

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031519\  
 Data File : BF113074.D  
 Acq On : 15 Mar 2019 19:10  
 Operator : JU/SJ  
 Sample : K1698-01 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-04-031419

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 3/18/2019 2:59:31 PM

Quant Time: Mar 15 23:57:08 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 13 03:42:55 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.73  | 152  | 127723   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.01  | 136  | 516789   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.76  | 164  | 270454   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.23 | 188  | 521337   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 13.86 | 240  | 396130   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.27 | 264  | 392787   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.33  | 112  | 138043   | 16.81 | ng    | -0.01    |
| 7) Phenol-d6                | 6.36  | 99   | 196662   | 19.07 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.28  | 82   | 110313   | 12.77 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.55 | 330  | 65953    | 22.97 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.08  | 172  | 261631   | 11.93 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.82 | 244  | 247505   | 12.11 | ng    | 0.00     |

| Target Compounds         | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------|-------|------|----------|--------|-------|--------|
| 31) Naphthalene          | 8.03  | 128  | 159589   | 6.220  | ng    | 99     |
| 37) 2-Methylnaphthalene  | 8.72  | 142  | 102670   | 6.196  | ng    | 98     |
| 38) 1-Methylnaphthalene  | 8.82  | 142  | 92784    | 5.781  | ng    | 99     |
| 52) Acenaphthene         | 9.79  | 154  | 34307    | 2.006  | ng    | 95     |
| 58) Fluorene             | 10.30 | 166  | 64933    | 3.681  | ng    | 96     |
| 71) Phenanthrene         | 11.26 | 178  | 330269   | 12.733 | ng    | 98     |
| 72) Anthracene           | 11.31 | 178  | 62992    | 2.320  | ng    | 97     |
| 75) Fluoranthene         | 12.44 | 202  | 121602m  | 4.376  | ng    |        |
| 78) Pyrene               | 12.68 | 202  | 245116   | 7.340  | ng    | 97     |
| 81) Benzo(a)anthracene   | 13.85 | 228  | 99039    | 3.607  | ng    | 94     |
| 83) Chrysene             | 13.89 | 228  | 99702    | 3.707  | ng    | 97     |
| 88) Benzo(b)fluoranthene | 14.87 | 252  | 96633m   | 3.803  | ng    |        |
| 90) Benzo(a)pyrene       | 15.21 | 252  | 82730    | 3.681  | ng    | 98     |

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

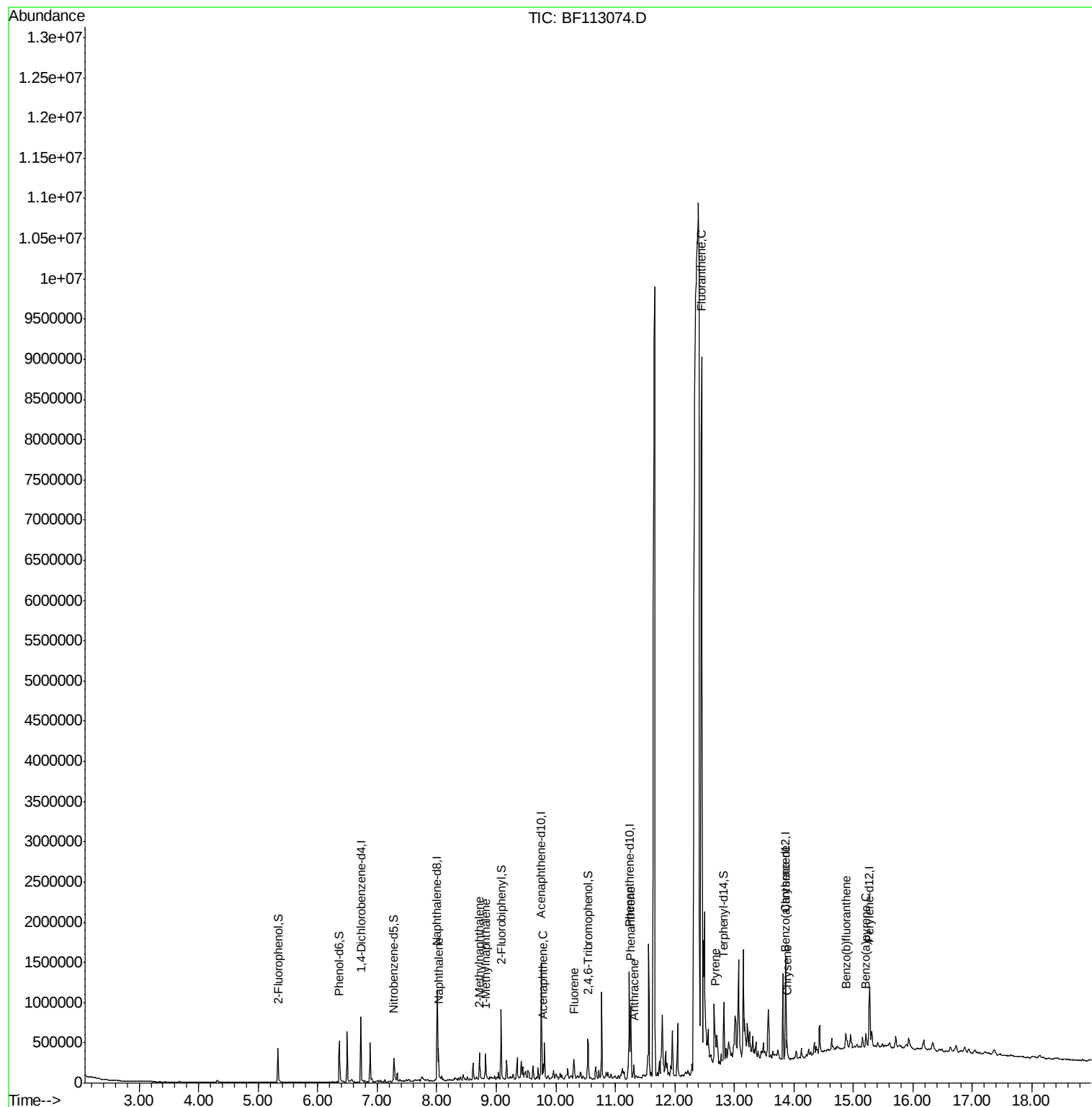
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031519\  
Data File : BF113074.D  
Acq On : 15 Mar 2019 19:10  
Operator : JU/SJ  
Sample : K1698-01 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

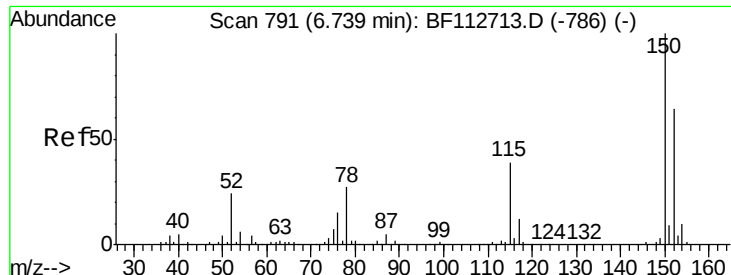
Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-031419

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Quant Time: Mar 15 23:57:08 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 13 03:42:55 2019  
Response via : Initial Calibration





#1

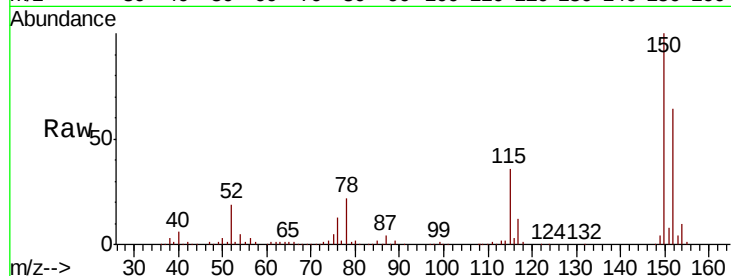
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 789  
Delta R.T. -0.01 min  
Lab File: BF113074.D  
Acq: 15 Mar 2019 19:10

Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-031419

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.7 | 124.2 | 186.2 |
| 115     | 55.4  | 48.2  | 72.4  |

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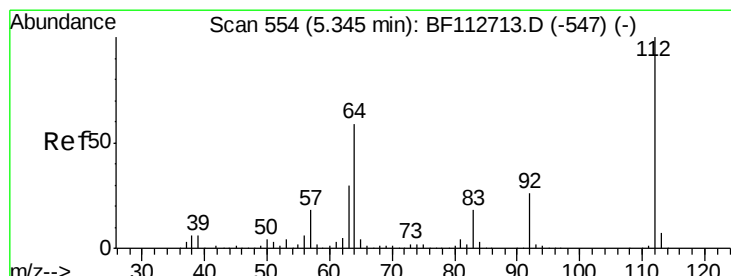
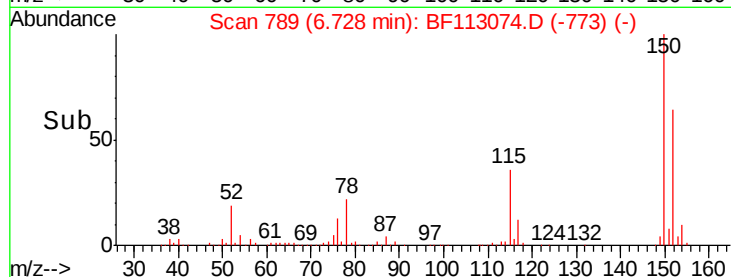
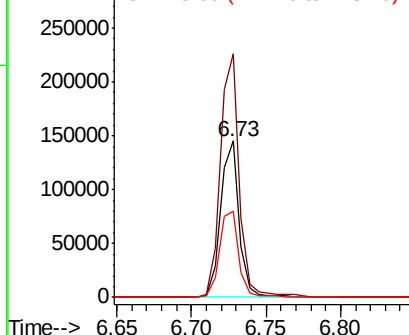


