

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050216\  
 Data File : BF086632.D  
 Acq On : 2 May 2016 22:16  
 Operator : UM/SJ  
 Sample : H2762-10DL 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TEC-B1COMPDL

Quant Time: May 03 01:19:15 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF042716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 27 14:20:52 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.75  | 152  | 169013   | 20.00 | ng    | -0.06    |
| 21) Naphthalene-d8        | 8.04  | 136  | 760025   | 20.00 | ng    | -0.06    |
| 38) Acenaphthene-d10      | 9.79  | 164  | 376007   | 20.00 | ng    | -0.06    |
| 63) Phenanthrene-d10      | 11.26 | 188  | 714236   | 20.00 | ng    | -0.06    |
| 75) Chrysene-d12          | 13.89 | 240  | 616789   | 20.00 | ng    | -0.07    |
| 86) Perylene-d12          | 15.29 | 264  | 432171   | 20.00 | ng    | -0.07    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.34  | 112  | 297560   | 30.37 | ng    | -0.04    |
| 7) Phenol-d6                | 6.38  | 99   | 399241   | 29.19 | ng    | -0.06    |
| 23) Nitrobenzene-d5         | 7.32  | 82   | 252460   | 17.90 | ng    | -0.06    |
| 41) 2,4,6-Tribromophenol    | 10.58 | 330  | 119889   | 30.23 | ng    | -0.06    |
| 44) 2-Fluorobiphenyl        | 9.12  | 172  | 544163   | 17.77 | ng    | -0.06    |
| 78) Terphenyl-d14           | 12.85 | 244  | 567555   | 20.27 | ng    | -0.06    |

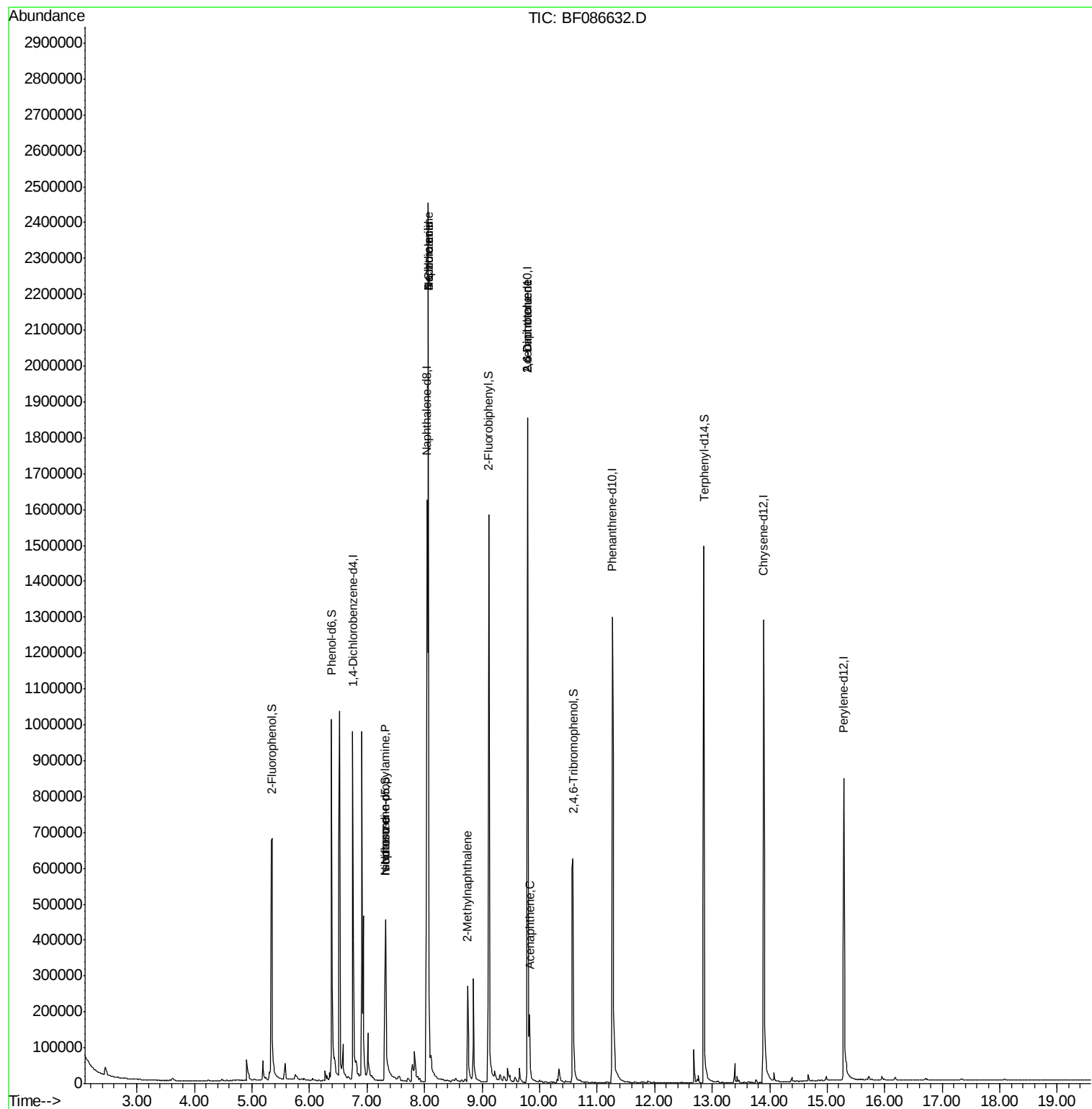
| Target Compounds               | R.T. | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|------|------|----------|-------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.32 | 70   | 30988    | 3.43  | ng    | # 77   |
| 25) Isophorone                 | 7.32 | 82   | 165032   | 6.08  | ng    | # 68   |
| 31) Naphthalene                | 8.06 | 128  | 1285257  | 33.23 | ng    | 99     |
| 32) Benzoic acid               | 8.06 | 122  | 2788     | 9.10  | ng    | # 1    |
| 33) 4-Chloroaniline            | 8.06 | 127  | 172915   | 11.94 | ng    | # 35   |
| 37) 2-Methylnaphthalene        | 8.75 | 142  | 103112   | 4.52  | ng    | 97     |
| 50) 2,6-Dinitrotoluene         | 9.79 | 165  | 47242    | 8.08  | ng    | # 21   |
| 51) Acenaphthene               | 9.82 | 154  | 48810    | 2.03  | ng    | 97     |
| 56) 2,4-Dinitrotoluene         | 9.79 | 165  | 48120    | 6.45  | ng    | # 16   |

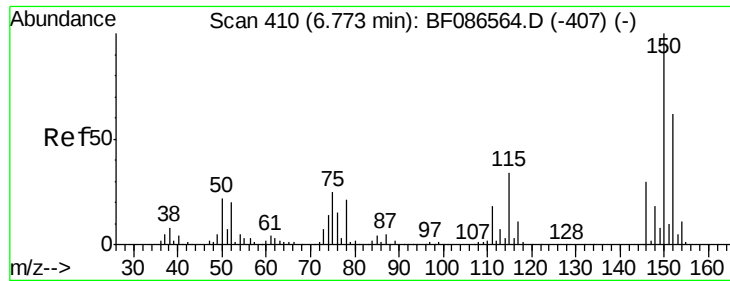
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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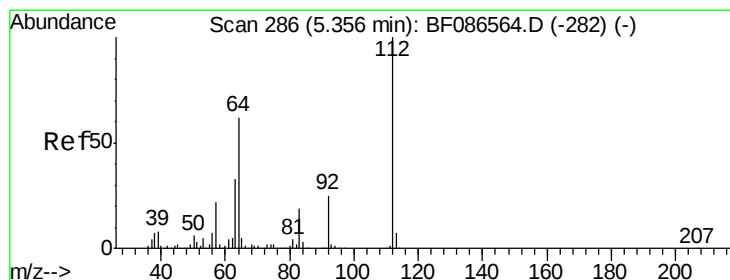
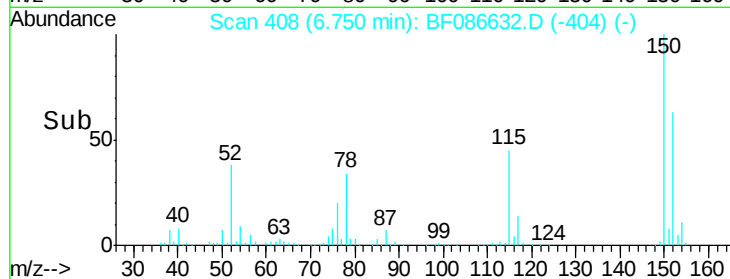
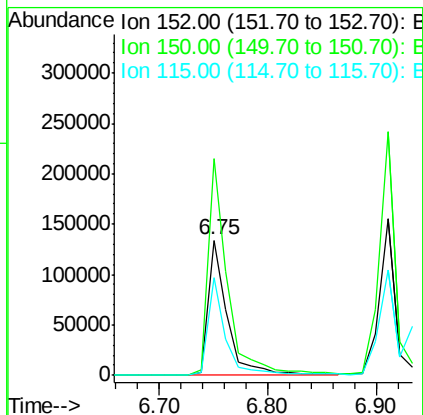
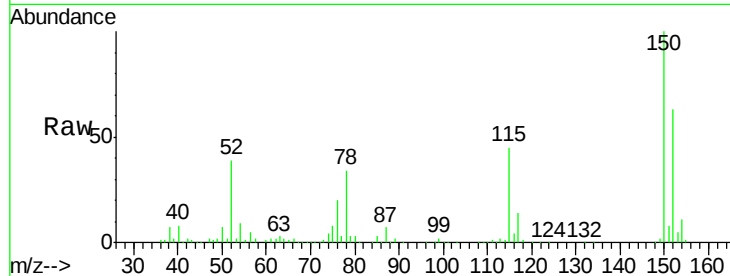


