

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101718\  
 Data File : BN003182.D  
 Acq On : 17 Oct 2018 16:32  
 Operator : MJ/SJ  
 Sample : PB113776BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB113776BS

Manual Integrations  
 APPROVED

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 10/18/2018 4:40:52 PM

Quant Time: Oct 18 15:54:42 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 | 7.68  | 152  | 664      | 0.40 | ng    | 0.03     |
| 7) Naphthalene-d8         | 10.48 | 136  | 2956     | 0.40 | ng    | 0.05     |
| 13) Acenaphthene-d10      | 14.30 | 164  | 2021     | 0.40 | ng    | 0.02     |
| 19) Phenanthrene-d10      | 17.07 | 188  | 5591     | 0.40 | ng    | 0.02     |
| 27) Chrysene-d12          | 21.26 | 240  | 7655     | 0.40 | ng    | 0.01     |
| 34) Perylene-d12          | 23.48 | 264  | 8525     | 0.40 | ng    | 0.01     |

|                             |       |     |      |      |    |      |
|-----------------------------|-------|-----|------|------|----|------|
| System Monitoring Compounds |       |     |      |      |    |      |
| 4) 2-Fluorophenol           | 5.37  | 112 | 427m | 0.29 | ng | 0.06 |
| 5) Phenol-d6                | 7.05  | 99  | 476m | 0.23 | ng | 0.11 |
| 8) Nitrobenzene-d5          | 8.98  | 82  | 389m | 0.20 | ng | 0.12 |
| 11) 2-Methylnaphthalene-d10 | 12.12 | 152 | 1524 | 0.30 | ng | 0.08 |
| 14) 2,4,6-Tribromophenol    | 15.87 | 330 | 278  | 0.22 | ng | 0.04 |
| 15) 2-Fluorobiphenyl        | 12.97 | 172 | 1737 | 0.22 | ng | 0.04 |
| 25) Fluoranthene-d10        | 19.10 | 212 | 4097 | 0.24 | ng | 0.02 |
| 29) Terphenyl-d14           | 19.70 | 244 | 3069 | 0.19 | ng | 0.02 |

|                                |       |     |      |        |    |      |
|--------------------------------|-------|-----|------|--------|----|------|
| Target Compounds               |       |     |      | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.22  | 88  | 428  | 0.450  | ng | # 50 |
| 3) n-Nitrosodimethylamine      | 3.59  | 42  | 70   | 0.281  | ng | # 1  |
| 6) bis(2-Chloroethyl)ether     | 7.19  | 93  | 553  | 0.315  | ng | # 31 |
| 9) Naphthalene                 | 10.54 | 128 | 1758 | 0.239  | ng | # 74 |
| 10) Hexachlorobutadiene        | 10.73 | 225 | 313  | 0.217  | ng | # 97 |
| 12) 2-Methylnaphthalene        | 12.19 | 142 | 1147 | 0.228  | ng | 92   |
| 16) Acenaphthylene             | 14.04 | 152 | 2064 | 0.225  | ng | 99   |
| 17) Acenaphthene               | 14.37 | 154 | 1400 | 0.229  | ng | 98   |
| 18) Fluorene                   | 15.38 | 166 | 1889 | 0.237  | ng | 100  |
| 20) 4-Bromophenyl-phenylether  | 16.26 | 248 | 659m | 0.211  | ng |      |
| 21) Hexachlorobenzene          | 16.38 | 284 | 728m | 0.211  | ng |      |
| 22) Pentachlorophenol          | 16.80 | 266 | 136  | 0.256  | ng | 86   |
| 23) Phenanthrene               | 17.11 | 178 | 3333 | 0.228  | ng | 99   |
| 24) Anthracene                 | 17.23 | 178 | 3017 | 0.225  | ng | 99   |
| 26) Fluoranthene               | 19.13 | 202 | 4729 | 0.252  | ng | 99   |
| 28) Pyrene                     | 19.49 | 202 | 4856 | 0.227  | ng | 99   |
| 30) Benzo(a)anthracene         | 21.25 | 228 | 4410 | 0.214  | ng | 98   |
| 31) Chrysene                   | 21.29 | 228 | 6051 | 0.257  | ng | 98   |
| 32) Bis(2-ethylhexyl)phthalate | 21.13 | 149 | 2654 | 0.218  | ng | # 98 |
| 33) Indeno(1,2,3-cd)pyrene     | 25.74 | 276 | 7040 | 0.253  | ng | 99   |
| 35) Benzo(b)fluoranthene       | 22.82 | 252 | 5343 | 0.232  | ng | # 95 |
| 36) Benzo(k)fluoranthene       | 22.87 | 252 | 6801 | 0.250  | ng | # 94 |
| 37) Benzo(a)pyrene             | 23.40 | 252 | 5917 | 0.249  | ng | # 91 |
| 38) Dibenzo(a,h)anthracene     | 25.74 | 278 | 5855 | 0.241  | ng | # 96 |
| 39) Benzo(g,h,i)perylene       | 26.41 | 276 | 6156 | 0.251  | ng | # 95 |

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

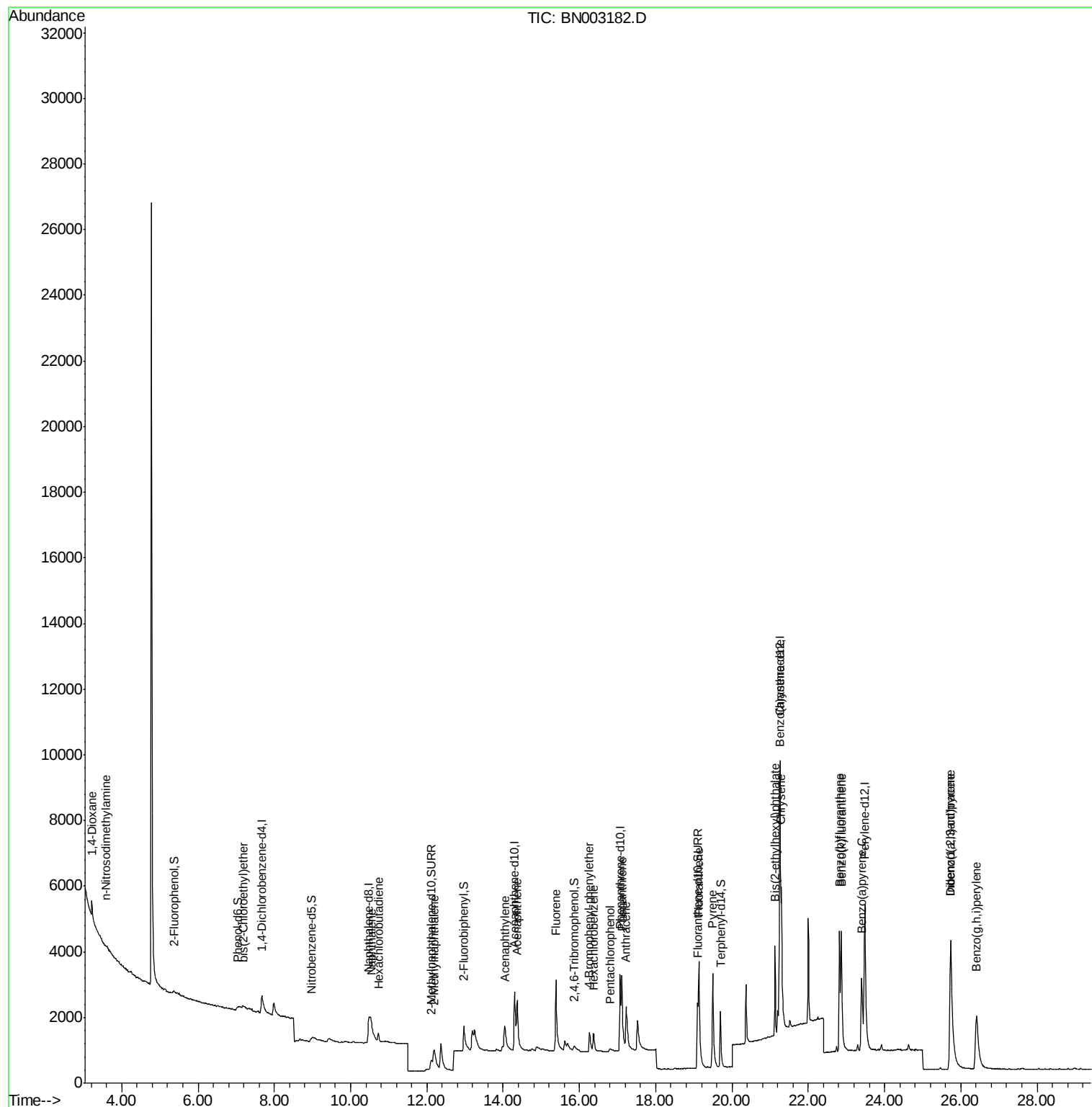
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101718\  
Data File : BN003182.D  
Acq On : 17 Oct 2018 16:32  
Operator : MJ/SJ  
Sample : PB113776BS  
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ALS Vial : 3 Sample Multiplier: 1

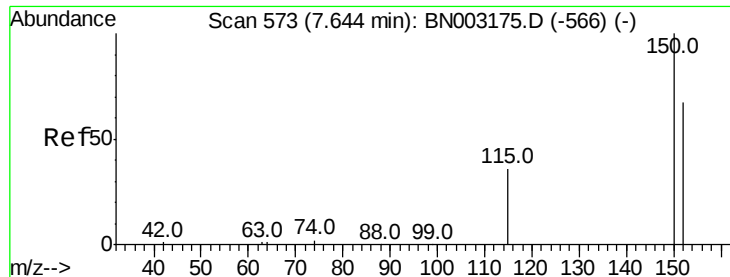
Instrument :  
BNA\_N  
ClientSampleId :  
PB113776BS

Quant Time: Oct 18 15:54:42 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN101718.M  
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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.68 min Scan# 577

Delta R.T. 0.03 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

Instrument :

BNA\_N

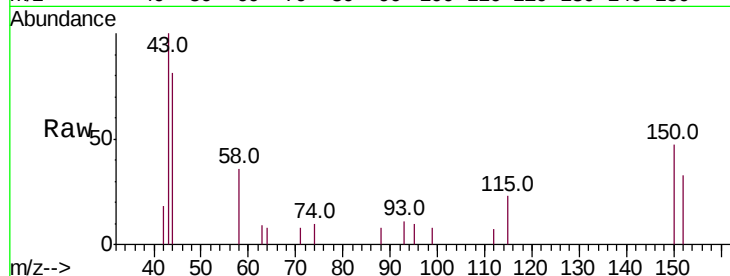
ClientSampleId :

PB113776BS

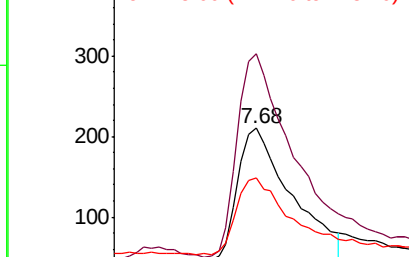
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 664   |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 150      | 144.3 | 126.2 | 189.4 |
| 115      | 70.5  | 49.8  | 74.6  |

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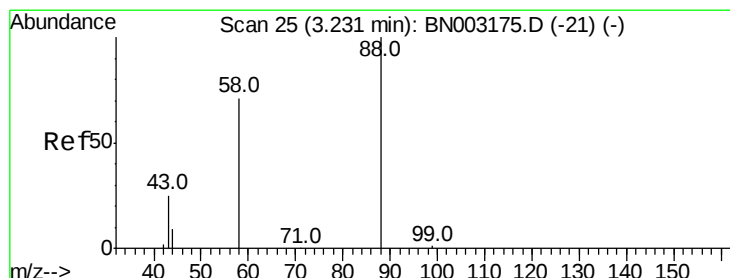
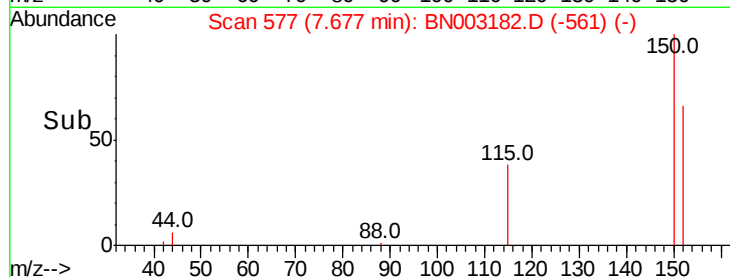
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Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



Time-->



#2

1,4-Dioxane

Concen: 0.450 ng

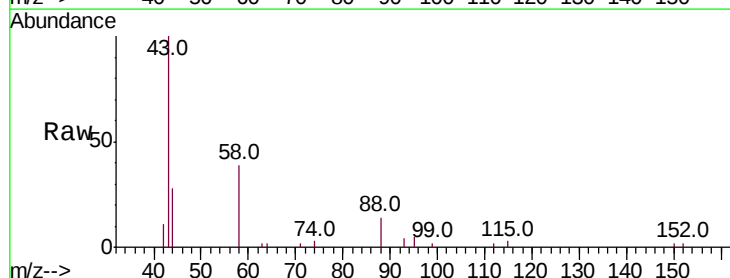
RT: 3.22 min Scan# 24

Delta R.T. -0.01 min

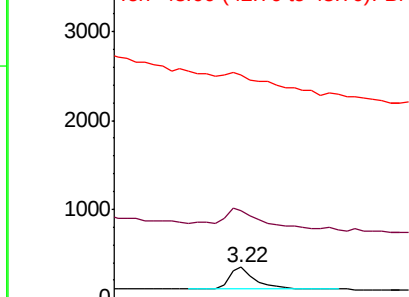
Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

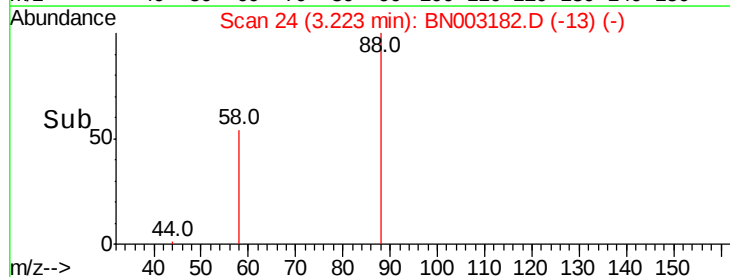
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 88    | Resp: | 428    |
| Ion      | Ratio | Lower | Upper  |
| 88       | 100   |       |        |
| 58       | 126.2 | 66.7  | 100.1# |
| 43       | 0.0   | 24.6  | 37.0#  |

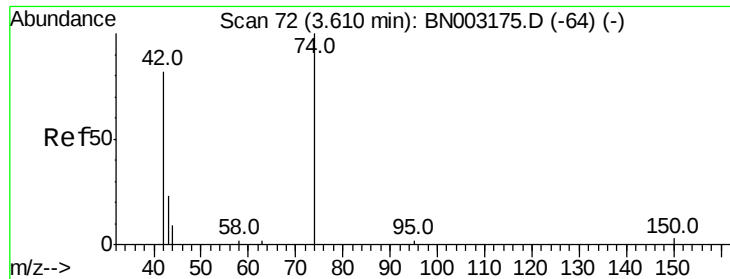


Abundance Ion 88.00 (87.70 to 88.70): BNC  
Ion 58.00 (57.70 to 58.70): BNC  
Ion 43.00 (42.70 to 43.70): BNC



