

RF exposure analysis for the equipment Polar 5S (FCC ID: INW5S; IC: 6248A-5S)

The output power of the device is low (3.1 mW) and below the 10 mW SAR Test Exclusion threshold for 2.45 GHz frequency band as detailed in Appendix A of KDB 447498 D01 General RF Exposure Guidance v06. According the formula 4.3.1 a)

$$\left[\frac{3.1 \text{ mW}}{5 \text{ mm}} \right] * \left[\sqrt{2.440 \text{ GHz}} \right] = 0.97 \leq 3.0$$

The output power of the device (3.1 mW) is also below 4 mW output power limit for 2.45 GHz frequency band set in section 2.5.1 of RSS-102, issue 5 (March 19, 2015) in the Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance, separate distance of ≤ 5 mm on 2.45 GHz frequency.

For that reason the equipment is categorically excluded from routine environmental evaluation for RF exposure and it is deemed to comply with FCC and ISED limits for exposure to electromagnetic fields.

Signed on behalf of Polar Electro Oy in Kempele on October 20th, 2023.



Pentti Pärnänen
Senior Specialist, Product Approvals
Tel: +358 440 210 358
Fax: +358(0)8 5202 220
Email: pentti.parnanen@polar.com
Polar Electro Oy