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

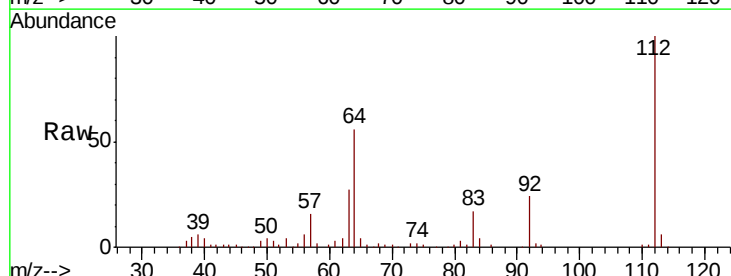
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 16.812 ng  
RT: 5.33 min Scan# 552  
Delta R.T. -0.01 min  
Lab File: BF113074.D  
Acq: 15 Mar 2019 19:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.1  | 47.6  | 71.4  |
| 63      | 27.4  | 24.4  | 36.6  |

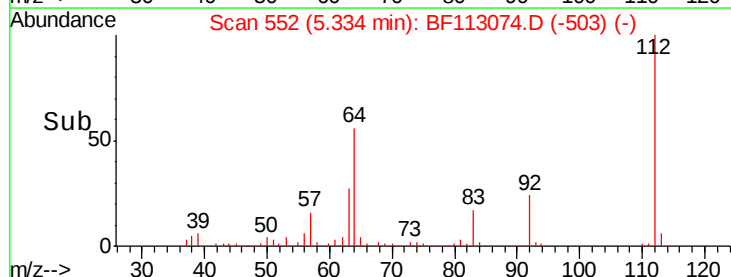
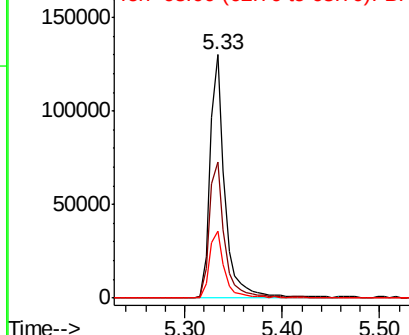


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 19.067 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF113074.D

Acq: 15 Mar 2019 19:10

Instrument :

BNA\_F

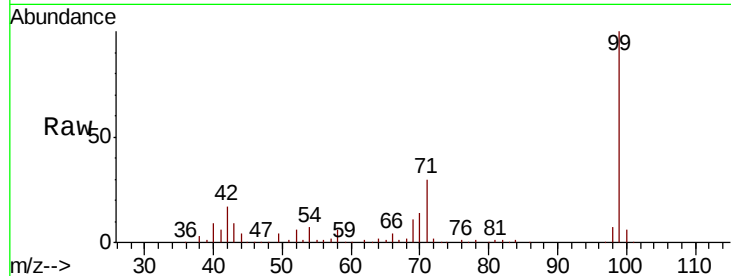
ClientSampled :

TR-04-031419

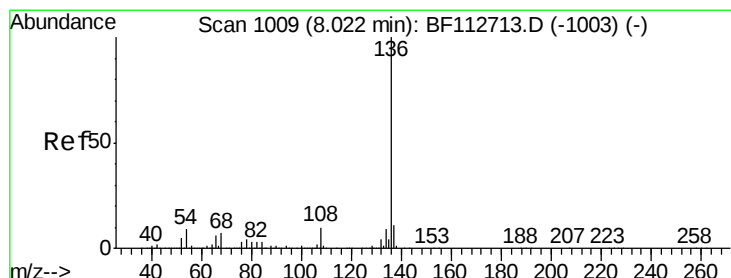
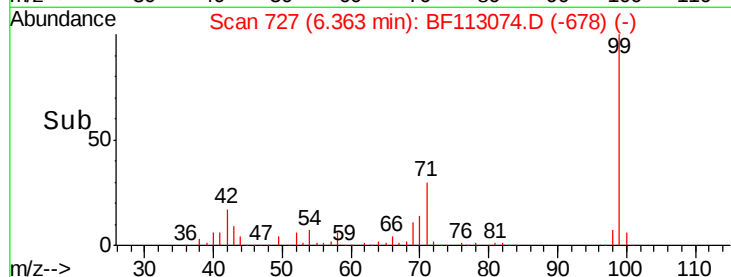
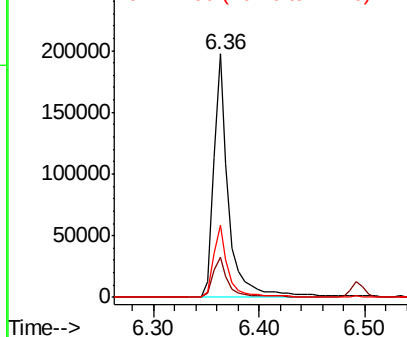
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 196662 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.6  | 16.3  | 24.5   |
| 71        | 29.8  | 26.2  | 39.4   |

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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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

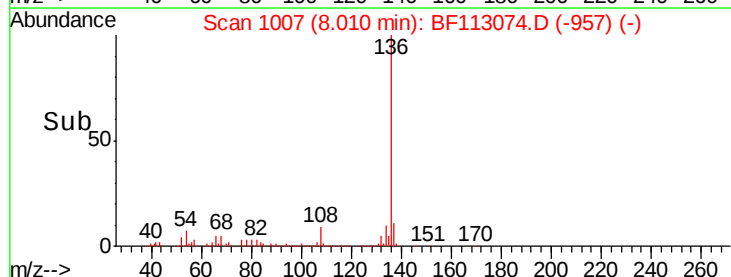
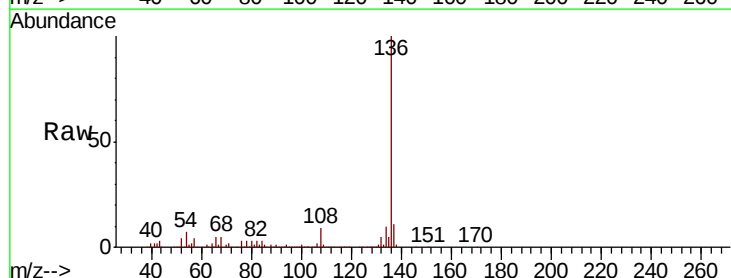
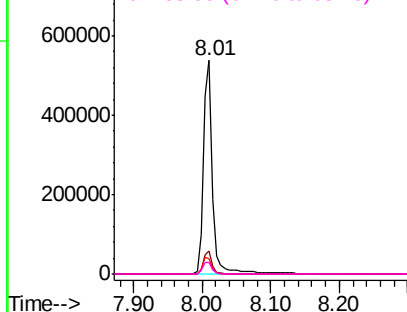
Delta R.T. -0.01 min

Lab File: BF113074.D

Acq: 15 Mar 2019 19:10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 516789 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.0  | 8.9   | 13.3   |
| 54        | 7.3   | 7.3   | 10.9   |
| 68        | 5.4   | 5.4   | 8.2#   |

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): BF1  
Ion 68.00 (67.70 to 68.70): BF1





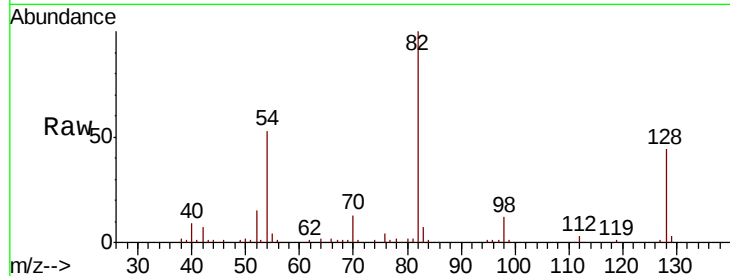
#23  
Nitrobenzene-d5  
Concen: 12.773 ng  
RT: 7.28 min Scan# 883  
Delta R.T. -0.02 min  
Lab File: BF113074.D  
Acq: 15 Mar 2019 19:10

Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-031419

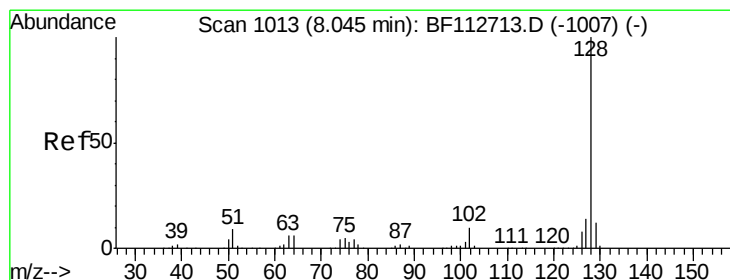
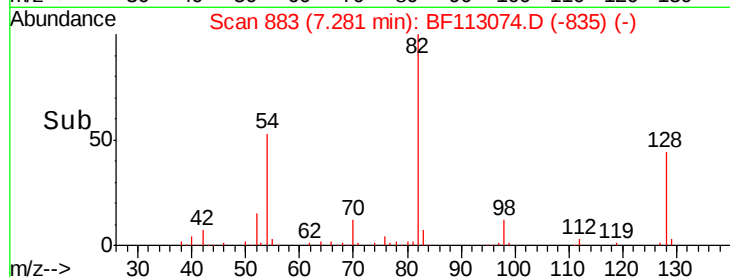
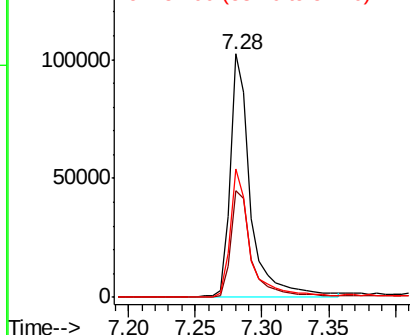
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 110313 |       |       |
| 128     | 43.6  | 36.3   | 54.5  |       |
| 54      | 52.6  | 43.7   | 65.5  |       |

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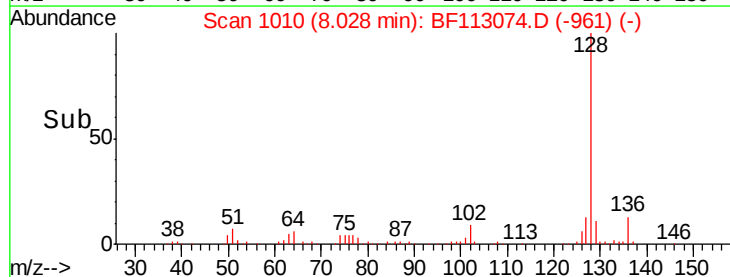
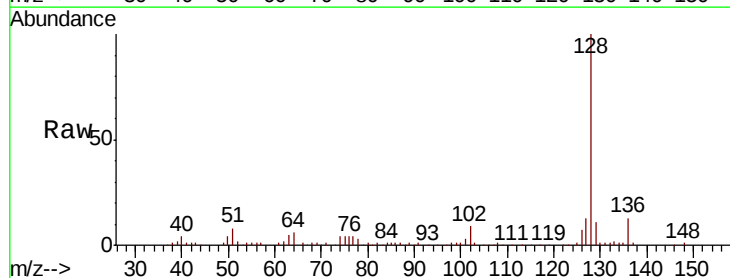
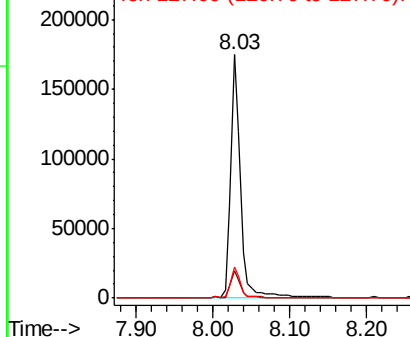
Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

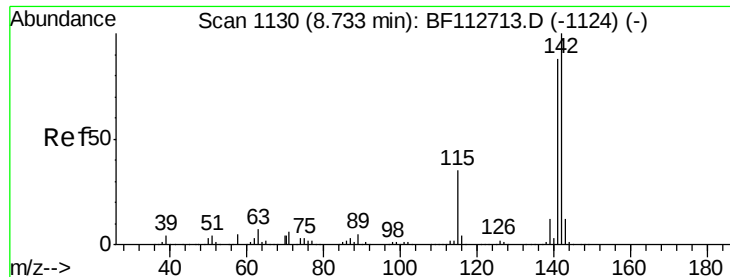


#31  
Naphthalene  
Concen: 6.220 ng  
RT: 8.03 min Scan# 1010  
Delta R.T. -0.01 min  
Lab File: BF113074.D  
Acq: 15 Mar 2019 19:10

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 159589 |       |       |
| 129     | 11.4  | 9.3    | 13.9  |       |
| 127     | 12.9  | 10.9   | 16.3  |       |

Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E





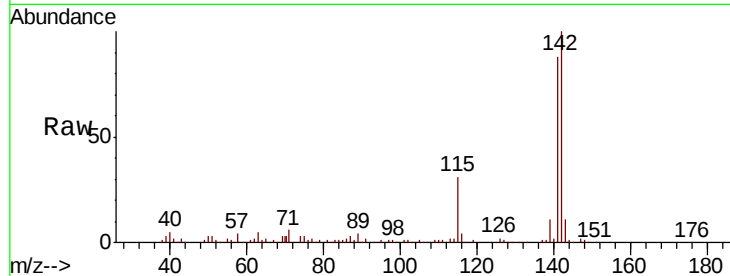
#37  
 2-Methylnaphthalene  
 Concen: 6.196 ng  
 RT: 8.72 min Scan# 1128  
 Delta R.T. -0.01 min  
 Lab File: BF113074.D  
 Acq: 15 Mar 2019 19:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-04-031419

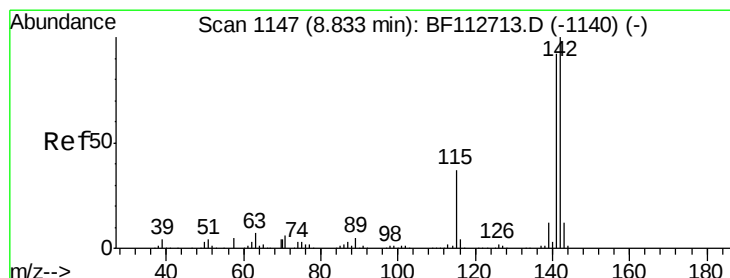
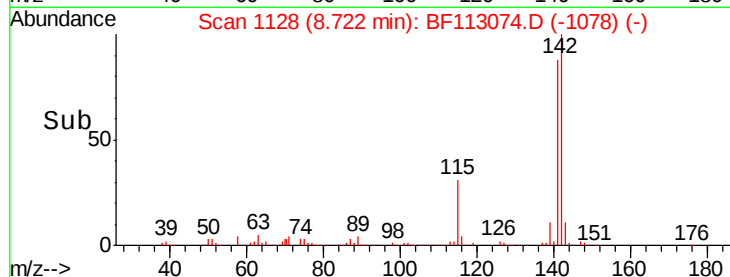
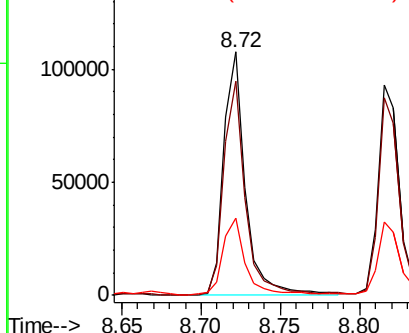
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 142   | Resp: | 102670 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 88.0  | 70.3  | 105.5  |
| 115       | 31.5  | 27.8  | 41.6   |

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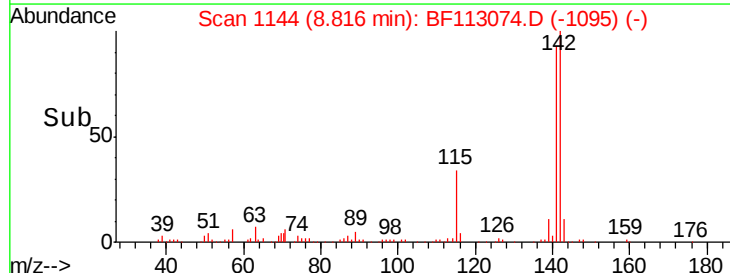
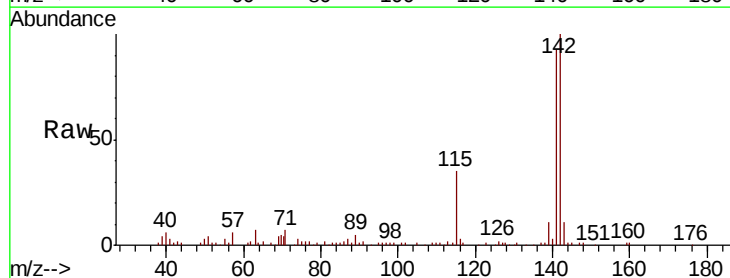
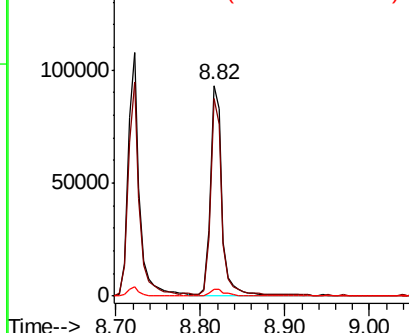
Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E



#38  
 1-Methylnaphthalene  
 Concen: 5.781 ng  
 RT: 8.82 min Scan# 1144  
 Delta R.T. -0.01 min  
 Lab File: BF113074.D  
 Acq: 15 Mar 2019 19:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 92784 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 93.4  | 73.7  | 110.5 |
| 116       | 3.5   | 3.1   | 4.7   |

Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 116.00 (115.70 to 116.70): E





