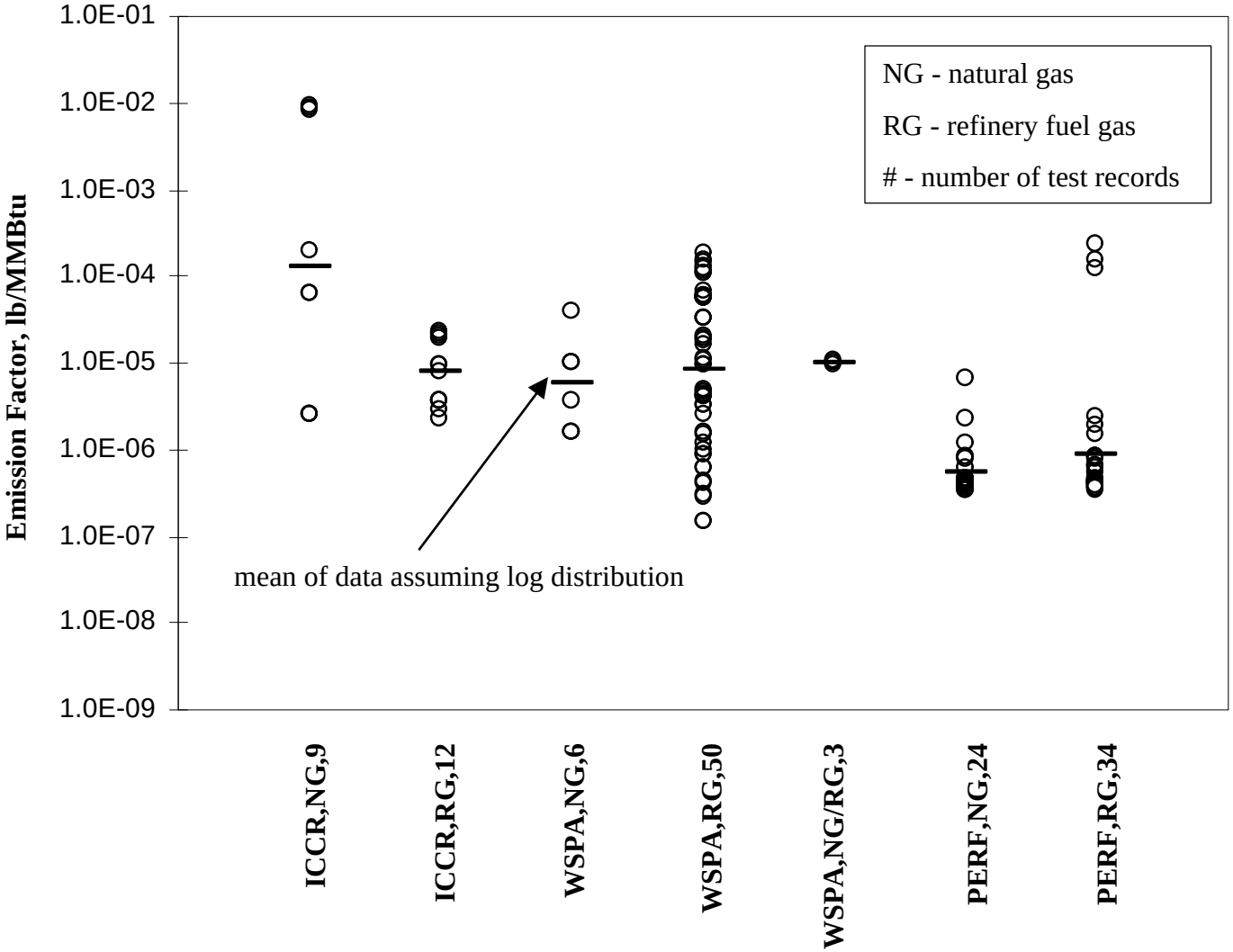


Figure 1. Benzene emissions as a function of fuel type for gas fuel fired process heaters (ICCR, WSPA, and PERF data).

