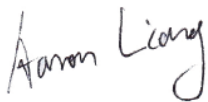
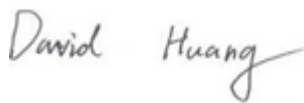


RF EXPOSURE REPORT



Report No.: Q190510S003-FCC-H

Supersede Report No.: N/A

Applicant	Remote Solution Co., Ltd.	
Product Name	RF4CE Remote Controller	
Model No.	Charter Spectrum V2 Remote controller	
Serial No.	RD27A	
Test Standard	FCC 2.1093	
Test Date	May 28, 2019	
Issue Date	May 28, 2019	
Test Result	☒ Pass ☐ Fail	
Equipment complied with the specification ☒		
Equipment did not comply with the specification ☐		
		
Aaron Liang Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
Q190510S003-FCC-H	NONE	Original	May 28, 2019

2. Customer information

Applicant Name	Remote Solution Co., Ltd.
Applicant Add	92, Chogok-ri, Nammyun, Gimcheon city, Kyungsangbukdo, Korea
Manufacturer	Remote Solution Co., Ltd.
Manufacturer Add	92, Chogok-ri, Nammyun, Gimcheon city, Kyungsangbukdo, Korea

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	535293
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

4. Equipment under Test (EUT) Information

Description of EUT: RF4CE Remote Controller

Main Model: Charter Spectrum V2 Remote controller

Serial Model: RD27A

Date EUT received: May 13, 2019

Test Date(s): May 28, 2019

Antenna Gain: -0.8dBi

Antenna Type: Chip Antenna

Type of Modulation: O-QPSK

RF Operating Frequency (ies): 2405-2480 MHz

Number of Channels: 16CH

Port: Please refer to user's manual

Input Power: **Battery:**
Spec: DC 3V

Trade Name : CHARTER

FCC ID: TX4RD27A

5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

5.1 RF Exposure

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), 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 level in excess of the Commission's guidelines.

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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,¹⁶ 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.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

$$\text{result} = P\sqrt{F} / D$$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm

5.2 Test Result

RF4CE:

Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
2405	6.54	6.5±1	7.5	5.62	1.74	3
2440	6.58	6.5±1	7.5	5.62	1.76	3
2475	6.95	6.5±1	7.5	5.62	1.77	3
2480	-0.28	0±1	1	1.26	0.39	3

Result: Compliance

No SAR measurement is required.