



### RADIO FREQUENCY EXPOSURE

#### LIMIT

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 §15.247(b)(4) and §1.1307(b)(1) of this chapter.

# **EUT Specification**

EUT	Radio Controller Receiver
Model	SR12S
Frequency Band (Operating)	2405.0 MHz~ 2475.0 MHz (DSSI)
	☐ Portable (<20cm separation)
Device Category	■ Mobile (>20cm separation)
	☐ Others
	☐ Occupational/Controlled exposure (S = 5mW/cm2)
Exposure Classification	■ General Population/Uncontrolled exposure
	(S=1mW/cm2)
Antenna Diversity	☐ Single antenna
	■ Multiple antennas
	■ Tx diversity
	☐ Rx diversity
	☐ Tx/Rx diversity
Max. Output Power	12.79dBm
Antenna Gain (Max)	Gain=0dBi+10log2 dBi=3.01dBi (Numeric gain:2.0)
Evaluation Applied	■ MPE Evaluation
	☐ SAR Evaluation
Note:	

#### Note:

- 1. The maximum mix output power is 12.79dBm (19.01mW) with 2.0 numeric antenna gain.
- 2. For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20 cm, even if the calculations indicate that the MPE distance would be lesser.

# **TEST RESULT**

No non-compliance noted.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406 Complaint line: +86-20-85533471 E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Report No.: CNB3140424-00296-E&CNB3140424-00299-E

# FCC ID: 2ACS5-SR12S IC:11554B-SR12S CENTRE OF TESTING SERVICE





### Calculation

Given

 $S = \frac{P \times G}{4 \Pi d^2}$ 

(Equation 1)

Where d = distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power Density in mW / cm<sup>2</sup>

# **Maximum Permissible Exposure**

EUT Output Power=19.01mW

Numeric antenna gain=2.0

Substituting the MPE safe distance using d=20 cm into **Equation 1**:

Yields

The power density  $S = 19.01 \times 2.0 / (4 \Pi \times 400) \text{ cm}^2 = 0.0076 \text{mW/cm}^2$ 

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW / cm² even if the calculation indicates that the power density would be larger.)

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.