

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062116\  
 Data File : BF088227.D  
 Acq On : 21 Jun 2016 22:11  
 Operator : UM/SJ  
 Sample : PB91471BL  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91471BL

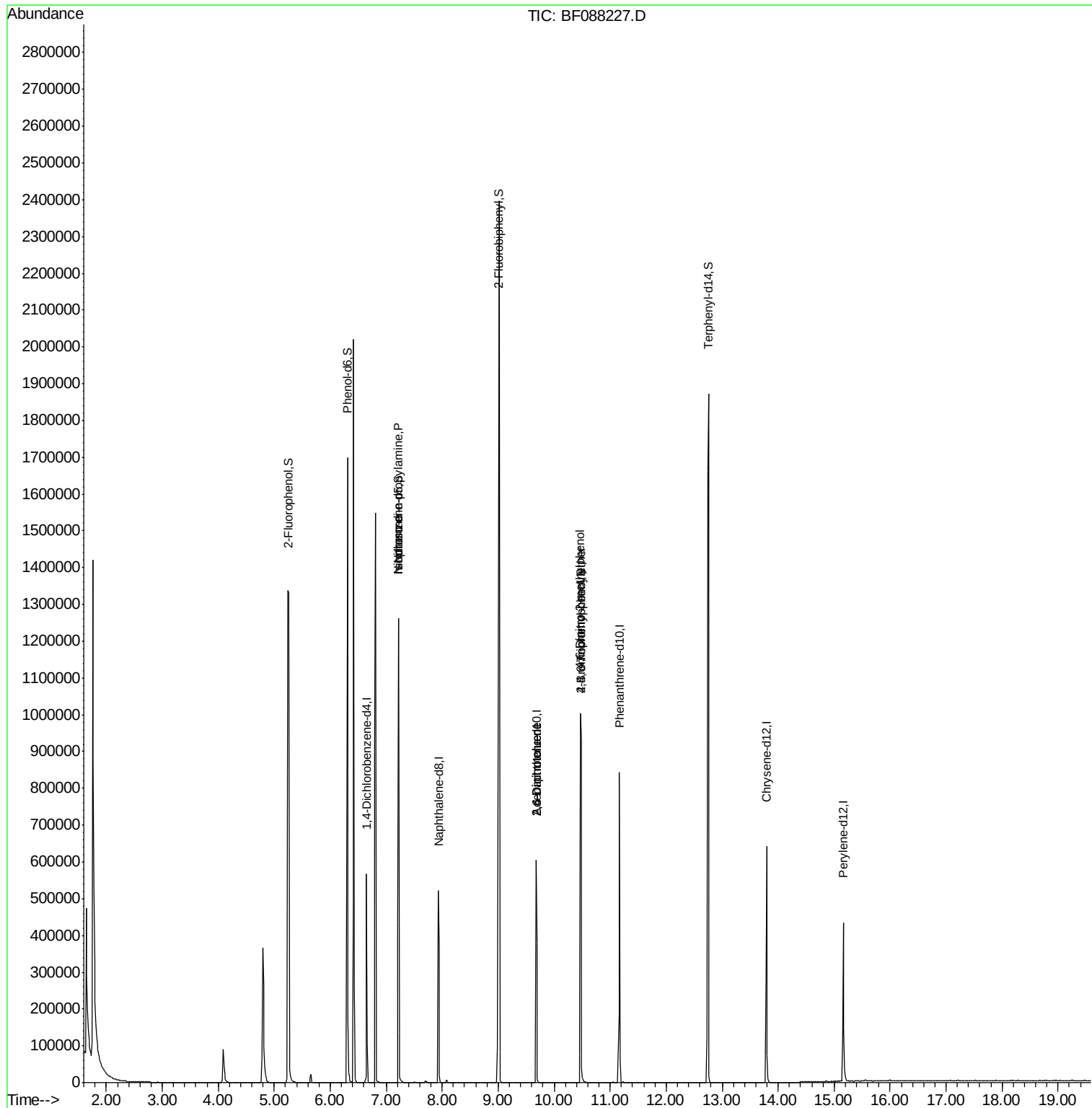
Quant Time: Jun 22 00:51:46 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 20 17:39:32 2016  
 Response via : Initial Calibration

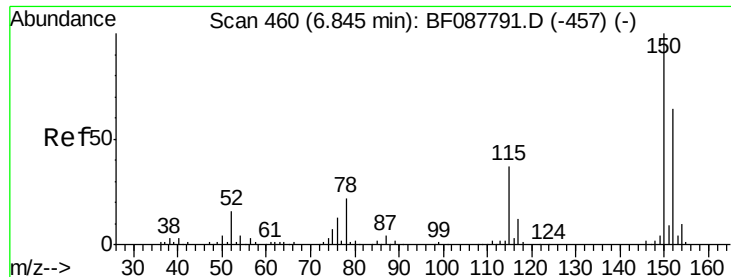
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.65  | 152  | 87948    | 20.00     | ng    | -0.02    |
| 21) Naphthalene-d8             | 7.93  | 136  | 336458   | 20.00     | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.68  | 164  | 155058   | 20.00     | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.16 | 188  | 308391   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12               | 13.79 | 240  | 247617   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 15.17 | 264  | 186717   | 20.00     | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.26  | 112  | 640997   | 124.60    | ng    | 0.00     |
| 7) Phenol-d6                   | 6.31  | 99   | 715825   | 114.81    | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.22  | 82   | 457236   | 79.36     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.48 | 330  | 198555   | 121.27    | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.02  | 172  | 866904   | 88.02     | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.75 | 244  | 854584   | 