

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111717\  
 Data File : BF100709.D  
 Acq On : 18 Nov 2017 9:04  
 Operator : SJ/JU  
 Sample : I6460-02 10X  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-28-2-1.5-3

Manual Integrations  
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SOHIL  
 11/20/2017 2:51:32 PM

Quant Time: Nov 20 03:49:51 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 17 15:22:08 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|-------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.88  | 152  | 89820    | 20.00 | ng    | 0.00         |
| 21) Naphthalene-d8          | 8.16  | 136  | 329832   | 20.00 | ng    | 0.00         |
| 38) Acenaphthene-d10        | 9.92  | 164  | 128889   | 20.00 | ng    | 0.00         |
| 63) Phenanthrene-d10        | 11.40 | 188  | 212692   | 20.00 | ng    | 0.00         |
| 75) Chrysene-d12            | 14.04 | 240  | 215058   | 20.00 | ng    | 0.00         |
| 86) Perylene-d12            | 15.52 | 264  | 180123   | 20.00 | ng    | 0.00         |
| System Monitoring Compounds |       |      |          |       |       |              |
| 5) 2-Fluorophenol           | 5.49  | 112  | 53308    | 9.51  | ng    | 0.00         |
| 7) Phenol-d6                | 6.49  | 99   | 61606    | 8.92  | ng    | -0.02        |
| 23) Nitrobenzene-d5         | 7.44  | 82   | 35160    | 7.05  | ng    | -0.01        |
| 41) 2,4,6-Tribromophenol    | 10.70 | 330  | 10438    | 7.95  | ng    | 0.00         |
| 44) 2-Fluorobiphenyl        | 9.23  | 172  | 69200    | 8.18  | ng    | 0.00         |
| 78) Terphenyl-d14           | 12.98 | 244  | 52213    | 5.58  | ng    | 0.00         |
| Target Compounds            |       |      |          |       |       |              |
| 74) Fluoranthene            | 12.62 | 202  | 28176    | 2.374 | ng    | Qvalue<br>94 |
| 87) Benzo(b)fluoranthene    | 15.08 | 252  | 22314m   | 2.091 | ng    |              |

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

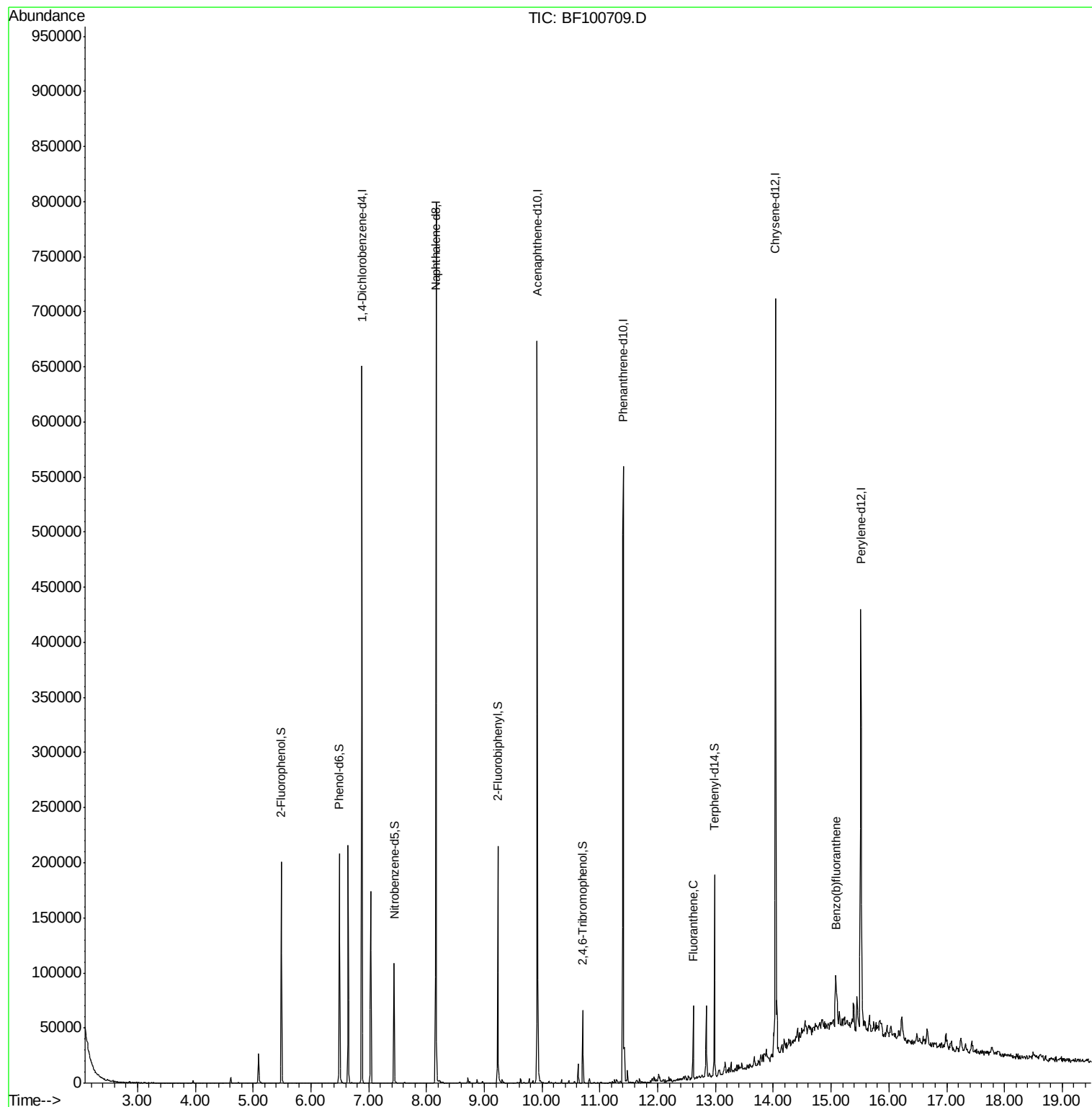
Data Path : Z:\HPCHEM1\BNA F\DATA\BF111717\  
Data File : BF100709.D  
Acq On : 18 Nov 2017 9:04  
Operator : SJ/JU  
Sample : I6460-02 10X  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

