Localized Quantitative Analysis of Polymeric Films Through Laser Ablation–Inductively Coupled Plasma Mass Spectrometry

Ángela Villaseñor [1], Raquel Sánchez [1], Marina Boccongelli [2], and José-Luis Todolí [1,*]

[1] Department of Analytical Chemistry, Nutrition and Food Sciences, University of Alicante, P.O. Box 99, 03080 Alicante, Spain; angela.vm@ua.es (A.V.); r.sanchez@ua.es (R.S.)
[2] Total Research & Technology Feluy, Zone Industrielle C, B-7181 Feluy, Belgium; marina.boccongelli@total.com
* Correspondence: jose.todoli@ua.es

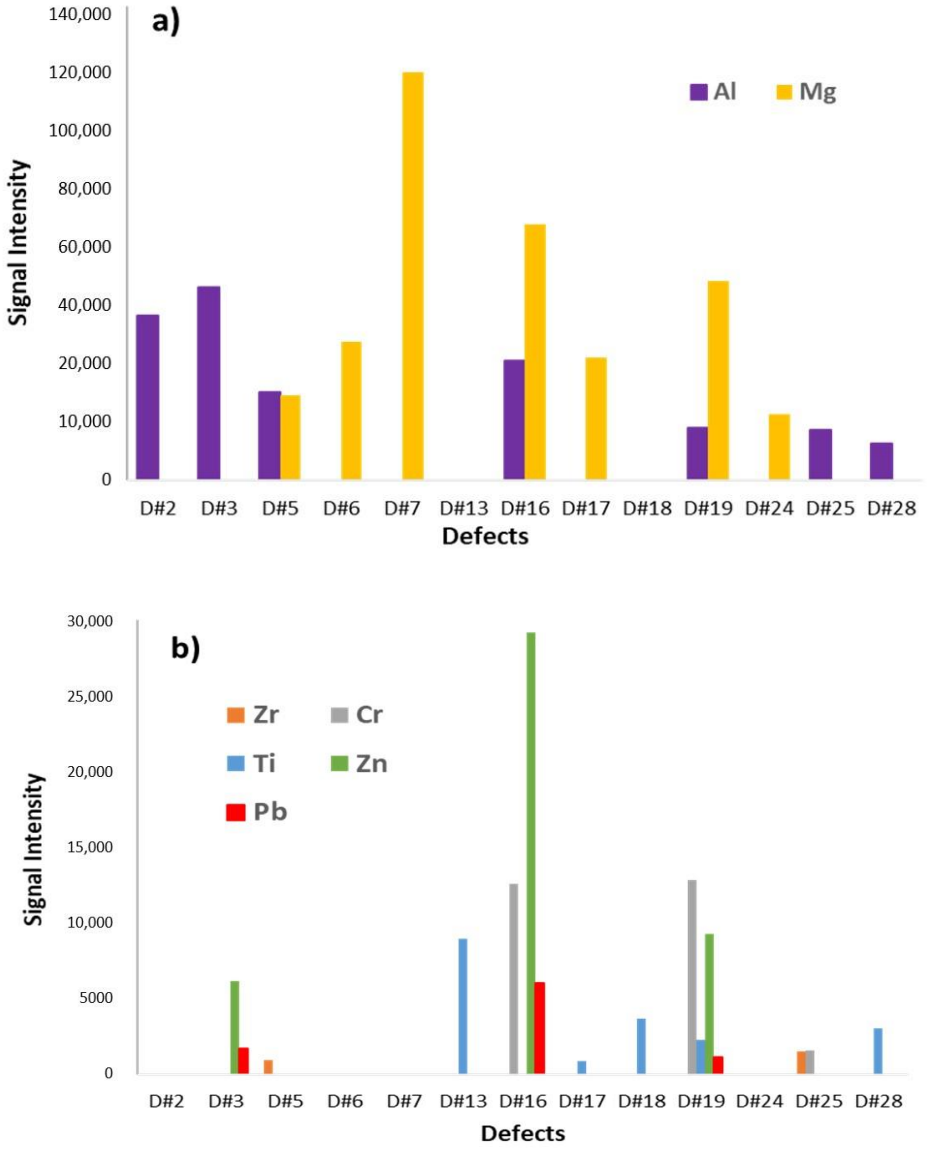


Figure S1. ICP-MS intensities of (**a**) major and (**b**) minor elements present in the different defects found in film #1.

