

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
 Data File : BF113020.D  
 Acq On : 12 Mar 2019 23:23  
 Operator : JU/SJ  
 Sample : K1847-14 2X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-7B-C-1-031119

Manual Integrations  
 APPROVED

Sohil  
 3/13/2019 11:40:51 AM

Quant Time: Mar 13 04:48:16 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  | 190878   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.02  | 136  | 696032   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.76  | 164  | 288750   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.24 | 188  | 511451   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 13.86 | 240  | 530948   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.27 | 264  | 405479   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.34  | 112  | 680577   | 55.46  | ng    | 0.00     |
| 7) Phenol-d6                | 6.37  | 99   | 877990   | 56.96  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 510999   | 43.93  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.55 | 330  | 204928   | 66.85  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.09  | 172  | 915303   | 46.55  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.82 | 244  | 838049   | 30.60  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.38  | 94   | 64063    | 3.562  | ng    | 86       |
| 50) Dimethylphthalate       | 9.48  | 163  | 87087    | 4.090  | ng    | 99       |
| 71) Phenanthrene            | 11.26 | 178  | 149309   | 5.868  | ng    | 98       |
| 75) Fluoranthene            | 12.44 | 202  | 359465   | 13.185 | ng    | 95       |
| 78) Pyrene                  | 12.67 | 202  | 312018   | 6.971  | ng    | 97       |
| 81) Benzo(a)anthracene      | 13.86 | 228  | 180678   | 4.910  | ng    | 99       |
| 83) Chrysene                | 13.89 | 228  | 181544   | 5.037  | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 14.87 | 252  | 181475m  | 6.919  | ng    |          |
| 89) Benzo(k)fluoranthene    | 14.89 | 252  | 79869m   | 3.362  | ng    |          |
| 90) Benzo(a)pyrene          | 15.21 | 252  | 120757   | 5.205  | ng    | 98       |
| 92) Benzo(g,h,i)perylene    | 17.03 | 276  | 60622    | 3.050  | ng    | 97       |

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

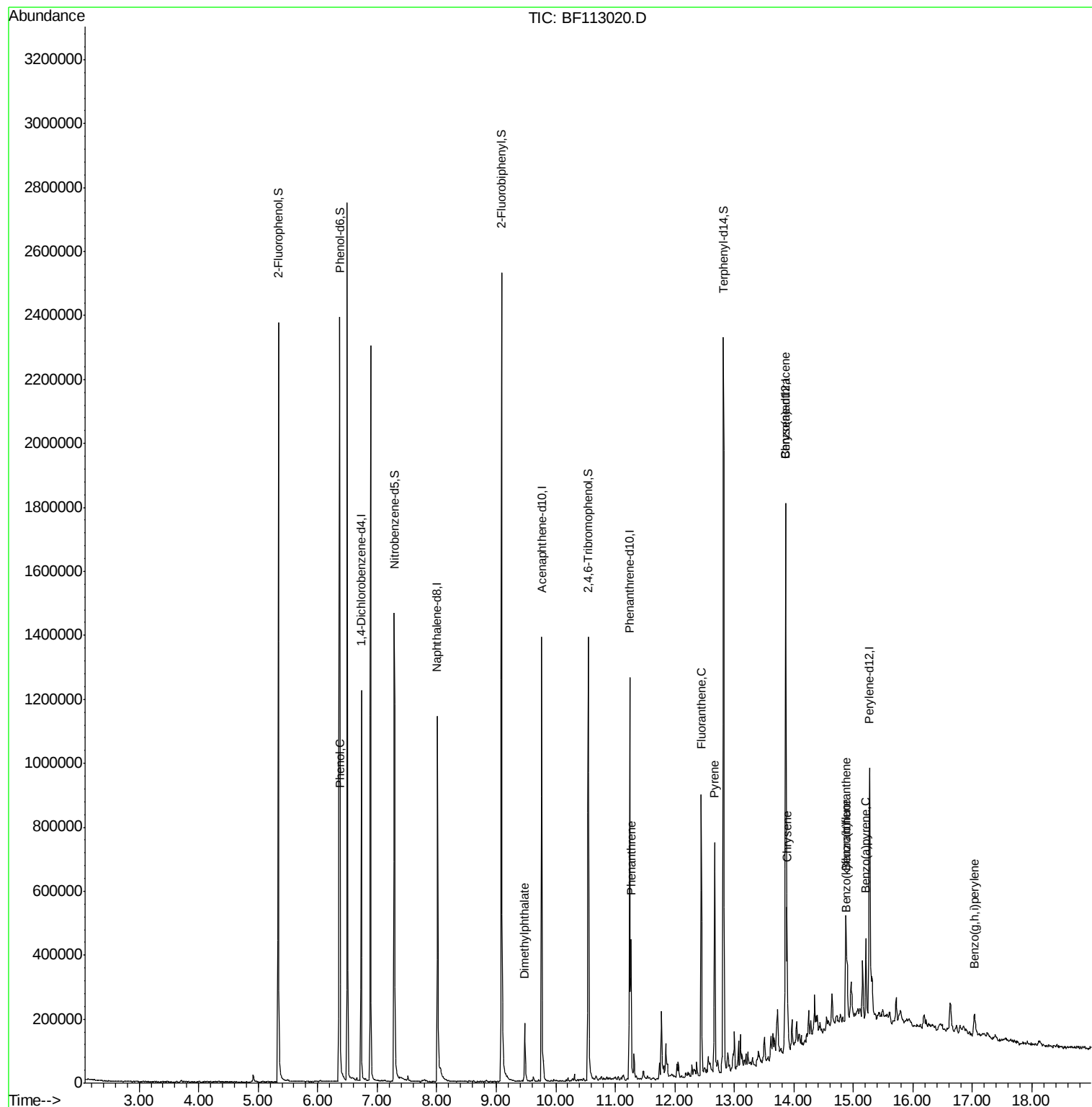
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113020.D  
Acq On : 12 Mar 2019 23:23  
Operator : JU/SJ  
Sample : K1847-14 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

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Quant Time: Mar 13 04:48:16 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  
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#1

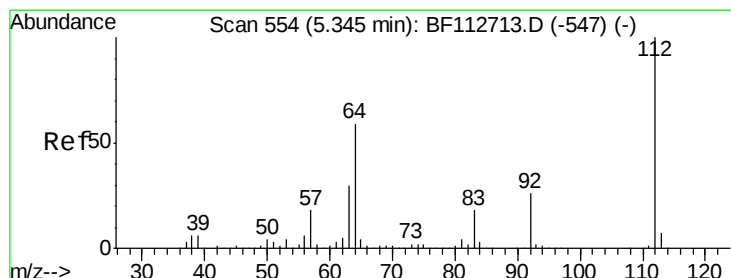
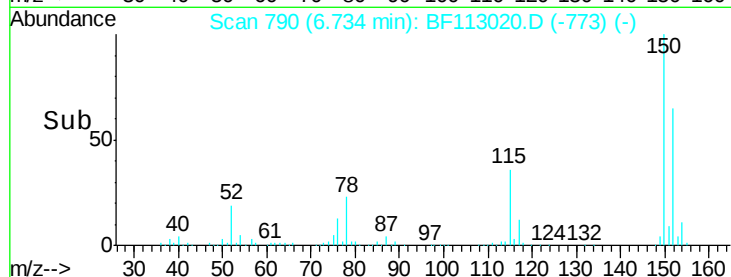
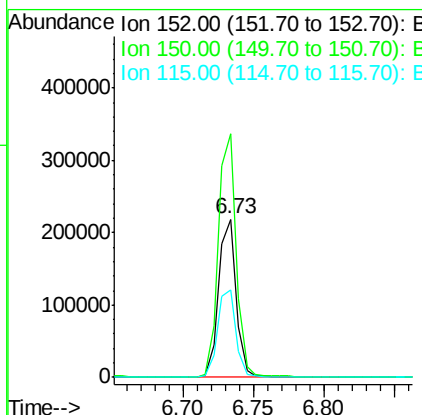
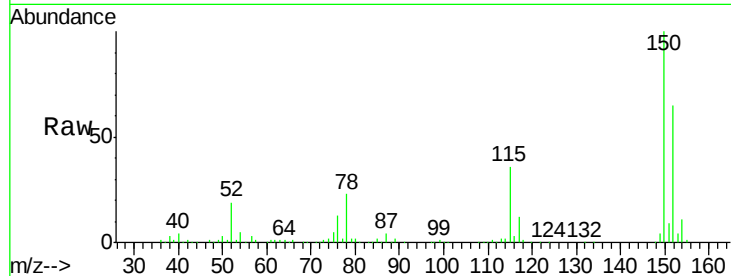
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 790  
Delta R.T. -0.00 min  
Lab File: BF113020.D  
Acq: 12 Mar 2019 23:23

