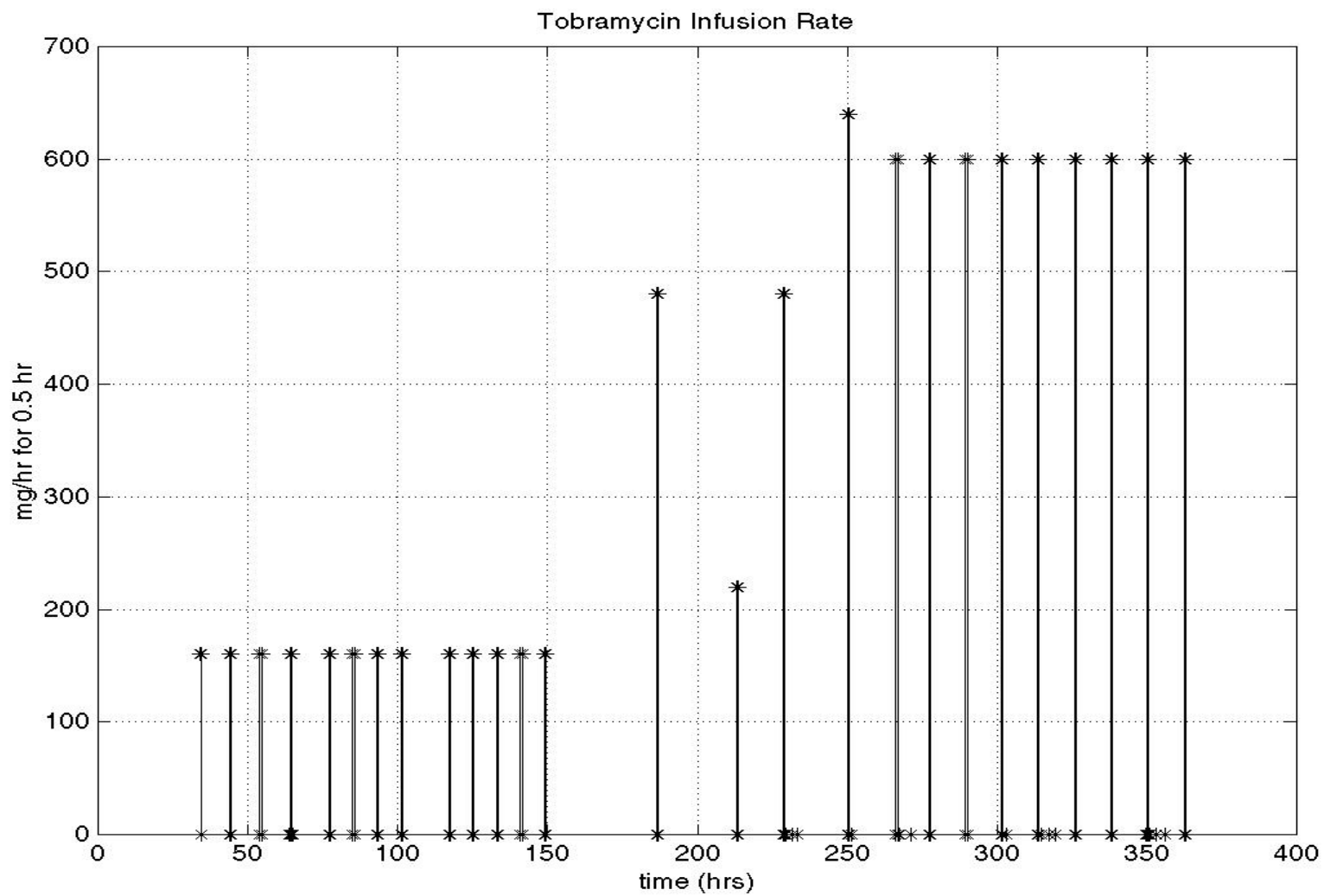
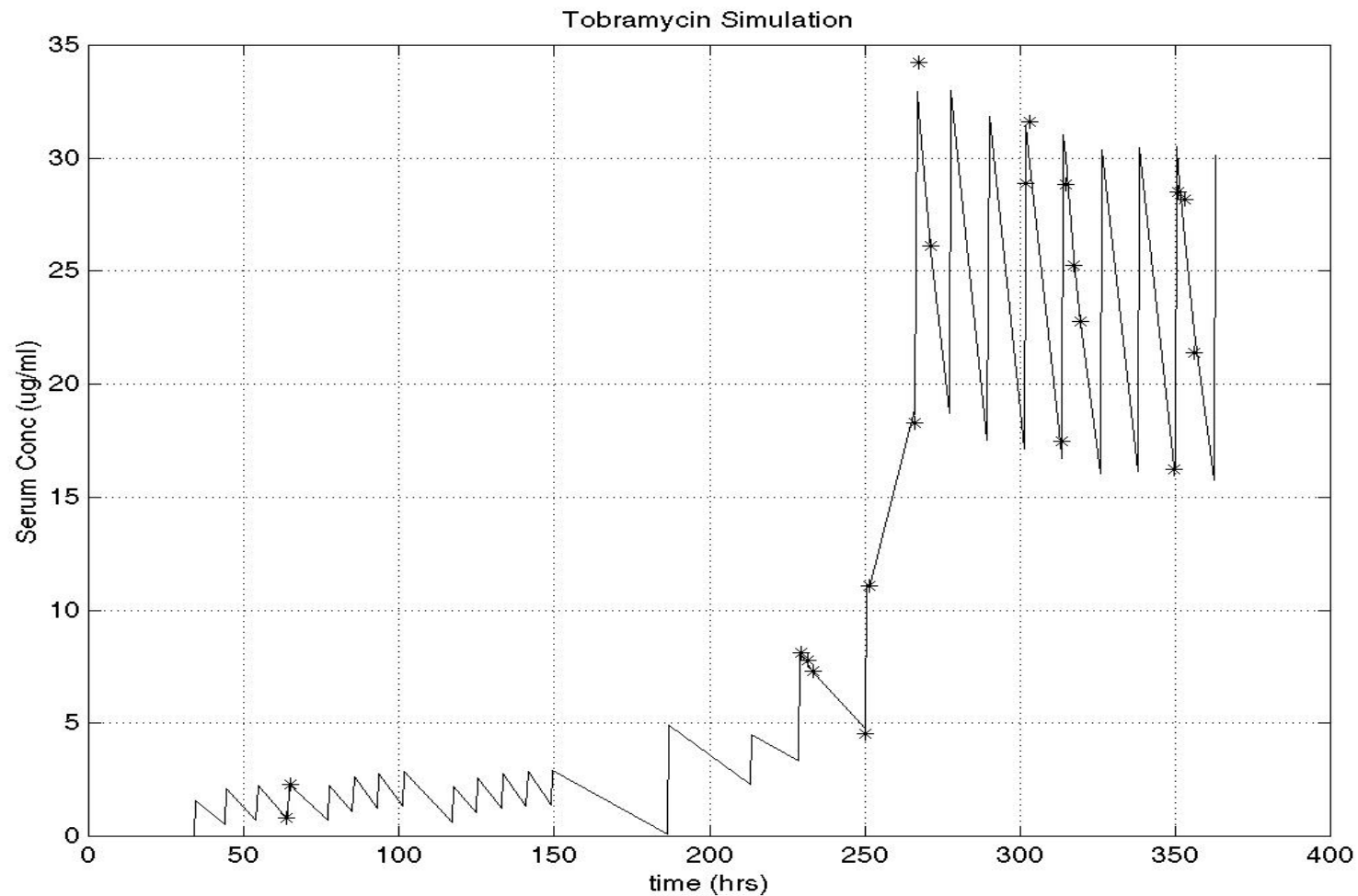


