

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070218\  
 Data File : BF107051.D  
 Acq On : 2 Jul 2018 18:23  
 Operator : JU/SJ  
 Sample : J3629-13  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 A0C14-01

Manual Integrations  
 APPROVED

Sohil  
 7/3/2018 5:30:00 PM

Quant Time: Jul 03 01:45:37 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 29 14:38:29 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.96  | 152  | 58786    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.24  | 136  | 213275   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.00 | 164  | 90777    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.50 | 188  | 180992   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 14.16 | 240  | 142217   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.71 | 264  | 100498   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.60  | 112  | 74521    | 21.47 | ng    | 0.00     |
| 7) Phenol-d6                | 6.61  | 99   | 88112    | 20.32 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.52  | 82   | 41908    | 10.92 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 21292    | 20.24 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 102630   | 5.31  | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.08 | 244  | 124656   | 21.23 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 74) Fluoranthene            | 12.72 | 202  | 23634    | 2.456 | ng    | 94       |
| 77) Pyrene                  | 12.95 | 202  | 23434    | 2.499 | ng    | 99       |
| 87) Benzo(b)fluoranthene    | 15.25 | 252  | 12648m   | 2.026 | ng    |          |

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

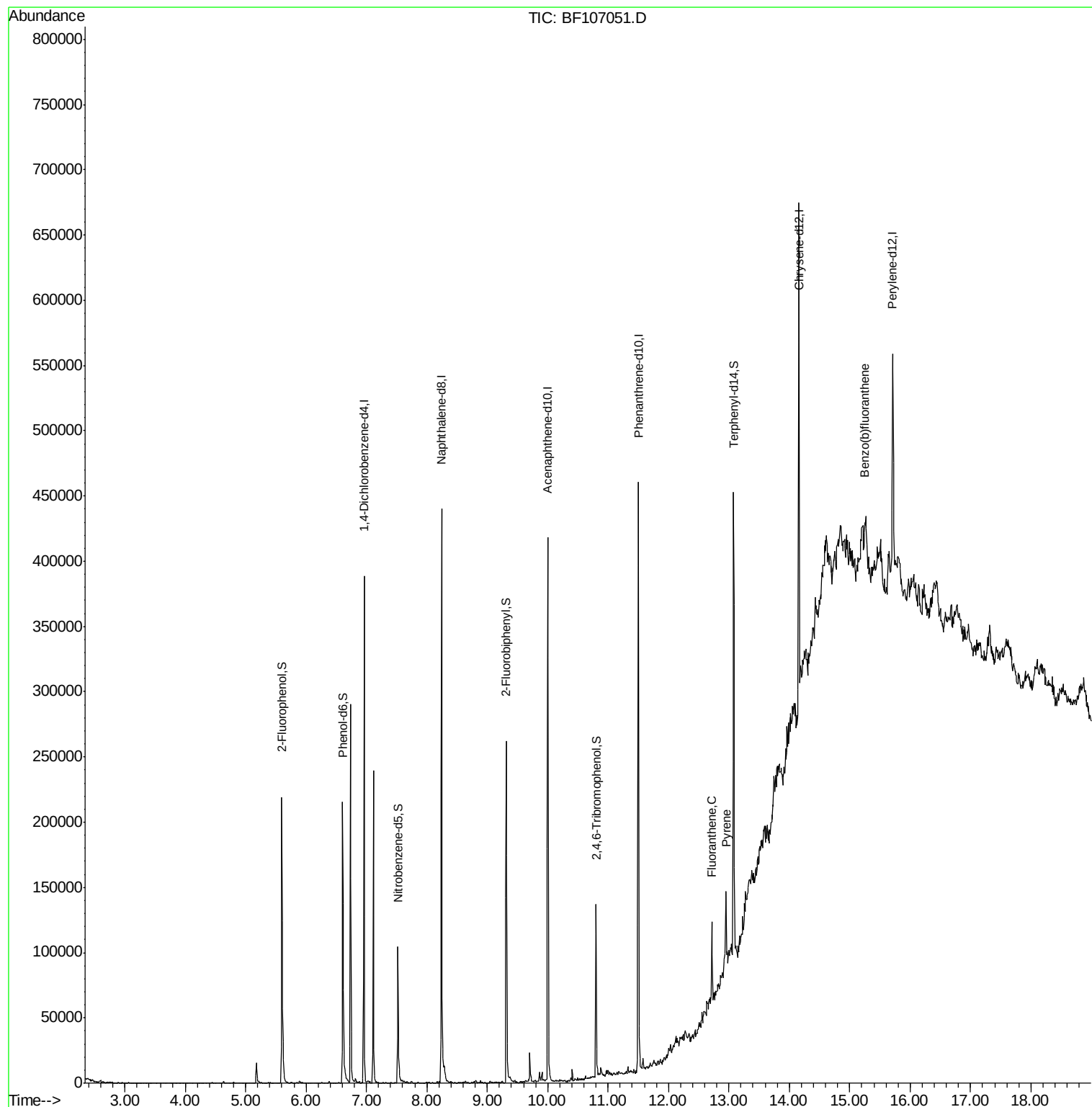
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070218\  
Data File : BF107051.D  
Acq On : 2 Jul 2018 18:23  
Operator : JU/SJ  
Sample : J3629-13  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

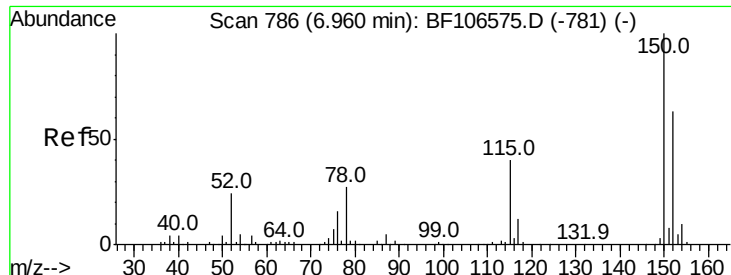
Instrument :  
BNA\_F  
ClientSampleId :  
A0C14-01

