

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052416\  
 Data File : BF087363.D  
 Acq On : 25 May 2016 5:18  
 Operator : UM/SJ  
 Sample : H3191-15  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHS-STA-1690(0-4)

Quant Time: May 25 05:59:53 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF052316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 25 00:58:25 2016  
 Response via : Initial Calibration

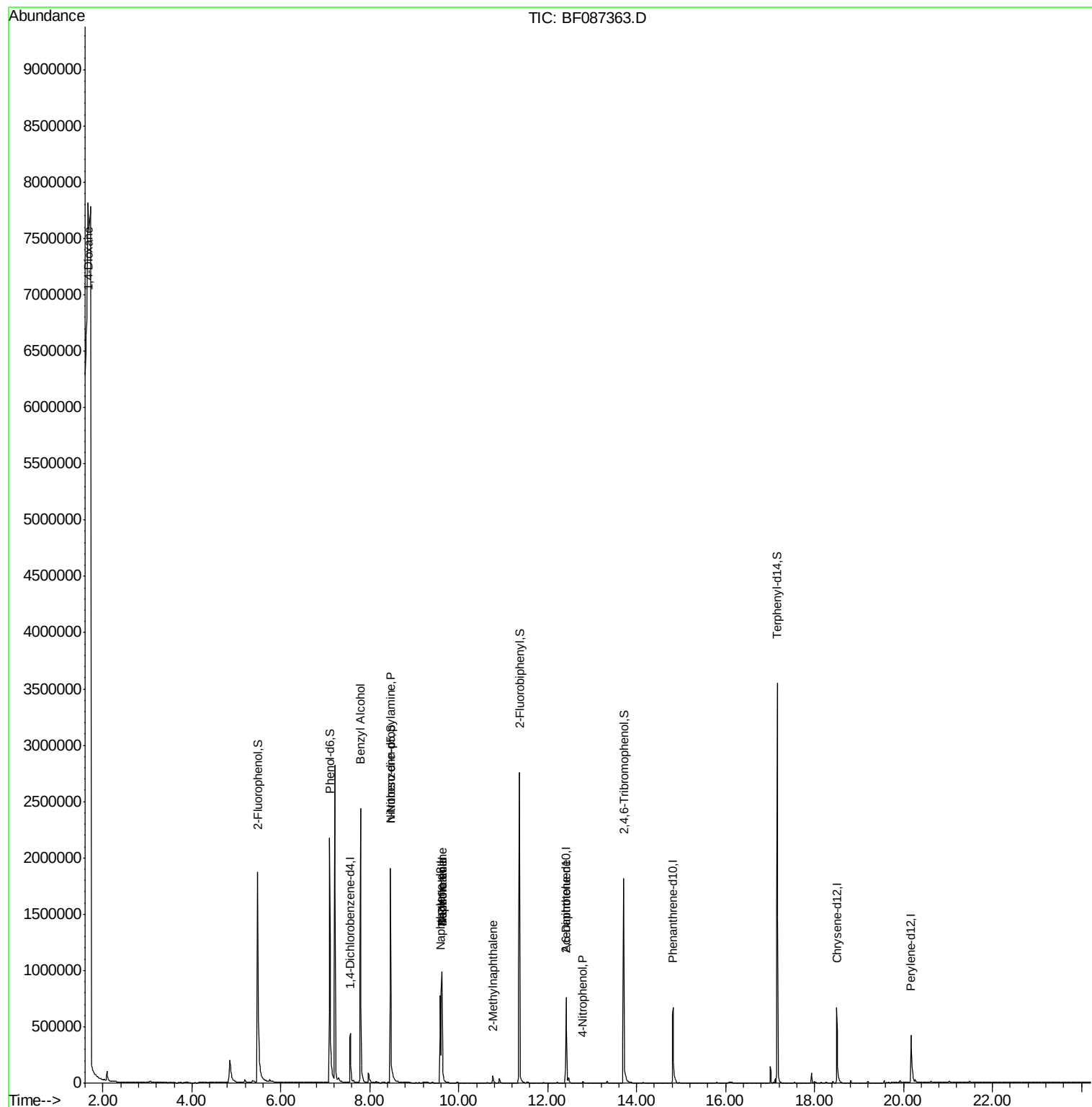
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.56  | 152  | 110008   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 9.59  | 136  | 442408   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 12.41 | 164  | 214635   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 14.82 | 188  | 434627   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 18.50 | 240  | 367759   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 20.17 | 264  | 266462   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.48  | 112  | 909473   | 145.27 | ng    | 0.02     |
| 7) Phenol-d6                   | 7.10  | 99   | 1085974  | 128.37 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 8.47  | 82   | 849611   | 96.79  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 13.71 | 330  | 337037   | 163.41 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 11.37 | 172  | 1477724  | 97.06  | ng    | -0.01    |
| 78) Terphenyl-d14              | 17.17 | 244  | 1461818  | 84.51  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                 | 1.67  | 88   | 62869    | 19.03  | ng    | # 22     |
| 15) Benzyl Alcohol             | 7.79  | 79   | 14976    | 2.43   | ng    | # 40     |
| 19) n-Nitroso-di-n-propylamine | 8.47  | 70   | 113538   | 18.00  | ng    | # 74     |
| 31) Naphthalene                | 9.62  | 128  | 735497   | 33.18  | ng    | 100      |
| 32) Benzoic acid               | 9.62  | 122  | 1580     | 6.23   | ng    | # 1      |
| 33) 4-Chloroaniline            | 9.62  | 127  | 96343    | 11.80  | ng    | # 36     |
| 37) 2-Methylnaphthalene        | 10.76 | 142  | 34057    | 2.46   | ng    | 96       |
| 50) 2,6-Dinitrotoluene         | 12.41 | 165  | 24976    | 7.21   | ng    | # 21     |
| 55) 4-Nitrophenol              | 12.79 | 139  | 5278     | 3.11   | ng    | # 14     |

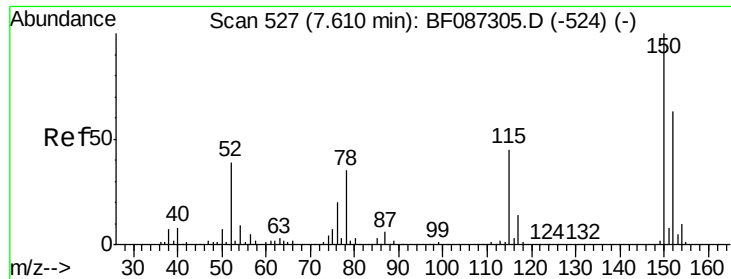
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052416\  
Data File : BF087363.D  
Acq On : 25 May 2016 5:18  
Operator : UM/SJ  
Sample : H3191-15  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1690(0-4)

Quant Time: May 25 05:59:53 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF052316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 25 00:58:25 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.56 min Scan# 523

Delta R.T. -0.00 min

Lab File: BF087363.D

Acq: 25 May 2016 5:18

Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1690(0-4)