78.53     | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 10) Phenol                     | 6.42  | 94   | 853      | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.22  | 70   | 60395    | 15.14     | ng    | # 70     |
| 25) Isophorone                 | 7.22  | 82   | 349907   | 32.79     | ng    | # 65     |
| 45) 1,1'-Biphenyl              | 9.02  | 154  | 1676     | Below Cal | #     | 1        |
| 50) 2,6-Dinitrotoluene         | 9.68  | 165  | 19380    | 7.53      | ng    | # 37     |
| 56) 2,4-Dinitrotoluene         | 9.68  | 165  | 19380    | 5.86      | ng    | # 36     |
| 57) Fluorene                   | 10.47 | 166  | 9075     | Below Cal | #     | 87       |
| 64) 4,6-Dinitro-2-methylphenol | 10.47 | 198  | 224      | 2.27      | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.48 | 248  | 12542    | 3.79      | ng    | # 1      |

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

```
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QLast Update : Mon Jun 20 17:39:32 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.65 min Scan# 443

Delta R.T. -0.02 min

Lab File: BF088227.D

Acq: 21 Jun 2016 22:11

Instrument :

BNA\_F

ClientSampleId :

PB91471BL

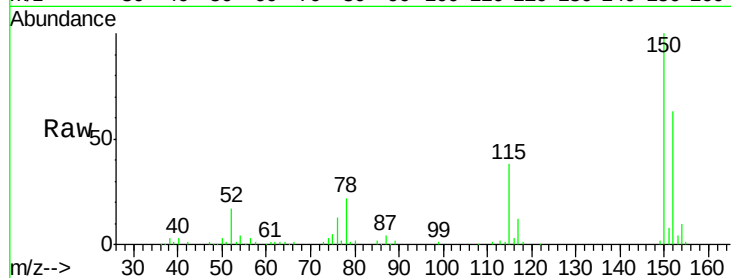
Tgt Ion:152 Resp: 87948

Ion Ratio Lower Upper

152 100

150 157.9 123.8 185.6

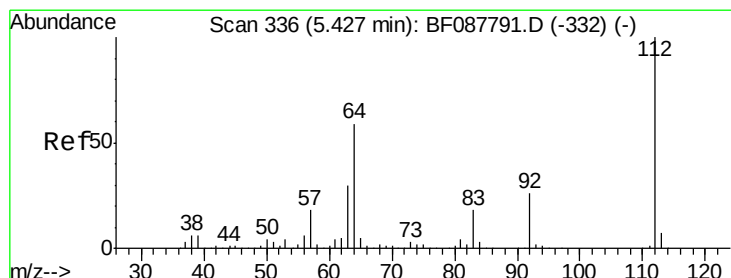
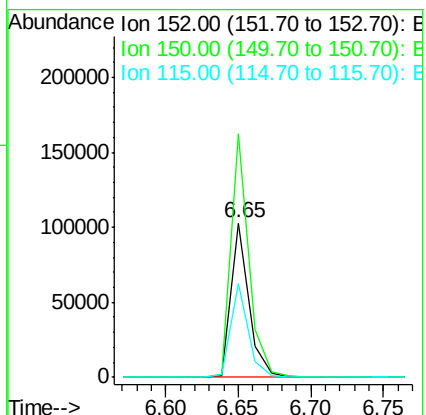
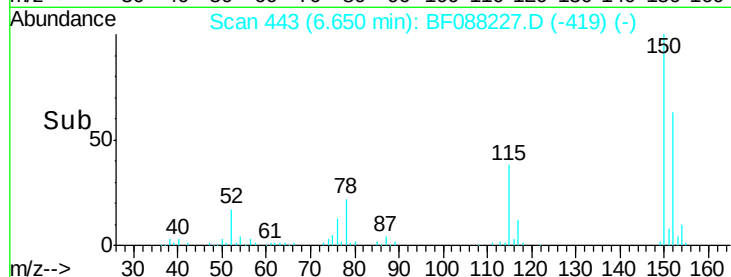
115 60.5 39.6 59.4#



