

Supplementary Material

1 SUPPLEMENTARY TABLES AND FIGURES

1.1 Figures

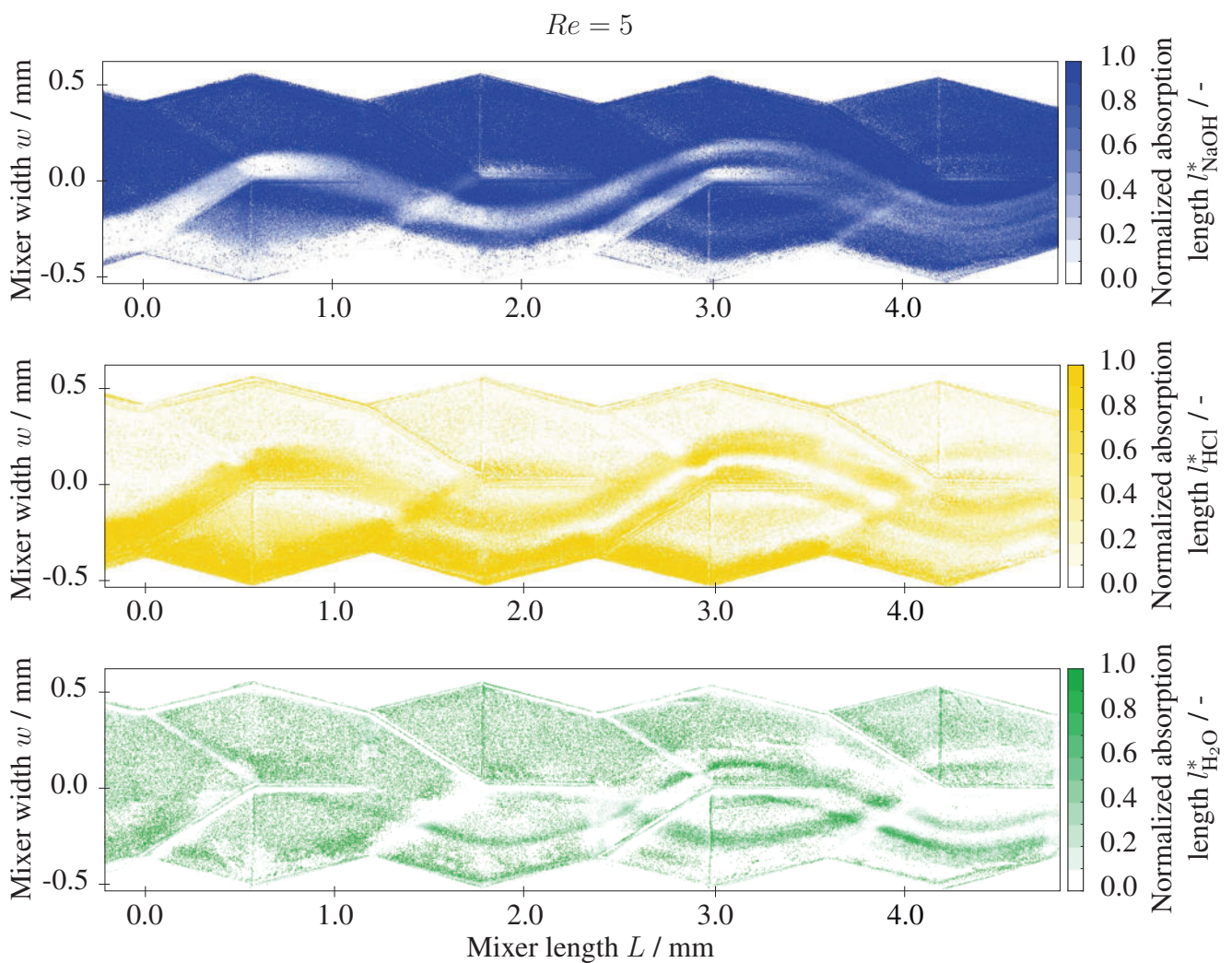


Figure S1. Normalized absorption length l^* of base (NaOH), acidic (HCl) and neutral (H₂O) solutions at $Re = 5$ in the split-and-recombine mixer inlet section, 1 M NaOH and 1 M HCl solutions in inlet with 0.001 g/g BTB.

