

Data Path : Z:\HPCHEM1\BNA F\DATA\BF010418\  
 Data File : BF101889.D  
 Acq On : 4 Jan 2018 14:32  
 Operator : SJ/JU  
 Sample : J1012-01 5X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-03-010318-A

Manual Integrations  
 APPROVED

Sohil  
 1/5/2018 10:29:21 AM

Quant Time: Jan 04 16:11:57 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 04 14:22:17 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.77  | 152  | 127495   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.05  | 136  | 470934   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.80  | 164  | 181774   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.30 | 188  | 263023   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 13.96 | 240  | 233416   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.42 | 264  | 281220   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.42  | 112  | 209236   | 24.45 | ng    | 0.02     |
| 7) Phenol-d6                | 6.44  | 99   | 254517   | 23.89 | ng    | 0.02     |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 134655   | 15.92 | ng    | 0.01     |
| 41) 2,4,6-Tribromophenol    | 10.62 | 330  | 27435    | 15.66 | ng    | 0.01     |
| 44) 2-Fluorobiphenyl        | 9.12  | 172  | 224157   | 19.13 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.87 | 244  | 132114   | 13.65 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 70) Phenanthrene            | 11.33 | 178  | 36720    | 2.510 | ng    | 98       |
| 74) Fluoranthene            | 12.53 | 202  | 49451    | 3.221 | ng    | 100      |
| 77) Pyrene                  | 12.76 | 202  | 46609    | 2.661 | ng    | 98       |

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

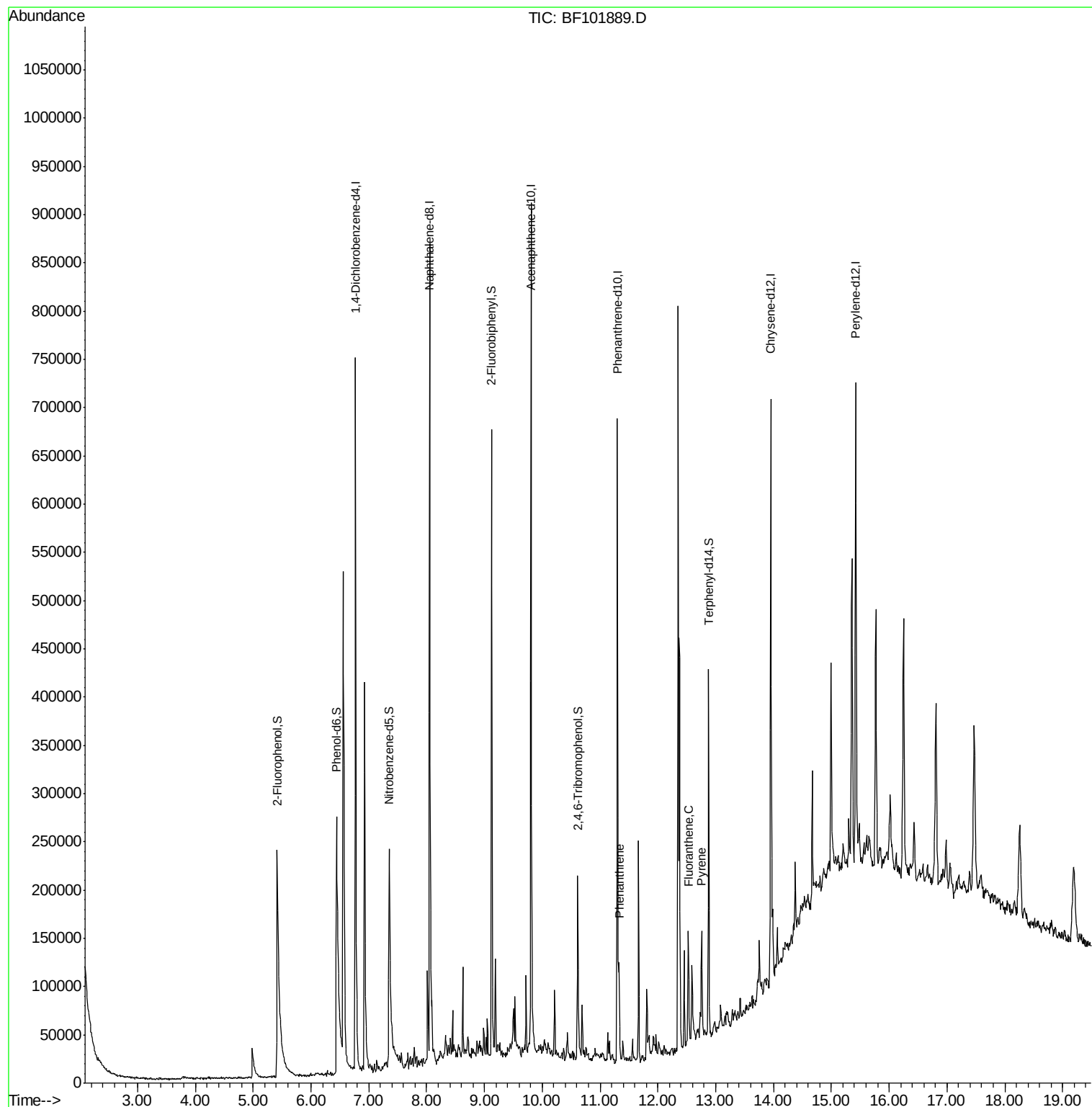
Data Path : Z:\HPCHEM1\BNA F\DATA\BF010418\  
Data File : BF101889.D  
Acq On : 4 Jan 2018 14:32  
Operator : SJ/JU  
Sample : J1012-01 5X  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

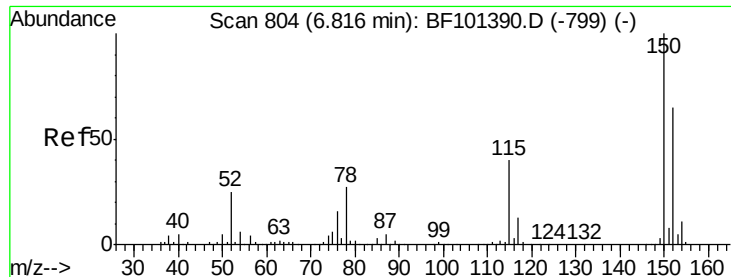
Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-010318-A