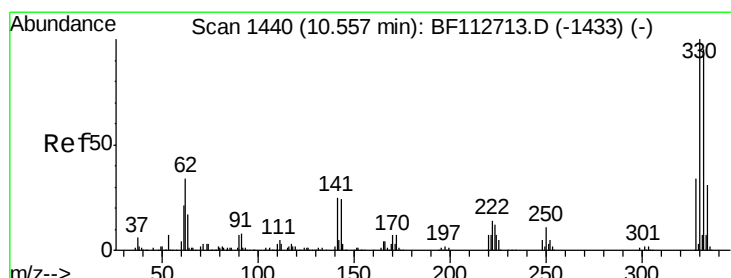
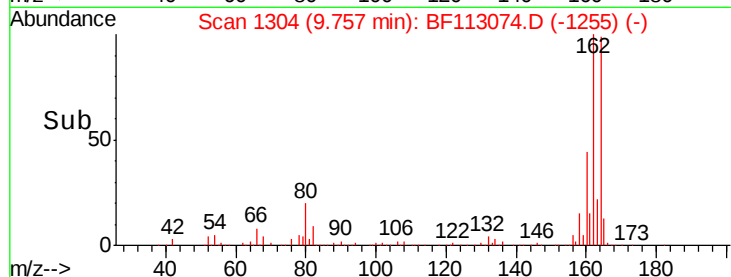
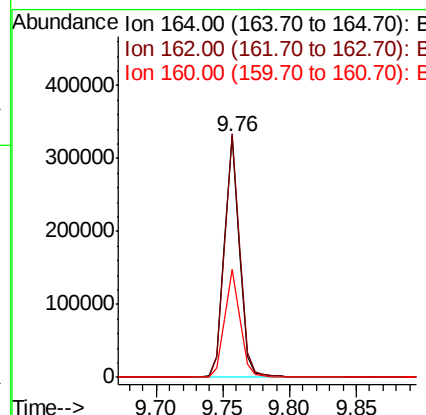
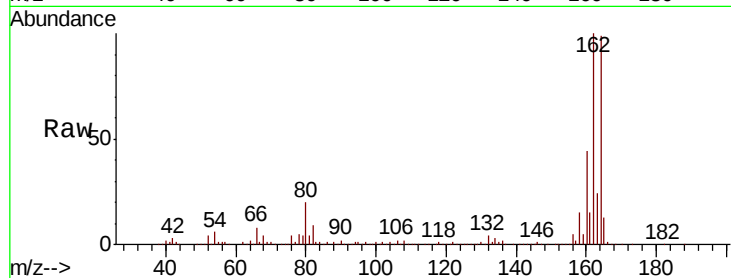
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1304  
Delta R.T. -0.01 min  
Lab File: BF113074.D  
Acq: 15 Mar 2019 19:10

Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-031419

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 101.1 | 80.6 | 120.8 |       |
| 160     | 44.6  | 36.0 | 54.0  |       |

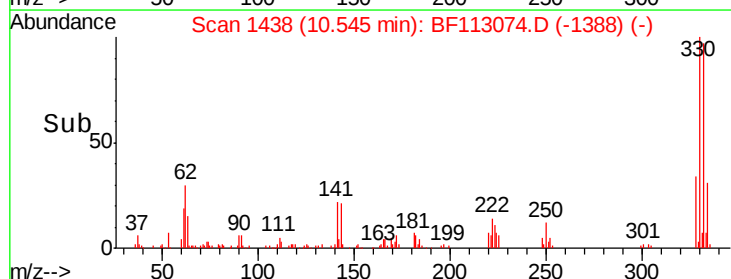
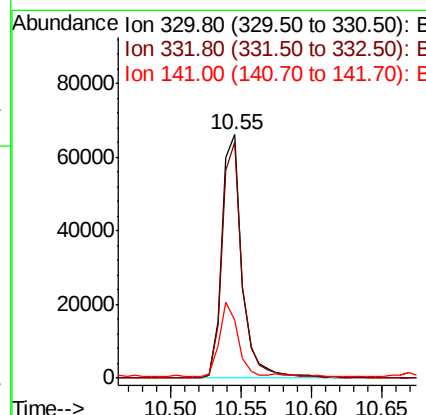
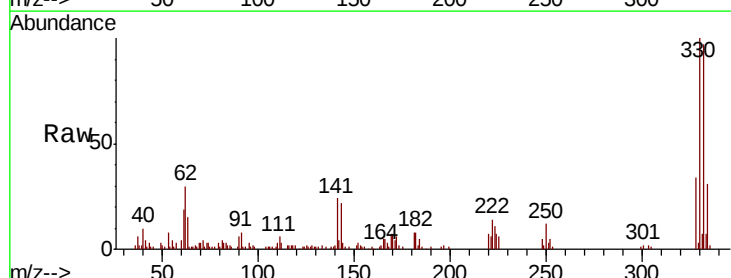
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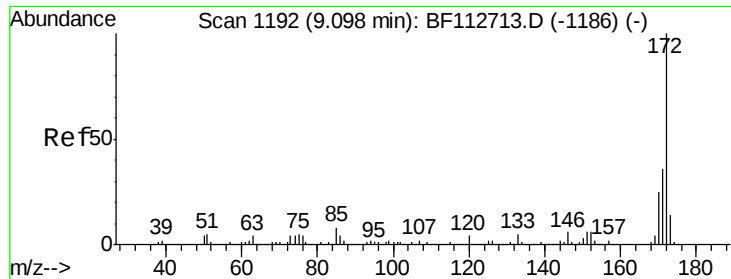
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#42  
2,4,6-Tribromophenol  
Concen: 22.970 ng  
RT: 10.55 min Scan# 1438  
Delta R.T. -0.01 min  
Lab File: BF113074.D  
Acq: 15 Mar 2019 19:10

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 96.7  | 76.2 | 114.4 |       |
| 141     | 27.6  | 27.0 | 40.6  |       |





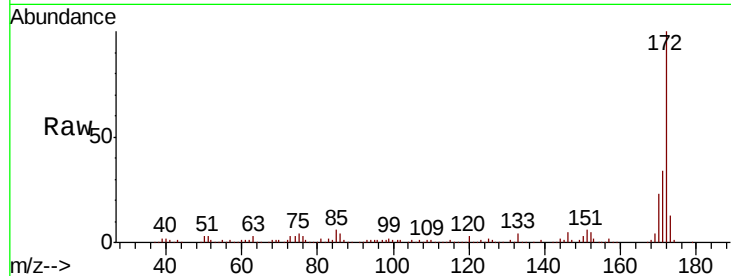
#45  
2-Fluorobiphenyl  
Concen: 11.926 ng  
RT: 9.08 min Scan# 1189  
Delta R.T. -0.01 min  
Lab File: BF113074.D  
Acq: 15 Mar 2019 19:10

Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-031419

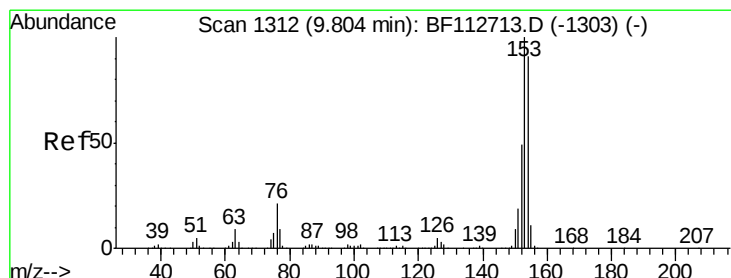
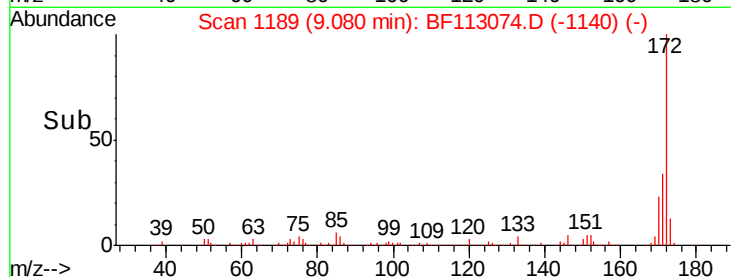
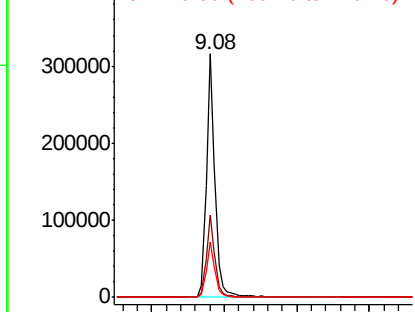
|             |       |           |
|-------------|-------|-----------|
| Tot Ion:172 | Resp: | 261631    |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 33.8  | 29.0 43.4 |
| 170         | 22.8  | 20.0 30.0 |

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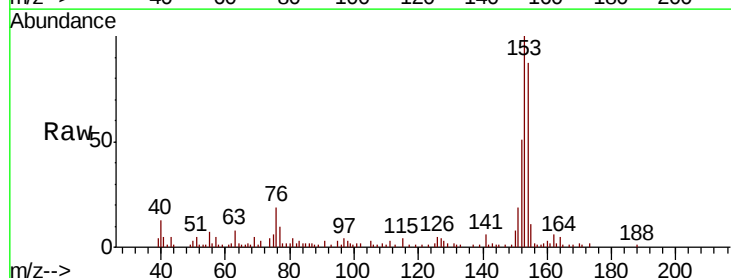


