

## RF Exposure Report

**Report No.:** FCC\_RF Exposure\_LT19092001-CMM-001B14 Rev\_3.0

**FCC ID:** QHYRPM-A5A11-B14

**Test Model:** RPM-A5A11-B14

**Host Name:** RP5100 Base Band Module

**Series Model:** N/A

**Received Date:** 10/03/2019

**Test Date:** 10/03/2019-10/11/2019

**Issued Date:** 01/20/2020

**Standards:** FCC Part 2 (Section 2.1093)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

**Applicant:** CommScope

**Address:** 900 Chelmsford St, Lowell, MA 01851

**Issued By:** Bureau Veritas Consumer Products Services, Inc.

**Lab Address:** 1 Distribution Center Cir #1, Littleton, MA 01460

**Test Location (1):** 1 Distribution Center Cir #1, Littleton, MA 01460

**FCC Registration /  
Designation Number:** 886956/US1028



Bureau Veritas Consumer Products Services Inc. is accredited by the American Association for Laboratory Accreditation for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation

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### Release Control Record


Issue No.	Description	Date Issued
FCC_RF Exposure_LT19092001-CMM-001B14	Original Release	12/11/2019
FCC_RF Exposure_LT19092001-CMM-001B14 Rev_1.0	Updated Per TCB Review	12/16/2019
FCC_RF Exposure_LT19092001-CMM-001B14 Rev_2.0	Updated Per TCB Review	01/08/2020
FCC_RF Exposure_LT19092001-CMM-001B14 Rev_3.0	Updated Per EUT Information	01/20/2020

## 1 Certificate of Conformity

**Product:** OneCell Radio Point  
**Brand:** CommScope  
**Test Model:** RPM-A5A11-B14  
**Host Name:** RP5100 Base Band Module  
**Series Model:** N/A  
**Sample Status:** Sample Received in good condition  
**Applicant:** CommScope  
**Test Date:** 10/03/2019-10/11/2019  
**Standards:** FCC Part 2 (Section 2.1093)  
KDB 447498 D01 General RF Exposure Guidance v06  
IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services, Inc., Littleton Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :**  \_\_\_\_\_, **Date:** \_\_\_\_\_ 01/20/2020  
Chen Ge / Test Engineer

**Approved by :**  \_\_\_\_\_, **Date:** \_\_\_\_\_ 01/20/2020  
Shuo Zhang / Engineer Reviewer

## 2 RF Exposure

### 2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz; \*Plane-wave equivalent power density

### 2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

Where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.  
So, this device is classified as Mobile Device.

### 2.4 Antenna Gain

The antenna type is External antenna with 4 dBi gain.

## 2.5 Calculation Result of Maximum Conducted Power

Frequency (MHz)	Max Power (dBm)	Max Power (mW)	Turn-Up Tolerance	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
763	24.48	280	± 1dB	4	20	0.17	1

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 3 Conclusion

**Conclusion:**

MPE = 0.17 mW/cm<sup>2</sup> < 0.491 mW/cm<sup>2</sup>

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