

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\  
 Data File : BF111440.D  
 Acq On : 15 Dec 2018 1:07  
 Operator : JU/SJ  
 Sample : J6374-03 2X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-02-029-B

Manual Integrations  
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 12/17/2018 2:37:11 PM

Quant Time: Dec 15 03:08:13 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 14 13:26:17 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.79  | 152  | 167787   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.07  | 136  | 641003   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.83  | 164  | 255973   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.32 | 188  | 391370   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.95 | 240  | 296970   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.40 | 264  | 204981   | 20.00 | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.42  | 112  | 492802   | 48.87 | ng    | 0.00     |
| 7) Phenol-d6                | 6.43  | 99   | 620904   | 46.29 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.35  | 82   | 353057   | 32.80 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.62 | 330  | 88995    | 38.81 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.15  | 172  | 623710   | 37.64 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.90 | 244  | 477434   | 37.75 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 10) Phenol                  | 6.45  | 94   | 40314    | 2.698 | ng    | 93       |
| 50) Dimethylphthalate       | 9.55  | 163  | 51481    | 2.793 | ng    | # 96     |
| 71) Phenanthrene            | 11.34 | 178  | 93746    | 4.649 | ng    | # 92     |
| 75) Fluoranthene            | 12.53 | 202  | 154017   | 7.807 | ng    | 95       |
| 78) Pyrene                  | 12.76 | 202  | 150910   | 7.208 | ng    | 93       |
| 81) Benzo(a)anthracene      | 13.94 | 228  | 65335    | 4.046 | ng    | 96       |
| 83) Chrysene                | 13.98 | 228  | 66188    | 3.891 | ng    | 94       |
| 88) Benzo(b)fluoranthene    | 14.98 | 252  | 62048m   | 5.192 | ng    |          |
| 90) Benzo(a)pyrene          | 15.33 | 252  | 39606    | 3.675 | ng    | # 76     |
| 92) Benzo(g,h,i)perylene    | 17.24 | 276  | 22356    | 2.679 | ng    | # 90     |

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

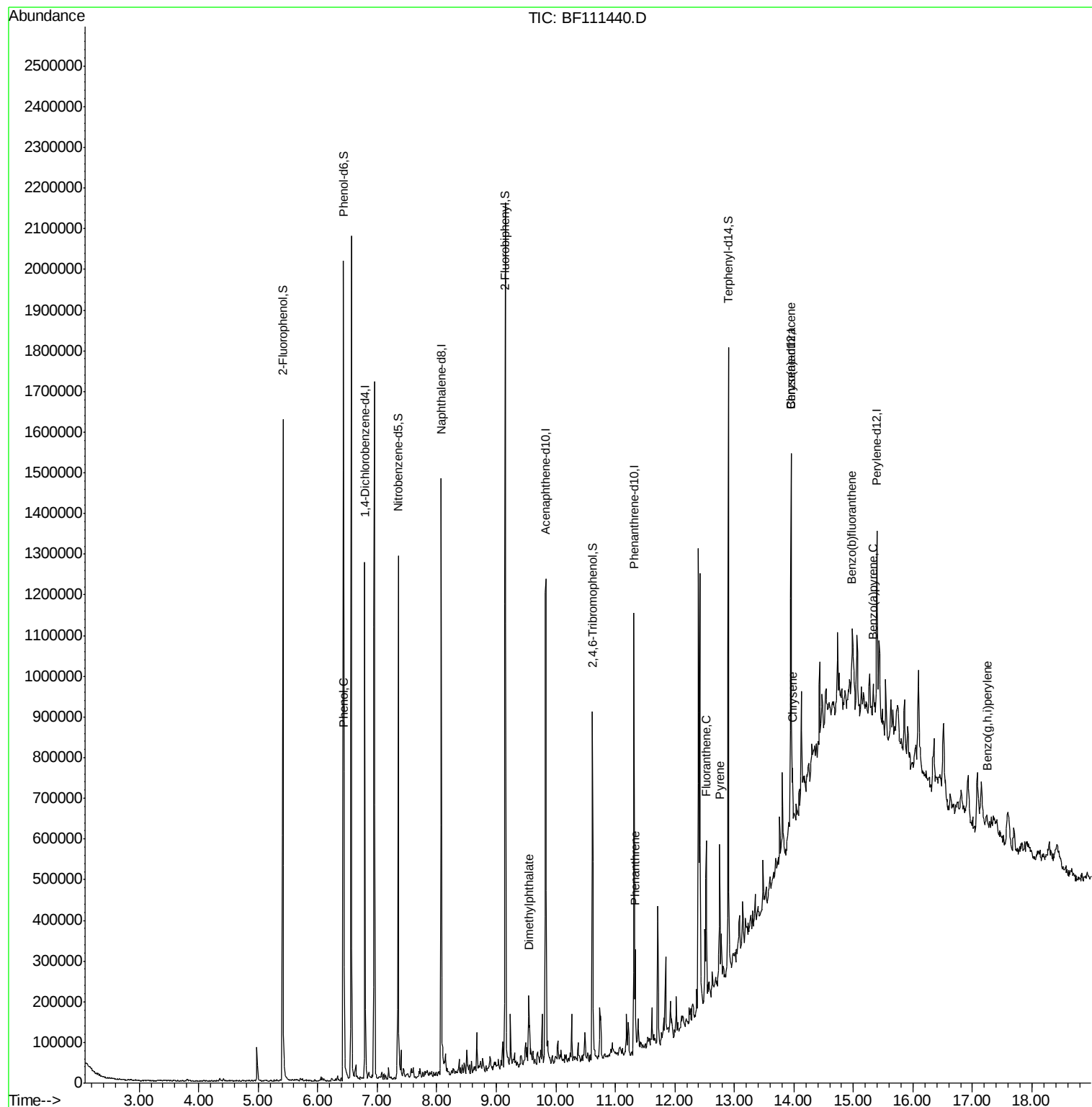
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121418\  
Data File : BF111440.D  
Acq On : 15 Dec 2018 1:07  
Operator : JU/SJ  
Sample : J6374-03 2X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

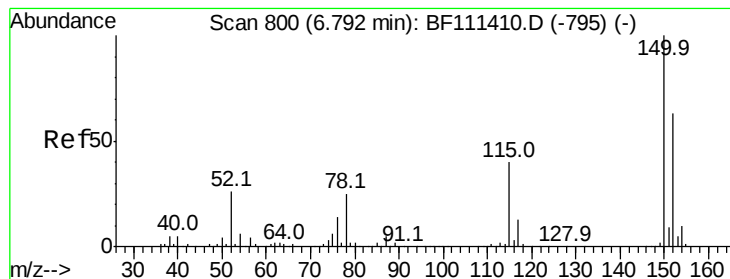
Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-029-B

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M  
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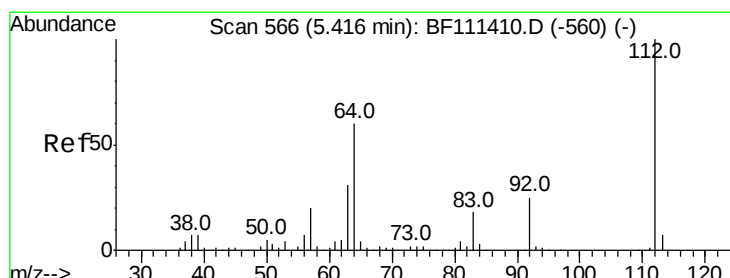
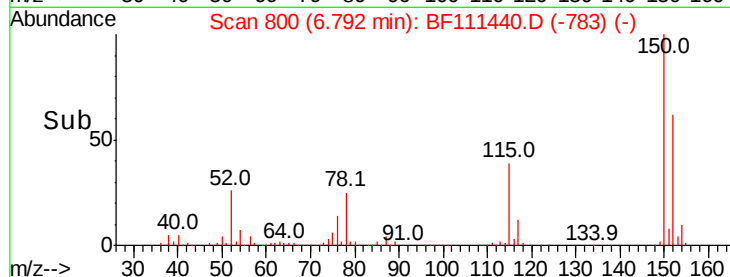
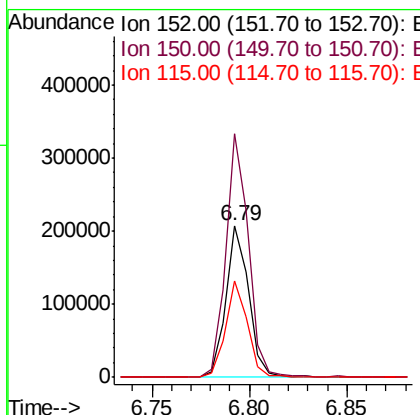
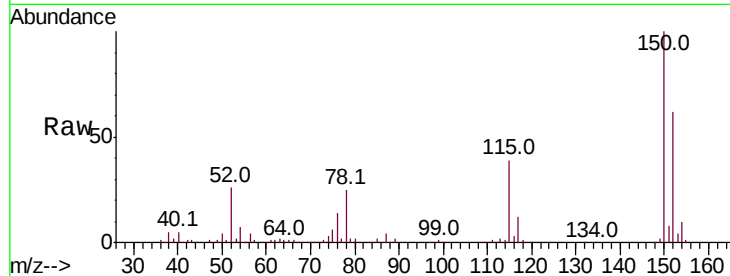
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.79 min Scan# 800  
 Delta R.T. 0.00 min  
 Lab File: BF111440.D  
 Acq: 15 Dec 2018 1:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-02-029-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.7 | 126.6 | 189.8 |
| 115     | 63.2  | 50.7  | 76.1  |

