

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF111716\  
 Data File : BF091228.D  
 Acq On : 17 Nov 2016 22:32  
 Operator : UM/SJ  
 Sample : H5681-04  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WQ-4W

Quant Time: Nov 18 03:09:42 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 08 12:59:29 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.61  | 152  | 189223   | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 7.90  | 136  | 788830   | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10      | 9.65  | 164  | 371096   | 20.00 | ng    | -0.05    |
| 63) Phenanthrene-d10      | 11.14 | 188  | 628257   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12          | 13.78 | 240  | 429631   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 15.15 | 264  | 348335   | 20.00 | ng    | -0.03    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.20  | 112  | 546029   | 47.66  | ng    | -0.05    |
| 7) Phenol-d6                | 6.27  | 99   | 509593   | 32.77  | ng    | -0.05    |
| 23) Nitrobenzene-d5         | 7.20  | 82   | 1181943  | 81.74  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 10.45 | 330  | 489272   | 145.84 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 8.99  | 172  | 1809919  | 83.97  | ng    | -0.05    |
| 78) Terphenyl-d14           | 12.73 | 244  | 1644237  | 95.50  | ng    | -0.03    |

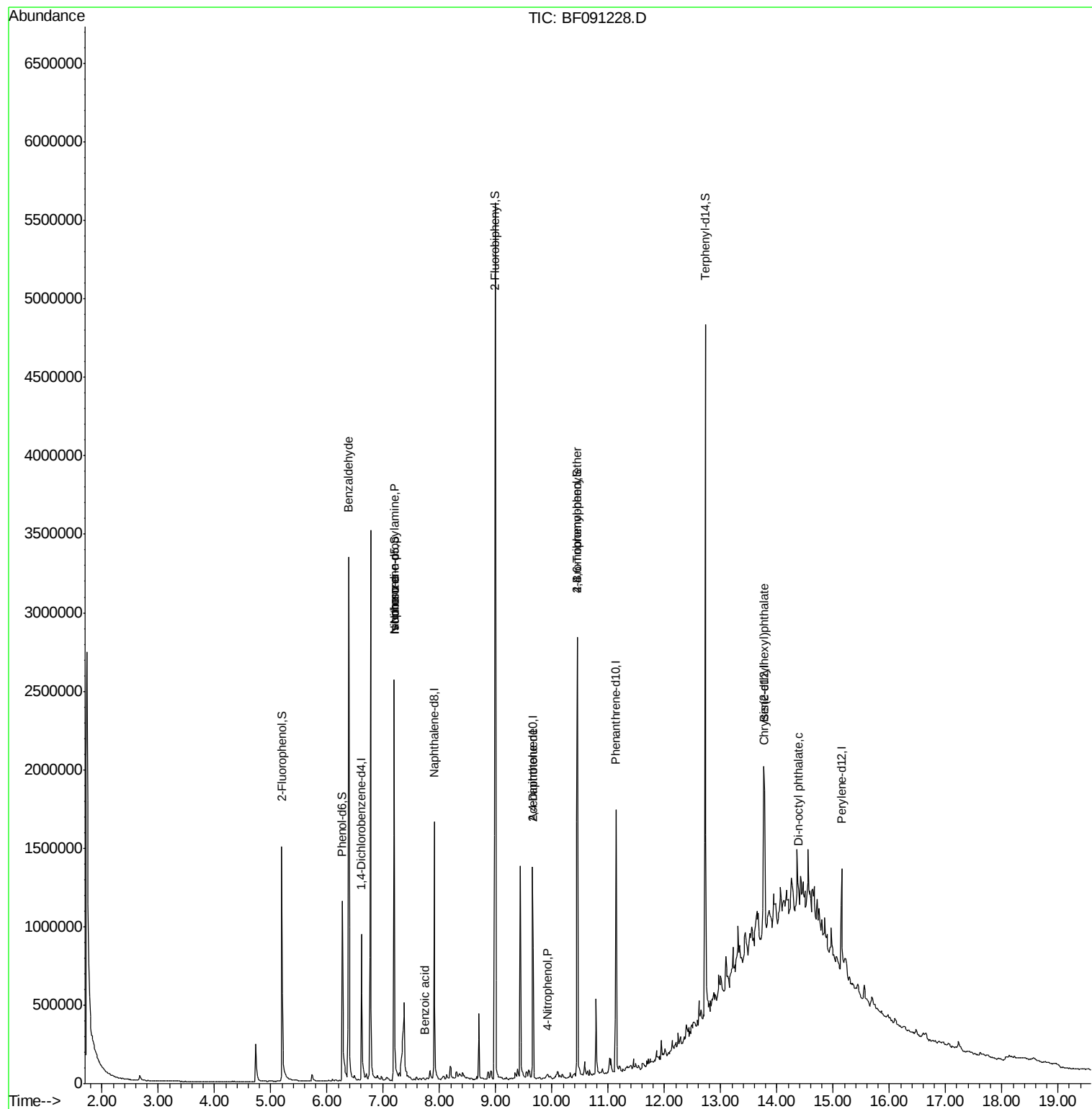
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 9) Benzaldehyde                | 6.38  | 77   | 22828    | 2.64  | ng    | 84     |
| 19) n-Nitroso-di-n-propylamine | 7.20  | 70   | 158638   | 14.72 | ng    | # 75   |
| 25) Isophorone                 | 7.20  | 82   | 1148283  | 41.21 | ng    | # 67   |
| 32) Benzoic acid               | 7.74  | 122  | 1154     | 5.19  | ng    | # 69   |
| 55) 4-Nitrophenol              | 9.93  | 139  | 456      | 5.84  | ng    | # 53   |
| 56) 2,4-Dinitrotoluene         | 9.65  | 165  | 47436    | 7.15  | ng    | # 27   |
| 66) 4-Bromophenyl-phenylether  | 10.45 | 248  | 32511    | 4.98  | ng    | # 1    |
| 83) Bis(2-ethylhexyl)phthalate | 13.77 | 149  | 125552   | 6.89  | ng    | 99     |
| 84) Di-n-octyl phthalate       | 14.39 | 149  | 117391   | 3.92  | ng    | # 74   |

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

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110316.M  
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QLast Update : Tue Nov 08 12:59:29 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.61 min Scan# 431

Delta R.T. -0.05 min

Lab File: BF091228.D

Acq: 17 Nov 2016 22:32

Instrument :

BNA\_F

ClientSampleId :

WQ-4W

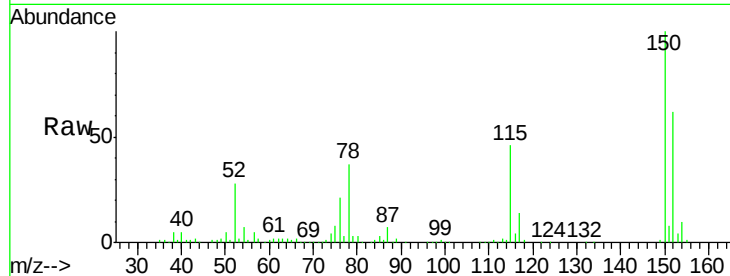
Tgt Ion:152 Resp: 189223

Ion Ratio Lower Upper

152 100

150 161.4 126.8 190.2

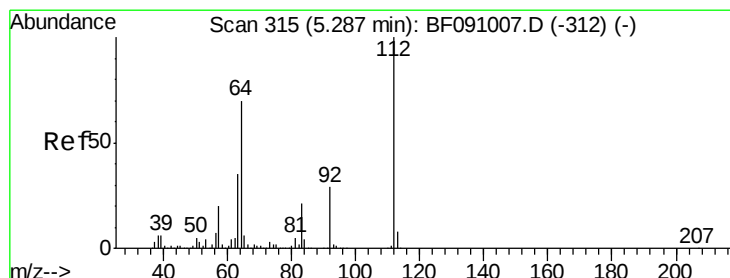
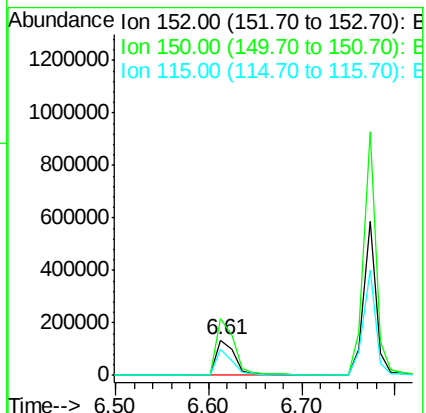
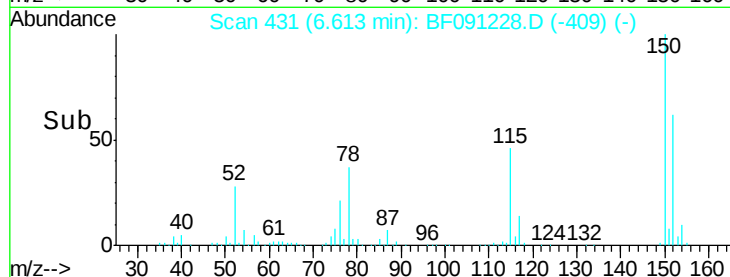
115 74.9 53.3 79.9