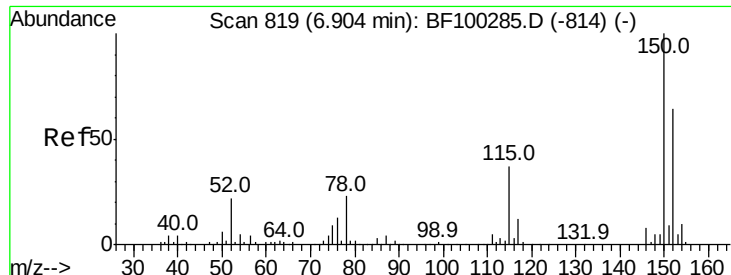
Instrument :  
BNA\_F  
ClientSampleId :  
G-28-2-1.5-3

Manual Integrations  
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11/20/2017 2:51:32 PM

Quant Time: Nov 20 03:49:51 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 17 15:22:08 2017  
Response via : Initial Calibration





#1

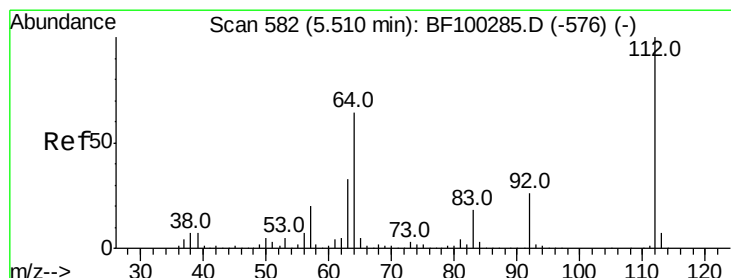
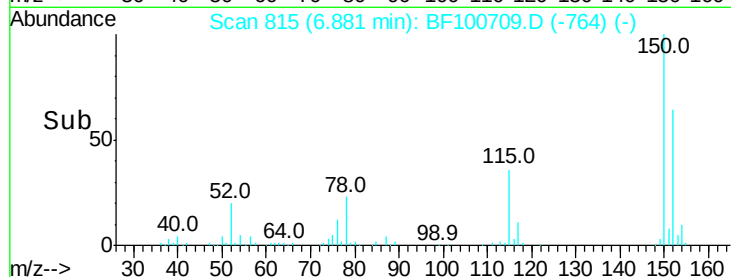
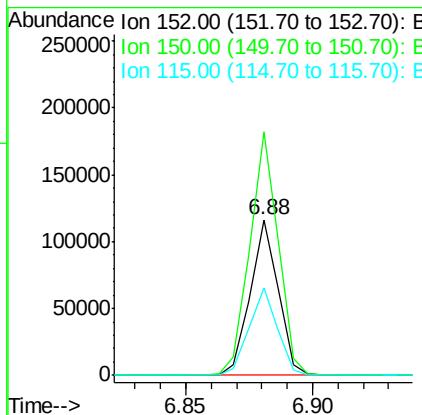
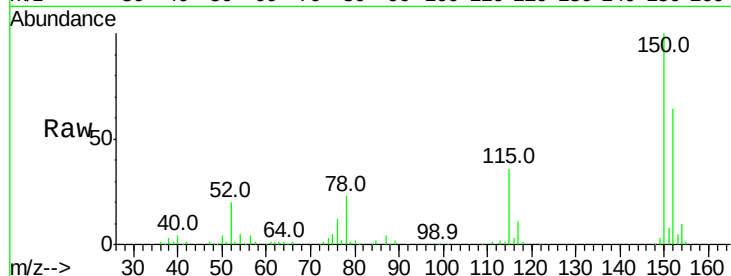
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.00 min  
Lab File: BF100709.D  
Acq: 18 Nov 2017 9:04

Instrument :  
BNA\_F  
ClientSampleId :  
G-28-2-1.5-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.3 | 124.6 | 186.8 |
| 115     | 56.5  | 50.1  | 75.1  |

Manual Integrations  
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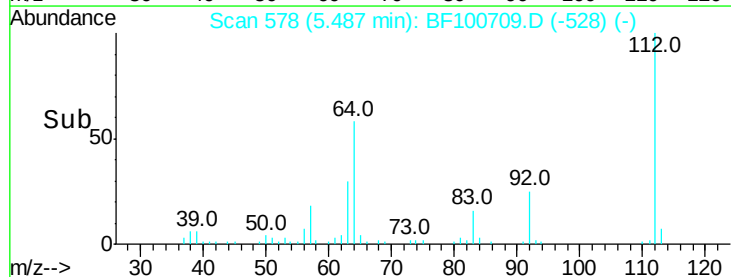
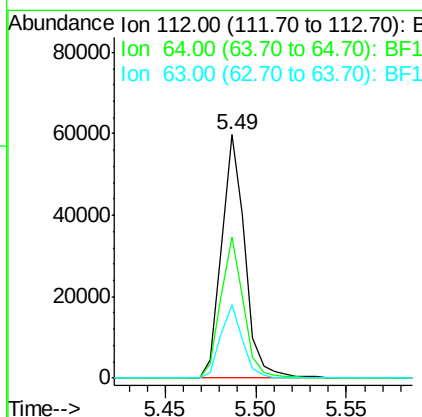
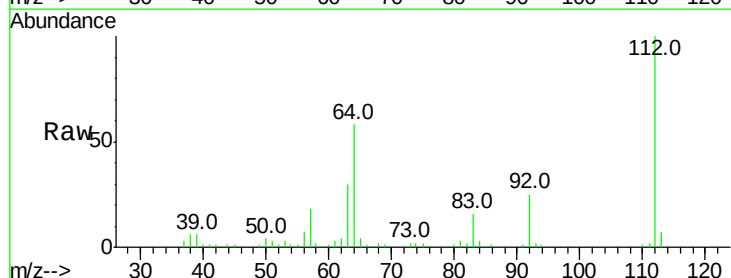
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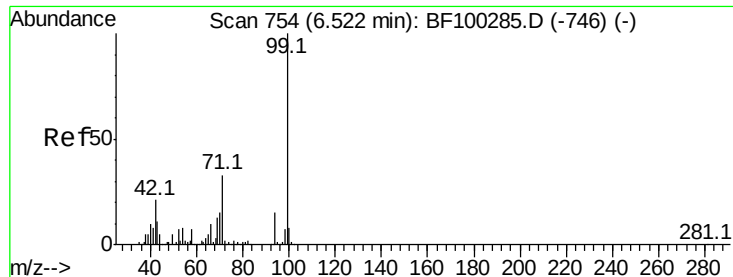


