Figure 9  
  
Normalized spatial-temporal plots of the electron impact excitation rate

from the ground state into He-I (3s)3S1 obtained from simulations of (a) the powered

side and (b) the grounded side of the SDBD. The peak voltage is 20 kV, with a voltage

slope of 2.86 kV and a rise time of 7 ns. The peak voltage is held for 3 ns before

returning to 0 V with the same rate. The plasma is simulated in helium at a constant

admixture of 10 % nitrogen.

simulated data is marked with sim  
  
Figure 9 a) (sim)  
x (time/ ns), y (mm), z (Excitation/ a.u.)

Figure 9 b) (sim)  
x (time/ ns), y (mm), z (Excitation/ a.u.)