

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042219\  
 Data File : BN005194.D  
 Acq On : 23 Apr 2019 03:20  
 Operator : JU/SJ  
 Sample : K2455-09  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAHQ9

Manual Integrations  
 APPROVED

Sohil  
 4/23/2019 4:19:46 PM

Quant Time: Apr 23 04:40:48 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Apr 23 03:50:45 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.60  | 152  | 474033   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.36 | 136  | 2226633  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.23 | 164  | 1661281  | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.99 | 188  | 3838706  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.21 | 240  | 3183904  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.40 | 264  | 2997448  | 20.00 | ng/ul | -0.02    |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.22  | 96  | 102024  | 10.39 | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.78  | 99  | 999393  | 26.84 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.95  | 67  | 650269  | 28.00 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 793148  | 27.84 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.29  | 113 | 781615  | 26.86 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.73  | 128 | 394417  | 28.78 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 440633  | 31.71 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.98  | 165 | 820587  | 25.77 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.49 | 131 | 1049359 | 31.95 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.65 | 166 | 2649228 | 21.97 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.92 | 160 | 3168680 | 21.39 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.43 | 143 | 373251  | 19.60 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.23 | 176 | 2196911 | 21.71 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.35 | 200 | 304355  | 17.63 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.08 | 188 | 3349720 | 20.82 | ng/ul | 0.00  |
| 78) Pyrene-d10                 | 19.39 | 212 | 3636515 | 22.33 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.27 | 264 | 2851262 | 21.77 | ng/ul | -0.01 |

## Target Compounds

|                            |       |     |          |        | Ovalue |     |
|----------------------------|-------|-----|----------|--------|--------|-----|
| 28) Naphthalene            | 10.40 | 128 | 334998   | 3.236  | ng/ul  | 99  |
| 34) 2-Methylnaphthalene    | 12.03 | 142 | 5653112  | 74.586 | ng/ul  | 99  |
| 40) 1,1'-Biphenyl          | 13.06 | 154 | 670273   | 5.415  | ng/ul  | 99  |
| 44) Dimethylphthalate      | 13.70 | 163 | 492656   | 4.100  | ng/ul  | 99  |
| 47) Acenaphthylene         | 13.95 | 152 | 1819394  | 12.499 | ng/ul# | 95  |
| 49) Acenaphthene           | 14.29 | 153 | 243550   | 2.451  | ng/ul  | 99  |
| 53) Dibenzofuran           | 14.63 | 168 | 380048   | 2.656  | ng/ul  | 92  |
| 58) Fluorene               | 15.29 | 166 | 1676616  | 15.018 | ng/ul  | 98  |
| 69) Phenanthrene           | 17.03 | 178 | 7931690  | 42.427 | ng/ul  | 98  |
| 71) Anthracene             | 17.12 | 178 | 1690074  | 8.874  | ng/ul  | 100 |
| 76) Fluoranthene           | 19.06 | 202 | 1852346  | 8.933  | ng/ul  | 99  |
| 79) Pyrene                 | 19.42 | 202 | 2920809  | 14.248 | ng/ul  | 99  |
| 82) Benzo(a)anthracene     | 21.19 | 228 | 1044141m | 5.272  | ng/ul  |     |
| 84) Chrysene               | 21.25 | 228 | 879319   | 4.783  | ng/ul  | 98  |
| 87) Benzo(b)fluoranthene   | 22.76 | 252 | 520179m  | 3.087  | ng/ul  |     |
| 90) Benzo(a)pyrene         | 23.31 | 252 | 545844   | 3.446  | ng/ul  | 99  |
| 91) Indeno(1,2,3-cd)pyrene | 25.57 | 276 | 176300   | 1.007  | ng/ul  | 97  |

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

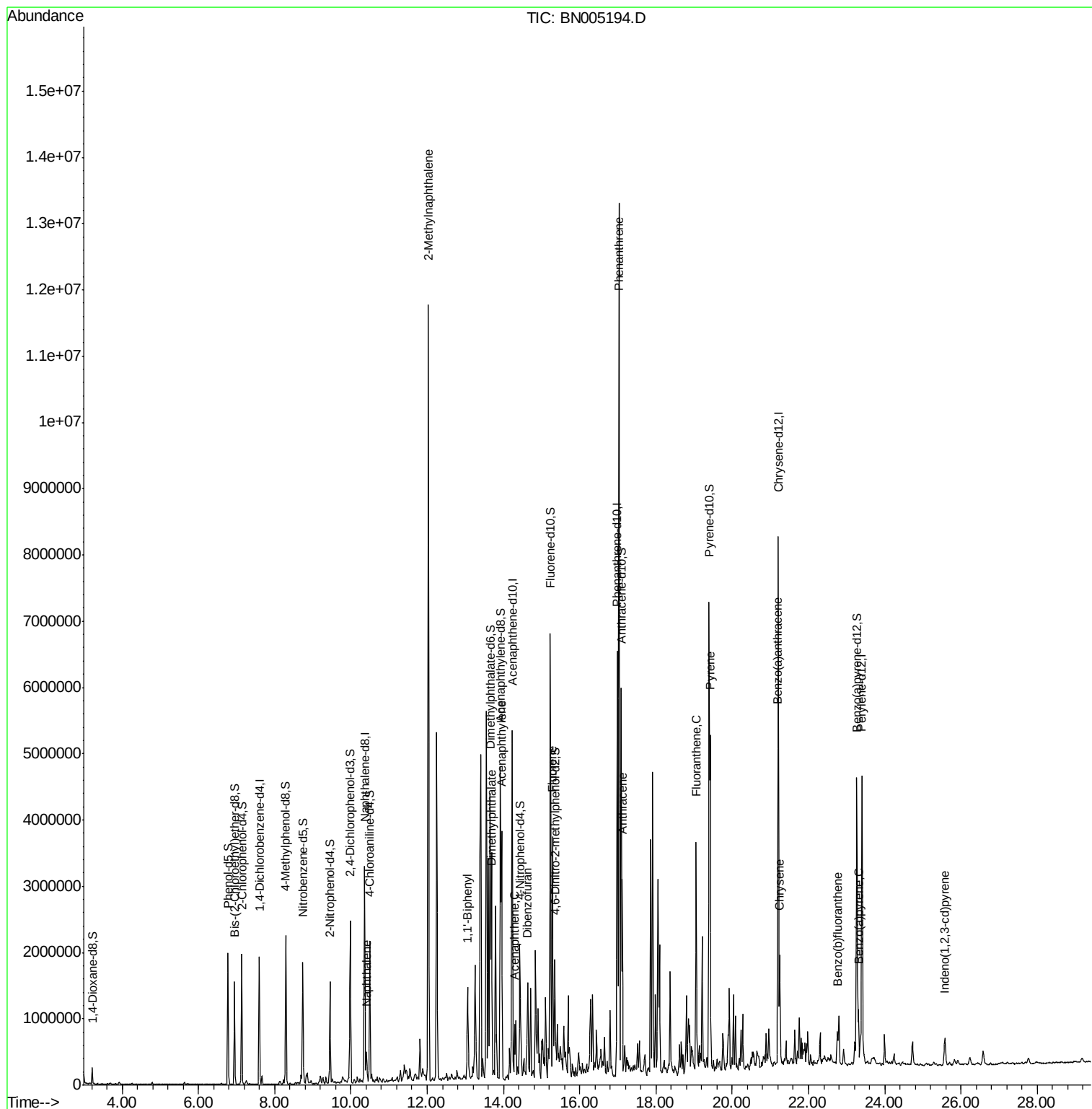
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042219\  
Data File : BN005194.D  
Acq On : 23 Apr 2019 03:20  
Operator : JU/SJ  
Sample : K2455-09  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

