

Prüfbericht-Nr.: <i>Test report no.:</i>	CN229XTU 001	Auftrags-Nr.: <i>Order no.:</i>	168377830	Seite 1 von 27 <i>Page 1 of 27</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2022-06-17	
Auftraggeber: <i>Client:</i>	Shandong Kangtai Industry Co.,Ltd. #389,Jincheng Road Zhaoyuan 265400, Shandong City, China			
Prüfgegenstand: <i>Test item:</i>	Wireless charging module			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	KT-10W-24V			
Auftrags-Inhalt: <i>Order content:</i>	Type test			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart C Section 15.215			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2022-07-11	Refer to photos document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003295820-002			
Prüfzeitraum: <i>Testing period:</i>	2022-07-28 - 2022-07-29			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	 Jonathan Li		genehmigt von: <i>authorized by:</i>	 Winni Hou
Datum: <i>Date:</i>	2022-08-19		Ausstellungsdatum: <i>Issue date:</i>	2022-08-19
Stellung / Position	Sachverständige(r) / Expert		Stellung / Position	Sachverständige(r) / Expert
Sonstiges / Other:	FCC ID: 2A78H-KT10W24V			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>			
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 99% BANDWIDTH

RESULT: Pass

5.1.3 20dB BANDWIDTH

RESULT: Pass

5.1.4 RADIATED SPURIOUS EMISSION

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huangguan Road Middle, Longhua District, Shenzhen 518110, China

FCC Registration No.: CN1260

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing				
Description	Manufacturer	Model	Serial No.	Cal. Until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2022-09-28
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2022-09-28
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2022-09-28
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A
Unwanted Emission Testing				
Description	Manufacturer	Model	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR 7	102021	2022-08-10
Signal Analyzer	R&S	FSV 40	101439	2022-08-09
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2022-08-09
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2022-08-09
Amplifier	R&S	SCU-18F	180070	2022-08-09
Amplifier	R&S	SCU40A	100475	2022-08-09
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2022-08-08
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2022-08-08
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2022-08-08
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2022-09-13
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-06-22

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

Parameter	Uncertainty (k=2)
Occupied Channel Bandwidth	$\pm 2.08 \%$
All emissions, radiated	$\pm 4.17 \text{ dB}$

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huangguan Road Middle, Longhua District, Shenzhen 518110, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The product is a **wireless charging module** which supports wireless charging function.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Wireless charging module
Type Designation	KT-10W-24V
FCC ID	2A78H-KT10W24V
Operating Voltage	DC 12~36V
Technical Specification of WPT	
Operating Frequency	111-205KHz
Modulation	FSK
Antenna Type	Induction Coil Antenna
Antenna Gain	0 dBi
Antenna number	1
Wireless Charger output power	10W Maximum

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless charging
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form

- PCB Layout

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 & 6. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all test were applied on model **KT-10W-24V**

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Dummy Load	YBZ	N/A	N/A	N/A
DC power Supply	Topward	3303D	809332	0-30 Volts, 0-3 Amps

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

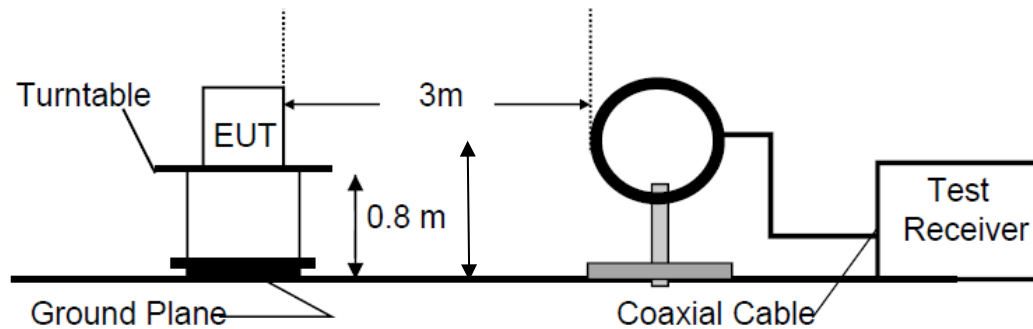
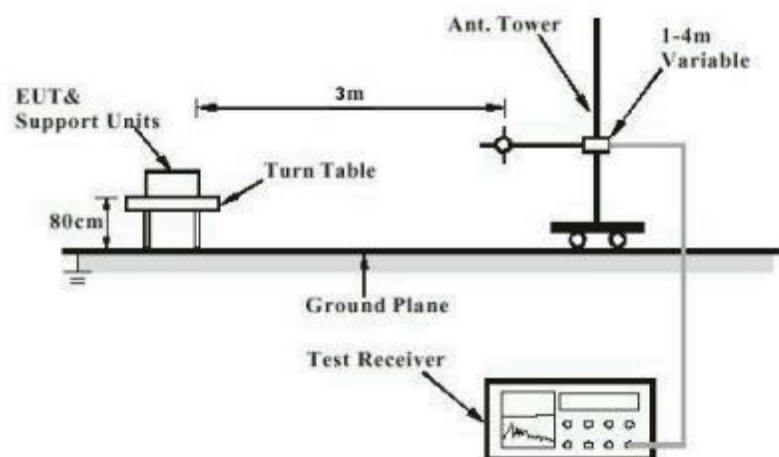