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.75 min Scan# 408  
Delta R.T. -0.06 min  
Lab File: BF086632.D  
Acq: 2 May 2016 22:16

Instrument :  
BNA\_F  
ClientSampleId :  
TEC-B1COMPDL

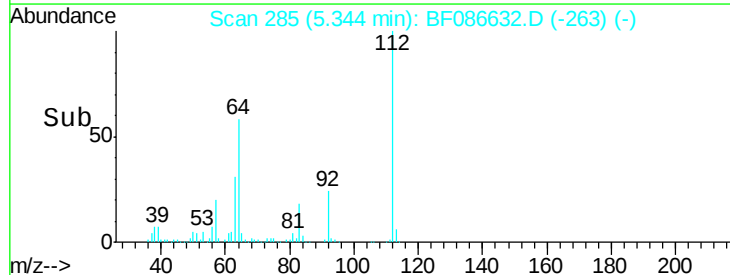
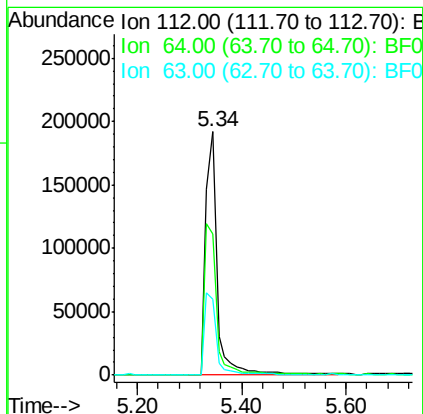
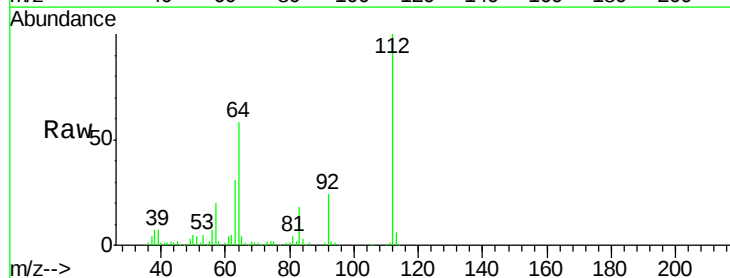
Tgt Ion:152 Resp: 169013  
Ion Ratio Lower Upper  
152 100  
150 159.8 125.8 188.6  
115 71.9 51.5 77.3

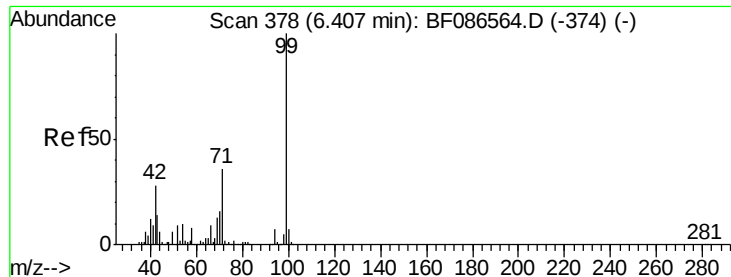


#5

2-Fluorophenol  
Concen: 30.37 ng  
RT: 5.34 min Scan# 285  
Delta R.T. -0.04 min  
Lab File: BF086632.D  
Acq: 2 May 2016 22:16

Tgt Ion:112 Resp: 297560  
Ion Ratio Lower Upper  
112 100  
64 57.9 52.1 78.1  
63 31.3 25.7 38.5





#7

Phenol-d6

Concen: 29.19 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.06 min

Lab File: BF086632.D

Acq: 2 May 2016 22:16

Instrument :

BNA\_F

ClientSampleId :

TEC-B1COMPDL

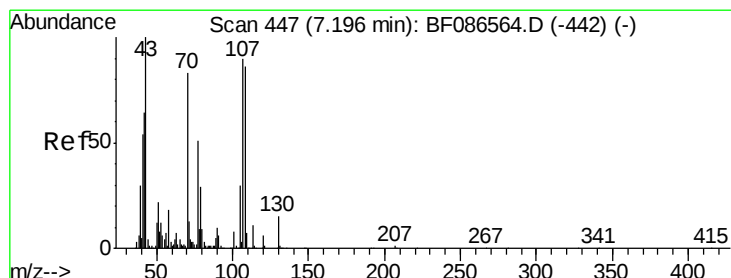
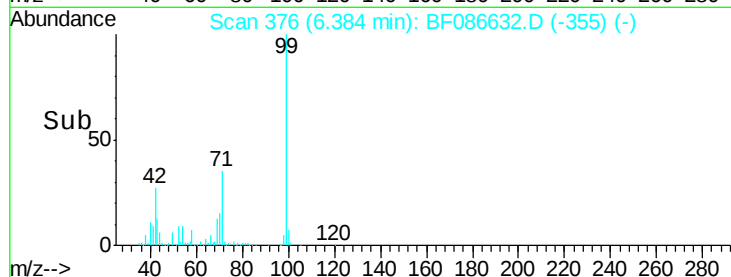
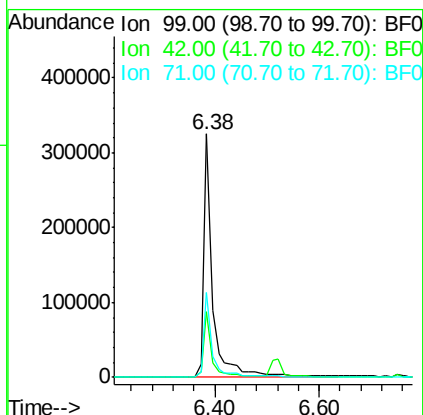
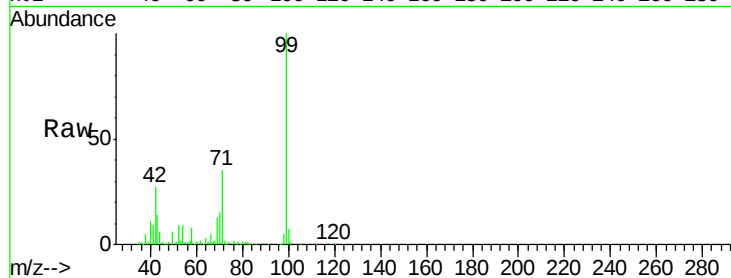
Tgt Ion: 99 Resp: 399241

