

Data Path : U:\HPCHEM1\BNA F\DATA\BF011818\  
 Data File : BF102200.D  
 Acq On : 18 Jan 2018 19:13  
 Operator : SJ/JU  
 Sample : J1168-08 2X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-57-0-2.0-DUP

Manual Integrations  
 APPROVED

Sohil  
 1/19/2018 9:47:32 AM

Quant Time: Jan 19 01:23:23 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 17 15:28:18 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.72  | 152  | 164026   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.00  | 136  | 647923   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.76  | 164  | 277243   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.24 | 188  | 425207   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 13.87 | 240  | 281713   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12               | 15.29 | 264  | 263277   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.32  | 112  | 510956   | 43.99 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.35  | 99   | 611433   | 44.12 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.28  | 82   | 368715   | 33.44 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.54 | 330  | 115800   | 47.86 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.08  | 172  | 680006   | 38.32 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.82 | 244  | 457083   | 33.69 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 49) Dimethylphthalate          | 9.47  | 163  | 89539    | 4.026 | ng    | 99       |
| 70) Phenanthrene               | 11.26 | 178  | 90886    | 3.659 | ng    | 98       |
| 74) Fluoranthene               | 12.44 | 202  | 163307   | 6.683 | ng    | 97       |
| 77) Pyrene                     | 12.67 | 202  | 147755   | 5.934 | ng    | 98       |
| 80) Benzo(a)anthracene         | 13.86 | 228  | 74063    | 4.121 | ng    | 97       |
| 82) Chrysene                   | 13.89 | 228  | 69056    | 3.685 | ng    | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 13.86 | 149  | 30560    | 2.331 | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.66 | 276  | 34488    | 2.528 | ng    | 98       |
| 87) Benzo(b)fluoranthene       | 14.88 | 252  | 89507m   | 5.214 | ng    |          |
| 88) Benzo(k)fluoranthene       | 14.90 | 252  | 33146m   | 2.002 | ng    |          |
| 89) Benzo(a)pyrene             | 15.23 | 252  | 64822    | 4.196 | ng    | # 91     |
| 91) Benzo(a,h,i)perylene       | 17.08 | 276  | 36018    | 2.901 | ng    | 93       |

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

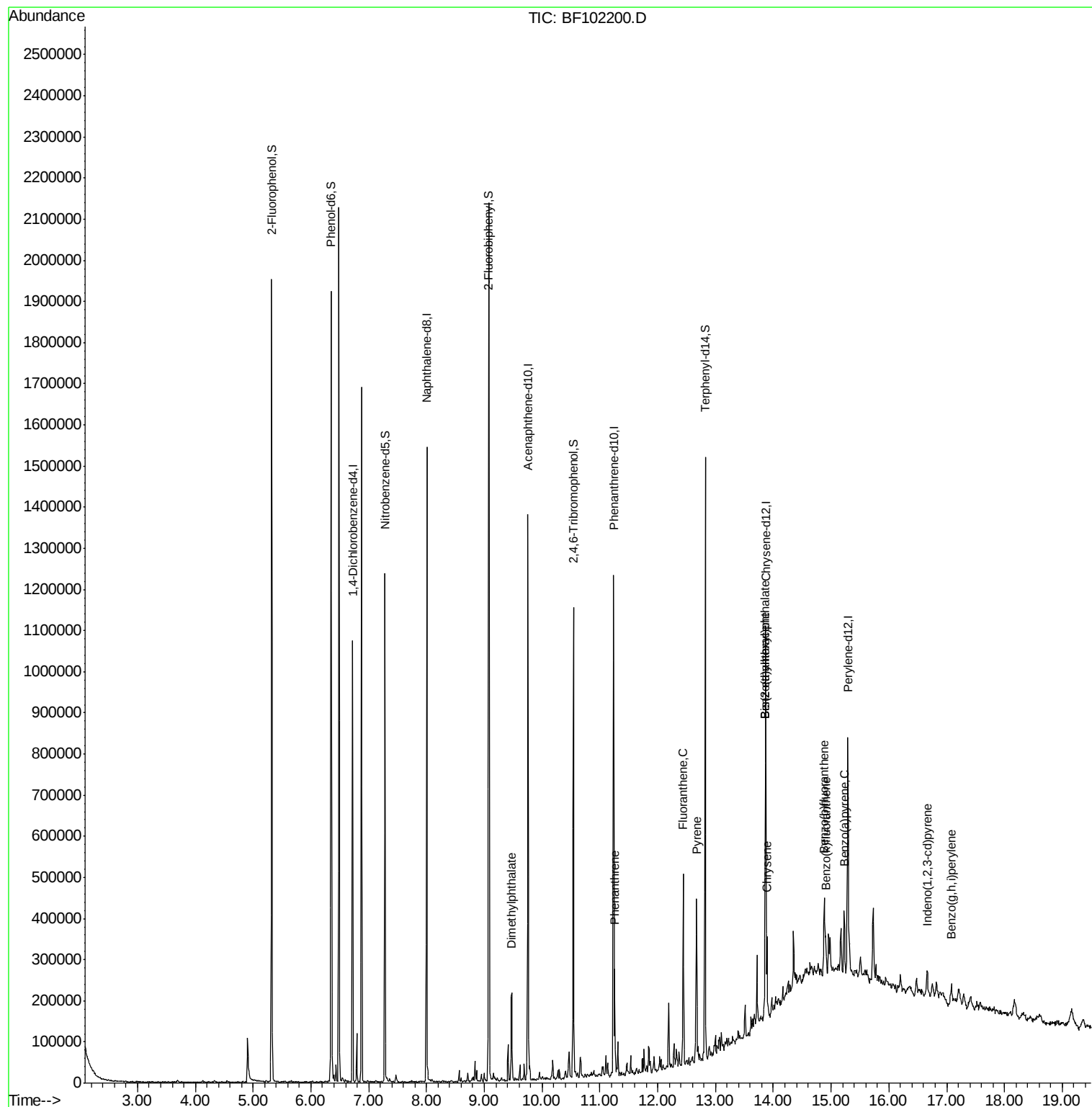
Data Path : U:\HPCHEM1\BNA F\DATA\BF011818\  
Data File : BF102200.D  
Acq On : 18 Jan 2018 19:13  
Operator : SJ/JU  
Sample : J1168-08 2X  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

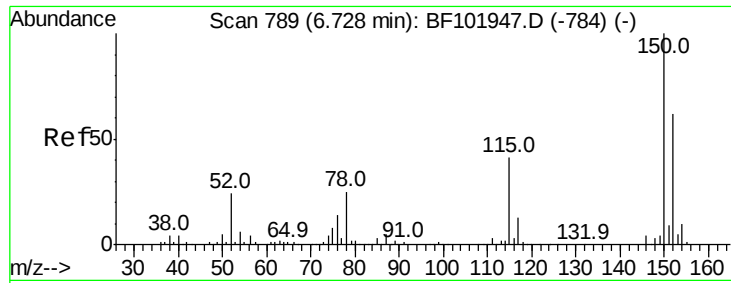
Instrument :  
BNA\_F  
ClientSampleId :  
SB-57-0-2.0-DUP

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1/19/2018 9:47:32 AM

Quant Time: Jan 19 01:23:23 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 17 15:28:18 2018  
Response via : Initial Calibration





#1

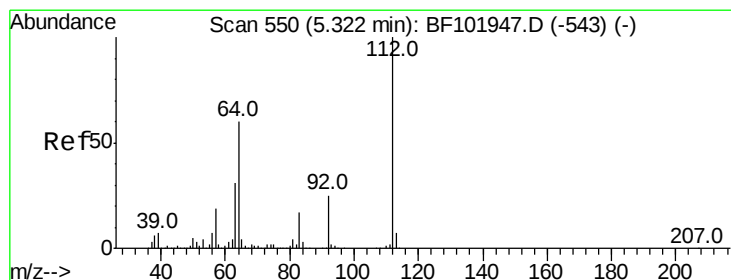
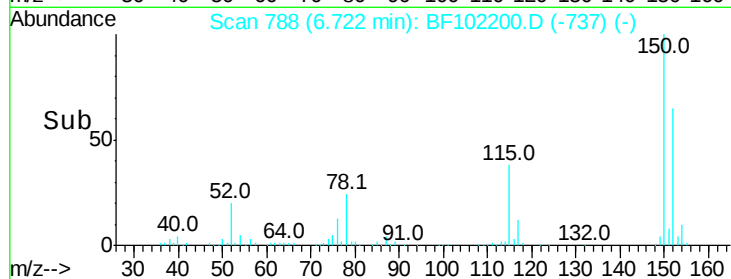
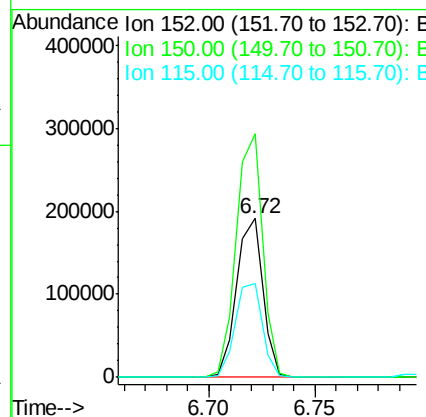
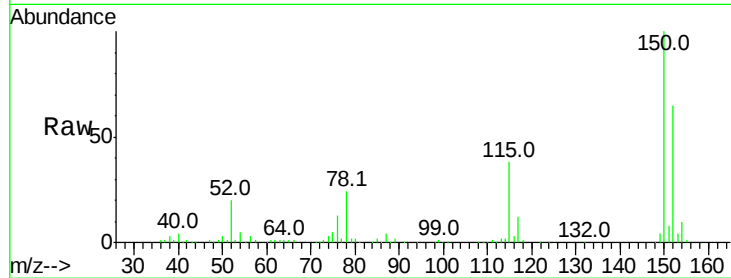
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 788  
Delta R.T. -0.00 min  
Lab File: BF102200.D  
Acq: 18 Jan 2018 19:13

