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## Interactive comment on "Characterization of primary and secondary wood combustion products generated under different burner loads" by E. A. Bruns et al.

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PAH molecular ions have been shown to occur at even molecular masses. In the case of the HR-ToF-AMS, the strongest signals are seen at the [M]+ unless there are an odd number of carbons, in which case the strongest signal is typically at [M-1]+ (Džepina et al. 2007). In Table 2 of the manuscript, the authors provide a list of "PAH parent ions" and include five ions with odd molecular masses (m/z 139, 163, 165, 189, 199). It is not made clear which PAH compounds these ions are expected to be originating from. Bente et al. (2009) had previously attributed some of these ions (m/z 139, 165, 189) to alkylated aromatic fragments of PAH compounds. Could the authors clarify how they

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determined the classification of these odd-molecular mass ions?

## References

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Interactive comment on Atmos. Chem. Phys. Discuss., 14, 26041, 2014.