

Supporting Information

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Dendrimer Enhanced Ultrafiltration. 1. Recovery of Cu(II) from Aqueous Solutions Using PAMAM Dendrimers with Ethylene Diamine Core and Terminal NH₂ Groups

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Figure S11a: AFM image and section analysis of a clean 10 kDa regenerated cellulose ultrafiltration membrane.

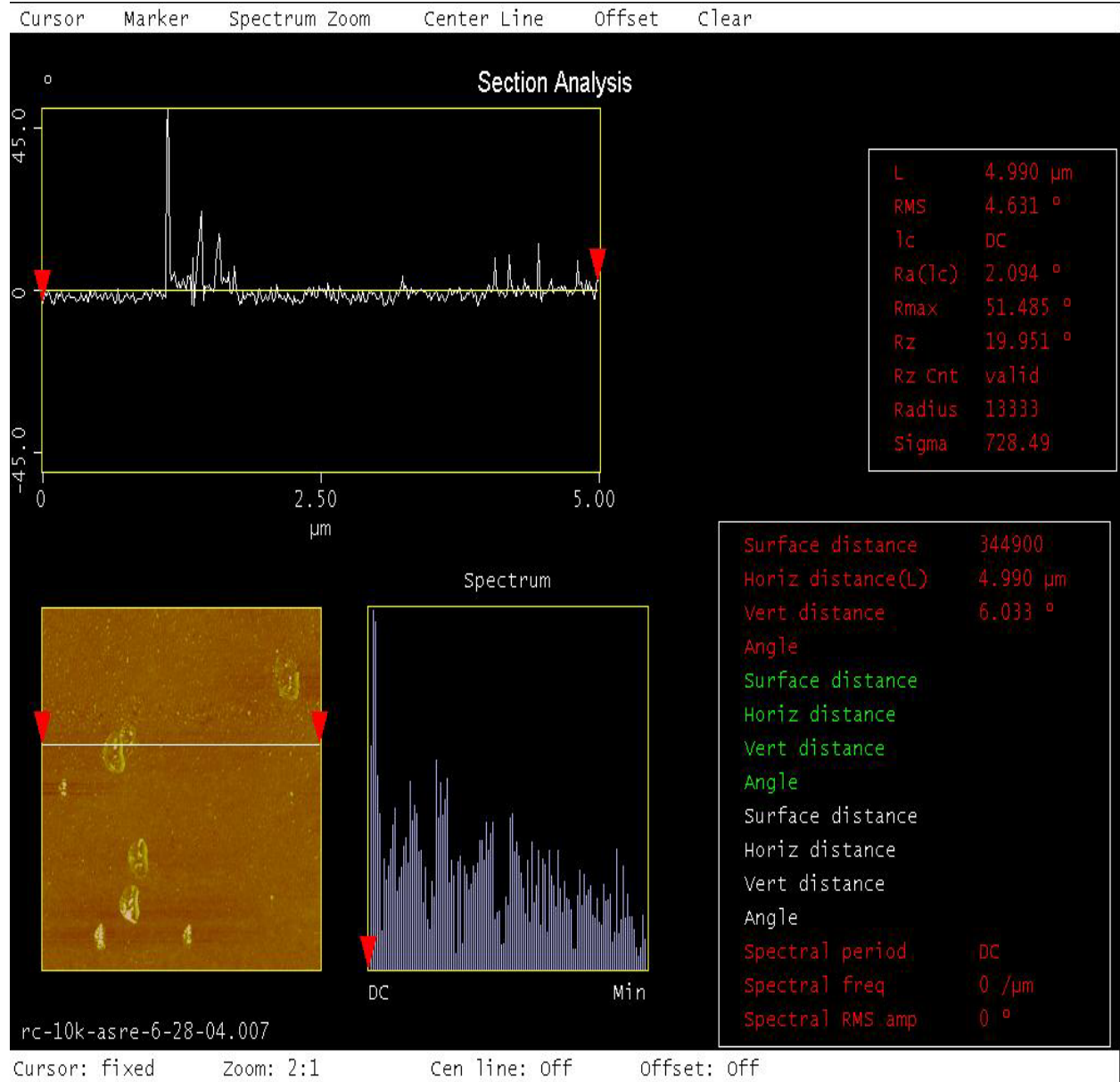


Figure S11b: AFM image and section analysis of a clean 10 kDa regenerated cellulose ultrafiltration membrane.

