

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM071118\  
 Data File : BM015906.D  
 Acq On : 12 Jul 2018 09:41  
 Operator : SJ/JU  
 Sample : J3828-06  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-01-071018-C

Quant Time: Jul 12 10:55:36 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM070518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 05 17:39:50 2018  
 Response via : Initial Calibration

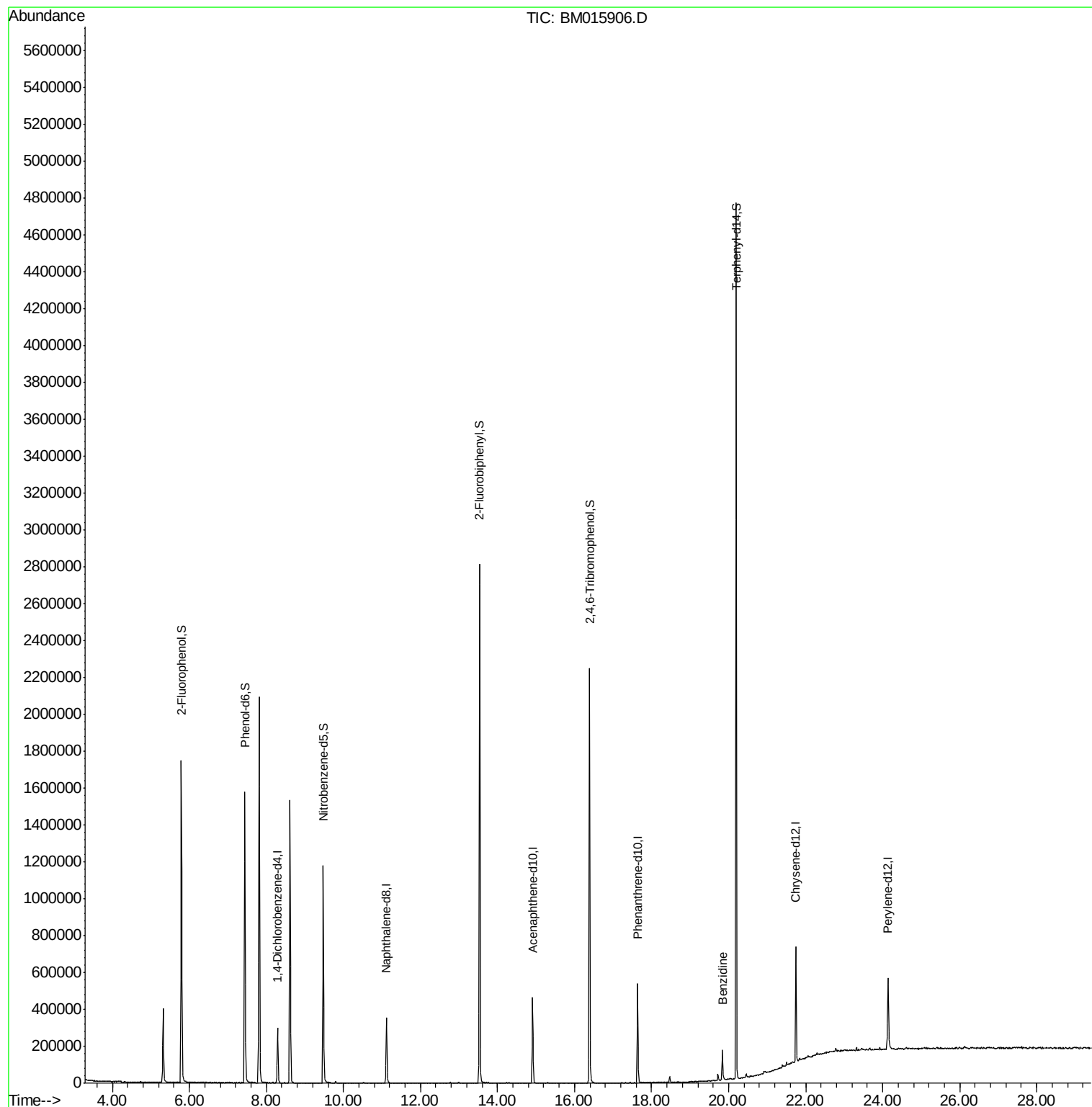
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.29  | 152  | 70029    | 20.00  | ng    | -0.02     |
| 21) Naphthalene-d8          | 11.12 | 136  | 263640   | 20.00  | ng    | -0.03     |
| 38) Acenaphthene-d10        | 14.91 | 164  | 135155   | 20.00  | ng    | -0.02     |
| 63) Phenanthrene-d10        | 17.64 | 188  | 280210   | 20.00  | ng    | -0.02     |
| 75) Chrysene-d12            | 21.74 | 240  | 259599   | 20.00  | ng    | -0.02     |
| 86) Perylene-d12            | 24.14 | 264  | 266162   | 20.00  | ng    | -0.03     |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 5.80  | 112  | 623847   | 152.78 | ng    | -0.02     |
| 7) Phenol-d6                | 7.44  | 99   | 708645   | 126.77 | ng    | -0.02     |
| 23) Nitrobenzene-d5         | 9.47  | 82   | 614578   | 113.74 | ng    | -0.03     |
| 41) 2,4,6-Tribromophenol    | 16.39 | 330  | 287183   | 162.62 | ng    | -0.02     |
| 44) 2-Fluorobiphenyl        | 13.53 | 172  | 1209469  | 111.10 | ng    | -0.03     |
| 78) Terphenyl-d14           | 20.20 | 244  | 1690845  | 120.81 | ng    | -0.02     |
| Target Compounds            |       |      |          |        |       |           |
| 76) Benzidine               | 19.84 | 184  | 87871    | 11.553 | ng    | Qvalue 97 |

