

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101718\  
 Data File : BN003194.D  
 Acq On : 17 Oct 2018 23:33  
 Operator : MJ/SJ  
 Sample : PB113685BS  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB113685BS

Manual Integrations  
 APPROVED

Sohil  
 10/18/2018 4:41:09 PM

Quant Time: Oct 18 16:25:09 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN101718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 18 15:26:23 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 718      | 0.40 | ng    | 0.02     |
| 7) Naphthalene-d8         | 10.47 | 136  | 3186     | 0.40 | ng    | 0.04     |
| 13) Acenaphthene-d10      | 14.30 | 164  | 2181     | 0.40 | ng    | 0.02     |
| 19) Phenanthrene-d10      | 17.06 | 188  | 6223     | 0.40 | ng    | 0.01     |
| 27) Chrysene-d12          | 21.25 | 240  | 8463     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.47 | 264  | 9221     | 0.40 | ng    | 0.00     |

|                             |       |     |      |      |    |      |
|-----------------------------|-------|-----|------|------|----|------|
| System Monitoring Compounds |       |     |      |      |    |      |
| 4) 2-Fluorophenol           | 5.36  | 112 | 393m | 0.25 | ng | 0.06 |
| 5) Phenol-d6                | 7.05  | 99  | 548m | 0.24 | ng | 0.11 |
| 8) Nitrobenzene-d5          | 8.96  | 82  | 439m | 0.21 | ng | 0.09 |
| 11) 2-Methylnaphthalene-d10 | 12.10 | 152 | 1691 | 0.31 | ng | 0.06 |
| 14) 2,4,6-Tribromophenol    | 15.86 | 330 | 305  | 0.22 | ng | 0.03 |
| 15) 2-Fluorobiphenyl        | 12.96 | 172 | 1892 | 0.22 | ng | 0.03 |
| 25) Fluoranthene-d10        | 19.10 | 212 | 4533 | 0.24 | ng | 0.02 |
| 29) Terphenyl-d14           | 19.69 | 244 | 3319 | 0.18 | ng | 0.01 |

|                                |       |     |      |       |    |        |
|--------------------------------|-------|-----|------|-------|----|--------|
| Target Compounds               |       |     |      |       |    | Qvalue |
| 2) 1,4-Dioxane                 | 3.22  | 88  | 430  | 0.413 | ng | # 54   |
| 3) n-Nitrosodimethylamine      | 3.63  | 42  | 24   | 0.191 | ng | # 1    |
| 6) bis(2-Chloroethyl)ether     | 7.17  | 93  | 635  | 0.335 | ng | # 64   |
| 9) Naphthalene                 | 10.53 | 128 | 1909 | 0.241 | ng | # 79   |
| 10) Hexachlorobutadiene        | 10.72 | 225 | 342  | 0.220 | ng | # 97   |
| 12) 2-Methylnaphthalene        | 12.17 | 142 | 1273 | 0.235 | ng | 96     |
| 16) Acenaphthylene             | 14.03 | 152 | 2256 | 0.228 | ng | 99     |
| 17) Acenaphthene               | 14.37 | 154 | 1500 | 0.227 | ng | 99     |
| 18) Fluorene                   | 15.38 | 166 | 2068 | 0.241 | ng | 98     |
| 20) 4-Bromophenyl-phenylether  | 16.26 | 248 | 707m | 0.203 | ng |        |
| 21) Hexachlorobenzene          | 16.37 | 284 | 809m | 0.211 | ng |        |
| 22) Pentachlorophenol          | 16.78 | 266 | 223  | 0.338 | ng | 90     |
| 23) Phenanthrene               | 17.11 | 178 | 3733 | 0.229 | ng | 99     |
| 24) Anthracene                 | 17.22 | 178 | 3368 | 0.226 | ng | 99     |
| 26) Fluoranthene               | 19.13 | 202 | 5227 | 0.250 | ng | 99     |
| 28) Pyrene                     | 19.49 | 202 | 5379 | 0.227 | ng | 99     |
| 30) Benzo(a)anthracene         | 21.24 | 228 | 5673 | 0.249 | ng | 99     |
| 31) Chrysene                   | 21.29 | 228 | 5968 | 0.230 | ng | 98     |
| 32) Bis(2-ethylhexyl)phthalate | 21.13 | 149 | 3013 | 0.223 | ng | 99     |
| 33) Indeno(1,2,3-cd)pyrene     | 25.72 | 276 | 7436 | 0.242 | ng | 99     |
| 35) Benzo(b)fluoranthene       | 22.81 | 252 | 6112 | 0.245 | ng | 96     |
| 36) Benzo(k)fluoranthene       | 22.86 | 252 | 7136 | 0.243 | ng | # 94   |
| 37) Benzo(a)pyrene             | 23.39 | 252 | 6414 | 0.250 | ng | # 93   |
| 38) Dibenzo(a,h)anthracene     | 25.71 | 278 | 6167 | 0.235 | ng | # 95   |
| 39) Benzo(g,h,i)perylene       | 26.39 | 276 | 6416 | 0.242 | ng | 97     |

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

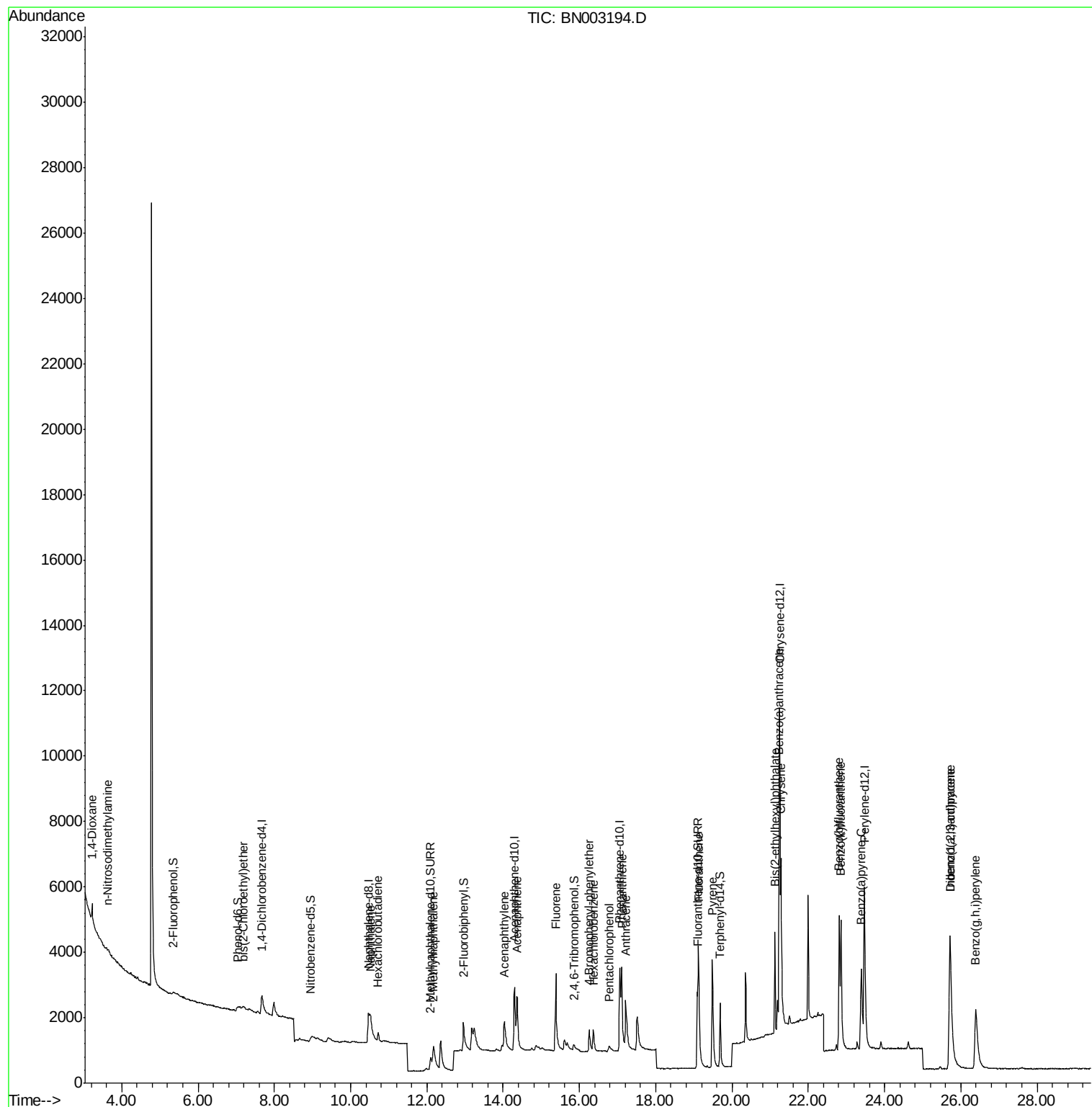
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101718\  
Data File : BN003194.D  
Acq On : 17 Oct 2018 23:33  
Operator : MJ/SJ  
Sample : PB113685BS  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

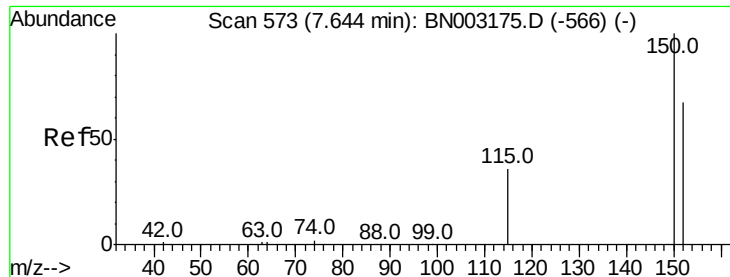
Instrument :  
BNA\_N  
ClientSampleId :  
PB113685BS

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Quant Time: Oct 18 16:25:09 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN101718.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 18 15:26:23 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.67 min Scan# 576

Delta R.T. 0.02 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

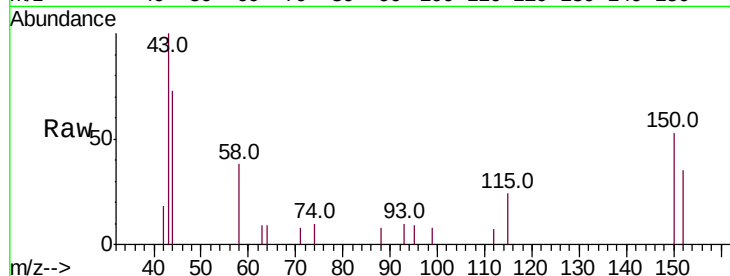
ClientSampleId :

PB113685BS

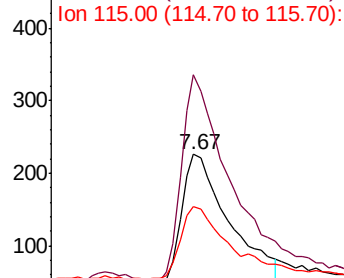
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 718   |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 150      | 148.7 | 126.2 | 189.4 |
| 115      | 68.6  | 49.8  | 74.6  |

Manual Integrations  
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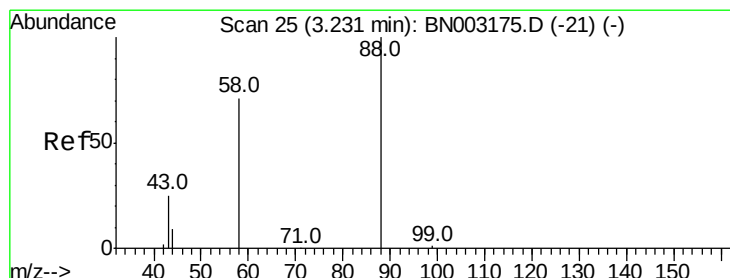
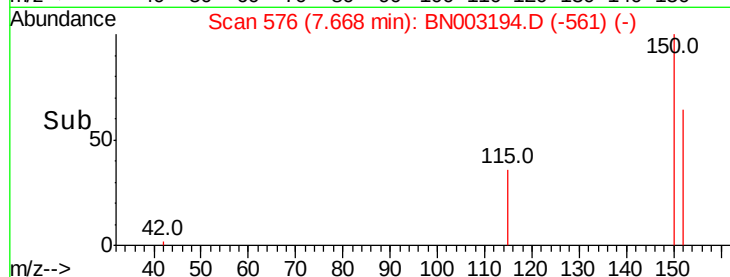
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Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



Time-->



#2

1,4-Dioxane

Concen: 0.413 ng

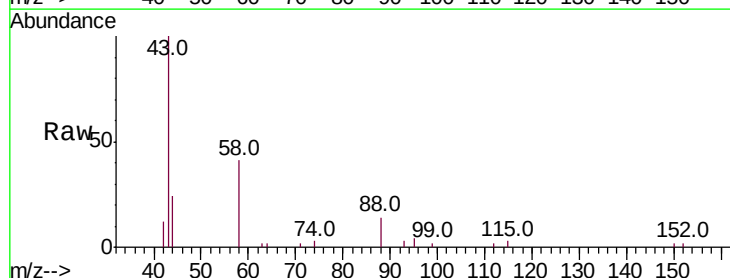
RT: 3.22 min Scan# 24

Delta R.T. -0.01 min

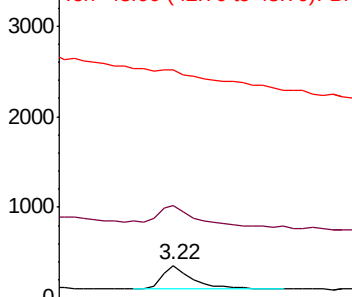
Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

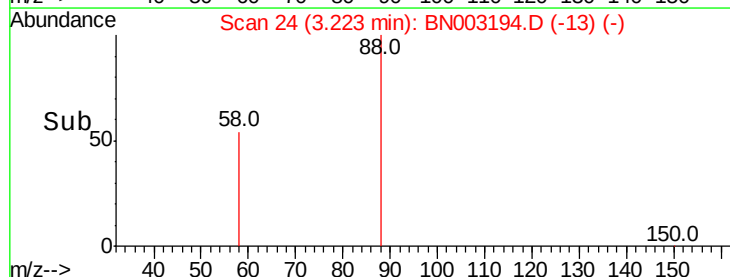
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 88    | Resp: | 430    |
| Ion      | Ratio | Lower | Upper  |
| 88       | 100   |       |        |
| 58       | 121.2 | 66.7  | 100.1# |
| 43       | 0.0   | 24.6  | 37.0#  |