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

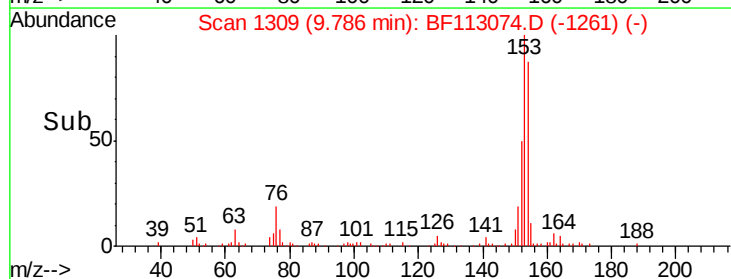
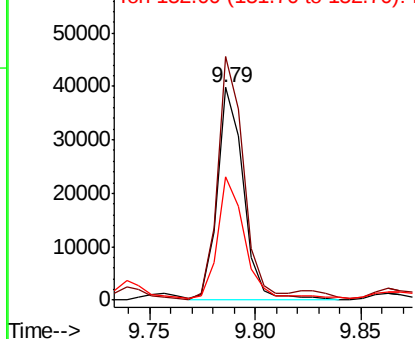


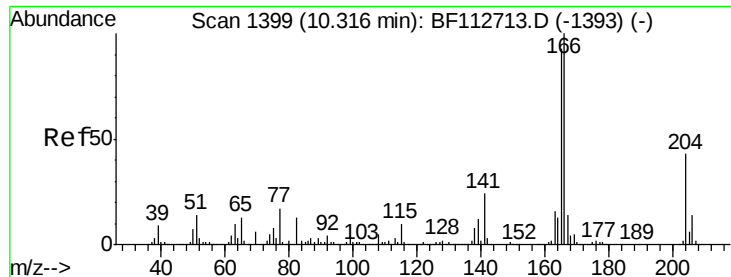
#52  
Acenaphthene  
Concen: 2.006 ng  
RT: 9.79 min Scan# 1309  
Delta R.T. -0.02 min  
Lab File: BF113074.D  
Acq: 15 Mar 2019 19:10

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:154 | Resp: | 34307      |
| Ion Ratio   | Lower | Upper      |
| 154         | 100   |            |
| 153         | 114.7 | 87.8 131.8 |
| 152         | 58.2  | 43.0 64.6  |



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





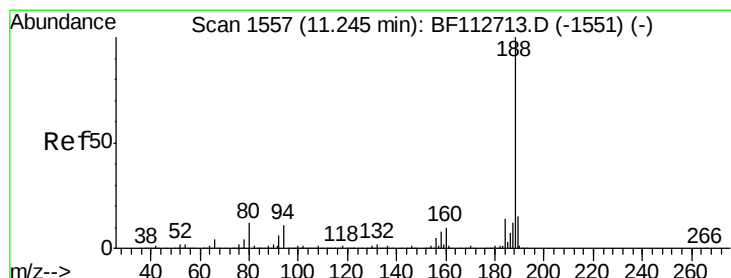
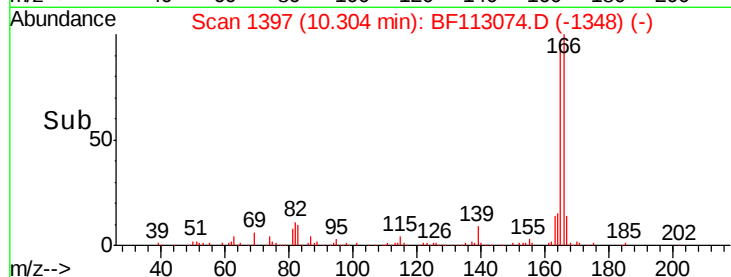
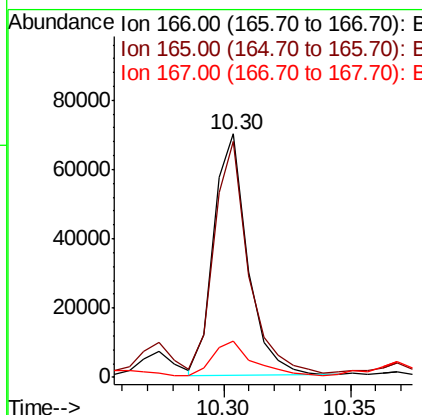
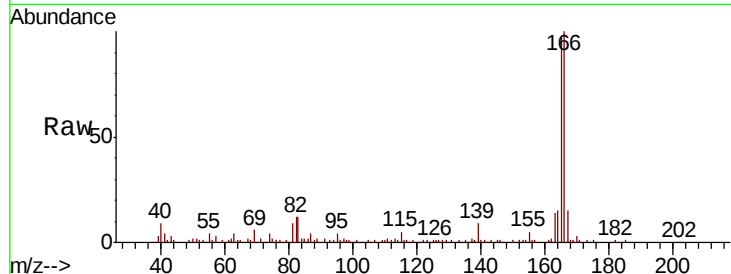
#58  
 Fluorene  
 Concen: 3.681 ng  
 RT: 10.30 min Scan# 1397  
 Delta R.T. -0.01 min  
 Lab File: BF113074.D  
 Acq: 15 Mar 2019 19:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-04-031419

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 166     | 100  |       |       |       |
| 165     | 96.9 | 74.7  | 112.1 |       |
| 167     | 14.8 | 11.0  | 16.6  |       |

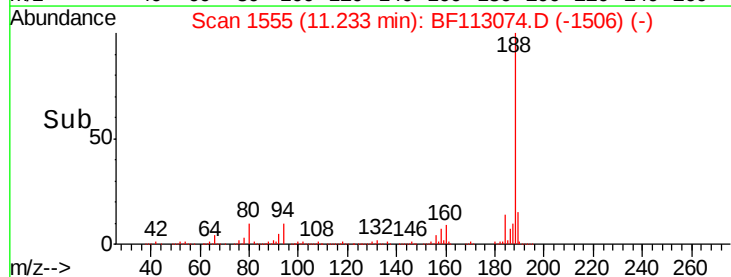
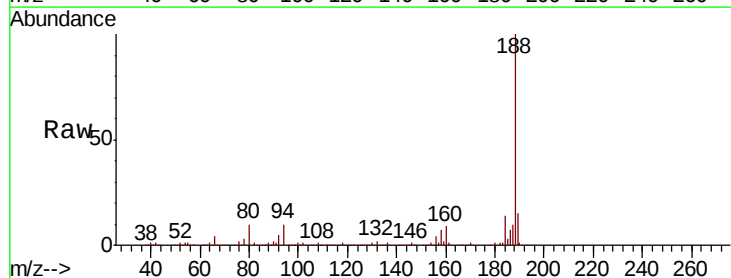
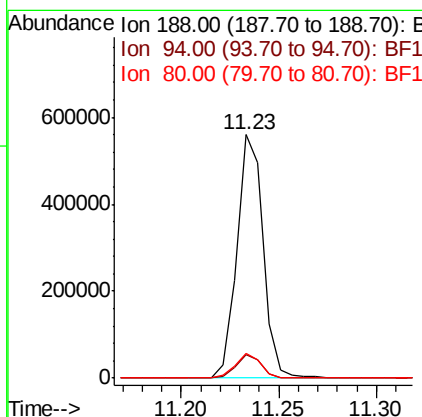
Manual Integrations  
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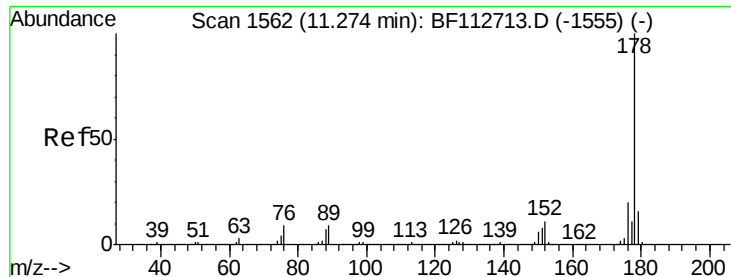
Sohil  
 3/18/2019 2:59:31 PM



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.23 min Scan# 1555  
 Delta R.T. -0.01 min  
 Lab File: BF113074.D  
 Acq: 15 Mar 2019 19:10

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 188     | 100  |       |       |       |
| 94      | 9.9  | 9.0   | 13.4  |       |
| 80      | 10.4 | 9.2   | 13.8  |       |





#71

Phenanthrene

Concen: 12.733 ng

RT: 11.26 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BF113074.D

Acq: 15 Mar 2019 19:10

Instrument :