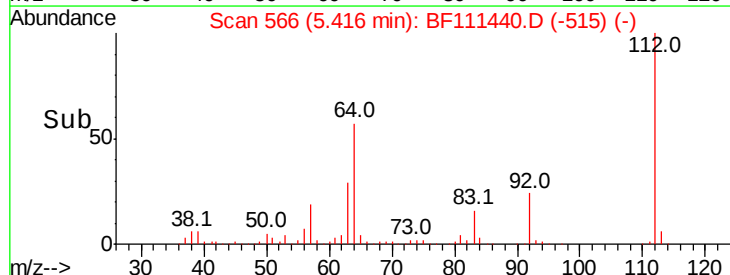
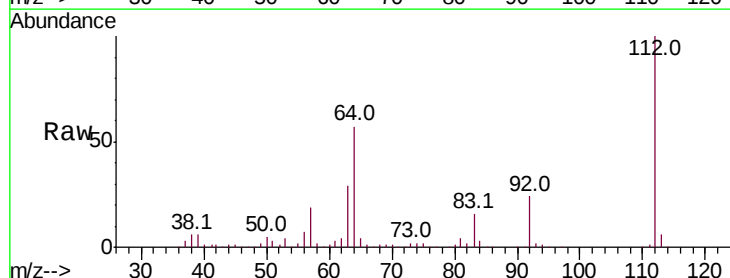
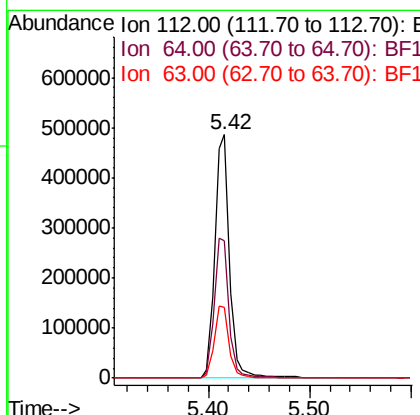
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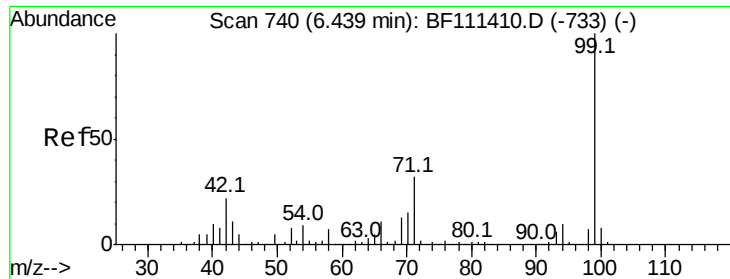
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#5  
 2-Fluorophenol  
 Concen: 48.875 ng  
 RT: 5.42 min Scan# 566  
 Delta R.T. 0.00 min  
 Lab File: BF111440.D  
 Acq: 15 Dec 2018 1:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.6  | 51.8  | 77.6  |
| 63      | 29.3  | 26.8  | 40.2  |





#7

Phenol-d6

Concen: 46.294 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF111440.D

Acq: 15 Dec 2018 1:07

Instrument :

BNA\_F

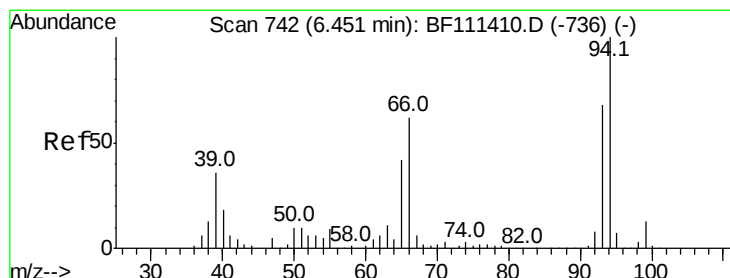
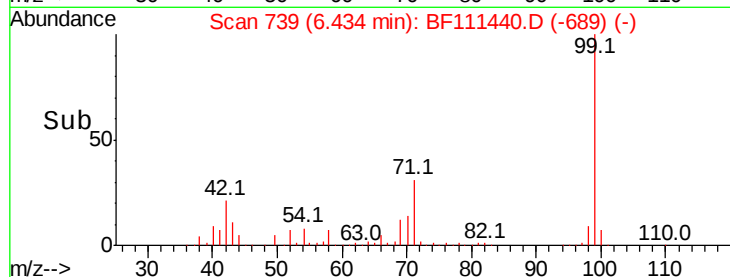
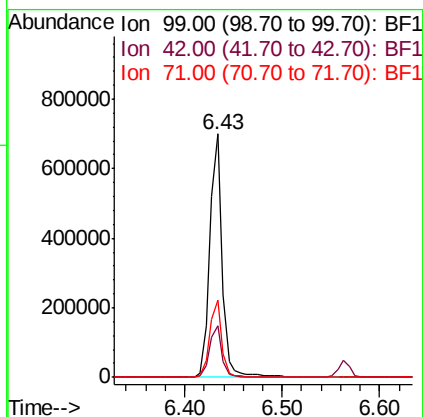
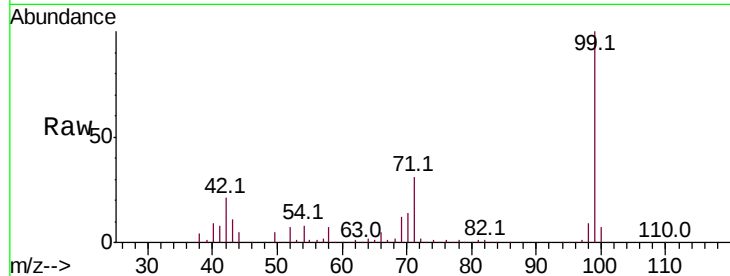
ClientSampleId :

FK-GF-02-029-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 620904 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 21.4  | 17.4  | 26.0   |
| 71        | 31.5  | 26.1  | 39.1   |

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#10

Phenol

Concen: 2.698 ng

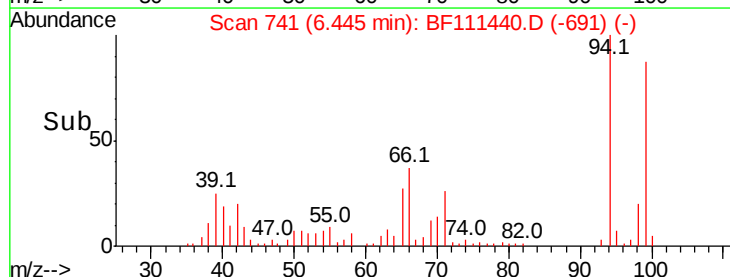
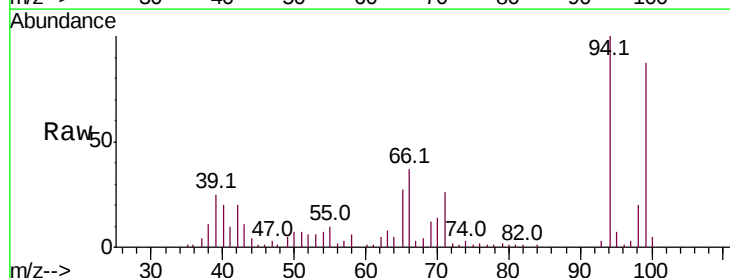
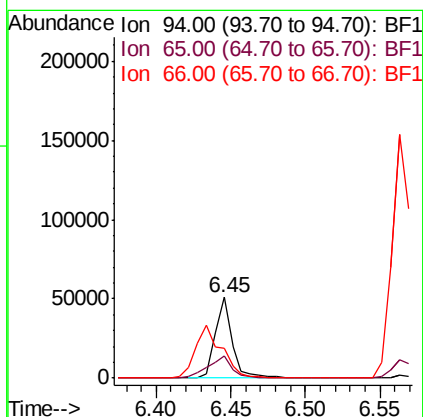
RT: 6.45 min Scan# 741

