

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122917\  
 Data File : BF101824.D  
 Acq On : 29 Dec 2017 13:00  
 Operator : SJ/JU  
 Sample : I7034-15 10X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 29 13:45:52 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 29 13:21:45 2017  
 Response via : Initial Calibration

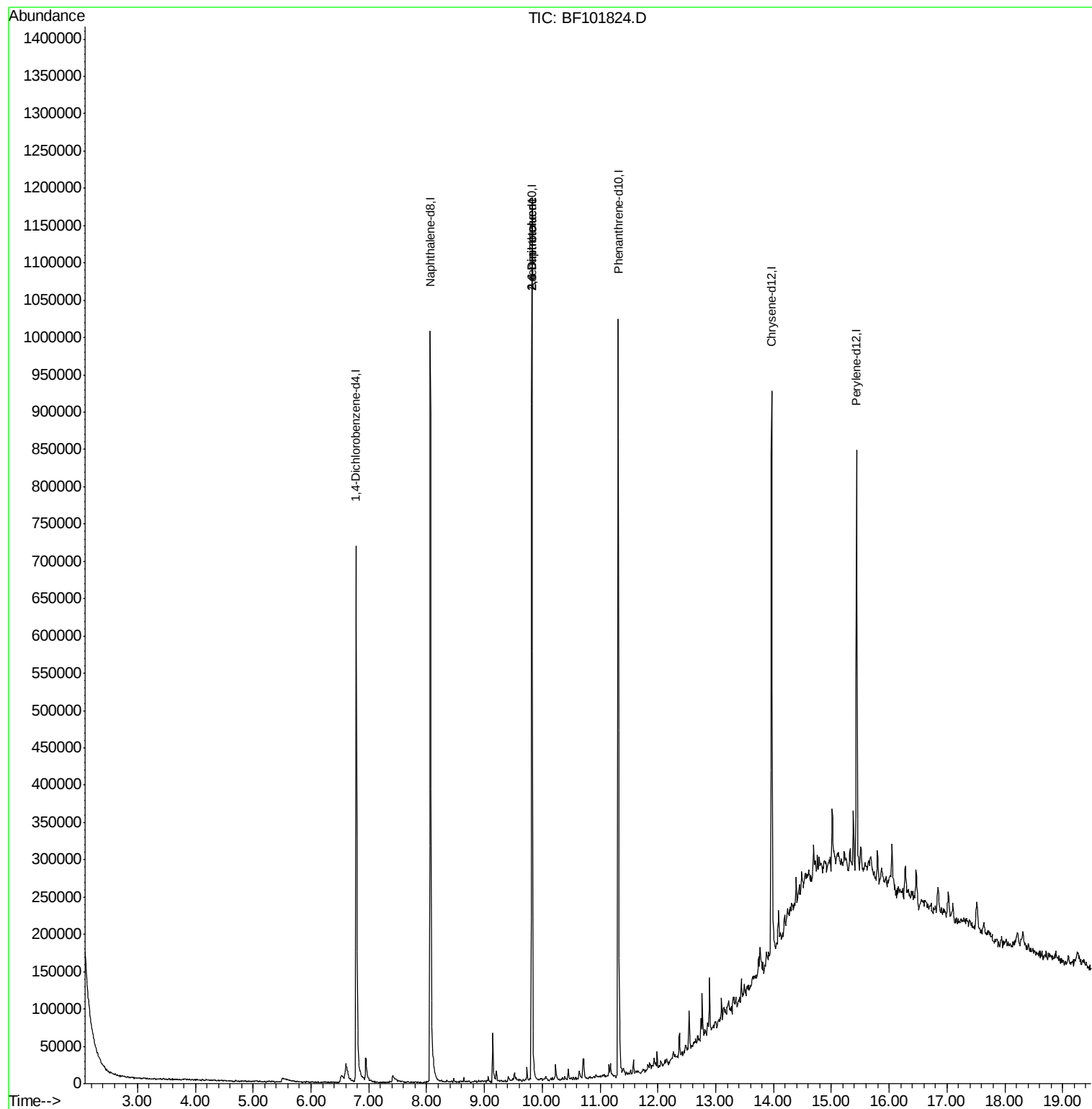
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.78  | 152  | 147541   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.06  | 136  | 583842   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.82  | 164  | 241917   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.32 | 188  | 399059   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 13.97 | 240  | 282679   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.44 | 264  | 292511   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.51  | 112  | 2941     | 0.30  | ng    | 0.11     |
| 7) Phenol-d6                | 6.53  | 99   | 10390    | 0.84  | ng    | 0.10     |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 12512    | 1.19  | ng    | 0.05     |
| 41) 2,4,6-Tribromophenol    | 10.64 | 330  | 2445     | 1.05  | ng    | 0.02     |
| 44) 2-Fluorobiphenyl        | 9.15  | 172  | 30185    | 1.94  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.89 | 244  | 20789    | 1.77  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 50) 2,6-Dinitrotoluene      | 9.82  | 165  | 30337    | 7.671 | ng    | # 26     |
| 56) 2,4-Dinitrotoluene      | 9.82  | 165  | 30337    | 6.808 | ng    | # 24     |