Instrument :  
BNA\_F  
ClientSampleId :  
SB-57-0-2.0-DUP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.1 | 124.6 | 186.8 |
| 115     | 58.7  | 50.1  | 75.1  |

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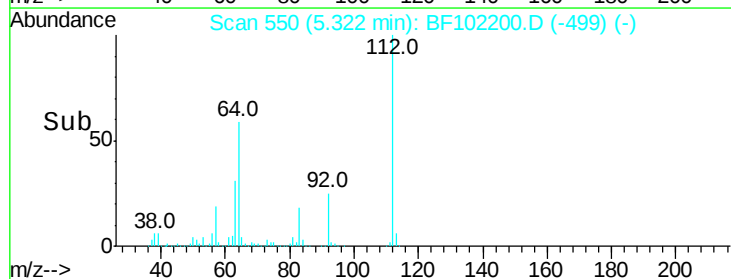
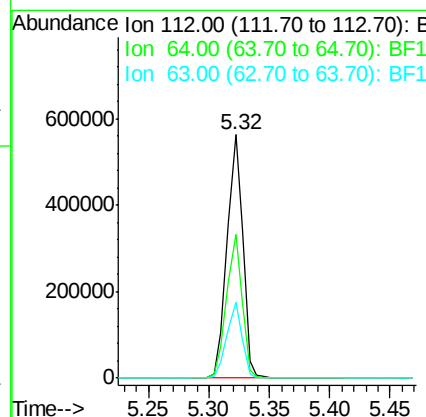
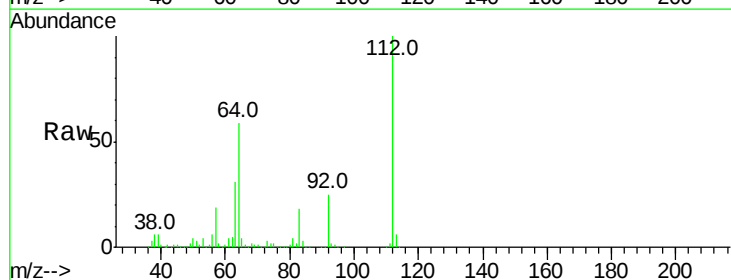
Sohil  
1/19/2018 9:47:32 AM

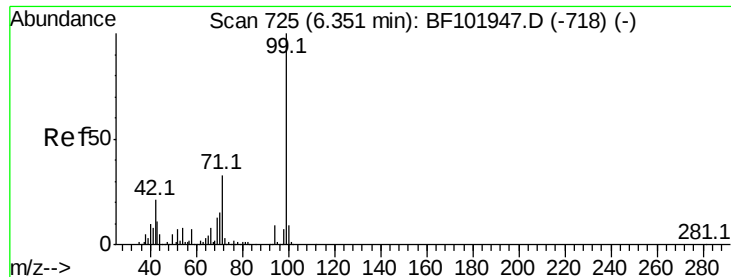


#5

2-Fluorophenol  
Concen: 43.988 ng  
RT: 5.32 min Scan# 550  
Delta R.T. -0.00 min  
Lab File: BF102200.D  
Acq: 18 Jan 2018 19:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.1  | 47.9  | 71.9  |
| 63      | 31.1  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 44.118 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF102200.D

Acq: 18 Jan 2018 19:13

Instrument :

BNA\_F

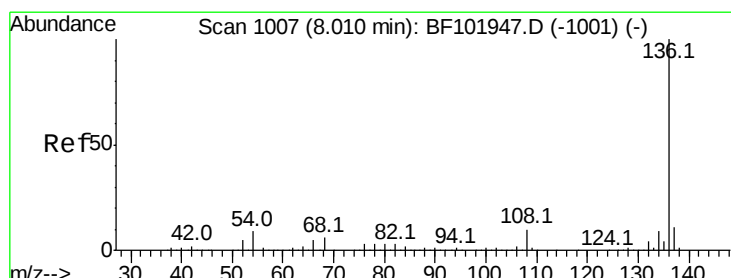
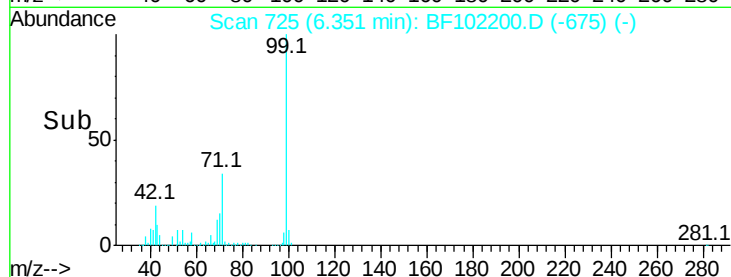
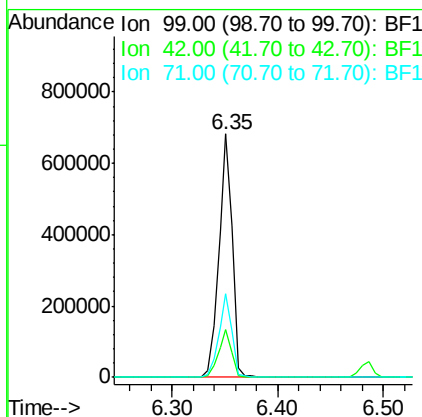
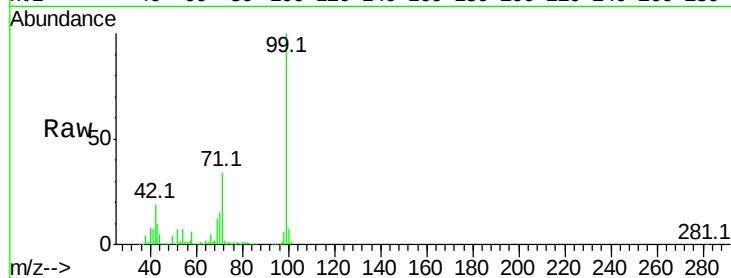
ClientSampleId :

SB-57-0-2.0-DUP

| Tot Ion   | 99    | Resp  | 611433 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.4  | 14.5  | 21.7   |
| 71        | 34.2  | 25.4  | 38.0   |

Manual Integrations  
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#21

Naphthalene-d8

Concen: 20.000 ng

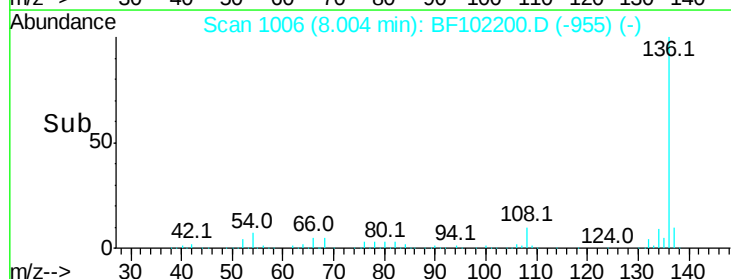
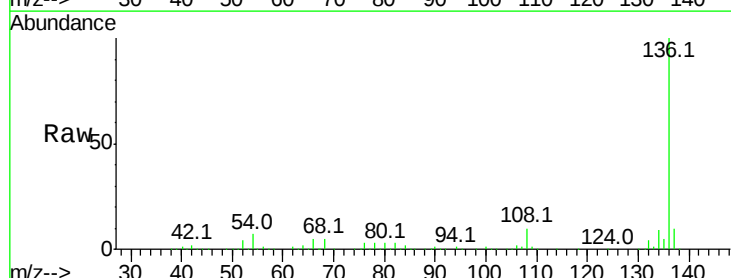
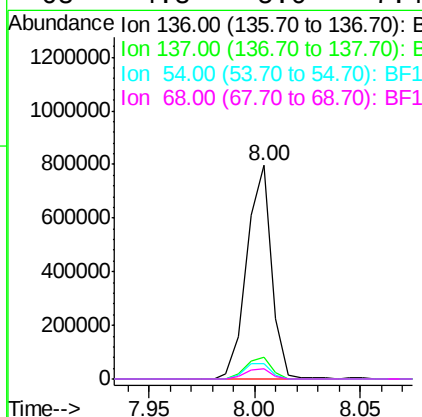
RT: 8.00 min Scan# 1006

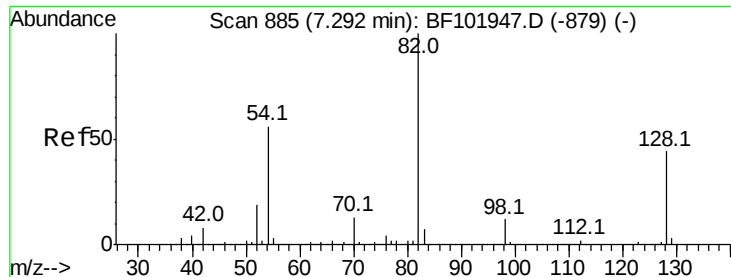
Delta R.T. -0.00 min

Lab File: BF102200.D

Acq: 18 Jan 2018 19:13

| Tgt Ion   | 136   | Resp  | 647923 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.4  | 8.9   | 13.3   |
| 54        | 7.2   | 6.6   | 9.8    |
| 68        | 4.8   | 5.0   | 7.4#   |