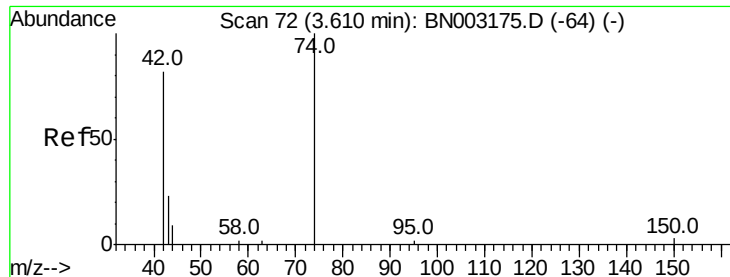


Abundance Ion 88.00 (87.70 to 88.70): BNC  
Ion 58.00 (57.70 to 58.70): BNC  
Ion 43.00 (42.70 to 43.70): BNC



Time-->





#3

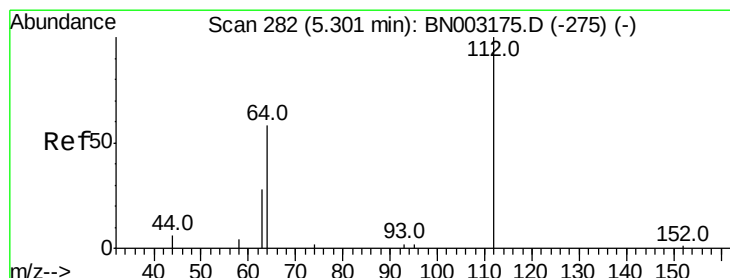
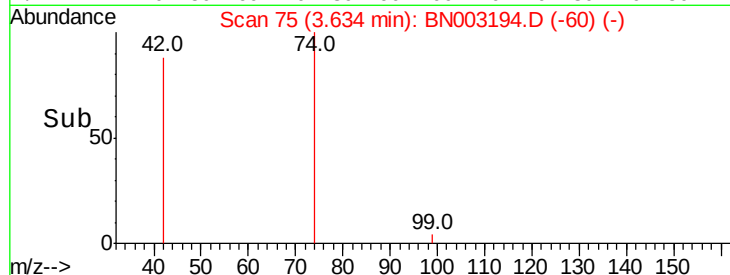
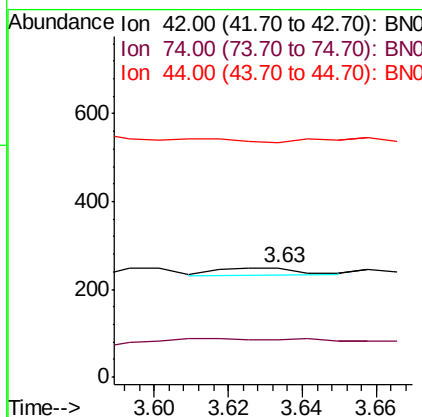
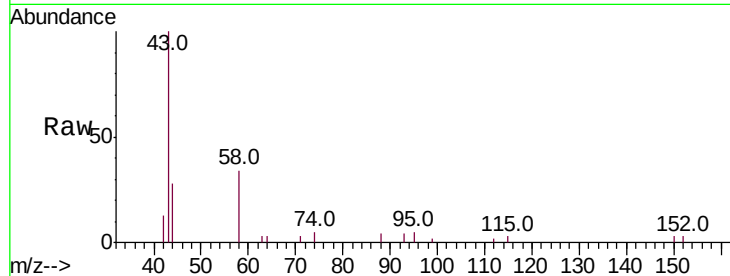
n-Nitrosodimethylamine  
 Concen: 0.191 ng  
 RT: 3.63 min Scan# 75  
 Delta R.T. 0.02 min  
 Lab File: BN003194.D  
 Acq: 17 Oct 2018 23:33

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB113685BS

| Tot Ion | 42    | Resp  | 24     |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 42      | 100   |       |        |
| 74      | 0.0   | 102.9 | 154.3# |
| 44      | 0.0   | 0.0   | 0.0    |

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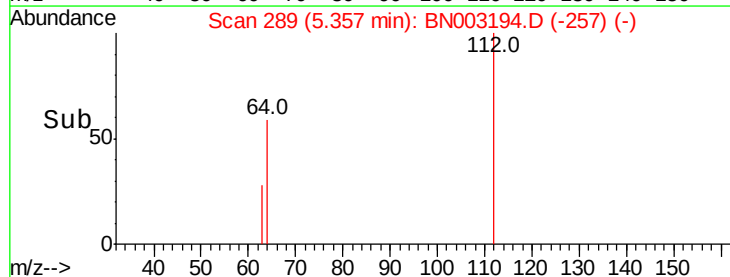
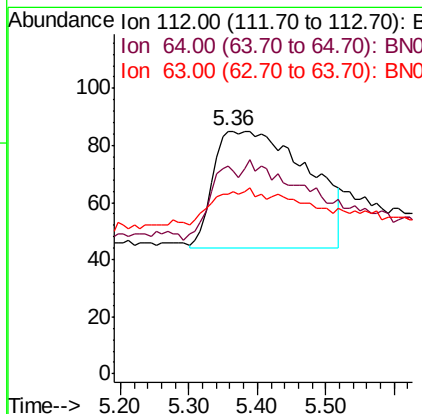
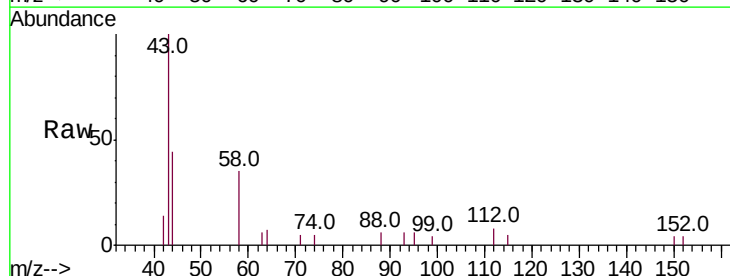
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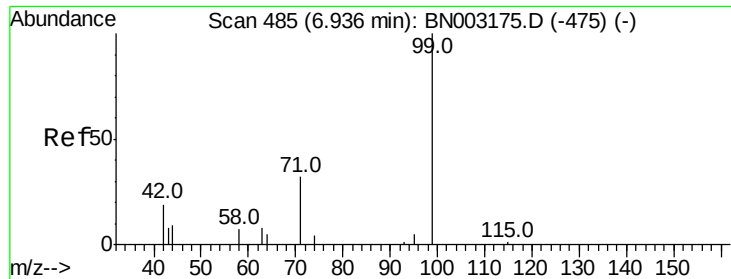


#4

2-Fluorophenol  
 Concen: 0.248 ng m  
 RT: 5.36 min Scan# 289  
 Delta R.T. 0.06 min  
 Lab File: BN003194.D  
 Acq: 17 Oct 2018 23:33

| Tgt Ion | 112   | Resp  | 393   |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 112     | 100   |       |       |
| 64      | 19.3  | 49.0  | 73.4# |
| 63      | 0.0   | 25.9  | 38.9# |





#5

Phenol-d6

Concen: 0.242 ng/ml

RT: 7.05 min Scan# 499

Delta R.T. 0.11 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

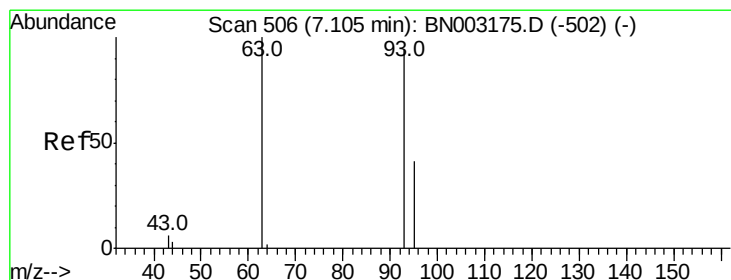
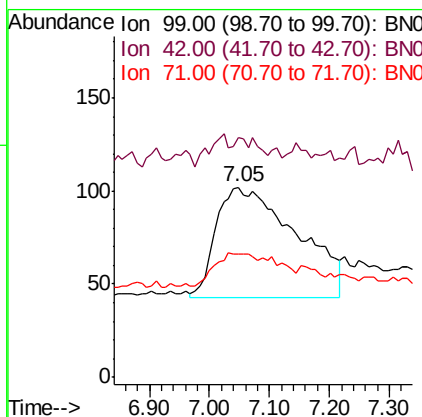
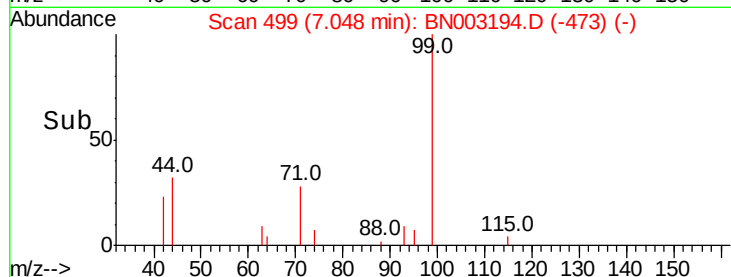
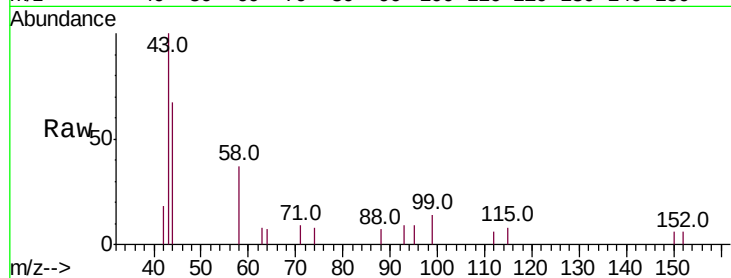
ClientSampleID :

PB113685BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 548   |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 1.1   | 15.4  | 23.2# |
| 71        | 0.0   | 26.0  | 39.0# |

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#6

bis(2-Chloroethyl)ether

Concen: 0.335 ng/ml

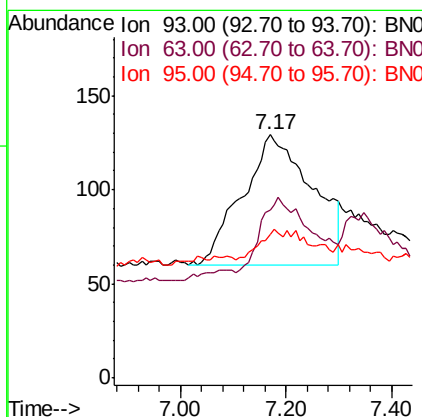
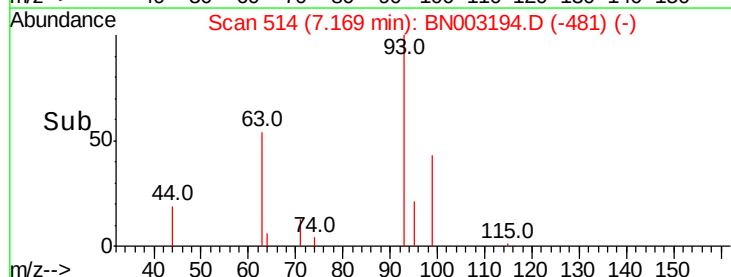
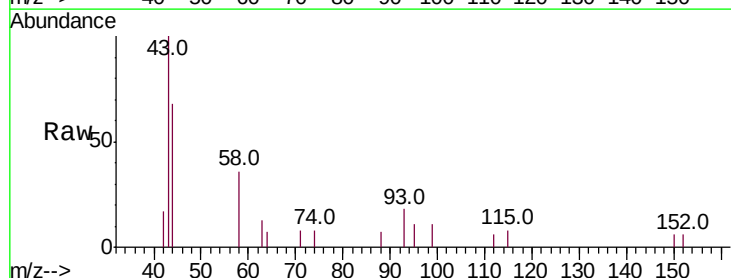
RT: 7.17 min Scan# 514

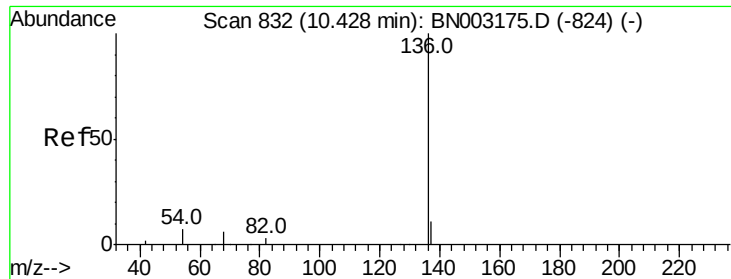
Delta R.T. 0.06 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 93    | Resp: | 635   |
| Ion Ratio | Lower | Upper |       |
| 93        | 100   |       |       |
| 63        | 41.4  | 54.2  | 81.4# |
| 95        | 7.1   | 24.9  | 37.3# |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.47 min Scan# 835

Delta R.T. 0.04 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

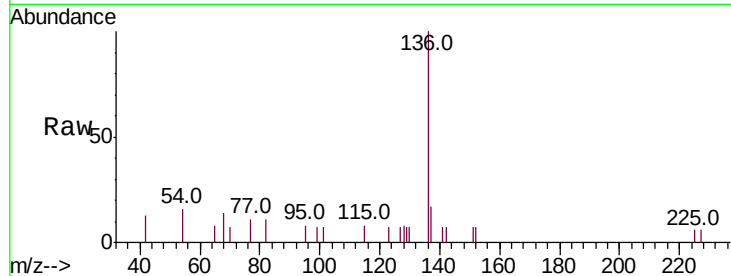
ClientSampled :

PB113685BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 16.9  | 9.4   | 14.0# |
| 54      | 15.7  | 7.4   | 11.0# |
| 68      | 14.2  | 5.8   | 8.6#  |

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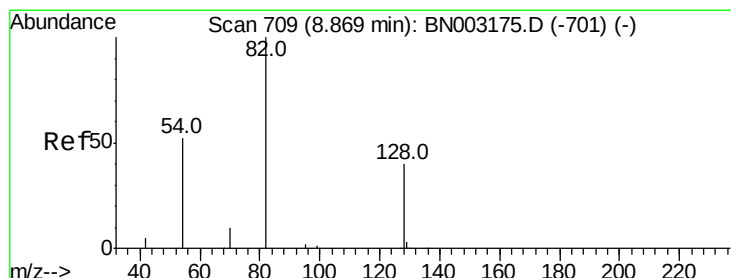
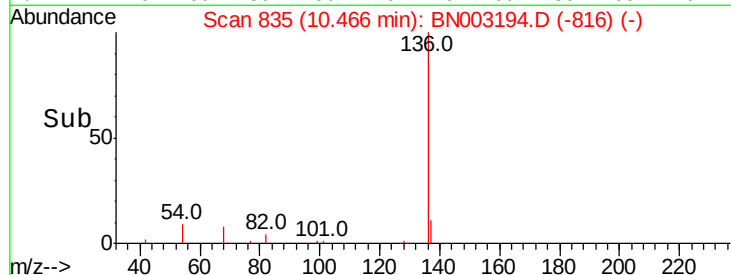
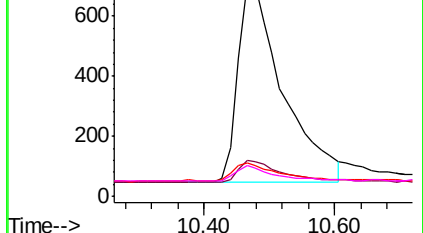


