

Improved Mapping of Potentially Toxic Elements in Soil via Integration of Multiple Data Sources and Various Geostatistical Methods

Fang Xia ^{1,2,3}, Bifeng Hu ^{3,4,5,6}, Youwei Zhu ⁷, Wenjun Ji ⁸, Songchao Chen ^{3,9}, Dongyun Xu ^{3,4} and Zhou Shi ^{3,4,*}

¹ College of Economics and Management, Zhejiang A&F University, Hangzhou 311300, China; xiaf@zafu.edu.cn

² Zhejiang Province Key Cultivating Think Tank—Research Academy for Rural Revitalization of Zhejiang Province, Zhejiang A&F University, Hangzhou 311300, China

³ Institute of Agricultural Remote Sensing and Information Technology Application, College of Environmental and Resource Sciences, Zhejiang University, Hangzhou 310058, China; bifeng.hu@inra.fr (B.H.); Songchao.Chen@inrae.fr (S.C.); xudongyun@zju.edu.cn (D.X.)

⁴ Key Laboratory of Environment Remediation and Ecological Health, Ministry of Education, College of Environmental and Resource Sciences, Zhejiang University, Hangzhou, 310058, China

⁵ Sciences de la Terre et de l'Univers, Orléans University, 45067 Orléans, France

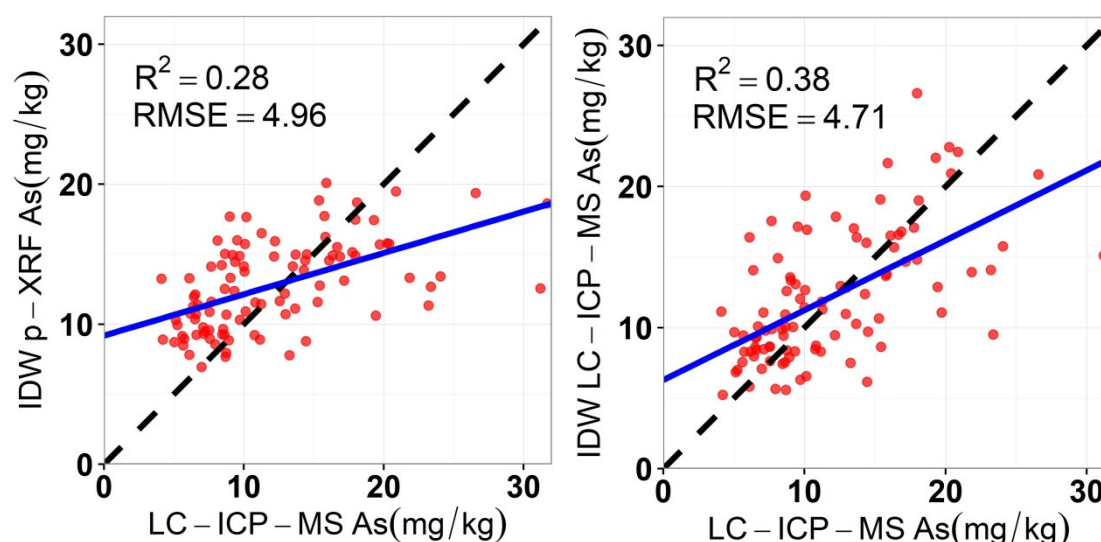
⁶ Unité de Recherche en Science du Sol, INRA, Orléans 45075, France

