

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM071719\  
 Data File : BM021529.D  
 Acq On : 18 Jul 2019 18:30  
 Operator : HP/JU  
 Sample : K3822-10  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BF4B1

Manual Integrations  
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 7/19/2019 4:01:25 PM

Quant Time: Jul 19 01:50:25 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM070819MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jul 19 00:39:42 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.72  | 152  | 190134   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.52 | 136  | 726071   | 20.00 | ng/ul | 0.02     |
| 35) Acenaphthene-d10      | 14.36 | 164  | 413367   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.12 | 188  | 880201   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.30 | 240  | 806383   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.56 | 264  | 925817   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.26  | 96  | 6363    | 1.65  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.89  | 99  | 134952  | 9.13  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.06  | 67  | 297224  | 33.91 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.25  | 132 | 372366  | 29.26 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.43  | 113 | 237955  | 20.21 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.89  | 128 | 248178  | 41.50 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.60  | 143 | 249141  | 36.84 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.14 | 165 | 454362  | 33.69 | ng/ul | 0.01 |
| 29) 4-Chloroaniline-d4         | 10.66 | 131 | 77104m  | 6.32  | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.78 | 166 | 1326697 | 36.65 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.06 | 160 | 1558886 | 34.29 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.59 | 143 | 34333   | 5.98  | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.36 | 176 | 1134494 | 35.11 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.50 | 200 | 151825  | 25.66 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.22 | 188 | 1698665 | 37.15 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.51 | 212 | 1784204 | 40.32 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.41 | 264 | 1981709 | 37.22 | ng/ul | 0.00 |

## Target Compounds

|                         |       |     |           |          | Ovalue    |
|-------------------------|-------|-----|-----------|----------|-----------|
| 2) 1,4-Dioxane          | 3.29  | 88  | 18033     | 4.445    | ng/uL 95  |
| 28) Naphthalene         | 10.56 | 128 | 45292387m | 1198.637 | ng/ul     |
| 34) 2-Methylnaphthalene | 12.17 | 142 | 3636295   | 130.553  | ng/ul 99  |
| 40) 1,1'-Biphenyl       | 13.19 | 154 | 4312206   | 124.640  | ng/ul 99  |
| 44) Dimethylphthalate   | 13.83 | 163 | 90240     | 2.677    | ng/ul 99  |
| 47) Acenaphthylene      | 14.08 | 152 | 442553    | 11.191   | ng/ul# 95 |
| 49) Acenaphthene        | 14.44 | 153 | 9216884   | 320.741  | ng/ul 99  |
| 53) Dibenzofuran        | 14.77 | 168 | 9499689   | 228.207  | ng/ul 100 |
| 58) Fluorene            | 15.42 | 166 | 3947532   | 117.214  | ng/ul 100 |
| 69) Phenanthrene        | 17.16 | 178 | 9199581   | 185.360  | ng/ul 98  |
| 71) Anthracene          | 17.24 | 178 | 492089    | 9.742    | ng/ul 97  |
| 74) Carbazole           | 17.53 | 167 | 6830788   | 162.916  | ng/ul 99  |
| 76) Fluoranthene        | 19.17 | 202 | 1008564   | 17.114   | ng/ul 100 |
| 79) Pyrene              | 19.54 | 202 | 557809    | 10.452   | ng/ul 98  |

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

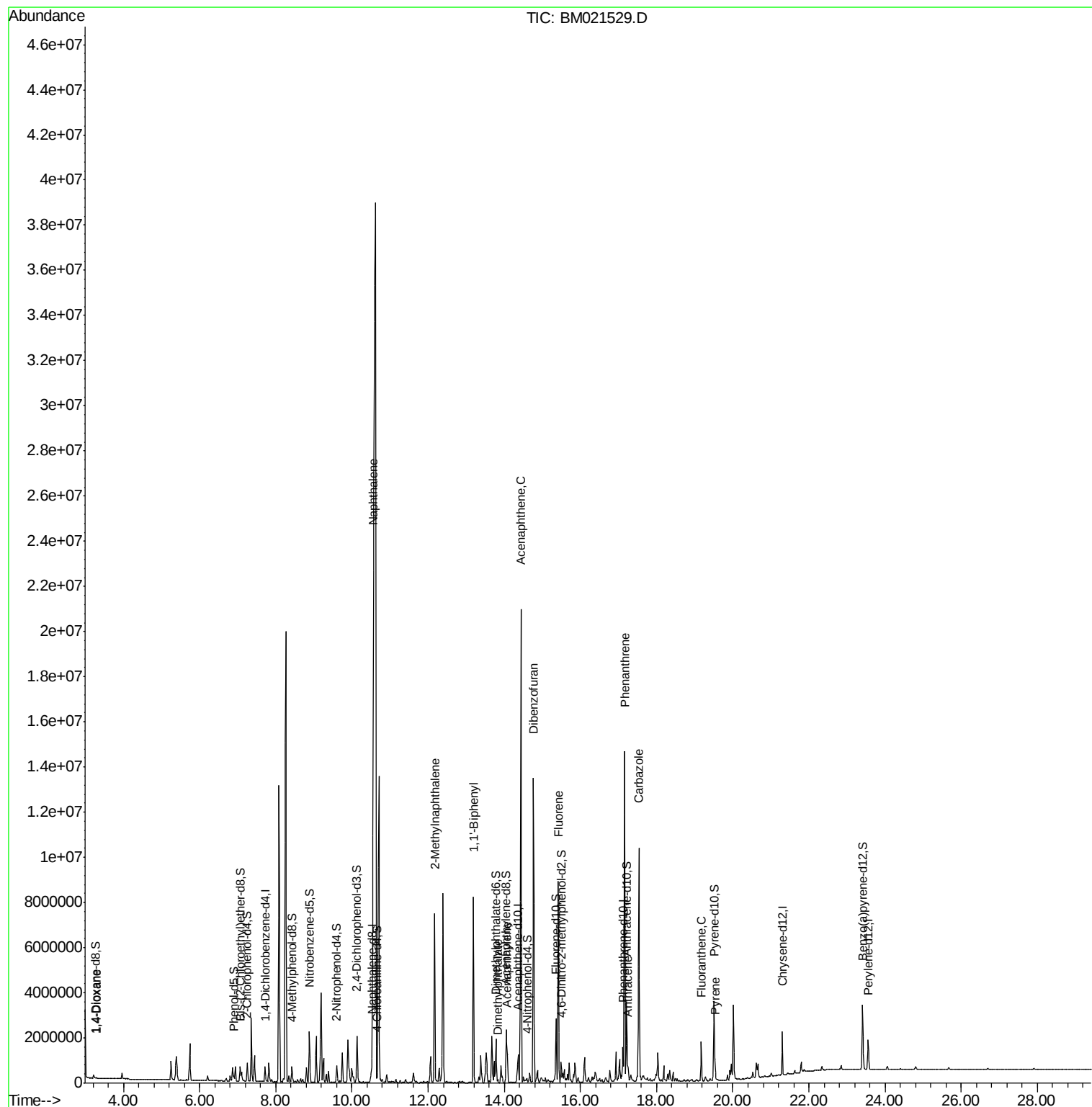
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM071719\  
Data File : BM021529.D  
Acq On : 18 Jul 2019 18:30  
Operator : HP/JU  
Sample : K3822-10  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