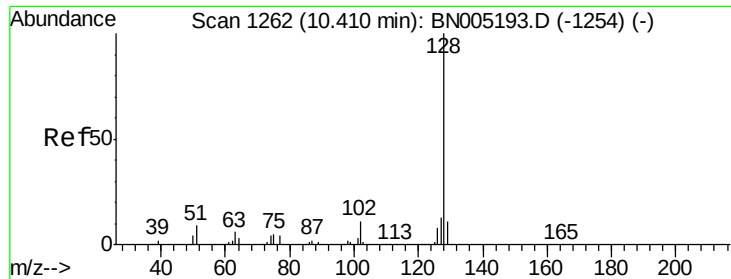
Instrument :  
BNA\_N  
ClientSampleId :  
GAHQ9

Manual Integrations  
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4/23/2019 4:19:46 PM

Quant Time: Apr 23 04:40:48 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Apr 23 03:50:45 2019  
Response via : Initial Calibration





#28

Naphthalene

Concen: 3.236 ng/ul

RT: 10.40 min Scan# 1261

Delta R.T. -0.01 min

Lab File: BN005194.D

Acq: 23 Apr 2019 03:20

Instrument :

BNA\_N

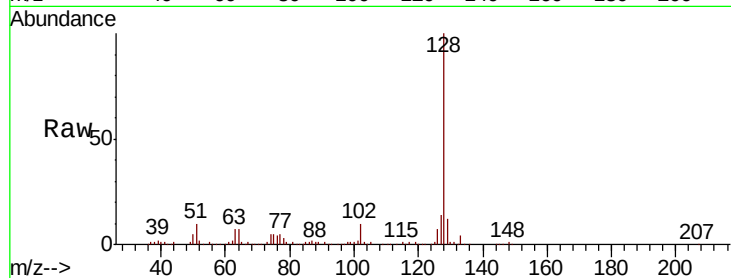
ClientSampled :

GAHQ9

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 128     | 100  |       | 334998 |       |       |
| 129     | 12.0 | 9.2   |        | 13.8  |       |
| 127     | 13.6 | 10.7  |        | 16.1  |       |

Manual Integrations  
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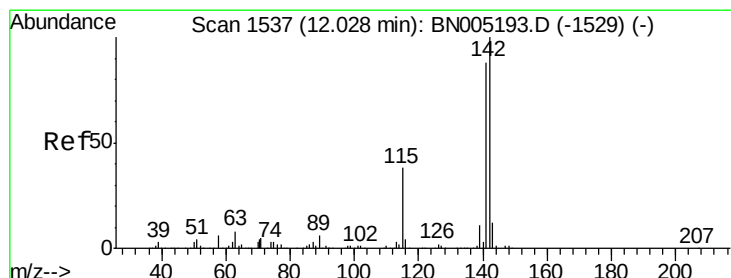
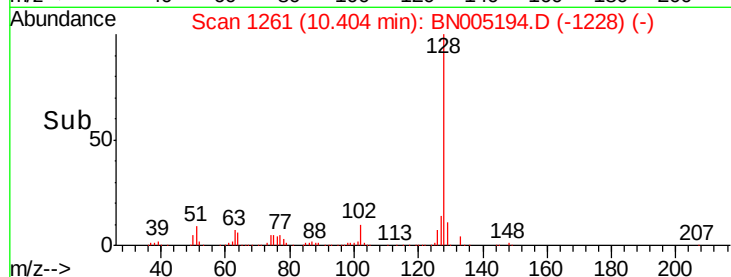
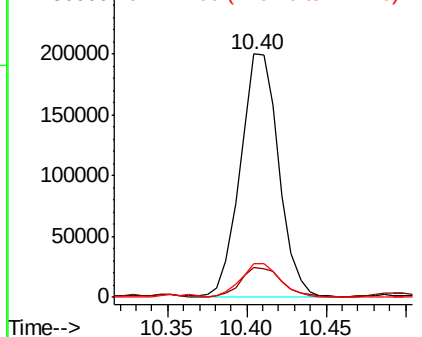


Abundance

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: 74.586 ng/ul

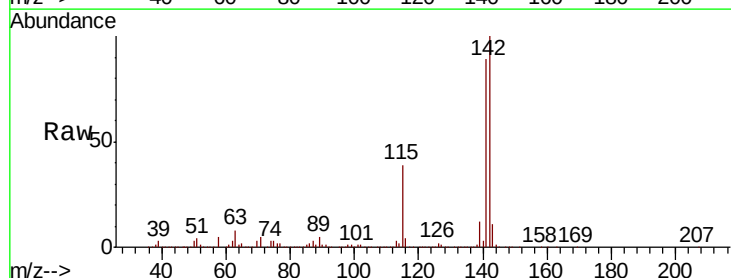
RT: 12.03 min Scan# 1538

Delta R.T. 0.00 min

Lab File: BN005194.D

Acq: 23 Apr 2019 03:20

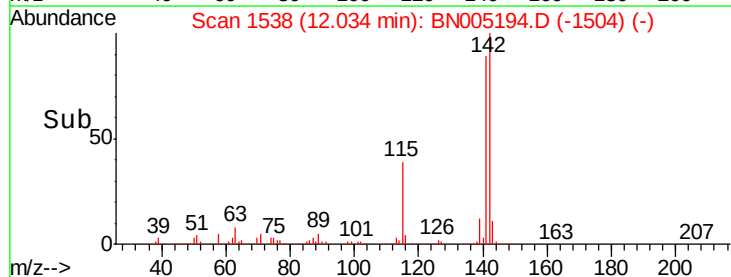
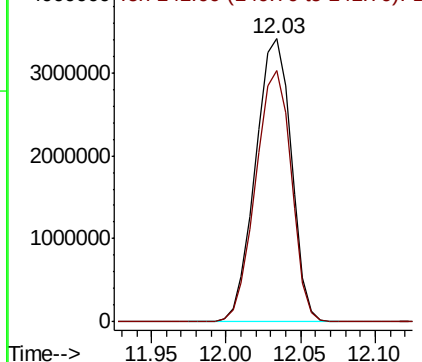
| Tgt Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 142     | 100  |       | 5653112 |       |       |
| 141     | 89.0 | 72.0  |         | 108.0 |       |

