

Supplemental Material

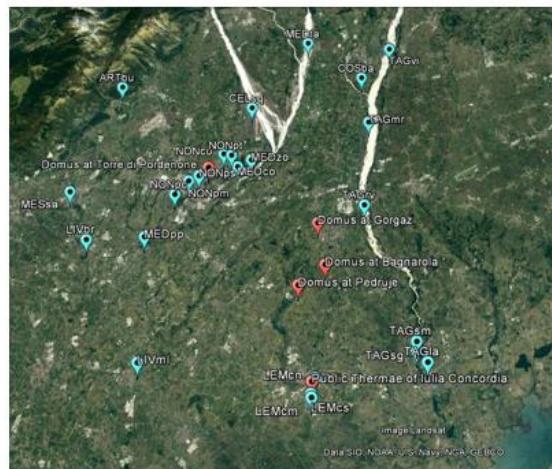
The geographical location of the Roman X Regio (Venetia et Histria)
in the North-East Italy and Histria



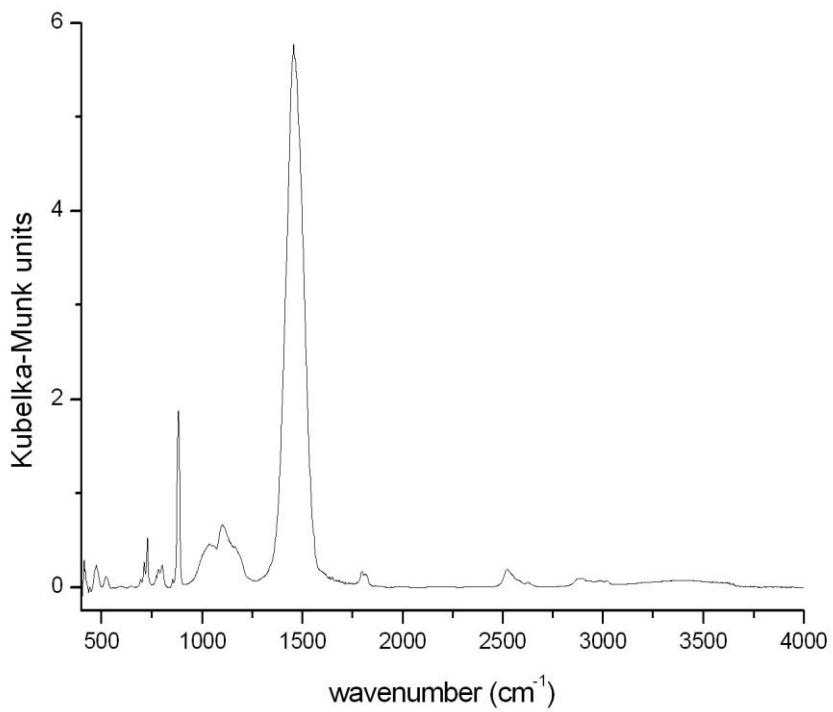
(https://commons.wikimedia.org/wiki/File:Shepherd_Map_of_Ancient_Italy,_Northern_Part.jpg#/media/File:Shepherd_Map_of_Ancient_Italy,_Northern_Part.jpg [accessed Mar 17 2018])



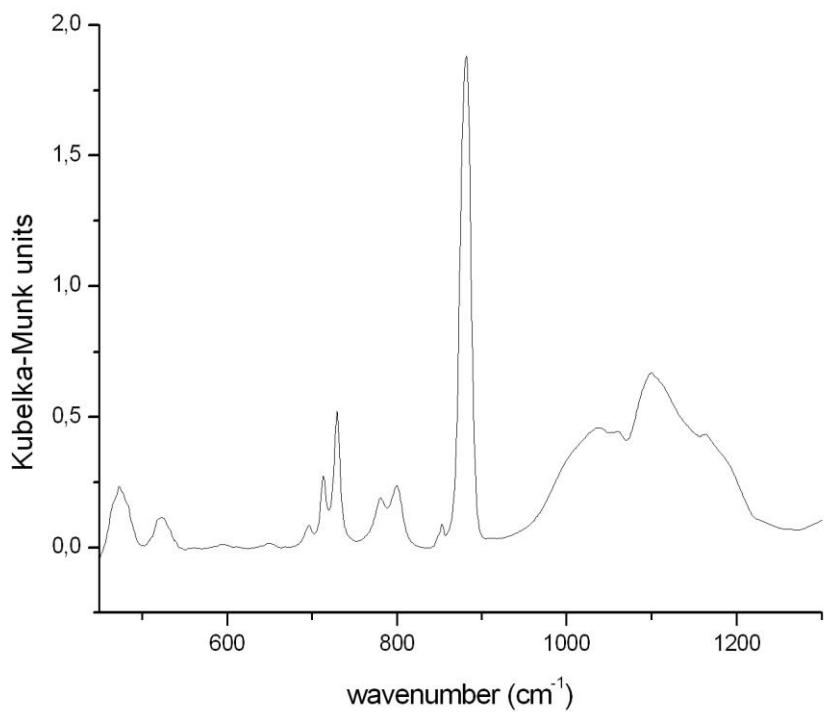
Location of the archaeological sites (red arrows) and of the collection points of the fluvial sands (blue arrows) analysed in the present work (map from Google maps)



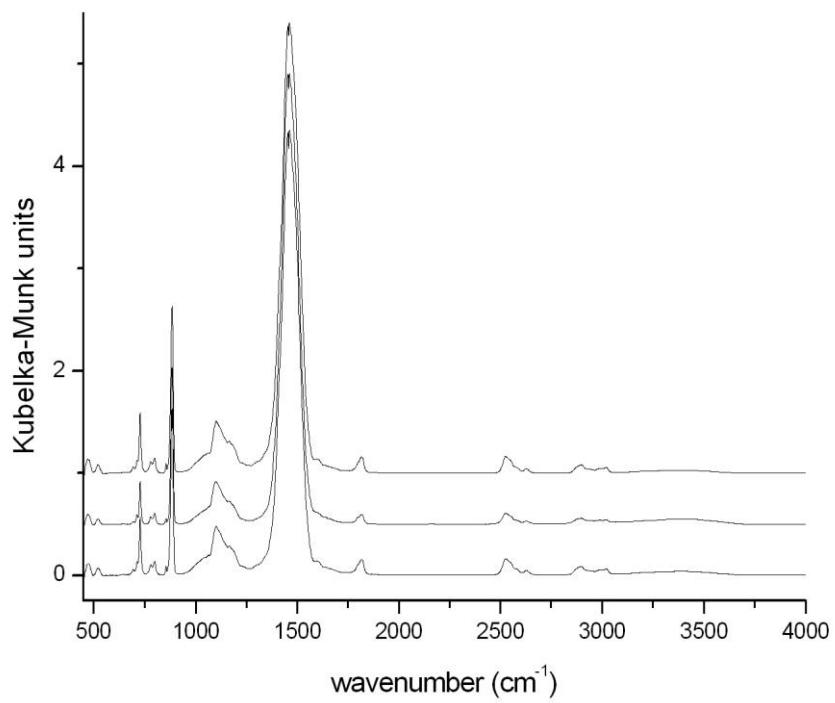
DRIFT spectrum of sample ICT11 in the 450-4000 cm^{-1} range



