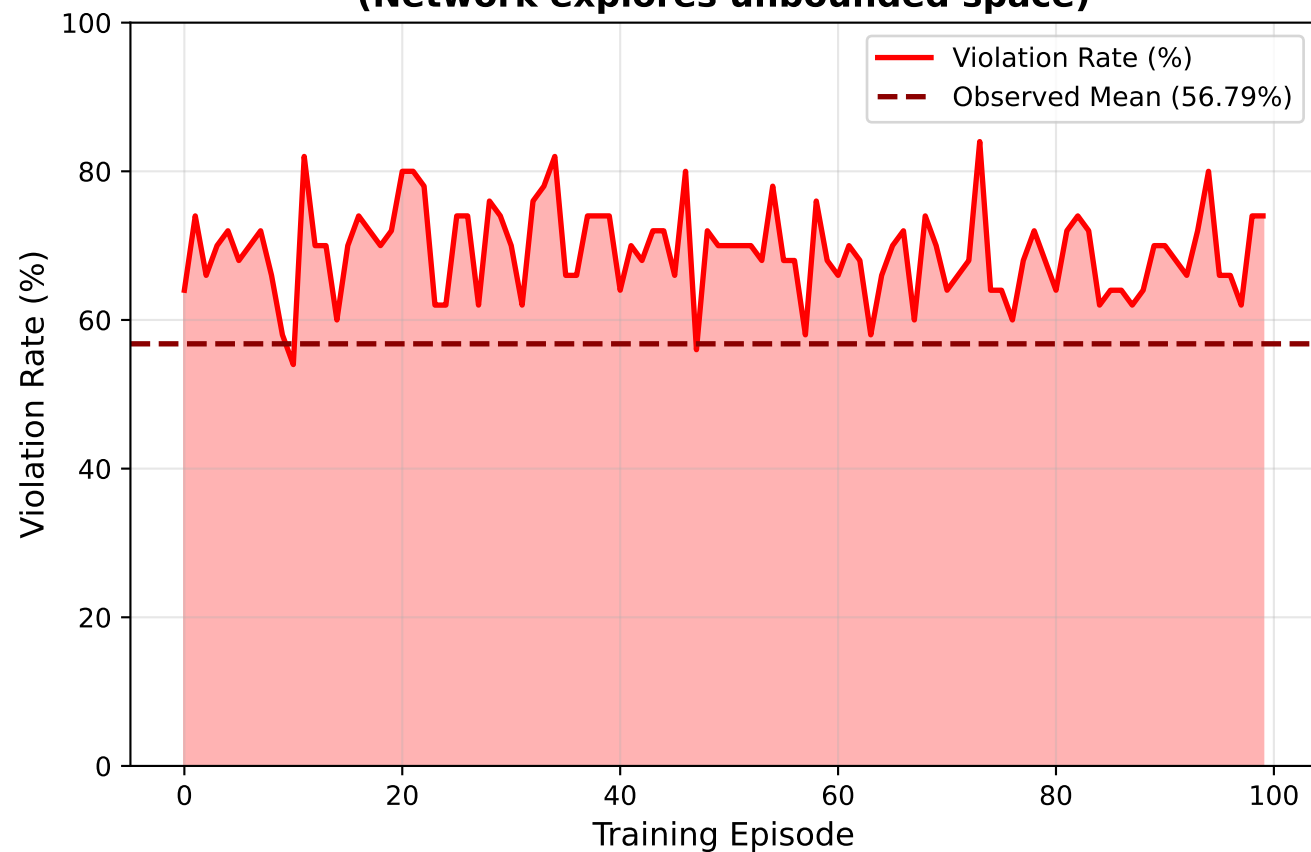
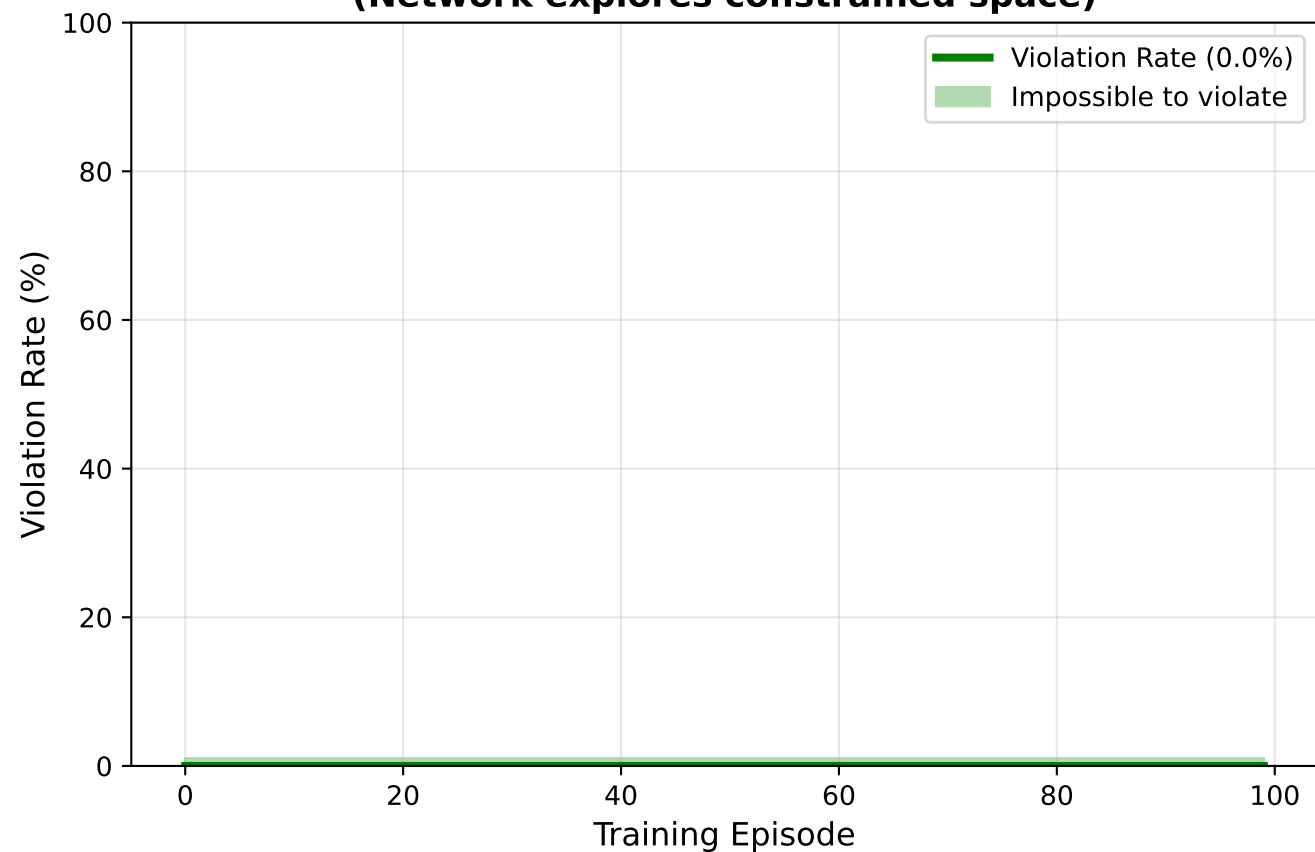