#5

2-Fluorophenol  
Concen: 9.514 ng  
RT: 5.49 min Scan# 578  
Delta R.T. -0.01 min  
Lab File: BF100709.D  
Acq: 18 Nov 2017 9:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.9  | 47.9  | 71.9  |
| 63      | 30.0  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 8.916 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.02 min

Lab File: BF100709.D

Acq: 18 Nov 2017 9:04

Instrument :

BNA\_F

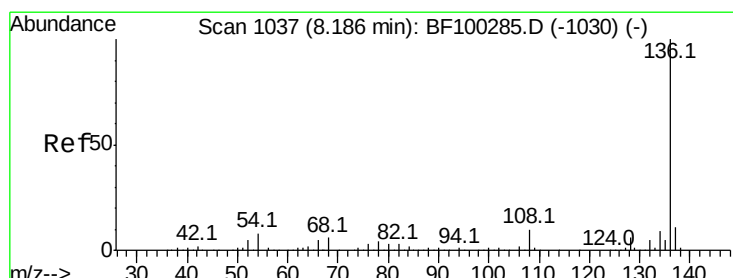
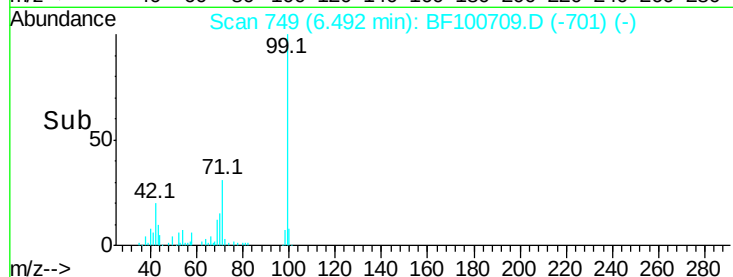
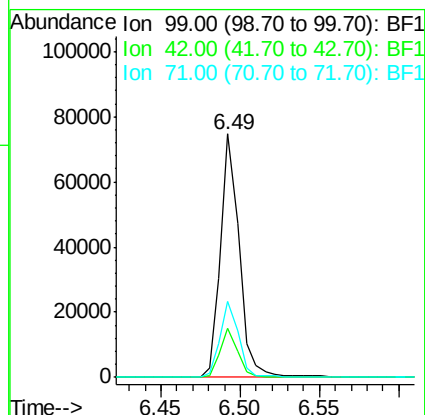
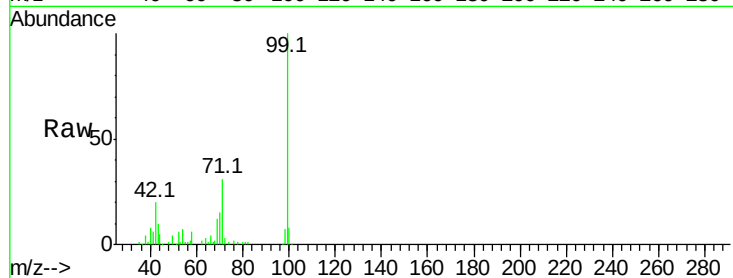
ClientSampleId :

G-28-2-1.5-3

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 61606 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 20.0  | 14.5  | 21.7  |
| 71        | 31.1  | 25.4  | 38.0  |

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#21

Naphthalene-d8

Concen: 20.000 ng

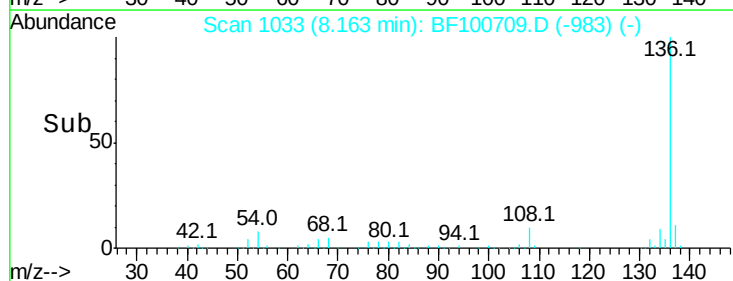
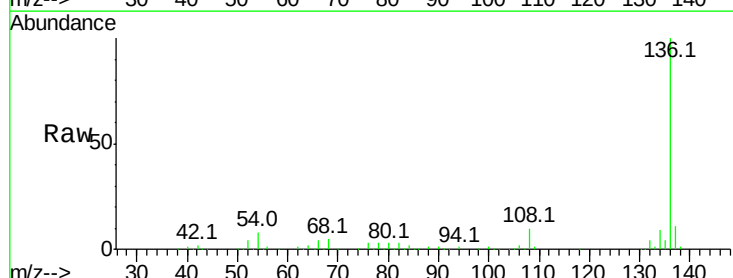
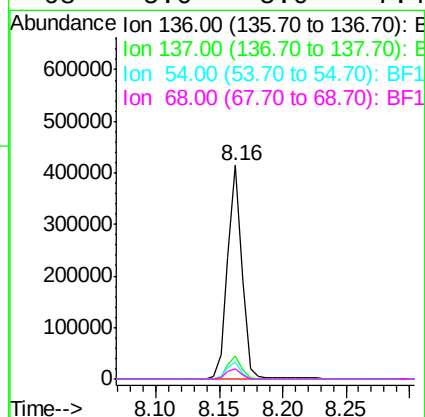
RT: 8.16 min Scan# 1033

