

RF EXPOSURE REPORT

Applicant	TCL Technoly Electronics (Huizhou) Co., Ltd.
Address	Section 37, Zhongkai High-tech Development Zo n e, Huizhou City, Guang Dong Province, P.R.China.

Manufacturer or Supplier	Panasonic Corporation	
Address	1-15 Matsuo-cho Kadoma-shi, Osaka 571-8504 Japan	
Product	Bluetooth Module	
Brand Name	Panasonic	
Model	TBM-QCC307B	
Additional Model & Model Difference	N/A	
Date of tests	Mar. 20, 2019 ~ Apr. 08, 2019	

- FCC Part 2 (Section 2.1091)
- **KDB 447498 D01**
- **⊠** IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Andy Zhu Project Engineer / EMC Department	Approved by Glyn He Supervisor/ EMC Department
Andy	A
	Date: Apr. 24, 2019

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acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM190320N072	Original release	Apr. 24, 2019

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1. CERTIFICATION

FCC ID:	ZVAMS000026		
PRODUCT:	Bluetooth Module		
BRAND NAME:	Panasonic		
MODEL NO.:	TBM-QCC307B		
ADDITIONAL NO.:	N/A		
APPLICANT:	TCL Technoly Electronics (Huizhou) Co., Ltd.		
STANDARDS:	FCC Part 2 (Section 2.1091)		
	KDB 447498 D01		
	IEEE C95.1		

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2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD MAGNETIC FIELD POWER DENSIT STRENGTH (V/m) STRENGTH (A/m) (mW/cm²)		POWER DENSITY (mW/cm²)	AVERAGE TIME (minutes)			
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE							
300-1500 F/1500 30							
1500-100,000			1.0	30			

F = Frequency in MHz

3. 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

4. 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.

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5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	3.0	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
GFSK	2402-2480	4	+-1	3	5
8DPSK	2402-2480	1	+-1	0	2

The measured conducted Average Power

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Mode	Frequency (MHz)	Averaged Power (dBm)			
GFSK	2402	4.21			
8DPSK	2480	1.36			

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2402-2480	5	3.0	20	0.001255	1.0

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