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: 47.66 ng

RT: 5.20 min Scan# 307

Delta R.T. -0.05 min

Lab File: BF091228.D

Acq: 17 Nov 2016 22:32

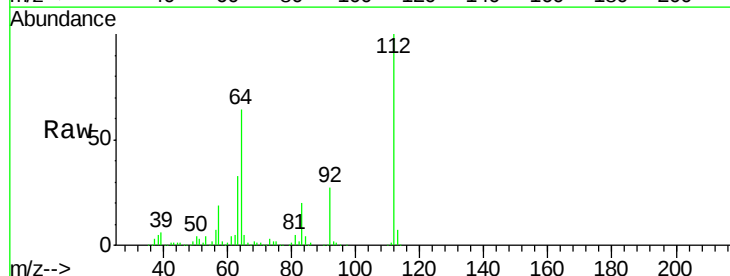
Tgt Ion:112 Resp: 546029

Ion Ratio Lower Upper

112 100

64 64.2 55.8 83.6

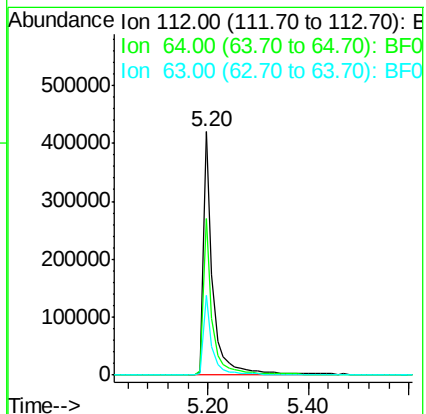
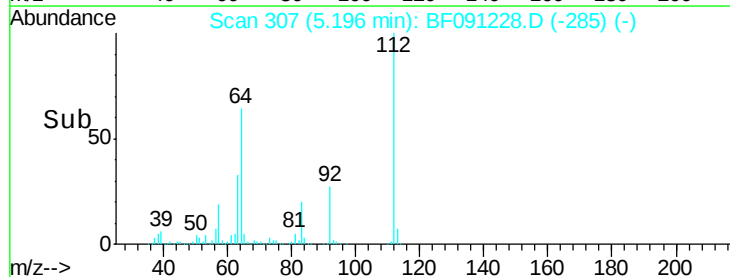
63 33.0 28.0 42.0

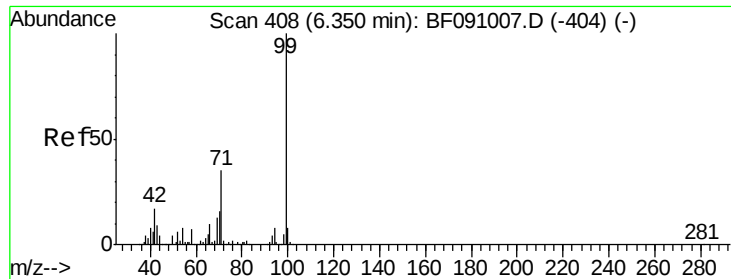


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 32.77 ng

RT: 6.27 min Scan# 401

Delta R.T. -0.05 min

Lab File: BF091228.D

Acq: 17 Nov 2016 22:32

Instrument :

BNA\_F

ClientSampleId :

WQ-4W

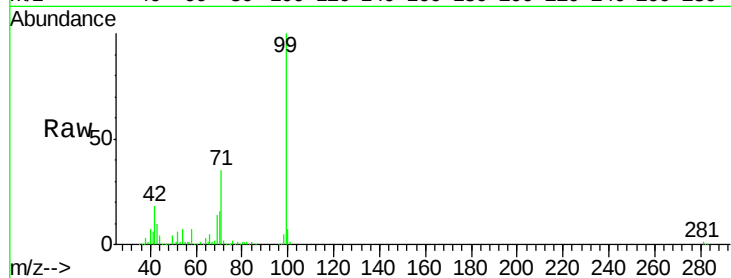
Tgt Ion: 99 Resp: 509593

Ion Ratio Lower Upper

99 100

42 17.7 13.9 20.9

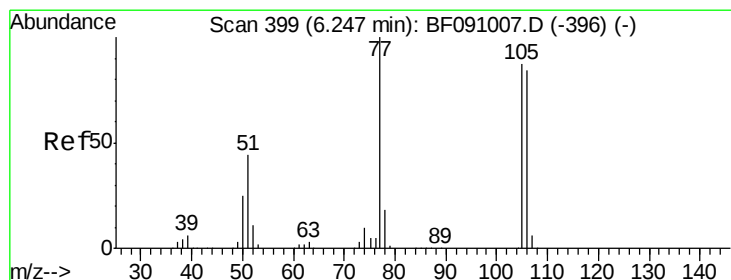
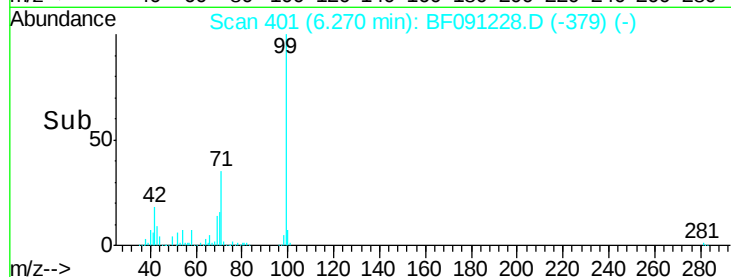
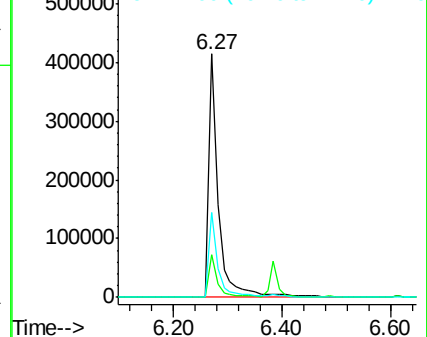
71 34.6 27.8 41.8



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



#9

Benzaldehyde

Concen: 2.64 ng

RT: 6.38 min Scan# 411

Delta R.T. 0.18 min

Lab File: BF091228.D

Acq: 17 Nov 2016 22:32

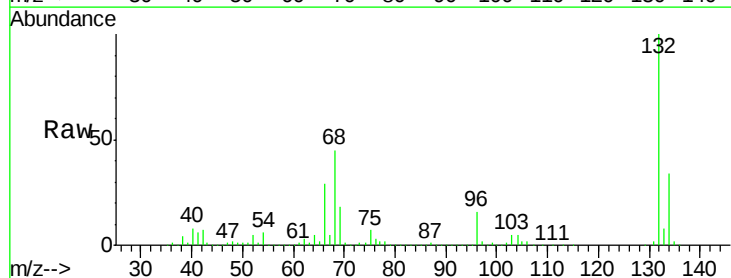
Tgt Ion: 77 Resp: 22828

Ion Ratio Lower Upper

77 100

105 75.5 66.8 106.8

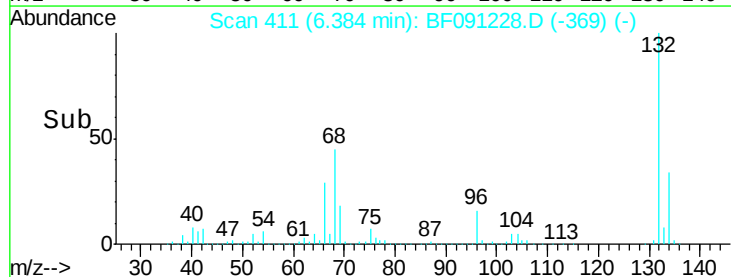
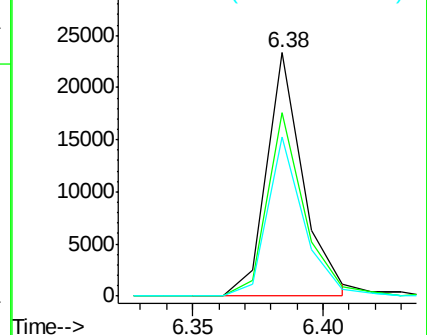
106 65.6 64.0 104.0

