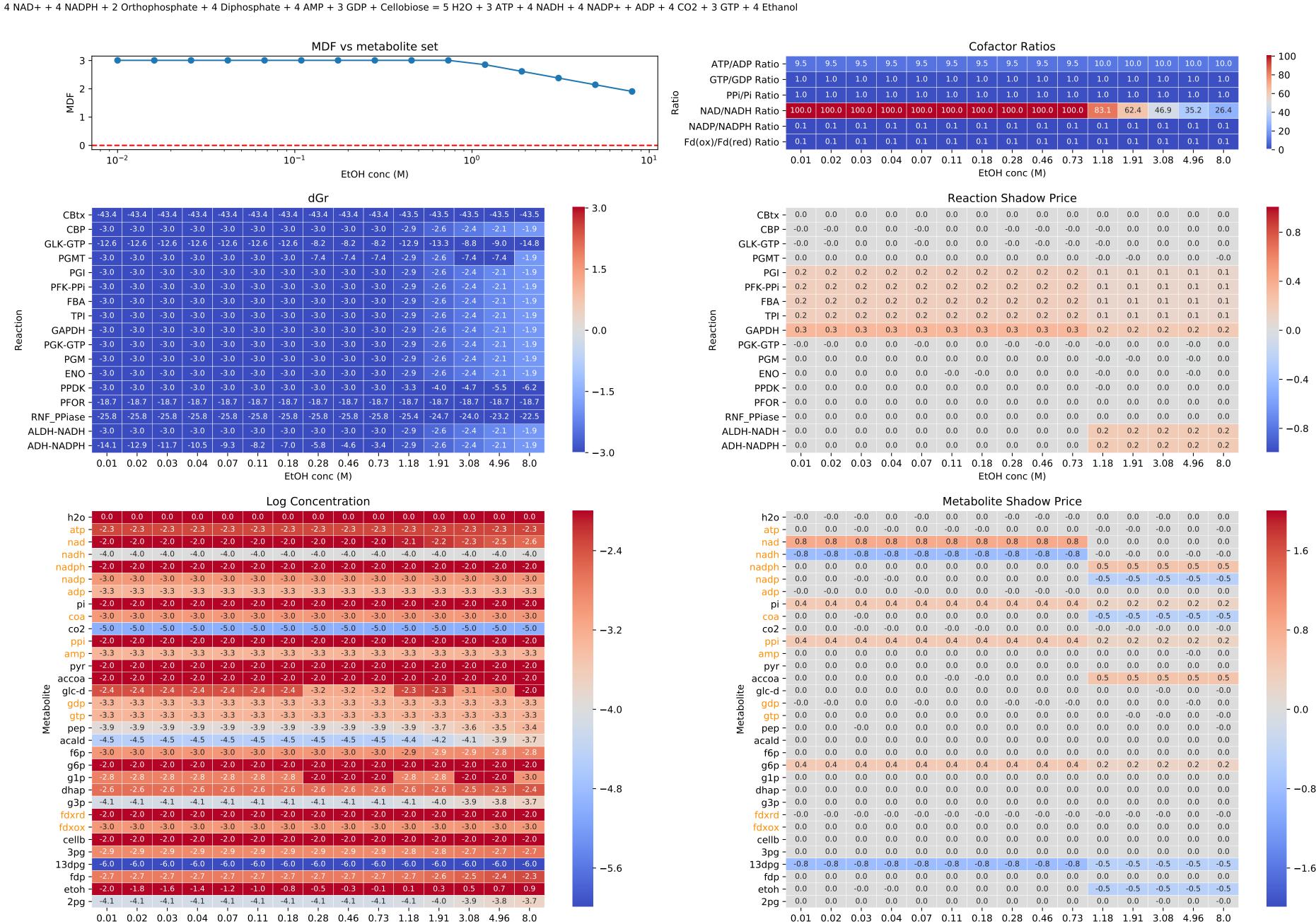
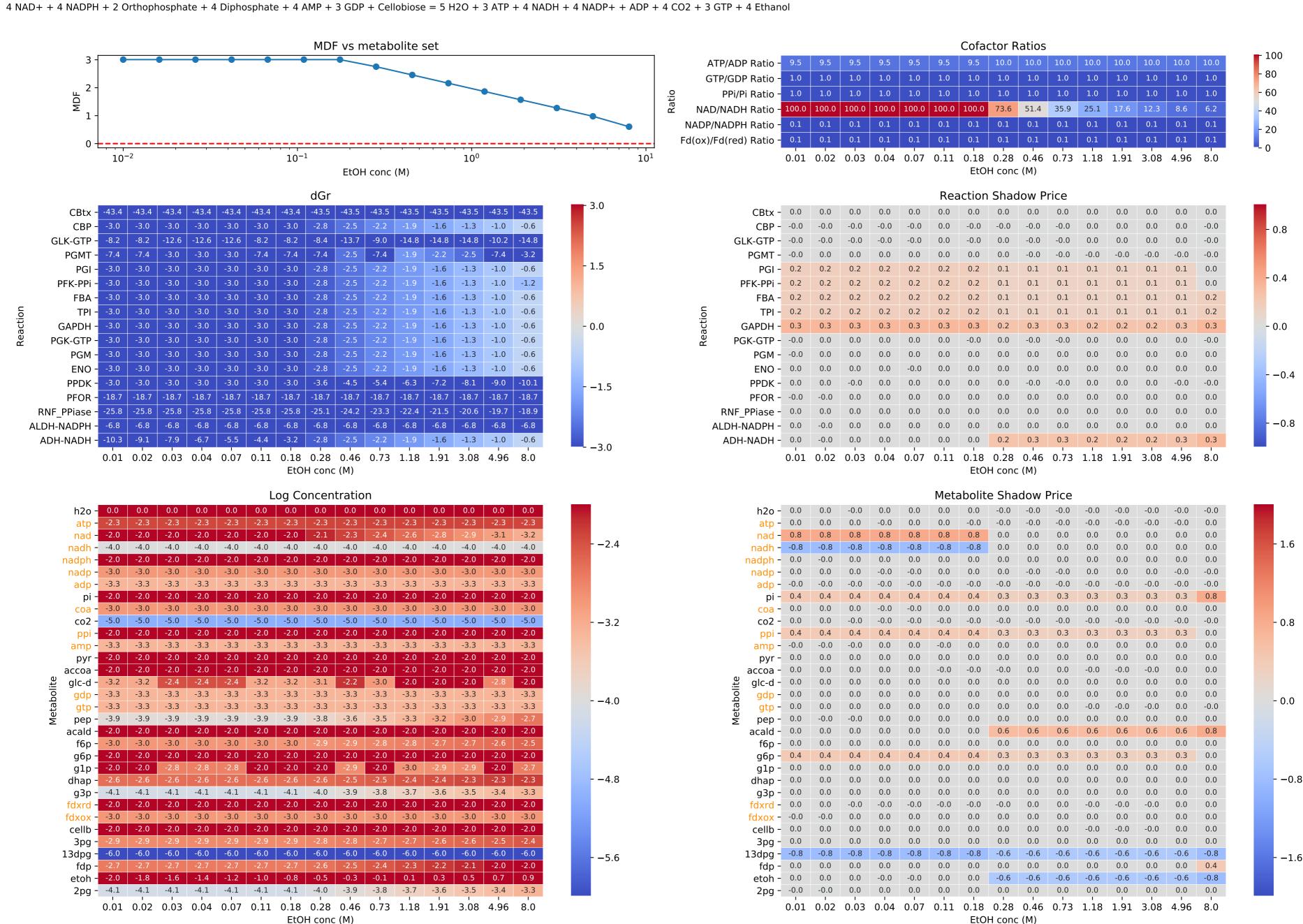
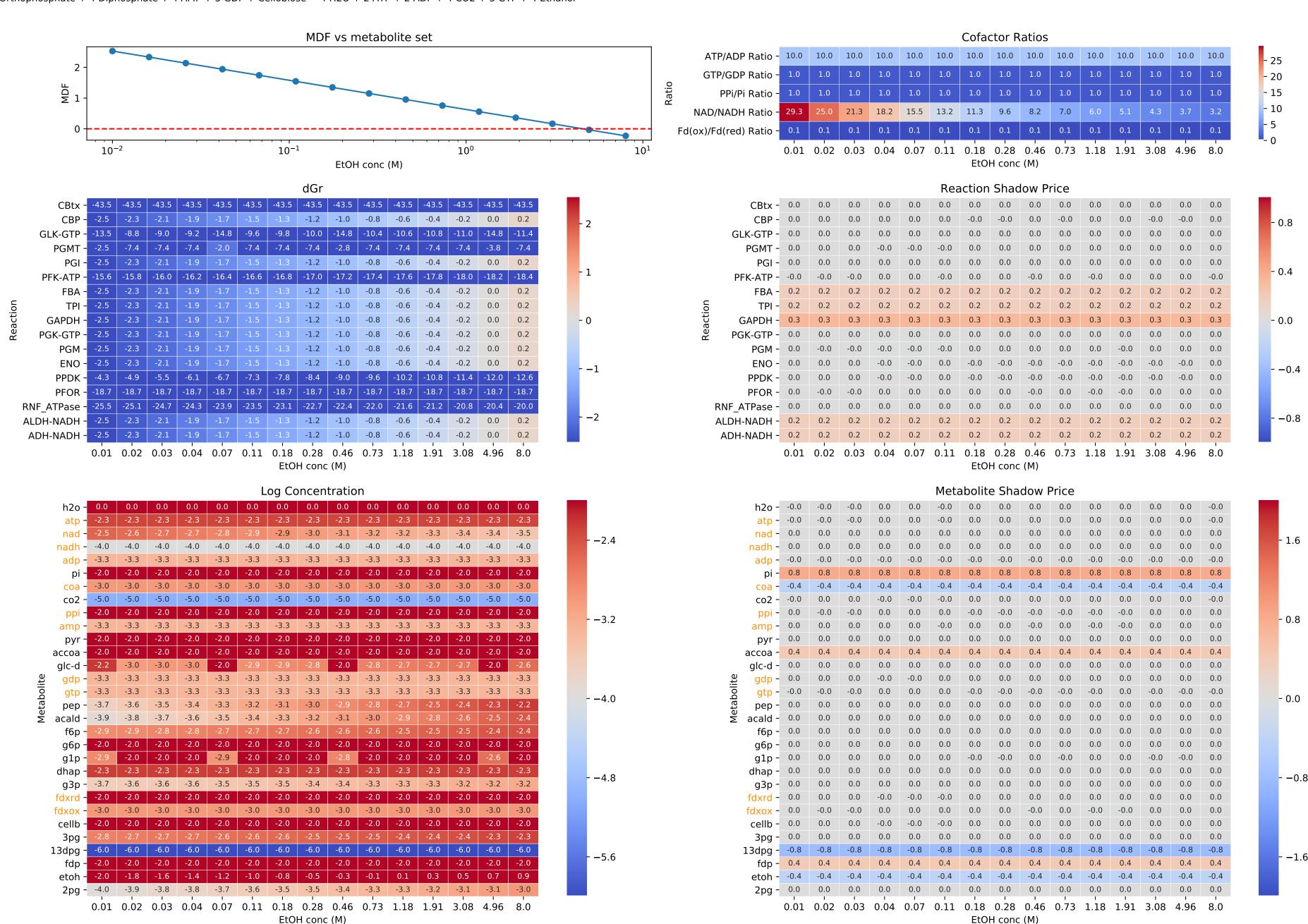
EtOH conc (M)