Ion Ratio Lower Upper

99 100

42 26.7 13.6 20.4#

71 34.8 24.6 36.8



#19

n-Nitroso-di-n-propylamine

Concen: 3.43 ng

RT: 7.32 min Scan# 458

Delta R.T. 0.09 min

Lab File: BF086632.D

Acq: 2 May 2016 22:16

Tgt Ion: 70 Resp: 30988

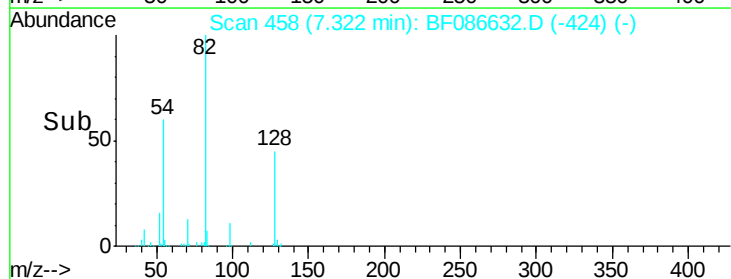
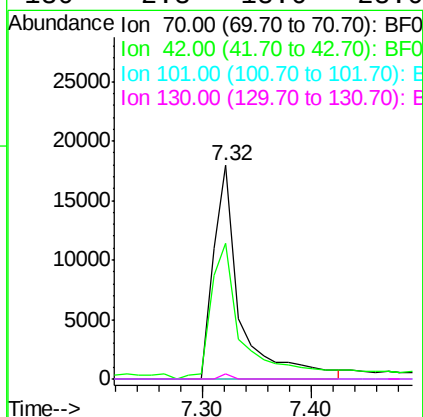
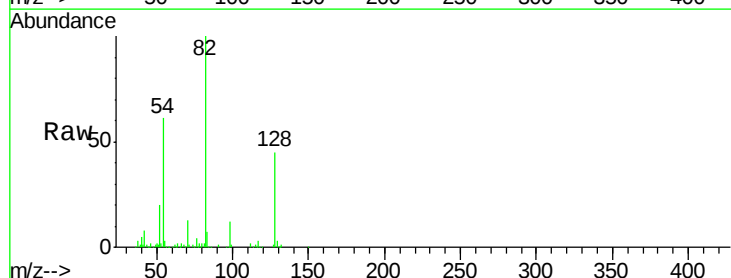
Ion Ratio Lower Upper

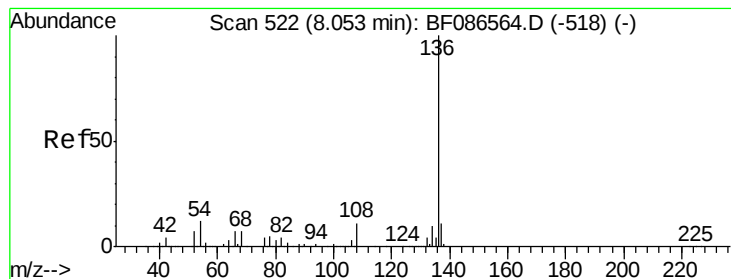
70 100

42 63.7 43.1 64.7

101 0.0 8.1 12.1#

130 2.3 18.6 28.0#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.04 min Scan# 521

Delta R.T. -0.06 min

Lab File: BF086632.D

Acq: 2 May 2016 22:16

Instrument :

BNA\_F

ClientSampleId :

TEC-B1COMPDL

Tgt Ion:136 Resp: 760025

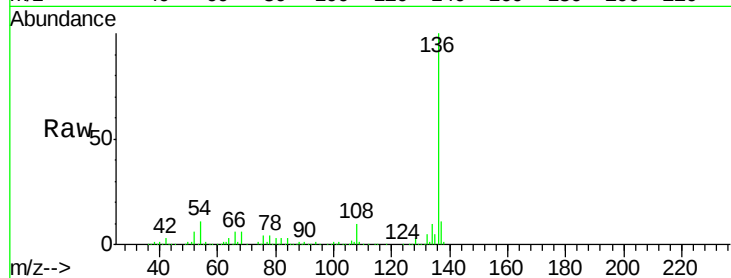
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 10.9 5.0 7.4#

68 6.5 4.4 6.6

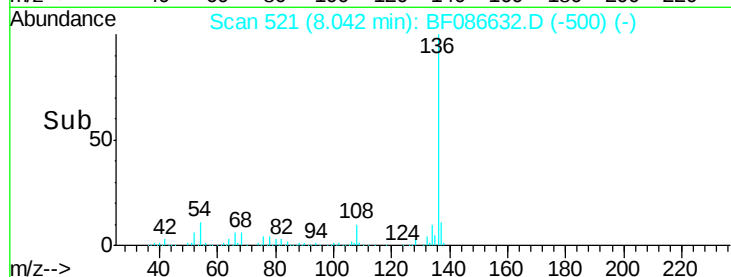


Abundance Ion 136.00 (135.70 to 136.70): E

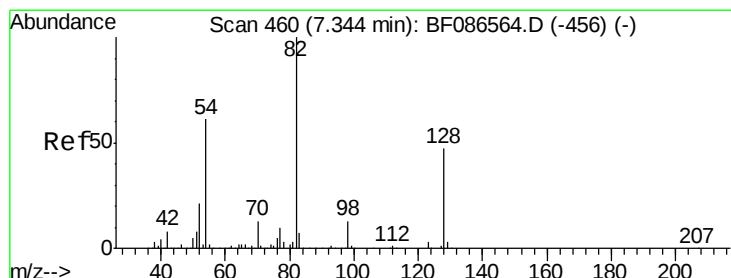
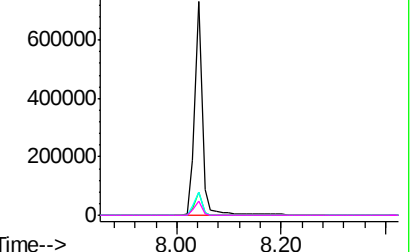
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 17.90 ng

RT: 7.32 min Scan# 458

Delta R.T. -0.06 min

Lab File: BF086632.D

Acq: 2 May 2016 22:16

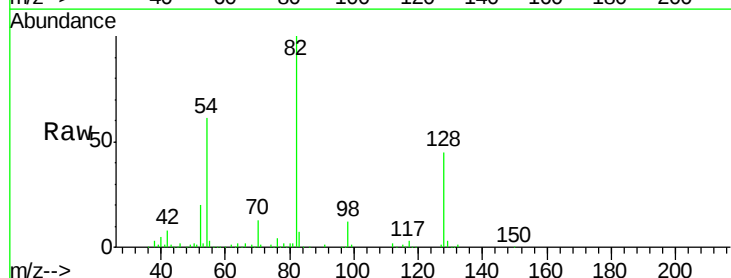
Tgt Ion: 82 Resp: 252460

Ion Ratio Lower Upper

82 100

128 44.9 40.6 61.0

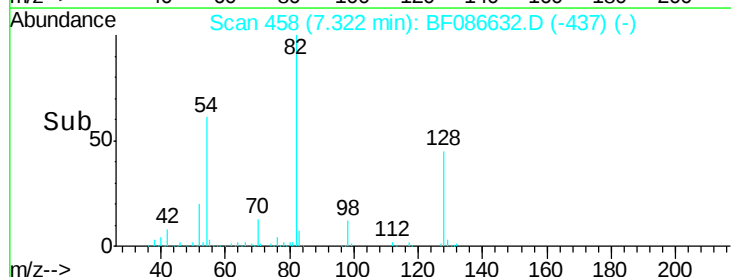
54 60.7 38.1 57.1#



Abundance Ion 82.00 (81.70 to 82.70): BF0

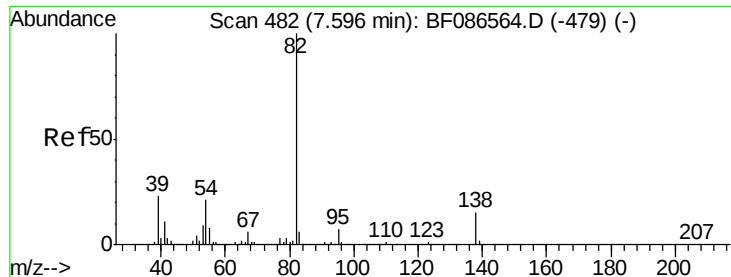
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->





#25

Isophorone

Concen: 6.08 ng

RT: 7.32 min Scan# 458

Delta R.T. -0.32 min

Lab File: BF086632.D

Acq: 2 May 2016 22:16

Instrument :

BNA\_F

ClientSampleId :

