

**From:** Michiel Lotter [mailto:MLotter@nextivityinc.com]

**Sent:** Thursday, March 20, 2014 2:35 PM

**Subject:** RE: FCC MSCL Calculations Request

MSCL for 850MHz band

$$\begin{aligned}\text{MSCL} &= 20 \log_{10}(\text{Freq in MHz}) + 20 * \log_{10}(\text{distance}) - 27.5 \\ &= 20 * \log_{10}(884 \text{ (center of downlink band)}) + 20 \log(1) - 27.5 \\ &= 31.4.\end{aligned}$$

MSCL for 1900MHz band

$$\begin{aligned}\text{MSCL} &= 20 \log_{10}(\text{Freq in MHz}) + 20 * \log_{10}(\text{distance}) - 27.5 \\ &= 20 * \log_{10}(1960 \text{ (center of downlink band)}) + 20 \log(1) - 27.5 \\ &= 38.2.\end{aligned}$$

The same MSCL values apply to both CU and WU.

Best regards

Michiel