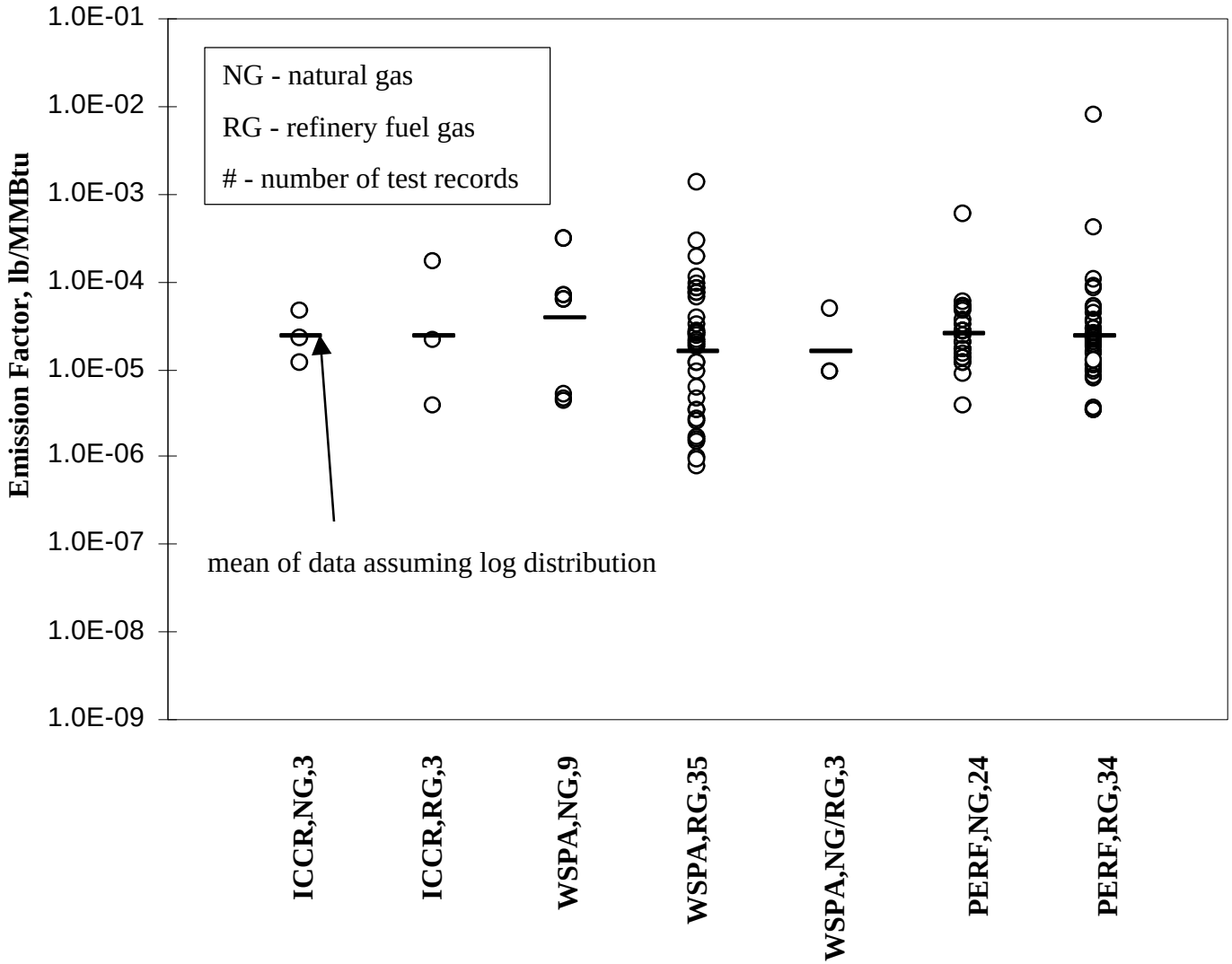


Figure 2. Formaldehyde emissions as a function of fuel type for gas fuel fired process heaters (ICCR, WSPA, and PERF data).

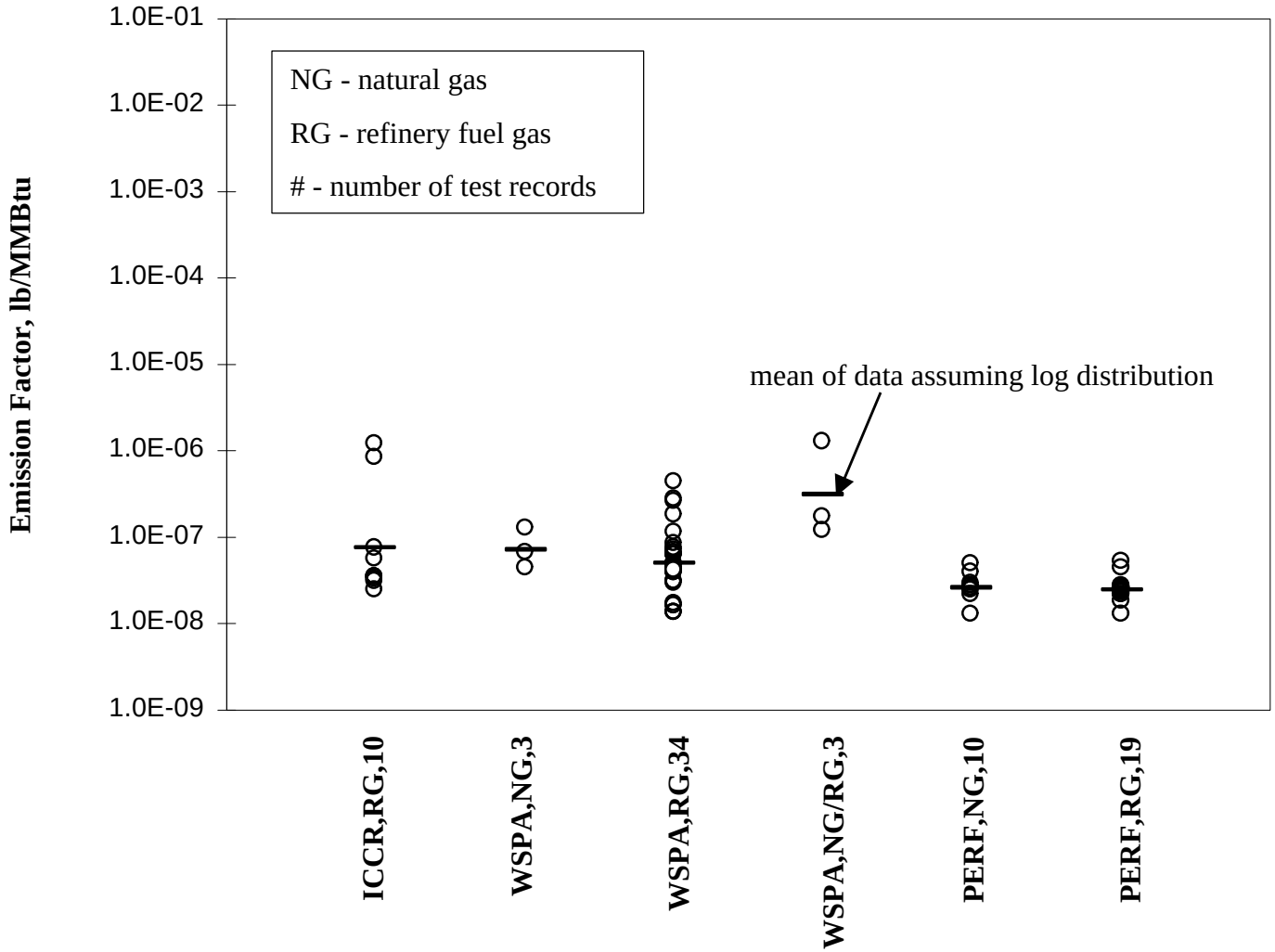


Figure 3. Total PAH emissions as a function of fuel type for gas fuel fired process heaters (ICCR, WSPA, and PERF data).