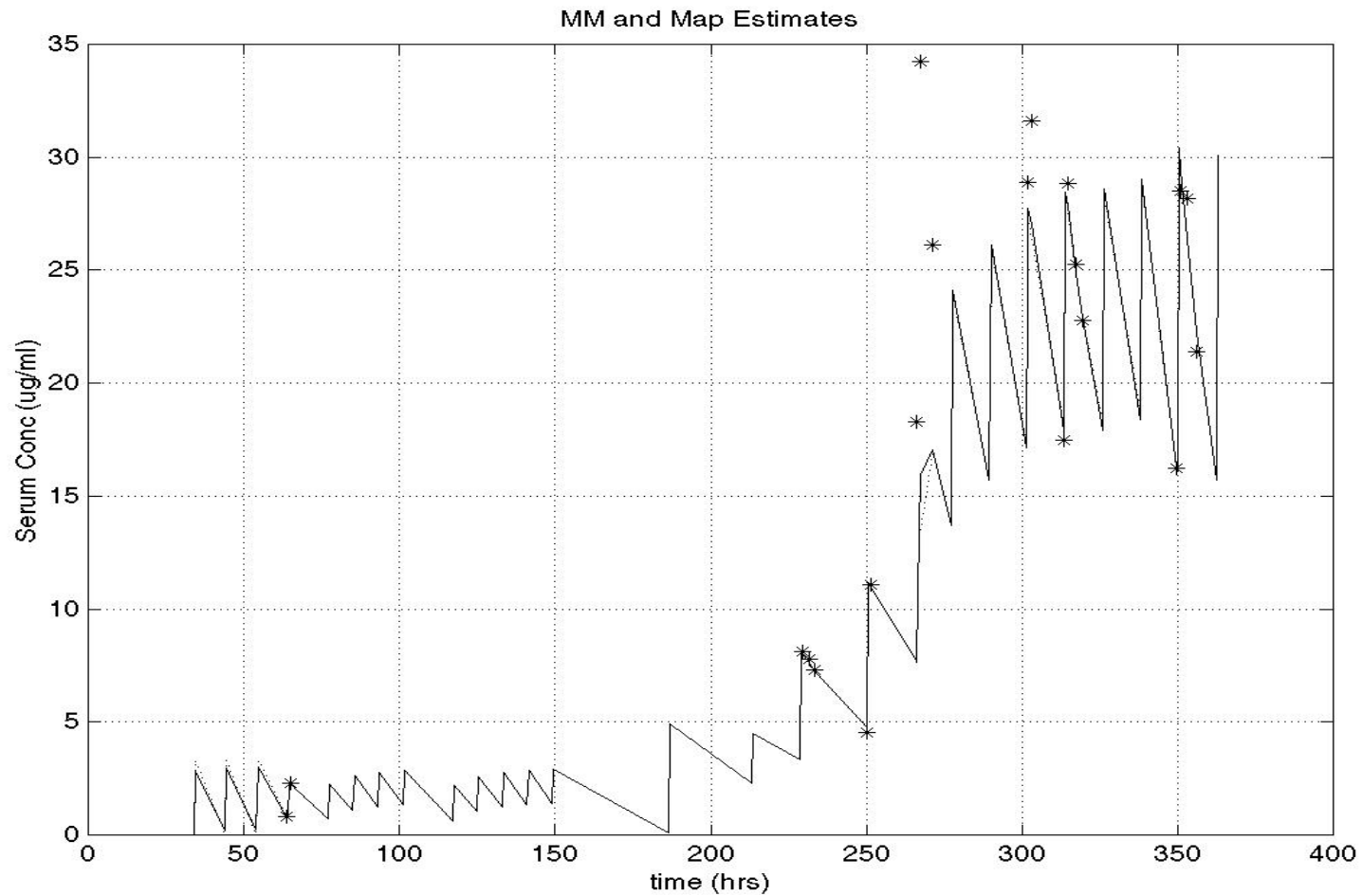
Interacting Multiple Model
Sequential Bayesian posterior
joint parameter densities to detect
changing parameter values during
the period of data analysis.