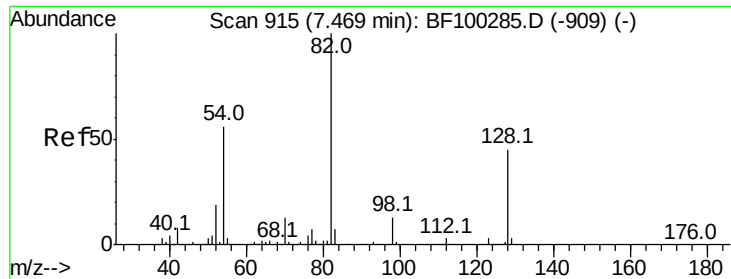
Delta R.T. -0.01 min

Lab File: BF100709.D

Acq: 18 Nov 2017 9:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 329832 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.8  | 8.9   | 13.3   |
| 54        | 7.8   | 6.6   | 9.8    |
| 68        | 5.0   | 5.0   | 7.4    |





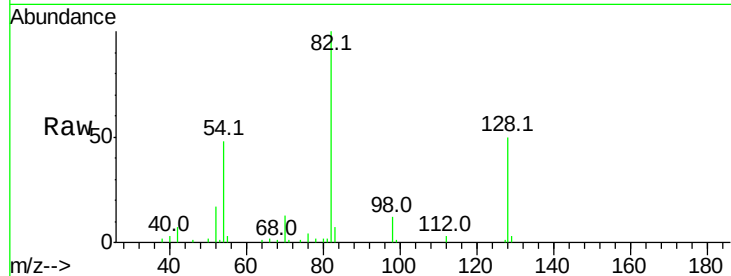
#23  
Nitrobenzene-d5  
Concen: 7.048 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.01 min  
Lab File: BF100709.D  
Acq: 18 Nov 2017 9:04

Instrument :  
BNA\_F  
ClientSampled :  
G-28-2-1.5-3

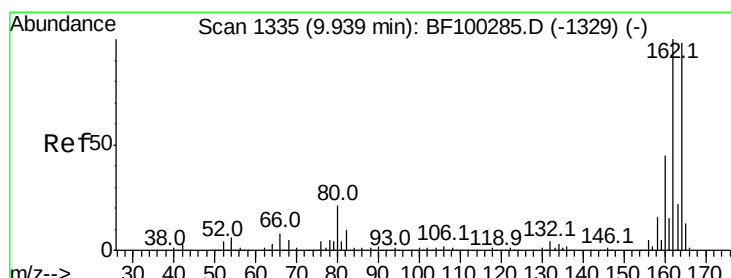
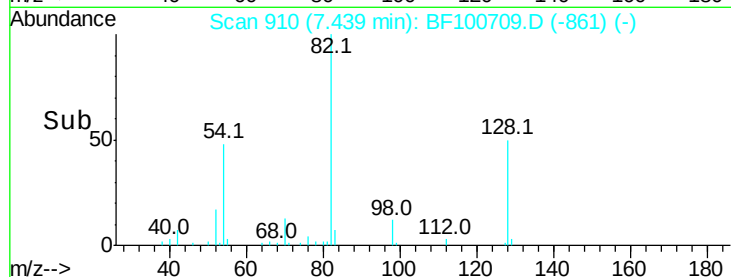
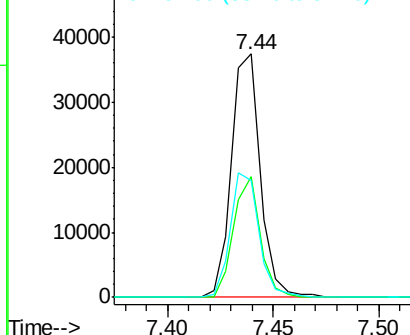
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 49.5  | 36.1  | 54.1  |
| 54      | 47.8  | 41.4  | 62.2  |

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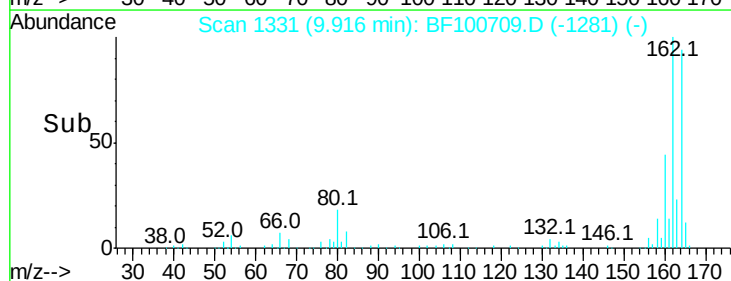
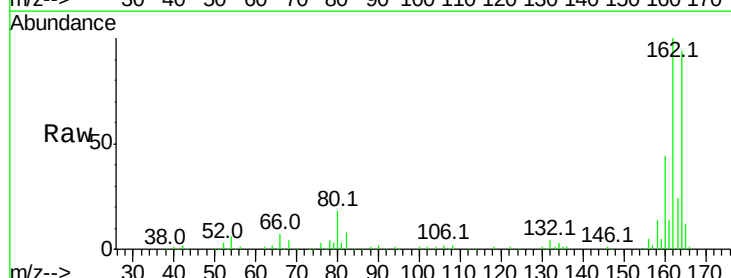
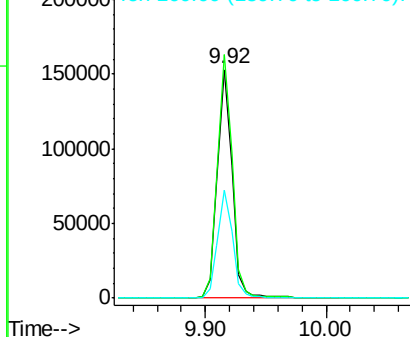
Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