Quant Time: Jul 03 01:45:37 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 29 14:38:29 2018  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Sohil  
7/3/2018 5:30:00 PM





#1

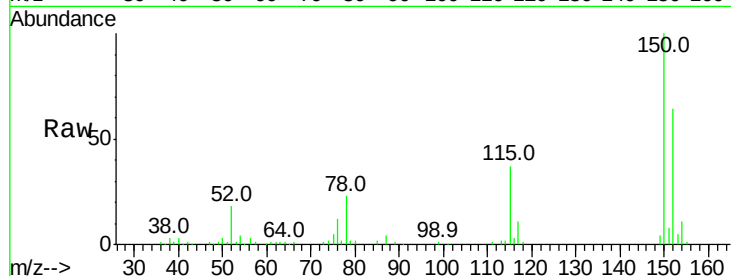
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.96 min Scan# 786  
Delta R.T. 0.00 min  
Lab File: BF107051.D  
Acq: 2 Jul 2018 18:23

Instrument :  
BNA\_F  
ClientSampleId :  
A0C14-01

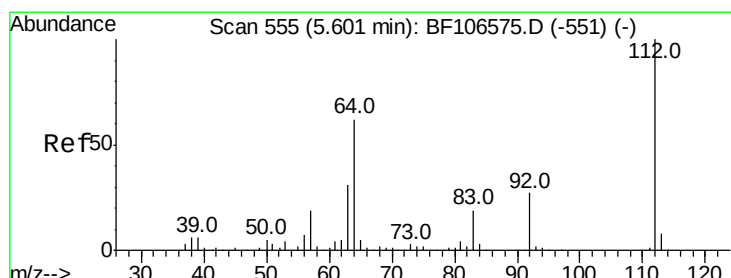
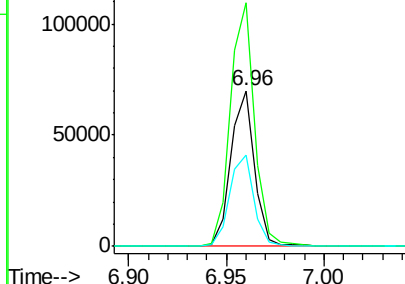
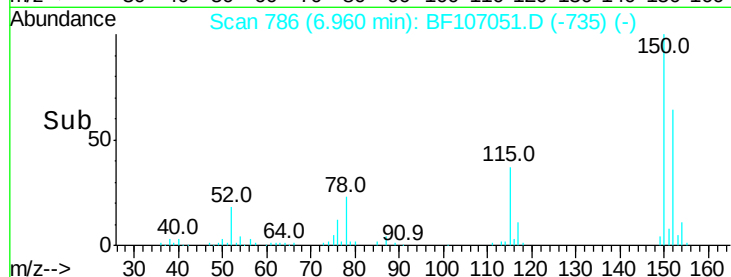
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.3 | 124.6 | 186.8 |
| 115     | 58.5  | 50.1  | 75.1  |

Manual Integrations  
APPROVED

Sohil  
7/3/2018 5:30:00 PM



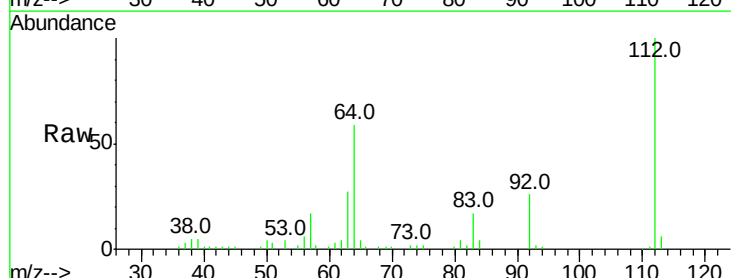
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



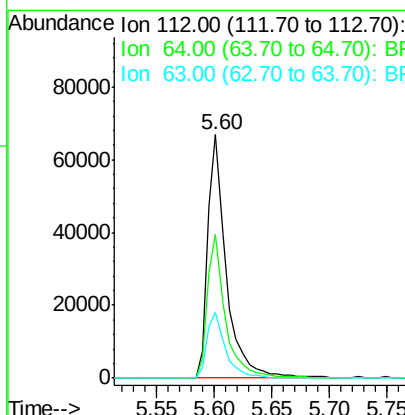
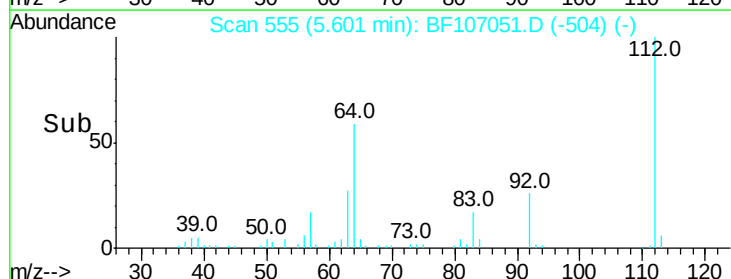
#5

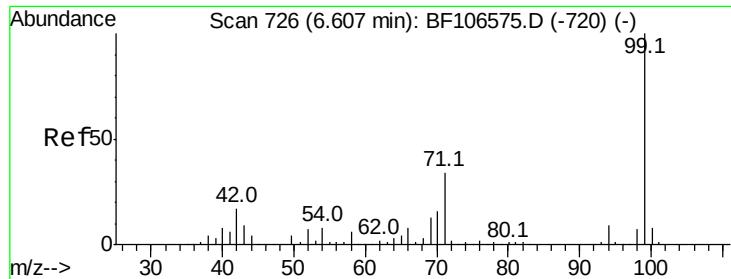
2-Fluorophenol  
Concen: 21.466 ng  
RT: 5.60 min Scan# 555  
Delta R.T. 0.00 min  
Lab File: BF107051.D  
Acq: 2 Jul 2018 18:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.3  | 47.9  | 71.9  |
| 63      | 27.2  | 23.7  | 35.5  |



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: 20.324 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF107051.D

Acq: 2 Jul 2018 18:23

Instrument :