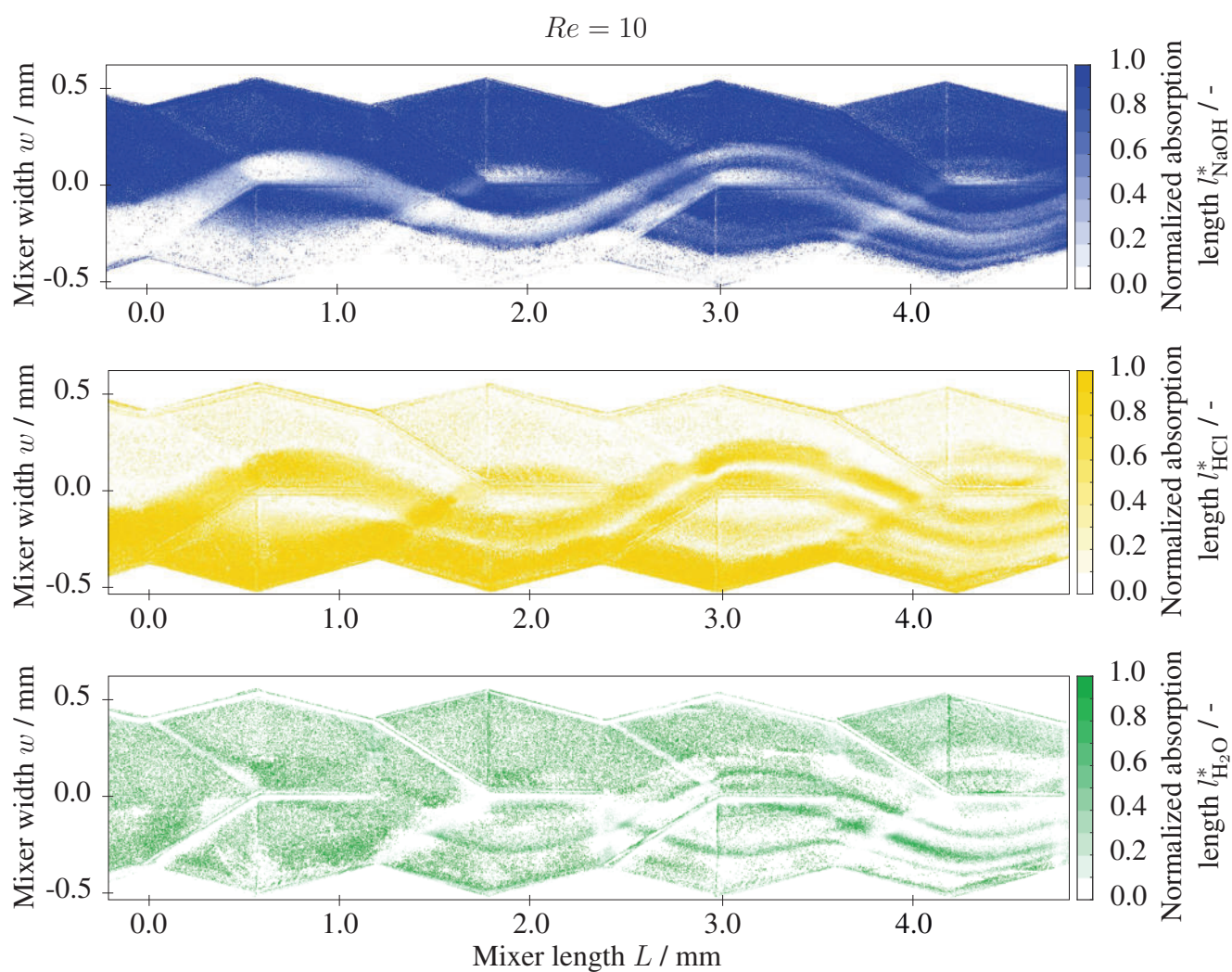


Figure S2. Normalized absorption length l^* of base (NaOH), acidic (HCl) and neutral (H₂O) solutions at $Re = 10$ in the split-and-recombine mixer inlet section, 1 M NaOH and 1 M HCl solutions in inlet with 0.001 g/g BTB.

