

RF Exposure Report

Report No.: FCC_RF Exposure_SL21030302-CMM-011_B12B17

FCC ID: QHYRPM-A5A11-B12

Test Model: RPM-A5A11-B12

Host Name: RP5200 Base Band Module

Series Model: N/A

Received Date: 03/16/2021

Test Date: 04/16/2021-04/22/2021

Issued Date: 04/26/2021

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: 775 Montague Expressway, Milpitas, CA 95035

Test Location (1): 775 Montague Expressway, Milpitas, CA 95035

**FCC Registration /
Designation Number:** 540430

ISED# / CAB identifier: 4842D



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Release Control Record

Issue No.	Description	Date Issued
FCC_RF Exposure_SL21030302-CMM-011_B12B17	Original Release	04/26/2021

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 ²)	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 ²)*	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/cm²

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 PCB 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 ²)	Limit (mW/cm ²)
737.5	24.67	293	± 1dB	4	20	0.18	0.491

Note:

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

3 Conclusion

Conclusion:

MPE = 0.18 mW/cm² < 0.491 mW/cm²

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