



Supplement of

AIRUSE-LIFE+: a harmonized PM speciation and source apportionment in 5 Southern European cities

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Supplementary material

Table S1: Summary of the number of samples collected for each city and analytical technique in
 colours.

			BCN-UB	FI-UB	MLN-UB	POR-TR	ATH-SUB
Daily samples	PM10	Mass	122	226	379	123	197
		Elements	122 ^I	226 ^P	241 ^{P/X}	123 ^{P/I}	197 ^{P/I}
		Ions	122	226	337	123	197
		EC/OC	122	226	348	123	197
		CC	122	226	89	123	197
	PM2.5	Mass	126	243	378	126	243
		Elements	126 ^I	243 ^P	361 ^x	126 ^{P/I}	243 ^{P/I}
		Ions	126	243	374	126	243
		EC/OC	126	243	370	126	243
		Levoglucosan	126	243	356	126	243
^P : PIXE, ^I : ICP, ^X : XRF							



Figure S1. Comparison of results obtained with different analytical techniques in Porto (left panels) and Florence (right panels).



Figure S2. Comparison of results obtained with PIXE and XRF techniques in Milan for Al, Si, Cl
and K. Red fits are constrained to the origin.



Figure S3. Seasonal variation of mean levels (± standard deviation) of PM10 and PM2.5 levels for
 the study period at the five AIRUSE cities.



Figure S4. Ion balance of anionic (ions-: Cl^{-} , NO_{3}^{-} and SO_{4}^{2-}) and cationic (ions+: NH_{4}^{+} . Na^{+} , K^{+} , Ca^{2+} , Mg^{2+}) species in daily samples of PM10 and PM2.5 from the five AIRUSE cities.



07/12/2012 26/01/2013 17/03/2013 06/05/2013 25/06/2013 14/08/2013 03/10/2013 22/11/2013 11/01/2014 02/03/2014 21/04/2014



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Figure S5. Daily source contributions to PM10 or PM2.5 levels for the study period at the five AIRUSE cities.