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1/5/2018 10:29:21 AM

Quant Time: Jan 04 16:11:57 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jan 04 14:22:17 2018  
Response via : Initial Calibration





#1

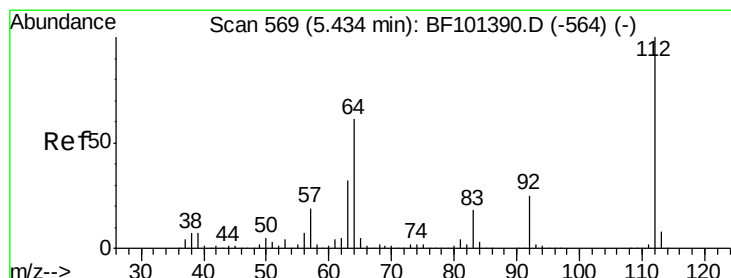
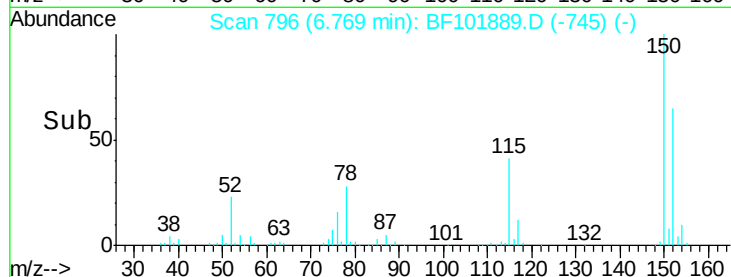
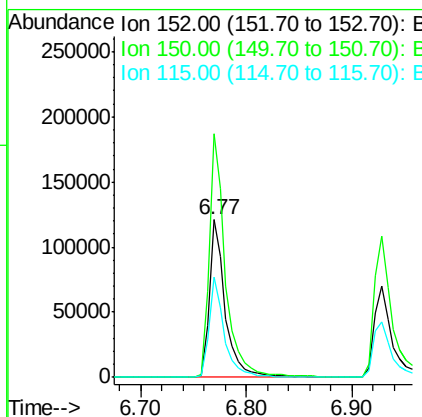
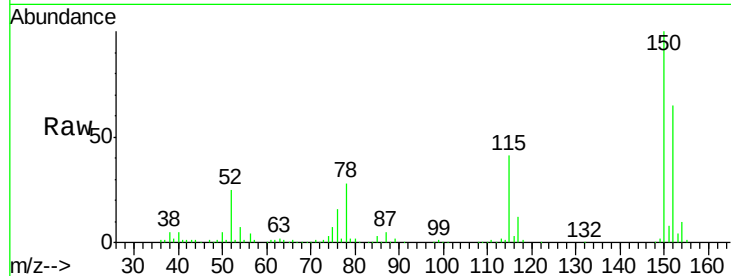
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.77 min Scan# 796  
Delta R.T. 0.00 min  
Lab File: BF101889.D  
Acq: 4 Jan 2018 14:32

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-010318-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.8 | 124.6 | 186.8 |
| 115     | 63.8  | 50.1  | 75.1  |

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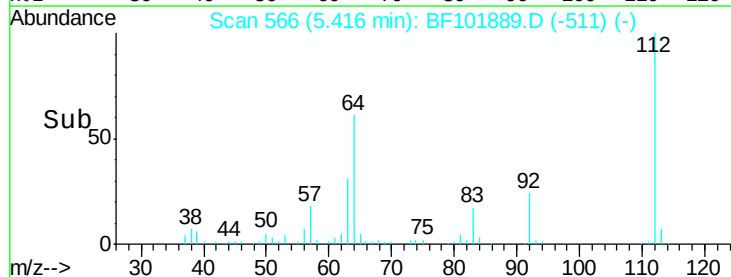
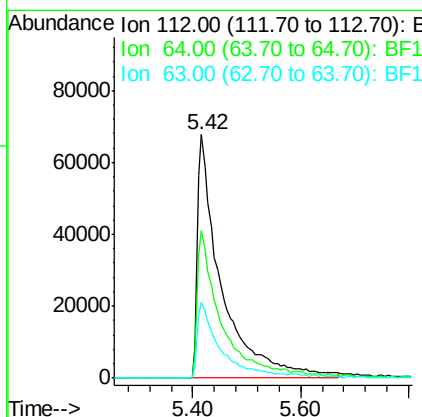
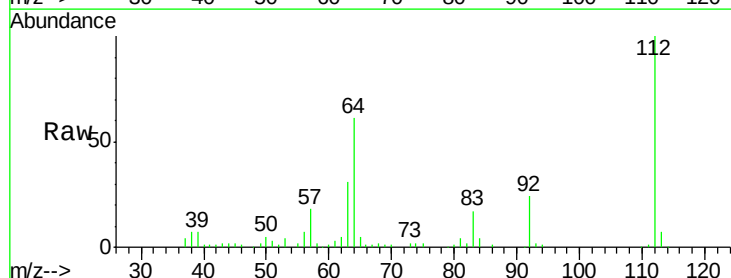
Sohil  
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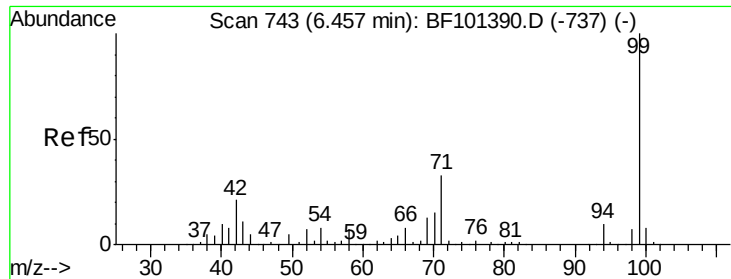


#5

2-Fluorophenol  
Concen: 24.446 ng  
RT: 5.42 min Scan# 566  
Delta R.T. 0.02 min  
Lab File: BF101889.D  
Acq: 4 Jan 2018 14:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.7  | 47.9  | 71.9  |
| 63      | 31.1  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 23.893 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.02 min

Lab File: BF101889.D

Acq: 4 Jan 2018 14:32

Instrument :