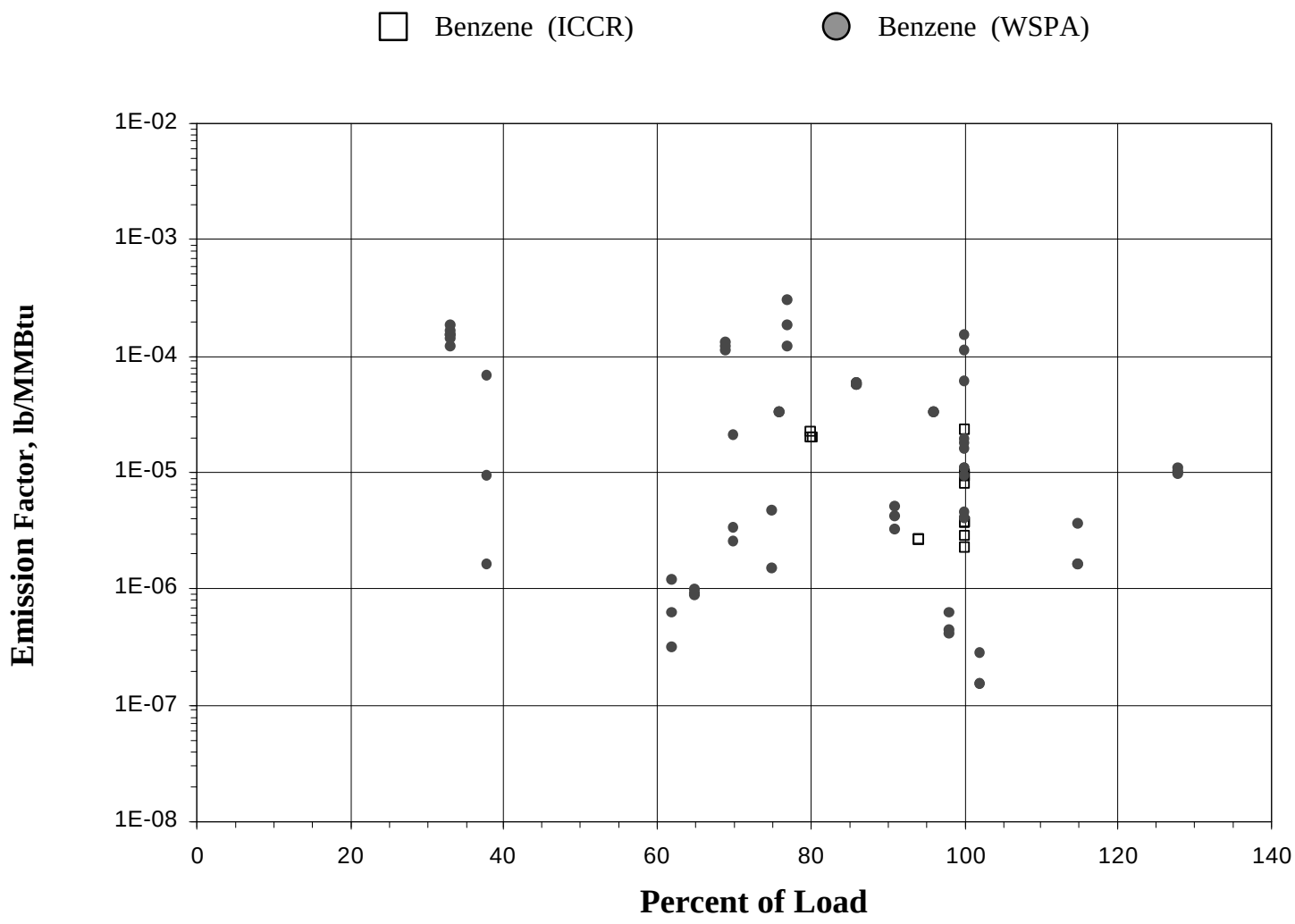


Figure 4. Benzene emissions as a function of load for gas fuel fired process heaters (ICCR and WSPA data).

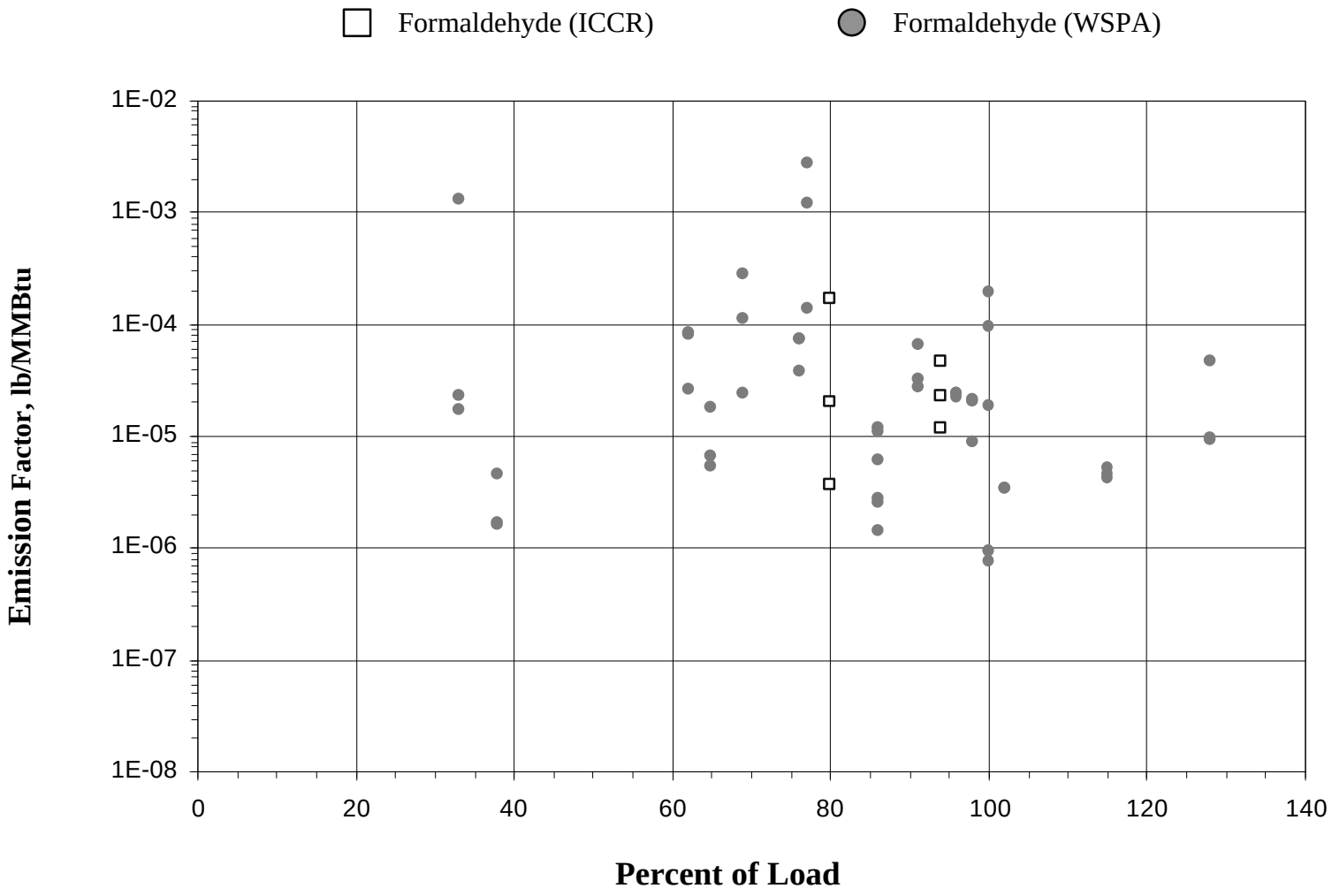


Figure 5. Formaldehyde emissions as a function of load for gas fuel fired process heaters (ICCR and WSPA data).