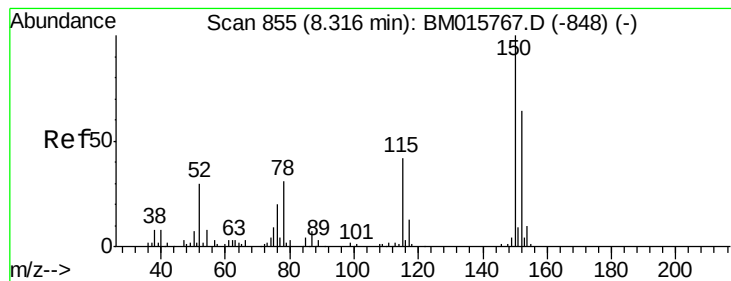
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 12 10:55:36 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM070518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 05 17:39:50 2018  
Response via : Initial Calibration



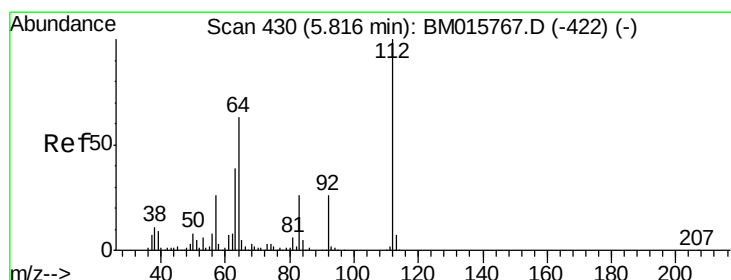
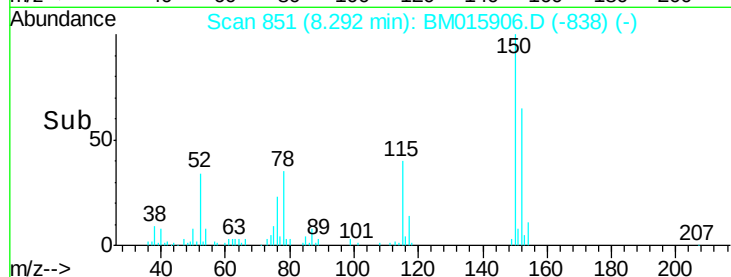
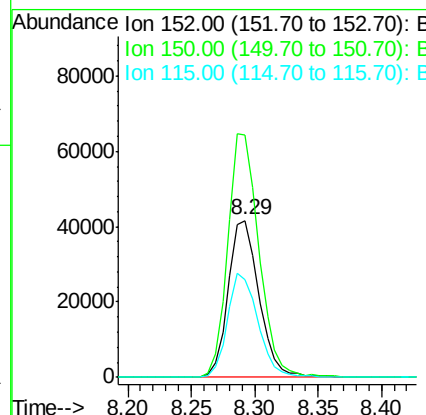
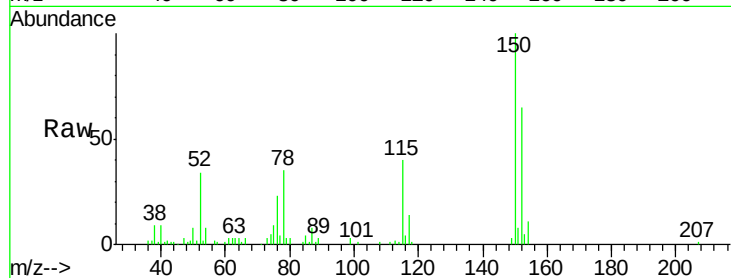


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.29 min Scan# 851  
Delta R.T. -0.02 min  
Lab File: BM015906.D  
Acq: 12 Jul 2018 09:41

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-071018-C

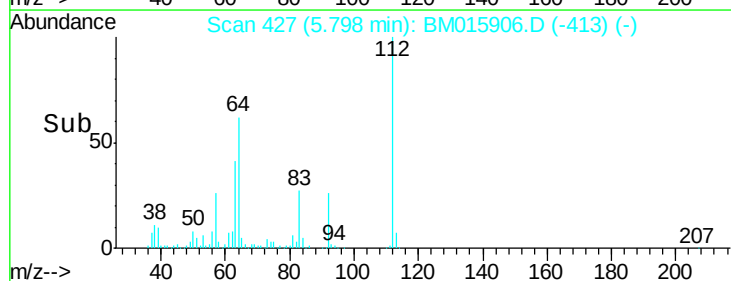
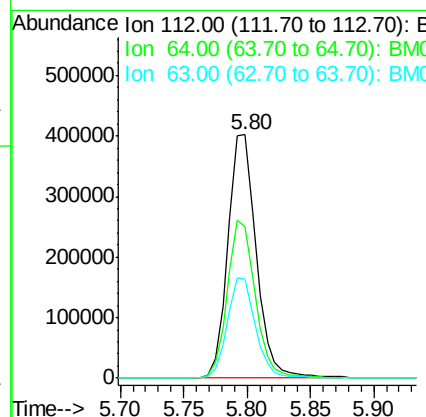
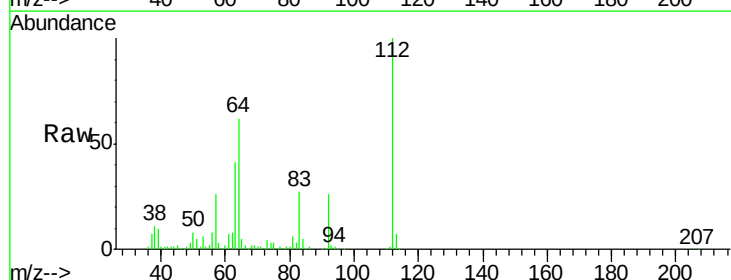
Tgt Ion:152 Resp: 70029  
Ion Ratio Lower Upper  
152 100  
150 154.7 119.5 179.3  
115 62.3 43.0 64.4