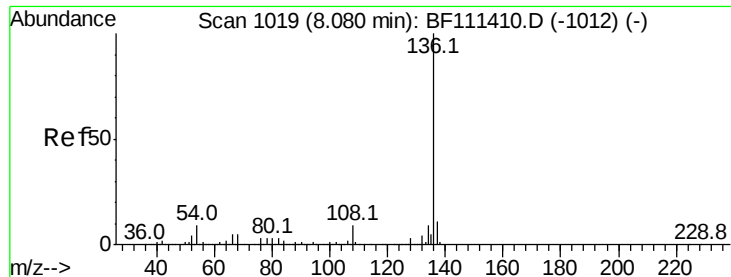
Delta R.T. -0.01 min

Lab File: BF111440.D

Acq: 15 Dec 2018 1:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 40314 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 26.7  | 11.7  | 51.7  |
| 66        | 37.1  | 21.0  | 61.0  |





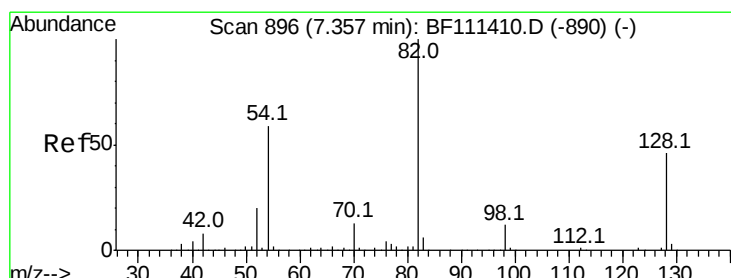
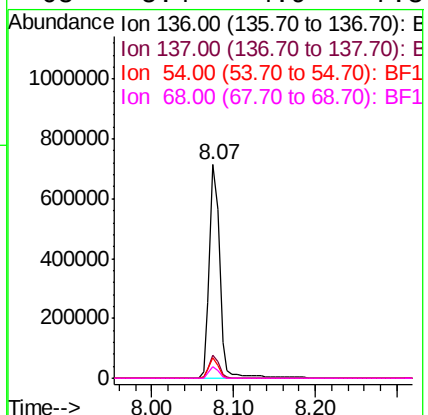
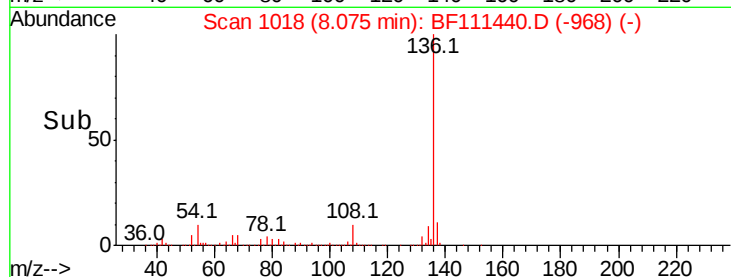
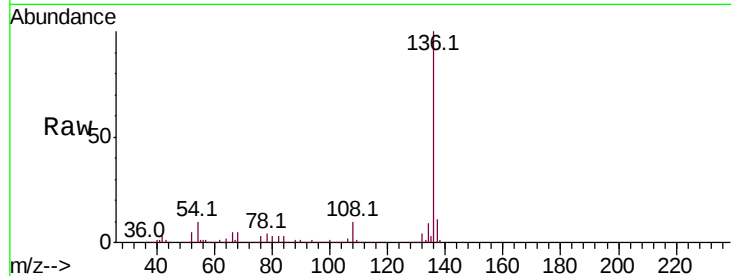
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1018  
Delta R.T. -0.01 min  
Lab File: BF111440.D  
Acq: 15 Dec 2018 1:07

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-029-B

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 136     | 100  |       |      |       |       |
| 137     | 10.9 | 9.1   | 13.7 |       |       |
| 54      | 9.6  | 7.7   | 11.5 |       |       |
| 68      | 5.4  | 4.9   | 7.3  |       |       |

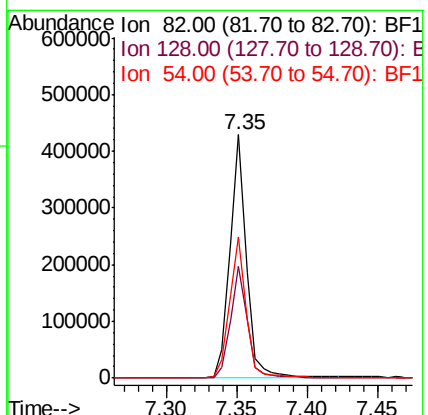
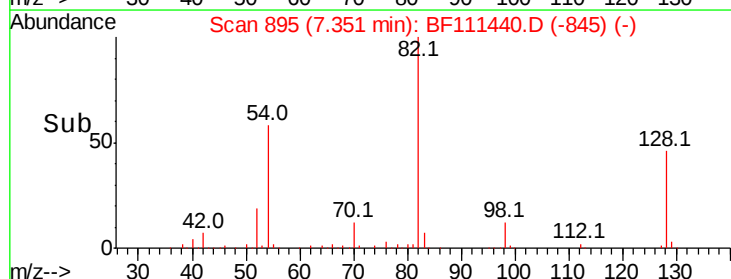
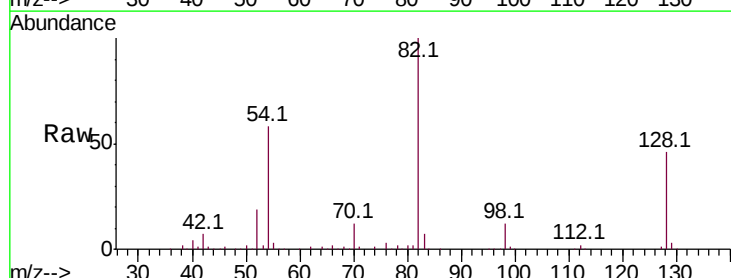
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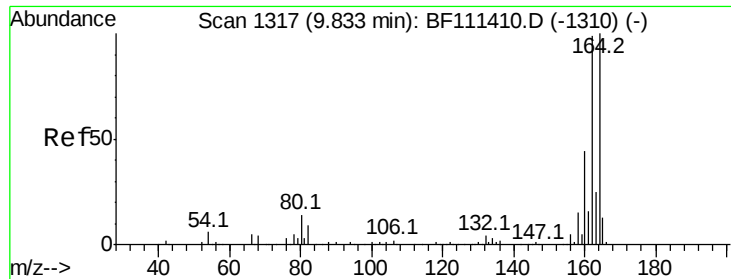
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#23  
Nitrobenzene-d5  
Concen: 32.799 ng  
RT: 7.35 min Scan# 895  
Delta R.T. -0.01 min  
Lab File: BF111440.D  
Acq: 15 Dec 2018 1:07

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 82      | 100  |       |      |       |       |
| 128     | 45.9 | 37.4  | 56.2 |       |       |
| 54      | 57.8 | 47.6  | 71.4 |       |       |





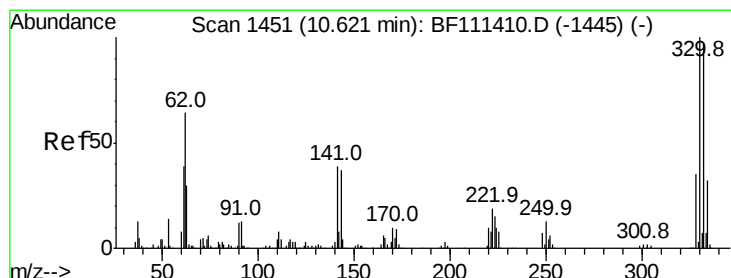
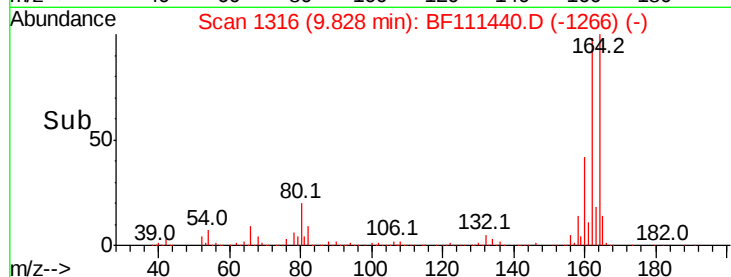
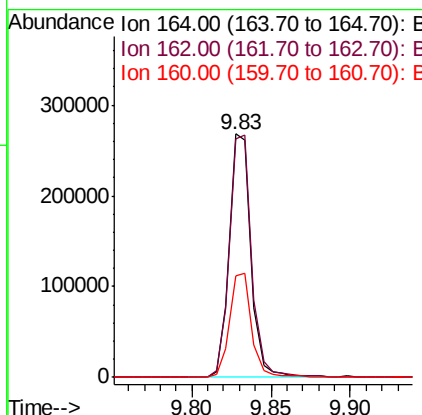
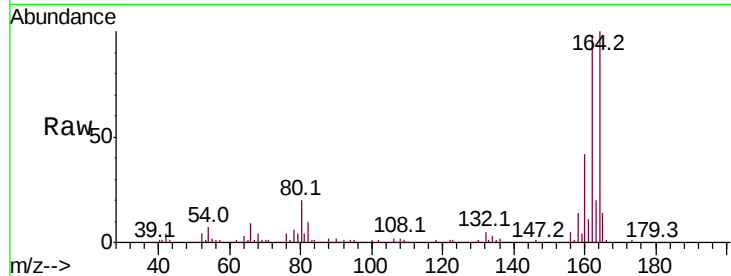
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.83 min Scan# 1316  
 Delta R.T. -0.01 min  
 Lab File: BF111440.D  
 Acq: 15 Dec 2018 1:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-02-029-B