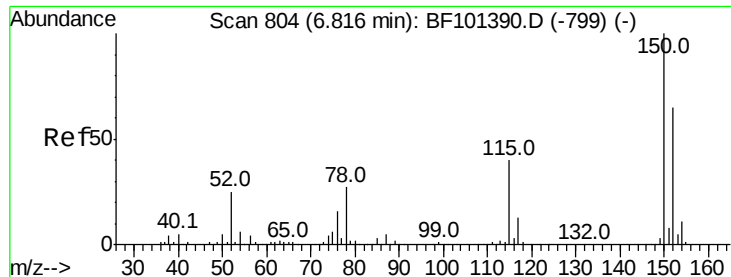
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122917\  
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Acq On : 29 Dec 2017 13:00  
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Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Dec 29 13:45:52 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 29 13:21:45 2017  
Response via : Initial Calibration



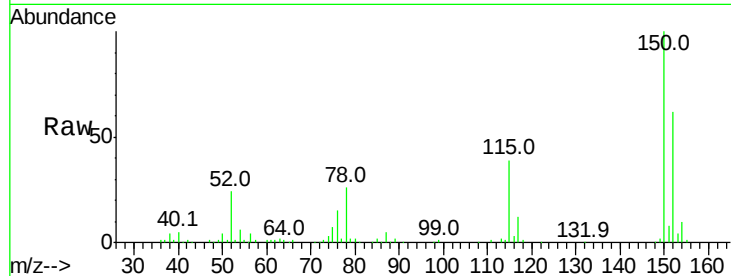


#1

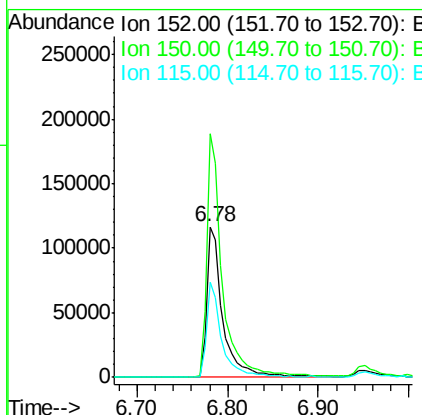
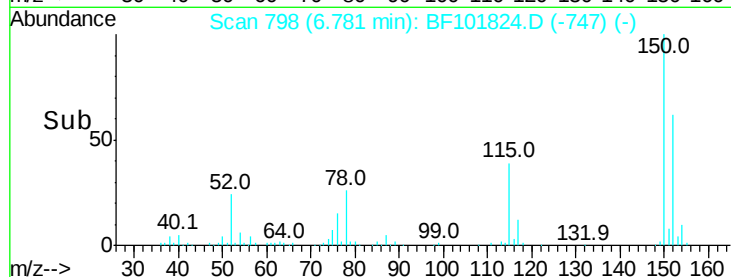
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.78 min Scan# 798  
Delta R.T. -0.00 min  
Lab File: BF101824.D  
Acq: 29 Dec 2017 13:00

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 147541  
Ion Ratio Lower Upper  
152 100  
150 161.9 124.6 186.8  
115 63.1 50.1 75.1



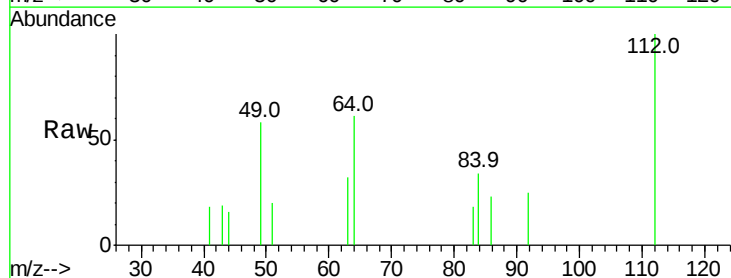
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



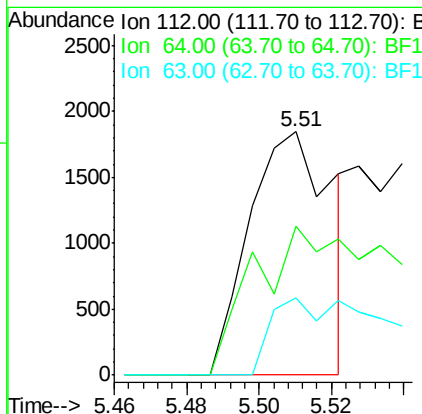
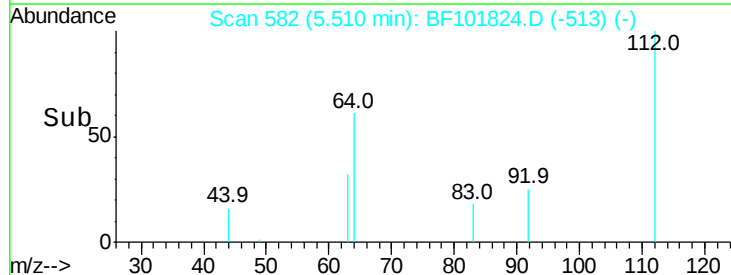
#5

2-Fluorophenol  
Concen: 0.297 ng  
RT: 5.51 min Scan# 582  
Delta R.T. 0.11 min  
Lab File: BF101824.D  
Acq: 29 Dec 2017 13:00

