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1.0 Maximum Permissible Exposure Evaluation (Supplements the test report.)

The results of power measurement and intended use are compared to the RF exposure exemption criteria.

1.2 Criteria

Section Reference	Date
KDB 447498 D01 Mobile Portable RF Exposure v05r01 // RSS-102 Issue 5, Notice 2013 DRS0911	28 Apr 2016

1.3 Procedure

Measured peak power, calculated average, and spacing for the intended application are used to determine the maximum permissible exposure. Then verify against the FCC 3.0 exemption criteria.

1.4 Exemption Calculation

This device is not hand held and is placed by the user in a location per user instructions to minimize exposure. The exposure distance selected for this calculation is 4 cm or 40 mm.

Table 1.4.1 Power Calculation for Exposure, Highest frequency 978.0 MHz					
Conducted Peak Power mW	Calculated EIRP Peak Power dBm	Source Duty Cycle Factor dB	Maximum Antenna Gain dBi	Calculated EIRP dBm	EIRP In Linear Terms mW
20,184	43.05	-26.58*	2.0	18.47	70.3

*Based on 0.44 ms transmit duration and worst case minimum period of 200 ms (typical is 1000 ms).

FCC, SAR Exemption – Appendix A Criteria

Calculation for exclusion (with max power including tune up tolerance of 70.3 mW):

$$[(70.3 \text{ mW})/(40 \text{ mm})] \cdot [\sqrt{0.978(\text{GHz})}] = 1.74, \text{ and it follows that } 1.74 \leq 3.0$$

Therefore, the device meets the applicable FCC SAR exemption requirements.

Signed:

Eric Lifsey