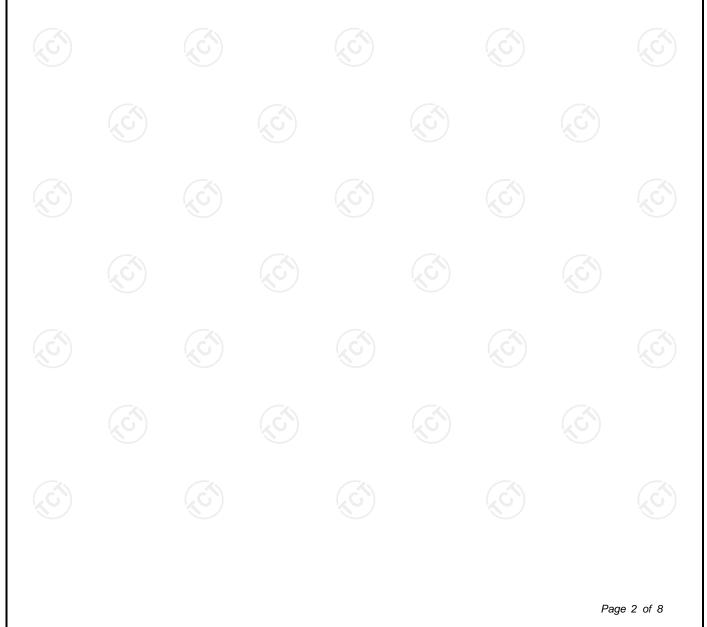
	ت ترکیل SHNOLOGY				
TEST REPORT					
FCC ID	2BFEP-CAM4				
Test Report No::	TCT241230E022	$\left( \mathcal{C}^{\prime}\right)$	$\langle \mathcal{C}^{(n)} \rangle$		
Date of issue:	Jan. 07, 2025				
Testing laboratory::	SHENZHEN TONGCE TESTING	G LAB			
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China				
Applicant's name::	CONVERGE BEAUTY LIMITED	$(\mathcal{C}^{\prime})$			
Address:	FLAT/RM C 22/F FORD GLORY STREET LAI CHI KOK KOWLOO				
Manufacturer's name:	CONVERGE BEAUTY LIMITED	CONVERGE BEAUTY LIMITED			
Address:	FLAT/RM C 22/F FORD GLORY PLAZA 37 WING HONG STREET LAI CHI KOK KOWLOON HONG KONG, China				
Standard(s):	FCC CFR Title 47 Part 1.1307				
Product Name::	4G 1080p Battery Camera with Solar Panel				
Trade Mark:	N/A				
Model/Type reference :	Q50, Q10, Q20, Q30, Q40, Q60, Q70, Q80, Q90, Q51, Q52, Q53, Q54, Q55, Q50 pro, Q50 plus				
Rating(s):	Rechargeable Li-ion Battery DC	3.7V			
Date of receipt of test item	Dec. 30, 2024				
Date (s) of performance of test:	Dec. 30, 2024 ~ Jan. 07, 2025				
Tested by (+signature) :	Brews XU	forents where so			
Check by (+signature) :	Beryl ZHAO	Boyle PCT)			
Approved by (+signature):	Tomsin	Jomsnes 32			
General disclaimer:					

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### **1. General Product Information**

### 1.1. EUT description

Product Name:	4G 1080p Battery Camera with Solar Panel		$(\mathbf{c}^{*})$
Model/Type reference:	Q50		
Sample Number:	TCT241230E021-0101		
Operation Frequency:	LTE Band 2: TX: 1850 MHz ~ 1910 MHz RX: 1930 MHz ~ 1990 MHz LTE Band 4: TX: 1710 MHz ~ 1755 MHz RX: 2110 MHz ~ 2155 MHz LTE Band 5: TX: 824 MHz ~ 849 MHz RX: 869 MHz ~ 894 MHz LTE Band 12: TX: 699 MHz ~ 716 MHz RX: 729 MHz ~ 746 MHz LTE Band 13: TX: 777 MHz ~ 787 MHz RX: 746 MHz ~ 756 MHz		
Modulation Type:	QPSK, 16-QAM		
Antenna Type:	FPC Antenna		
Antenna Gain:	2dBi		
Rating(s):	Rechargeable Li-ion Battery DC 3.7V	$(\mathbf{c})$	