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : Part 15.203

According to the manufacturer declared, the EUT has one internal antenna, and the antenna is permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 99% Bandwidth

RESULT:

Pass

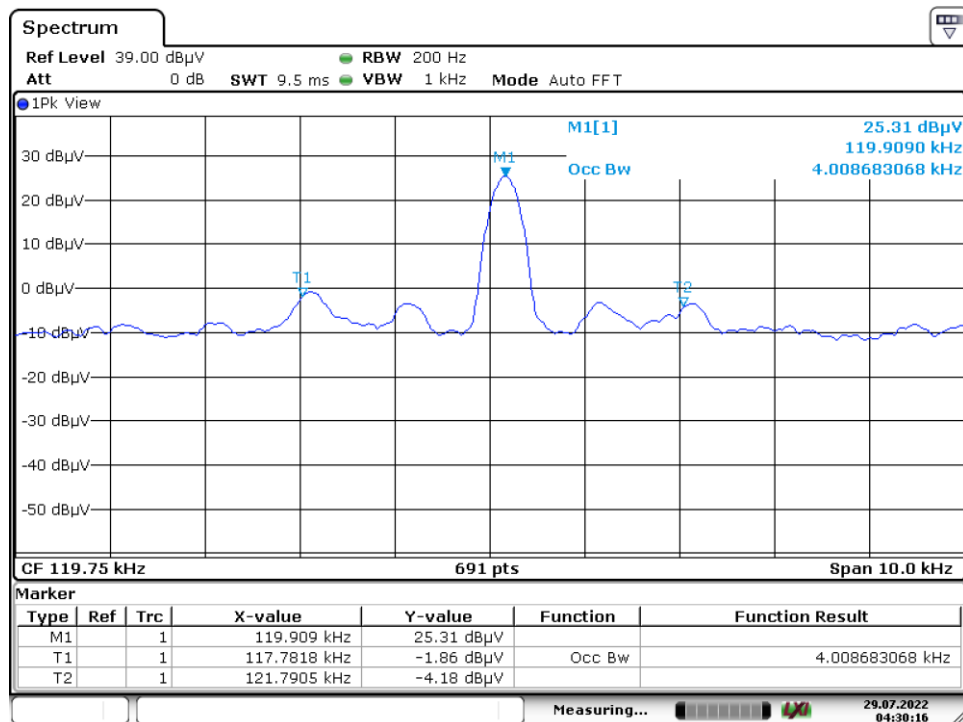
Test Specification

Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-07-29
Input voltage : DC 24V by DC source
Operation mode : A
Ambient temperature : 24.2 °C
Relative humidity : 53 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the following test plots.



Date: 29.JUL.2022 04:30:16

5.1.3 20dB Bandwidth

RESULT:

Pass

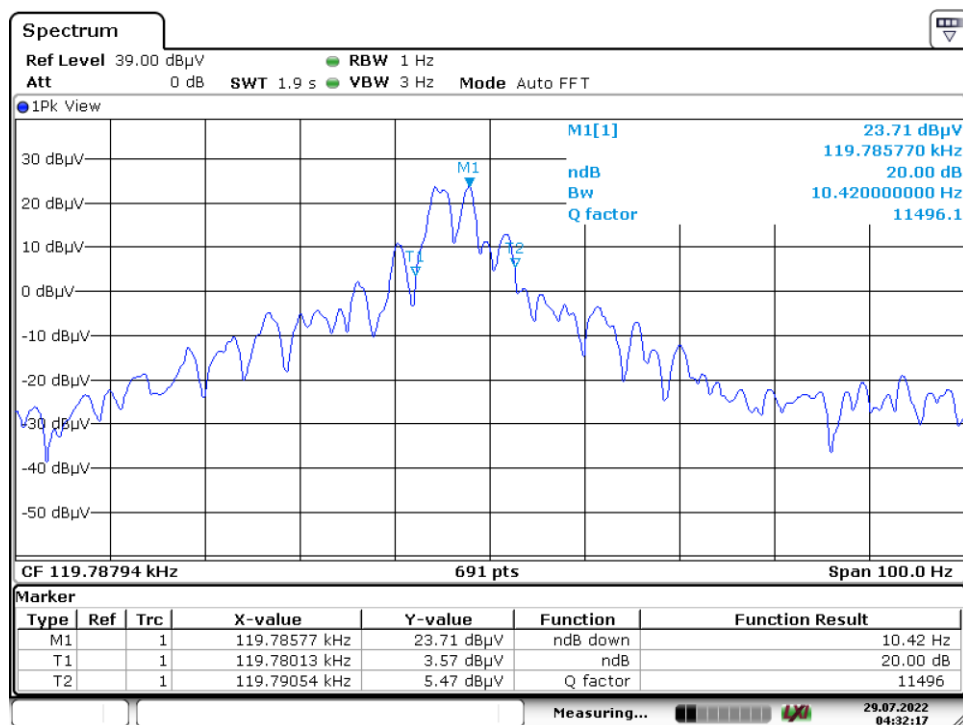
Test Specification

Test standard : FCC Part 15.215(c)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-07-29
Input voltage : DC 24V by DC source
Operation mode : A
Ambient temperature : 24.2 °C
Relative humidity : 53 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the following test plots.



