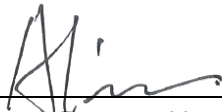


RF EVALUATION TEST REPORT

Applicant..... : Raffel Systems, LLC
Address..... : N112 W14600 Mequon Road Germantown Wisconsin United States
Manufacturer..... : Xiamen Raffel Electronic Technology Co., LTD
Address..... : Unit 2002, NO.5 Yilan Road, Guanyinshan CBD, Siming District, Xiamen, Fujian, China.
Factory..... : Fortress Electronics (Xiamen) Co.,LTD
Address..... : East of The Fifth Floor, 181 Banqiao Road, Jimei District, Xiamen, Fujian, China
Product Name.....: MPP emission module
Brand Name..... : Raffel Systems
Model No. : MDL MPP15 01
FCC ID..... : YZHMDLMPP1501
Measurement Standard..... : 47 CFR PART 2, Section 2.1091, 47 CFR PART 1, Section 1.1310
Receipt Date of Samples.... : May 22, 2026
Date of Tested..... : May 22, 2026 to June 01, 2026
Date of Report..... : June 04, 2026

This report shows that above equipment is technically compliant with the requirements of the standards above. All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.



Prepared by

Alina Guo / Project Engineer



Approved by

Iori Fan / Authorized Signatory

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Revision History

Report Number	Description	Issued Date
NTC2605284F01	Initial Issue	2026-06-04

1. General Description of EUT

Product Information	
Product name:	MPP emission module
Main Model Name:	MDL MPP15 01
Additional Model Name:	N/A
Model Difference:	N/A
S/N:	2605-2723
Brand Name:	Raffel Systems
Hardware Version:	V01
Software Version:	V01
Rating:	Input: DC 9-29V, 2.2A Max Output: 15W Max
Typical Arrangement:	Table-top
I/O Port:	Refer to user manual
Accessories Information	
Adapter:	N/A
Cable:	N/A
Other:	N/A
Additional information	
Note:	N/A
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.

Technical Specification	
Frequency Range:	110.1-150.1KHz 360.670KHz (only Supports 15W power)
Modulation type:	ASK
Antenna Type:	Coil antenna
Number of Antenna:	1
Output power for coil:	5W, 10W, 15W
EUT Type:	Mobile

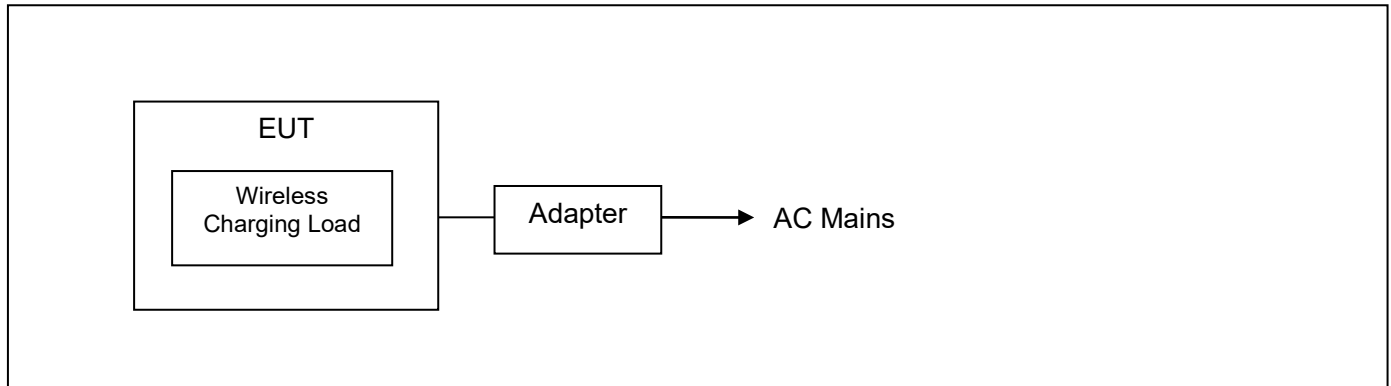
2. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)
Accreditations and Authorizations	:	The Laboratory has been assessed and proved to be in compliance with CNAS/CL01 Listed by CNAS, August 13, 2018 The Certificate Registration Number is L5795. The Certificate is valid until August 13, 2030 The Laboratory has been assessed and proved to be in compliance with ISO17025 Listed by A2LA, November 01, 2017 The Certificate Registration Number is 4429.01 The Certificate is valid until December 31, 2027 Listed by FCC, November 06, 2017 Test Firm Registration Number: 907417 Listed by ISED, June 08, 2017 The Certificate Registration Number. Is 9743A The CAB identifier number: CN0015
Test Site Location	:	Room 101, 1101, Building 2, No. 61, Hongmei Section, Wangsha Road, Hongmei Town, Dongguan, Guangdong, People's Republic of China

