

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\  
 Data File : BF110104.D  
 Acq On : 24 Oct 2018 10:19  
 Operator : JU/SJ  
 Sample : J5610-08  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4(8-10)

Manual Integrations  
 APPROVED

Sohil  
 10/25/2018 11:14:01 AM

Quant Time: Oct 25 02:35:00 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 23 15:06:18 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.96  | 152  | 156955   | 20.00 | ng    | -0.02       |
| 21) Naphthalene-d8             | 8.25  | 136  | 602760   | 20.00 | ng    | -0.02       |
| 39) Acenaphthene-d10           | 10.00 | 164  | 261404   | 20.00 | ng    | -0.02       |
| 64) Phenanthrene-d10           | 11.50 | 188  | 401601   | 20.00 | ng    | -0.02       |
| 76) Chrysene-d12               | 14.14 | 240  | 298211   | 20.00 | ng    | -0.02       |
| 87) Perylene-d12               | 15.66 | 264  | 314831   | 20.00 | ng    | -0.03       |
| System Monitoring Compounds    |       |      |          |       |       |             |
| 5) 2-Fluorophenol              | 5.59  | 112  | 866964   | 89.95 | ng    | -0.01       |
| 7) Phenol-d6                   | 6.59  | 99   | 1054503  | 85.54 | ng    | -0.02       |
| 23) Nitrobenzene-d5            | 7.53  | 82   | 664294   | 65.37 | ng    | -0.02       |
| 42) 2,4,6-Tribromophenol       | 10.80 | 330  | 204396   | 78.94 | ng    | -0.02       |
| 45) 2-Fluorobiphenyl           | 9.32  | 172  | 1001117  | 60.14 | ng    | -0.02       |
| 79) Terphenyl-d14              | 13.08 | 244  | 643942   | 44.91 | ng    | -0.02       |
| Target Compounds               |       |      |          |       |       |             |
| 10) Phenol                     | 6.59  | 94   | 94766    | 7.191 | ng    | Qvalue # 73 |
| 50) Dimethylphthalate          | 9.71  | 163  | 173165   | 8.974 | ng    | 98          |
| 71) Phenanthrene               | 11.52 | 178  | 104218   | 4.960 | ng    | 97          |
| 75) Fluoranthene               | 12.71 | 202  | 104852   | 4.917 | ng    | 100         |
| 78) Pyrene                     | 12.94 | 202  | 118391   | 5.538 | ng    | 96          |
| 81) Benzo(a)anthracene         | 14.13 | 228  | 63725    | 3.603 | ng    | 97          |
| 83) Chrysene                   | 14.17 | 228  | 61229    | 3.645 | ng    | 96          |
| 84) Bis(2-ethylhexyl)phthalate | 14.10 | 149  | 45560    | 3.632 | ng    | 96          |
| 86) Indeno(1,2,3-cd)pyrene     | 17.21 | 276  | 35456    | 2.544 | ng    | # 93        |
| 88) Benzo(b)fluoranthene       | 15.21 | 252  | 70990m   | 3.905 | ng    |             |
| 90) Benzo(a)pyrene             | 15.59 | 252  | 53752    | 3.213 | ng    | # 94        |
| 92) Benzo(a,h,i)perylene       | 17.68 | 276  | 34131    | 2.400 | ng    | # 88        |

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

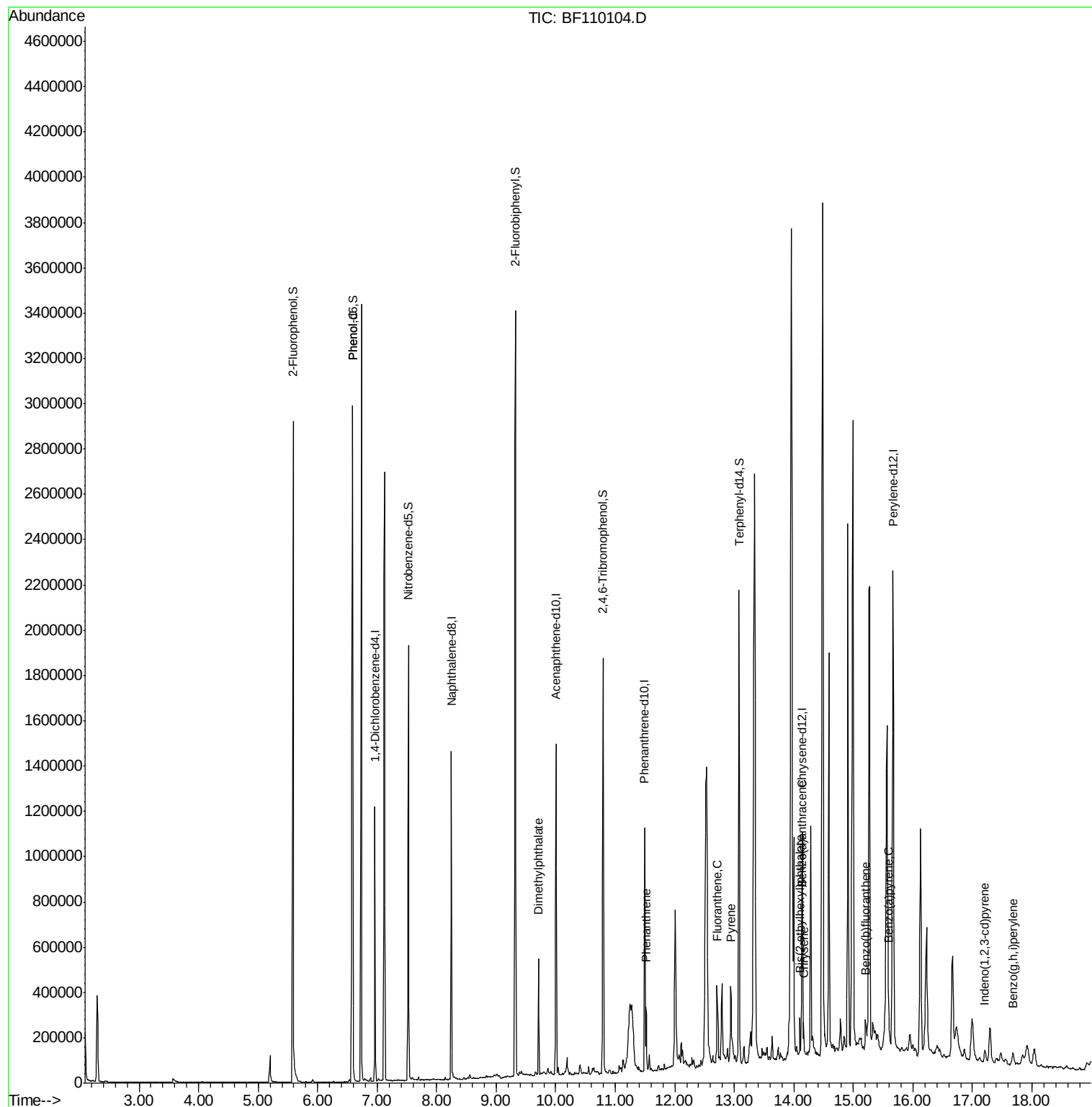
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\  
Data File : BF110104.D  
Acq On : 24 Oct 2018 10:19  
Operator : JU/SJ  
Sample : J5610-08  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

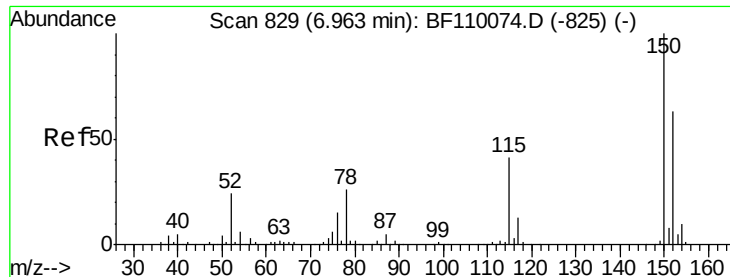
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(8-10)

Manual Integrations  
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10/25/2018 11:14:01 AM

Quant Time: Oct 25 02:35:00 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 23 15:06:18 2018  
Response via : Initial Calibration