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-7B-C-1-031119

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.9 | 124.2 | 186.2 |
| 115     | 55.2  | 48.2  | 72.4  |

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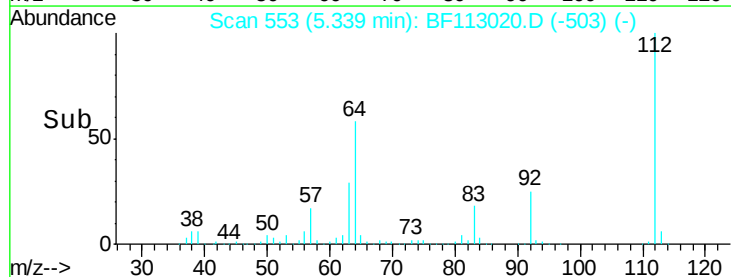
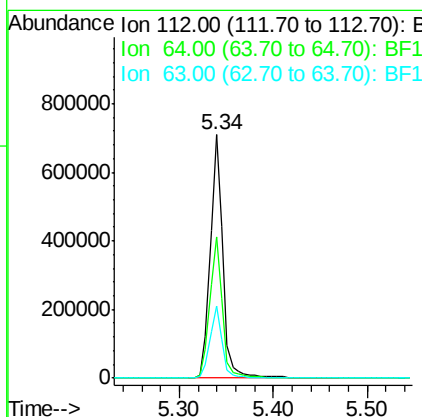
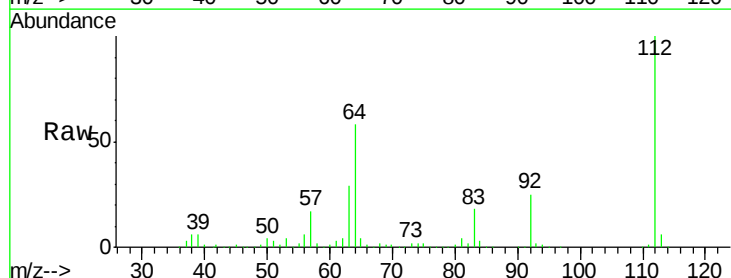
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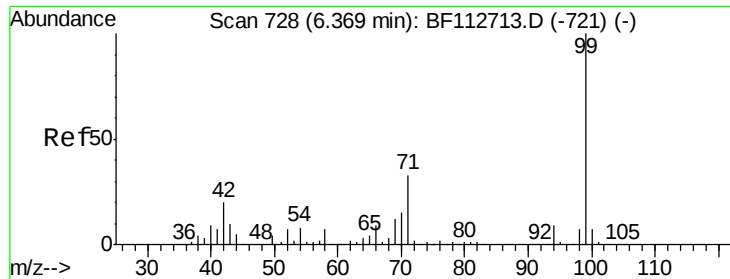


#5

2-Fluorophenol  
Concen: 55.463 ng  
RT: 5.34 min Scan# 553  
Delta R.T. -0.01 min  
Lab File: BF113020.D  
Acq: 12 Mar 2019 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.2  | 47.6  | 71.4  |
| 63      | 29.4  | 24.4  | 36.6  |





#7

Phenol-d6

Concen: 56.960 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113020.D

Acq: 12 Mar 2019 23:23

Instrument :

BNA\_F

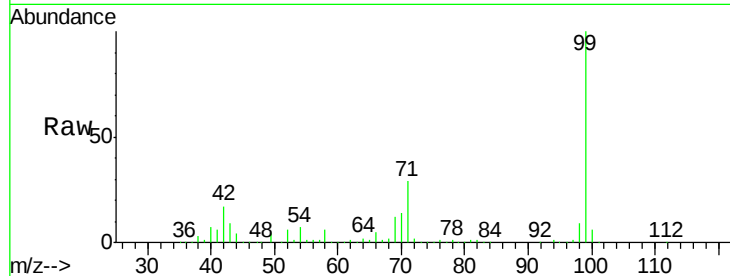
ClientSampleId :

SUP-7B-C-1-031119

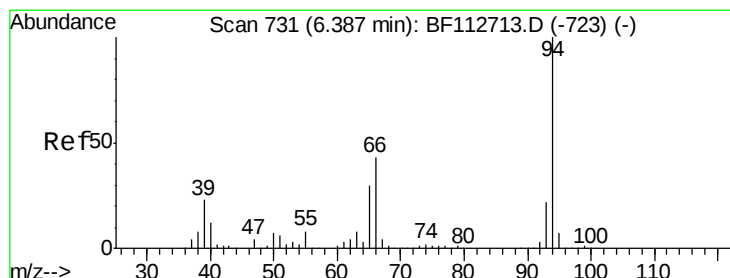
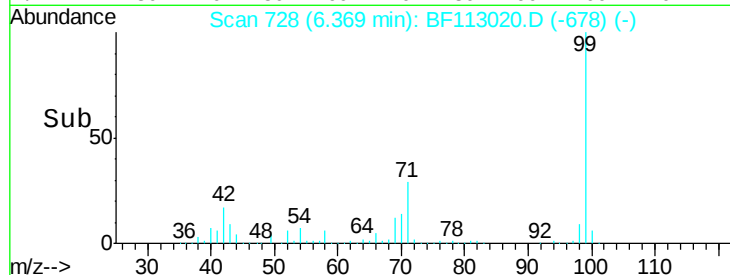
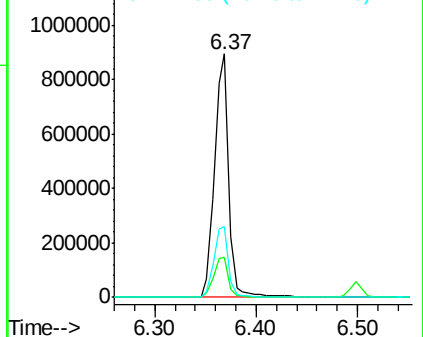
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 877990 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 16.6  | 16.3  | 24.5   |
| 71       | 29.3  | 26.2  | 39.4   |

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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



#10

Phenol

Concen: 3.562 ng

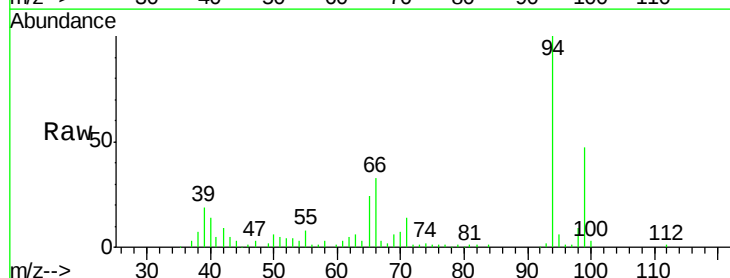
RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

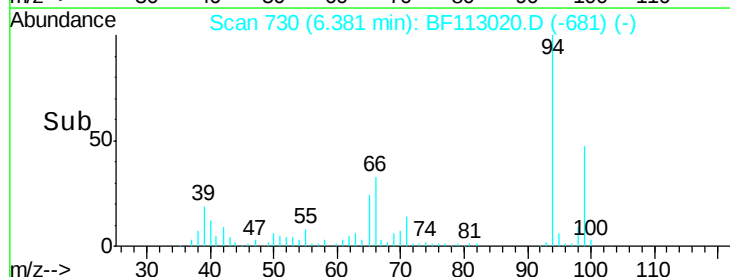
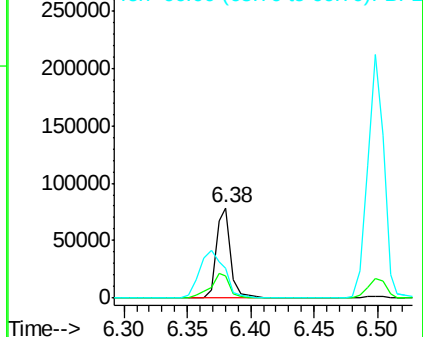
Lab File: BF113020.D

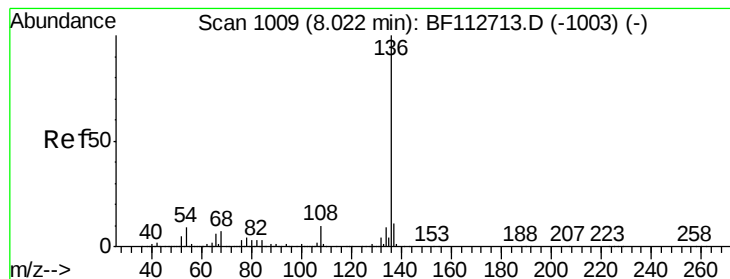
Acq: 12 Mar 2019 23:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 64063 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 24.4  | 10.5  | 50.5  |
| 66       | 32.8  | 22.6  | 62.6  |