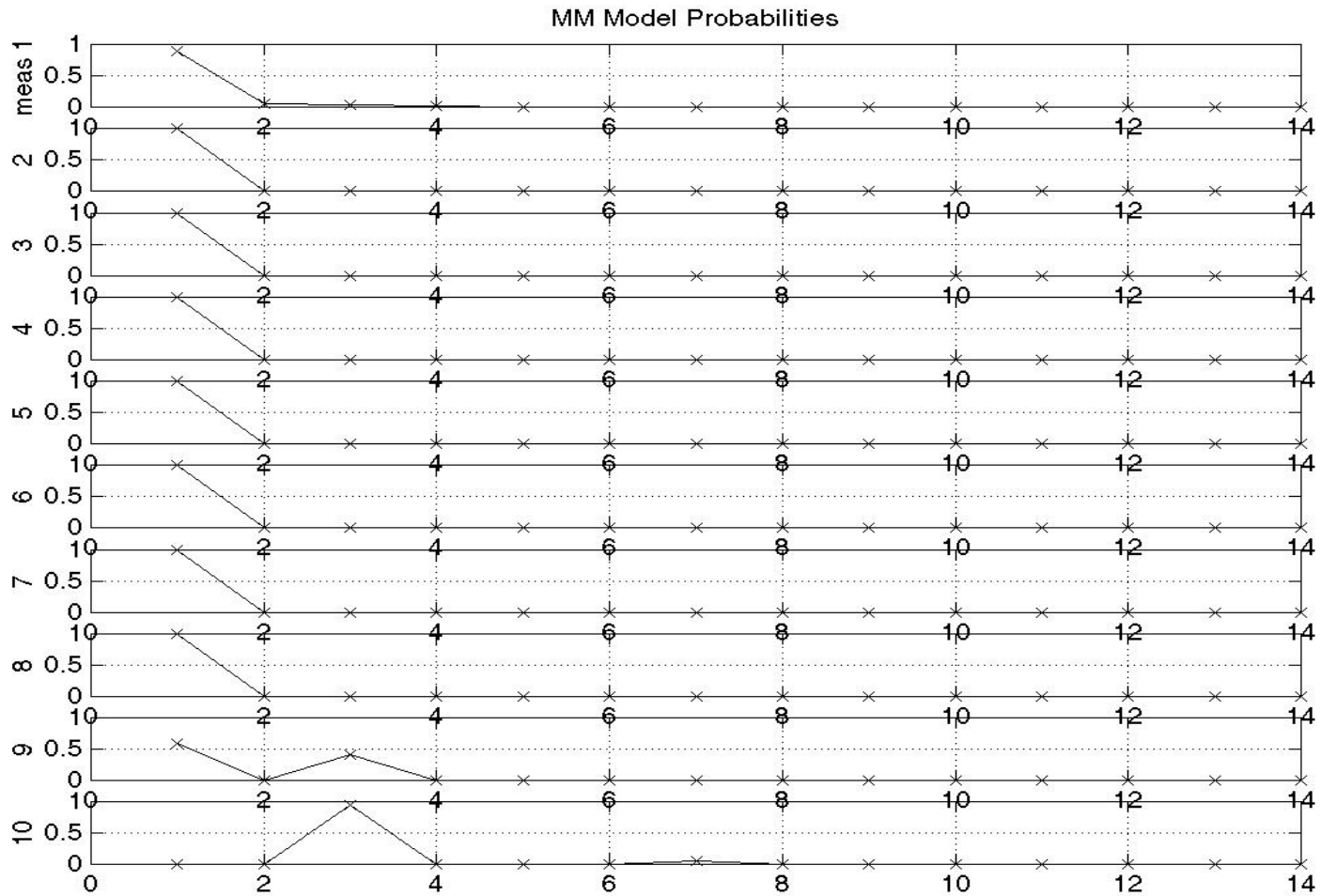
Tobramycin simulated dosage regimen



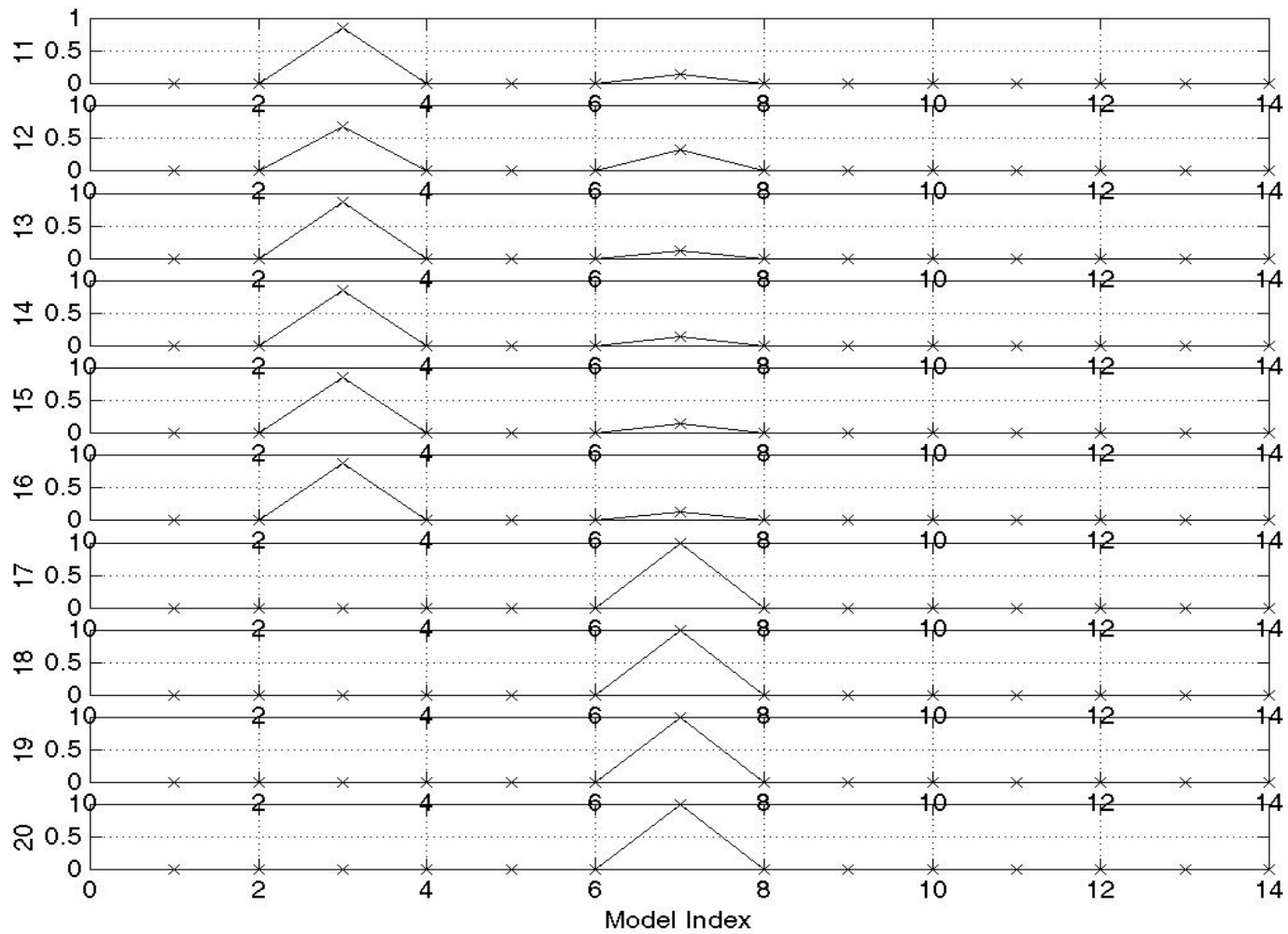
Tobramycin simulated response: True = solid,
noisy serum levels = *



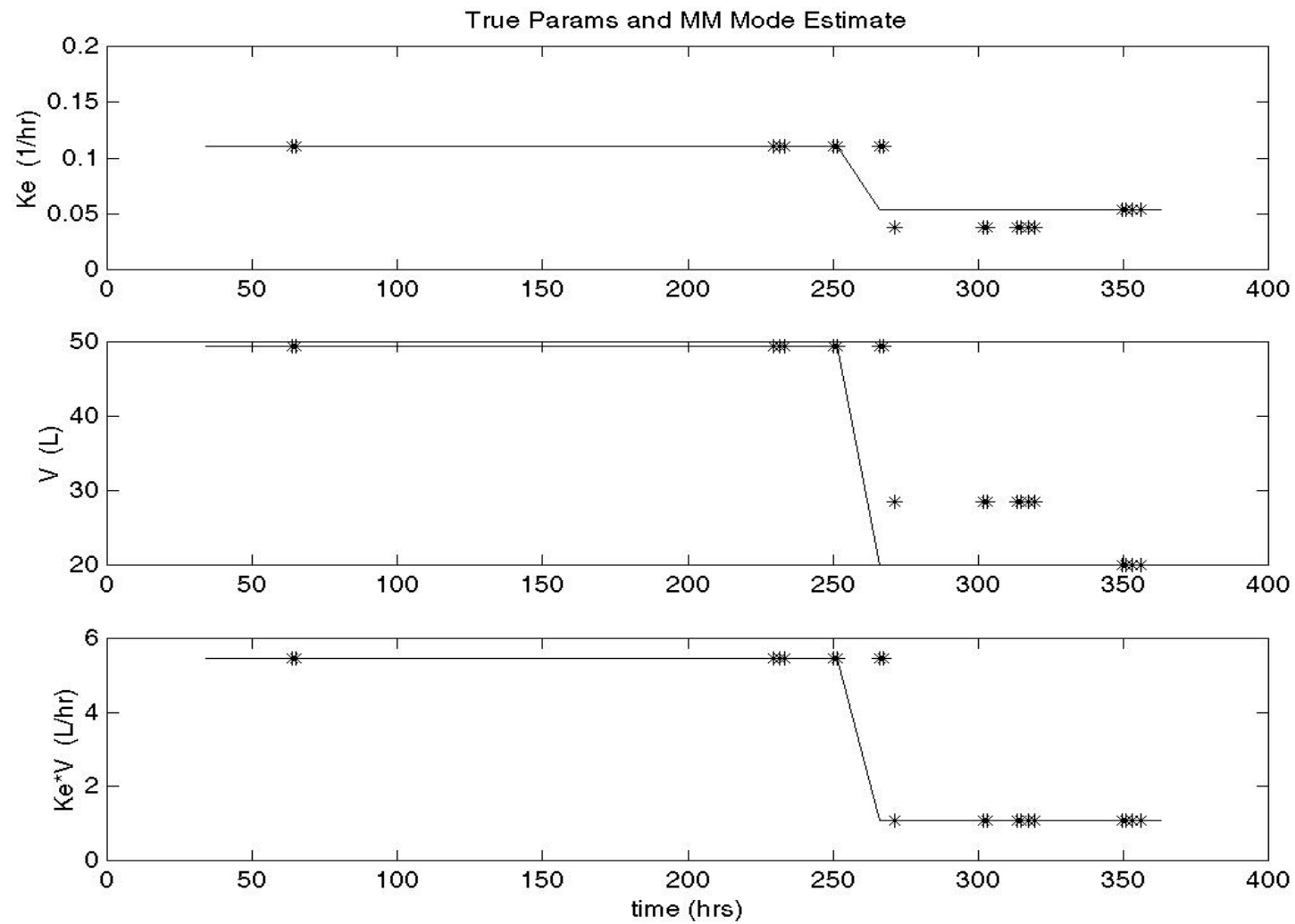
MM (solid) and MAP (dotted) Bayesian estimates of serum levels (*)