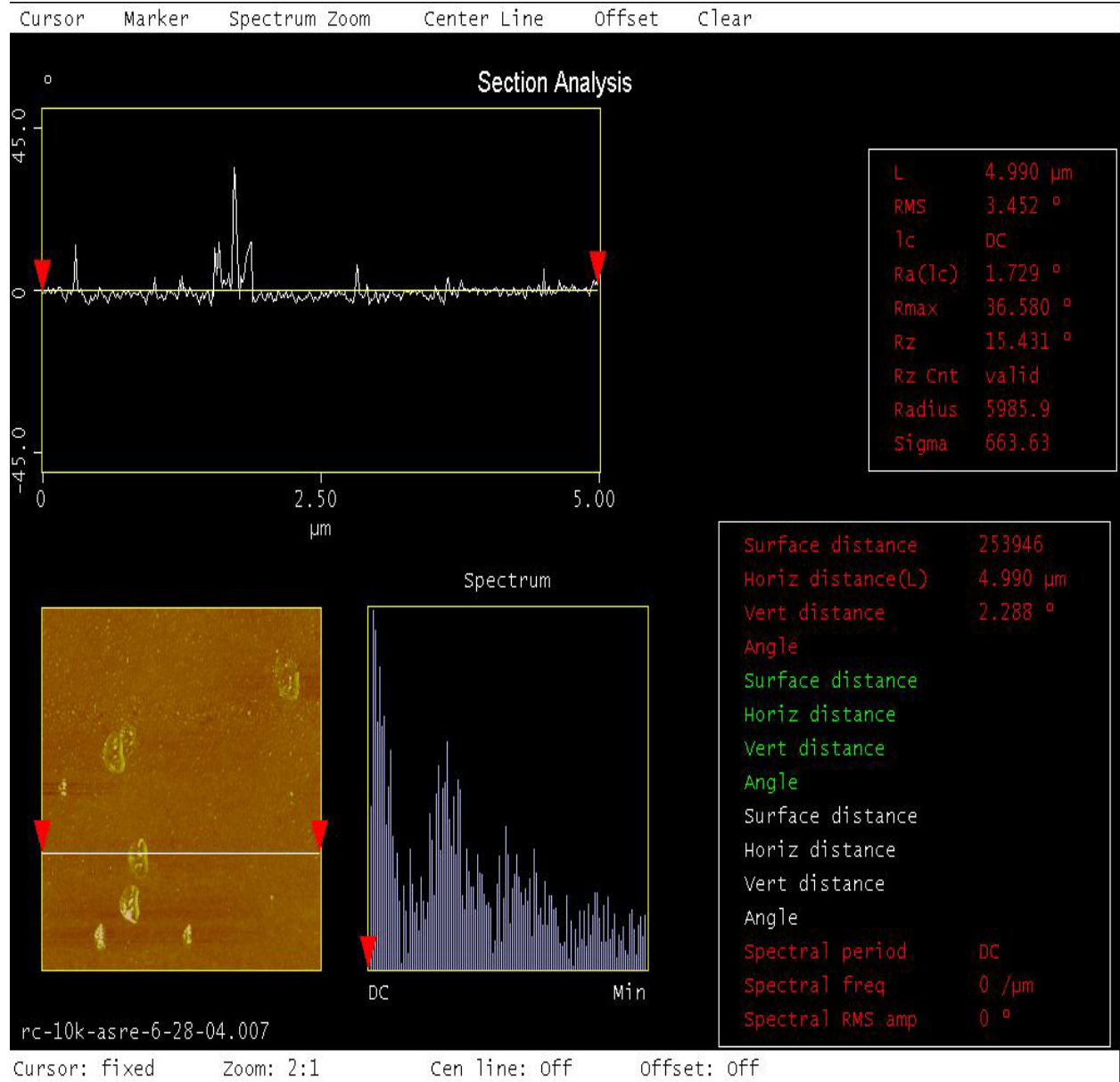


Figure SI2a: AFM image and section analysis of a 10 kDa regenerated cellulose ultrafiltration membrane that was exposed to a 1.2295×10^{-5} mole/L aqueous solution of G4-NH₂ PAMAM dendrimer at pH 7.0 for 4.5 hours as described in the section “Experimental Procedures”.