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: 8.02 min Scan# 1008

Delta R.T. -0.00 min

Lab File: BF113020.D

Acq: 12 Mar 2019 23:23

Instrument :

BNA\_F

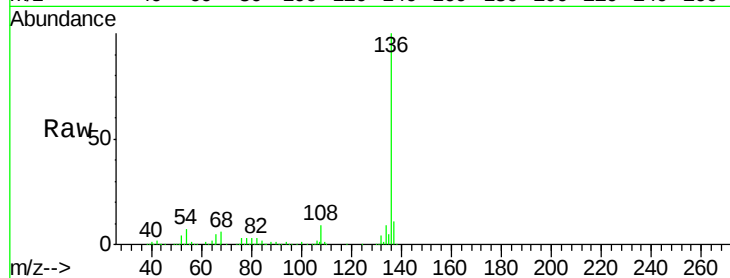
ClientSampleId :

SUP-7B-C-1-031119

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 696032 |       |       |
| 137     | 10.8  |        | 8.9   | 13.3  |
| 54      | 7.4   |        | 7.3   | 10.9  |
| 68      | 5.8   |        | 5.4   | 8.2   |

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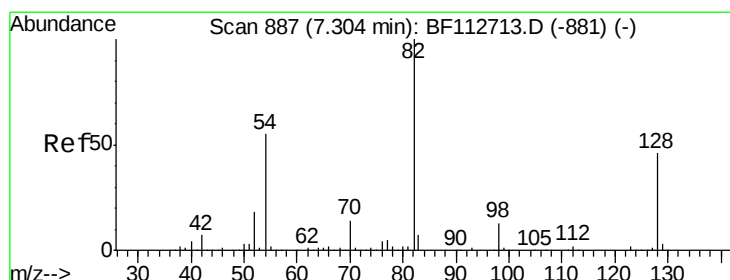
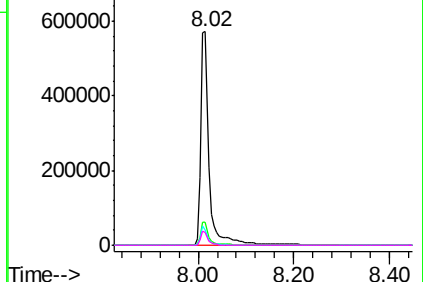
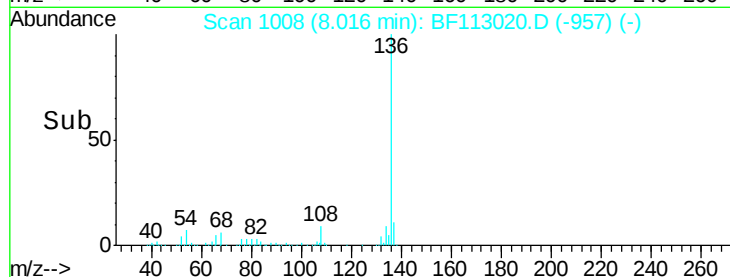


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 43.931 ng

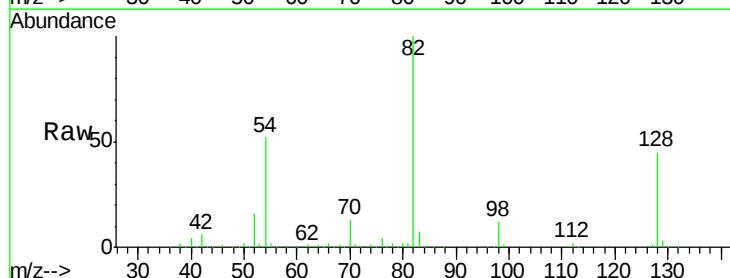
RT: 7.29 min Scan# 884

Delta R.T. -0.01 min

Lab File: BF113020.D

Acq: 12 Mar 2019 23:23

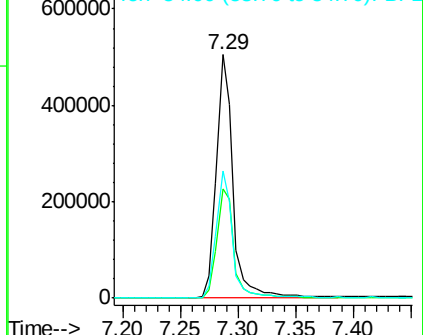
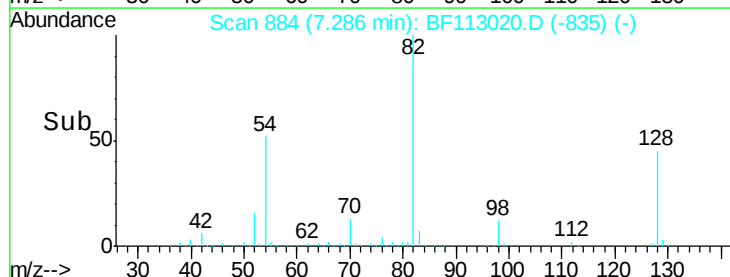
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 510999 |       |       |
| 128     | 44.9  |        | 36.3  | 54.5  |
| 54      | 52.4  |        | 43.7  | 65.5  |



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





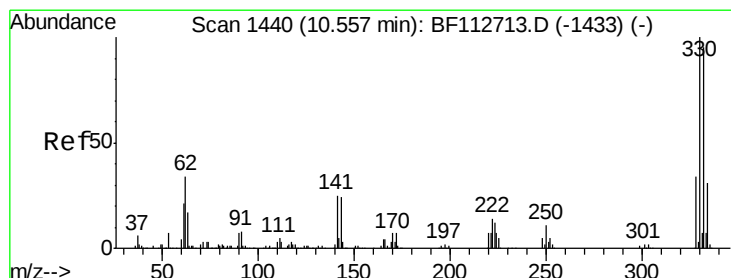
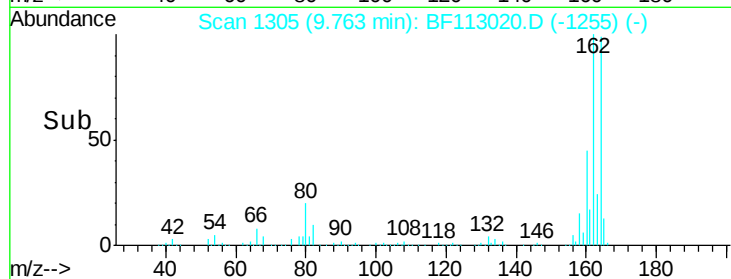
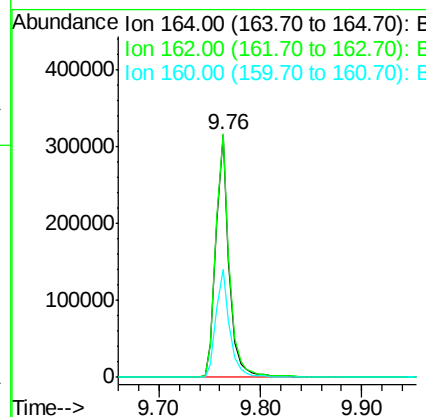
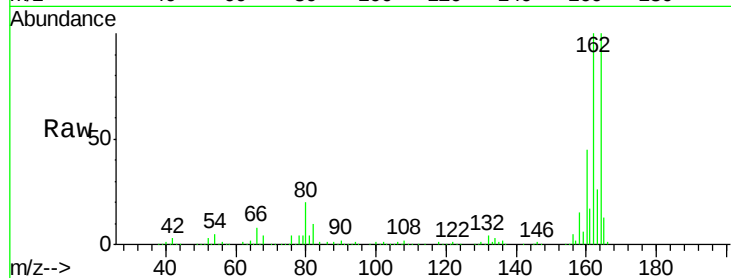
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. -0.01 min  
Lab File: BF113020.D  
Acq: 12 Mar 2019 23:23

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-7B-C-1-031119

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 288750 |       |       |
| 162     | 100.4 | 80.6   | 120.8 |       |
| 160     | 44.7  | 36.0   | 54.0  |       |