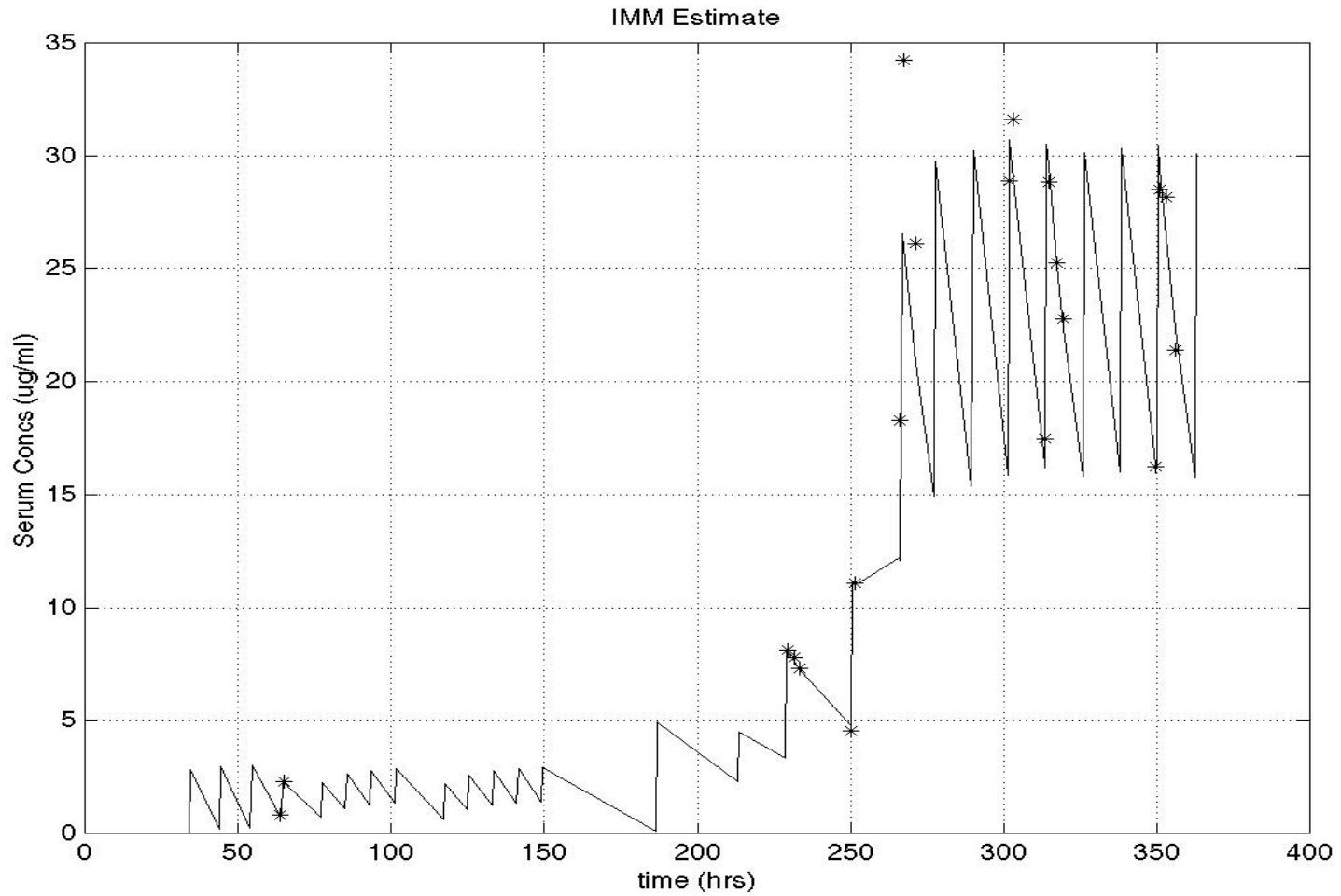
MM Model probabilities - 1st 10 levels



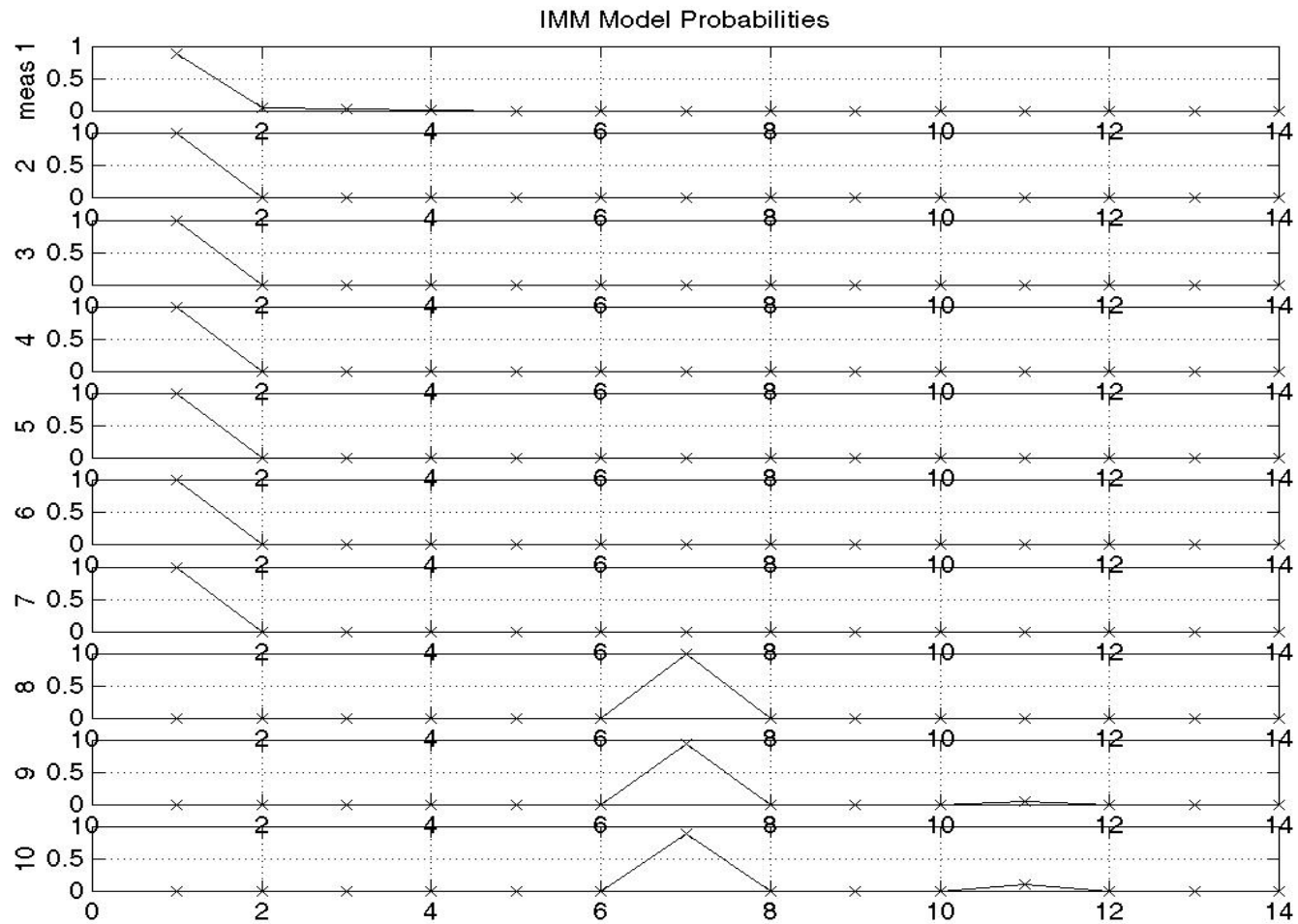
MM model probabilities - 2nd 10 levels



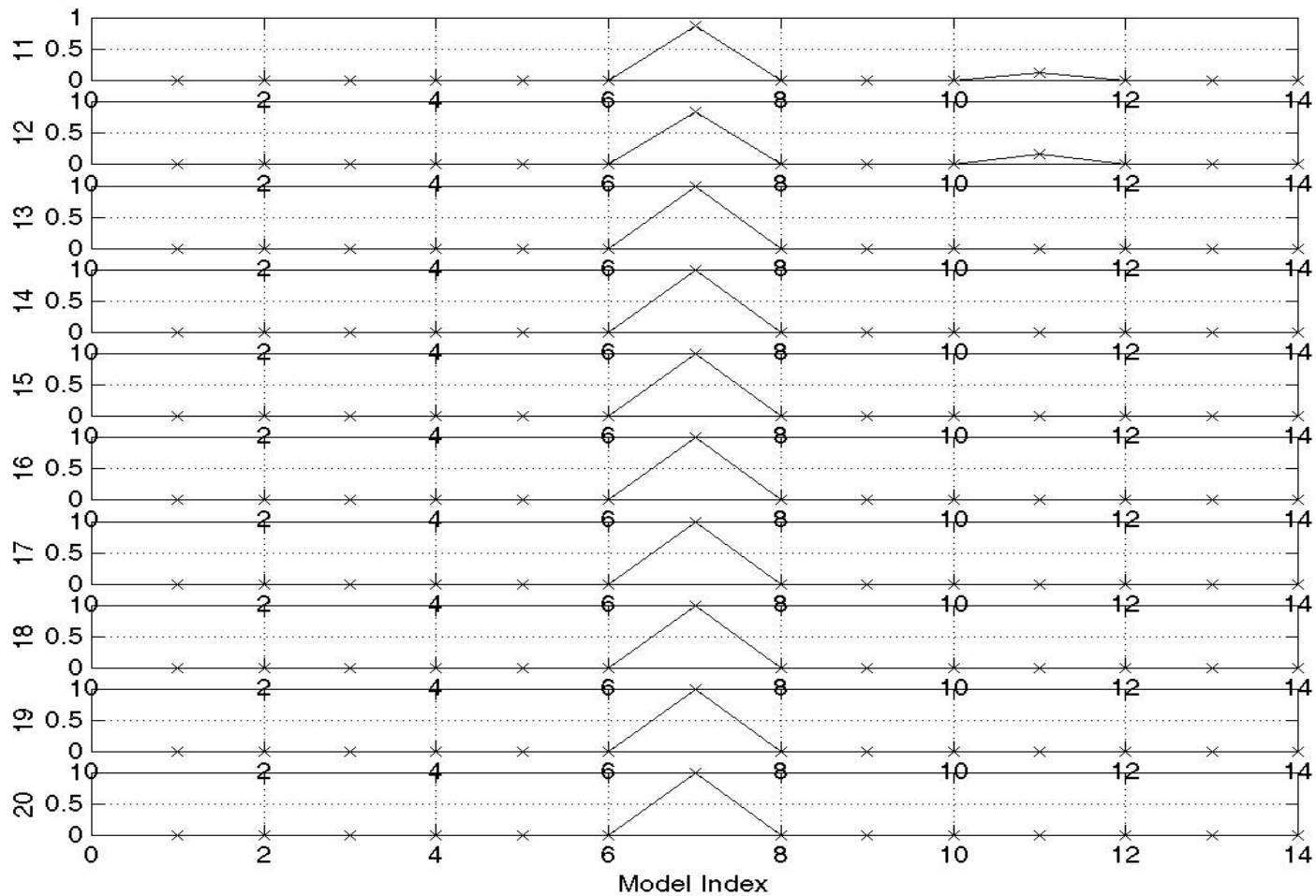
PK parameter values: True (solid) and MM mode estimates