Tgt Ion:112 Resp: 2941  
Ion Ratio Lower Upper  
112 100  
64 61.1 47.9 71.9  
63 31.5 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: 0.843 ng

RT: 6.53 min Scan# 756

Delta R.T. 0.10 min

Lab File: BF101824.D

Acq: 29 Dec 2017 13:00

Instrument :

BNA\_F

ClientSampleId :

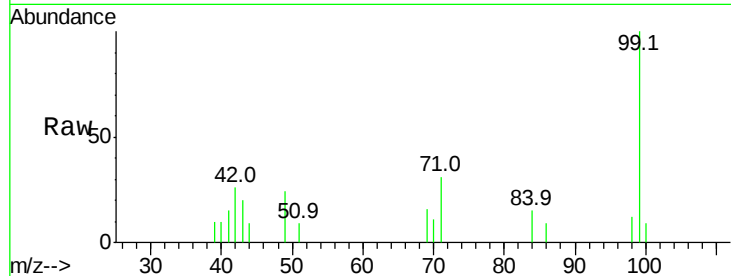
Tot Ion: 99 Resp: 10390

Ion Ratio Lower Upper

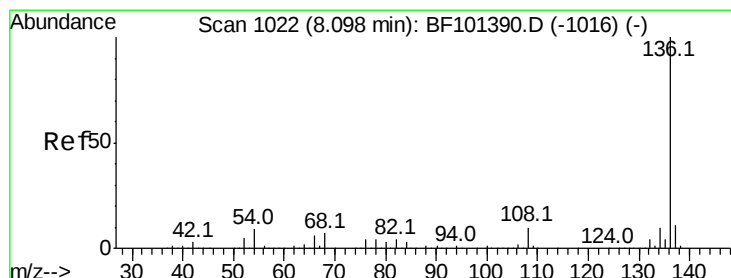
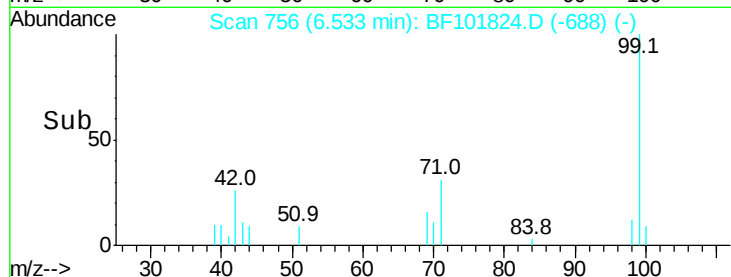
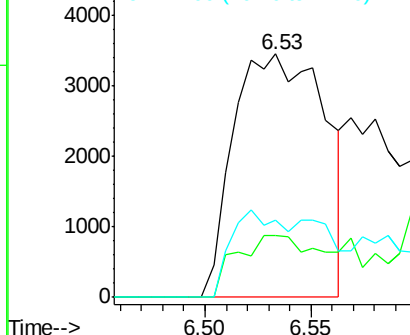
99 100

42 25.6 14.5 21.7#

71 31.5 25.4 38.0



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1016

Delta R.T. -0.01 min

Lab File: BF101824.D

Acq: 29 Dec 2017 13:00

Tgt Ion: 136 Resp: 583842

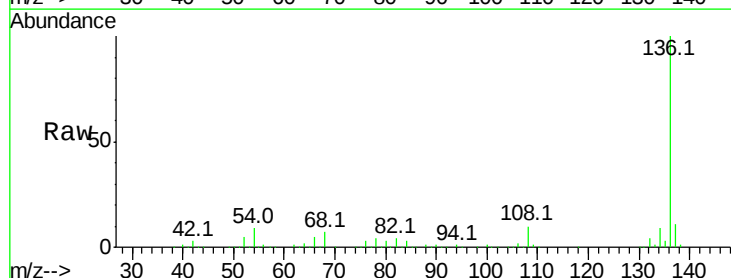
Ion Ratio Lower Upper

136 100

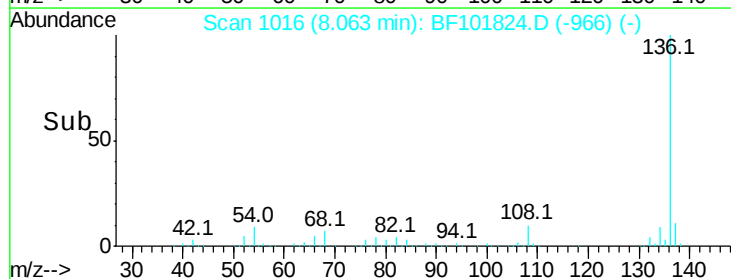
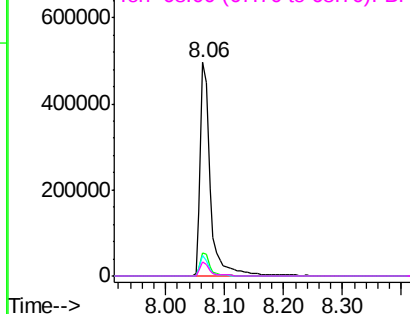
137 11.1 8.9 13.3