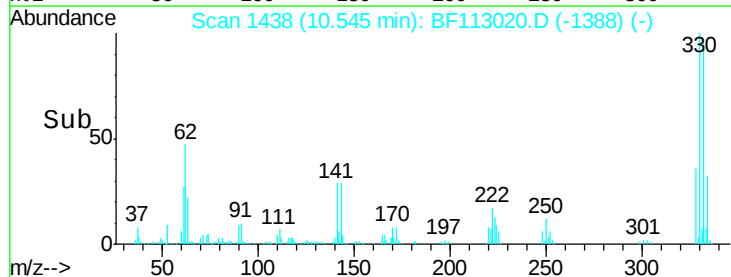
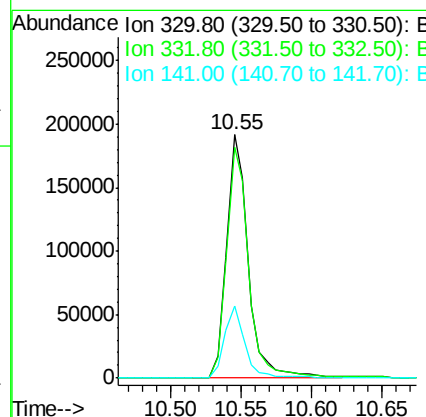
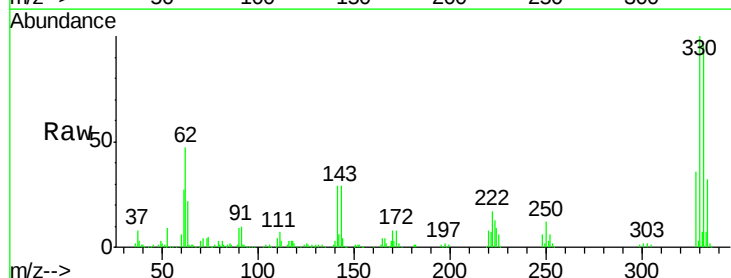
Manual Integrations  
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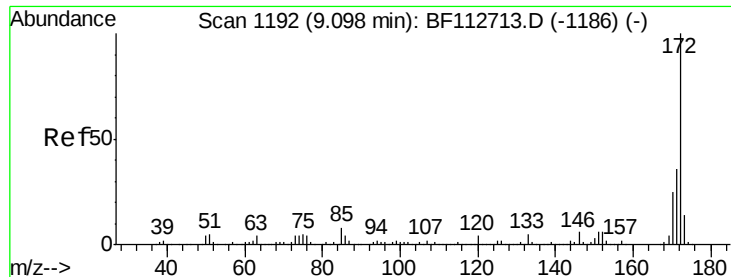
Sohil  
3/13/2019 11:40:51 AM



#42  
2,4,6-Tribromophenol  
Concen: 66.851 ng  
RT: 10.55 min Scan# 1438  
Delta R.T. -0.01 min  
Lab File: BF113020.D  
Acq: 12 Mar 2019 23:23

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 204928 |       |       |
| 332     | 98.3  | 76.2   | 114.4 |       |
| 141     | 28.8  | 27.0   | 40.6  |       |





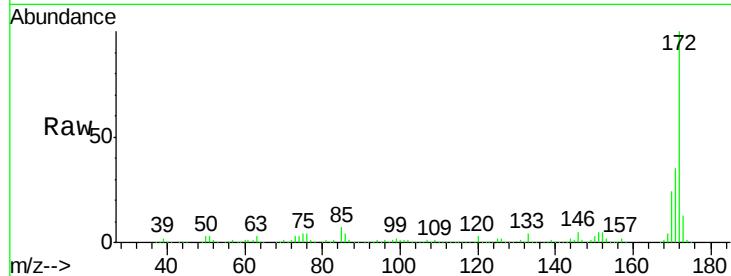
#45  
2-Fluorobiphenyl  
Concen: 46.552 ng  
RT: 9.09 min Scan# 1190  
Delta R.T. -0.01 min  
Lab File: BF113020.D  
Acq: 12 Mar 2019 23:23

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-7B-C-1-031119

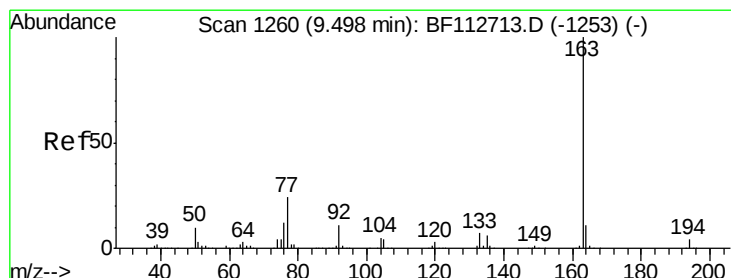
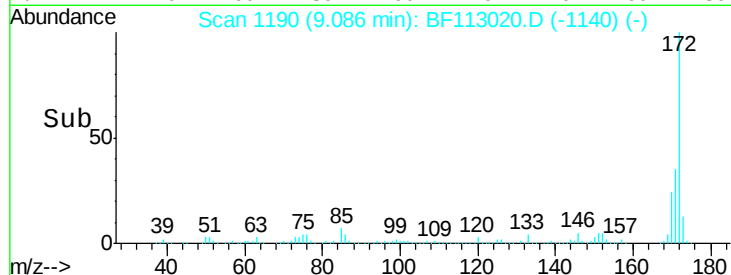
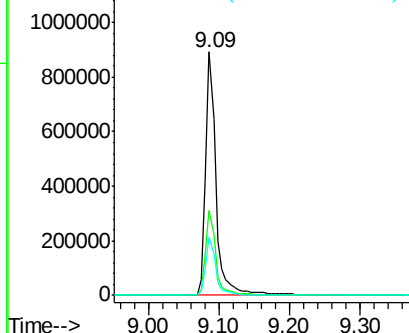
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.9  | 29.0  | 43.4  |
| 170     | 23.6  | 20.0  | 30.0  |

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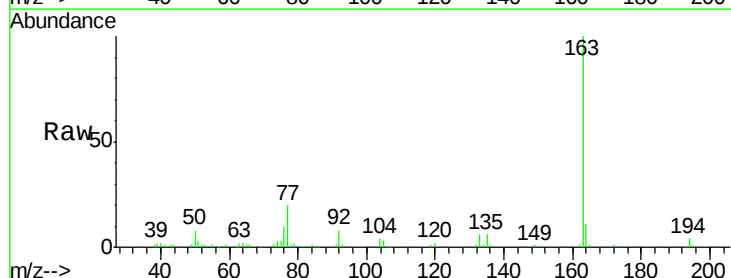


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

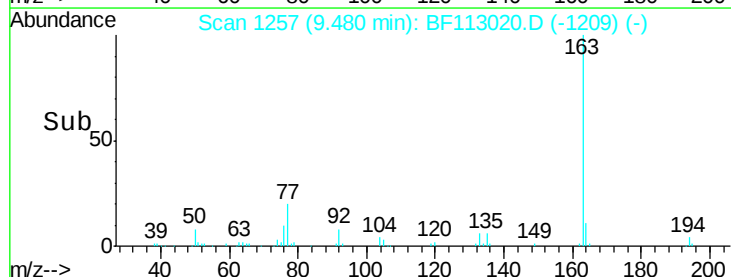
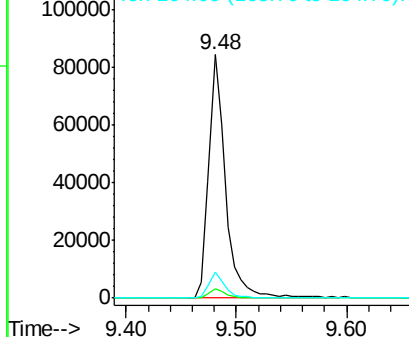


#50  
Dimethylphthalate  
Concen: 4.090 ng  
RT: 9.48 min Scan# 1257  
Delta R.T. -0.02 min  
Lab File: BF113020.D  
Acq: 12 Mar 2019 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.7   | 3.0   | 4.4   |
| 164     | 10.8  | 8.4   | 12.6  |



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





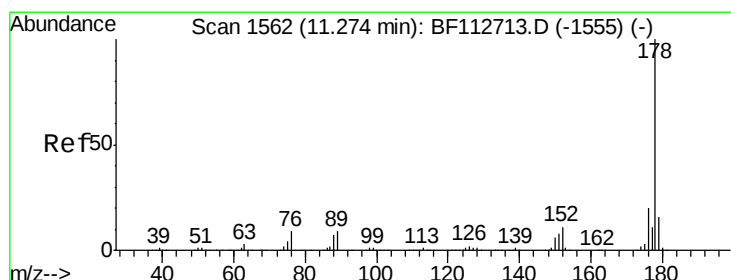
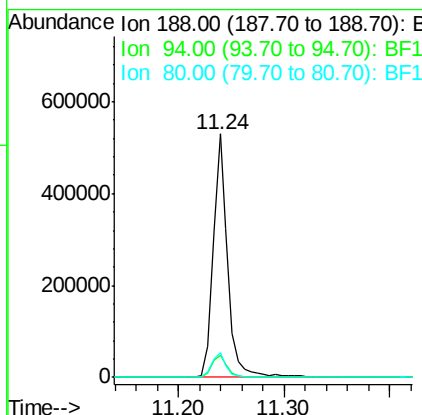
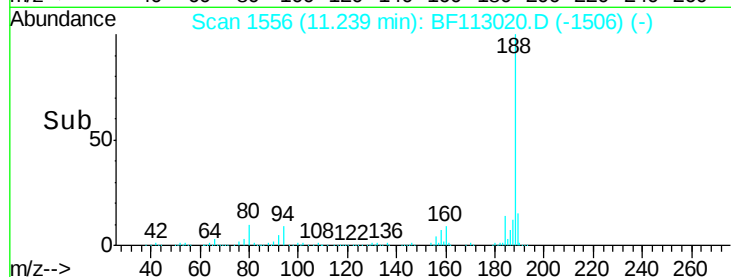
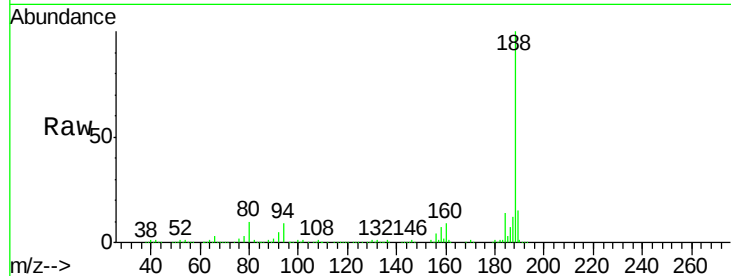
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.24 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF113020.D  
Acq: 12 Mar 2019 23:23