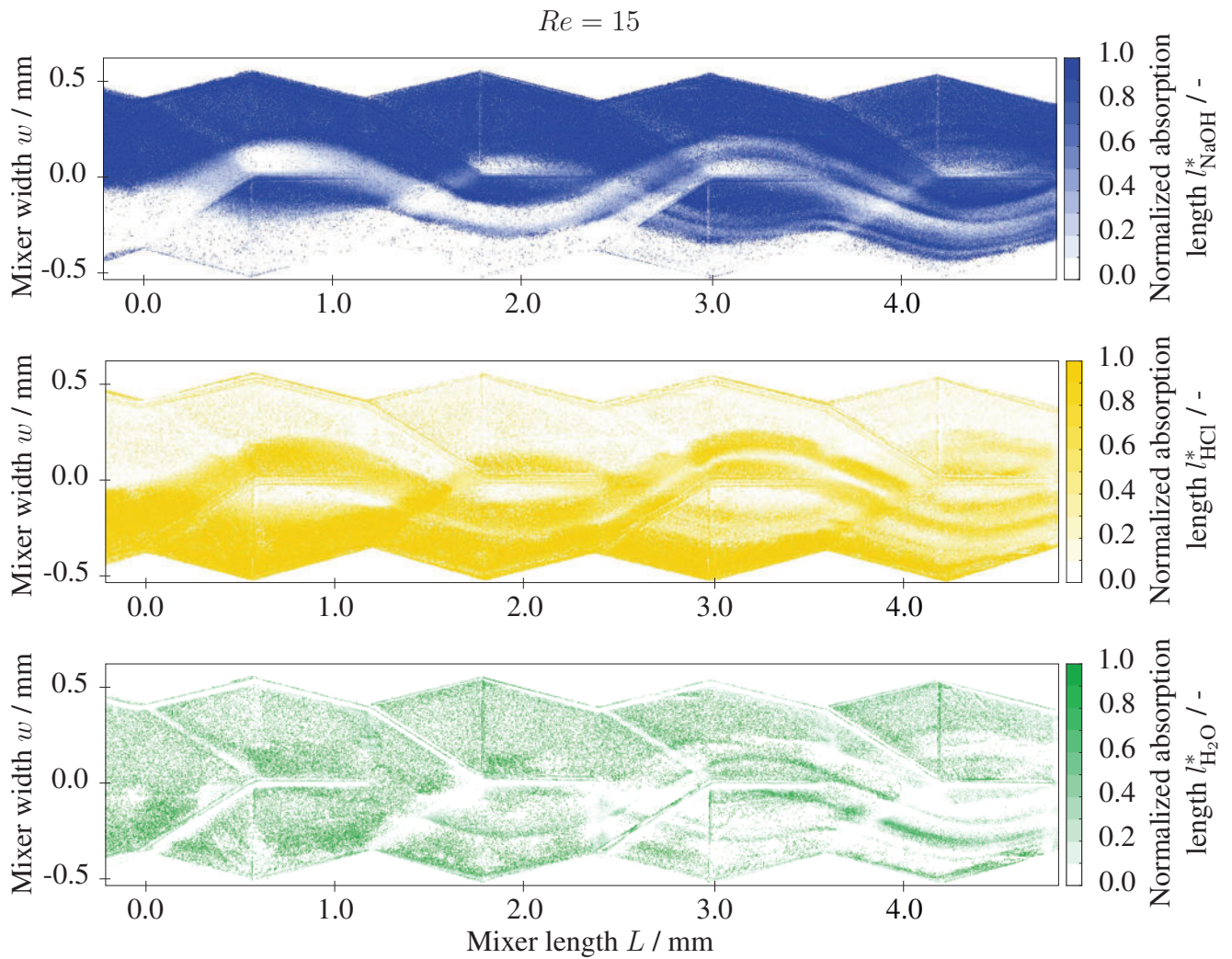


Figure S3. Normalized absorption length l^* of base (NaOH), acidic (HCl) and neutral (H_2O) solutions at $Re = 15$ in the split-and-recombine mixer inlet section, 1 M NaOH and 1 M HCl solutions in inlet with 0.001 g/g BTB.

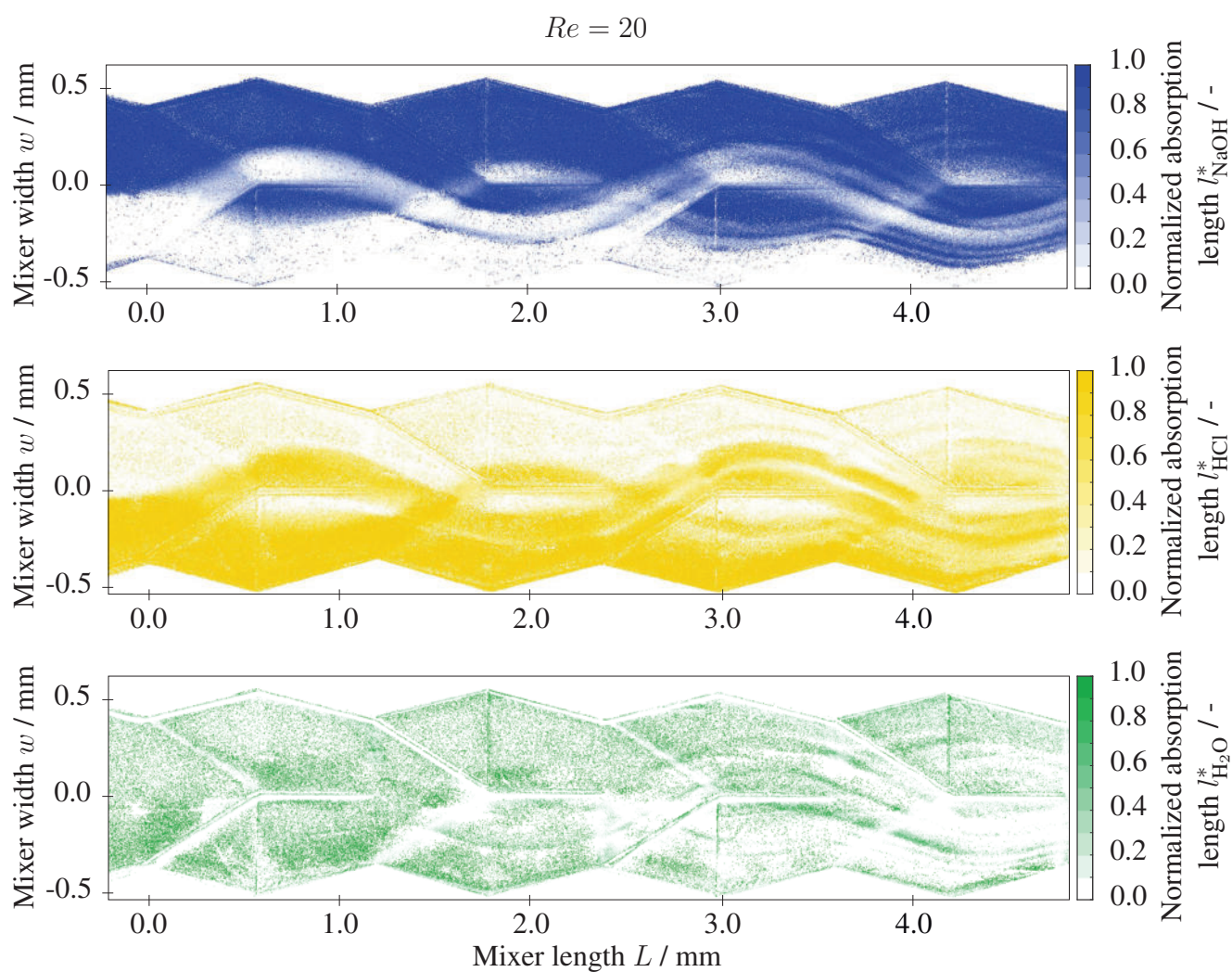


Figure S4. Normalized absorption length l^* of base (NaOH), acidic (HCl) and neutral (H_2O) solutions at $Re = 20$ in the split-and-recombine mixer inlet section, 1 M NaOH and 1 M HCl solutions in inlet with 0.001 g/g BTB.