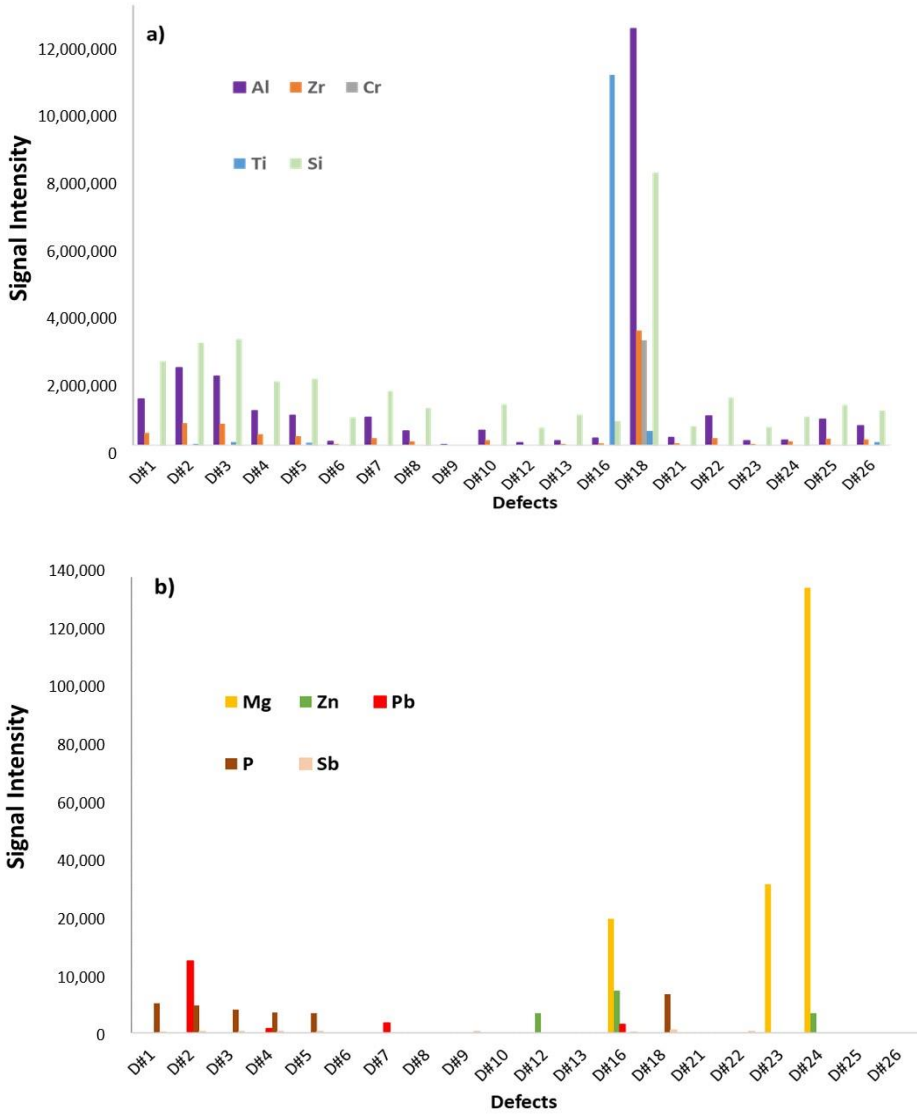
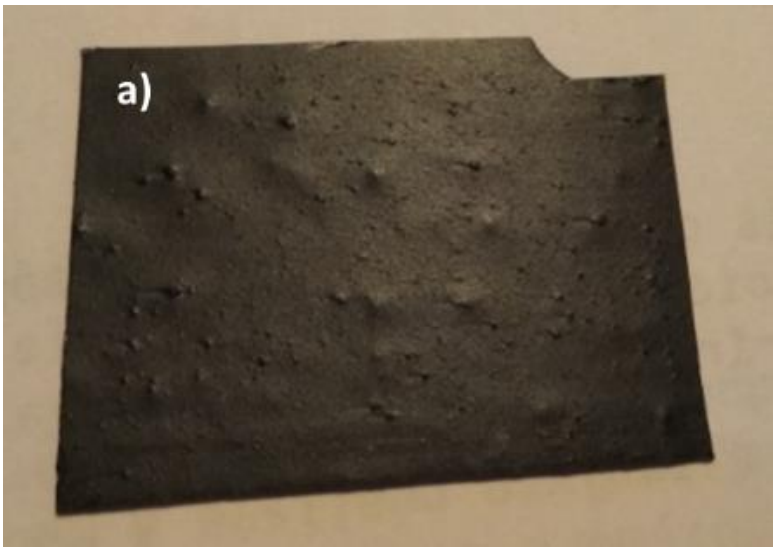
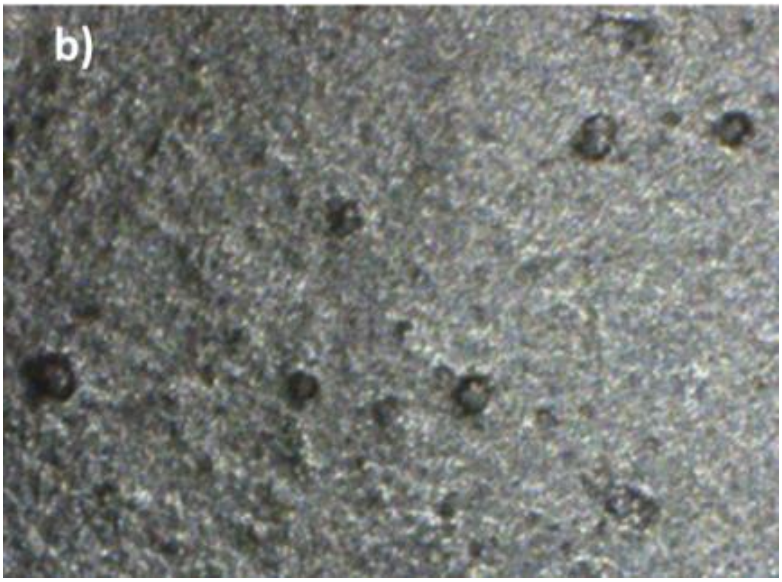