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-7B-C-1-031119

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 511451 |       |       |
| 94      | 9.3   |        | 9.0   | 13.4  |
| 80      | 10.2  |        | 9.2   | 13.8  |

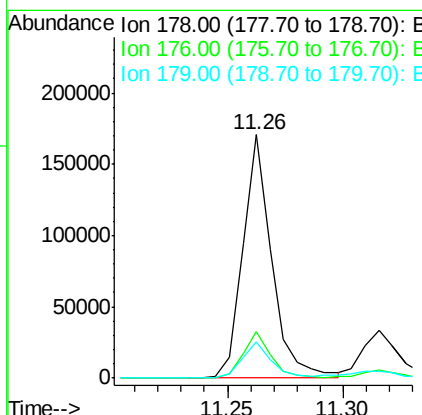
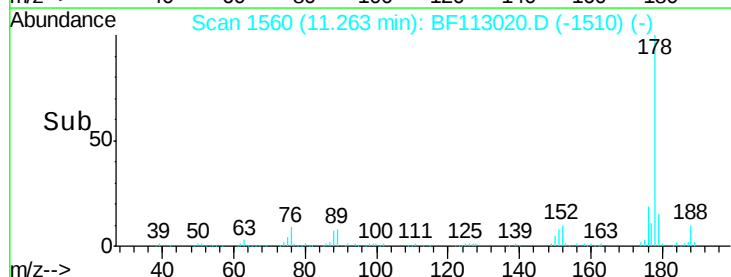
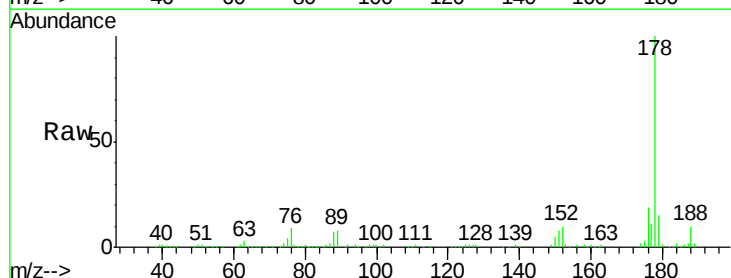
Manual Integrations  
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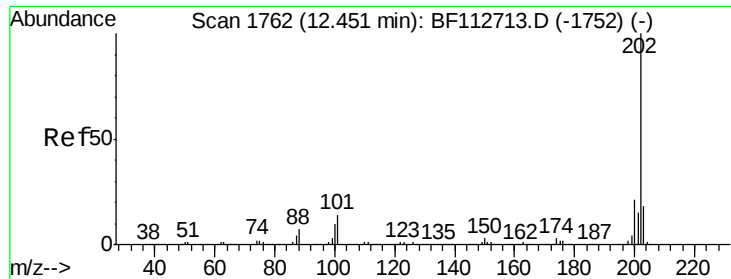
Sohil  
3/13/2019 11:40:51 AM



#71  
Phenanthrene  
Concen: 5.868 ng  
RT: 11.26 min Scan# 1560  
Delta R.T. -0.01 min  
Lab File: BF113020.D  
Acq: 12 Mar 2019 23:23

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 149309 |       |       |
| 176     | 19.3  |        | 16.3  | 24.5  |
| 179     | 15.0  |        | 12.7  | 19.1  |





#75

Fluoranthene

Concen: 13.185 ng

RT: 12.44 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF113020.D

Acq: 12 Mar 2019 23:23

Instrument :

BNA\_F

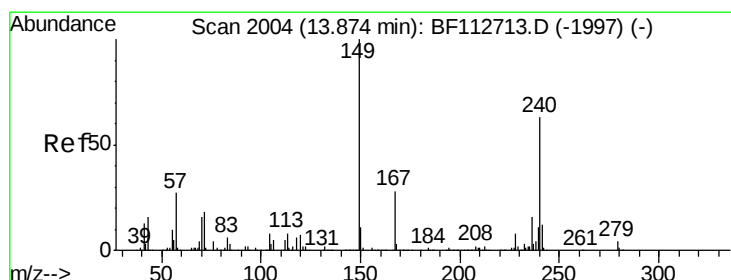
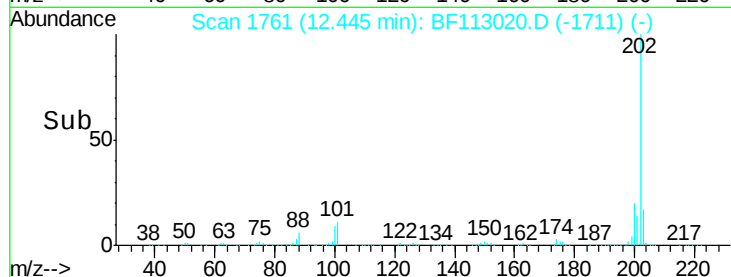
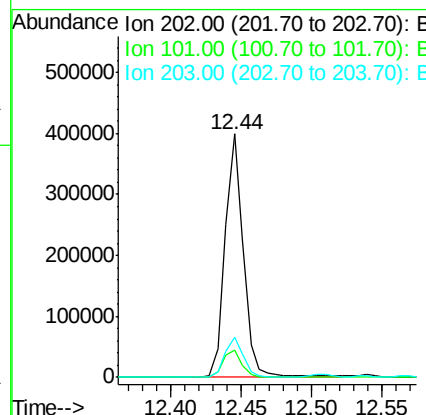
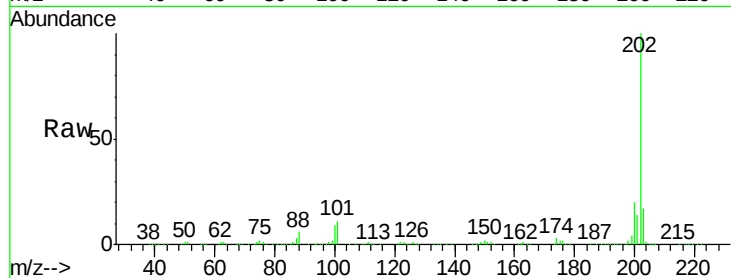
ClientSampleId :

SUP-7B-C-1-031119

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 359465 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.2  | 0.0   | 33.8   |
| 203       | 16.7  | 0.0   | 38.4   |

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#76

Chrysene-d12

Concen: 20.000 ng

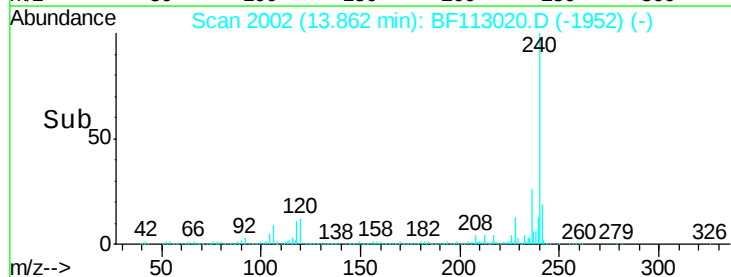
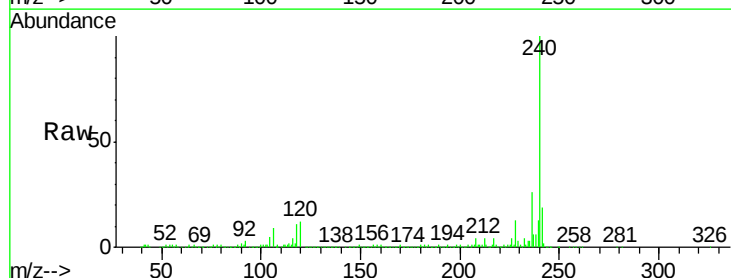
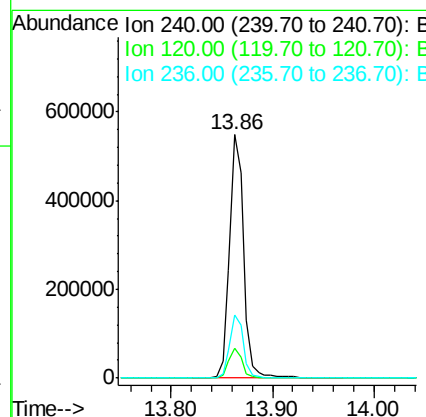
RT: 13.86 min Scan# 2002