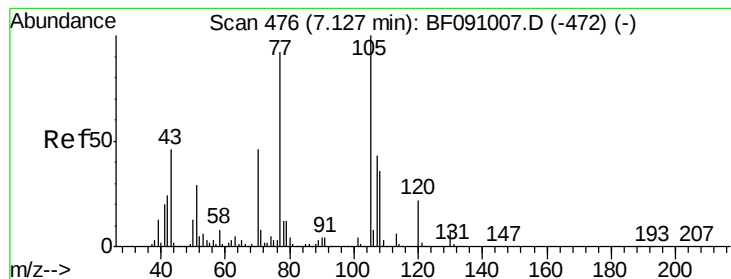


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): B

Ion 106.00 (105.70 to 106.70): B





#19

n-Nitroso-di-n-propylamine

Concen: 14.72 ng

RT: 7.20 min Scan# 482

Delta R.T. 0.10 min

Lab File: BF091228.D

Acq: 17 Nov 2016 22:32

Instrument :

BNA\_F

ClientSampleId :

WQ-4W

Tgt Ion: 70 Resp: 158638

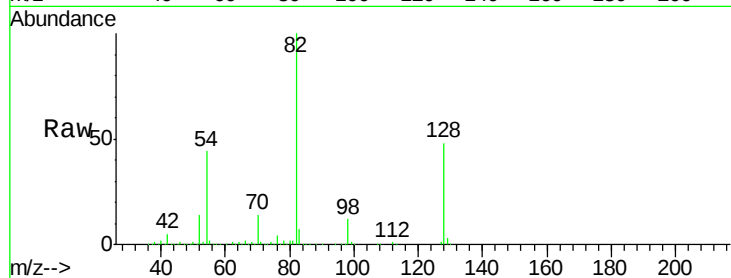
Ion Ratio Lower Upper

70 100

42 36.3 41.7 62.5#

101 0.0 6.7 10.1#

130 2.3 13.8 20.8#

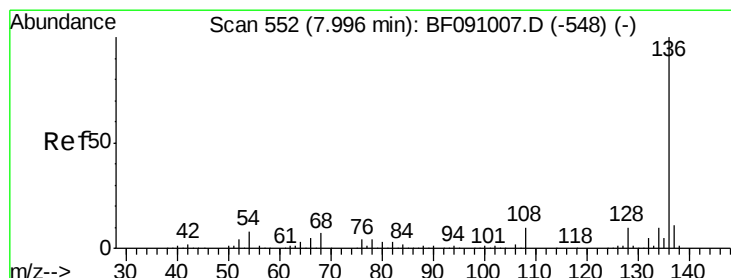
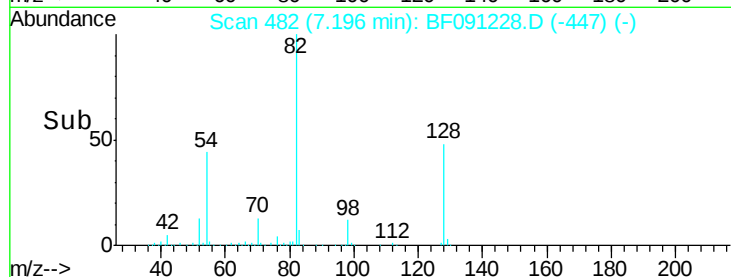
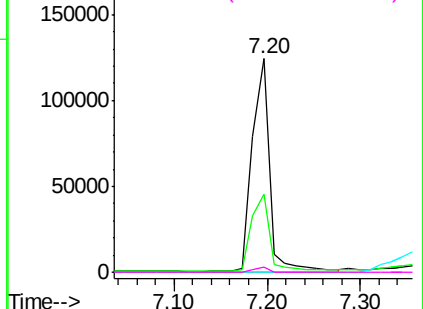


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.90 min Scan# 544

Delta R.T. -0.05 min

Lab File: BF091228.D

Acq: 17 Nov 2016 22:32

Tgt Ion: 136 Resp: 788830

Ion Ratio Lower Upper

136 100

137 11.5 8.9 13.3

54 9.2 6.2 9.2

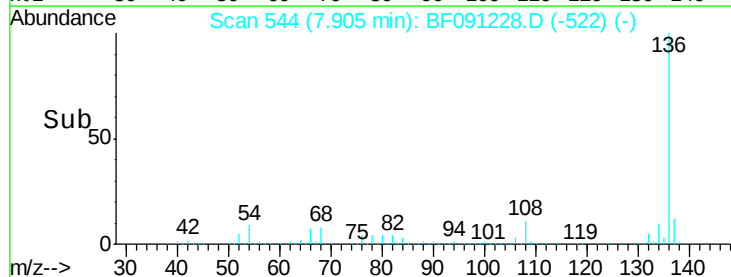
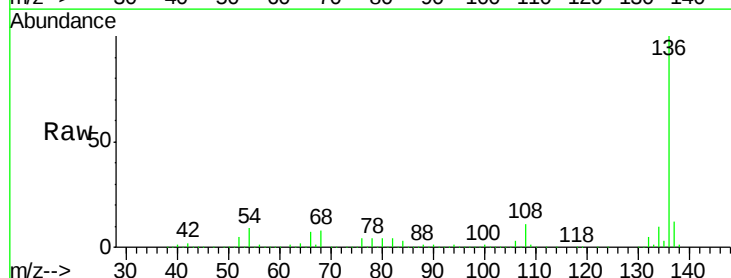
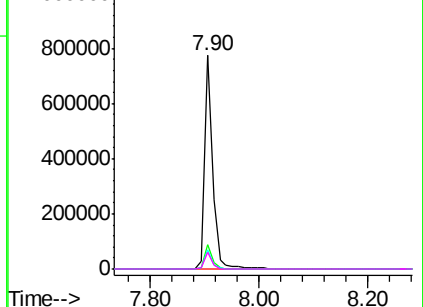
68 8.1 5.5 8.3

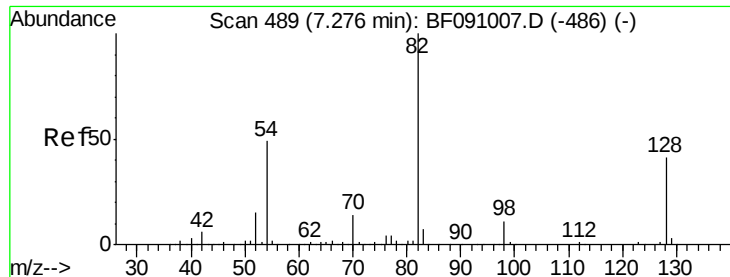
Abundance Ion 136.00 (135.70 to 136.70): E

