

RF Exposure Report

Report No.: SABHPY-WTW-P20110791

WWAN FCC ID: A4C01007A

WLAN/BT FCC ID: PVH0965

Test Model: LE910C1-NS

Received Date: Nov. 20, 2020

Date of Evaluation: Dec. 03, 2020

Issued Date: Dec. 07, 2020

Applicant: RM Acquisition LLC

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
SABHPY-WTW-P20110791	Original Release	Dec. 07, 2020

1 Certificate of Conformity

Product: LTE Module

Brand: Telit

Test Model: LE910C1-NS

Sample Status: Identical Prototype

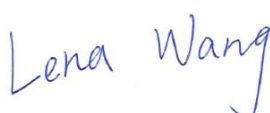
Applicant: RM Acquisition LLC

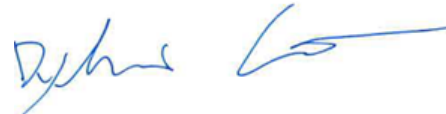
Date of Evaluation: Dec. 03, 2020

Standards: FCC Part 2 (Section 2.1091)

References Test Guidance : KDB 447498 D01 General RF Exposure Guidance v06
IEEE C95.3 -2002

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan 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 RF characteristics under the conditions specified in this report.


Prepared by : _____, **Date:** Dec. 07, 2020
Lena Wang / Specialist


Approved by : _____, **Date:** Dec. 07, 2020
Dylan Chiou / Senior Project Engineer

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

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 Calculation Result of Maximum Conducted Power

2 Function	Frequency Band (MHz)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
LTE Band 2	1850.7-1909.3	22.39	20	0.034	1
LTE Band 4	1710.7-1754.3	22.73	20	0.037	1
LTE Band 25	1850.7-1905.0	21.55	20	0.028	1

Function	Frequency Band (MHz)	ERP (dBm)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
LTE Band 5	824.7-848.3	21.56	23.71	20	0.047	0.55
LTE Band 12	699.7-715.3	20.95	23.10	20	0.041	0.47
LTE Band 26	831.5-841.5	21.46	23.61	20	0.046	0.55
LTE Band 26 (Part 90)	814.7-821.5	21.52	23.67	20	0.046	0.54

*EIRP= ERP+2.15

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Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN	2412-2462	20.7	3	20	0.047	1.00
	5180-5240	12.8	3	20	0.008	1.00
	5260-5320	12.6	3	20	0.007	1.00
	5500-5700	13.6	3	20	0.009	1.00
	5745-5825	13.7	3	20	0.009	1.00
BT	2402-2480	8.3	3	20	0.003	1.00

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible

Conclusion:

The formula of calculated the MPE is:

$$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

$$WLAN\ 2.4GHz + WLAN\ 5GHz + BT + WWAN = 0.047/1 + 0.009/1 + 0.003/1 + 0.047/0.55 = 0.145$$

Therefore the maximum calculations of above situations are less than the "1" limit.

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