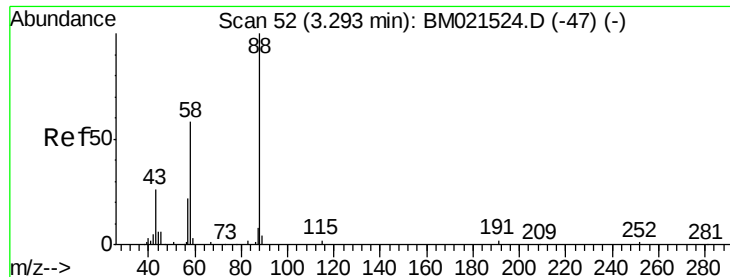
Instrument :  
BNA\_M  
ClientSampleId :  
BF4B1

Quant Time: Jul 19 01:50:25 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM070819MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Jul 19 00:39:42 2019  
Response via : Initial Calibration

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#2

1,4-Dioxane

Concen: 4.445 ng/uL

RT: 3.29 min Scan# 52

Delta R.T. -0.00 min

Lab File: BM021529.D

Acq: 18 Jul 2019 18:30

Instrument :

BNA\_M

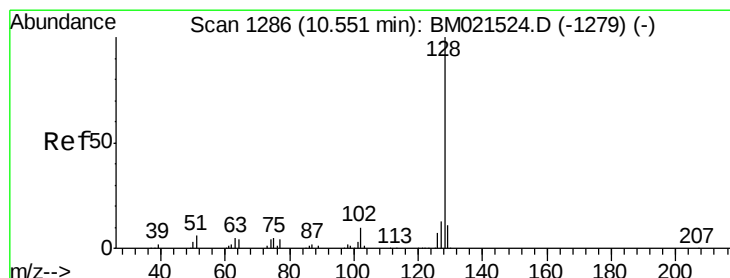
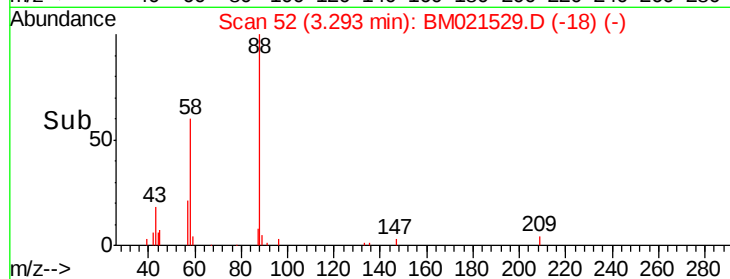
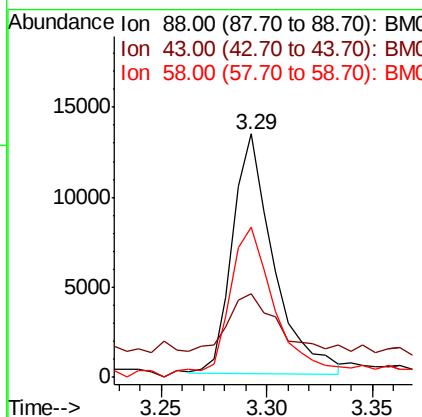
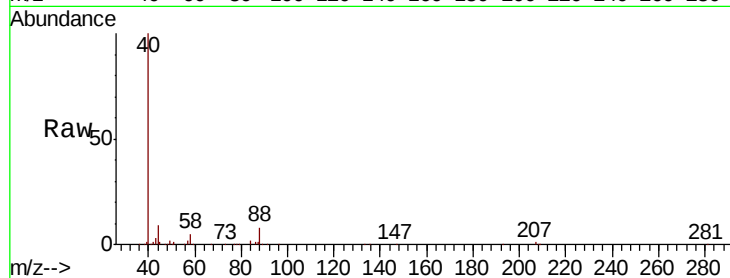
ClientSampled :

BF4B1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 88    | Resp: | 18033 |
| Ion Ratio | Lower | Upper |       |
| 88        | 100   |       |       |
| 43        | 34.6  | 23.4  | 35.2  |
| 58        | 61.5  | 50.6  | 75.8  |