#1

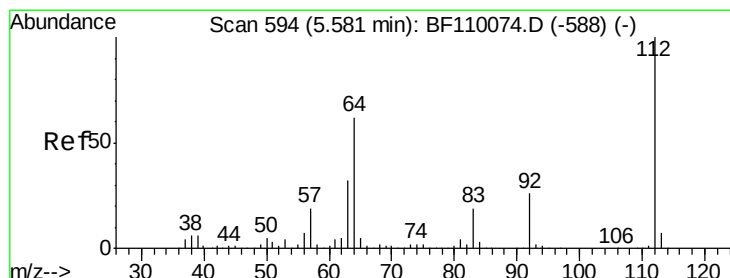
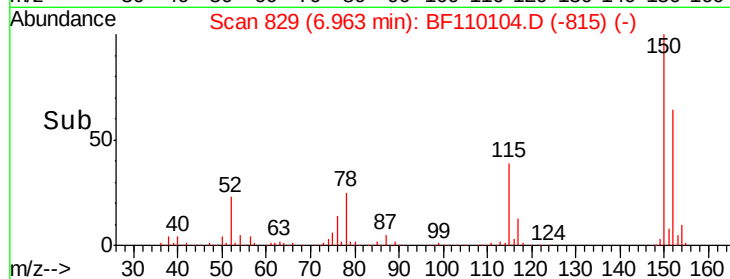
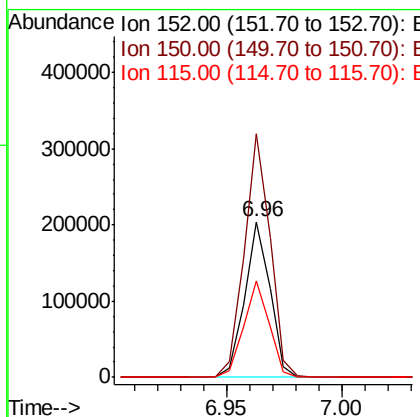
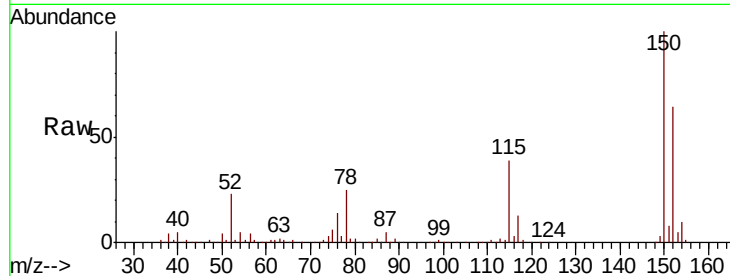
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.96 min Scan# 829  
Delta R.T. -0.02 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(8-10)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.2 | 122.7 | 184.1 |
| 115     | 61.5  | 49.1  | 73.7  |

Manual Integrations  
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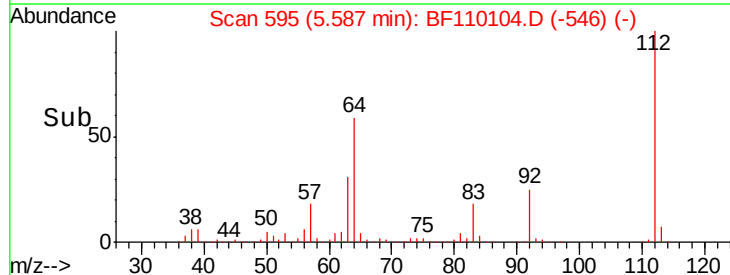
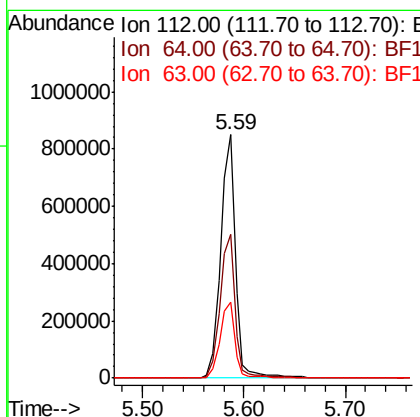
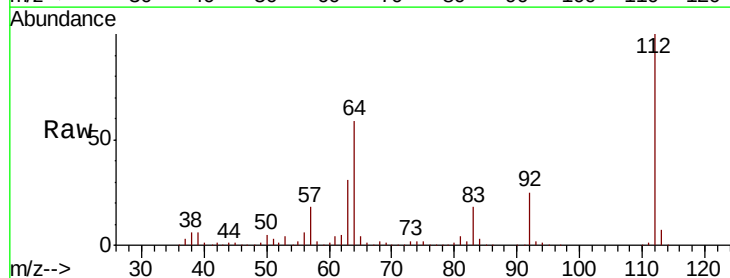
Sohil  
10/25/2018 11:14:01 AM

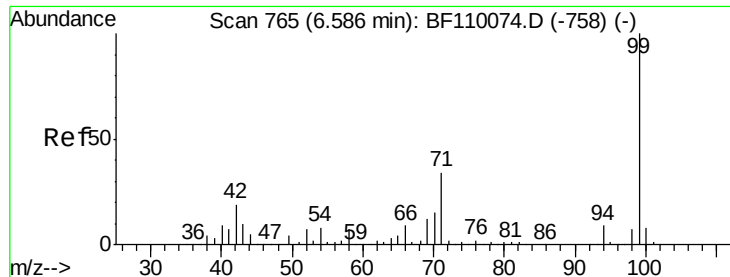


#5

2-Fluorophenol  
Concen: 89.950 ng  
RT: 5.59 min Scan# 595  
Delta R.T. -0.01 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.9  | 44.1  | 66.1  |
| 63      | 31.0  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 85.536 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.02 min

Lab File: BF110104.D

Acq: 24 Oct 2018 10:19

Instrument :

BNA\_F

ClientSampleId :

SB-4(8-10)

Tot Ion: 99 Resp: 1054503

Ion Ratio Lower Upper

99 100

42 18.6 15.8 23.6

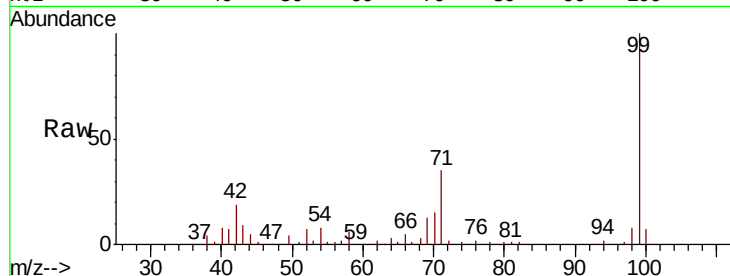
71 34.6 28.0 42.0

Manual Integrations

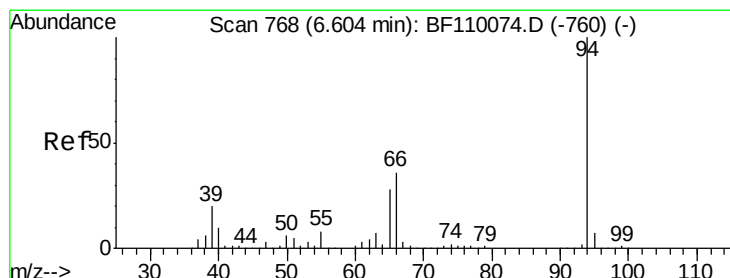
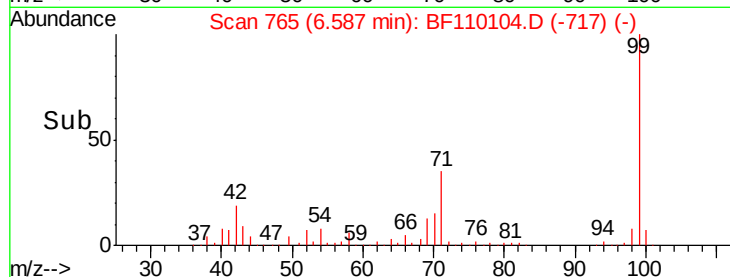
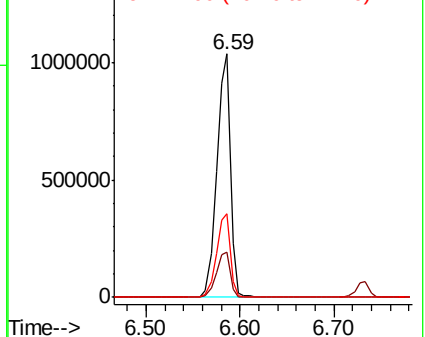
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 7.191 ng

RT: 6.59 min Scan# 766

Delta R.T. -0.02 min

Lab File: BF110104.D

Acq: 24 Oct 2018 10:19

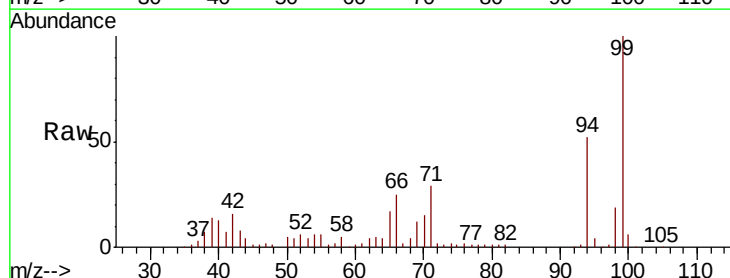
Tgt Ion: 94 Resp: 94766

Ion Ratio Lower Upper

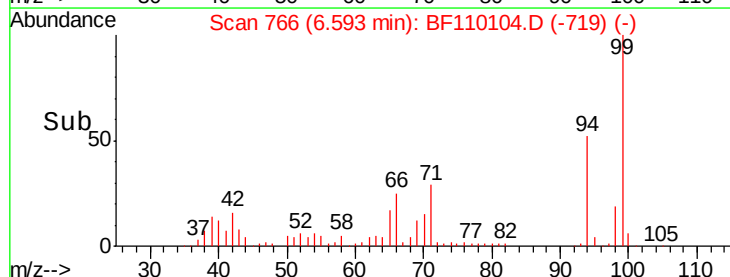
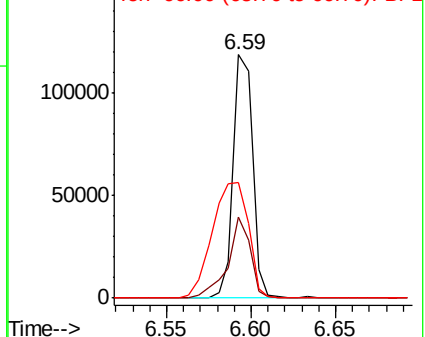
94 100