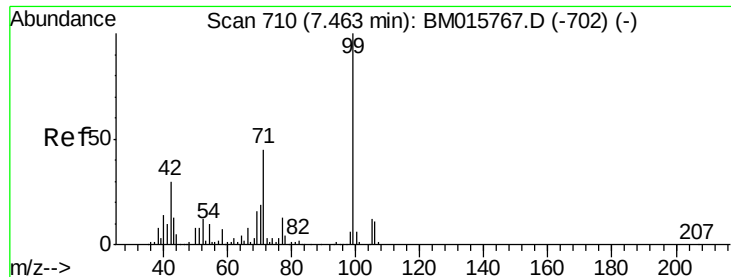


#5

2-Fluorophenol  
Concen: Below ng  
RT: 5.80 min Scan# 427  
Delta R.T. -0.02 min  
Lab File: BM015906.D  
Acq: 12 Jul 2018 09:41

Tgt Ion:112 Resp: 623847  
Ion Ratio Lower Upper  
112 100  
64 62.2 38.6 57.8#  
63 40.7 19.3 28.9#





#7

Phenol-d6

Concen: N.D. ng

RT: 7.44 min Scan# 706

Delta R.T. -0.02 min

Lab File: BM015906.D

Acq: 12 Jul 2018 09:41

Instrument :

BNA\_F

ClientSampleId :

EO-01-071018-C

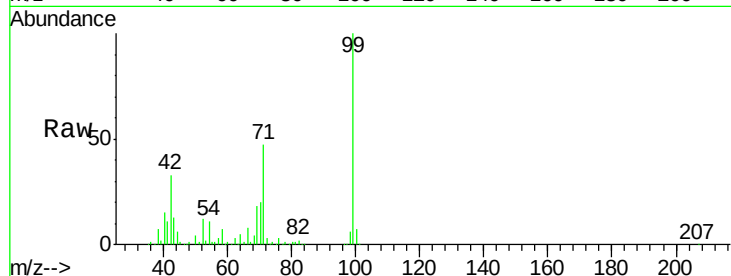
Tgt Ion: 99 Resp: 708645

Ion Ratio Lower Upper

99 100

42 32.7 11.0 16.4#

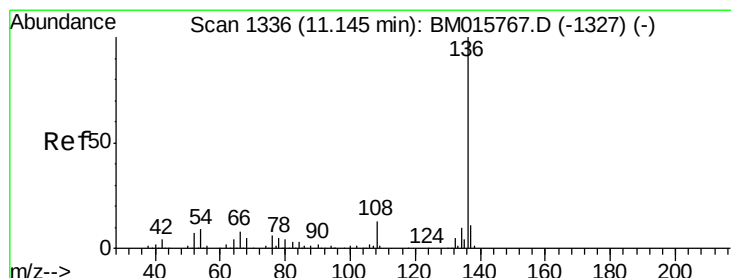
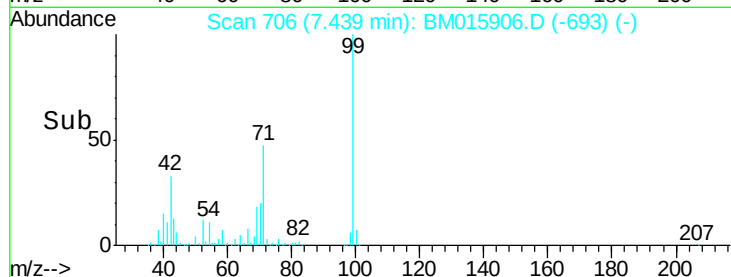
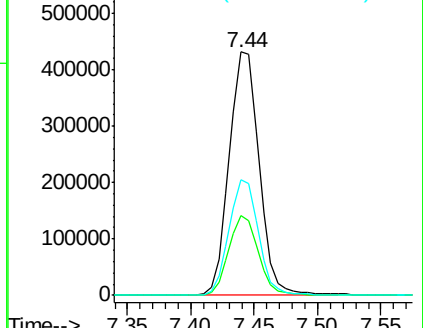
71 47.3 23.4 35.2#



Abundance Ion 99.00 (98.70 to 99.70): BM015767.D (-702) (-)

Ion 42.00 (41.70 to 42.70): BM015767.D (-702) (-)

Ion 71.00 (70.70 to 71.70): BM015767.D (-702) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.12 min Scan# 1331

Delta R.T. -0.03 min

Lab File: BM015906.D

Acq: 12 Jul 2018 09:41

Tgt Ion: 136 Resp: 263640

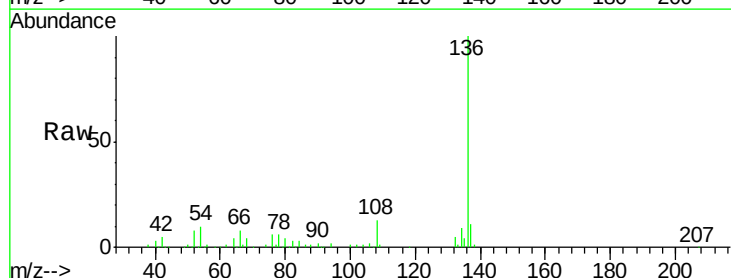
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 9.6 4.6 6.8#