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#28

Naphthalene

Concen: 1198.637 ng/uL

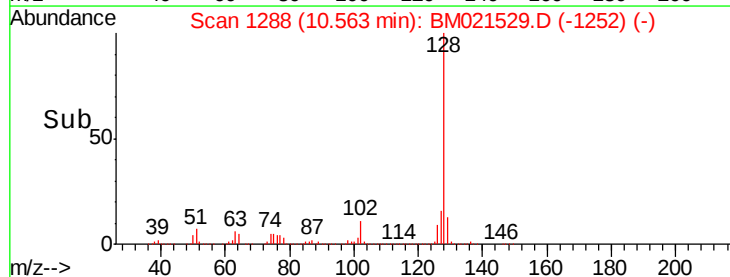
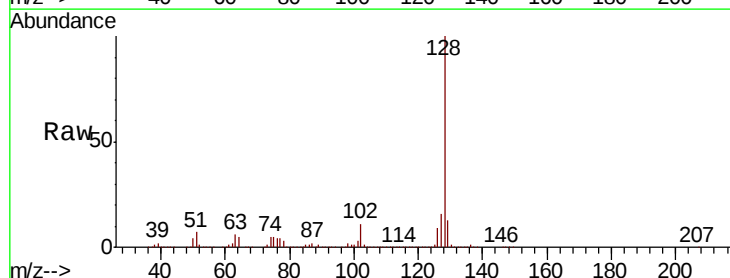
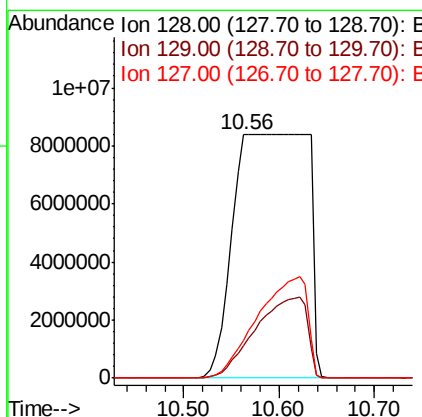
RT: 10.56 min Scan# 1288

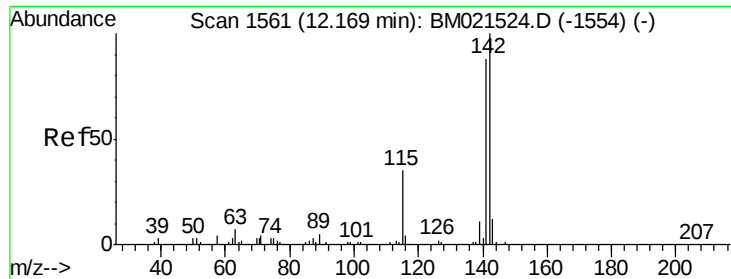
Delta R.T. 0.01 min

Lab File: BM021529.D

Acq: 18 Jul 2019 18:30

|           |       |       |          |
|-----------|-------|-------|----------|
| Tgt Ion:  | 128   | Resp: | 45292387 |
| Ion Ratio | Lower | Upper |          |
| 128       | 100   |       |          |
| 129       | 13.4  | 8.7   | 13.1#    |
| 127       | 15.6  | 10.6  | 16.0     |





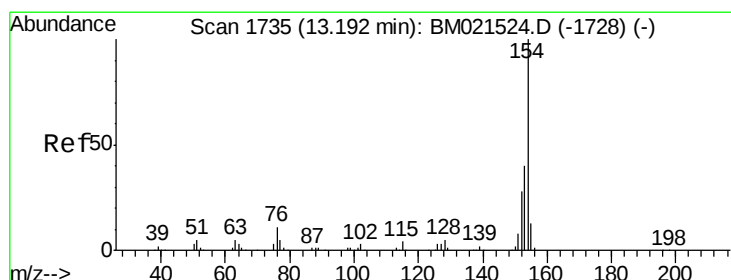
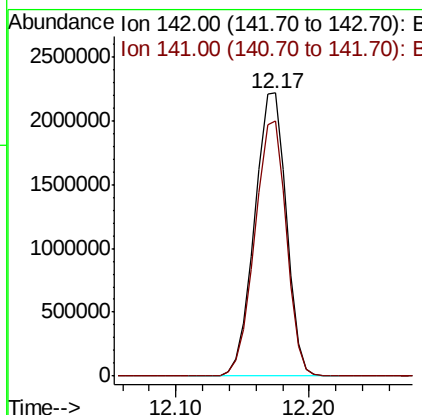
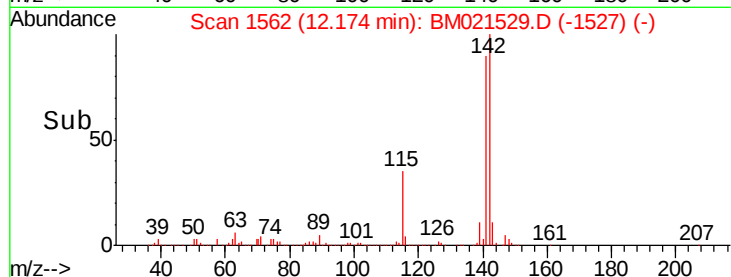
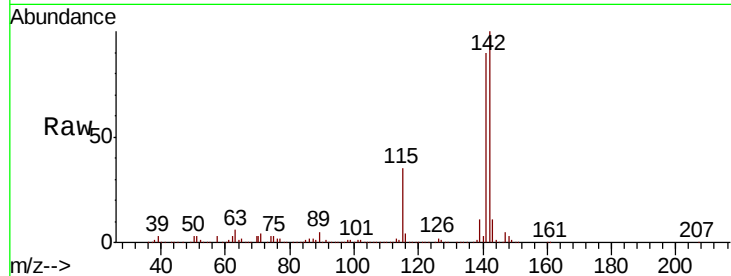
#34  
2-Methylnaphthalene  
Concen: 130.553 ng/ul  
RT: 12.17 min Scan# 1562  
Delta R.T. 0.01 min  
Lab File: BM021529.D  
Acq: 18 Jul 2019 18:30

Instrument :  
BNA\_M  
ClientSampled :  
BF4B1

Tot Ion:142 Resp: 3636295  
Ion Ratio Lower Upper  
142 100  
141 90.2 71.1 106.7