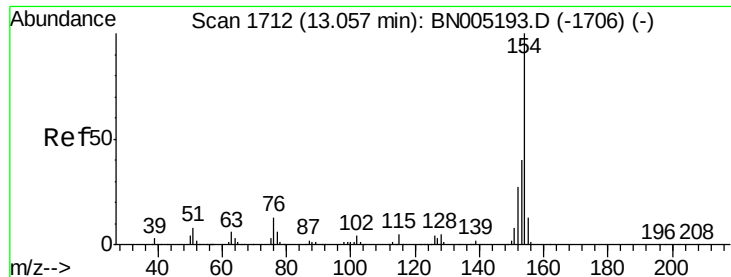


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#40

1,1'-Biphenyl

Concen: 5.415 ng/ul

RT: 13.06 min Scan# 1712

Delta R.T. -0.01 min

Lab File: BN005194.D

Acq: 23 Apr 2019 03:20

Instrument :

BNA\_N

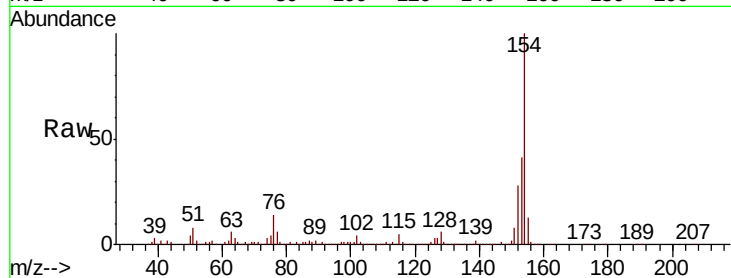
ClientSampleId :

GAHQ9

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 154  | Resp: | 670273 |
| Ion Ratio |      | Lower | Upper  |
| 154       | 100  |       |        |
| 153       | 41.0 | 32.6  | 49.0   |
| 76        | 13.5 | 10.4  | 15.6   |

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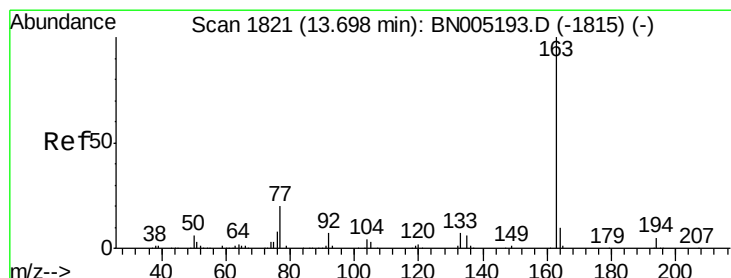
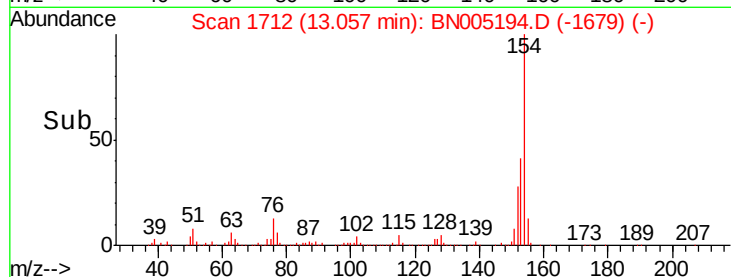
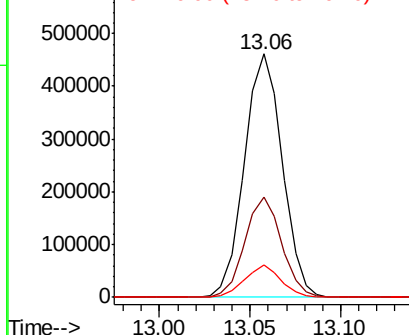


Abundance

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): BNC



#44

Dimethylphthalate

Concen: 4.100 ng/ul

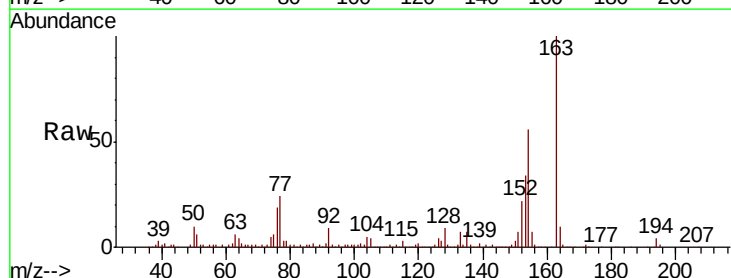
RT: 13.70 min Scan# 1821

Delta R.T. -0.01 min

Lab File: BN005194.D

Acq: 23 Apr 2019 03:20

|           |     |       |        |
|-----------|-----|-------|--------|
| Tgt Ion:  | 163 | Resp: | 492656 |
| Ion Ratio |     | Lower | Upper  |
| 163       | 100 |       |        |
| 194       | 4.2 | 3.4   | 5.0    |
| 164       | 9.7 | 8.1   | 12.1   |

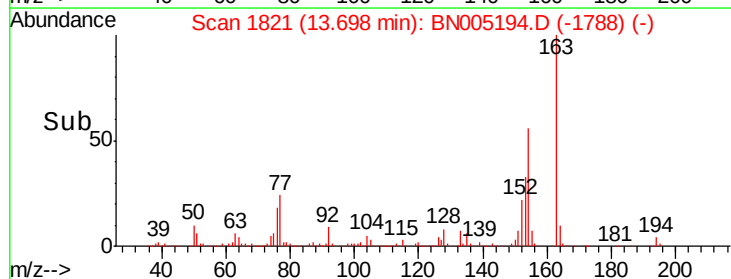
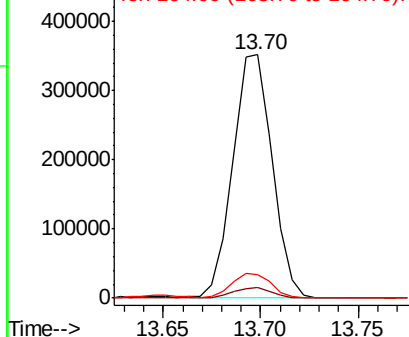


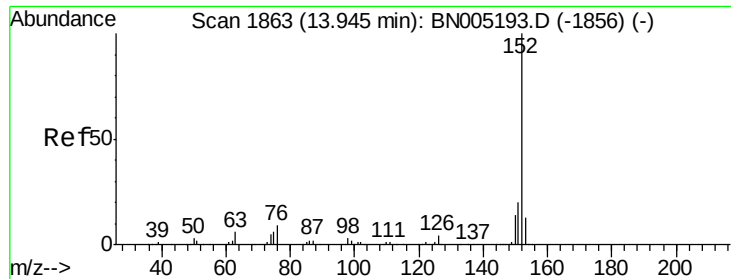
Abundance

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: 12.499 ng/ul

RT: 13.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: BN005194.D

Acq: 23 Apr 2019 03:20

Instrument :

BNA\_N

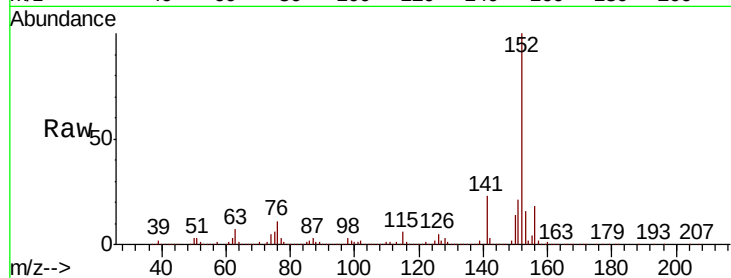
ClientSampleId :