68 4.5 3.7 5.5

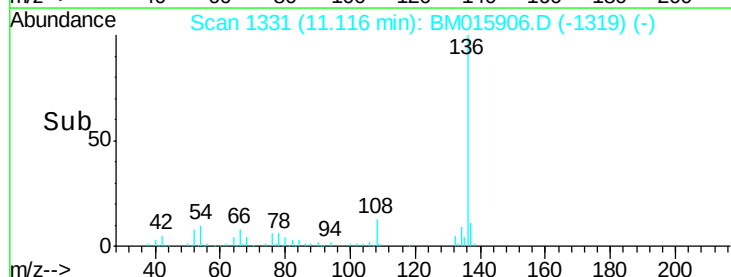
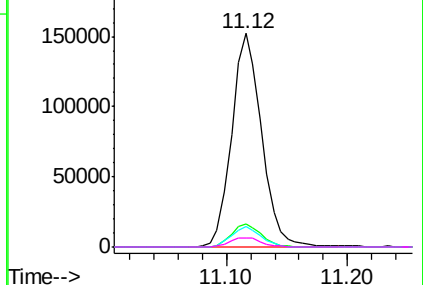


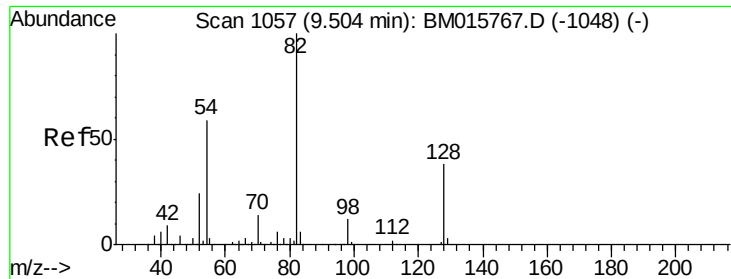
Abundance Ion 136.00 (135.70 to 136.70): BM015767.D (-1327) (-)

Ion 137.00 (136.70 to 137.70): BM015767.D (-1327) (-)

Ion 54.00 (53.70 to 54.70): BM015767.D (-1327) (-)

Ion 68.00 (67.70 to 68.70): BM015767.D (-1327) (-)

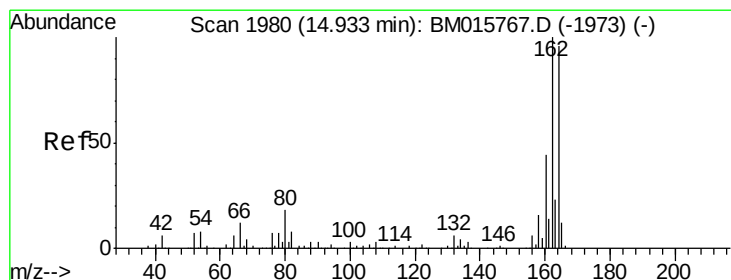
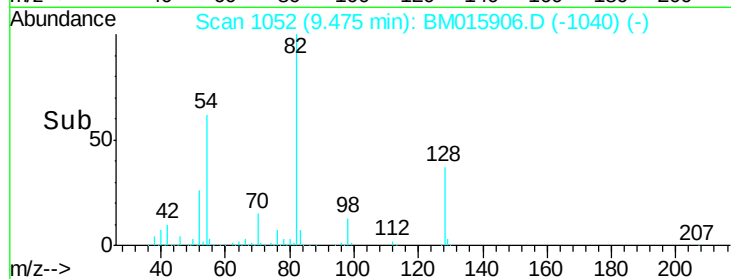
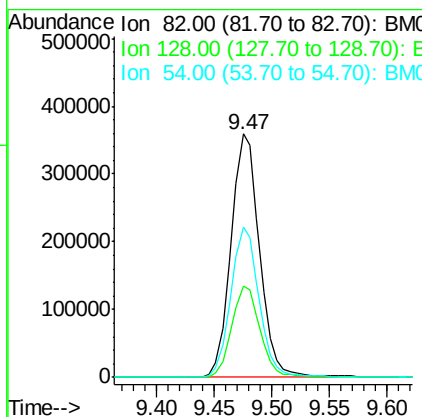
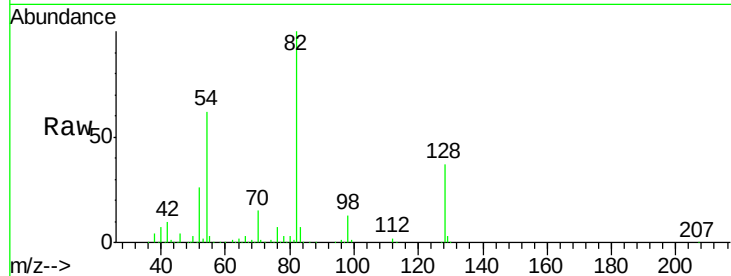




#23  
 Nitrobenzene-d5  
 Concen: N.D. ng  
 RT: 9.47 min Scan# 1052  
 Delta R.T. -0.03 min  
 Lab File: BM015906.D  
 Acq: 12 Jul 2018 09:41