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.214 ng m

RT: 8.96 min Scan# 716

Delta R.T. 0.09 min

Lab File: BN003194.D

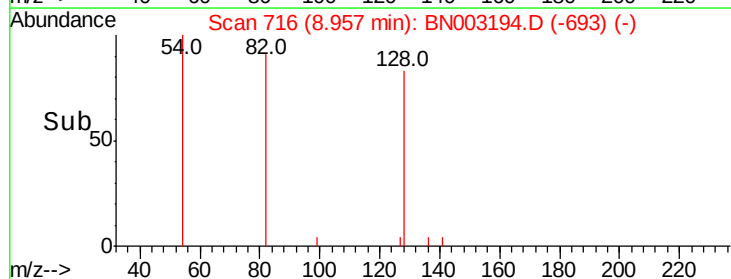
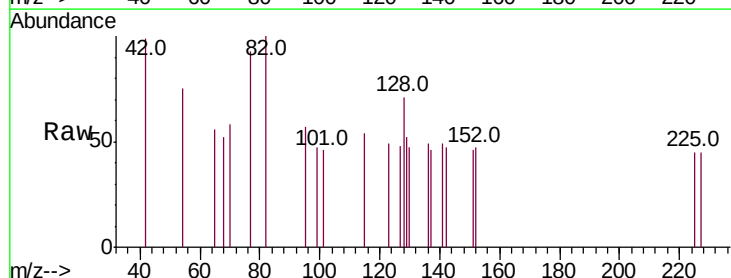
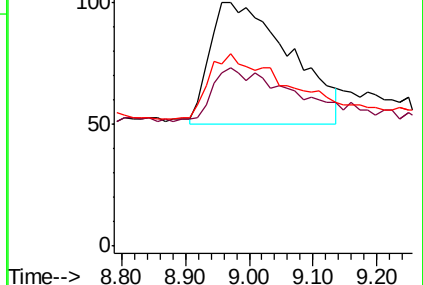
Acq: 17 Oct 2018 23:33

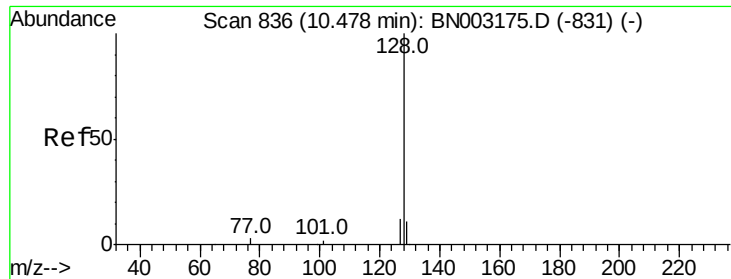
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 71.0  | 38.2  | 57.4# |
| 54      | 75.0  | 44.1  | 66.1# |

Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.241 ng

RT: 10.53 min Scan# 840

Delta R.T. 0.05 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

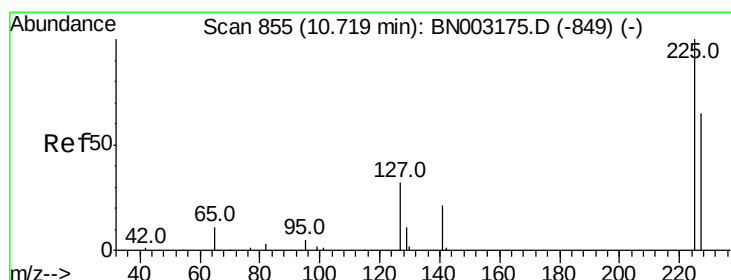
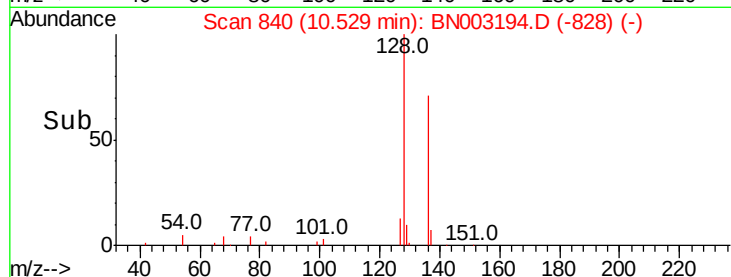
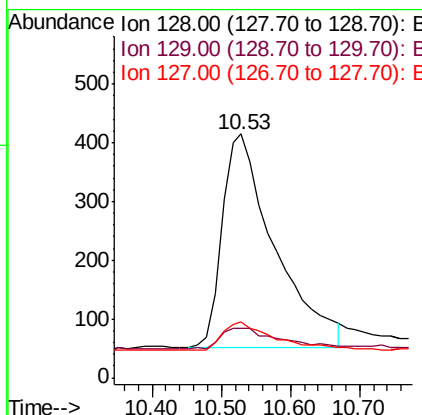
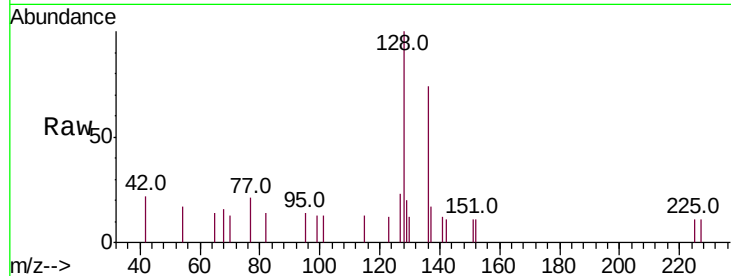
ClientSampleId :

PB113685BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 1909  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 20.5  | 9.8   | 14.6# |
| 127       | 22.9  | 11.4  | 17.2# |

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#10

Hexachlorobutadiene

Concen: 0.220 ng

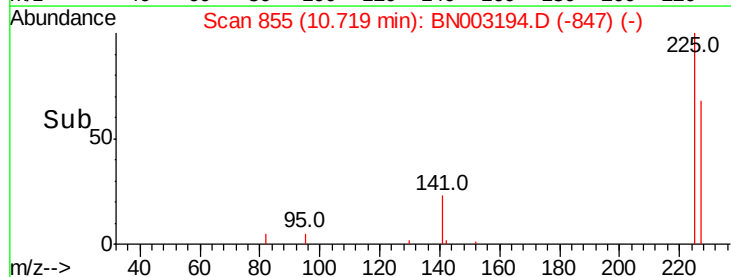
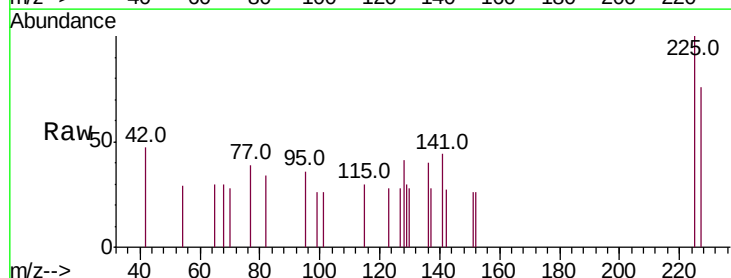
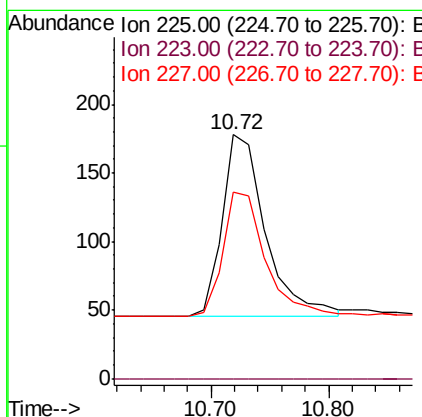
RT: 10.72 min Scan# 855

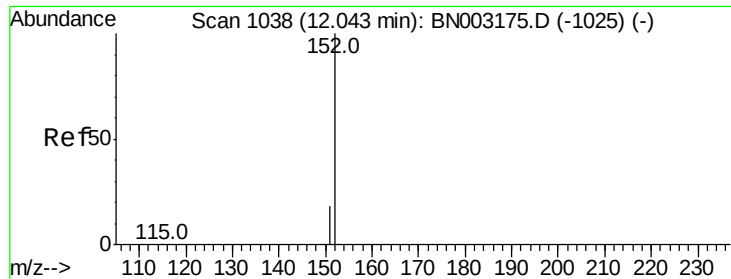
Delta R.T. -0.00 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 342  |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 0.0   | 0.0   | 0.0  |
| 227       | 67.3  | 51.8  | 77.8 |





#11

2-Methylnaphthalene-d10

Concen: 0.314 ng

RT: 12.10 min Scan# 1051

Delta R.T. 0.06 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

ClientSampleId :

PB113685BS

Tot Ion:152 Resp: 1691

Ion Ratio Lower Upper

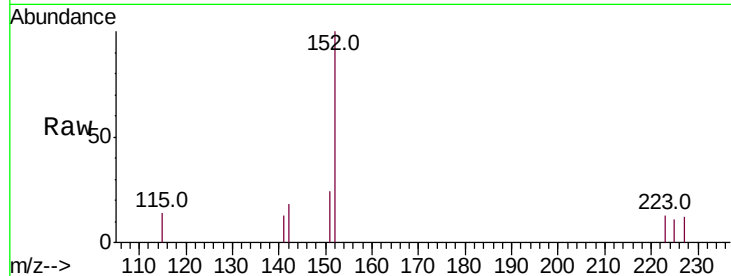
152 100

151 13.0 15.0 22.4#

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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.10

400

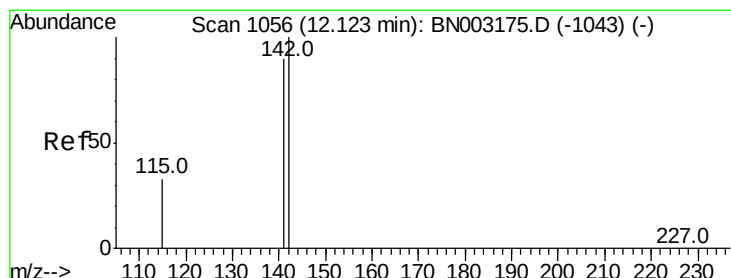
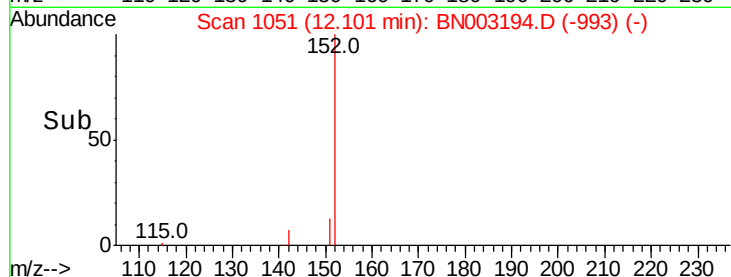
300

200

100

0

Time-->



#12

2-Methylnaphthalene

Concen: 0.235 ng

RT: 12.17 min Scan# 1067

Delta R.T. 0.05 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

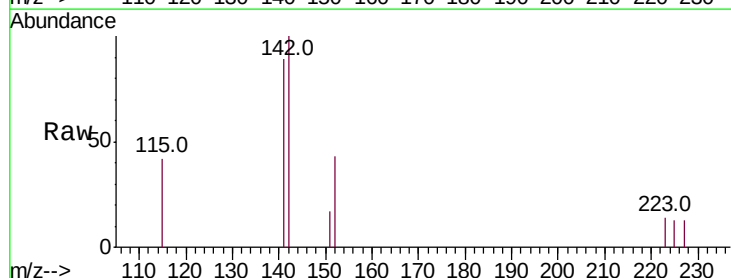
Tgt Ion:142 Resp: 1273

Ion Ratio Lower Upper

142 100

141 88.6 71.5 107.3

115 41.5 28.1 42.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

600

500

400

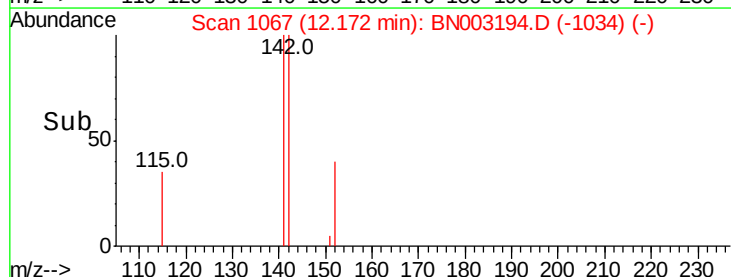
300

200

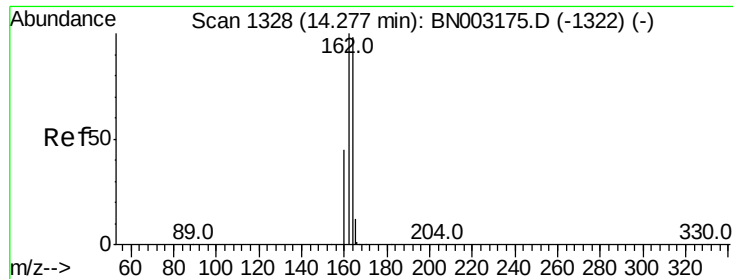
100

0

Time-->







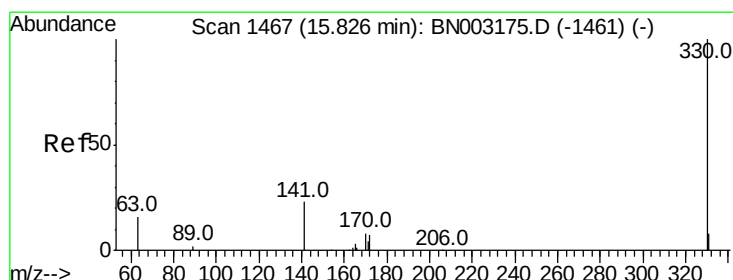
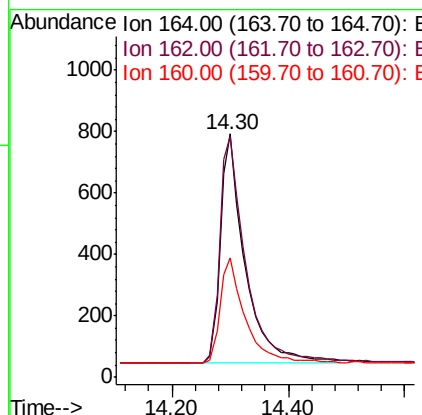
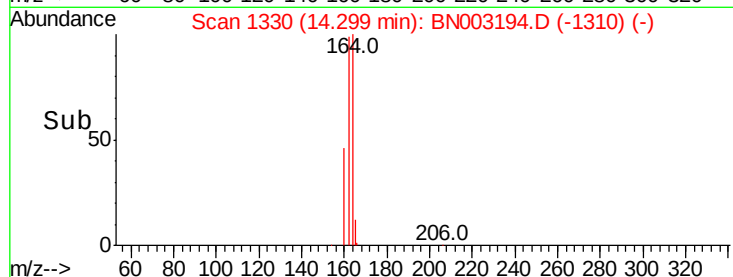
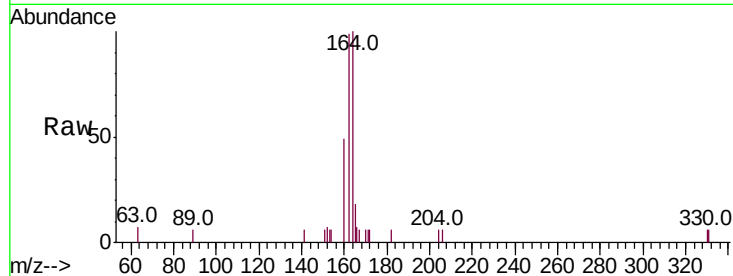
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.30 min Scan# 1330  
Delta R.T. 0.02 min  
Lab File: BN003194.D  
Acq: 17 Oct 2018 23:33