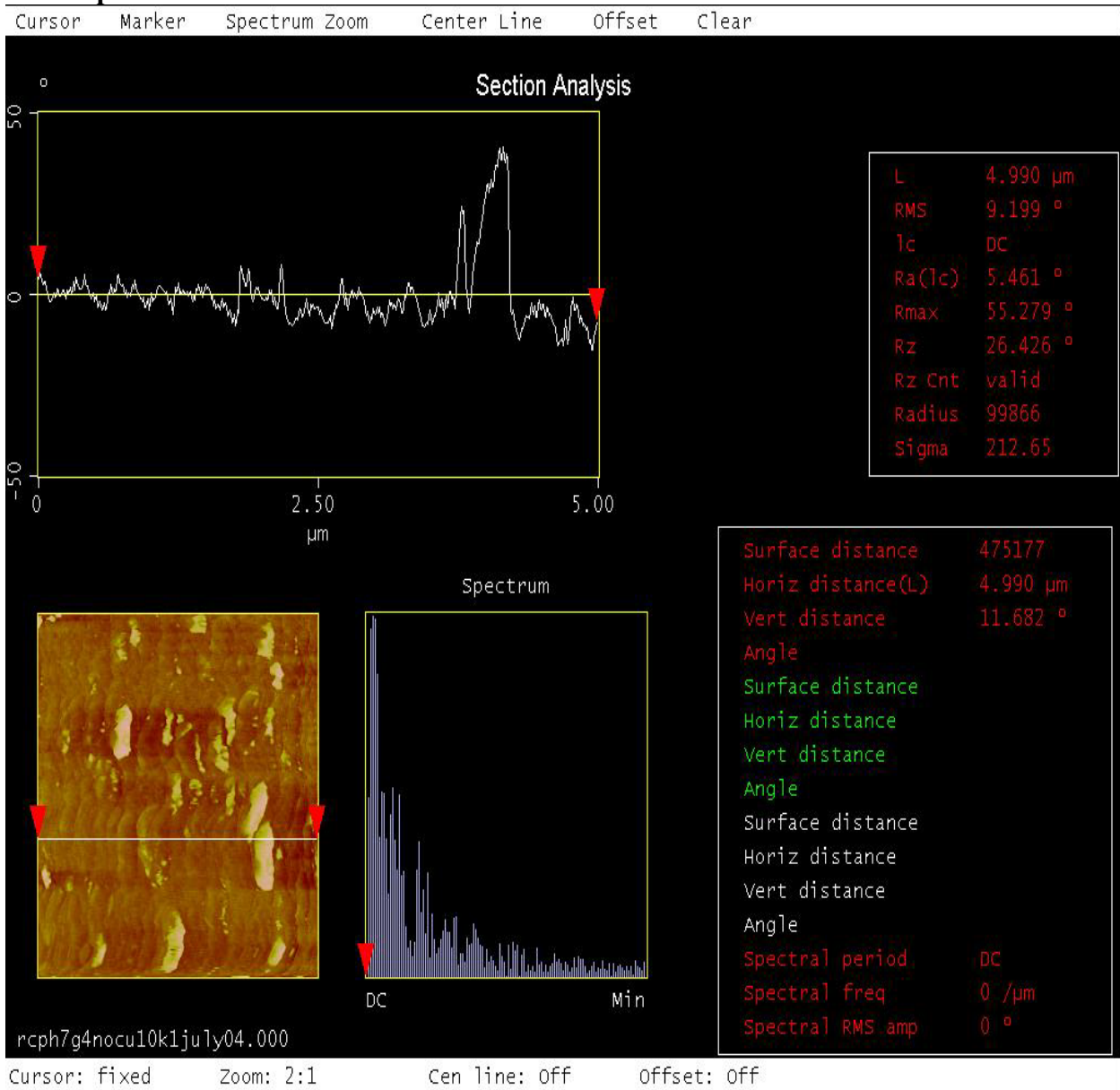


Figure SI2b: AFM image and section analysis of a 10 kDa regenerated cellulose ultrafiltration membrane that was exposed to a 1.2295×10^{-5} mole/L aqueous solution of G4-NH₂ PAMAM dendrimer at pH 7.0 for 4.5 hours as described in the section “Experimental Procedures”.