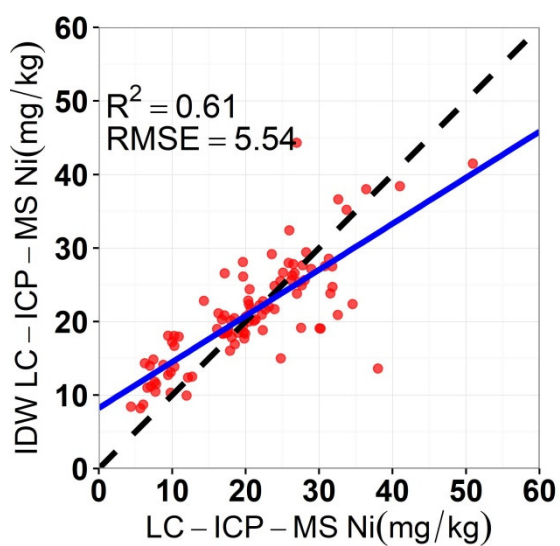
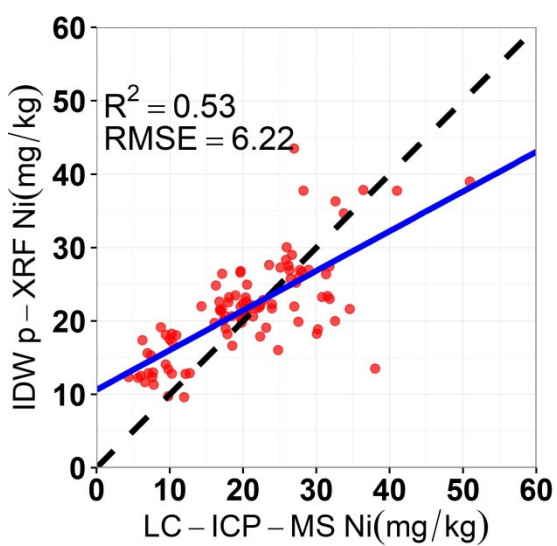
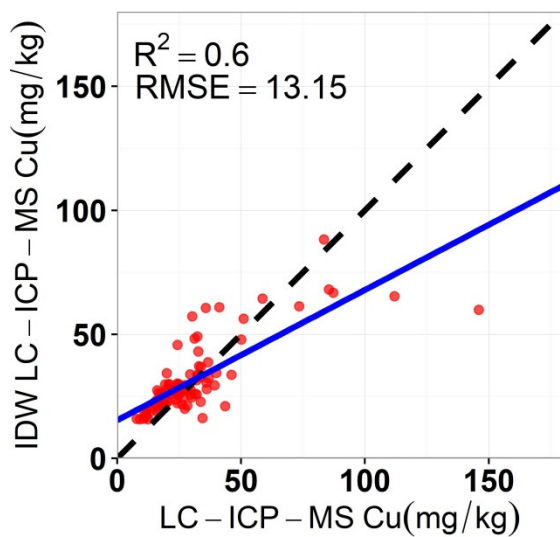
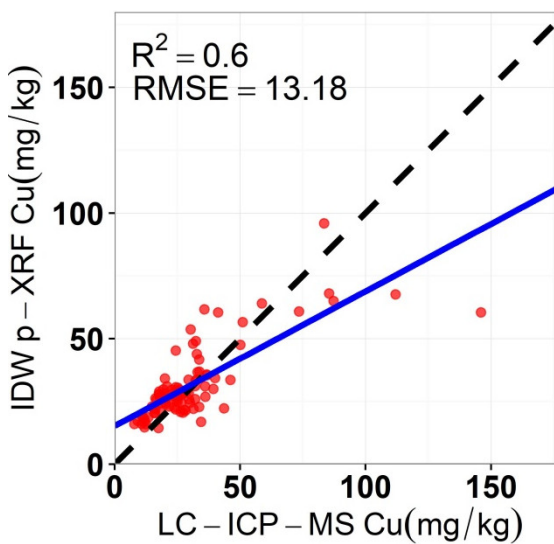
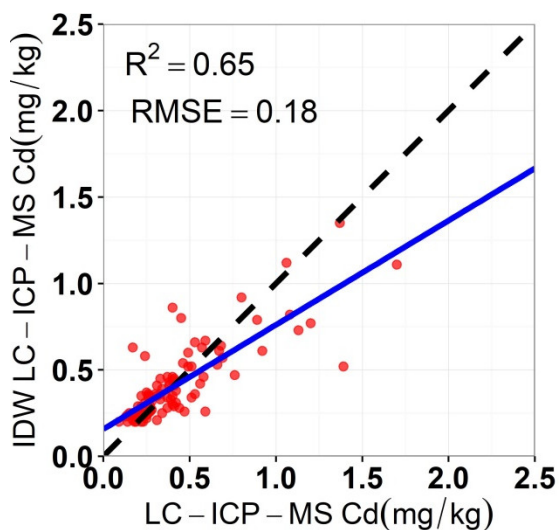
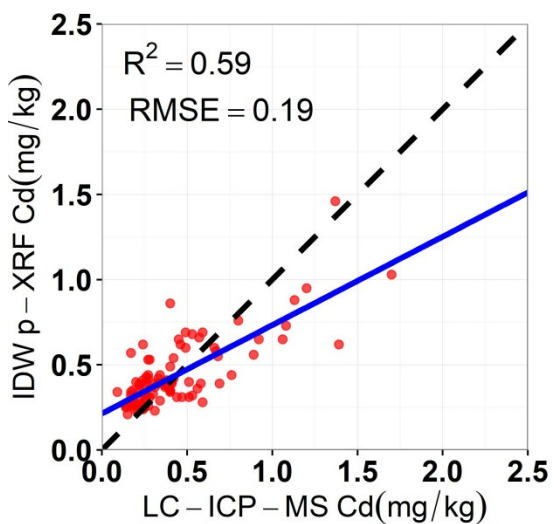
⁷ Protection and Monitoring Station of Agricultural Environment, Bureau of Agriculture, Hangzhou 310020, Zhejiang, China; zhuyw@zjagri.gov.cn

