Upper   |
| 128      | 100   |       |         |
| 129      | 9.9   | 8.8   | 13.2    |
| 127      | 13.3  | 10.6  | 16.0    |





#34

2-Methylnaphthalene

Concen: 57.812 ng/ul

RT: 12.03 min Scan# 1537

Delta R.T. 0.00 min

Lab File: BM013891.D

Acq: 27 Jan 2018 19:19

Instrument :

BNA\_M

ClientSampled :

F6B18

Tot Ion:142 Resp: 1304243

Ion Ratio Lower Upper

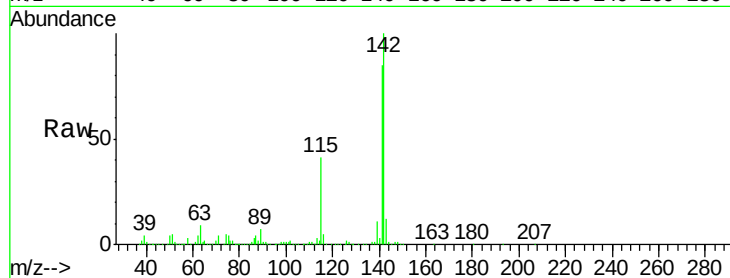
142 100

141 84.7 74.1 111.1

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Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.03

800000

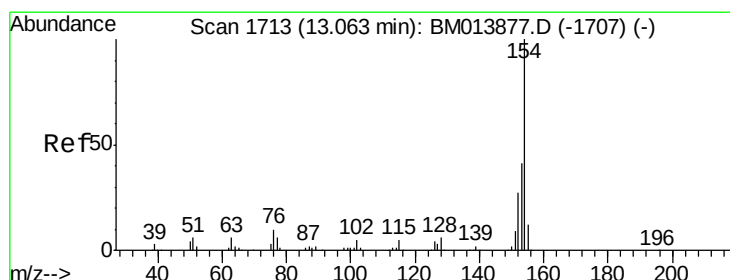
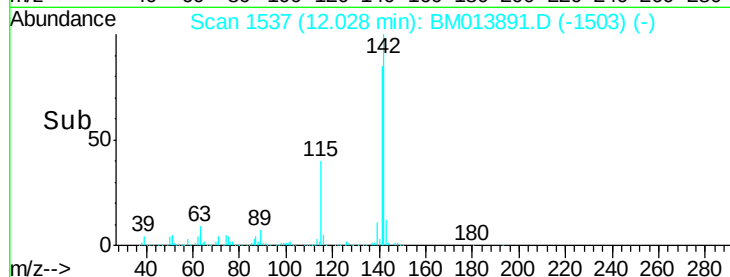
600000