54 9.4 6.6 9.8

68 6.8 5.0 7.4



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

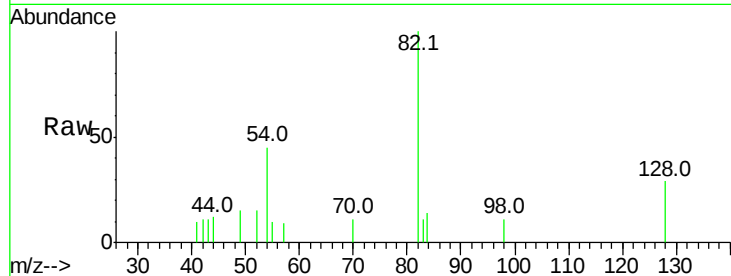




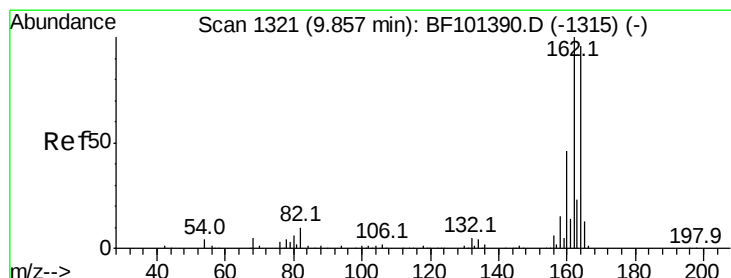
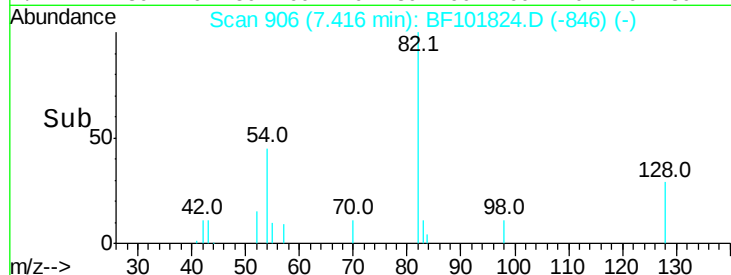
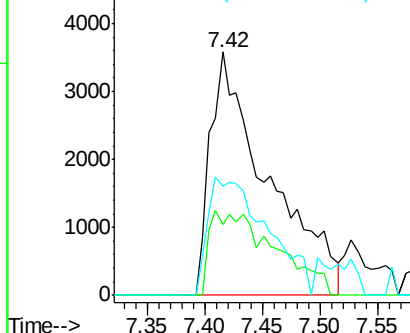
#23  
Nitrobenzene-d5  
Concen: 1.193 ng  
RT: 7.42 min Scan# 906  
Delta R.T. 0.05 min  
Lab File: BF101824.D  
Acq: 29 Dec 2017 13:00

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion: 82 Resp: 12512  
Ion Ratio Lower Upper  
82 100  
128 29.1 36.1 54.1#  
54 45.1 41.4 62.2

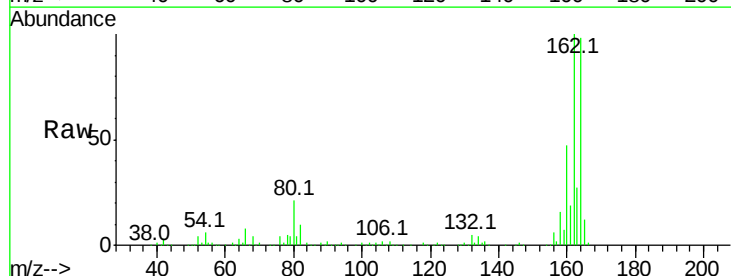


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

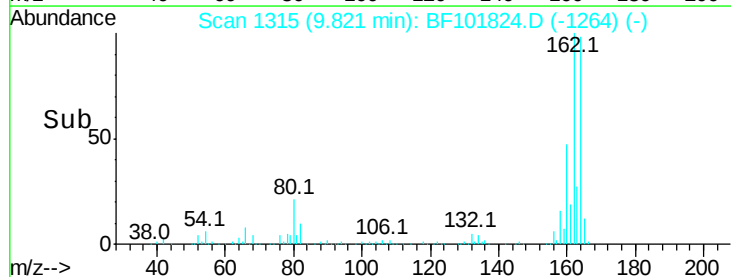
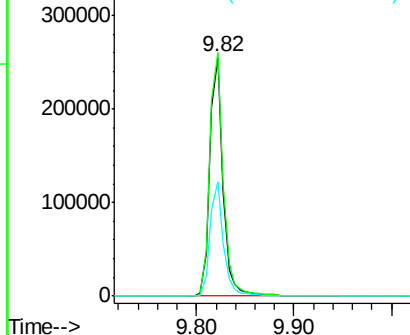


#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.82 min Scan# 1315  
Delta R.T. -0.00 min  
Lab File: BF101824.D  
Acq: 29 Dec 2017 13:00

Tgt Ion:164 Resp: 241917  
Ion Ratio Lower Upper  
164 100  
162 101.8 86.1 129.1  
160 47.8 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