⁸ College of land Science and Technology, China Agricultural University, Beijing 100085, China; wenjun.ji@cau.edu.cn

⁹ Unité InfoSol, INRAE, 45075 Orléans, France

* Correspondence: shizhou@zju.edu.cn





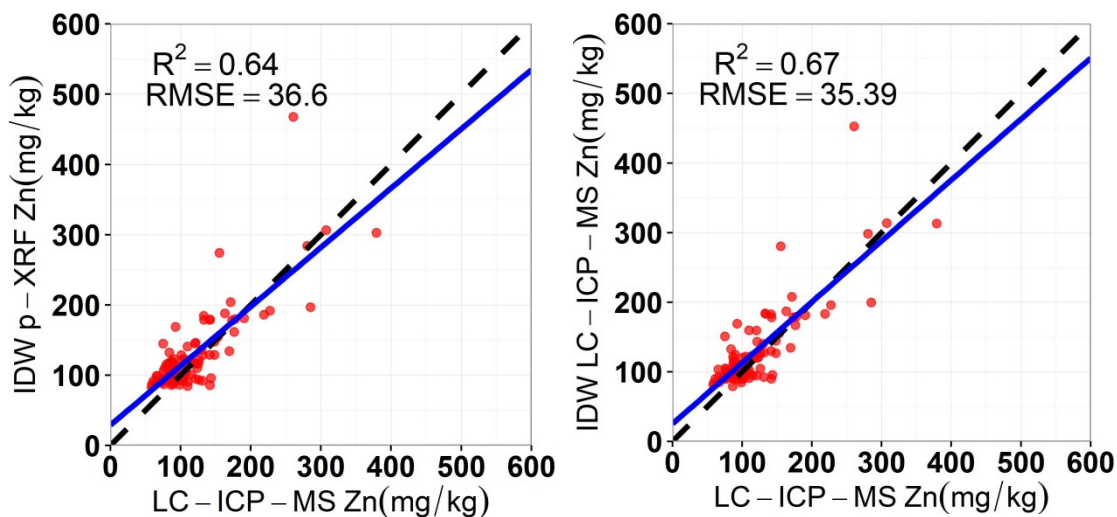
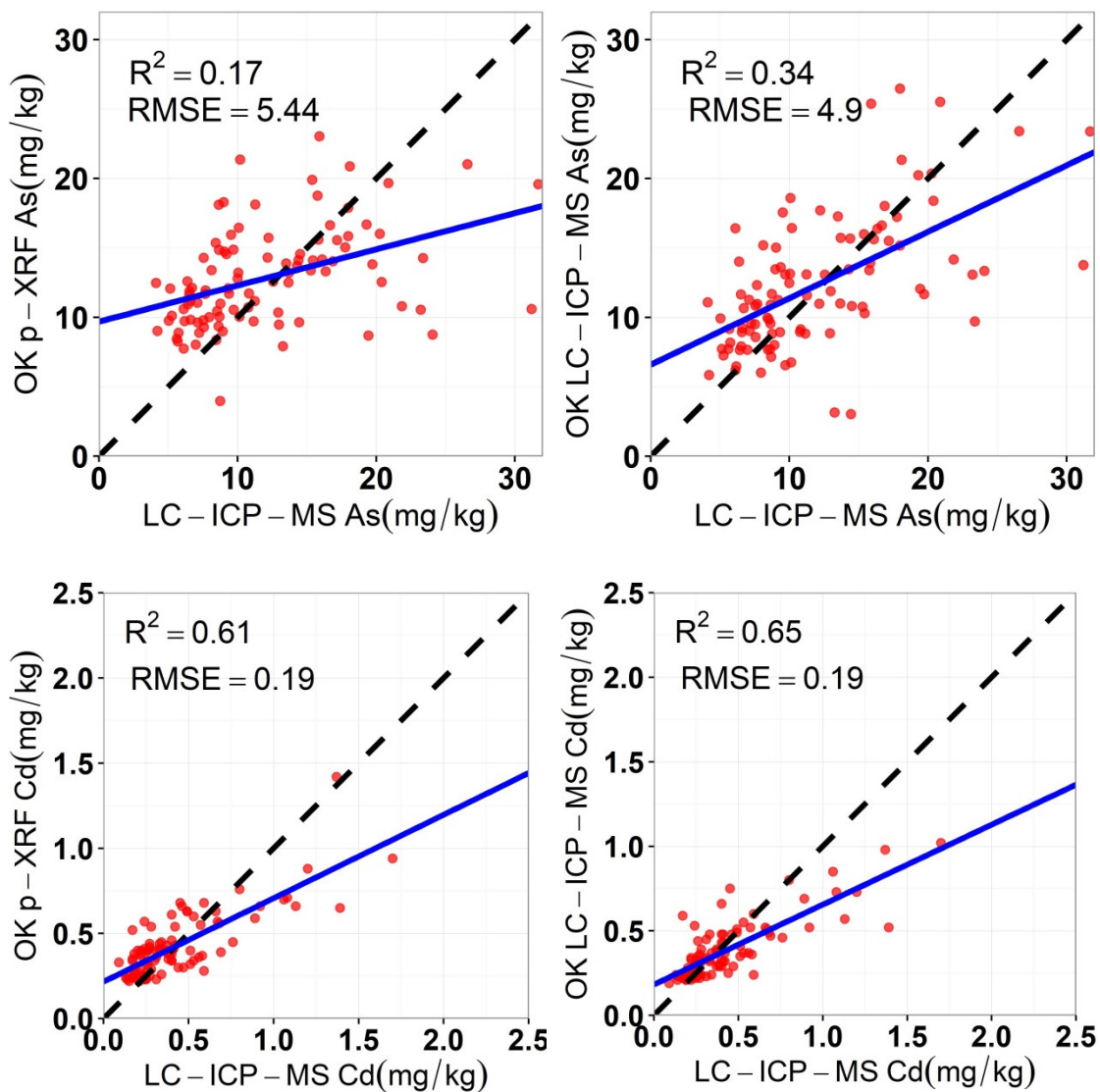