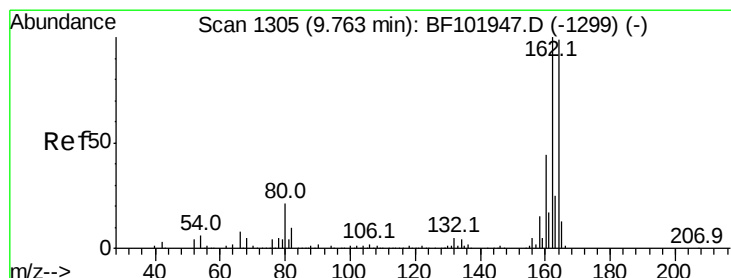
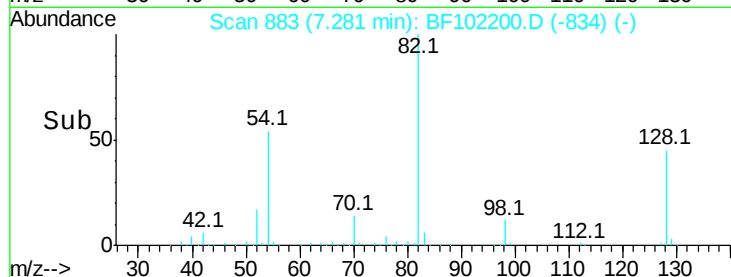
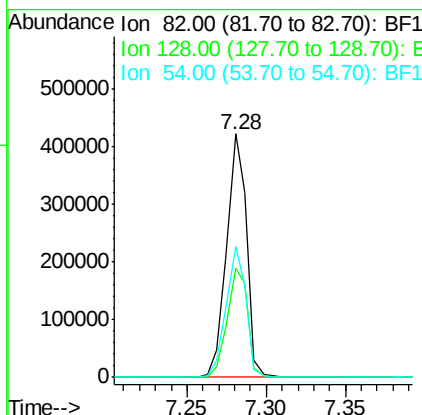
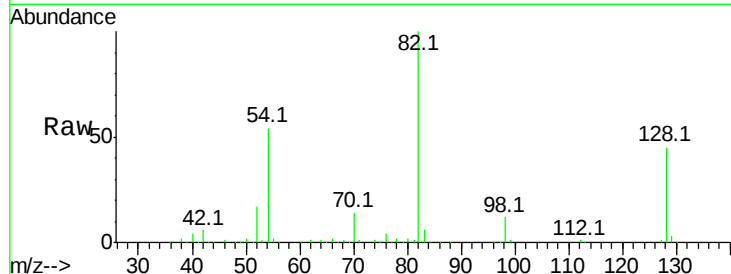
#23  
Nitrobenzene-d5  
Concen: 33.441 ng  
RT: 7.28 min Scan# 883  
Delta R.T. -0.01 min  
Lab File: BF102200.D  
Acq: 18 Jan 2018 19:13

Instrument :  
BNA\_F  
ClientSampleId :  
SB-57-0-2.0-DUP

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 44.6  | 36.1 | 54.1  |       |
| 54      | 54.0  | 41.4 | 62.2  |       |

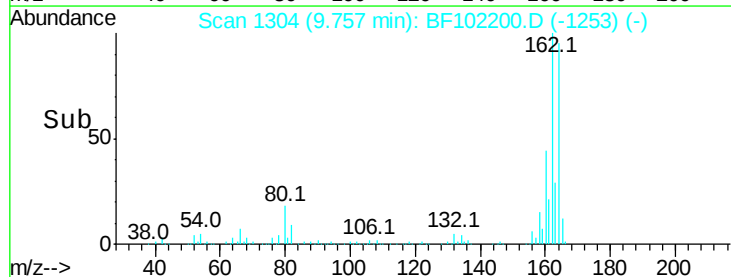
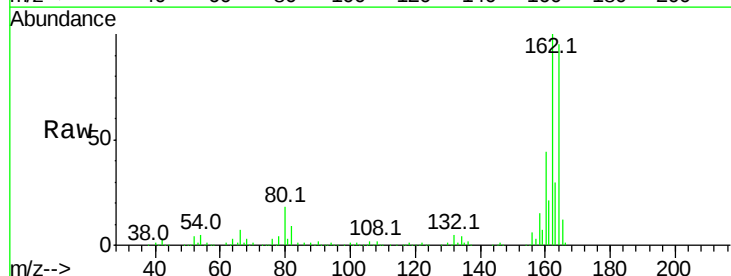
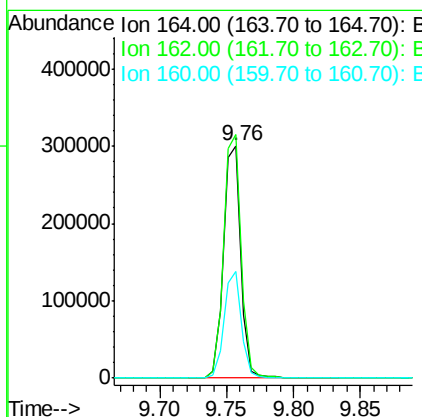
Manual Integrations  
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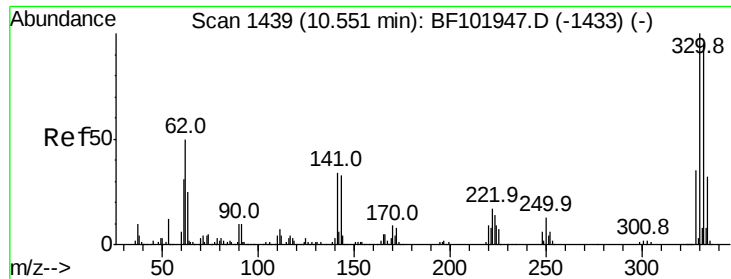
Sohil  
1/19/2018 9:47:32 AM



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1304  
Delta R.T. -0.00 min  
Lab File: BF102200.D  
Acq: 18 Jan 2018 19:13

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 104.7 | 86.1 | 129.1 |       |
| 160     | 46.1  | 38.3 | 57.5  |       |





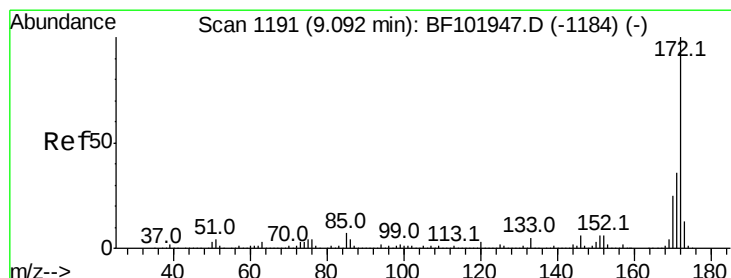
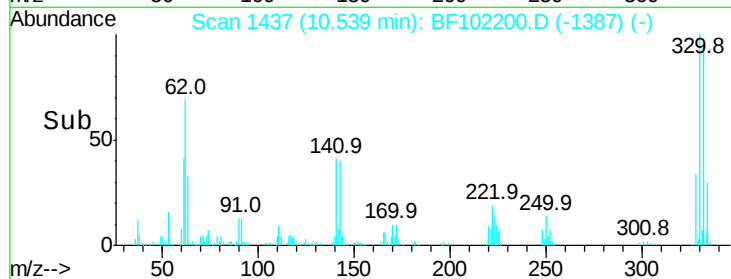
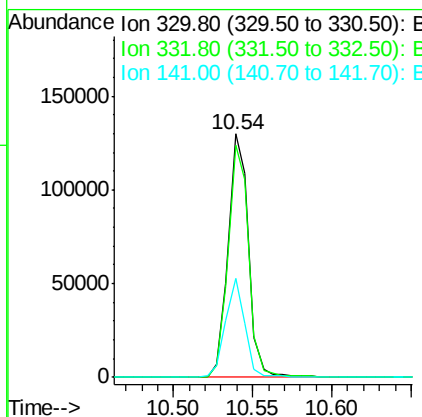
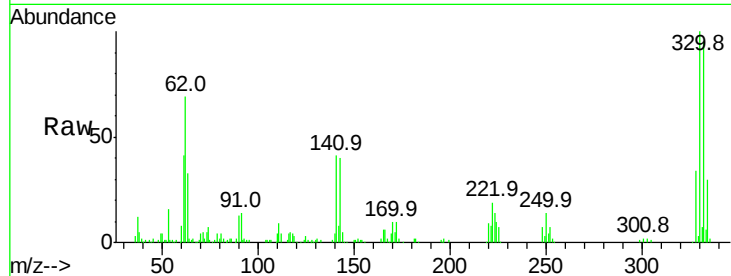
#41  
 2,4,6-Tribromophenol  
 Concen: 47.862 ng  
 RT: 10.54 min Scan# 1437  
 Delta R.T. -0.01 min  
 Lab File: BF102200.D  
 Acq: 18 Jan 2018 19:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-57-0-2.0-DUP

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 96.7  | 77.0 | 115.6 |       |
| 141     | 38.7  | 29.9 | 44.9  |       |

