

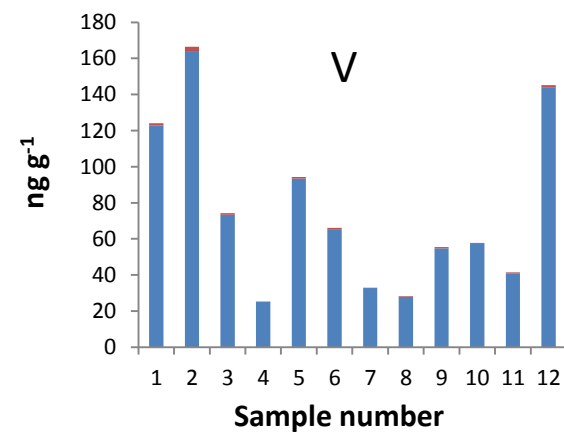
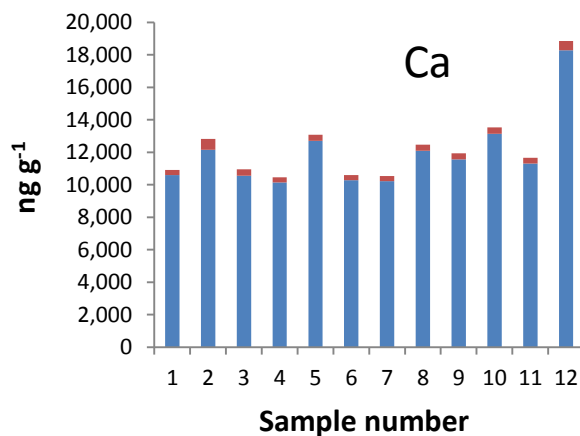
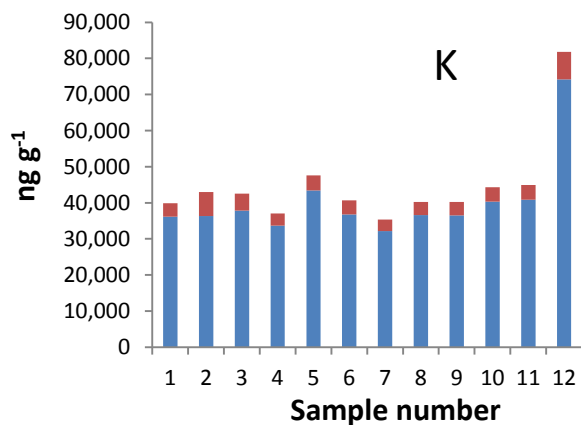
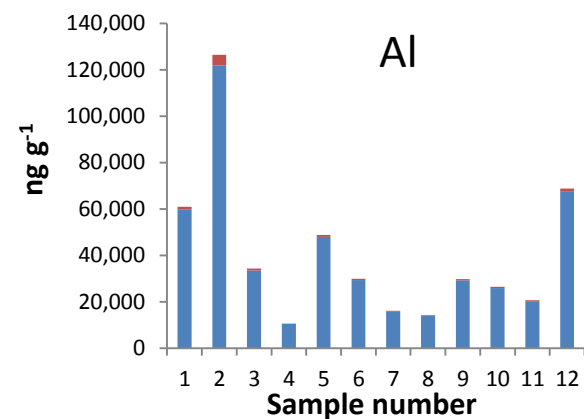
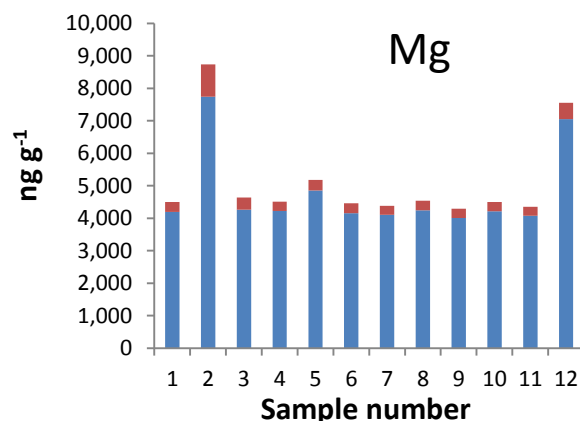
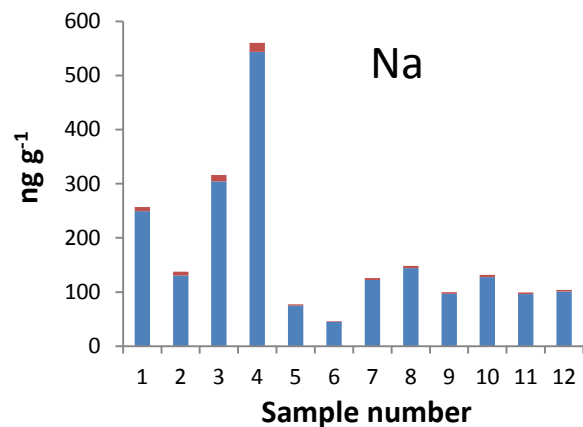
The Hookah Series Part 1: Total Metal Analysis in
Hookah Tobacco (Narghile, Shisha) – an Initial Study
by
R. Saadawi, J. Landero Figueroa, T. Hanley, J. Caruso