3. Test Modes Detail

Test Mode	Test Setup Configuration	Remark
1	Wireless Charging (Full Load 5W)	ASK
2	Wireless Charging (Full Load 10W)	ASK
3	Wireless Charging (Full Load 15W)	ASK
Note: Full load, half load and light load have been considered in different wireless charging power, and only the worst case was recorded in the report.		

4. Configuration of EUT



5. Modification of EUT

No modifications are made to the EUT during all test items.

6. Description of Support Device

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Brand	M/N	S/N	Cable Specification	Remarks
1.	Wireless Charging Load	Consumer Electronics	2S	N/A	N/A	Provided by the Lab.
2.	Adapter	---	P0013	K27F8 Q5L051 46	Input: AC 200-240V-50/60Hz, 1.2A Output: USB-C: 5V=3A or 9V=3A Max or 10V=4A Max or 15V=2.66A Max or 20V=2A Max USB-A: 5V=3A or 10V=4A Max or 20V.=2A Max Input: AC 100-130V-50/60Hz, 1.2A Output: USB-C: 5V=3A or 9V=2A Max or 10V=2.25A Max or 15V=1.5A Max or 20V.m1A Max USB-A: 5V=3A or 10V=2.25A Max or 20V.=1A Max	Provided by the Lab.

7. Deviations and Abnormalities from Standard Conditions

No additions, deviations and exclusions from the standard.

8. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 1, 1.1310

KDB 680106 D01v04

9. Measurement Uncertainty

No.	Test Item	Uncertainty	Remarks
1.	Magnetic Field Emissions	± 0.15 dB	---
2.	Electric Field Emissions	± 0.36 dB	---

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

10. Maximum Permissible Exposure

LIMIT

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
1500-100,00	/	/	1.0	30

F=frequency in MHz

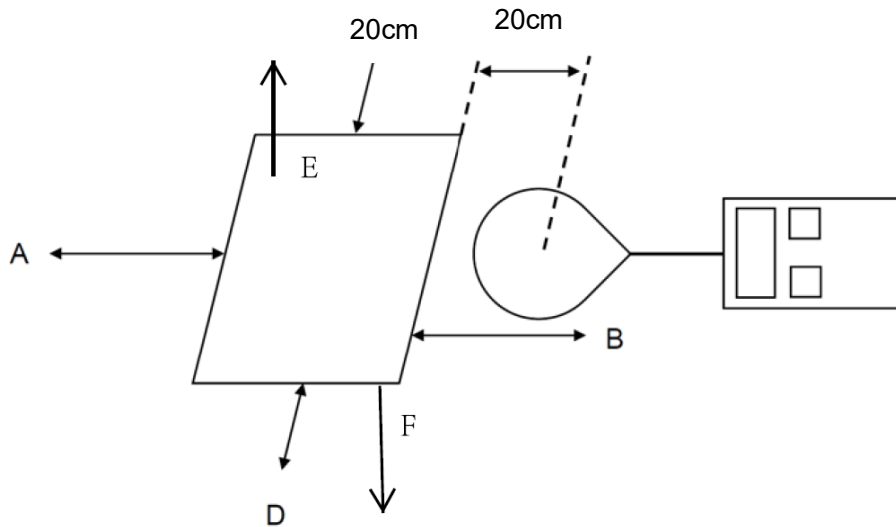
*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz: 614V/m,1.63A/m).