Figure S1. Scatter plot of spatial prediction values using IDW Vs PTEs content measured by LC-ICP-MS method.



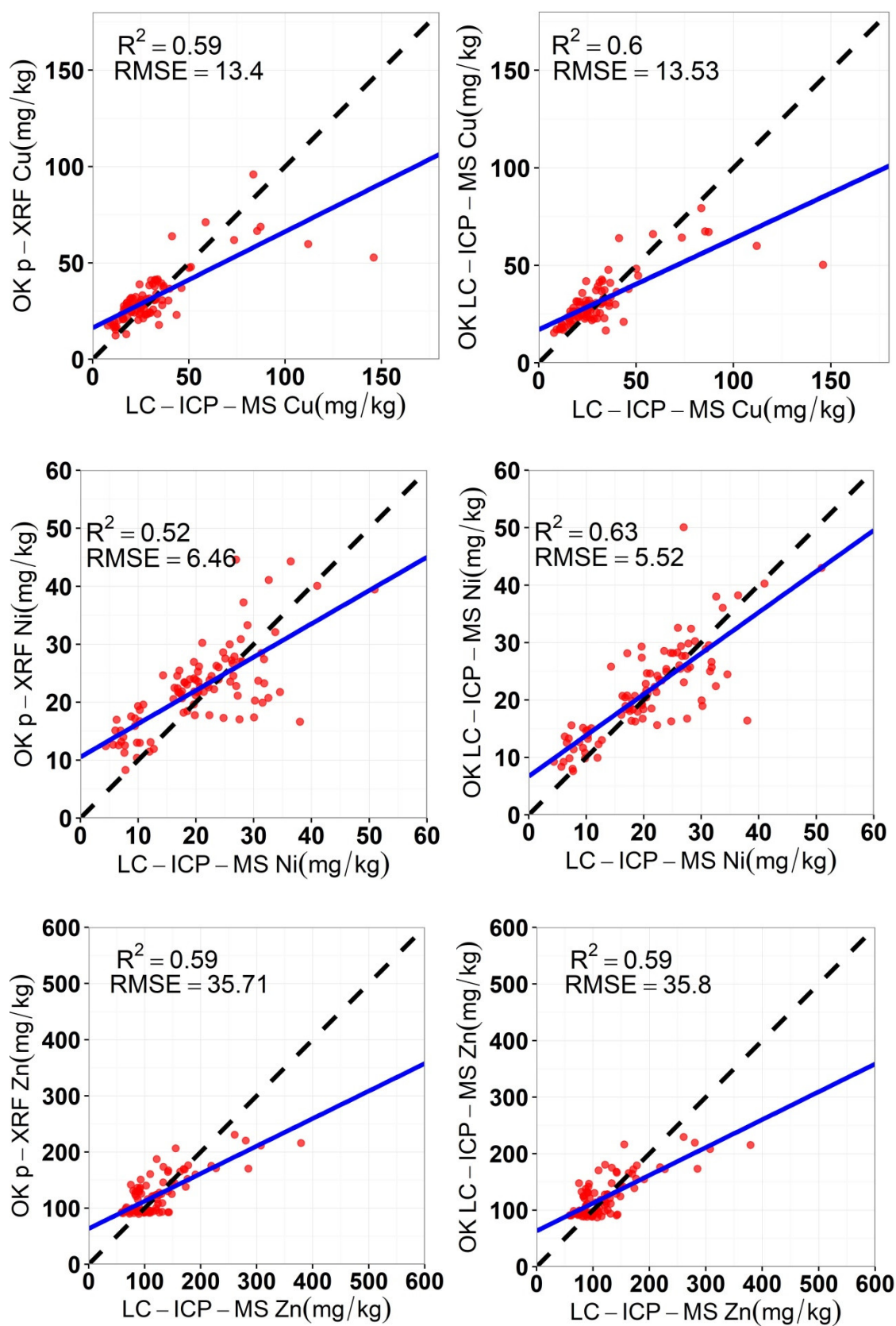
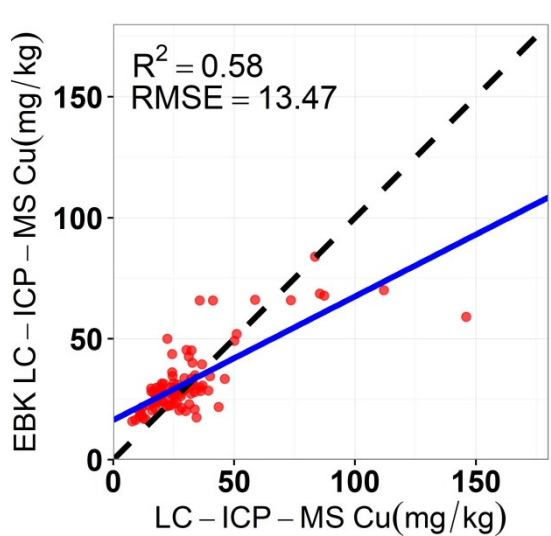