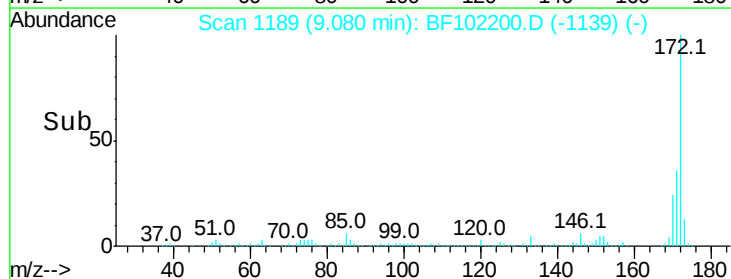
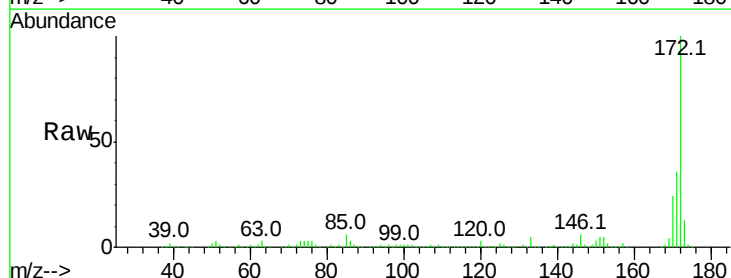
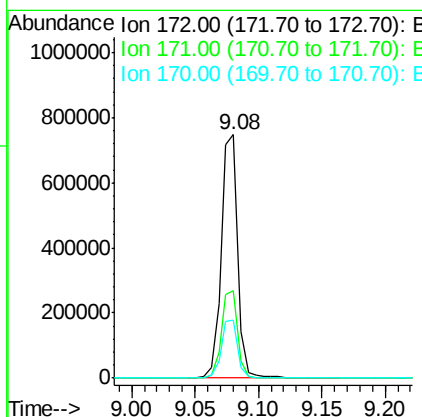
Manual Integrations  
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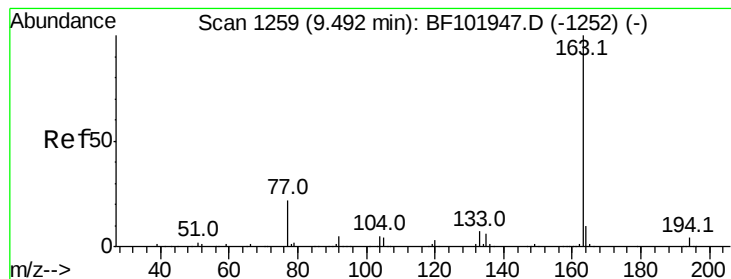
Sohil  
 1/19/2018 9:47:32 AM



#44  
 2-Fluorobiphenyl  
 Concen: 38.319 ng  
 RT: 9.08 min Scan# 1189  
 Delta R.T. -0.01 min  
 Lab File: BF102200.D  
 Acq: 18 Jan 2018 19:13

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 35.7  | 29.7 | 44.5  |       |
| 170     | 24.0  | 19.6 | 29.4  |       |





#49

Dimethylphthalate

Concen: 4.026 ng

RT: 9.47 min Scan# 1256

Delta R.T. -0.01 min

Lab File: BF102200.D

Acq: 18 Jan 2018 19:13

Instrument :

BNA\_F

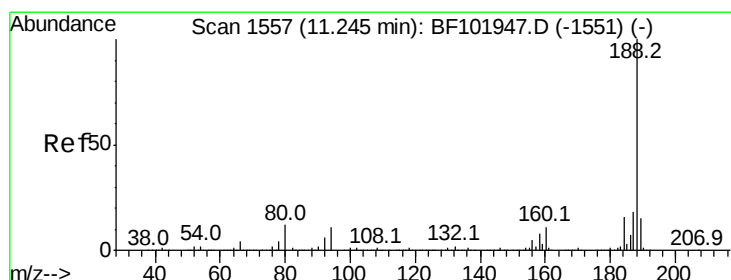
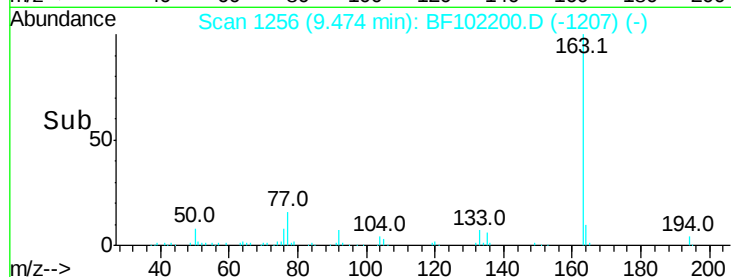
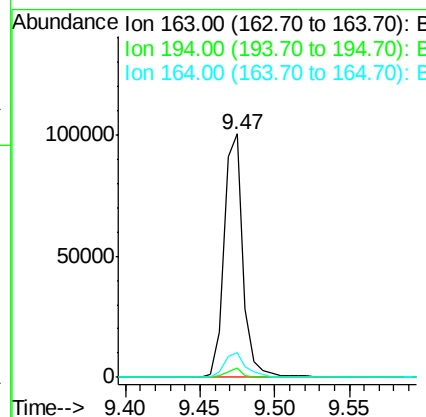
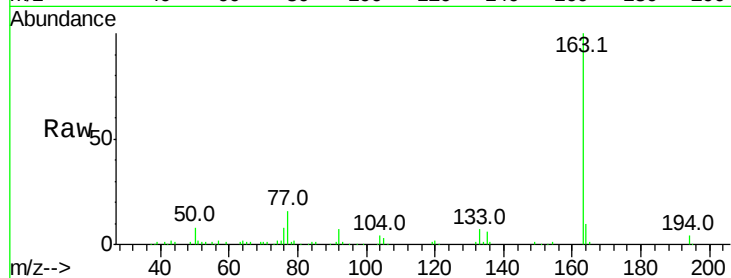
ClientSampled :

SB-57-0-2.0-DUP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 89539 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 4.0   | 2.7   | 4.1   |
| 164       | 10.1  | 8.2   | 12.2  |

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#63

Phenanthrene-d10

Concen: 20.000 ng

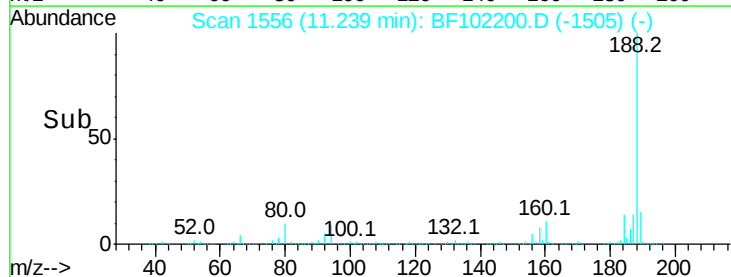
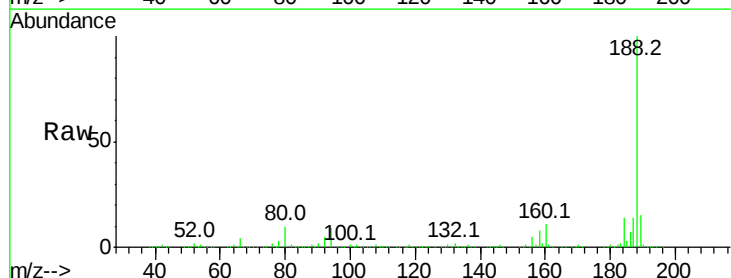
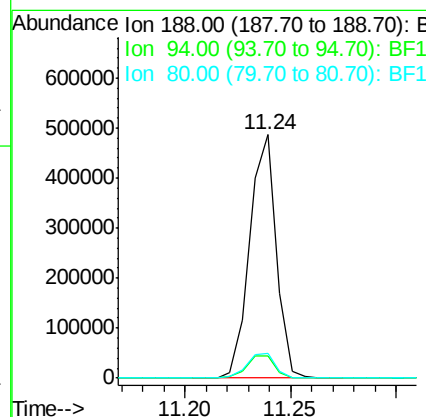
RT: 11.24 min Scan# 1556

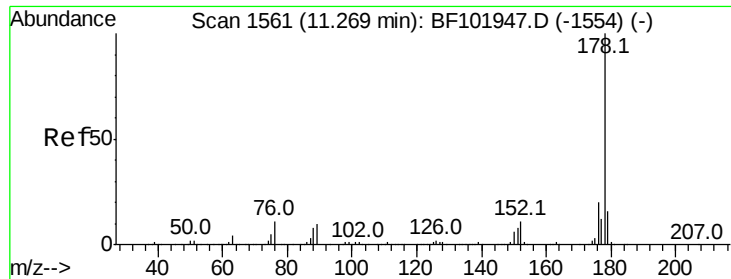
Delta R.T. -0.00 min

Lab File: BF102200.D

Acq: 18 Jan 2018 19:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 425207 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.2   | 8.5   | 12.7   |
| 80        | 10.1  | 9.2   | 13.8   |





#70

Phenanthrene

Concen: 3.659 ng

RT: 11.26 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BF102200.D

Acq: 18 Jan 2018 19:13

Instrument :

BNA\_F

ClientSampleId :