Per KDB 680106 D01 v04, RF exposure evaluation at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit. Emission between 50 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 1.63/Am and aggregate H-field strengths from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

BLOCK DIAGRAM OF TEST SETUP

For Mobile:



Note: The distance of the points A/B/C/D/E is 20cm.

TEST PROCEDURES

- The EUT was placed on a non-conductive table top of shielding room or anechoic chamber, and the ancillary equipment (e.g., mobile phone, dummy loads) was placed on the EUT for charging.
- Maximum E-field and H-field measurements were tested at 20cm from each side of the EUT.
- Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength and record the results.
- Repeat the steps a~c on each test modes and configurations until the end of the test.

TEST RESULTS

PASS

Please refer to the following pages.

Test frequency: 110.1-150.1KHz

Test Mode 1					
Test Distance (cm)	Test Position	Mobile Measure Result (V/m)	Mobile Measure Result (A/m)	Limit (V/m)	Limit (A/m)
20	Side A	1.546	0.26	614	0.815
	Side B	2.134	0.24	614	0.815
	Side C	3.129	0.22	614	0.815
	Side D	2.448	0.49	614	0.815
	Side E	4.913	0.41	614	0.815
Test Mode 2					
20	Side A	1.552	0.26	614	0.815
	Side B	2.151	0.25	614	0.815
	Side C	3.142	0.23	614	0.815
	Side D	2.462	0.50	614	0.815
	Side E	4.925	0.42	614	0.815
Test Mode 3					
20	Side A	1.570	0.27	614	0.815
	Side B	2.190	0.25	614	0.815
	Side C	3.173	0.23	614	0.815
	Side D	2.485	0.50	614	0.815
	Side E	4.938	0.42	614	0.815

Test frequency: 360.670KHz

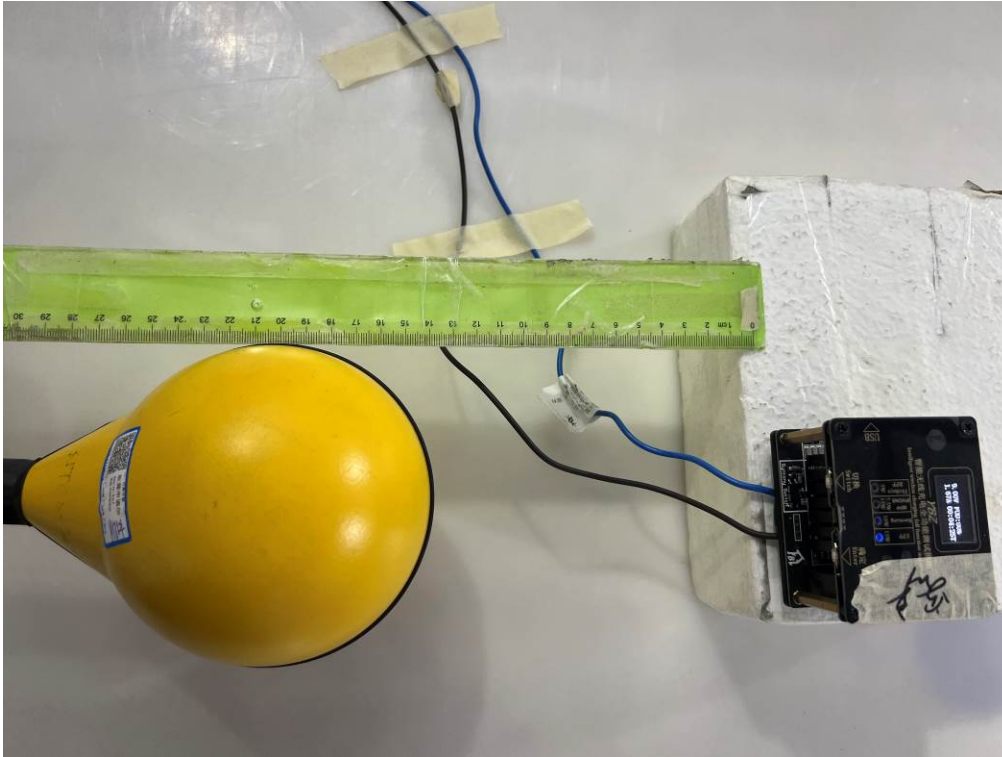
Test Mode 3					
Test Distance (cm)	Test Position	Mobile Measure Result (V/m)	Mobile Measure Result (A/m)	Limit (V/m)	Limit (A/m)
20	Side A	1.586	0.27	614	0.815
	Side B	2.189	0.25	614	0.815
	Side C	3.158	0.23	614	0.815
	Side D	2.456	0.51	614	0.815
	Side E	4.958	0.43	614	0.815

