

## RF Exposure Evaluation

### 1. FCC KDB 447898 D01 v05r02.

**SAR test exclusion threshold formula according to KDB 447898 D01 is**

$$\frac{EIRP \sqrt{f}}{d} < 3$$

Where:

*EIRP* is max. average radiated power of a channel, including tune-up tolerance, mW

*f* is operating frequency, GHz

*d* is min. test separation distance, mm

The maximum measured peak conducted output power is 14.2 mW (11.5 dBm). The antenna gain, G is 3.0 dBi. Therefore, the maximum calculated average EIRP is 28.4 mW.

As declared by the Applicant, the EUT transmits with the maximum source-based Duty Cycle of 2.84% (see Operational Description, sec. 3.1.1 and 3.1.2).

Therefore, the average EIRP =  $28.4 \times 0.0284 = 0.81$  mW.

At 5mm distance the condition for SAR exclusion threshold is:

$$\frac{0.81 \sqrt{2.48}}{5} = 0.26 \text{ which is less than 3.}$$

*Therefore, SAR testing is not required as the SAR Test Exclusion Threshold condition is satisfied.*

### 2. IC RSS-102 Issue 5.

**SAR Exemption limit according to IC RSS-102 ( sec. 2.5.1) is:**

at frequency 2450 MHz and separation distance  $\leq 5$  mm SAR Exemption limit equals 4 mW.

*SAR evaluation is not required since the higher of the maximum conducted or equivalent isotropically radiated power (EIRP) source-based, time averaged output power is below the exemption limit.*

Results	Complies
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