

# STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

## Equipment

Type of equipment:	Communication Radio
Brand name:	SpiroCom
Type / Model:	SpiroCom
Manufacturer:	Interspiro AB
By request of:	Roland Tschöp

Transmitting frequency	902-928 MHz
Max peak output power, measured at 902,55MHz	19,4 dBm = 87,096 mW

## Calculations

*Timing parameters are according to the manufacturer.*

The maximum transmission time during one transmission pulse

Sync data: 1,14 ms

Audio data: 6,54 ms

There is 40 ms between each transmission pulse.

## Maximum duty cycle:

$$\frac{1,14 + 6,54\text{ms}}{40\text{ms}} = \frac{7,68\text{ms}}{40\text{ms}} = 19,2\%$$

**Average power:**

$$87,096\text{mW} * 19,2\% = 16,72\text{ mW}$$

**The low power threshold in FCC KDB 616217 is:**

$$\frac{60}{f_{\text{GHz}}} = \frac{60}{0,90255} = 66,478\text{mW}$$

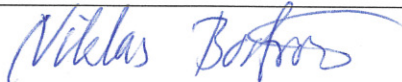
**Conclusion:**

Table 2 in KDB 616 217 says that no further SAR evaluation is required when the average output power is below the low power threshold.

The requirements are fulfilled without testing.

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