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

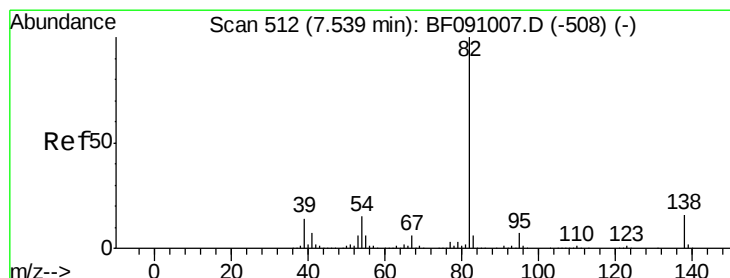
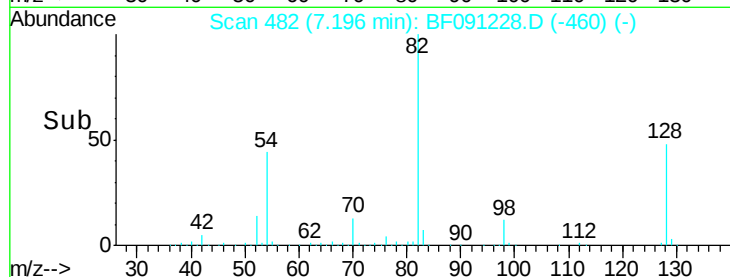
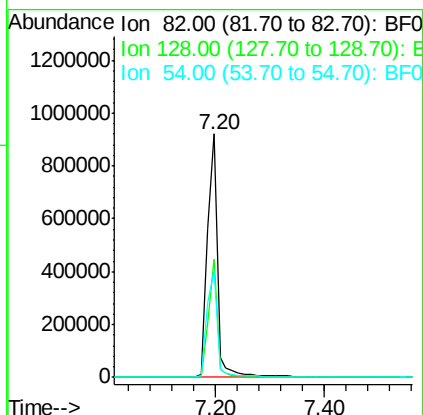
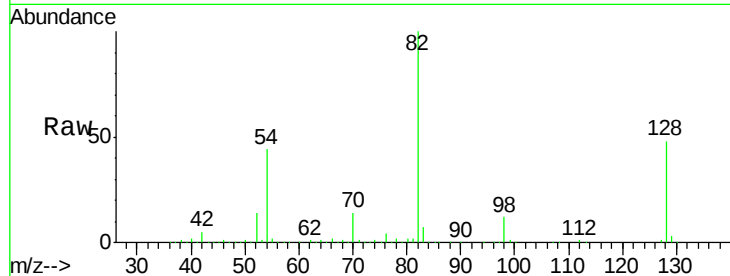




#23  
 Nitrobenzene-d5  
 Concen: 81.74 ng  
 RT: 7.20 min Scan# 482  
 Delta R.T. -0.05 min  
 Lab File: BF091228.D  
 Acq: 17 Nov 2016 22:32

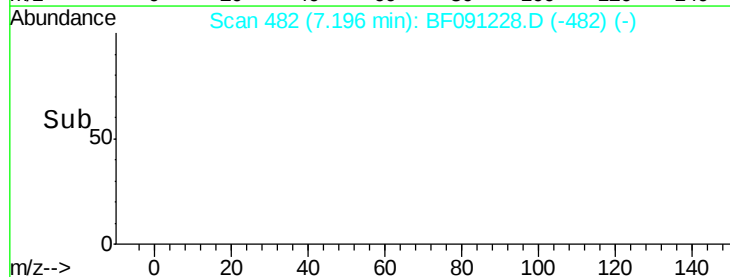
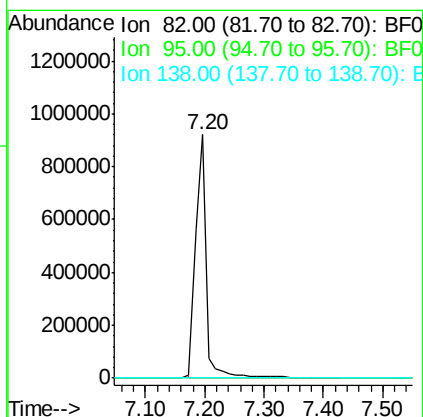
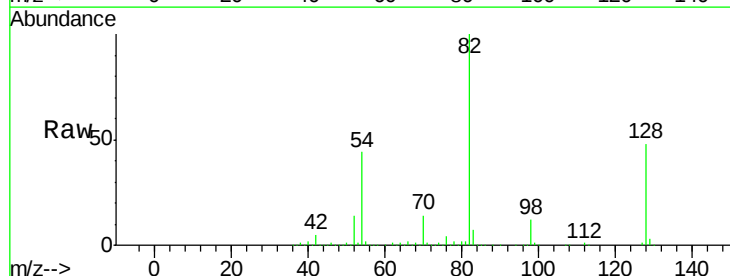
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WQ-4W

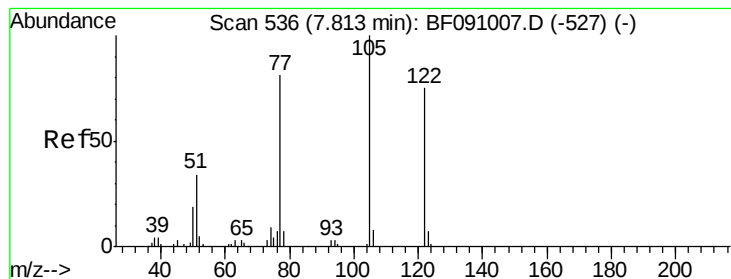
Tgt Ion: 82 Resp: 1181943  
 Ion Ratio Lower Upper  
 82 100  
 128 48.3 32.4 48.6  
 54 43.7 39.2 58.8



#25  
 Isophorone  
 Concen: 41.21 ng  
 RT: 7.20 min Scan# 482  
 Delta R.T. -0.30 min  
 Lab File: BF091228.D  
 Acq: 17 Nov 2016 22:32

Tgt Ion: 82 Resp: 1148283  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.4 8.0#  
 138 0.0 13.0 19.4#





#32

Benzoic acid

Concen: 5.19 ng

RT: 7.74 min Scan# 530

Delta R.T. -0.03 min

Lab File: BF091228.D

Acq: 17 Nov 2016 22:32

Instrument :

BNA\_F

ClientSampleId :

WQ-4W

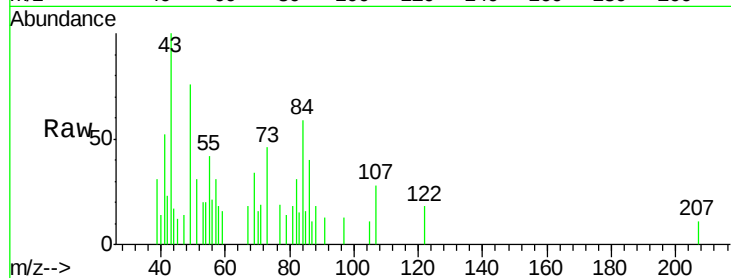
Tgt Ion:122 Resp: 1154

Ion Ratio Lower Upper

122 100

105 62.1 105.9 145.9#

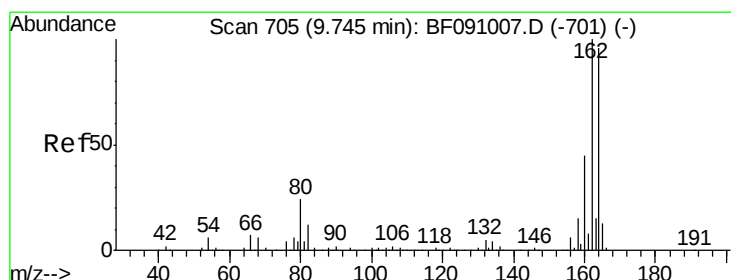
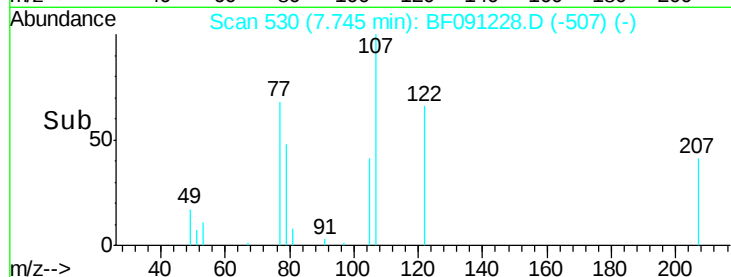
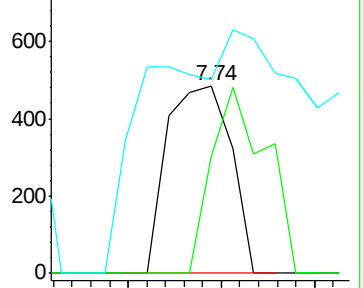
77 103.5 84.0 124.0