Supplementary information

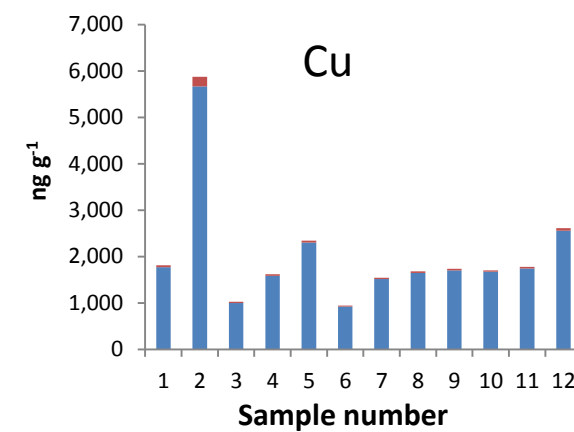
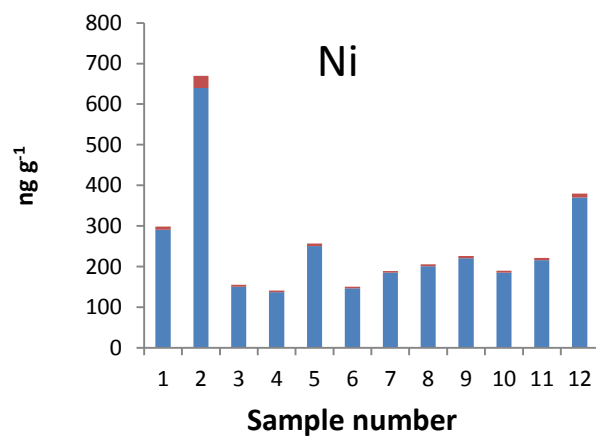
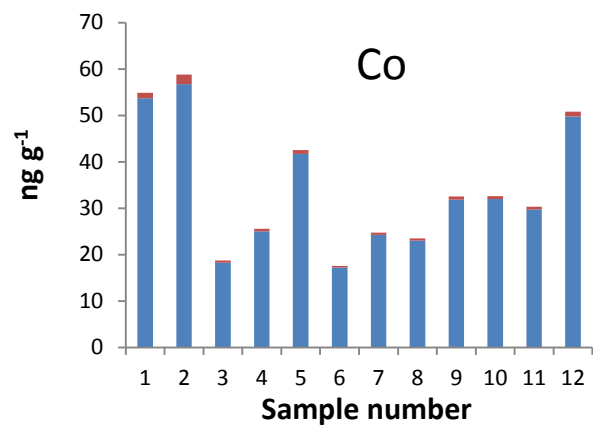
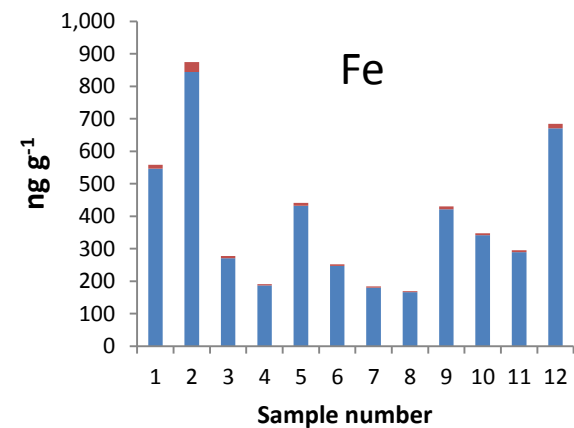
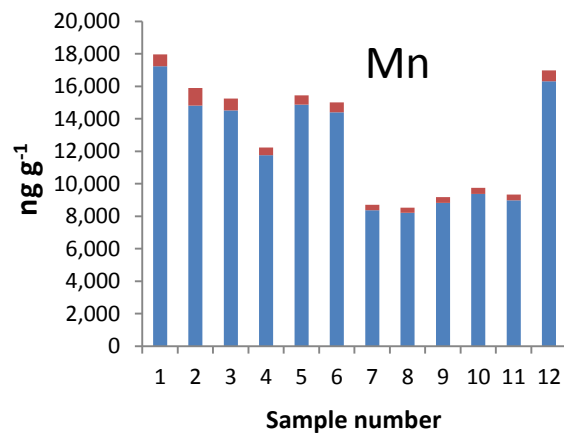
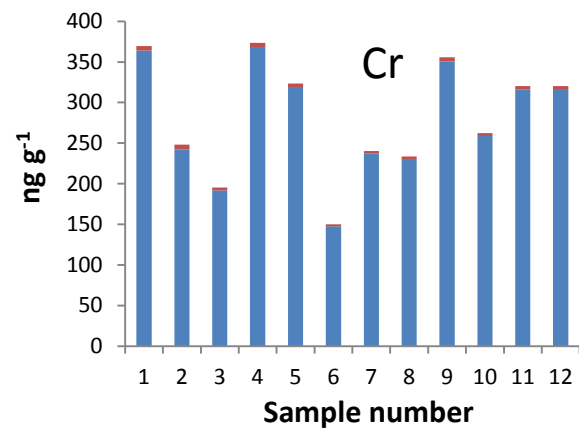
Element	Certified value	SD	Determined	SD*
Na	136	4	133	5
Al	598	12	609	16
V	0.835	0.01	0.840	0.05
Cr	1.99	0.06	2.02	0.08
Mn	246	8	250	12
Fe	3.68	7	3.72	9
Co	0.57	0.02	0.61	0.06
Ni	1.59	0.07	1.62	0.08
Cu	4.70	0.14	4.90	0.18
Zn	30.9	0.7	40.2	0.8
Se	0.054	0.003	0.060	0.008
As	0.112	0.004	0.116	0.012
Sb	0.063	0.006	0.065	0.009
Cd	1.52	0.04	1.55	0.07