GAHQ9

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 152   | Resp: | 1819394 |
| Ion      | Ratio | Lower | Upper   |
| 152      | 100   |       |         |
| 151      | 20.8  | 15.8  | 23.8    |
| 153      | 15.7  | 9.8   | 14.8#   |

Manual Integrations  
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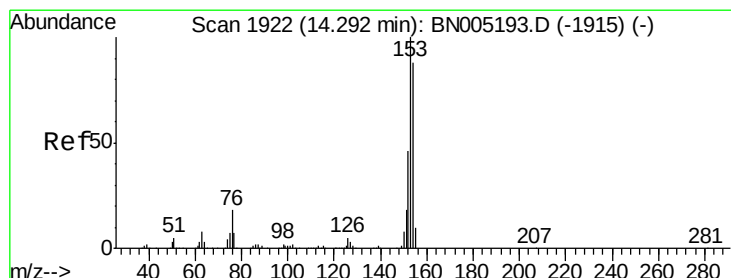
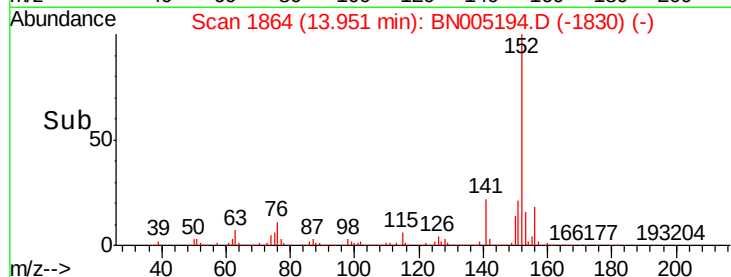
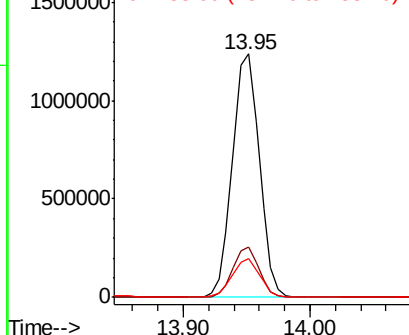


Abundance

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



#49

Acenaphthene

Concen: 2.451 ng/ul

RT: 14.29 min Scan# 1922

Delta R.T. -0.01 min

Lab File: BN005194.D

Acq: 23 Apr 2019 03:20

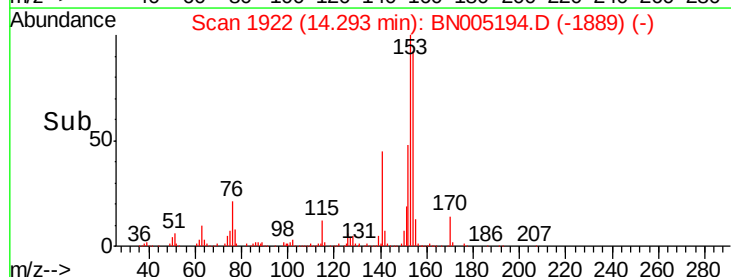
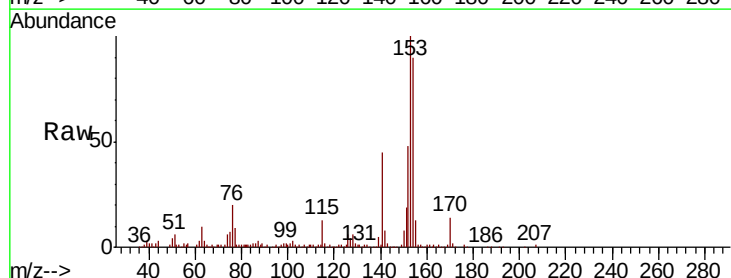
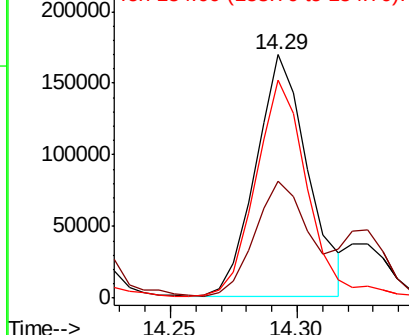
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 153   | Resp: | 243550 |
| Ion      | Ratio | Lower | Upper  |
| 153      | 100   |       |        |
| 152      | 48.1  | 37.4  | 56.0   |
| 154      | 89.6  | 71.2  | 106.8  |

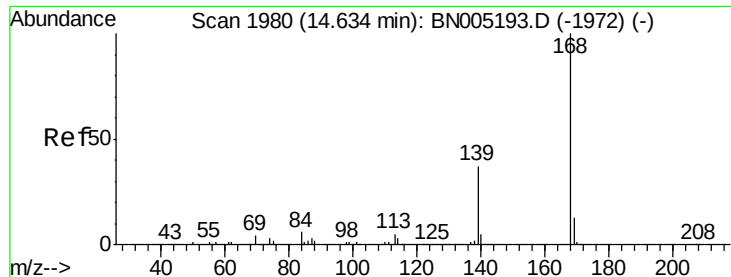
Abundance

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





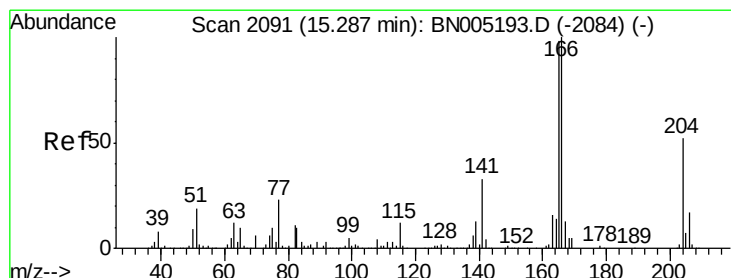
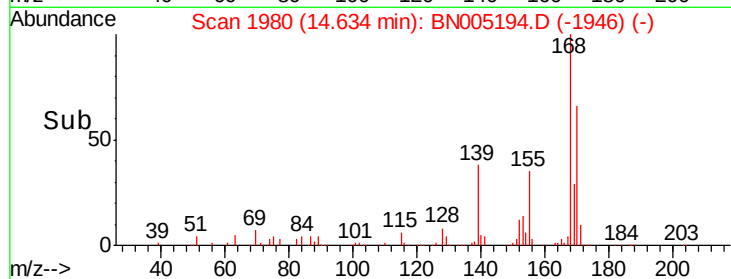
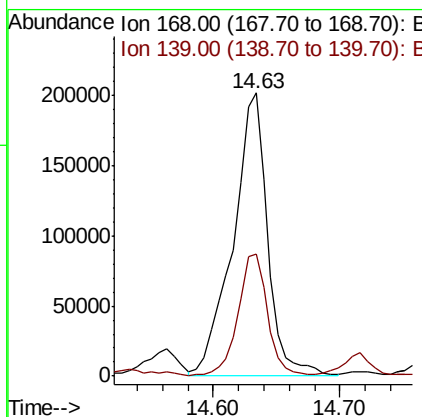
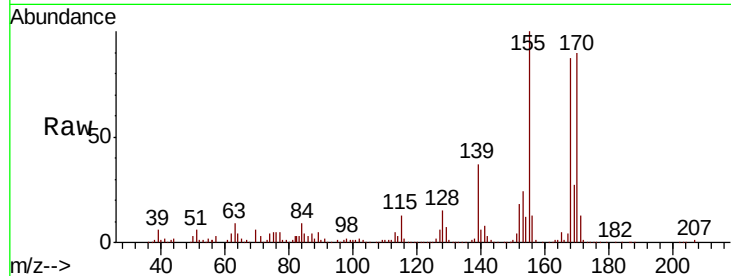
#53  
Dibenzenofuran  
Concen: 2.656 ng/ul  
RT: 14.63 min Scan# 1980  
Delta R.T. 0.00 min  
Lab File: BN005194.D  
Acq: 23 Apr 2019 03:20

