

## 10 Appendix A - General Product Information

### Radiofrequency radiation exposure evaluation

This exposure evaluation is intended for **FCC ID: TFOR4GPS**

According to KDB 447498 D01v06 section 4.3.1, For frequencies between 100 MHz to 6GHz and test separation distances  $\leq$  50 mm, the Numeric threshold is determined as:

Step a)

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR

>> The fundamental frequency of the EUT is 2457MHz,  
the test separation distance is  $\leq$  50mm.

(Manufacturer specified the separation distance is: 5mm)  
(5mm is the worst case according to the KDB)

Step b)

>> Numeric threshold (2457MHz), mW / 5mm \*  $\sqrt{2.457\text{GHz}}$   $\leq$  3.0  
Numeric threshold (2457MHz)  $\leq$  9.569mW

>> The power (calculated power + tune up tolerance) of EUT at 2457MHz is: 0.14mW  
Which is smaller than the Numeric threshold.  
Therefore, the device is exempt from stand-alone SAR test requirements.

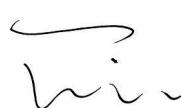
Power calculation (According to C63.10 chapter 9.5)

	Value	Unit
Field Strength Measured (E)	86.75	dB $\mu$ V/m
Measurement Distance (D)	3	m
Equivalent Isotropically Radiated Power (E.I.R.P in dBm)	-8.41	dBm
Equivalent Isotropically Radiated Power (E.I.R.P in mW)	0.14	mW

Remark: EIRP = E + 20log(D) -104.7

(EIRP is in dBm, E is in dB $\mu$ V/m, D is in metres)

Reviewed by:



Eric LI  
Section Manager

Prepared by:



Hosea CHAN  
EMC Project Engineer