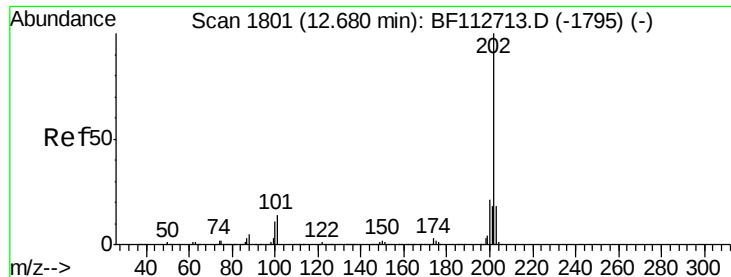
Delta R.T. -0.01 min

Lab File: BF113020.D

Acq: 12 Mar 2019 23:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 530948 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 12.5  | 8.9   | 13.3   |
| 236       | 25.7  | 20.7  | 31.1   |





#78

Pvrene

Concen: 6.971 ng

RT: 12.67 min Scan# 1799

Delta R.T. -0.01 min

Lab File: BF113020.D

Acq: 12 Mar 2019 23:23

Instrument :

BNA\_F

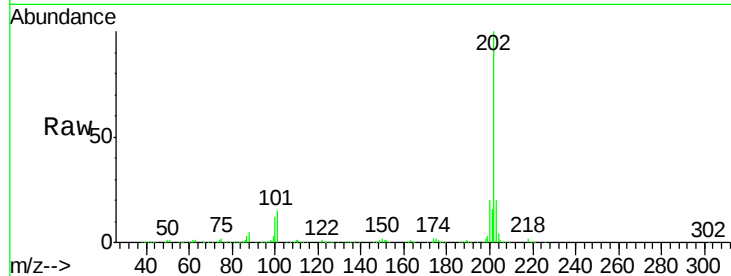
ClientSampleId :

SUP-7B-C-1-031119

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 312018 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 200       | 20.2 | 17.0  | 25.4   |
| 203       | 19.6 | 14.4  | 21.6   |

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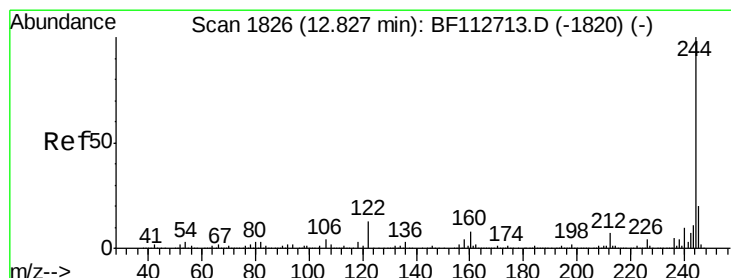
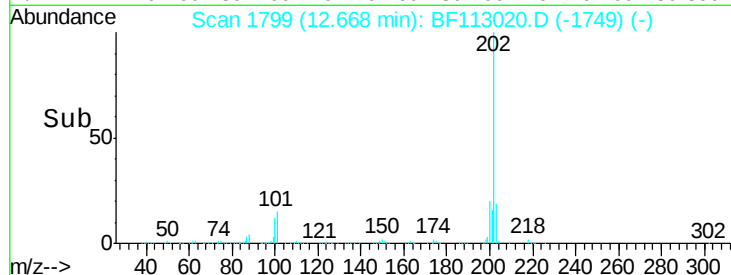
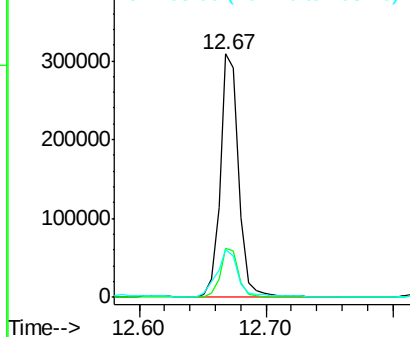


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 30.597 ng

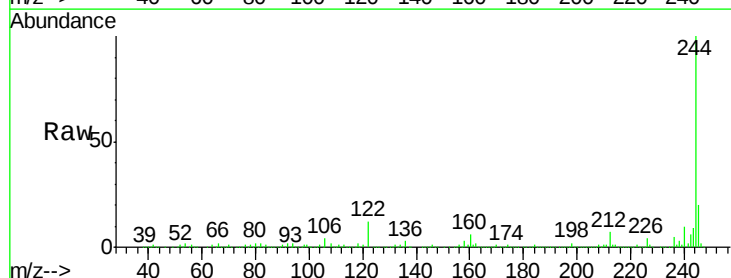
RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF113020.D

Acq: 12 Mar 2019 23:23

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 244  | Resp: | 838049 |
| Ion Ratio |      | Lower | Upper  |
| 244       | 100  |       |        |
| 212       | 6.6  | 5.6   | 8.4    |
| 122       | 12.2 | 10.5  | 15.7   |

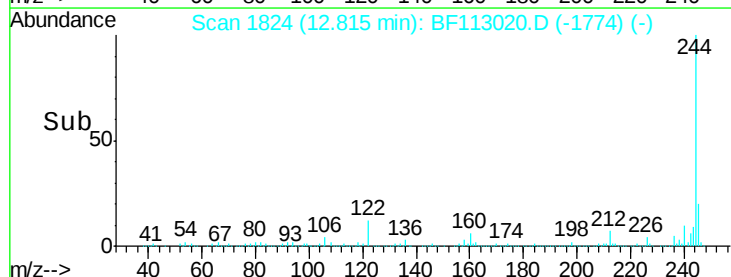
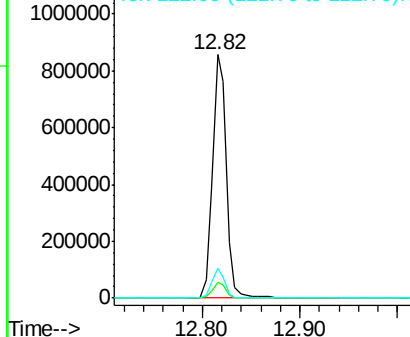


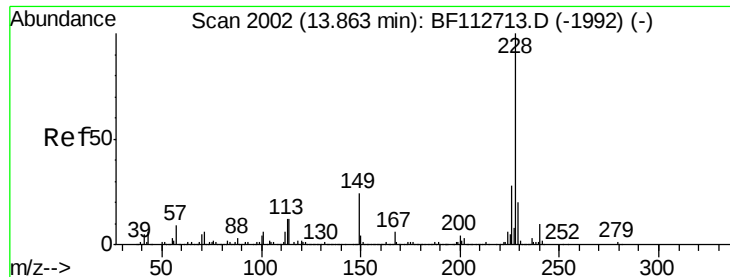
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