SB-57-0-2.0-DUP

Tot Ion:178 Resp: 90886

Ion Ratio Lower Upper

178 100

176 18.5 15.8 23.8

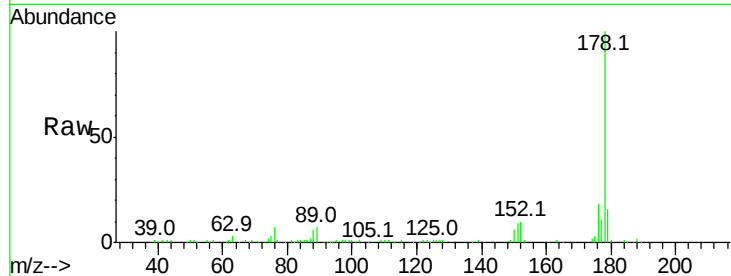
179 15.8 13.0 19.6

Manual Integrations

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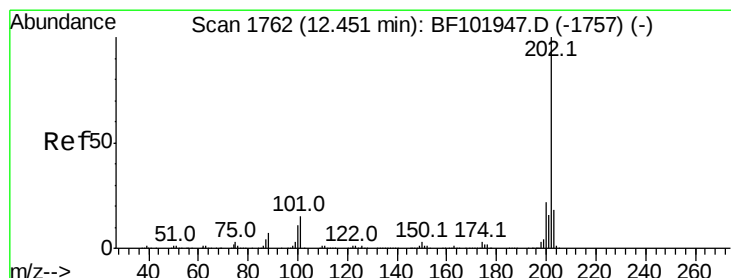
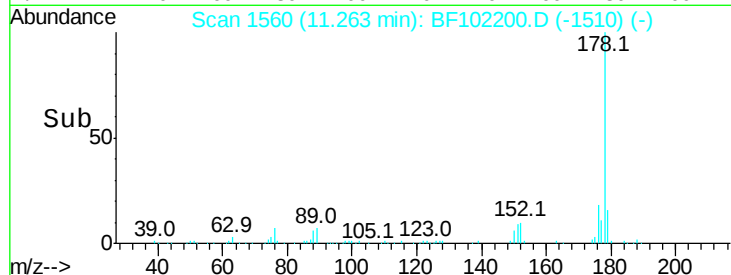
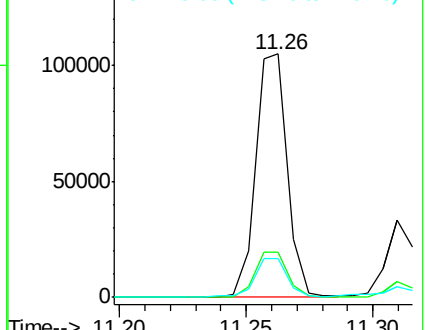
1/19/2018 9:47:32 AM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 6.683 ng

RT: 12.44 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF102200.D

Acq: 18 Jan 2018 19:13

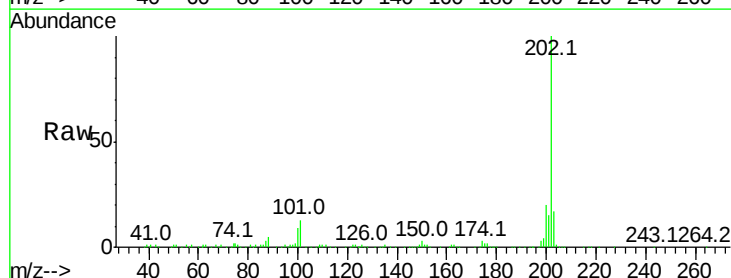
Tgt Ion:202 Resp: 163307

Ion Ratio Lower Upper

202 100

101 12.8 0.0 34.1

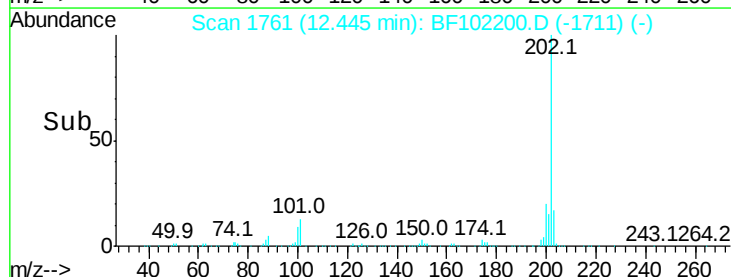
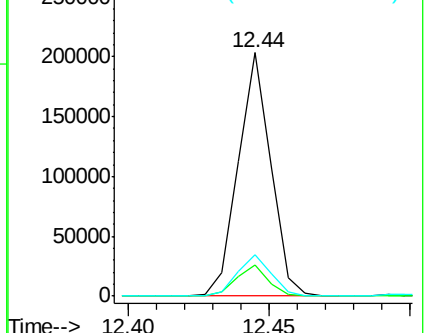
203 16.9 0.0 38.1

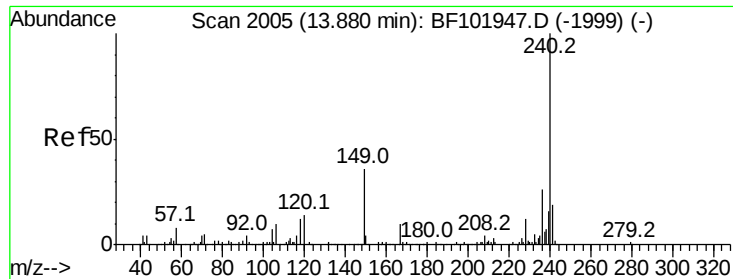


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BF102200.D

Acq: 18 Jan 2018 19:13

Instrument :

BNA\_F

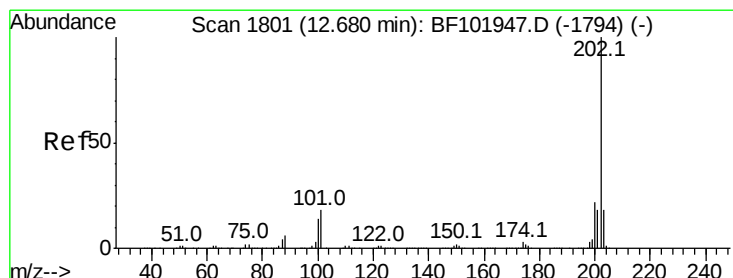
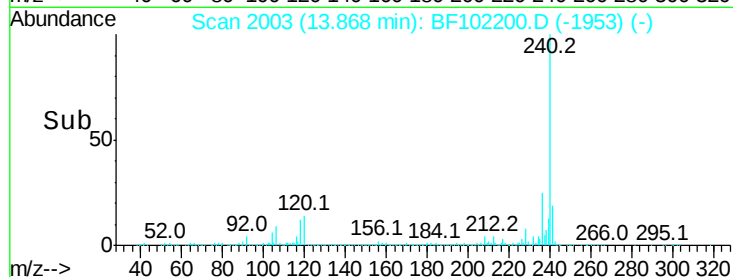
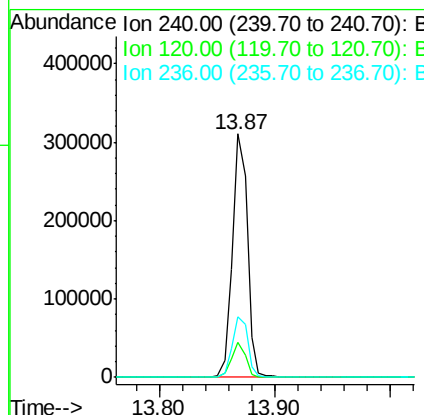
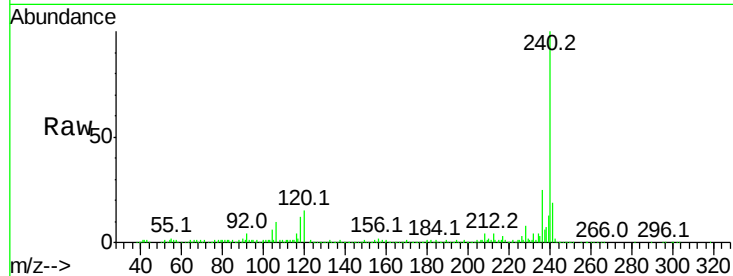
ClientSampleId :

SB-57-0-2.0-DUP

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 240     | 100   |      |       |       |
| 120     | 14.6  | 9.5  | 14.3# |       |
| 236     | 25.0  | 20.7 | 31.1  |       |

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#77

Pyrene

Concen: 5.934 ng

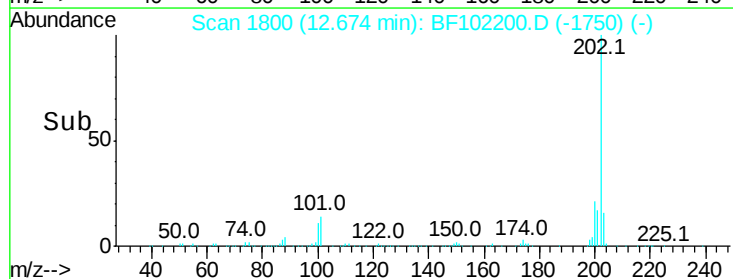
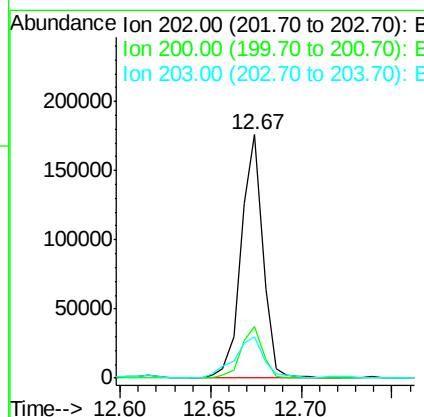
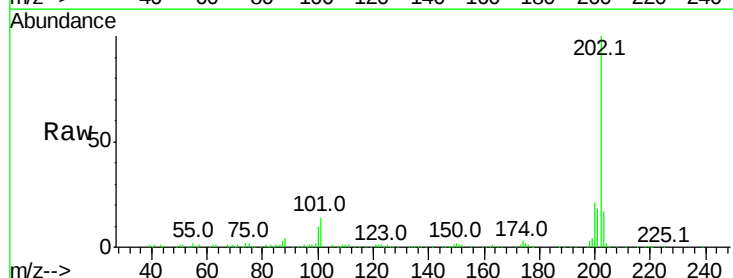
RT: 12.67 min Scan# 1800