BNA\_F

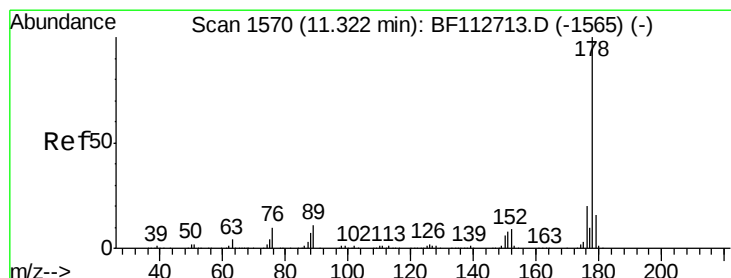
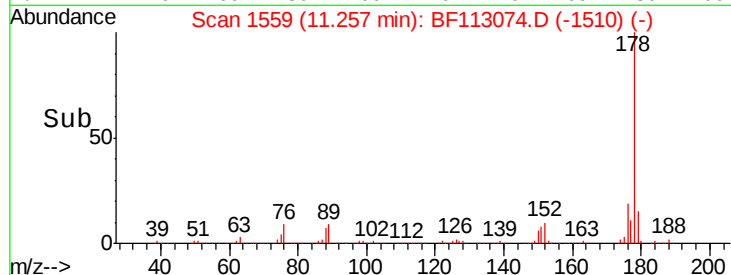
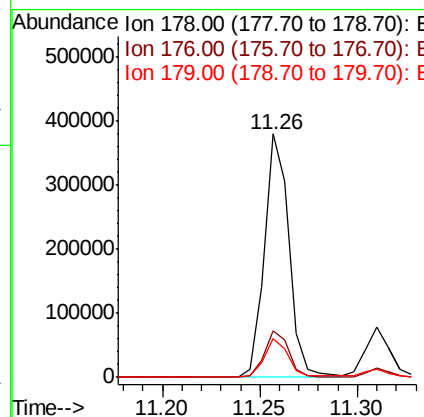
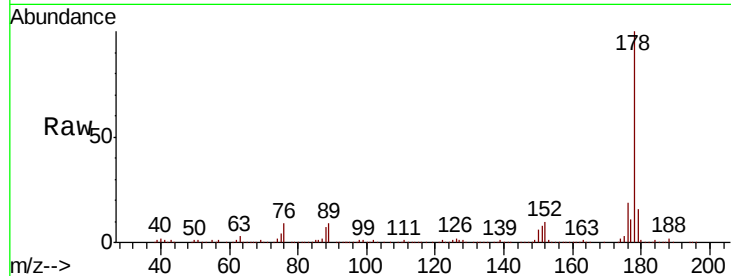
ClientSampleId :

TR-04-031419

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 330269 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.3  | 16.3  | 24.5   |
| 179       | 15.7  | 12.7  | 19.1   |

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#72

Anthracene

Concen: 2.320 ng

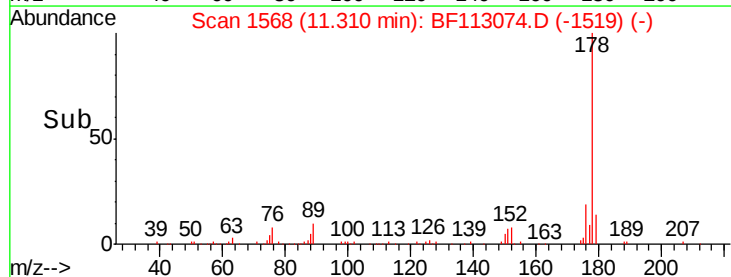
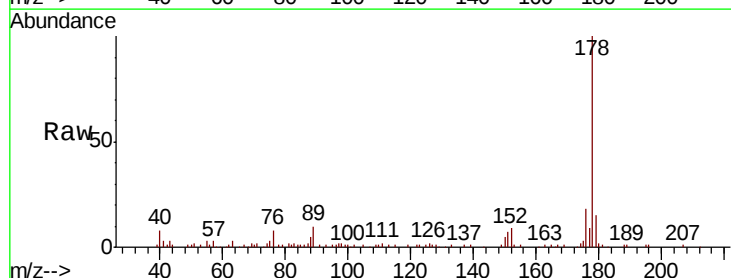
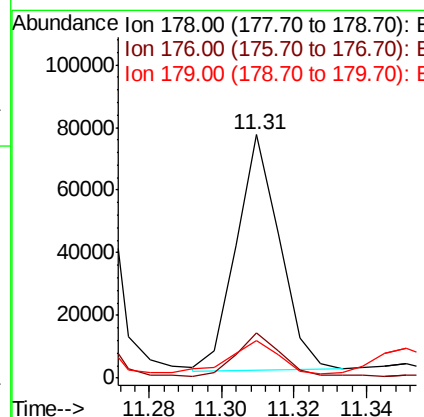
RT: 11.31 min Scan# 1568

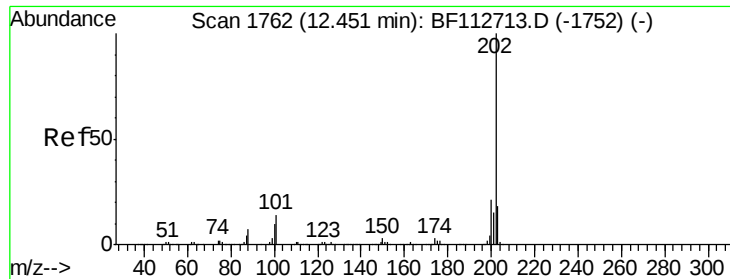
Delta R.T. -0.01 min

Lab File: BF113074.D

Acq: 15 Mar 2019 19:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 62992 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.5  | 15.8  | 23.6  |
| 179       | 15.3  | 13.0  | 19.6  |





#75

Fluoranthene

Concen: 4.376 ng/mL

RT: 12.44 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF113074.D

Acq: 15 Mar 2019 19:10

Instrument :

BNA\_F

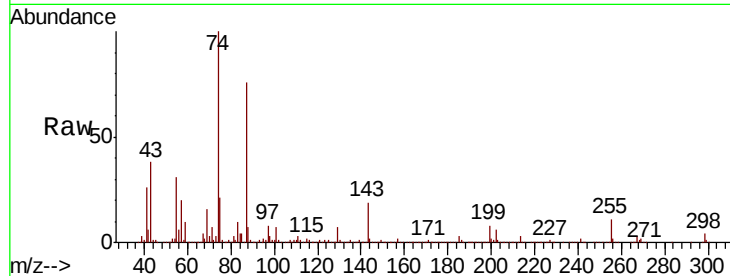
ClientSampled :

TR-04-031419

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 121602 |
| Ion Ratio |       | Lower | Upper  |
| 202       | 100   |       |        |
| 101       | 109.7 | 0.0   | 33.8#  |
| 203       | 17.9  | 0.0   | 38.4   |

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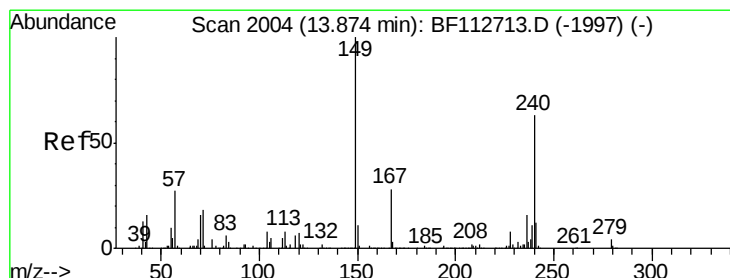
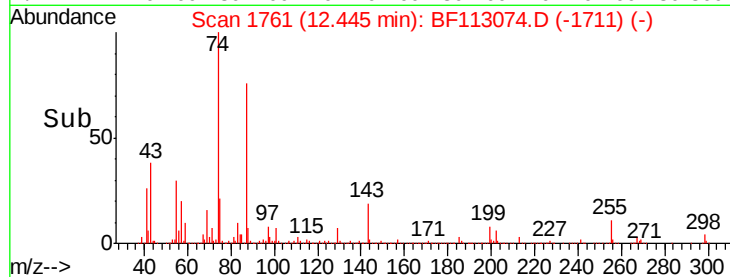
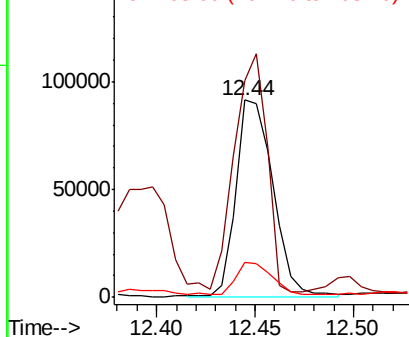


Abundance

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



#76

Chrysene-d12

Concen: 20.000 ng/mL

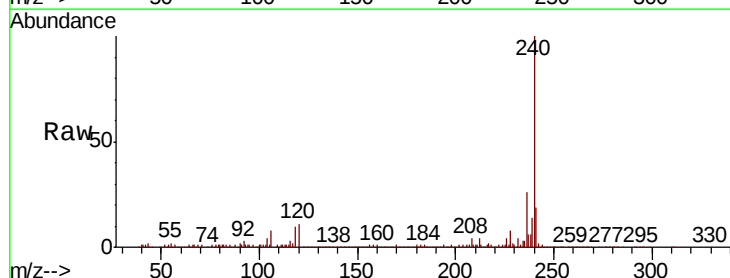
RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF113074.D

Acq: 15 Mar 2019 19:10

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 240  | Resp: | 396130 |
| Ion Ratio |      | Lower | Upper  |
| 240       | 100  |       |        |
| 120       | 11.4 | 8.9   | 13.3   |
| 236       | 26.1 | 20.7  | 31.1   |

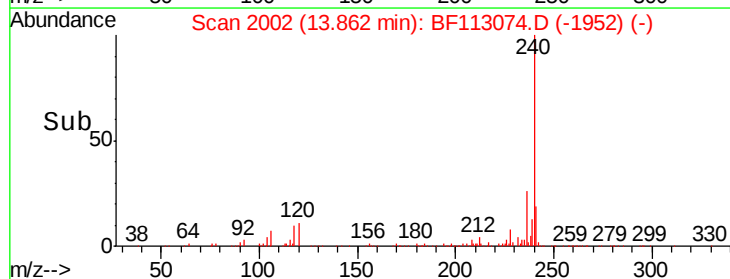
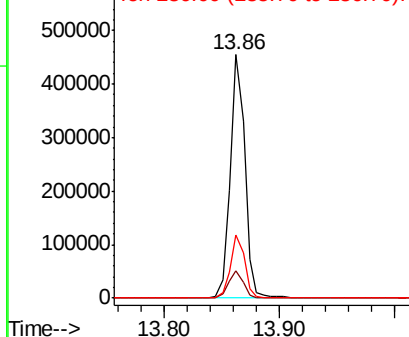


