

FCC RF EXPOSURE REPORT

FCC ID: 2AR2STAFB1RE

Project No. : 2112C091
Equipment : Soundbar speaker
Brand Name : 
Test Model : PHILIPS or TAFB1RE/37
Series Model : TAFB1, TAFB1RE, TAFB1RE/10, TAFB1/10, TAFB1/37, TAFB1/98, TAFB1RE/98, TAFB1xx/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. 17, 2021
Date of Test : Dec. 17, 2021 ~ Mar. 04, 2022
Issued Date : Mar. 21, 2022
Report Version : R00
Test Sample : Engineering Sample No.: DG2021121618
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.

Vincent Tan

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Approved by : Chay Cai



TESTING CERT #5123.02

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-6-2112C091	R00	Original Report.	Mar. 21, 2022	Valid

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:

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

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 BT:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	Yuan de Electronics (Shenzhen) Co. LTD	136-B918X-10A	FPC	N/A	2.44

Note: The antenna gain is provided by the manufacturer.

For WLAN 2.4GHz:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	Yuan de Electronics (Shenzhen) Co. LTD	136-B918X-20A	FPC	N/A	2.42

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-B918X-30A	FPC	N/A	4.39

Note: The antenna gain is provided by the manufacturer.

For 5.8G SRD:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)	Note
1	Yuan de Electronics (Shenzhen) Co. LTD	136-B918X-40A	FPC	N/A	1.63	TX
2	Yuan de Electronics (Shenzhen) Co. LTD	136-B918X-50A	FPC	N/A	4.16	RX

Note: The antenna gain is provided by the manufacturer.

3. TEST RESULTS

Tune up tolerance(dBm)			
BT	2.4GHz	5GHz	5.8G SRD
≤1.50	≤15.00	≤11.50	≤10.00

For BT:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.44	1.7539	1.50	1.4125	0.00049	1	Complies

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
2.42	1.7458	15.00	31.6228	0.01099	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
4.39	2.7479	11.50	14.1254	0.00773	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
1.63	1.4555	10.00	10.0000	0.00290	1	Complies

For the max simultaneous transmission MPE:

Ratio			Total	Limit of Ratio	Test Result
BT	2.4GHz	5.8G SRD			
0.00049	0.01099	0.00290	0.01438	1	Complies

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

End of Test Report