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Maximum Permissible Exposure Evaluation

FCC ID: 2AQ7C-M650V

1. Client Information

Applicant	1	SHENZHEN TOVISION TECHNOLOGIES CO., LTD
Address		136A, Yangguang Zhonglv Garden, 2057# Qianhai Road, Nanshan District, Shenzhen City, China
Manufacturer		SHENZHEN TOVISION TECHNOLOGIES CO., LTD
Address	•	136A, Yangguang Zhonglv Garden, 2057# Qianhai Road, Nanshan District, Shenzhen City, China

2. General Description of EUT

EUT Name		Wireless trail came	camera			
Models No.		M650-V				
Model Difference	d ch	N/A				
ODS FOR	VIX.	Frequency Bands: LTE Band 4:TX: 1710MHz-1755MHz, RX: 2110MHz-2155MHz LTE Band 13: TX: 777MHz -787MHz, RX: 746MHz-756MHz				
		Antenna Type:	Dipole Antenna			
Product Description		Antenna Gain:	LTE Band 4: 3dBi LTE Band 13: 3dBi			
	1	Modulation Type:	QPSK, 16QAM			
		Bandwidth:	LTE Band 4: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 13: 5MHz/10MHz			
Power Rating	Ŀ	DC 12*1.5V AA Battery. DC 6V from USB Port.				
Software Version : N//		N/A				
Hardware Version		: N/A				

Note: More test information about the EUT please refer the RF Test Report.

TB-RF-075-1. 0

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MPE Calculations for GSM

1. Antenna Gain:

3 dBi Dipole Antenna

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

Where

S: power density

P: power input to the 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

4. Test Result:

		Worst	Maximum N	IPE Result			
Mode	N _{TX}	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
LTE BAND 4	1	23.75	23±1	24	3	20	0.0997
LTE BAND 13	1	23.22	23±1	24	3	20	0.0997

Note:

RF Output power specifies that Maximum Conducted Peak Output Power.

⁽¹⁾ N_{TX}= Number of Transmit Antennas



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5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm²)
300-1,500	F/1500
1,500-100,000	1.0

300-1500MHz:

The worst MPE is calculated as *0.0997 mW / cm*² < *limit 784.5/1500=0.523 mW/cm*². So, RF exposure limit warning or SAR test are not required.

1500-100000MHz:

The worst MPE is calculated as **0.0997 mW / cm² < limit 1mW/cm²**. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

----END OF THE REPORT----