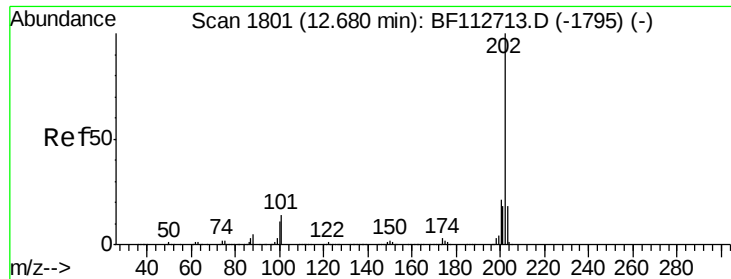
Abundance

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





#78

Pvrene

Concen: 7.340 ng

RT: 12.68 min Scan# 1801

Delta R.T. 0.01 min

Lab File: BF113074.D

Acq: 15 Mar 2019 19:10

Instrument :

BNA\_F

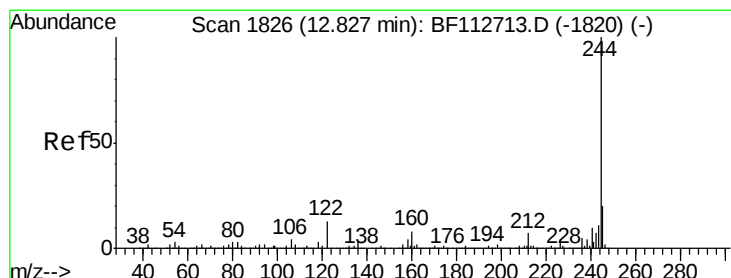
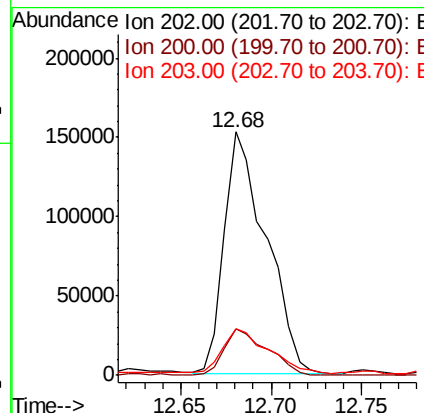
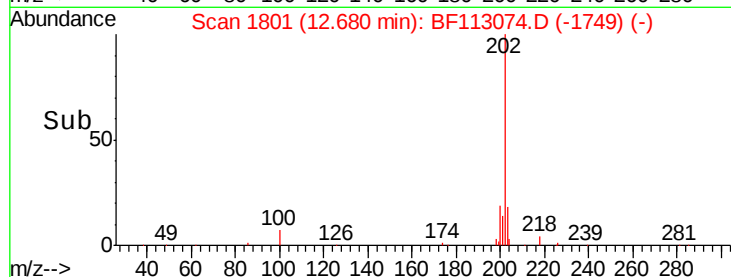
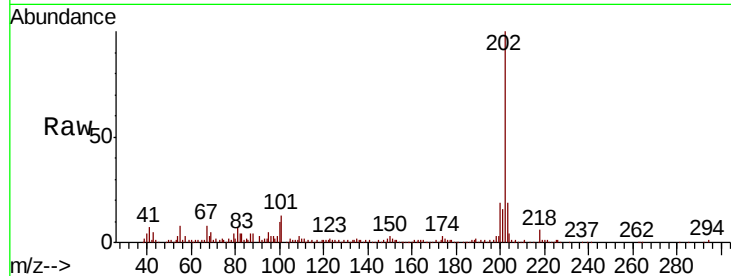
ClientSampleId :

TR-04-031419

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 245116 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 19.3  | 17.0  | 25.4   |
| 203       | 19.0  | 14.4  | 21.6   |

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#79

Terphenyl-d14

Concen: 12.112 ng

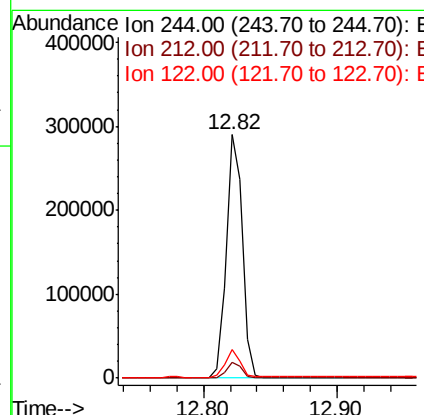
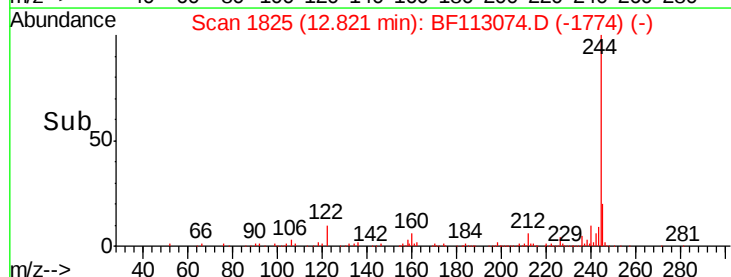
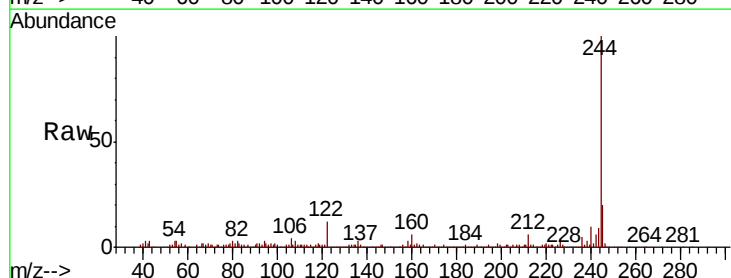
RT: 12.82 min Scan# 1825

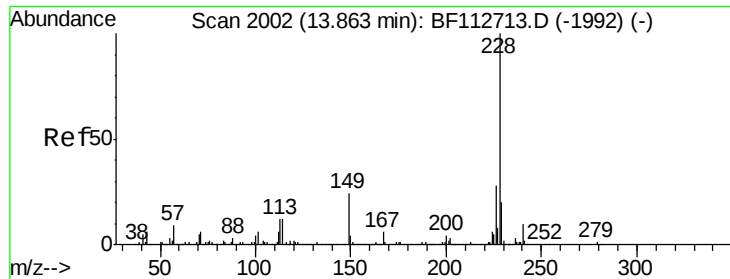
Delta R.T. -0.00 min

Lab File: BF113074.D

Acq: 15 Mar 2019 19:10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 247505 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.5   | 5.6   | 8.4    |
| 122       | 11.8  | 10.5  | 15.7   |





#81

Benzo(a)anthracene

Concen: 3.607 ng

RT: 13.85 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF113074.D

Acq: 15 Mar 2019 19:10

Instrument :

BNA\_F

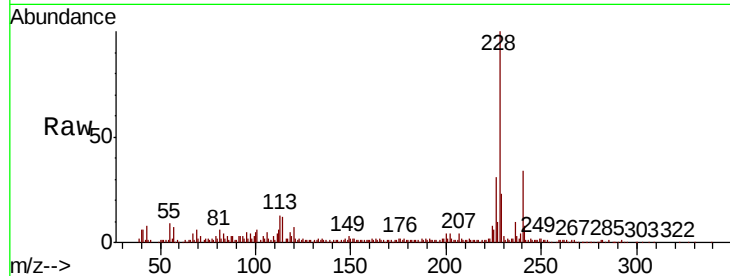
ClientSampled :

TR-04-031419

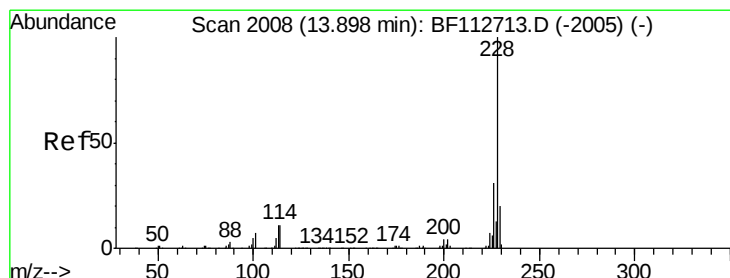
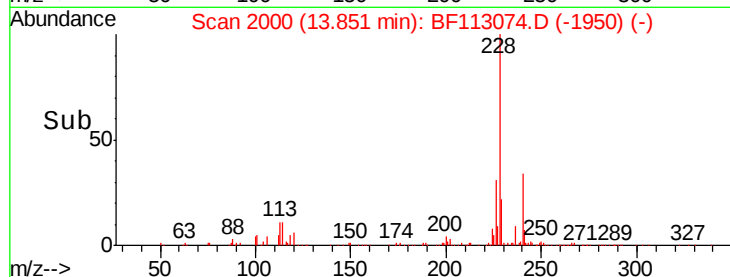
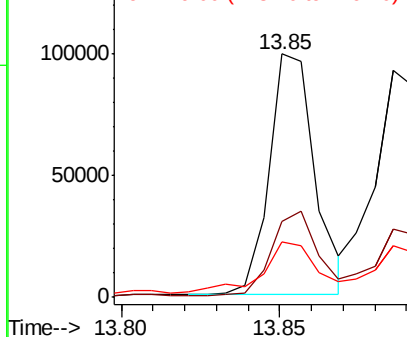
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 99039 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.2  | 22.2  | 33.4  |
| 229       | 22.7  | 16.0  | 24.0  |