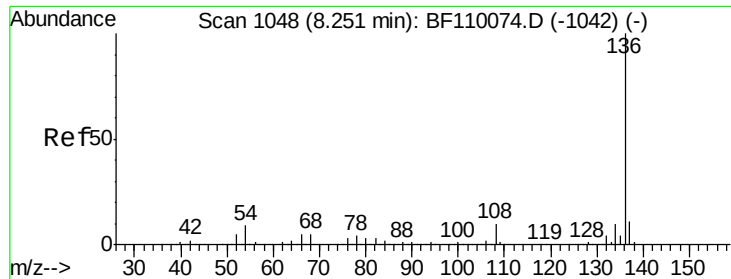
65 33.3 25.3 65.3

66 47.7 54.5 94.5#



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1





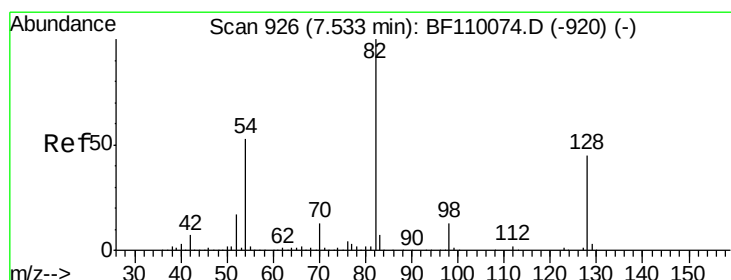
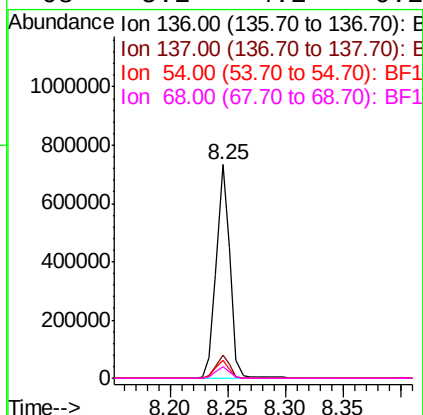
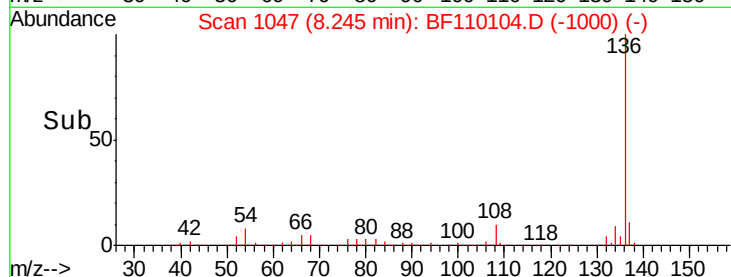
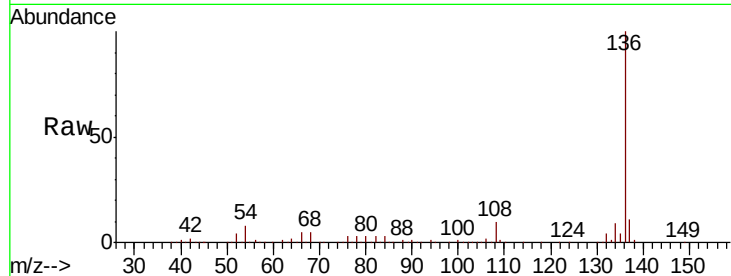
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.25 min Scan# 1047  
Delta R.T. -0.02 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(8-10)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 602760 |       |       |
| 137     | 10.9  |        | 8.8   | 13.2  |
| 54      | 8.3   |        | 5.4   | 8.2#  |
| 68      | 5.2   |        | 4.2   | 6.2   |

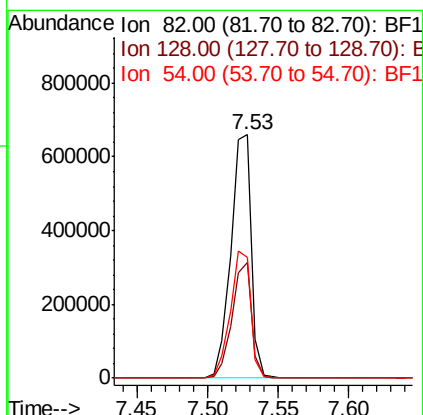
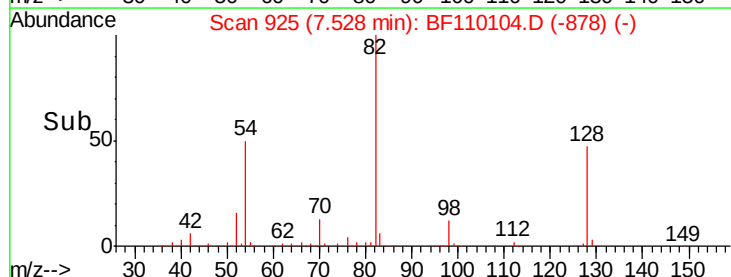
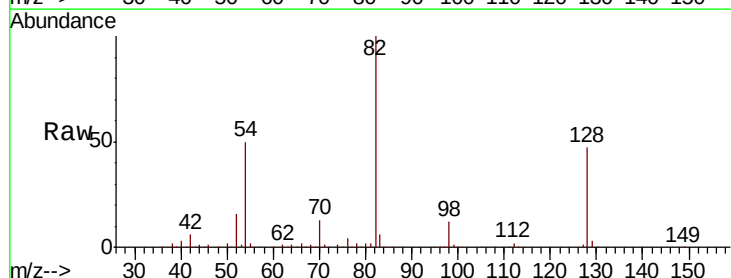
Manual Integrations  
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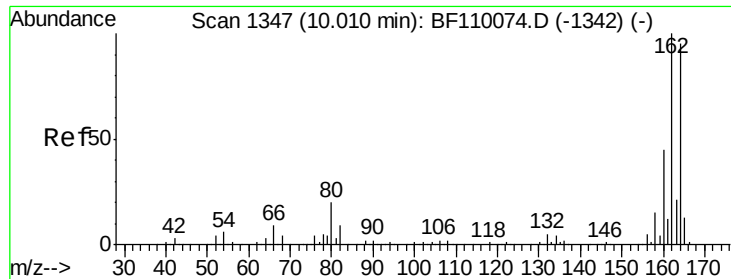
Sohil  
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#23  
Nitrobenzene-d5  
Concen: 65.368 ng  
RT: 7.53 min Scan# 925  
Delta R.T. -0.02 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 664294 |       |       |
| 128     | 47.3  |        | 34.2  | 51.2  |
| 54      | 49.6  |        | 38.6  | 58.0  |





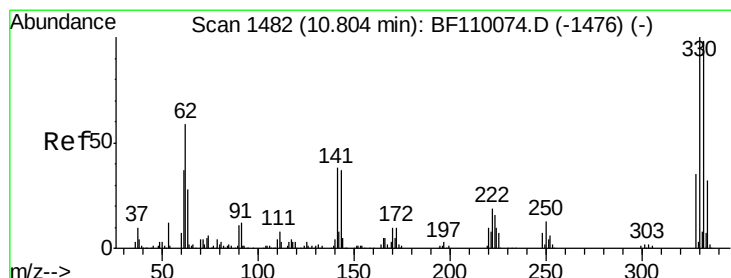
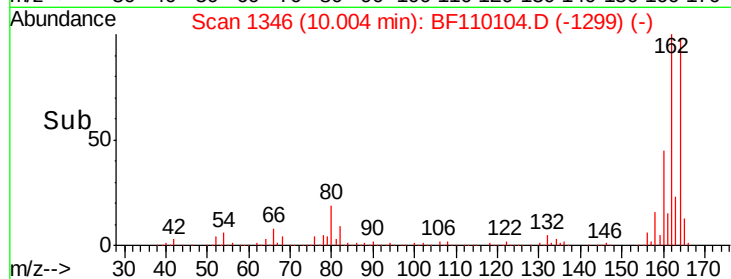
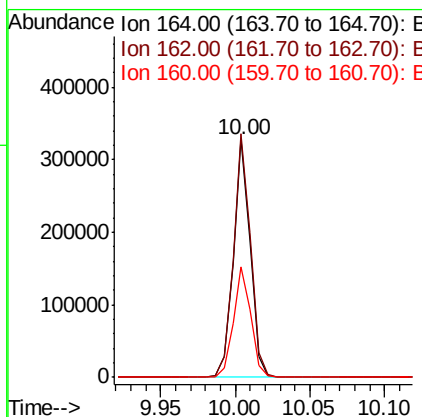
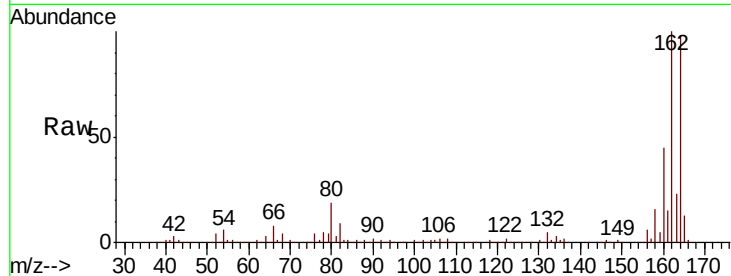
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.00 min Scan# 1346  
Delta R.T. -0.02 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(8-10)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.2 | 83.0  | 124.6 |
| 160     | 46.2  | 37.0  | 55.6  |

