



Test Report

Date : 2018-01-15
No. : HM17120019

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3.1.9 RF Exposure

Test Requirement: FCC 47CFR 15.247(i)
Test Date: 2017-12-28
Mode of Operation: On mode

Test Method:

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.

Test Results:

The EUT complied with the requirement(s) of this section.
EUT meets the requirements of these sections as proven through MPE calculation
The MPE calculation for EUT @ 20cm
Based on the highest P = 0.65 mW@2442MHz

$$\begin{aligned} P_d &= PG / 4\pi * R^2 = (0.65 \times 1.00) / 12.566 * (20)^2 \\ &= (0.65) / 12.566 \times 400 = 1.223 / 5026.4 \\ &= 0.000129 \text{ mW/cm}^2 \end{aligned}$$

where:

- *Pd = power density in mW/cm²
- * G = Antenna numeric gain (1.00); Log G = g/10 (g = 0.0dBi).
- * P = Conducted RF power to antenna (0.65mW@2402MHz).
- * R = Minimum allowable distance.(20 cm)

- *The power density Pd = 0.000129mW/cm² is less than 1 mW/cm² (listed MPE limit)
- *The SAR evaluation is not needed (this is a desk top device, R> 20 cm)
- * The EUT(antenna) must be 0.2 meters away from the General Population.

The Hong Kong Standards and Testing Centre Limited

Head Office: 10 Dai Wang Street, Taipo Industrial Estate, Tai Po, N.T., Hong Kong

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, No. 57 Ting Kok Road, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

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