Instrument :  
BNA\_N  
ClientSampleId :  
PB113685BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.2  | 81.7  | 122.5 |
| 160     | 48.9  | 36.3  | 54.5  |

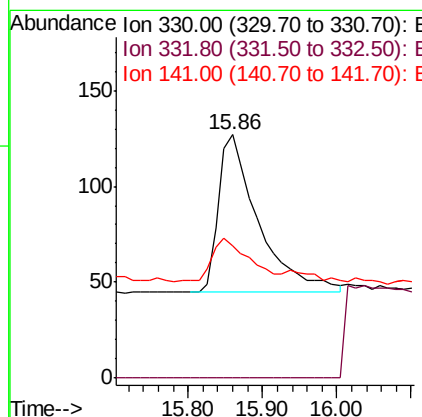
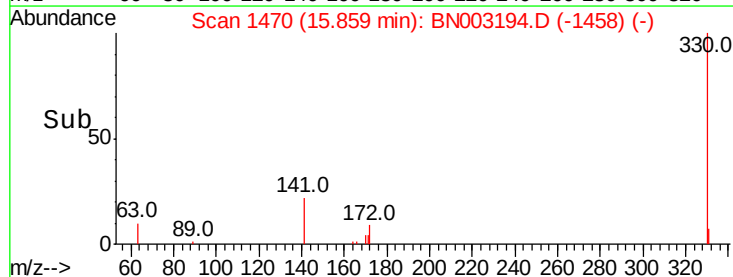
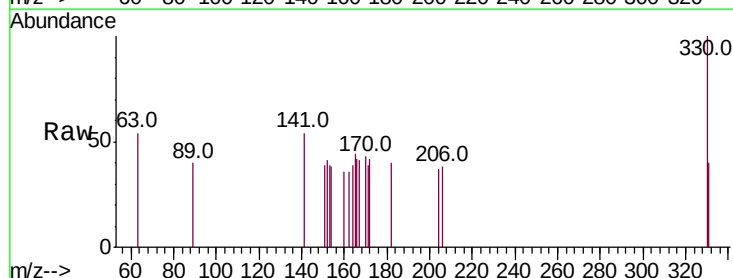
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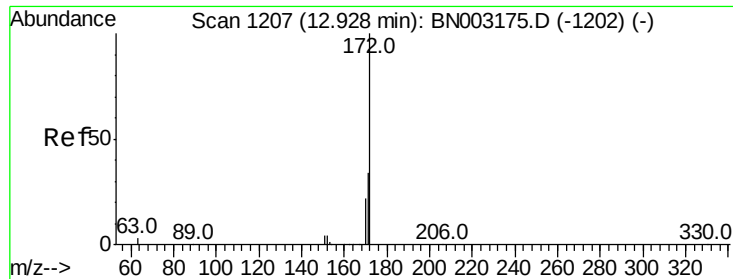
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#14  
2,4,6-Tribromophenol  
Concen: 0.219 ng  
RT: 15.86 min Scan# 1470  
Delta R.T. 0.03 min  
Lab File: BN003194.D  
Acq: 17 Oct 2018 23:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 0.0   | 0.0   | 0.0   |
| 141     | 26.9  | 22.6  | 33.8  |





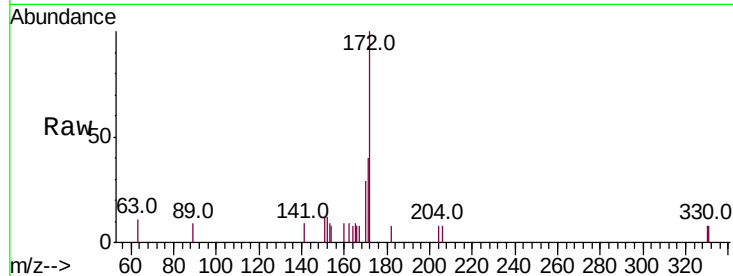
#15  
2-Fluorobiphenyl  
Concen: 0.220 ng  
RT: 12.96 min Scan# 1210  
Delta R.T. 0.03 min  
Lab File: BN003194.D  
Acq: 17 Oct 2018 23:33

Instrument :  
BNA\_N  
ClientSampleId :  
PB113685BS

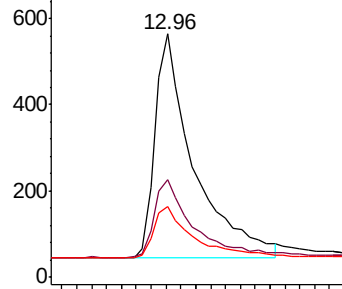
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 40.1  | 28.6  | 43.0  |
| 170     | 28.9  | 18.6  | 27.8  |

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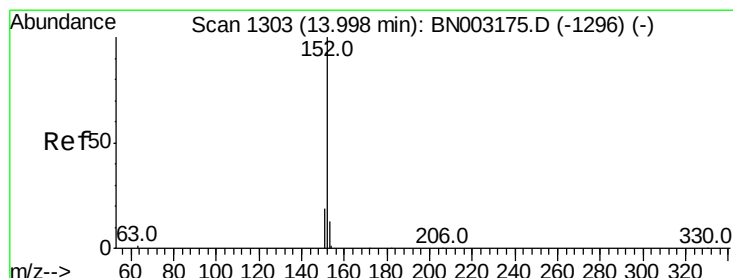
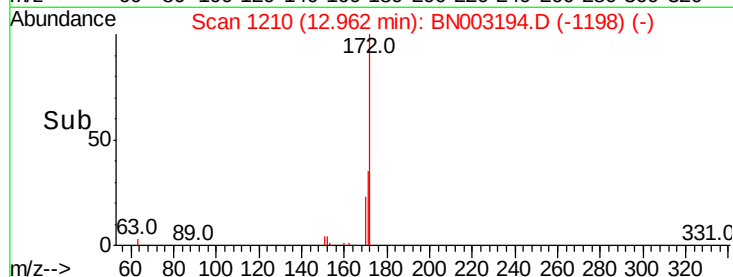
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Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

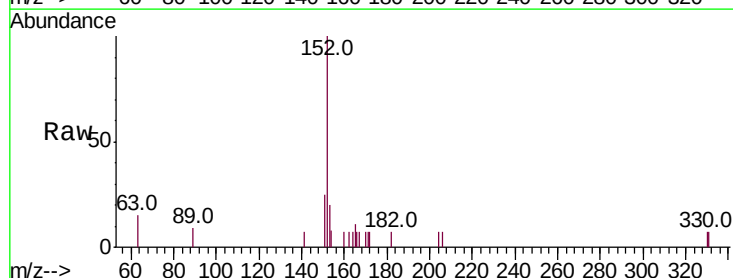


Time-->

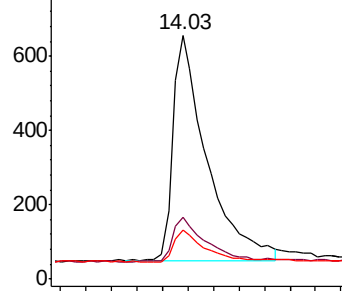


#16  
Acenaphthylene  
Concen: 0.228 ng  
RT: 14.03 min Scan# 1306  
Delta R.T. 0.03 min  
Lab File: BN003194.D  
Acq: 17 Oct 2018 23:33

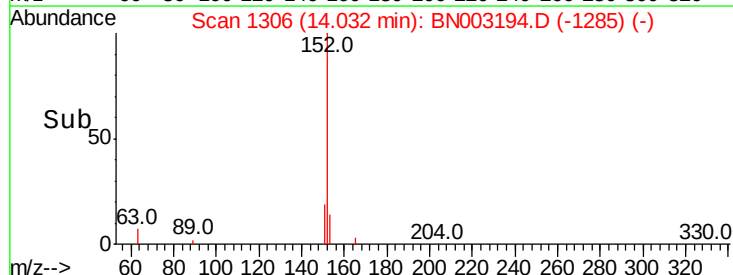
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.2  | 15.7  | 23.5  |
| 153     | 13.4  | 10.6  | 16.0  |

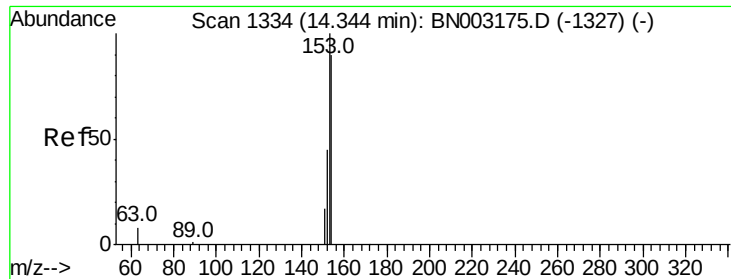


Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



Time-->





#17

Acenaphthene

Concen: 0.227 ng

RT: 14.37 min Scan# 1336

Delta R.T. 0.02 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

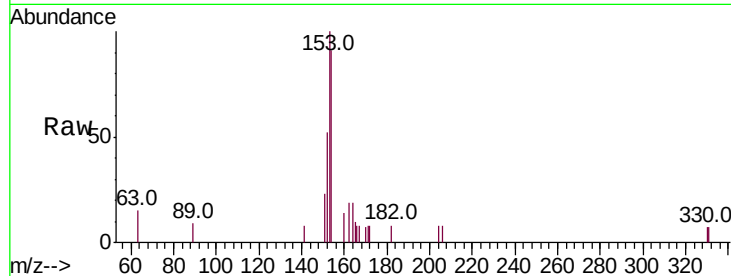
ClientSampleId :

PB113685BS

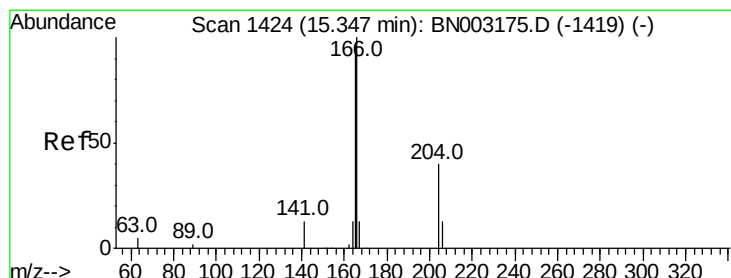
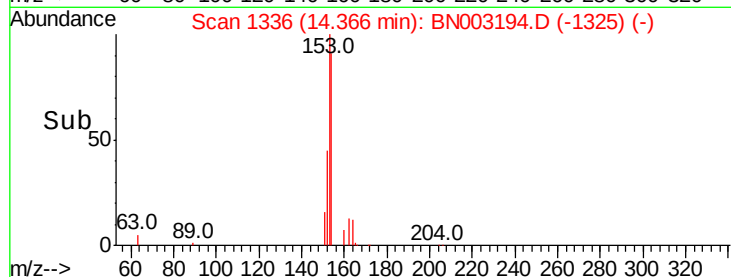
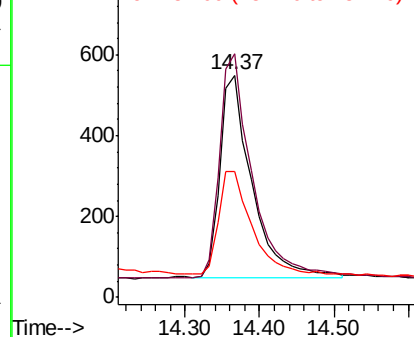
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 154   | Resp: | 1500  |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 113.5 | 91.0  | 136.4 |
| 152      | 52.1  | 43.8  | 65.6  |

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Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.241 ng

RT: 15.38 min Scan# 1427

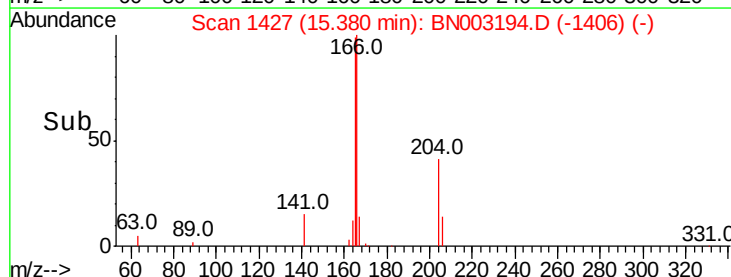
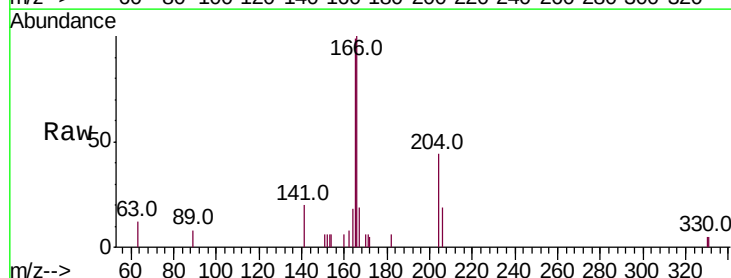
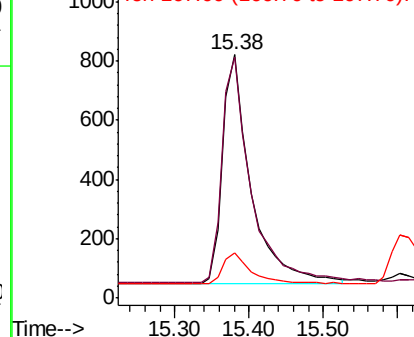
Delta R.T. 0.03 min

