Multiple tests were conducted to find the optimum height of the mobile sampling with trucks or UAVs. Methane emissions is the vehicle fuel, in which it collected and contributes towards ozone formation. Designed and fabricated a mounting extraction gas 25 Increase = 3 wind Emissions = small Bilal Khan, CENTER FOR LASER SENSING & DIAGNOSTICS, Dept. Mechanical Engineering, Colorado State University, Fort Collins, Colorado; Future Work

- Further field tests are required to understand the error sources in the true wind better. Testing will be repeated till the obtained results consistently show higher accuracy and reliability.
- Multiple mounting locations at varying heights on the truck can be tried to minimize the effects of the perturbed flow of air around the car.
- Develop calculation protocol for the determination of quantitative emission detection.
- Outdoor methane release and detection: Controlled outdoor methane release and mobile detection to investigate sensitivity of measurements for leak detection.
- Fugitive leak detection: Measure methane near various oil and gas facilities to look for actual fugitive methane leaks which would help improve estimates of methane emissions and let operators know of these issues.

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References