* n = 4

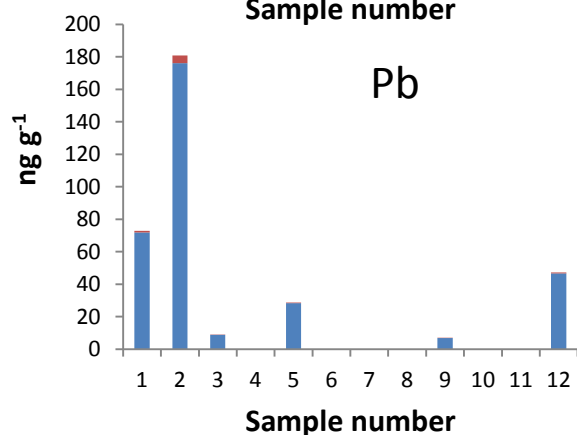
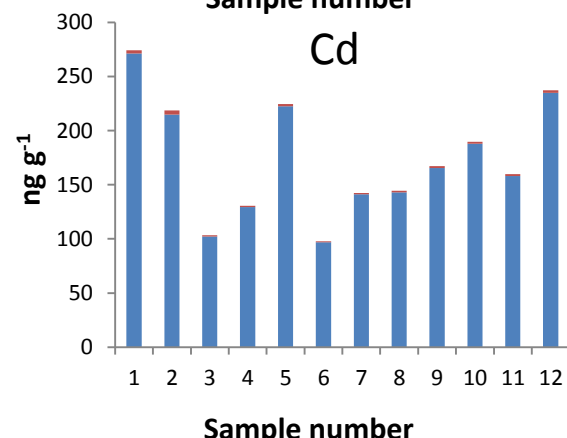
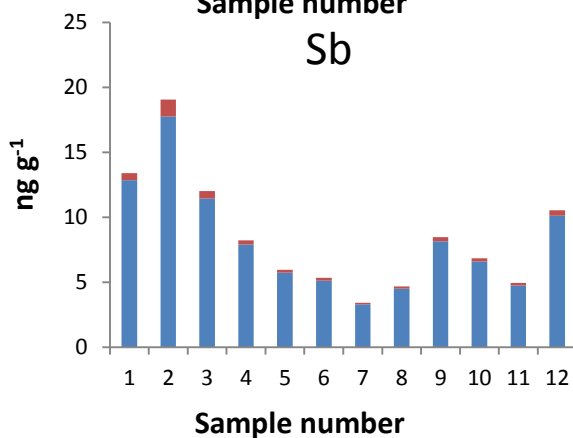
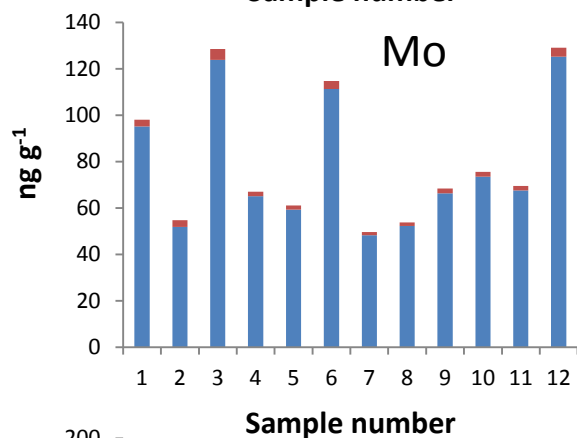
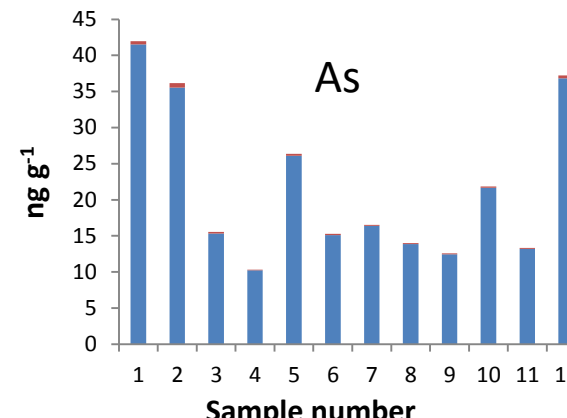
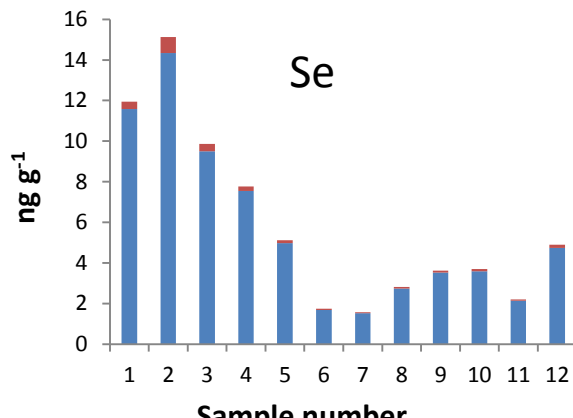
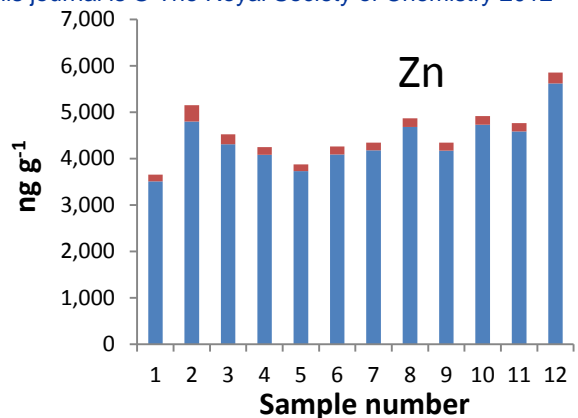
Supplementary Table 1. Results of the total elemental analysis performed on the standard reference material NIST 1573a, tomato leaves. Reported values with standard deviation.



Supplementary Figure 1 (S1a). Bar graph representation of the results from total metal analysis of the twelve hookah samples, on blue is represented the contribution of the tobacco leaves, after the hot water extraction, and in red the contribution of the extracted part.



Supplementary Figure 1 (S1b). Bar graph representation of the results from total metal analysis of the twelve hookah samples, on blue is represented the contribution of the tobacco leaves, after the hot water extraction, and in red the contribution of the extracted part.



Supplementary Figure 1 (S1c). Bar graph representation of the results from total metal analysis of the twelve hookah samples: blue represents the contribution of the tobacco leaves, after the hot water extraction, and red the contribution from the extract.