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**Title: Measurement report: Receptor modelling for source identification of urban fine and coarse particulate matter using hourly elemental composition**

We would like to thank the Editor for very careful review of our paper, and for the comments and corrections. We took into account all comments in the revised version of the manuscript

**Editor comments:**

*The authors have reasonably addressed the comments of the three anonymous referees and they have modified their manuscript accordingly. However, many alterations and corrections are needed for the Main text before the manuscript can be published in ACP:*

*Line 14: Replace "models, was" by "models was".*

*Line 20: Replace "of identified" by "of the identified".*

*Line 26: Replace "of different" by "of the different".*

*Line 33: Replace "show strong" by "show a strong".*

*Line 34: Replace "Majority" by "The majority".*

*Line 60: Replace "in residential" by "in the residential".*

*Line 61: Replace ", hourly" by ", a hourly".*

*Line 65: Replace "Only limited" by "Only a limited".*

*Line 71: Replace ", following" by ", the following".*

*Line 86: Replace "of urban" by "of the urban" and replace "important ," by "important,".*

*Line 91: Abbreviations and acronyms, here "SA", should be defined (written full-out) when first used. Since "SA" does not occur further in the manuscript. it should be replaced here by "source apportionment".*

*Line 135: Replace "PIXE" by "The PIXE".*

*Line 138: Replace "PIXE" by "The PIXE".*

*Line 152: Replace ", using" by ", using the".*

*Line 168: Replace "for measurement" by "for the measurement".*

*Line 185: Replace "with measured" by "with the measured" and replace "for fine" by "for the fine".*

*Line 186: Replace "coarse" by "the coarse".*

*Line 187: Replace "revealed stable" by "revealed a stable".*

*Lines 196-197: Replace "The bivariate" by "Bivariate".*

*Line 213: Replace "Trajectories" by "The trajectories".*

*Line 224: The "a" before "cluster" should not be in italic.*

*Line 256: Replace "26% of" by "26% of the".*

*Line 257: Replace "comparing to" by "compared to".*

*Line 258: Replace "of fine" by "of the fine".*

*Line 269: Replace "in fine" by "in the fine".*

*Line 272: Replace "of fine" by "of the fine".*

*Line 275: Replace "analyzed" by "measured".*

*Line 279: Replace "Different" by "A different".*

Line 285: Replace "of concentration" by "of the concentration".

Lines 298-299: Replace "in residential" by "in the residential".

Line 300: Replace "between concentrations" by "between the concentrations".

Line 303: Replace "Concentrations" by "The concentrations".

Line 330: Replace "in residential" by "in the residential".

Line 331: Replace "and moderate" by "and a moderate".

Line 333: Replace "fraction," by "fraction;"

Line 337: Replace "2.5-times" by "2.5 times".

Line 341: Replace "also similar" by "also a similar".

Line 343: Replace "suggest crustal" by "suggests a crustal".

Line 345: Replace "As it was described" by "As described".

Line 346: Replace "with daily" by "with the daily".

Line 382: Replace "exhibits similar" by "exhibits a similar".

Line 387: Replace "levels higher" by "levels a higher".

Line 393: Replace "Also higher" by "Also a higher".

Line 399: Replace "and up to" by "to up to".

Line 407: Replace "with water" by "with the water".

Line 426: Replace "and notable contribution" by "and a notable contributor".

Line 427: Replace "typically crustal" by "typical crustal".

Line 432: Replace "mixed source" by "a mixed source" and replace "with substantial" by "with a substantial".

Line 433: Replace "Diurnal" by "The diurnal".

Line 440: Replace "and noticeable" by "and a noticeable".

Line 442: Replace "MgCl" by "MgCl<sub>2</sub>".

Line 457: Replace "of coarse" by "of the coarse".

Line 460: Replace "of Fe" by "of the Fe".

Line 473: Replace "strongly" by "strong".

Line 483: Replace "of Cu" by "of the Cu".

Line 488: Replace "in power" by "in the power".

Line 490: Replace "the elevated concentrations occurring atnight" by "elevated concentrations occurring at night".

Line 491: Replace "exhibited" by "observed".

Line 497: Replace "placed" by "situated".

Line 512: Replace "of Zn" by "of the Zn".

Line 516: Replace "in power" by "in the power".

Line 521: Replace "levels from" by "levels from the".

Line 526: Replace "in residential" by "in the residential".

Line 530: Replace "of Br" by "of the Br".

Line 533: Replace "where substantial" by "where a substantial".

Line 534: Replace "are used" by "is used".

Line 543: Replace "by EPA" by "by the EPA".

Line 545: Replace "of base" by "of the base".

Line 549: Replace "for fine" by "for the fine".

*Line 554: Replace "for fine" by "for the fine" and replace "Percentage" by "The percentage".*

*Line 555: Replace "in the parentheses" by "in parentheses".*

*Line 565: Replace "which starts" by "which start".*

*Line 566: Replace "composed of the" by "composed of".*

*Line 569: Replace "Air masses" by "The air masses".*

*Line 570: Replace "wherein air" by "while the air".*

*Line 572: Replace "of the trajectories" by "of trajectories".*

*Line 575: Replace "of air" by "of the air" and replace "on PMF" by "on the PMF".*

*Line 581: Replace "of sources" by "of the sources".*

*Line 587: Replace "shares" by "the shares".*

*Line 588: Replace "to elemental" by "to the elemental".*

*Line 602: Replace "at the ground" by "at ground".*

*Line 607: Replace "a.s.l. Half-hourly" by "a.s.l.. The half-hourly".*

*Line 610: Replace "where wind" by "where the wind".*

*Line 645: Replace "by the means" by "by means".*

*Line 655: Replace "different" by "the different".*

*Line 660: Replace "exploiting" by "exploitation".*

*Line 662: Replace "and Cl-rich" by "and the Cl-rich".*

*Line 666: Replace "and mixed" by "and a mixed".*

*Line 668: Replace "and traffic" by "and a traffic".*

*Line 670: Replace "showed" by "showed a" and replace "from south" by "and a traffic".*

*Line 671: Replace "while more" by "while a more" and replace "of identified" by "of the identified".*

*Line 676: Replace "showed strong" by "showed a strong" and replace "of soil" by "of the soil".*

All the above corrections have been made.

*Line 251, further within the manuscript, and Table 1: Many numeric data are given with too many significant figures; 2 significant figures suffice and 3 suffice in case the first significant figure is "1".*

The manuscript presents the concentrations of the PM-bound elements with a wide range of the levels (from below 1 up to more than 1000). In our opinion, the rounding of the concentrations, in particular the lower ones, could result in the loss of important information and would distort the meaning of the results that can be cited in further articles. In the whole manuscript, we consistently show the values of the concentrations with 1 decimal place.