RF Exposure Evaluation

FCC ID: 2AJMW-MS670B

1. Client Information

Applicant : Edco Electronics Inc.
Address : 8484 Avenue de l'EsplanadeMontrealQuebecH2P 2R7Canada
Manufacturer : Pyung Favor Technology Limited
Address : D Building, Hongzhuyongqi Industrial Park, Lezhujiao Village, Xixiang, Bao'an District, Shenzhen, China

2. General Description of EUT

EUT Name	:	BLUETOOTH CD STEREO SYSTEM	
Models No.	:	MS670B, MC-602, MC-604, MC-605, MC-606, MC-608, MC-610, MC-805, MC-806, MC-804, MC-801, MC-802, MC-803, MC-808, MC-809, MC-901, MC-902, MC-903, MC-904, MC-905, MC-906, MC-908, MC-909, MC-912, MC-913, MC-914, MC-915, MC-916, MC-918, MC-919, MC-920, MC-921, MC-971, MC-991	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance.	
Product Description	:	Operation Frequency:	Bluetooth V4.1: 2402MHz~2480MHz
		RF Output Power:	GFSK:2.523dBm(Max) π/4-DQPSK:1.875dBm (Max) 8-DPSK:1.880dBm (Max)
		Antenna Gain:	0dBi PCB Antenna
Power Supply	:	DC Supply by the DC Adapter.	
Power Rating	:	Input:DC 5V 2A	
Product HW/SW	:	HW: PZ-MC605-M5677 REV5.0; SW: V01	
Radio HW/SW	:	HW: REV2; SW: V10	
Test Software	:	BK3254 RF Test_V1.3.exe	
TX Power setting Parameters	:	3	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

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

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MPE Calculations for WIFI

1. Antenna Gain:

PCB Antenna: 0dBi.

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:

Mode	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]	Limit of Power Density (mW/cm^2) (S)
GFSK	2.523	2±1	3	0	20	0.00040	1
π/4-DQPSK	1.876	1±1	2	0	20	0.00031	1
8-DPSK	1.880	1±1	2	0	20	0.00031	1

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/cm^2)
300-1,500	F/1500
1,500-100,000	1.0

For BT:2402~2480 MHz
MPE limit S: $1mW/cm^2$
The MPE is calculated as ***$0.00040mW/cm^2 < limit\ 1mW/cm^2$***. 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 REPORT-----