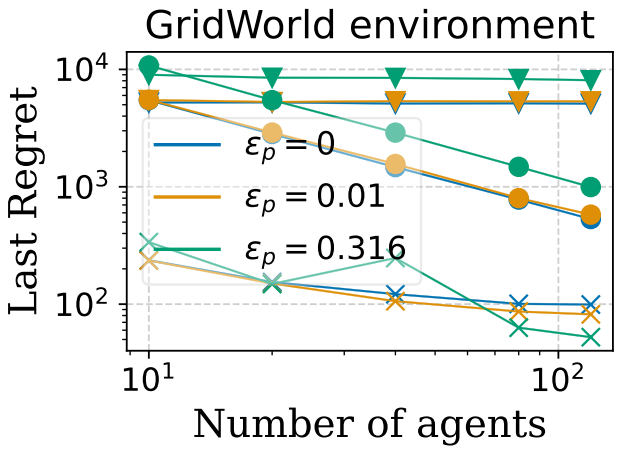
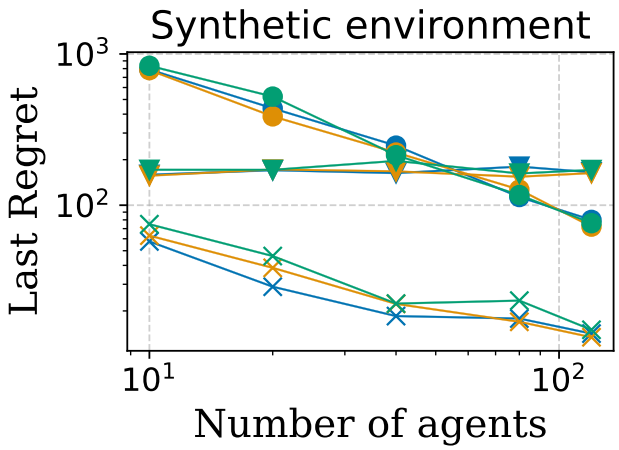
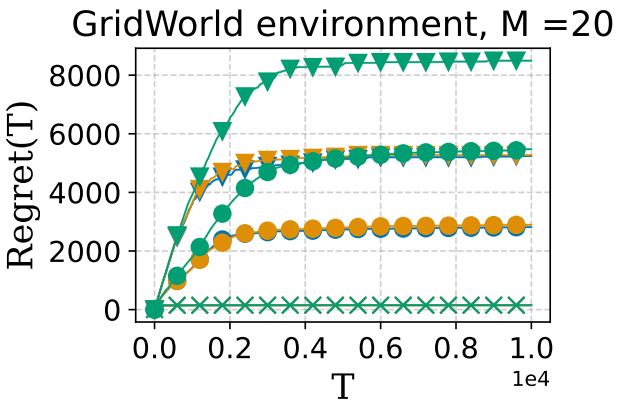


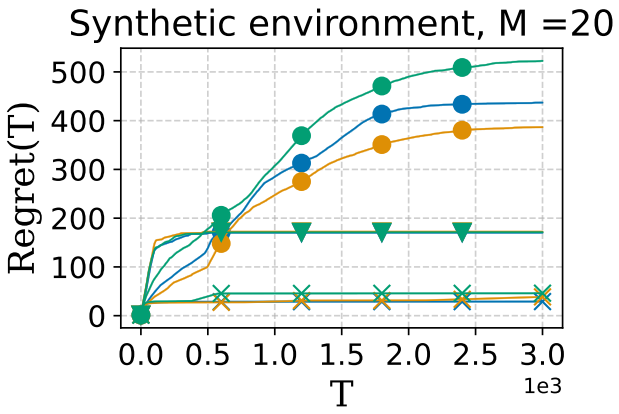

(a) Common regret *(lower is better)*, at $T = 1 \cdot 10^4$ as a function of $M$ for different $\varepsilon_p$ in a log-log scale: crosses represent `Fed-UCBVI`, circles represent `FedQ-Bernstein`, and triangles represent `FedQ-Advantage`.



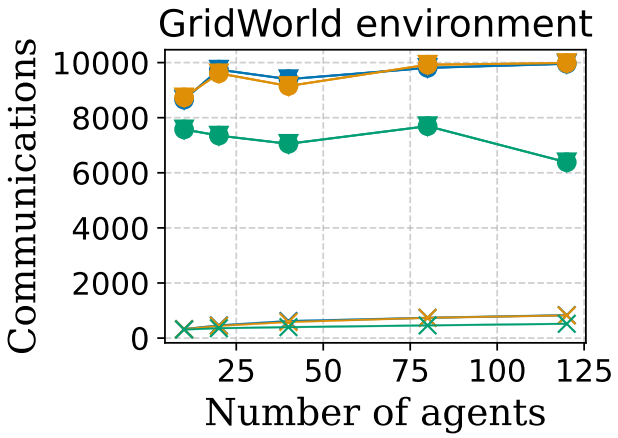

(b) Common regret *(lower is better)*, at $T = 3 \cdot 10^3$ as a function of $M$ for different $\varepsilon_p$ in a log-log scale: crosses represent `Fed-UCBVI`, circles represent `FedQ-Bernstein`, and triangles represent `FedQ-Advantage`.



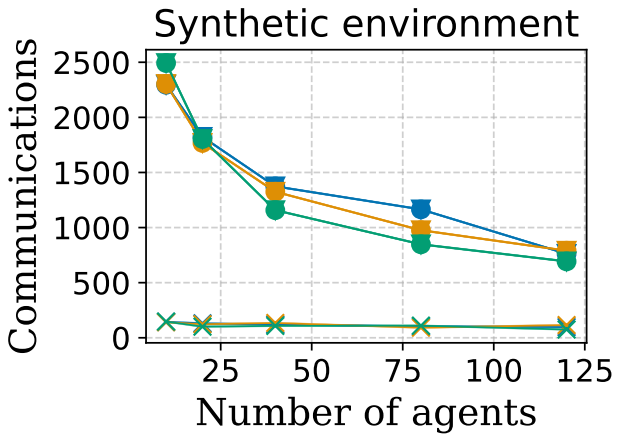

(c) Common regret *(lower is better)* for $M = 20$ agents as a function of $T$ for different $\varepsilon_p$: crosses represent `Fed-UCBVI`, circles represent `FedQ-Bernstein` and triangles represent `FedQ-Advantage`.




(d) Common regret *(lower is better)* for $M = 20$ agents as a function of $T$ for different $\varepsilon_p$: crosses represent `Fed-UCBVI`, circles represent `FedQ-Bernstein` and triangles represent `FedQ-Advantage`.




(e) Number of communication *(lower is better)* as a function of $M$ for different $\varepsilon_p$ at $T = 1 \cdot 10^4$: crosses represent `Fed-UCBVI`, circles represent `FedQ-Bernstein`, and triangles represent `FedQ-Advantage`.




(f) Number of communication *(lower is better)* as a function of $M$ for different $\varepsilon_p$ at $T = 3 \cdot 10^3$ : crosses represent `Fed-UCBVI`, and circles represent `FedQ-Bernstein`, and triangles represent `FedQ-Advantage`.