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: 124.60 ng

RT: 5.26 min Scan# 321

Delta R.T. -0.00 min

Lab File: BF088227.D

Acq: 21 Jun 2016 22:11

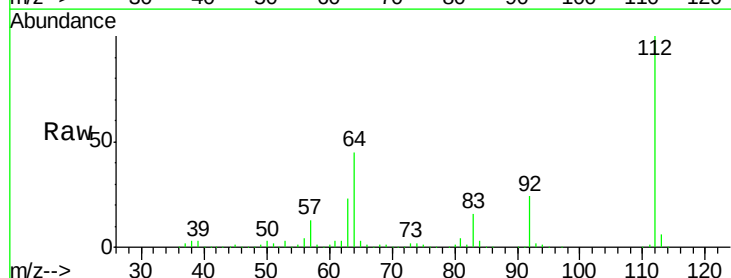
Tgt Ion:112 Resp: 640997

Ion Ratio Lower Upper

112 100

64 45.2 42.2 63.2

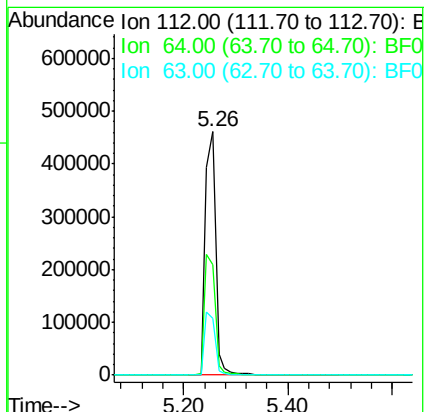
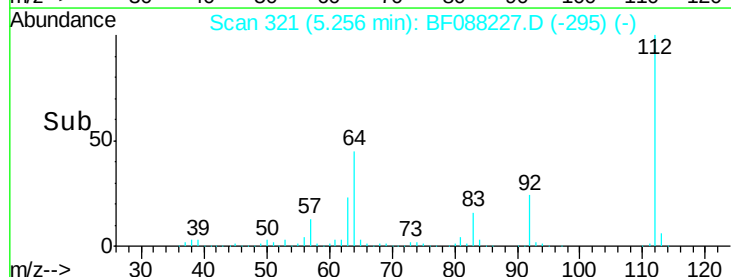
63 23.1 21.8 32.8

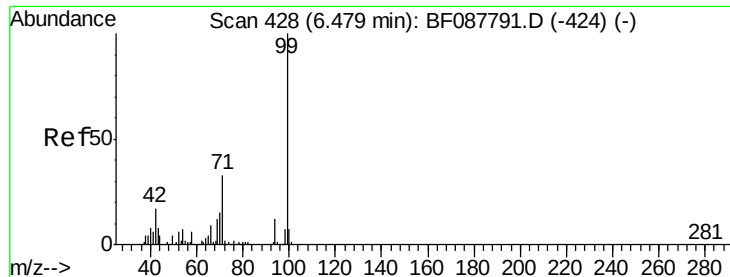


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 114.81 ng

RT: 6.31 min Scan# 413

Delta R.T. -0.02 min

Lab File: BF088227.D

Acq: 21 Jun 2016 22:11

Instrument :

BNA\_F

ClientSampleId :

PB91471BL

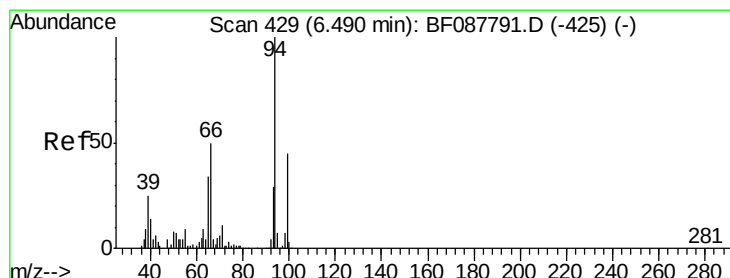
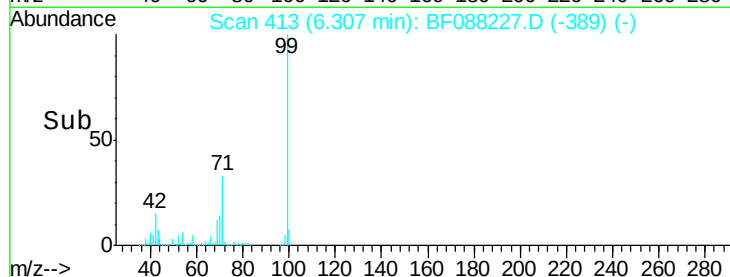
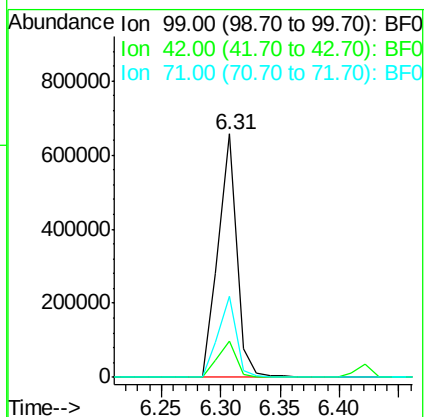
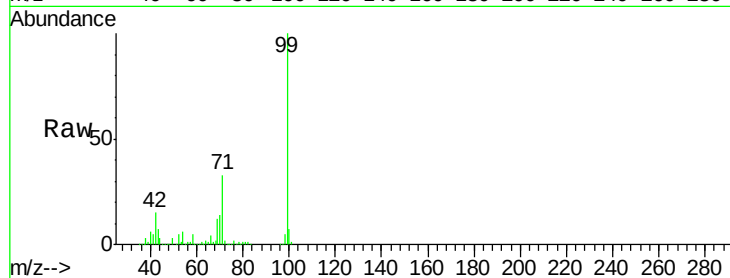
Tgt Ion: 99 Resp: 715825

Ion Ratio Lower Upper

99 100

42 15.1 12.2 18.2

71 33.4 23.4 35.0



#10

Phenol

Concen: Below Cal

RT: 6.42 min Scan# 423

Delta R.T. 0.08 min

Lab File: BF088227.D

Acq: 21 Jun 2016 22:11

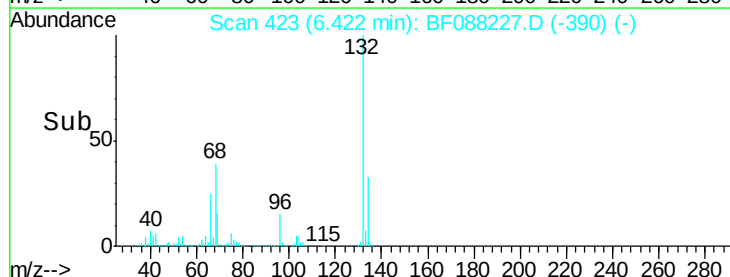
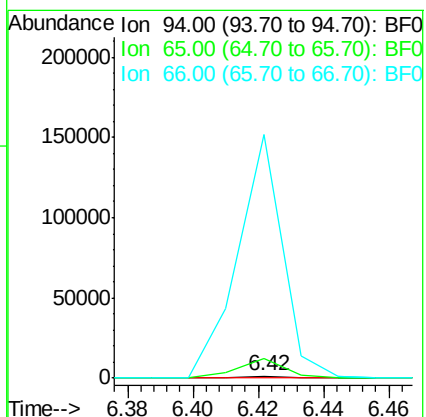
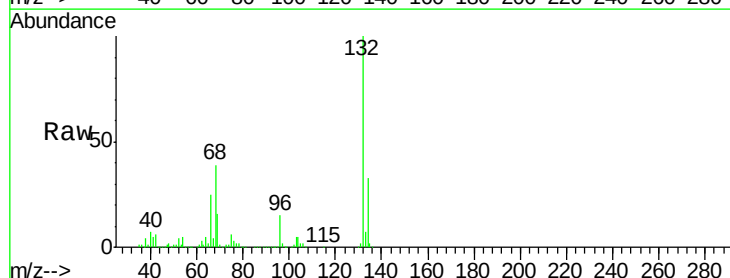
Tgt Ion: 94 Resp: 853

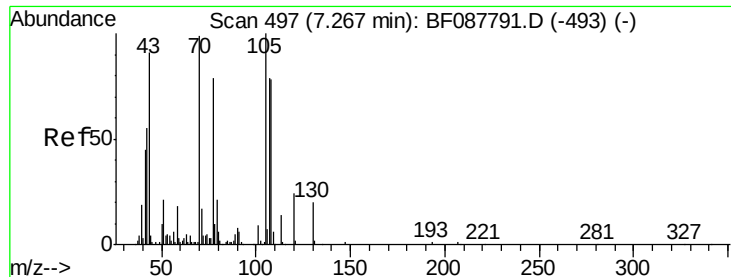
Ion Ratio Lower Upper

94 100

65 955.7 5.9 45.9#

66 12198.1 14.0 54.0#

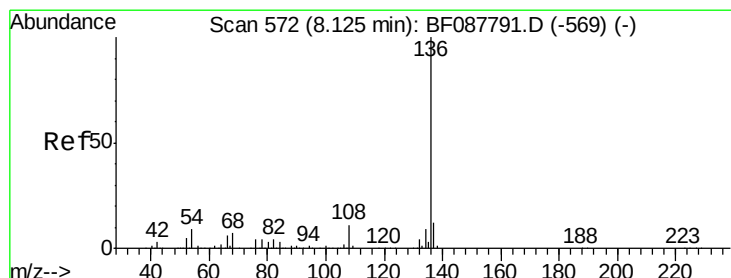
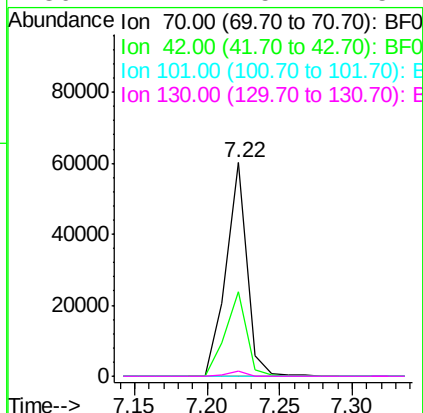
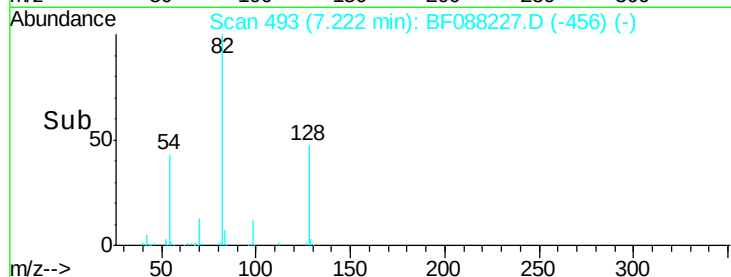
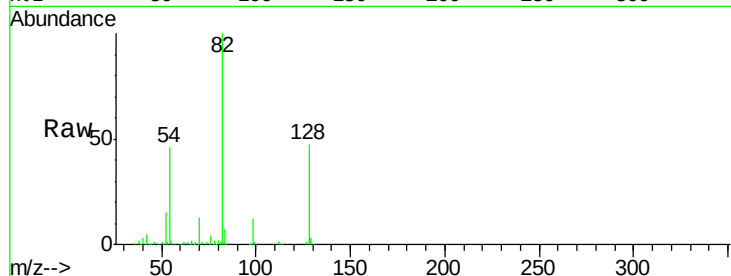




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.14 ng  
RT: 7.22 min Scan# 493  