11. Test Equipment List

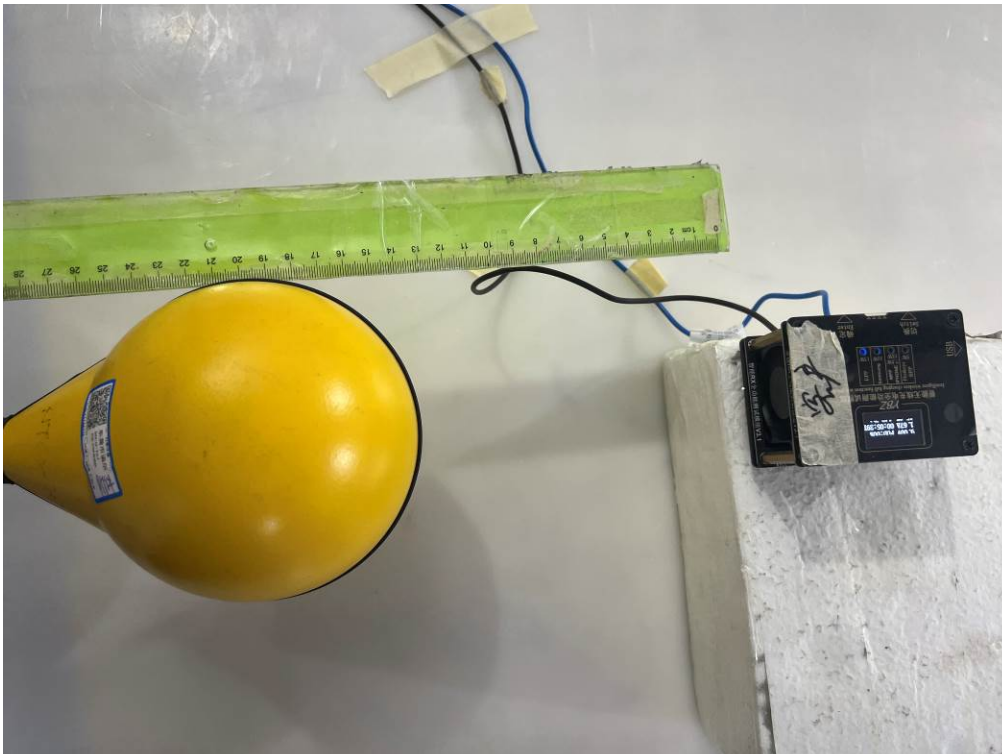
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Magnetic field probe	Narda	ELT-400	O-167	Aug. 19, 2025	1 Year
2.	E-Field Probe	Narda	EP-601	611WX70729	Aug. 19, 2025	1 Year