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 255973 |       |       |
| 162     | 97.8  |        | 81.4  | 122.0 |
| 160     | 41.7  |        | 35.7  | 53.5  |

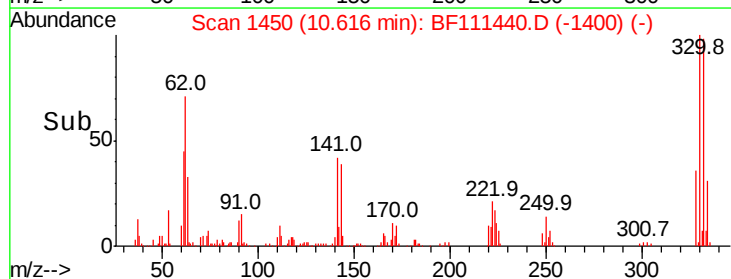
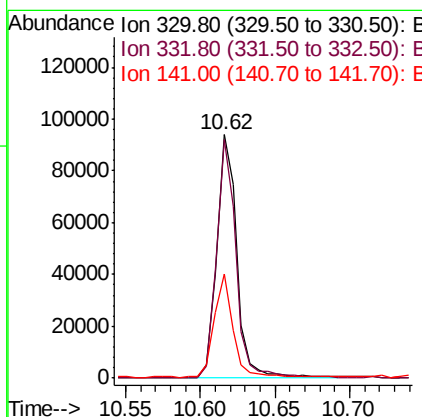
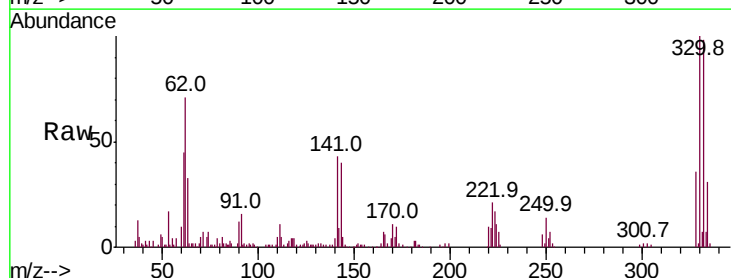
Manual Integrations  
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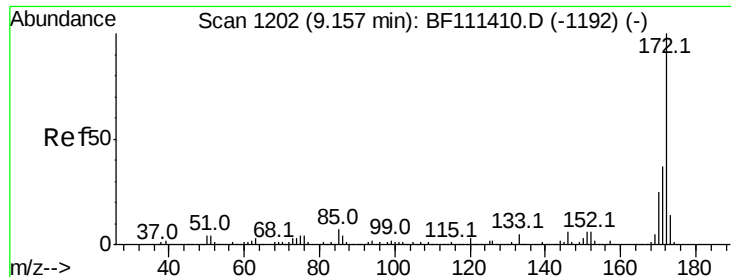
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#42  
 2,4,6-Tribromophenol  
 Concen: 38.812 ng  
 RT: 10.62 min Scan# 1450  
 Delta R.T. -0.01 min  
 Lab File: BF111440.D  
 Acq: 15 Dec 2018 1:07

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 88995 |       |       |
| 332     | 95.1  |       | 76.0  | 114.0 |
| 141     | 39.6  |       | 31.0  | 46.6  |





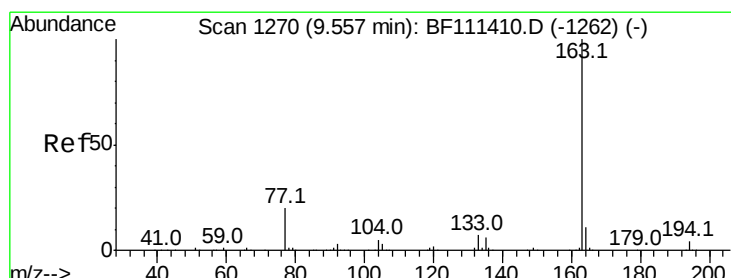
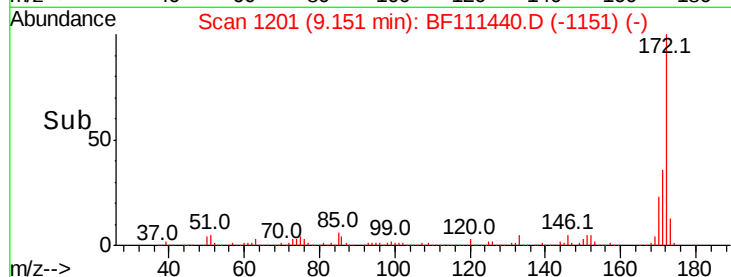
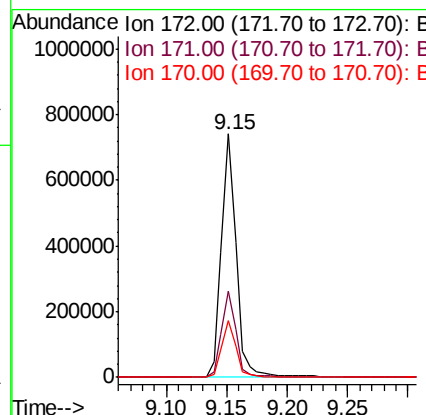
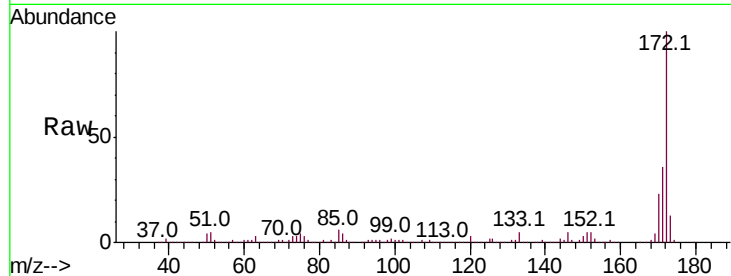
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2-Fluorobiphenyl  
Concen: 37.637 ng  
RT: 9.15 min Scan# 1201  
Delta R.T. -0.01 min  
Lab File: BF111440.D  
Acq: 15 Dec 2018 1:07

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-029-B

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 172     | 100   |            |       |
| 171     | 35.5  | 33.0       | 49.4  |
| 170     | 23.3  | 22.3       | 33.5  |