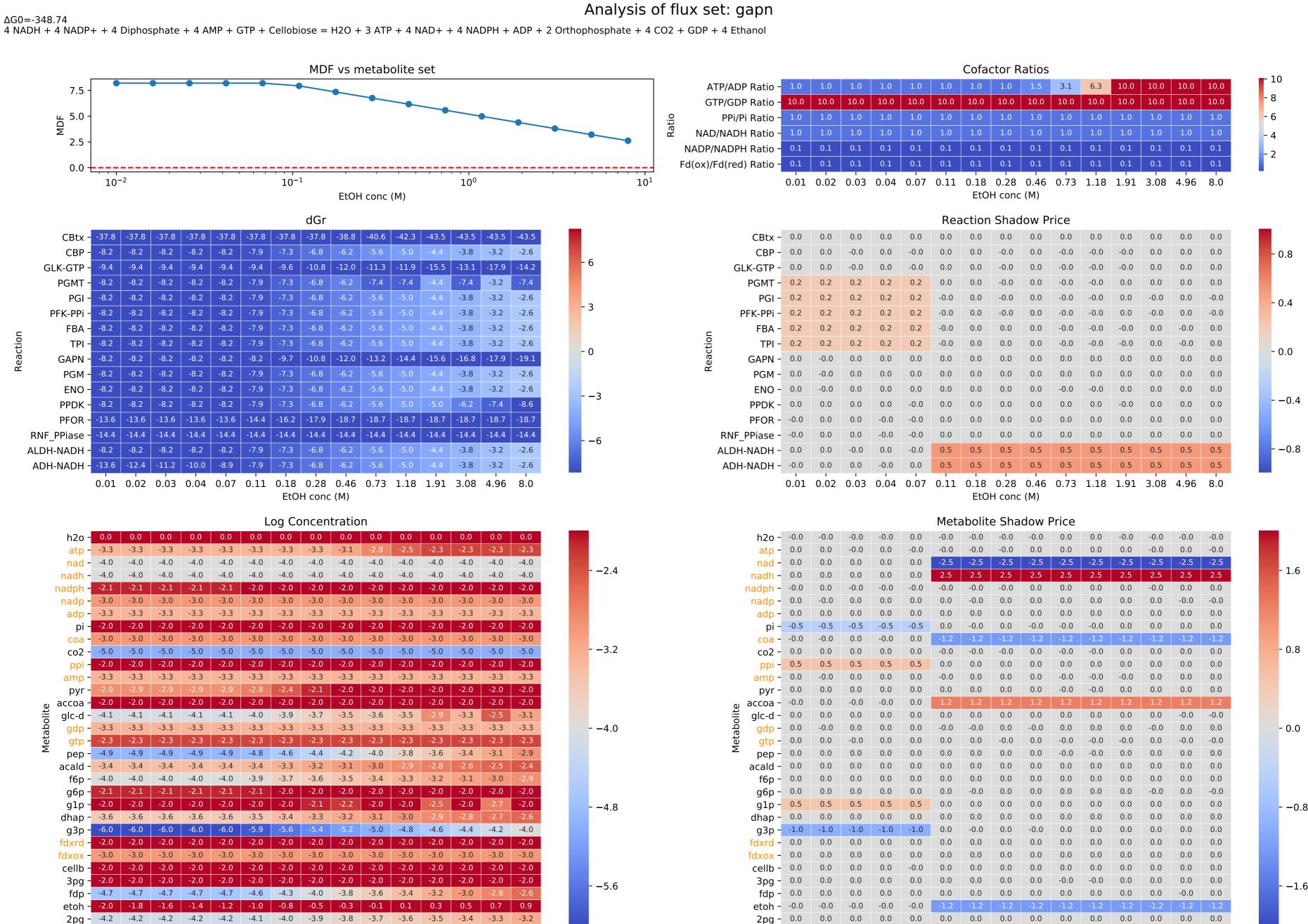
EtOH conc (M)





0.01 0.02 0.03 0.04 0.07 0.11 0.18 0.28 0.46 0.73 1.18 1.91 3.08 4.96 8.0