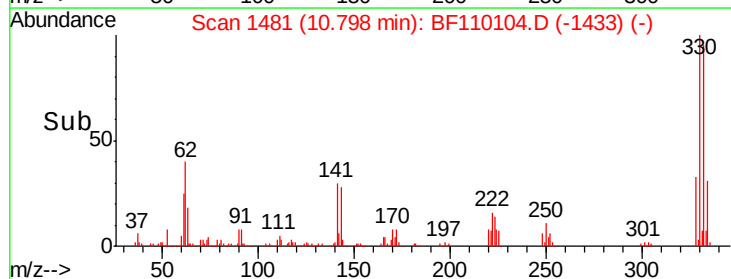
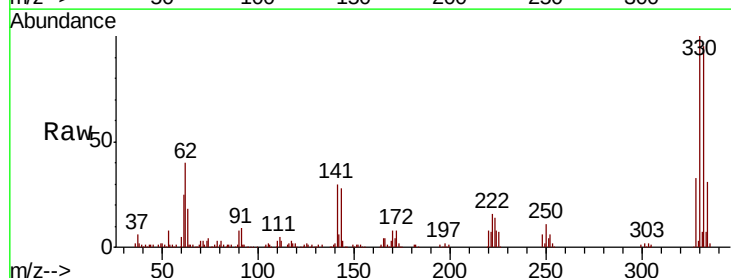
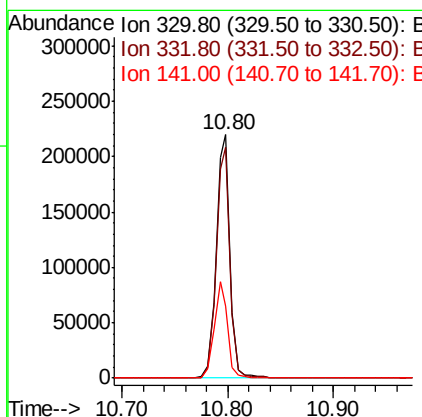
Manual Integrations  
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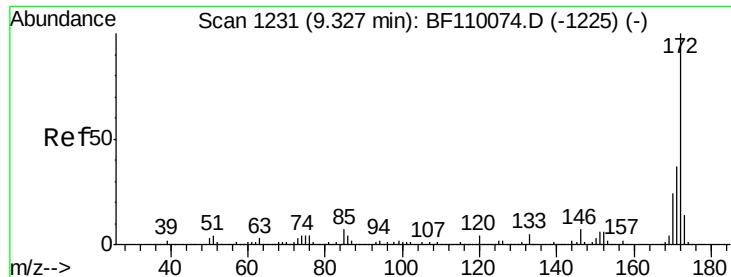
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10/25/2018 11:14:01 AM



#42  
2,4,6-Tribromophenol  
Concen: 78.936 ng  
RT: 10.80 min Scan# 1481  
Delta R.T. -0.02 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.0  | 77.1  | 115.7 |
| 141     | 38.5  | 27.0  | 40.4  |





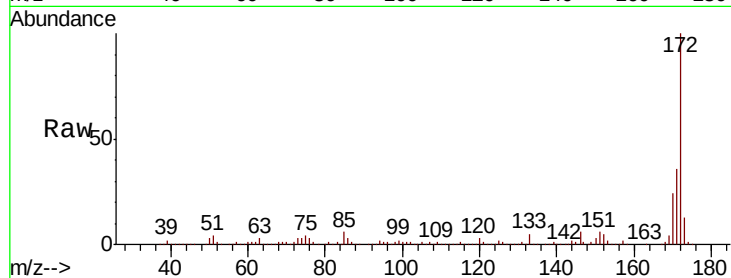
#45  
2-Fluorobiphenyl  
Concen: 60.137 ng  
RT: 9.32 min Scan# 1230  
Delta R.T. -0.02 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(8-10)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.4  | 28.6  | 43.0  |
| 170     | 23.9  | 19.7  | 29.5  |

Manual Integrations  
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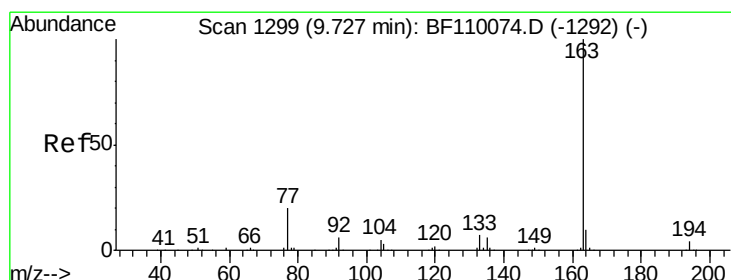
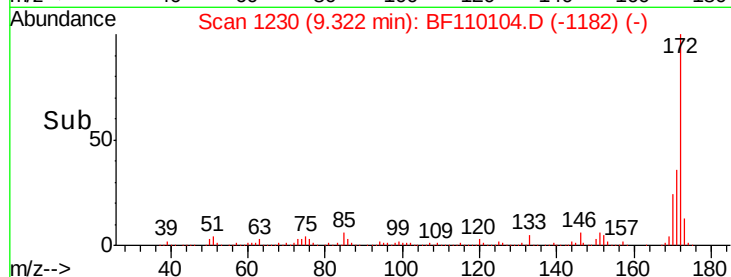
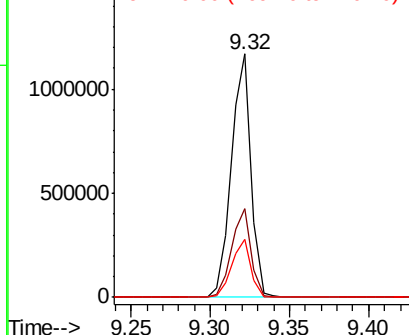


Abundance

Ion 172.00 (171.70 to 172.70): E

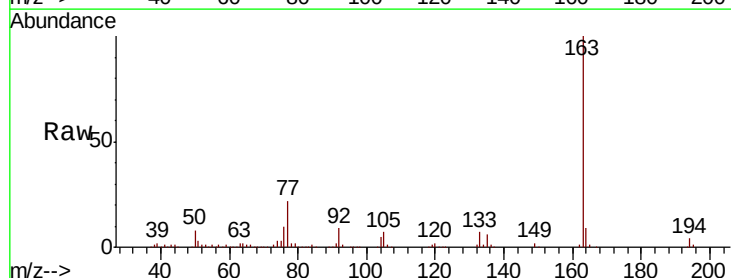
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50  
Dimethylphthalate  
Concen: 8.974 ng  
RT: 9.71 min Scan# 1296  
Delta R.T. -0.03 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.6   | 3.2   | 4.8   |
| 164     | 9.4   | 8.1   | 12.1  |

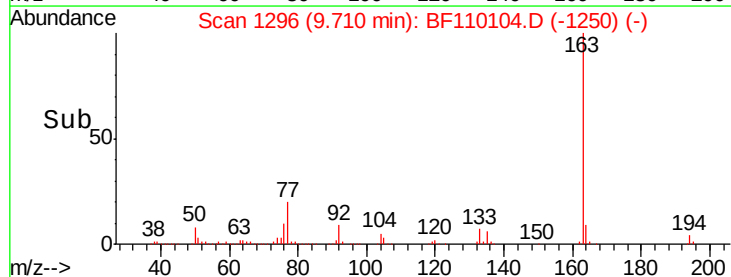
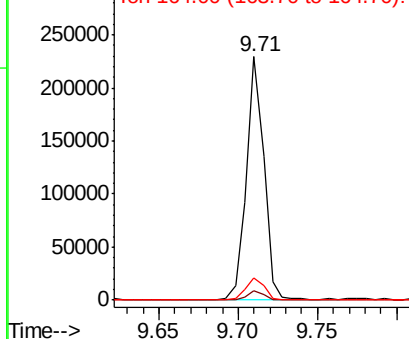


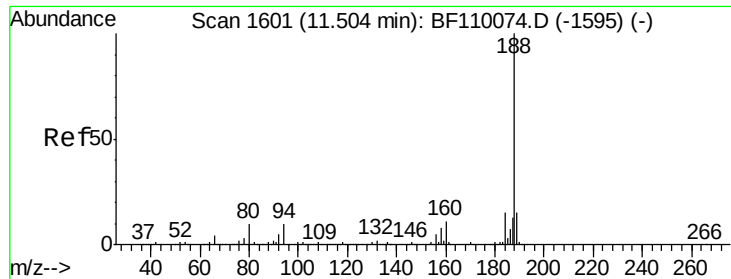
Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





