Figure 8  
  
Simulation results for the interest zone at three different times (columns)

with respect to the applied voltage pulse depicted in figure 2. The first row [(a)-(c)]

displays the excitation rate from the ground state into He-I (3s)3S1 in arbitrary units.

The second row [(d)-(f)] indicates the reduced electric field, additionally, the direction

of the electric field is shown via vector field. The third row [(g)-(i)] represents the

charge density. The peak voltage is 20 kV, with a slew rate of 2.86 kV/ns 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 8 a) (sim)  
x (y/ mm), y (z / mm), z (EXC./ a.u.)

Figure 8 b) (sim)  
x (y/ mm), y (z / mm), z (EXC./ a.u.)

Figure 8 c) (sim)  
x (y/ mm), y (z / mm), z (EXC./ a.u.)  
Figure 8 d) (sim)  
x (y/ mm), y (z / mm), z (E/ Td)  
Figure 8 e) (sim)  
x (y/ mm), y (z / mm), z (E/ Td)  
Figure 8 f) (sim)  
x (y/ mm), y (z / mm), z (E/ Td)  
Figure 8 g) (sim)  
x (y/ mm), y (z / mm), z (p/ As/cm3)

Figure 8 h) (sim)  
x (y/ mm), y (z / mm), z (p/ As/cm3)

Figure 8 i) (sim)  
x (y/ mm), y (z / mm), z (p/ As/cm3)