Instrument :  
BNA\_N  
ClientSampled :  
GAHQ9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 43.2  | 30.9  | 46.3  |

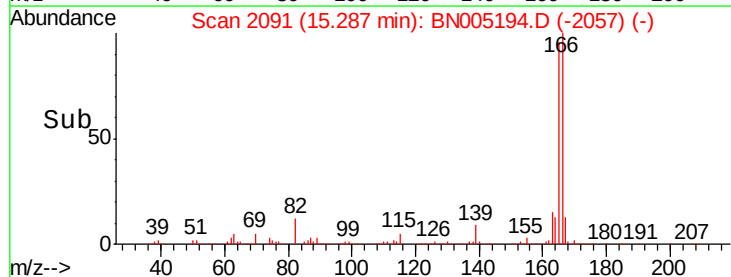
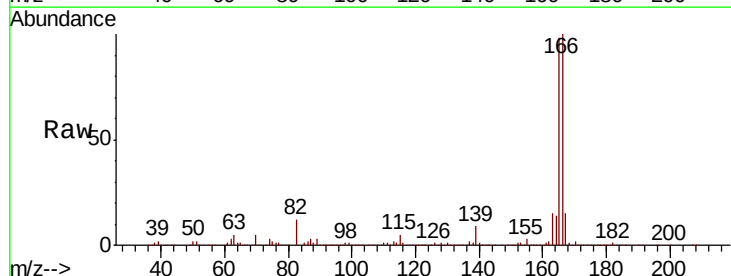
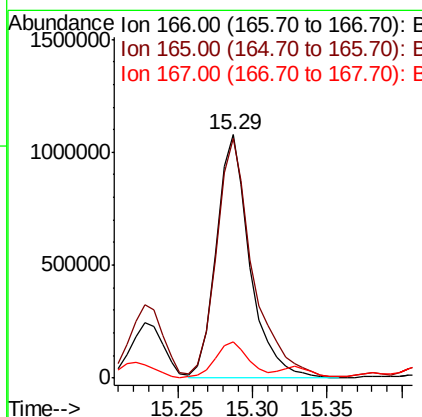
Manual Integrations  
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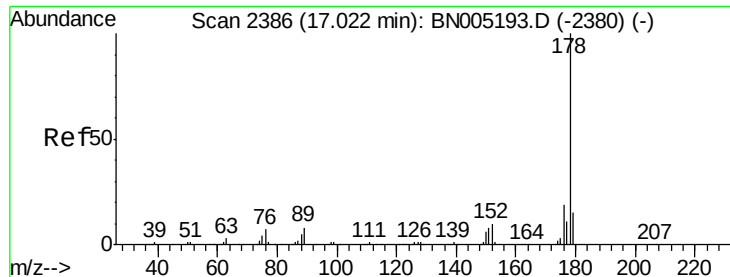
Sohil  
4/23/2019 4:19:46 PM



#58  
Fluorene  
Concen: 15.018 ng/ul  
RT: 15.29 min Scan# 2091  
Delta R.T. 0.00 min  
Lab File: BN005194.D  
Acq: 23 Apr 2019 03:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.3  | 80.0  | 120.0 |
| 167     | 15.0  | 10.7  | 16.1  |





#69

Phenanthrene

Concen: 42.427 ng/ul

RT: 17.03 min Scan# 2387

Delta R.T. 0.00 min

Lab File: BN005194.D

Acq: 23 Apr 2019 03:20

Instrument :

BNA\_N

ClientSampleId :

GAHQ9

Tot Ion:178 Resp: 7931690

Ion Ratio Lower Upper

178 100

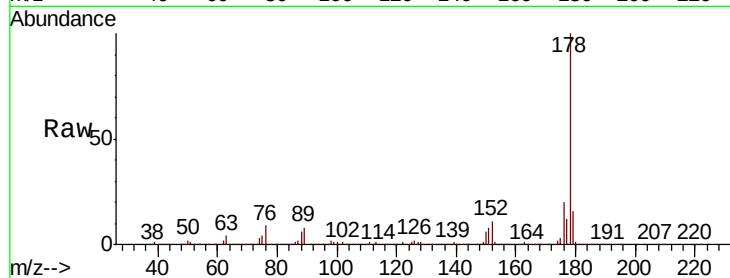
179 16.3 12.2 18.4

176 19.7 15.1 22.7

Manual Integrations  
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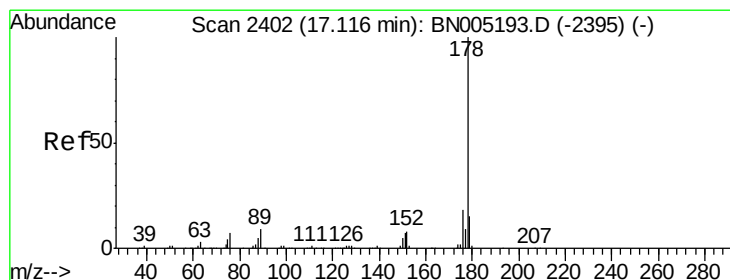
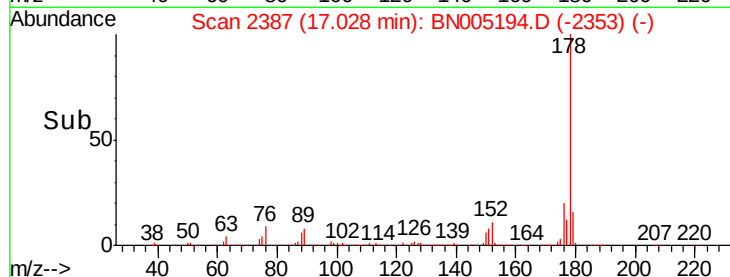
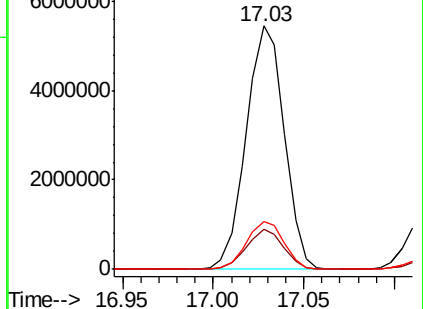
4/23/2019 4:19:46 PM