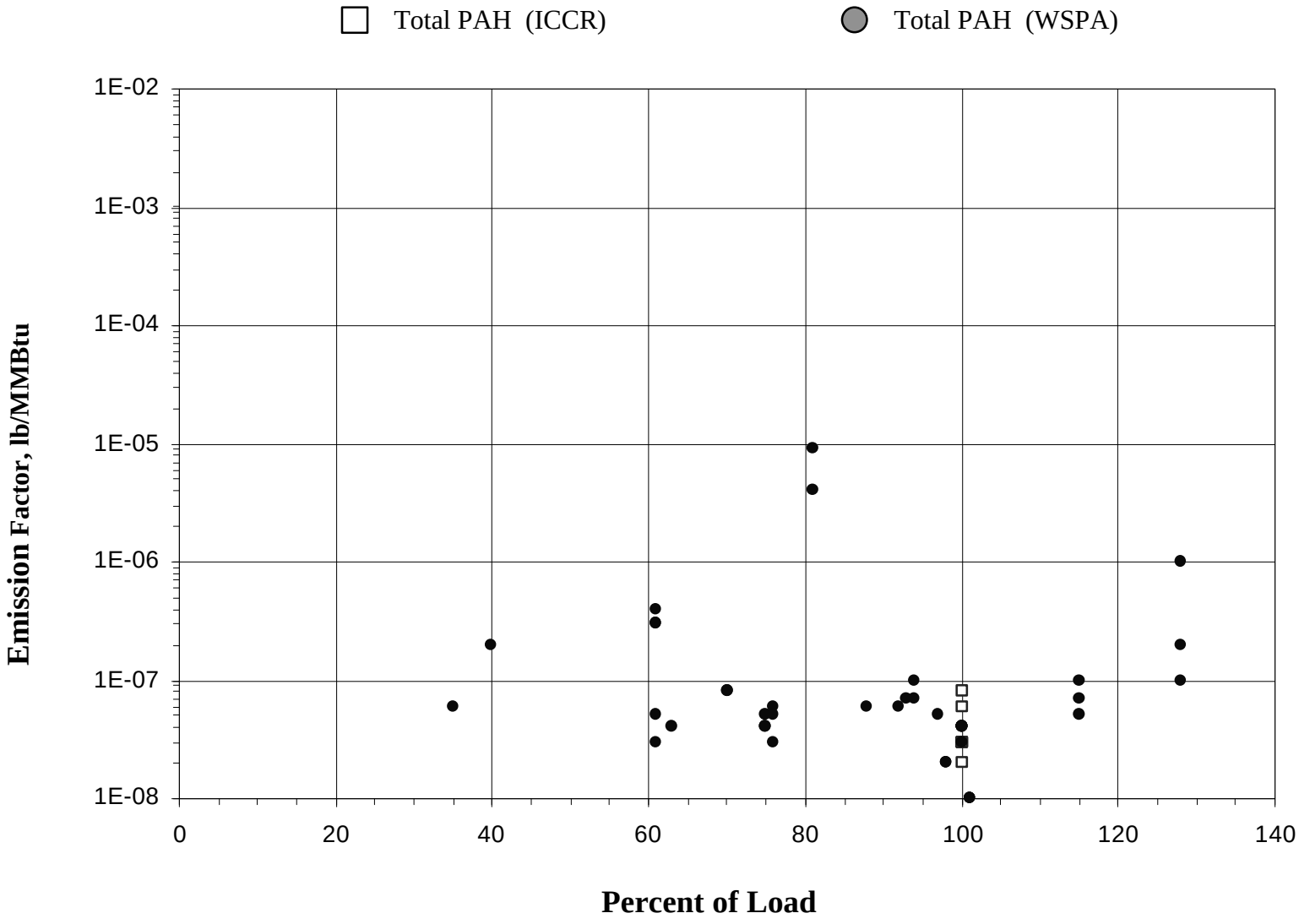


Figure 6. Total PAH emissions as a function of load for gas fuel fired process heaters (ICCR and WSPA data).

