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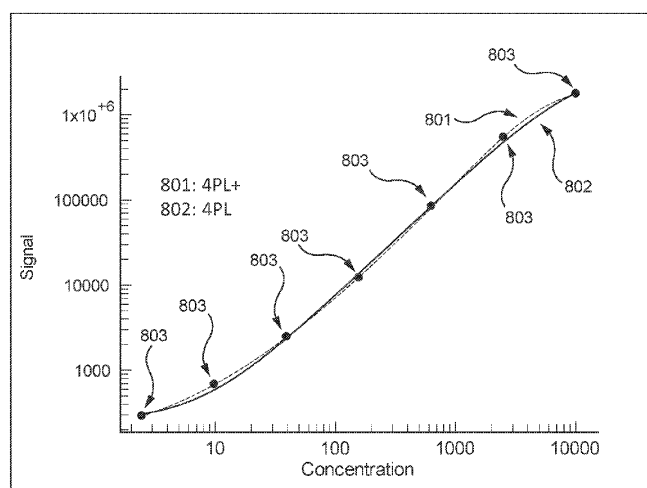


FIG. 8

(57) Abstract: Systems and methods for calibrating sample assays for analytes are provided. The systems and methods are based on a calibration curve fitting that uses a modified four parameter logistic regression fit equation (modified 4PL) with a modified Hill's slope that is dependent on a function of an inverse of the quantity of an analyte or on a function of a natural logarithm of an inverse of the quantity of the analyte.

[Continued on next page]

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