TEC-B1COMPDL

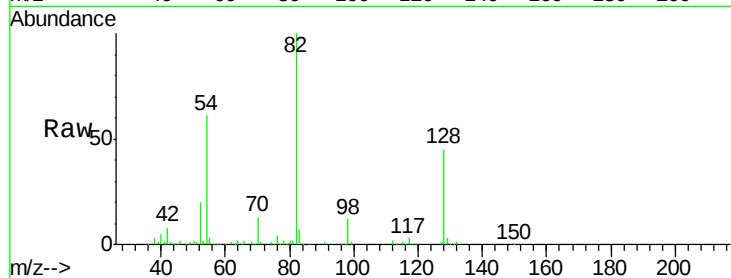
Tgt Ion: 82 Resp: 165032

Ion Ratio Lower Upper

82 100

95 0.0 5.1 7.7#

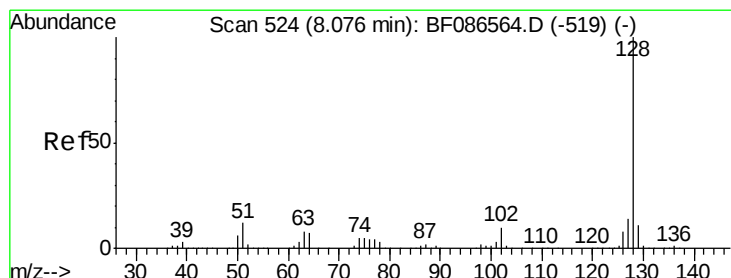
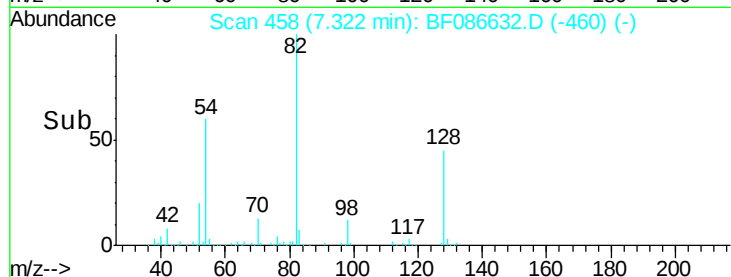
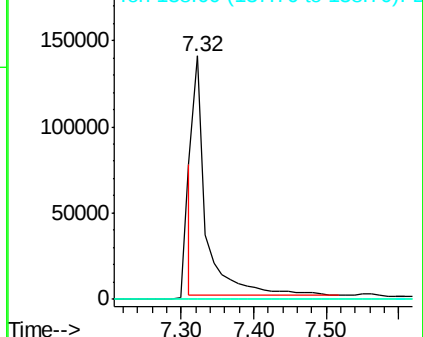
138 0.0 12.4 18.6#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): E



#31

Naphthalene

Concen: 33.23 ng

RT: 8.06 min Scan# 523

Delta R.T. -0.05 min

Lab File: BF086632.D

Acq: 2 May 2016 22:16

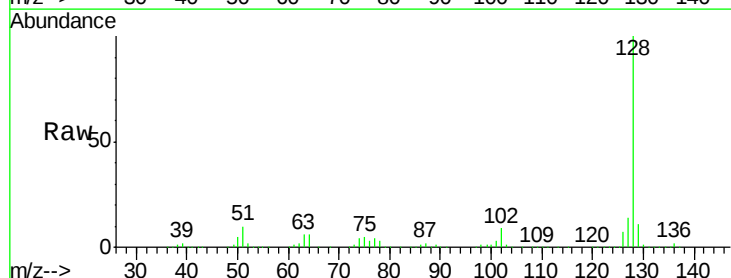
Tgt Ion: 128 Resp: 1285257

Ion Ratio Lower Upper

128 100

129 11.2 8.6 13.0

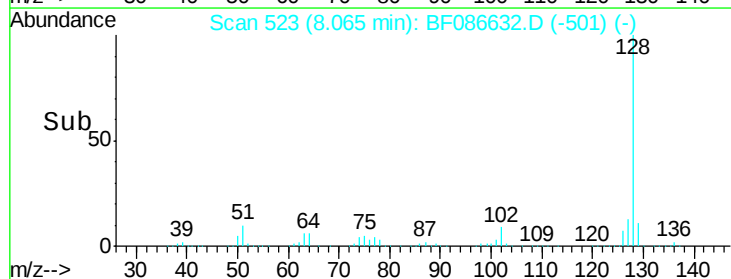
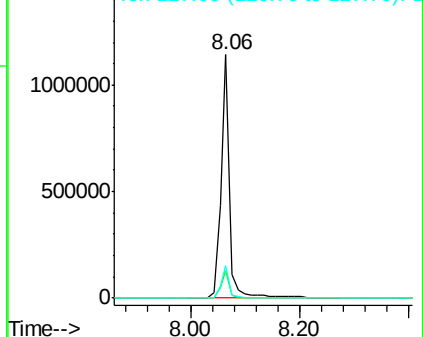
127 13.6 10.8 16.2

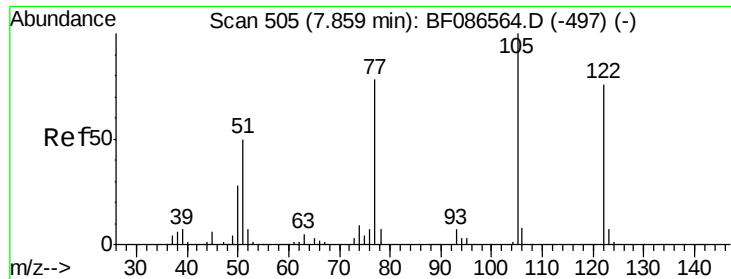


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

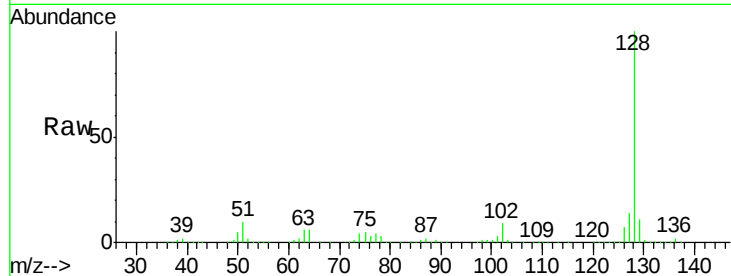




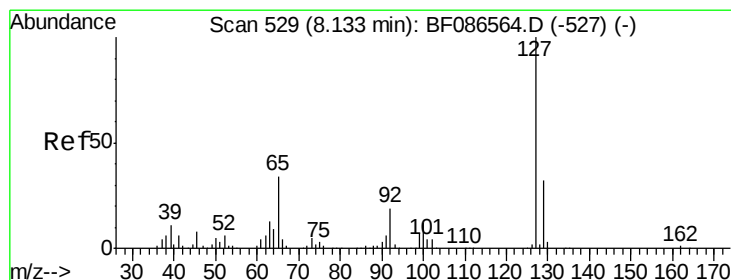
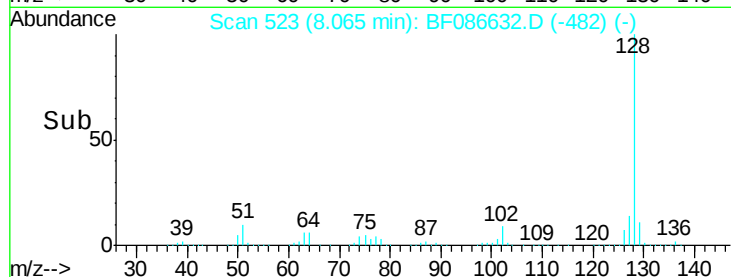
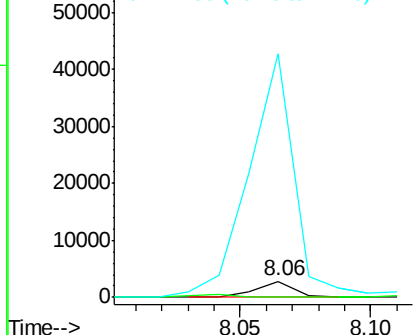
#32  
Benzoic acid  
Concen: 9.10 ng  
RT: 8.06 min Scan# 523  
Delta R.T. 0.17 min  
Lab File: BF086632.D  
Acq: 2 May 2016 22:16

Instrument :  
BNA\_F  
ClientSampleId :  
TEC-B1COMPDL

Tgt Ion:122 Resp: 2788  
Ion Ratio Lower Upper  
122 100  
105 0.0 92.6 132.6#  
77 1495.3 60.0 100.0#