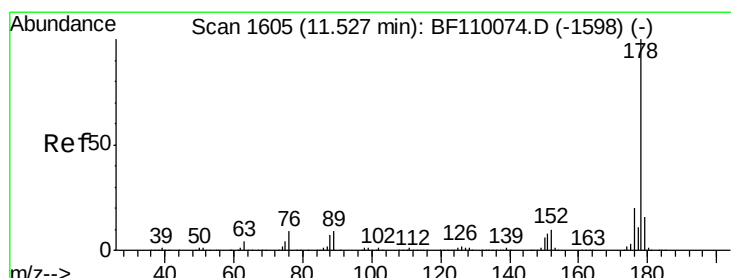
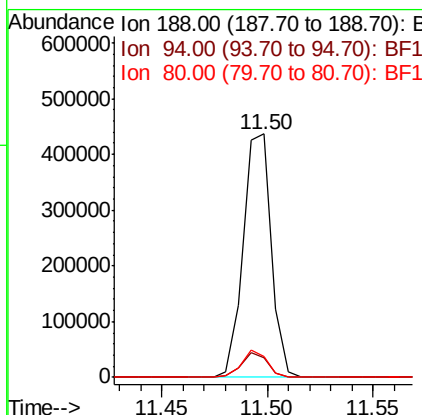
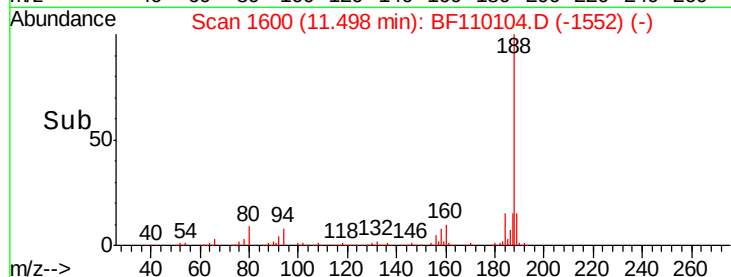
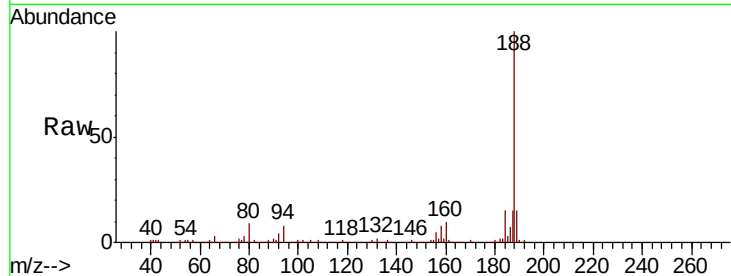
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.50 min Scan# 1600  
Delta R.T. -0.02 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

Instrument :  
BNA\_F  
ClientSampled :  
SB-4(8-10)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 8.1   | 7.2        | 10.8  |
| 80      | 8.5   | 7.9        | 11.9  |

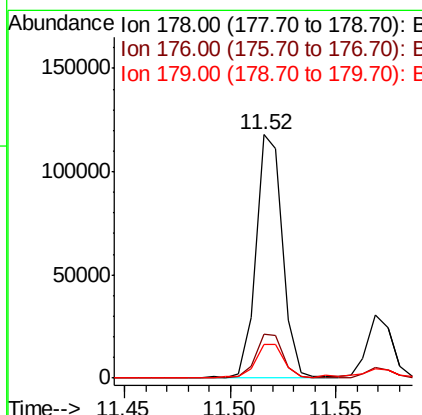
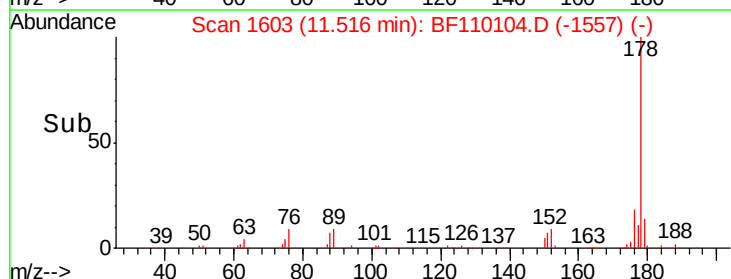
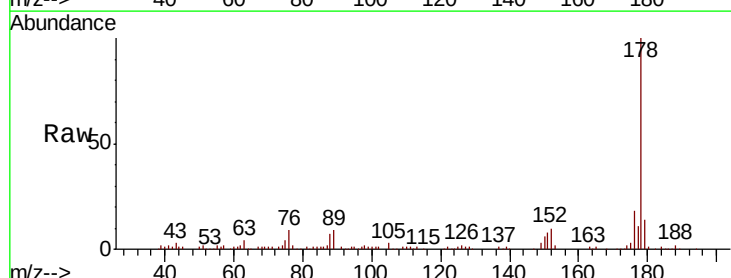
Manual Integrations  
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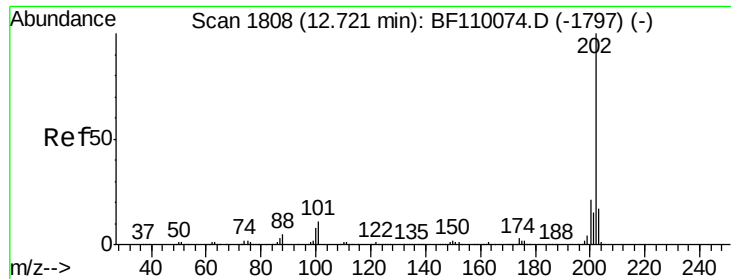


#71  
Phenanthrene  
Concen: 4.960 ng  
RT: 11.52 min Scan# 1603  
Delta R.T. -0.03 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 17.9  | 15.5       | 23.3  |
| 179     | 14.0  | 12.5       | 18.7  |







#75

Fluoranthene

Concen: 4.917 ng

RT: 12.71 min Scan# 1806

Delta R.T. -0.02 min

Lab File: BF110104.D

Acq: 24 Oct 2018 10:19

Instrument :

BNA\_F

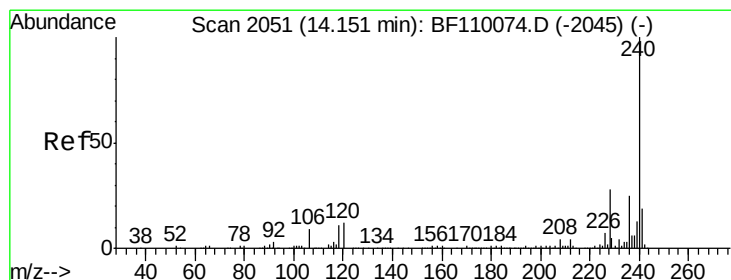
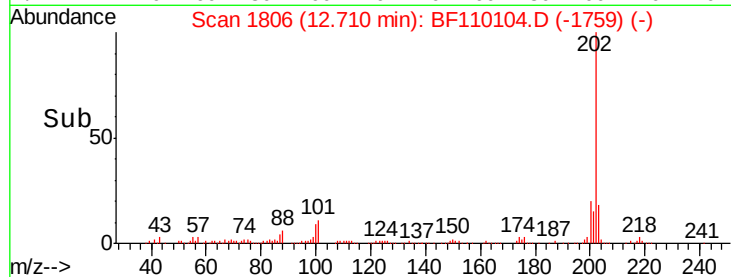
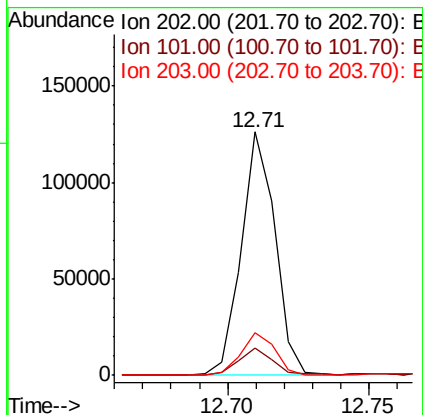
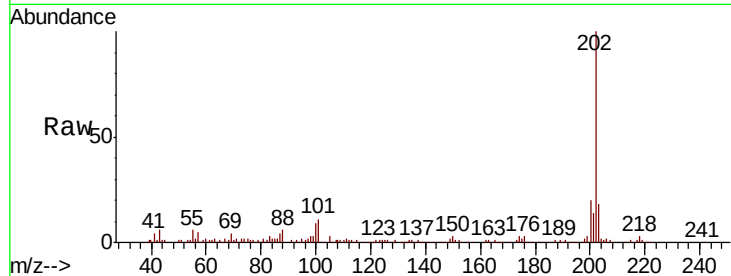
ClientSampleId :

SB-4(8-10)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 11.5  | 0.0        | 31.4  |
| 203     | 17.7  | 0.0        | 37.7  |

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#76

Chrysene-d12

Concen: 20.000 ng

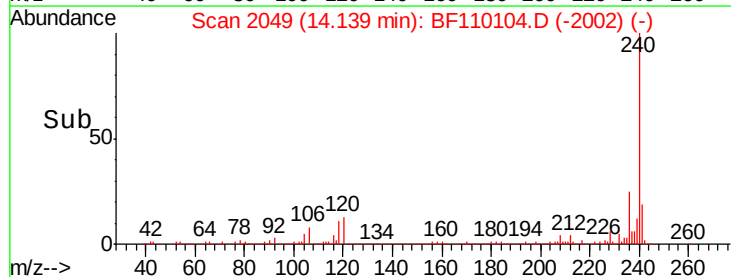
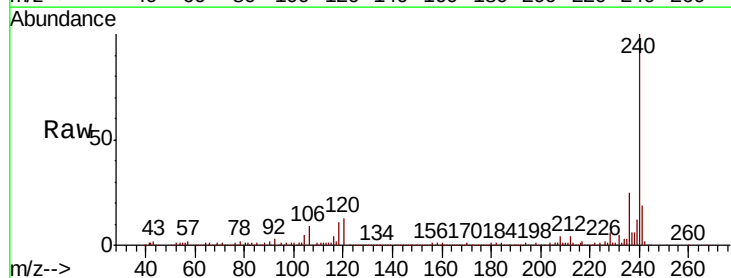
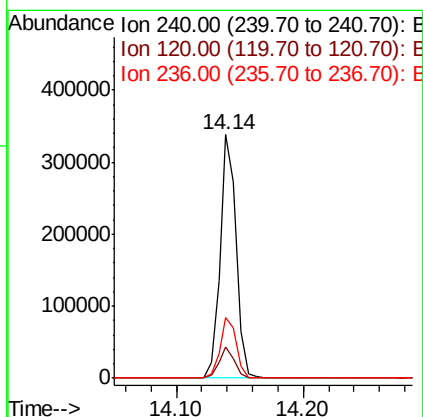
RT: 14.14 min Scan# 2049