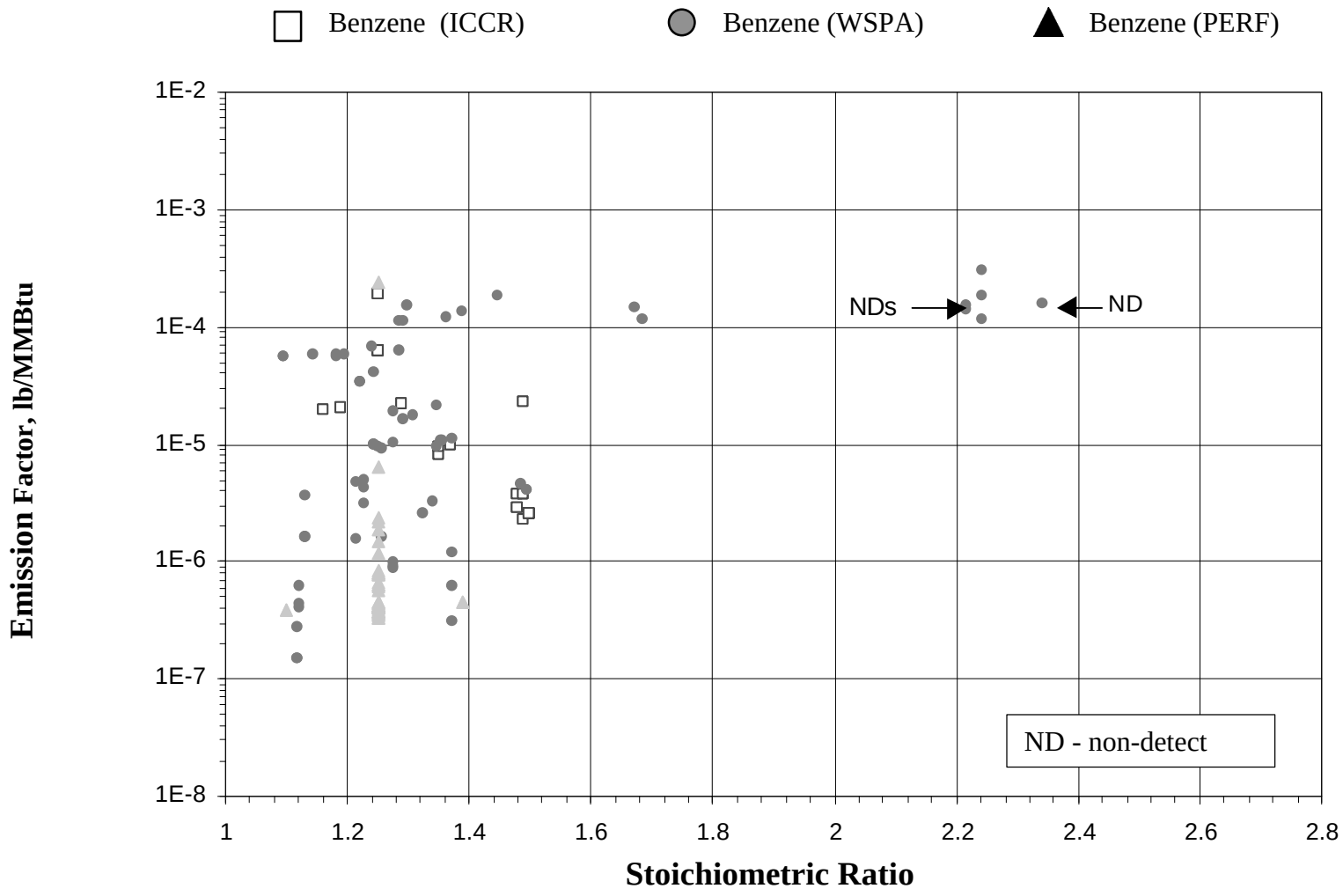


Figure 7. Benzene emissions as a function of stoichiometric ratio for gas fuel fired process heaters (ICCR, WSPA and PERF data).

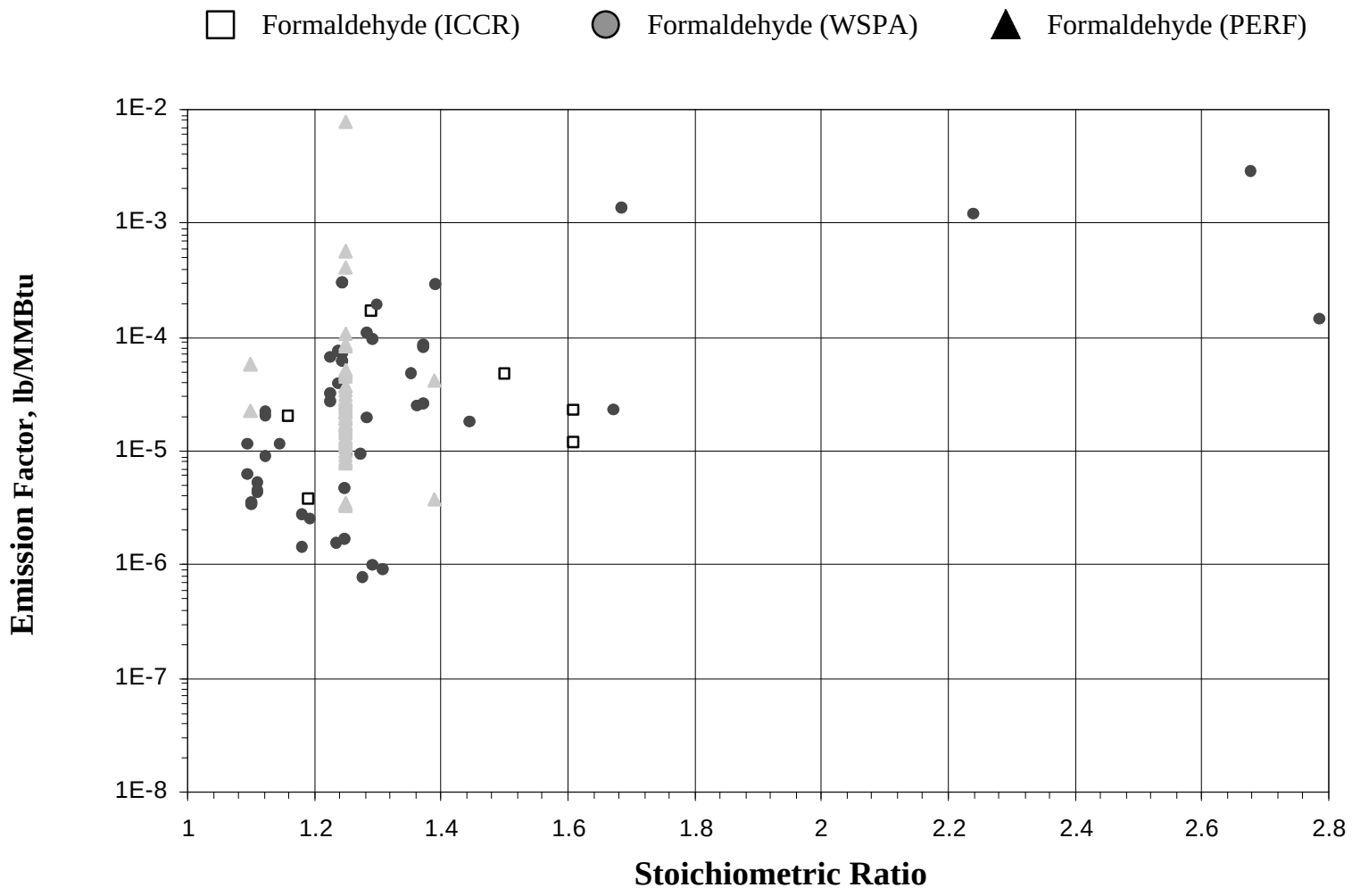


Figure 8. Formaldehyde emissions as a function of stoichiometric ratio for gas fuel fired process heaters (ICCR, WSPA and PERF data).