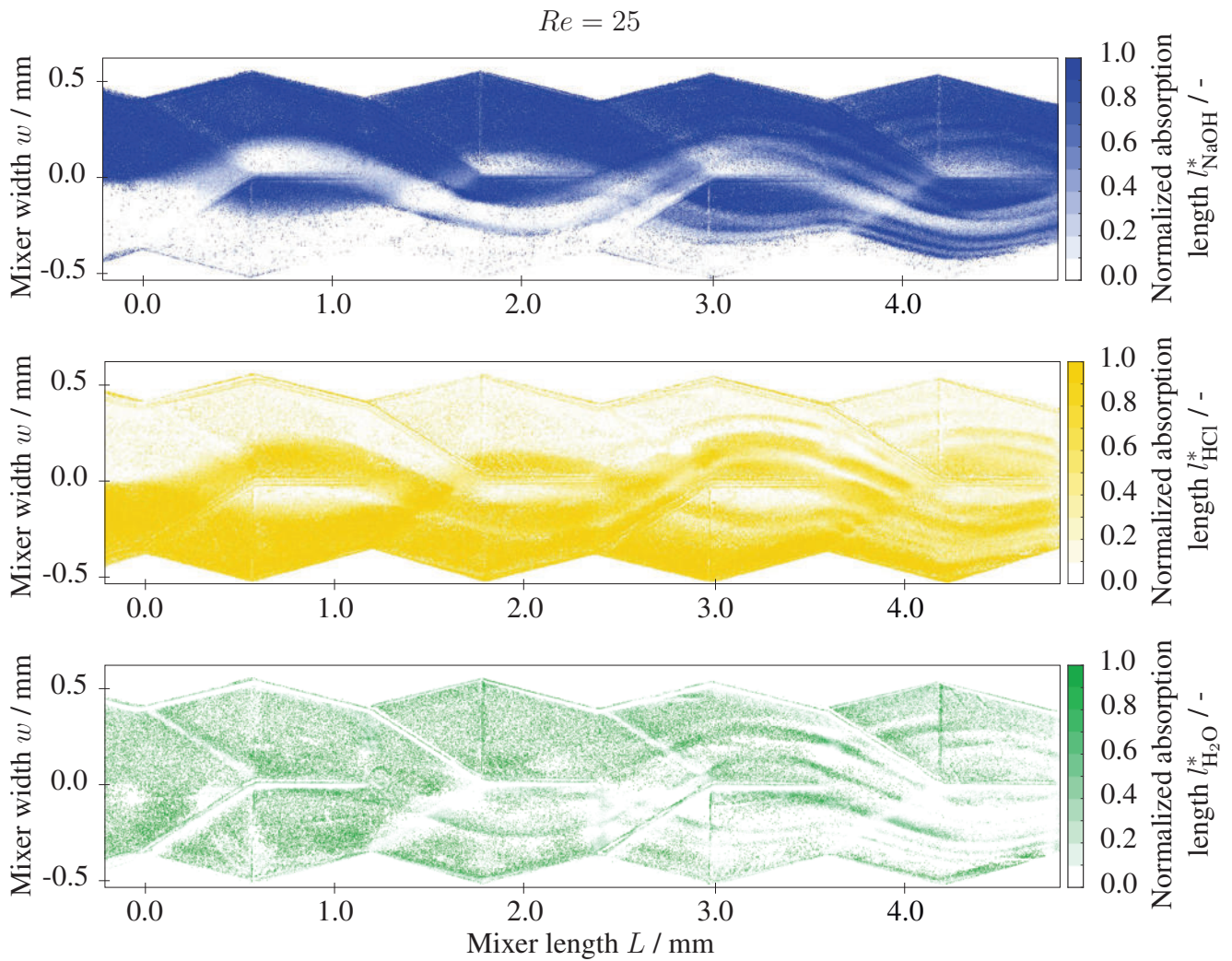


Figure S5. Normalized absorption length l^* of base (NaOH), acidic (HCl) and neutral (H_2O) solutions at $Re = 25$ in the split-and-recombine mixer inlet section, 1 M NaOH and 1 M HCl solutions in inlet with 0.001 g/g BTB.