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.65 min Scan# 697

Delta R.T. -0.05 min

Lab File: BF091228.D

Acq: 17 Nov 2016 22:32

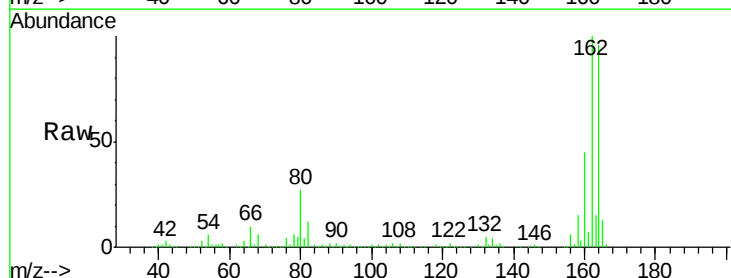
Tgt Ion:164 Resp: 371096

Ion Ratio Lower Upper

164 100

162 104.0 83.6 125.4

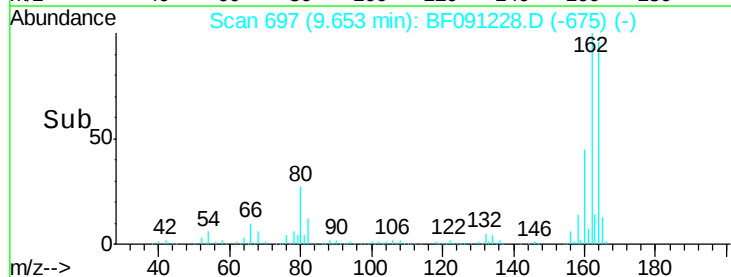
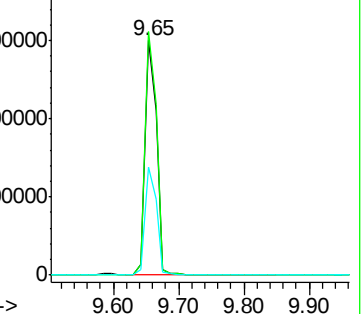
160 46.3 37.9 56.9

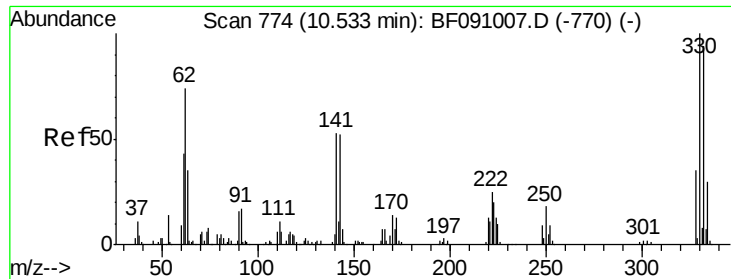


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

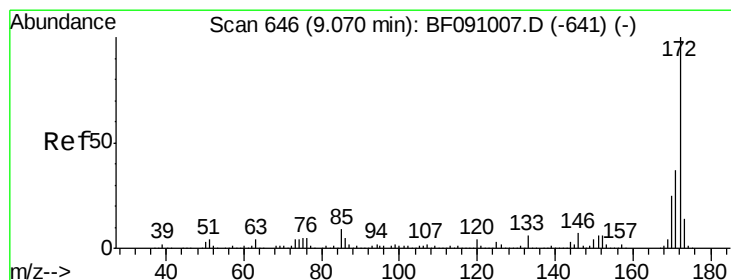
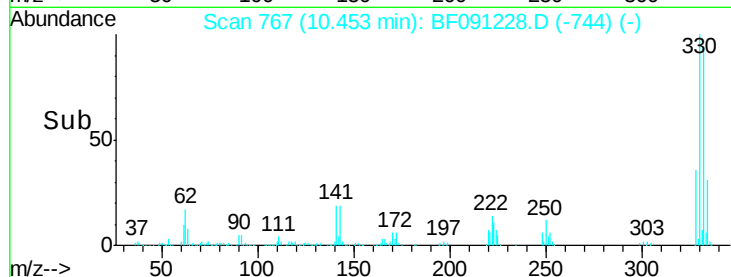
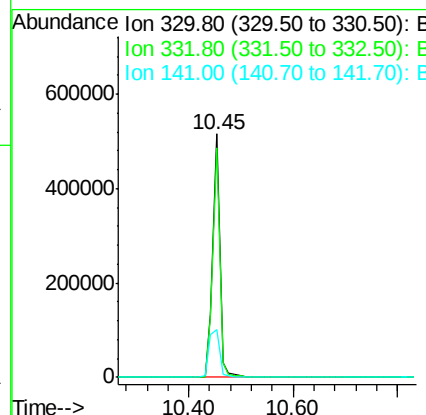
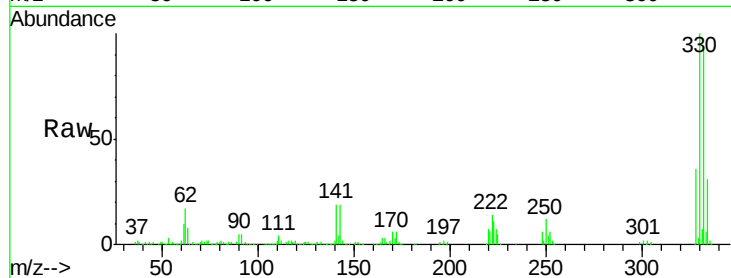




#41  
 2,4,6-Tribromophenol  
 Concen: 145.84 ng  
 RT: 10.45 min Scan# 767  
 Delta R.T. -0.03 min  
 Lab File: BF091228.D  
 Acq: 17 Nov 2016 22:32

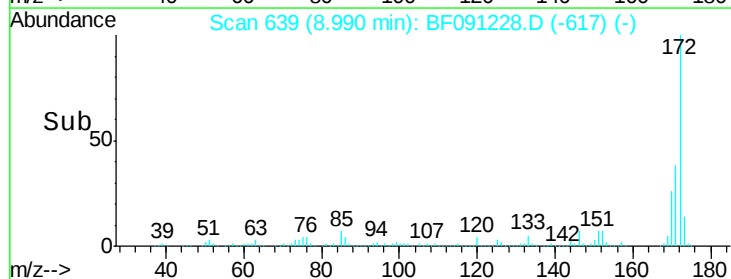
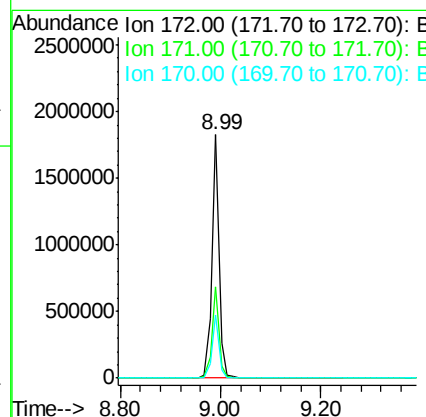
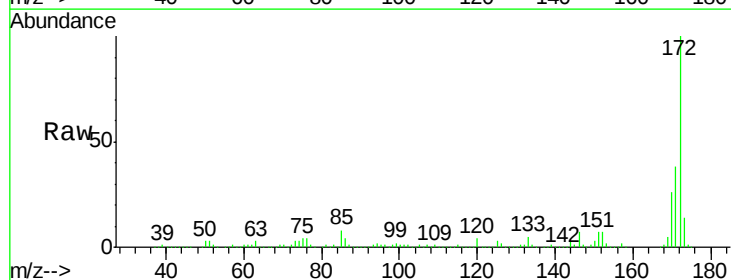
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WQ-4W

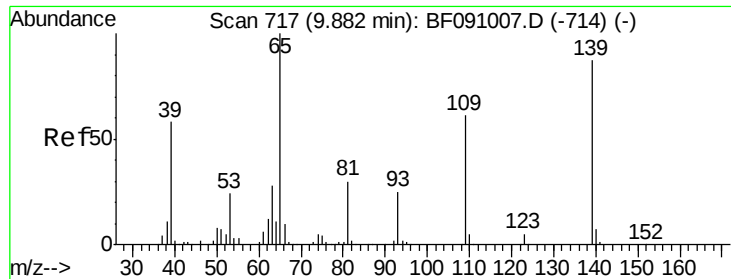
Tgt Ion:330 Resp: 489272  
 Ion Ratio Lower Upper  
 330 100  
 332 94.7 75.9 113.9  
 141 29.7 36.1 54.1#