Delta R.T. 0.13 min  
Lab File: BF088227.D  
Acq: 21 Jun 2016 22:11

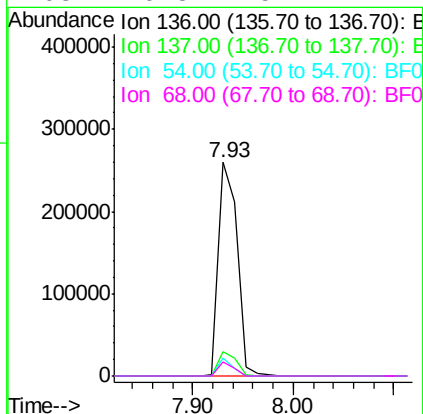
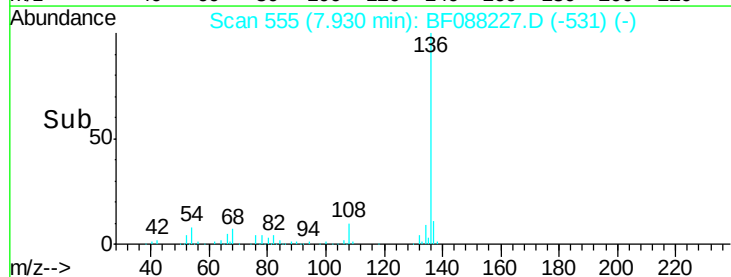
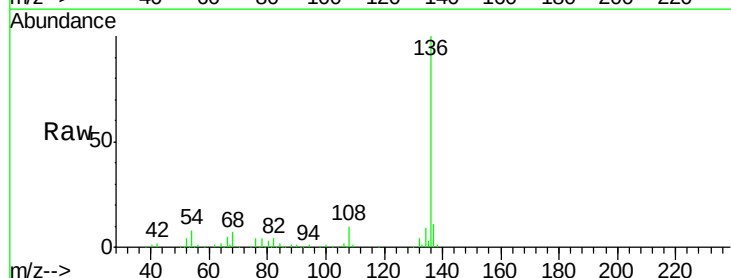
Instrument :  
BNA\_F  
ClientSampleId :  
PB91471BL

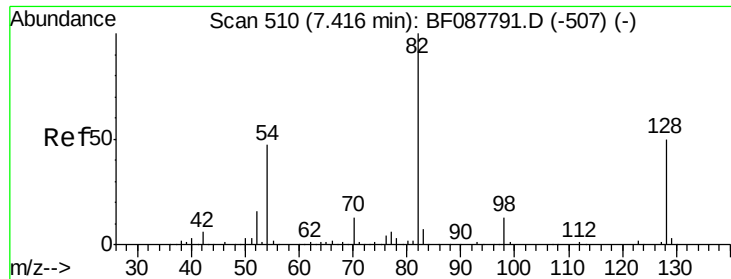
Tgt Ion: 70 Resp: 60395  
Ion Ratio Lower Upper  
70 100  
42 39.7 49.6 74.4#  
101 0.0 7.1 10.7#  
130 2.4 15.4 23.2#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.93 min Scan# 555  
Delta R.T. -0.02 min  
Lab File: BF088227.D  
Acq: 21 Jun 2016 22:11

Tgt Ion: 136 Resp: 336458  
Ion Ratio Lower Upper  
136 100  
137 11.2 9.1 13.7  
54 8.4 6.6 10.0  
68 6.8 5.1 7.7

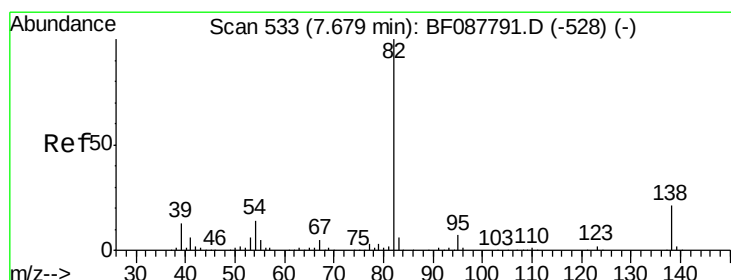
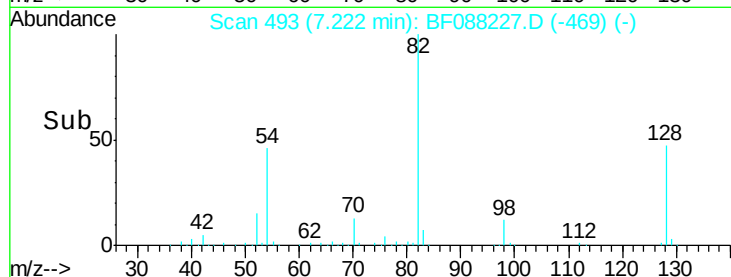
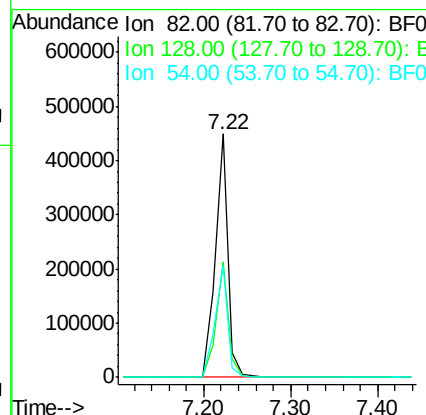
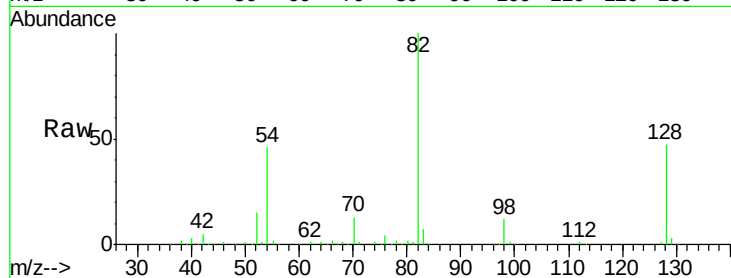




#23  
Nitrobenzene-d5  
Concen: 79.36 ng  
RT: 7.22 min Scan# 493  
Delta R.T. -0.02 min  
Lab File: BF088227.D  
Acq: 21 Jun 2016 22:11

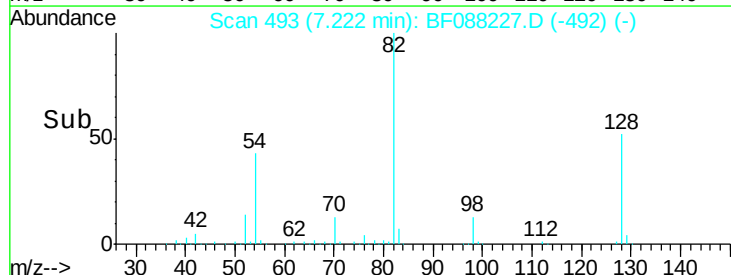
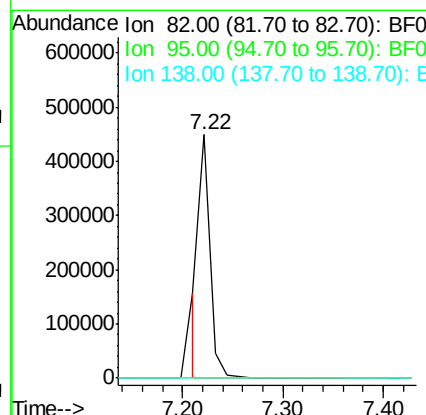
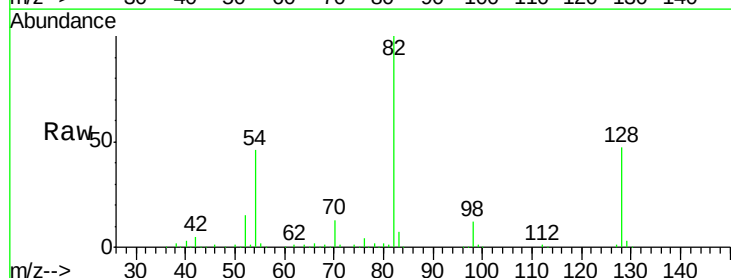
Instrument :  
BNA\_F  
ClientSampleId :  
PB91471BL

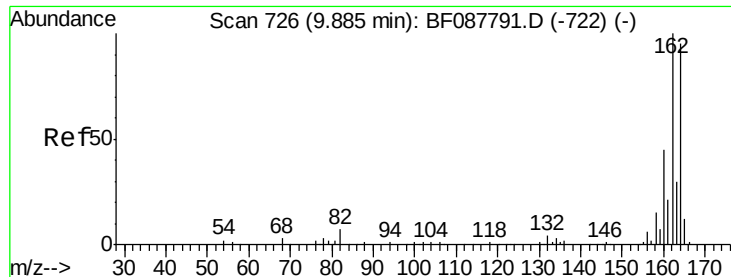
Tgt Ion: 82 Resp: 457236  
Ion Ratio Lower Upper  
82 100  
128 47.2 35.9 53.9  
54 45.7 40.9 61.3



#25  
Isophorone  
Concen: 32.79 ng  
RT: 7.22 min Scan# 493  
Delta R.T. -0.29 min  
Lab File: BF088227.D  
Acq: 21 Jun 2016 22:11

Tgt Ion: 82 Resp: 349907  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.4 8.2#  