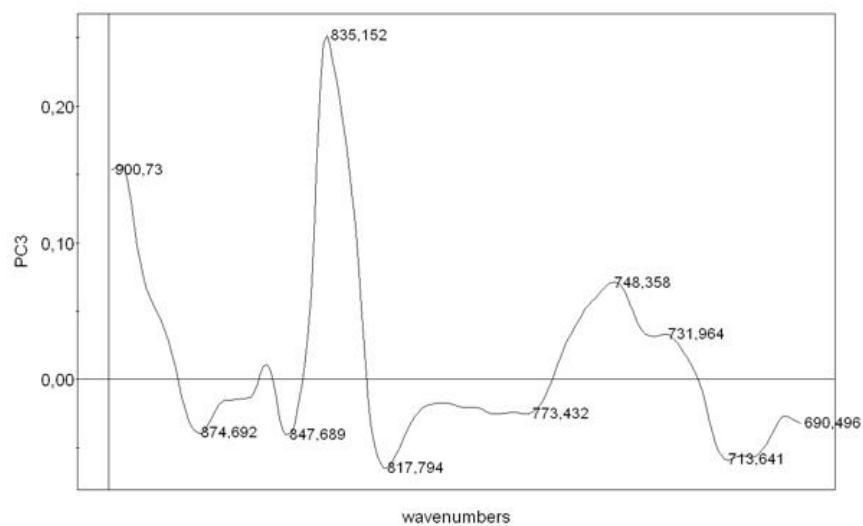
DRIFT spectrum of sample ICT11 in the 400-1300 cm^{-1} range



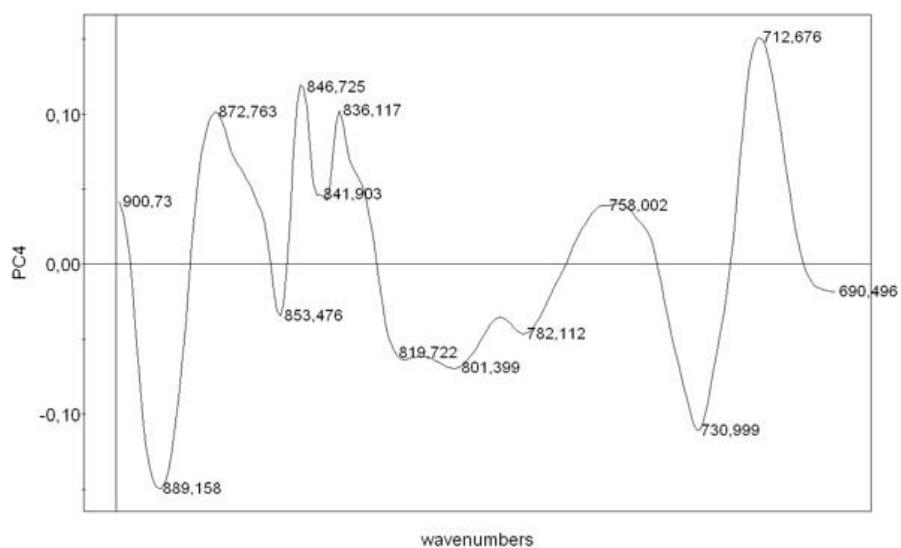
DRIFT spectra of the three independent samplings of sample NONco



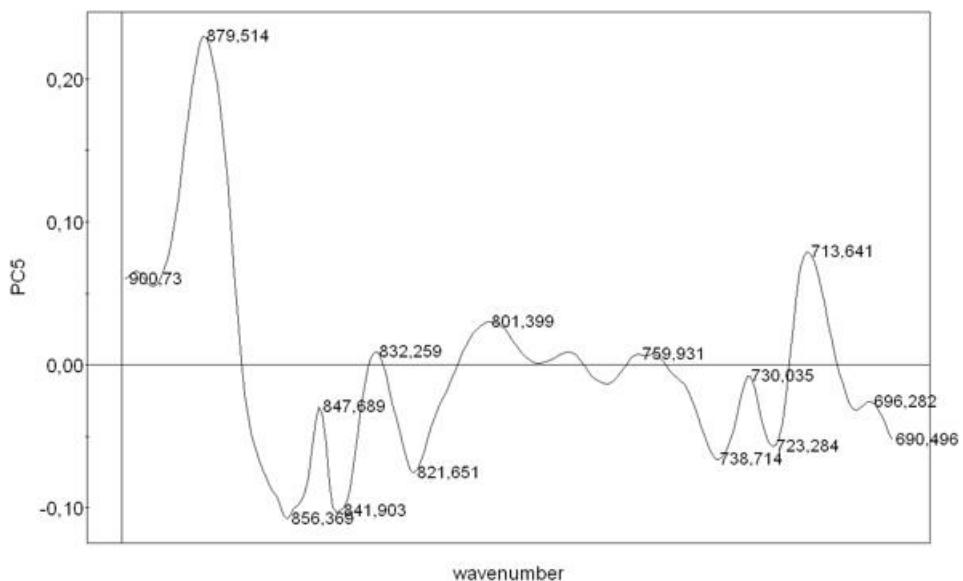
PC3 loading plot in the 690-900 cm⁻¹ spectral range