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: 8.874 ng/ul

RT: 17.12 min Scan# 2402

Delta R.T. -0.01 min

Lab File: BN005194.D

Acq: 23 Apr 2019 03:20

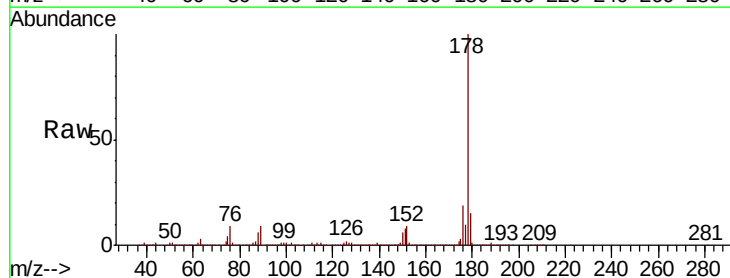
Tgt Ion:178 Resp: 1690074

Ion Ratio Lower Upper

178 100

179 15.3 12.3 18.5

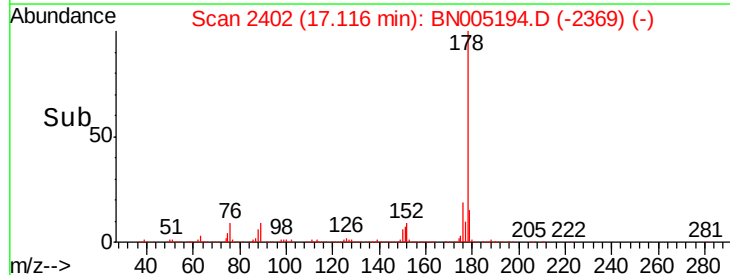
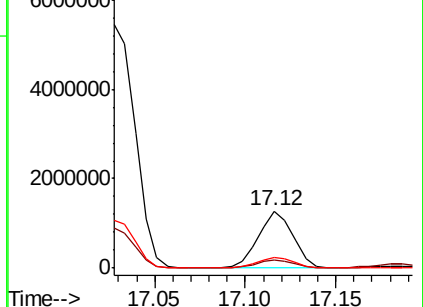
176 18.9 15.1 22.7

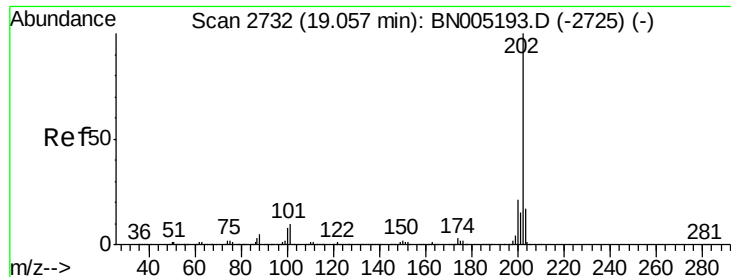


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#76

Fluoranthene

Concen: 8.933 ng/ul

RT: 19.06 min Scan# 2732

Delta R.T. 0.00 min

Lab File: BN005194.D

Acq: 23 Apr 2019 03:20

Instrument :

BNA\_N

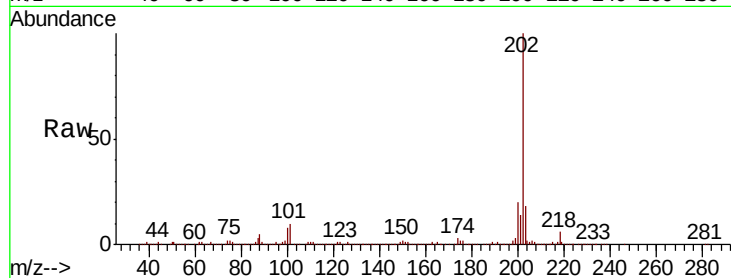
ClientSampleId :

GAHQ9

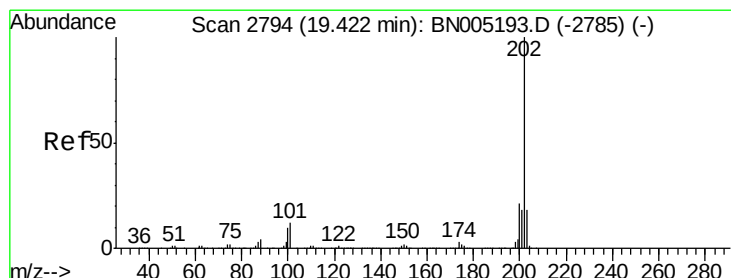
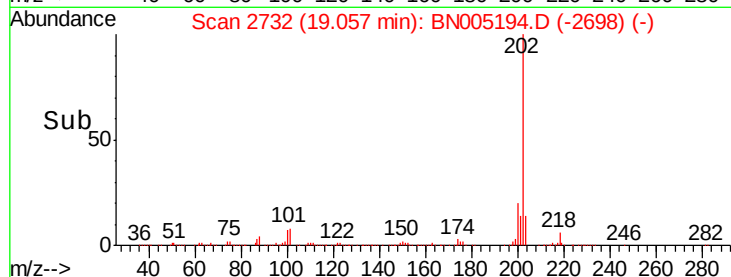
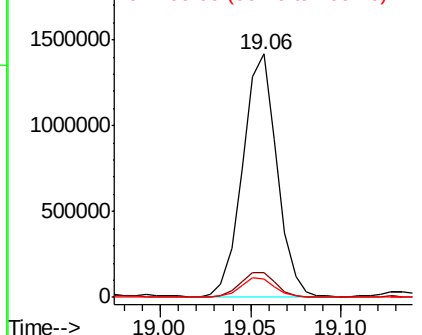
|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 1852346 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 10.2  | 8.6   | 12.8    |
| 100       | 7.7   | 6.3   | 9.5     |

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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: 14.248 ng/ul

RT: 19.42 min Scan# 2794

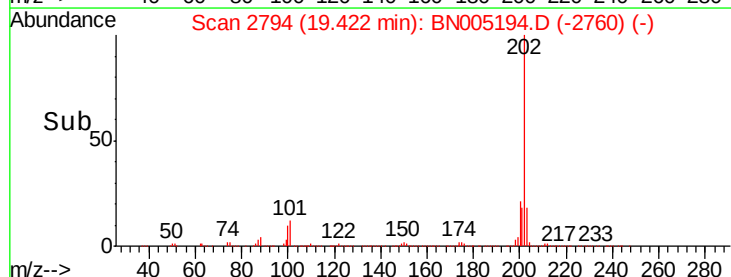
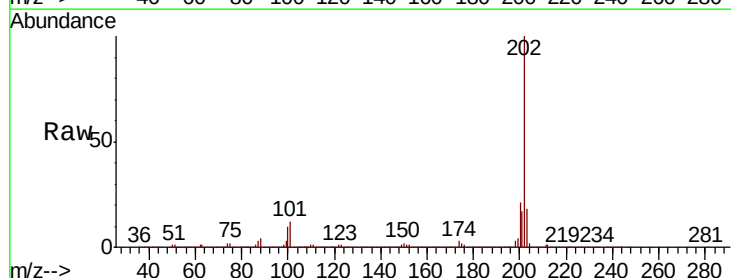
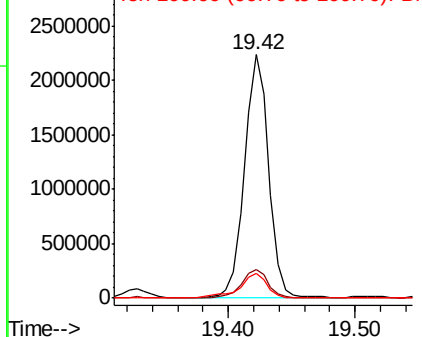
Delta R.T. 0.00 min