BNA\_F

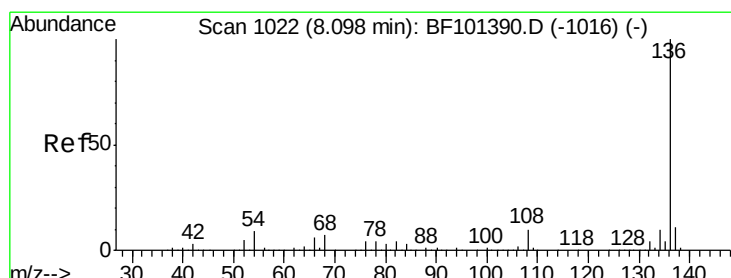
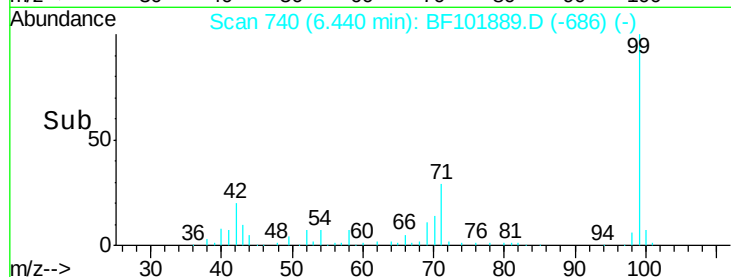
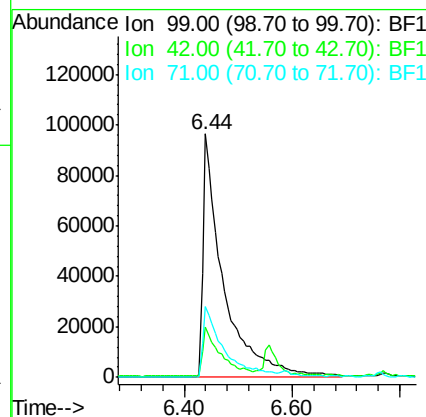
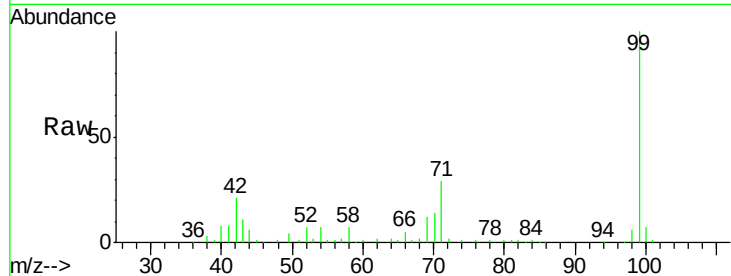
ClientSampleId :

JC-03-010318-A

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 254517 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 20.5  | 14.5  | 21.7   |
| 71        | 29.2  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

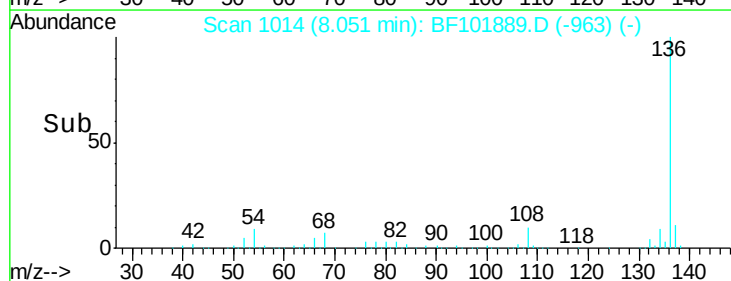
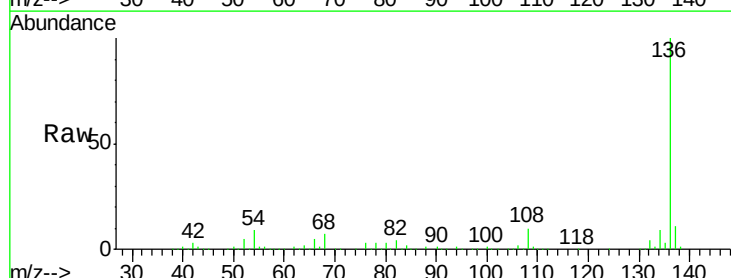
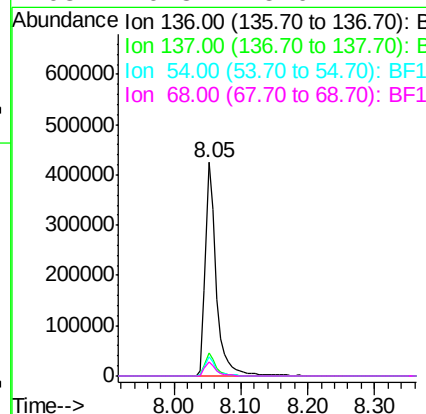
RT: 8.05 min Scan# 1014

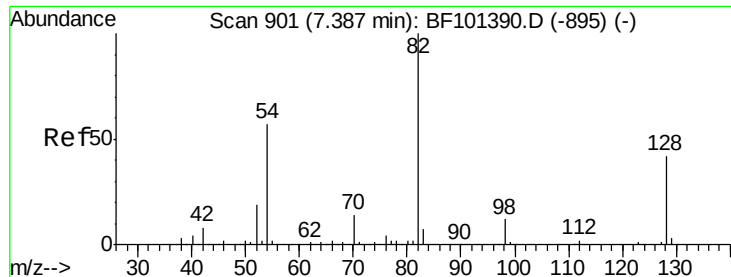
Delta R.T. 0.00 min

Lab File: BF101889.D

Acq: 4 Jan 2018 14:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 470934 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.8  | 8.9   | 13.3   |
| 54        | 9.1   | 6.6   | 9.8    |
| 68        | 6.8   | 5.0   | 7.4    |