400000

200000

0

Time-->



#40

1,1'-Biphenyl

Concen: 6.917 ng/ul

RT: 13.06 min Scan# 1713

Delta R.T. 0.00 min

Lab File: BM013891.D

Acq: 27 Jan 2018 19:19

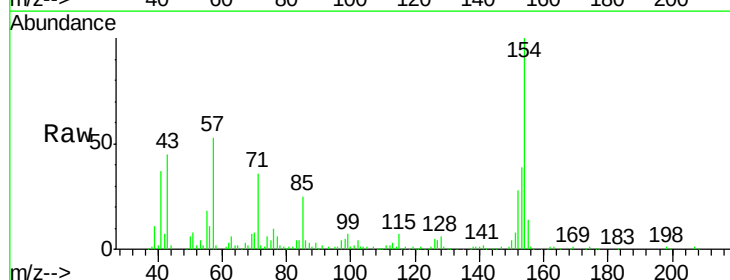
Tgt Ion:154 Resp: 217514

Ion Ratio Lower Upper

154 100

153 38.7 32.6 48.8

76 10.3 8.5 12.7



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM

13.06

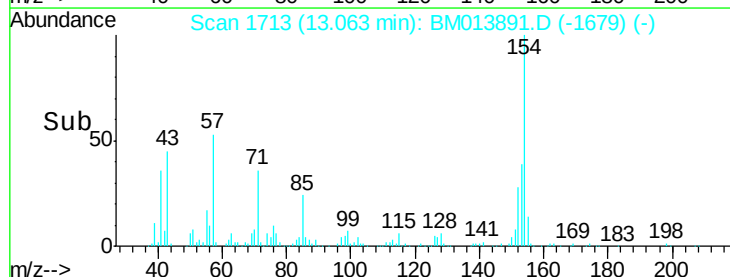
150000

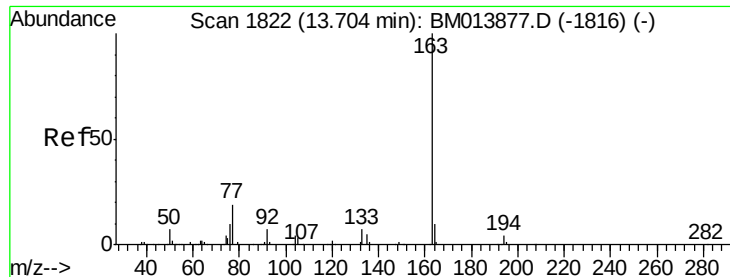
100000

50000

0

Time-->





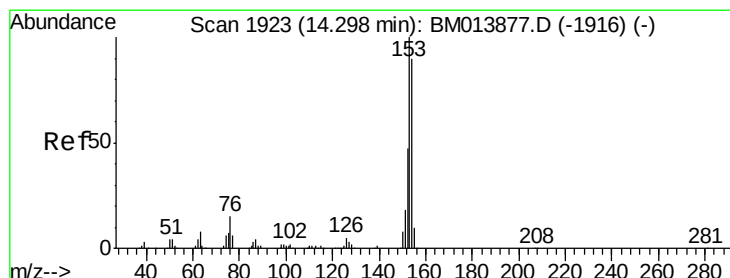
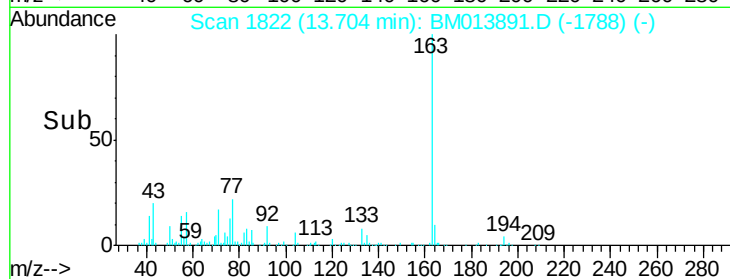
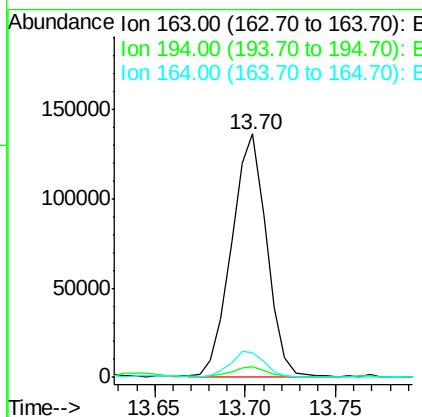
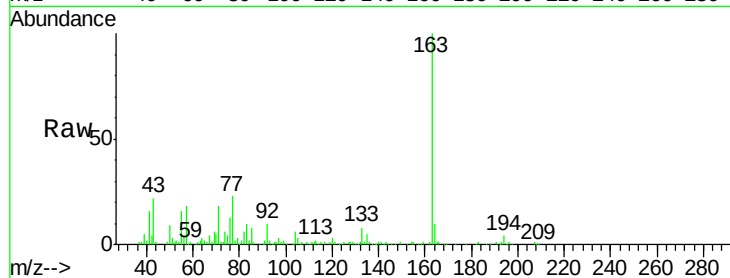
#44  
Dimethylphthalate  
Concen: 5.961 ng/ul  
RT: 13.70 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: BM013891.D  
Acq: 27 Jan 2018 19:19

Instrument :  
BNA\_M  
ClientSampled :  
F6B18

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 182474 |       |       |
| 194     | 4.3   |        | 3.5   | 5.3   |
| 164     | 10.3  |        | 8.2   | 12.4  |

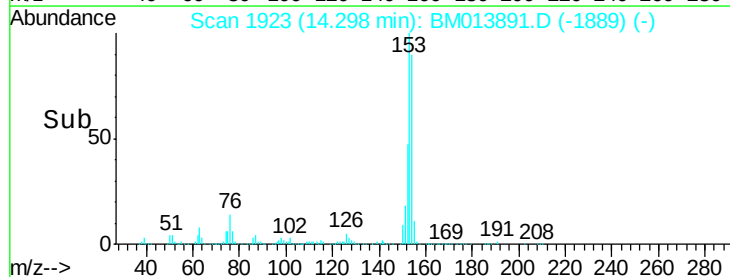
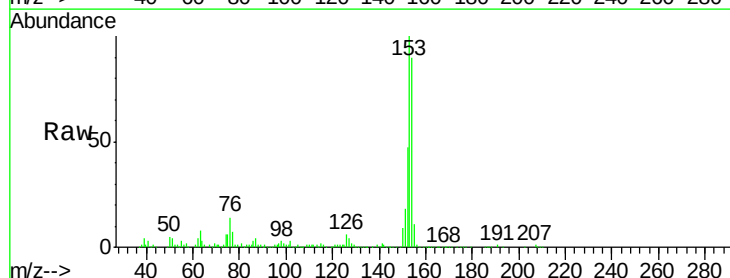
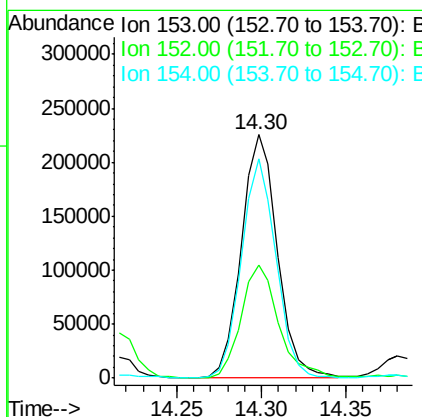
Manual Integrations  
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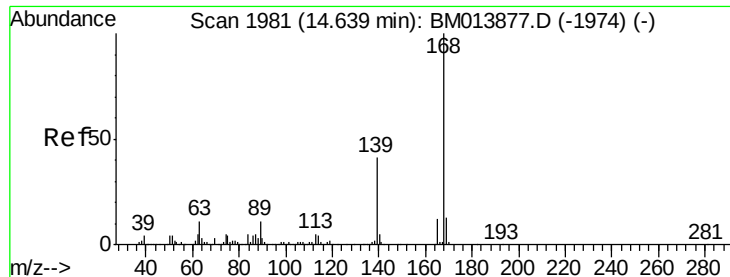
Sohil  
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#49  
Acenaphthene  
Concen: 13.311 ng/ul  
RT: 14.30 min Scan# 1923  
Delta R.T. 0.00 min  
Lab File: BM013891.D  
Acq: 27 Jan 2018 19:19

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 153     | 100   | 334891 |       |       |
| 152     | 46.6  |        | 37.6  | 56.4  |
| 154     | 90.0  |        | 70.4  | 105.6 |





#53

Dibenzenofuran

Concen: 26.428 ng/ul

RT: 14.64 min Scan# 1981

Delta R.T. 0.00 min

Lab File: BM013891.D

Acq: 27 Jan 2018 19:19

Instrument :

BNA\_M

ClientSampleId :