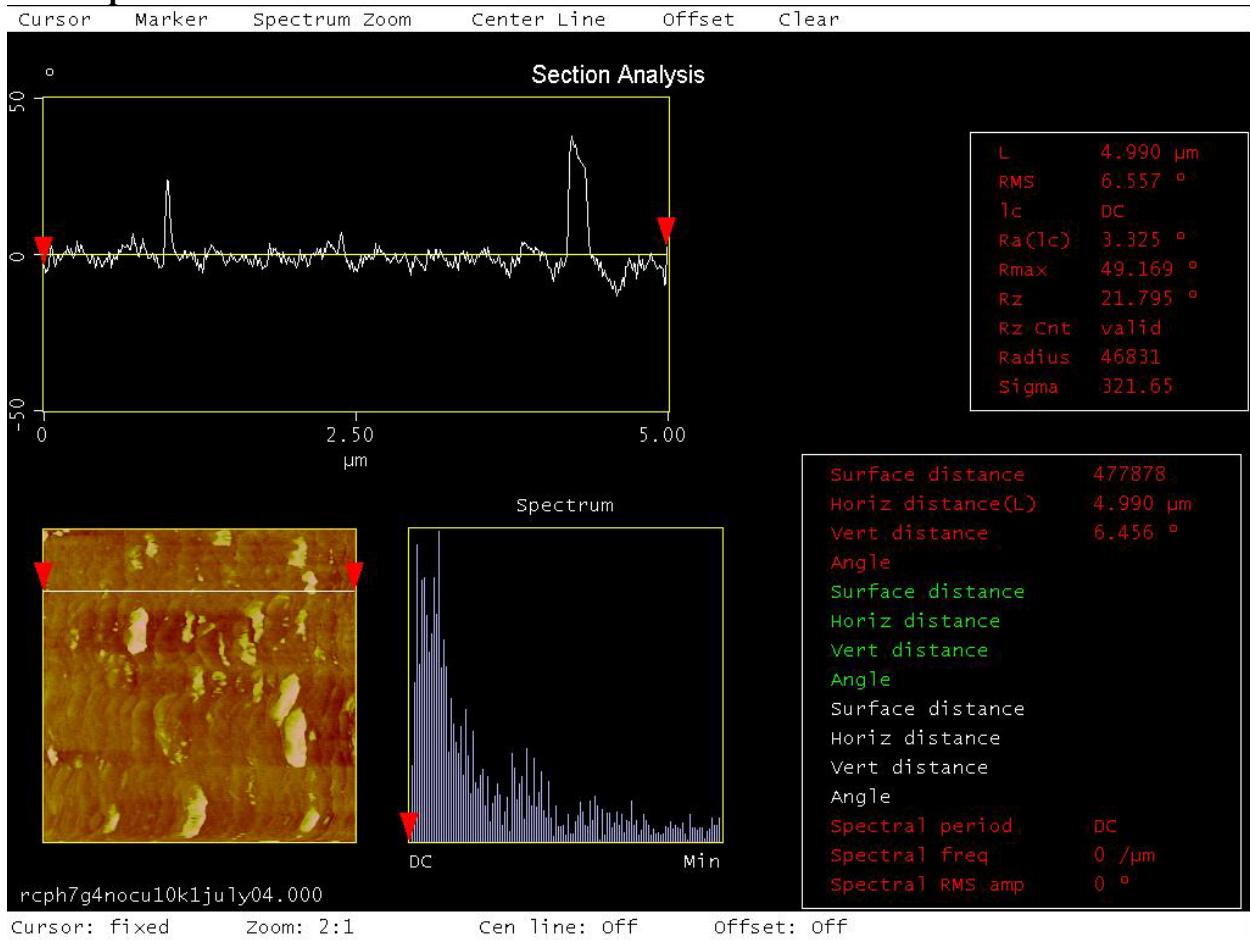


Figure SI3a: AFM image and section analysis of a clean 10 kDa polyethersulfone ultrafiltration membrane.