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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

Chrysene

Concen: 3.707 ng

RT: 13.89 min Scan# 2006

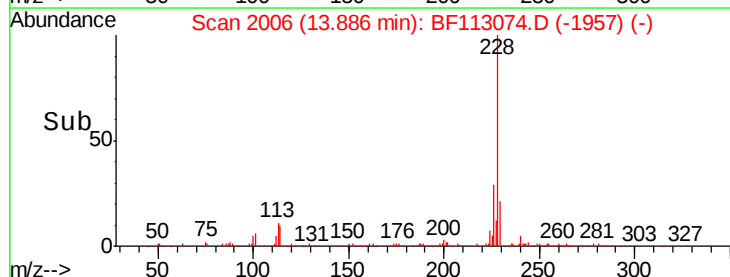
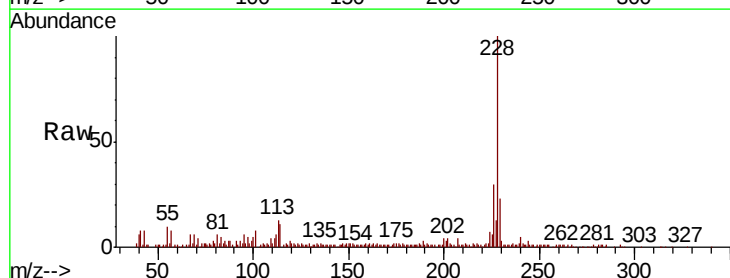
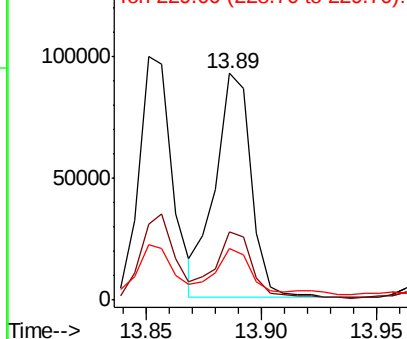
Delta R.T. -0.01 min

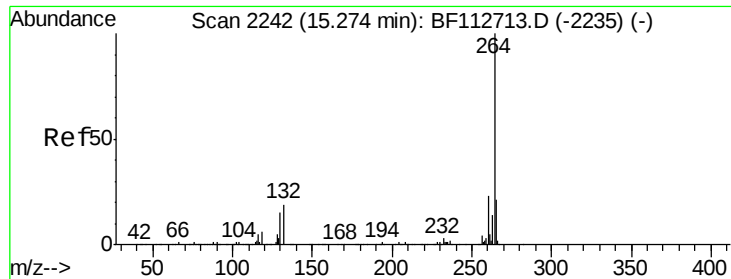
Lab File: BF113074.D

Acq: 15 Mar 2019 19:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 99702 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.0  | 24.9  | 37.3  |
| 229       | 22.9  | 16.3  | 24.5  |

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





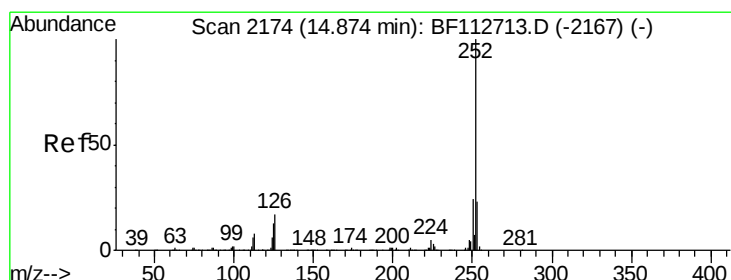
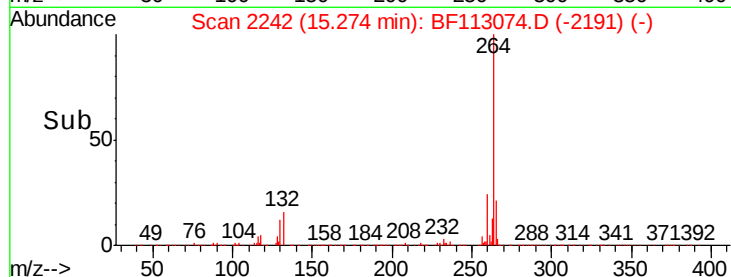
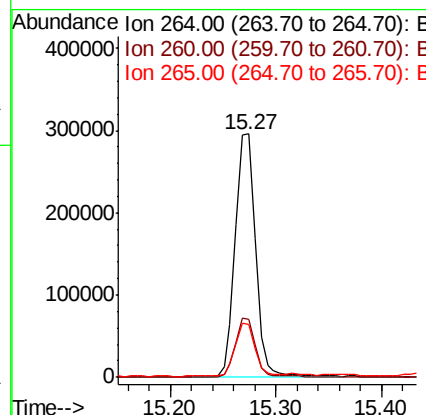
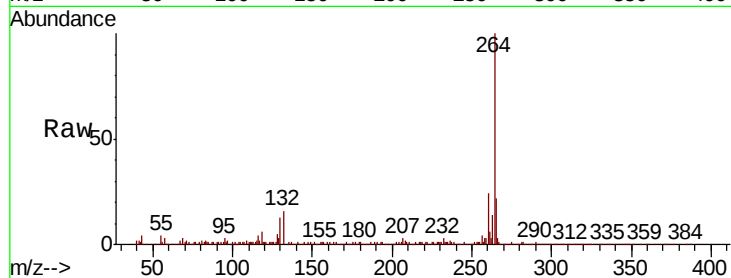
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.27 min Scan# 2242  
Delta R.T. -0.00 min  
Lab File: BF113074.D  
Acq: 15 Mar 2019 19:10

Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-031419

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 18.7  | 28.1  |
| 265     | 21.9  | 17.2  | 25.8  |

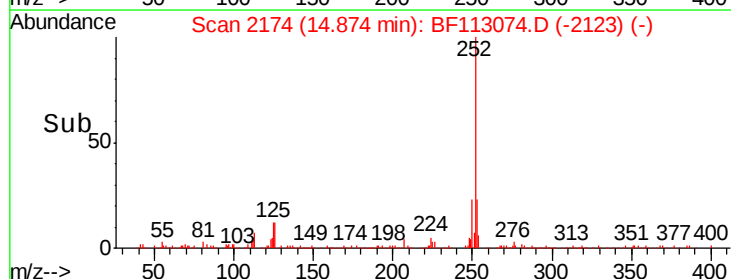
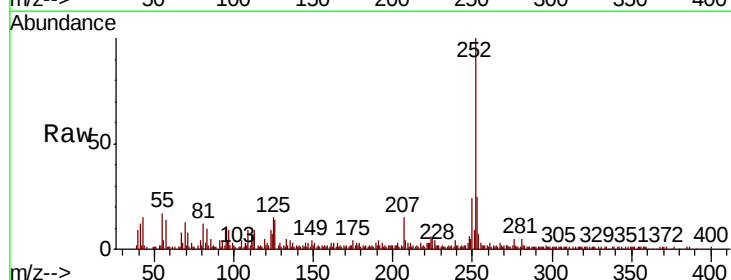
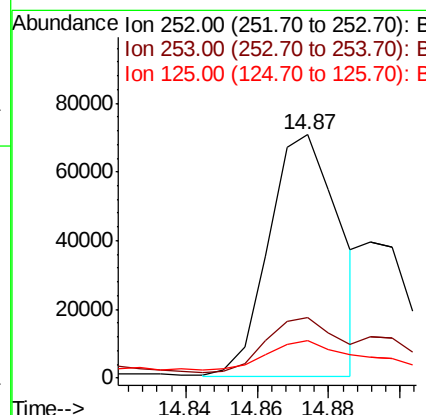
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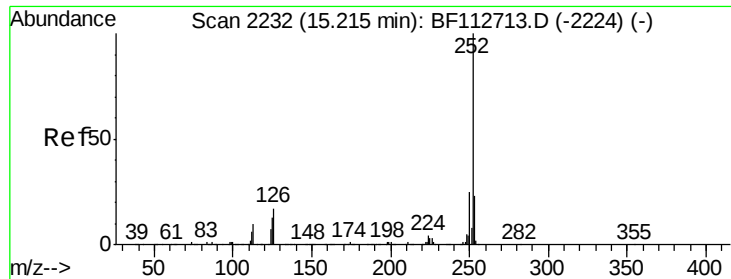
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#88  
Benzo(b)fluoranthene  
Concen: 3.803 ng m  
RT: 14.87 min Scan# 2174  
Delta R.T. -0.00 min  
Lab File: BF113074.D  
Acq: 15 Mar 2019 19:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 18.0  | 27.0  |
| 125     | 15.2  | 10.2  | 15.2  |





#90  
Benzo(a)pyrene  
Concen: 3.681 ng  
RT: 15.21 min Scan# 2231  
Delta R.T. -0.01 min  
Lab File: BF113074.D  
Acq: 15 Mar 2019 19:10

Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-031419

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 18.0  | 27.0  |
| 125     | 13.8  | 10.7  | 16.1  |

Manual Integrations  
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