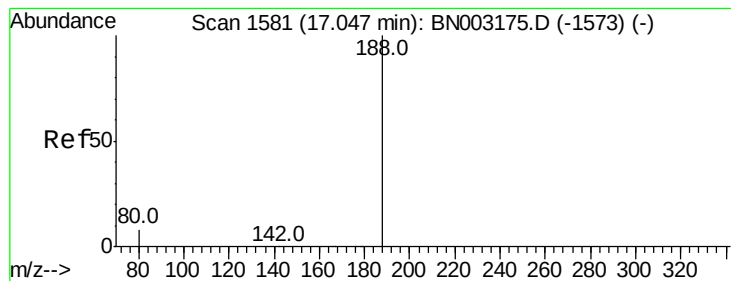
Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 2068  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 99.5  | 78.2  | 117.2 |
| 167      | 13.9  | 10.7  | 16.1  |

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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.06 min Scan# 1582

Delta R.T. 0.01 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

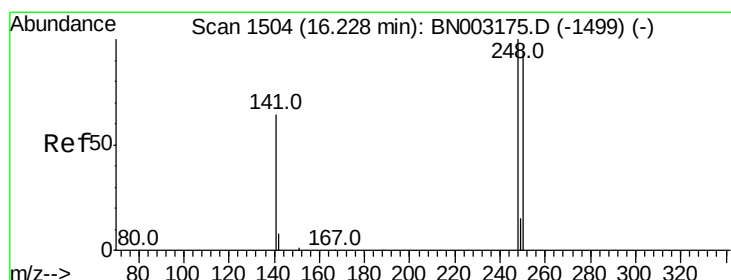
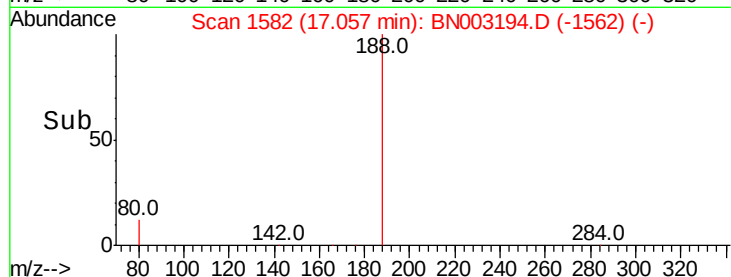
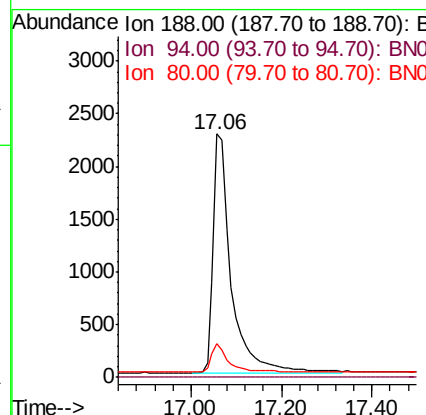
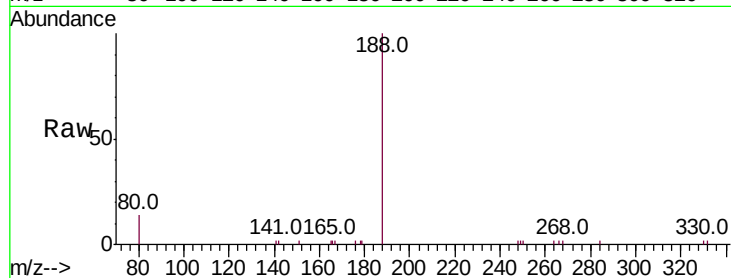
ClientSampleId :

PB113685BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 188   | Resp: | 6223  |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 13.9  | 6.7   | 10.1# |

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#20

4-Bromophenyl-phenylether

Concen: 0.203 ng m

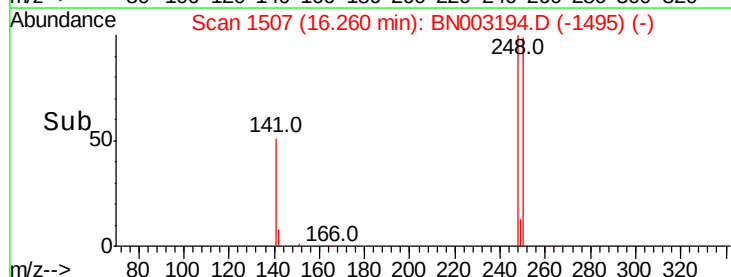
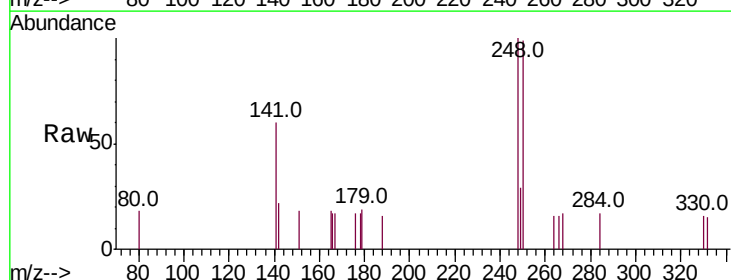
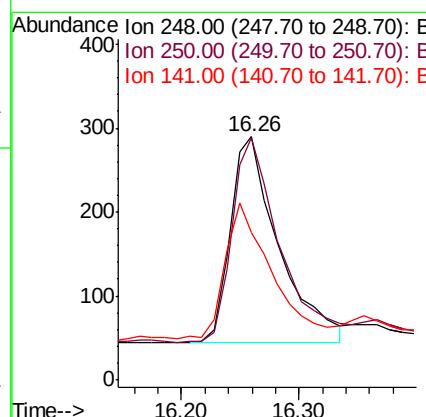
RT: 16.26 min Scan# 1507

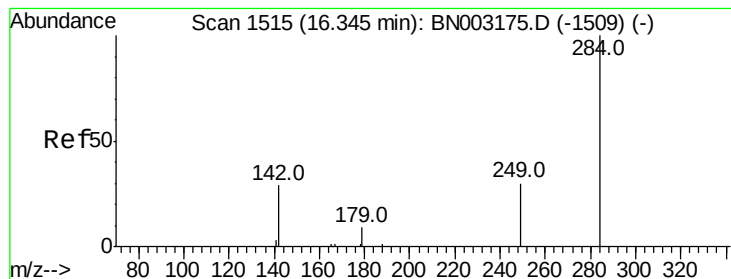
Delta R.T. 0.03 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 707   |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 99.3  | 78.9  | 118.3 |
| 141       | 60.3  | 48.5  | 72.7  |





#21

Hexachlorobenzene

Concen: 0.211 ng

RT: 16.37 min Scan# 1517

Delta R.T. 0.02 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

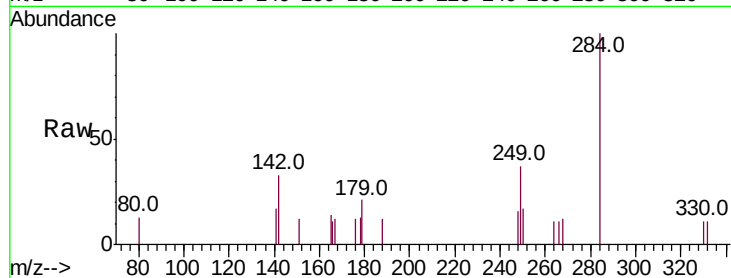
ClientSampled :

PB113685BS

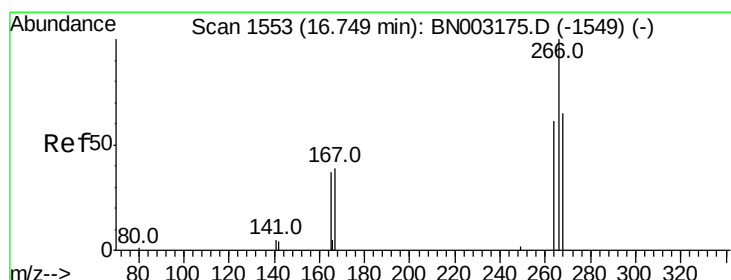
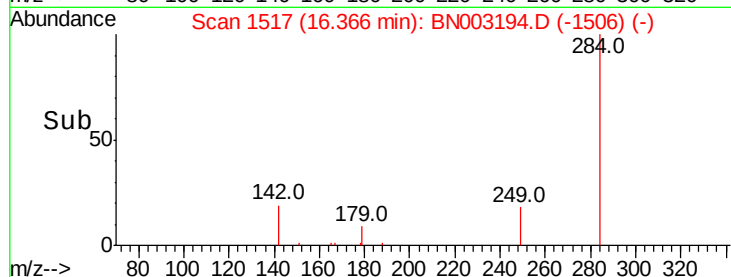
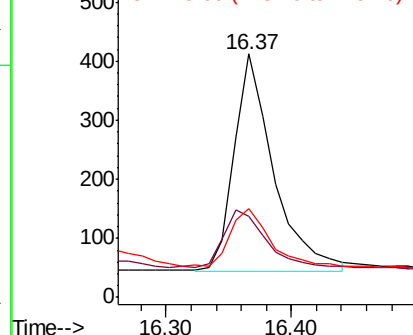
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 284   | Resp: | 809  |
| Ion Ratio | Lower | Upper |      |
| 284       | 100   |       |      |
| 142       | 26.9  | 24.6  | 37.0 |
| 249       | 25.3  | 22.3  | 33.5 |

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Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.338 ng

RT: 16.78 min Scan# 1556

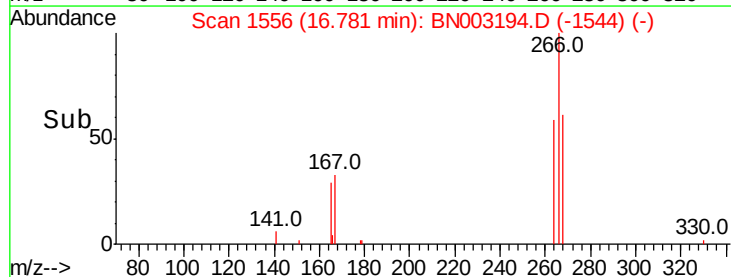
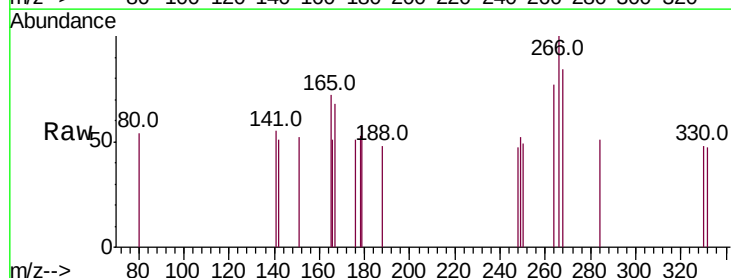
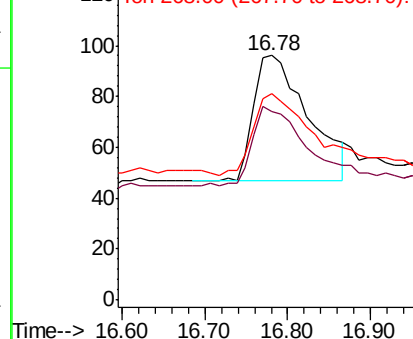
Delta R.T. 0.03 min

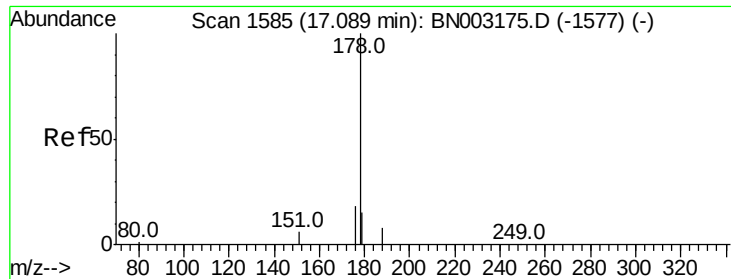
Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 223  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 77.1  | 55.0  | 82.4 |
| 268       | 84.4  | 60.6  | 91.0 |

Abundance Ion 266.00 (265.70 to 266.70): E  
Ion 264.00 (263.70 to 264.70): E  
Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.229 ng

RT: 17.11 min Scan# 1587

Delta R.T. 0.02 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

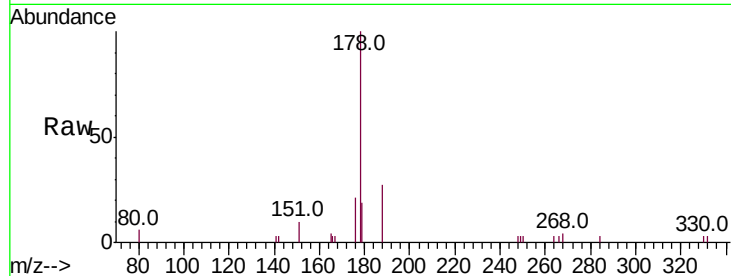
ClientSampleId :

PB113685BS

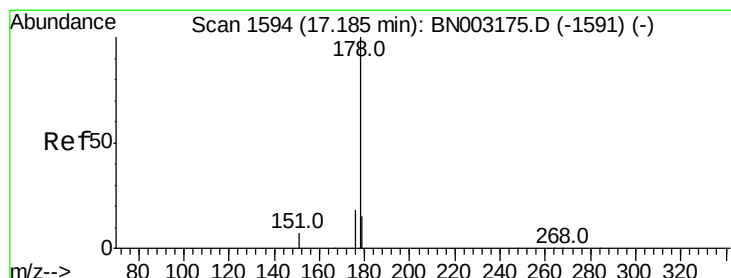
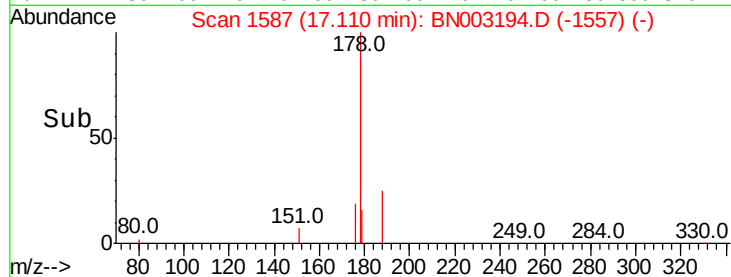
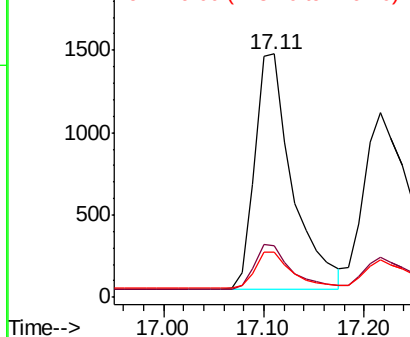
|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 3733      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 19.1  | 14.9 22.3 |
| 179         | 15.5  | 12.3 18.5 |