BNA\_F

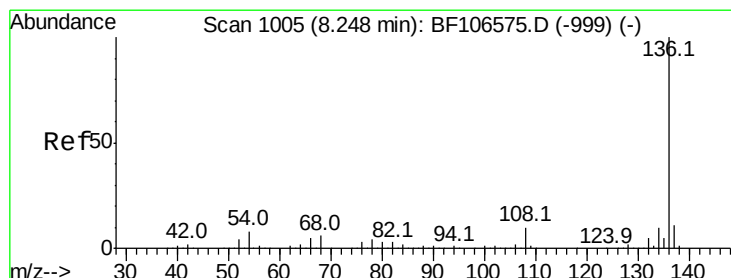
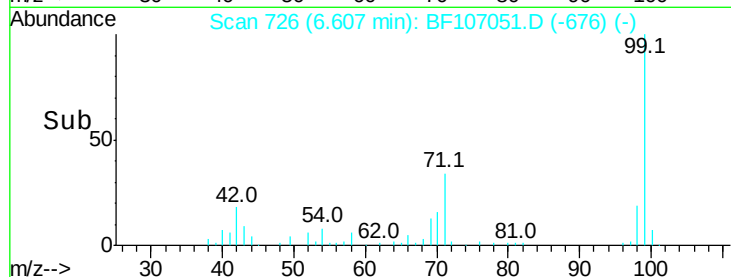
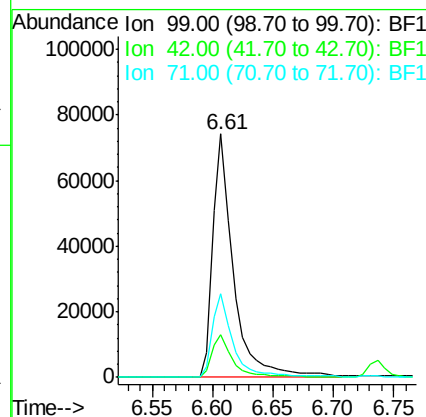
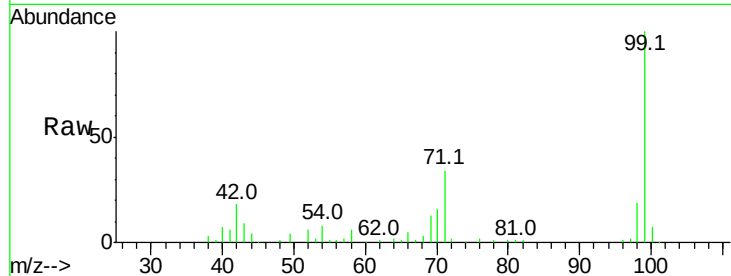
ClientSampled :

A0C14-01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 88112 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 17.6  | 14.5  | 21.7  |
| 71        | 34.3  | 25.4  | 38.0  |

Manual Integrations  
APPROVED

Sohil  
7/3/2018 5:30:00 PM



#21

Naphthalene-d8

Concen: 20.000 ng

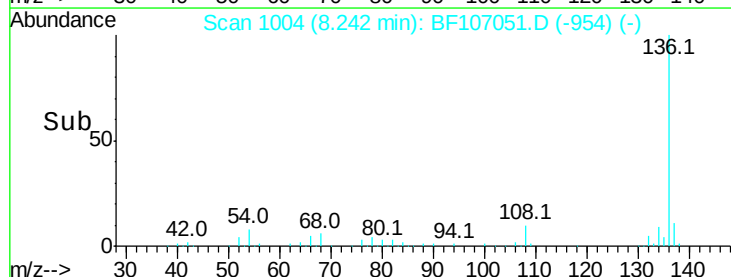
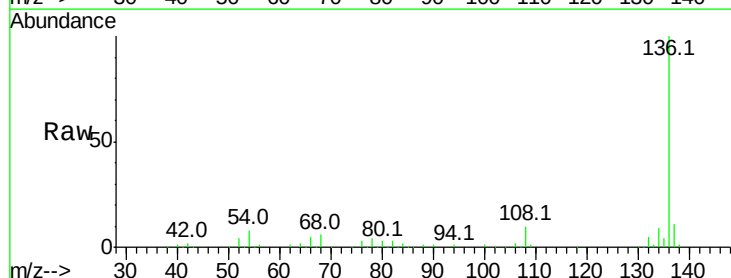
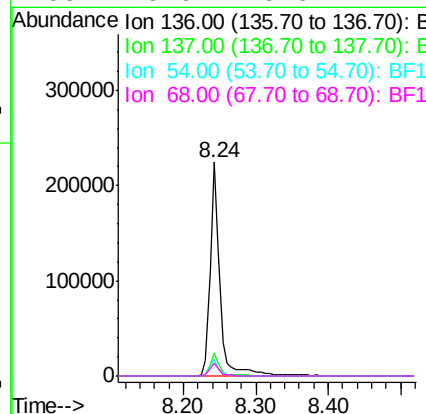
RT: 8.24 min Scan# 1004

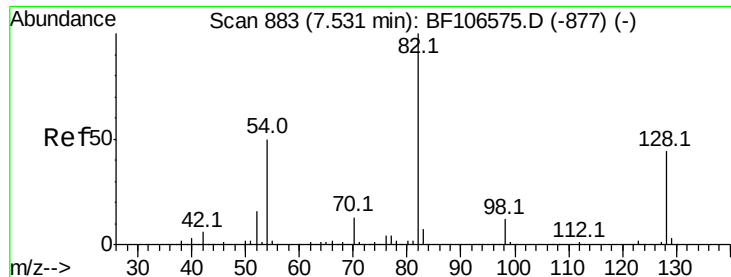
Delta R.T. -0.01 min

Lab File: BF107051.D

Acq: 2 Jul 2018 18:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 213275 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.7  | 8.9   | 13.3   |
| 54        | 7.8   | 6.6   | 9.8    |
| 68        | 5.9   | 5.0   | 7.4    |