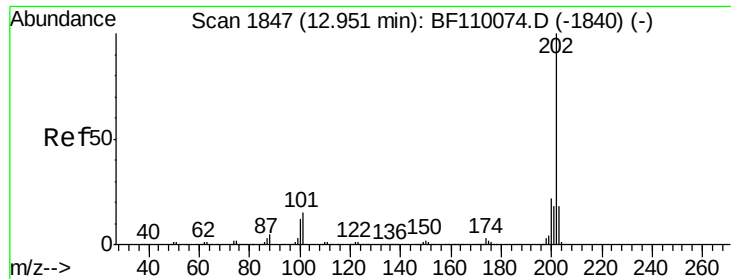
Delta R.T. -0.02 min

Lab File: BF110104.D

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| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 13.0  | 8.3        | 12.5# |
| 236     | 25.1  | 21.2       | 31.8  |





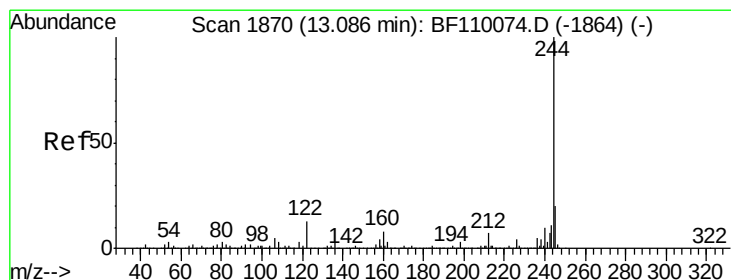
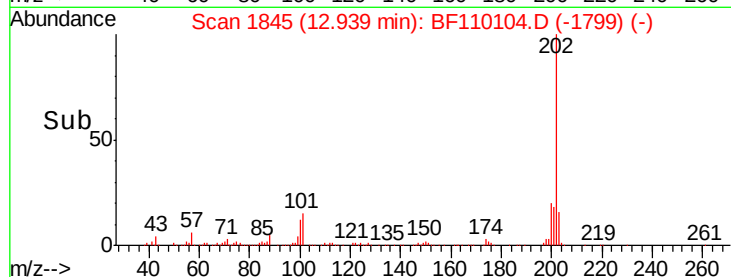
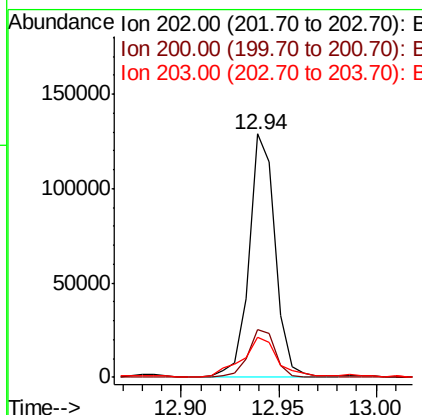
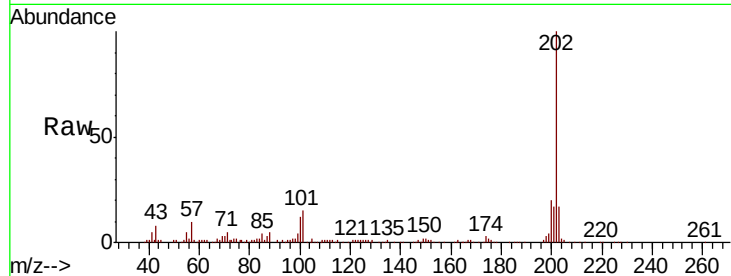
#78  
Pvrene  
Concen: 5.538 ng  
RT: 12.94 min Scan# 1845  
Delta R.T. -0.03 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(8-10)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 19.8  | 17.8       | 26.6  |
| 203     | 16.6  | 14.2       | 21.4  |

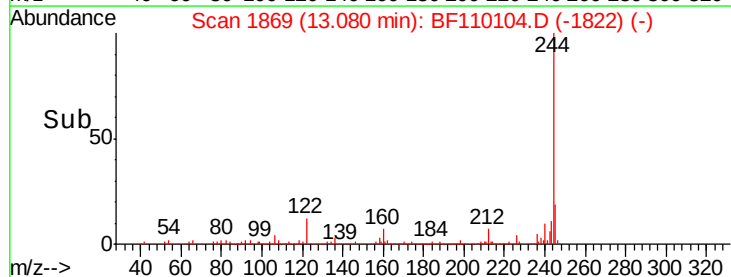
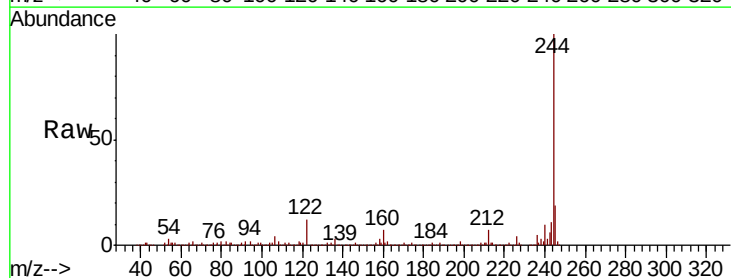
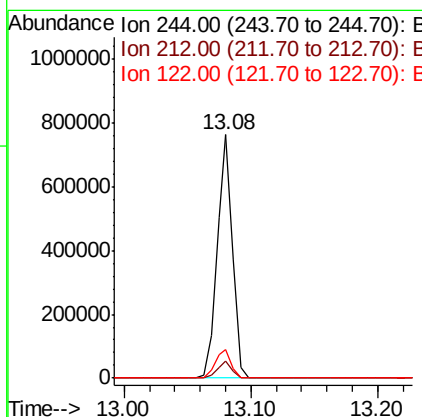
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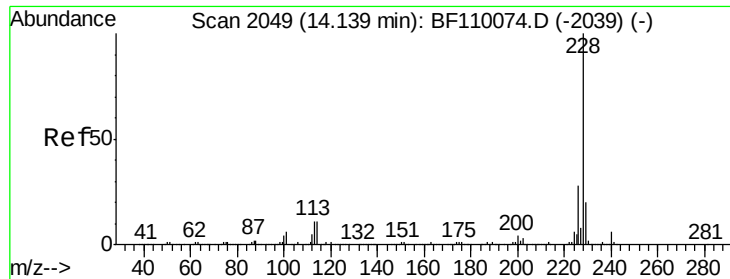
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#79  
Terphenyl-d14  
Concen: 44.908 ng  
RT: 13.08 min Scan# 1869  
Delta R.T. -0.02 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 6.8   | 5.8        | 8.8   |
| 122     | 12.0  | 8.7        | 13.1  |





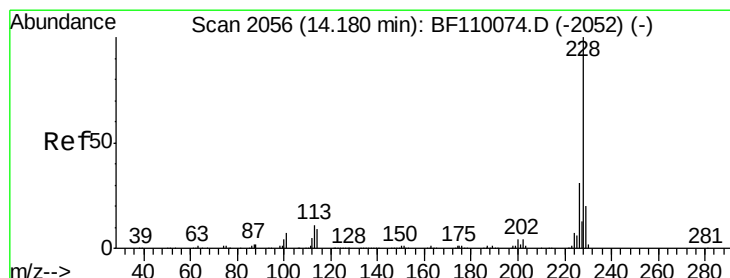
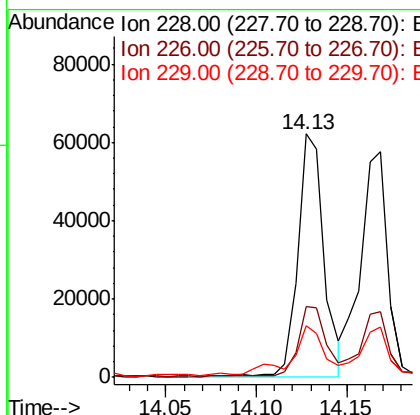
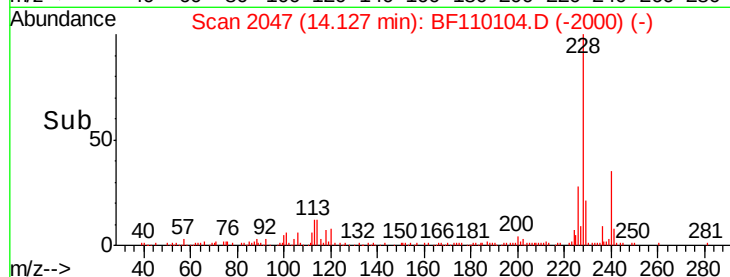
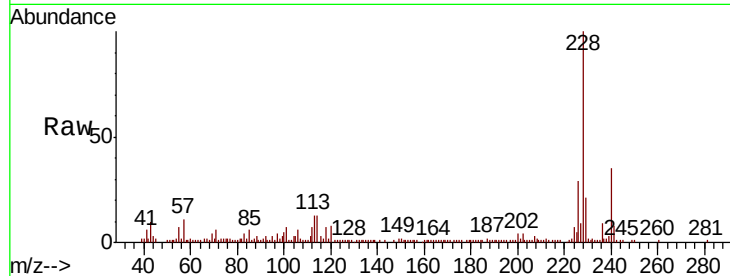
#81  
Benzo(a)anthracene  
Concen: 3.603 ng  
RT: 14.13 min Scan# 2047  
Delta R.T. -0.02 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(8-10)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.2  | 22.1  | 33.1  |
| 229     | 21.2  | 15.6  | 23.4  |