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Abundance Ion 178.00 (177.70 to 178.70): E  
2000 Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.226 ng

RT: 17.22 min Scan# 1597

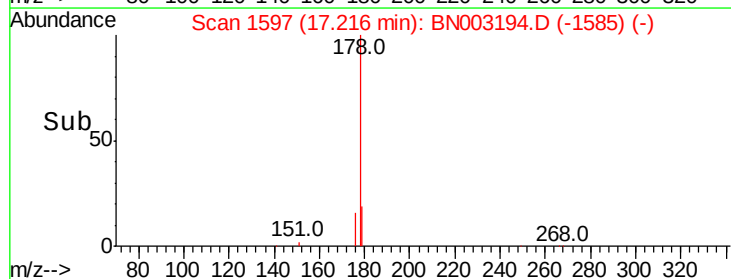
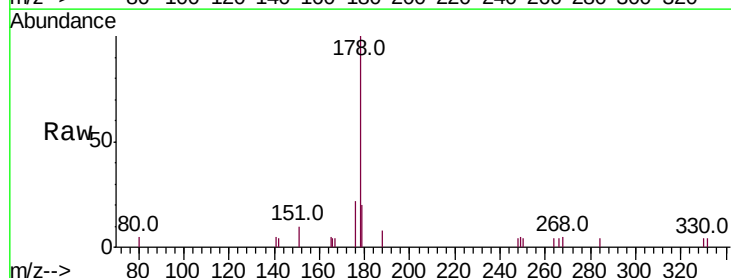
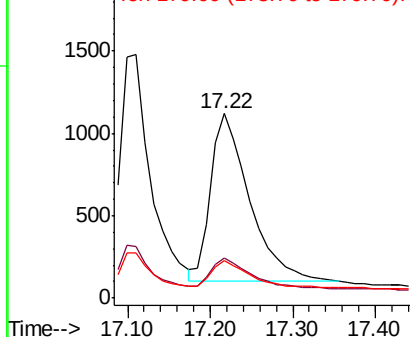
Delta R.T. 0.03 min

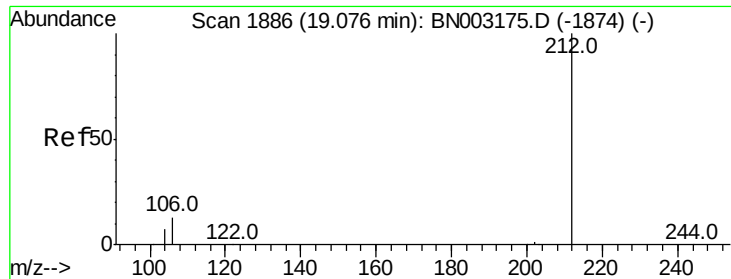
Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 3368      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.2  | 14.6 22.0 |
| 179         | 15.9  | 12.3 18.5 |

Abundance Ion 178.00 (177.70 to 178.70): E  
2000 Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.235 ng

RT: 19.10 min Scan# 1890

Delta R.T. 0.02 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

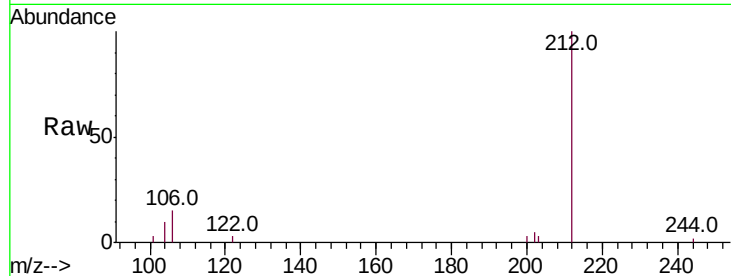
ClientSampleId :

PB113685BS

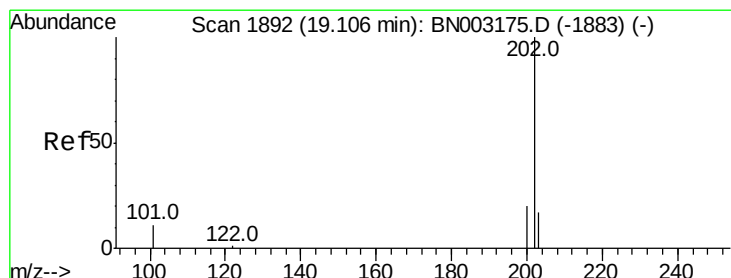
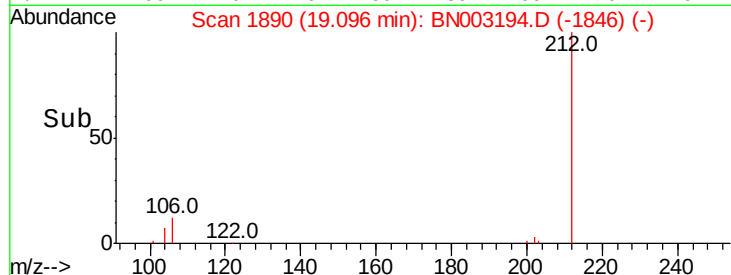
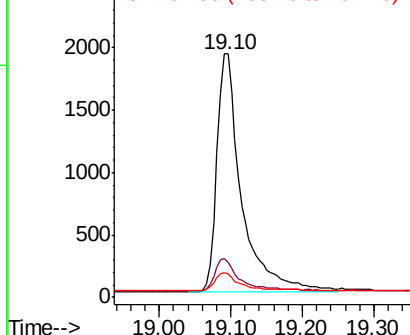
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 212   | Resp: | 4533 |
| Ion Ratio | Lower | Upper |      |
| 212       | 100   |       |      |
| 106       | 13.1  | 10.2  | 15.4 |
| 104       | 7.6   | 5.8   | 8.6  |

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Abundance Ion 212.00 (211.70 to 212.70): E  
Ion 106.00 (105.70 to 106.70): E  
Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.250 ng

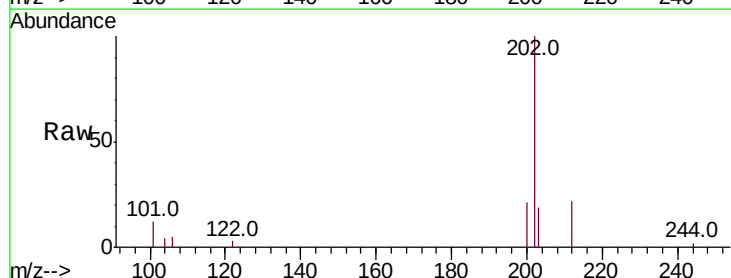
RT: 19.13 min Scan# 1896

Delta R.T. 0.02 min

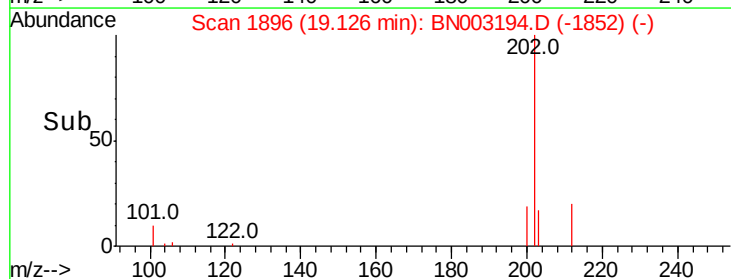
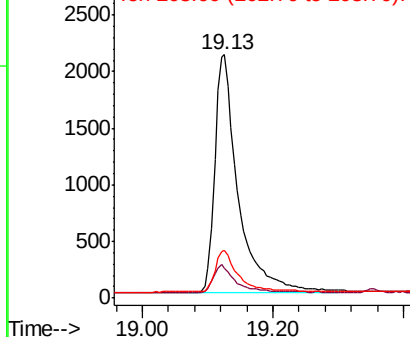
Lab File: BN003194.D

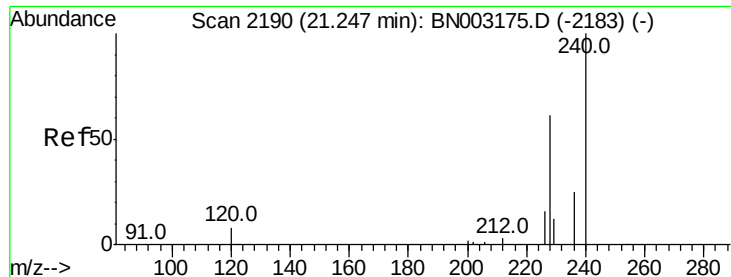
Acq: 17 Oct 2018 23:33

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 5227 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 10.8  | 8.6   | 12.8 |
| 203       | 16.6  | 13.7  | 20.5 |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





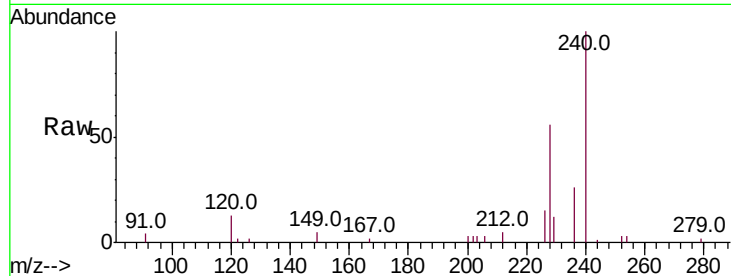
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.25 min Scan# 2190  
Delta R.T. -0.00 min  
Lab File: BN003194.D  
Acq: 17 Oct 2018 23:33

Instrument :  
BNA\_N  
ClientSampleId :  
PB113685BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 12.6  | 7.8   | 11.8# |
| 236     | 26.5  | 21.0  | 31.4  |

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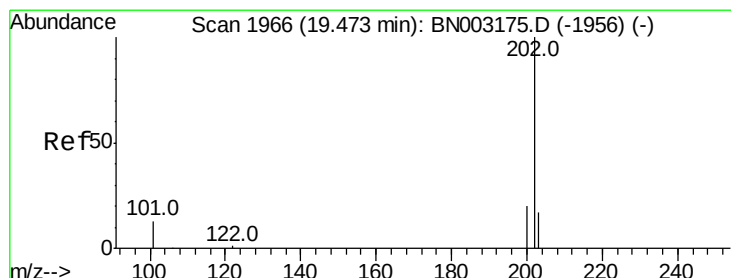
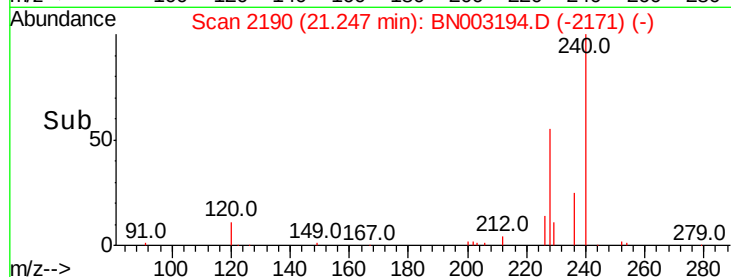
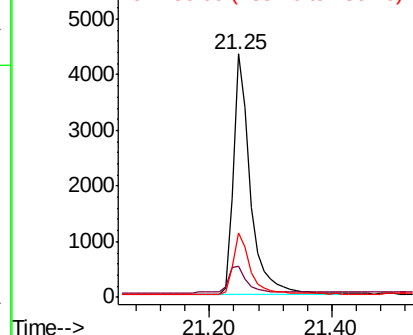


Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28  
Pyrene  
Concen: 0.227 ng  
RT: 19.49 min Scan# 1969  
Delta R.T. 0.01 min  
Lab File: BN003194.D  
Acq: 17 Oct 2018 23:33

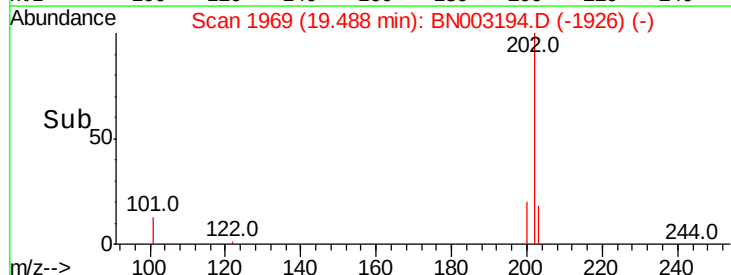
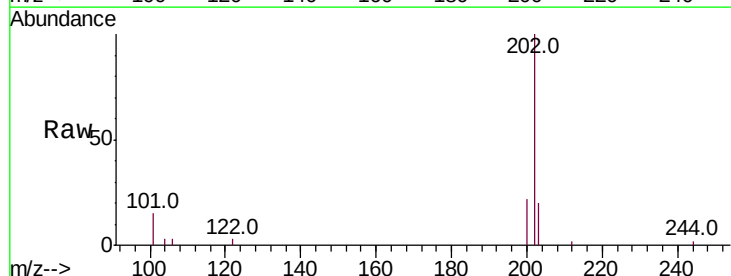
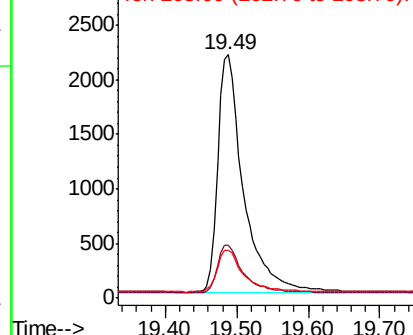
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.3  | 16.3  | 24.5  |
| 203     | 18.6  | 14.2  | 21.2  |

Abundance

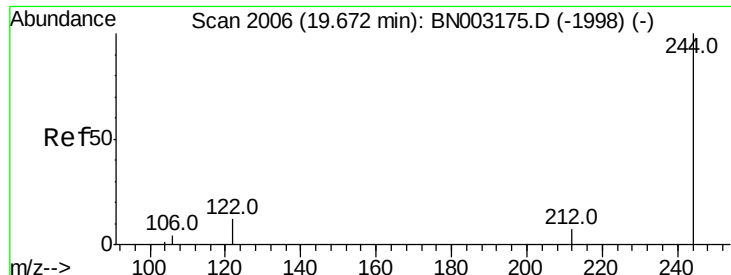
Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.181 ng

