

To whom it may concern,

On behalf of our customer Nedap N.V. we hereby declare the following device:

FCC ID : CGDLWBRDG
IC : 1444A-LWBRDG
Manufacturer : Nedap N.V.
Brand : Nedap
Model : Luxon Bridge
HVIN : 9986294

The EUT is considered as 'Mobile' use.

The EUT has a maximum rated output power e.i.r.p. of 9.98 mW (equals about 9.9 dBm) in the frequency range of 2408 – 2475 MHz which means that the worst case prediction of power density (100% reflection) at 20 cm distance (worst case) can be calculated as follows :

$$S = \frac{\text{EIRP}}{4 * \pi * R^2} \quad (\text{power density without reflection})$$

$$S = \frac{2^2 * \text{EIRP}}{4 * \pi * R^2} \quad (\text{power density with 100\% reflection})$$

$$S = \frac{2^2 * \text{EIRP}}{4 * \pi * R^2} = \frac{\text{EIRP (mW)}}{\pi * (20\text{cm})^2} = \frac{9.98}{\pi * (20)^2} = 0.0079 \text{ mW/cm}^2$$

(limit =10 W/m² is 1.0 mW/cm²)

This means that the equipment is in compliance with FCC KDB Publication 447498, 47 C.F.R. §1.1310 and §2.1091 and fulfils the requirements of RSS-102 Issue 5 Section 2.5.2. stating: **at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz.**

For this EUT the this calculates to: $1.31 \times 10^{-2} (2408^{0.6834}) = 2.68 \text{ W}$.

The EUT's maximum rate output power (EIRP) of 9.98 mW is within this requirement.

Note: For conservativeness, the lowest frequency is used for calculation.

Best regards,
TÜV Rheinland Nederland B.V.



R .van der Meer
Test Engineer