To whom it may concern,

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

FCC ID : CGDLWIOT2 IC : 1444A-LWIOT2

Manufacturer : N.V. Nederlandsche Apparatenfabriek 'Nedap'.

Brand : Nedap

Model : Luxon IoT Node Zhaga and Luxon IoT Node Nema

HVIN : 9986979 and 9987061

The EUT is considered as 'Mobile' use.

The EUT has a maximum rated output power e.i.r.p. of 9.97~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:

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

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

$$S = \frac{2^2 \cdot EIRP}{4 \cdot \pi \cdot R^2} = \frac{EIRP \text{ (mW)}}{\pi \cdot (20\text{cm})^2} = \frac{9.97}{\pi \cdot (20)^2} = 0.0079 \text{ mW/cm}^2 \text{ (limit = 10 W/m}^2 \text{ is 1.0 mW/cm}^2)}$$

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 x 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 9.97 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