F6B18

Tot Ion:168 Resp: 1000241

Ion Ratio Lower Upper

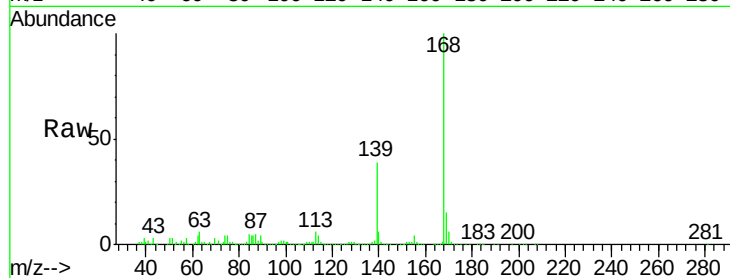
168 100

139 38.7 30.8 46.2

Manual Integrations  
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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

800000

600000

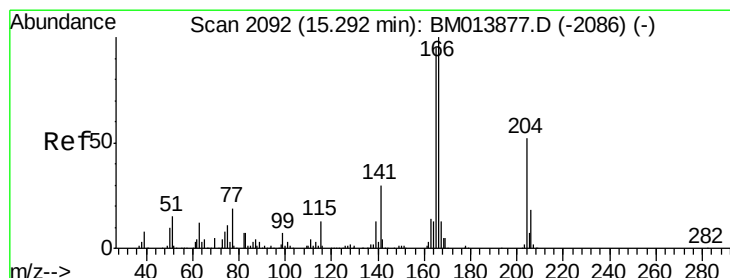
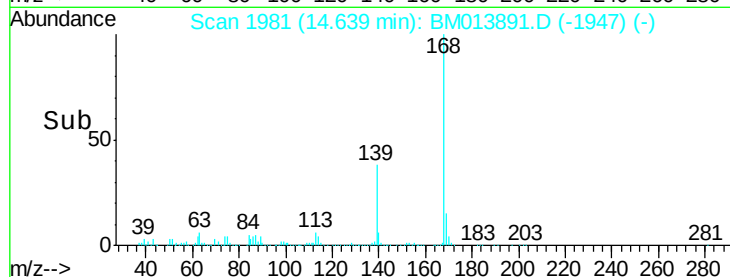
400000

200000

0

14.60 14.65 14.70

Time-->



#58

Fluorene

Concen: 15.952 ng/ul

RT: 15.29 min Scan# 2092

Delta R.T. 0.00 min

Lab File: BM013891.D

Acq: 27 Jan 2018 19:19

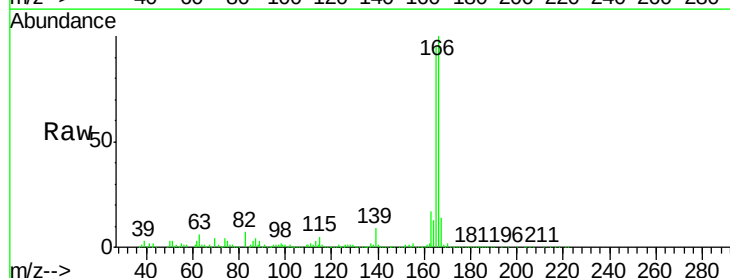
Tgt Ion:166 Resp: 494553

Ion Ratio Lower Upper

166 100

165 94.7 77.9 116.9

167 13.7 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

500000

400000

300000

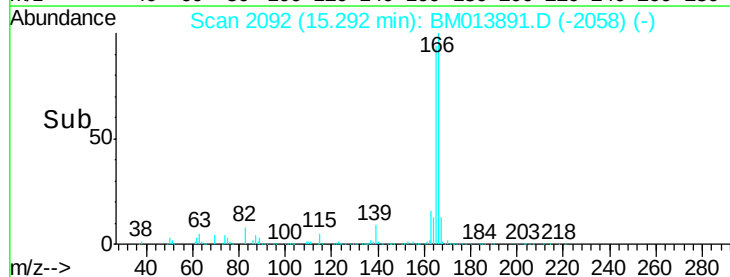
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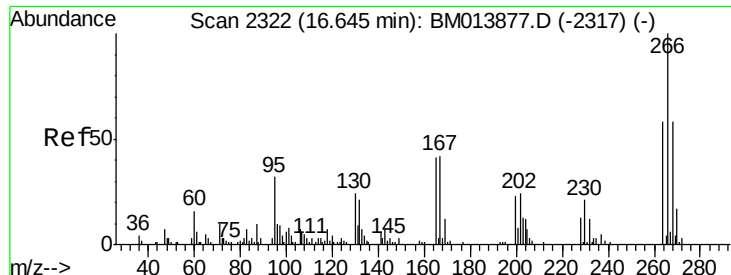
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0