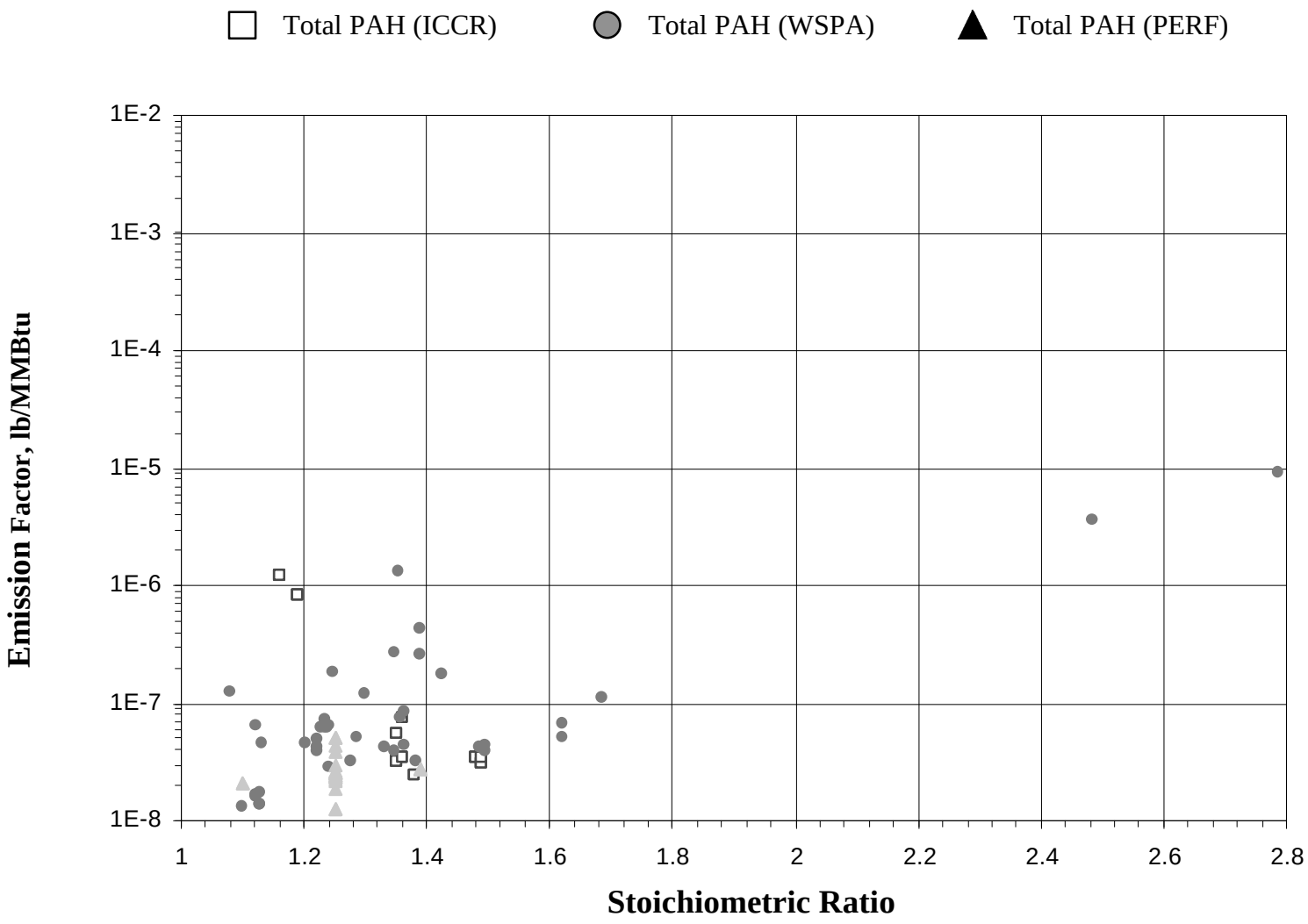


Figure 9. Total PAH emissions as a function of stoichiometric ratio for gas fuel fired process heaters (ICCR, WSPA and PERF data).