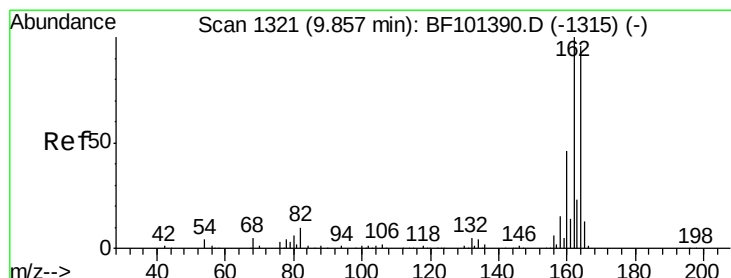
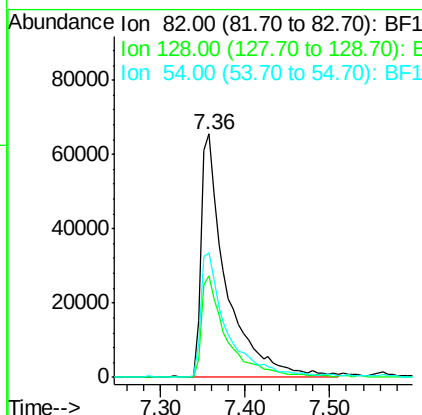
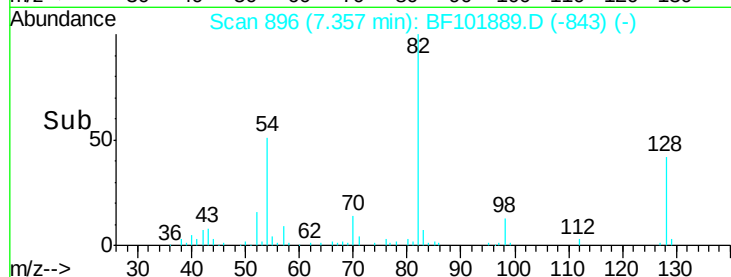
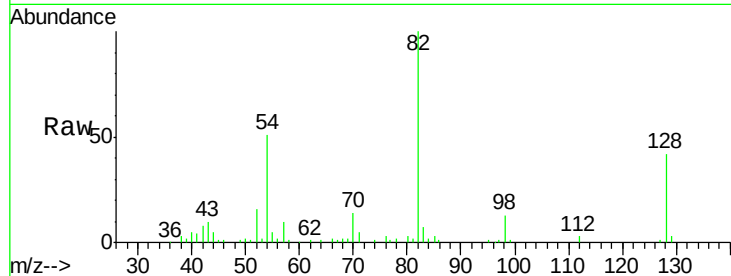
#23  
Nitrobenzene-d5  
Concen: 15.917 ng  
RT: 7.36 min Scan# 896  
Delta R.T. 0.01 min  
Lab File: BF101889.D  
Acq: 4 Jan 2018 14:32

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-010318-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 134655 |       |       |
| 128     | 41.5  | 36.1   | 54.1  |       |
| 54      | 51.4  | 41.4   | 62.2  |       |

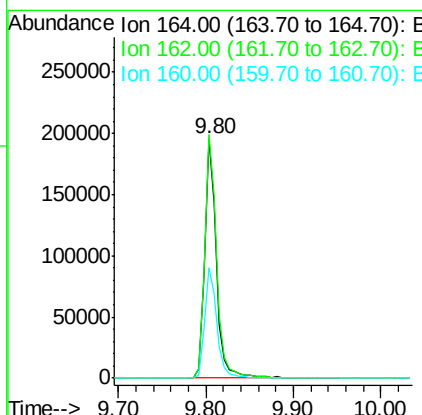
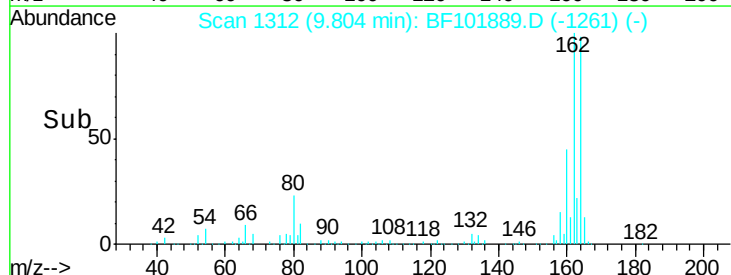
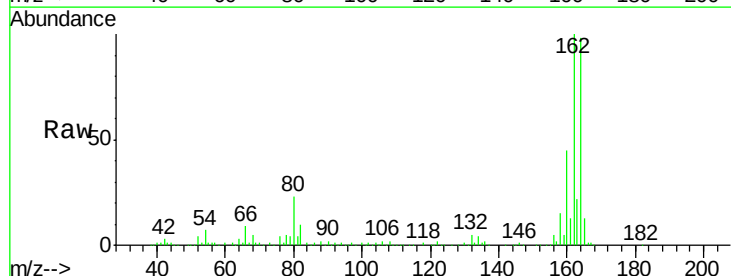
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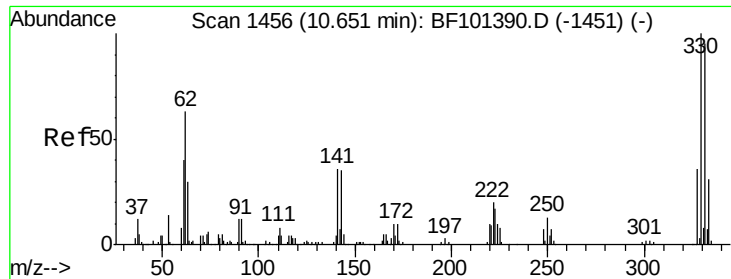
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.80 min Scan# 1312  
Delta R.T. 0.00 min  
Lab File: BF101889.D  
Acq: 4 Jan 2018 14:32

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 181774 |       |       |
| 162     | 102.0 | 86.1   | 129.1 |       |
| 160     | 46.2  | 38.3   | 57.5  |       |





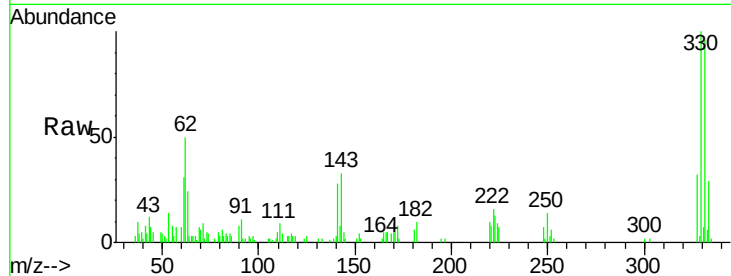
#41  
2,4,6-Tribromophenol  
Concen: 15.663 ng  
RT: 10.62 min Scan# 1450  
Delta R.T. 0.01 min  
Lab File: BF101889.D  
Acq: 4 Jan 2018 14:32