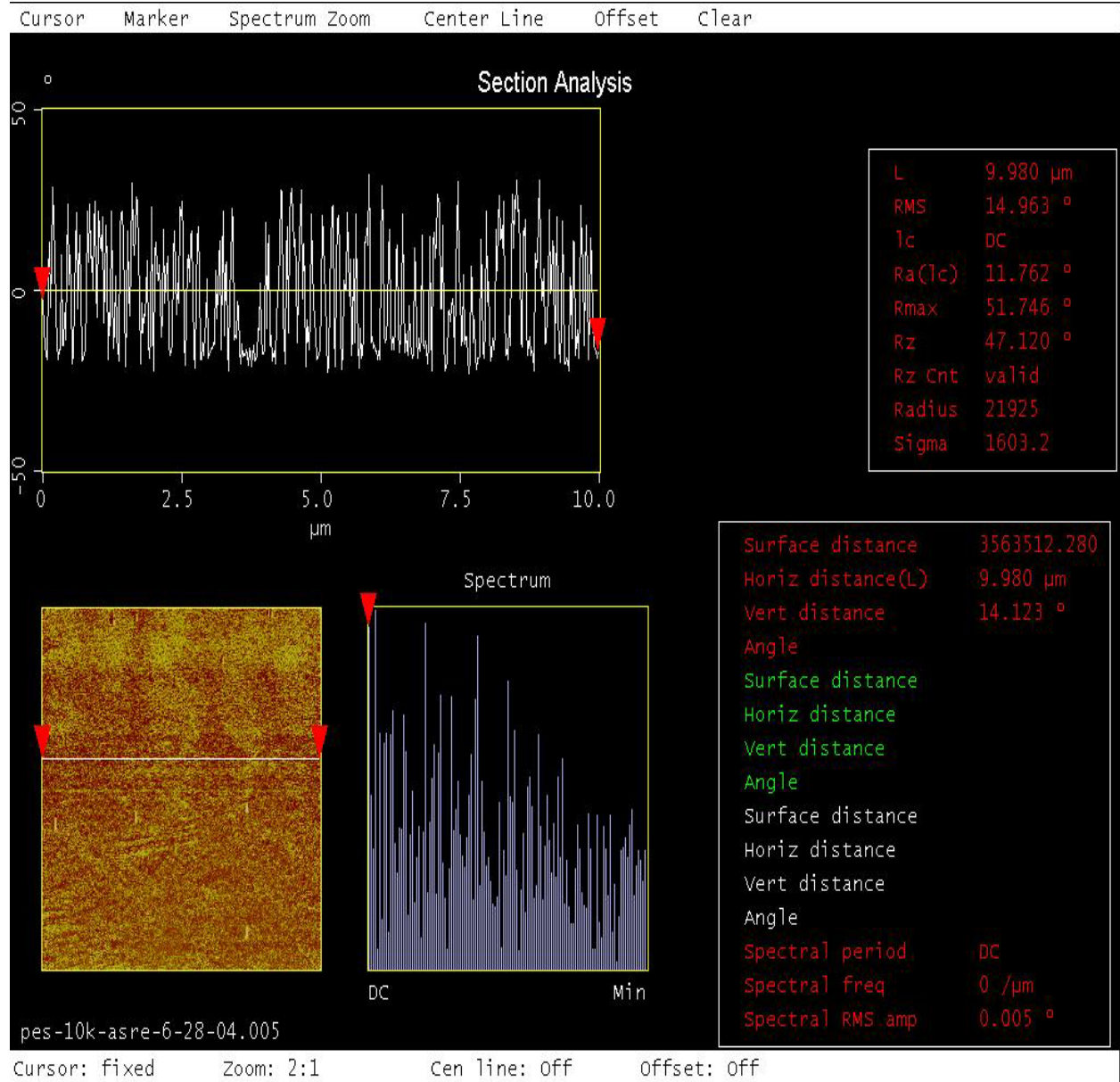


Figure SI3b: AFM image and section analysis of a clean 10 kDa polyethersulfone ultrafiltration membrane.