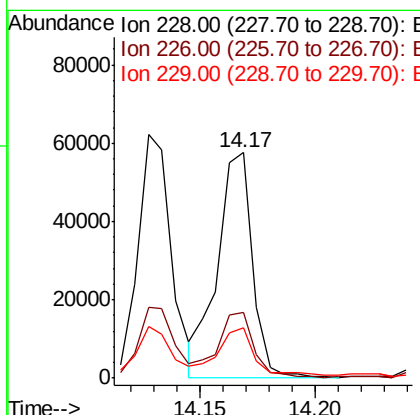
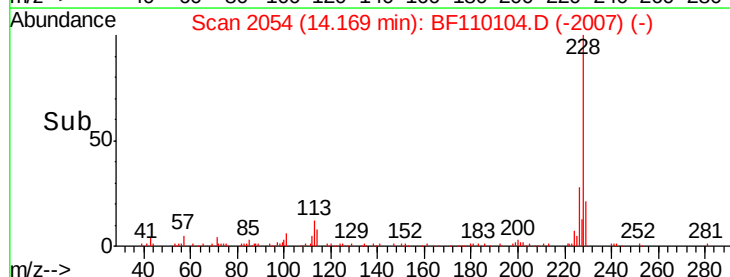
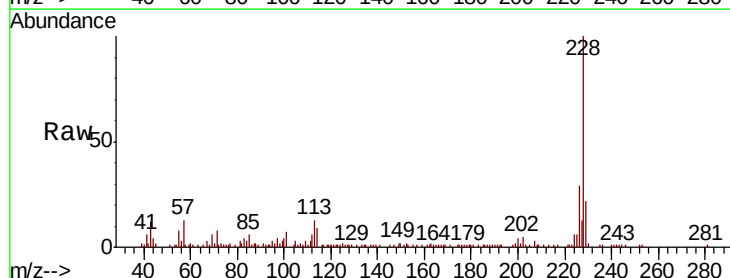
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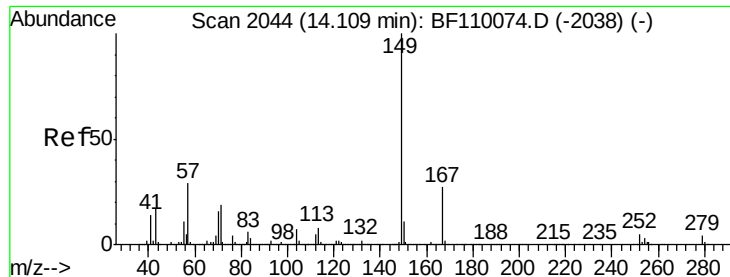
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#83  
Chrysene  
Concen: 3.645 ng  
RT: 14.17 min Scan# 2054  
Delta R.T. -0.02 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.0  | 24.7  | 37.1  |
| 229     | 22.4  | 15.9  | 23.9  |





#84

Bis(2-ethylhexyl)phthalate

Concen: 3.632 ng

RT: 14.10 min Scan# 2043

Delta R.T. -0.02 min

Lab File: BF110104.D

Acq: 24 Oct 2018 10:19

Instrument :

BNA\_F

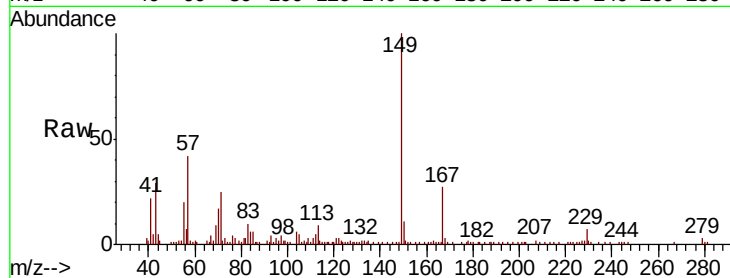
ClientSampleId :

SB-4(8-10)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 149   | Resp: | 45560 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 27.0  | 19.8  | 29.8  |
| 279       | 2.9   | 2.7   | 4.1   |

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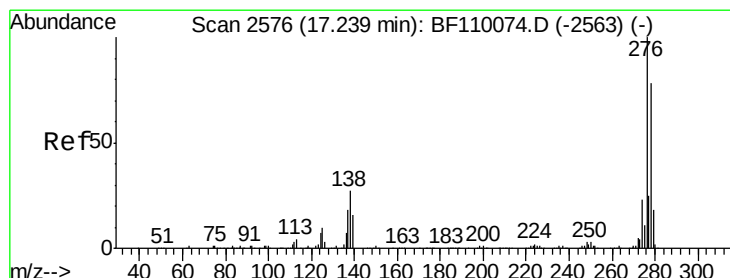
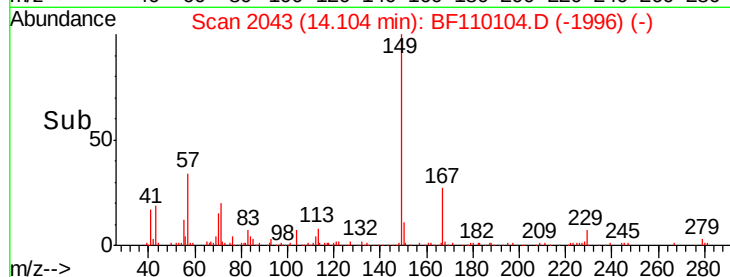
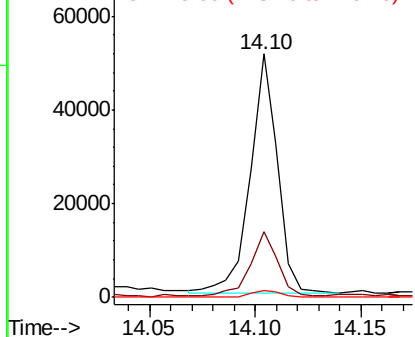


Abundance

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



#86

Indeno(1,2,3-cd)pyrene

Concen: 2.544 ng

RT: 17.21 min Scan# 2571

Delta R.T. -0.05 min

Lab File: BF110104.D

Acq: 24 Oct 2018 10:19

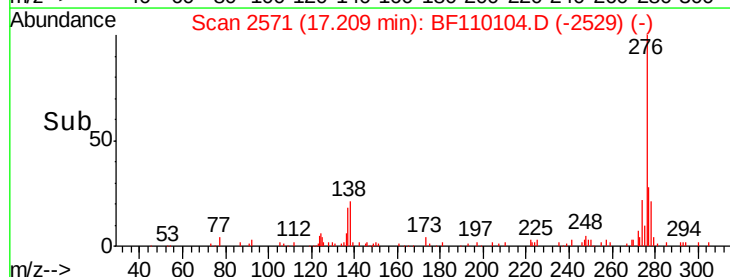
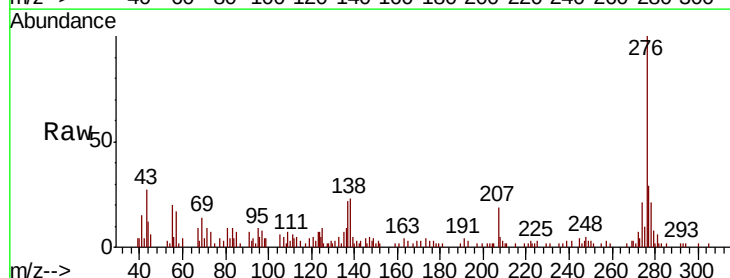
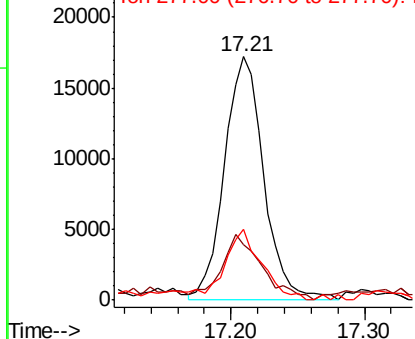
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 35456 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 28.0  | 18.5  | 27.7# |
| 277       | 27.5  | 20.0  | 30.0  |

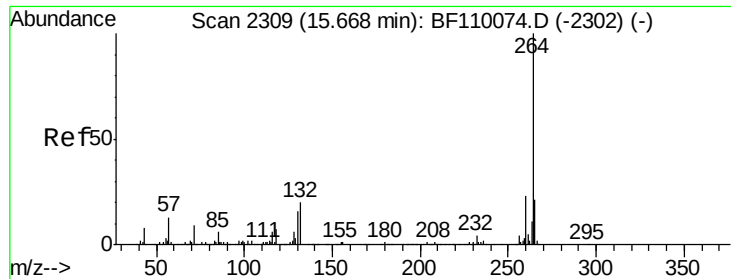
Abundance

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





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.66 min Scan# 2308

Delta R.T. -0.03 min

Lab File: BF110104.D

Acq: 24 Oct 2018 10:19

Instrument :