Time-->





#3

n-Nitrosodimethylamine

Concen: 0.281 ng

RT: 3.59 min Scan# 69

Delta R.T. -0.02 min

Lab File: BN003182.D

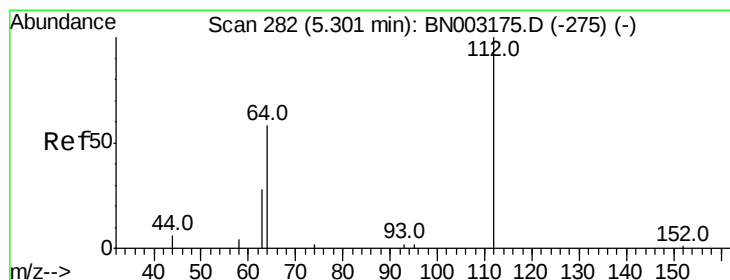
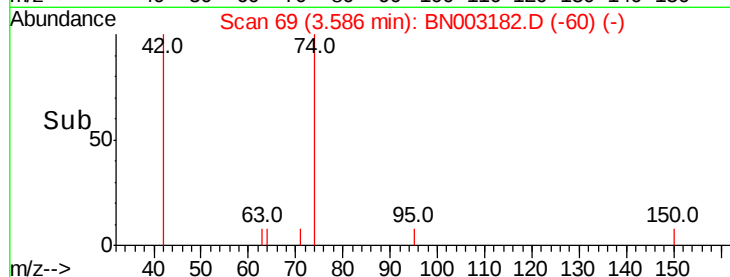
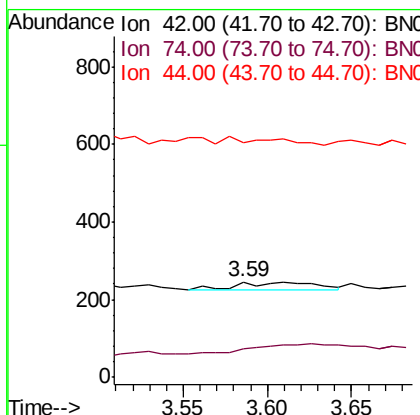
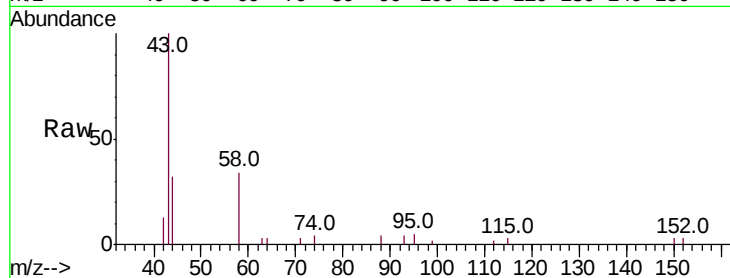
Acq: 17 Oct 2018 16:32

Instrument :  
BNA\_N  
ClientSampleId :  
PB113776BS

| Tot Ion | 42    | Resp: | 70     |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 42      | 100   |       |        |
| 74      | 0.0   | 102.9 | 154.3# |
| 44      | 0.0   | 0.0   | 0.0    |

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#4

2-Fluorophenol

Concen: 0.291 ng m

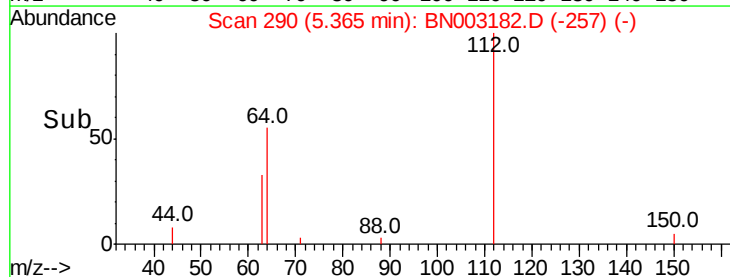
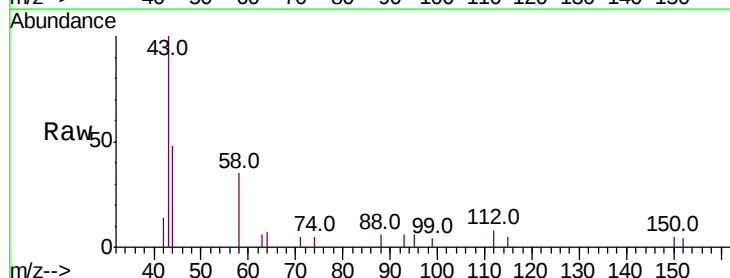
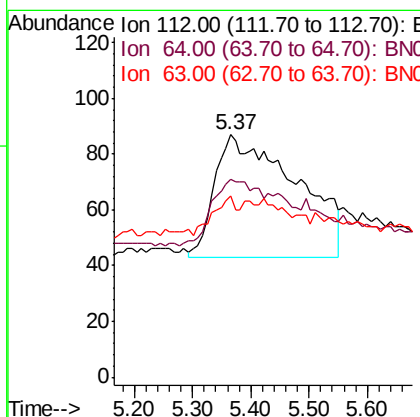
RT: 5.37 min Scan# 290

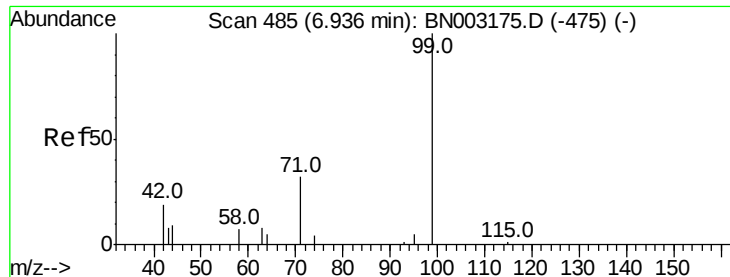
Delta R.T. 0.06 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

| Tgt Ion | 112   | Resp: | 427   |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 112     | 100   |       |       |
| 64      | 34.9  | 49.0  | 73.4# |
| 63      | 8.2   | 25.9  | 38.9# |





#5

Phenol-d6

Concen: 0.228 ng/mL

RT: 7.05 min Scan# 499

Delta R.T. 0.11 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

Instrument :

BNA\_N

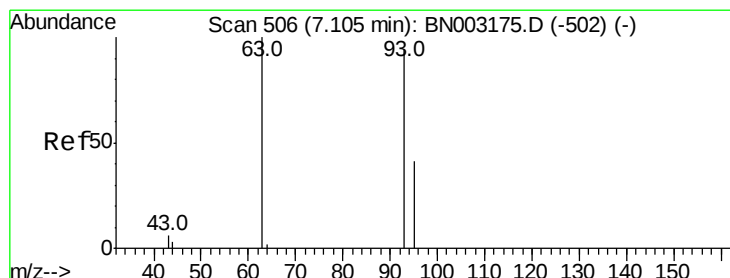
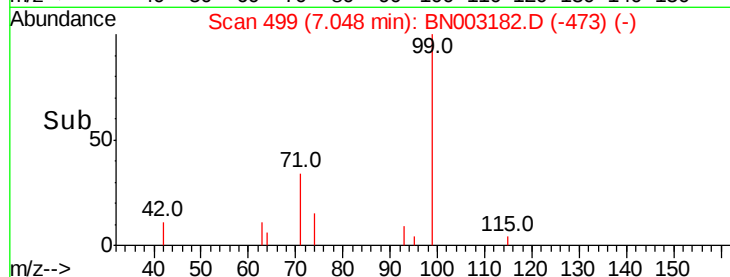
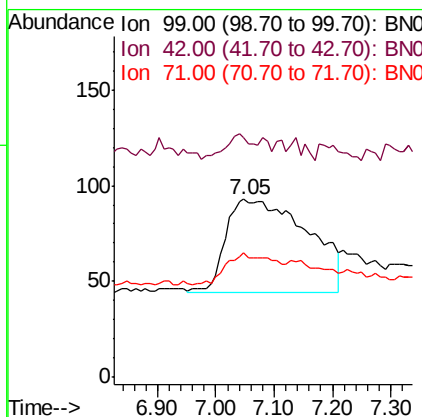
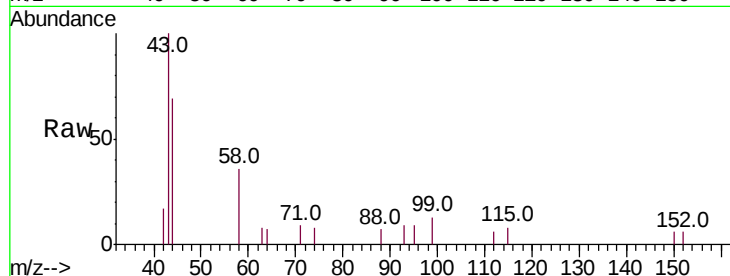
ClientSampleID :

PB113776BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 476   |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 8.6   | 15.4  | 23.2# |
| 71       | 19.3  | 26.0  | 39.0# |

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#6

bis(2-Chloroethyl)ether

Concen: 0.315 ng/mL

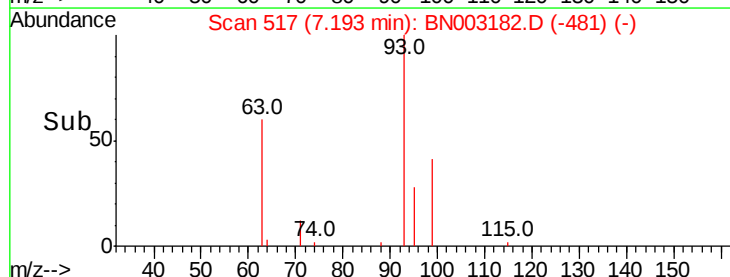
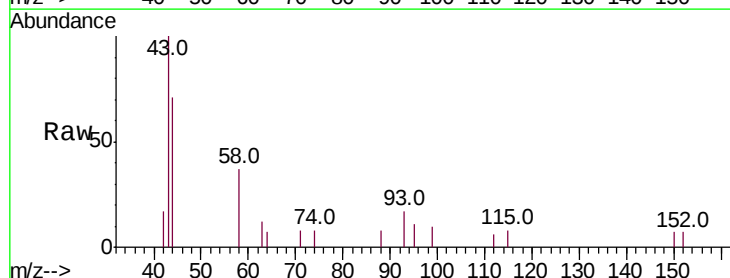
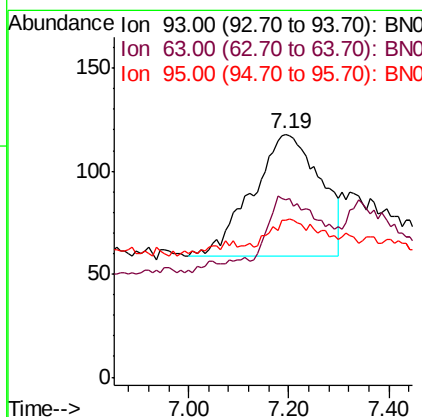
RT: 7.19 min Scan# 517

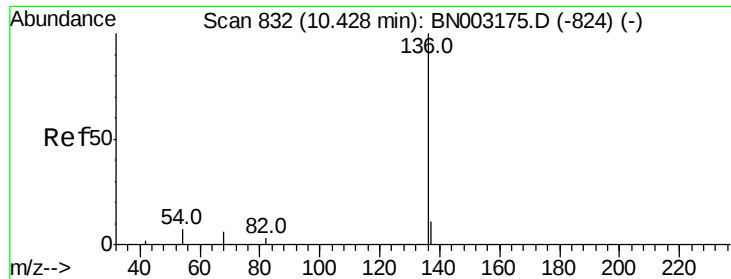
Delta R.T. 0.09 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 553   |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 0.0   | 54.2  | 81.4# |
| 95       | 10.7  | 24.9  | 37.3# |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.48 min Scan# 836

Delta R.T. 0.05 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

Instrument :

BNA\_N

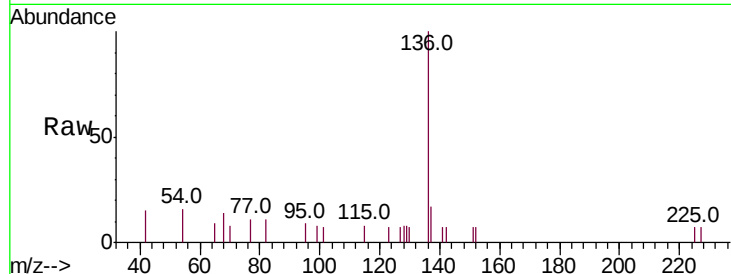
ClientSampleId :

PB113776BS

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   | 2956 |       |       |
| 137     | 16.6  |      | 9.4   | 14.0# |
| 54      | 16.3  |      | 7.4   | 11.0# |
| 68      | 14.1  |      | 5.8   | 8.6#  |

Manual Integrations  
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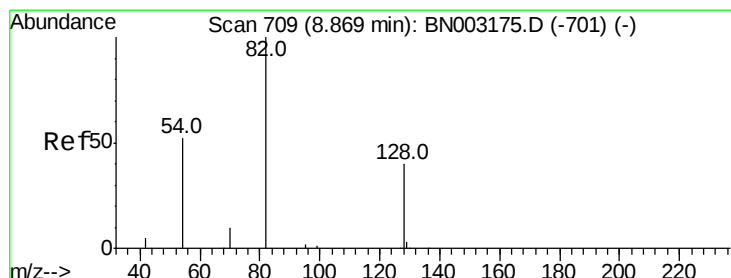
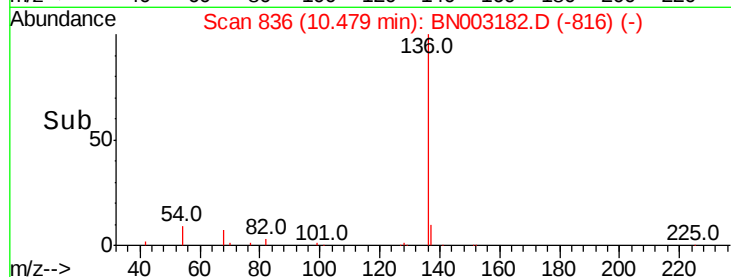
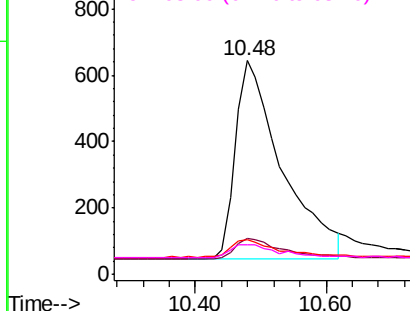