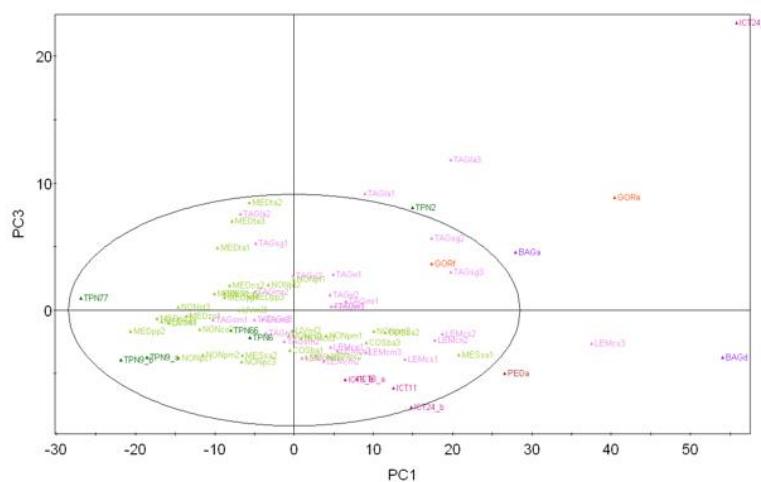
PC4 loading plot in the 690-900 cm⁻¹ spectral range



PC5 loading plot in the 690-900 cm⁻¹ spectral range

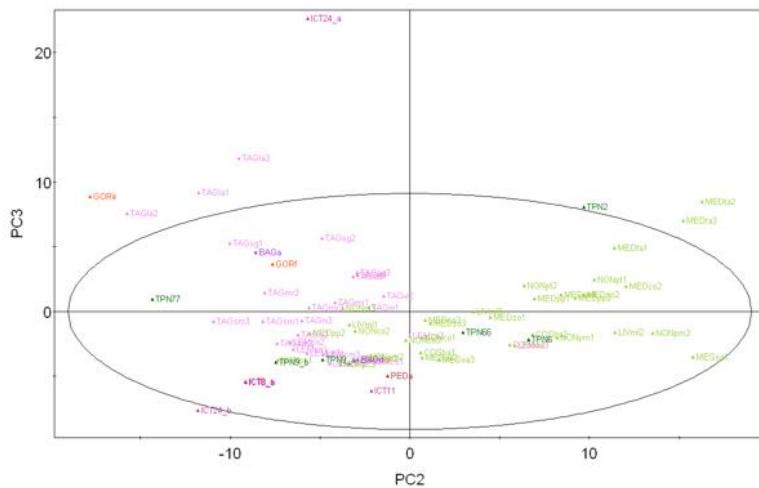


PC3 vs PC1 scores plot in the 690-900 cm⁻¹ spectral range



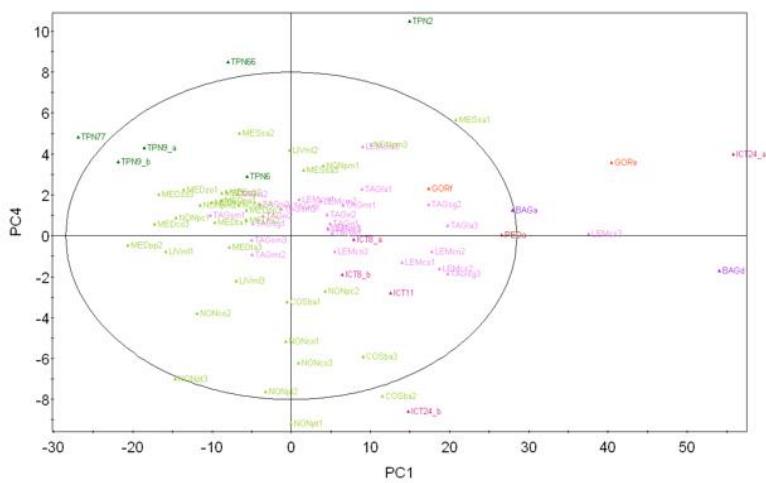
The provenances of the samples are indicated by different colour labels - light purple: eastern rivers (Tagliamento and Lemene) sand; light green: western rivers (Cosa, Livenza, Meduna, Meschio and Noncello) sand; different shades of purple: mortar aggregates from Bagnarola (violet), Gorgaz (orange), Iulia Concordia Thermae (magenta), and Pedruje (maroon); and dark green: mortar aggregates from Torre di Pordenone.

PC3 vs PC2 scores plot in the 690-900 cm⁻¹ spectral range



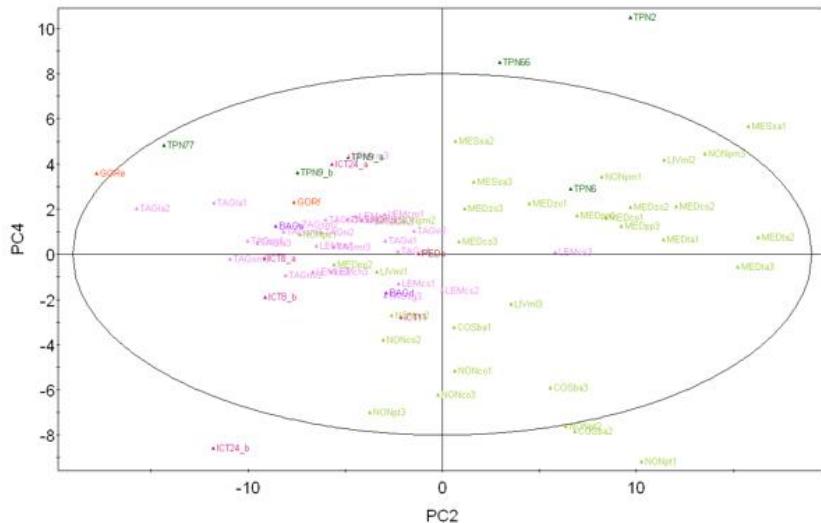
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PC4 vs PC1 scores plot in the 690-900 cm⁻¹ spectral range



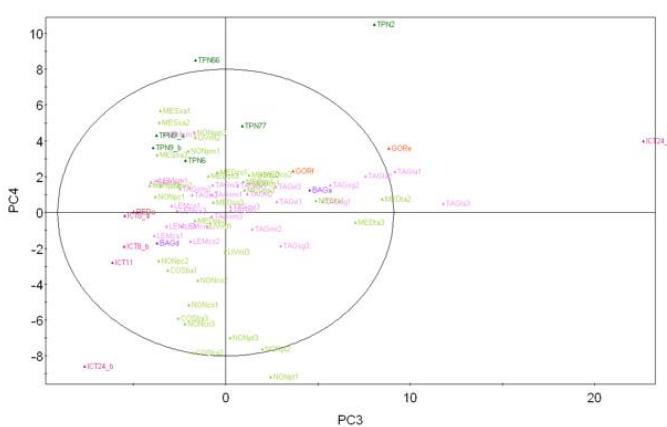
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PC4 vs PC2 scores plot in the 690-900 cm⁻¹ spectral range