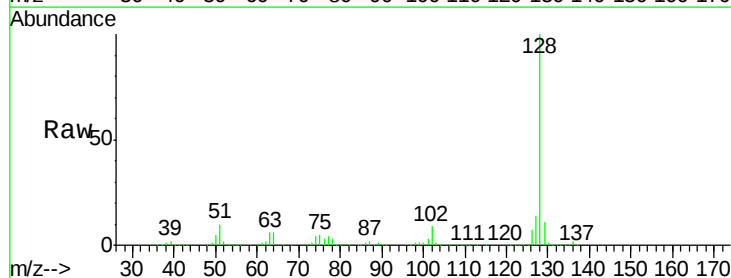


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF0

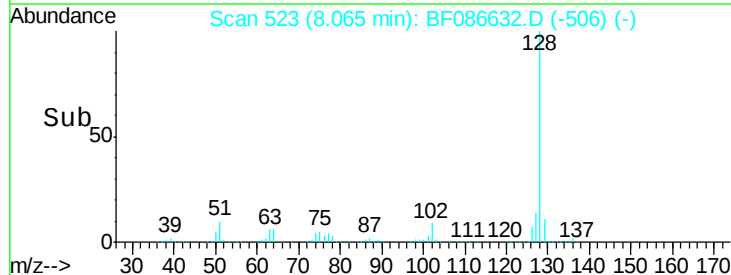
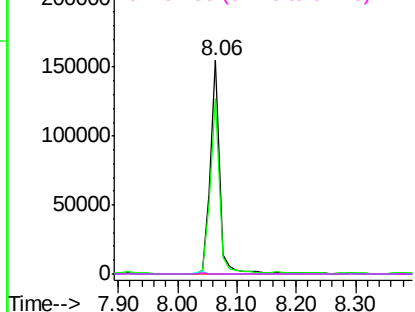


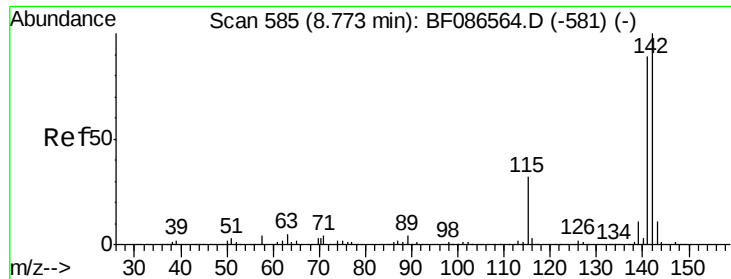
#33  
4-Chloroaniline  
Concen: 11.94 ng  
RT: 8.06 min Scan# 523  
Delta R.T. -0.10 min  
Lab File: BF086632.D  
Acq: 2 May 2016 22:16

Tgt Ion:127 Resp: 172915  
Ion Ratio Lower Upper  
127 100  
129 82.3 26.2 39.4#  
65 0.0 23.0 34.4#  
92 0.0 15.1 22.7#



Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 92.00 (91.70 to 92.70): BF0

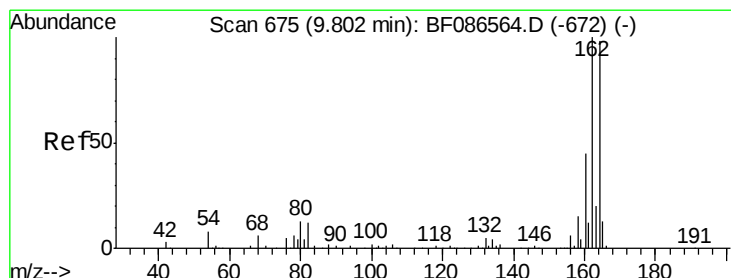
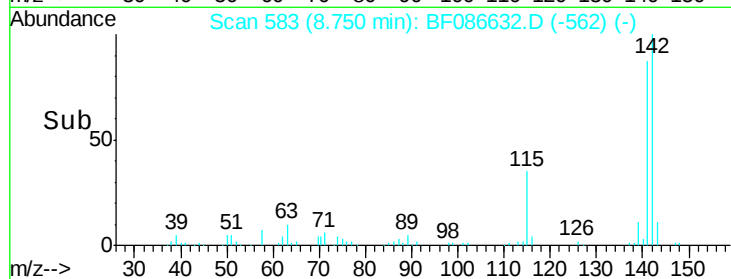
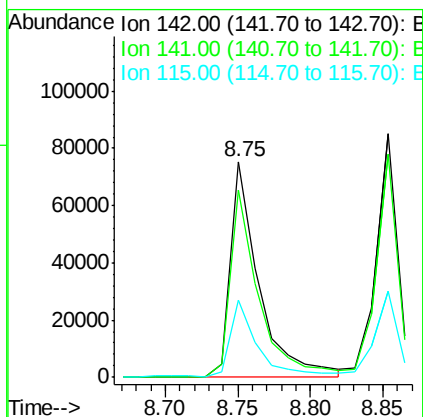
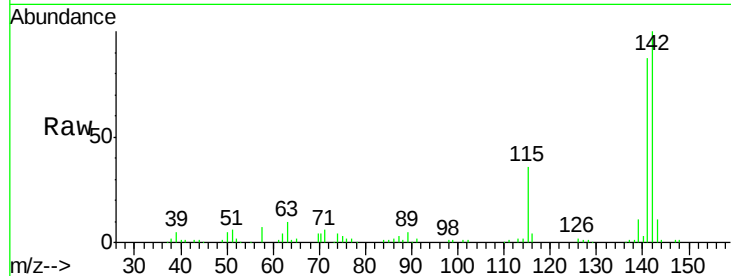




#37  
 2-Methylnaphthalene  
 Concen: 4.52 ng  
 RT: 8.75 min Scan# 583  
 Delta R.T. -0.06 min  
 Lab File: BF086632.D  
 Acq: 2 May 2016 22:16

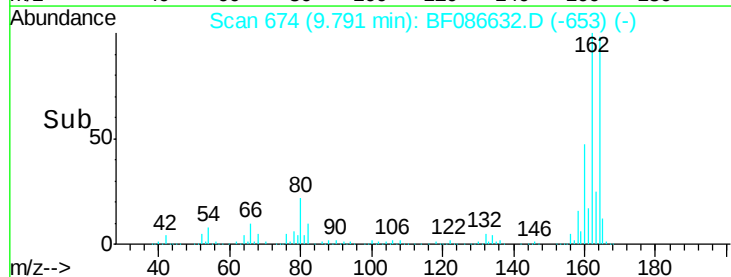
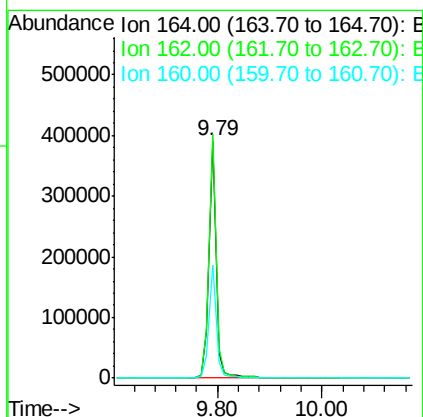
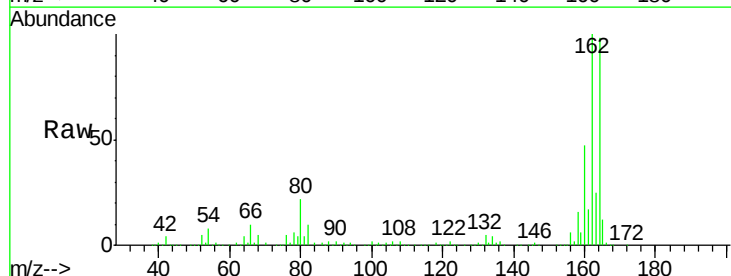
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TEC-B1COMPDL

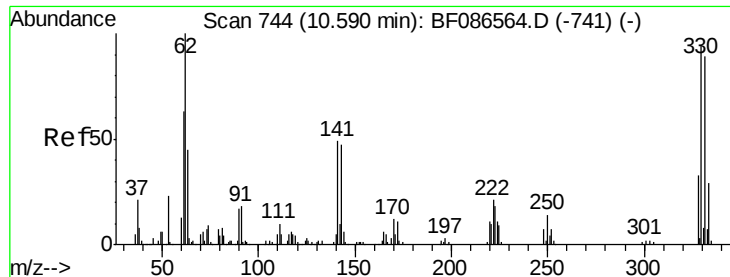
Tgt Ion:142 Resp: 103112  
 Ion Ratio Lower Upper  
 142 100  
 141 87.0 71.0 106.6  
 115 35.9 26.6 39.8