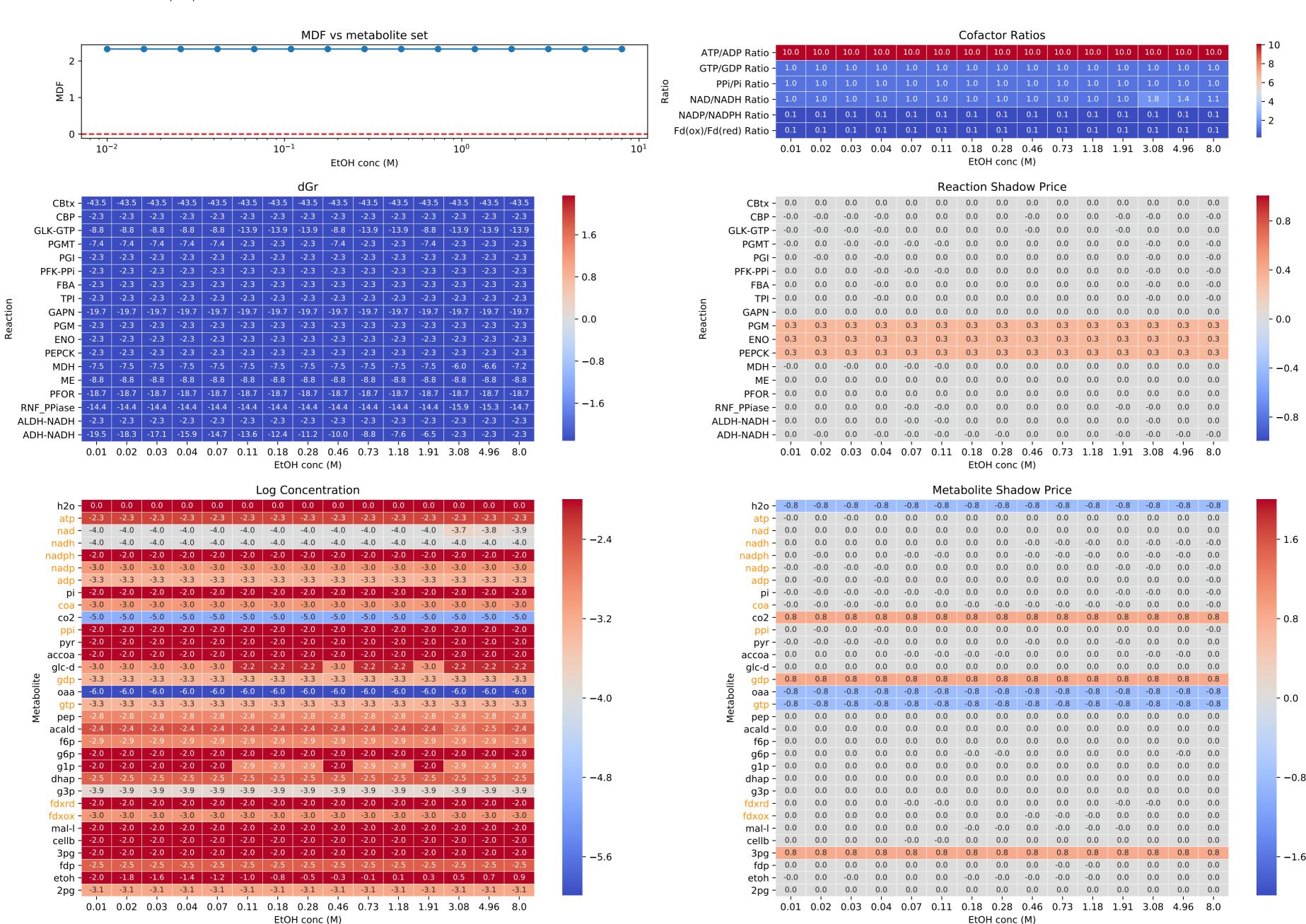
EtOH conc (M)



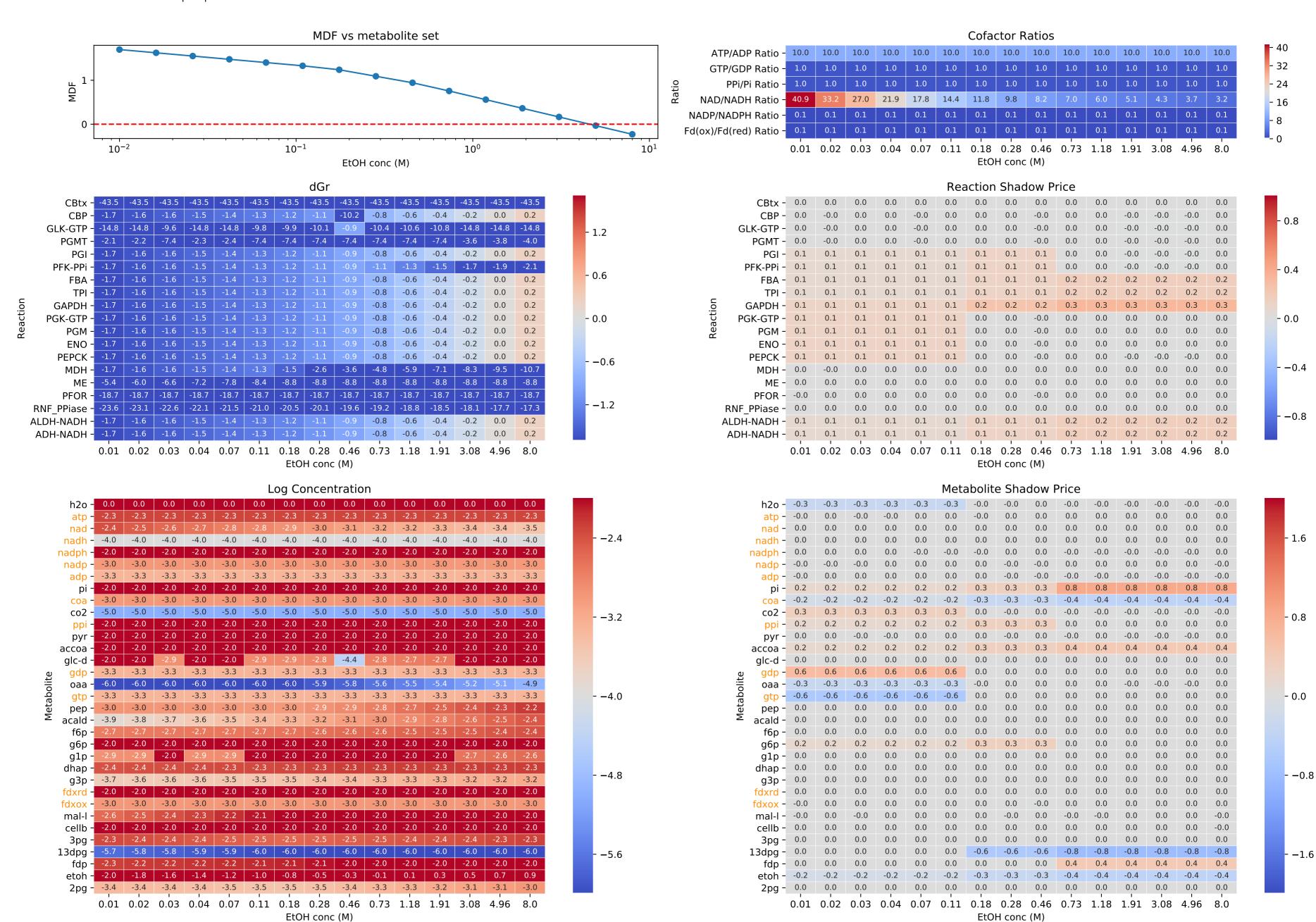
 $0.01 \ \ 0.02 \ \ 0.03 \ \ 0.04 \ \ 0.07 \ \ \ 0.11 \ \ \ 0.18 \ \ \ 0.28 \ \ \ 0.46 \ \ \ \ 0.73 \ \ \ 1.18 \ \ 1.91 \ \ \ 3.08 \ \ 4.96 \ \ \ 8.0$

EtOH conc (M)

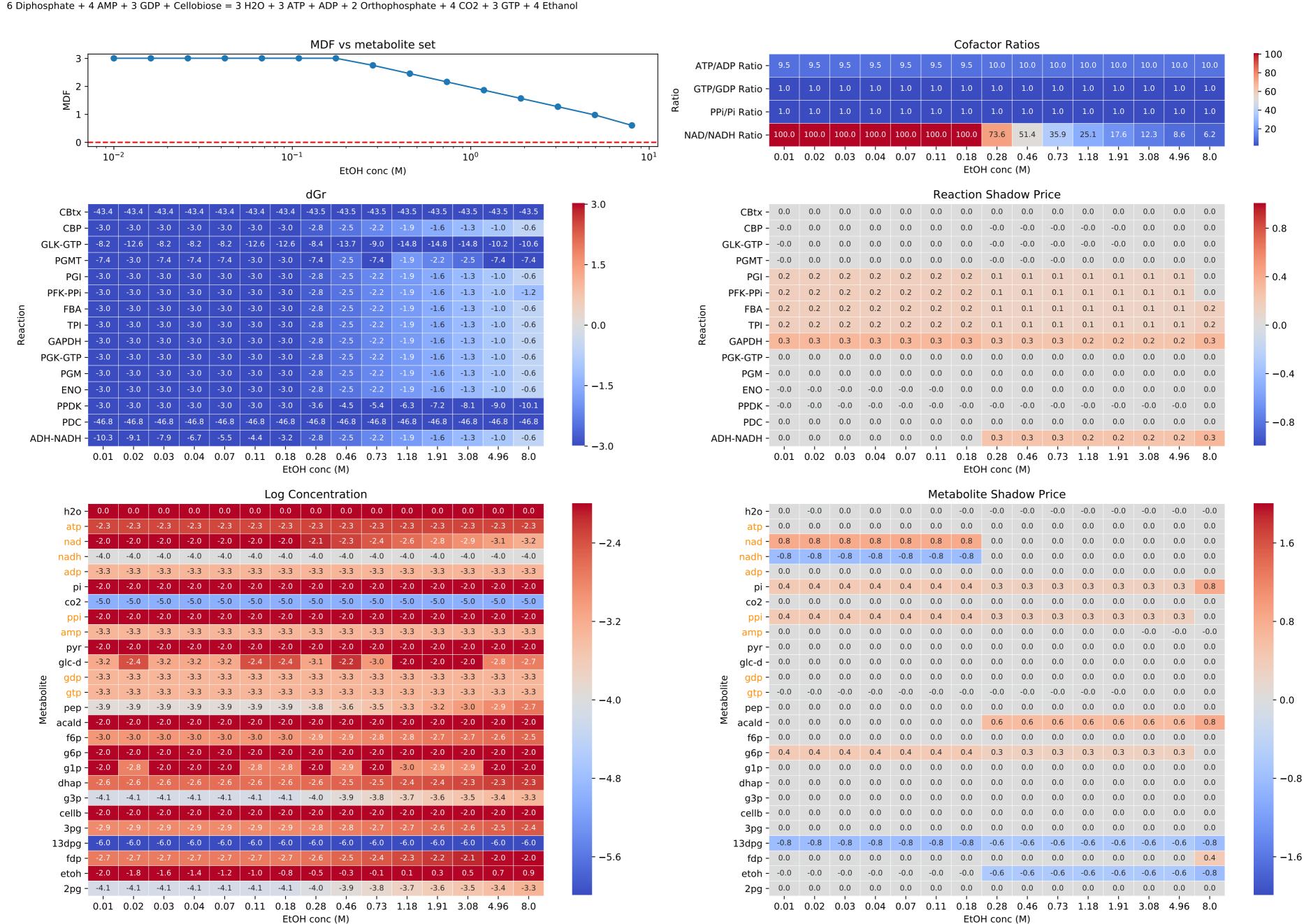
 Δ G0=-386.89 ATP + 8 NADH + 8 NADP+ + 2 Orthophosphate + 3 GDP + Cellobiose = H2O + 8 NAD+ + 8 NADPH + ADP + 4 CO2 + 3 GTP + 4 Ethanol

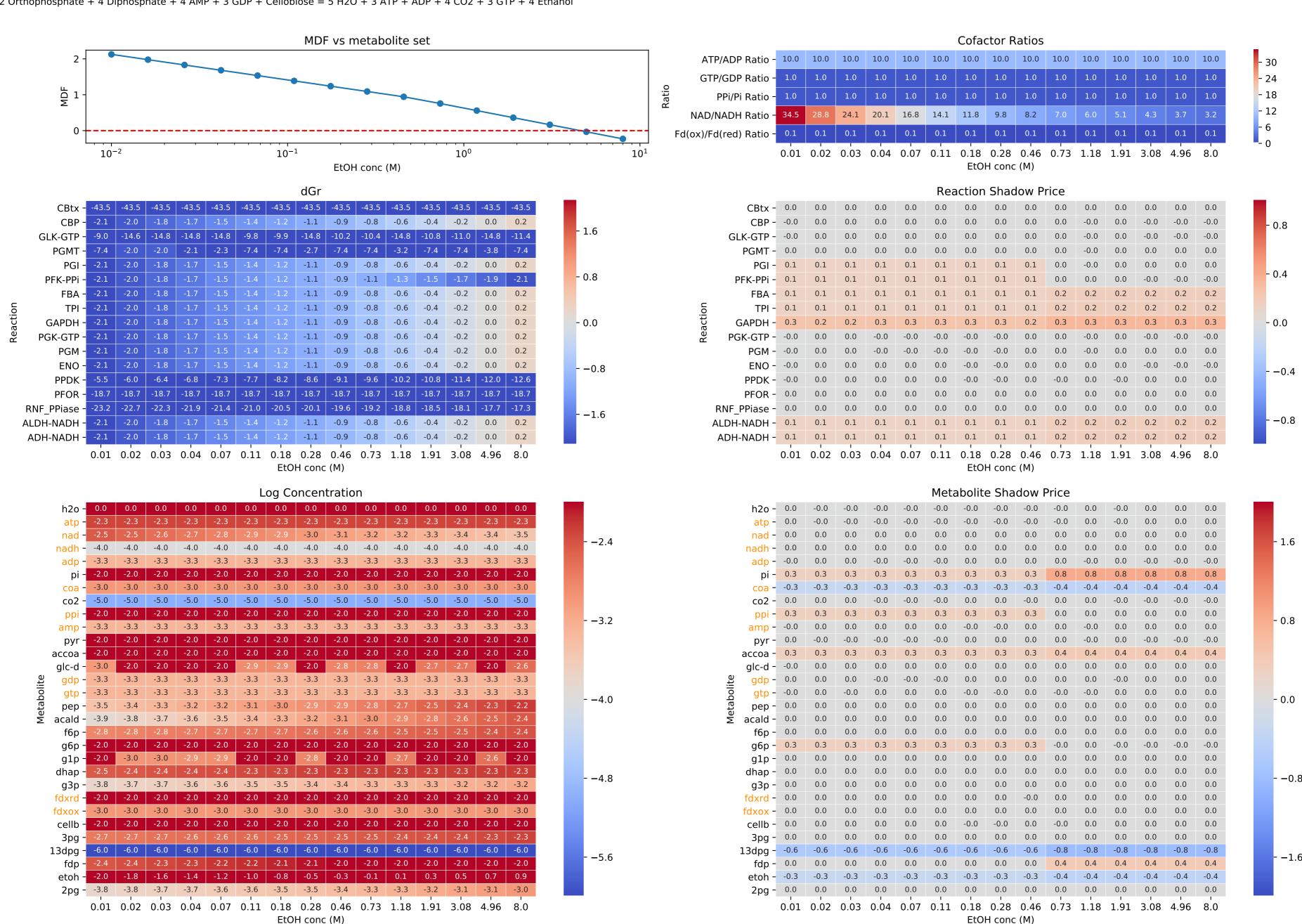


ATP + 4 NADH + 4 NADP+ + 6 