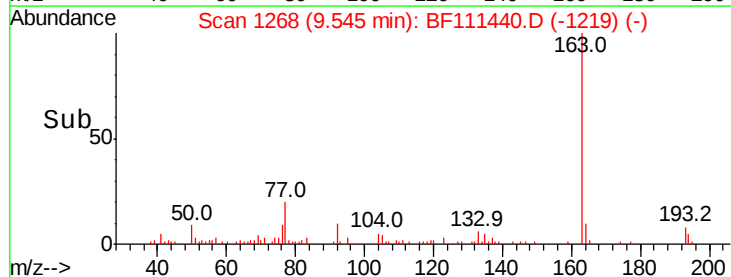
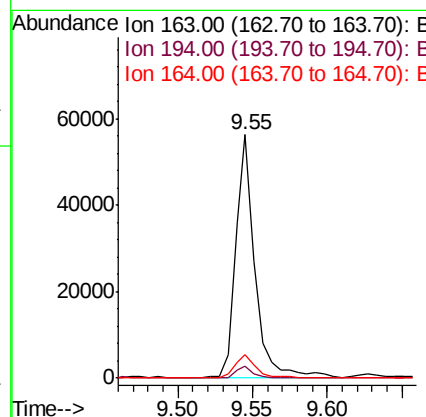
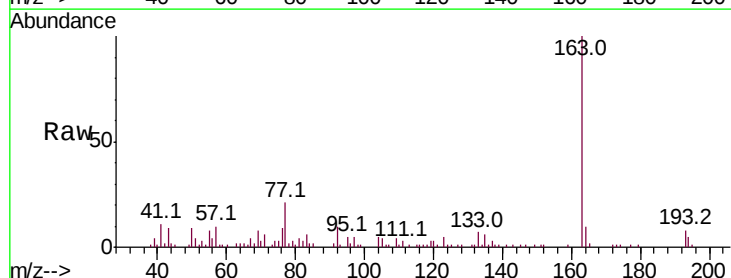
Manual Integrations  
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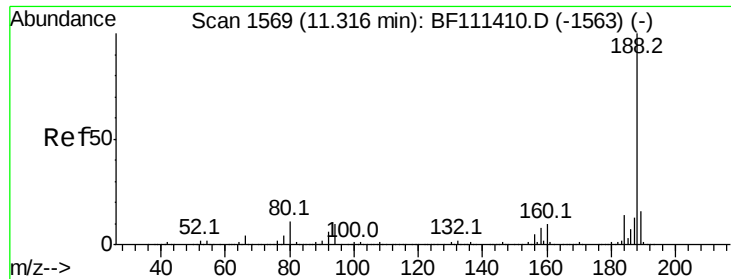
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#50  
Dimethylphthalate  
Concen: 2.793 ng  
RT: 9.55 min Scan# 1268  
Delta R.T. -0.01 min  
Lab File: BF111440.D  
Acq: 15 Dec 2018 1:07

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 163     | 100   |            |       |
| 194     | 4.8   | 3.0        | 4.6#  |
| 164     | 9.5   | 8.9        | 13.3  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.32 min Scan# 1569

Delta R.T. 0.00 min

Lab File: BF111440.D

Acq: 15 Dec 2018 1:07

Instrument :

BNA\_F

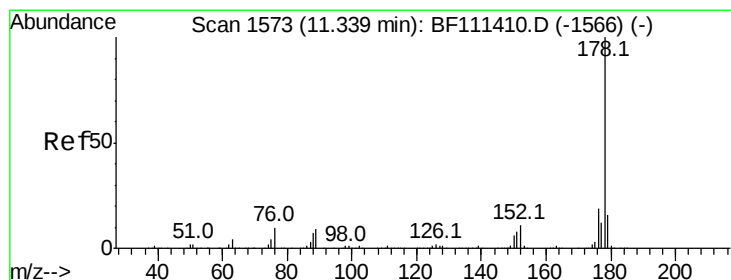
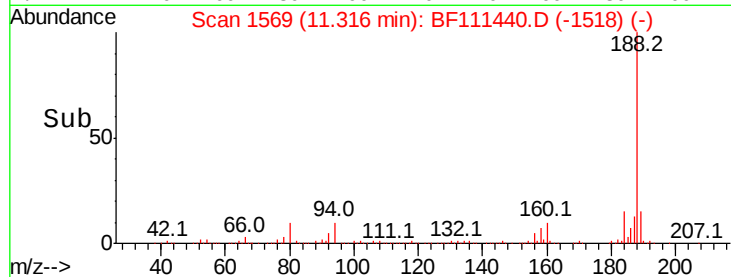
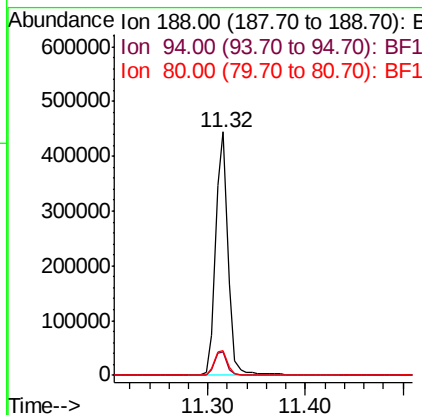
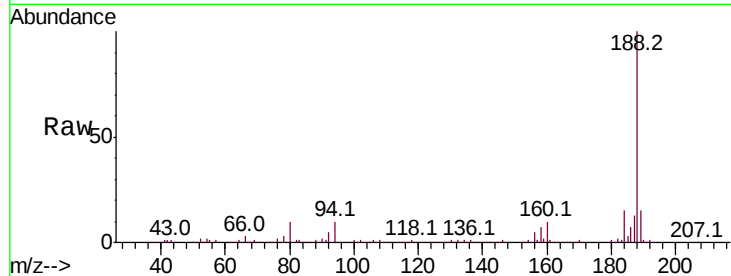
ClientSampleId :

FK-GF-02-029-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 391370 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.6   | 9.6   | 14.4   |
| 80        | 10.0  | 9.8   | 14.6   |

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#71

Phenanthrene

Concen: 4.649 ng

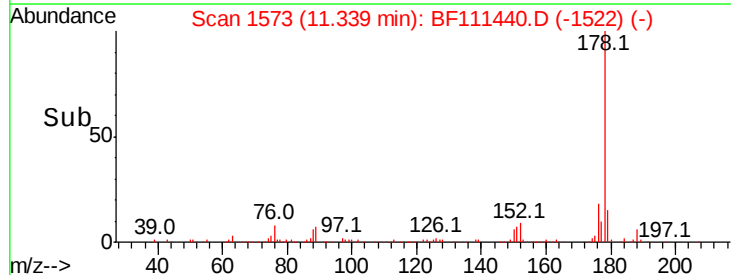
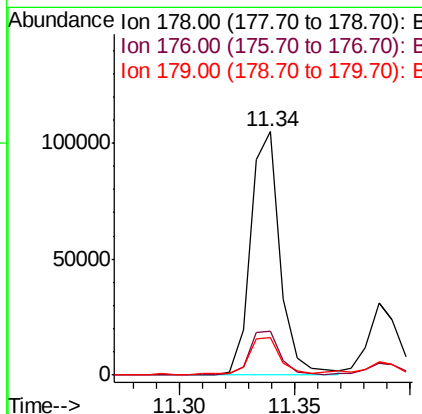
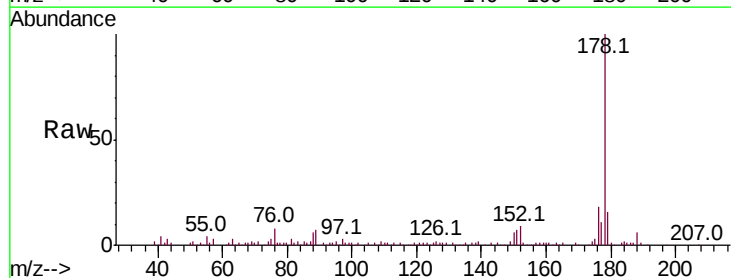
RT: 11.34 min Scan# 1573

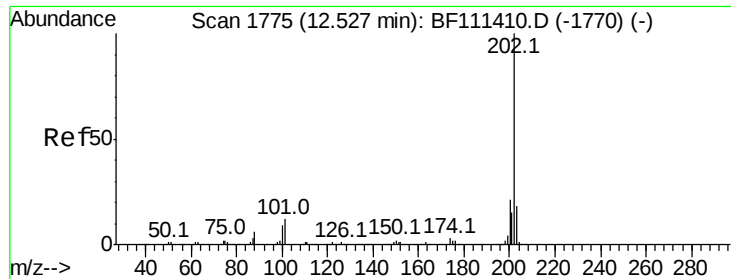
Delta R.T. 0.00 min

Lab File: BF111440.D

Acq: 15 Dec 2018 1:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 93746 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 17.8  | 18.1  | 27.1# |
| 179       | 15.6  | 14.0  | 21.0  |





#75

Fluoranthene

Concen: 7.807 ng

RT: 12.53 min Scan# 1775

Delta R.T. 0.00 min

Lab File: BF111440.D

Acq: 15 Dec 2018 1:07

Instrument :