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-010318-A

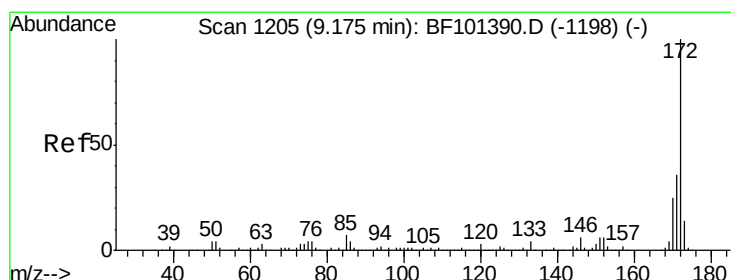
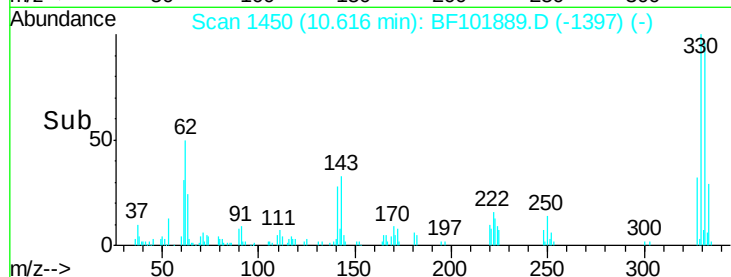
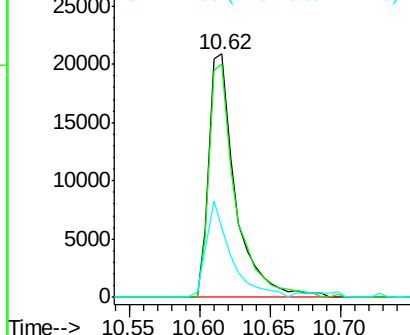
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.6  | 77.0  | 115.6 |
| 141     | 36.5  | 29.9  | 44.9  |

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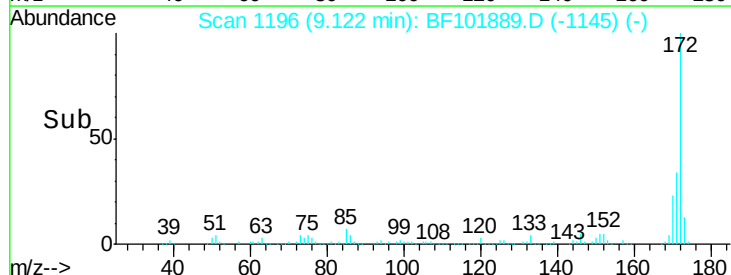
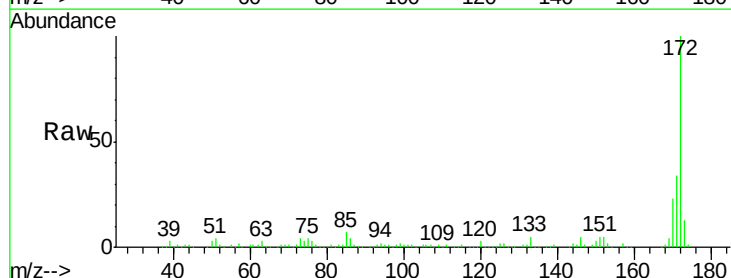
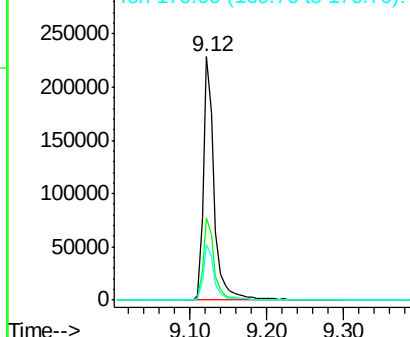
Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E

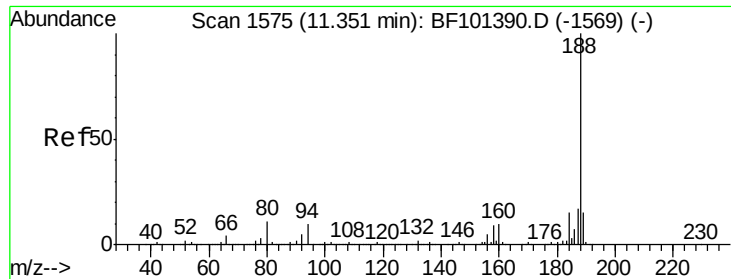


#44  
2-Fluorobiphenyl  
Concen: 19.129 ng  
RT: 9.12 min Scan# 1196  
Delta R.T. 0.00 min  
Lab File: BF101889.D  
Acq: 4 Jan 2018 14:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.1  | 29.7  | 44.5  |
| 170     | 23.0  | 19.6  | 29.4  |