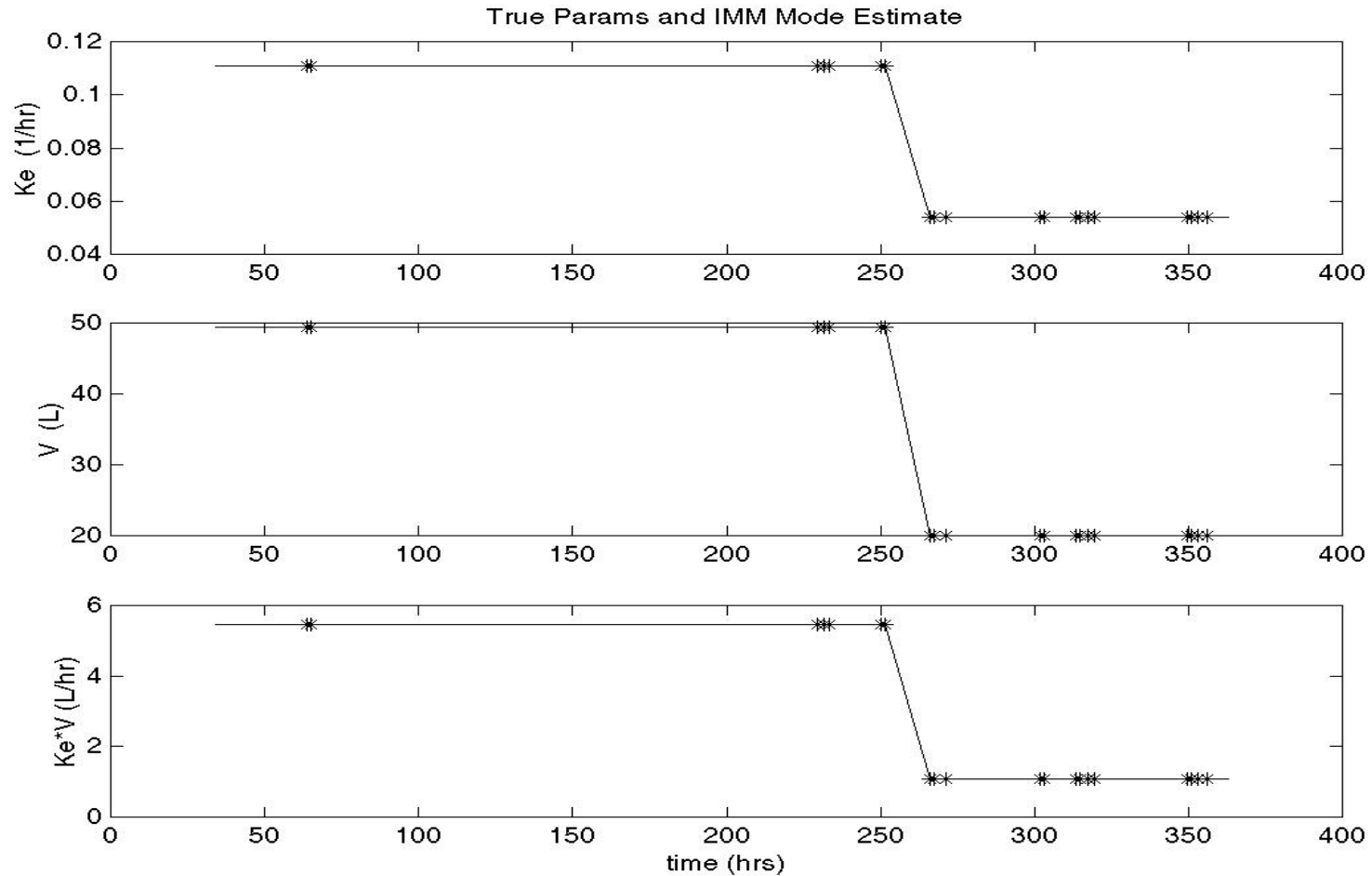
IMM (solid) estimates of serum levels (*)



