

## **RF Exposure Evaluation for IC : 29530-RADXACM3**

### **Applied procedures / limit**

According to RSS102 Issue 5 March 2015: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in section 2.5.2.

Limits for Maximum Permissible Exposure (MPE)

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

**A** below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);

**B** at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $4.49/f^{0.5}$  W (adjusted for tune-up tolerance), where  $f$  is in MHz;

**C** at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);

**D** at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $1.31 \times 10^{-2} f^{0.6834}$  W (adjusted for tune-up tolerance), where  $f$  is in MHz;

**E** at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

	Maximum E.I.R.P (dBm)	Tune up Produce power (dBm)	Max Tune up Produce power (dBm)	Max Tune up Produce power (W)	Limit (W)	Result
WIFI 2.4G	3.27	3 ± 1	4	0.00251	2.68	Pass
WIFI 5.1G	13.87	13 ± 1	14	0.02512	4.53	Pass
BT(BR+EDR)	-4.15	-4 ± 1	-3	0.0005	2.68	Pass
BLE	-2.49	-2 ± 1	-1	0.00079	2.68	Pass

**Conclusion:**

The measurement results comply with the RSS-102 for the uncontrolled RF Exposure and SAR Exclusion Threshold.