

RF Exposure Evaluation Report

Report Reference No...... : **MTWG22040297-H**

FCC ID..... : **2A7BX-ME-F800W**

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Date of issue.....: April 24,2022

Representative Laboratory Name. : **Shenzhen Most Technology Service Co., Ltd.**

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Applicant's name.....: **Foshan Shunde Juke Electric Appliance Co., LTD**

Address.....: East side of Jiangcun Overpass, Ganggang Road, Shunde District,
Foshan City, Guangdong Province,China

Test specification/ Standard.....: **47 CFR Part 1.1307**

47 CFR Part 2.1093

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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Test item description.....: Humidifier

Trade Mark.....: N/A

Model/Type reference.....: ME-F800W

Listed Models: PH-805-24

Modulation Type.....: CCK/DSSS/ OFDM

Operation Frequency.....: From 2412 - 2462MHz

Rating.....: AC120V/60Hz

Hardware version.....: RE743-MB-V0.1

Software version: V1.0.4

Result.....: **PASS**

Test item description.....: Humidifier

TEST REPORT

Equipment under Test : Humidifier

Model /Type : ME-F800W

Listed Models : PH-805-24

Remark : Only the model name is different.

Applicant : **Foshan Shunde Juke Electric Appliance Co., LTD.**

Address : East side of Jiangcun Overpass, Ganggang Road, Shunde District, Foshan City, Guangdong Province,China

Manufacturer : **Foshan Shunde Juke Electric Appliance Co., LTD.**

Address : East side of Jiangcun Overpass, Ganggang Road, Shunde District, Foshan City, Guangdong Province,China

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2022.04.24	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$ Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.1.3 EUT RF Exposure

Measurement Data

Wifi 2.4G

802.11b			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412MHz)	12.53	12.53 ± 1	13.53
Middle(2437MHz)	12.41	12.41 ± 1	13.41
Highest(2462MHz)	12.37	12.37 ± 1	13.37

802.11g			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412MHz)	10.46	10.46 ± 1	11.46
Middle(2437MHz)	11.05	11.05 ± 1	12.05
Highest(2462MHz)	9.46	9.46 ± 1	10.46

802.11n(HT20)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412MHz)	9.75	9.75 ± 1	10.75
Middle(2437MHz)	9.74	9.74 ± 1	10.74
Highest(2462MHz)	8.98	8.98 ± 1	9.98

Worst case: 802.11b						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum Peak Conducted Output Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Highest(2462 MHz)	13.53	22.54	1	0.006	1.0	Pass

Note: 1) Refer to report **MTWG22040297-R1** for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (22.54 \cdot 1.26) / (4 \cdot 3.1416 \cdot 20^2) = 0.006$

Note: 3) EUT's Bluetooth module is more than 20cm away from the human body.

BLE

GFSK				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	2.663	2.663 ± 1	3.663	2.32
Middle(2440MHz)	1.865	1.865 ± 1	2.865	1.93
Highest(2480MHz)	2.277	2.277 ± 1	3.277	2.12

Worst case: GFSK

Channel	Maximum Peak Conducted Output Power (dBm)	Maximum Peak Conducted Output Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Lowest(2402MHz)	3.663	2.32	1	0.0006	1.0	Pass

Note: 1) Refer to report **MTWG22040297-R2** for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (2.32 * 1.26) / (4 * 3.1416 * 20^2) = 0.0006$

Note: 3) EUT's Bluetooth module is more than 20cm away from the human body.

.....THE END OF REPORT.....