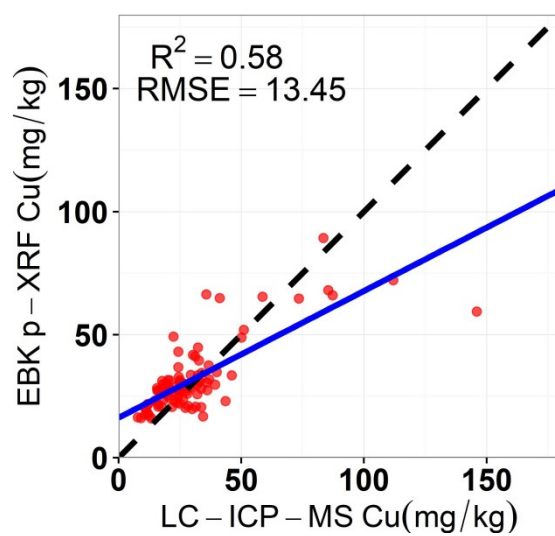
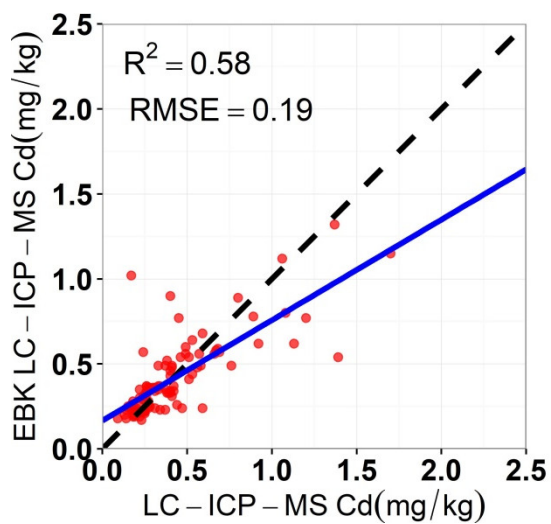
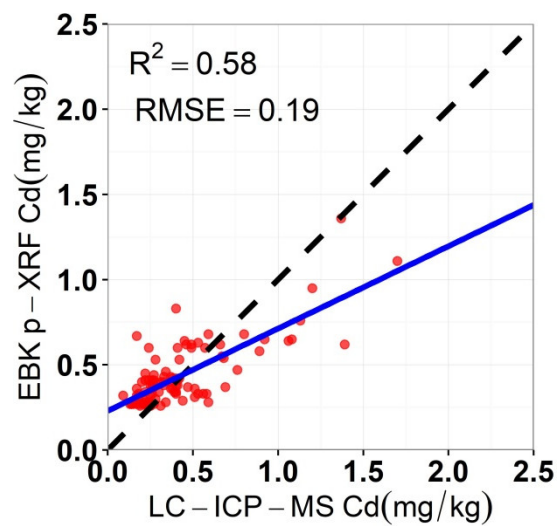
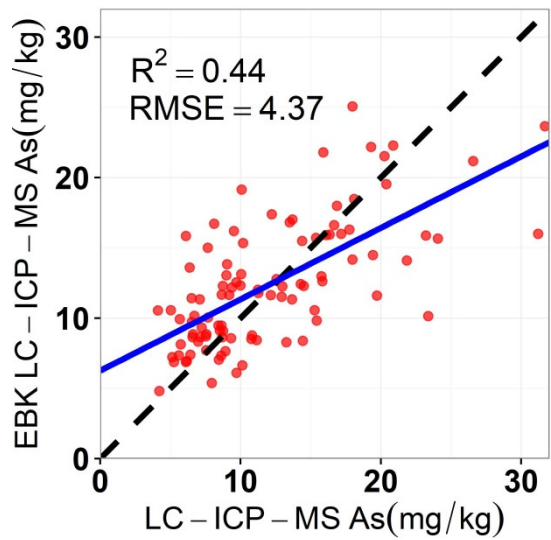
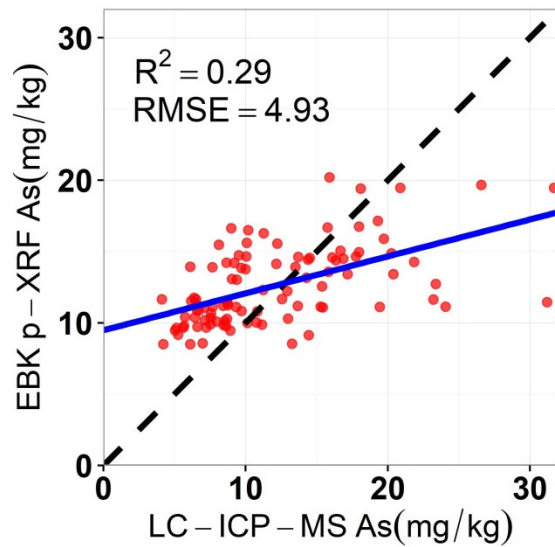