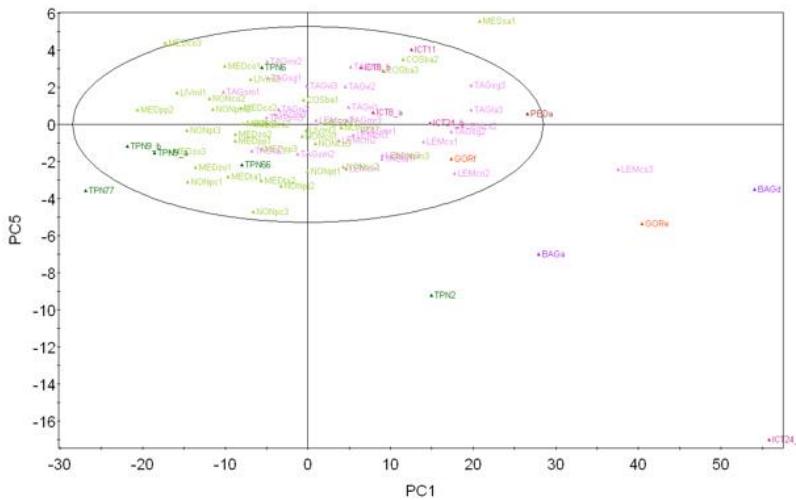
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PC4 vs PC3 scores plot in the 690-900 cm⁻¹ spectral range



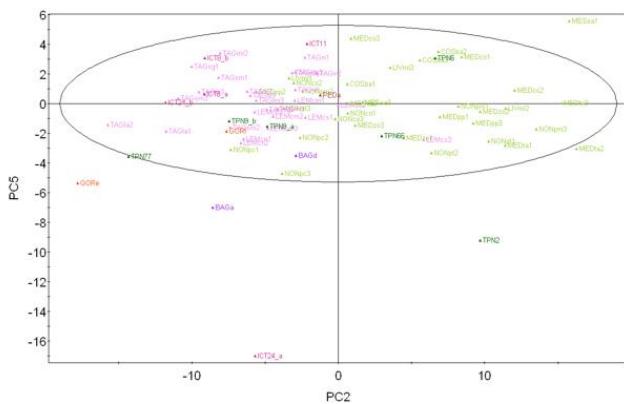
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PC5 vs PC1 scores plot in the 690-900 cm⁻¹ spectral range



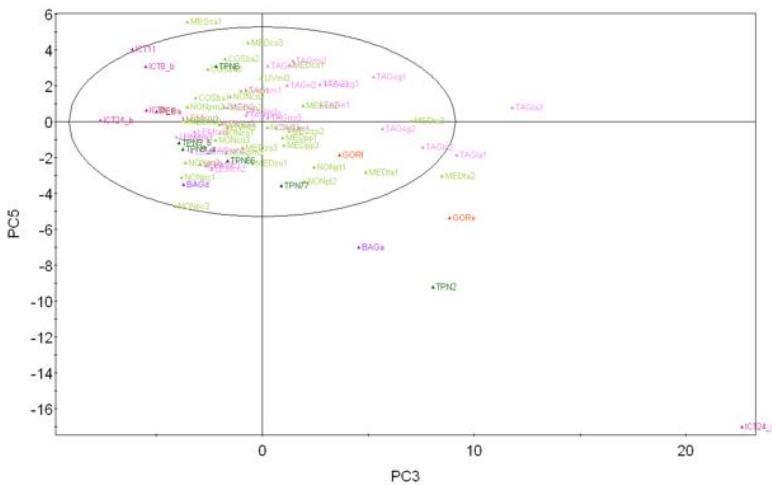
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PC5 vs PC2 scores plot in the 690-900 cm⁻¹ spectral range



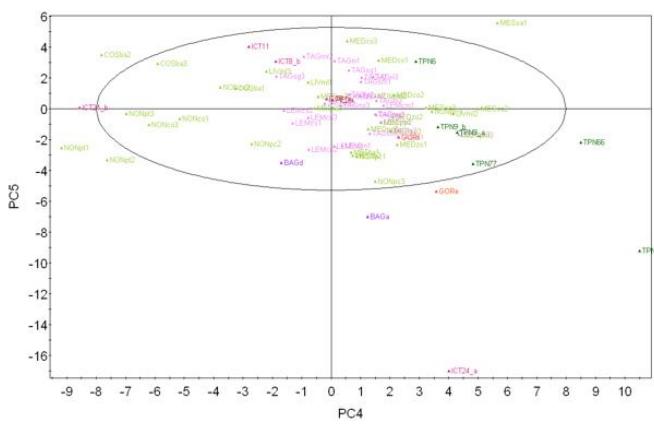
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PC5 vs PC3 scores plot in the 690-900 cm⁻¹ spectral range



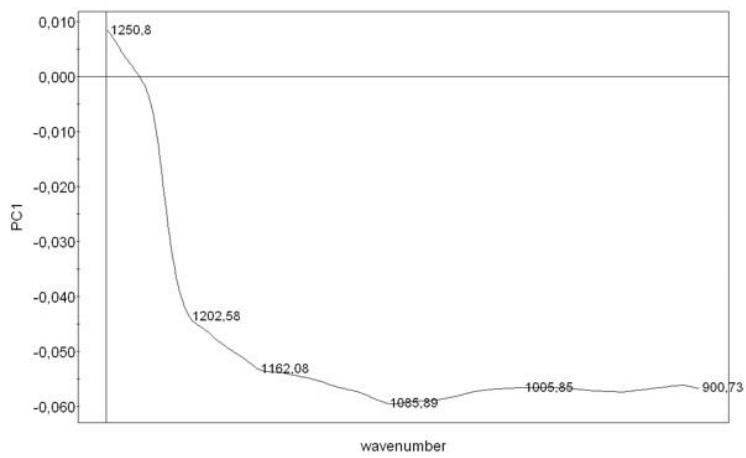
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PC5 vs PC4 scores plot in the 690-900 cm⁻¹ spectral range