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.79 min Scan# 674  
 Delta R.T. -0.06 min  
 Lab File: BF086632.D  
 Acq: 2 May 2016 22:16

Tgt Ion:164 Resp: 376007  
 Ion Ratio Lower Upper  
 164 100  
 162 102.5 82.8 124.2  
 160 47.8 36.9 55.3

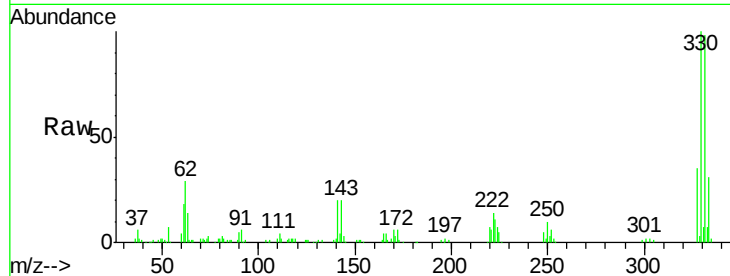




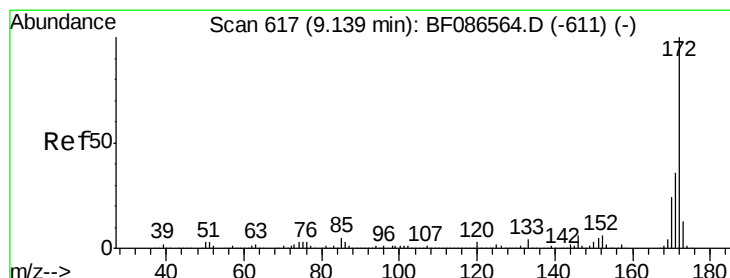
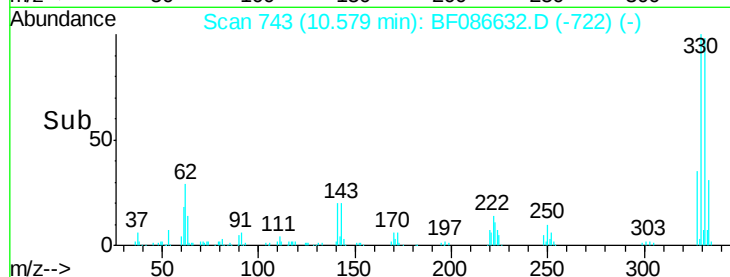
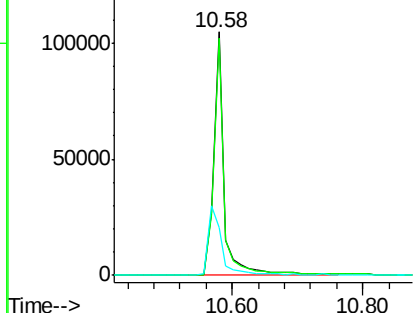
#41  
 2,4,6-Tribromophenol  
 Concen: 30.23 ng  
 RT: 10.58 min Scan# 743  
 Delta R.T. -0.06 min  
 Lab File: BF086632.D  
 Acq: 2 May 2016 22:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TEC-B1COMPDL

Tgt Ion:330 Resp: 119889  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 79.0 118.4  
 141 37.2 31.2 46.8

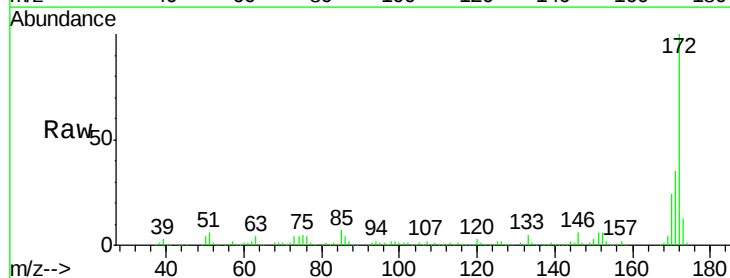


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

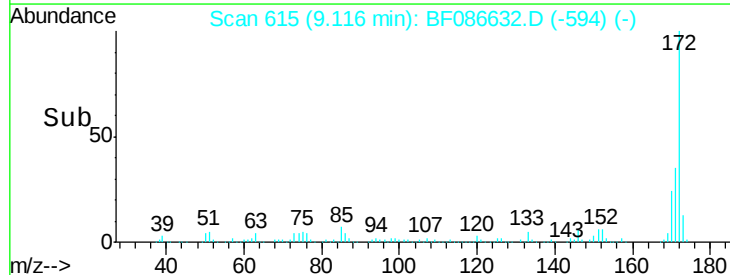
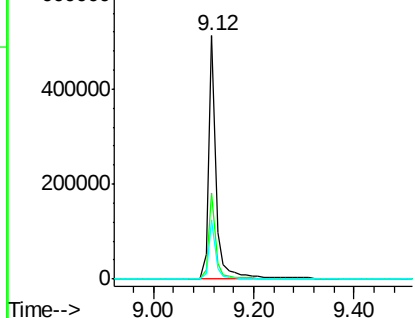


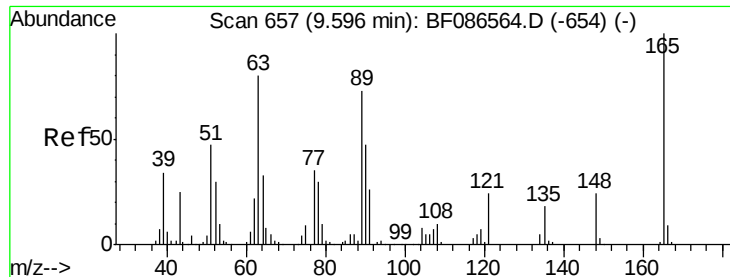
#44  
 2-Fluorobiphenyl  
 Concen: 17.77 ng  
 RT: 9.12 min Scan# 615  
 Delta R.T. -0.06 min  
 Lab File: BF086632.D  
 Acq: 2 May 2016 22:16

Tgt Ion:172 Resp: 544163  
 Ion Ratio Lower Upper  
 172 100  
 171 35.4 29.0 43.6  
 170 24.2 19.8 29.8



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

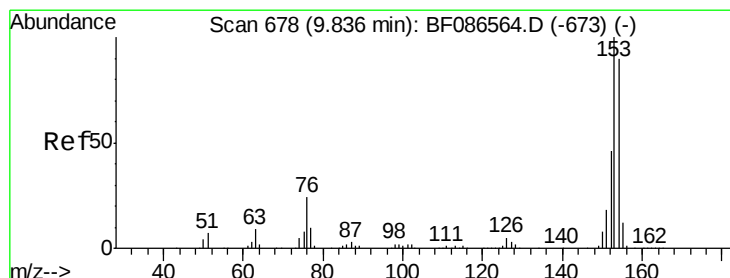
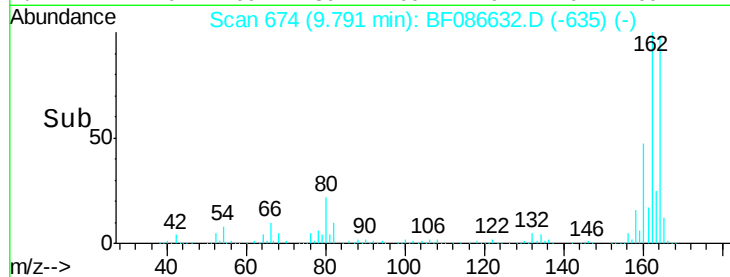
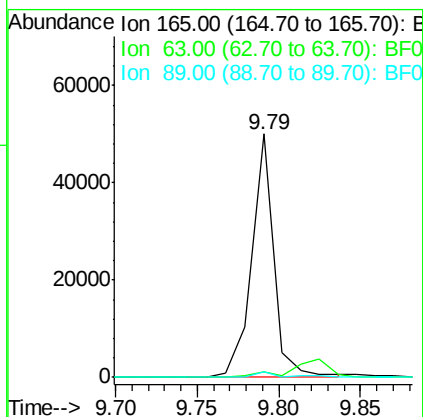
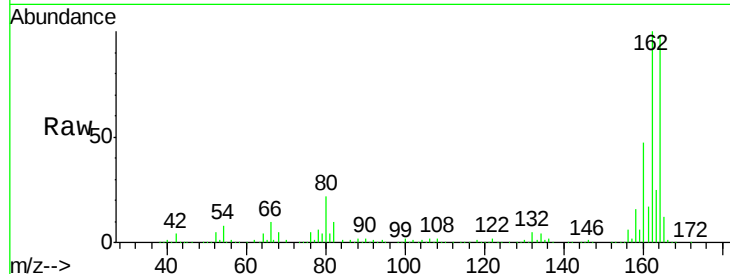