138 0.0 14.6 21.8#

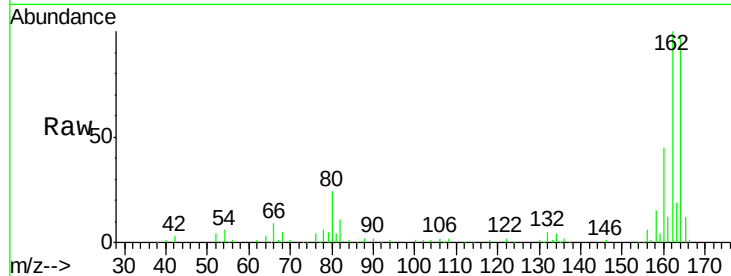




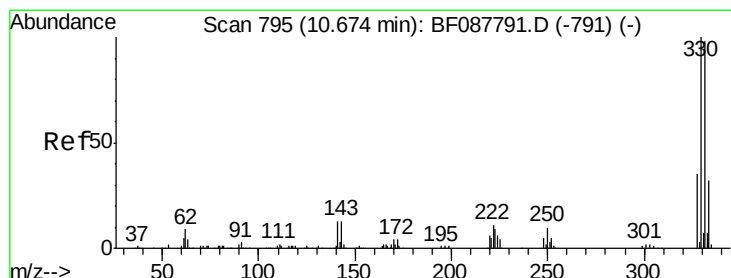
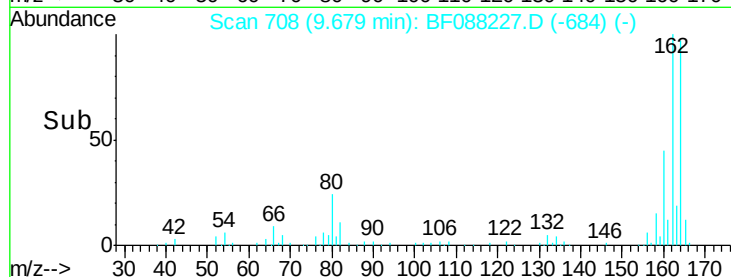
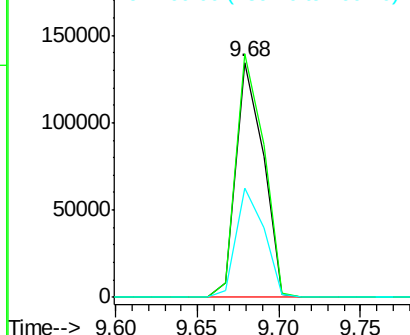
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.68 min Scan# 708  
 Delta R.T. -0.02 min  
 Lab File: BF088227.D  
 Acq: 21 Jun 2016 22:11

Instrument :  
 BNA\_F  
 ClientSampleID :  
 PB91471BL

Tgt Ion:164 Resp: 155058  
 Ion Ratio Lower Upper  
 164 100  
 162 103.6 85.4 128.2  
 160 46.5 39.5 59.3

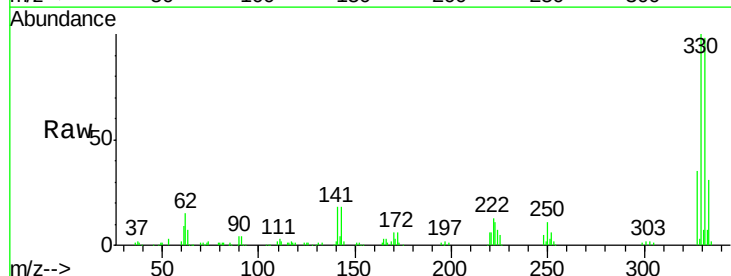


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

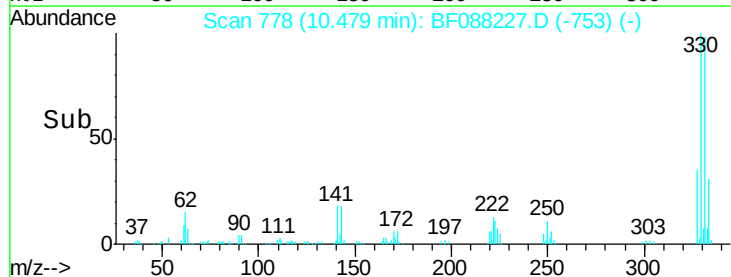
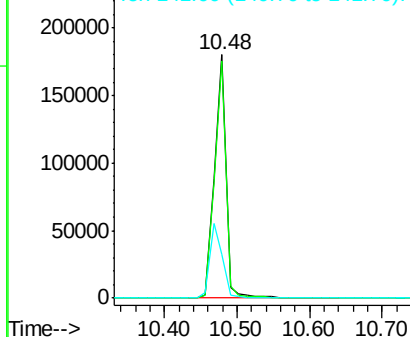


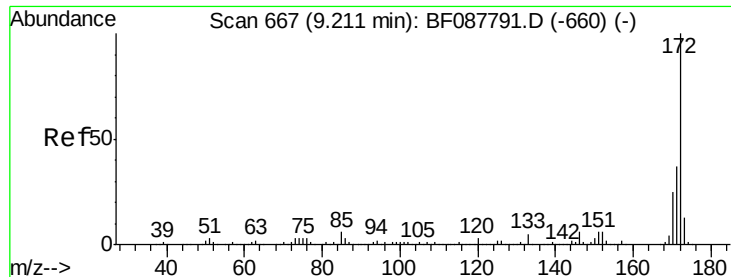
#41  
 2,4,6-Tribromophenol  
 Concen: 121.27 ng  
 RT: 10.48 min Scan# 778  
 Delta R.T. -0.01 min  
 Lab File: BF088227.D  
 Acq: 21 Jun 2016 22:11

Tgt Ion:330 Resp: 198555  
 Ion Ratio Lower Upper  
 330 100  
 332 97.3 0.0 0.0#  
 141 33.4 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

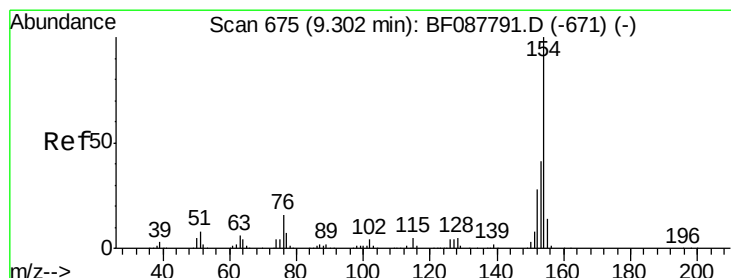
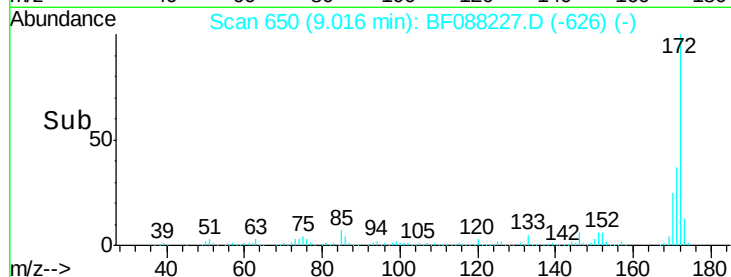
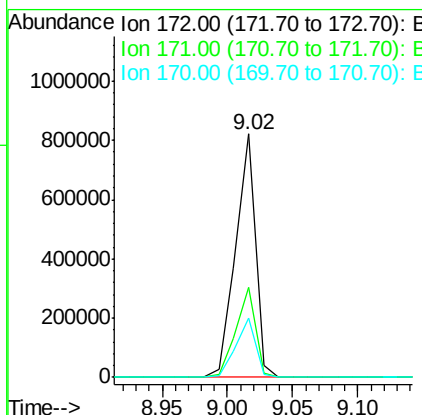
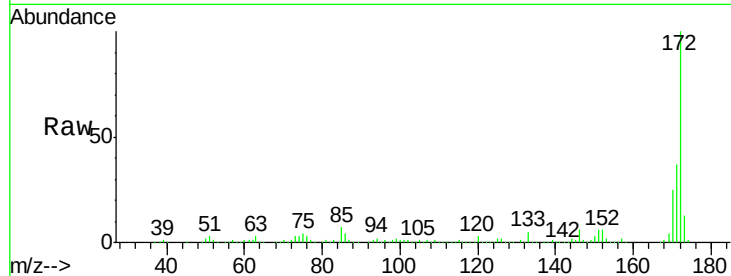




#44  
2-Fluorobiphenyl  
Concen: 88.02 ng  
RT: 9.02 min Scan# 650  
Delta R.T. -0.02 min  
Lab File: BF088227.D  
Acq: 21 Jun 2016 22:11

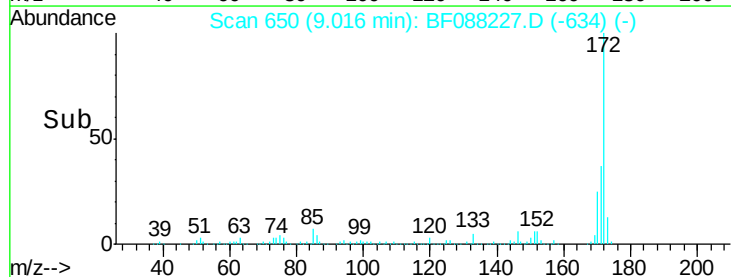
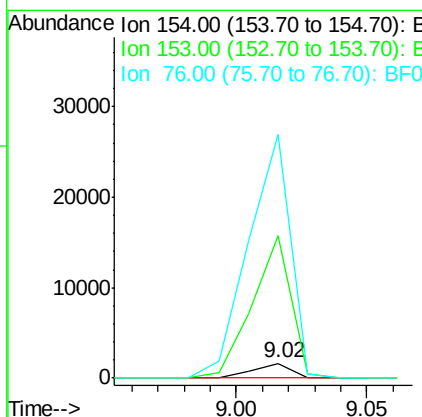
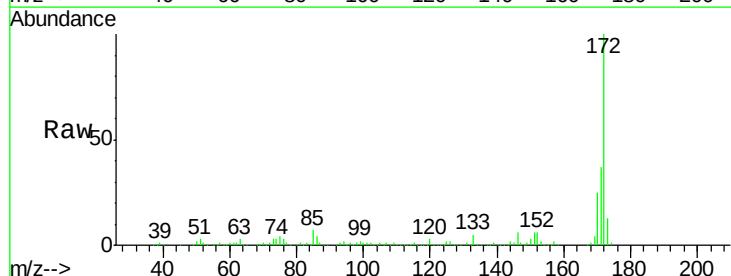
Instrument :  
BNA\_F  
ClientSampleId :  
PB91471BL