15.25 15.30

Time-->





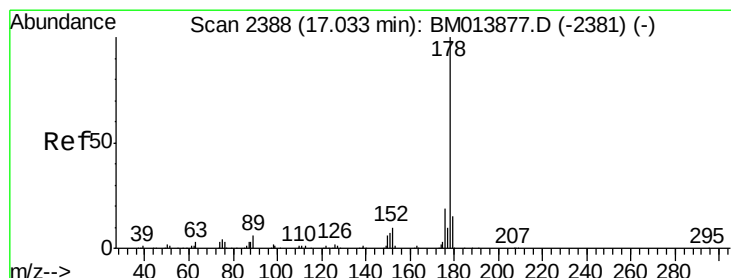
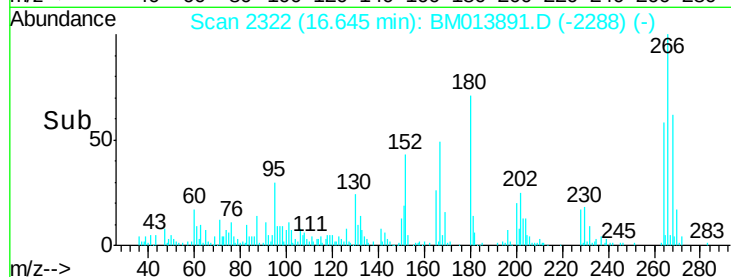
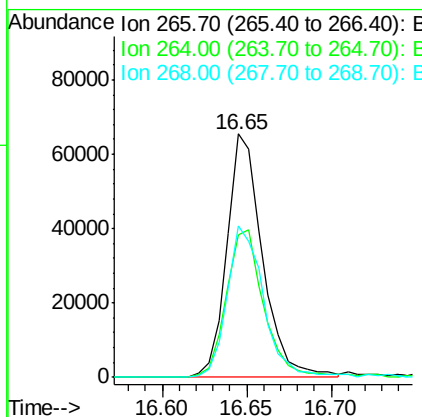
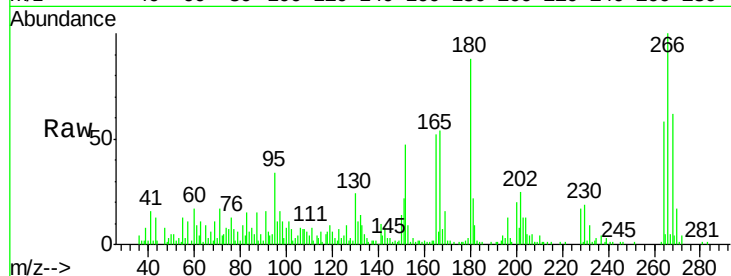
#68  
 Pentachlorophenol  
 Concen: 17.690 ng/ul  
 RT: 16.65 min Scan# 2322  
 Delta R.T. 0.00 min  
 Lab File: BM013891.D  
 Acq: 27 Jan 2018 19:19

Instrument :  
 BNA\_M  
 ClientSampled :  
 F6B18

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 266     | 100   | 95976 |       |       |
| 264     | 58.5  | 49.3  | 73.9  |       |
| 268     | 62.4  | 52.6  | 78.8  |       |

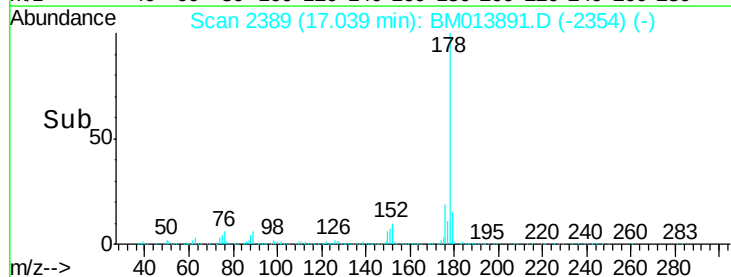
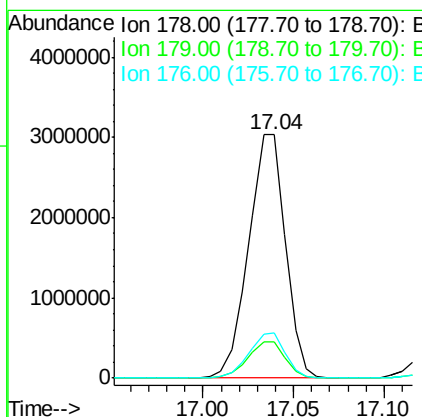
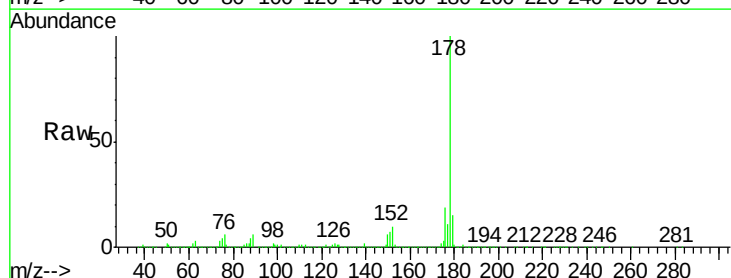
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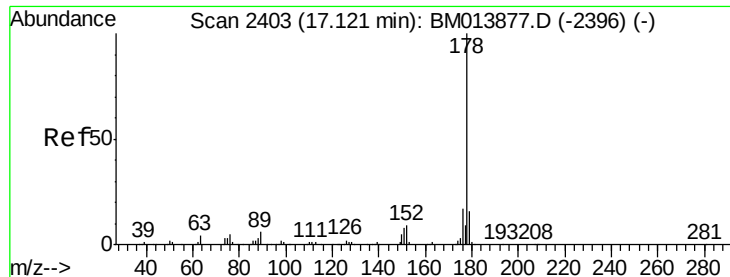
Sohil  
 1/29/2018 6:04:01 PM



#69  
 Phenanthrene  
 Concen: 95.993 ng/ul  
 RT: 17.04 min Scan# 2389  
 Delta R.T. 0.01 min  
 Lab File: BM013891.D  
 Acq: 27 Jan 2018 19:19

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 178     | 100   | 4285052 |       |       |
| 179     | 15.1  | 12.6    | 19.0  |       |
| 176     | 18.8  | 14.9    | 22.3  |       |