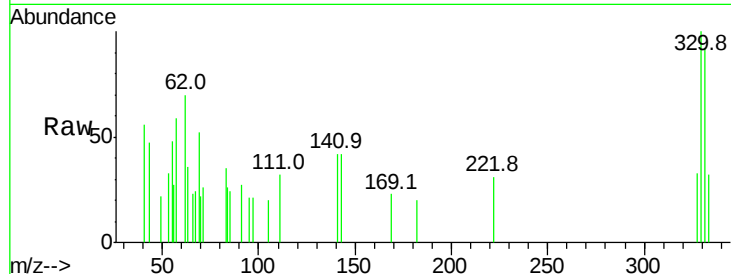




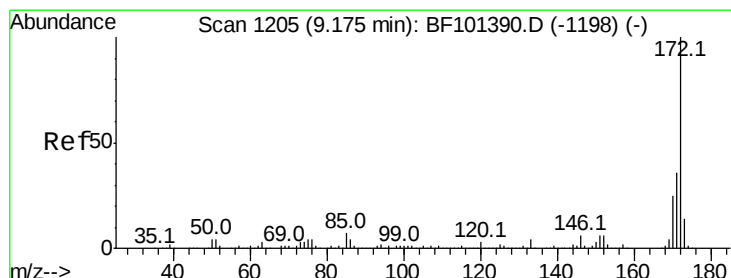
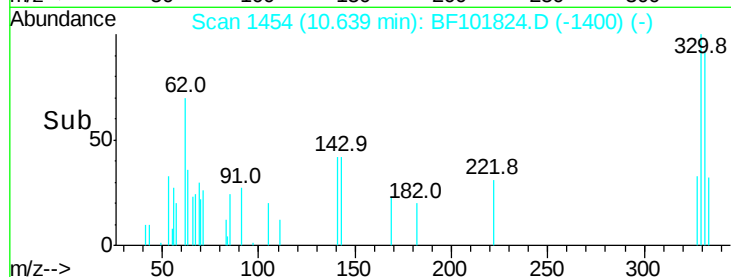
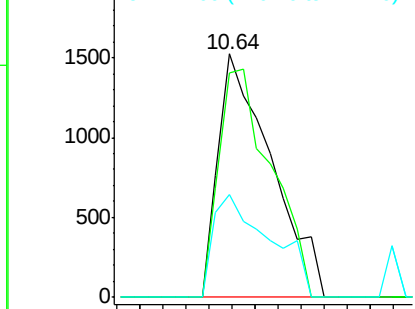
#41  
 2,4,6-Tribromophenol  
 Concen: 1.049 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. 0.02 min  
 Lab File: BF101824.D  
 Acq: 29 Dec 2017 13:00

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 2445  
 Ion Ratio Lower Upper  
 330 100  
 332 92.4 77.0 115.6  
 141 44.6 29.9 44.9

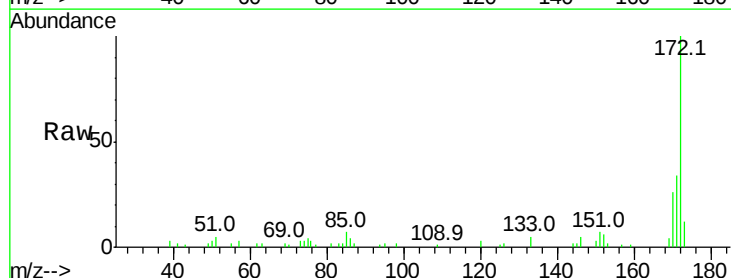


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

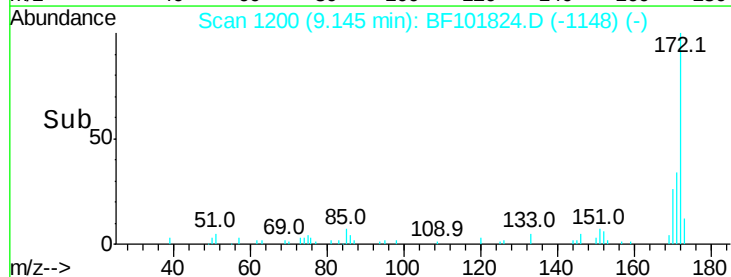
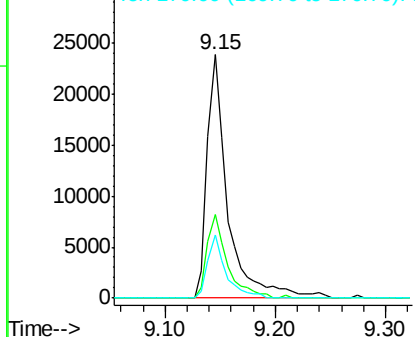


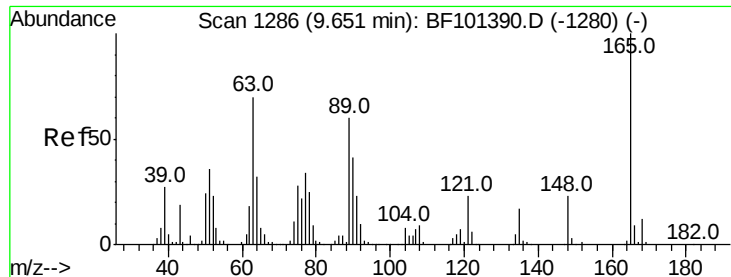
#44  
 2-Fluorobiphenyl  
 Concen: 1.936 ng  
 RT: 9.15 min Scan# 1200  
 Delta R.T. 0.01 min  
 Lab File: BF101824.D  
 Acq: 29 Dec 2017 13:00