Tgt Ion:172 Resp: 866904  
Ion Ratio Lower Upper  
172 100  
171 36.7 28.6 43.0  
170 24.6 19.2 28.8

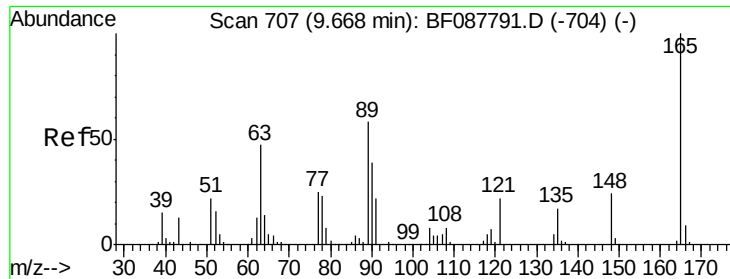


#45  
1,1'-Biphenyl  
Concen: Below Cal  
RT: 9.02 min Scan# 650  
Delta R.T. -0.11 min  
Lab File: BF088227.D  
Acq: 21 Jun 2016 22:11

Tgt Ion:154 Resp: 1676  
Ion Ratio Lower Upper  
154 100  
153 943.5 20.6 60.6#  
76 1611.5 0.0 35.1#



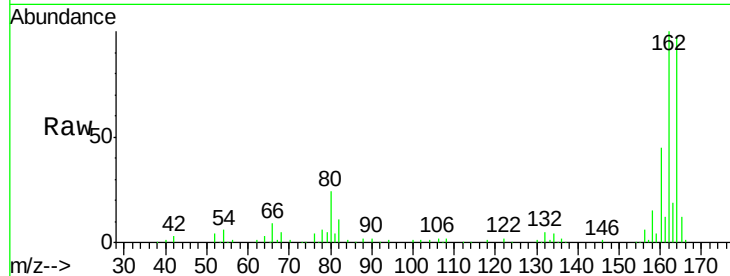




#50  
 2,6-Dinitrotoluene  
 Concen: 7.53 ng  
 RT: 9.68 min Scan# 708  
 Delta R.T. 0.17 min  
 Lab File: BF088227.D  
 Acq: 21 Jun 2016 22:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91471BL

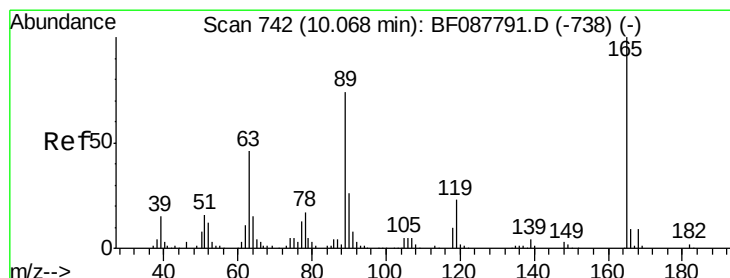
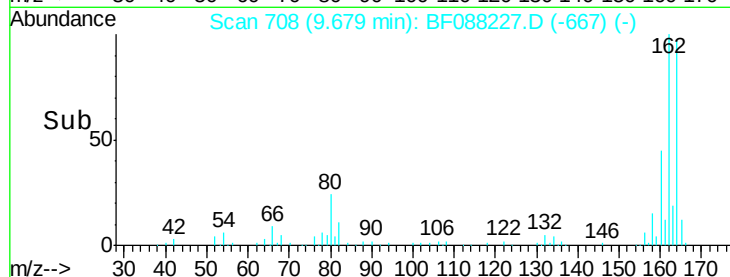
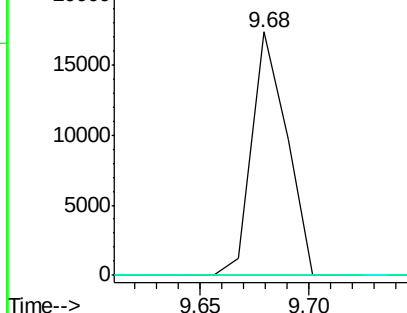
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 28.1  | 42.1# |
| 89      | 0.0   | 32.2  | 48.2# |



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56  
 2,4-Dinitrotoluene  
 Concen: 5.86 ng  
 RT: 9.68 min Scan# 708  
 Delta R.T. -0.23 min  
 Lab File: BF088227.D  
 Acq: 21 Jun 2016 22:11

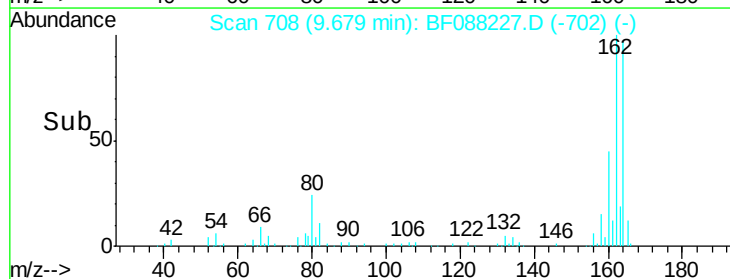
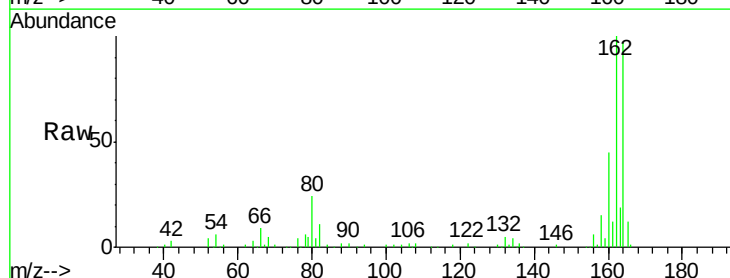
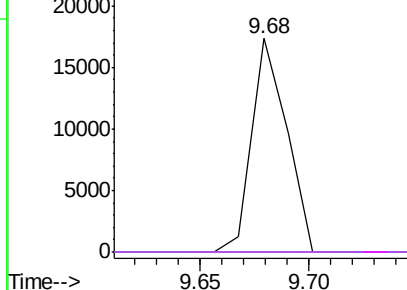
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 22.0  | 33.0# |
| 89      | 0.0   | 41.1  | 61.7# |
| 182     | 0.0   | 2.0   | 3.0#  |

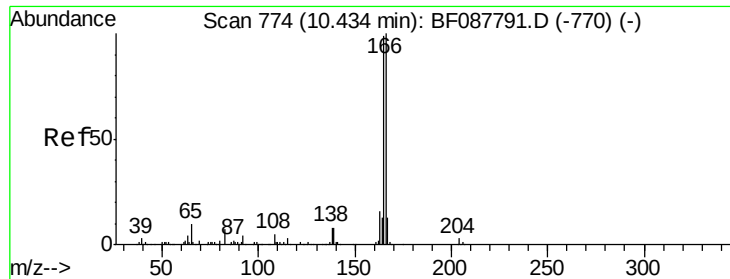
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E





#57

Fluorene

Concen: Below Cal

RT: 10.47 min Scan# 777