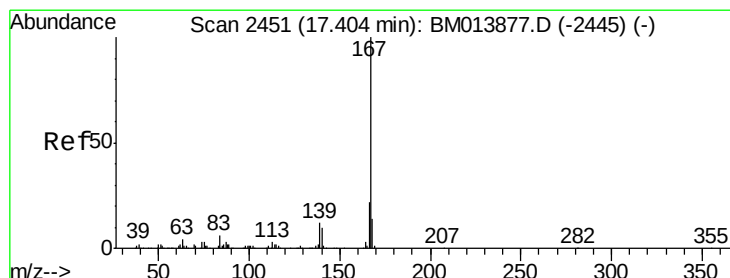
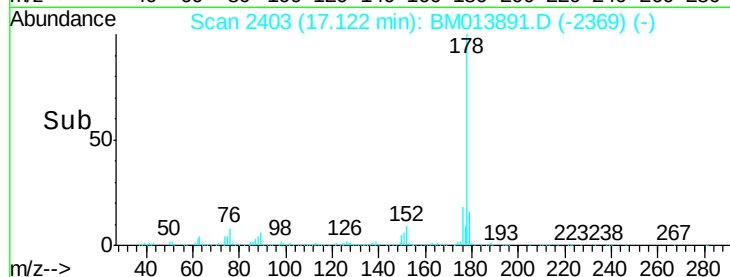
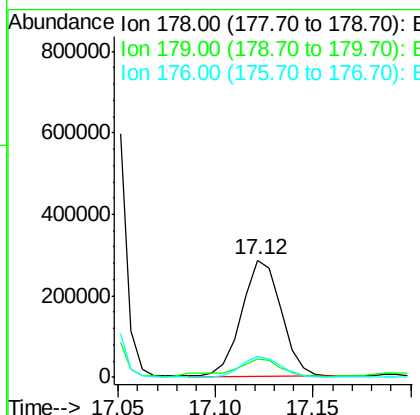
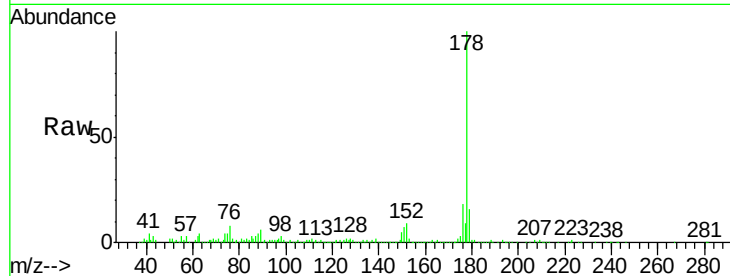
#71  
 Anthracene  
 Concen: 8.754 ng/ul  
 RT: 17.12 min Scan# 2403  
 Delta R.T. 0.00 min  
 Lab File: BM013891.D  
 Acq: 27 Jan 2018 19:19

Instrument :  
 BNA\_M  
 ClientSampled :  
 F6B18

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.9  | 11.7  | 17.5  |
| 176     | 18.3  | 14.6  | 21.8  |

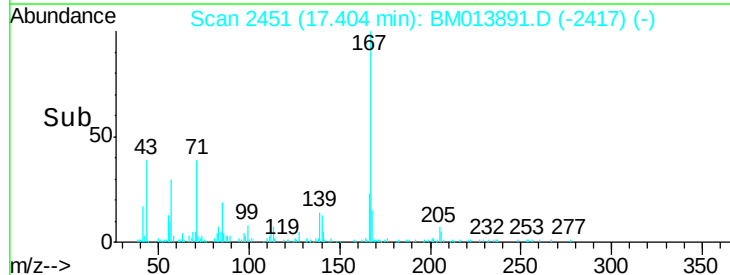
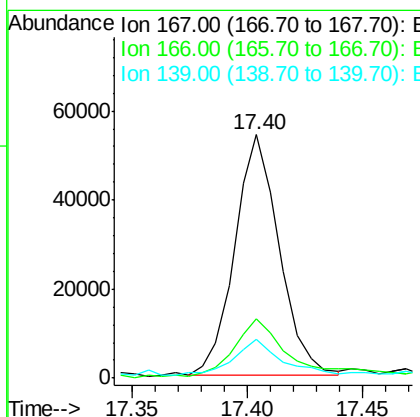
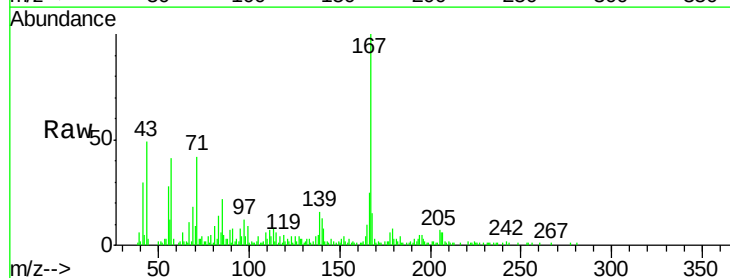
Manual Integrations  
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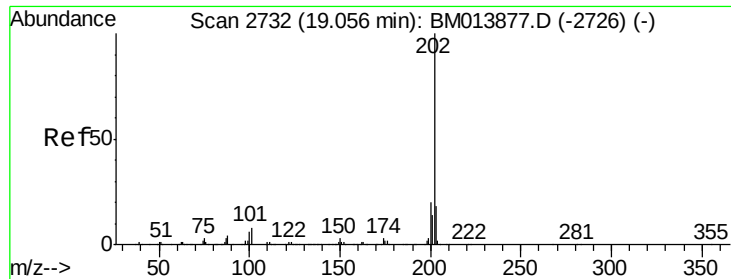


#72  
 Carbazole  
 Concen: 1.903 ng/ul  
 RT: 17.40 min Scan# 2451  
 Delta R.T. 0.00 min  
 Lab File: BM013891.D  
 Acq: 27 Jan 2018 19:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 24.5  | 17.1  | 25.7  |
| 139     | 15.9  | 10.0  | 15.0# |







#74

Fluoranthene

Concen: 56.347 ng/ul

RT: 19.06 min Scan# 2732

Delta R.T. 0.00 min

Lab File: BM013891.D

Acq: 27 Jan 2018 19:19

Instrument :