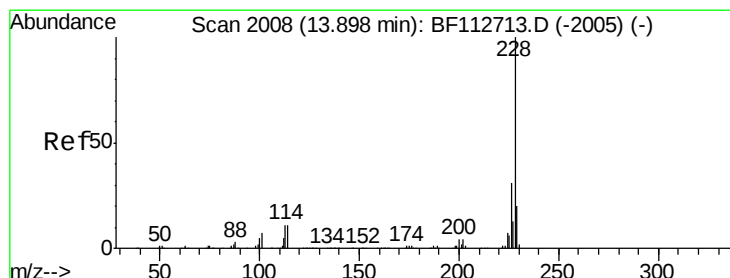
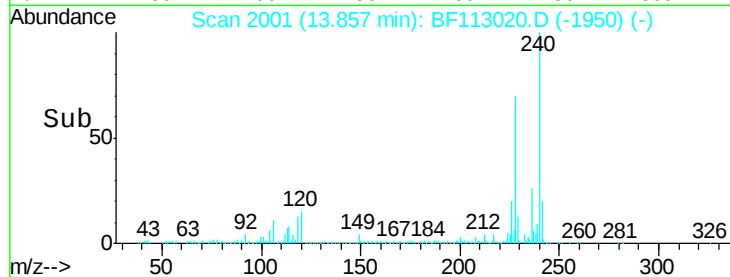
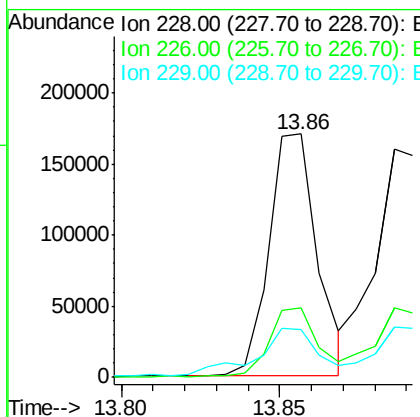
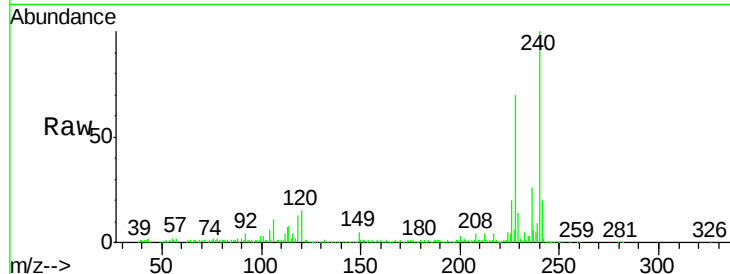
#81  
Benzo(a)anthracene  
Concen: 4.910 ng  
RT: 13.86 min Scan# 2001  
Delta R.T. -0.00 min  
Lab File: BF113020.D  
Acq: 12 Mar 2019 23:23

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-7B-C-1-031119

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.7  | 22.2  | 33.4  |
| 229     | 19.6  | 16.0  | 24.0  |

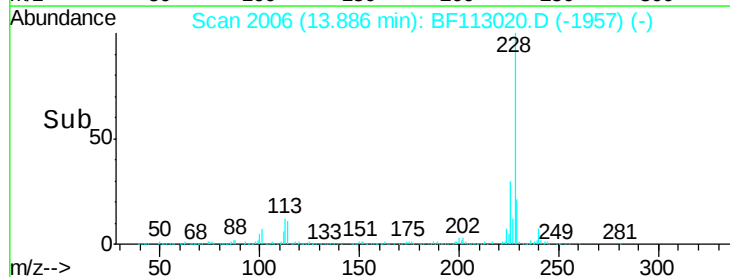
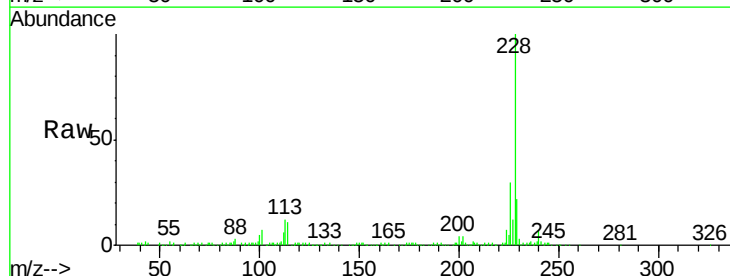
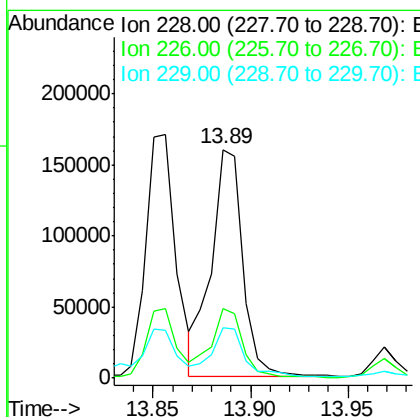
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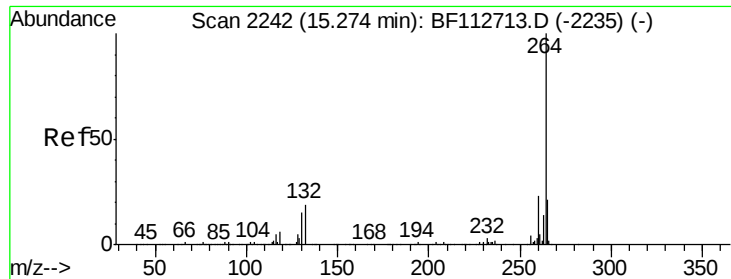
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#83  
Chrysene  
Concen: 5.037 ng  
RT: 13.89 min Scan# 2006  
Delta R.T. -0.01 min  
Lab File: BF113020.D  
Acq: 12 Mar 2019 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 24.9  | 37.3  |
| 229     | 22.1  | 16.3  | 24.5  |





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.27 min Scan# 2242

Delta R.T. -0.00 min

Lab File: BF113020.D

Acq: 12 Mar 2019 23:23

Instrument :

BNA\_F

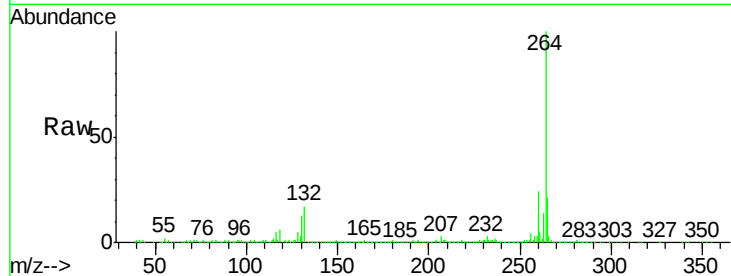
ClientSampleId :

SUP-7B-C-1-031119

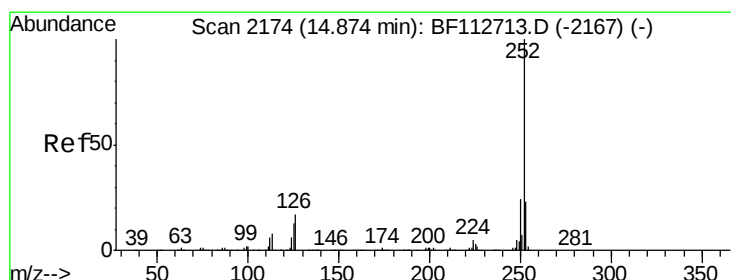
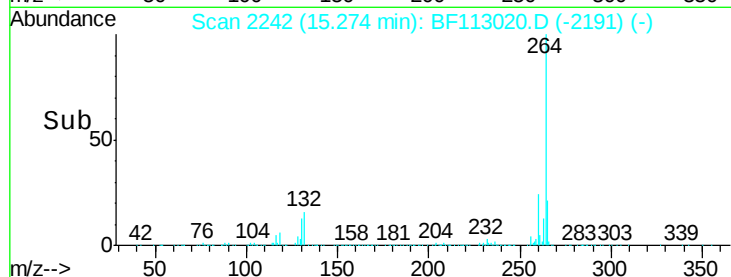
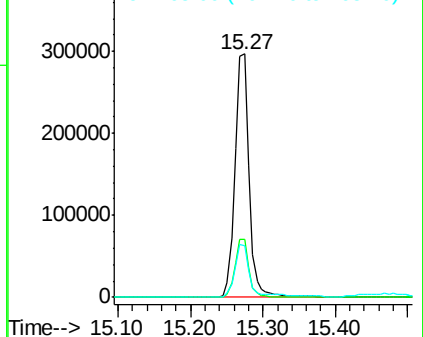
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 264  | Resp: | 405479 |
| Ion Ratio |      | Lower | Upper  |
| 264       | 100  |       |        |
| 260       | 23.9 | 18.7  | 28.1   |
| 265       | 21.1 | 17.2  | 25.8   |

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Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 6.919 ng m

RT: 14.87 min Scan# 2174

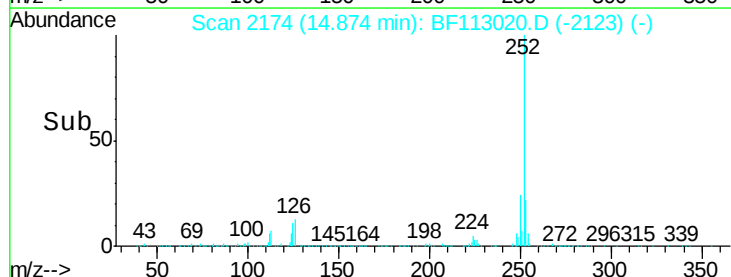
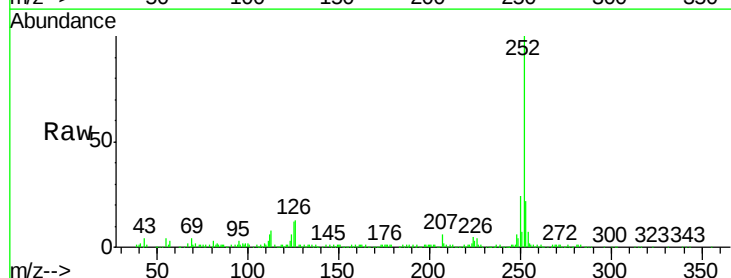
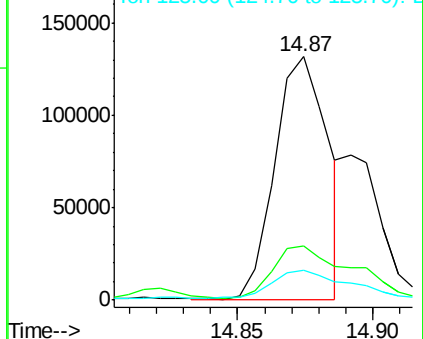
Delta R.T. -0.00 min