Orthophosphate + 7 GDP + Cellobiose = 5 H2O + 4 NAD+ + 4 NADPH + ADP + 4 CO2 + 7 GTP + 4 Ethanol

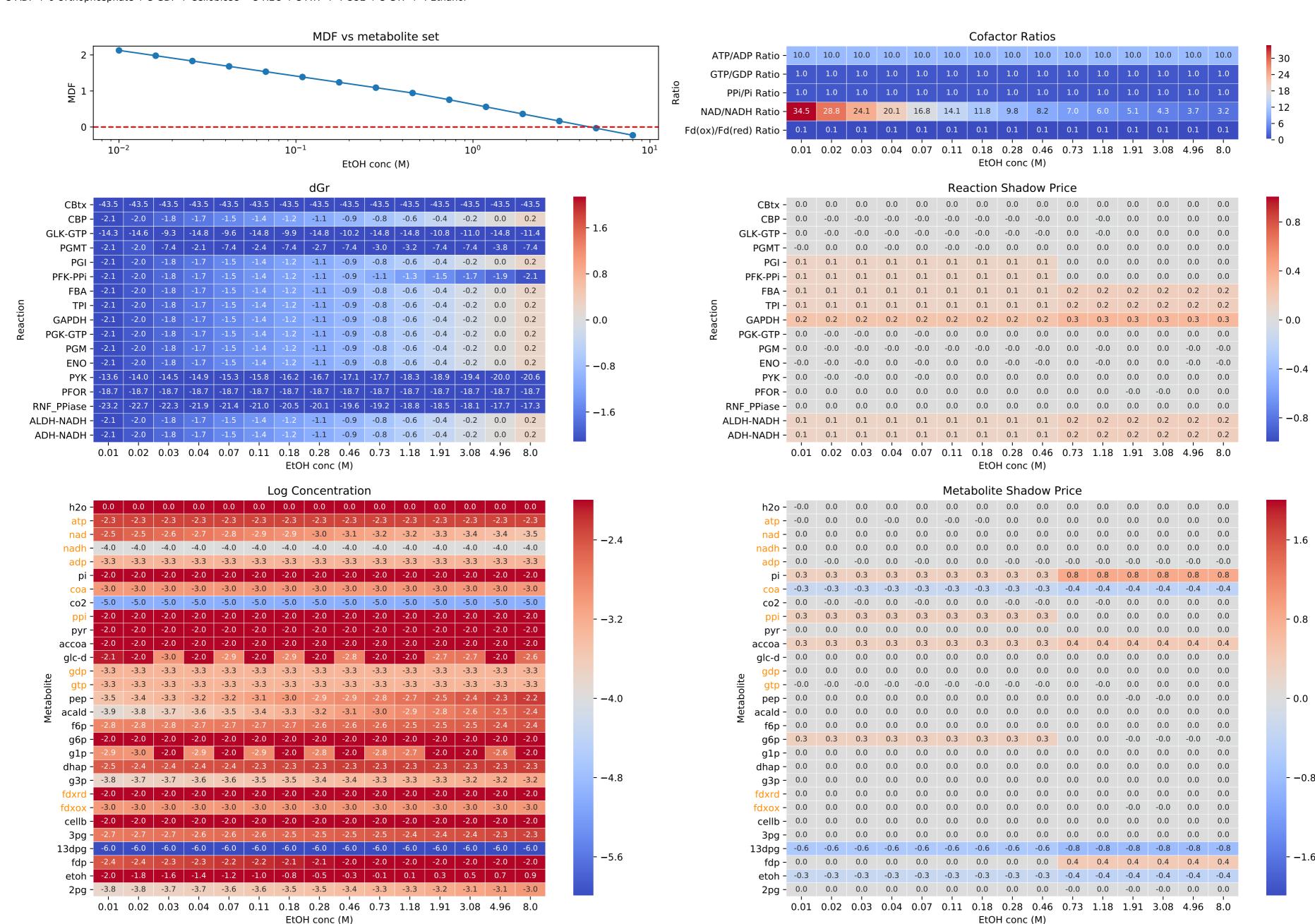