BNA\_M

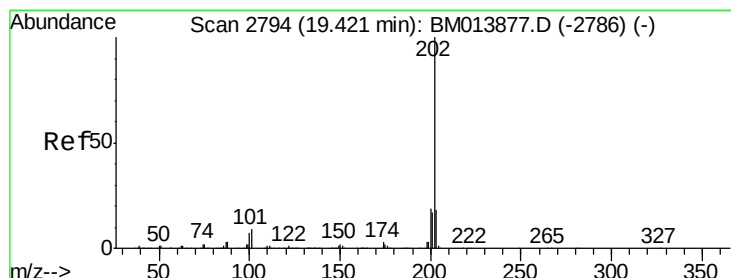
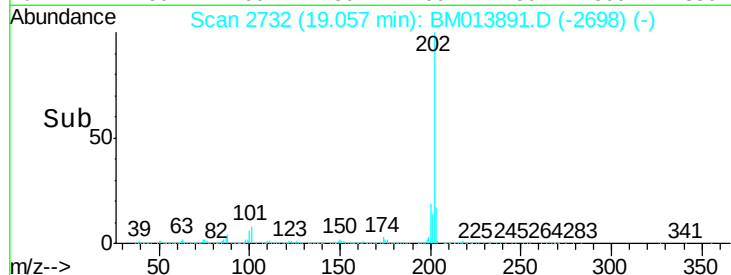
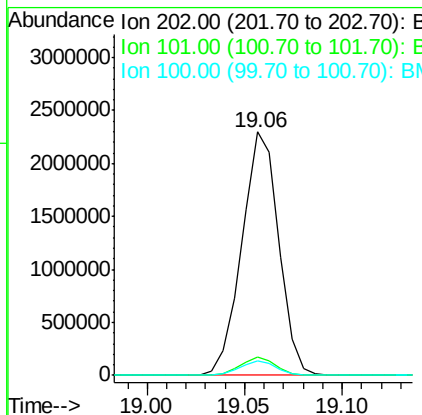
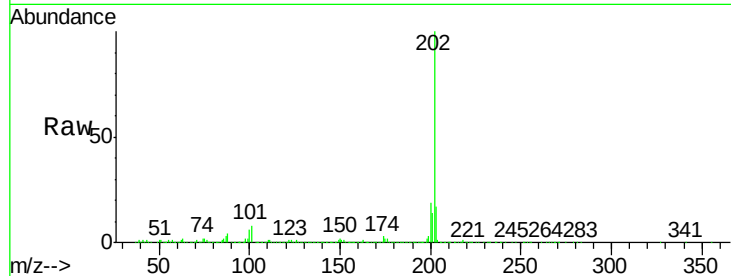
ClientSampleId :

F6B18

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 3002463 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 7.8   | 4.6   | 7.0#    |
| 100       | 6.0   | 3.4   | 5.2#    |

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#77

Pyrene

Concen: 37.909 ng/ul

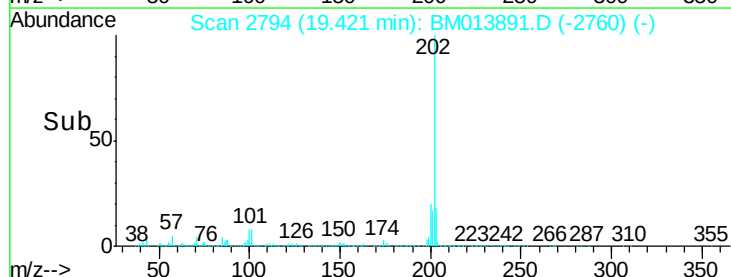
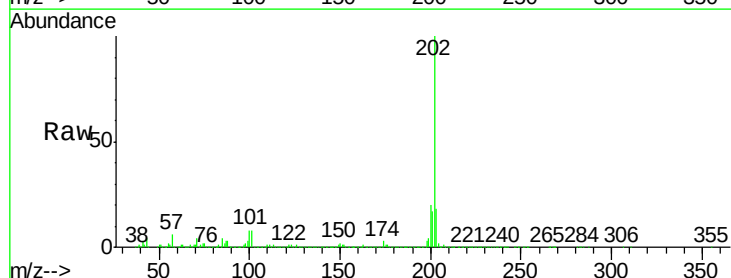
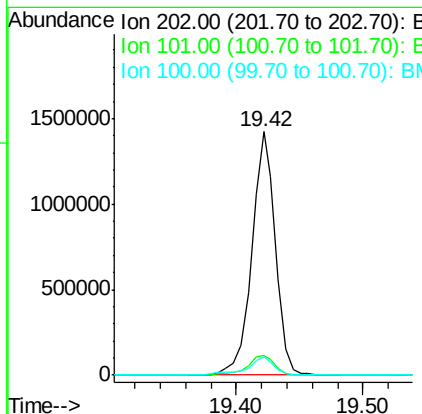
RT: 19.42 min Scan# 2794

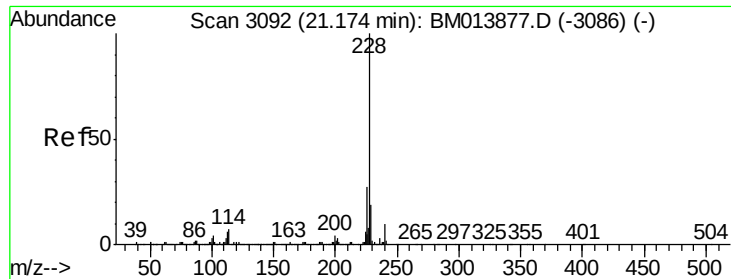
Delta R.T. 0.00 min

Lab File: BM013891.D

Acq: 27 Jan 2018 19:19

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1837809 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 8.2   | 5.1   | 7.7#    |
| 100       | 7.5   | 4.9   | 7.3#    |