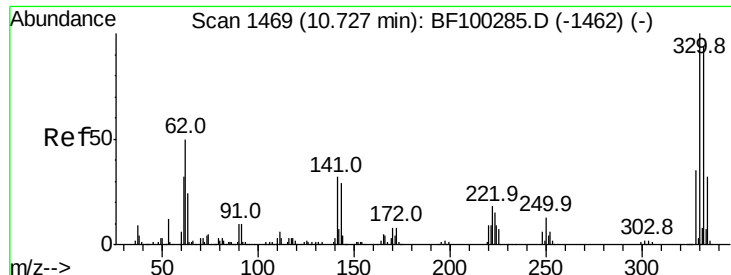


#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.92 min Scan# 1331  
Delta R.T. -0.01 min  
Lab File: BF100709.D  
Acq: 18 Nov 2017 9:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 106.4 | 86.1  | 129.1 |
| 160     | 47.1  | 38.3  | 57.5  |

Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E





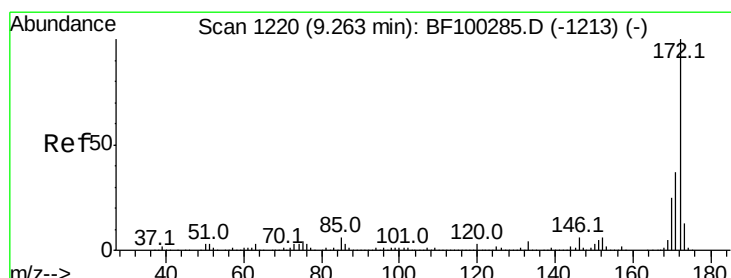
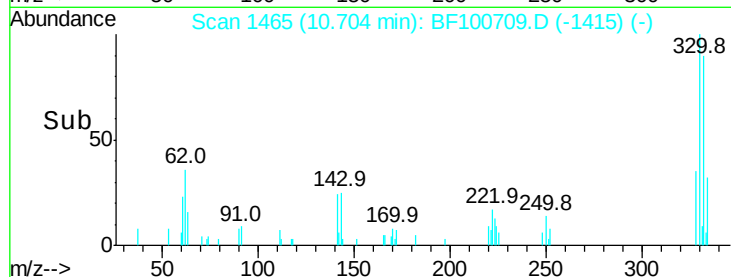
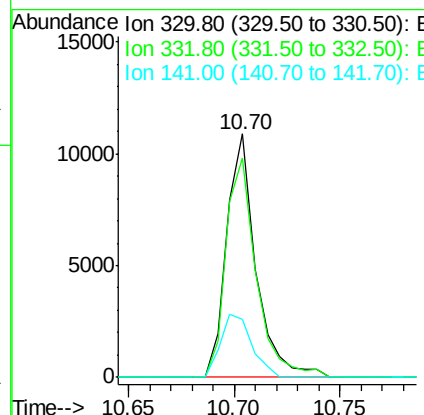
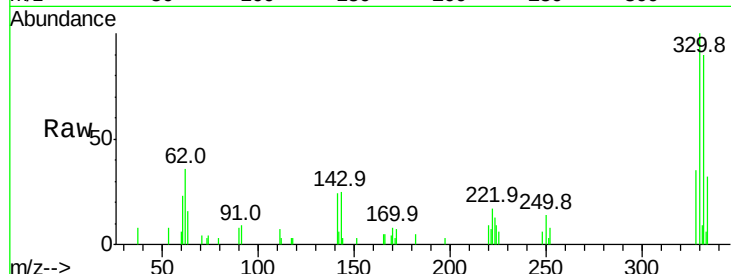
#41  
 2,4,6-Tribromophenol  
 Concen: 7.947 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.01 min  
 Lab File: BF100709.D  
 Acq: 18 Nov 2017 9:04

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-28-2-1.5-3

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 93.9  | 77.0 | 115.6 |       |
| 141     | 27.5  | 29.9 | 44.9  |       |

