Radio Frequency Exposure

LIMIT

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

EUT Specification

EUT	Wireless SmartBand
Frequency band (Operating)	 □ WLAN: 2.412GHz ~ 2.462GHz □ WLAN: 5.150GHz ~ 5.250GHz □ WLAN: 5.725GHz ~ 5.850GHz □ Bluetooth: 2.402GHz ~ 2.480 GHz □ Zigbee: 2.405GHz ~ 2.480 GHz
Device category	✓ Portable (<20cm separation)✓ Mobile (>20cm separation)
Exposure classification	 ☐ Occupational/Controlled exposure (S = 5mW/cm²) ☐ General Population/Uncontrolled exposure (S=1mW/cm²)
Antenna diversity	☐ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Max. output power	GFSK: 4.53dBm(2.84mW)
Antenna gain (Max)	-0.05 dBi
Evaluation applied	
Remark:	

Issued date : Jan. 04, 2016 Page No. : 1 of 2

Report No.: 1512027

FCC ID : HQXBSI03

The maximum average output power is 4.53dBm (2.84mW) at 2402MHz (with numeric -0.05dBi antenna gain.)

^{2.} DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.

For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.

^{*}Note: Simultaneous transmission is not applicable for this EUT.



TEST RESULTS

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distance ≤ 50 mm are determined by:

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

The max. average power of channel, including tune-up tolerance(mW) is 2.84mW @ 2402MHz (With Tune-up tolerance),

The min. test separation distance (mm) is 5 mm,

So, [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] = 0.9 < 3.0$ (With Tune-up tolerance).

Therefore, standalone SAR measurements are not required for both head and body.

Cerpass Technology Corp.

Issued date : Jan. 04, 2016 Page No. : 2 of 2 FCC ID : HQXBSI03

Report No.: 1512027