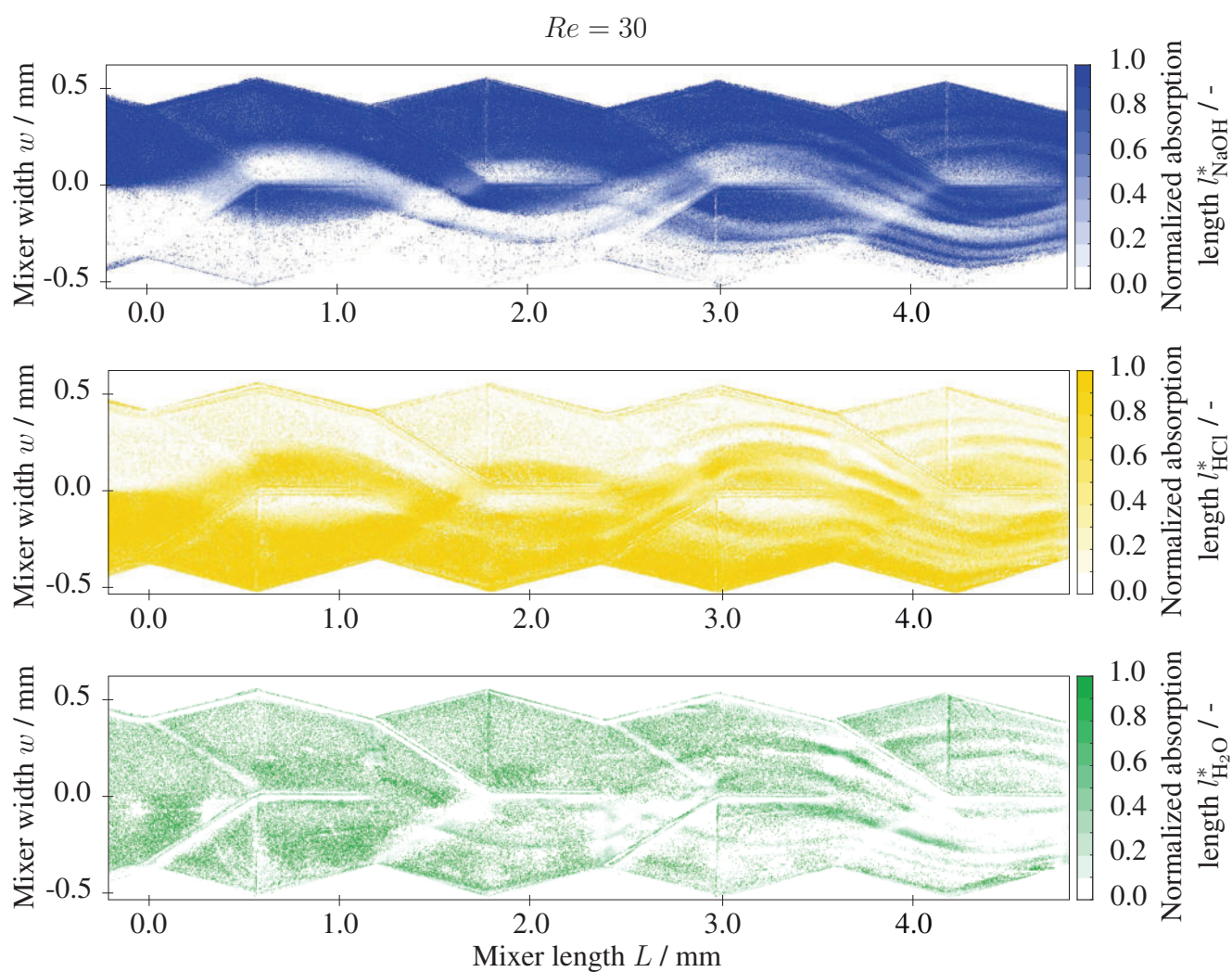


Figure S6. Normalized absorption length l^* of base (NaOH), acidic (HCl) and neutral (H_2O) solutions at $Re = 30$ in the split-and-recombine mixer inlet section, 1 M NaOH and 1 M HCl solutions in inlet with 0.001 g/g BTB.

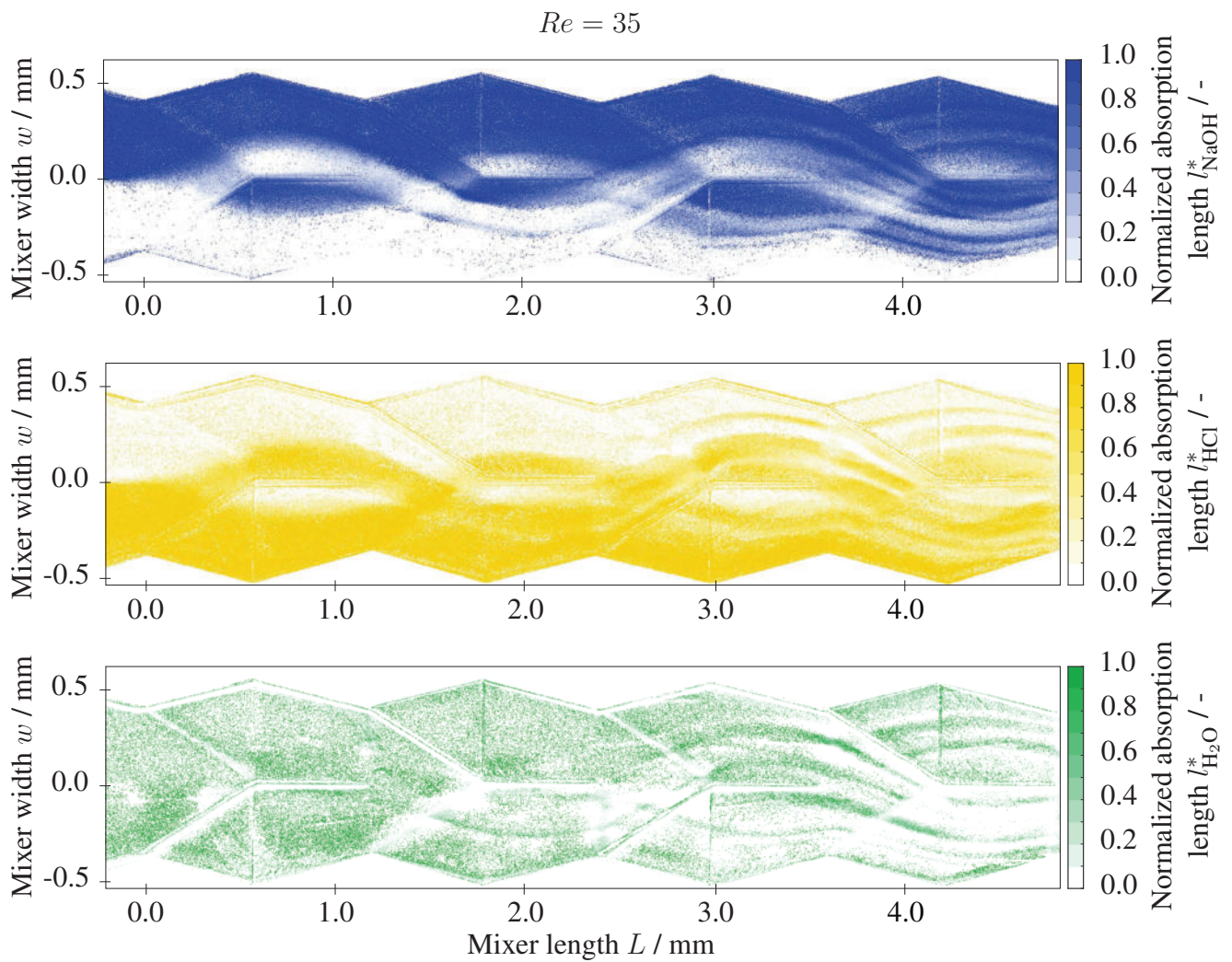


Figure S7. Normalized absorption length l^* of base (NaOH), acidic (HCl) and neutral (H_2O) solutions at $Re = 35$ in the split-and-recombine mixer inlet section, 1 M NaOH and 1 M HCl solutions in inlet with 0.001 g/g BTB.