Lab File: BN005194.D

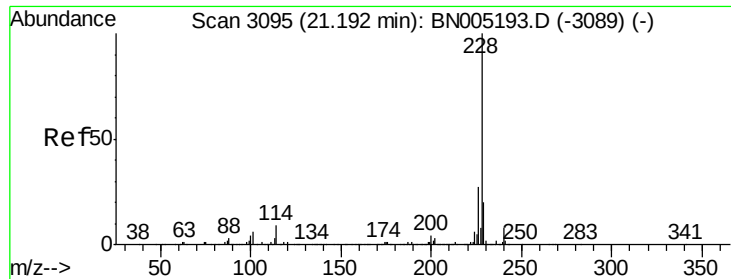
Acq: 23 Apr 2019 03:20

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 2920809 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 12.0  | 10.3  | 15.5    |
| 100       | 10.0  | 7.9   | 11.9    |

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







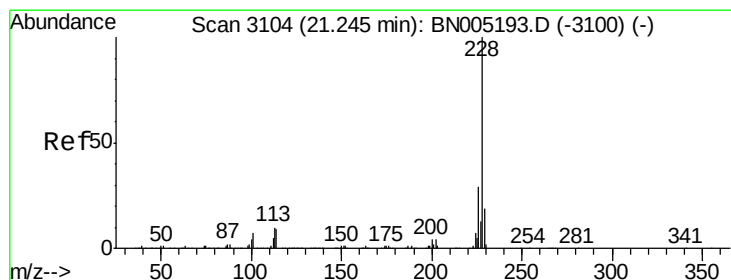
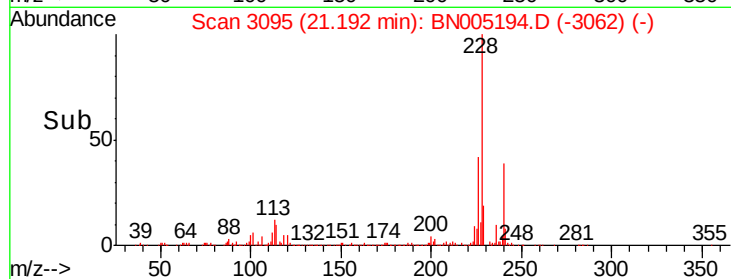
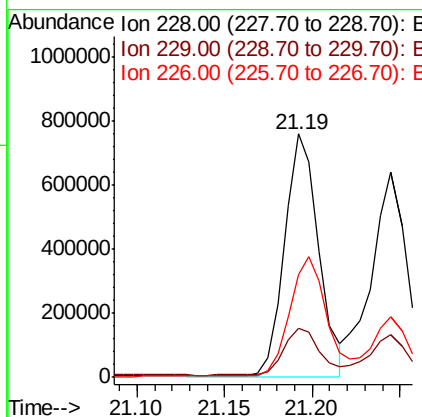
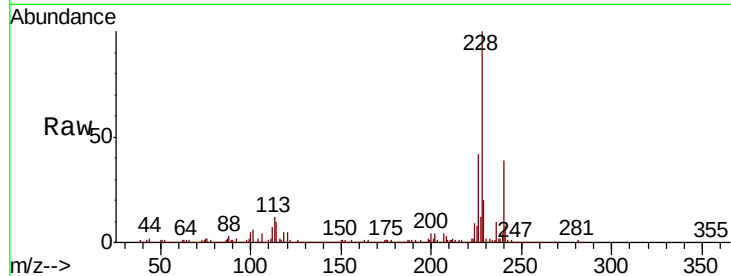
#82  
Benzo(a)anthracene  
Concen: 5.272 ng/ul m  
RT: 21.19 min Scan# 3095  
Delta R.T. -0.01 min  
Lab File: BN005194.D  
Acq: 23 Apr 2019 03:20

Instrument :  
BNA\_N  
ClientSampled :  
GAHQ9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.2  | 15.8  | 23.6  |
| 226     | 42.2  | 21.4  | 32.2  |

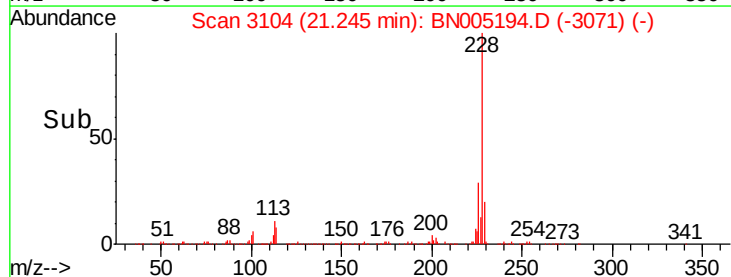
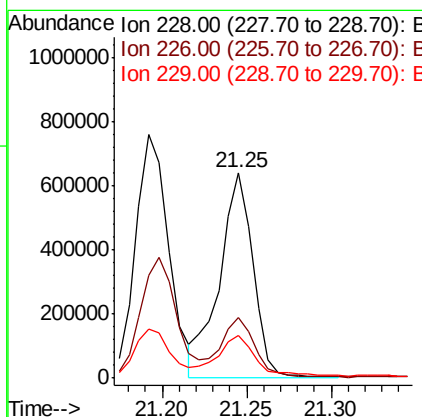
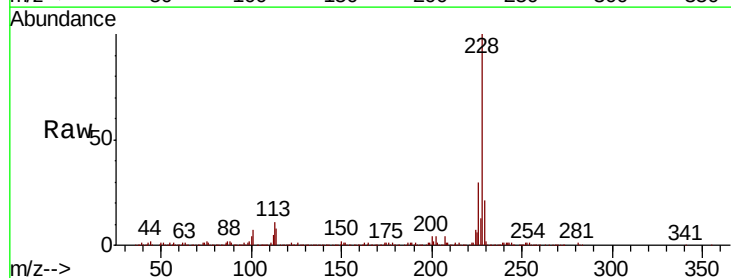
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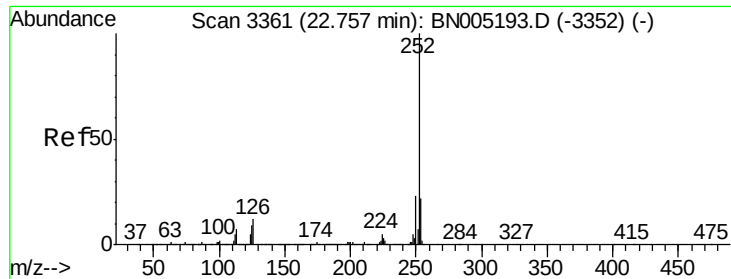
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#84  
Chrysene  
Concen: 4.783 ng/ul  
RT: 21.25 min Scan# 3104  
Delta R.T. -0.01 min  
Lab File: BN005194.D  
Acq: 23 Apr 2019 03:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.6  | 24.0  | 36.0  |
| 229     | 20.6  | 15.4  | 23.0  |