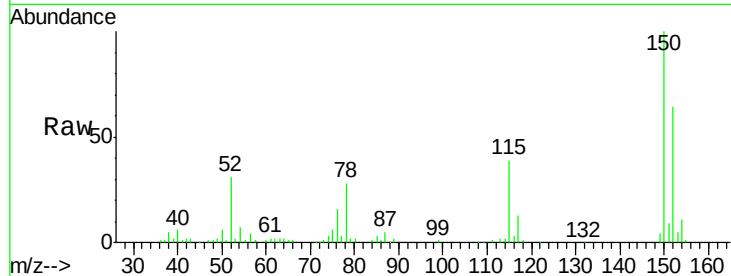
Tgt Ion:152 Resp: 110008

Ion Ratio Lower Upper

152 100

150 155.3 125.8 188.6

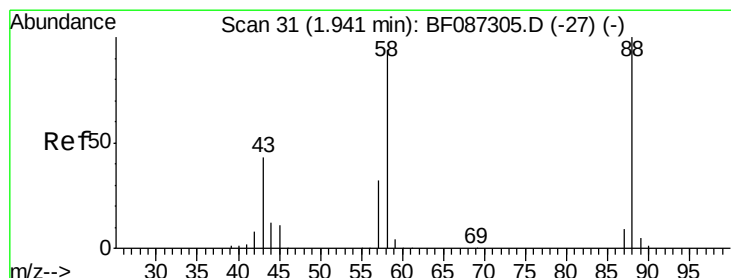
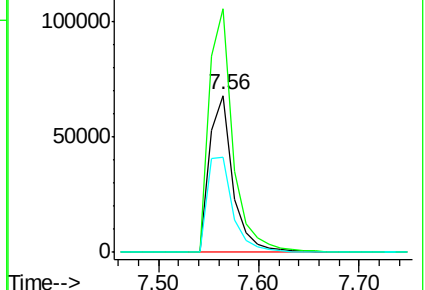
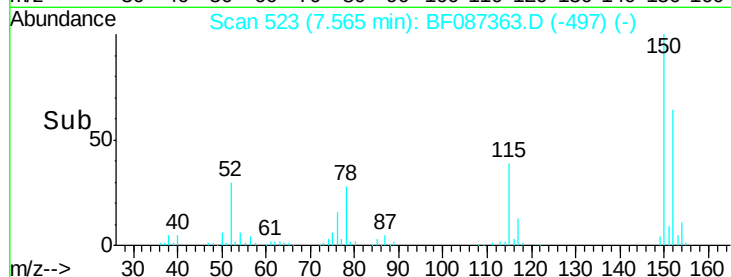
115 60.9 51.5 77.3



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



#2

1,4-Dioxane

Concen: 19.03 ng

RT: 1.67 min Scan# 7

Delta R.T. -0.19 min

Lab File: BF087363.D

Acq: 25 May 2016 5:18

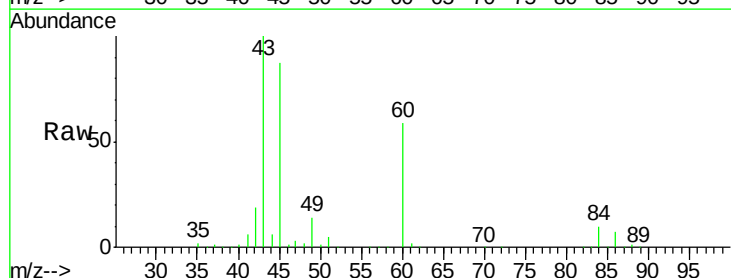
Tgt Ion: 88 Resp: 62869

Ion Ratio Lower Upper

88 100

58 0.0 59.6 89.4#

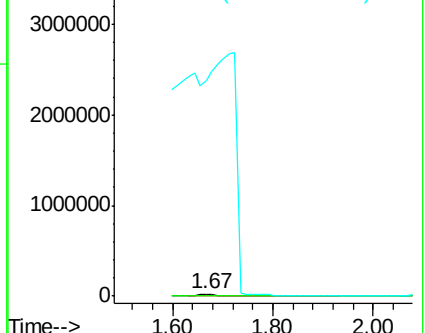
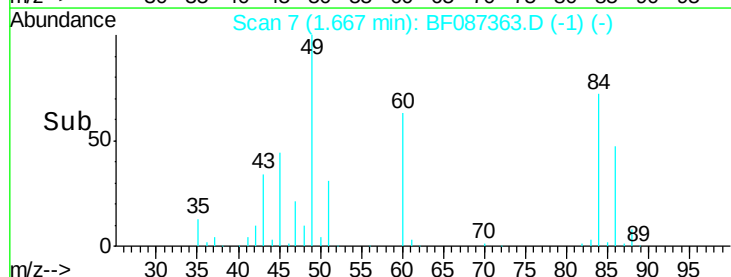
43 0.0 21.8 32.6#

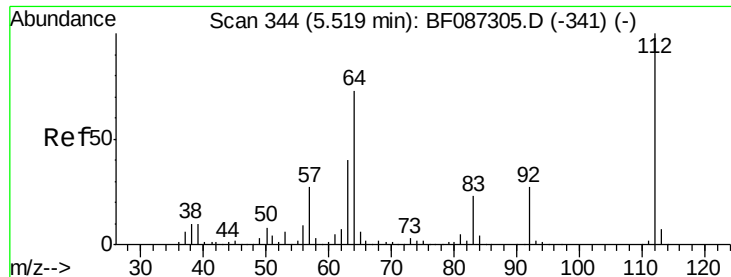


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 145.27 ng

RT: 5.48 min Scan# 341

Delta R.T. 0.02 min

Lab File: BF087363.D

Acq: 25 May 2016 5:18

Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1690(0-4)

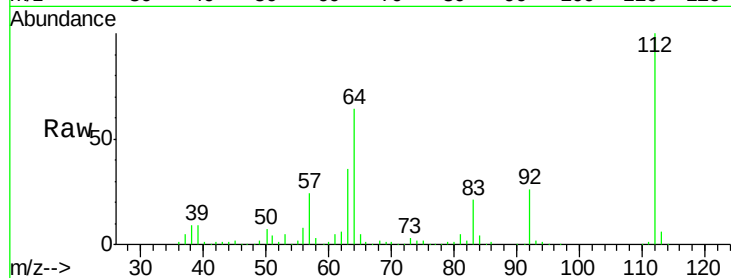
Tgt Ion: 112 Resp: 909473

Ion Ratio Lower Upper

112 100

64 64.2 52.1 78.1

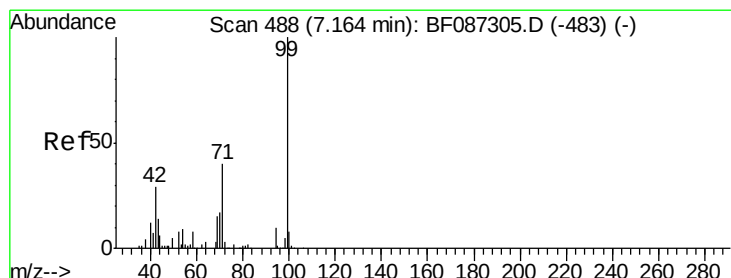
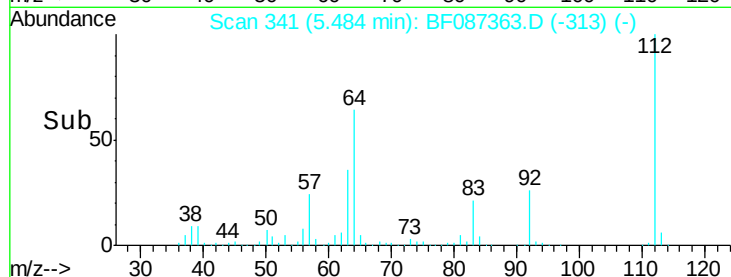
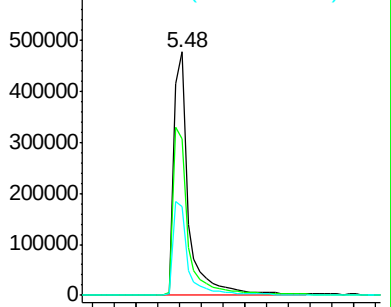
63 36.3 25.7 38.5



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: 128.37 ng

RT: 7.10 min Scan# 482

Delta R.T. -0.01 min

Lab File: BF087363.D

Acq: 25 May 2016 5:18

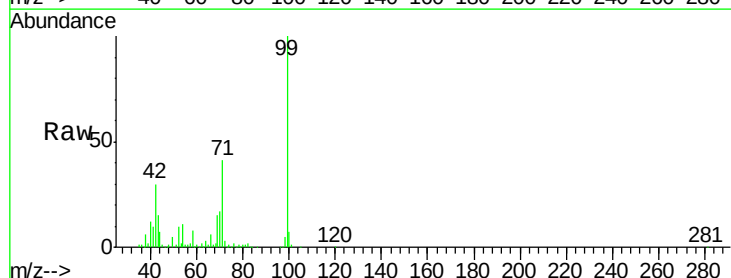
Tgt Ion: 99 Resp: 1085974

Ion Ratio Lower Upper

99 100

42 30.3 13.6 20.4#

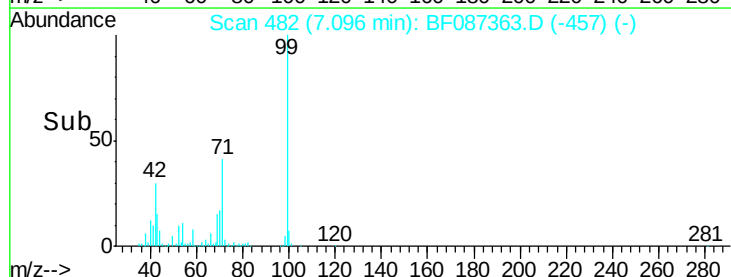
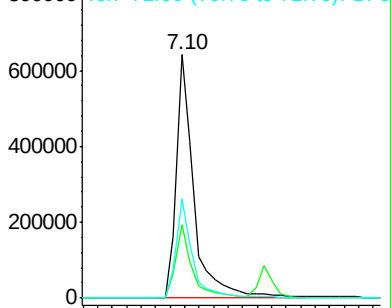
71 40.8 24.6 36.8#