#50  
 2,6-Dinitrotoluene  
 Concen: 8.08 ng  
 RT: 9.79 min Scan# 674  
 Delta R.T. 0.15 min  
 Lab File: BF086632.D  
 Acq: 2 May 2016 22:16

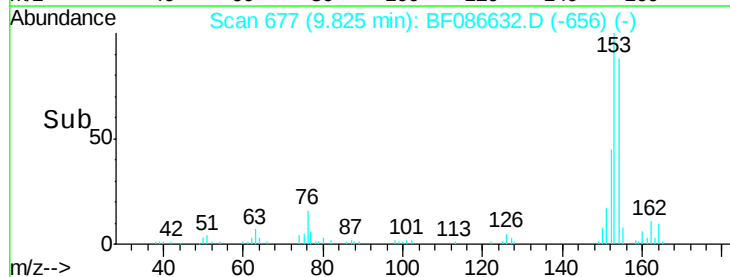
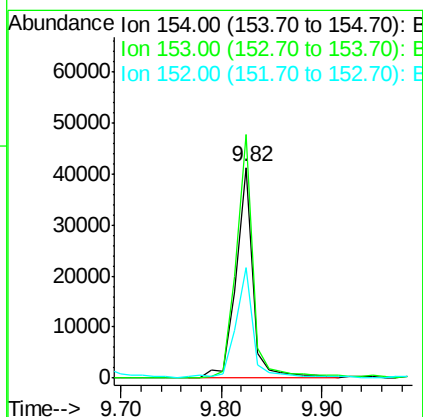
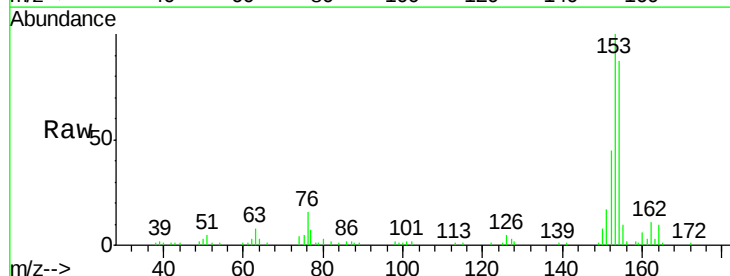
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TEC-B1COMPDL

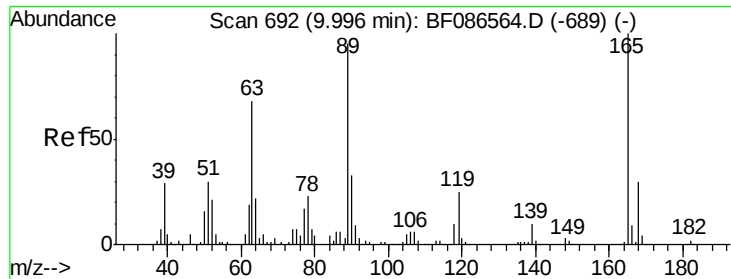
Tgt Ion:165 Resp: 47242  
 Ion Ratio Lower Upper  
 165 100  
 63 2.3 51.8 77.8#  
 89 2.2 50.7 76.1#



#51  
 Acenaphthene  
 Concen: 2.03 ng  
 RT: 9.82 min Scan# 677  
 Delta R.T. -0.06 min  
 Lab File: BF086632.D  
 Acq: 2 May 2016 22:16

Tgt Ion:154 Resp: 48810  
 Ion Ratio Lower Upper  
 154 100  
 153 115.6 89.8 134.6  
 152 52.4 43.4 65.0

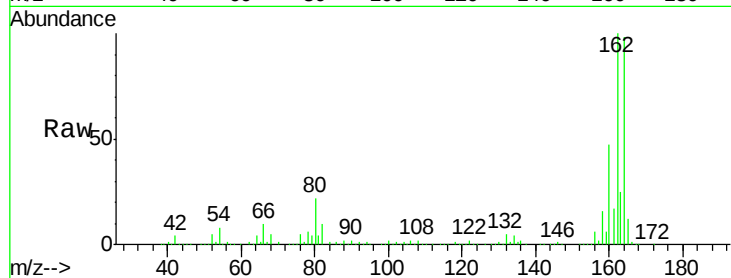




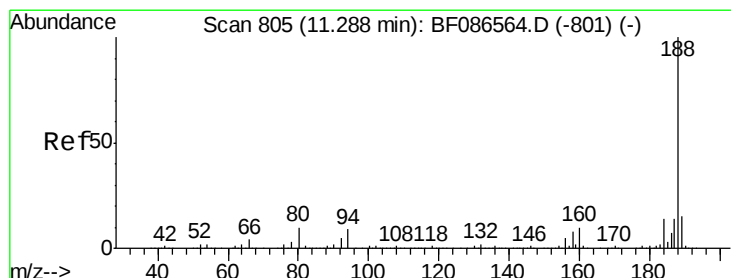
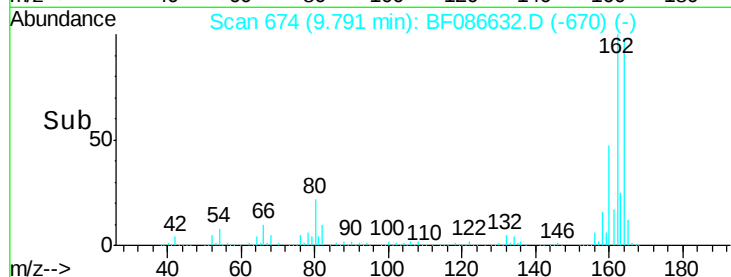
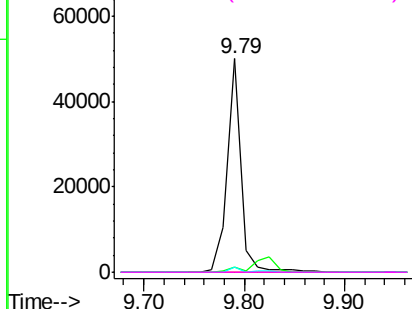
#56  
2,4-Dinitrotoluene  
Concen: 6.45 ng  
RT: 9.79 min Scan# 674  
Delta R.T. -0.25 min  
Lab File: BF086632.D  
Acq: 2 May 2016 22:16

Instrument :  
BNA\_F  
ClientSampleId :  
TEC-B1COMPDL

Tgt Ion:165 Resp: 48120  
Ion Ratio Lower Upper  
165 100  
63 2.3 44.3 66.5#  
89 2.2 70.0 105.0#  
182 0.0 1.8 2.6#

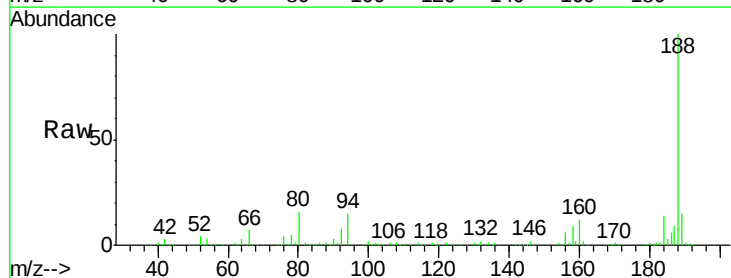


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0  
Ion 182.00 (181.70 to 182.70): E