12. Test Photos

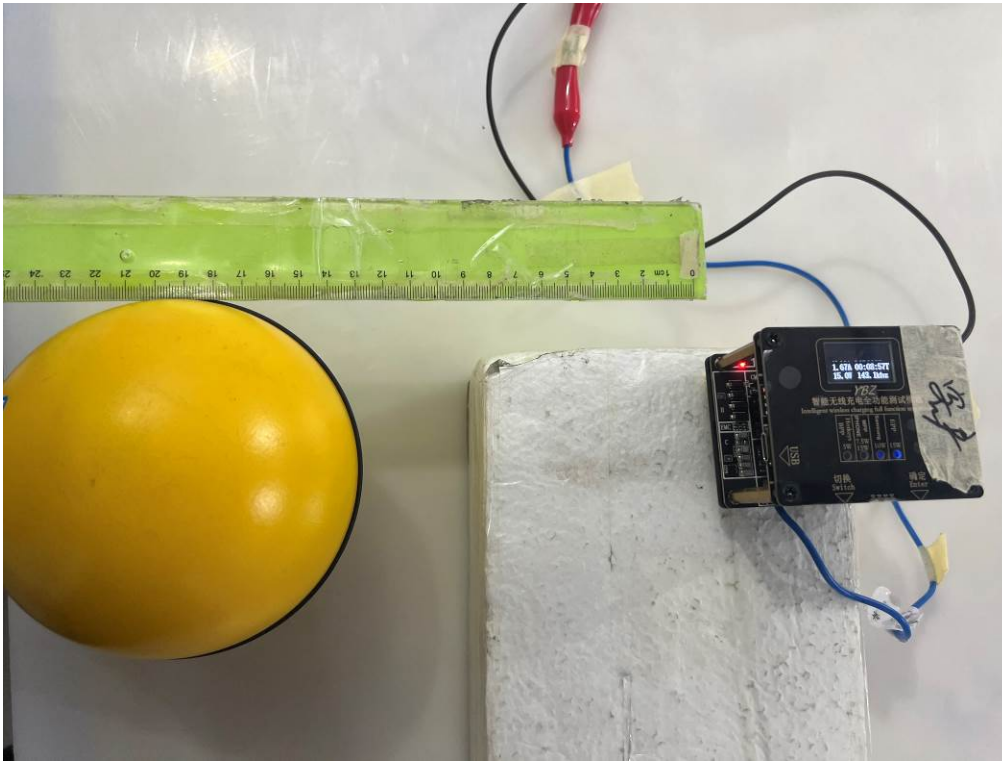
Side A: Test distance 20cm



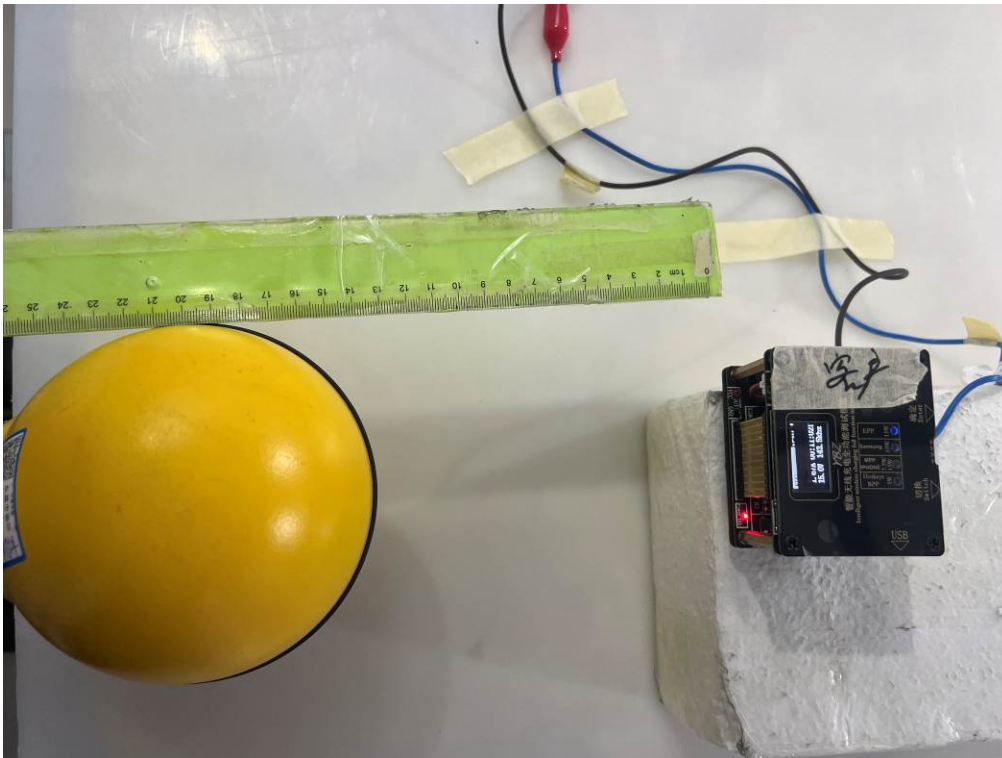
Side B: Test distance 20cm