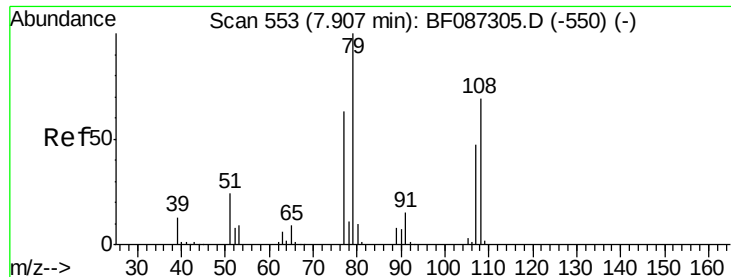


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#15

Benzyl Alcohol

Concen: 2.43 ng

RT: 7.79 min Scan# 543

Delta R.T. -0.07 min

Lab File: BF087363.D

Acq: 25 May 2016 5:18

Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1690(0-4)

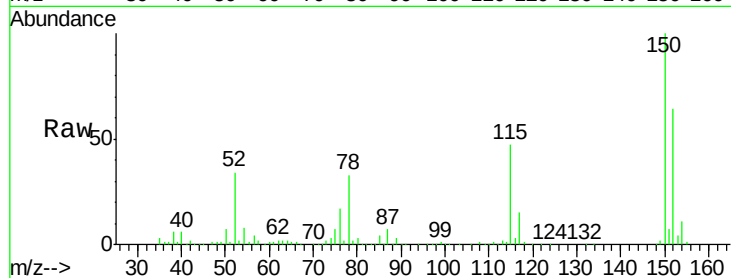
Tgt Ion: 79 Resp: 14976

Ion Ratio Lower Upper

79 100

108 30.5 68.4 102.6#

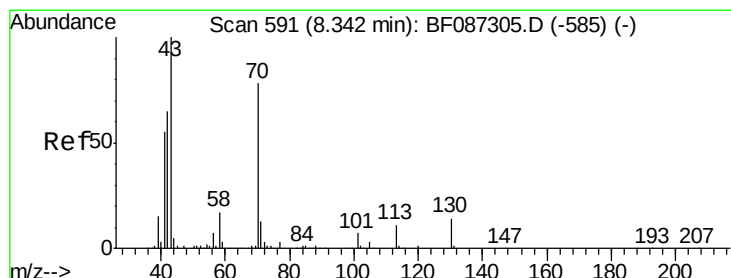
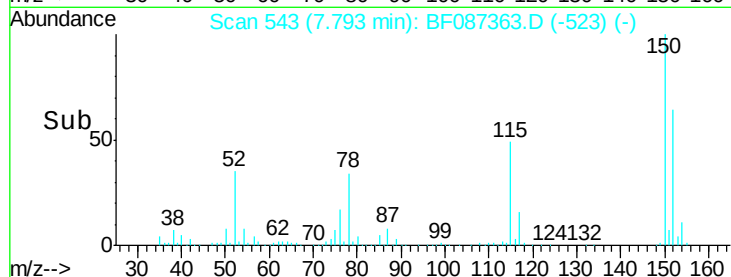
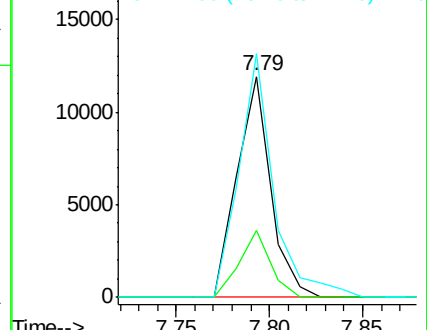
77 110.3 50.6 76.0#



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 18.00 ng

RT: 8.47 min Scan# 602

Delta R.T. 0.18 min

Lab File: BF087363.D

Acq: 25 May 2016 5:18

Tgt Ion: 70 Resp: 113538

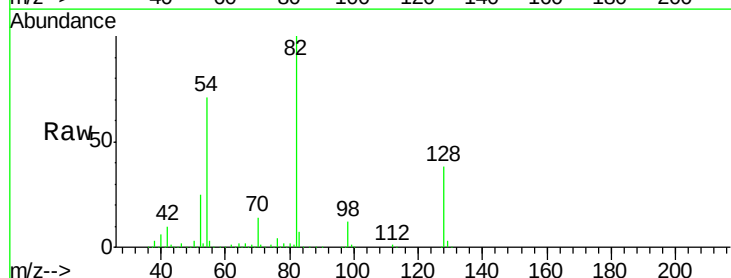
Ion Ratio Lower Upper

70 100

42 66.9 43.1 64.7#

101 0.0 8.1 12.1#

130 1.7 18.6 28.0#

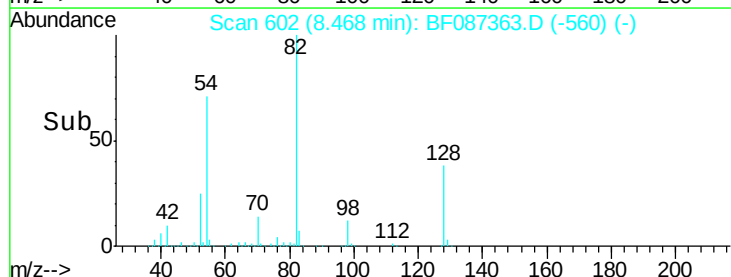
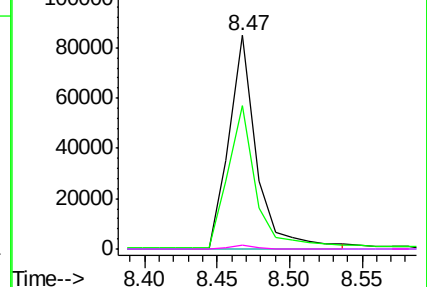


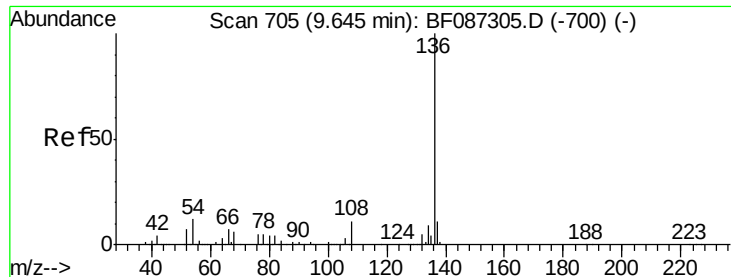
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