BNA\_F

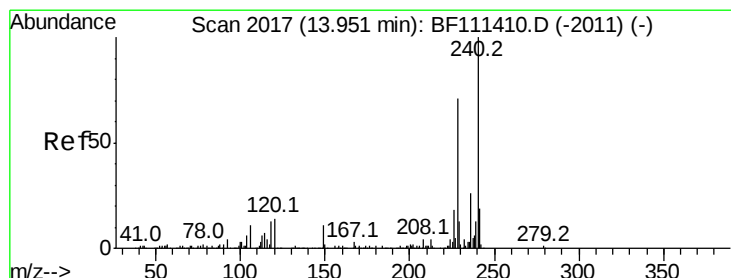
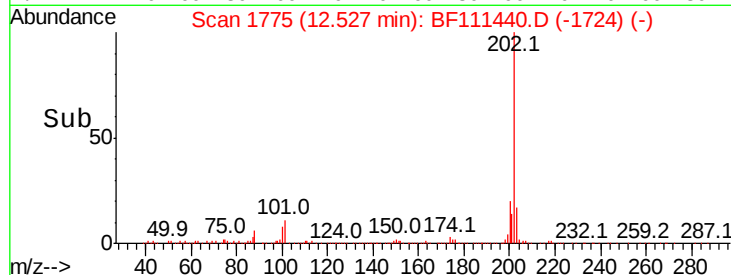
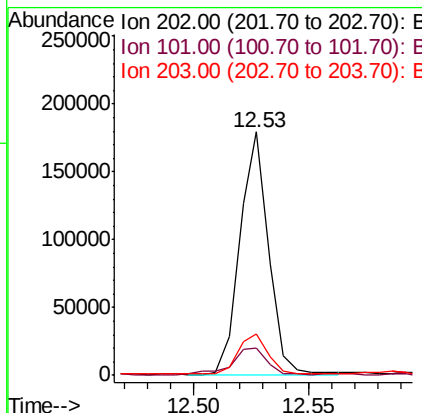
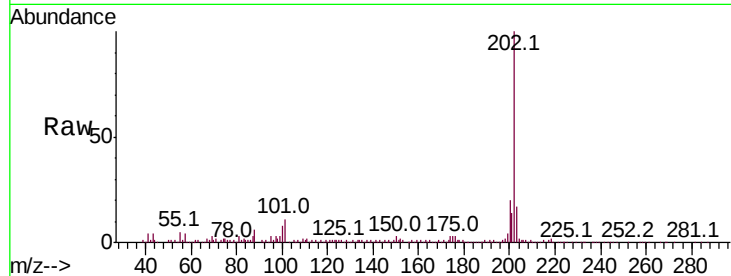
ClientSampleId :

FK-GF-02-029-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 154017 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.3  | 0.0   | 33.8   |
| 203       | 17.1  | 0.0   | 38.6   |

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#76

Chrysene-d12

Concen: 20.000 ng

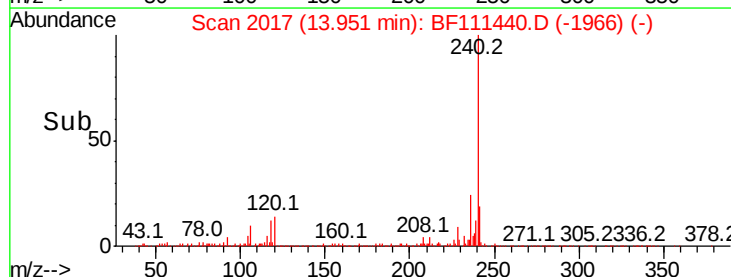
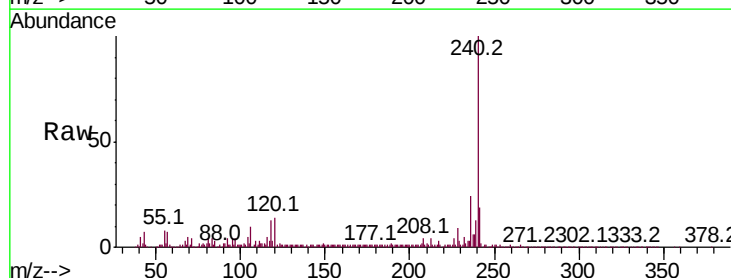
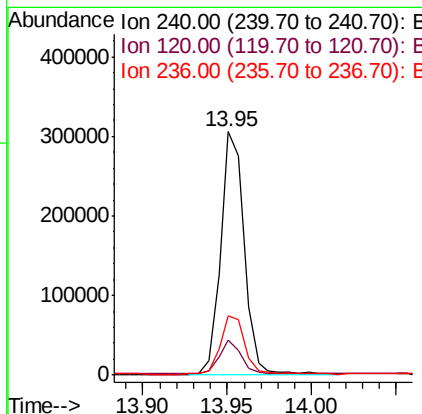
RT: 13.95 min Scan# 1717

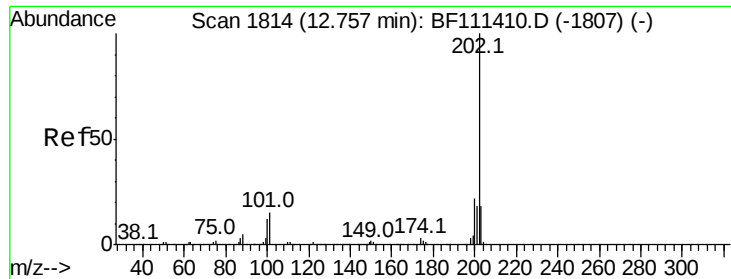
Delta R.T. 0.00 min

Lab File: BF111440.D

Acq: 15 Dec 2018 1:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 296970 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 14.5  | 12.2  | 18.2   |
| 236       | 24.5  | 20.2  | 30.2   |





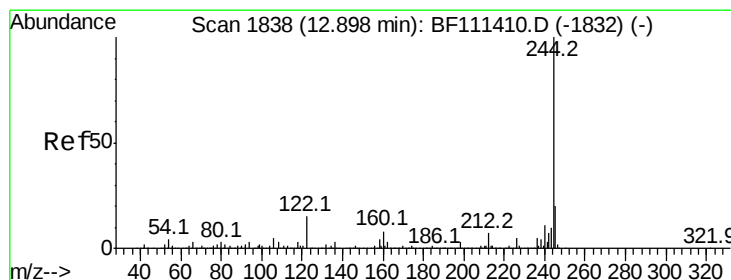
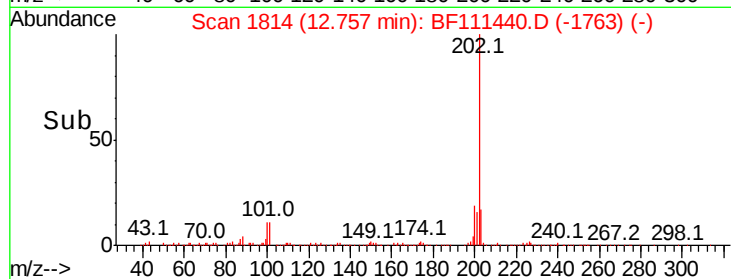
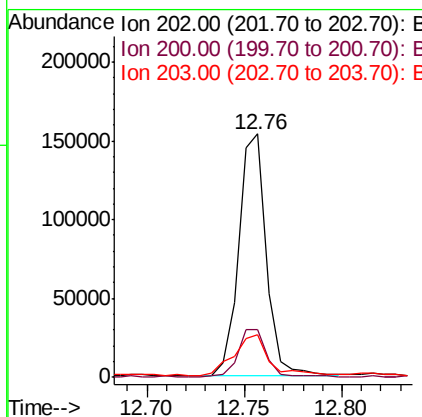
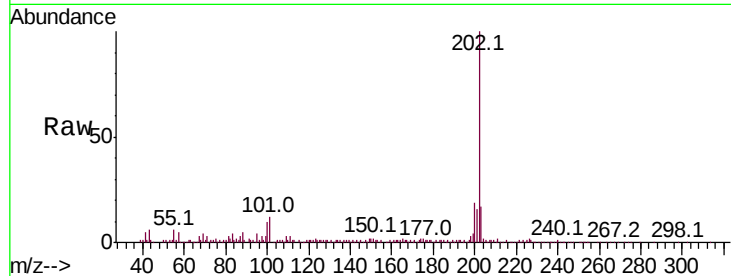
#78  
Pvrene  
Concen: 7.208 ng  
RT: 12.76 min Scan# 1814  
Delta R.T. 0.00 min  
Lab File: BF111440.D  
Acq: 15 Dec 2018 1:07

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-029-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.4  | 19.0  | 28.4  |
| 203     | 17.3  | 15.2  | 22.8  |