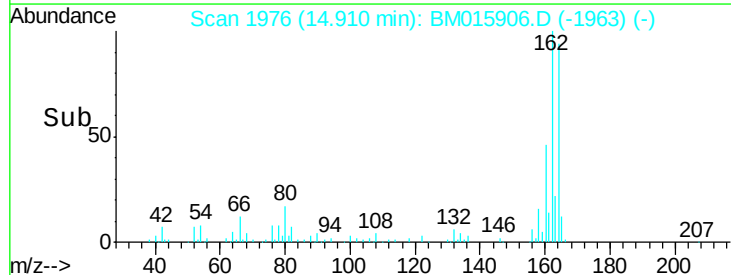
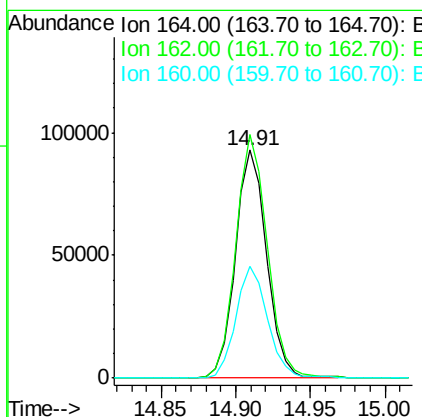
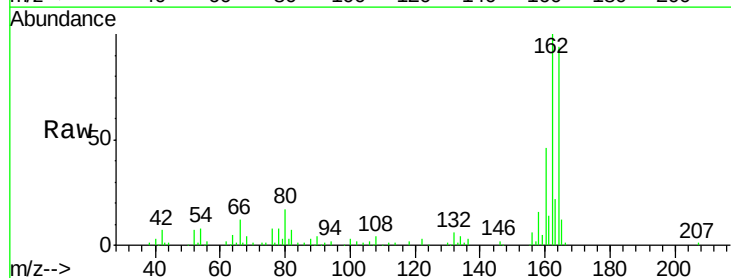
Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-01-071018-C

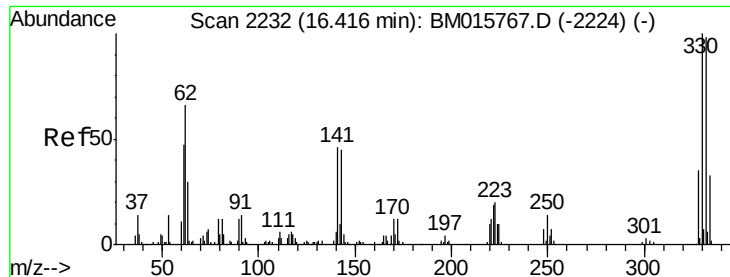
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 37.3  | 32.8  | 49.2  |
| 54      | 61.8  | 40.6  | 60.8# |



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.91 min Scan# 1976  
 Delta R.T. -0.02 min  
 Lab File: BM015906.D  
 Acq: 12 Jul 2018 09:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 106.8 | 82.4  | 123.6 |
| 160     | 49.0  | 35.8  | 53.6  |

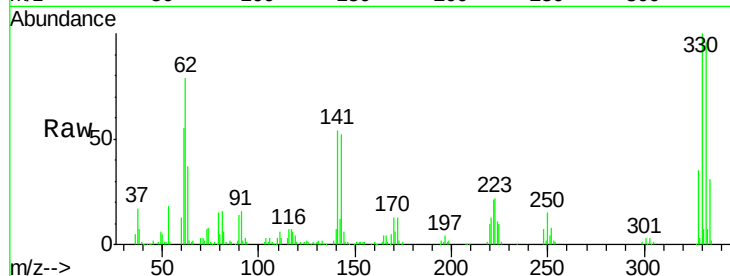




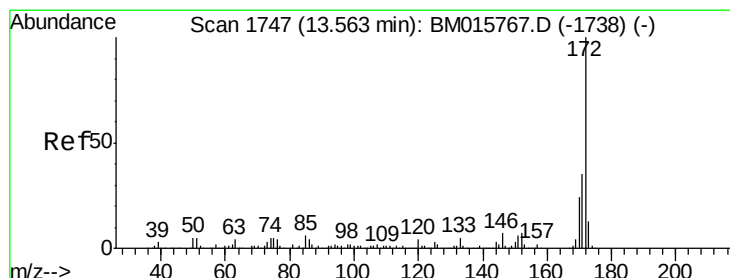
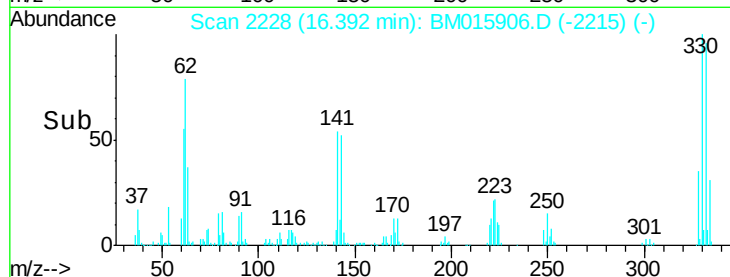
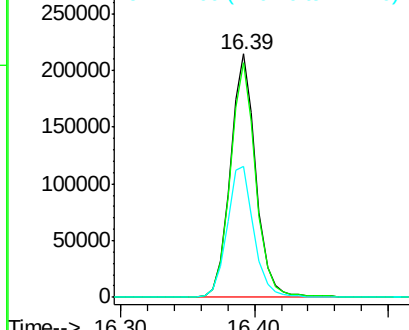
#41  
 2,4,6-Tribromophenol  
 Concen: N.D. ng  
 RT: 16.39 min Scan# 2228  
 Delta R.T. -0.02 min  
 Lab File: BM015906.D  
 Acq: 12 Jul 2018 09:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-01-071018-C