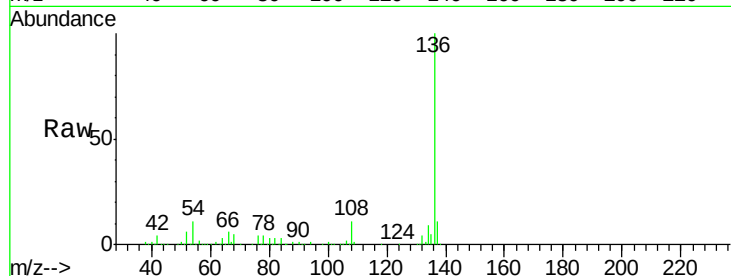




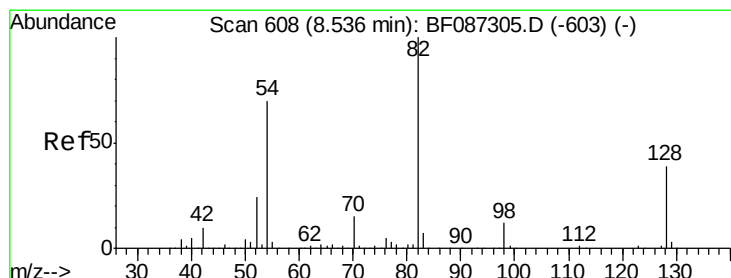
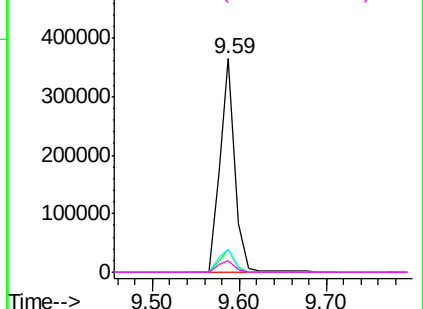
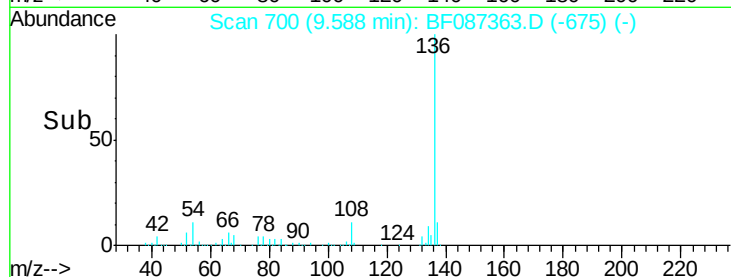
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 9.59 min Scan# 700  
Delta R.T. -0.01 min  
Lab File: BF087363.D  
Acq: 25 May 2016 5:18

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1690(0-4)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 442408 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 8.8   | 13.2   |
| 54       | 10.6  | 5.0   | 7.4#   |
| 68       | 5.4   | 4.4   | 6.6    |

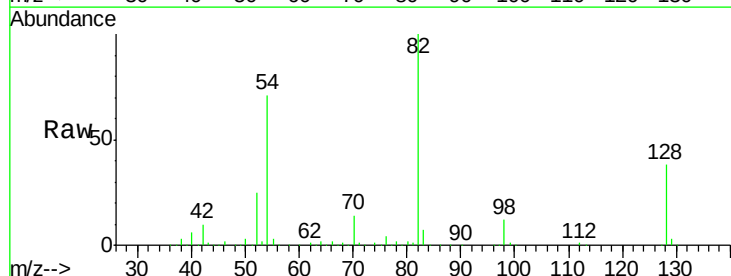


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

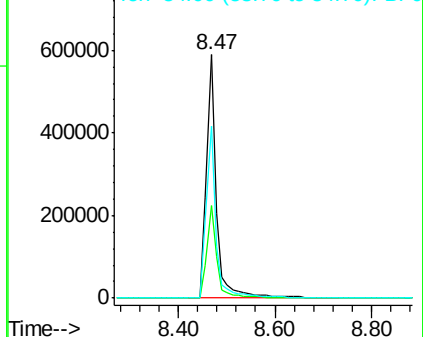
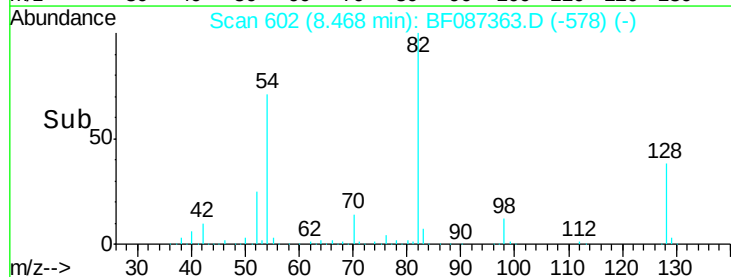


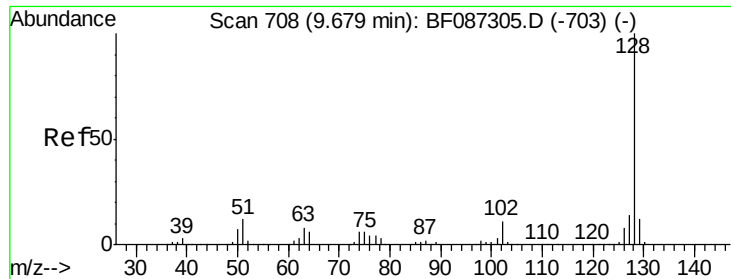
#23  
Nitrobenzene-d5  
Concen: 96.79 ng  
RT: 8.47 min Scan# 602  
Delta R.T. -0.02 min  
Lab File: BF087363.D  
Acq: 25 May 2016 5:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 849611 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 38.1  | 40.6  | 61.0#  |
| 54       | 70.6  | 38.1  | 57.1#  |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0

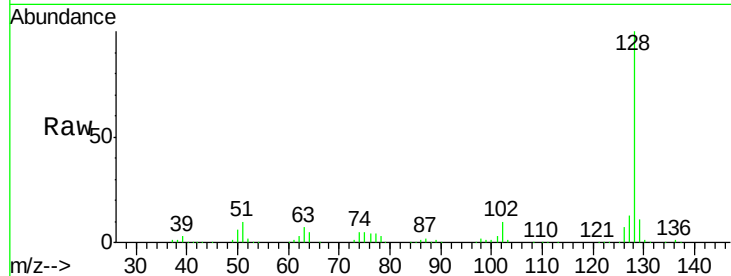




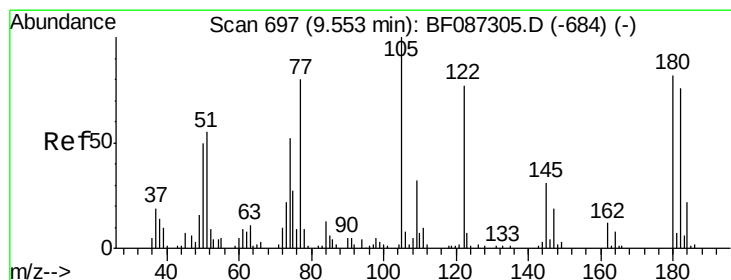
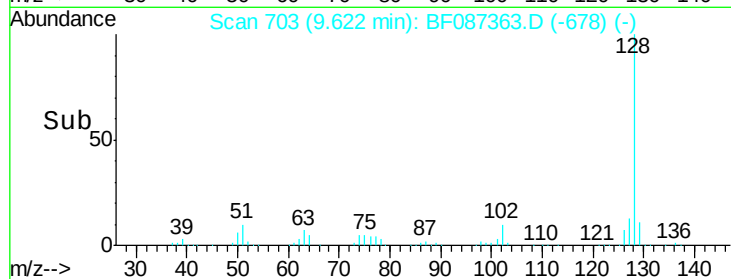
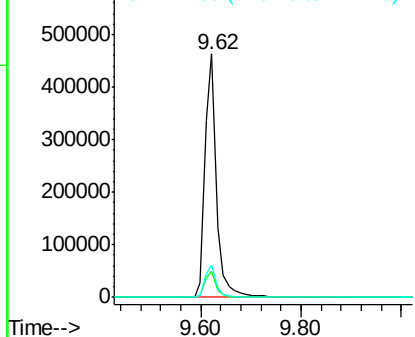
#31  
Naphthalene  
Concen: 33.18 ng  
RT: 9.62 min Scan# 703  
Delta R.T. -0.01 min  
Lab File: BF087363.D  
Acq: 25 May 2016 5:18

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1690(0-4)

Tgt Ion:128 Resp: 735497  
Ion Ratio Lower Upper  
128 100  
129 10.8 8.6 13.0  
127 13.3 10.8 16.2