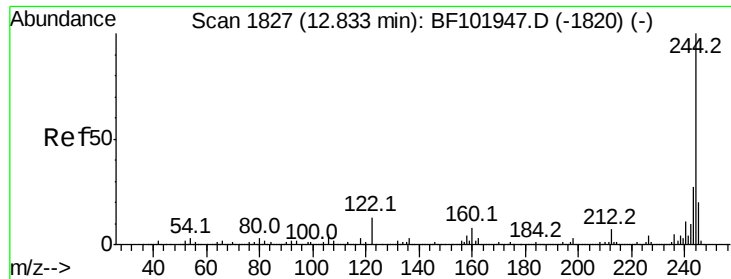
Delta R.T. -0.01 min

Lab File: BF102200.D

Acq: 18 Jan 2018 19:13

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 200     | 21.1  | 17.4 | 26.2  |       |
| 203     | 16.9  | 14.3 | 21.5  |       |





#78

Terphenyl-d14

Concen: 33.688 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF102200.D

Acq: 18 Jan 2018 19:13

Instrument :

BNA\_F

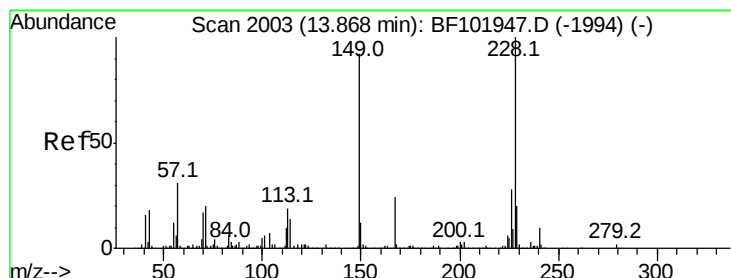
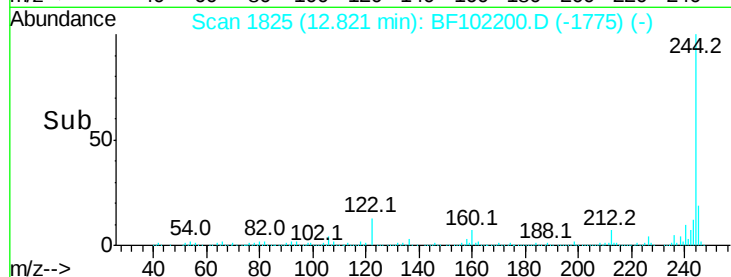
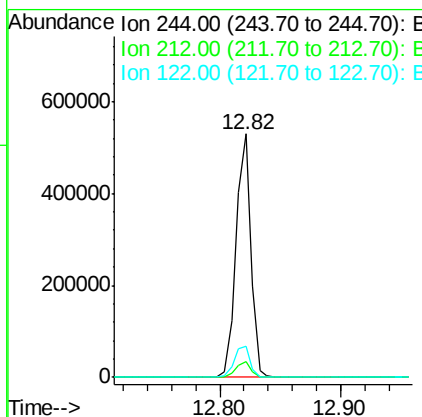
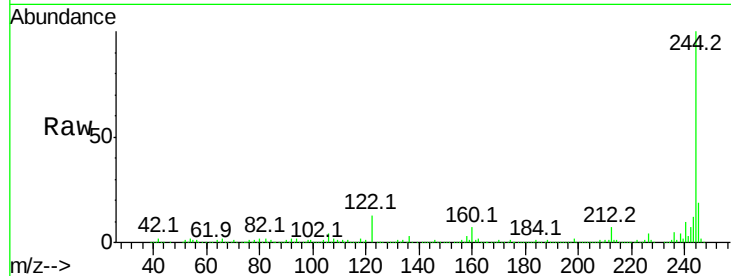
ClientSampleId :

SB-57-0-2.0-DUP

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 244   | Resp: | 457083 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.5   | 5.4   | 8.0    |
| 122       | 12.6  | 11.0  | 16.4   |

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#80

Benzo(a)anthracene

Concen: 4.121 ng

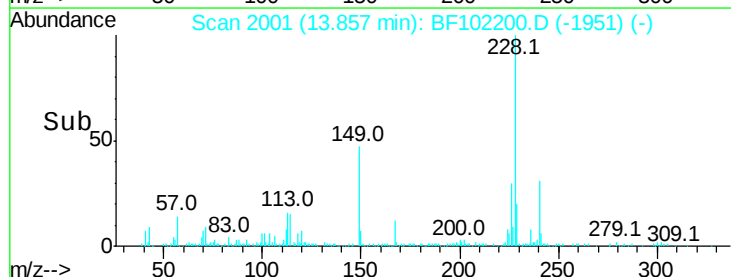
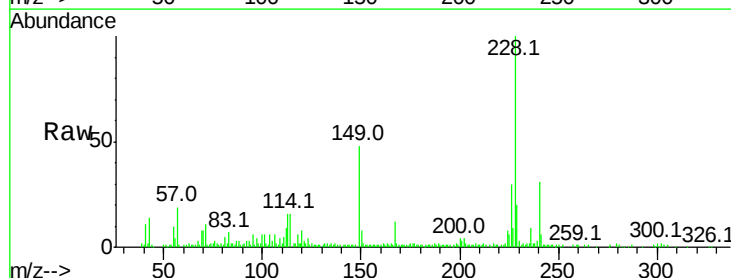
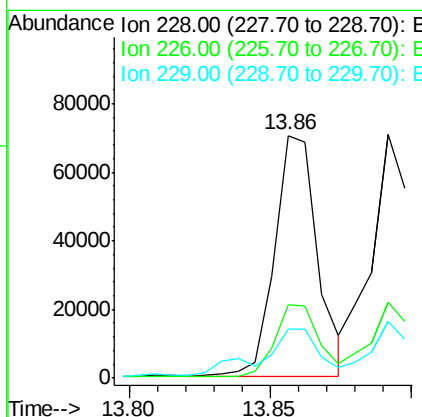
RT: 13.86 min Scan# 2001

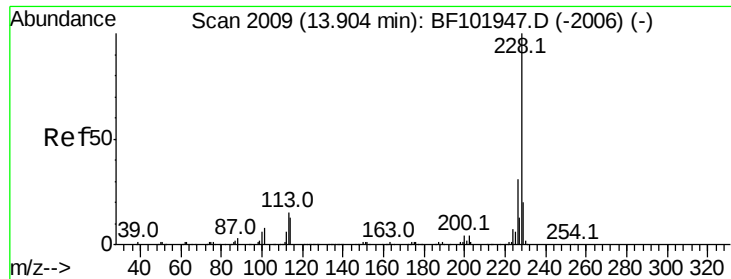
Delta R.T. -0.01 min

Lab File: BF102200.D

Acq: 18 Jan 2018 19:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 74063 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.2  | 22.6  | 33.8  |
| 229       | 20.4  | 15.8  | 23.6  |





#82

Chrysene

Concen: 3.685 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF102200.D

Acq: 18 Jan 2018 19:13

Instrument :

BNA\_F

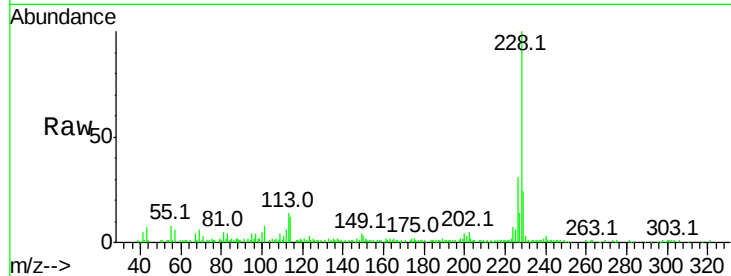
ClientSampleId :