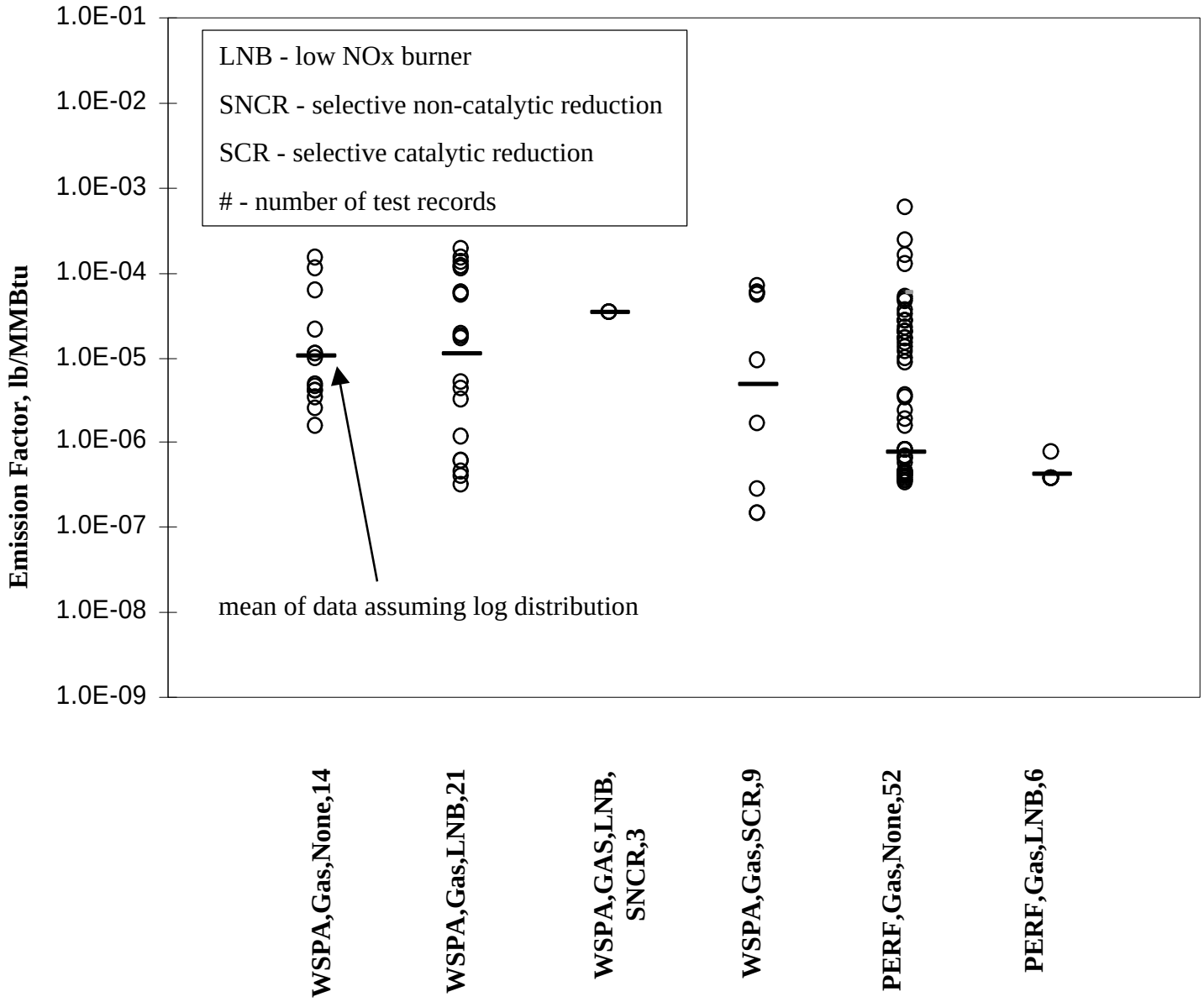
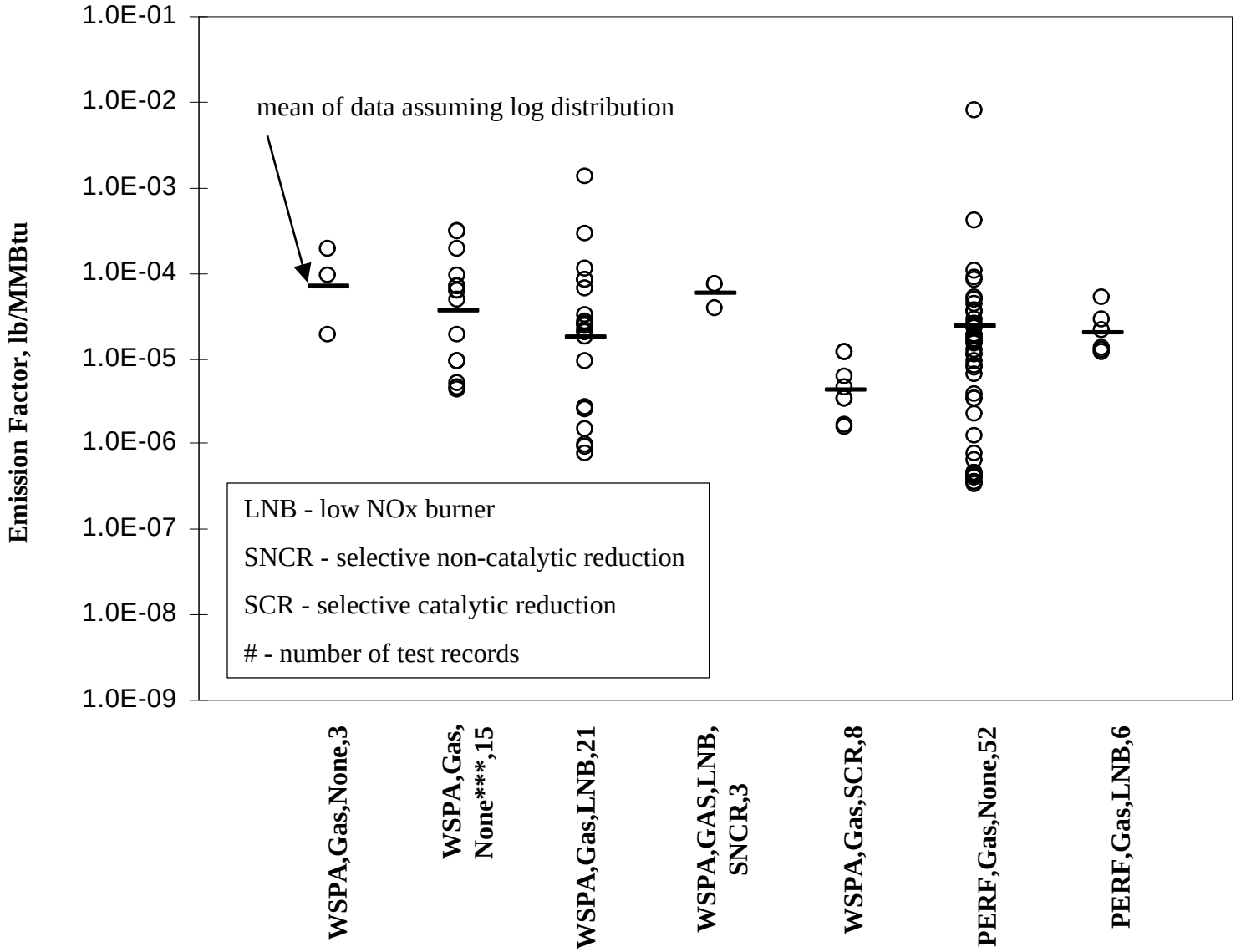


Figure 10. Benzene emissions as a function of NOx control type for gas fuel fired process heaters (WSPA and PERF data).



***assuming unspecified NOx control type is none

Figure 11. Formaldehyde emissions as a function of NOx control type for gas fuel fired process heaters (WSPA and PERF data).