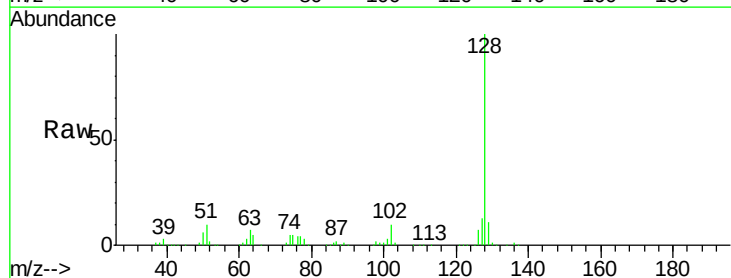


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

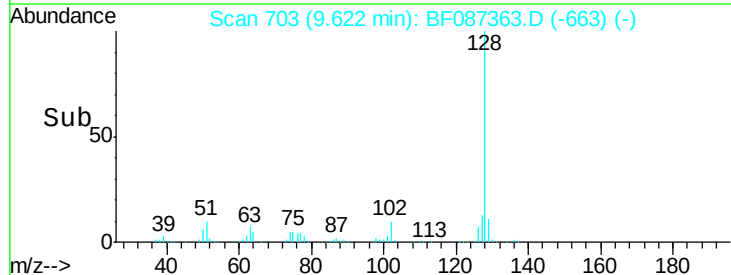
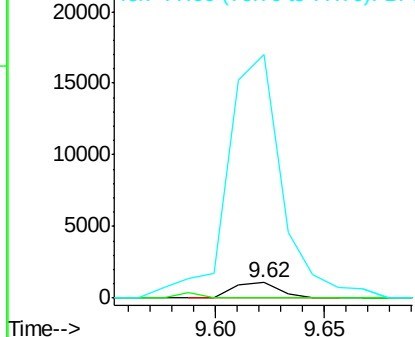


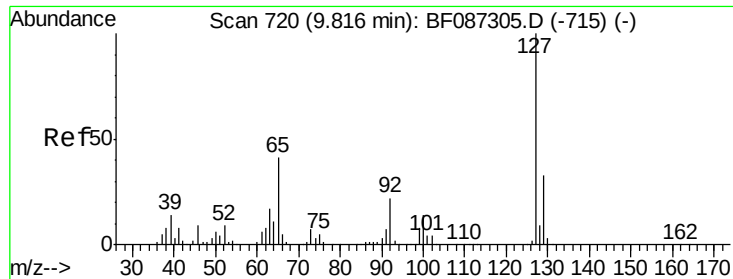
#32  
Benzoic acid  
Concen: 6.23 ng  
RT: 9.62 min Scan# 703  
Delta R.T. 0.16 min  
Lab File: BF087363.D  
Acq: 25 May 2016 5:18

Tgt Ion:122 Resp: 1580  
Ion Ratio Lower Upper  
122 100  
105 0.0 92.6 132.6#  
77 1558.2 60.0 100.0#



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF0

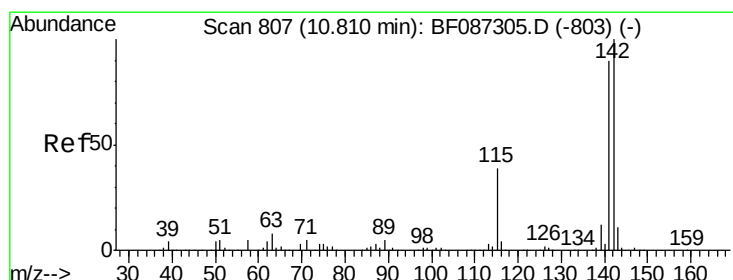
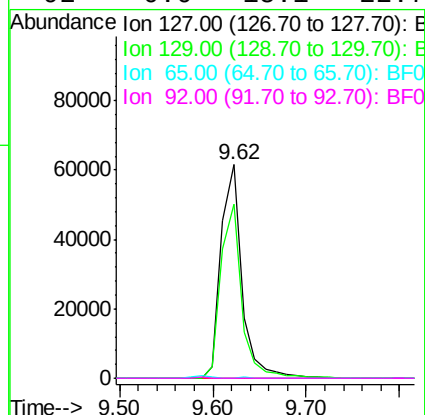
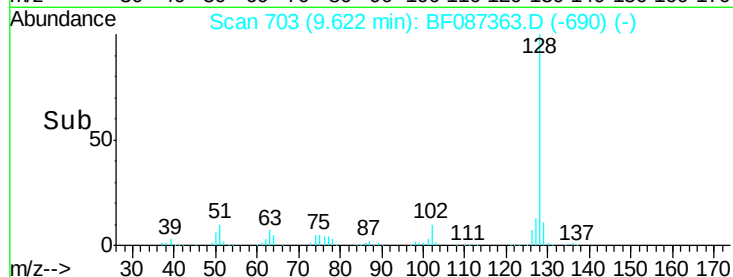
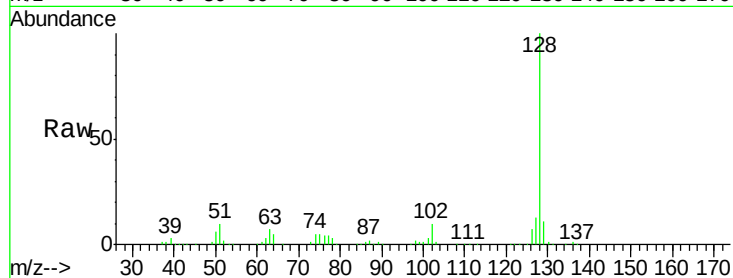




#33  
4-Chloroaniline  
Concen: 11.80 ng  
RT: 9.62 min Scan# 703  
Delta R.T. -0.15 min  
Lab File: BF087363.D  
Acq: 25 May 2016 5:18

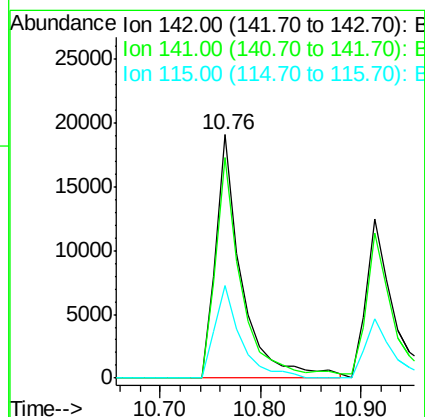
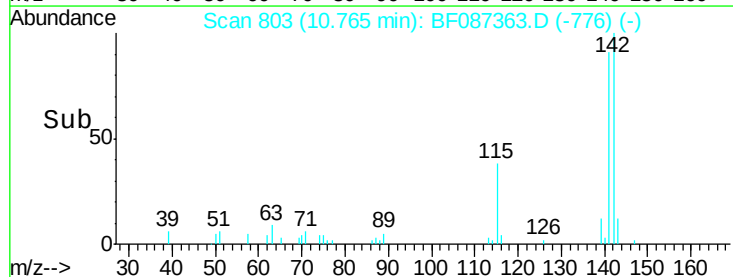
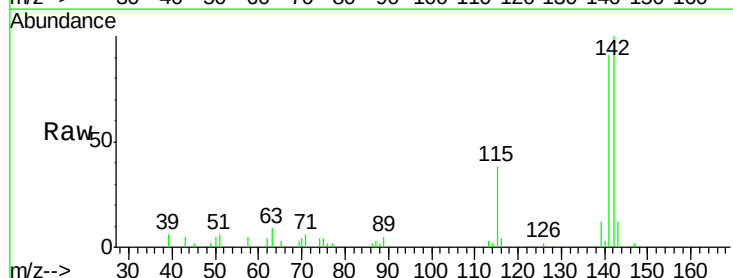
Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1690(0-4)

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 127   | Resp: | 96343 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 81.3  | 26.2  | 39.4# |
| 65       | 0.0   | 23.0  | 34.4# |
| 92       | 0.0   | 15.1  | 22.7# |

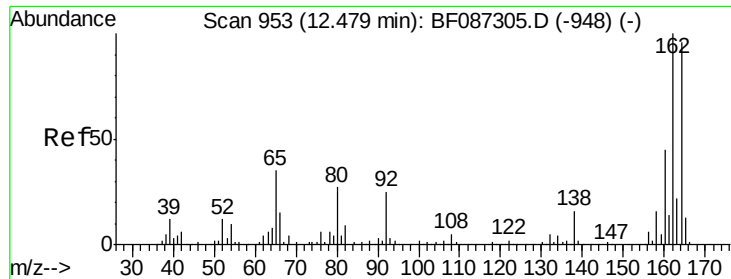


#37  
2-Methylnaphthalene  
Concen: 2.46 ng  
RT: 10.76 min Scan# 803  
Delta R.T. 0.01 min  
Lab File: BF087363.D  
Acq: 25 May 2016 5:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 34057 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 90.5  | 71.0  | 106.6 |
| 115      | 37.9  | 26.6  | 39.8  |