SB-57-0-2.0-DUP

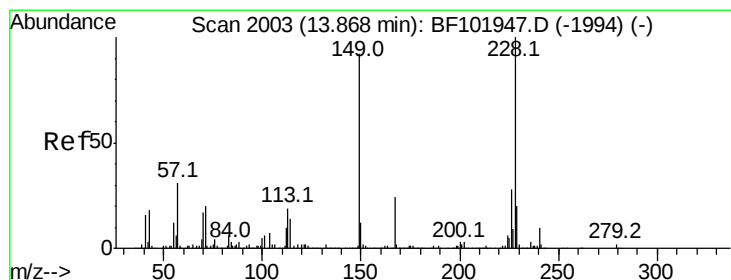
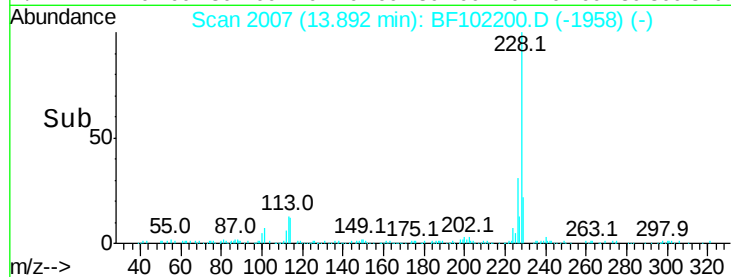
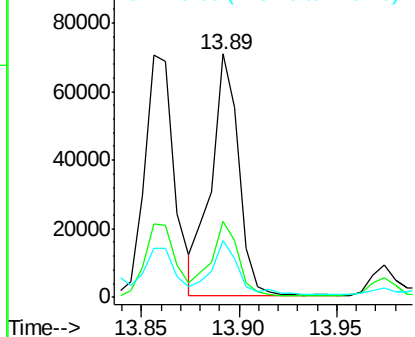
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 69056 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.1  | 25.0  | 37.6  |
| 229       | 23.5  | 16.2  | 24.4  |

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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



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.331 ng

RT: 13.86 min Scan# 2001

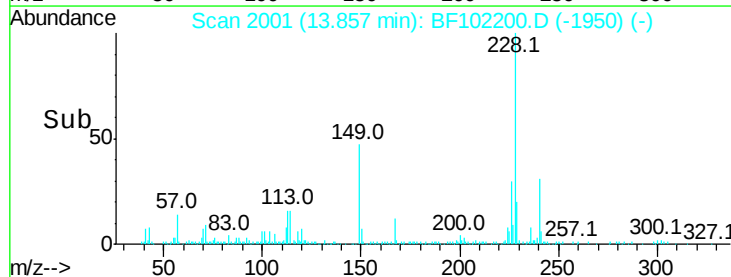
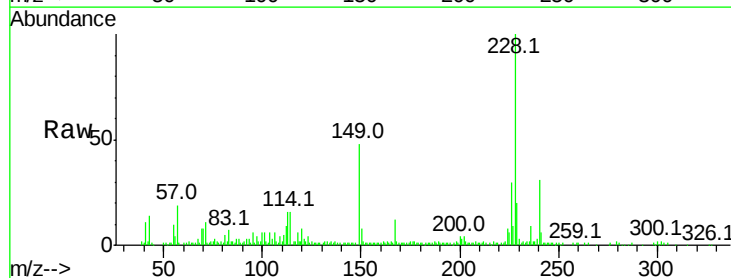
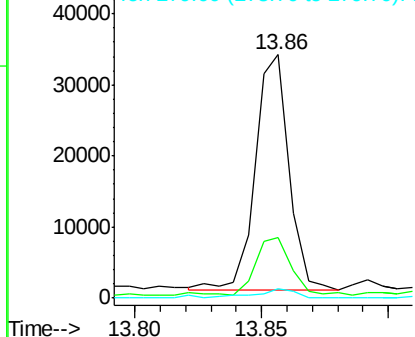
Delta R.T. -0.00 min

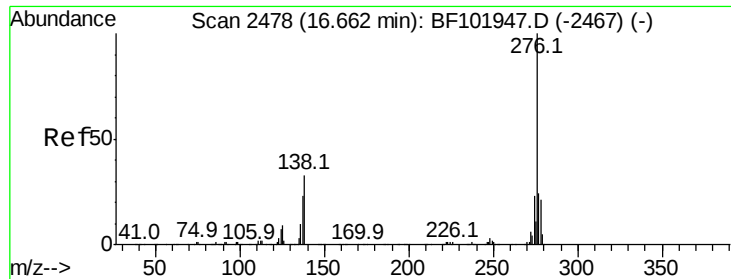
Lab File: BF102200.D

Acq: 18 Jan 2018 19:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 30560 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 25.1  | 21.3  | 31.9  |
| 279       | 3.8   | 3.0   | 4.4   |

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





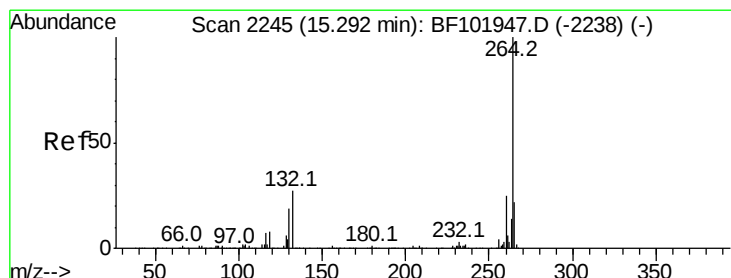
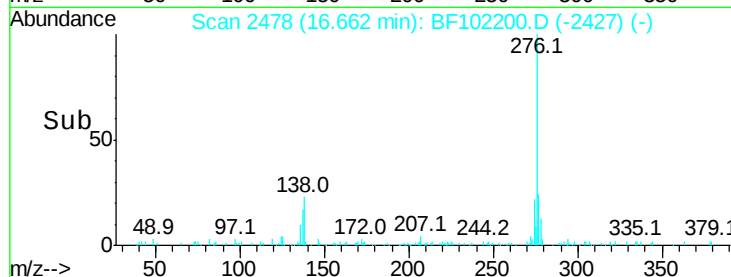
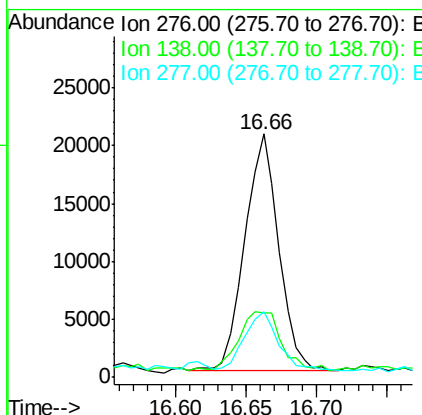
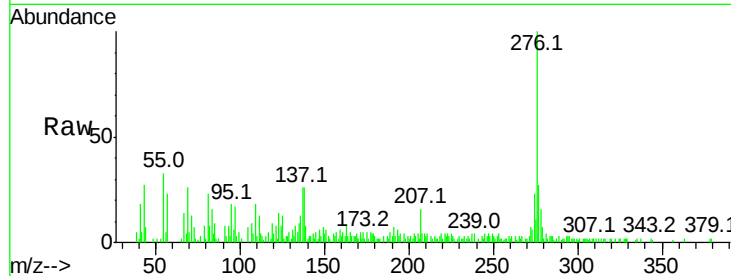
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.528 ng  
 RT: 16.66 min Scan# 2478  
 Delta R.T. -0.00 min  
 Lab File: BF102200.D  
 Acq: 18 Jan 2018 19:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-57-0-2.0-DUP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 29.6  | 25.0  | 37.6  |
| 277     | 25.0  | 20.1  | 30.1  |

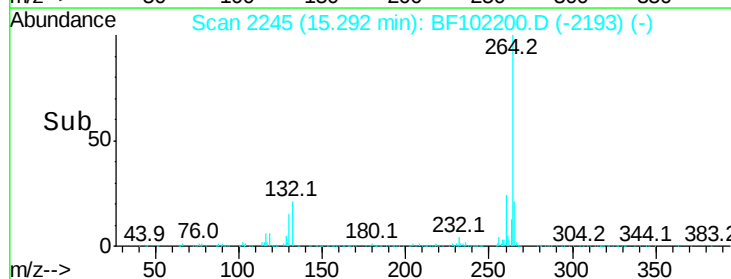
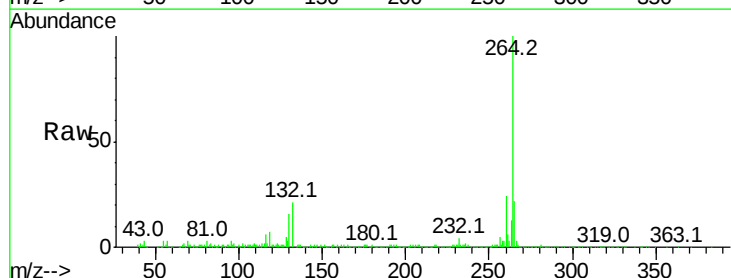
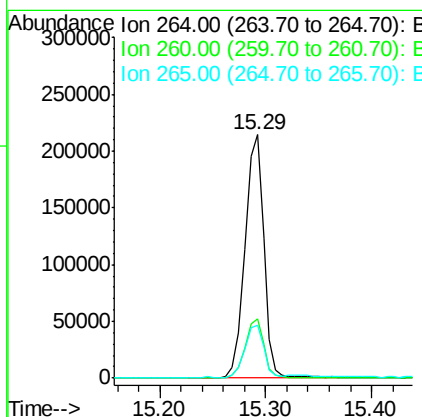
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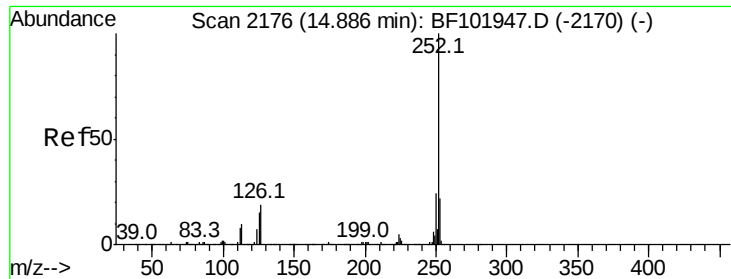
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#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.29 min Scan# 2245  
 Delta R.T. 0.01 min  
 Lab File: BF102200.D  
 Acq: 18 Jan 2018 19:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 19.2  | 28.8  |
| 265     | 21.6  | 17.5  | 26.3  |