Figure S2. ICP-MS intensities of (**a**) major and (**b**) minor elements present in the different defects found in film # 2.



(a)



(b)

Figure S3. Pictures of the surface of film # 3. (**a**) general view and (**b**) detail of the defects present in the film.

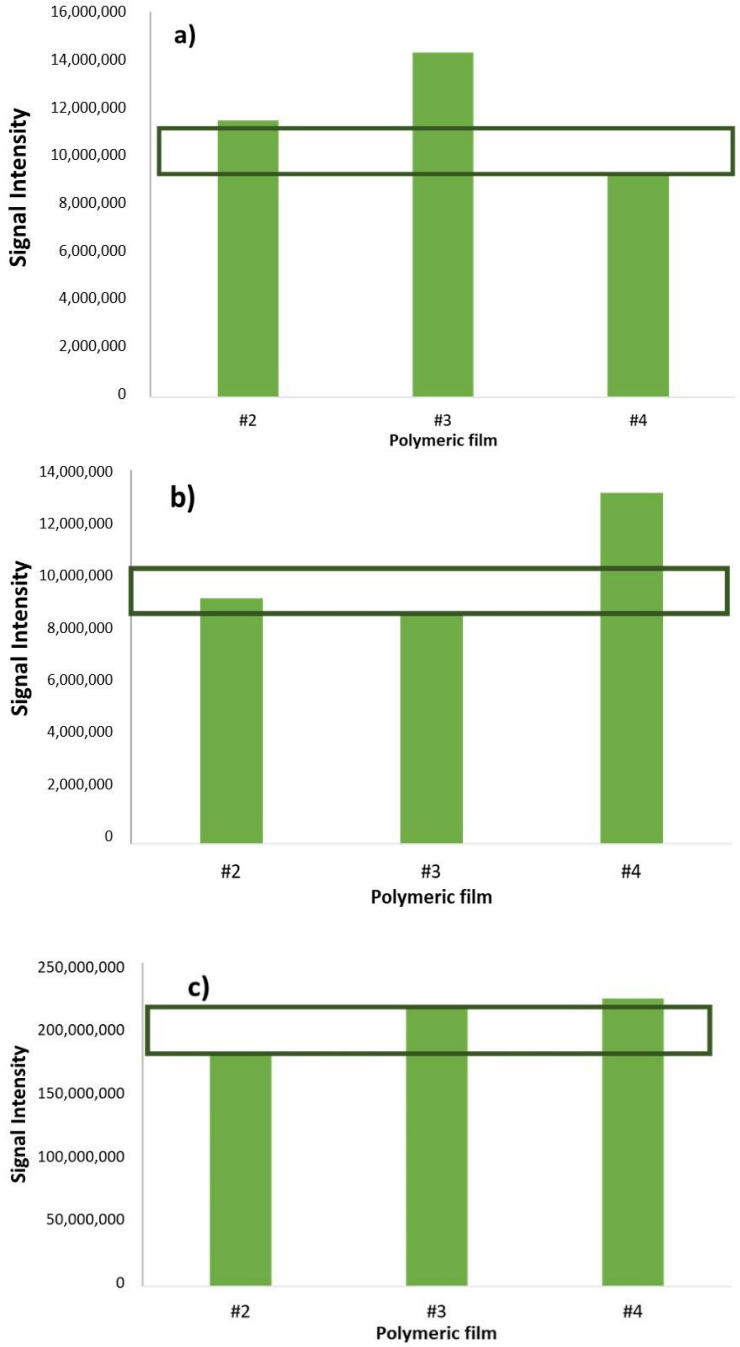


Figure S4. (**a**) ^{111}Cd; (**b**) ^{208}Pb; and (**c**) ^{52}Cr ICP-MS intensities corresponding to the solid residues left after evaporation of a 20 mg/L standard. The boxes give a 20% acceptability interval.