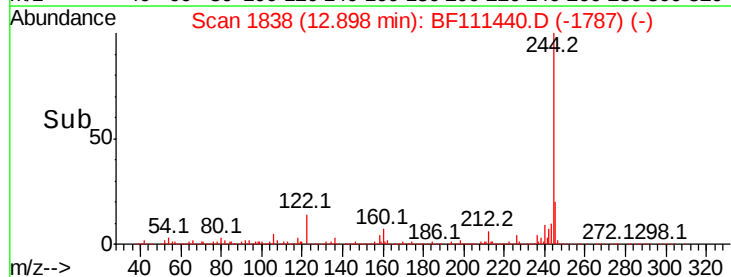
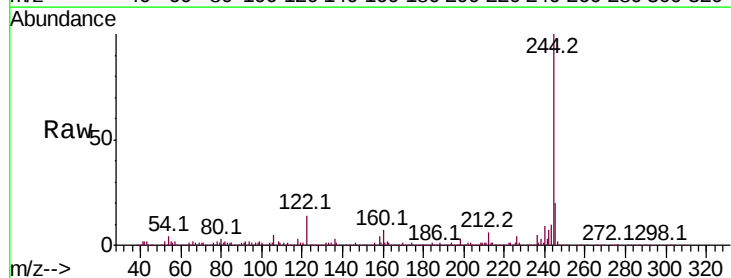
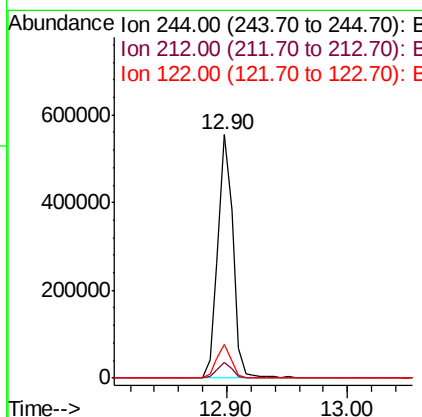
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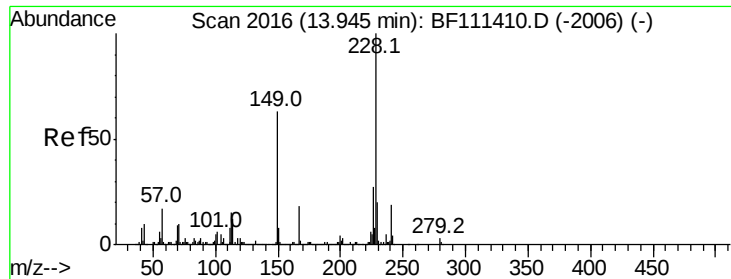
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12/17/2018 2:37:11 PM



#79  
Terphenyl-d14  
Concen: 37.752 ng  
RT: 12.90 min Scan# 1838  
Delta R.T. 0.00 min  
Lab File: BF111440.D  
Acq: 15 Dec 2018 1:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.3   | 5.7   | 8.5   |
| 122     | 13.9  | 13.1  | 19.7  |





#81

Benzo(a)anthracene

Concen: 4.046 ng

RT: 13.94 min Scan# 2016

Delta R.T. 0.00 min

Lab File: BF111440.D

Acq: 15 Dec 2018 1:07

Instrument :

BNA\_F

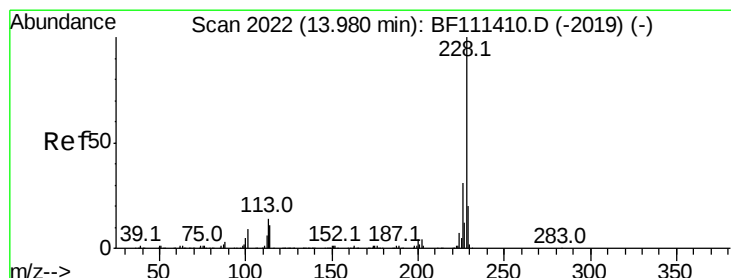
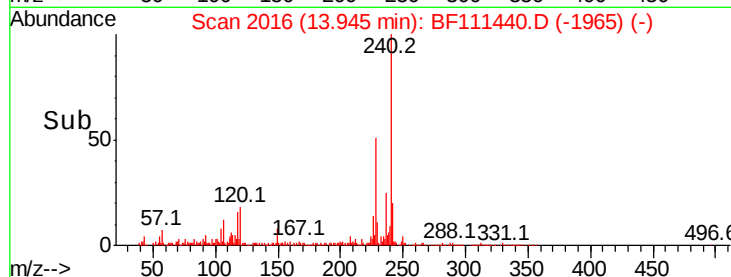
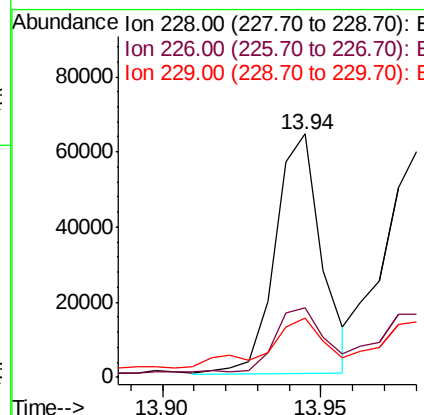
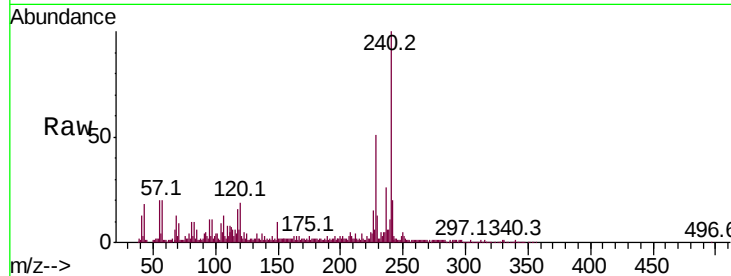
ClientSampleId :

FK-GF-02-029-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 65335 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 28.8  | 22.6  | 34.0  |
| 229       | 24.4  | 16.3  | 24.5  |

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#83

Chrysene

Concen: 3.891 ng

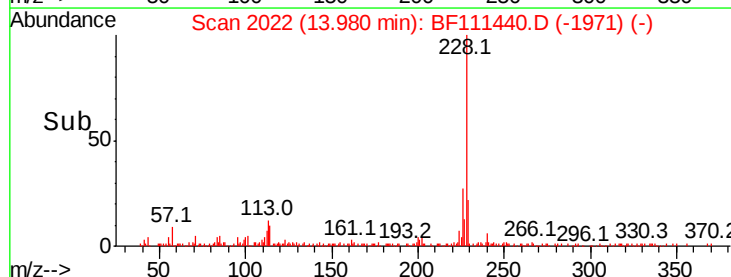
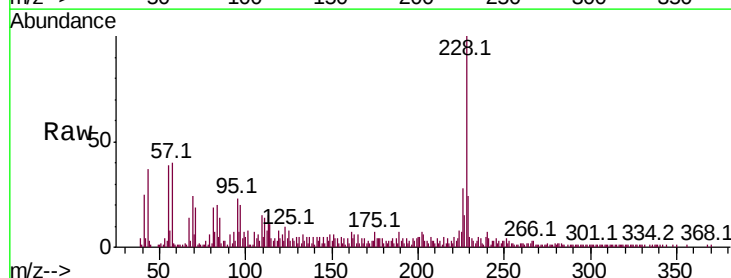
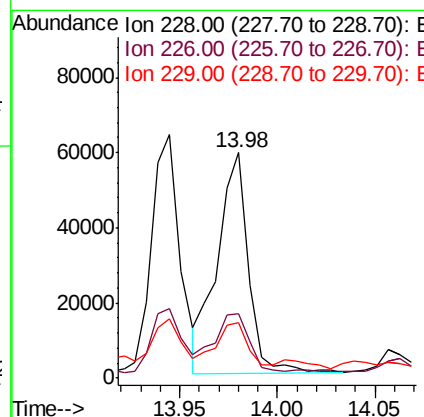
RT: 13.98 min Scan# 2022

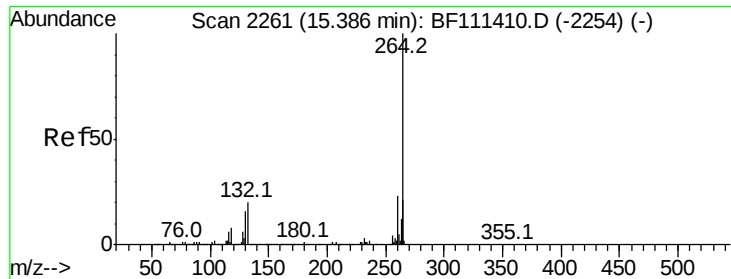
Delta R.T. 0.00 min

Lab File: BF111440.D

Acq: 15 Dec 2018 1:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 66188 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 28.3  | 25.3  | 37.9  |
| 229       | 24.4  | 17.2  | 25.8  |





