

$$adjusted\ decibels = k \cdot a^{(-x+b)} + m$$

$$ESL - SL = 1.99 \cdot 3.44^{(-x+4.34)} - 3.59$$

$$SL - ASL = 3.55 \cdot 4.16^{(-x+3.93)} - 5.13$$

$$PSL - SL = 1.54 \cdot 4.33^{(-x+4.44)} - 5.43$$