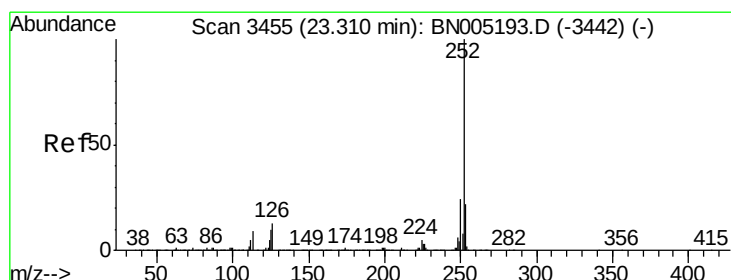
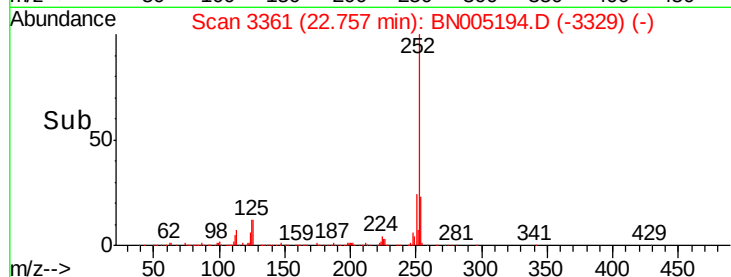
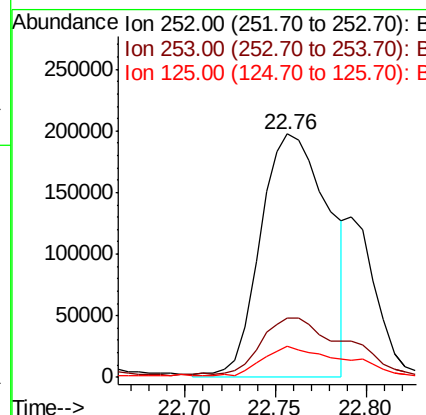
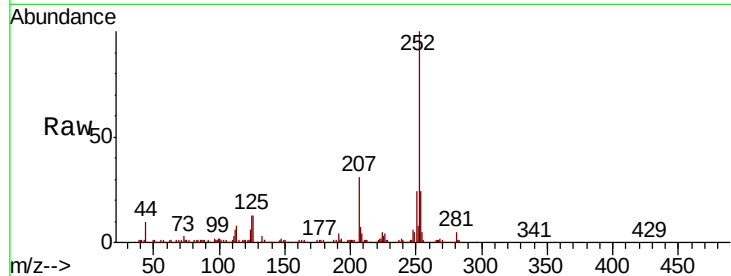
#87  
Benzo(b)fluoranthene  
Concen: 3.087 ng/ul  
RT: 22.76 min Scan# 3361  
Delta R.T. -0.01 min  
Lab File: BN005194.D  
Acq: 23 Apr 2019 03:20

Instrument :  
BNA\_N  
ClientSampled :  
GAHQ9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 17.7  | 26.5  |
| 125     | 12.8  | 8.4   | 12.6  |

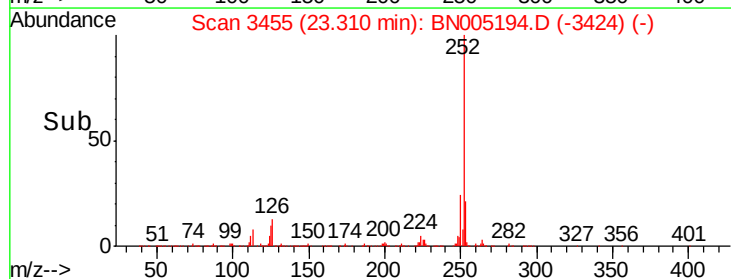
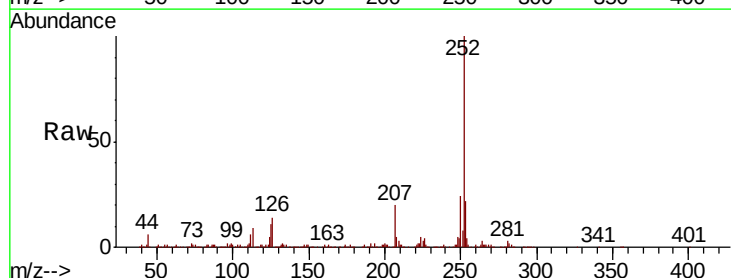
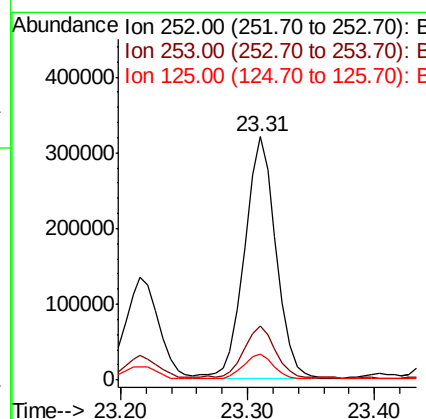
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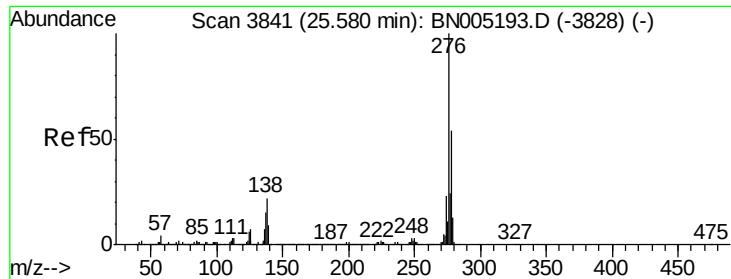
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#90  
Benzo(a)pyrene  
Concen: 3.446 ng/ul  
RT: 23.31 min Scan# 3455  
Delta R.T. -0.02 min  
Lab File: BN005194.D  
Acq: 23 Apr 2019 03:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.3  | 25.9  |
| 125     | 10.7  | 8.6   | 13.0  |





#91  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.007 ng/ul  
 RT: 25.57 min Scan# 3840  
 Delta R.T. -0.03 min  
 Lab File: BN005194.D  
 Acq: 23 Apr 2019 03:20

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAHQ9

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 276  | Resp: | 176300 |
| Ion Ratio |      | Lower | Upper  |
| 276       | 100  |       |        |
| 138       | 20.2 | 17.9  | 26.9   |
| 277       | 23.4 | 19.7  | 29.5   |

Manual Integrations  
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