

Spheres – Calibration Data for Unit 1108_C

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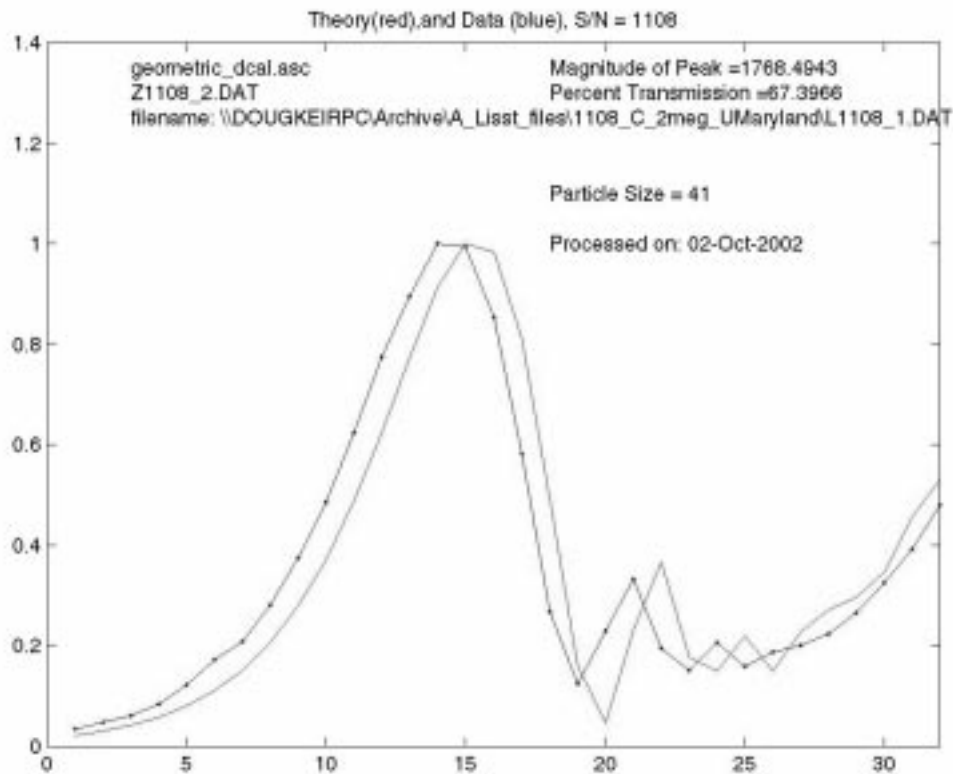
Issue Examined (*data vs Mie theory*): The standard calibration data taken with each unit using spherical particles is reviewed for Hans Roberti and group. Three different sizes are examined 41 microns, 82 microns, and 165 microns.

Findings : Agreement with Mie theory is excellent. The one-bin shift for the 41 microns is known to be due to the mislabeling of particle size by the supplier.

Method : Standard procedure involves inserting known concentrations of spheres in a test chamber, the scattering shape and magnitude are recorded and compared against Mie calculations.

Location of Data Files \\DOUGKEIRPC\Archive\A_Lisst_files\1108_C_2meg_UMaryland):

Details and Results: The 3 plots below show the results:



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