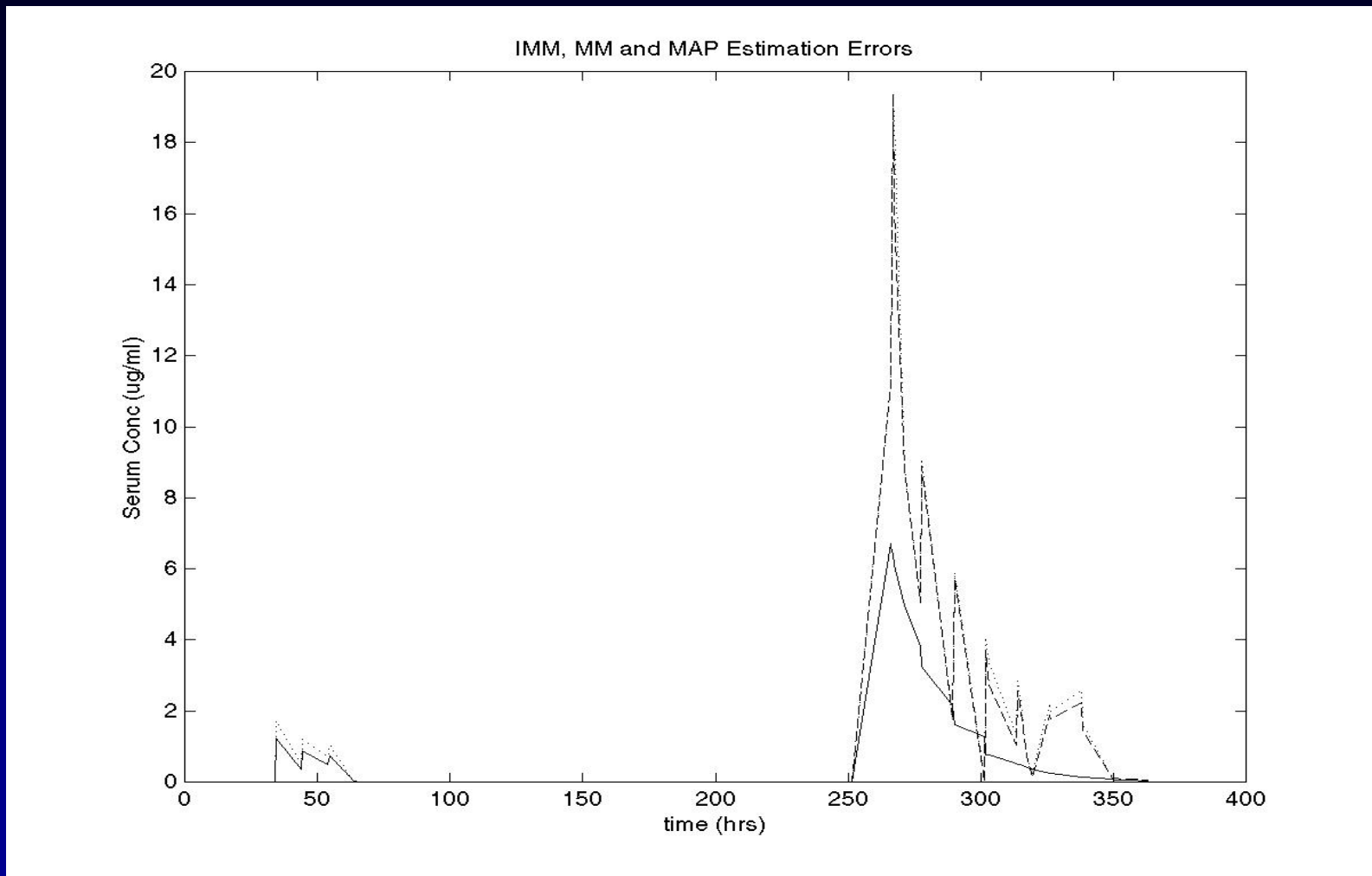
IMM Model probabilities - 1st 10 levels



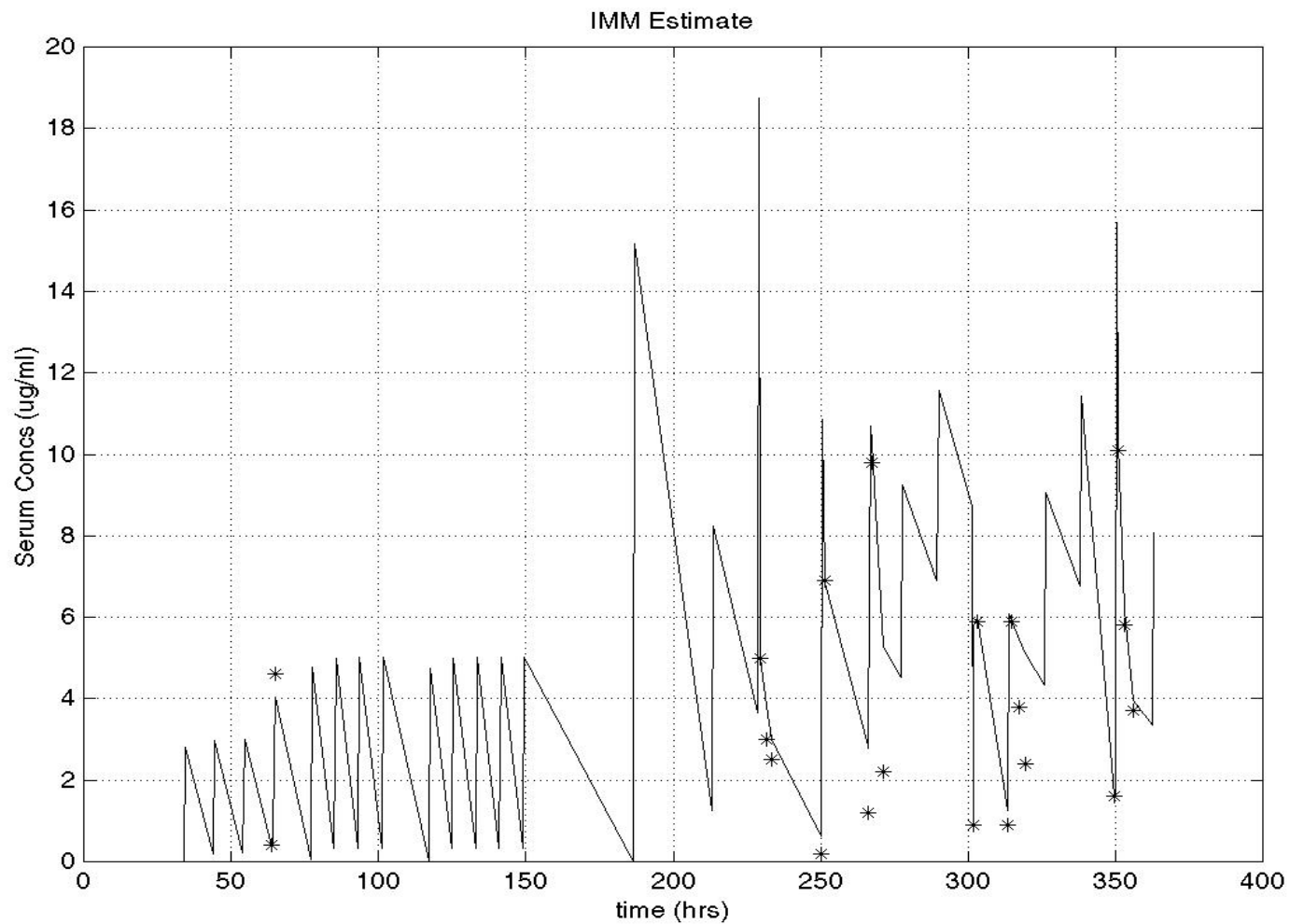
