

¶ 9 is in response to the FCC's request; The Conducted Power be specified in E.I.R.P. See Calculations below.

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Response to FCC Letter re RF Output Power
¶ 9 of FCC e-mail dated June 25, 2002

This paragraph requested the RF output power to be specified in E.I.R.P., defined in FCC Rules §24.5 terms and definition as:

“The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna.”

The power supplied to the antenna was measured at the antenna terminal as 0.1995 Watts. The antenna used on the NLT is a .5 ground plane antenna. The maximum power gain over an isotropic antenna is 4.823; therefore,

$$\begin{aligned} 0.1995 \times 4.823 &= .9622 \text{ Watts E.I.R.P.} \\ &= (29.8327 \text{ DBm E.I.R.P.}) \end{aligned}$$

Norwood J. Patterson

7/15/02

ComDev FCC E.I.R.P. response