BNA\_F

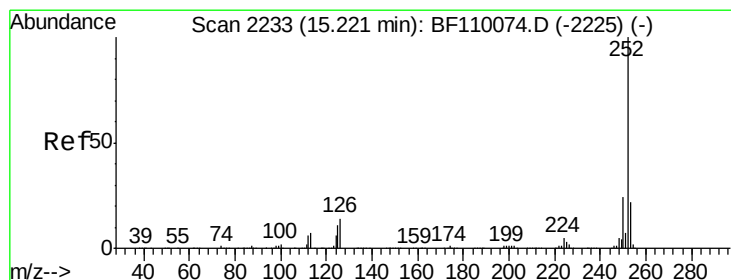
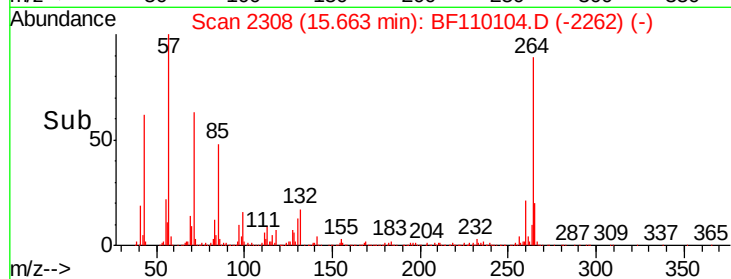
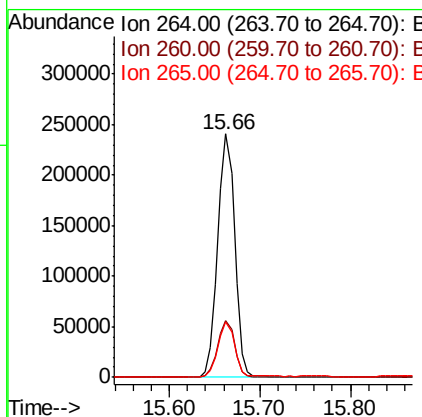
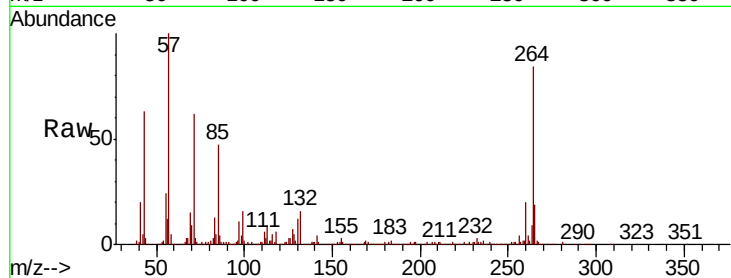
ClientSampleId :

SB-4(8-10)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 314831 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.3  | 18.7  | 28.1   |
| 265       | 22.6  | 16.7  | 25.1   |

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#88

Benzo(b)fluoranthene

Concen: 3.905 ng m

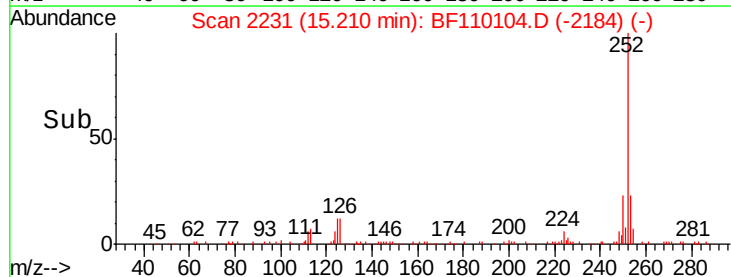
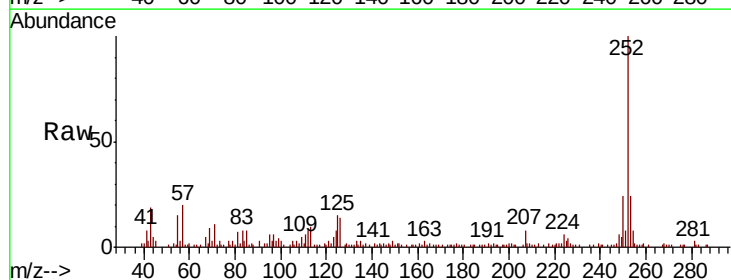
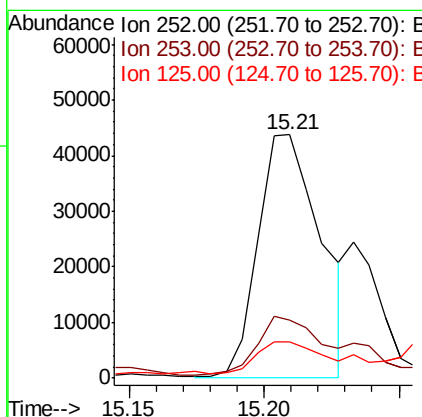
RT: 15.21 min Scan# 2231

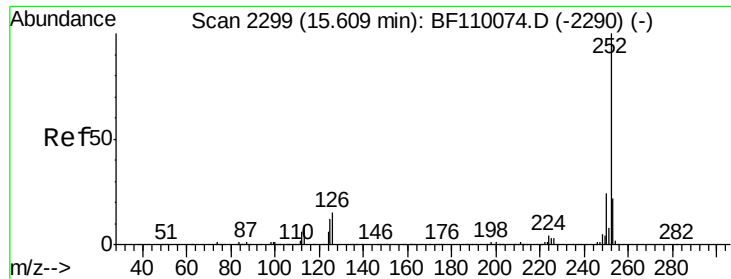
Delta R.T. -0.02 min

Lab File: BF110104.D

Acq: 24 Oct 2018 10:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 70990 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.9  | 17.2  | 25.8  |
| 125       | 14.7  | 8.2   | 12.4# |





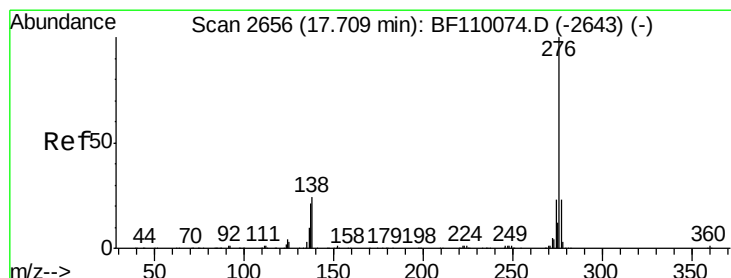
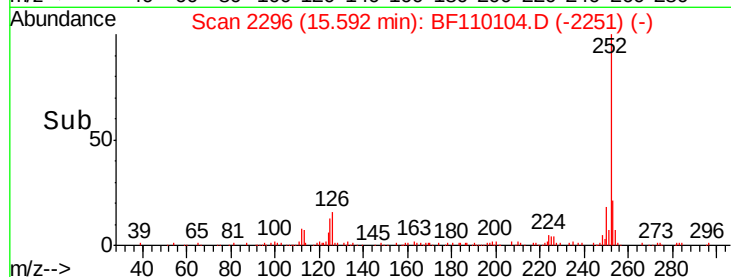
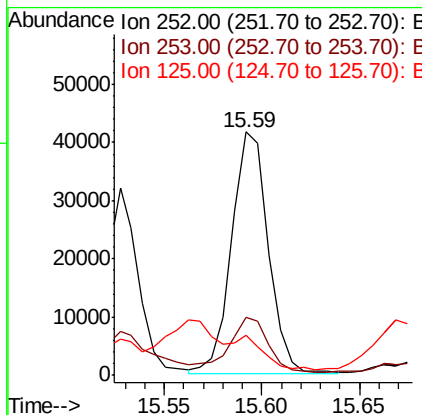
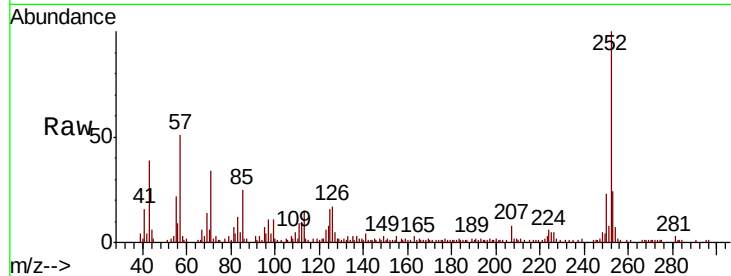
#90  
Benzo(a)pyrene  
Concen: 3.213 ng  
RT: 15.59 min Scan# 2296  
Delta R.T. -0.04 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(8-10)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 18.2  | 27.4  |
| 125     | 16.5  | 9.0   | 13.6# |

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#92  
Benzo(g,h,i)perylene  
Concen: 2.400 ng  
RT: 17.68 min Scan# 2651  
Delta R.T. -0.06 min  
Lab File: BF110104.D  
Acq: 24 Oct 2018 10:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 28.9  | 18.8  | 28.2# |
| 138     | 26.5  | 16.0  | 24.0# |

