**Interactive comment on** “Organosulfates in Atlanta, Georgia: Anthropogenic influences on biogenic secondary organic aerosol formation” by Anusha Priyadarshani Silva Hettiyadura et al.

**Anonymous Referee #2**

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**General comments**

The study examines the influence of anthropogenic emissions to formation of organosulfates in an urban site in the Southeastern United States (SE-US). This is achieved by quantifying the major organosulfates from ambient measurements and comparing the identified compounds with those from laboratory experiment and a rural site in the SE-US, and other tracers measurements. The study reveals an enhanced formation of isoprene-derived organosulfate concentration, particularly the 2-methylglyceric acid sulfate which is known to be a tracer for high-NOx isoprene-derived secondary organic aerosol (SOA) formation mechanism. The general objective is clear and the methods are well executed. There are some minor errors in the manuscript and some clarifications needed. Overall, I recommend accepting this manuscript for publication after corrections as detailed in the following.

**Technical comments**

Define abbreviations at their first appearance when you are using them repeatedly, such as: GA (Pg 1 Ln 12), AL (Pg 1 Ln 22)

Pg 1 Ln 11: add (US) after Southeastern United States

Pg 7 Lns 12-15: It is said here that the correlation between 2-methylglyceric acid sulfate with 2-methylglyceric acid is significant at $r = 0.608$. Based on description in Section 2.7, this correlation values is classified to be moderate. The use of “significant” is ambiguous, as it may be inferred as “strong”. I recommend being consistent with the classification and description throughout the text.

Pg 11 Ln 30: insert “an authentic” before standard development.