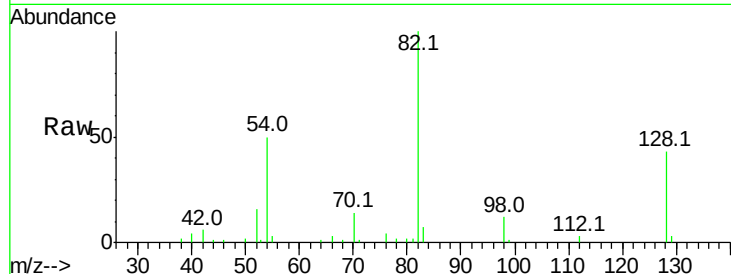
#23  
Nitrobenzene-d5  
Concen: 10.920 ng  
RT: 7.52 min Scan# 881  
Delta R.T. -0.02 min  
Lab File: BF107051.D  
Acq: 2 Jul 2018 18:23

Instrument :  
BNA\_F  
ClientSampled :  
A0C14-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.2  | 36.1  | 54.1  |
| 54      | 50.2  | 41.4  | 62.2  |

Manual Integrations  
APPROVED

Sohil  
7/3/2018 5:30:00 PM

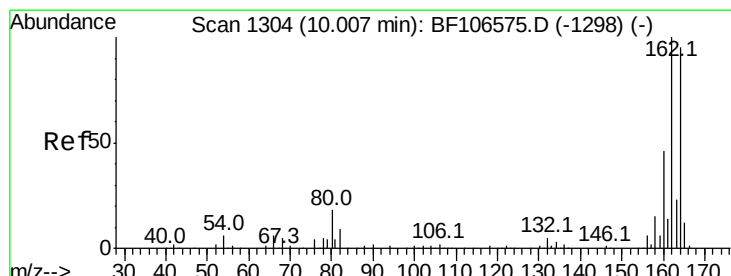
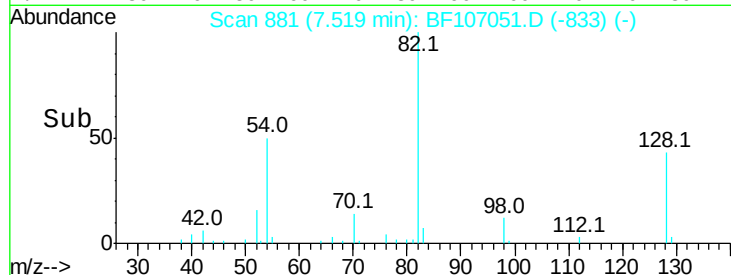
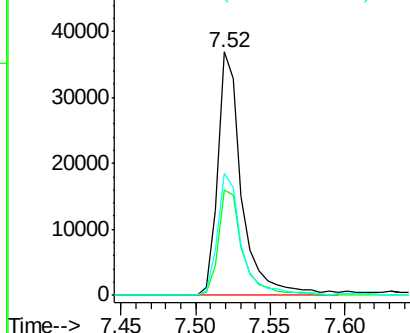


Abundance

Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.00 min Scan# 1303  
Delta R.T. -0.01 min  
Lab File: BF107051.D  
Acq: 2 Jul 2018 18:23

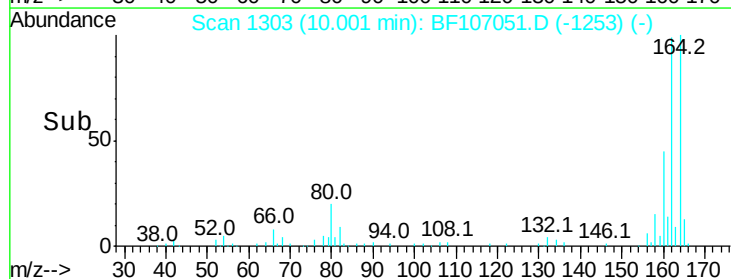
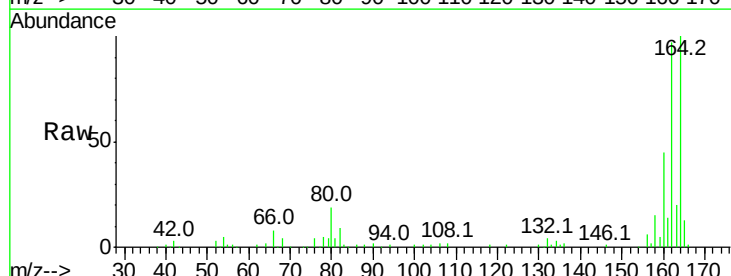
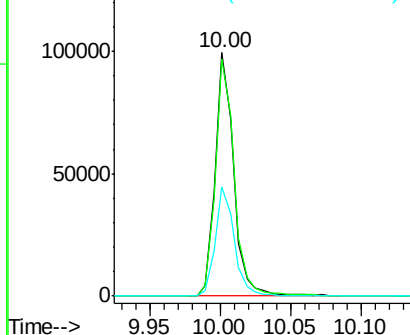
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 97.4  | 86.1  | 129.1 |
| 160     | 44.7  | 38.3  | 57.5  |

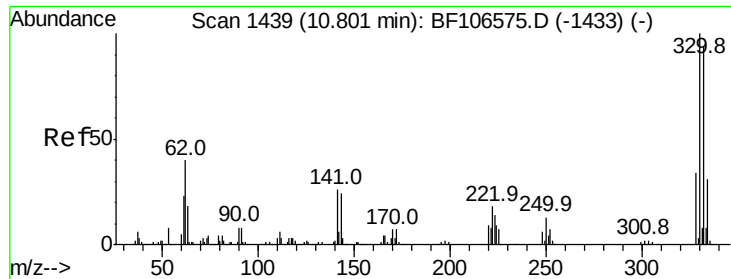
Abundance

Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1





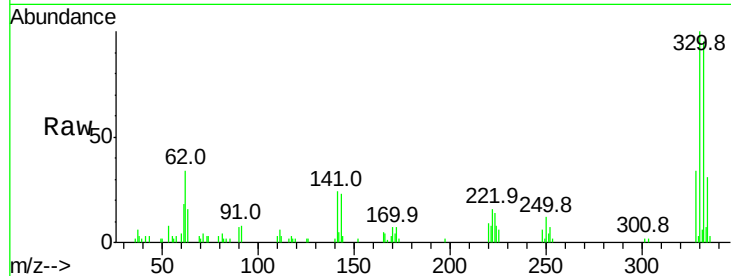
#41  
 2,4,6-Tribromophenol  
 Concen: 20.237 ng  
 RT: 10.80 min Scan# 1439  
 Delta R.T. 0.00 min  
 Lab File: BF107051.D  
 Acq: 2 Jul 2018 18:23