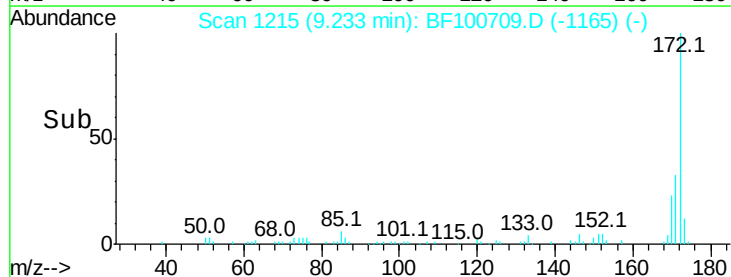
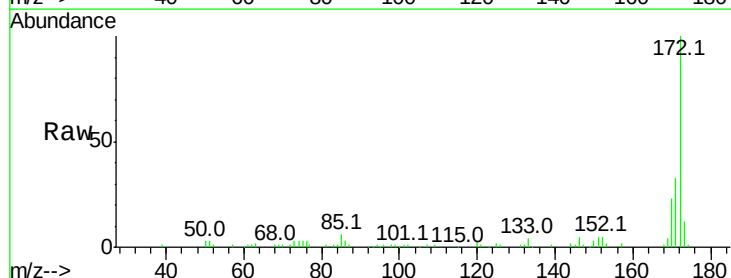
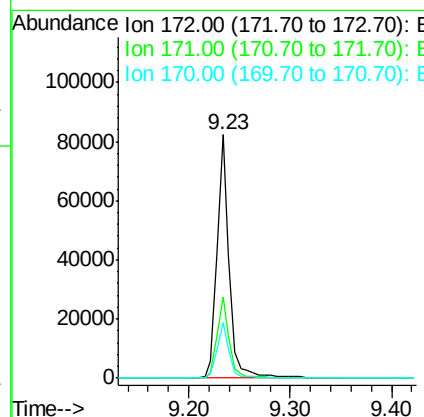
Manual Integrations  
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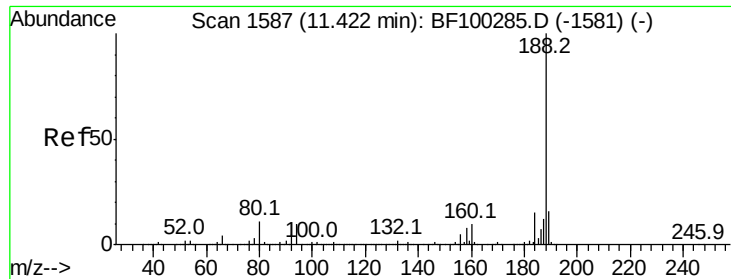
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#44  
 2-Fluorobiphenyl  
 Concen: 8.175 ng  
 RT: 9.23 min Scan# 1215  
 Delta R.T. -0.01 min  
 Lab File: BF100709.D  
 Acq: 18 Nov 2017 9:04

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 33.5  | 29.7 | 44.5  |       |
| 170     | 22.8  | 19.6 | 29.4  |       |





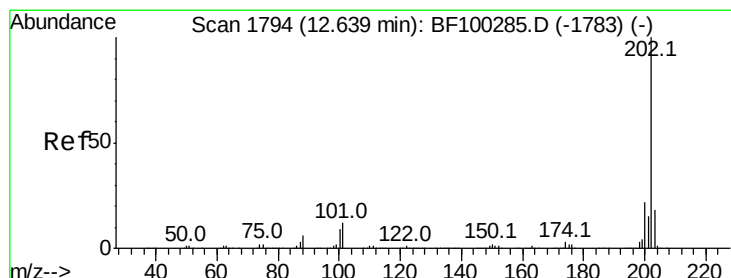
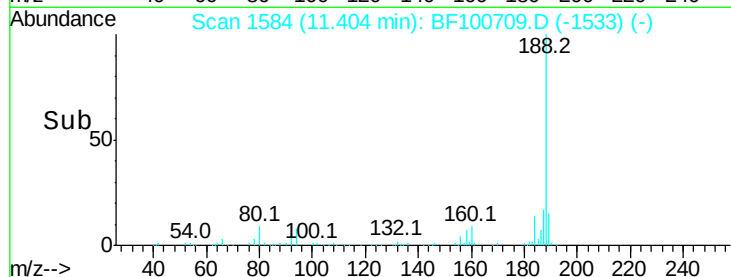
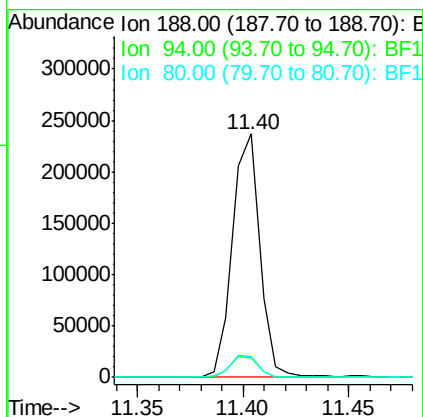
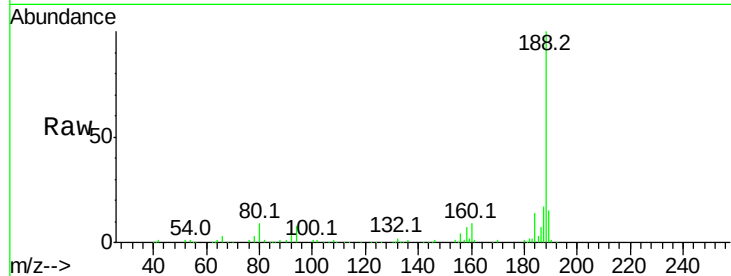
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.40 min Scan# 1584  
Delta R.T. -0.00 min  
Lab File: BF100709.D  
Acq: 18 Nov 2017 9:04

Instrument :  
BNA\_F  
ClientSampleId :  
G-28-2-1.5-3

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 8.2   | 8.5        | 12.7# |
| 80      | 8.6   | 9.2        | 13.8# |