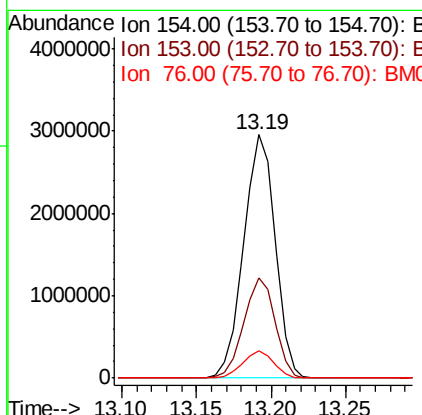
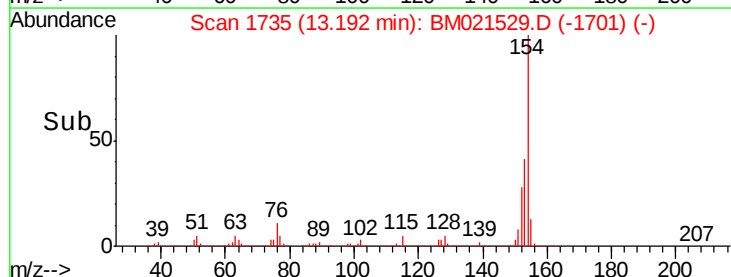
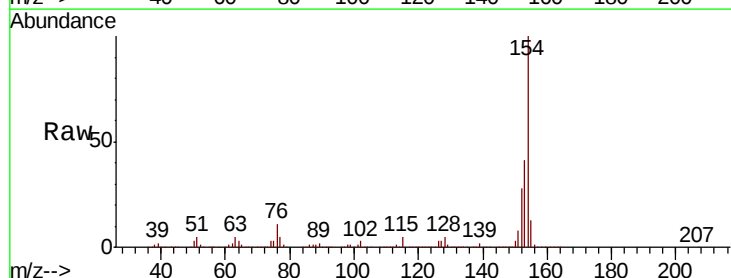
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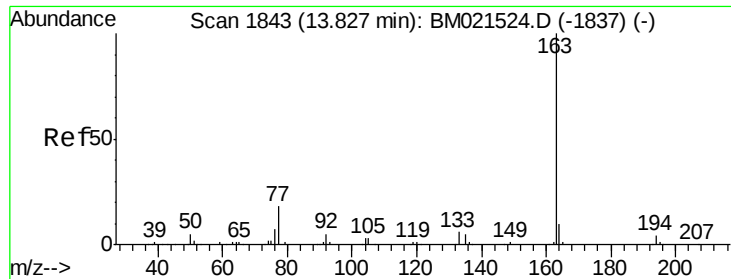
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#40  
1,1'-Biphenyl  
Concen: 124.640 ng/ul  
RT: 13.19 min Scan# 1735  
Delta R.T. -0.00 min  
Lab File: BM021529.D  
Acq: 18 Jul 2019 18:30

Tgt Ion:154 Resp: 4312206  
Ion Ratio Lower Upper  
154 100  
153 41.3 32.7 49.1  
76 11.0 8.5 12.7





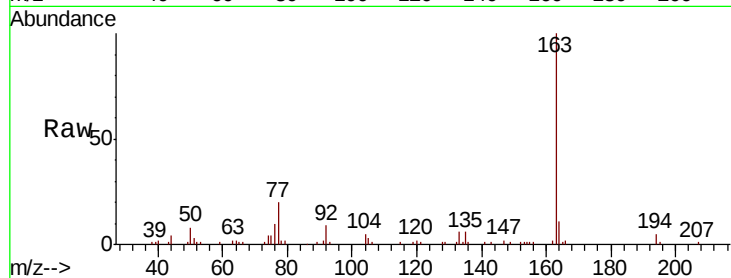
#44  
Dimethylphthalate  
Concen: 2.677 ng/ul  
RT: 13.83 min Scan# 1843  
Delta R.T. -0.00 min  
Lab File: BM021529.D  
Acq: 18 Jul 2019 18:30

Instrument :  
BNA\_M  
ClientSampleId :  
BF4B1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.0   | 3.6   | 5.4   |
| 164     | 10.5  | 8.3   | 12.5  |

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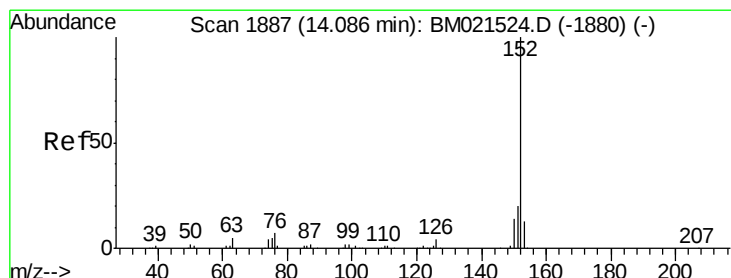
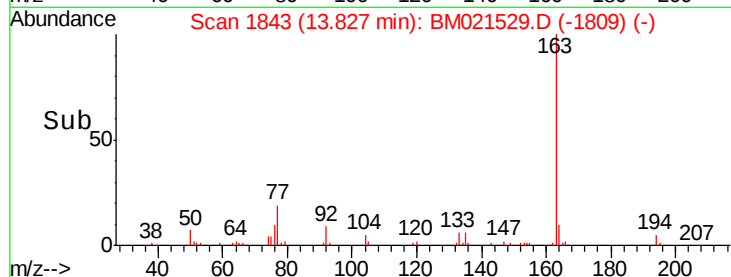
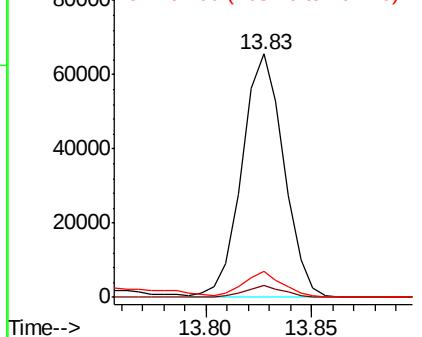