Instrument :  
 BNA\_F  
 ClientSampled :  
 A0C14-01

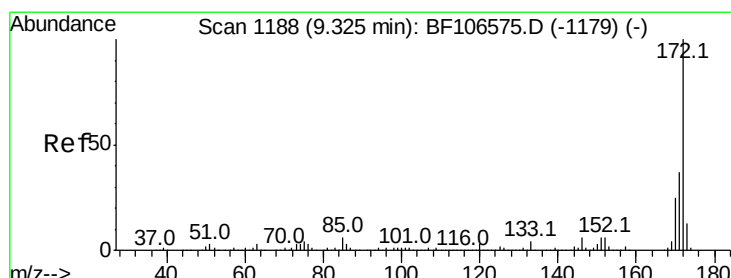
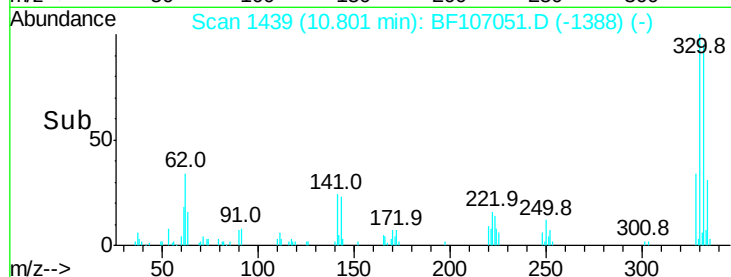
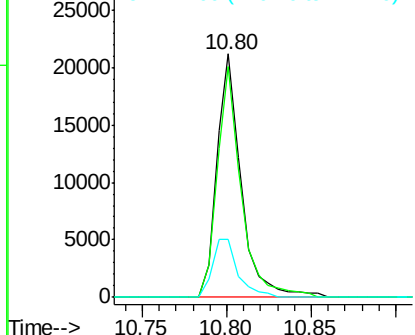
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 93.6  | 77.0 | 115.6 |       |
| 141     | 25.5  | 29.9 | 44.9  |       |

Manual Integrations  
 APPROVED

Sohil  
 7/3/2018 5:30:00 PM



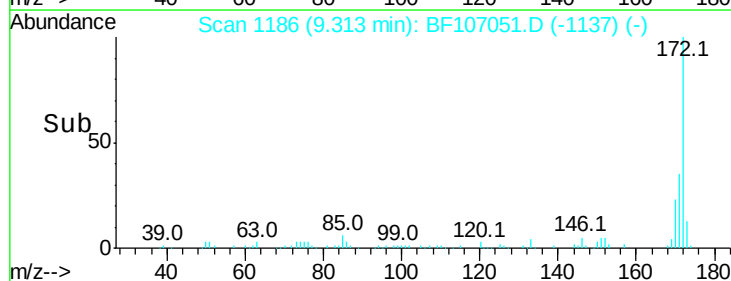
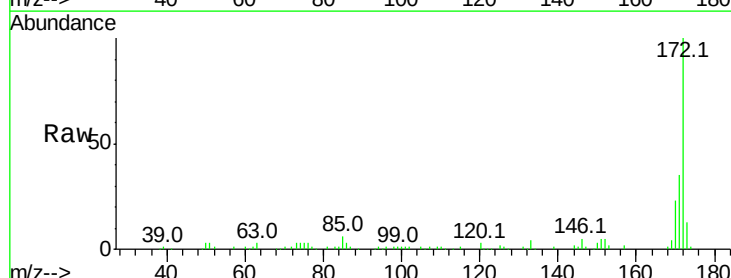
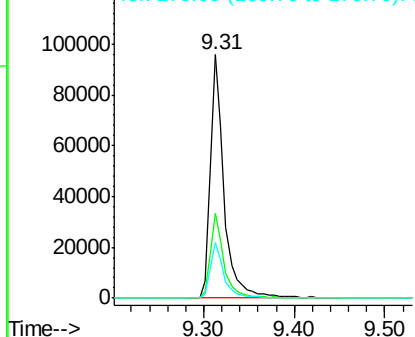
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

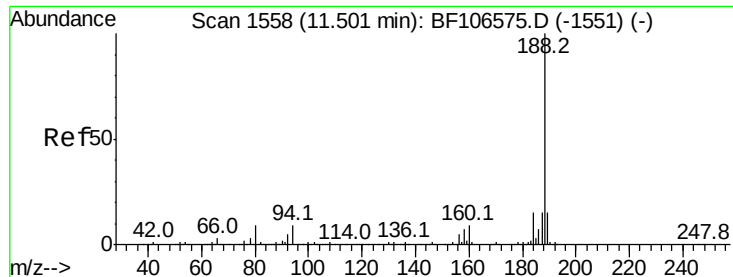


#44  
 2-Fluorobiphenyl  
 Concen: 5.306 ng  
 RT: 9.31 min Scan# 1186  
 Delta R.T. -0.01 min  
 Lab File: BF107051.D  
 Acq: 2 Jul 2018 18:23

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 34.9  | 29.7 | 44.5  |       |
| 170     | 22.7  | 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





