



No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan
District, Shenzhen, China 518057

Telephone: +86 (0) 755 2601 2053

Fax: +86 (0) 755 2671 0594

Email: sgs_internet_operations@sgs.com

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1.1 RF Exposure Compliance Requirement

1.1.1 Standard requirement

15.247(b)(4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6dBi. Except as shown in paragraph (c) of this section. if transmitting antennas of directional gain greater than 6dBi are used. the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1). (b)(2). and (b)(3) of this section. as appropriate. by the amount in dB that the directional gain of the antenna exceeds 6dBi.

1.1.2 EUT RF Exposure

The Max Conducted Peak Output Power is **0.50dBm(1.1220mW)** in Lowest channel;

The best case gain of the antenna is 4dBi.

4dB logarithmic terms convert to numeric result is nearly 2.51.

According to the formula. calculate the EIRP test result:

$$\text{EIRP} = P \times G = 1.1220\text{mW} \times 2.51 = 2.8162\text{mW} \text{ ①}$$

SAR requirement:

$$S = 60 / f(\text{GHz}) = 60 / 2.402 = 24.98\text{mW} \text{ ②} ;$$

$$\text{①} < \text{②}.$$

So the SAR report is not required.