

FCC RF EXPOSURE REPORT

FCC ID: 2AR2STAFW1RE

Project No. : 2112C090
Equipment : Wireless subwoofer
Brand Name : 
PHILIPS or
Test Model : TAFW1/37
Series Model : TAFW1, TAFW1RE, TAFW1RE/10, TAFW1/10, TAFW1RE/37, TAFW1/98, TAFW1RE/98, TAFW1xx/yy(x=A-Z or blank, yy=00-99 or blank for country code)
Applicant : MMD Hong Kong Holding Limited
Address : Unit 1006, 10th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong
Manufacturer : MMD Hong Kong Holding Limited
Address : Unit 1006, 10th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong
Factory : Zhong Shan City Richsound Electronic Industrial Ltd.
Address : No.16, East Shagang Road, Gangkou, Zhongshan, Guangdong, China
Date of Receipt : Dec. 16, 2021
Date of Test : Dec. 17, 2021 ~ Mar. 10, 2022
Issued Date : Mar. 19, 2022
Report Version : R00
Test Sample : Engineering Sample No.: DG202112168
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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TESTING CERT #5123.02

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue	Mar. 19, 2022

1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.

BTL's Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$$

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

Table for Filed Antenna:

For WLAN 2.4GHz:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	Yuan de Electronics (ShenZhen) Co. LTD	136-W914X-10B	FPC	N/A	2.92

Note: The antenna gain is provided by the manufacturer.

For RLAN 5GHz:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	Yuan de Electronics (ShenZhen) Co. LTD	136-B8506-20B	FPC	N/A	4.80

Note: The antenna gain is provided by the manufacturer.

For 5.8G SRD:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	Wisvation Technology Co.,Ltd	N/A	PCB	N/A	0.26

Note: The antenna gain is provided by the manufacturer.

3. TEST RESULTS

Tune up tolerance(dBm)		
2.4GHz	5GHz	5.8G SRD
≤ 15.00	≤ 13.00	≤ 6.00

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.92	1.9588	15.00	31.6228	0.01233	1	Complies

For 5GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.8	3.0200	13.00	19.9526	0.01199	1	Complies

For 5.8G SRD:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
0.26	1.0617	6.00	3.9811	0.00084	1	Complies

For the max simultaneous transmission MPE:

Ratio		Total	Limit of Ratio	Test Result
5GHz	5.8G SRD			
0.01233	0.00084	0.01317	1	Complies

Note: The calculated distance is 20 cm.
Output power including tune up tolerance.

End of Test Report