



Supplement of

Laboratory and field assessment of mid-infrared absorption (MIRA) instrument performance for methane and ethane dry mole fractions

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Concurrent testing of complete Aeris systems with separate calibration cylinders at NOAA CAO for the period of 4-21 June indicate mean bias of 0.01 ppb and standard deviation of 0.72 ppb. This test complements the 10-day test with 4 separate systems shown in Fig. 7, with similar results.

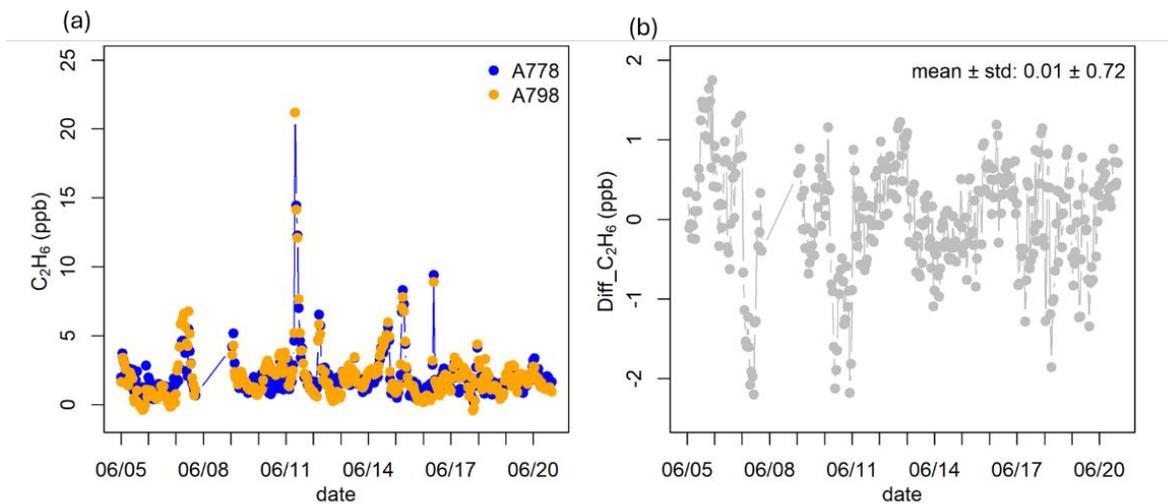


Figure S2. (a) Calibrated hourly ethane data from Aeris MIRA Ultra instruments (serial number A778 and A798) at CAO over the time period of June 2024, and (b) the difference of ethane between these two Aeris MIRA Ultra instruments.