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.204 ng m

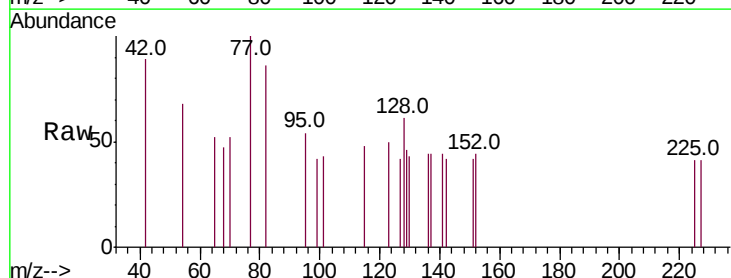
RT: 8.98 min Scan# 718

Delta R.T. 0.12 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

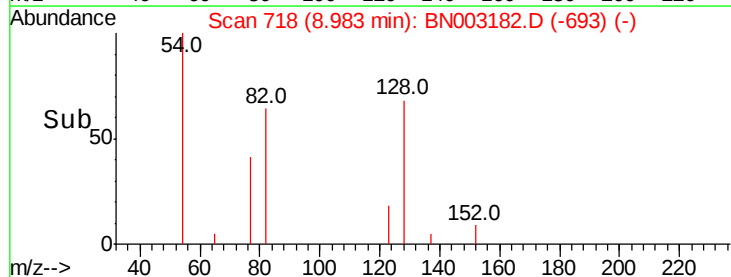
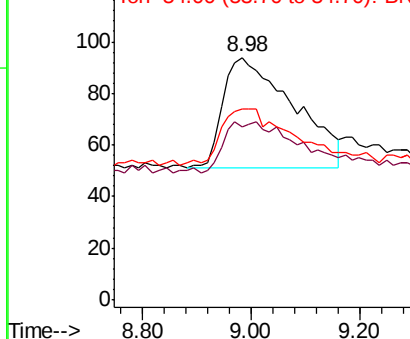
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   | 389  |       |       |
| 128     | 71.3  |      | 38.2  | 57.4# |
| 54      | 78.7  |      | 44.1  | 66.1# |

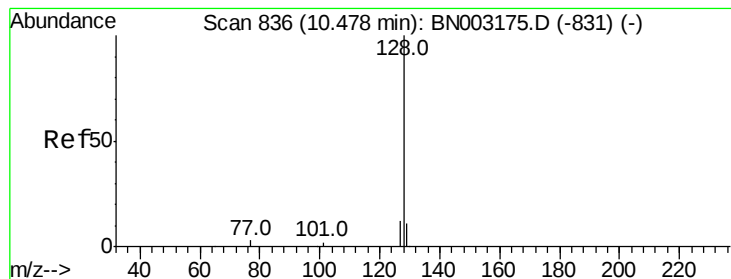


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.239 ng

RT: 10.54 min Scan# 841

Delta R.T. 0.06 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

Instrument :

BNA\_N

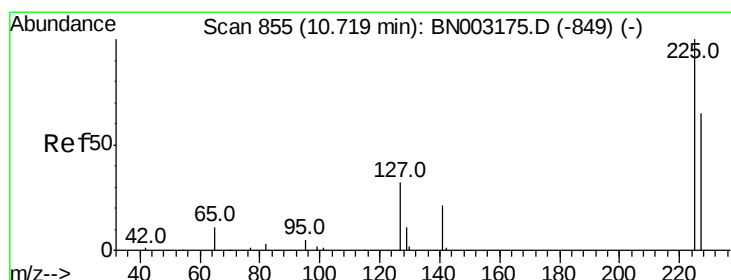
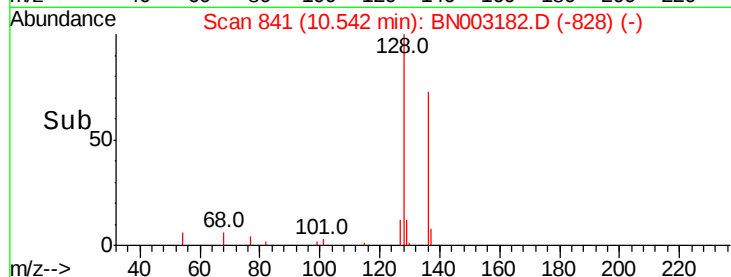
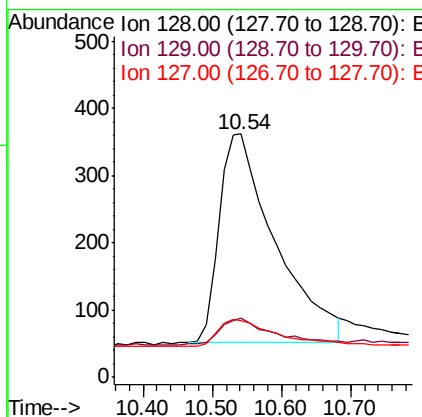
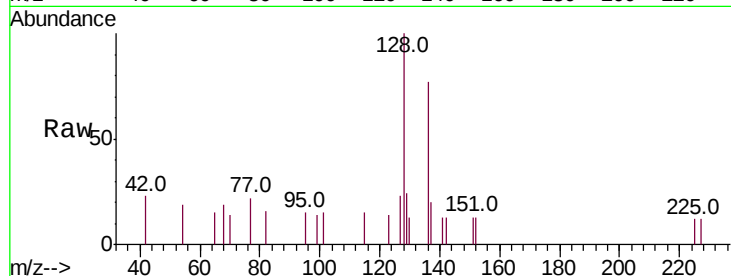
ClientSampleId :

PB113776BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 1758  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 24.3  | 9.8   | 14.6# |
| 127       | 23.2  | 11.4  | 17.2# |

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#10

Hexachlorobutadiene

Concen: 0.217 ng

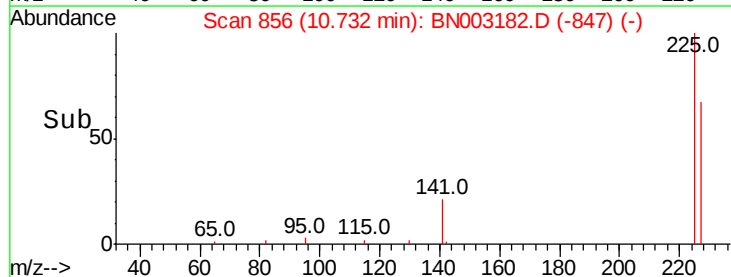
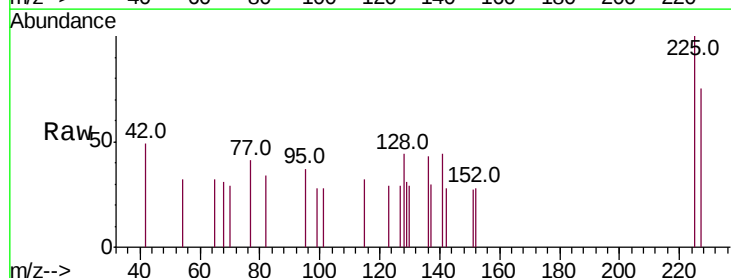
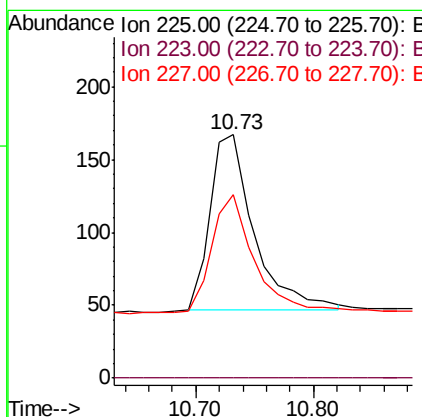
RT: 10.73 min Scan# 856

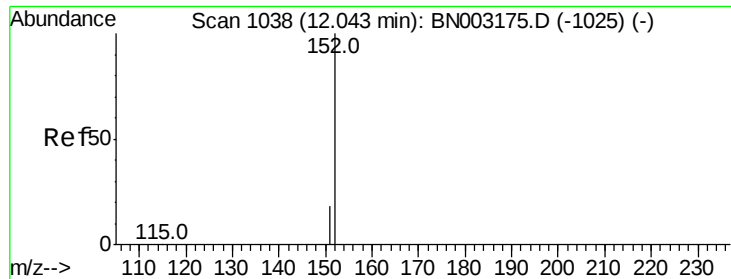
Delta R.T. 0.01 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 313  |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 0.0   | 0.0   | 0.0  |
| 227       | 62.3  | 51.8  | 77.8 |





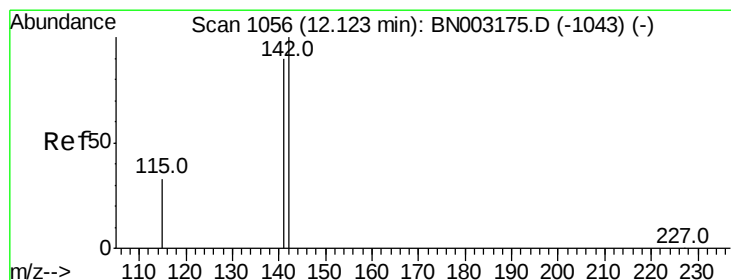
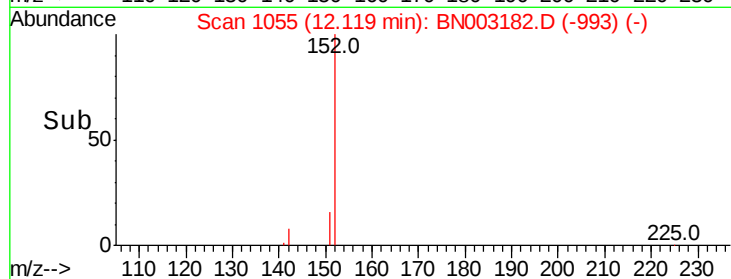
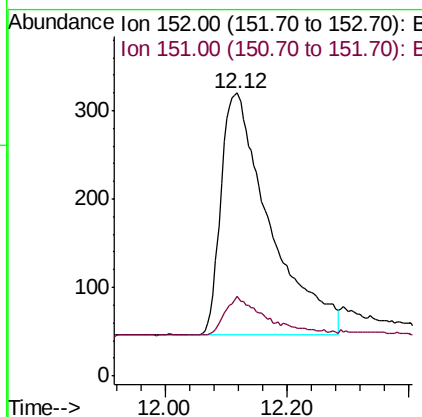
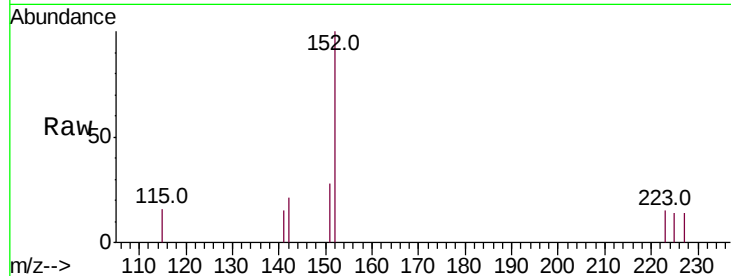
#11  
2-Methylnaphthalene-d10  
Concen: 0.305 ng  
RT: 12.12 min Scan# 1055  
Delta R.T. 0.08 min  
Lab File: BN003182.D  
Acq: 17 Oct 2018 16:32

Instrument :  
BNA\_N  
ClientSampleId :  
PB113776BS

Tot Ion:152 Resp: 1524  
Ion Ratio Lower Upper  
152 100  
151 13.4 15.0 22.4#

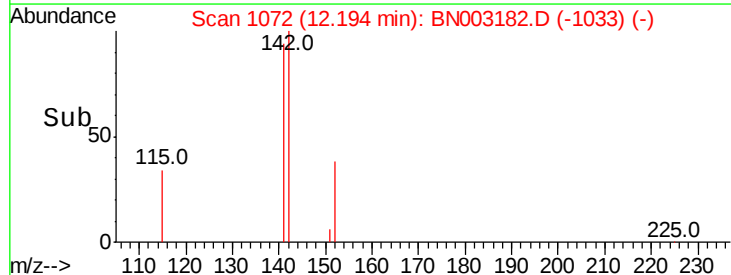
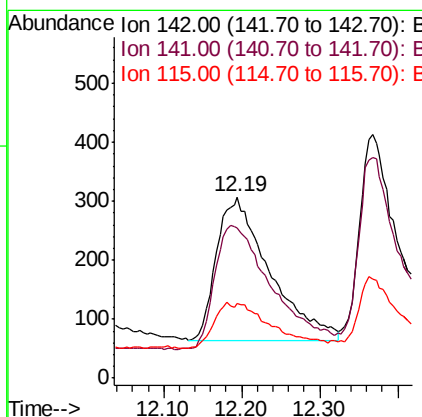
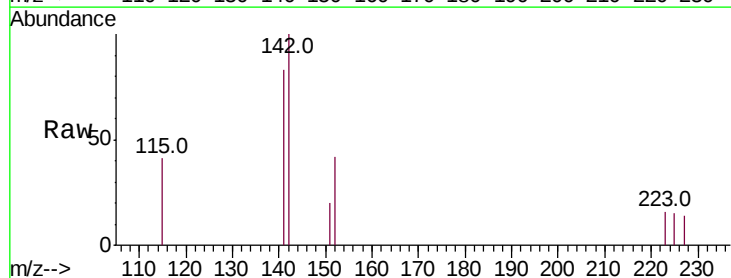
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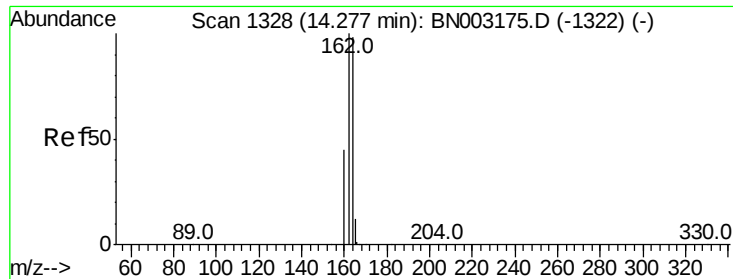
Sohil  
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#12  
2-Methylnaphthalene  
Concen: 0.228 ng  
RT: 12.19 min Scan# 1072  
Delta R.T. 0.07 min  
Lab File: BN003182.D  
Acq: 17 Oct 2018 16:32

Tgt Ion:142 Resp: 1147  
Ion Ratio Lower Upper  
142 100  
141 82.7 71.5 107.3  
115 41.0 28.1 42.1





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.30 min Scan# 1330

Delta R.T. 0.02 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

Instrument :