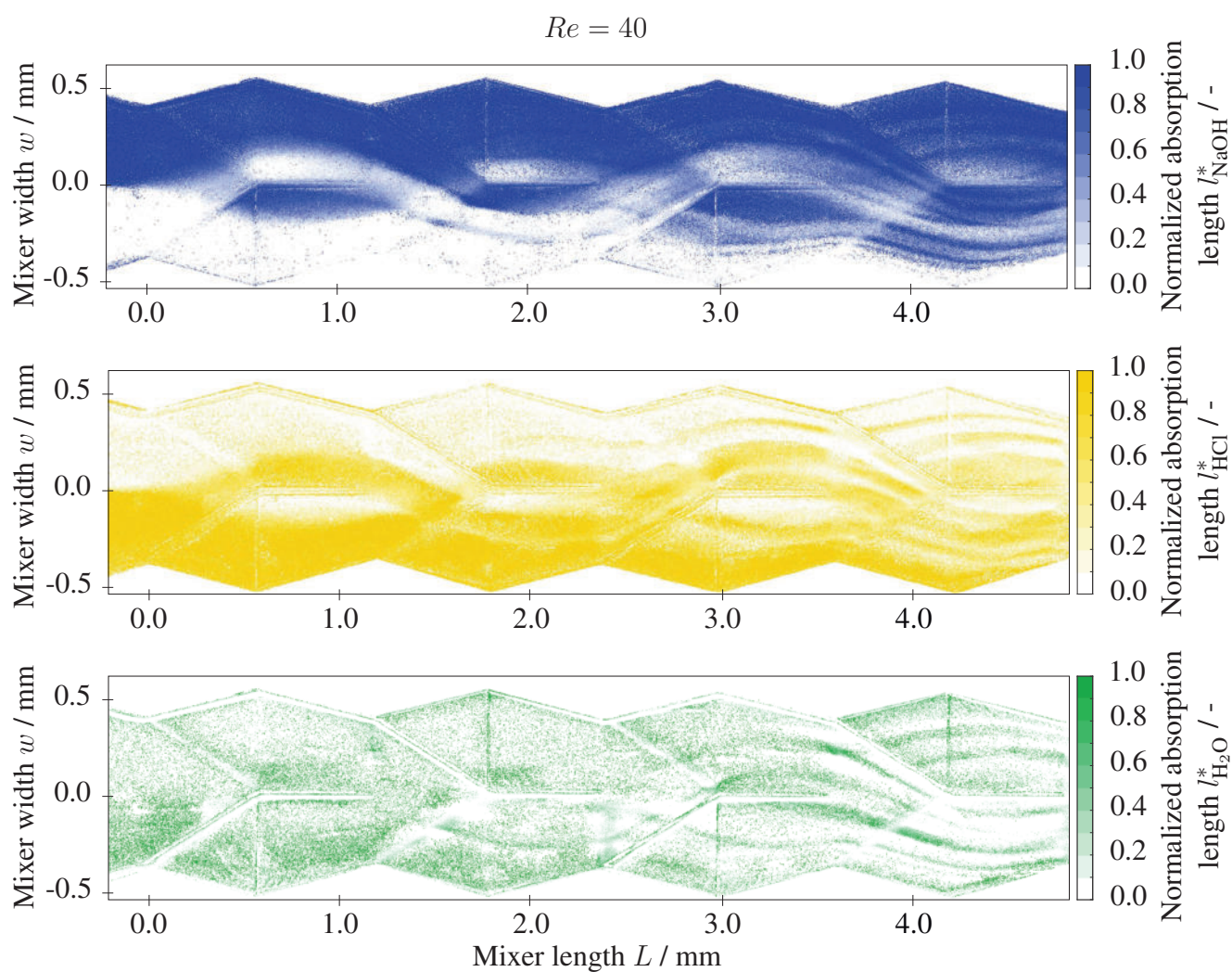


Figure S8. Normalized absorption length l^* of base (NaOH), acidic (HCl) and neutral (H_2O) solutions at $Re = 40$ in the split-and-recombine mixer inlet section, 1 M NaOH and 1 M HCl solutions in inlet with 0.001 g/g BTB.

