

Appendix I- RF Exposure statement

Exposure Requirements – FCC KDB # 447498 D01 and RSS-102 Issue 4

FCC KDB # 447498 DO1 V05r02 - Mobile and Portable Device RF Exposure and Procedures and Equipment, Appendix A shows that the SAR Text Exclusion Threshold for a device with a separation distance of 10 mm at 2450 MHz is 19 mW.

RSS-102 section 2.5.1 states that a device is exempt from SAR evaluation if the frequency is “above 2.2 GHz and up to 3 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 20 mW for general public use...”.

Calculated EIRP

The maximum measured transmitter power is the following:

Conducted Output Power P _{out} [dBm]	Conducted Output Power P _{out} [mW]	Maximum Antenna Gain [dBi]	P _{out} EIRP [mW]
5.32	3.40	5.1	11.01

Note:

Per the equation in section 1.3.1 of FCC Document # 412172 D01 Determining ERP and EIRP v01;

$$\text{EIRP} = p_t \times g_t$$

where:

p_t = transmitter output power in watts

g_t = Numeric gain of transmitting antenna (unitless)

Evaluation for FCC

The maximum EIRP peak power output of the EUT is: 11.01 mW.
The EUT is well below the 19mW power level.

Evaluation for IC

The maximum EIRP peak power output of the EUT is: 11.01 mW.
The EUT is well below the 20mW power level.

Conclusion

SAR data is not required for either FCC or IC.