Analysis of flux set: pdc

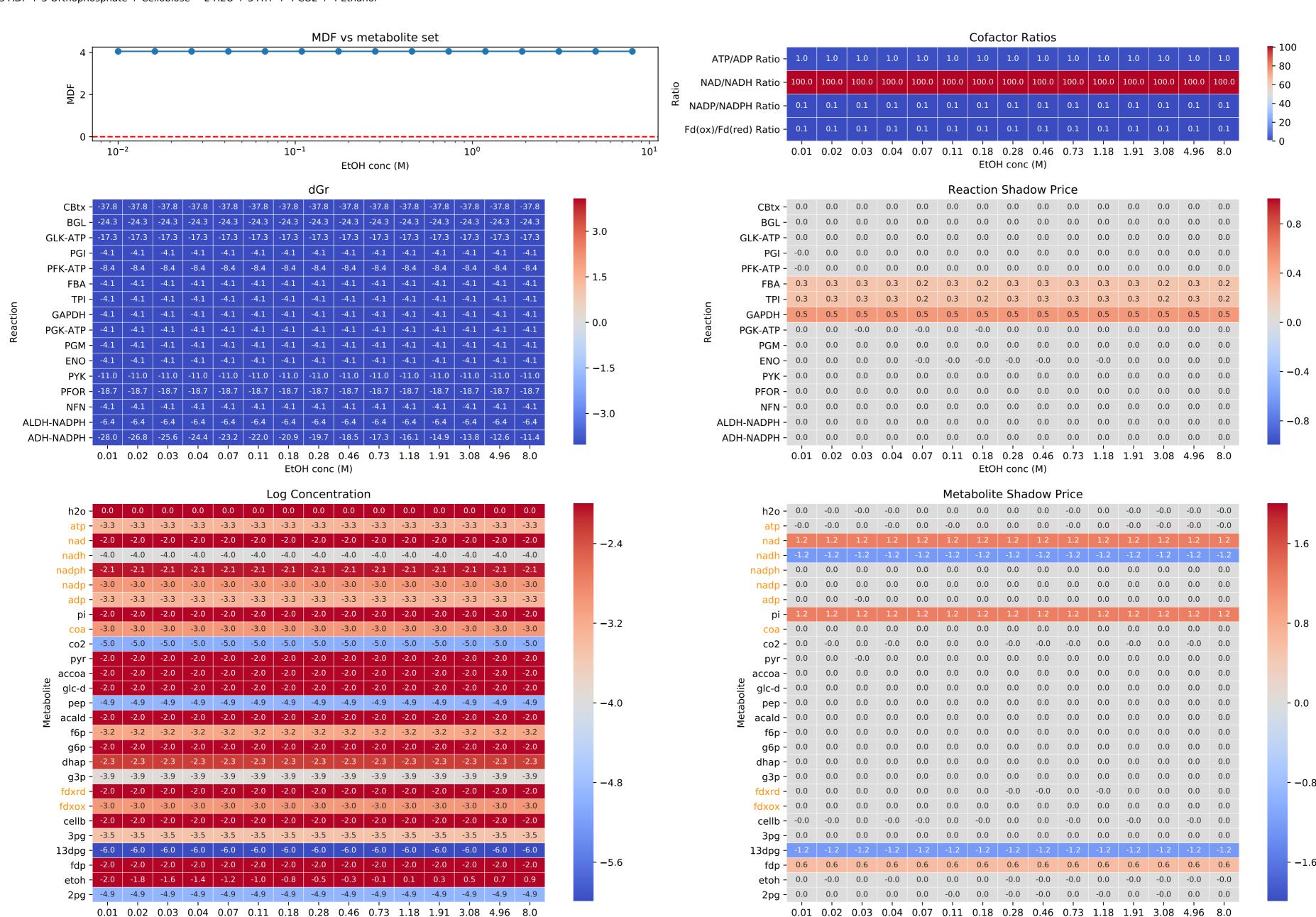




Analysis of flux set: pyk



EtOH conc (M)



EtOH conc (M)