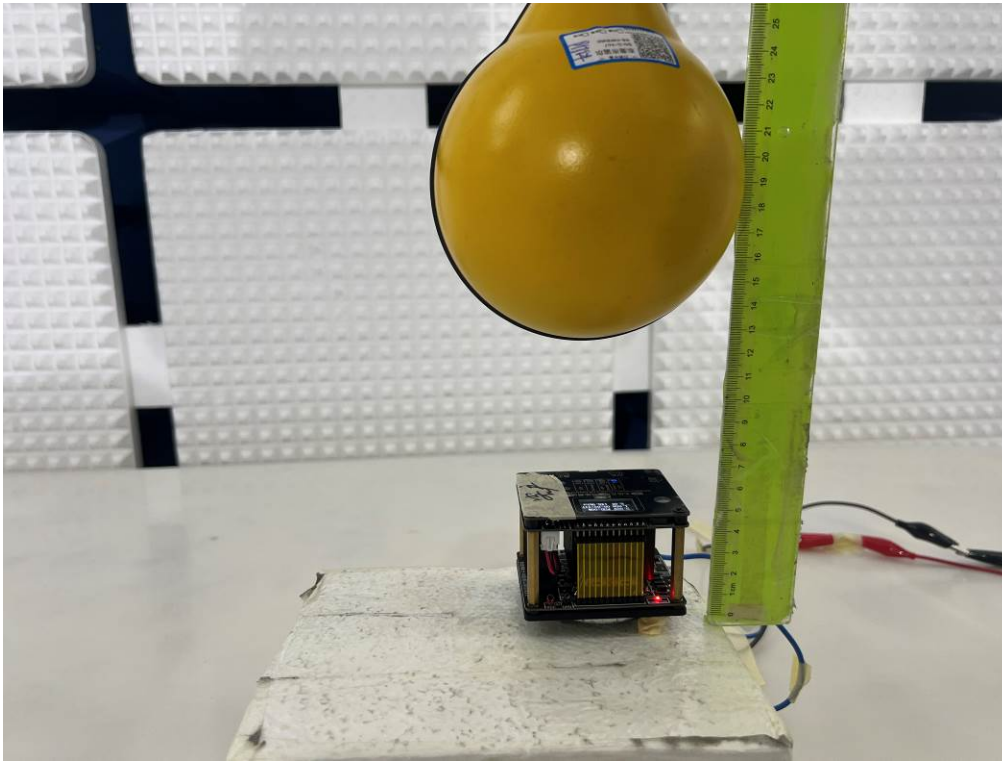
Side C: Test distance 20cm



Side D: Test distance 20cm



Side E: Test distance 20cm



---End---