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





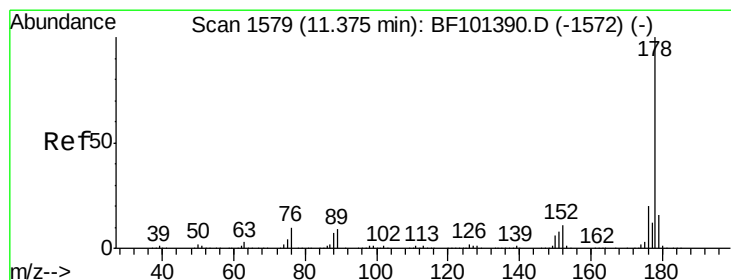
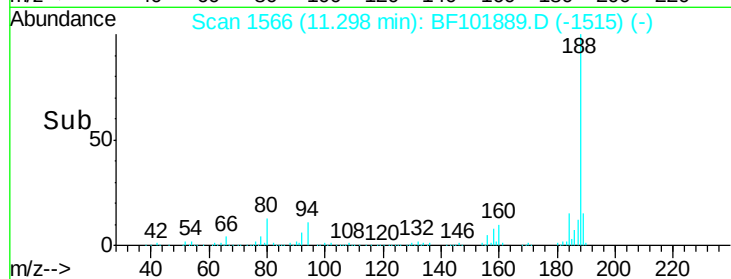
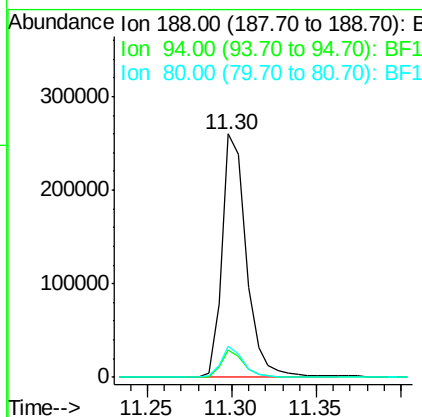
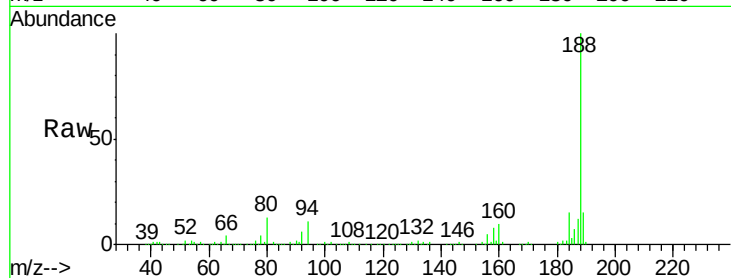
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Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.30 min Scan# 1566  
Delta R.T. 0.00 min  
Lab File: BF101889.D  
Acq: 4 Jan 2018 14:32

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-010318-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 263023 |       |       |
| 94      | 11.5  |        | 8.5   | 12.7  |
| 80      | 12.8  |        | 9.2   | 13.8  |

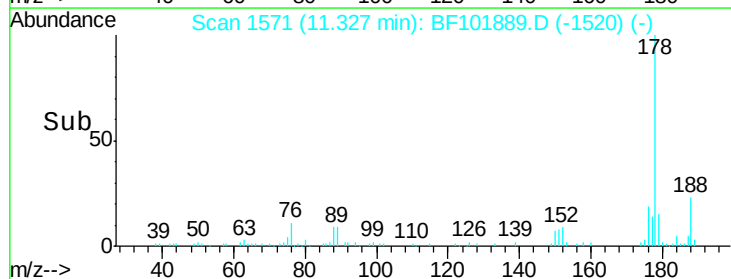
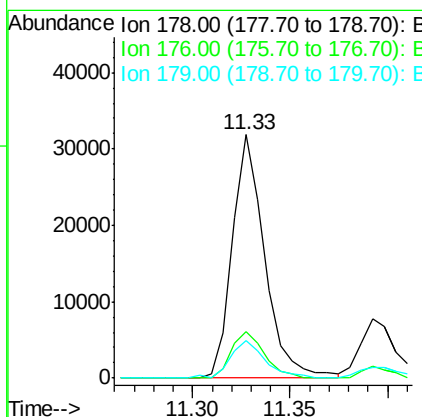
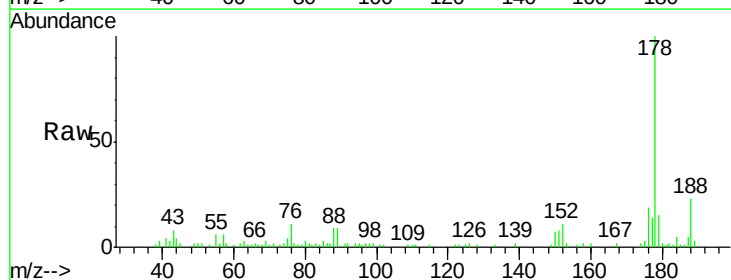
Manual Integrations  
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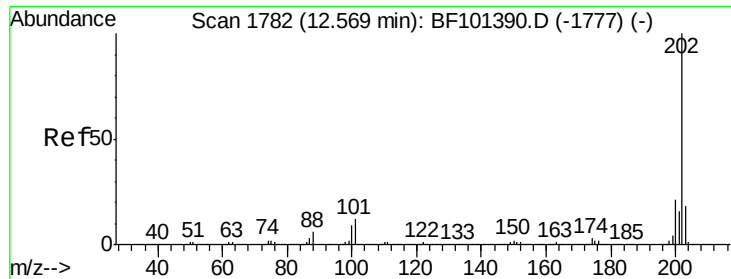
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#70  
Phenanthrene  
Concen: 2.510 ng  
RT: 11.33 min Scan# 1571  
Delta R.T. 0.00 min  
Lab File: BF101889.D  
Acq: 4 Jan 2018 14:32

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 36720 |       |       |
| 176     | 19.0  |       | 15.8  | 23.8  |
| 179     | 15.3  |       | 13.0  | 19.6  |