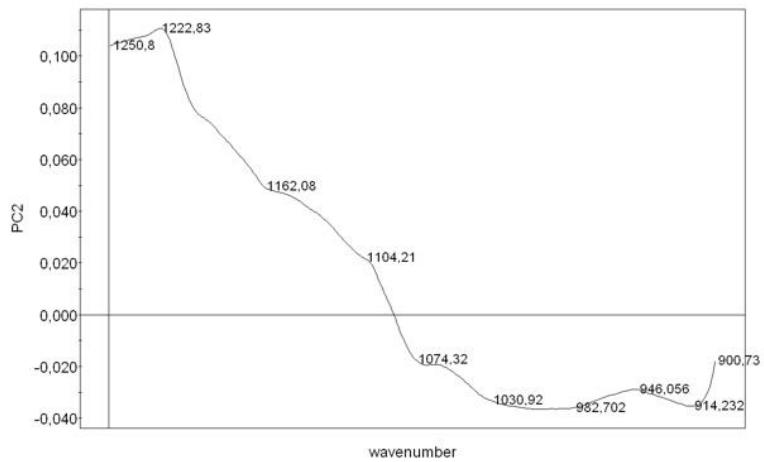


The provenances of the samples are indicated by different colour labels - light purple: eastern rivers (Tagliamento and Lemene) sand; light green: western rivers (Cosa, Livenza, Meduna, Meschio and Noncello) sand; different shades of purple: mortar aggregates from Bagnarola (violet), Gorgaz (orange), Iulia Concordia Thermae (magenta), and Pedruje (maroon); and dark green: mortar aggregates from Torre di Pordenone.

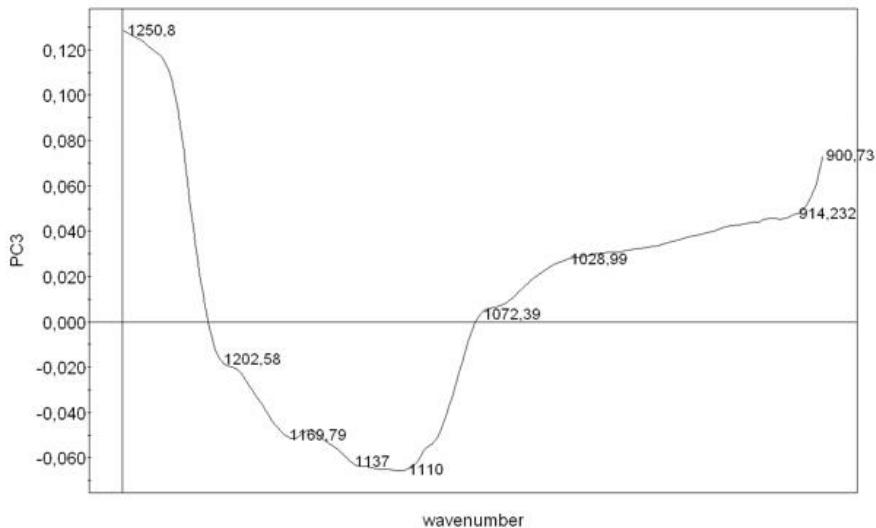
PC1 loading plot in the 900-1250 cm⁻¹ spectral range



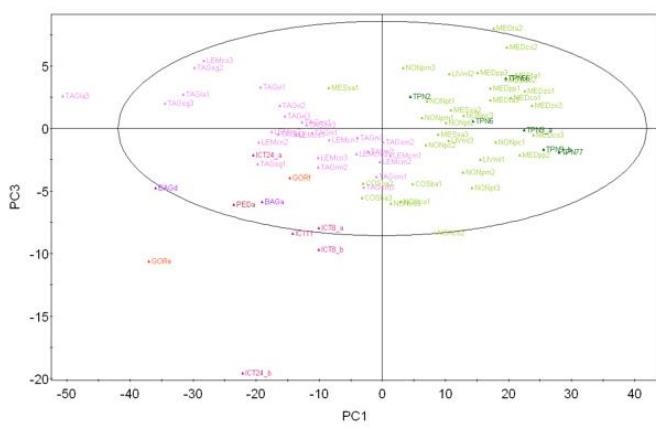
PC2 loading plot in the 900-1250 cm⁻¹ spectral range