Abundance

Ion 163.00 (162.70 to 163.70): E

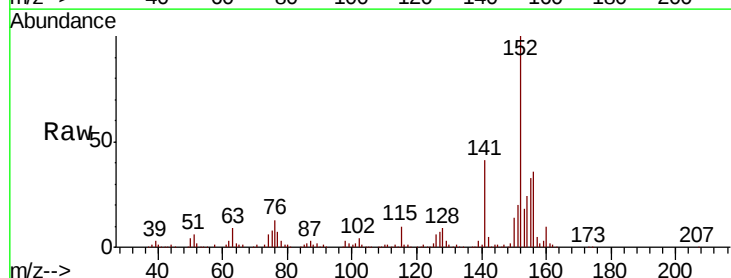
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#47  
Acenaphthylene  
Concen: 11.191 ng/ul  
RT: 14.08 min Scan# 1886  
Delta R.T. -0.01 min  
Lab File: BM021529.D  
Acq: 18 Jul 2019 18:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.6  | 15.8  | 23.8  |
| 153     | 18.2  | 10.6  | 15.8# |

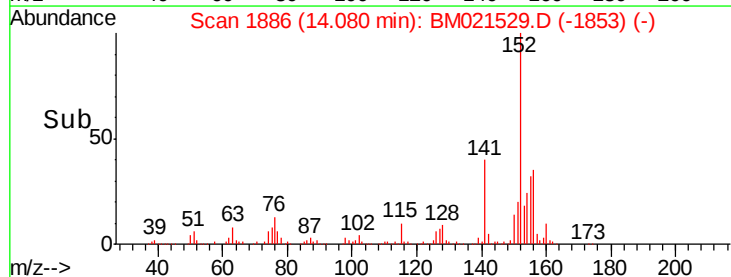
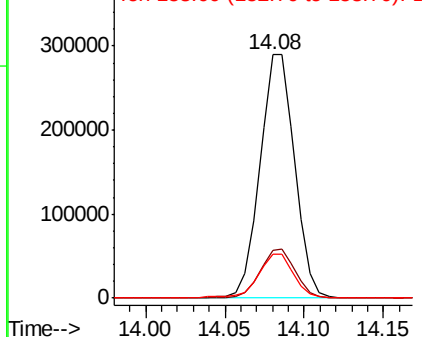


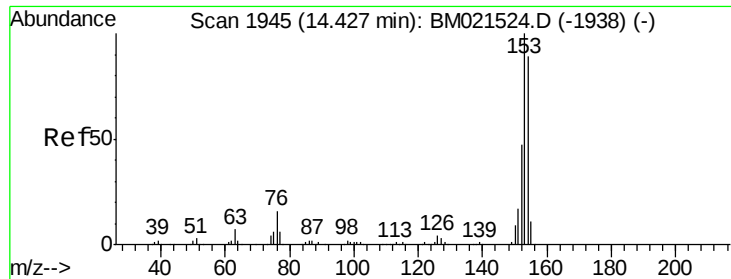
Abundance

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





#49

Acenaphthene

Concen: 320.741 ng/ul

RT: 14.44 min Scan# 1947

Delta R.T. 0.01 min

Lab File: BM021529.D

Acq: 18 Jul 2019 18:30

Instrument :

BNA\_M

ClientSampleId :

BF4B1

Tot Ion:153 Resp: 9216884

Ion Ratio Lower Upper

153 100

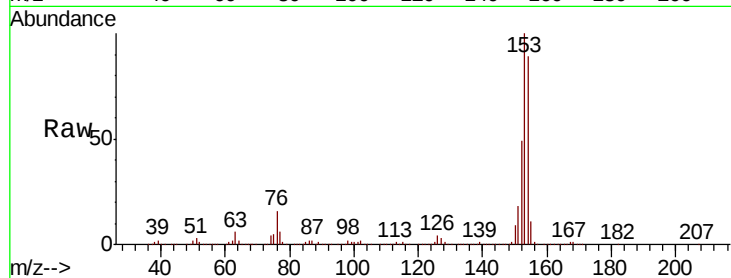
152 48.6 38.2 57.4

154 89.0 70.0 105.0

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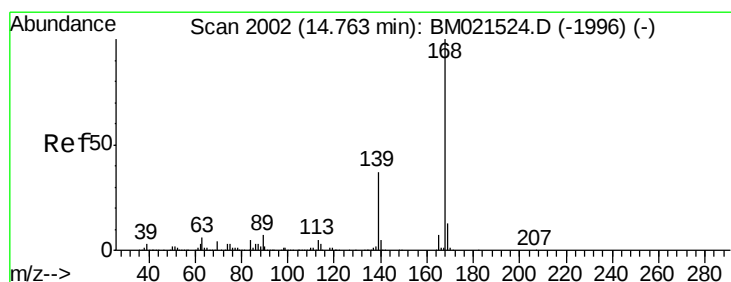
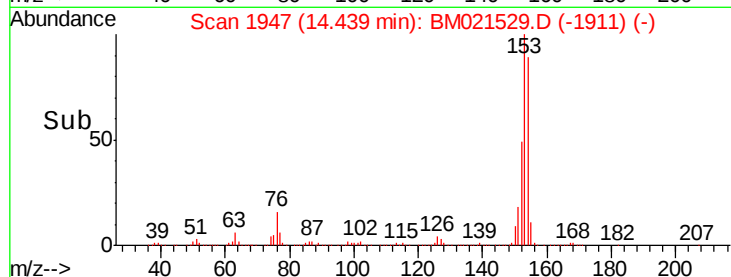
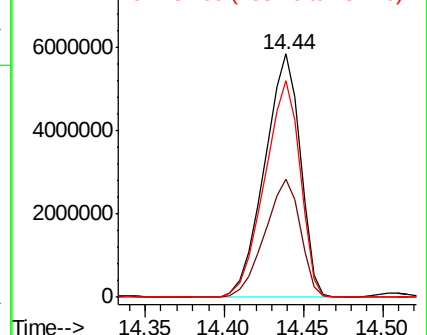
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Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 228.207 ng/ul