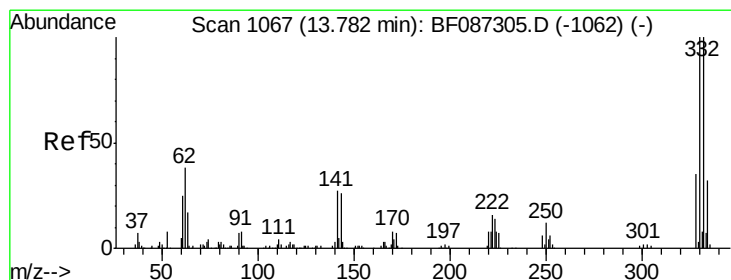
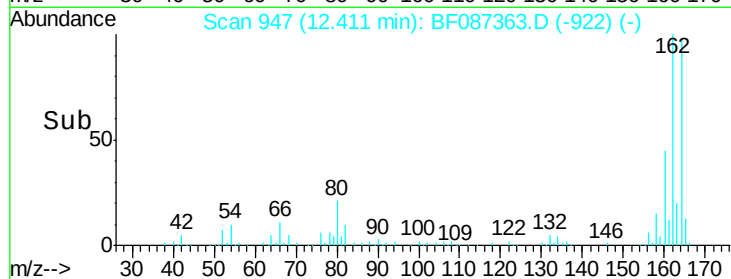
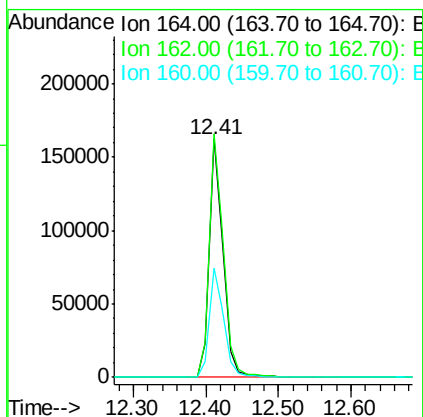
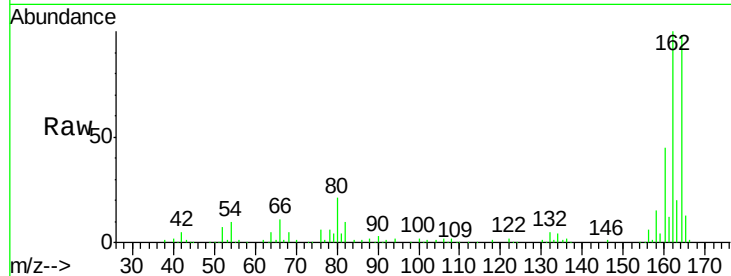




#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.41 min Scan# 947  
 Delta R.T. -0.01 min  
 Lab File: BF087363.D  
 Acq: 25 May 2016 5:18

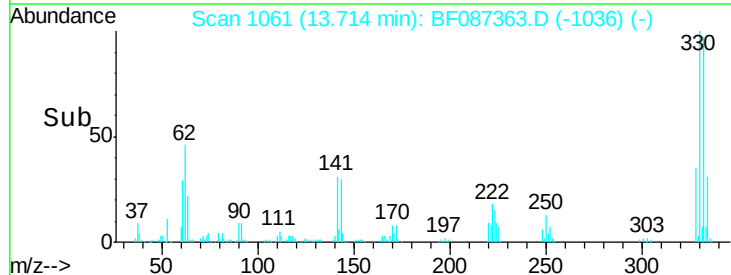
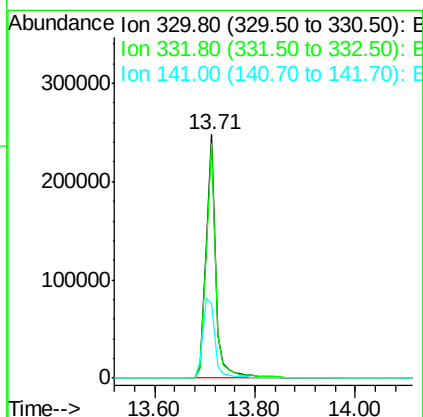
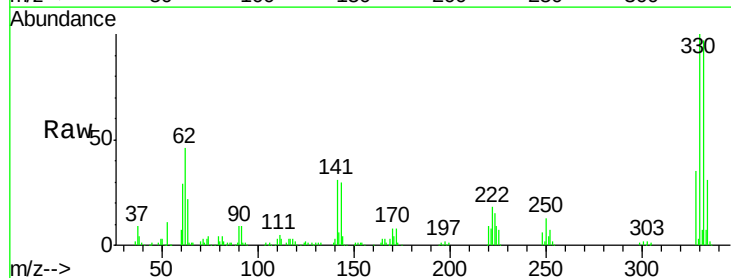
Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHS-STA-1690(0-4)

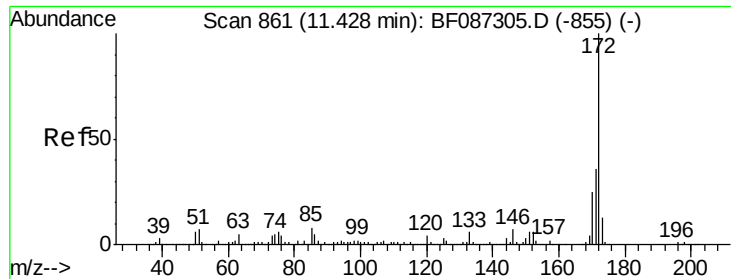
Tgt Ion:164 Resp: 214635  
 Ion Ratio Lower Upper  
 164 100  
 162 102.3 82.8 124.2  
 160 46.0 36.9 55.3



#41  
 2,4,6-Tribromophenol  
 Concen: 163.41 ng  
 RT: 13.71 min Scan# 1061  
 Delta R.T. -0.01 min  
 Lab File: BF087363.D  
 Acq: 25 May 2016 5:18

Tgt Ion:330 Resp: 337037  
 Ion Ratio Lower Upper  
 330 100  
 332 96.3 79.0 118.4  
 141 42.0 31.2 46.8

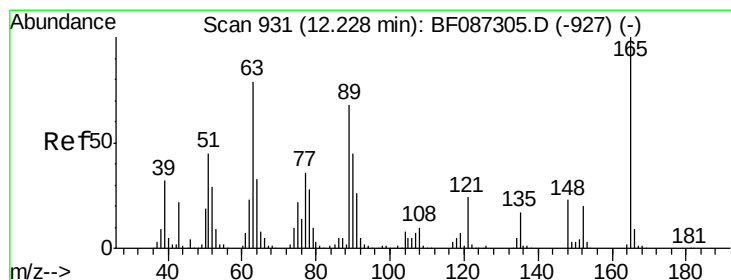
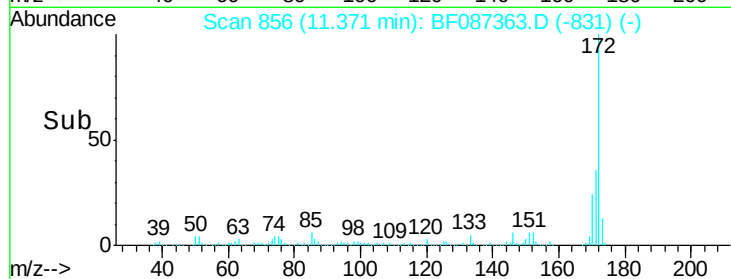
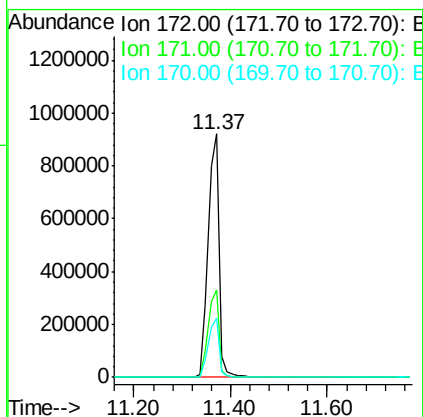
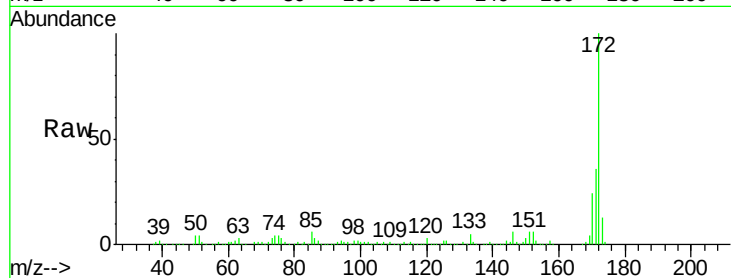