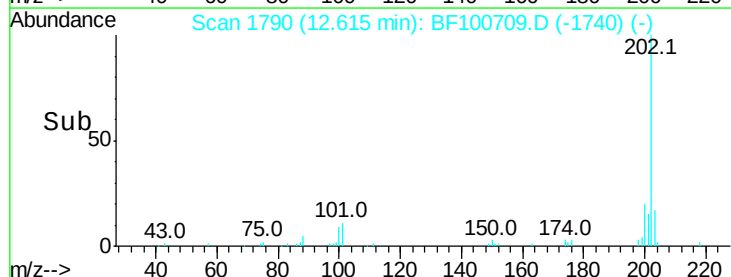
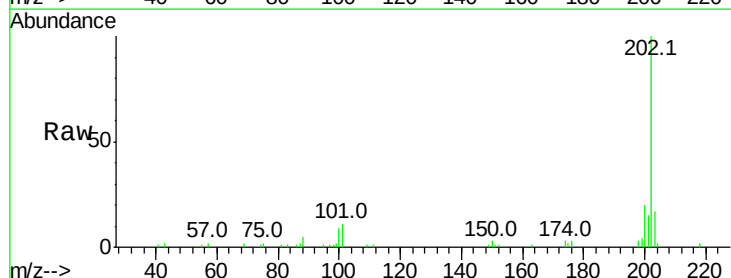
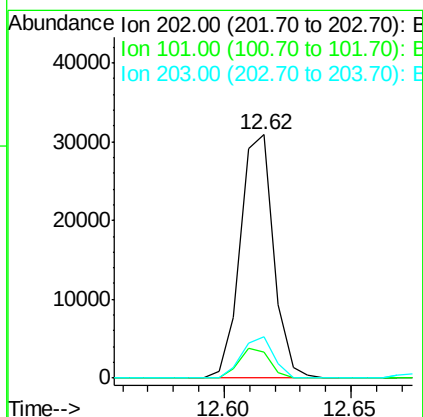
Manual Integrations  
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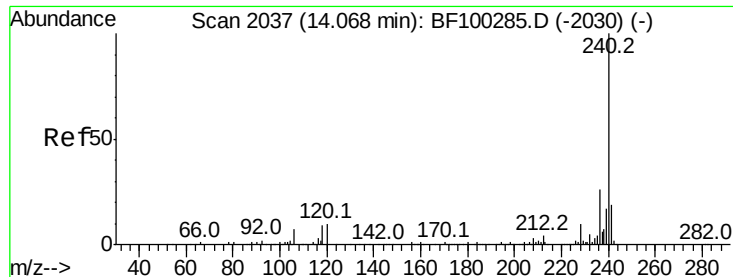
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#74  
Fluoranthene  
Concen: 2.374 ng  
RT: 12.62 min Scan# 1790  
Delta R.T. -0.01 min  
Lab File: BF100709.D  
Acq: 18 Nov 2017 9:04

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.5  | 0.0        | 34.1  |
| 203     | 16.7  | 0.0        | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2032

Delta R.T. -0.01 min

Lab File: BF100709.D

Acq: 18 Nov 2017 9:04

Instrument :

BNA\_F

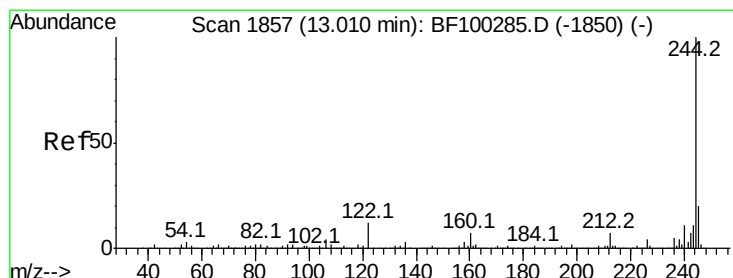
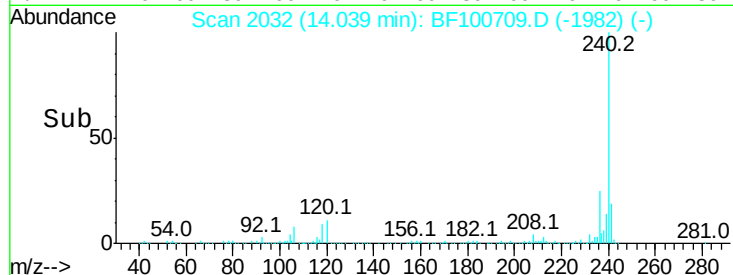
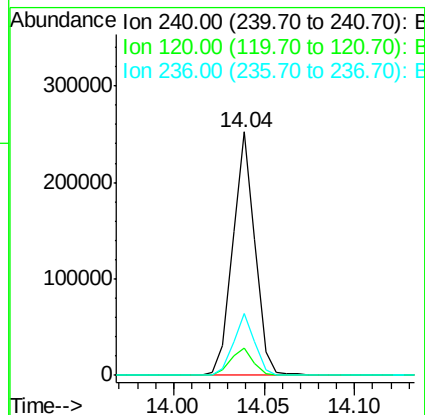
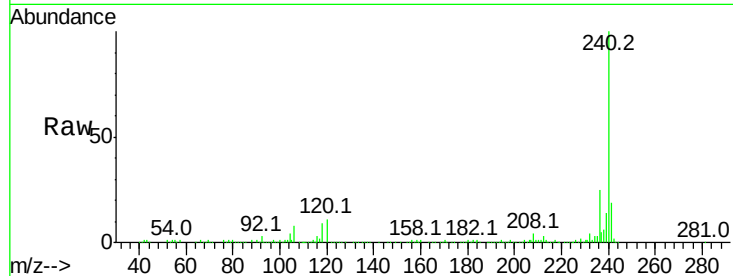
ClientSampleId :

G-28-2-1.5-3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 215058 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 11.0  | 9.5   | 14.3   |
| 236       | 25.2  | 20.7  | 31.1   |