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

# 1.2. Model(s) list

list	
Model No.	Tested with
Q50	
Q10, Q20, Q30, Q40, Q60, Q70, Q80, Q90, Q51, Q52, Q53, Q54, Q55, Q50 pro, Q50 plus	
	Model No. Q50 Q10, Q20, Q30, Q40, Q60, Q70, Q80, Q90, Q51, Q52,

Note: Q50 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of Q50 can represent the remaining models.

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## 2. General Information

#### 2.1. Test environment and mode

ltem	Normal condition			
Temperature		+25ºC		
Voltage		DC 3.7\	/	$(\mathbf{c})$
Humidity		56%		
Atmospheric Pressure:	$\langle \mathcal{C} \rangle$	1008 mb	ar 🕜	A.C.
Test Mode:				
Engineering mode:	Keep the	EUT in continuous trans	smitting by s	elect channel

#### 2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1		L	1	1
Nata				

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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### 3. Facilities and Accreditations

#### 3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC Registration No.: 10668A
  - SHENZHEN TONGCE TESTING LAB
  - CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

### 3.2. Location

#### SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339





### 4. Test Results and Measurement Data

According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Remark: 1)

**For LTE Band 2:** The maximum output power for antenna is 20.95dBm (124.45mW) at 1907.5MHz, 2dBi antenna gain(with 1.58 numeric antenna gain.)

**For LTE Band 4:** The maximum output power for antenna is 20.81dBm (120.50mW) at 1712.5MHz, 2dBi antenna gain(with 1.58 numeric antenna gain.)

**For LTE Band 5:** The maximum output power for antenna is 22.99dBm (199.07mW) at 825.5MHz, 2dBi antenna gain(with 1.58 numeric antenna gain.)

For LTE Band 12: The maximum output power for antenna is 22.96dBm (197.70mW) at 707.5MHz, 2dBi antenna gain(with 1.58 numeric antenna gain.)

For LTE Band 13: The maximum output power for antenna is 22.49dBm (177.42mW) at 784.5MHz, 2dBi antenna gain(with 1.58 numeric antenna gain.)

2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be lesser.

#### **Calculation:**

Given

Where

 $E = \frac{\sqrt{30*P*G}}{d} \quad \& \quad S = \frac{E^2}{3770}$   $E = Field \ strength \ in \ Volts \ / \ meter$   $P = Power \ in \ Watts$   $G = Numeric \ antenna \ gain$   $d = Distance \ in \ meters$   $S = Power \ density \ in \ milliwatts \ / \ square \ centimeter$ 

Substituting the MPE safe distance using d=20cm into above equation. Yields: S=0.000199\*P\*G

Frequency range (MHz)	range Electric field strength Magnetic field strength (V/m) (A/m)		Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)	
(A) Limits for Occupational/Controlled Exposures					
0.3-3.0	614	1.63	*(100)	6	
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6	
30-300	61.4	0.163	1.0	6	
300-1500	/	/	f/300	6	
1500-100,000	1	1	5	6	
(B) 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	1	/	f/1500	30	

1500-100,000 F=frequency in MHz

\*=Plane-wave equivalent power density

1

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

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Mode	Power(mW)	numeric antenna gain	Power density (mW/cm²)	Limit (mW/cm²)	Result
LTE Band 2	124.45	1.58	0.03913	1	
LTE Band 4	120.50	1.58	0.037888	1	
LTE Band 5	199.07 💉	1.58	0.062592	0.550333	
LTE Band 12	197.70	1.58	0.062161	0.471667	
LTE Band 13	177.42	1.58	0.055784	0.523000	

\*\*\*\*\*END OF REPORT\*\*\*\*\*

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