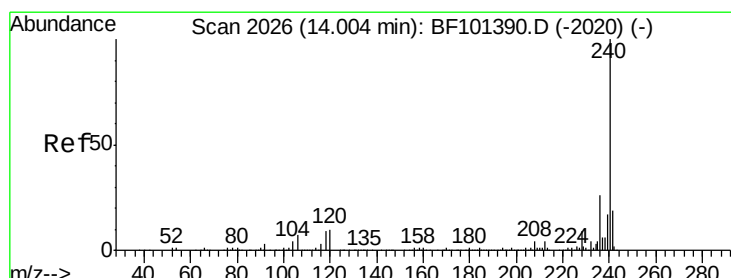
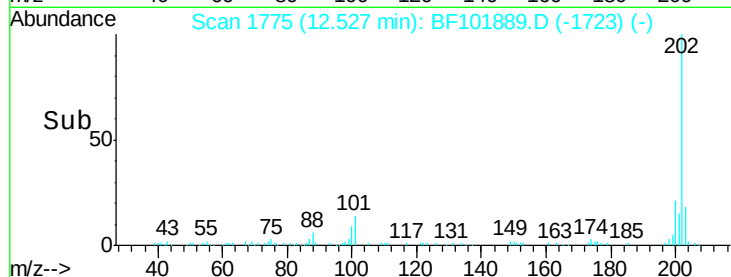
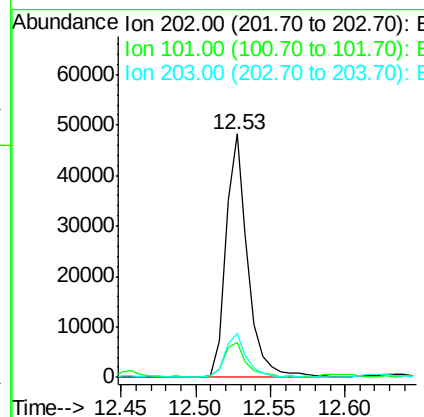
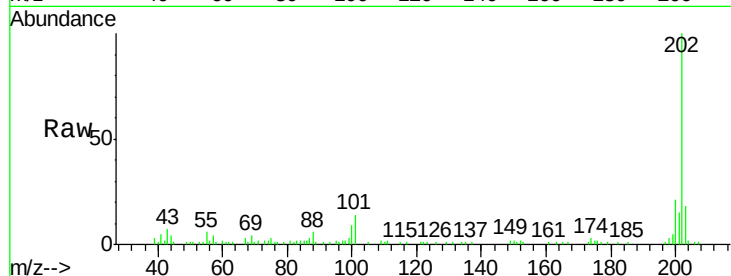
#74  
Fluoranthene  
Concen: 3.221 ng  
RT: 12.53 min Scan# 1775  
Delta R.T. 0.01 min  
Lab File: BF101889.D  
Acq: 4 Jan 2018 14:32

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-010318-A

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 49451 |       |       |
| 101     | 14.2  | 0.0   | 34.1  |       |
| 203     | 17.9  | 0.0   | 38.1  |       |

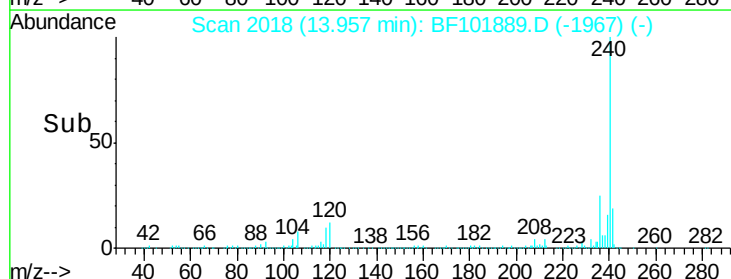
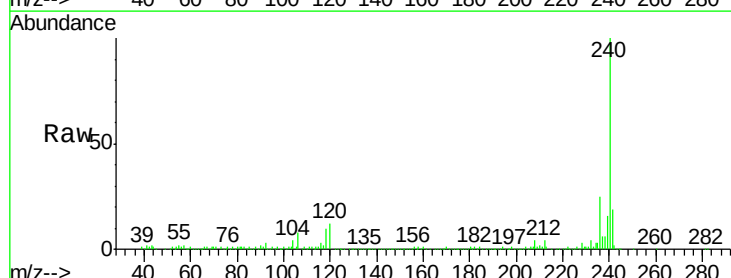
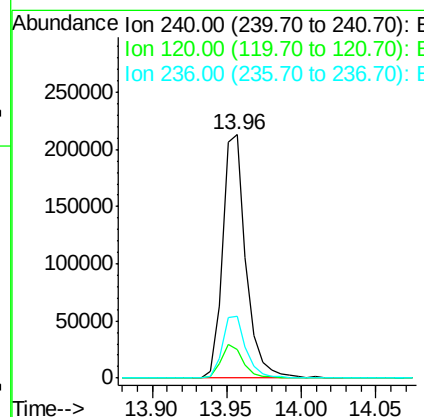
Manual Integrations  
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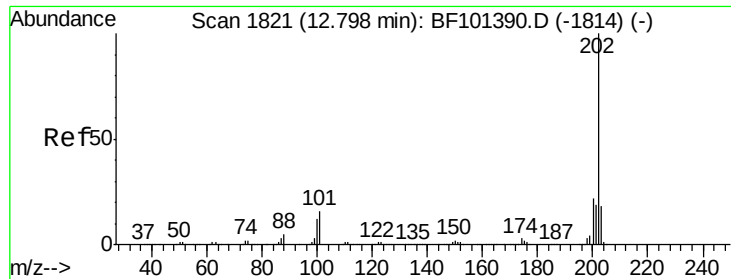


#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.96 min Scan# 2018  
Delta R.T. 0.00 min  
Lab File: BF101889.D  
Acq: 4 Jan 2018 14:32

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 233416 |       |       |
| 120     | 11.6  | 9.5    | 14.3  |       |
| 236     | 25.2  | 20.7   | 31.1  |       |







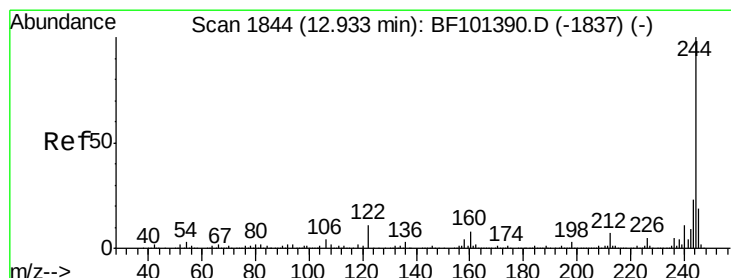
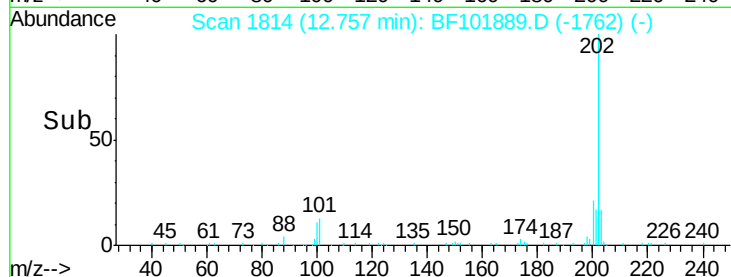
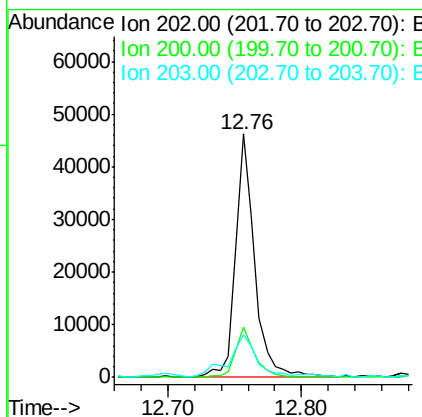
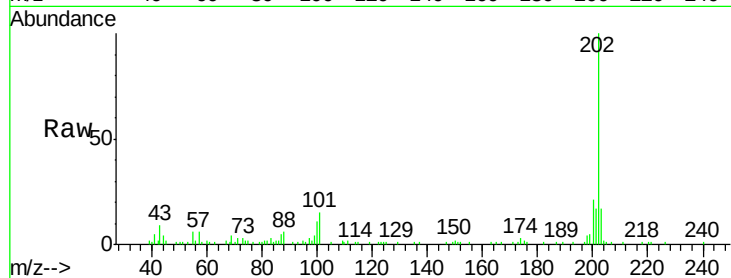
#77  
Pvrene  
Concen: 2.661 ng  
RT: 12.76 min Scan# 1814  
Delta R.T. 0.01 min  
Lab File: BF101889.D  
Acq: 4 Jan 2018 14:32