RT: 14.77 min Scan# 2004

Delta R.T. 0.01 min

Lab File: BM021529.D

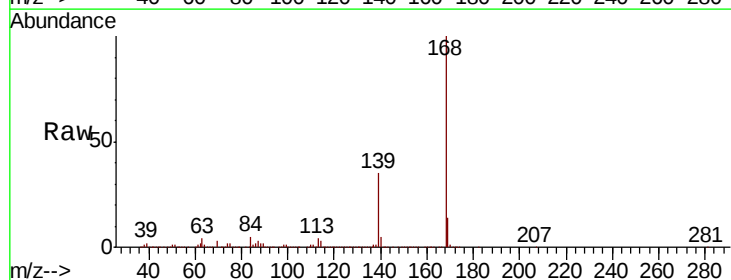
Acq: 18 Jul 2019 18:30

Tgt Ion:168 Resp: 9499689

Ion Ratio Lower Upper

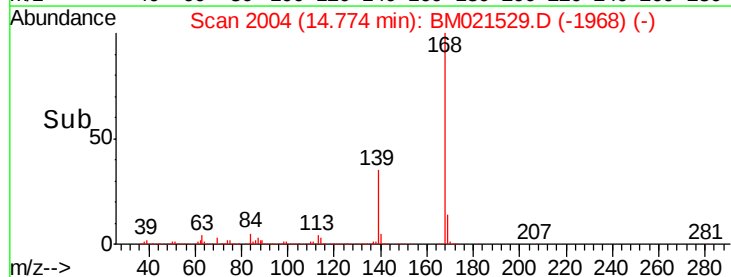
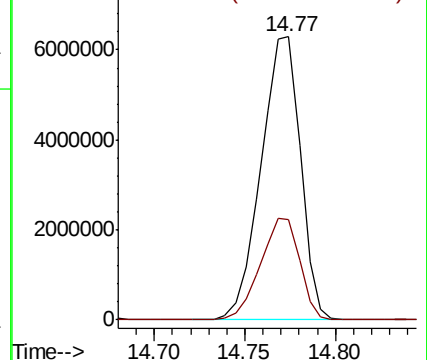
168 100

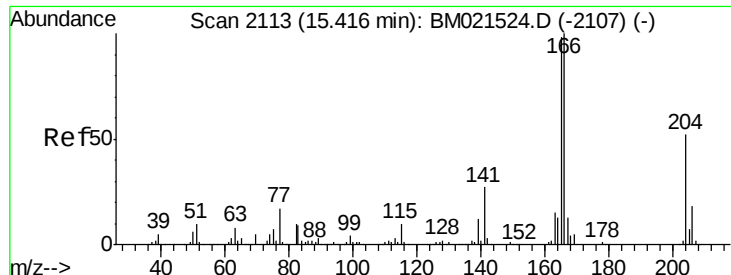
139 35.4 28.4 42.6



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





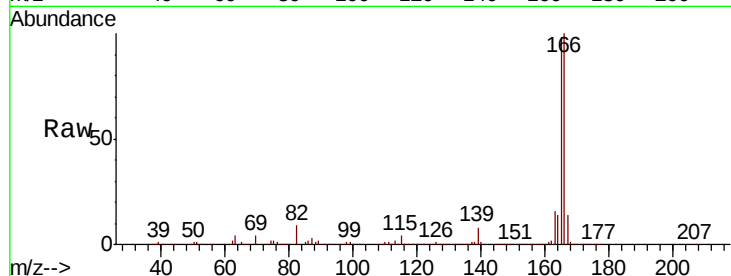
#58  
 Fluorene  
 Concen: 117.214 ng/ul  
 RT: 15.42 min Scan# 2114  
 Delta R.T. 0.01 min  
 Lab File: BM021529.D  
 Acq: 18 Jul 2019 18:30

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BF4B1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.9  | 78.6  | 117.8 |
| 167     | 13.8  | 10.7  | 16.1  |

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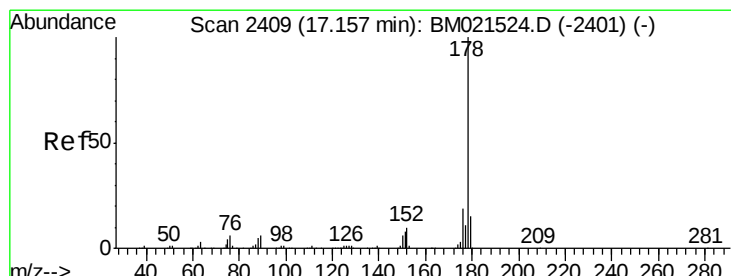
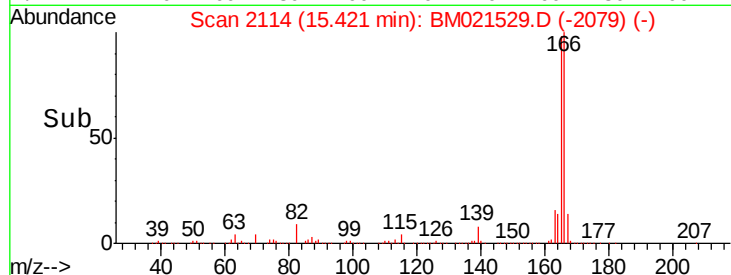
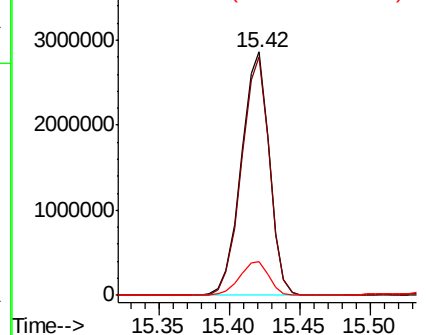