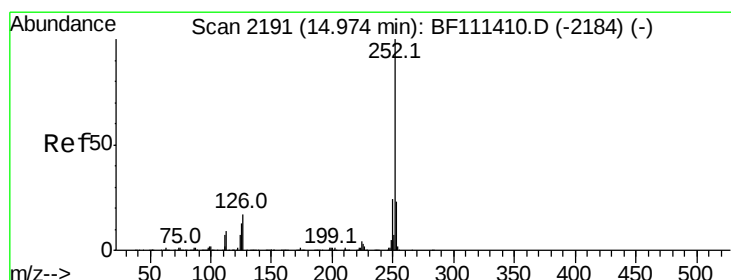
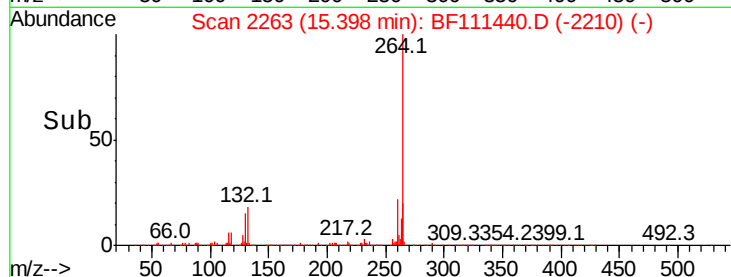
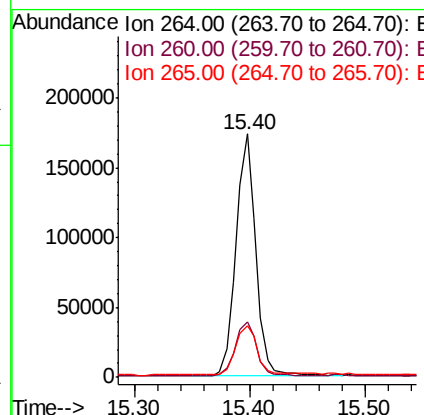
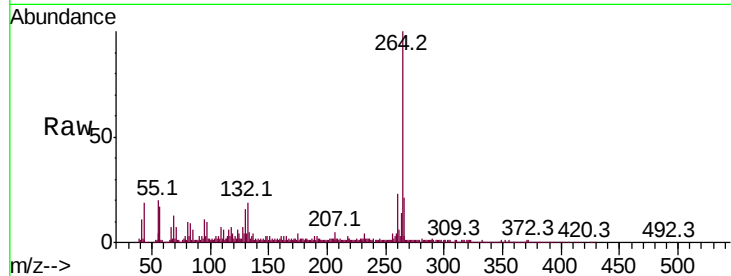
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.40 min Scan# 2263  
Delta R.T. 0.01 min  
Lab File: BF111440.D  
Acq: 15 Dec 2018 1:07

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-029-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.8  | 18.3  | 27.5  |
| 265     | 21.3  | 17.7  | 26.5  |

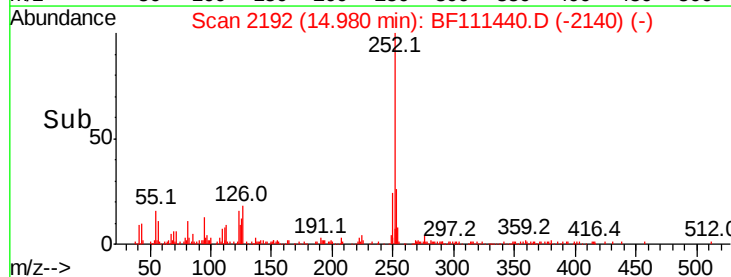
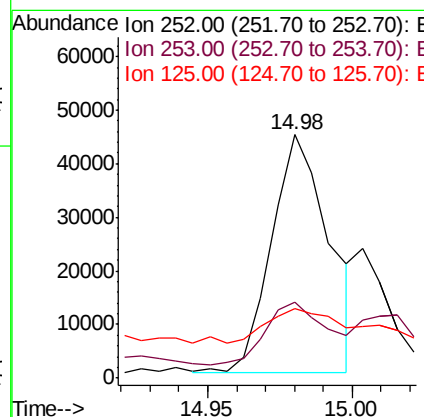
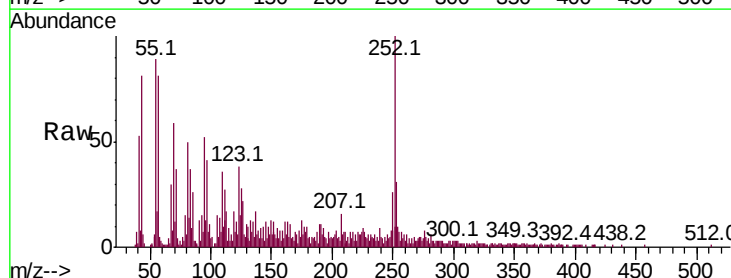
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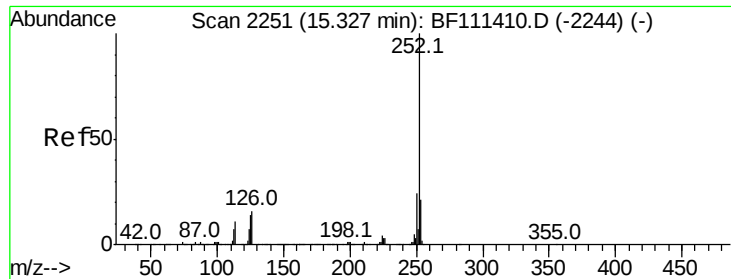
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#88  
Benzo(b)fluoranthene  
Concen: 5.192 ng m  
RT: 14.98 min Scan# 2192  
Delta R.T. 0.01 min  
Lab File: BF111440.D  
Acq: 15 Dec 2018 1:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 31.3  | 18.2  | 27.2# |
| 125     | 28.5  | 10.4  | 15.6# |





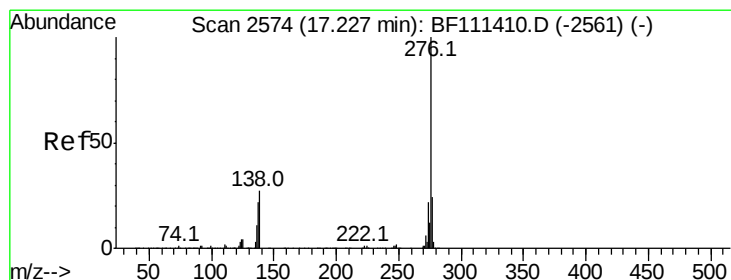
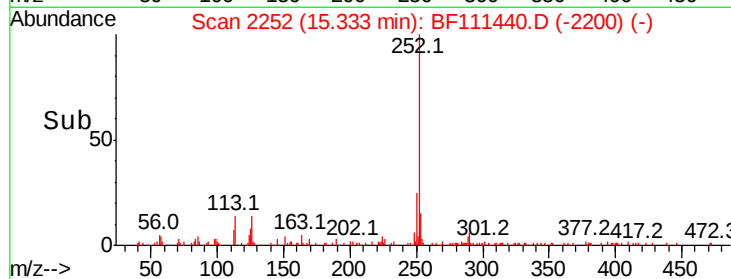
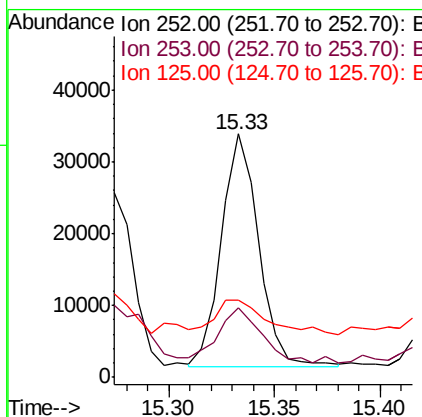
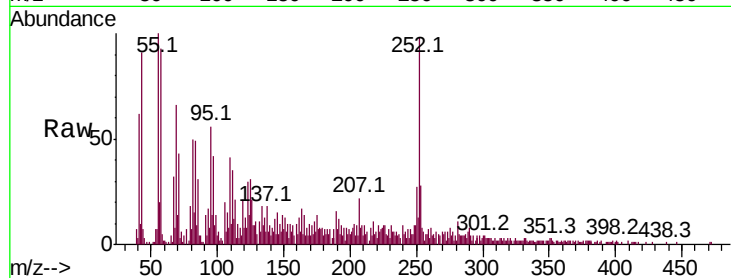
#90  
Benzo(a)pyrene  
Concen: 3.675 ng  
RT: 15.33 min Scan# 2252  
Delta R.T. 0.01 min  
Lab File: BF111440.D  
Acq: 15 Dec 2018 1:07

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-029-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.7  | 17.8  | 26.8# |
| 125     | 31.6  | 12.3  | 18.5# |

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#92  
Benzo(g,h,i)perylene  
Concen: 2.679 ng  
RT: 17.24 min Scan# 2577  
Delta R.T. 0.02 min  
Lab File: BF111440.D  
Acq: 15 Dec 2018 1:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 35.0  | 19.2  | 28.8# |
| 138     | 31.5  | 24.9  | 37.3  |