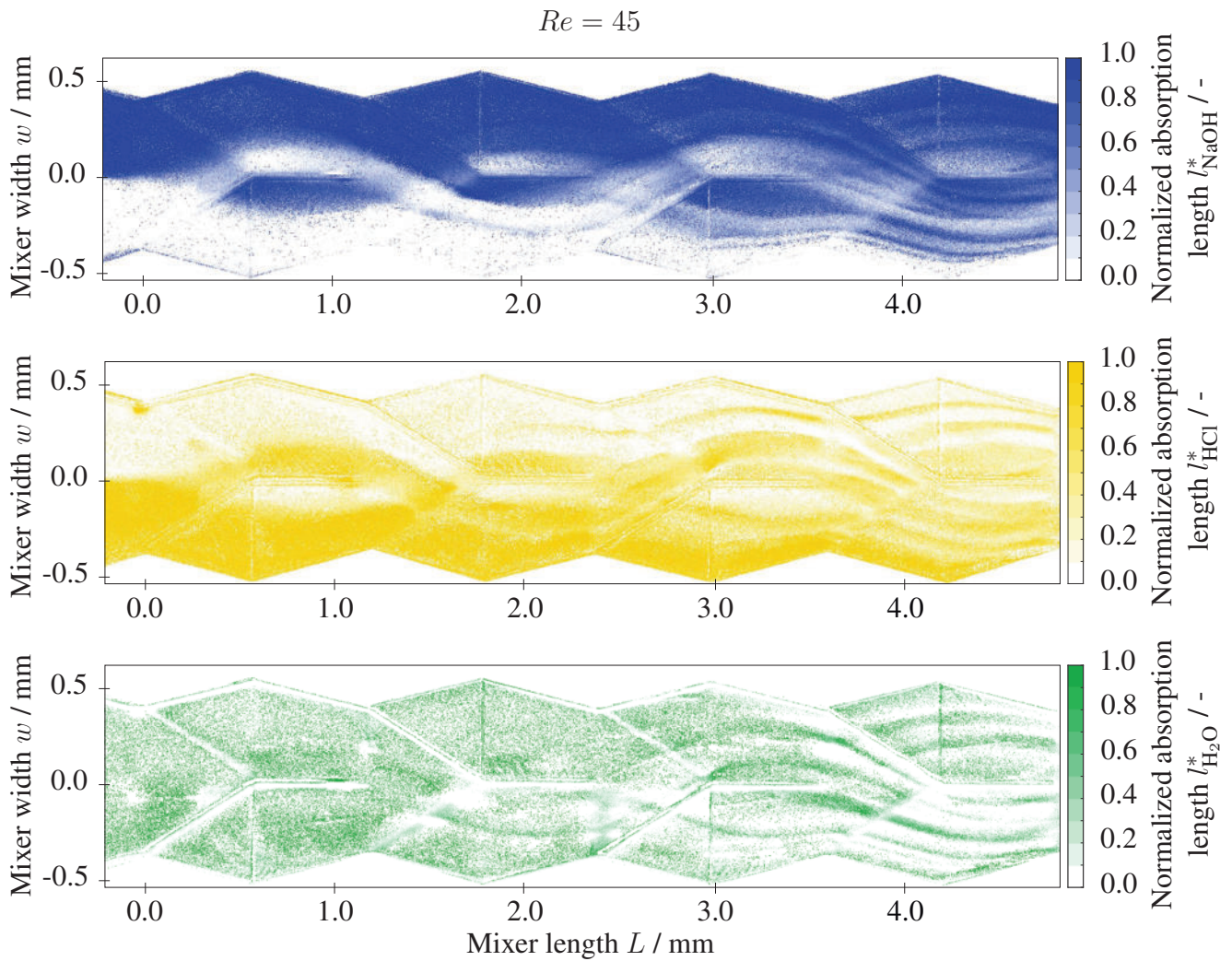


Figure S9. Normalized absorption length l^* of base (NaOH), acidic (HCl) and neutral (H_2O) solutions at $Re = 45$ in the split-and-recombine mixer inlet section, 1 M NaOH and 1 M HCl solutions in inlet with 0.001 g/g BTB.