IMM Model probabilities - 2nd 10 levels



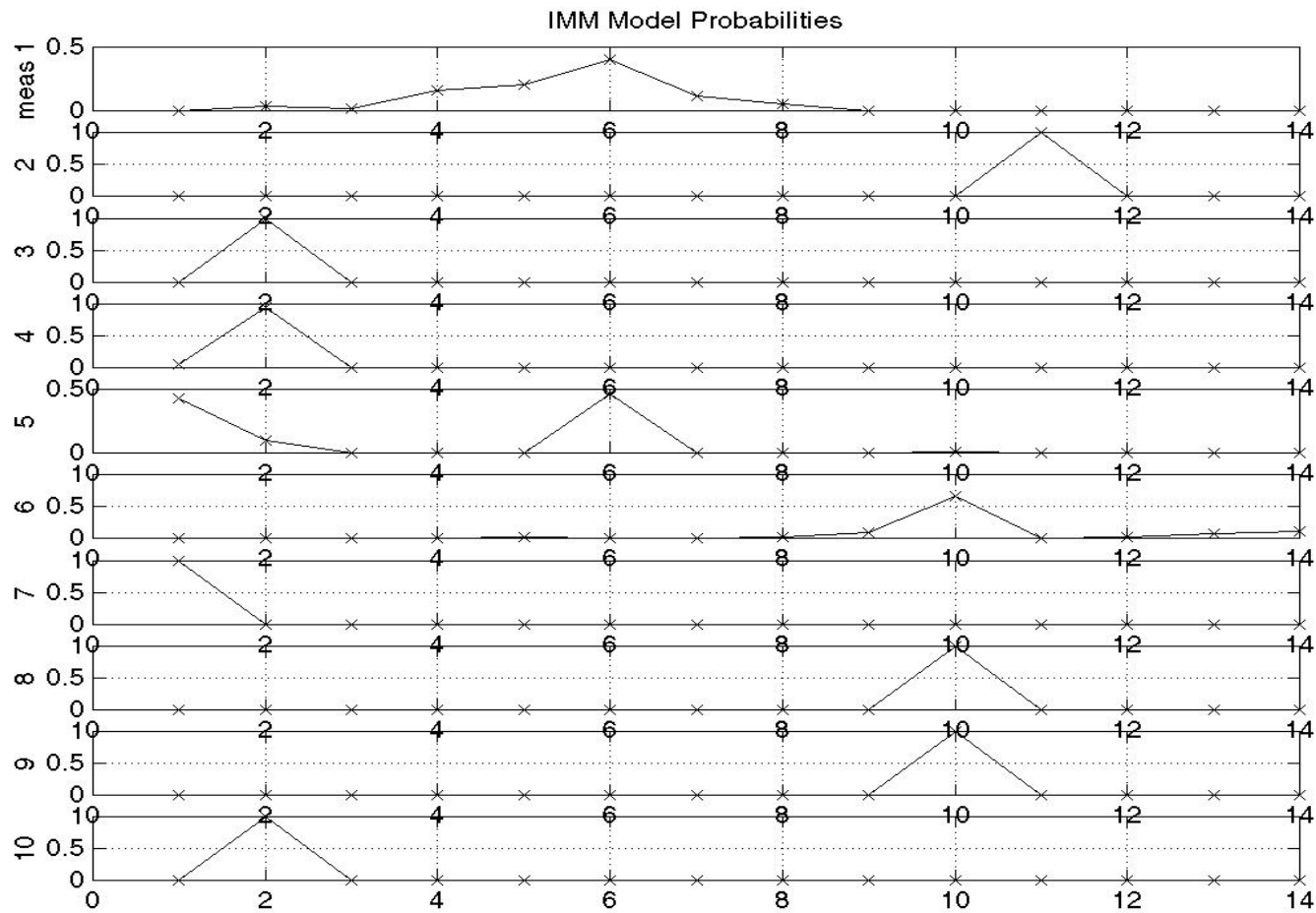
PK Parameter values: true (solid) and IMM mode estimates (*)