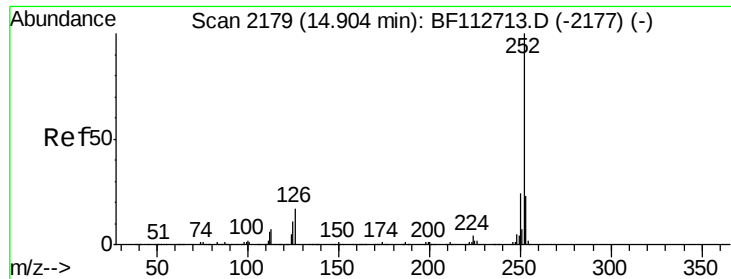
Lab File: BF113020.D

Acq: 12 Mar 2019 23:23

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 252  | Resp: | 181475 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 22.1 | 18.0  | 27.0   |
| 125       | 12.1 | 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





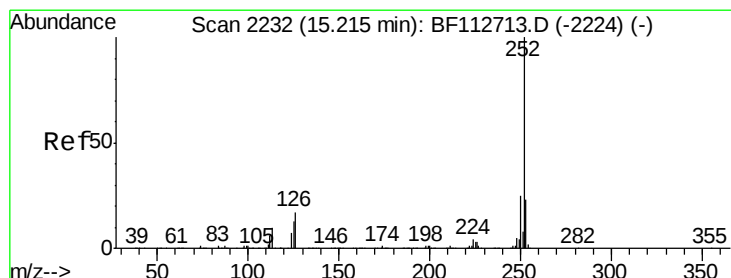
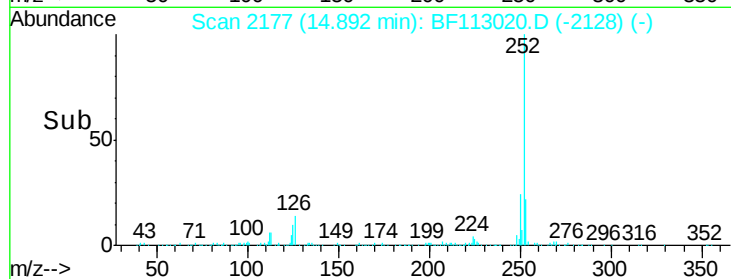
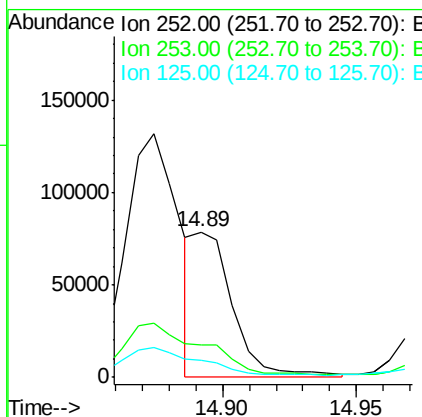
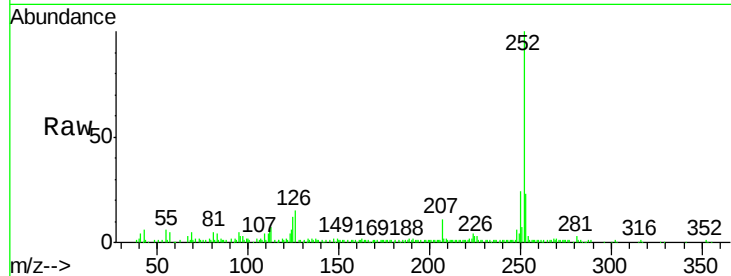
#89  
Benzo(k)fluoranthene  
Concen: 3.362 ng m  
RT: 14.89 min Scan# 2177  
Delta R.T. -0.01 min  
Lab File: BF113020.D  
Acq: 12 Mar 2019 23:23

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-7B-C-1-031119

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 18.2  | 27.2  |
| 125     | 12.0  | 9.8   | 14.6  |

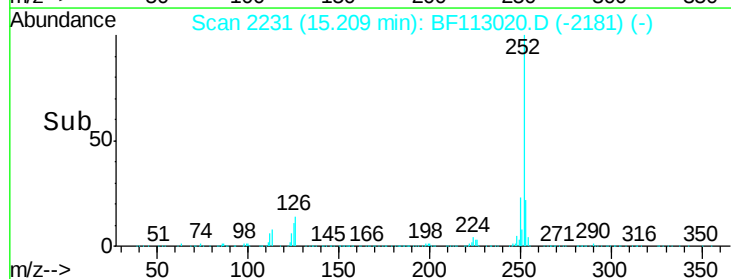
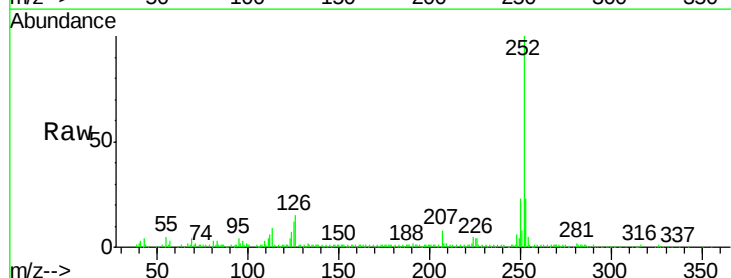
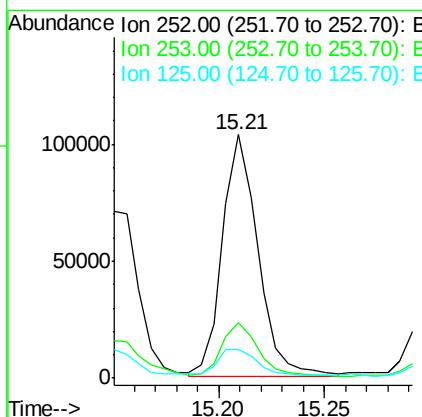
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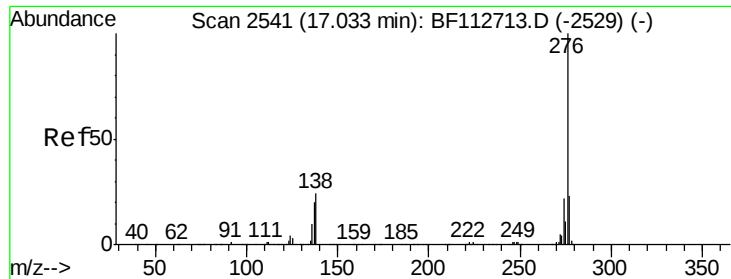
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#90  
Benzo(a)pyrene  
Concen: 5.205 ng  
RT: 15.21 min Scan# 2231  
Delta R.T. -0.01 min  
Lab File: BF113020.D  
Acq: 12 Mar 2019 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 18.0  | 27.0  |
| 125     | 12.0  | 10.7  | 16.1  |





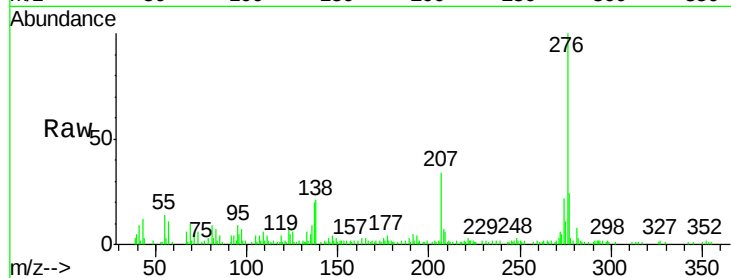
#92  
 Benzo(a,h,i)perylene  
 Concen: 3.050 ng  
 RT: 17.03 min Scan# 2541  
 Delta R.T. -0.01 min  
 Lab File: BF113020.D  
 Acq: 12 Mar 2019 23:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-7B-C-1-031119

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.6  | 18.6  | 27.8  |
| 138     | 21.5  | 19.4  | 29.0  |

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