Tgt Ion:172 Resp: 30185  
 Ion Ratio Lower Upper  
 172 100  
 171 34.3 29.7 44.5  
 170 26.0 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

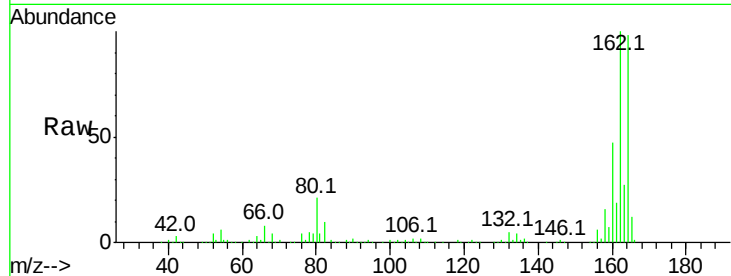




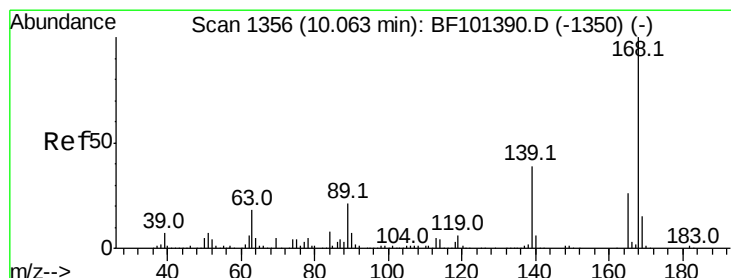
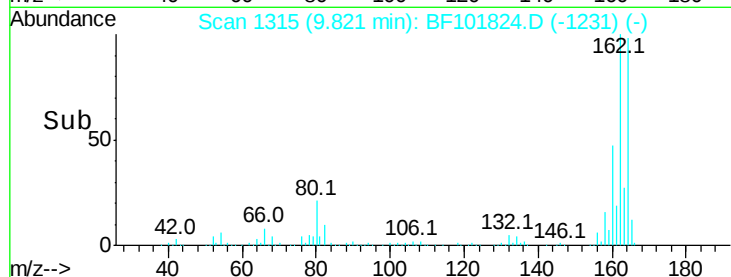
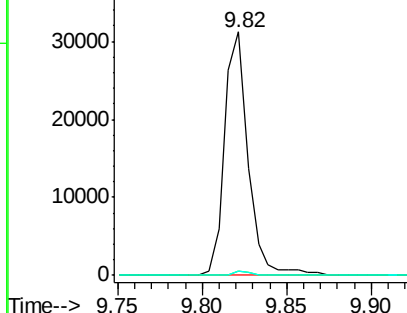
#50  
2,6-Dinitrotoluene  
Concen: 7.671 ng  
RT: 9.82 min Scan# 1315  
Delta R.T. 0.19 min  
Lab File: BF101824.D  
Acq: 29 Dec 2017 13:00

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 44.7  | 67.1# |
| 89      | 2.0   | 44.0  | 66.0# |



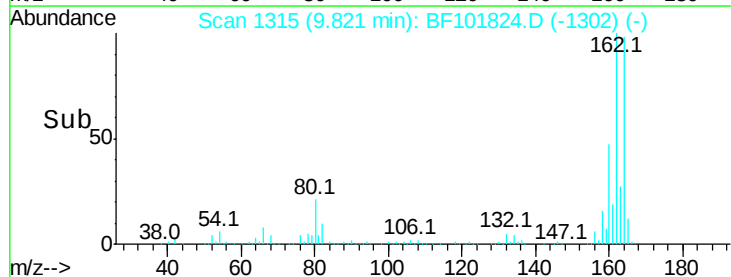
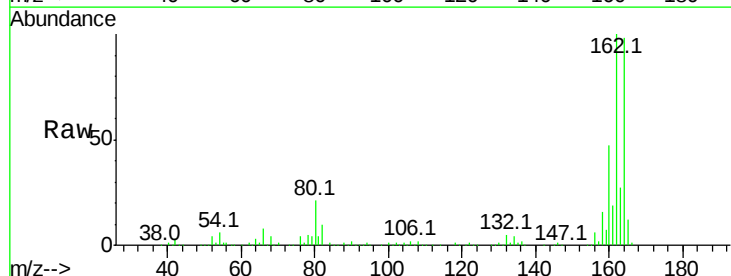
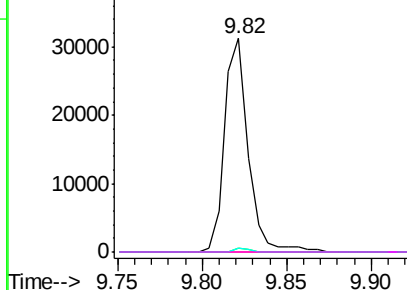
Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1