#44  
 2-Fluorobiphenyl  
 Concen: 83.97 ng  
 RT: 8.99 min Scan# 639  
 Delta R.T. -0.05 min  
 Lab File: BF091228.D  
 Acq: 17 Nov 2016 22:32

Tgt Ion:172 Resp: 1809919  
 Ion Ratio Lower Upper  
 172 100  
 171 37.5 29.8 44.6  
 170 26.1 20.3 30.5





#55

4-Nitrophenol

Concen: 5.84 ng

RT: 9.93 min Scan# 721

Delta R.T. 0.08 min

Lab File: BF091228.D

Acq: 17 Nov 2016 22:32

Instrument :

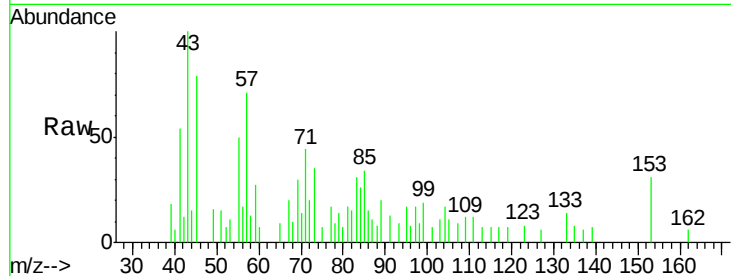
BNA\_F

ClientSampled :

WQ-4W

Tgt Ion:139 Resp: 456

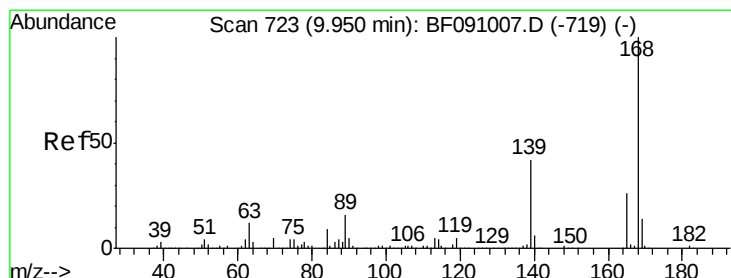
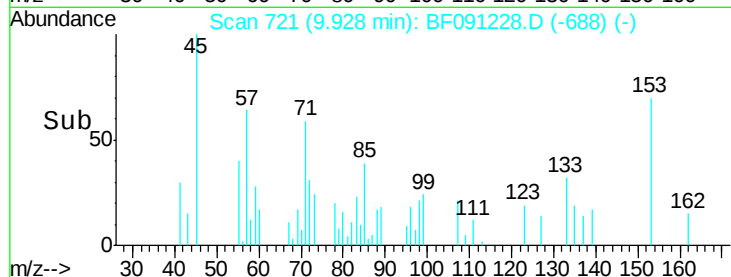
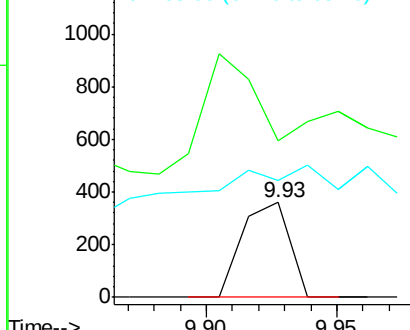
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 139 | 100   |       |       |
| 109 | 165.5 | 50.5  | 90.5# |
| 65  | 123.7 | 97.1  | 137.1 |



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



#56

2,4-Dinitrotoluene

Concen: 7.15 ng

RT: 9.65 min Scan# 697

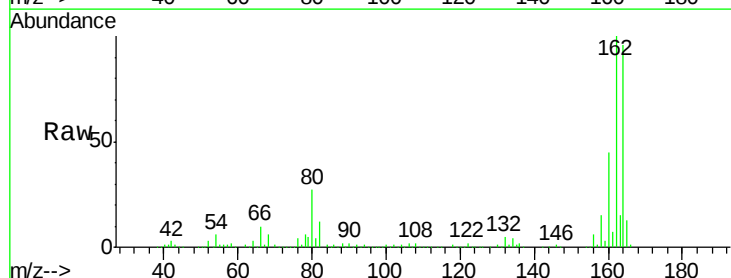
Delta R.T. -0.25 min

Lab File: BF091228.D

Acq: 17 Nov 2016 22:32

Tgt Ion:165 Resp: 47436

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 1.7   | 38.7  | 58.1# |
| 89  | 2.0   | 50.6  | 76.0# |
| 182 | 0.0   | 1.8   | 2.8#  |

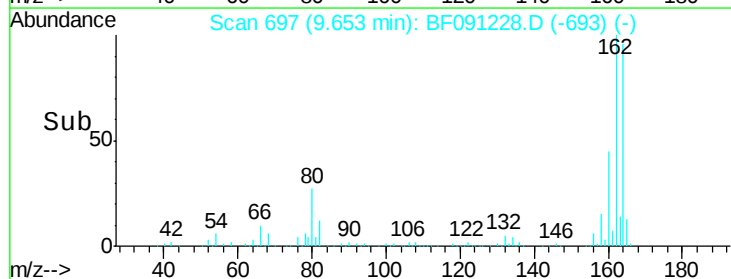
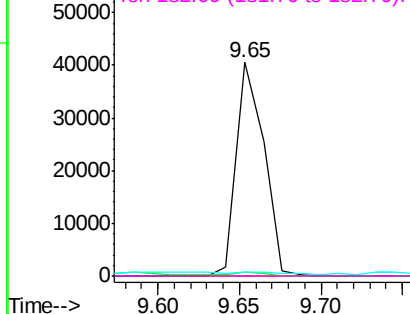


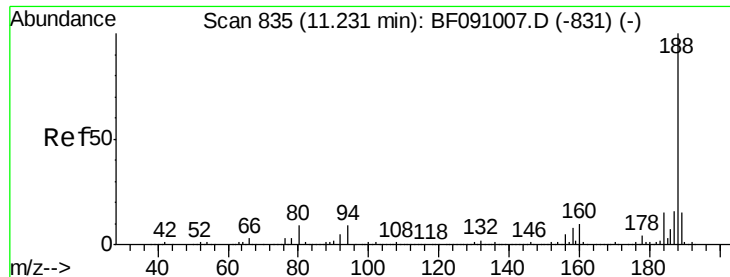
Abundance Ion 165.00 (164.70 to 165.70): E

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

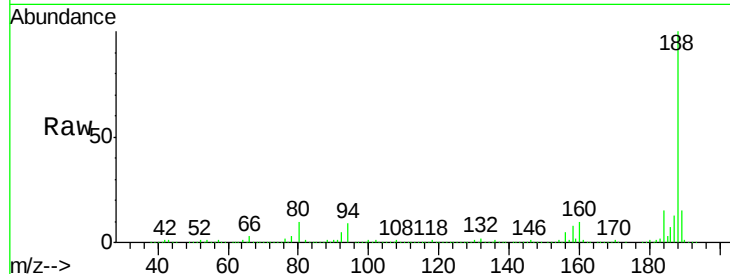




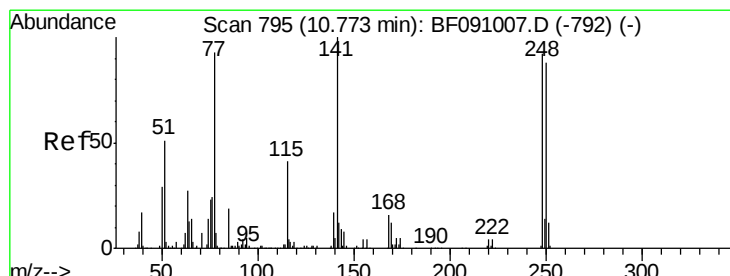
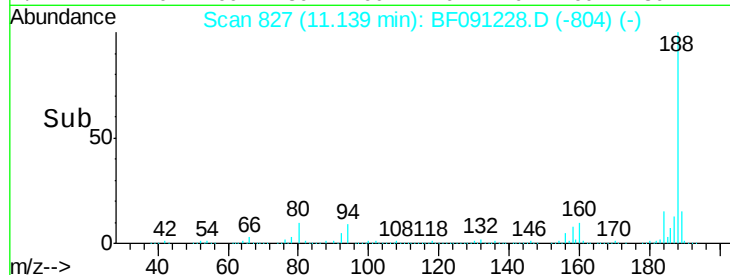
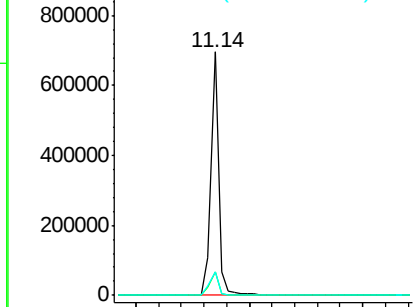
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.14 min Scan# 827  
Delta R.T. -0.03 min  
Lab File: BF091228.D  
Acq: 17 Nov 2016 22:32