Figure S2. Scatter plot of spatial prediction values using OK Vs PTEs content measured by LC-ICP-MS method.



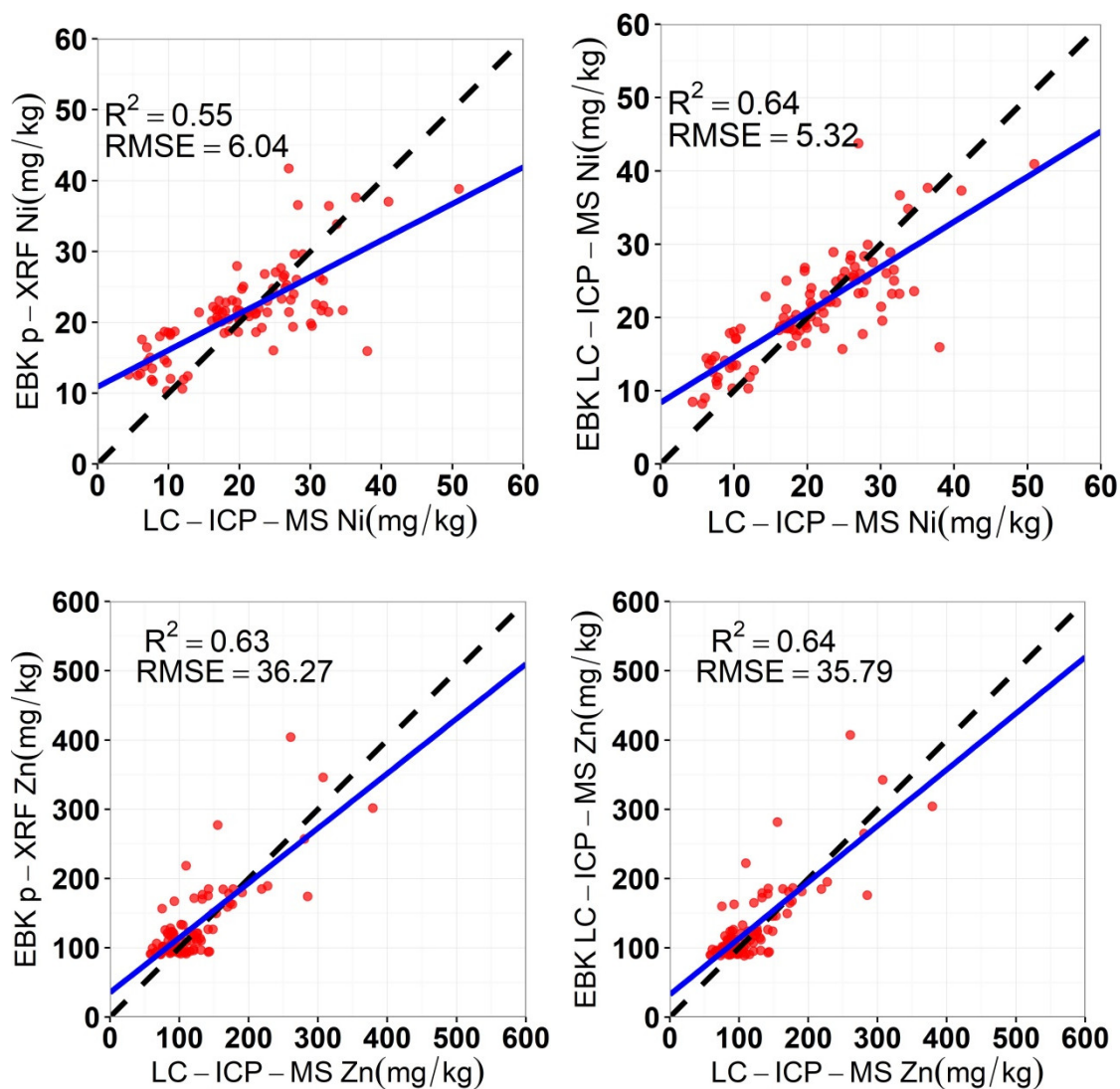