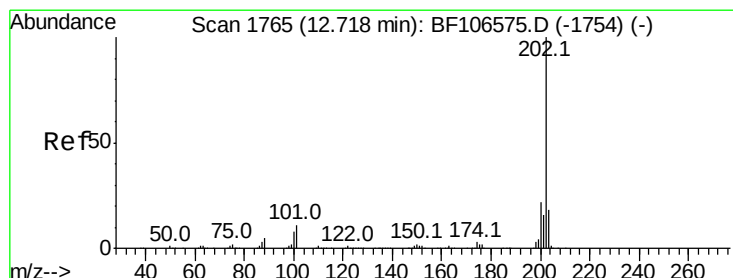
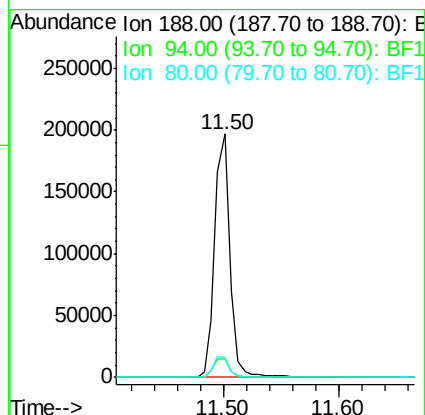
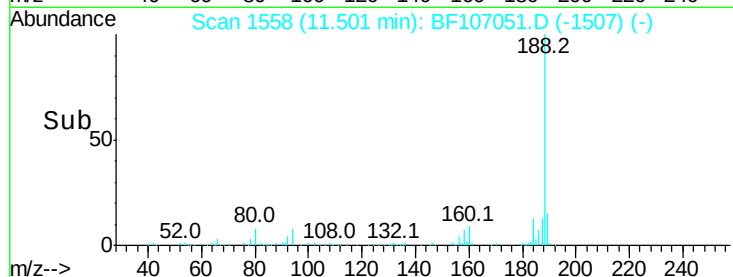
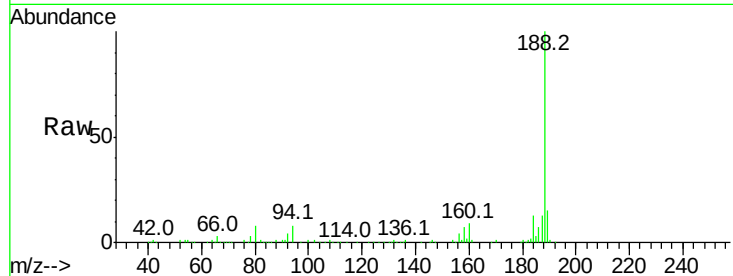
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.50 min Scan# 1558  
Delta R.T. 0.00 min  
Lab File: BF107051.D  
Acq: 2 Jul 2018 18:23

Instrument :  
BNA\_F  
ClientSampled :  
A0C14-01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 180992 |       |       |
| 94      | 7.7   |        | 8.5   | 12.7# |
| 80      | 8.2   |        | 9.2   | 13.8# |

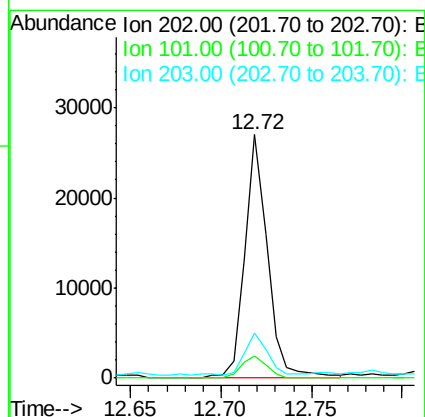
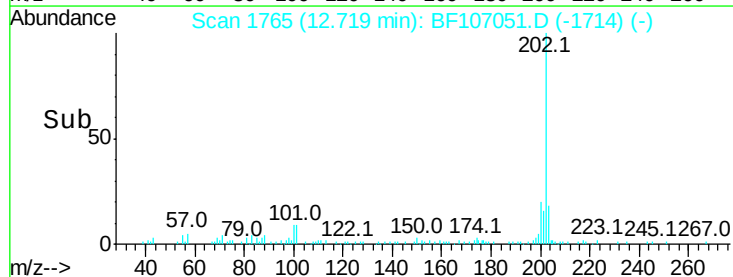
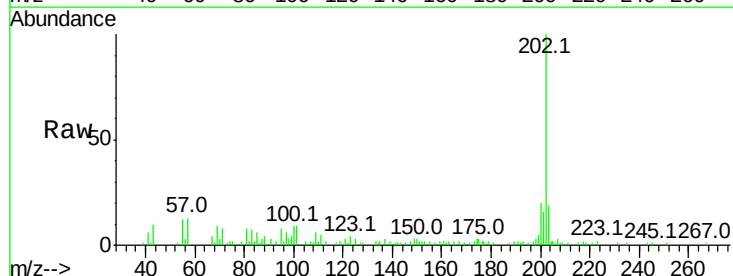
Manual Integrations  
APPROVED

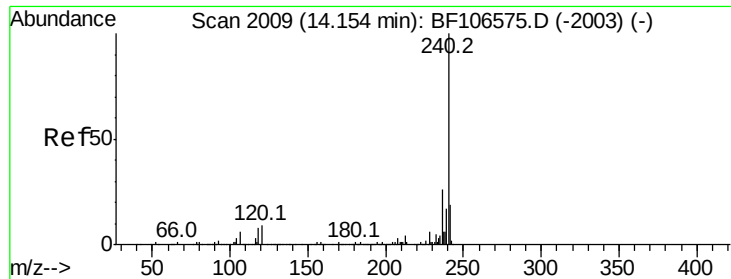
Sohil  
7/3/2018 5:30:00 PM



#74  
Fluoranthene  
Concen: 2.456 ng  
RT: 12.72 min Scan# 1765  
Delta R.T. 0.00 min  
Lab File: BF107051.D  
Acq: 2 Jul 2018 18:23

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 23634 |       |       |
| 101     | 9.2   |       | 0.0   | 34.1  |
| 203     | 18.7  |       | 0.0   | 38.1  |