RT: 19.69 min Scan# 2009

Delta R.T. 0.01 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

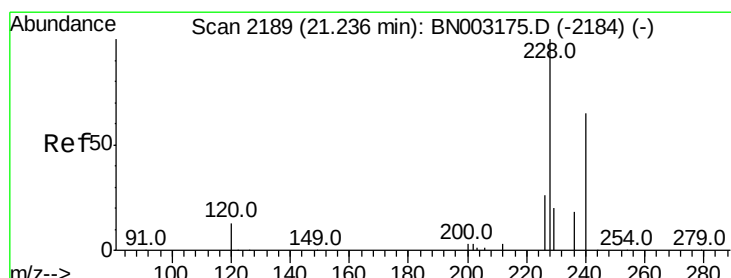
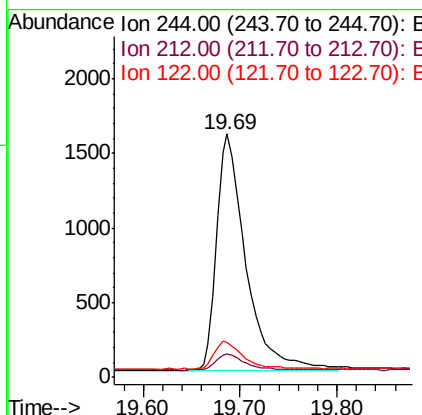
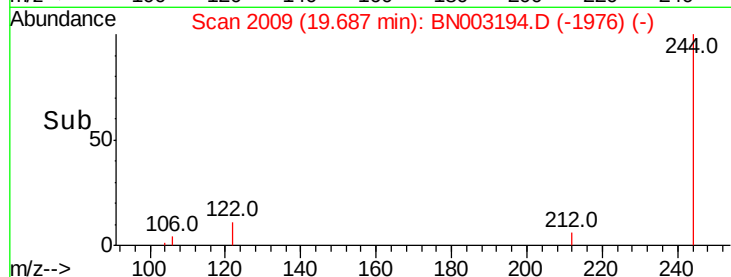
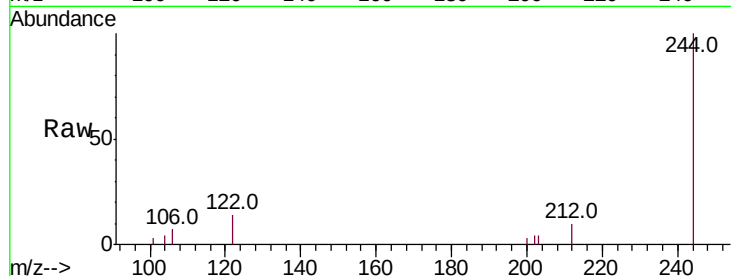
ClientSampleId :

PB113685BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.6   | 6.2   | 9.4#  |
| 122     | 14.2  | 9.1   | 13.7# |

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#30

Benzo(a)anthracene

Concen: 0.249 ng

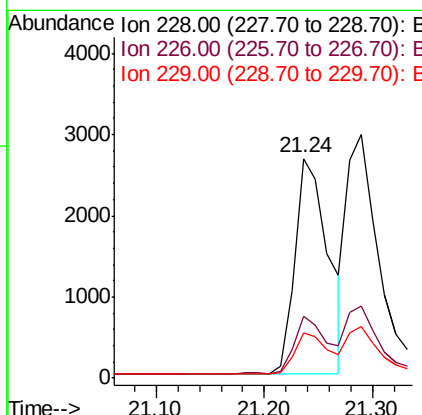
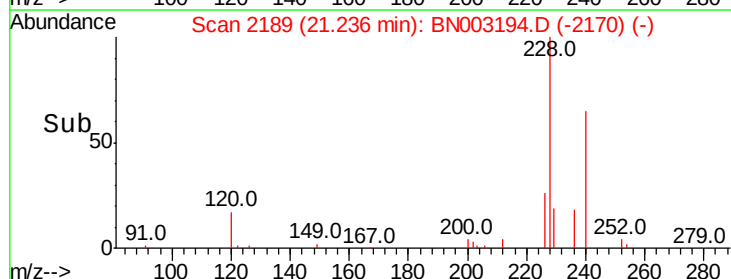
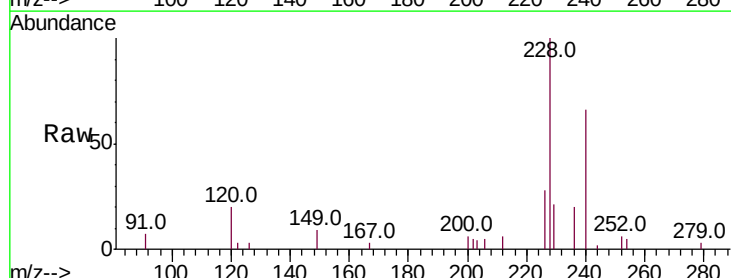
RT: 21.24 min Scan# 2189

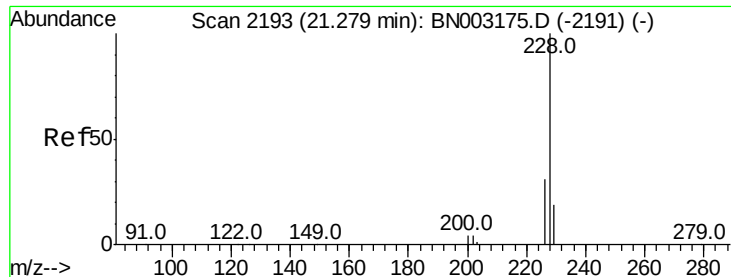
Delta R.T. -0.00 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.9  | 21.4  | 32.2  |
| 229     | 20.7  | 16.4  | 24.6  |





#31

Chrysene

Concen: 0.230 ng

RT: 21.29 min Scan# 2194

Delta R.T. 0.01 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

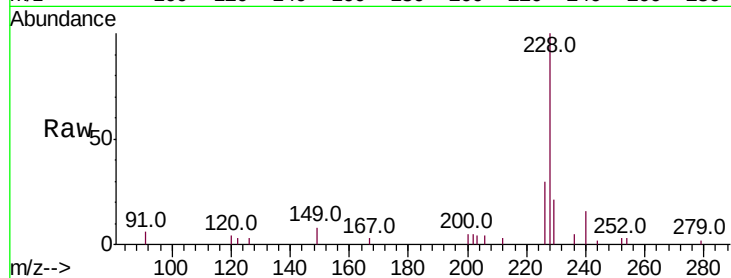
ClientSampleId :

PB113685BS

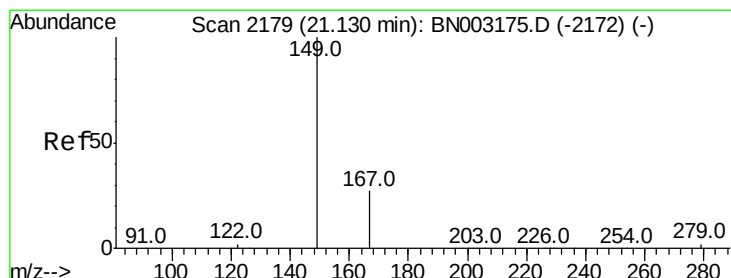
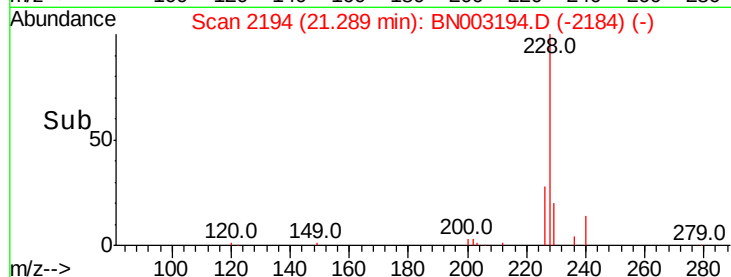
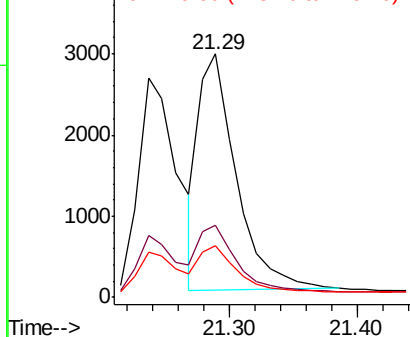
|             |       |       |
|-------------|-------|-------|
| Tot Ion:228 | Resp: | 5968  |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 226 29.5    | 23.1  | 34.7  |
| 229 21.3    | 15.9  | 23.9  |

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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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.223 ng

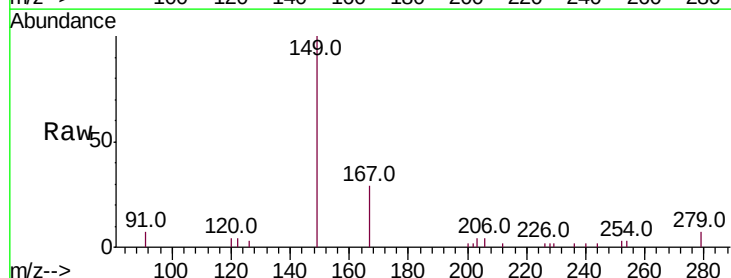
RT: 21.13 min Scan# 2179

Delta R.T. 0.00 min

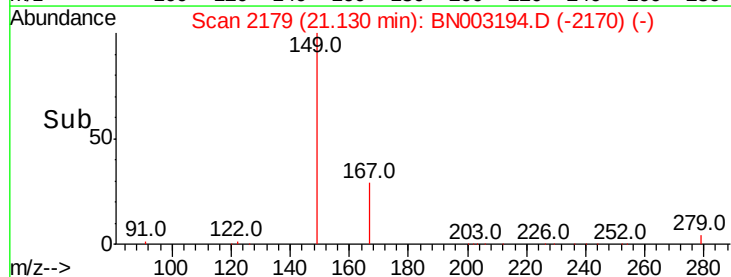
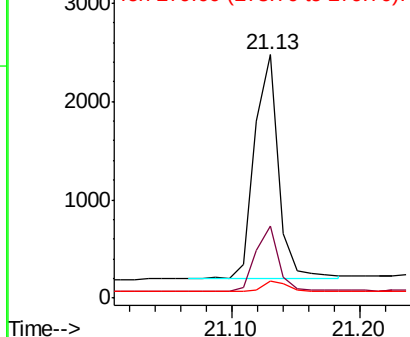
Lab File: BN003194.D

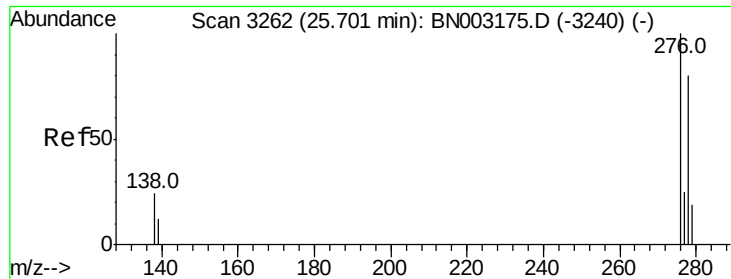
Acq: 17 Oct 2018 23:33

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:149 | Resp: | 3013  |
| Ion Ratio   | Lower | Upper |
| 149 100     |       |       |
| 167 28.2    | 22.2  | 33.4  |
| 279 4.9     | 3.7   | 5.5   |



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





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.242 ng

RT: 25.72 min Scan# 3268

Delta R.T. 0.02 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

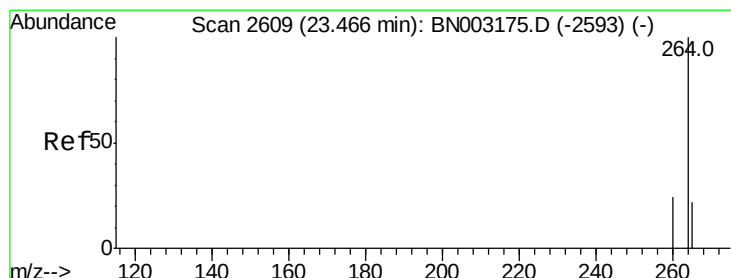
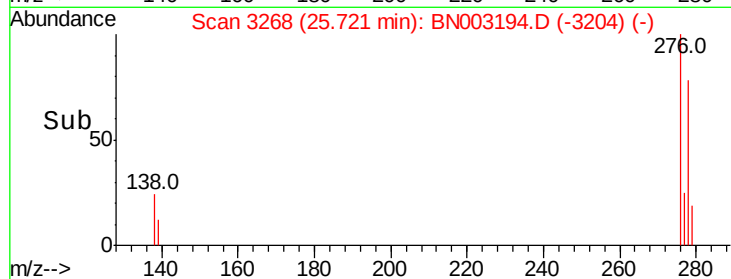
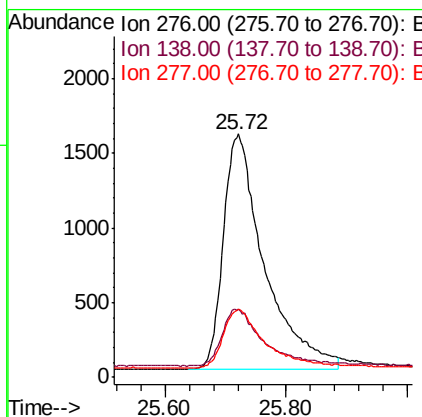
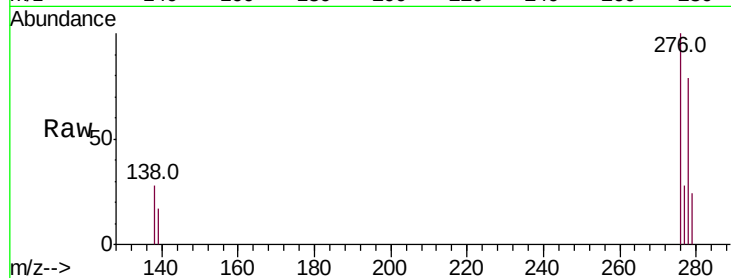
ClientSampleId :

PB113685BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 7436 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 23.7  | 18.2  | 27.4 |
| 277       | 25.1  | 20.2  | 30.4 |