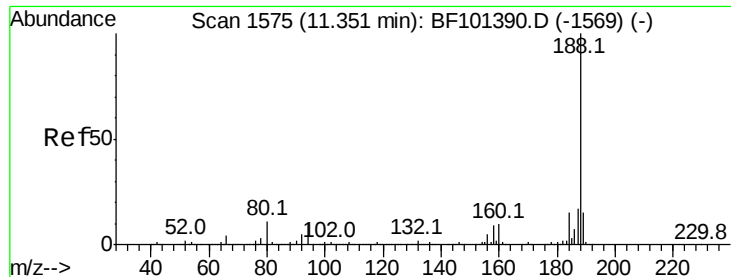


#56  
2,4-Dinitrotoluene  
Concen: 6.808 ng  
RT: 9.82 min Scan# 1315  
Delta R.T. -0.22 min  
Lab File: BF101824.D  
Acq: 29 Dec 2017 13:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 36.4  | 54.6# |
| 89      | 2.0   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E

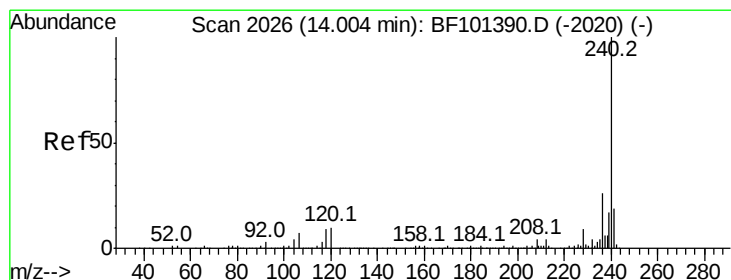
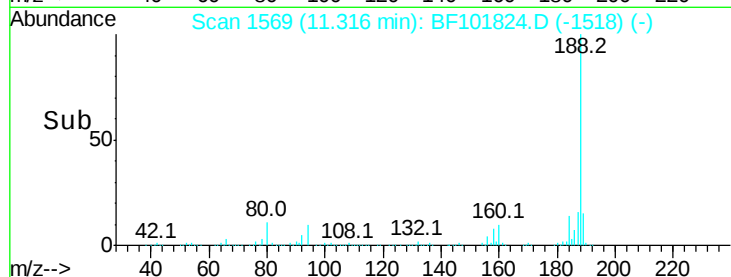
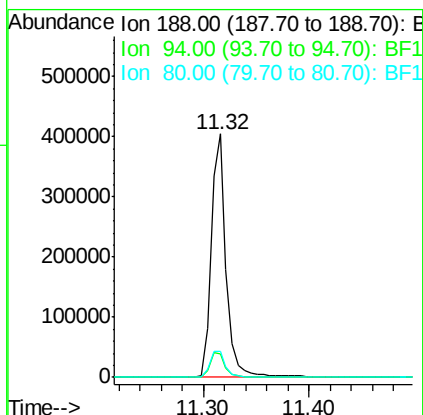
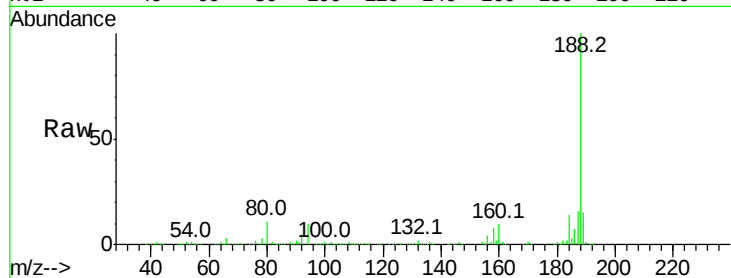




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1569  
Delta R.T. -0.00 min  
Lab File: BF101824.D  
Acq: 29 Dec 2017 13:00

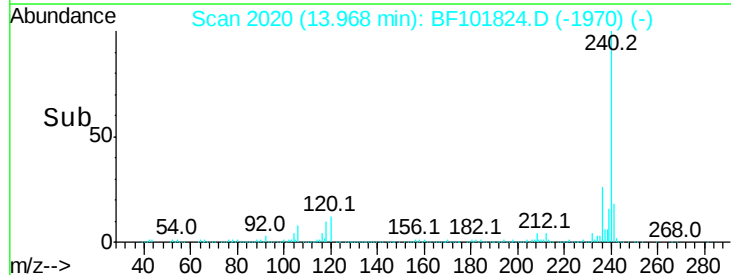
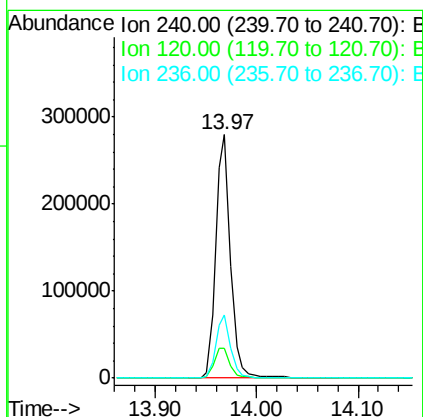
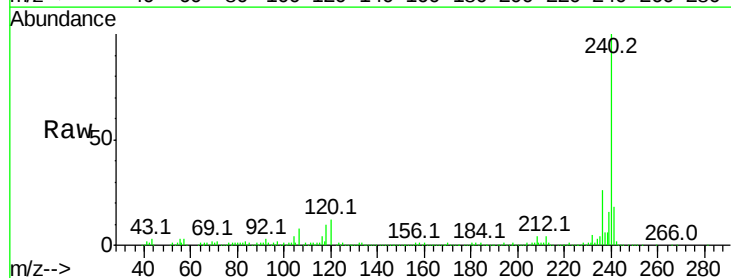
Instrument :  
BNA\_F  
ClientSampleId :

