Fig. 7 – Sensitivity analysis of microbial attachment to detachment ratio ($k_a/k_d$) values of 6.40, 32.02 and 64.04 onto porous rock surface using Microbe 3, $d_x = 2.88 \times 10^{-2}$ h$^{-1}$ and $t_{pulsel} = 57.6$ h within sandstone core of intermediate heterogeneity ($a_0 = -1.7$, $\beta_{min} = 0.75$) during MEOR under varying temperature, salinity and pH conditions: temporal distributions of (a) microbial concentration at $x = 0.6$ m from the influent point; (b) total volume fraction of microbes attached reversibly and irreversibly onto sandstone rock surface at $x = 0.004$ m; (c) effective porosity of the sandstone rock core at $x = 0.004$ m; (d) intrinsic or absolute permeability of the sandstone core at $x = 0.004$ m; and (e) in-Situ produced biosurfactant concentration at $x = 0.8$ m.