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#34

Perylene-d12

Concen: 0.400 ng

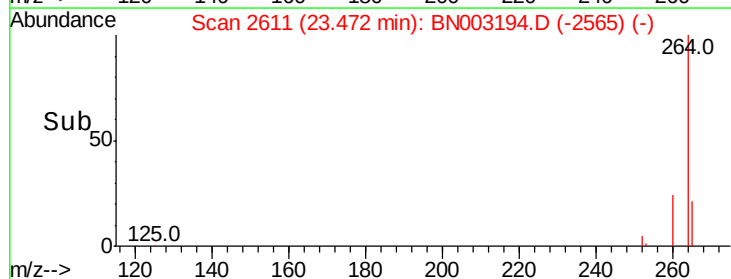
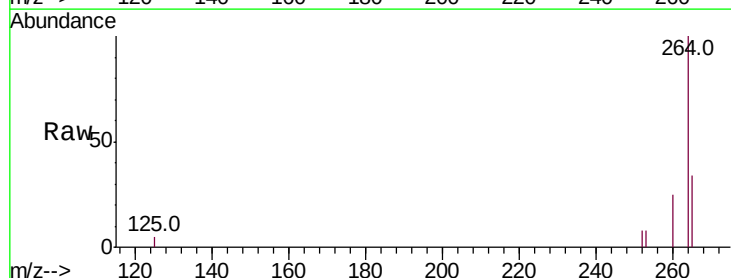
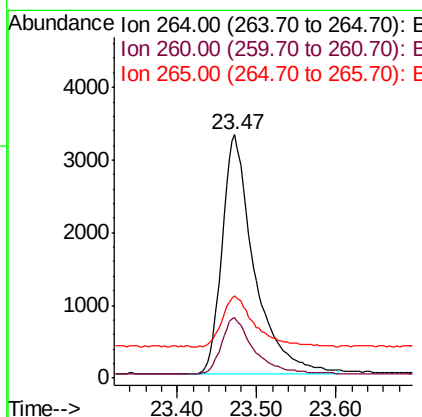
RT: 23.47 min Scan# 2611

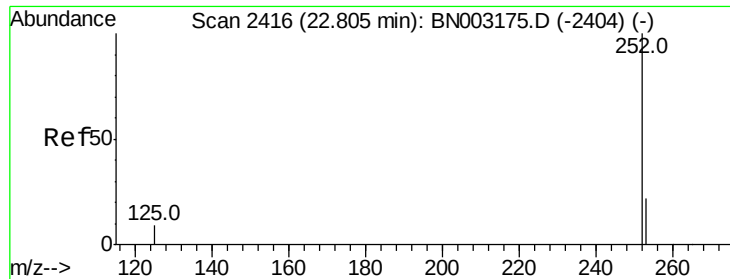
Delta R.T. 0.01 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 264   | Resp: | 9221 |
| Ion Ratio | Lower | Upper |      |
| 264       | 100   |       |      |
| 260       | 24.8  | 19.7  | 29.5 |
| 265       | 33.7  | 27.6  | 41.4 |





#35

Benzo(b)fluoranthene

Concen: 0.245 ng

RT: 22.81 min Scan# 2418

Delta R.T. 0.01 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

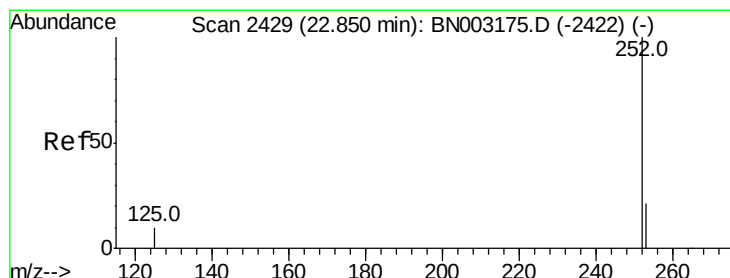
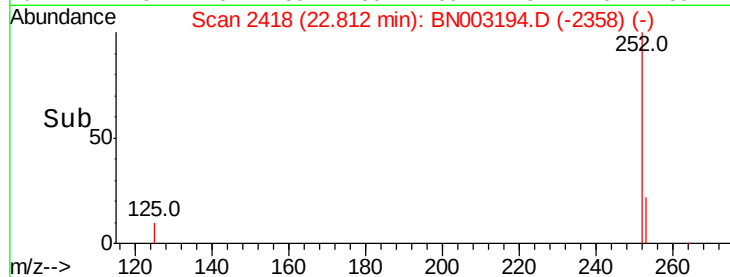
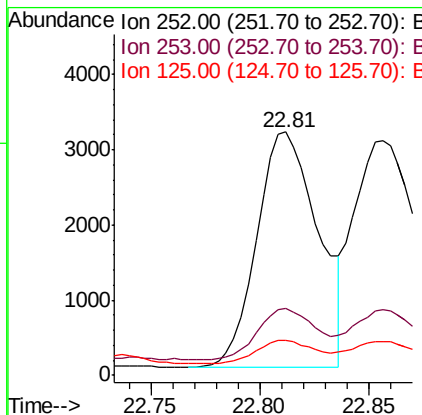
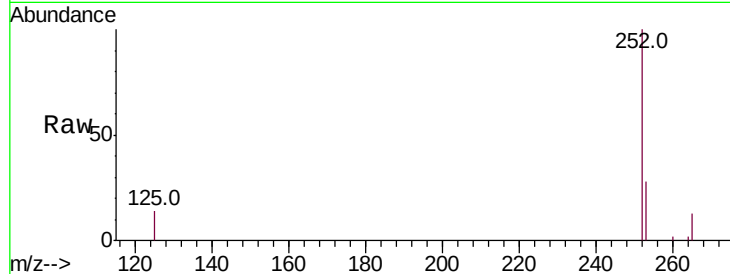
ClientSampleId :

PB113685BS

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:252 | Resp: | 6112      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 27.7  | 20.8 31.2 |
| 125         | 14.2  | 9.6 14.4  |

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#36

Benzo(k)fluoranthene

Concen: 0.243 ng

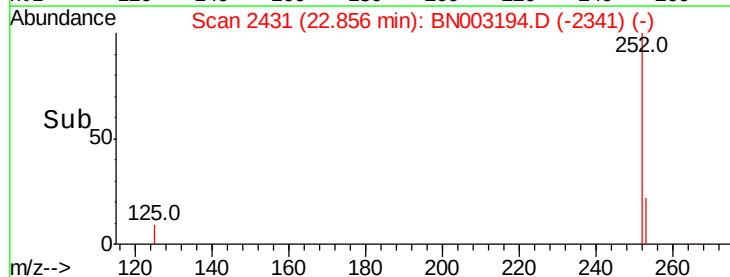
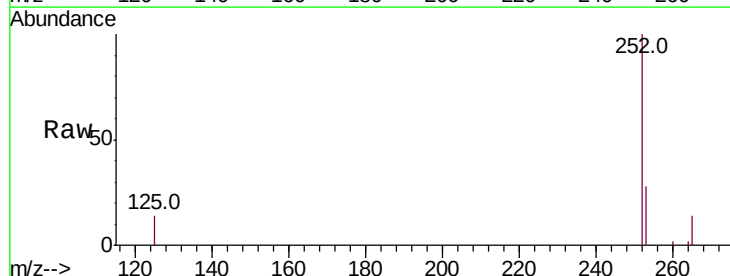
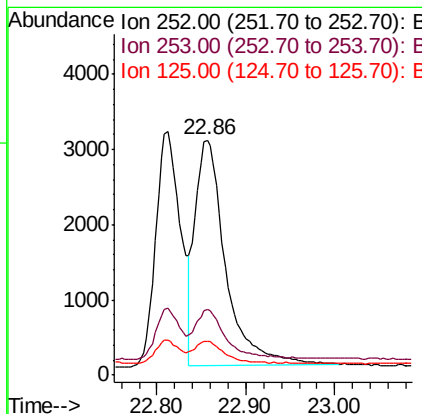
RT: 22.86 min Scan# 2431

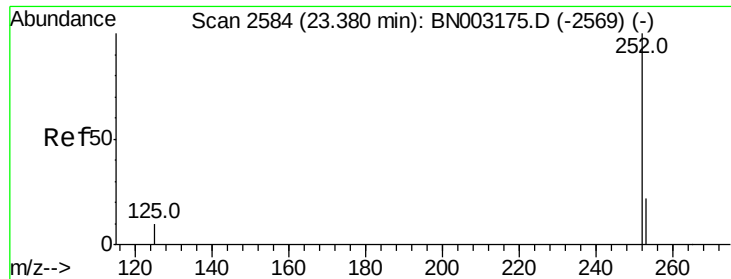
Delta R.T. 0.01 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 7136      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 28.2  | 20.5 30.7 |
| 125         | 14.1  | 9.4 14.0# |





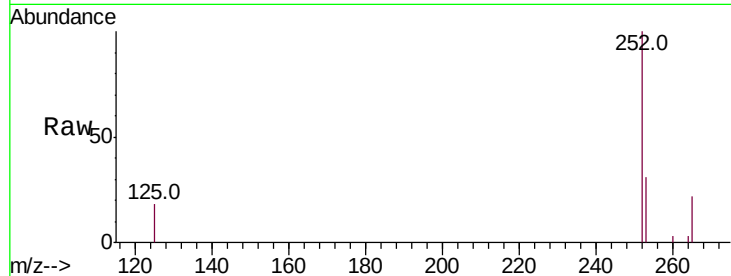
#37  
Benzo(a)pyrene  
Concen: 0.250 ng  
RT: 23.39 min Scan# 2588  
Delta R.T. 0.01 min  
Lab File: BN003194.D  
Acq: 17 Oct 2018 23:33

Instrument :  
BNA\_N  
ClientSampleId :  
PB113685BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.6  | 22.4  | 33.6  |
| 125     | 18.1  | 11.4  | 17.0  |

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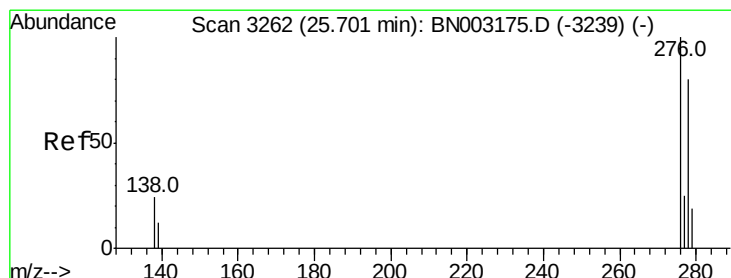
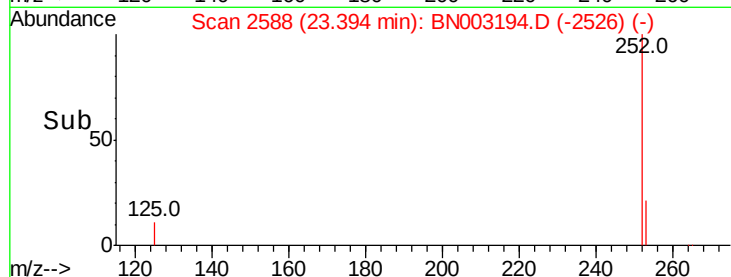
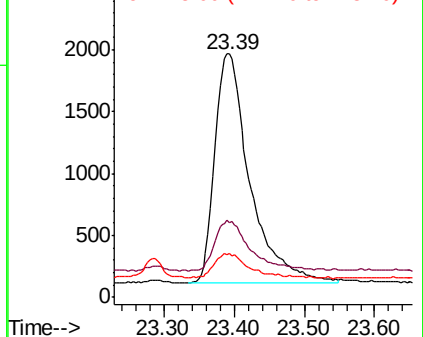


Abundance

Ion 252.00 (251.70 to 252.70): E

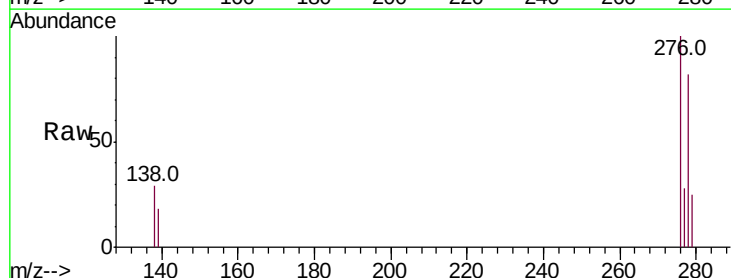
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38  
Dibenzo(a,h)anthracene  
Concen: 0.235 ng  
RT: 25.71 min Scan# 3266  
Delta R.T. 0.01 min  
Lab File: BN003194.D  
Acq: 17 Oct 2018 23:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 22.2  | 14.6  | 21.8  |
| 279     | 30.4  | 23.1  | 34.7  |

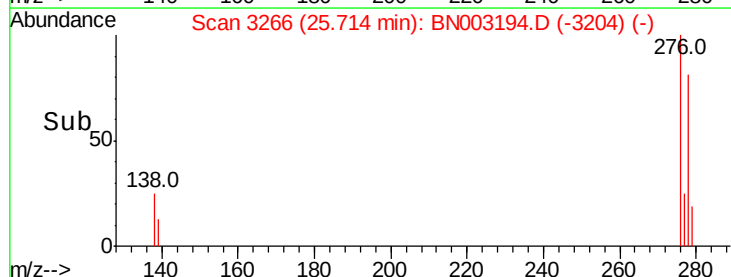
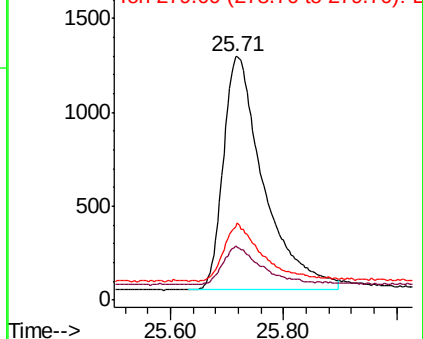


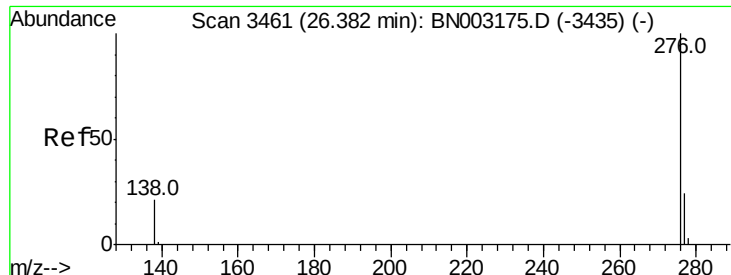
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.242 ng

RT: 26.39 min Scan# 3464

Delta R.T. 0.01 min

Lab File: BN003194.D

Acq: 17 Oct 2018 23:33

Instrument :

BNA\_N

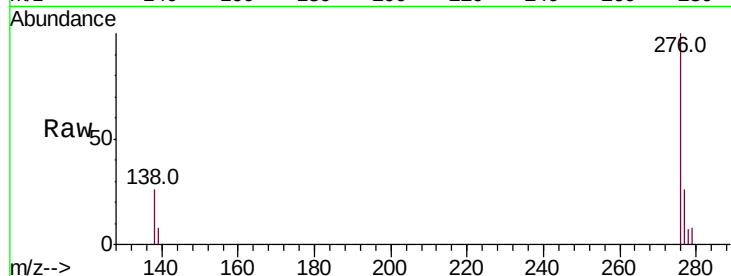
ClientSampleId :

PB113685BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 6416 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 277       | 26.5  | 21.0  | 31.4 |
| 138       | 25.7  | 18.1  | 27.1 |

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

