

## AQRP Monthly Technical Report

<b>PROJECT TITLE</b>	Identifying and Apportioning Ozone Producing Volatile Organic Compounds in Central Texas	<b>PROJECT #</b>	17-053
<b>PROJECT PARTICIPANTS</b>	Aerodyne Research, Inc.	<b>DATE SUBMITTED</b>	6/8/2017
<b>REPORTING PERIOD</b>	<b>From:</b> May 1, 2017 <b>To:</b> May 31, 2017	<b>REPORT #</b>	5

A Financial Status Report (FSR) and Invoice will be submitted separately from each of the Project Participants reflecting charges for this Reporting Period. I understand that the FSR and Invoice are due to the AQRP by the 15<sup>th</sup> of the month following the reporting period shown above.

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### Detailed Accomplishments by Task

Calendar: The project was executed. Data was actively collected from May 11<sup>th</sup> to May 31<sup>st</sup> at three sites, per the experimental plan. Analysis and data quality assurance will commence now.

There will be a meeting on 6/9 to discuss next steps.

1. Logistic wrap-ups
2. Caravel & ownCloud
3. The formal one minute timebase discussion, tools and procedures
4. Specific Vectors for 1 minute timebase
  - a. CO<sub>2</sub>
  - b. CO, N<sub>2</sub>O, H<sub>2</sub>O;
  - c. HCHO, HCOOH, H<sub>2</sub>O/ H<sub>2</sub>O<sub>2</sub>, HONO
  - d. Ethane, methane, propane
  - e. HCN, C<sub>2</sub>H<sub>2</sub>
  - f. FID
  - g. NO, NO<sub>2</sub>, O<sub>3</sub>
  - h. I-CIMS
  - i. PTR-MS
  - j. AMS
  - k.  $j\text{-NO}_2 \rightarrow j\text{-O}_3$ , HCHO
  - l. lat, lon, wind
  - m. other datasets
5. GC-EI-FID timebase and plans
6. Calendar dates
7. Data-Report goals

**Preliminary Analysis**

*The other report indicates some of the initial observations and these will not be repeated here. The principal task associated with this reporting involve the next steps. Two time bases have been established for final data. One is a 1 minute reporting vector and the other is average value between the start and stop sample time for the gas chromatogram. The solar elevation angle has been computed and put on the one minute time base as a 'pilot' vector.*

**Data Collected**

*The campaign data is backed up fully in multiple locations.*

**Identify Problems or Issues Encountered and Proposed Solutions or Adjustments**

*The GC-EI-FID had some operational problems and will not produce full coverage.*

**Goals and Anticipated Issues for the Succeeding Reporting Period**

*We plan to write a data report.*

**Detailed Analysis of the Progress of the Task Order to Date**

**Do you have any publications related to this project currently under development? If so, please provide a working title, and the journals you plan to submit to.**

Yes       No

**Do you have any publications related to this project currently under review by a journal? If so, what is the working title and the journal name? Have you sent a copy of the article to your AQRP Project Manager and your TCEQ Liaison?**

Yes       No

**Do you have any bibliographic publications related to this project that have been published? If so, please list the reference information. List all items for the lifetime of the project.**

Yes       No

**Do you have any presentations related to this project currently under development? If so, please provide working title, and the conference you plan to present it (this does not include presentations for the AQRP Workshop).**

Yes       No, all presentations are internal or amongst performers

**Do you have any presentations related to this project that have been published? If so, please list reference information. List all items for the lifetime of the project.**

Yes       No

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Submitted to AQRP by Scott Herndon and Tara Yacovitch

Principal Investigators