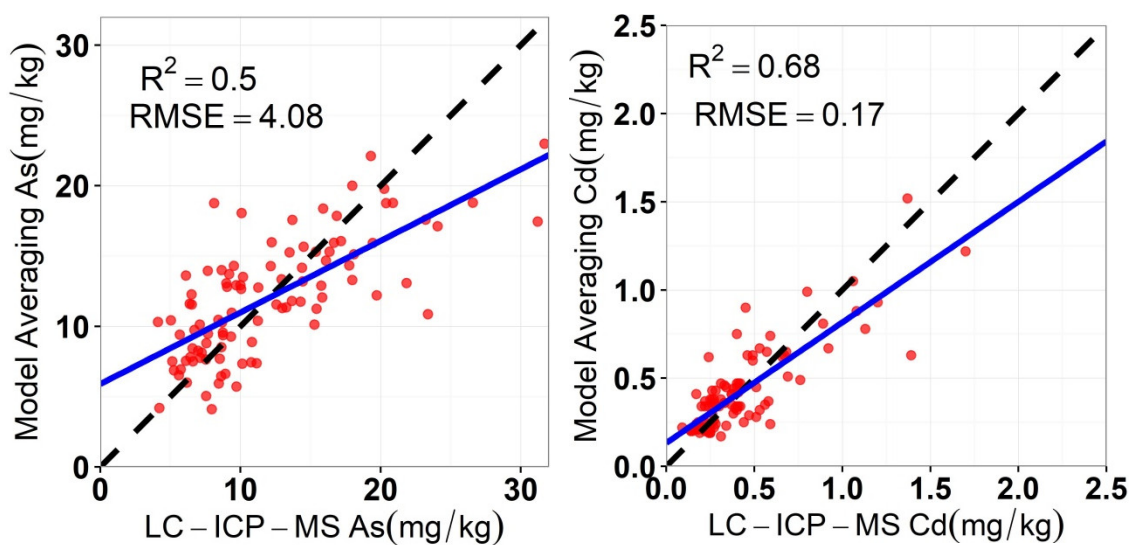


Figure S3. Scatter plot of spatial prediction values using EBK Vs PTEs content measured by LC-ICP-MS method.



