Maximum Permissible Exposure Evaluation

FCC ID:2BH3E-DT263W-A

1. Client Information

Applicant	:	Shenzhen Pinwei Technology Co.,Ltd
Address	:	3rd Floor, Building 2, Longfeng Industrial Park, No.3 Tianxi Road, Fucheng Street, Longhua District, Shenzhen City, Guangdong Province, China.
Manufacturer	:	Shenzhen Hongshi Industrial Co.,Ltd
Address	:	3rd Floor, Building 2, Longfeng Industrial Park, No.3 Tianxi Road, Fucheng Street, Longhua District, Shenzhen City, Guangdong Province, China.

2. General Description of EUT

EUT Name	:	Wireless extender	
Model(s) No.		DT263W-A, DT263W-B, DT263W-C, DT263W-D, DT263W-E, DT263W-F, W33A02, W33A02-B, W33A02-B2, W33A02-M2, W33A02-M4, W33B02, W33B02-B, W33B02-B2, W33B02-M2, W33B02-M4, W33C02, W33C02-B, W33C02-B2, W33C02-M2, W33C02-M4	
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is that appearance.	
Product Description	:	Operation Frequency:	U-NII-1: 5180MHz~5240MHz
Power Supply	:	Input: 5V	
Software Version	:	16412019(TX)	
Hardware Version	:	DT263W-A_v1.0	
Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.			

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

1 A/F., Building.6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an, Shenzhen, Guangdong, China
Tel: +86 75526509301 Fax: +86 75526509195

MPE Calculations

1. **Antenna Gain:**

   Dipole Antenna: 3.85dBi

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	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]	limit (mW/cm2)
5G a	1	14.98	15±1	16	2.52	20	0.0141	1
5G n20	1	14.63	15±1	16	2.52	20	0.0141	1
Note: RF Output power specifies that Maximum Conducted Peak Output Power.								

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 LTE

MPE limit S: $1mW/cm^2$

The MPE is calculated as **0.0141** ***< 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.

6. Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

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