

FCC MPE REPORT

FCC Certification

Applicant Name:
SNPowercom Co., Ltd

Date of Issue:
May 02, 2018

Address:
5th floor, Elentec building, Pangyo Seven Venture
Valley2, 17, Pangyo-ro 228beon-gil, Bundang-gu,
Seongnam-si, Gyeonggi-do, Korea,13487

Test Site/Location:
HCT CO., LTD., 74,Seoicheon-ro 578beon-gil,Majang-
myeo,Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-RF-1805-FC001

FCC ID : 2AAZ7-SB100

APPLICANT : SNPowercom Co., Ltd

Model: SB100-CC
EUT Type: Beacon Cradle Charger
Frequency Range: 2402 MHz - 2480 MHz (Bluetooth)

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)



Report prepared by : Kyung Soo Kang
Engineer of Telecommunication testing center



Approved by : Jong Seok Lee
Manager of Telecommunication testing center

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1709-E010	September 28, 2017	- First Approval Report
HCT-RF-1805-FC001	May 02, 2018	- Revised the original report (Original Report No.: HCT-R-1709-E010) - Added the result when this EUT used with the Medical Alert Device(FCC ID: 2AAZ7-SW100)

RF Exposure Statement

1. LIMITS

According to §1.1310 and §2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
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. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

$$S = PG/4\pi R^2$$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

3. RESULTS

BT LE

Max Peak output Power at antenna input terminal	8.625	dBm
Max Peak output Power at antenna input terminal	7.286	mW
Prediction distance	20.000	cm
Prediction frequency	2440.000	MHz
Antenna Gain(typical)	2.510	dBi
Antenna Gain(numeric)	1.782	-
Power density at prediction frequency(S)	0.002584	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm ²

Medical Alert Device(FCC ID: 2AAZ7-SW100)

PCS CDMA

Max Peak output Power at antenna input terminal	21.540	dBm
Max Peak output Power at antenna input terminal	142.561	mW
Prediction distance	20.000	cm
Prediction frequency	1908.750	MHz
Antenna Gain(typical)	2.330	dBi
Antenna Gain(numeric)	1.710	-
Power density at prediction frequency(S)	0.048499	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm ²

BT LE

Max Peak output Power at antenna input terminal	4.259	dBm
Max Peak output Power at antenna input terminal	2.666	mW
Prediction distance	20.000	cm
Prediction frequency	2480.000	MHz
Antenna Gain(typical)	-1.330	dBi
Antenna Gain(numeric)	0.736	-
Power density at prediction frequency(S)	0.000391	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm ²

Simultaneous transmission operations

<Note>

The antenna(s) must be installed such that a minimum separation distance of at least 20 cm is maintained between the radiator (antenna) and all persons at all times.

This device must not be co-located or operating in conjunction with any other antenna or transmitter except SW100(FCC ID: 2AAZ7-SW100)

This charger is co-located with medical alert device (SW100, FCC ID: 2AAZ7-SW100) and those devices can transmit simultaneously while charging.

Simultaneous MPE 20 cm is

BT LE (0.002584/1.0) for Beacon Charger Cradle +

{PCS CDMA(0.048499/1.0) + BT LE (0.000391/1.0)} for Medical Alert Device(FCC ID: 2AAZ7-SW100)

= 0.051474 < 1.0