Tgt Ion:330 Resp: 287183  
 Ion Ratio Lower Upper  
 330 100  
 332 96.3 0.0 0.0#  
 141 56.4 0.0 0.0#

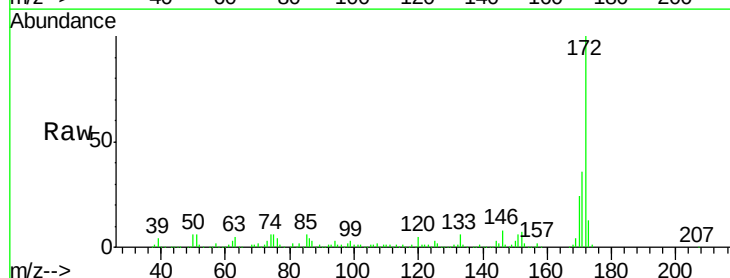


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

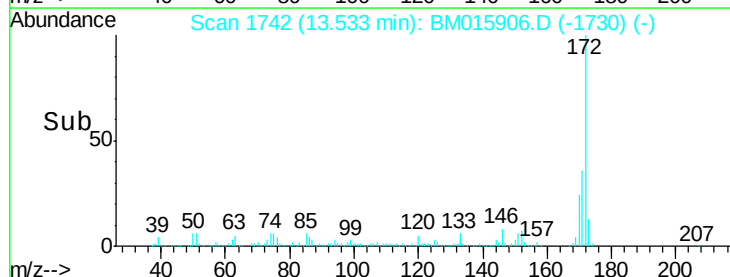
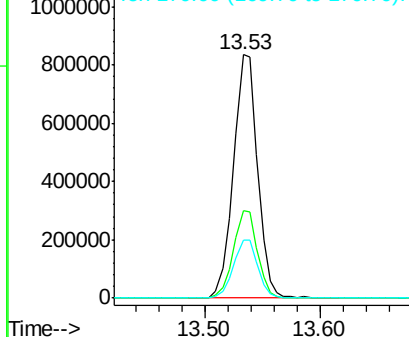


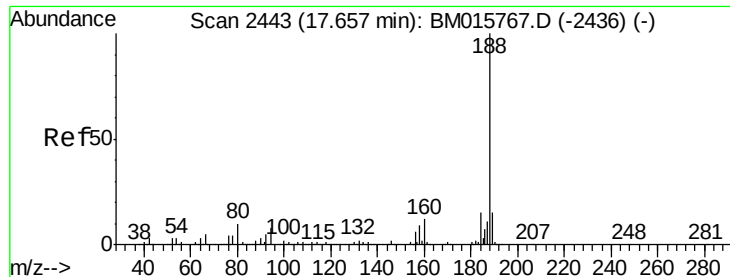
#44  
 2-Fluorobiphenyl  
 Concen: N.D. ng  
 RT: 13.53 min Scan# 1742  
 Delta R.T. -0.03 min  
 Lab File: BM015906.D  
 Acq: 12 Jul 2018 09:41

Tgt Ion:172 Resp: 1209469  
 Ion Ratio Lower Upper  
 172 100  
 171 36.0 28.5 42.7  
 170 23.7 18.8 28.2



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

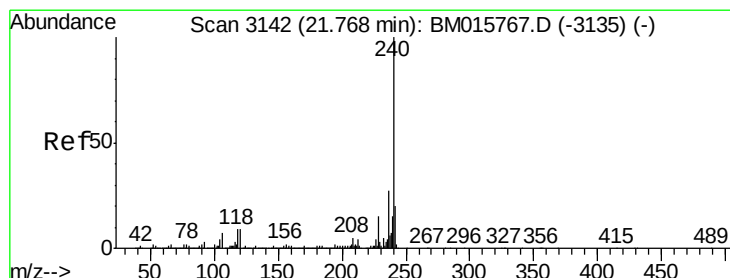
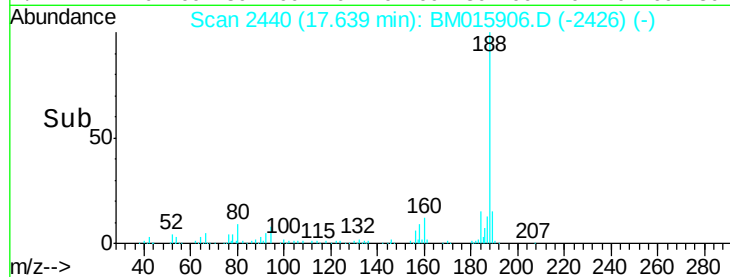
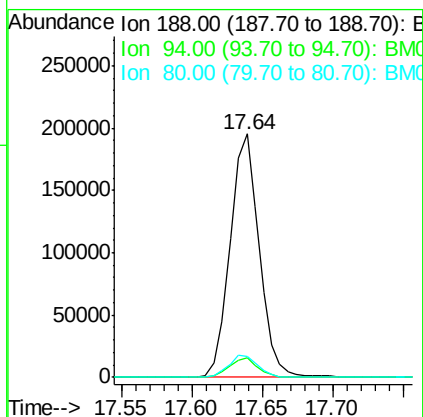
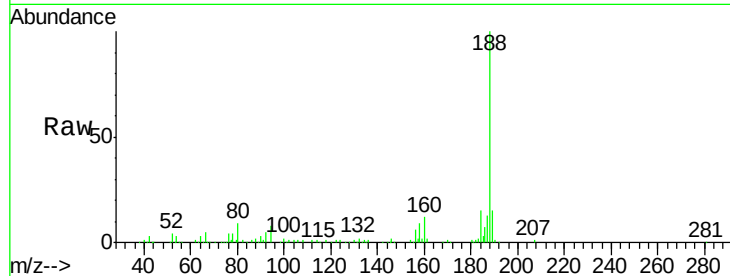