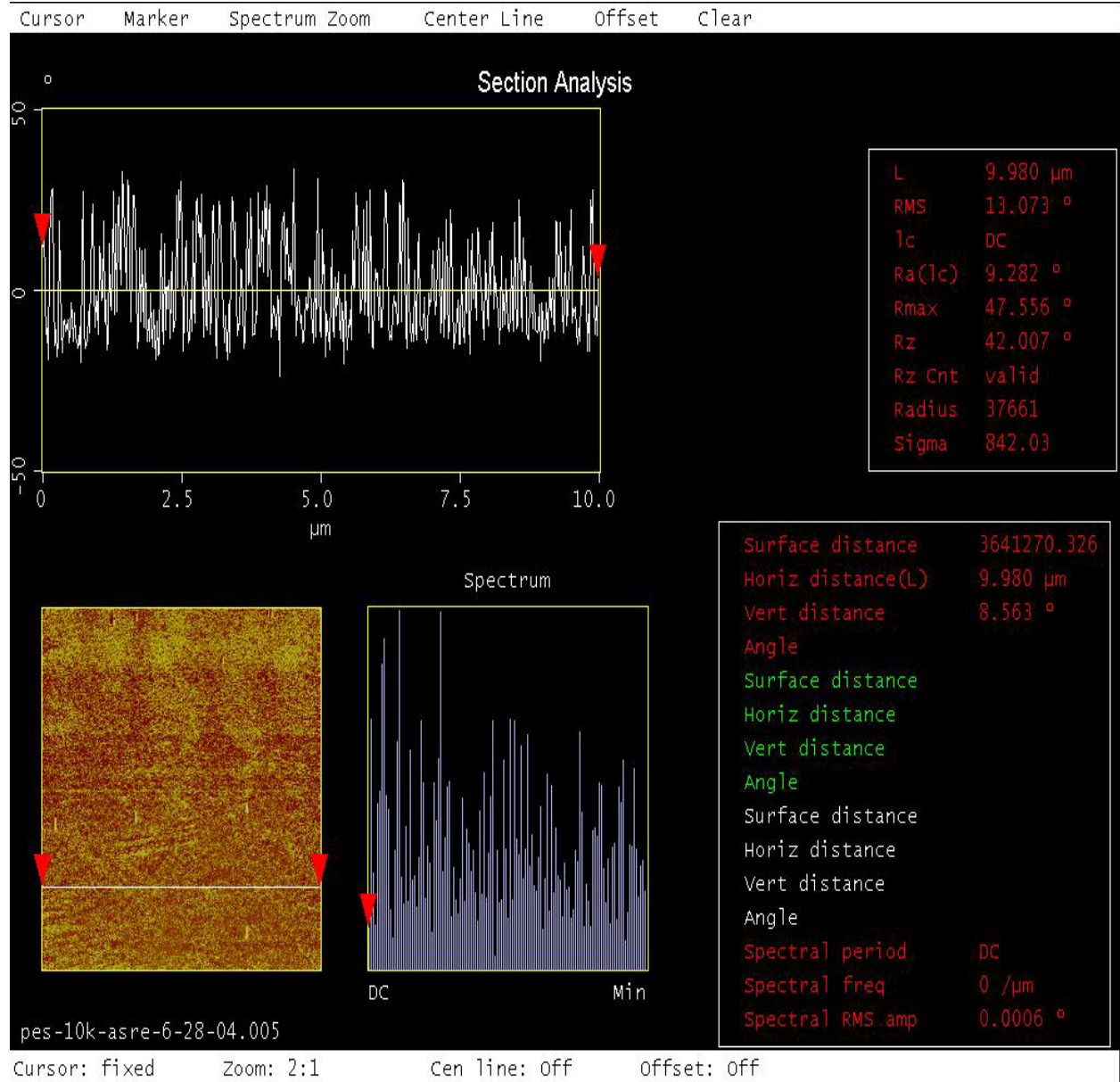


Figure SI4a: AFM image and section analysis of a 10 kDa polyethersulfone ultrafiltration membrane that was exposed to a 1.2295×10^{-5} mole/L aqueous solution of G4-NH₂ PAMAM dendrimer at pH 7.0 for 4.5 hours as described in the section “Experimental Procedures”.

