

RF Exposure Report

Report No.: SA190524D09

FCC ID: P27BC950NA4

Test Model: BC950NA4

Series Model: BC950NA4yxxxxxxx, BC950NA4Cyxxxxxxx (y should be "blank" or "-"; x could be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose) (See section 2.4 for more details)

Received Date: May 24, 2019

Date of Evaluation: Jun. 17, 2019

Issued Date: Jun. 19, 2019

Applicant: Sercomm Corp.

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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
SA190524D09	Original Release	Jun. 19, 2019

1 Certificate of Conformity

Product: LTE Battery Camera

Brand: Sercomm

Test Model: BC950NA4

Series Model: BC950NA4yxxxxxxx, BC950NA4Cyxxxxxxx (y should be "blank" or "-"; x could be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose) (See section 3.2.1 for more details)

Sample Status: Engineering Sample

Applicant: Sercomm Corp.

Date of Evaluation: Jun. 17, 2019

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

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: Jun. 19, 2019

Rona Chen / Specialist

Approved by :



Date: Jun. 19, 2019

Dylan Chiou / 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

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

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 Description of EUT

All models are listed as below.

Product	Brand	Model	Difference
LTE Battery Camera	Sercomm	BC950NA4yxxxxxx	With GPS function
		BC950NA4Cyxxxxxx	Without GPS function

(y should be "blank" or "-"; x could be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose)

2.5 Antenna Gain

Antenna Type	Gain (dBi)				
	WCDMA II / LTE Band 2	LTE Band 4	WCDMA V / LTE Band 5	LTE Band 12	LTE Band 13
PIFA	2.94	2.88	-0.98	-2.90	-0.14

2.6 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WCDMA II	1850-1910	23.52	2.94	20	0.088	1.00
WCDMA V	824-849	24.09	-0.98	20	0.041	0.55
LTE 2	1850-1910	22.75	2.94	20	0.074	1.00
LTE 4	1710-1755	22.75	2.88	20	0.073	1.00
LTE 5	824-849	23.11	-0.98	20	0.032	0.55
LTE 12	699-716	23.09	-2.90	20	0.021	0.47
LTE 13	777-787	22.94	-0.14	20	0.038	0.52

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

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