

RF Exposure Evaluation Report

Product : Remote control
Trade mark : N/A
Model/Type reference : S802G01, S802G02, S802G06
Serial Number : N/A
Report Number : EED32L00252202
FCC ID : 2AU8E-S802GXX
Date of Issue : Oct. 29, 2019
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
Test result : PASS

Prepared for:

Smartplus Inc

415 Steelcase Road, East Markham, Ontario Canada, L3R 1G3

Prepared by:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District,

Shenzhen, Guangdong, China

TEL: +86-755-3368 3668

FAX: +86-755-3368 3385

Tested By:

mark.chen.
Mark Chen

Compiled by:

smile zhong
Smile Zhong

Reviewed by:

Ware Xin
Ware Xin

Approved by:

Kevin Yang
Kevin Yang

Date:

Oct. 29, 2019

Check No.: 3096315740



2 Version

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4 General Information

4.1 Client Information

Applicant:	Smartplus Inc
Address of Applicant:	415 Steelcase Road, East Markham, Ontario Canada, L3R 1G3
Manufacturer:	DONGGUAN RIDONG INTELLIGENT EQUIPMENT CO., LTD.
Address of Manufacturer:	No.1 Shuibei Industry Estate, Fenggang Town, Dongguan City, Guangdong, China
Factory:	DONGGUAN RIDONG INTELLIGENT EQUIPMENT CO., LTD.
Address of Factory:	No.1 Shuibei Industry Estate, Fenggang Town, Dongguan City, Guangdong, China

4.2 General Description of EUT

Product Name:	Remote control
Model No.(EUT):	S802G01, S802G02, S802G06
Test Model No.:	S802G01
Trade Mark:	N/A
EUT Supports Radios application	914MHz, 915MHz, 916MHz

4.3 Product Specification subjective to this standard

Frequency Range:	914MHz ~ 916MHz
Modulation Type:	FSK
Test Power Grade:	Default
Test Software of EUT:	Default
Antenna Type:	Spring antenna
Antenna Gain:	2dBi
Power Supply:	2*lithium cell: 6V
Max EIRP Output Power:	85.75 dBμV/m (-9.48 dBm)
	The Max EIRP data refer to the report EED32L00252201
Sample Received Date:	Sep. 05, 2019
Sample tested Date:	Sep. 05, 2019 to Oct. 24, 2019
The tested sample(s) and the sample information are provided by the client. Model No.: S802G01, S802G02, S802G06 Only the model S802G01 was tested, The PCB boards of the three remote controllers are exactly the same. The difference is that the mounting position of the LED lamp is different	

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot$$

$$\left[\sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

$$(0.112\text{mW} / 5\text{mm}) * (2.405\text{GHz}^{0.5}) = 0.0347$$

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] = 0.0347 < 3.0$$

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

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00252201 for EUT external and internal photos.

*** End of Report ***

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