Figure 4  
  
Caption:   
Experimental measurements performed with the ICCD camera without the use of

any optical filters. The first row presents data obtained from the discharge driven by the μs-

pulses at 7 kVpp. Panels (a) and (b) show the frames captured for individual pulses and (c)

displays data integrated over multiple pulses. The gate width is set to 1000 ns. The second row

illustrates data for the discharge driven by the μs-pulses at 12 kVpp: panels (d) and (e) show

data for a single pulse and (f) averaged over multiple pulses. The gate width is set to 1000 ns.

The third row pictures the data for the discharge driven by the ns-pulse: panels (g) and (h) show

data for the single pulse and (i) averaged over multiple pulses. The gate width is set to 5 ns.

The measurements are performed at fixed phases of the μs- and ns- voltage pulse waveforms, as

marked with vertical dashed lines in figure 2. The gas mixture consists of 90 % helium and 10 %

nitrogen, with a total gas flow of 2 slm and p = 1 atm.  
  
  
experimental data is marked with exp  
calculated data is marked with cal  
  
Figure 4 a) exp  
x (mm), y (mm), z (Emission / a.u.)  
  
Figure 4 b) exp  
x (mm), y (mm), z (Emission / a.u.)

Figure 4 c) exp  
x (mm), y (mm), z (Emission / a.u.)

Figure 4 d) exp  
x (mm), y (mm), z (Emission / a.u.)

Figure 4 e) exp  
x (mm), y (mm), z (Emission / a.u.)

Figure 4 f) exp  
x (mm), y (mm), z (Emission / a.u.)

Figure 4 g) exp  
x (mm), y (mm), z (Emission / a.u.)

Figure 4 h) exp  
x (mm), y (mm), z (Emission / a.u.)

Figure 4 i) exp  
x (mm), y (mm), z (Emission / a.u.)