#44  
2-Fluorobiphenyl  
Concen: 97.06 ng  
RT: 11.37 min Scan# 856  
Delta R.T. -0.01 min  
Lab File: BF087363.D  
Acq: 25 May 2016 5:18

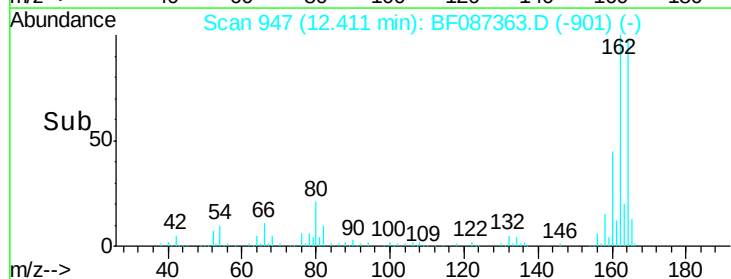
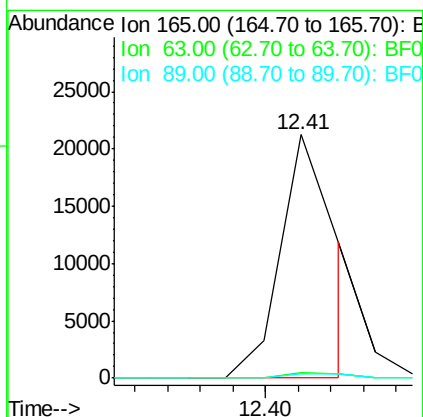
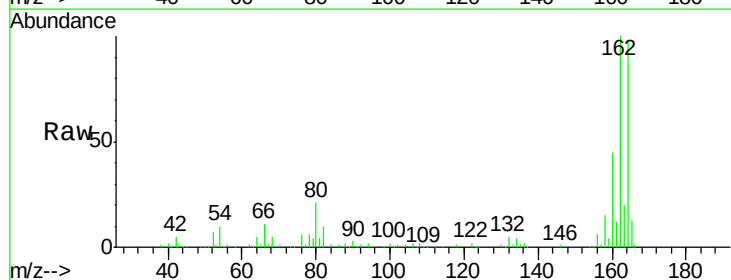
Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1690(0-4)

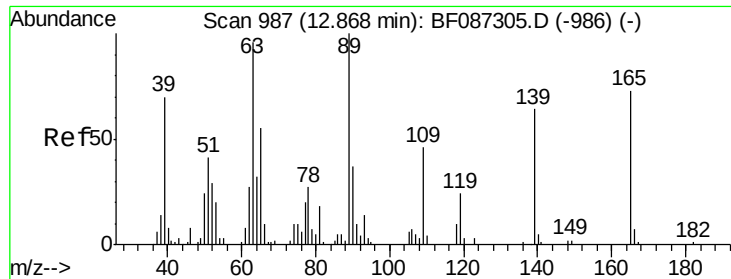
Tgt Ion:172 Resp: 1477724  
Ion Ratio Lower Upper  
172 100  
171 35.7 29.0 43.6  
170 24.3 19.8 29.8



#50  
2,6-Dinitrotoluene  
Concen: 7.21 ng  
RT: 12.41 min Scan# 947  
Delta R.T. 0.23 min  
Lab File: BF087363.D  
Acq: 25 May 2016 5:18

Tgt Ion:165 Resp: 24976  
Ion Ratio Lower Upper  
165 100  
63 2.1 51.8 77.8#  
89 2.0 50.7 76.1#

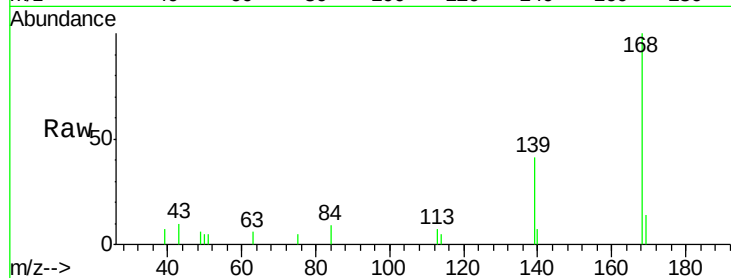




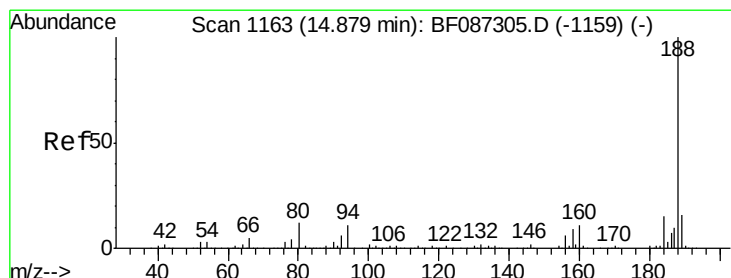
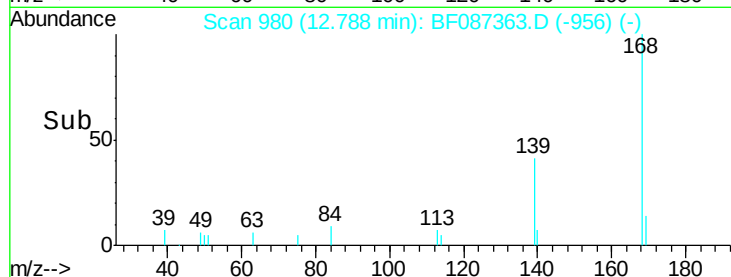
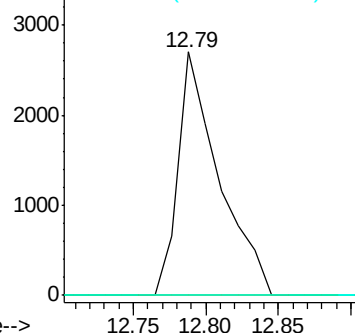
#55  
 4-Nitrophenol  
 Concen: 3.11 ng  
 RT: 12.79 min Scan# 980  
 Delta R.T. -0.02 min  
 Lab File: BF087363.D  
 Acq: 25 May 2016 5:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHS-STA-1690(0-4)

Tgt Ion:139 Resp: 5278  
 Ion Ratio Lower Upper  
 139 100  
 109 0.0 36.9 76.9#  
 65 0.0 64.0 104.0#

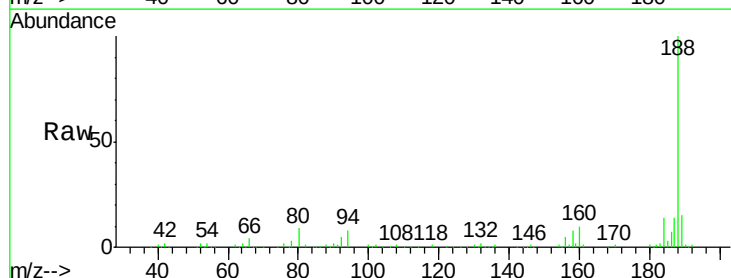


Abundance Ion 139.00 (138.70 to 139.70): E  
 Ion 109.00 (108.70 to 109.70): E  
 Ion 65.00 (64.70 to 65.70): BF0