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.64 min Scan# 2440  
Delta R.T. -0.02 min  
Lab File: BM015906.D  
Acq: 12 Jul 2018 09:41

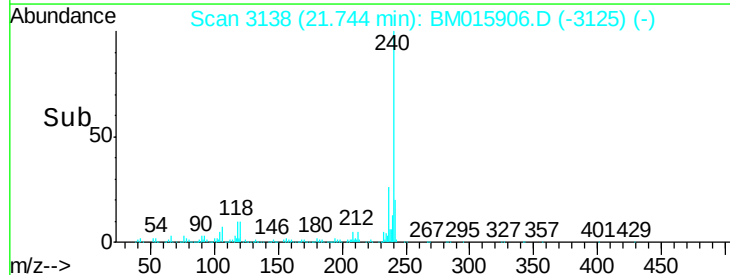
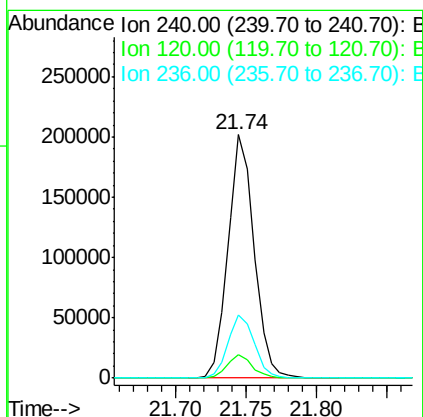
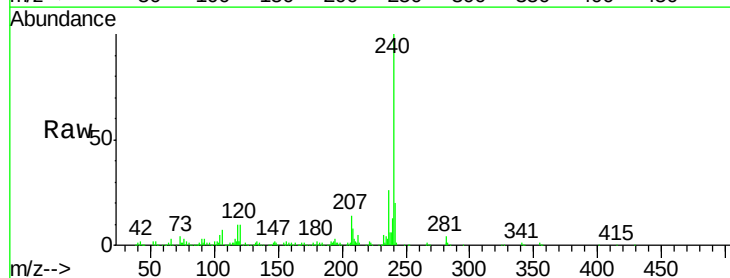
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ClientSampleId :  
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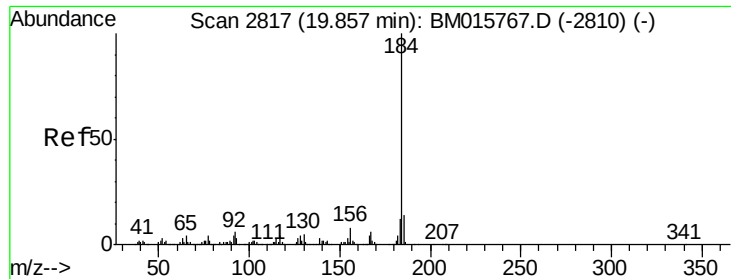
Tgt Ion:188 Resp: 280210  
Ion Ratio Lower Upper  
188 100  
94 8.1 8.7 13.1#  
80 8.5 9.3 13.9#



#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.74 min Scan# 3138  
Delta R.T. -0.02 min  
Lab File: BM015906.D  
Acq: 12 Jul 2018 09:41

Tgt Ion:240 Resp: 259599  
Ion Ratio Lower Upper  
240 100  
120 9.7 8.2 12.2  
236 26.2 20.0 30.0

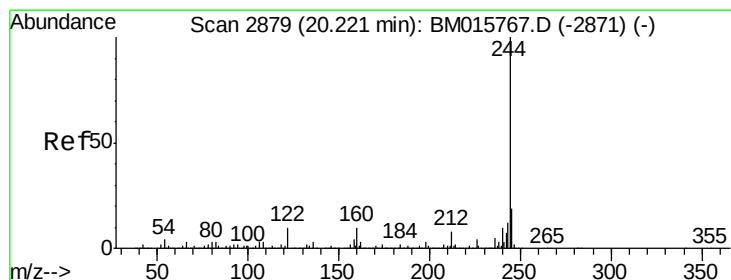
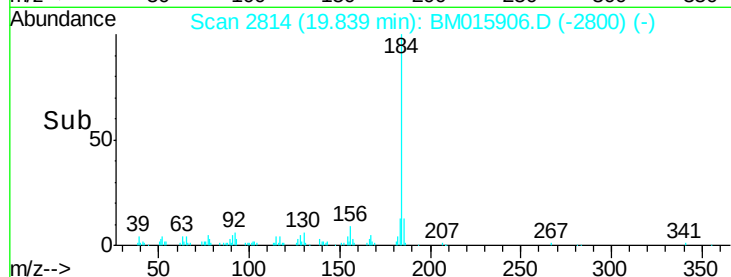
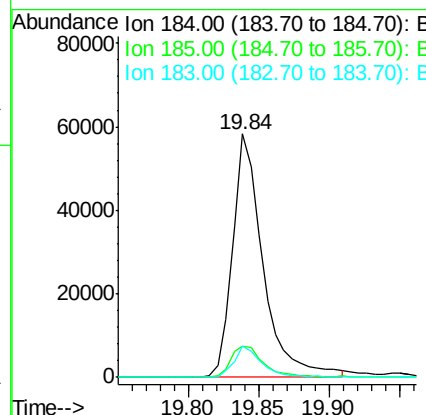
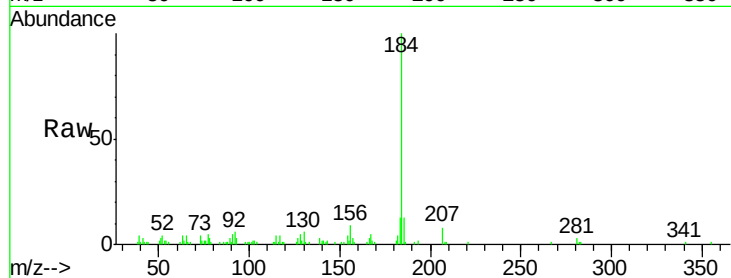