Abundance

Ion 166.00 (165.70 to 166.70): E

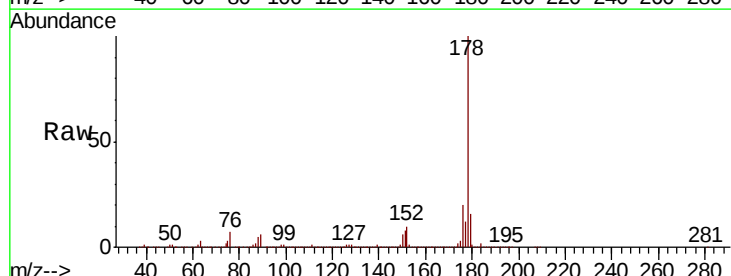
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#69  
 Phenanthrene  
 Concen: 185.360 ng/ul  
 RT: 17.16 min Scan# 2410  
 Delta R.T. 0.01 min  
 Lab File: BM021529.D  
 Acq: 18 Jul 2019 18:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.3  | 12.2  | 18.2  |
| 176     | 19.9  | 15.4  | 23.0  |

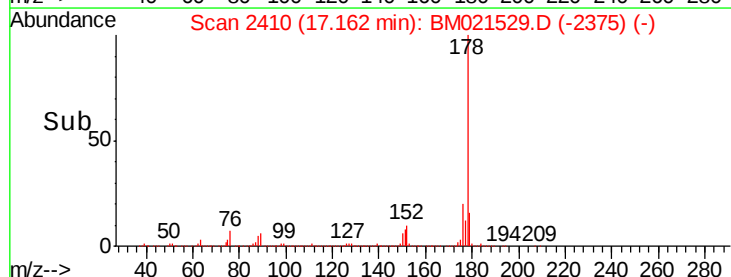
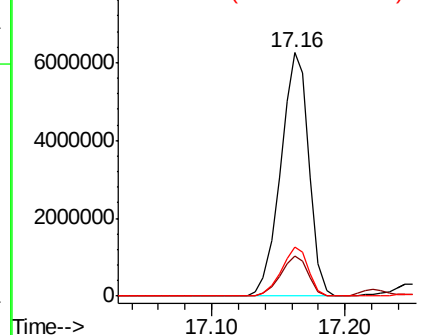


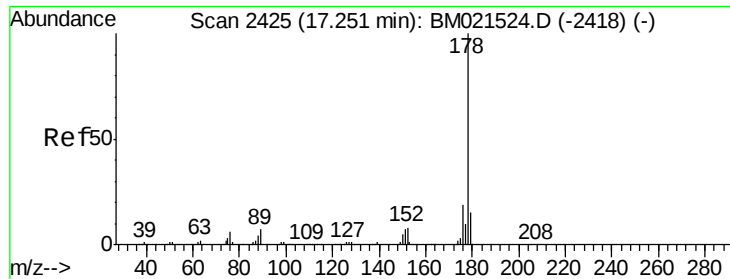
Abundance

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





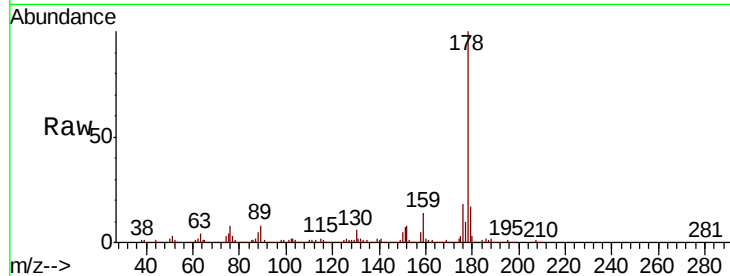
#71  
 Anthracene  
 Concen: 9.742 ng/ul  
 RT: 17.24 min Scan# 2424  
 Delta R.T. -0.01 min  
 Lab File: BM021529.D  
 Acq: 18 Jul 2019 18:30

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BF4B1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.3  | 12.2  | 18.2  |
| 176     | 18.1  | 14.9  | 22.3  |

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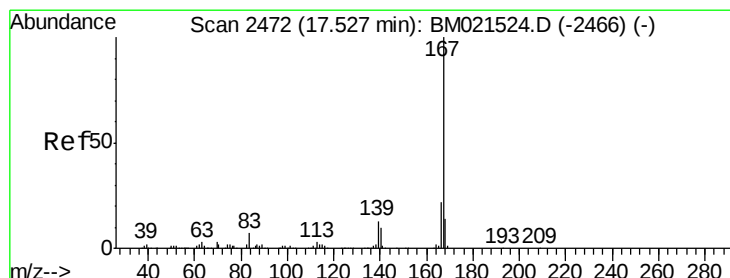
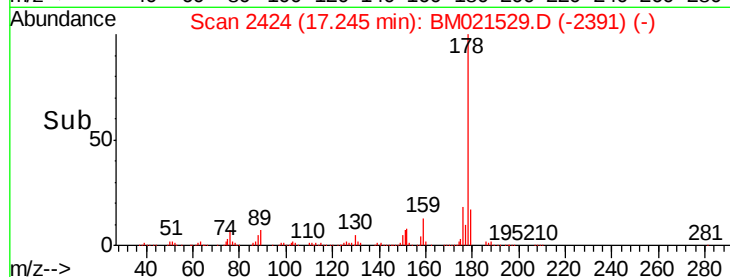
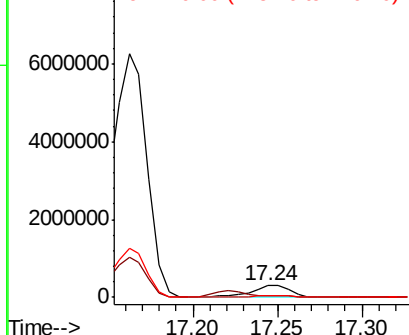


Abundance

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



#74  
 Carbazole  
 Concen: 162.916 ng/ul  
 RT: 17.53 min Scan# 2473  
 Delta R.T. 0.01 min  
 Lab File: BM021529.D  
 Acq: 18 Jul 2019 18:30