#87

Benzo(b)fluoranthene

Concen: 5.214 ng m

RT: 14.88 min Scan# 2175

Delta R.T. -0.01 min

Lab File: BF102200.D

Acq: 18 Jan 2018 19:13

Instrument :

BNA\_F

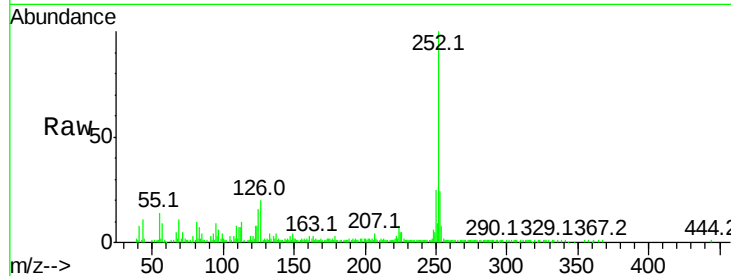
ClientSampleId :

SB-57-0-2.0-DUP

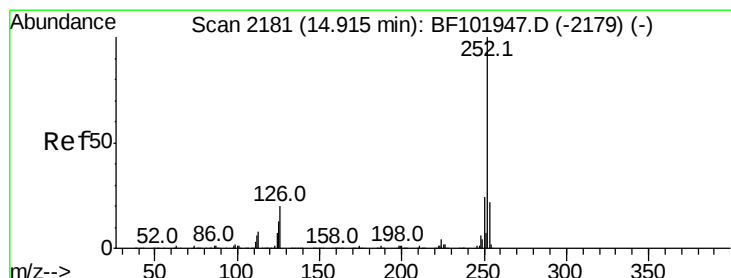
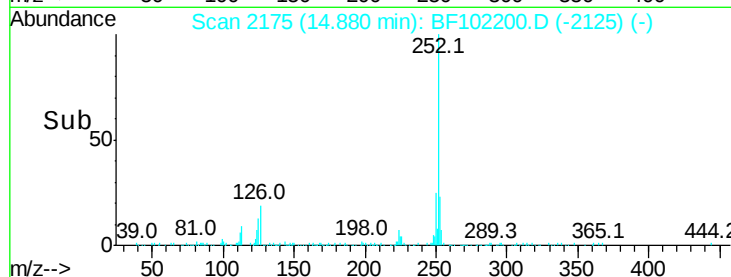
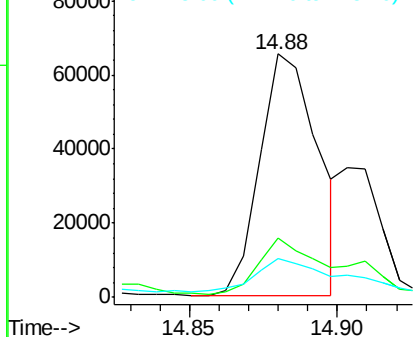
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 89507 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.3  | 17.0  | 25.6  |
| 125       | 15.7  | 9.0   | 13.6# |

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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



#88

Benzo(k)fluoranthene

Concen: 2.002 ng m

RT: 14.90 min Scan# 2179

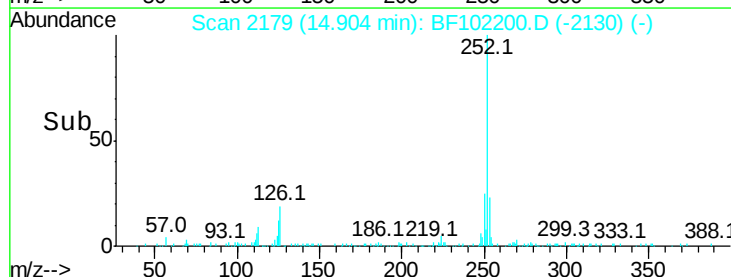
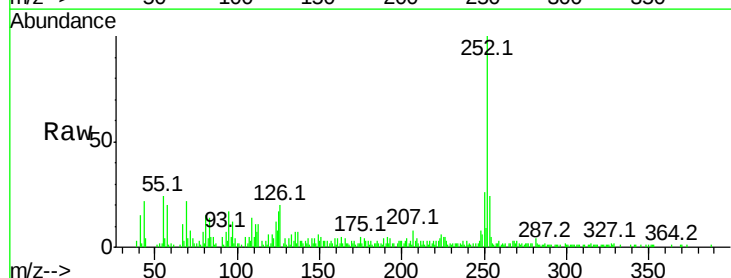
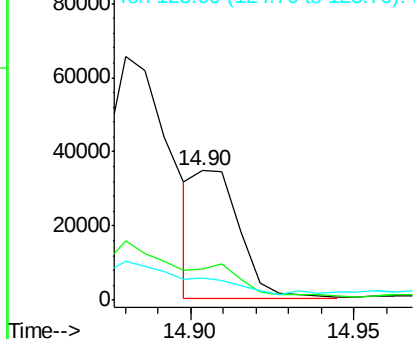
Delta R.T. -0.01 min

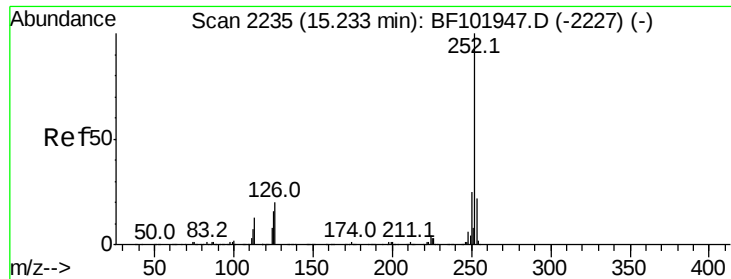
Lab File: BF102200.D

Acq: 18 Jan 2018 19:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 33146 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.5  | 17.9  | 26.9  |
| 125       | 17.0  | 10.2  | 15.2# |

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





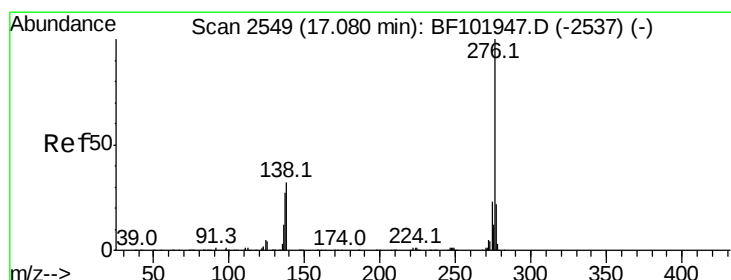
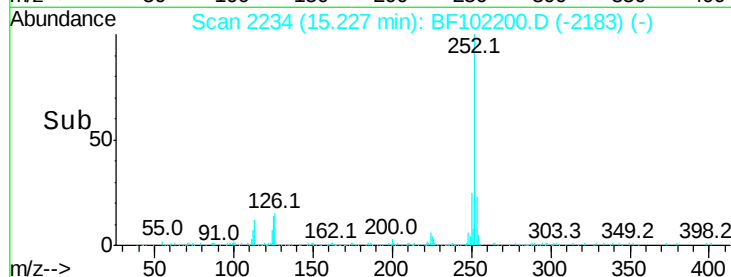
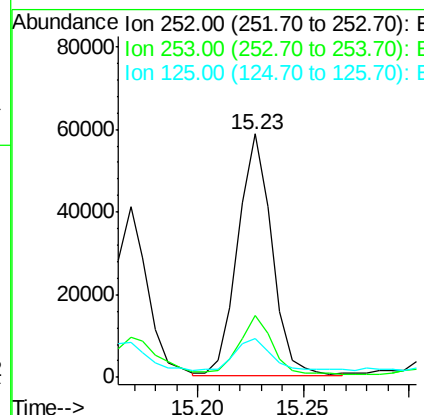
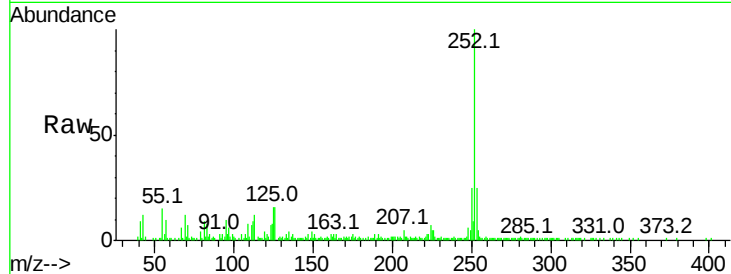
#89  
Benzo(a)pyrene  
Concen: 4.196 ng  
RT: 15.23 min Scan# 2234  
Delta R.T. -0.00 min  
Lab File: BF102200.D  
Acq: 18 Jan 2018 19:13

Instrument :  
BNA\_F  
ClientSampleId :  
SB-57-0-2.0-DUP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 17.1  | 25.7  |
| 125     | 16.1  | 9.8   | 14.6  |

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#91  
Benzo(g,h,i)perylene  
Concen: 2.901 ng  
RT: 17.08 min Scan# 2549  
Delta R.T. -0.00 min  
Lab File: BF102200.D  
Acq: 18 Jan 2018 19:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.6  | 17.9  | 26.9  |
| 138     | 32.2  | 21.8  | 32.8  |