PC3 loading plot in the 900-1250 cm⁻¹ spectral range

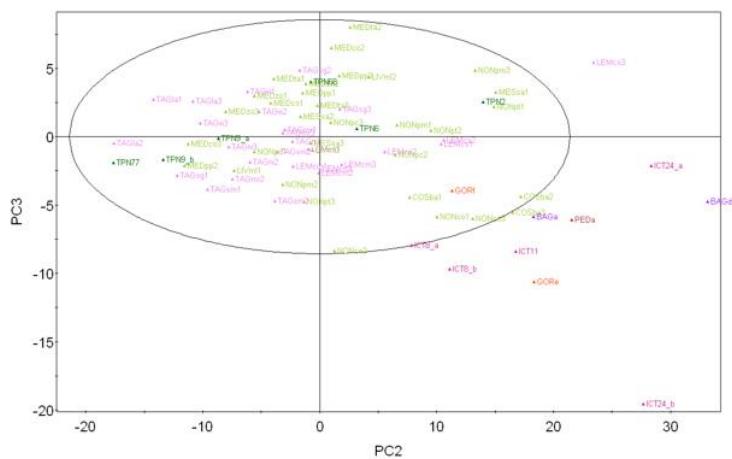


PC3 vs PC1 scores plot in the 900-1250 cm⁻¹ spectral range

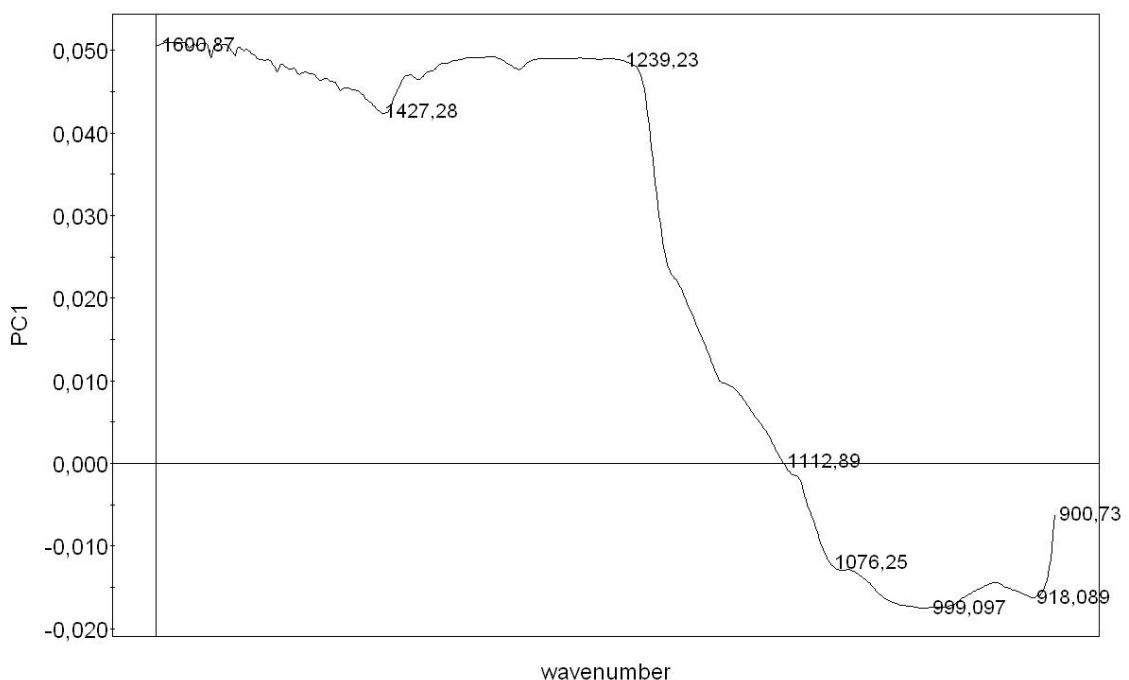


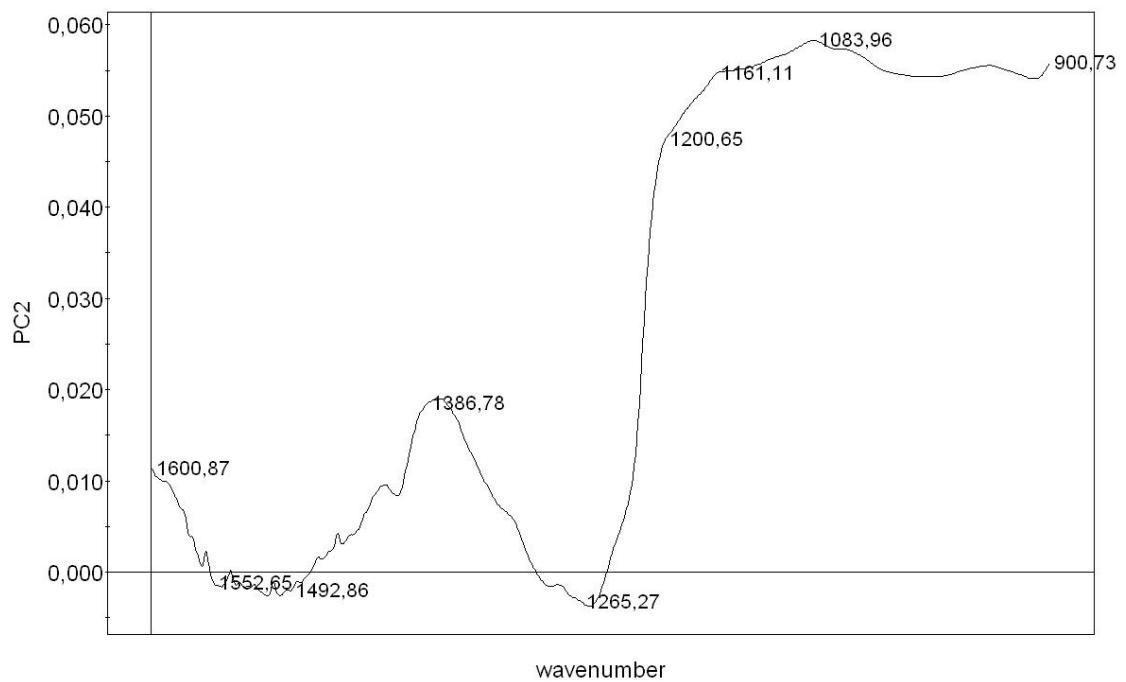
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PC3 vs PC2 scores plot in the 900-1250 cm⁻¹ spectral range

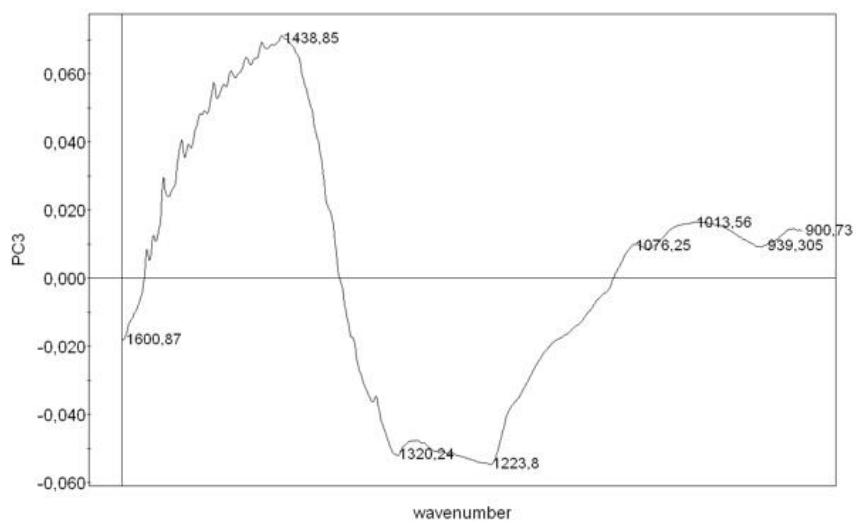


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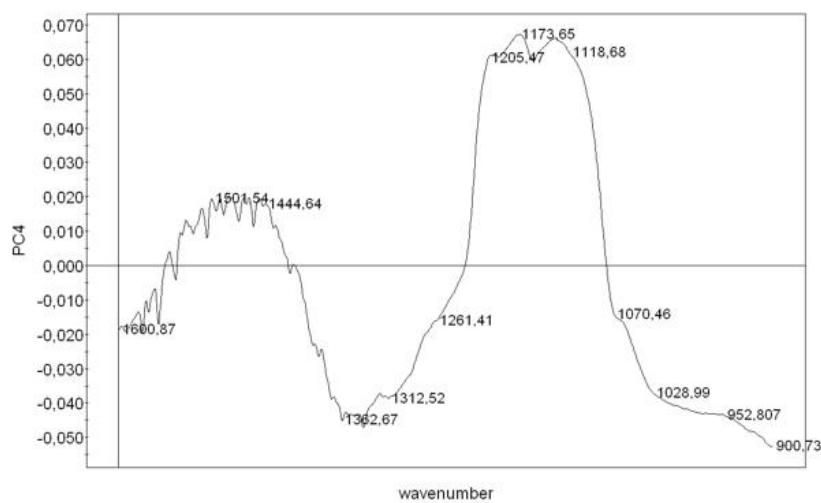