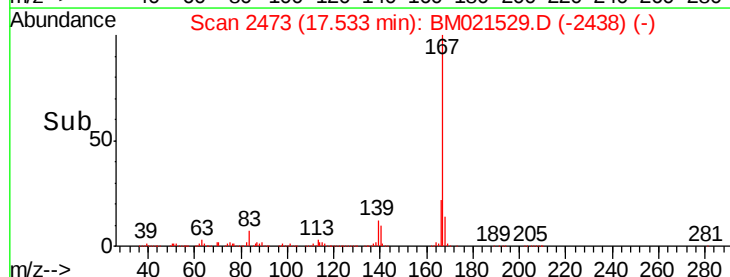
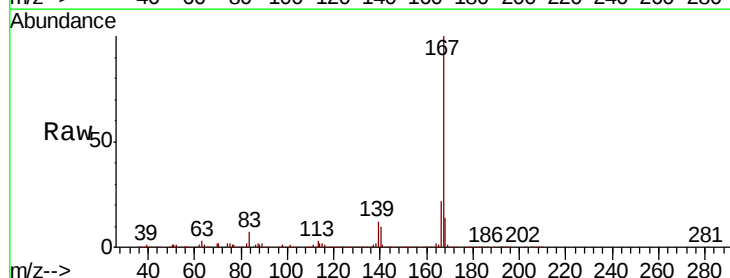
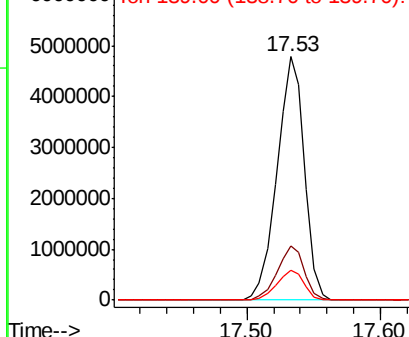
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.2  | 17.1  | 25.7  |
| 139     | 12.3  | 9.7   | 14.5  |

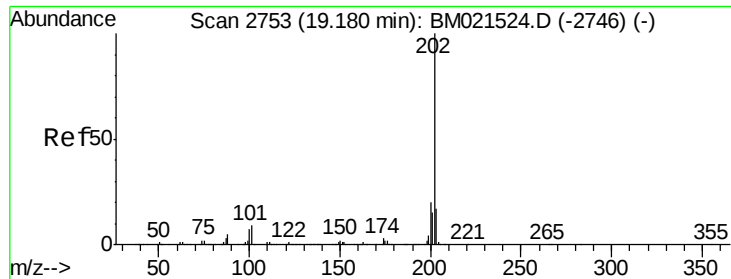
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





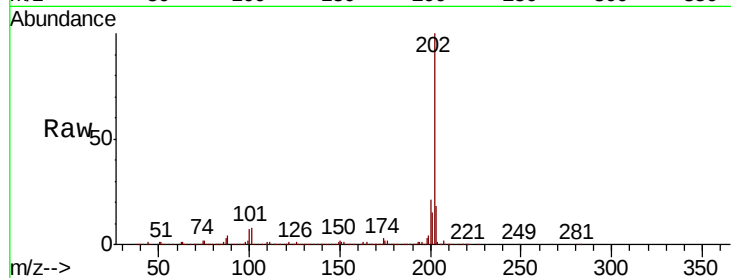
#76  
 Fluoranthene  
 Concen: 17.114 ng/ul  
 RT: 19.17 min Scan# 2752  
 Delta R.T. -0.01 min  
 Lab File: BM021529.D  
 Acq: 18 Jul 2019 18:30

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BF4B1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.5   | 6.7   | 10.1  |
| 100     | 6.8   | 5.3   | 7.9   |

Manual Integrations  
 APPROVED

mohammad  
 7/19/2019 4:01:25 PM

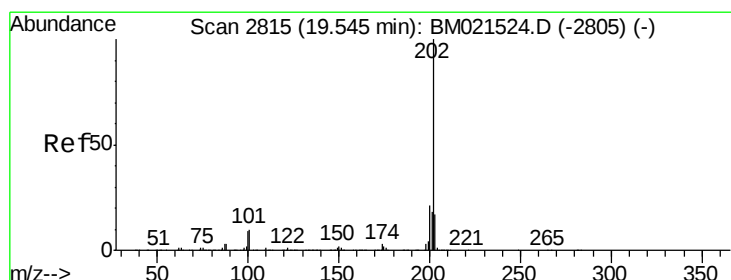
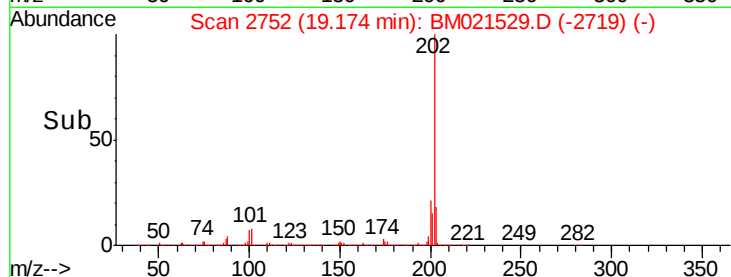
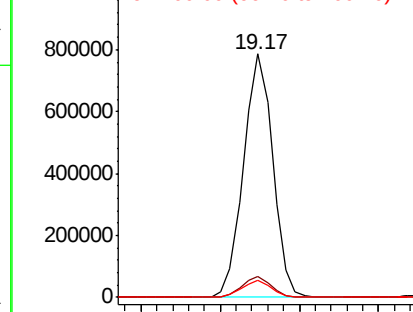


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#79  
 Pyrene  
 Concen: 10.452 ng/ul  
 RT: 19.54 min Scan# 2814  
 Delta R.T. -0.01 min  
 Lab File: BM021529.D  
 Acq: 18 Jul 2019 18:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.2  | 7.8   | 11.8  |
| 100     | 8.8   | 6.4   | 9.6   |

Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