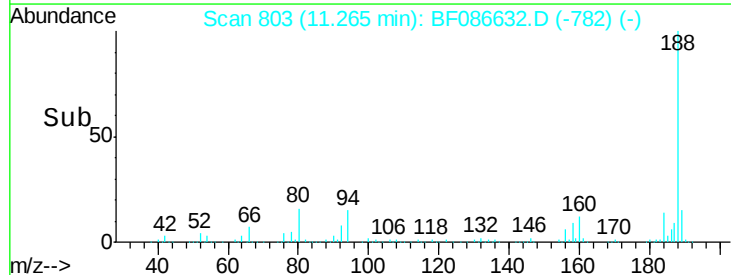
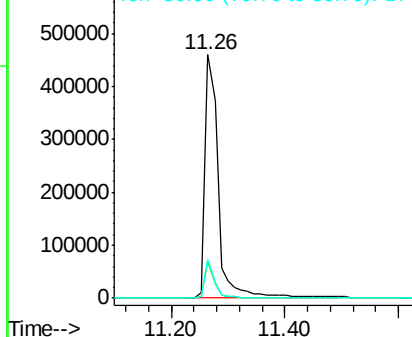


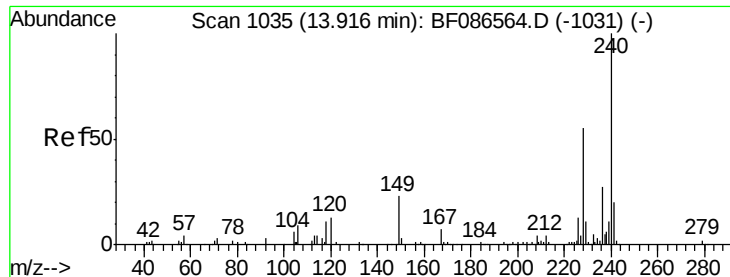
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.26 min Scan# 803  
Delta R.T. -0.06 min  
Lab File: BF086632.D  
Acq: 2 May 2016 22:16

Tgt Ion:188 Resp: 714236  
Ion Ratio Lower Upper  
188 100  
94 14.6 6.8 10.2#  
80 16.1 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: 13.89 min Scan# 1033

Delta R.T. -0.07 min

Lab File: BF086632.D

Acq: 2 May 2016 22:16

Instrument :

BNA\_F

ClientSampleId :

TEC-B1COMPDL

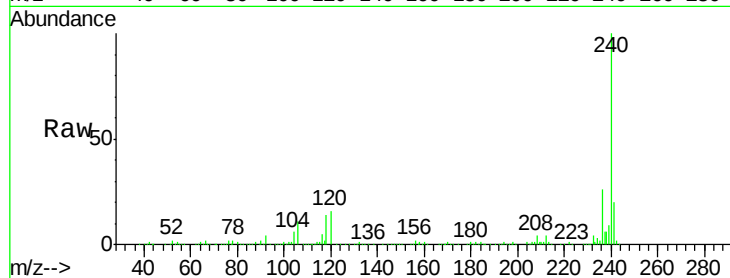
Tgt Ion:240 Resp: 616789

Ion Ratio Lower Upper

240 100

120 16.2 11.2 16.8

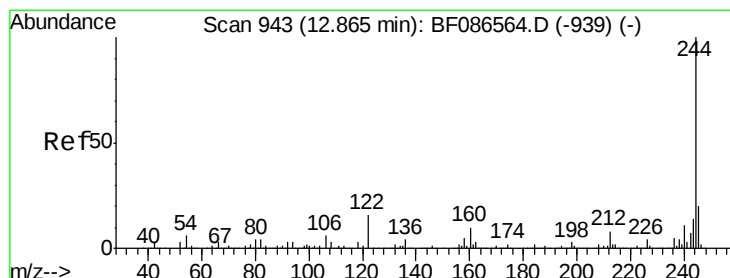
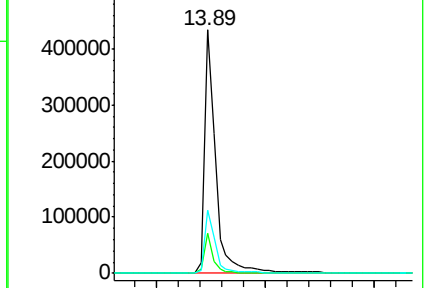
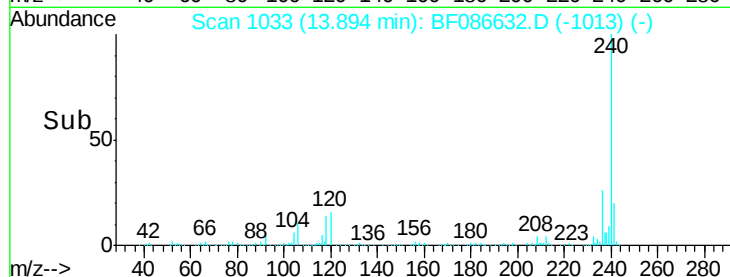
236 26.1 21.2 31.8



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: 20.27 ng

RT: 12.85 min Scan# 942

Delta R.T. -0.06 min

Lab File: BF086632.D

Acq: 2 May 2016 22:16

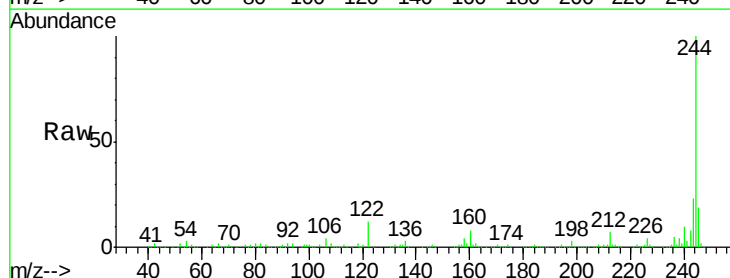
Tgt Ion:244 Resp: 567555

Ion Ratio Lower Upper

244 100

212 7.3 6.2 9.2

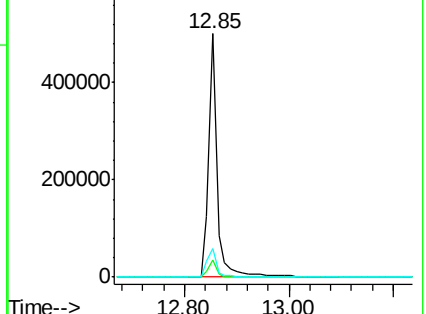
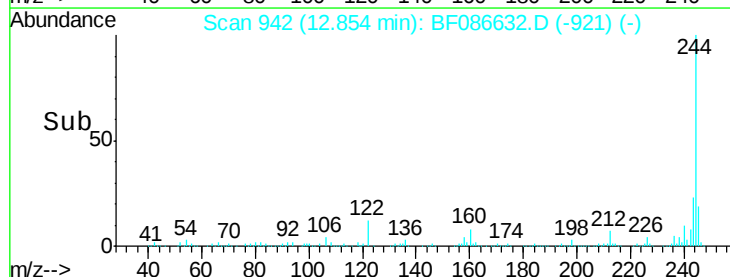
122 11.7 12.0 18.0#

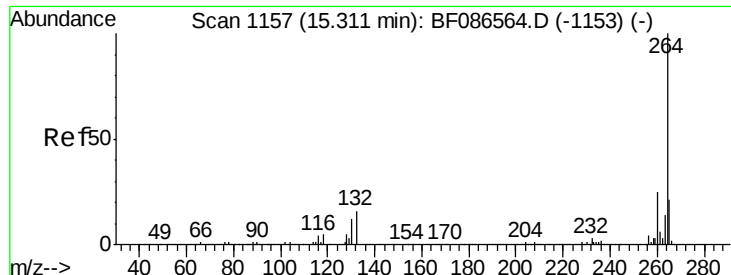


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

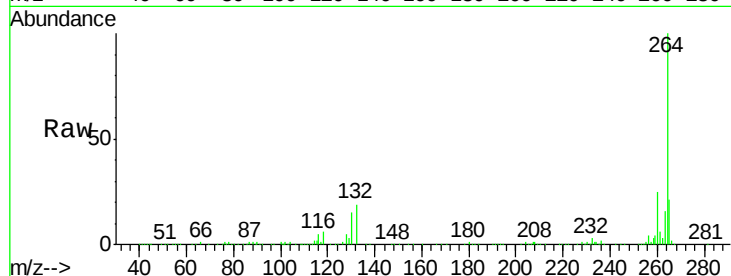




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.29 min Scan# 1155  
Delta R.T. -0.07 min  
Lab File: BF086632.D  
Acq: 2 May 2016 22:16

Instrument :  
BNA\_F  
ClientSampleId :  
TEC-B1COMPDL

Tgt Ion: 264 Resp: 432171  
Ion Ratio Lower Upper  
264 100  
260 24.7 19.5 29.3  
265 21.4 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

