

SESAM FT-IR: A Comparison of the R&D Workhorse to Standard Emission Benches

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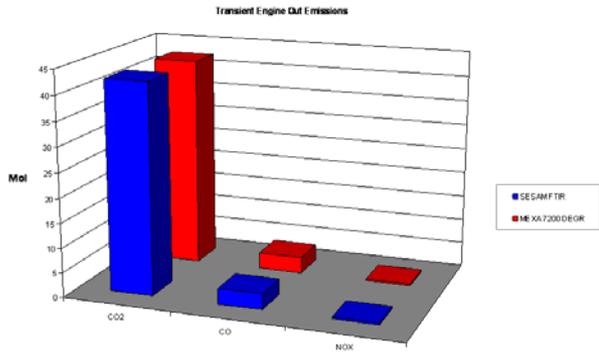
Emissions Controls Technologies Session



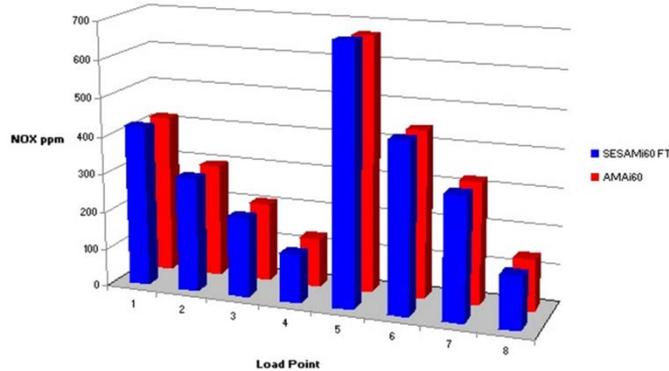
Poster Session III

Poster #07

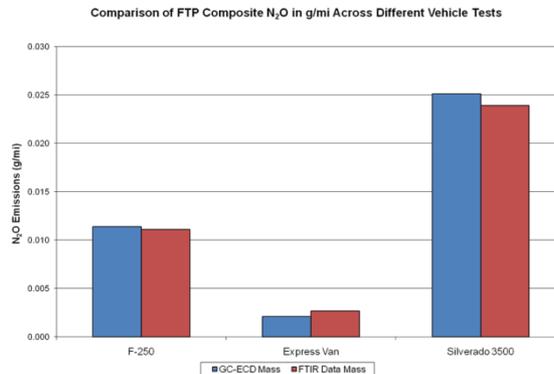
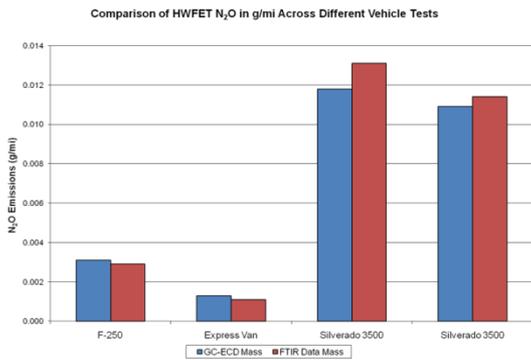
NEDC Transient: CO, CO₂ & NOX



8 Mode Steady State NOX

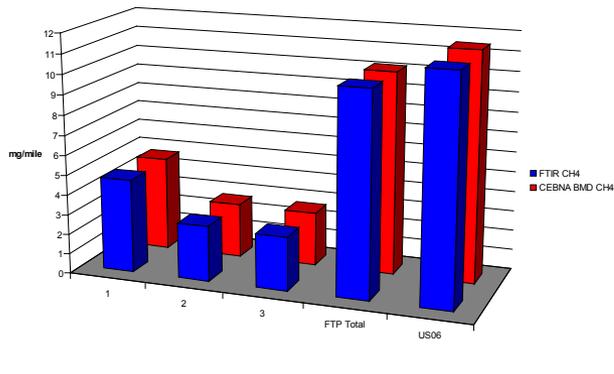


N₂O FTP75 and HWFET

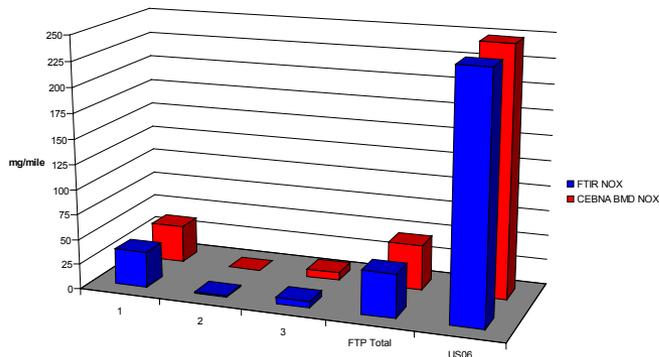


N₂O FTP75, US06: CH₄ & NOX

CH₄ Dilute Mass Comparison



NOX Dilute Mass Comparison



- Comparison data collected for a number of regulated components including CO, CO₂, NOX, N₂O, and CH₄.

- SESAM FT-IR bench compares favorably (5% engine out; 4% dilute) with respect to standard emissions analyzers across vehicles and standard certification test cycles.

- FT-IR compares nicely ($\leq \pm 8\%$) with the GC-ECD method in the measurement of ppb levels of N₂O.