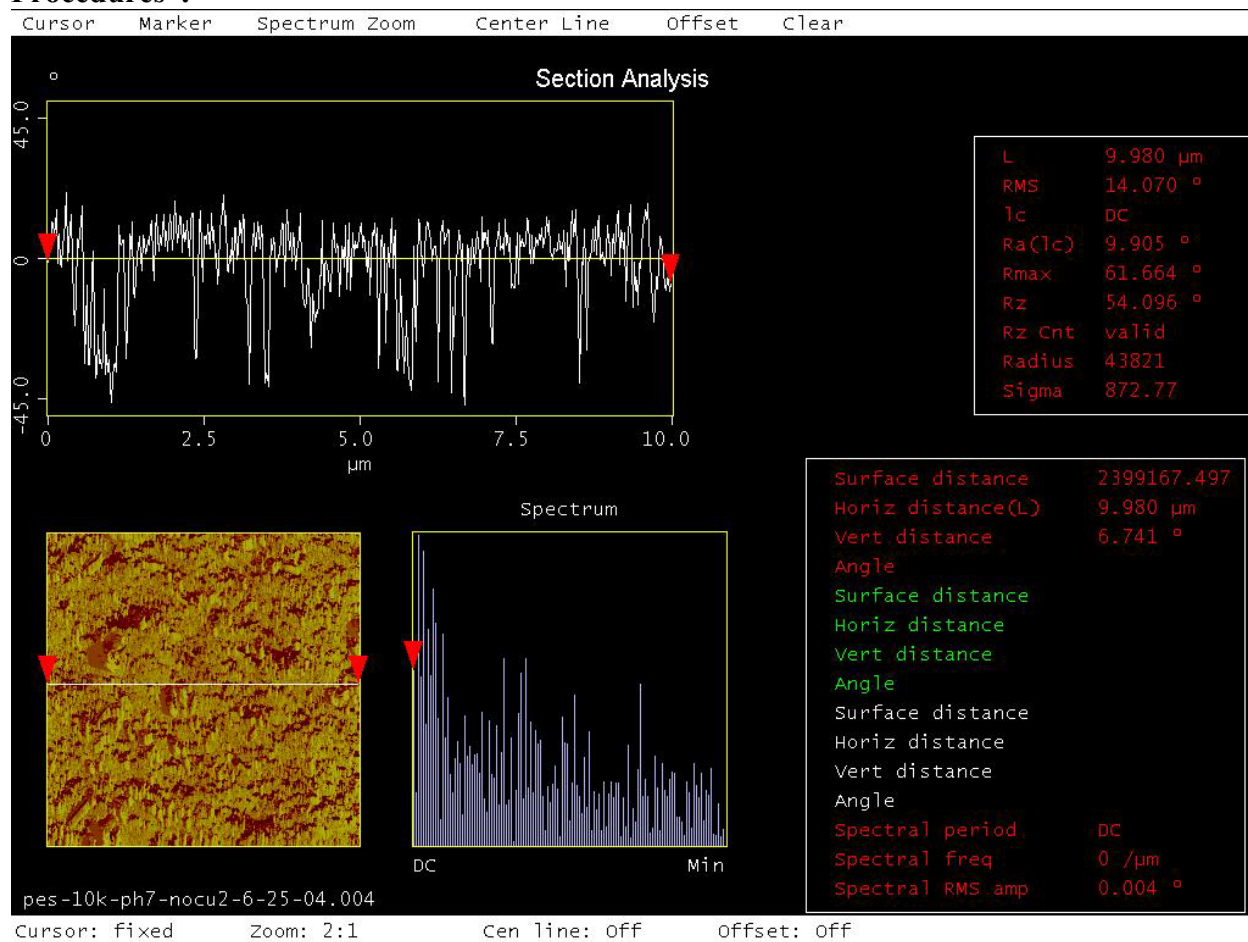


Figure SI4b: AFM image and section analysis of a 10 kDa polyethersulfone ultrafiltration membrane that was exposed to a 1.2295×10^{-5} mole/L aqueous solution of G4-NH₂ PAMAM dendrimer at pH 7.0 for 4.5 hours as described in the section “Experimental Procedures”.