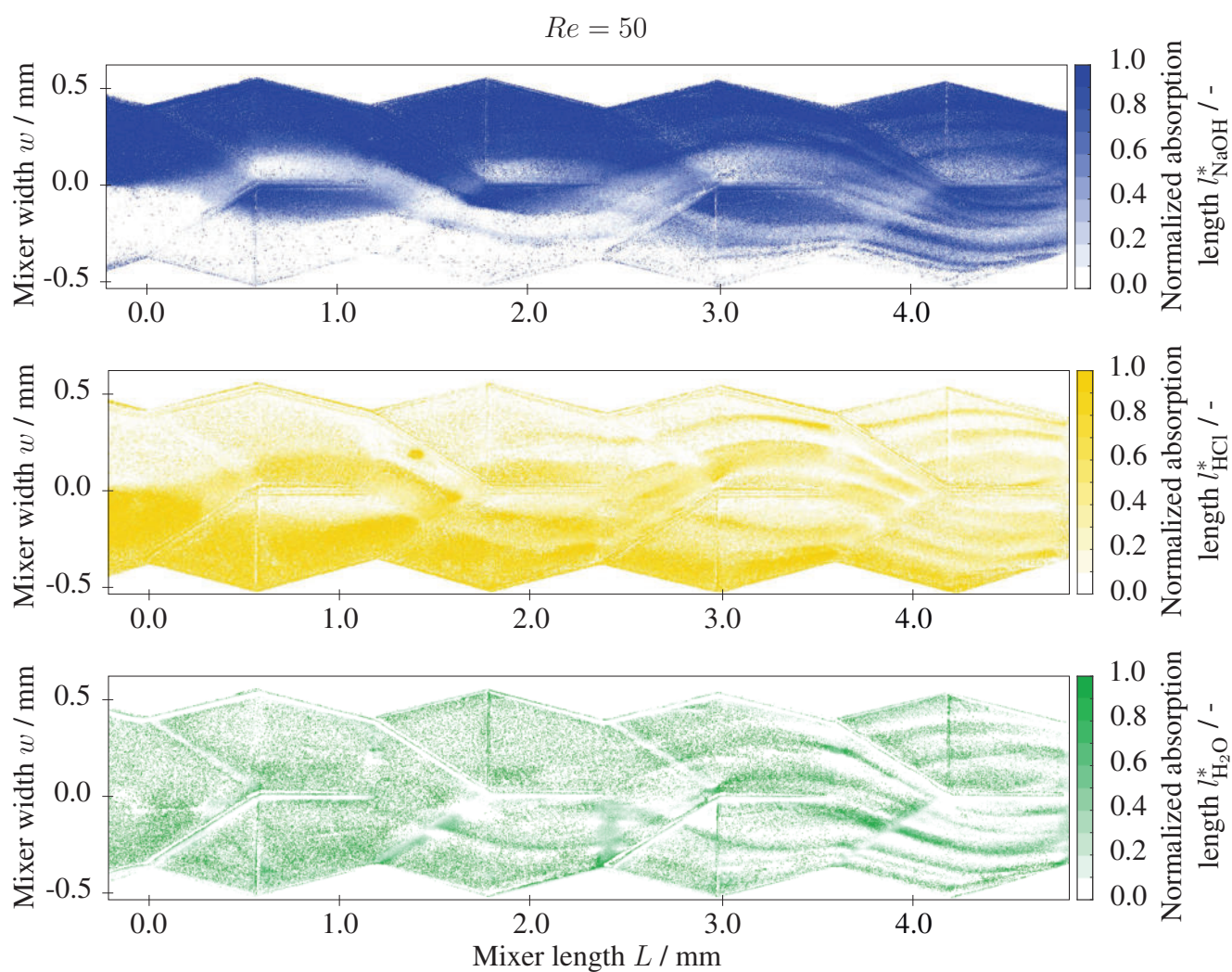


Figure S10. Normalized absorption length l^* of base (NaOH), acidic (HCl) and neutral (H_2O) solutions at $Re = 50$ in the split-and-recombine mixer inlet section, 1 M NaOH and 1 M HCl solutions in inlet with 0.001 g/g BTB.

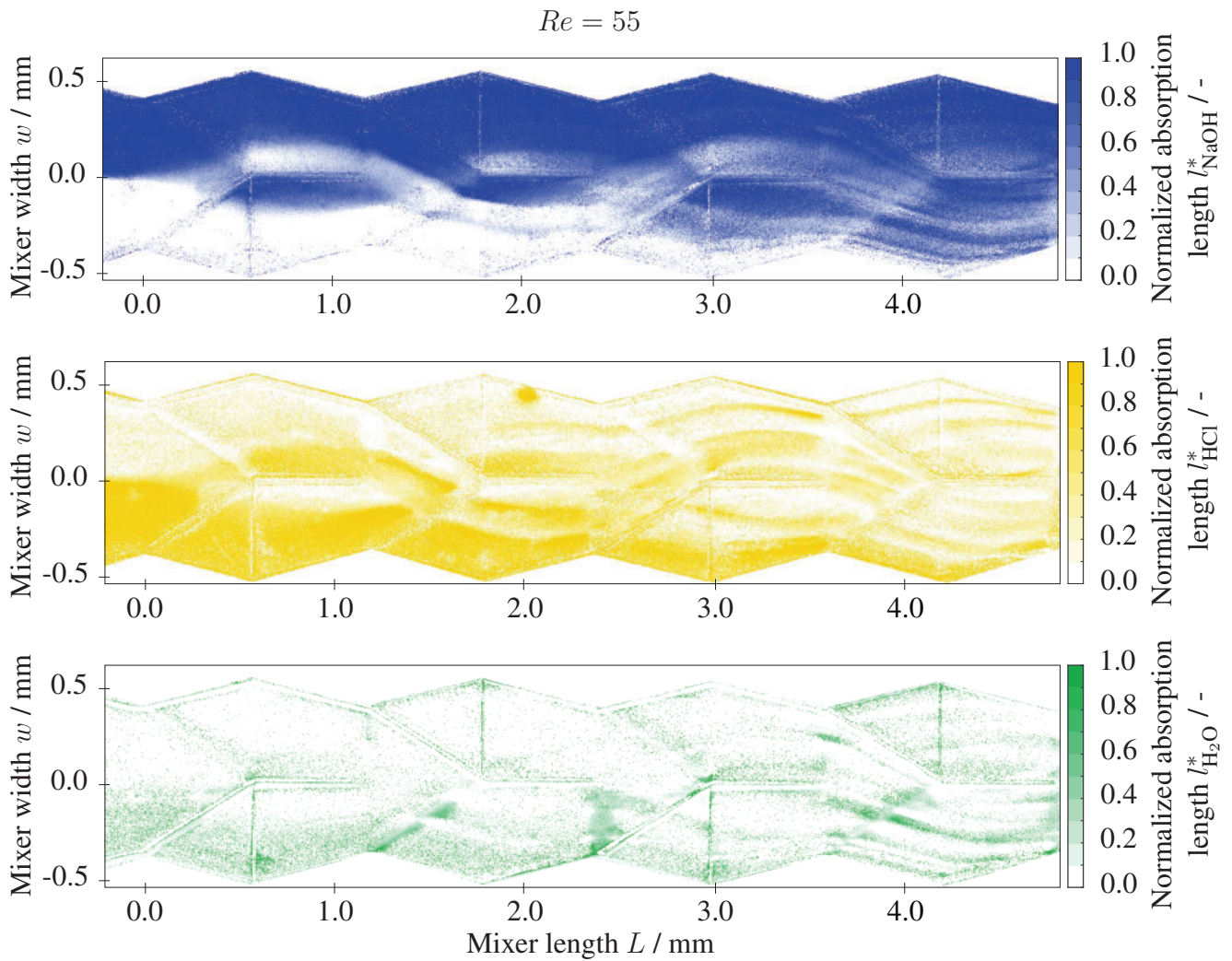


Figure S11. Normalized absorption length l^* of base (NaOH), acidic (HCl) and neutral (H_2O) solutions at $Re = 55$ in the split-and-recombine mixer inlet section, 1 M NaOH and 1 M HCl solutions in inlet with 0.001 g/g BTB.