

FCC ID: NZLLAHL5

RF Exposure/ S A R Statement

Applicant: Gentex Corporation

Model: LAHL5

Calculations:

The following information provides the minimum separation distance for the antenna as part of the design for the "LAHL5" as calculated from the FCC OET Bulletin 65, Appendix A, Table (B) Limits for General Population/Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a $f/1500\text{mW/cm}^2$ (0.601mW/cm^2) uncontrolled exposure limit. The power density formula used was:

$$S = (P \cdot G) / (4 \cdot \pi \cdot r^2)$$

Where

P = 12.49dBm (Maximum Power Output Power)

G = 7.8dBi (Numerical Antenna Gain, 7.8dBi)

R = 20.0cm

(P+G) = 20.29dBm

Converting 20.29dBm to mW = 107mW

The Power Density $S = 0.0213\text{mW/cm}^2$

This is less than the above limit.