BNA\_N

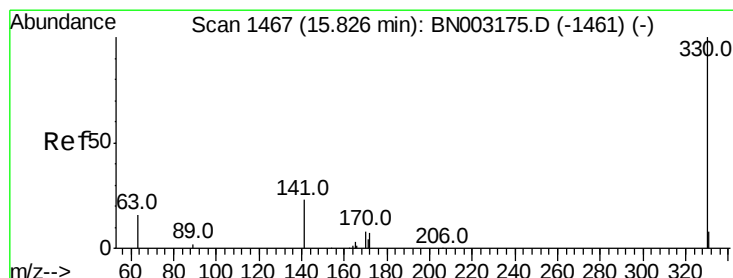
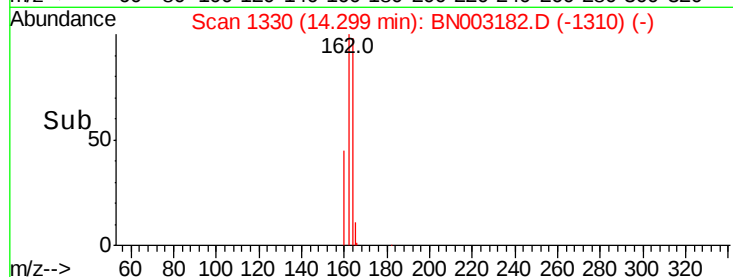
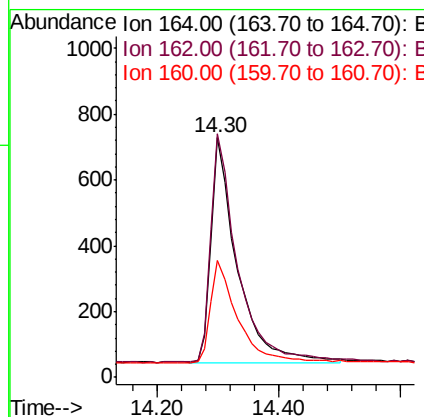
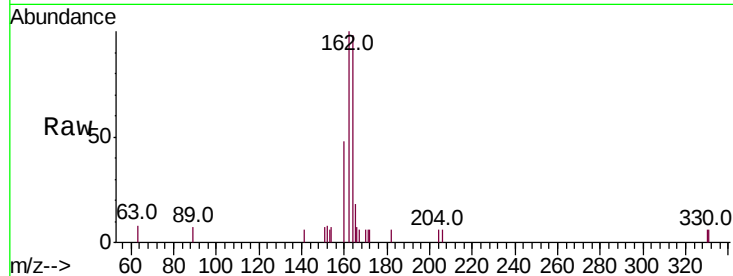
ClientSampleId :

PB113776BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 164   | Resp: | 2021  |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 101.6 | 81.7  | 122.5 |
| 160       | 48.9  | 36.3  | 54.5  |

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#14

2,4,6-Tribromophenol

Concen: 0.216 ng

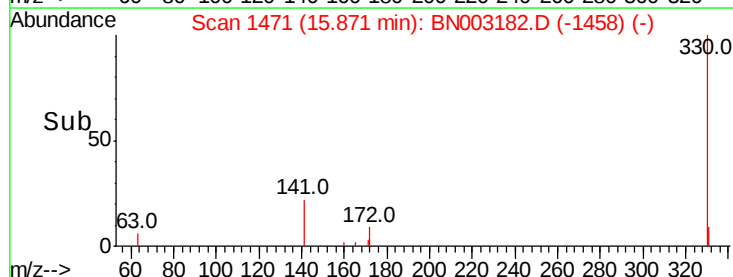
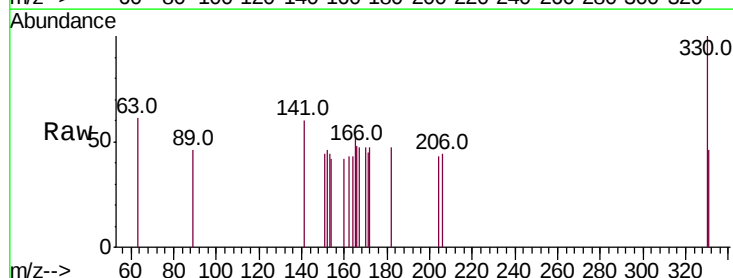
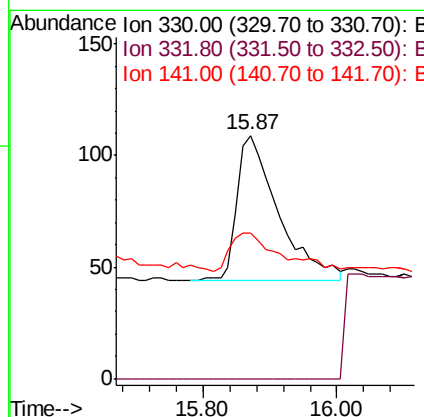
RT: 15.87 min Scan# 1471

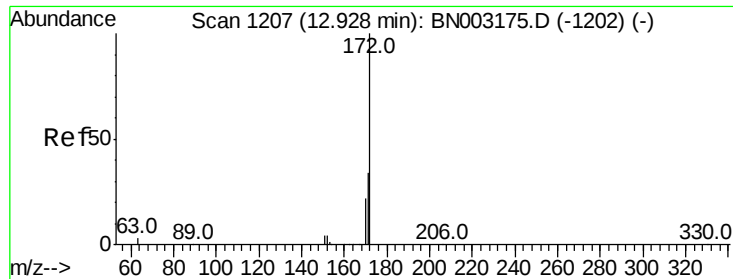
Delta R.T. 0.04 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 330   | Resp: | 278  |
| Ion Ratio | Lower | Upper |      |
| 330       | 100   |       |      |
| 332       | 0.0   | 0.0   | 0.0  |
| 141       | 32.4  | 22.6  | 33.8 |





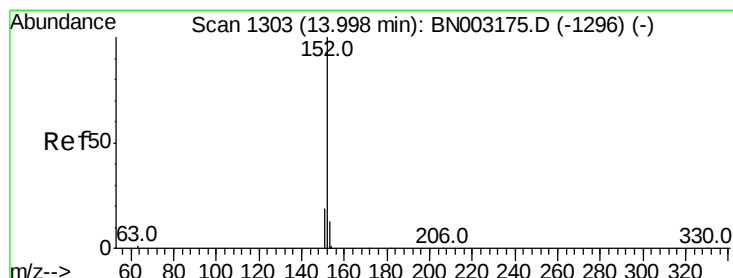
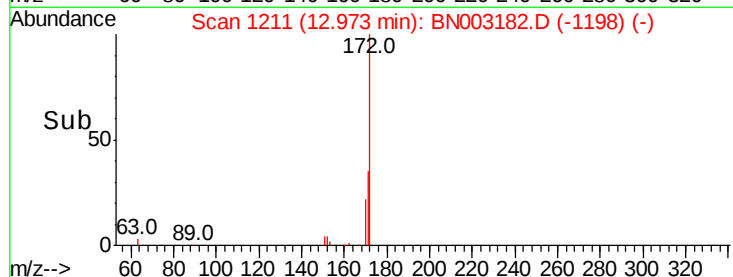
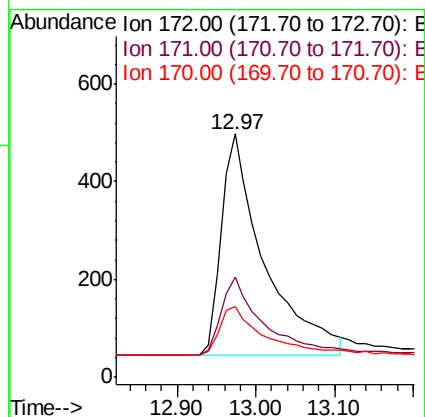
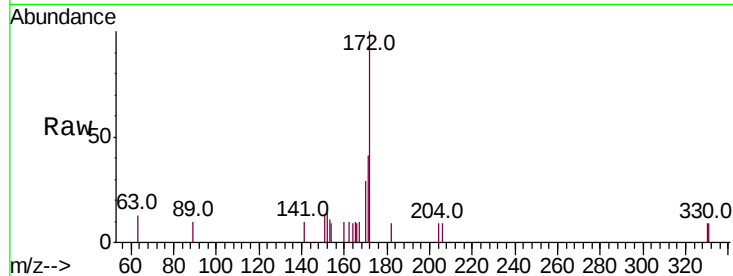
#15  
2-Fluorobiphenyl  
Concen: 0.218 ng  
RT: 12.97 min Scan# 1211  
Delta R.T. 0.04 min  
Lab File: BN003182.D  
Acq: 17 Oct 2018 16:32

Instrument :  
BNA\_N  
ClientSampleId :  
PB113776BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 41.0  | 28.6  | 43.0  |
| 170     | 29.1  | 18.6  | 27.8  |

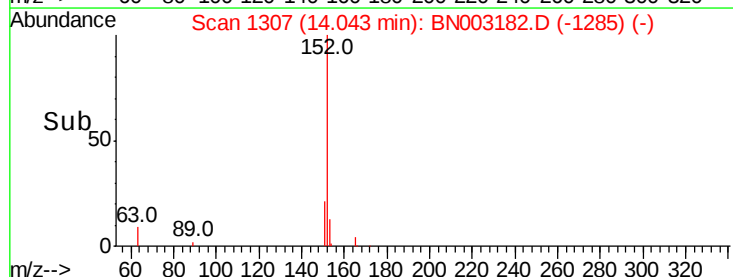
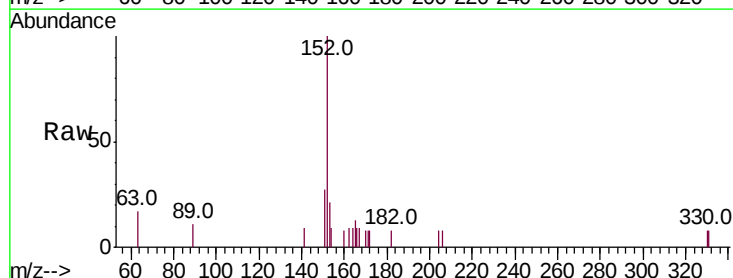
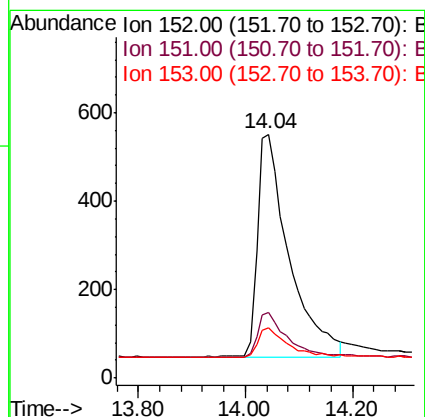
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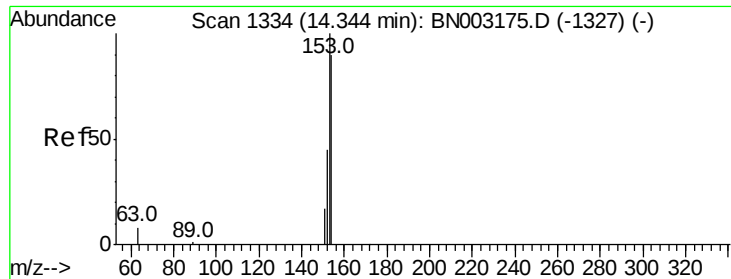
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#16  
Acenaphthylene  
Concen: 0.225 ng  
RT: 14.04 min Scan# 1307  
Delta R.T. 0.04 min  
Lab File: BN003182.D  
Acq: 17 Oct 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.2  | 15.7  | 23.5  |
| 153     | 12.8  | 10.6  | 16.0  |





#17

Acenaphthene

Concen: 0.229 ng

RT: 14.37 min Scan# 1336

Delta R.T. 0.02 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

Instrument :

BNA\_N

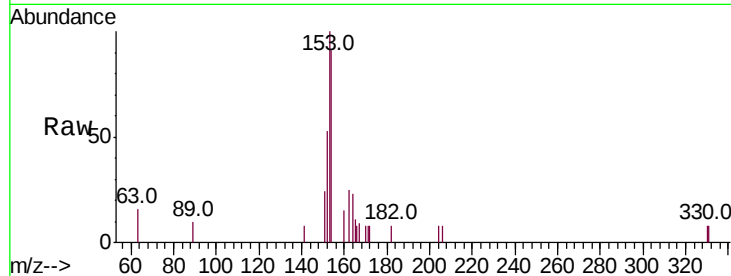
ClientSampleId :

PB113776BS

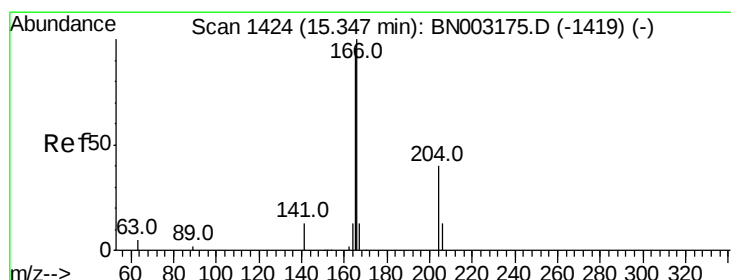
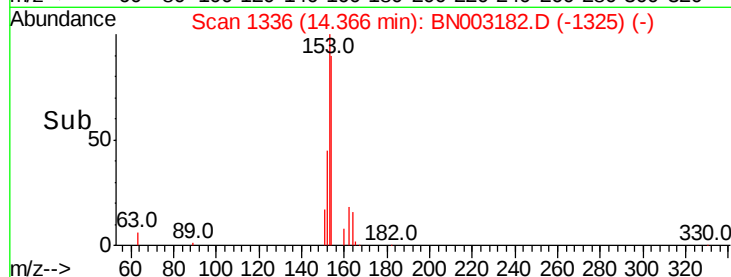
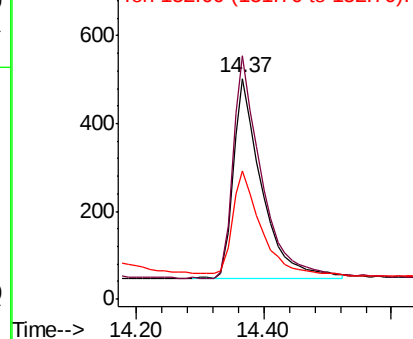
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 154   | Resp: | 1400  |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 112.4 | 91.0  | 136.4 |
| 152      | 51.2  | 43.8  | 65.6  |

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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: 0.237 ng

RT: 15.38 min Scan# 1427

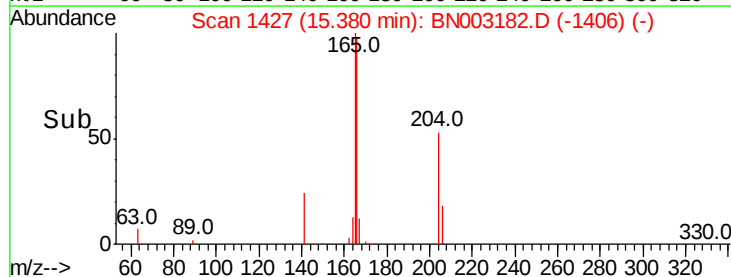
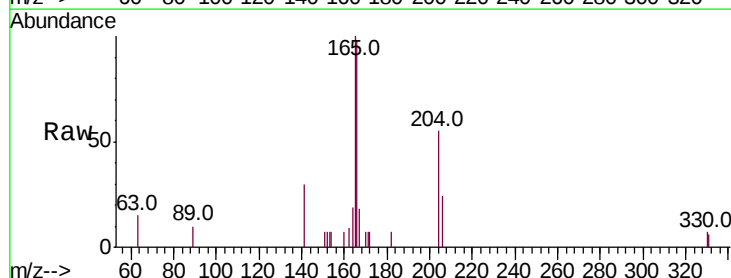
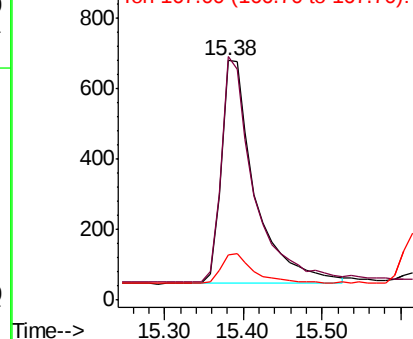
Delta R.T. 0.03 min