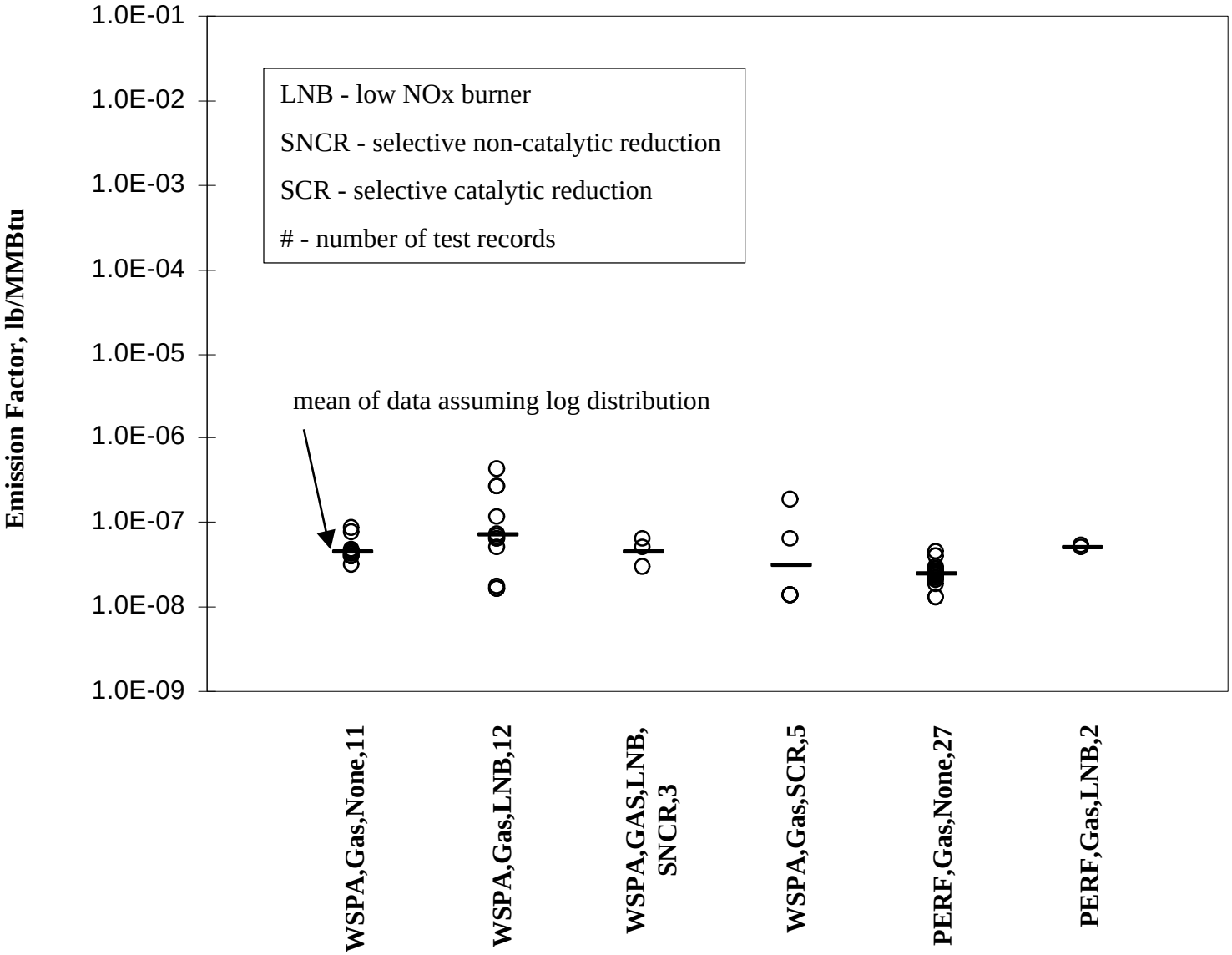


Figure 12. Total PAH emissions as a function of NOx control type for gas fuel fired process heaters (WSPA and PERF data).

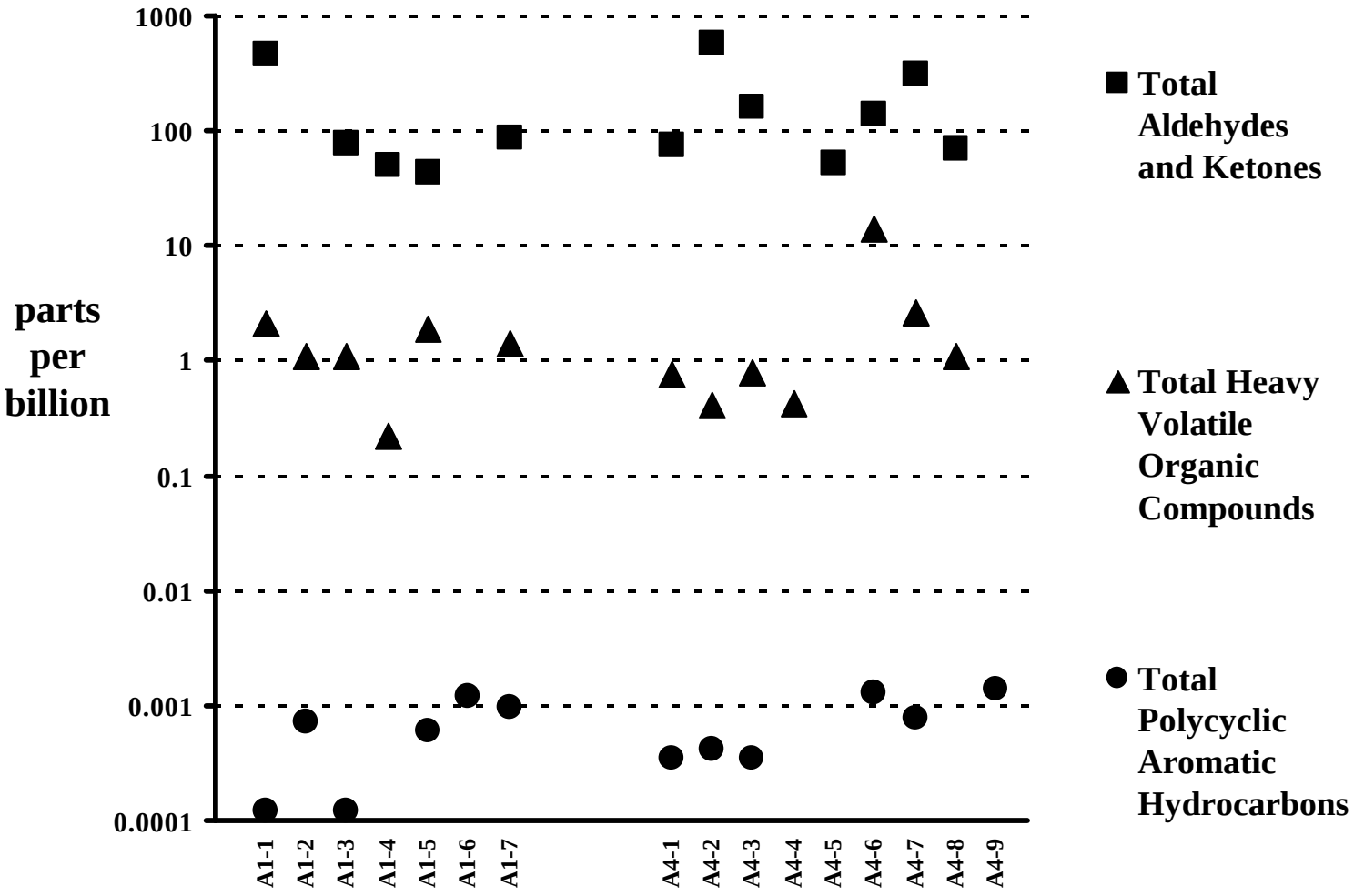


Figure 13. PERF 92-19 CRADA Regulatory Base Case Repetitions Illustrate Irreducible Minimum Variability when Searching for Trace Emissions at the Limit of Detection