Instrument :  
BNA\_F  
ClientSampleId :  
WQ-4W

Tgt Ion:188 Resp: 628257  
Ion Ratio Lower Upper  
188 100  
94 9.4 7.0 10.4  
80 9.7 7.5 11.3

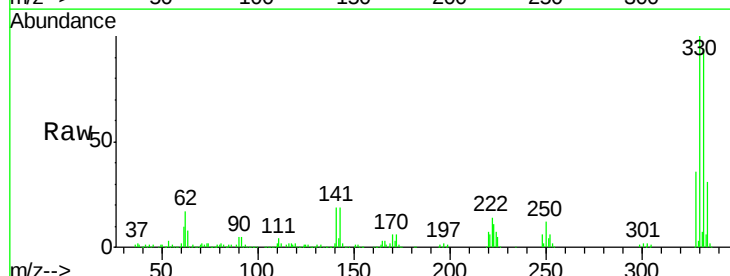


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

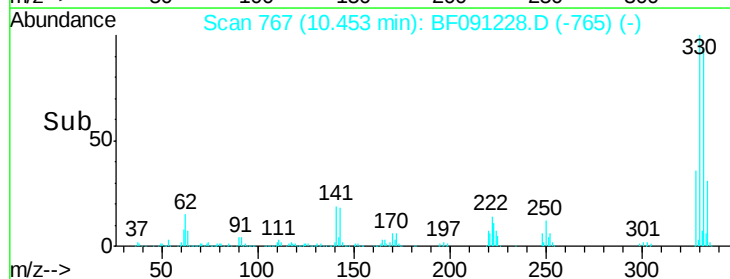
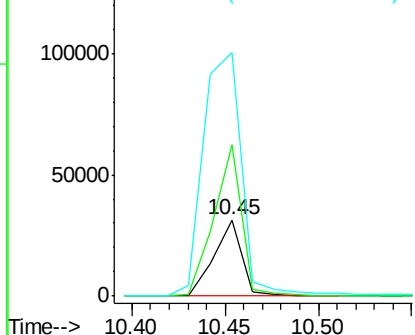


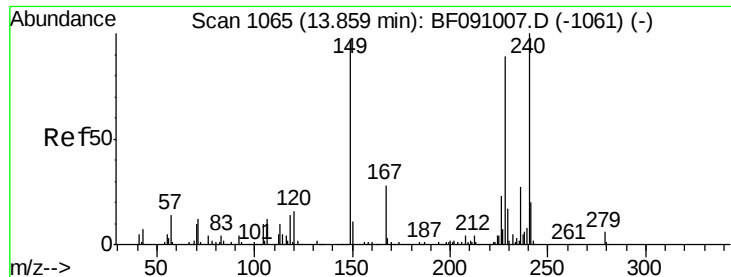
#66  
4-Bromophenyl-phenylether  
Concen: 4.98 ng  
RT: 10.45 min Scan# 767  
Delta R.T. -0.27 min  
Lab File: BF091228.D  
Acq: 17 Nov 2016 22:32

Tgt Ion:248 Resp: 32511  
Ion Ratio Lower Upper  
248 100  
250 198.9 76.3 114.5#  
141 319.2 86.8 130.2#



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: 13.78 min Scan# 1058

Delta R.T. -0.03 min

Lab File: BF091228.D

Acq: 17 Nov 2016 22:32

Instrument :

BNA\_F

ClientSampleId :

WQ-4W

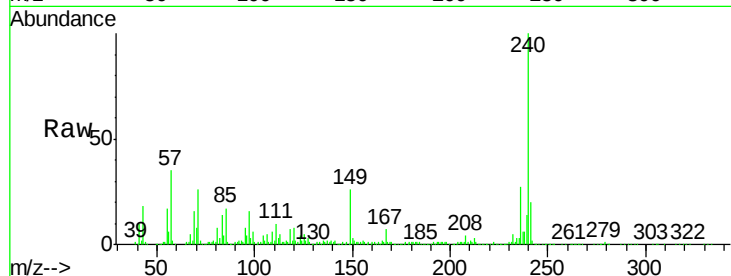
Tgt Ion:240 Resp: 429631

Ion Ratio Lower Upper

240 100

120 7.9 12.9 19.3#

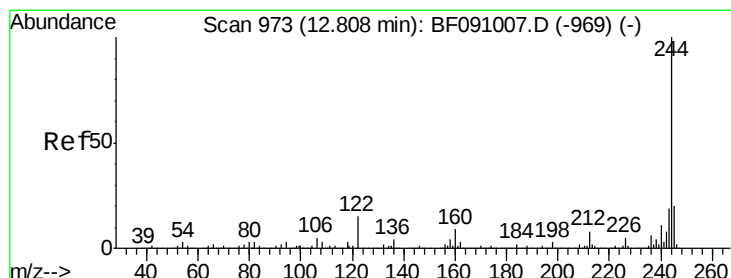
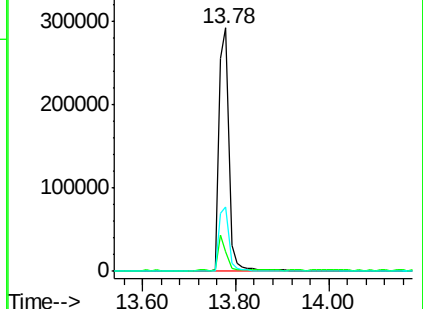
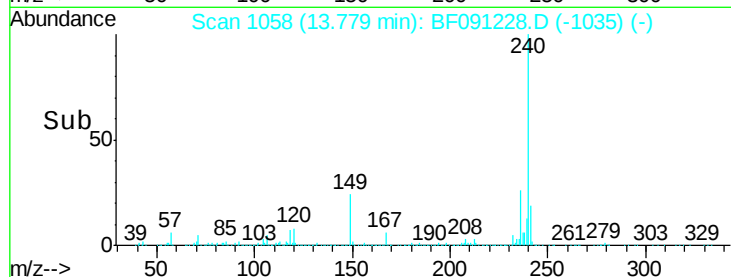
236 26.5 21.9 32.9



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: 95.50 ng

RT: 12.73 min Scan# 966

Delta R.T. -0.03 min

Lab File: BF091228.D

Acq: 17 Nov 2016 22:32

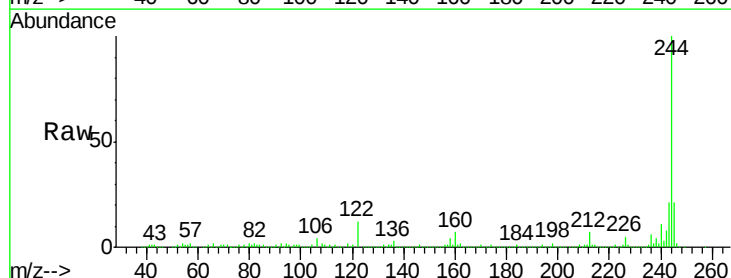
Tgt Ion:244 Resp: 1644237

Ion Ratio Lower Upper

244 100

212 7.1 6.4 9.6

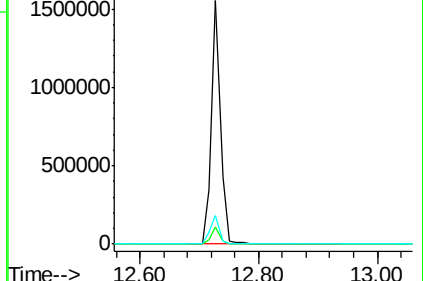
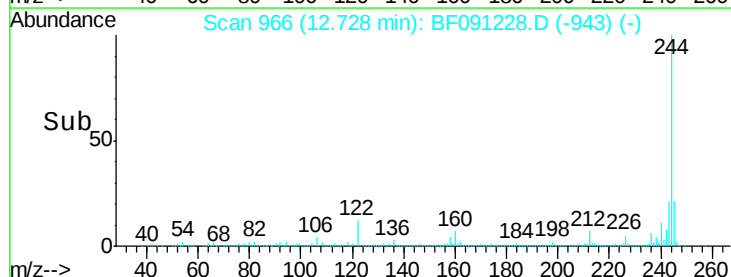
122 11.7 12.3 18.5#