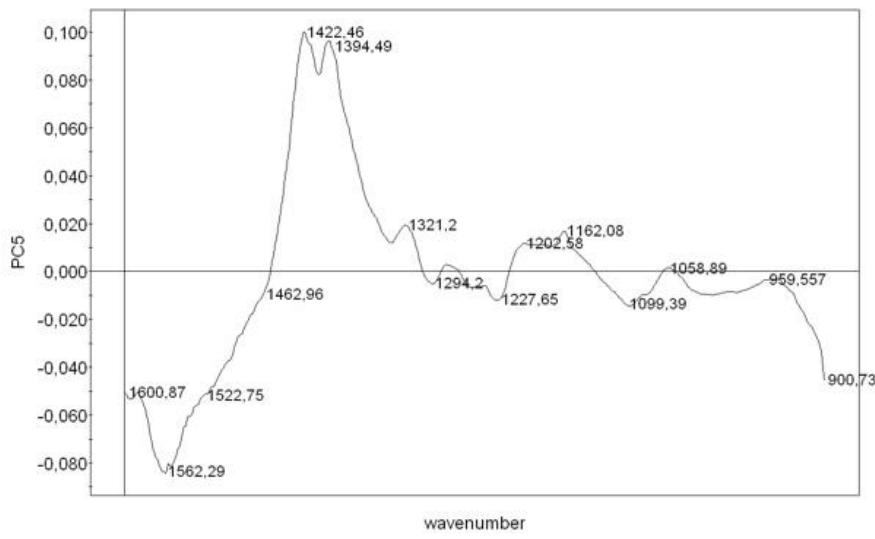
PC3 loading plot in the 900-1600 cm^{-1} spectral range



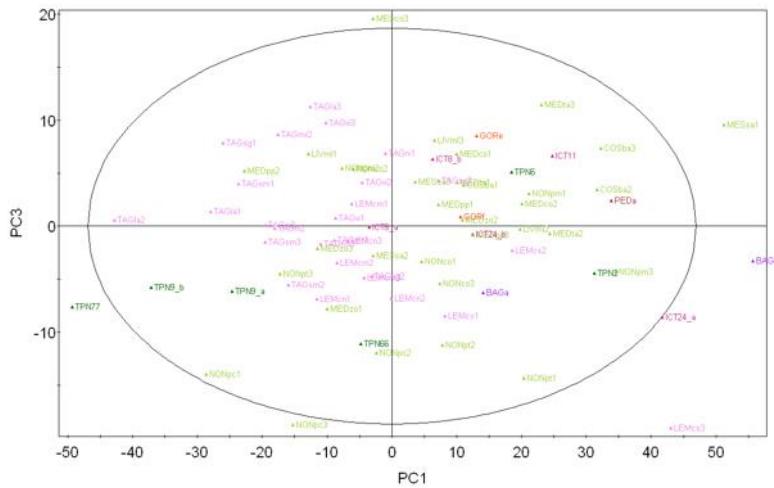
PC4 loading plot in the 900-1600 cm⁻¹ spectral range



PC5 loading plot in the 900-1600 cm⁻¹ spectral range

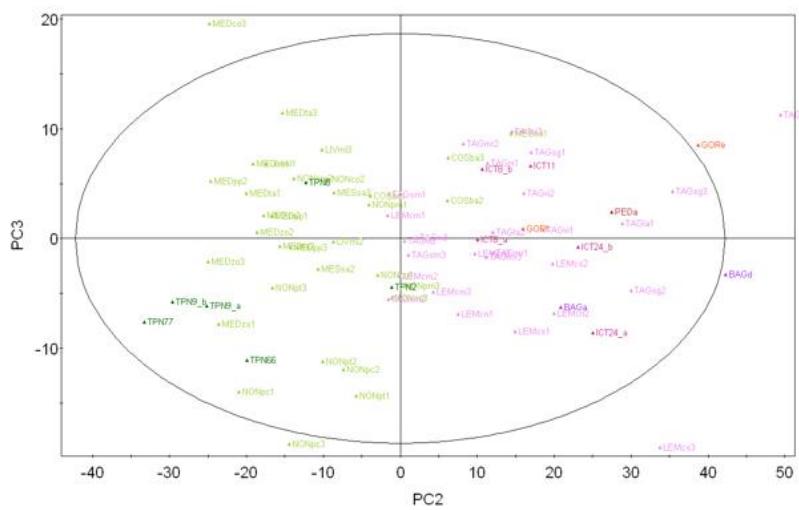


PC3 vs PC1 scores plot in the 900-1600 cm⁻¹ spectral range



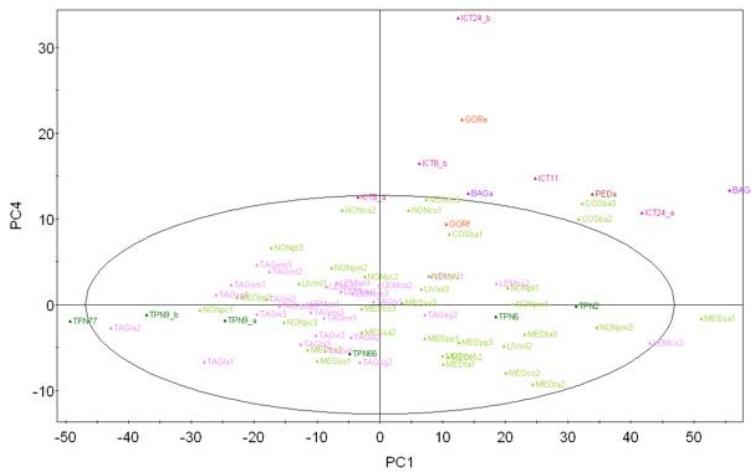
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PC3 vs PC2 scores plot in the 900-1600 cm⁻¹ spectral range