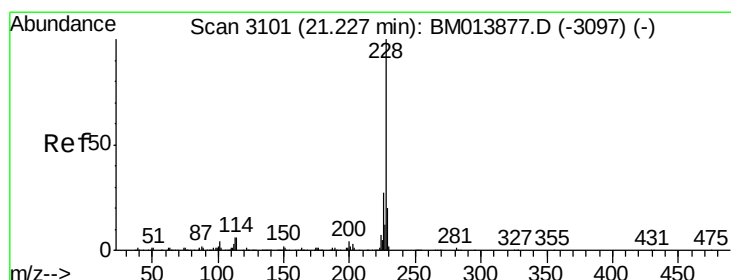
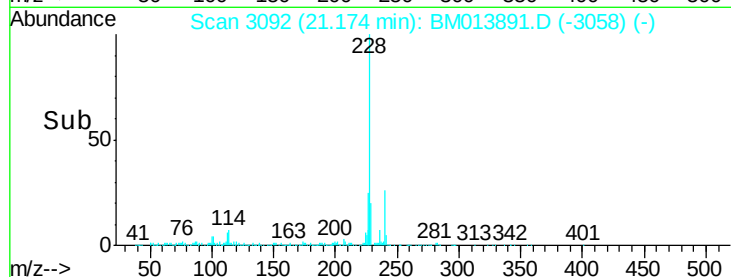
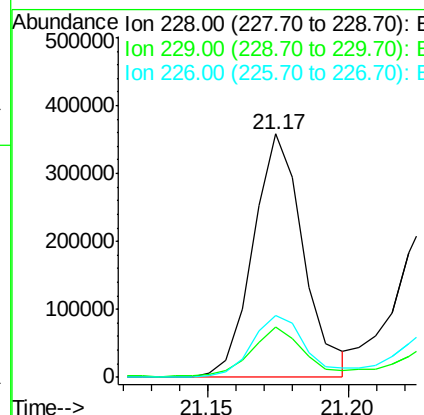
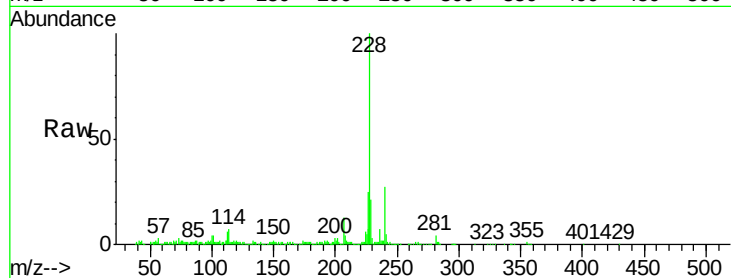
#80  
Benzo(a)anthracene  
Concen: 9.109 ng/ul  
RT: 21.17 min Scan# 3092  
Delta R.T. 0.00 min  
Lab File: BM013891.D  
Acq: 27 Jan 2018 19:19

Instrument :  
BNA\_M  
ClientSampleId :  
F6B18

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.6  | 15.4  | 23.0  |
| 226     | 25.2  | 21.4  | 32.0  |

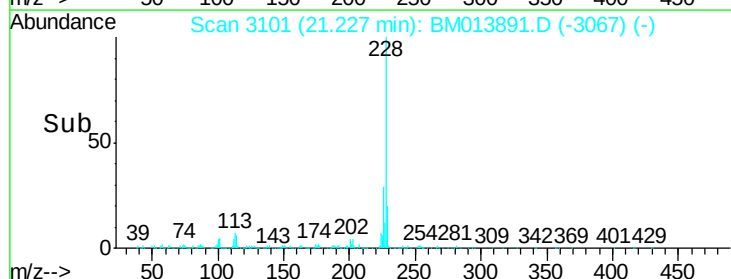
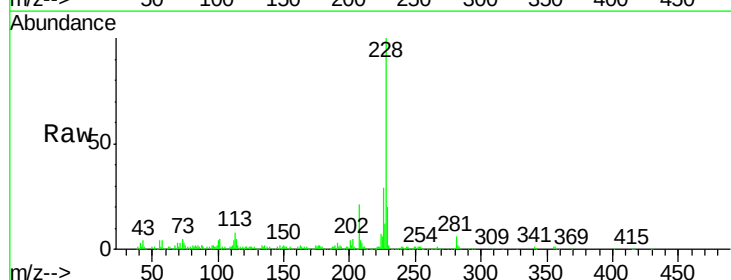
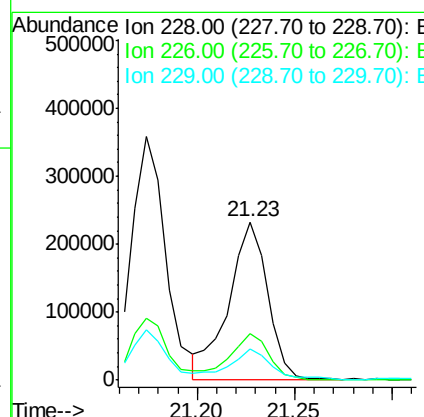
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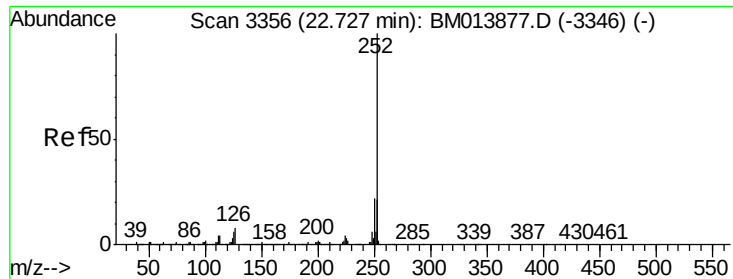
Sohil  
1/29/2018 6:04:01 PM



#82  
Chrysene  
Concen: 7.244 ng/ul  
RT: 21.23 min Scan# 3101  
Delta R.T. 0.00 min  
Lab File: BM013891.D  
Acq: 27 Jan 2018 19:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.4  | 23.4  | 35.2  |
| 229     | 20.0  | 15.5  | 23.3  |





#85

Benzo(b)fluoranthene

Concen: 4.616 ng/ul m

RT: 22.73 min Scan# 3356

Delta R.T. 0.00 min

Lab File: BM013891.D

Acq: 27 Jan 2018 19:19

Instrument :