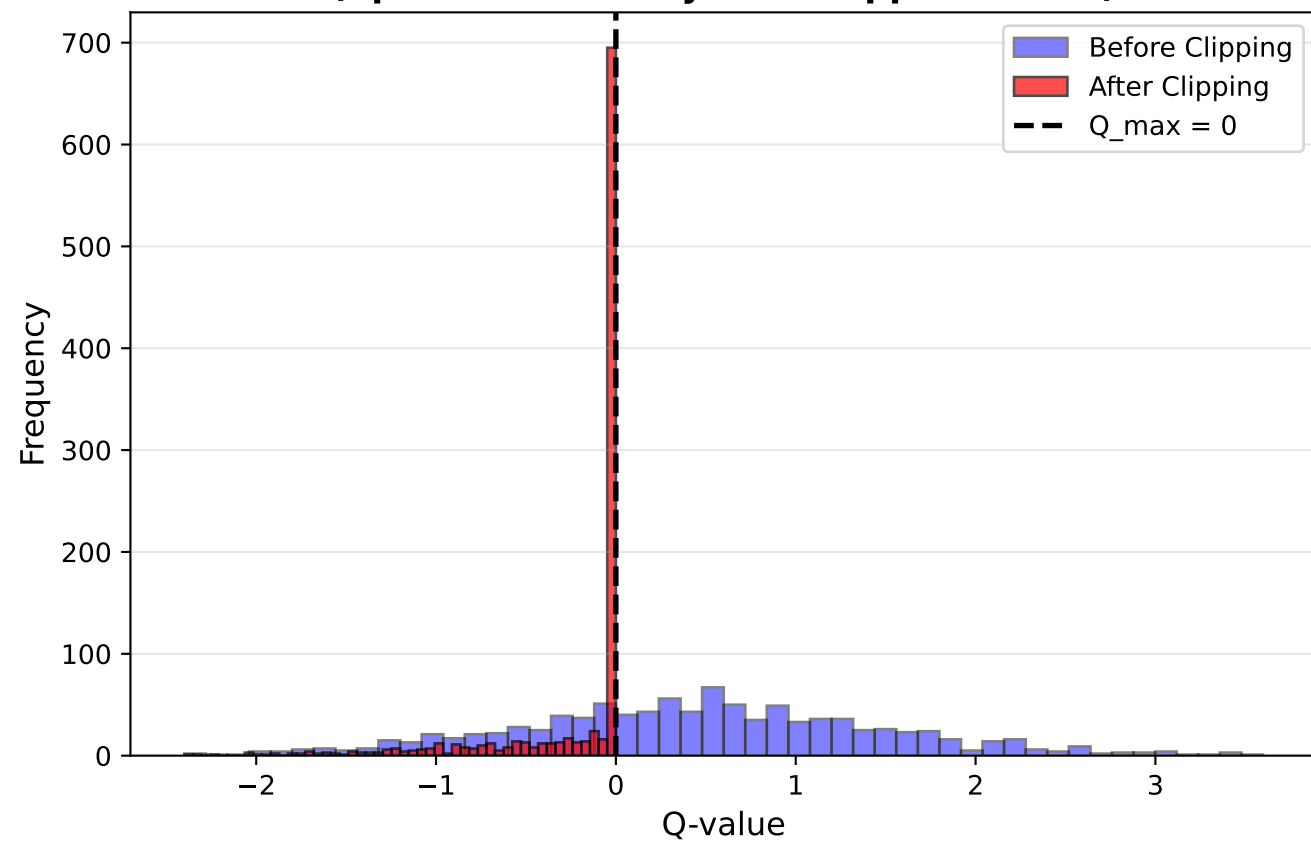
**Hard Clipping: Persistent Violations**  
(Network explores unbounded space)



**Architectural QBound: Zero Violations**  
(Network explores constrained space)



**Hard Clipping: Post-Hoc Correction**  
(Spike at boundary from clipped values)



**Architectural QBound: Natural Constraint**  
(All Q-values  $\leq 0$  by construction)