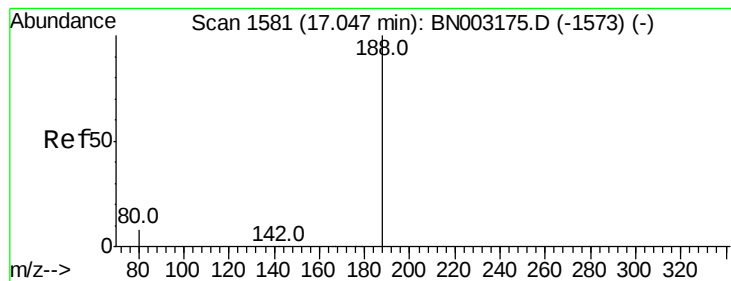
Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 1889  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 97.8  | 78.2  | 117.2 |
| 167      | 13.3  | 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: 17.07 min Scan# 1583

Delta R.T. 0.02 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

Instrument :

BNA\_N

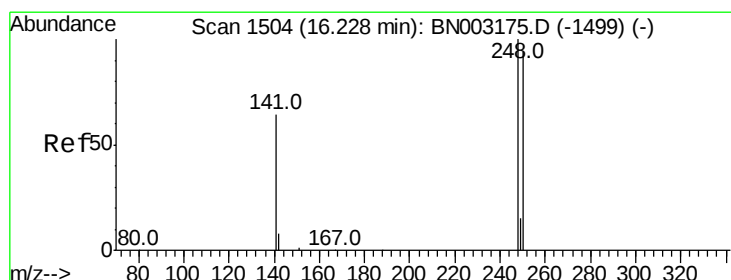
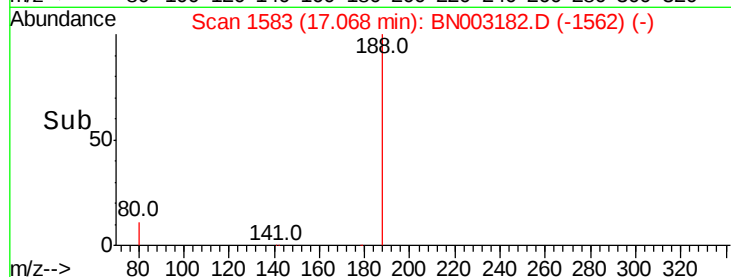
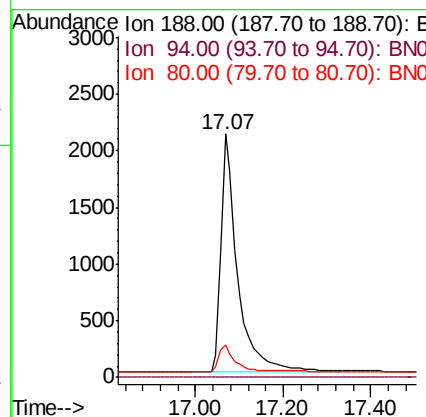
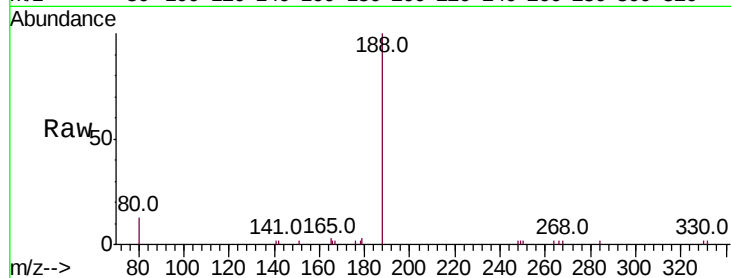
ClientSampleId :

PB113776BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 188   | Resp: | 5591  |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 13.5  | 6.7   | 10.1# |

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#20

4-Bromophenyl-phenylether

Concen: 0.211 ng m

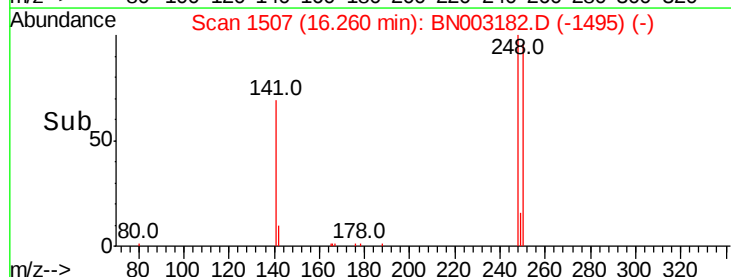
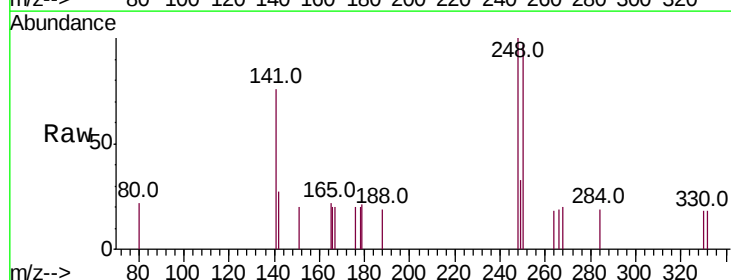
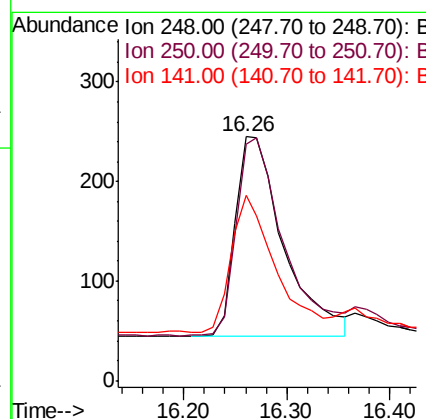
RT: 16.26 min Scan# 1507

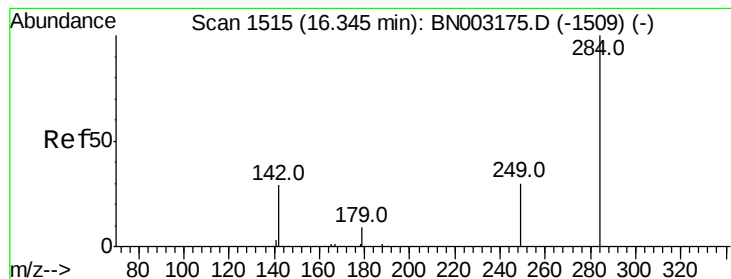
Delta R.T. 0.03 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 659   |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 96.7  | 78.9  | 118.3 |
| 141       | 75.9  | 48.5  | 72.7# |





#21

Hexachlorobenzene

Concen: 0.211 ng

RT: 16.38 min Scan# 1518

Delta R.T. 0.03 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

Instrument :

BNA\_N

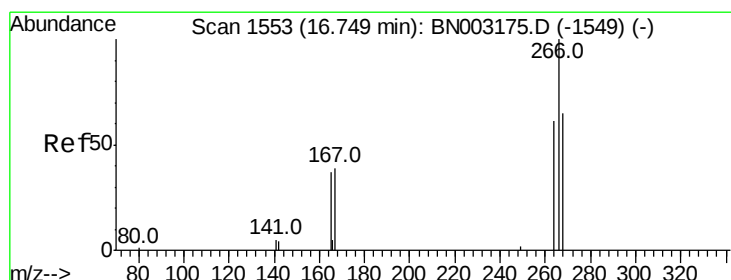
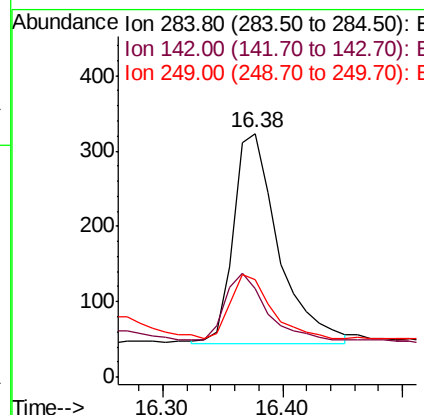
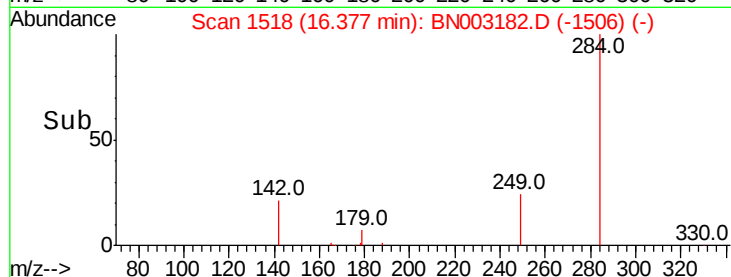
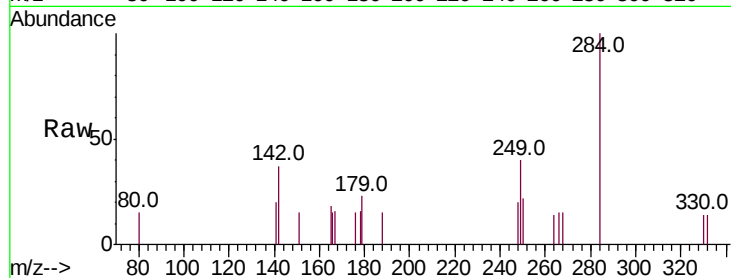
ClientSampleId :

PB113776BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 284   | Resp: | 728  |
| Ion Ratio | Lower | Upper |      |
| 284       | 100   |       |      |
| 142       | 28.2  | 24.6  | 37.0 |
| 249       | 26.4  | 22.3  | 33.5 |

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#22

Pentachlorophenol

Concen: 0.256 ng

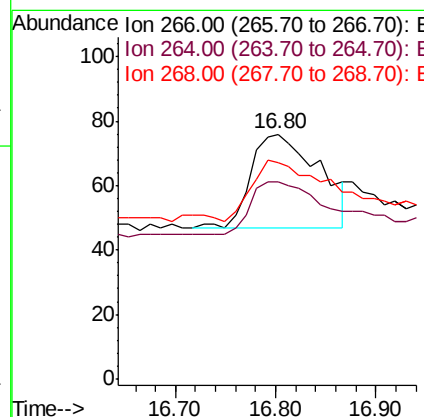
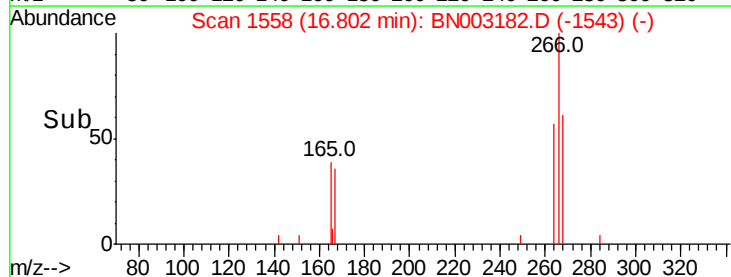
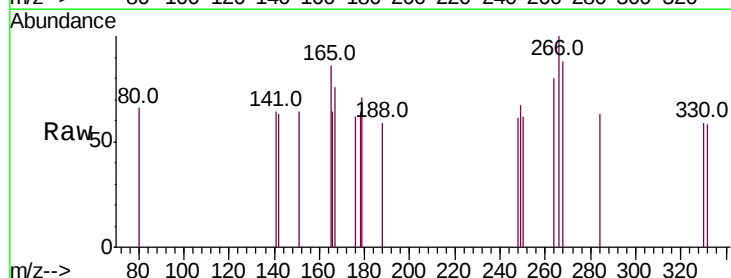
RT: 16.80 min Scan# 1558

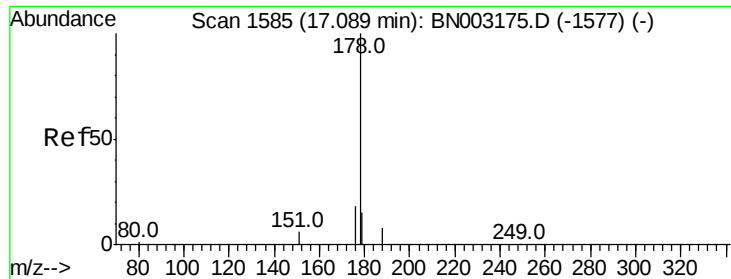
Delta R.T. 0.05 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 136  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 80.3  | 55.0  | 82.4 |
| 268       | 88.2  | 60.6  | 91.0 |





#23

Phenanthrene

Concen: 0.228 ng

RT: 17.11 min Scan# 1587

Delta R.T. 0.02 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

Instrument :

BNA\_N

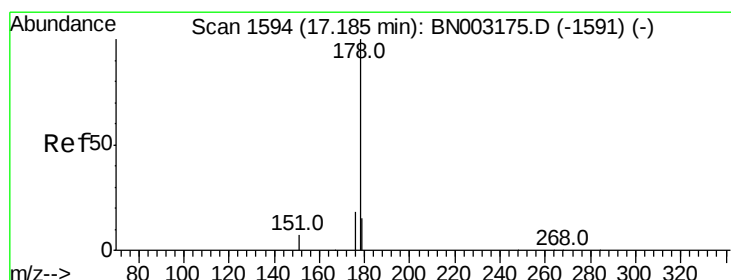
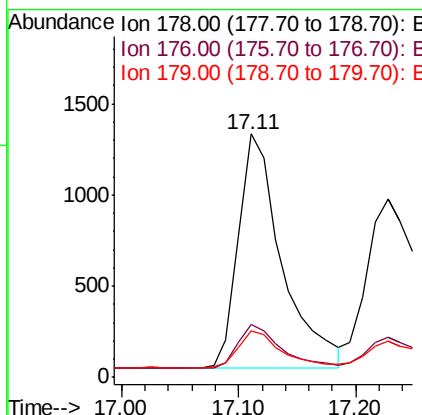
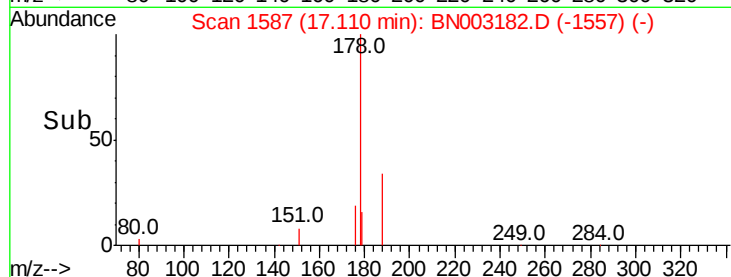
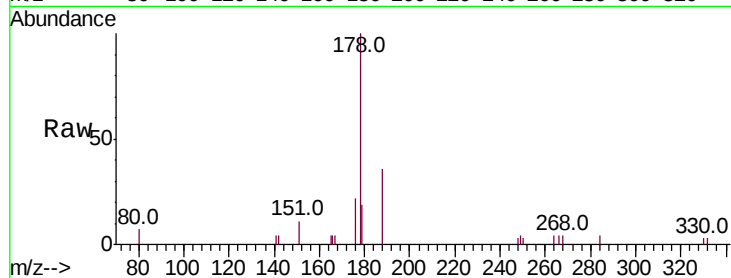
ClientSampleId :