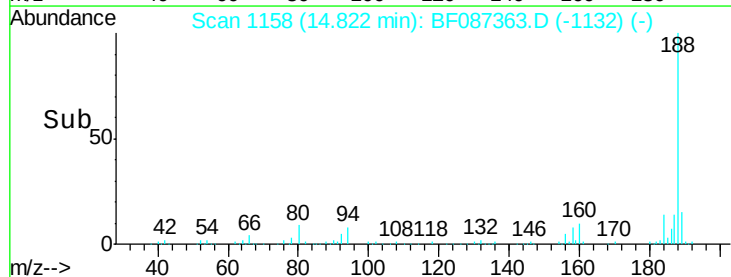
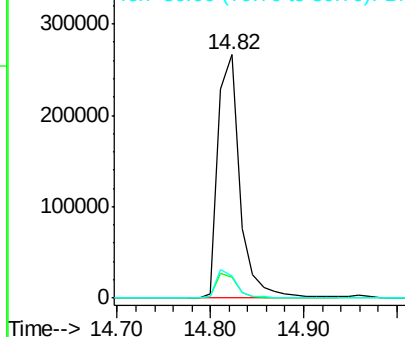


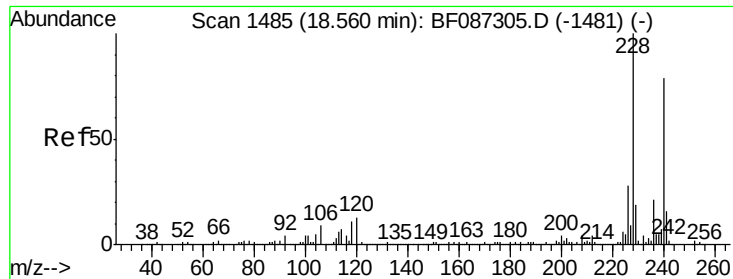
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 14.82 min Scan# 1158  
 Delta R.T. -0.00 min  
 Lab File: BF087363.D  
 Acq: 25 May 2016 5:18

Tgt Ion:188 Resp: 434627  
 Ion Ratio Lower Upper  
 188 100  
 94 8.4 6.8 10.2  
 80 8.9 7.1 10.7



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





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.50 min Scan# 1480

Delta R.T. -0.01 min

Lab File: BF087363.D

Acq: 25 May 2016 5:18

Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1690(0-4)

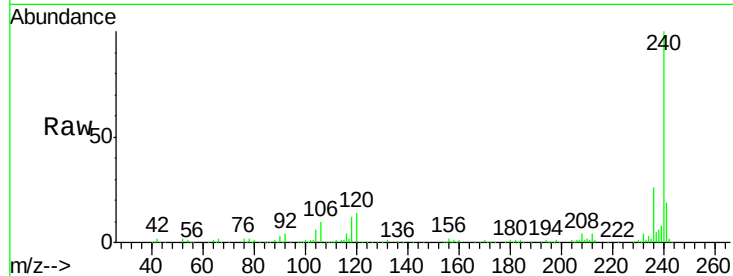
Tgt Ion:240 Resp: 367759

Ion Ratio Lower Upper

240 100

120 13.8 11.2 16.8

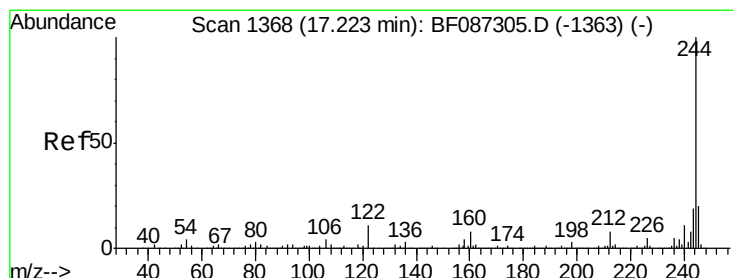
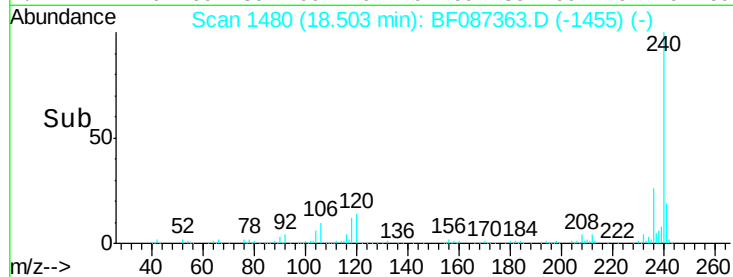
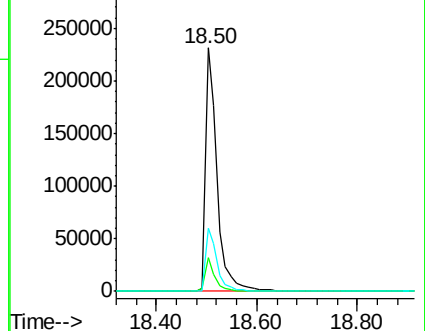
236 26.1 21.2 31.8



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: 84.51 ng

RT: 17.17 min Scan# 1363

Delta R.T. -0.01 min

Lab File: BF087363.D

Acq: 25 May 2016 5:18

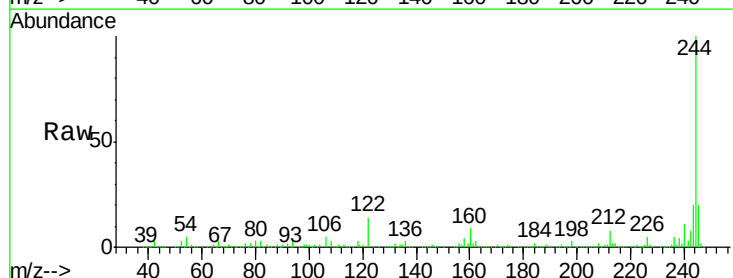
Tgt Ion:244 Resp: 1461818

Ion Ratio Lower Upper

244 100

212 7.9 6.2 9.2

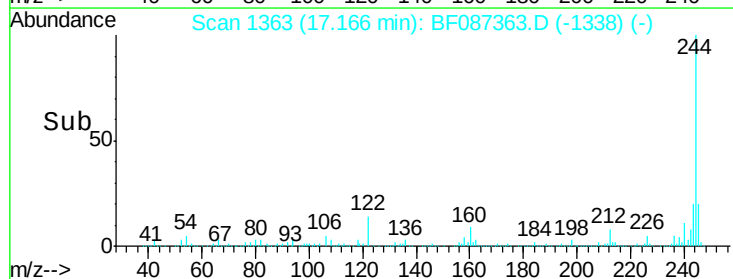
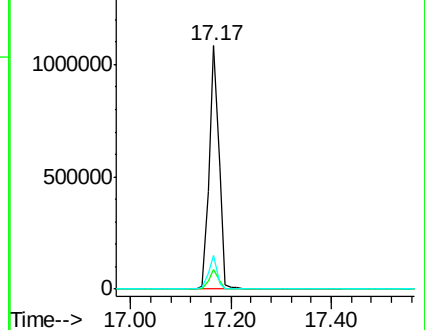
122 13.7 12.0 18.0

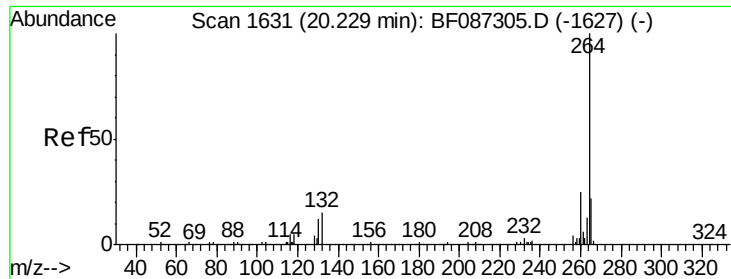


Abundance Ion 244.00 (243.70 to 244.70): E

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: 20.17 min Scan# 1626  
Delta R.T. -0.01 min  
Lab File: BF087363.D  
Acq: 25 May 2016 5:18

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1690(0-4)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 266462 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 24.8  | 19.5  | 29.3   |
| 265      | 21.5  | 17.3  | 25.9   |