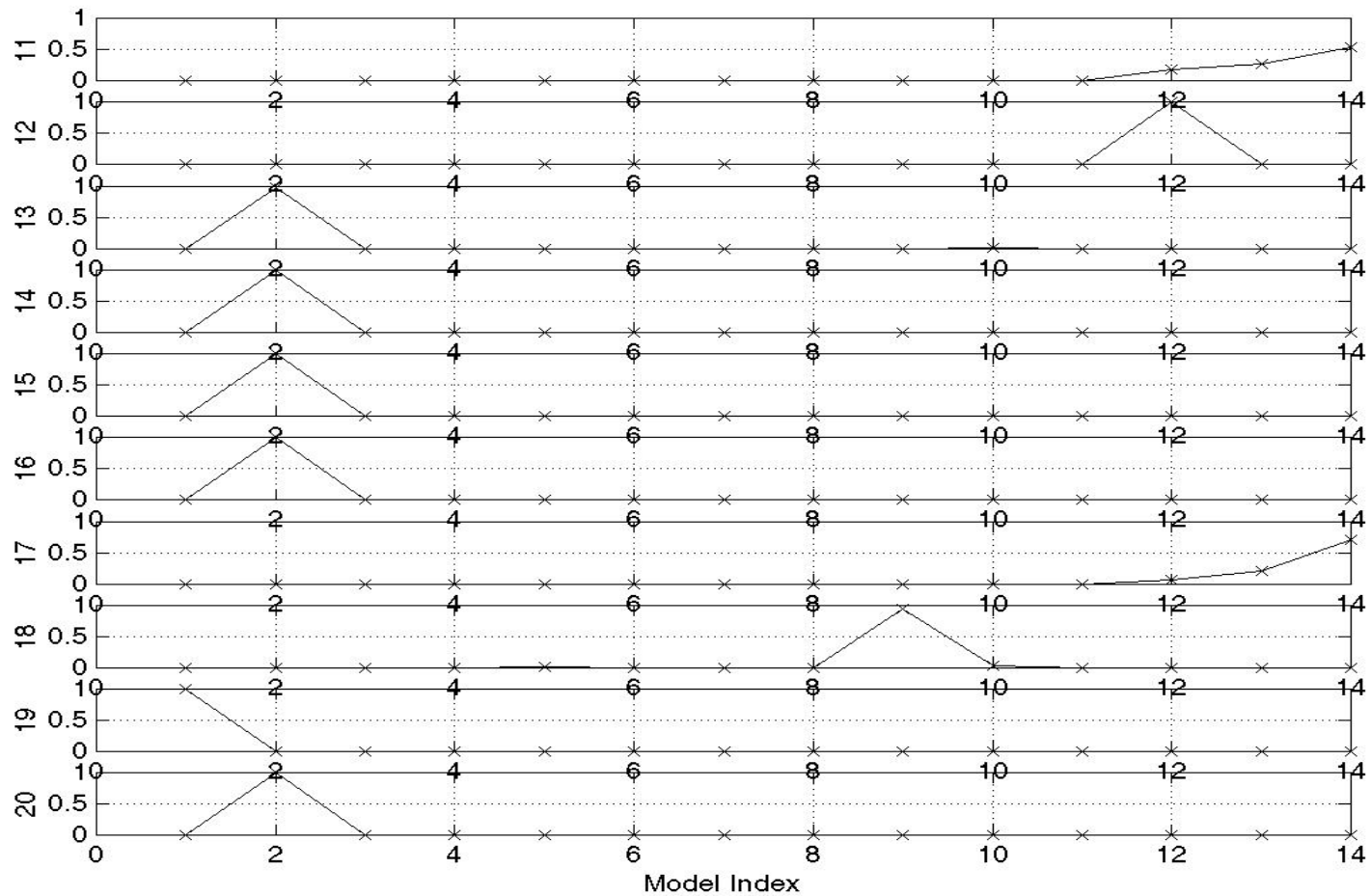
Estimation errors for IMM (solid), MM (dashed) and MAP (dotted) Bayesian methods. Simulated jump in param values at $t = 255$ hours



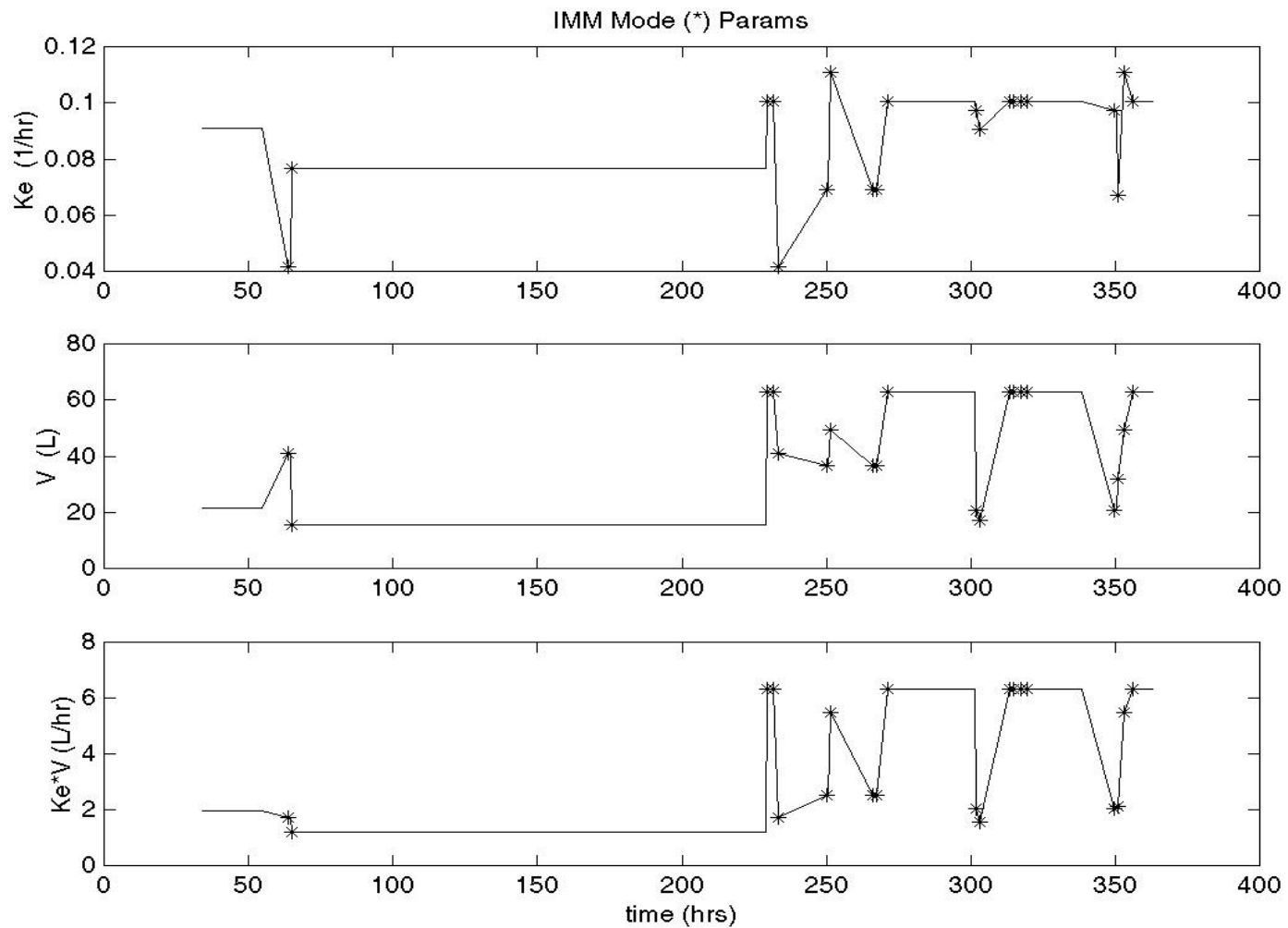
IMM estimates of levels (solid) and measured data (*) for the patient's real data set. Septic shock occurred at $t = 180$ hours



Clinical data set: model probabilities for 1st 10 levels



Clinical data set: model probabilities for 2nd 10 levels



PK parameter estimates (*) for the clinical data set