PB113776BS

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 3333      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.8  | 14.9 22.3 |
| 179         | 15.9  | 12.3 18.5 |

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#24

Anthracene

Concen: 0.225 ng

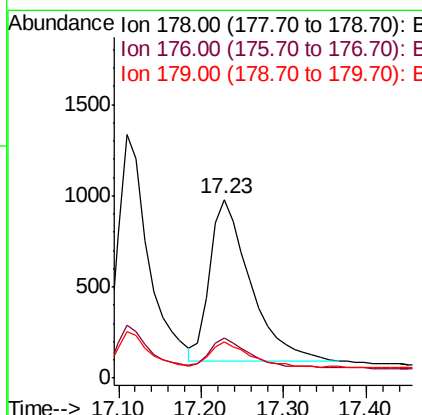
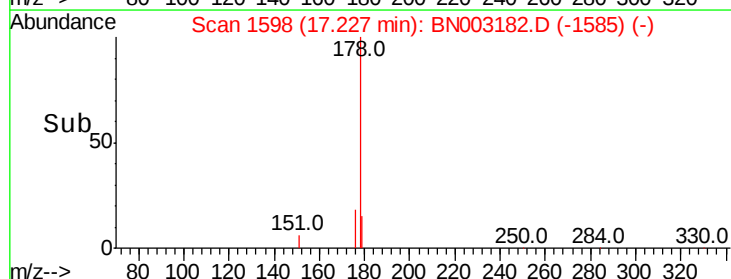
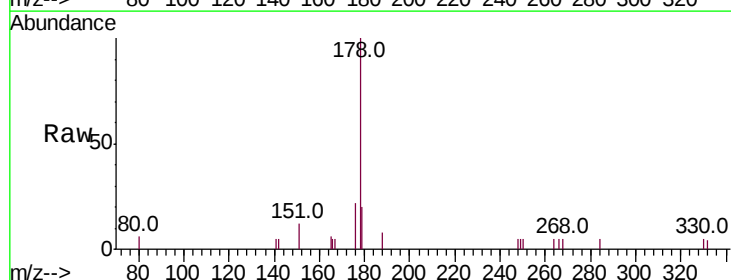
RT: 17.23 min Scan# 1598

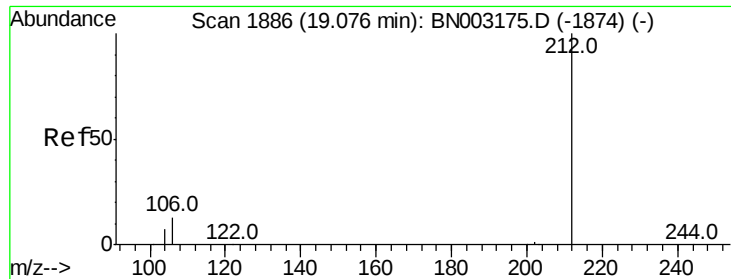
Delta R.T. 0.04 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 3017      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.1  | 14.6 22.0 |
| 179         | 14.7  | 12.3 18.5 |





#25

Fluoranthene-d10

Concen: 0.236 ng

RT: 19.10 min Scan# 1890

Delta R.T. 0.02 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

Instrument :

BNA\_N

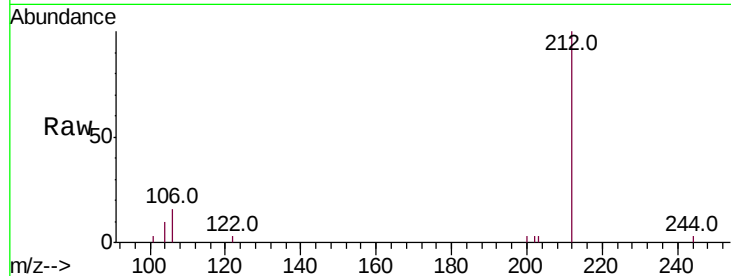
ClientSampleId :

PB113776BS

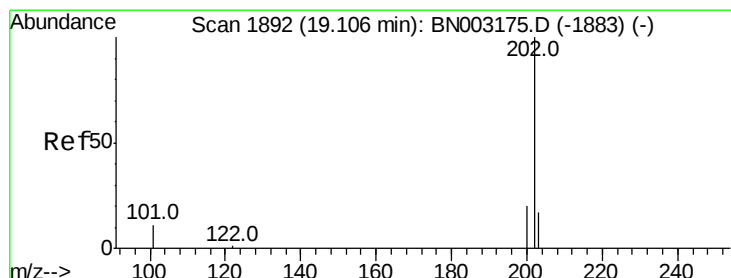
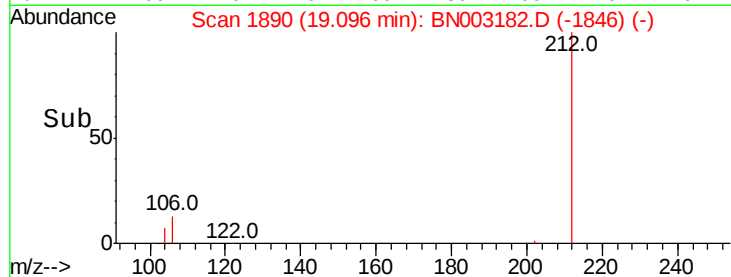
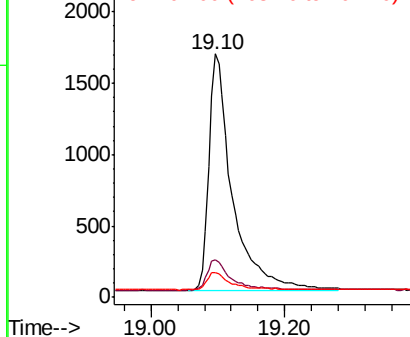
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 212   | Resp: | 4097 |
| Ion Ratio | Lower | Upper |      |
| 212       | 100   |       |      |
| 106       | 13.0  | 10.2  | 15.4 |
| 104       | 7.3   | 5.8   | 8.6  |

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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: 0.252 ng

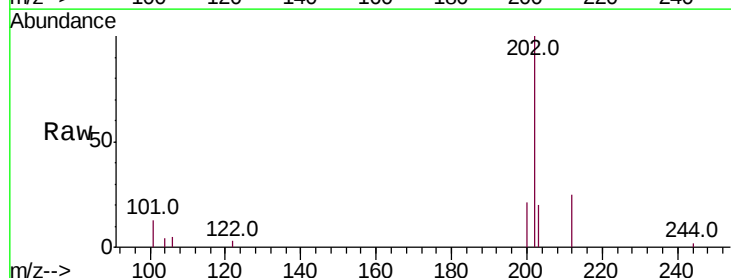
RT: 19.13 min Scan# 1897

Delta R.T. 0.02 min

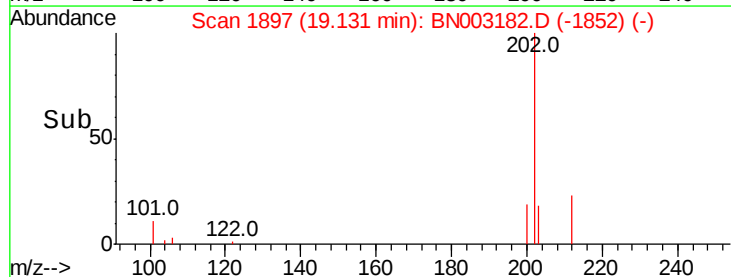
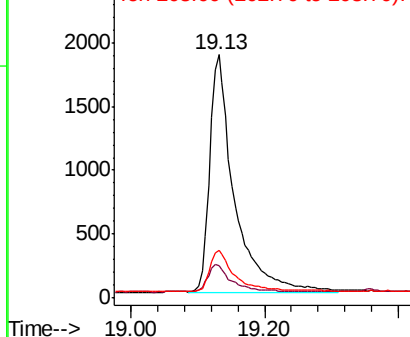
Lab File: BN003182.D

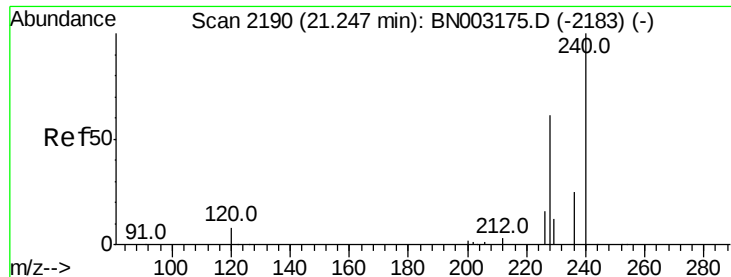
Acq: 17 Oct 2018 16:32

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 4729 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 11.2  | 8.6   | 12.8 |
| 203       | 17.0  | 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: 21.26 min Scan# 2191

Delta R.T. 0.01 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

Instrument :

BNA\_N

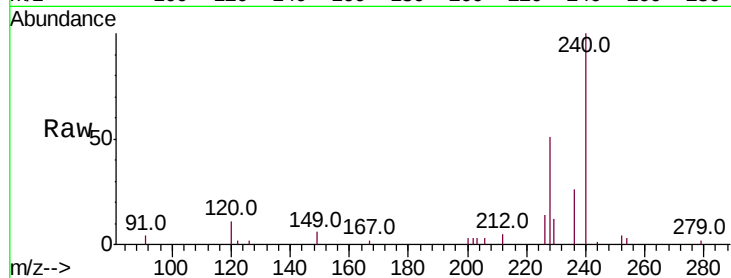
ClientSampled :

PB113776BS

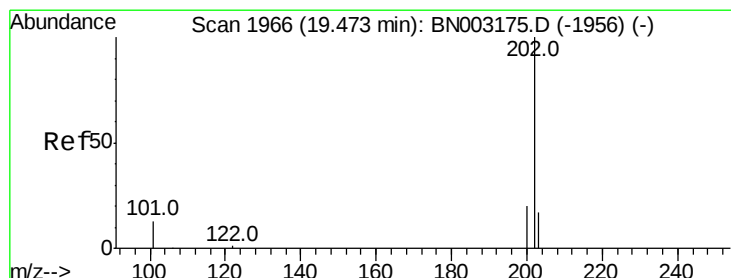
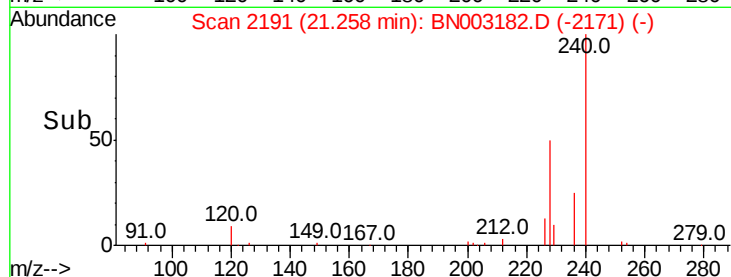
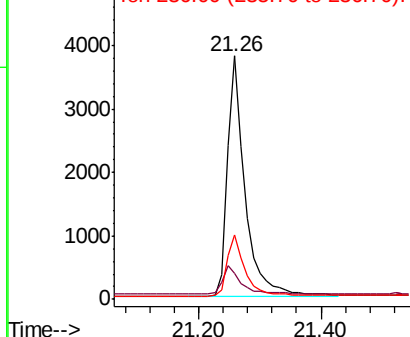
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 240   | Resp: | 7655 |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 10.9  | 7.8   | 11.8 |
| 236       | 26.5  | 21.0  | 31.4 |

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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

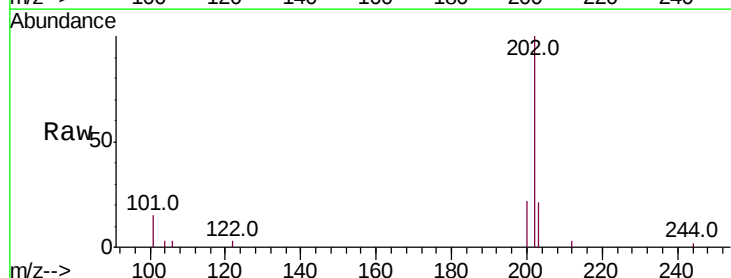
RT: 19.49 min Scan# 1970

Delta R.T. 0.02 min

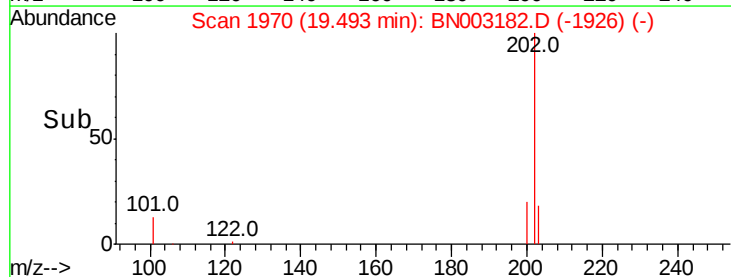
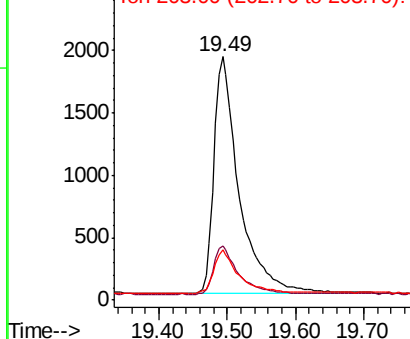
Lab File: BN003182.D

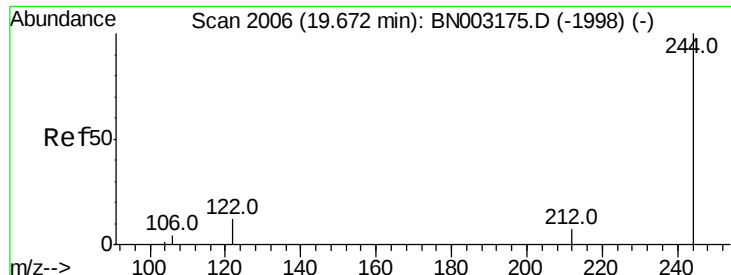
Acq: 17 Oct 2018 16:32

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 4856 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 20.2  | 16.3  | 24.5 |
| 203       | 18.2  | 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