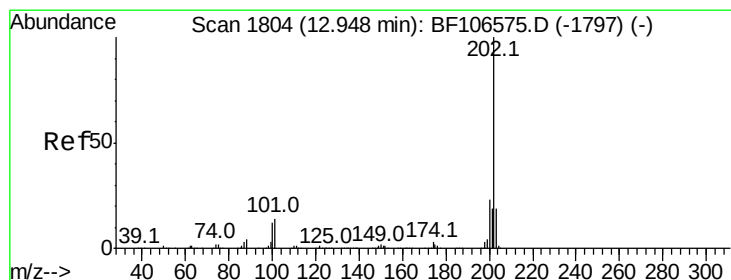
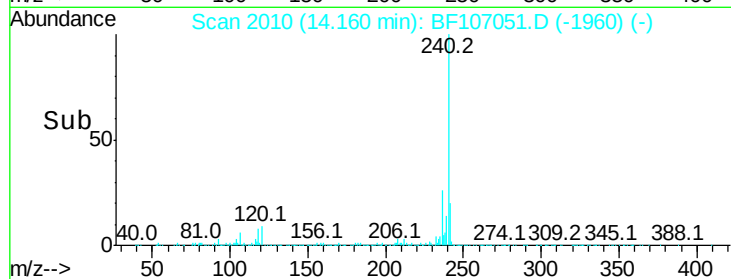
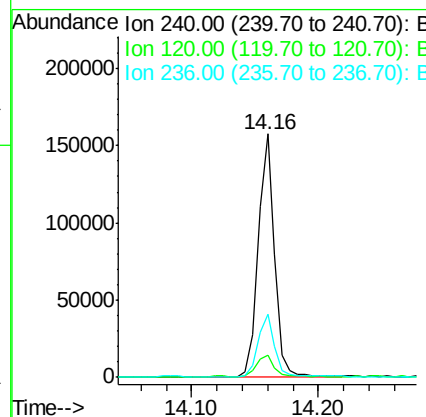
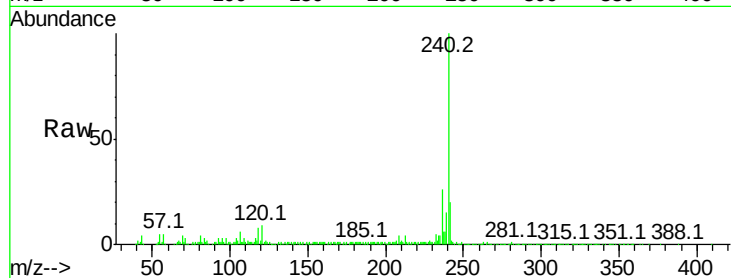
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.16 min Scan# 2010  
Delta R.T. -0.01 min  
Lab File: BF107051.D  
Acq: 2 Jul 2018 18:23

Instrument :  
BNA\_F  
ClientSampleId :  
A0C14-01

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 9.0   | 9.5        | 14.3# |
| 236     | 25.9  | 20.7       | 31.1  |

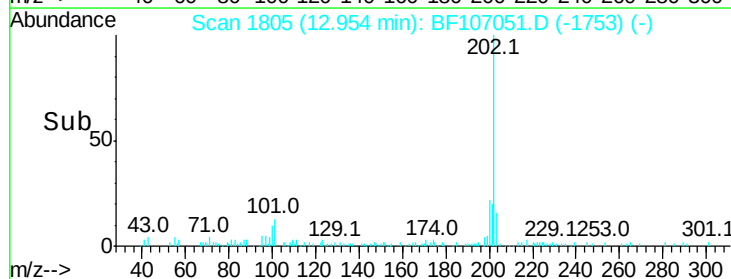
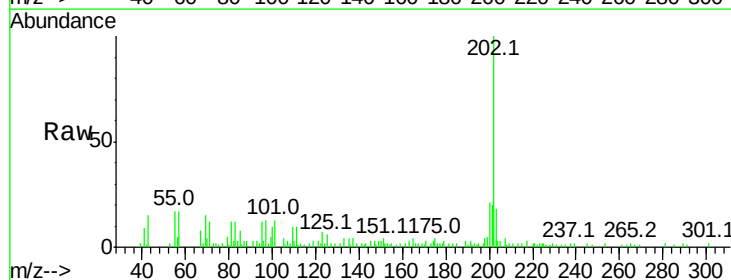
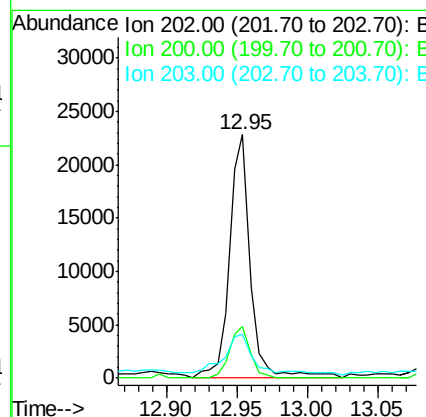
Manual Integrations  
APPROVED

Sohil  
7/3/2018 5:30:00 PM

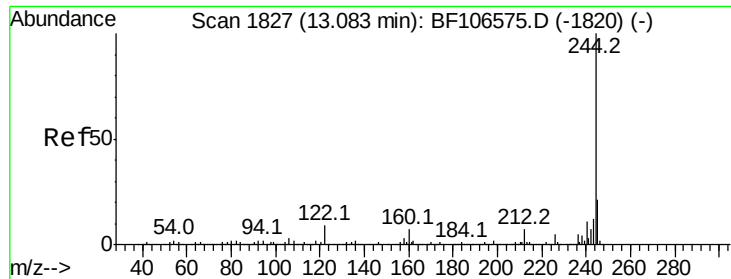


#77  
Pyrene  
Concen: 2.499 ng  
RT: 12.95 min Scan# 1805  
Delta R.T. 0.01 min  
Lab File: BF107051.D  
Acq: 2 Jul 2018 18:23

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 21.2  | 17.4       | 26.2  |
| 203     | 17.9  | 14.3       | 21.5  |