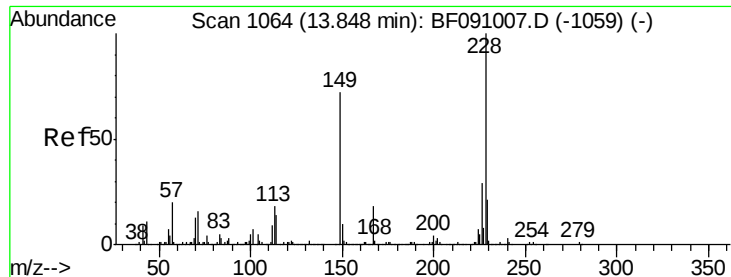


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

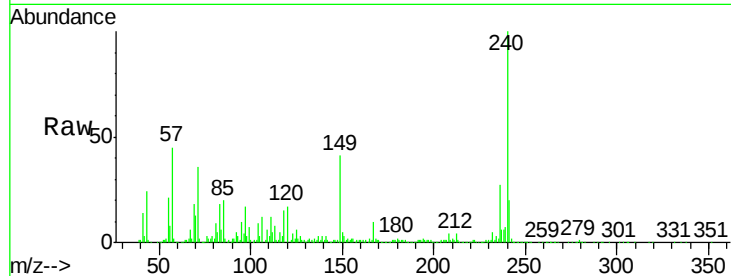




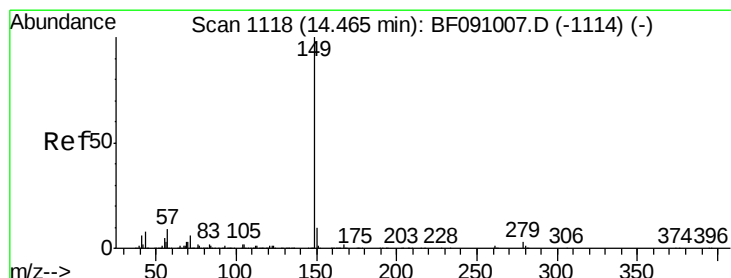
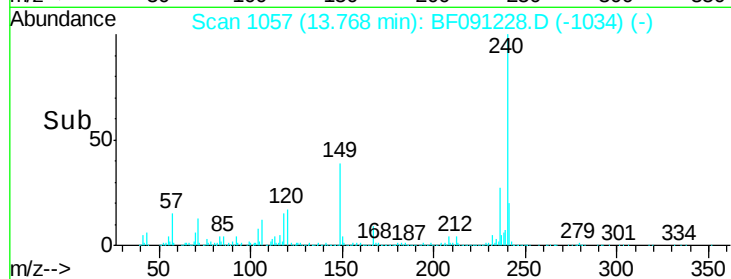
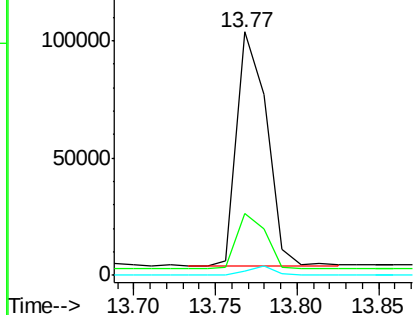
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 6.89 ng  
 RT: 13.77 min Scan# 1057  
 Delta R.T. -0.03 min  
 Lab File: BF091228.D  
 Acq: 17 Nov 2016 22:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WQ-4W

Tgt Ion:149 Resp: 125552  
 Ion Ratio Lower Upper  
 149 100  
 167 25.2 20.4 30.6  
 279 2.0 1.6 2.4

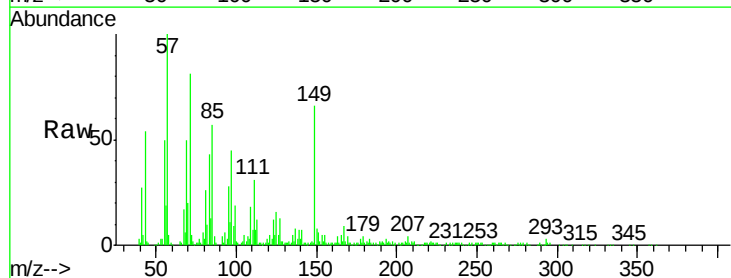


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

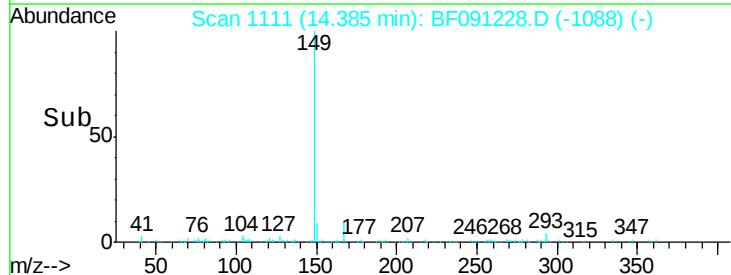
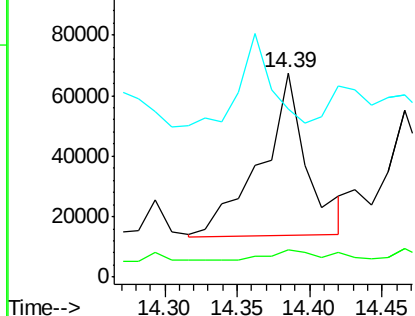


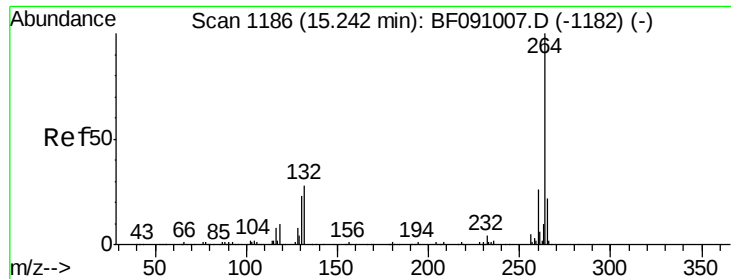
#84  
 Di-n-octyl phthalate  
 Concen: 3.92 ng  
 RT: 14.39 min Scan# 1111  
 Delta R.T. -0.03 min  
 Lab File: BF091228.D  
 Acq: 17 Nov 2016 22:32

Tgt Ion:149 Resp: 117391  
 Ion Ratio Lower Upper  
 149 100  
 167 7.9 1.2 1.8#  
 43 0.0 8.2 12.4#



Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 43.00 (42.70 to 43.70): BF0

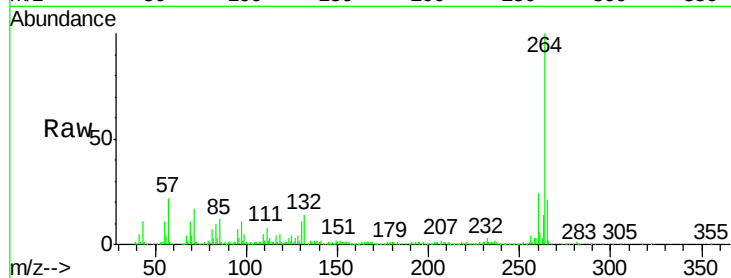




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.15 min Scan# 1178  
Delta R.T. -0.03 min  
Lab File: BF091228.D  
Acq: 17 Nov 2016 22:32

Instrument :  
BNA\_F  
ClientSampleId :  
WQ-4W

Tgt Ion: 264 Resp: 348335  
Ion Ratio Lower Upper  
264 100  
260 24.5 20.6 30.8  
265 21.4 17.8 26.8



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