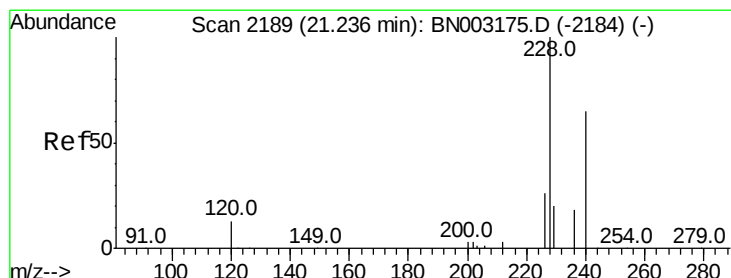
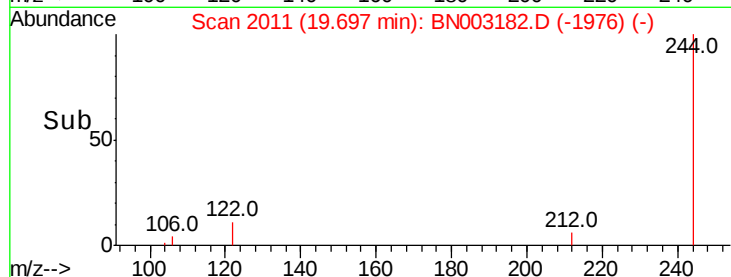
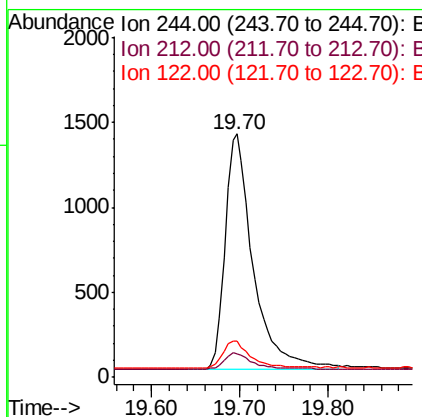
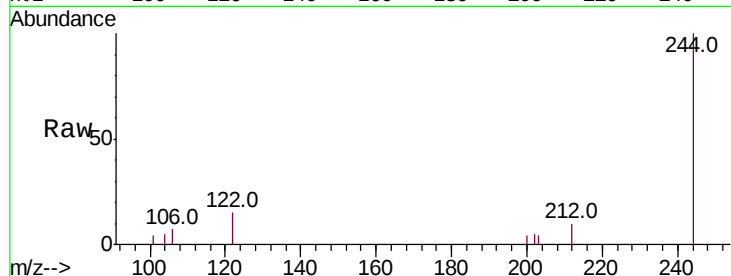
#29  
 Terphenyl-d14  
 Concen: 0.185 ng  
 RT: 19.70 min Scan# 2011  
 Delta R.T. 0.02 min  
 Lab File: BN003182.D  
 Acq: 17 Oct 2018 16:32

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB113776BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.8   | 6.2   | 9.4#  |
| 122     | 14.9  | 9.1   | 13.7# |

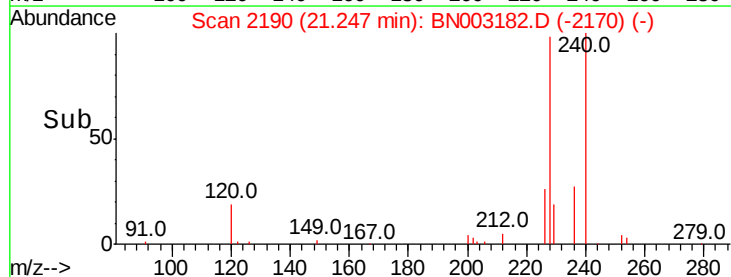
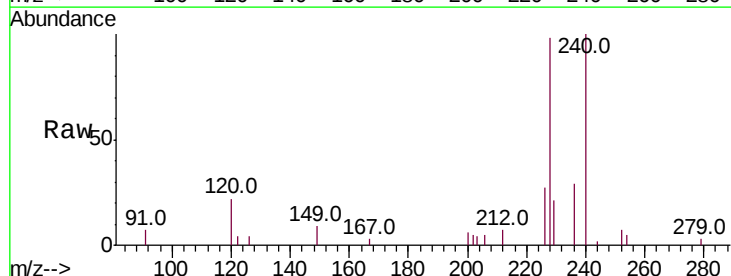
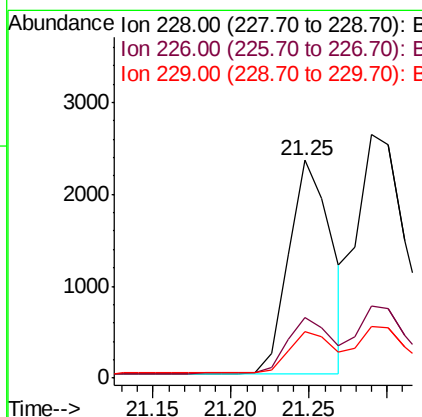
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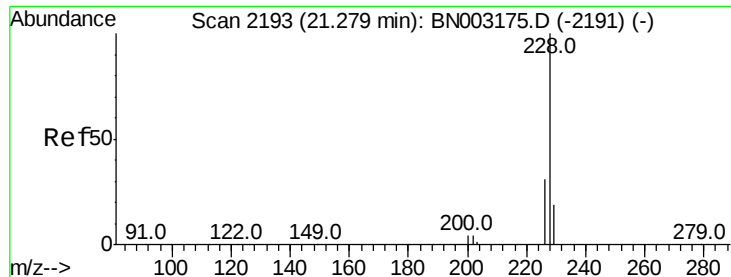
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 10/18/2018 4:40:52 PM



#30  
 Benzo(a)anthracene  
 Concen: 0.214 ng  
 RT: 21.25 min Scan# 2190  
 Delta R.T. 0.01 min  
 Lab File: BN003182.D  
 Acq: 17 Oct 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.8  | 21.4  | 32.2  |
| 229     | 21.5  | 16.4  | 24.6  |





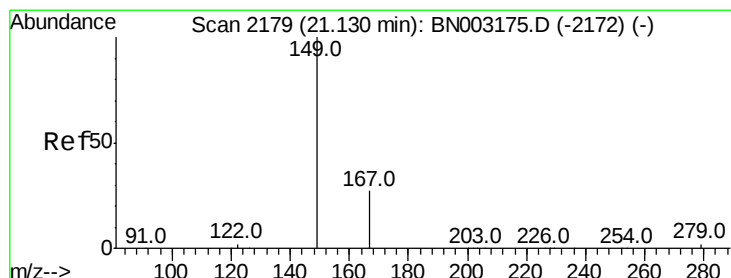
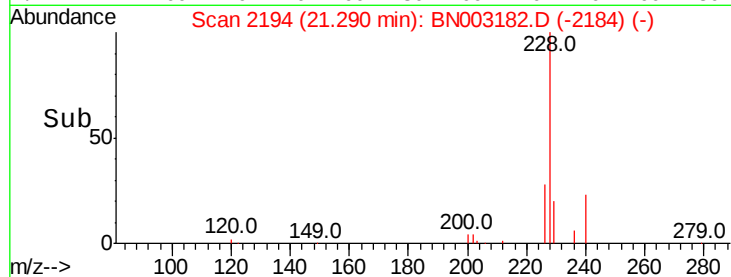
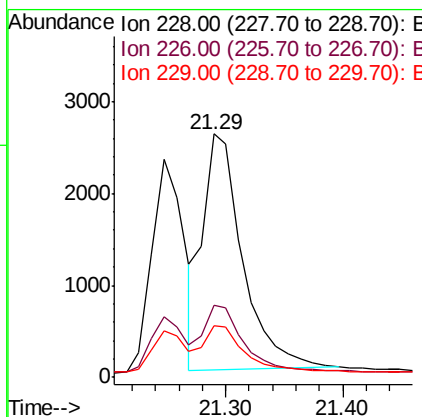
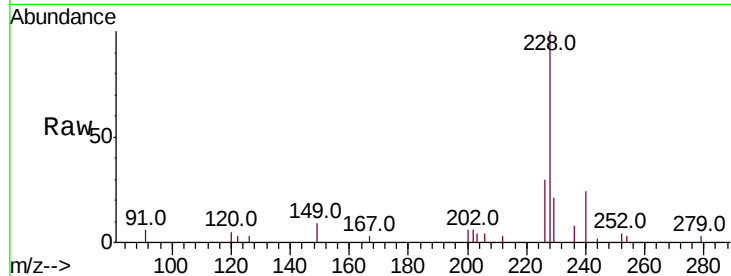
#31  
 Chrysene  
 Concen: 0.257 ng  
 RT: 21.29 min Scan# 2194  
 Delta R.T. 0.01 min  
 Lab File: BN003182.D  
 Acq: 17 Oct 2018 16:32

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB113776BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 23.1  | 34.7  |
| 229     | 21.4  | 15.9  | 23.9  |

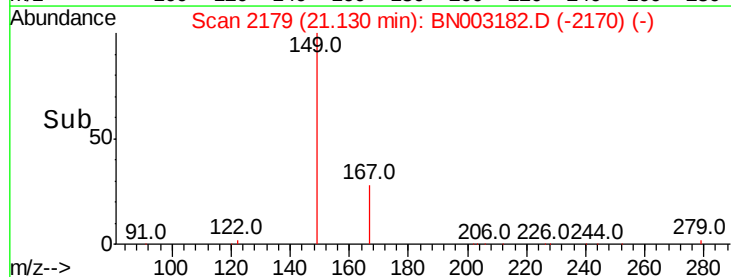
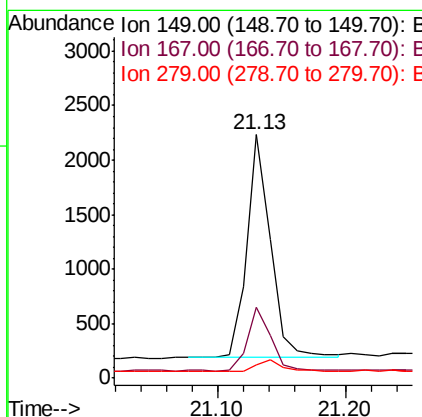
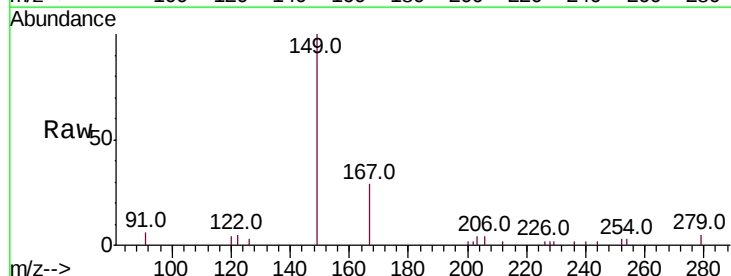
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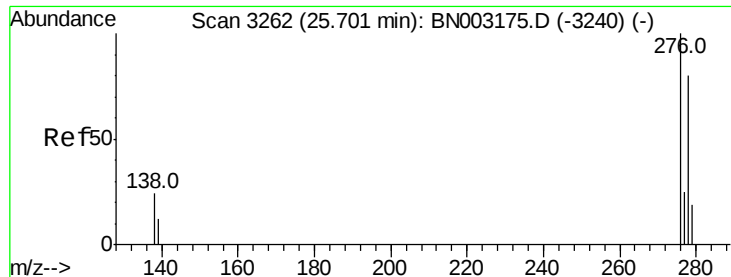
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#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.218 ng  
 RT: 21.13 min Scan# 2179  
 Delta R.T. 0.00 min  
 Lab File: BN003182.D  
 Acq: 17 Oct 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.6  | 22.2  | 33.4  |
| 279     | 5.6   | 3.7   | 5.5#  |





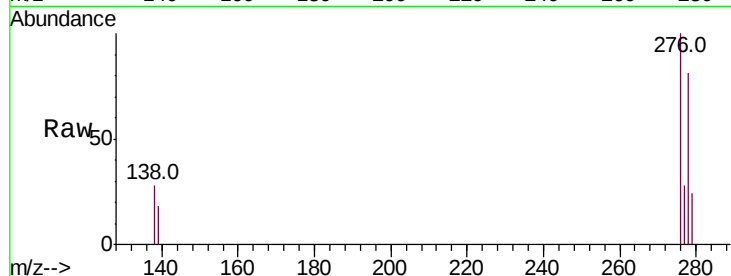
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.253 ng  
RT: 25.74 min Scan# 3273  
Delta R.T. 0.04 min  
Lab File: BN003182.D  
Acq: 17 Oct 2018 16:32

Instrument :  
BNA\_N  
ClientSampleId :  
PB113776BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.2  | 18.2  | 27.4  |
| 277     | 25.2  | 20.2  | 30.4  |

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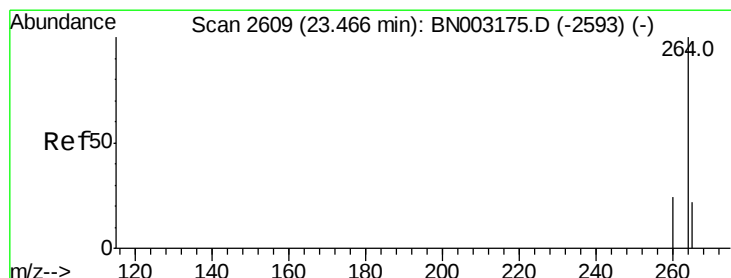
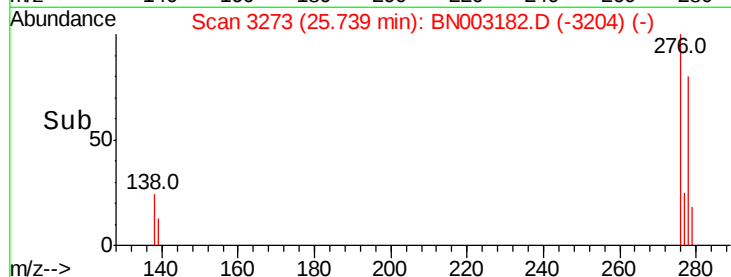
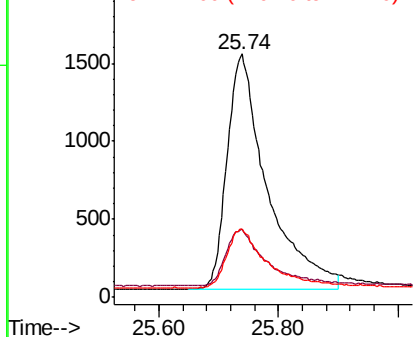


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.48 min Scan# 2613  
Delta R.T. 0.01 min  
Lab File: BN003182.D  
Acq: 17 Oct 2018 16:32

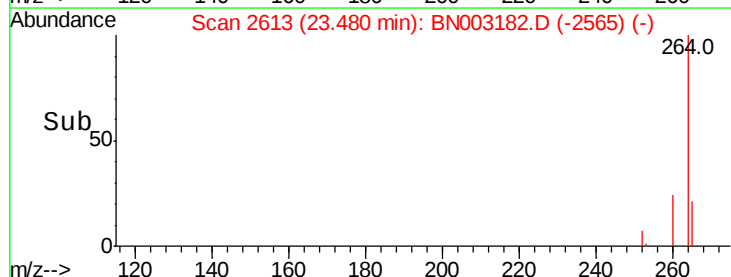
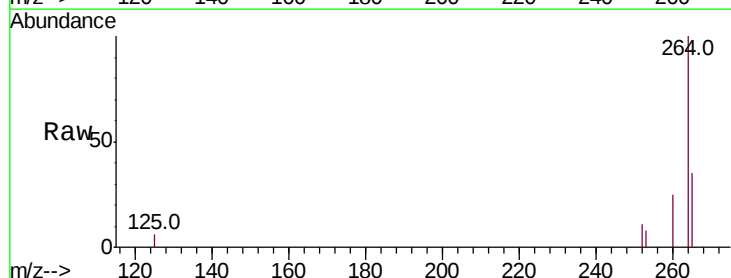
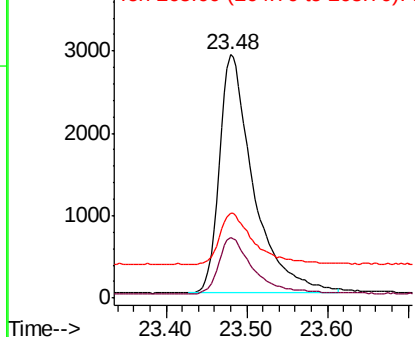
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.0  | 19.7  | 29.5  |
| 265     | 34.7  | 27.6  | 41.4  |