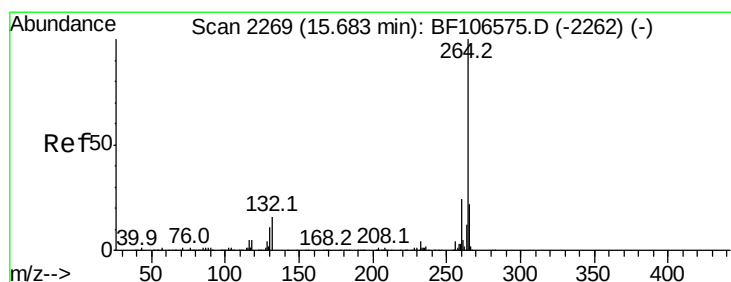
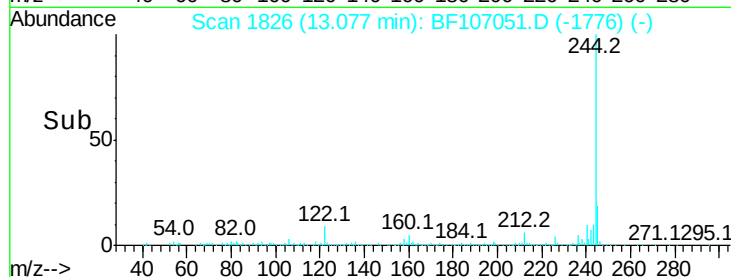
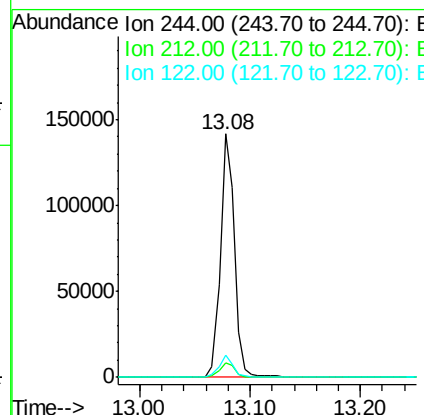
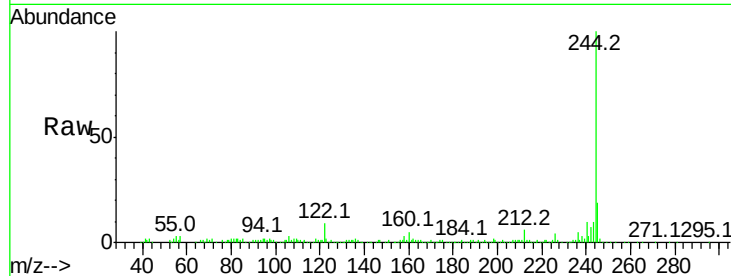
#78  
 Terphenyl-d14  
 Concen: 21.232 ng  
 RT: 13.08 min Scan# 1826  
 Delta R.T. -0.01 min  
 Lab File: BF107051.D  
 Acq: 2 Jul 2018 18:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 A0C14-01

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 5.9   | 5.4        | 8.0   |
| 122     | 9.1   | 11.0       | 16.4  |

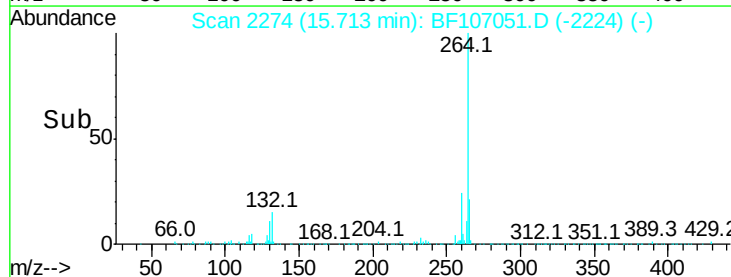
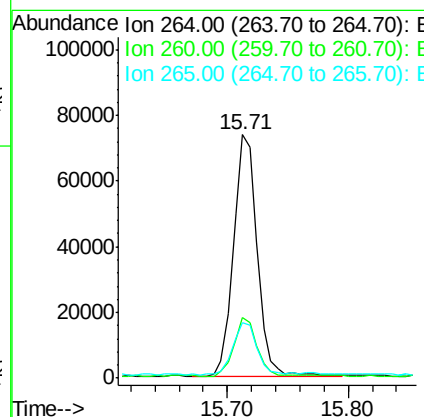
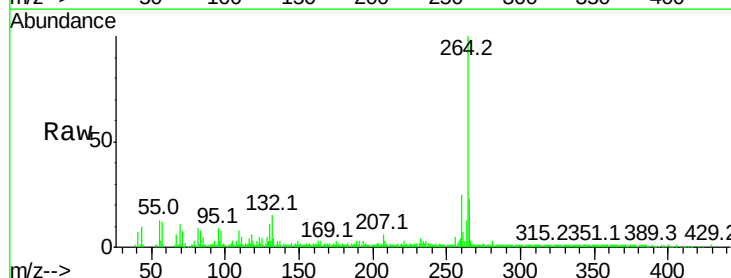
Manual Integrations  
 APPROVED

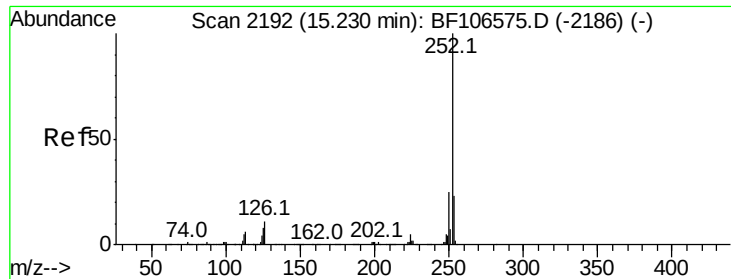
Sohil  
 7/3/2018 5:30:00 PM



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.71 min Scan# 2274  
 Delta R.T. -0.01 min  
 Lab File: BF107051.D  
 Acq: 2 Jul 2018 18:23

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 264     | 100   |            |       |
| 260     | 25.0  | 19.2       | 28.8  |
| 265     | 22.6  | 17.5       | 26.3  |





#87  
 Benzo(b)fluoranthene  
 Concen: 2.026 ng/ml  
 RT: 15.25 min Scan# 2195  
 Delta R.T. -0.01 min  
 Lab File: BF107051.D  
 Acq: 2 Jul 2018 18:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 A0C14-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 34.3  | 17.0  | 25.6# |
| 125     | 37.6  | 9.0   | 13.6# |

Manual Integrations  
 APPROVED

Sohil  
 7/3/2018 5:30:00 PM