BNA\_M

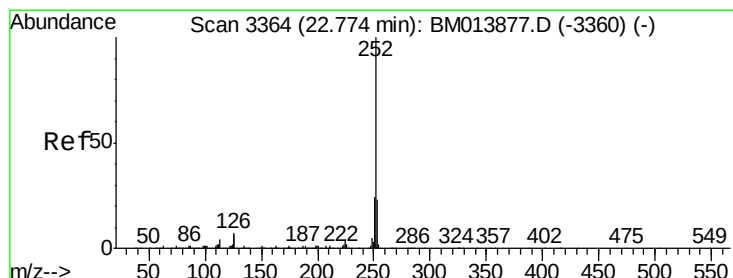
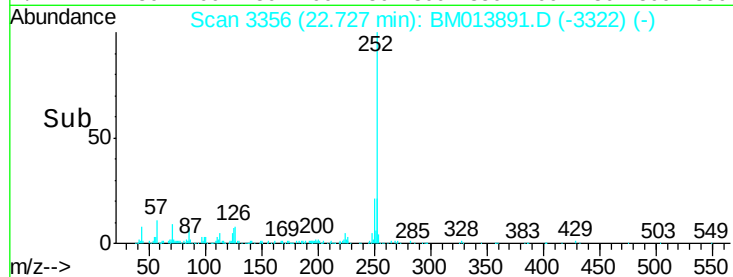
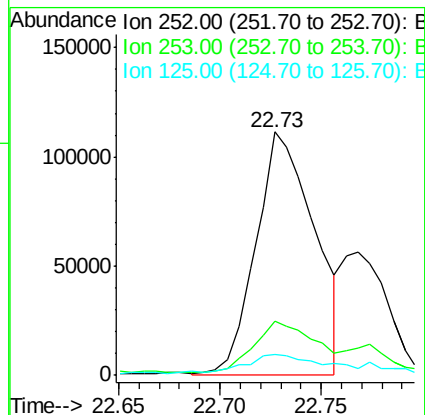
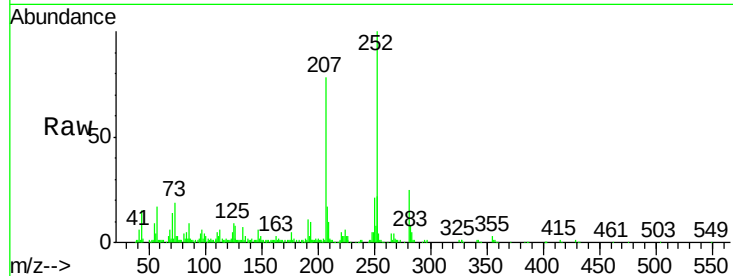
ClientSampleId :

F6B18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 224557 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.0  | 17.9  | 26.9   |
| 125       | 8.6   | 3.6   | 5.4#   |

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#86

Benzo(k)fluoranthene

Concen: 1.834 ng/ul m

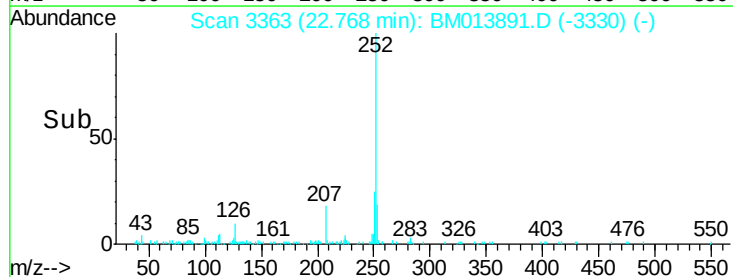
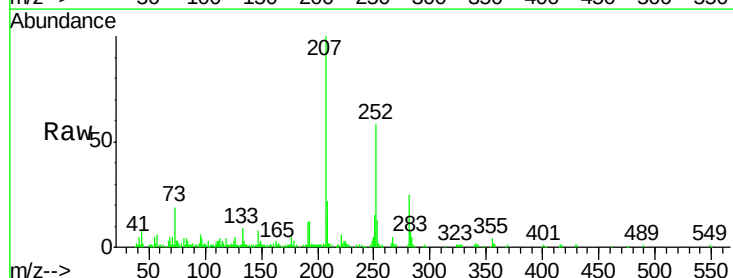
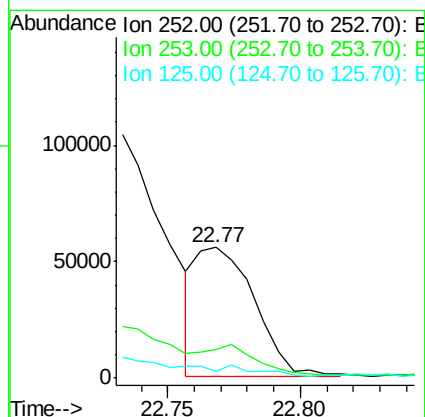
RT: 22.77 min Scan# 3363

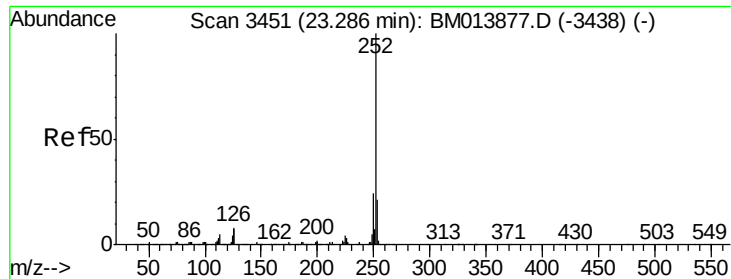
Delta R.T. -0.01 min

Lab File: BM013891.D

Acq: 27 Jan 2018 19:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 86257 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.3  | 17.1  | 25.7  |
| 125       | 5.2   | 3.4   | 5.2#  |





#88

Benzo(a)pyrene

Concen: 2.675 ng/ul

RT: 23.29 min Scan# 3451

Delta R.T. 0.00 min

Lab File: BM013891.D

Acq: 27 Jan 2018 19:19

Instrument :

BNA\_M

ClientSampleId :

F6B18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 122953 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 20.0  | 18.2  | 27.2   |
| 125       | 7.5   | 4.0   | 6.0#   |

Manual Integrations  
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