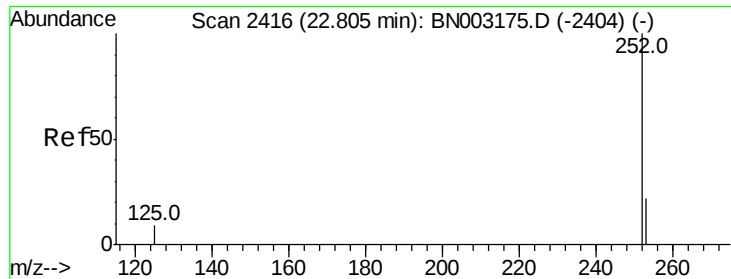
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





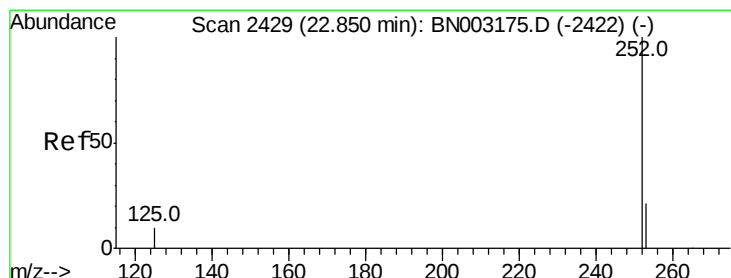
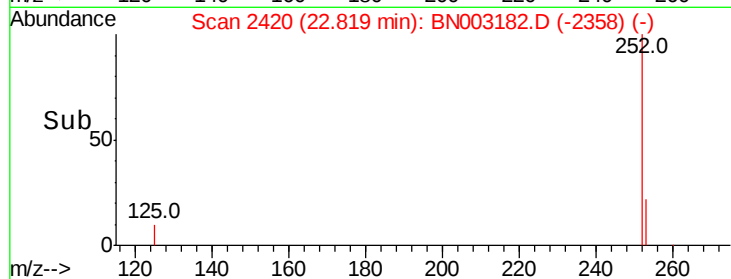
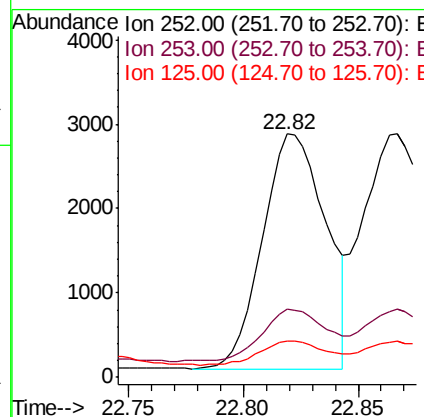
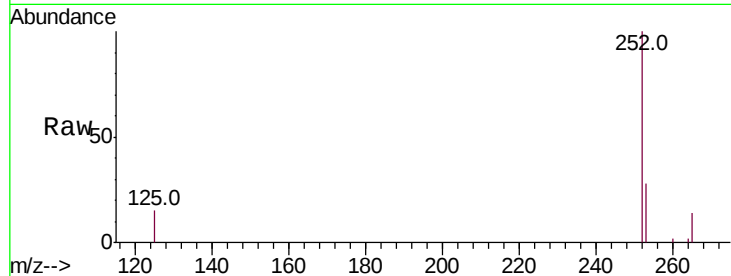
#35  
Benzo(b)fluoranthene  
Concen: 0.232 ng  
RT: 22.82 min Scan# 2420  
Delta R.T. 0.01 min  
Lab File: BN003182.D  
Acq: 17 Oct 2018 16:32

Instrument :  
BNA\_N  
ClientSampleId :  
PB113776BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.2  | 20.8  | 31.2  |
| 125     | 14.7  | 9.6   | 14.4  |

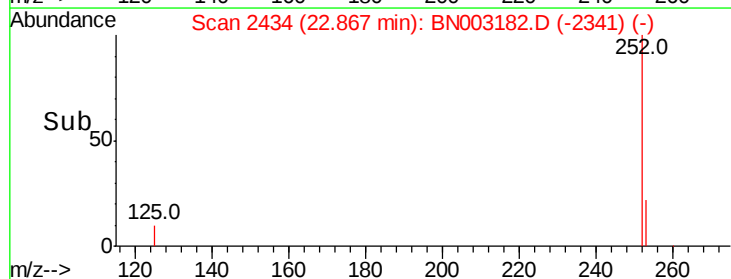
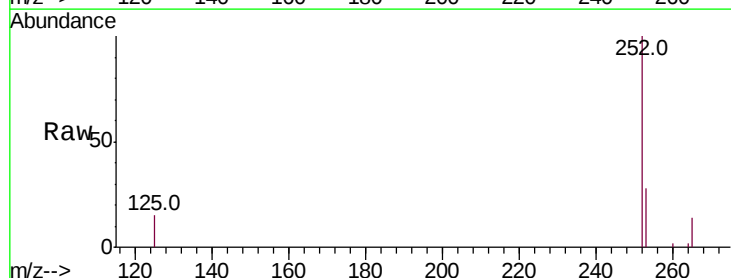
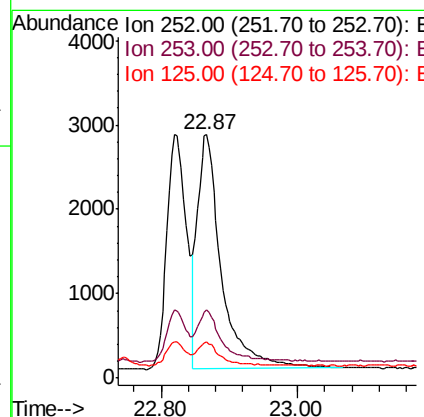
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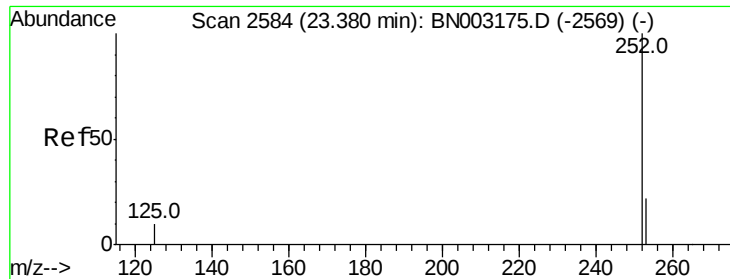
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10/18/2018 4:40:52 PM



#36  
Benzo(k)fluoranthene  
Concen: 0.250 ng  
RT: 22.87 min Scan# 2434  
Delta R.T. 0.02 min  
Lab File: BN003182.D  
Acq: 17 Oct 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.1  | 20.5  | 30.7  |
| 125     | 14.7  | 9.4   | 14.0  |





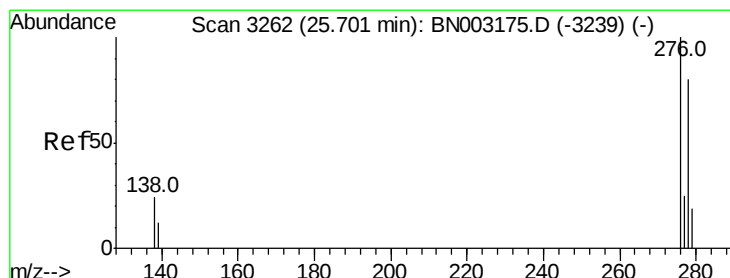
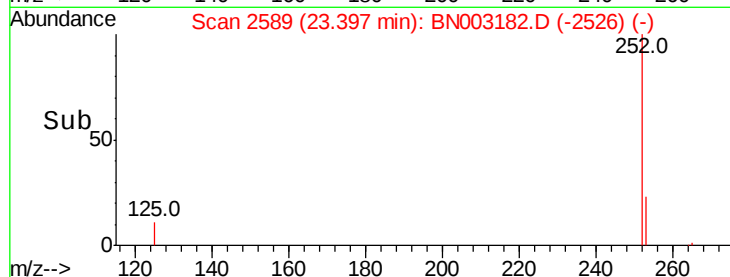
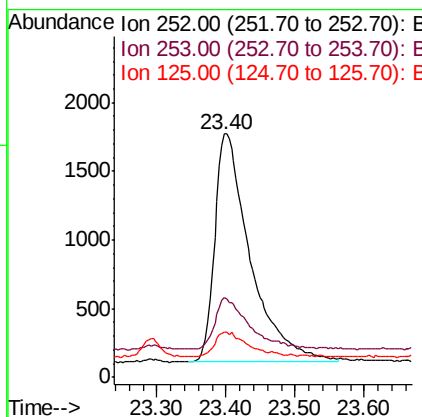
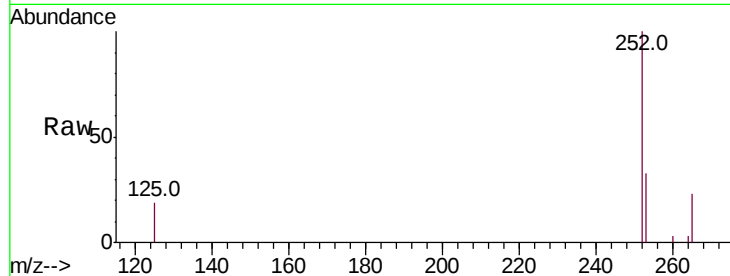
#37  
Benzo(a)pyrene  
Concen: 0.249 ng  
RT: 23.40 min Scan# 2589  
Delta R.T. 0.02 min  
Lab File: BN003182.D  
Acq: 17 Oct 2018 16:32

Instrument :  
BNA\_N  
ClientSampleId :  
PB113776BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 32.5  | 22.4  | 33.6  |
| 125     | 18.6  | 11.4  | 17.0  |

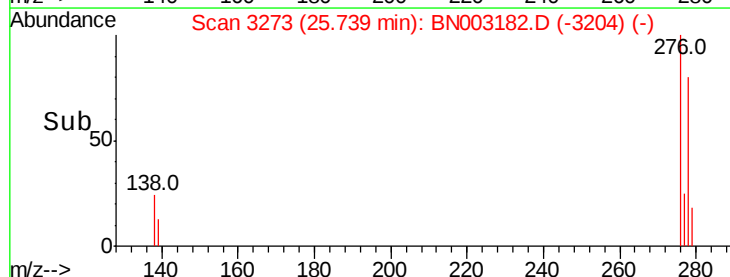
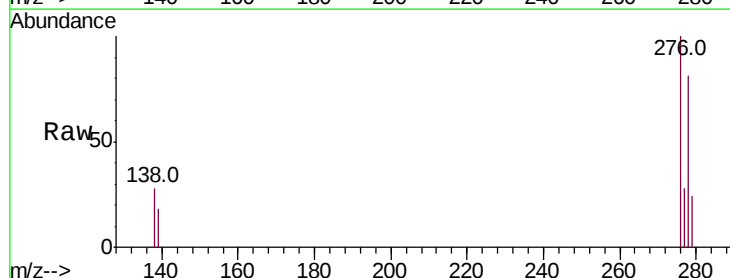
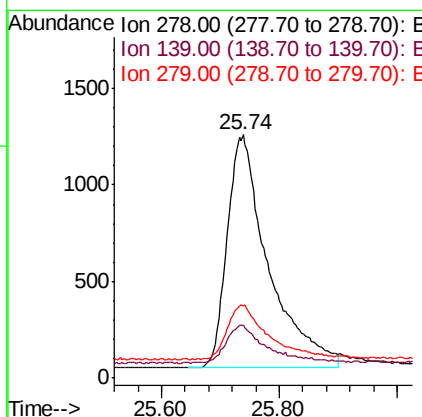
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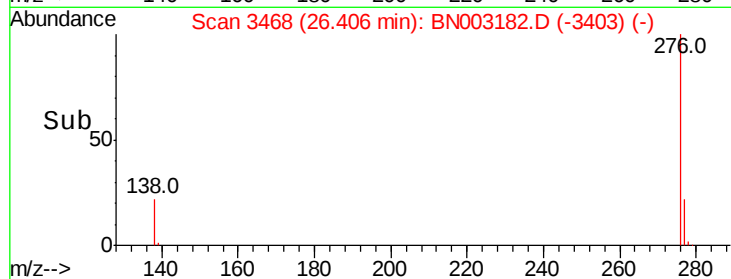
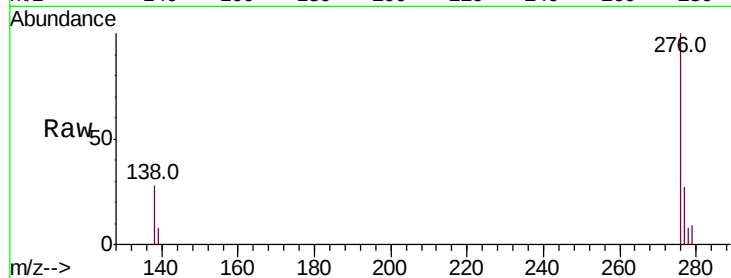
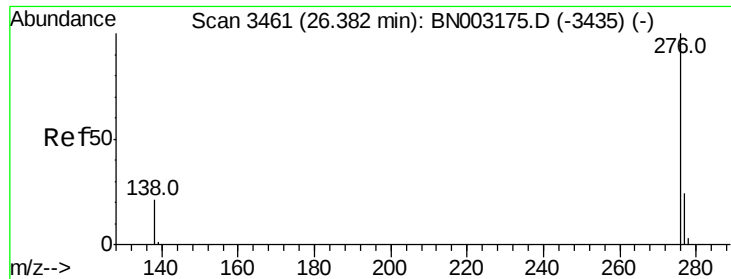
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10/18/2018 4:40:52 PM



#38  
Dibenzo(a,h)anthracene  
Concen: 0.241 ng  
RT: 25.74 min Scan# 3273  
Delta R.T. 0.04 min  
Lab File: BN003182.D  
Acq: 17 Oct 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 21.9  | 14.6  | 21.8  |
| 279     | 29.6  | 23.1  | 34.7  |





#39

Benzo(a,h,i)perylene

Concen: 0.251 ng

RT: 26.41 min Scan# 3468

Delta R.T. 0.02 min

Lab File: BN003182.D

Acq: 17 Oct 2018 16:32

Instrument :

BNA\_N

ClientSampled :

PB113776BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 6156  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 26.9  | 21.0  | 31.4  |
| 138       | 27.5  | 18.1  | 27.1# |

Manual Integrations  
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