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-010318-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 17.4  | 26.2  |
| 203     | 17.4  | 14.3  | 21.5  |

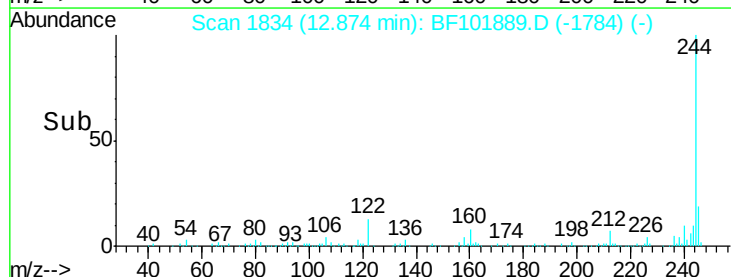
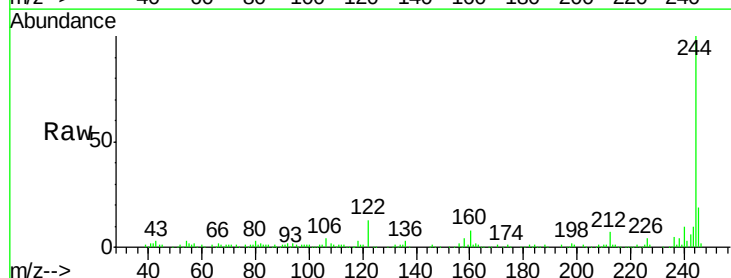
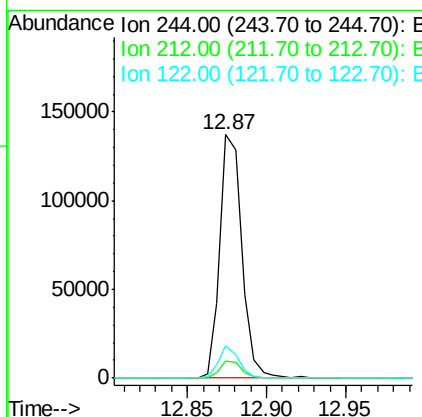
Manual Integrations  
APPROVED

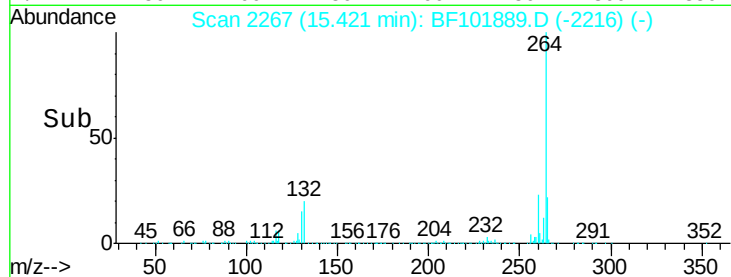
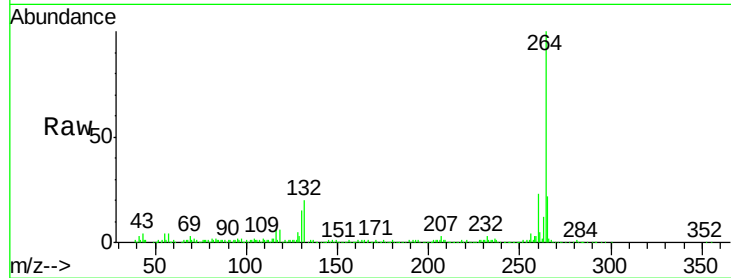
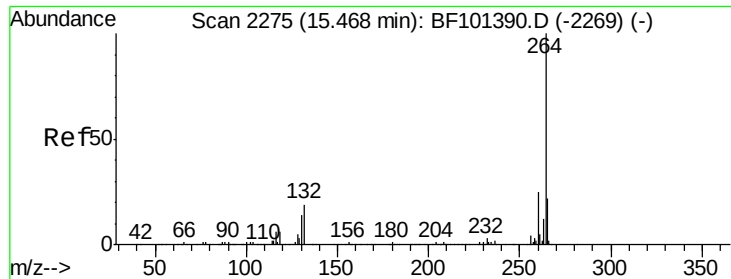
Sohil  
1/5/2018 10:29:21 AM



#78  
Terphenyl-d14  
Concen: 13.645 ng  
RT: 12.87 min Scan# 1834  
Delta R.T. -0.01 min  
Lab File: BF101889.D  
Acq: 4 Jan 2018 14:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.8   | 5.4   | 8.0   |
| 122     | 13.2  | 11.0  | 16.4  |





#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.42 min Scan# 2267  
 Delta R.T. 0.00 min  
 Lab File: BF101889.D  
 Acq: 4 Jan 2018 14:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-03-010318-A

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 264     | 100   |            |            |
| 260     | 23.5  | 19.2       | 28.8       |
| 265     | 22.3  | 17.5       | 26.3       |

Manual Integrations  
 APPROVED

Sohil  
 1/5/2018 10:29:21 AM

