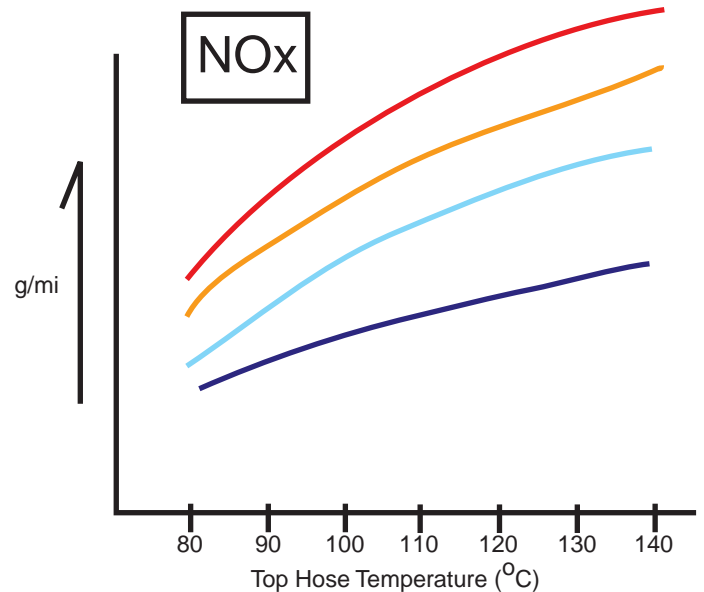
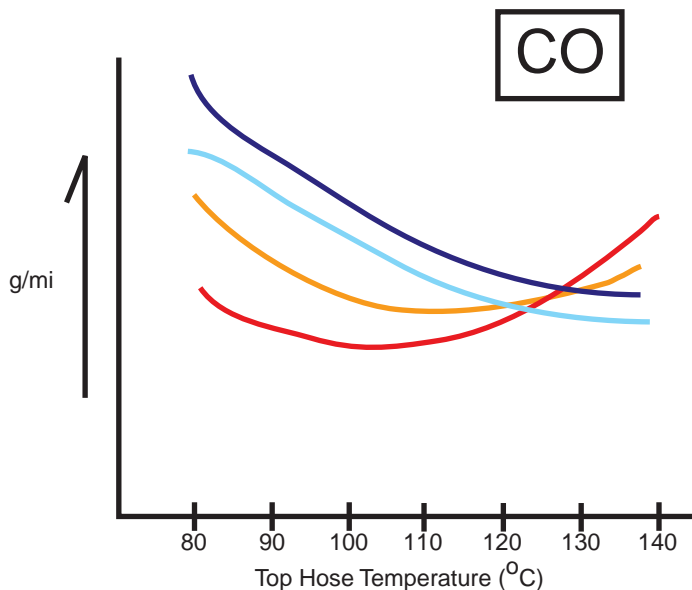
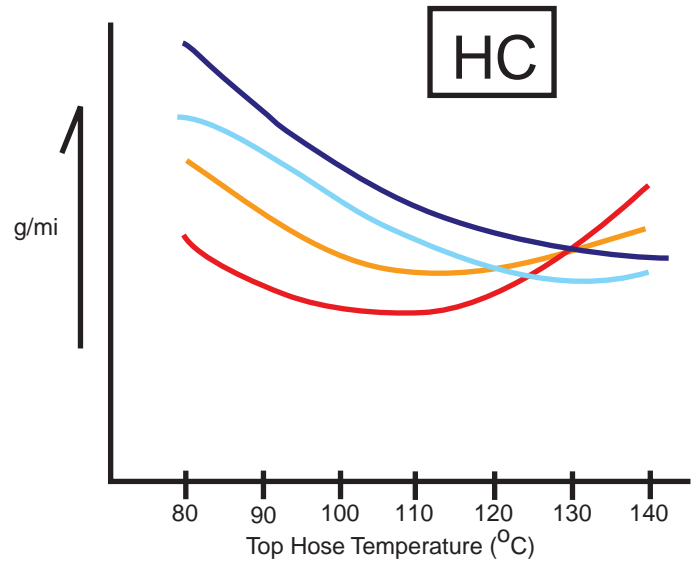
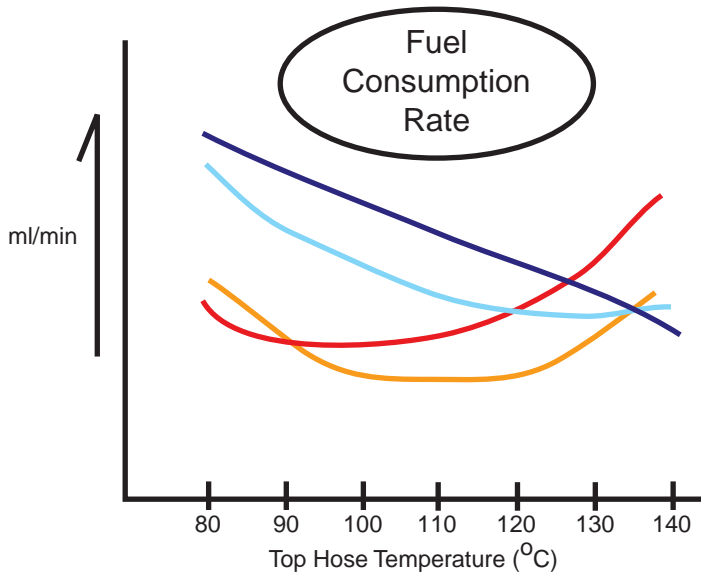


Example Engine Mapping - determine optimum by-pass water temperatures @ ambient temperatures: +40°C, +20°C, 0°C & -20°C and engine speed @ constant 2000 RPM.

Facilities: Small engine dynamometer environmental cell housing engine (complete with radiator/fan; induction air ducts; and catalytic converter system).



Software Program

A software program would be empirically developed to balance the above four important values to optimize the EETC™ capabilities:

- Sample fuel consumption rate, HC, CO, & NOx values by changing the by-pass water temperatures in steps between 80°C through 140°C (several ambient temperature & engine speed conditions).
- Software program to select optimum by-pass water temperatures to provide balance between these four values (plus including catalytic converter effect).
- EETC™ digital system would be programmed to selectively "TREND" toward maintaining optimum by-pass water temperatures during all driving conditions.