Delta R.T. 0.22 min

Lab File: BF088227.D

Acq: 21 Jun 2016 22:11

Instrument :

BNA\_F

ClientSampleId :

PB91471BL

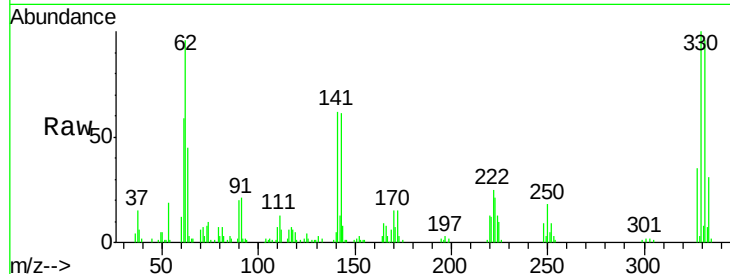
Tgt Ion:166 Resp: 9075

Ion Ratio Lower Upper

166 100

165 104.5 77.8 116.8

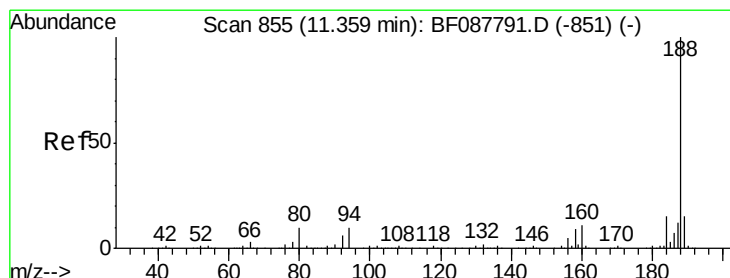
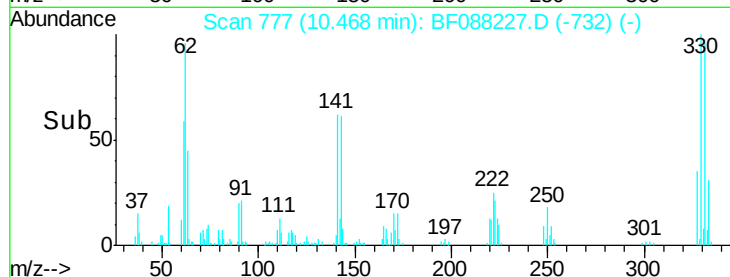
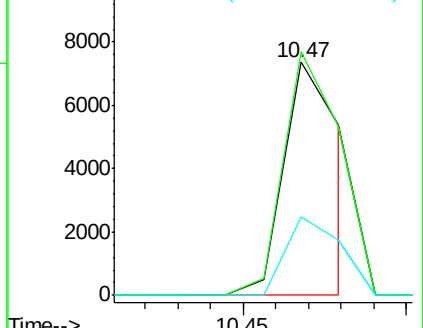
167 33.7 11.2 16.8#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.16 min Scan# 838

Delta R.T. -0.01 min

Lab File: BF088227.D

Acq: 21 Jun 2016 22:11

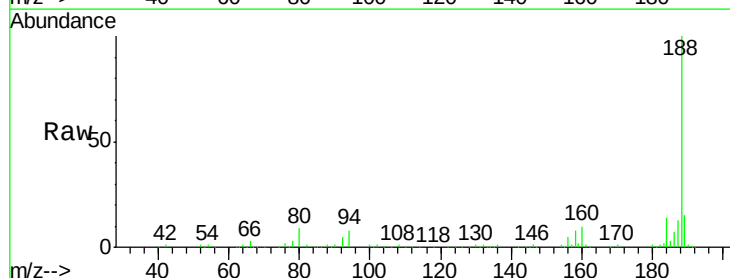
Tgt Ion:188 Resp: 308391

Ion Ratio Lower Upper

188 100

94 8.3 9.0 13.6#

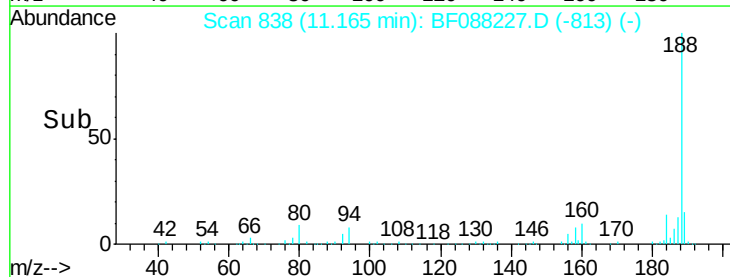
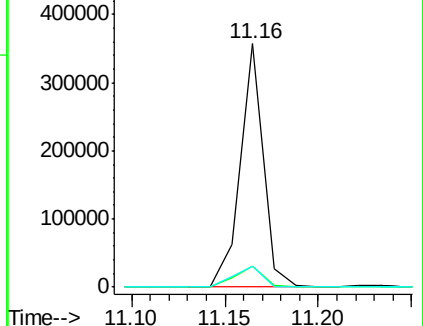
80 8.8 10.0 15.0#

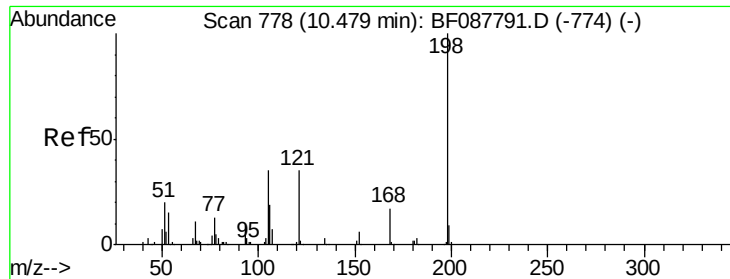


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#64

4,6-Dinitro-2-methylphenol

Concen: 2.27 ng

RT: 10.47 min Scan# 777

Delta R.T. 0.15 min

Lab File: BF088227.D

Acq: 21 Jun 2016 22:11

Instrument :

BNA\_F

ClientSampleId :

PB91471BL

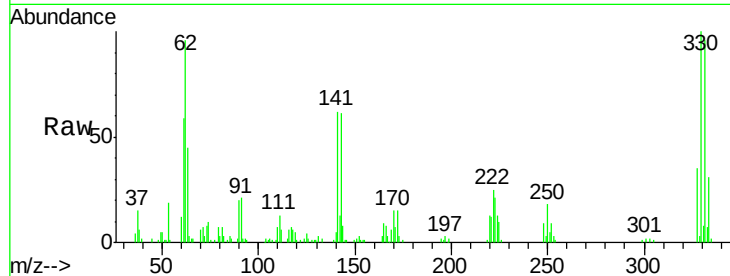
Tgt Ion:198 Resp: 224

Ion Ratio Lower Upper

198 100

51 219.9 39.6 79.6#

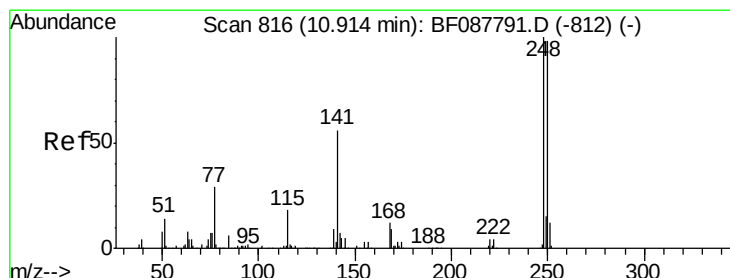
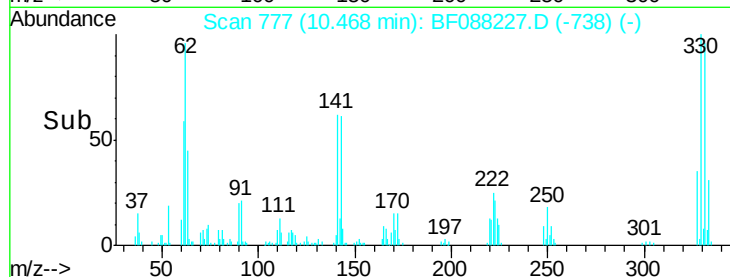
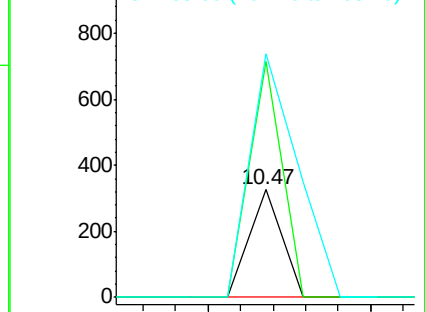
105 226.4 36.6 76.6#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 3.79 ng

RT: 10.48 min Scan# 778

Delta R.T. -0.25 min

Lab File: BF088227.D

Acq: 21 Jun 2016 22:11

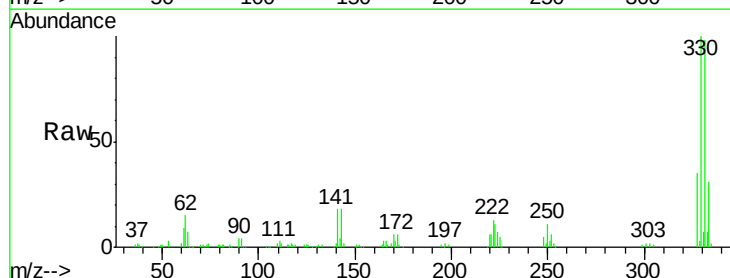
Tgt Ion:248 Resp: 12542