Manual Integrations  
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#78

Terphenyl-d14

Concen: 5.579 ng

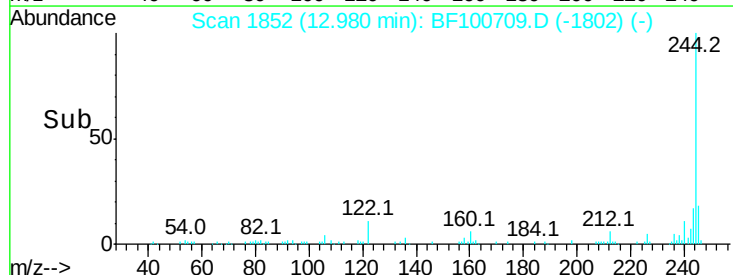
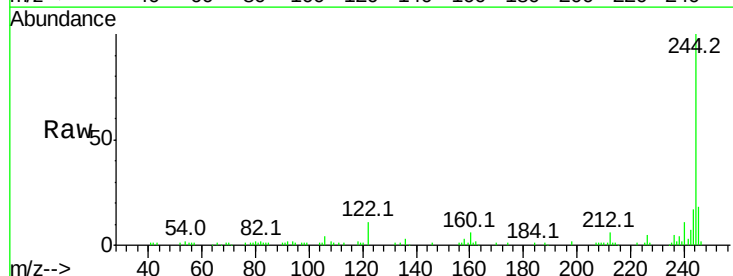
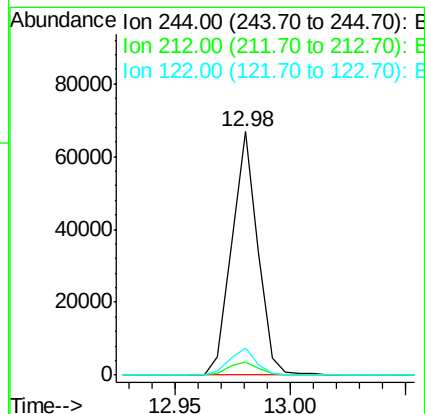
RT: 12.98 min Scan# 1852

Delta R.T. -0.01 min

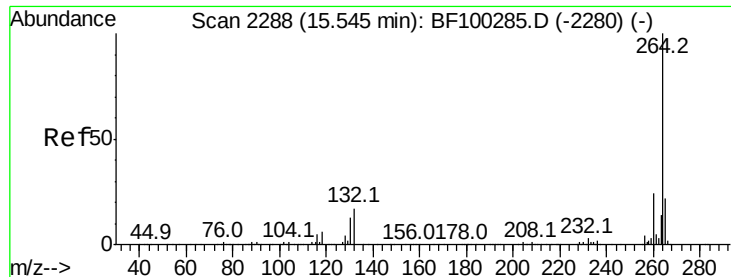
Lab File: BF100709.D

Acq: 18 Nov 2017 9:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 52213 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 5.6   | 5.4   | 8.0   |
| 122       | 11.2  | 11.0  | 16.4  |







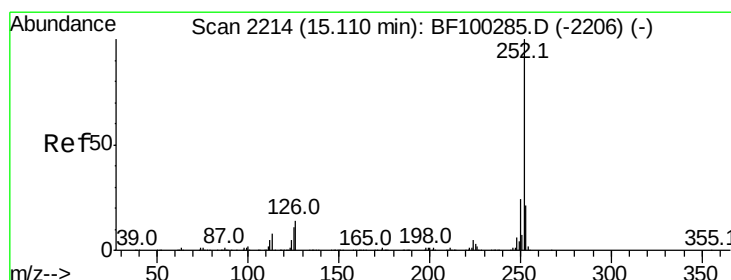
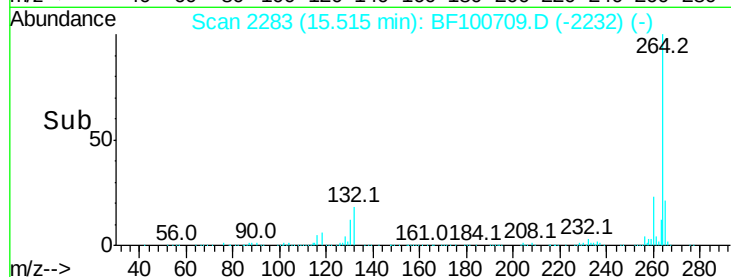
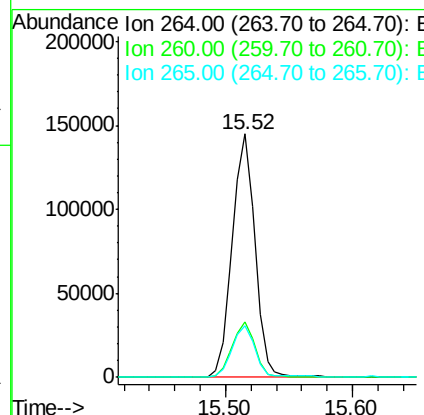
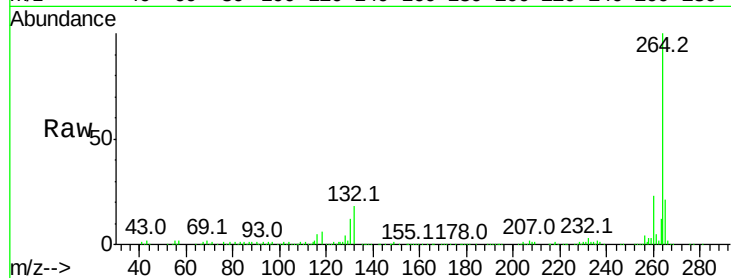
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.52 min Scan# 2283  
Delta R.T. -0.00 min  
Lab File: BF100709.D  
Acq: 18 Nov 2017 9:04

Instrument :  
BNA\_F  
ClientSampleId :  
G-28-2-1.5-3

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 264     | 100   |            |       |
| 260     | 23.0  | 19.2       | 28.8  |
| 265     | 21.0  | 17.5       | 26.3  |

Manual Integrations  
APPROVED

SOHIL  
11/20/2017 2:51:32 PM



#87  
Benzo(b)fluoranthene  
Concen: 2.091 ng m  
RT: 15.08 min Scan# 2209  
Delta R.T. -0.01 min  
Lab File: BF100709.D  
Acq: 18 Nov 2017 9:04

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 26.0  | 17.0       | 25.6# |
| 125     | 16.7  | 9.0        | 13.6# |

