



# FCC RF Test Report

**APPLICANT** : Quectel Wireless Solutions Co., Ltd.  
**EQUIPMENT** : Smart Module  
**BRAND NAME** : Quectel  
**MODEL NAME** : SC20-AL  
**FCC ID** : XMR201911SC20AL  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

The product was received on Nov. 14, 2019. We, Sporton International (KunShan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (KunShan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

Approved by: James Huang / Manager



**Sportun International (Kunshan) Inc.**  
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China



## TABLE OF CONTENTS

1 GENERAL DESCRIPTION .....	4
1.1 Applicant .....	4
1.2 Manufacturer.....	4
1.3 Product Feature of Equipment Under Test.....	4
1.4 Product Specification of Equipment Under Test.....	5
1.5 Modification of EUT .....	5
1.6 Applicable Standards.....	5

### APPENDIX A. ORIGINAL REPORT



## REVISION HISTORY



## 1 General Description

### 1.1 Applicant

Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

### 1.2 Manufacturer

Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

### 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Module
Brand Name	Quectel
Model Name	SC20-AL
FCC ID	XMR201911SC20AL
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/HSPA+(16QAM uplink is not supported)/LTE/WLAN 2.4GHz 802.11b/g/n HT20/HT40/WLAN 5GHz 802.11a/n HT20/HT40/Bluetooth v3.0 + EDR/ v4.2 LE
HW Version	R1.0
SW Version	SC20ALSAR09A01
EUT Stage	Identical Prototype

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The standards updated the latest version. This project is FCC change ID application (original report FCC ID: XMR201706SC20A) and changed items are as followed. Since the test result is not affected by the changes, so all the test results release from original report FR741007D (FCC ID: XMR201706SC20A) which can be referred to Appendix A.

Change item	Original	Present
Operating System	Android	Linux
model name	SC20-A	SC20-AL
SW Version	SC20ASAR04A03H8G	SC20ALSAR09A01
Company Addr.	7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China



## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
<b>Tx/Rx Frequency Range</b>	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz
<b>Antenna Type / Gain</b>	<5180 MHz ~ 5240 MHz> Dipole Antenna with gain 4.00 dBi <5260 MHz ~ 5320 MHz> Dipole Antenna with gain 4.00 dBi <5500 MHz ~ 5700 MHz> Dipole Antenna with gain 4.00 dBi
<b>Type of Modulation</b>	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

**Note:** WLAN operation in 5600 MHz ~ 5650 MHz is notched.

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ANSI C63.10-2013



## **Appendix A. Original Report**

Please refer to original report FR741007D which is issued separately.