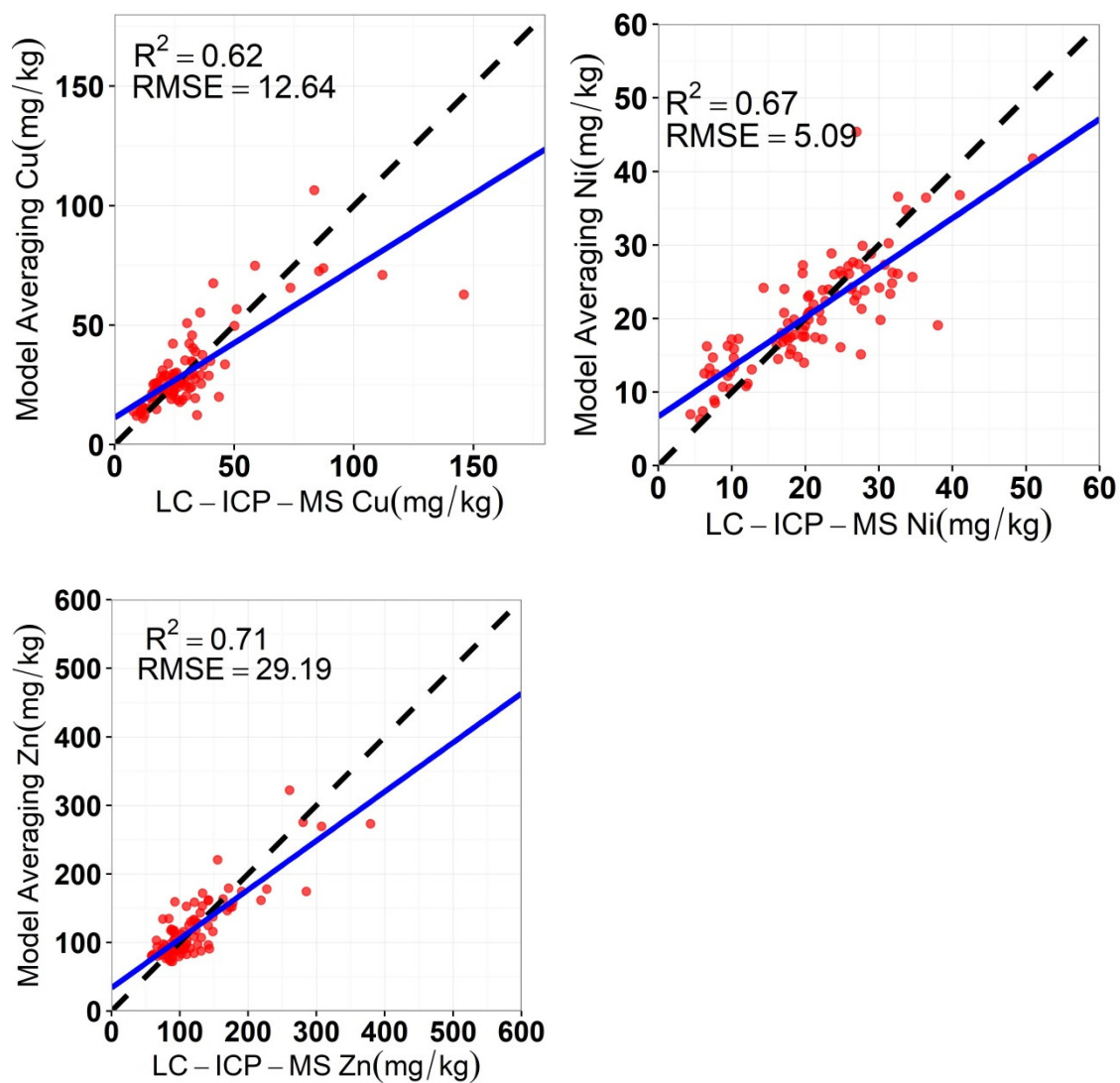


Figure S4. Scatter plot of spatial prediction values using model averaging Vs PTEs content measured by LC-ICP-MS method.