Ion Ratio Lower Upper

248 100

250 202.4 77.1 115.7#

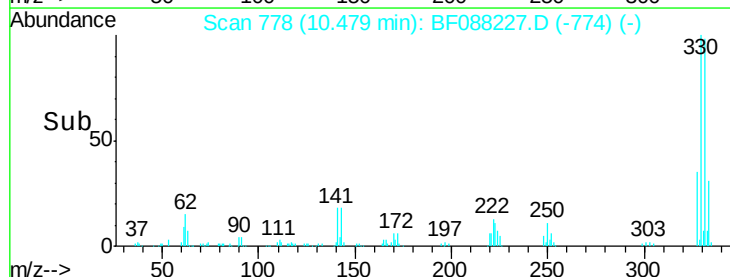
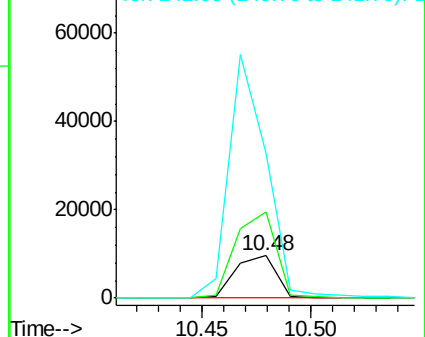
141 342.3 50.6 76.0#

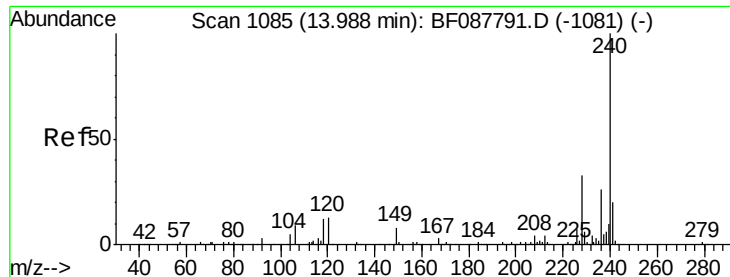


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BF088227.D

Acq: 21 Jun 2016 22:11

Instrument :

BNA\_F

ClientSampleId :

PB91471BL

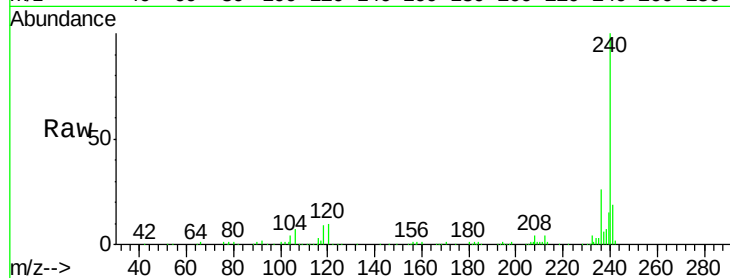
Tgt Ion:240 Resp: 247617

Ion Ratio Lower Upper

240 100

120 10.4 6.8 10.2#

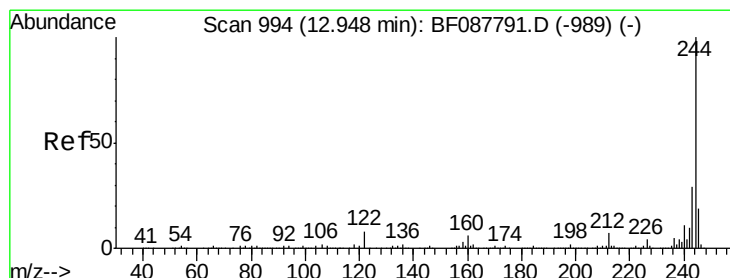
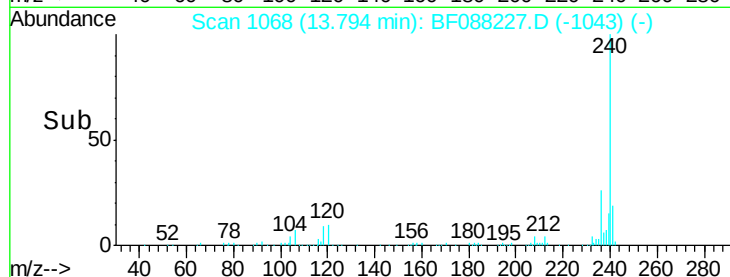
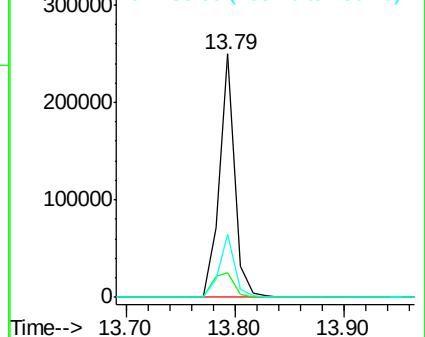
236 25.8 20.2 30.2



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Terphenyl-d14

Concen: 78.53 ng

RT: 12.75 min Scan# 977

Delta R.T. -0.01 min

Lab File: BF088227.D

Acq: 21 Jun 2016 22:11

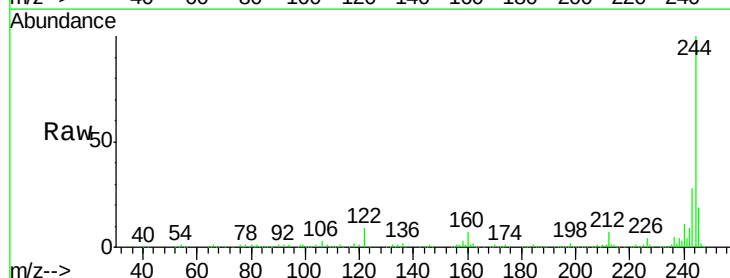
Tgt Ion:244 Resp: 854584

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

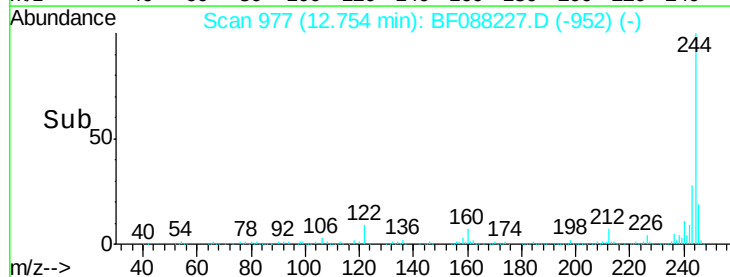
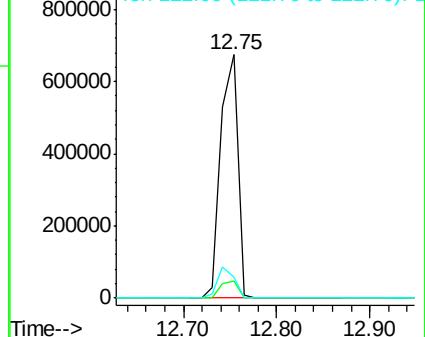
122 8.7 11.2 16.8#

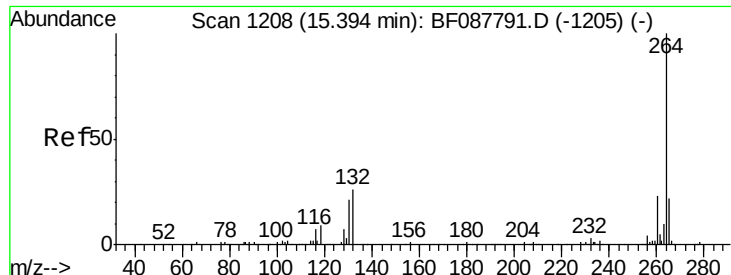


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

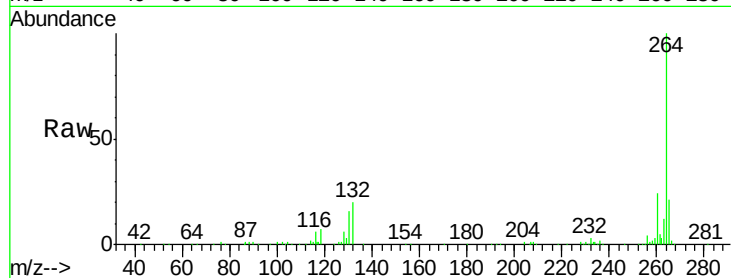




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.17 min Scan# 1188  
Delta R.T. -0.01 min  
Lab File: BF088227.D  
Acq: 21 Jun 2016 22:11

Instrument :  
BNA\_F  
ClientSampleId :  
PB91471BL

Tgt Ion: 264 Resp: 186717  
Ion Ratio Lower Upper  
264 100  
260 23.6 19.2 28.8  
265 21.5 16.9 25.3



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

