

Protocol for Gravimetric Measuring of Diurnal Emissions from Portable Plastic Gas Stations

Equipment:

Calibrated Electronic Top Loading Balance
SHED

Procedure:

1. Check tank for leaks before testing.
2. Fill tank 1/2 full of test fuel.
3. Place tank in SHED and acclimate at 65 deg. for a minimum of 6 hours before testing begins.
4. Weigh each tank and record weight, date and time, prior to starting diurnal test.
5. Run diurnal using 65-105-65 temperature profile.
6. Weigh each tank after running 24-hr diurnal and note: date, time, and weight, weight loss measurements for each day of testing.
7. Ensure that weighing take place at the same time each day, and at the same point during the diurnal cycle., i.e., w/in an hour before starting diurnal, and w/in an hour after end of diurnal.
8. Conduct gravimetric testing until a stable weight loss occurs for three days, or until the data displays a correlation coefficient of 95% or higher.

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