#76  
Benzidine  
Concen: 11.553 ng  
RT: 19.84 min Scan# 2814  
Delta R.T. -0.02 min  
Lab File: BM015906.D  
Acq: 12 Jul 2018 09:41

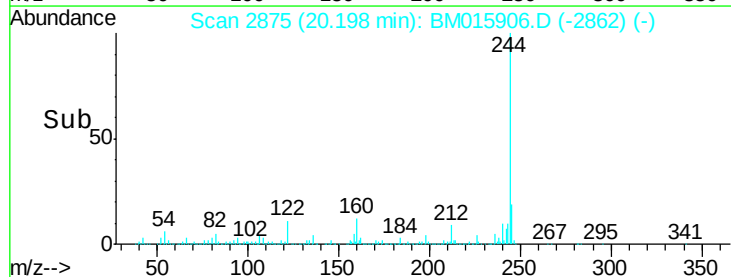
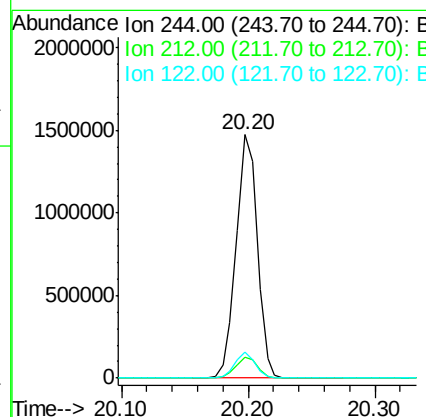
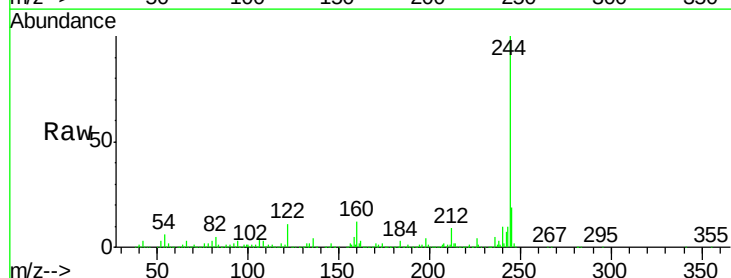
Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-071018-C

Tgt Ion:184 Resp: 87871  
Ion Ratio Lower Upper  
184 100  
185 12.9 11.3 16.9  
183 12.7 8.9 13.3

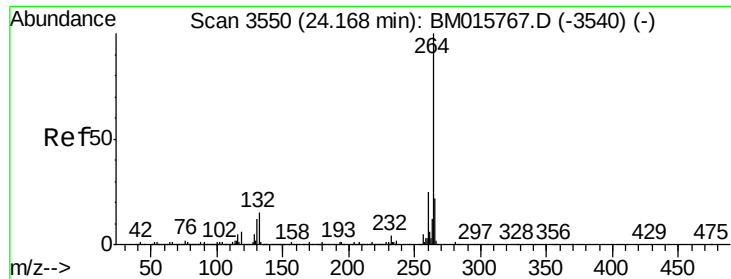


#78  
Terphenyl-d14  
Concen: Below ng  
RT: 20.20 min Scan# 2875  
Delta R.T. -0.02 min  
Lab File: BM015906.D  
Acq: 12 Jul 2018 09:41

Tgt Ion:244 Resp: 1690845  
Ion Ratio Lower Upper  
244 100  
212 8.8 4.9 7.3#  
122 10.7 6.2 9.4#



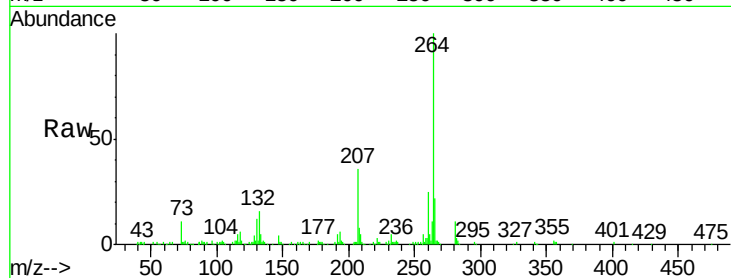




#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.14 min Scan# 3545  
Delta R.T. -0.03 min  
Lab File: BM015906.D  
Acq: 12 Jul 2018 09:41

Instrument :  
BNA\_F  
ClientSampleId :  
EO-01-071018-C

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 266162 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 25.1  | 18.6  | 27.8   |
| 265      | 22.4  | 17.3  | 25.9   |



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