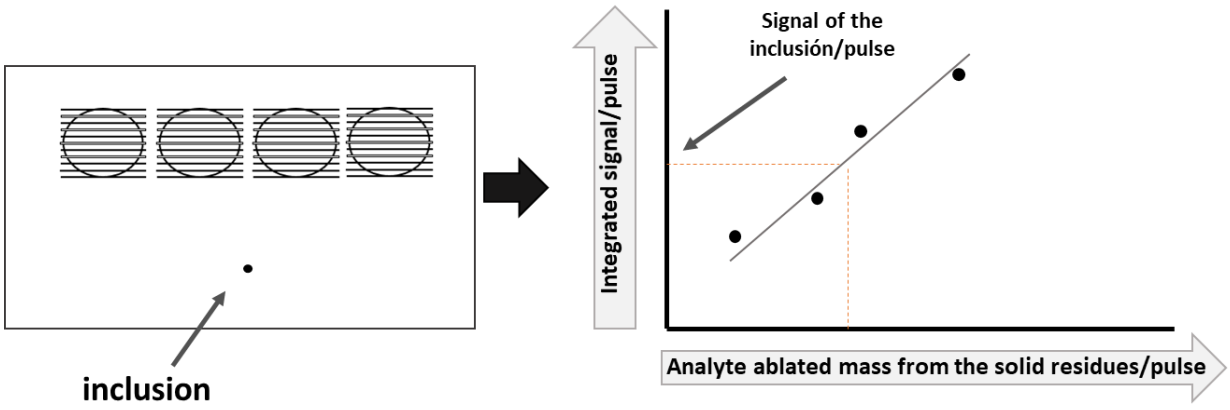
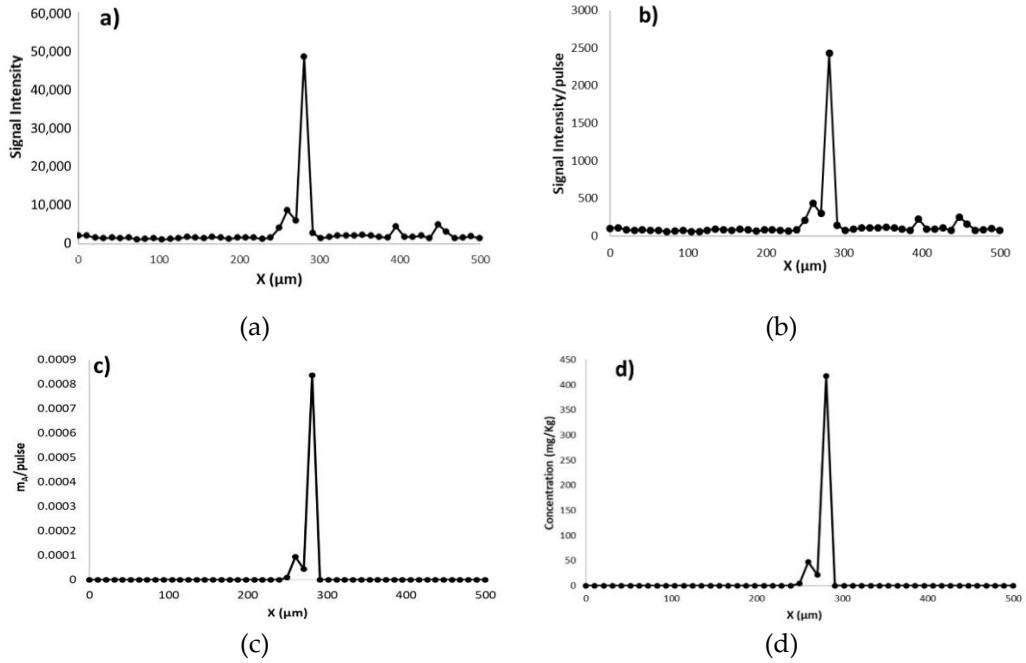


Figure S5. Scheme of the quantification methodology followed for the multielemental analysis of inclusions in polymeric films.



(a) (b)

(c) (d)

Figure S6. ICP-MS ^{27}Al signal versus scan line length (**a**), ^{27}Al signal per pulse versus scan line length (**b**), Aluminum ablated mass per pulse versus the scan line length (**c**) and Aluminum concentration (mg/kg) versus the scan line length (**d**) corresponding to the defect # 2 of the film # 1.