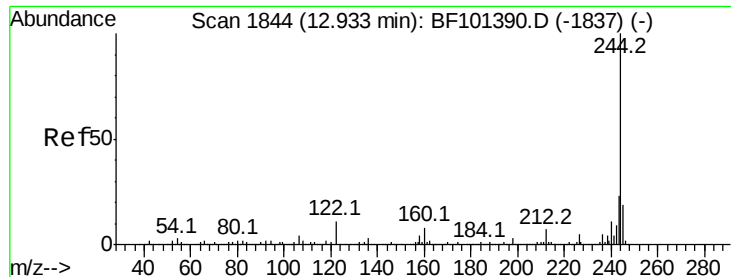
Tot Ion:188 Resp: 399059  
Ion Ratio Lower Upper  
188 100  
94 9.8 8.5 12.7  
80 10.6 9.2 13.8



#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.97 min Scan# 2020  
Delta R.T. -0.01 min  
Lab File: BF101824.D  
Acq: 29 Dec 2017 13:00

Tgt Ion:240 Resp: 282679  
Ion Ratio Lower Upper  
240 100  
120 12.2 9.5 14.3  
236 26.1 20.7 31.1





#78

Terphenyl-d14

Concen: 1.773 ng

RT: 12.89 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BF101824.D

Acq: 29 Dec 2017 13:00

Instrument :

BNA\_F

ClientSampleId :

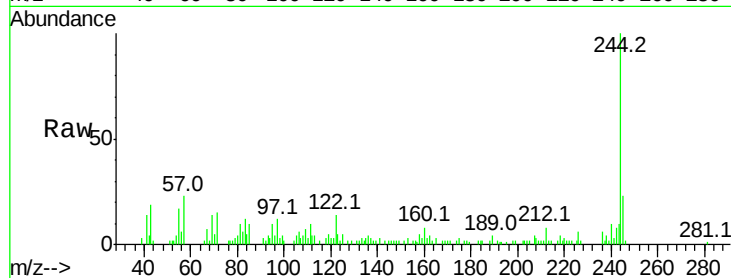
Tot Ion:244 Resp: 20789

Ion Ratio Lower Upper

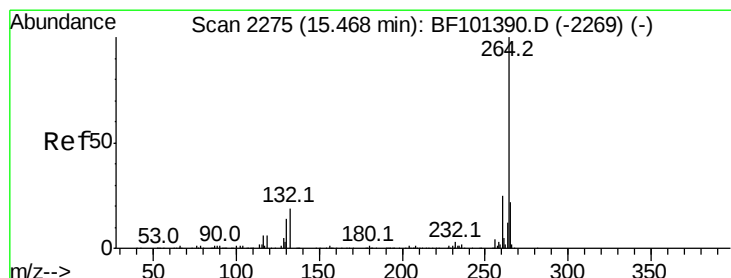
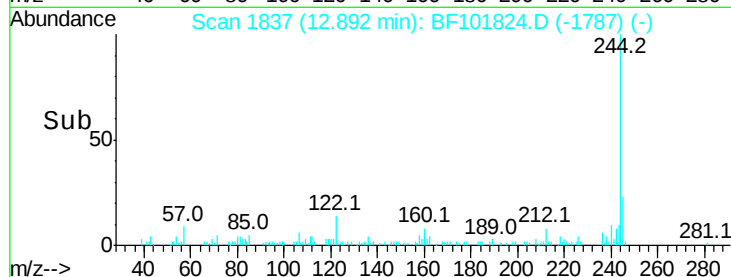
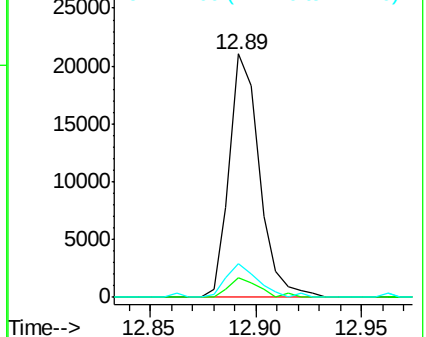
244 100

212 8.1 5.4 8.0#

122 14.0 11.0 16.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.44 min Scan# 2270

Delta R.T. -0.00 min

Lab File: BF101824.D

Acq: 29 Dec 2017 13:00

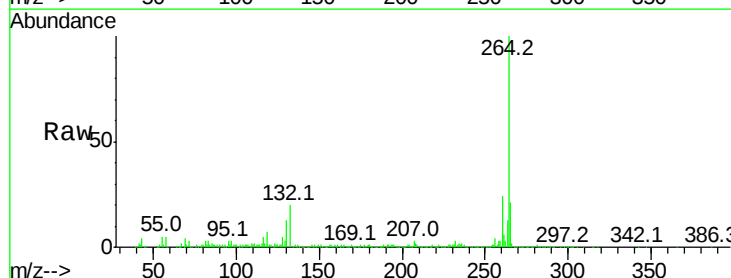
Tgt Ion:264 Resp: 292511

Ion Ratio Lower Upper

264 100

260 24.0 19.2 28.8

265 21.3 17.5 26.3



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