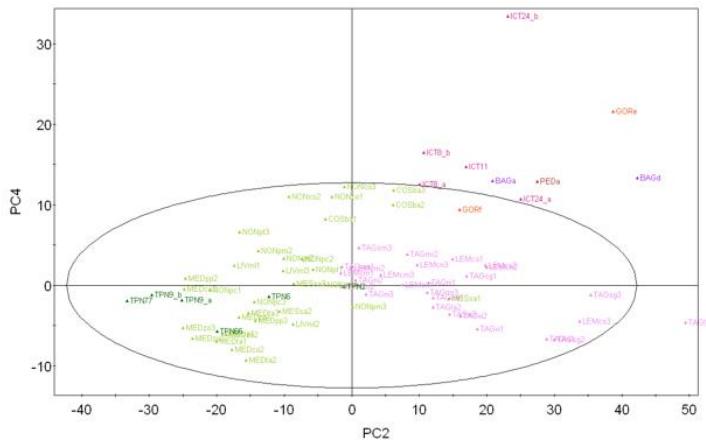
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PC4 vs PC1 scores plot in the 900-1600 cm⁻¹ spectral range



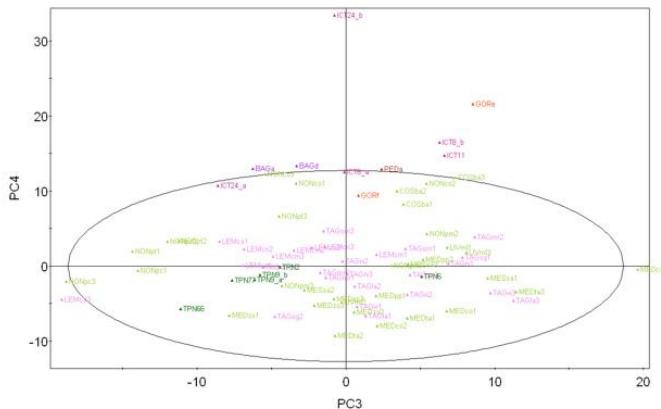
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PC4 vs PC2 scores plot in the 900-1600 cm⁻¹ spectral range



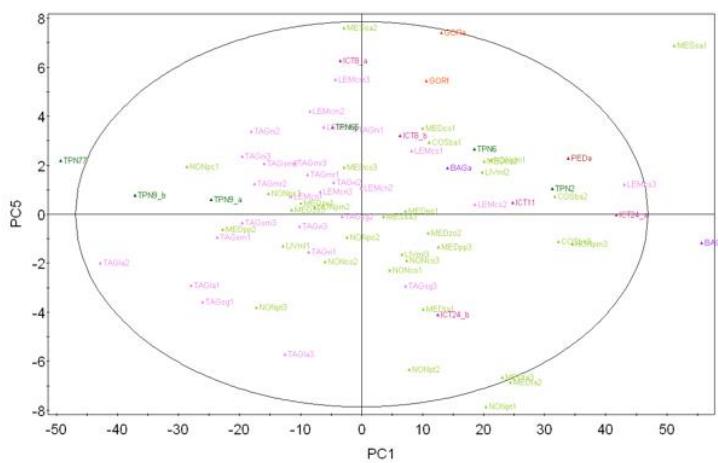
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PC4 vs PC3 scores plot in the 900-1600 cm⁻¹ spectral range



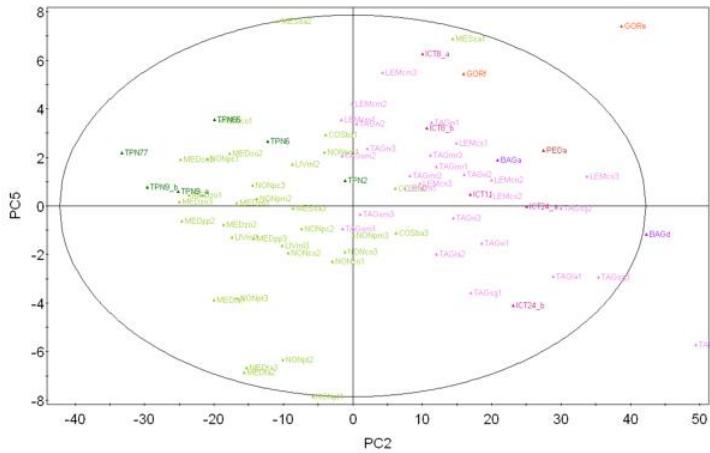
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PC5 vs PC1 scores plot in the 900-1600 cm⁻¹ spectral range



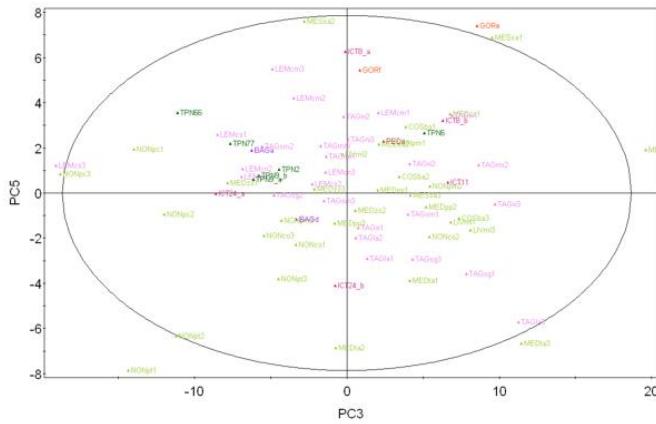
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PC5 vs PC2 scores plot in the 900-1600 cm⁻¹ spectral range



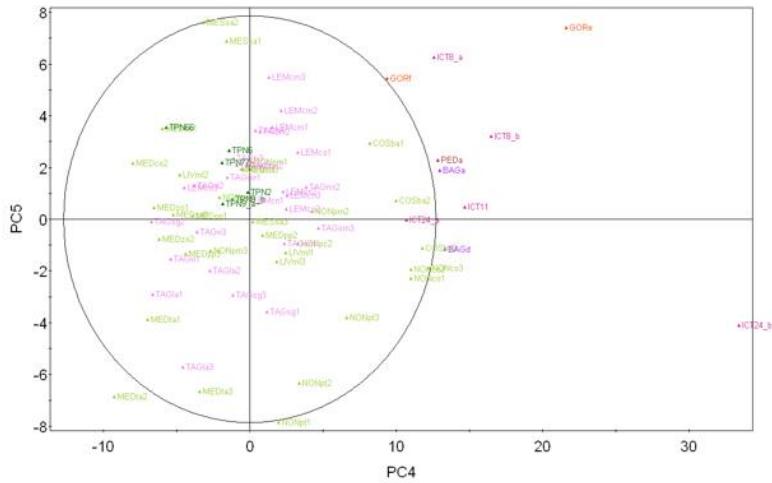
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PC5 vs PC3 scores plot in the 900-1600 cm⁻¹ spectral range



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