Date: 29.JUL.2022 04:32:17

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5.1.4 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.209 & 15.205
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a)
Kind of test site	: 3m Semi-anechoic Chamber

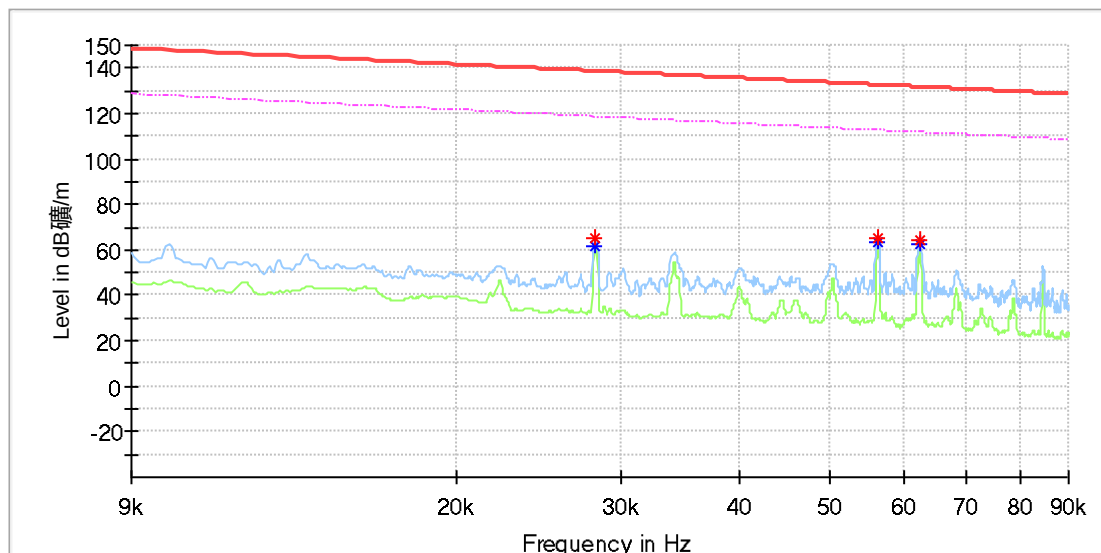
Test Setup

Date of testing	: 2022-07-28 to 2022-07-29
Input voltage	: DC 24V by DC source
Operation mode	: A
Ambient temperature	: 23 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Refer to following test plots for details of test result.

EUT Information

EUT Name: Wireless charging module
Model: KT-10W-24V
Test Mode: Charging
Order No/Sample No: 168377830/A003295820-002
Test Voltage: DC 24V From DC Source
Remark: Temp 23 Humi:56%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin

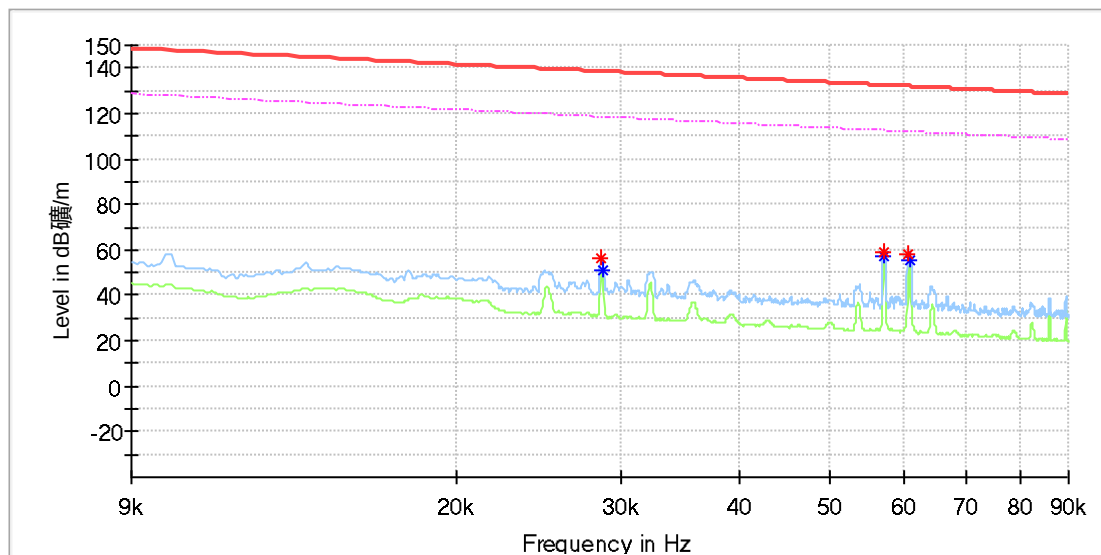


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.028151	64.78	---	138.60	73.82	100.0	X	176.0	20.0
0.028151	---	61.96	118.60	56.64	100.0	X	176.0	20.0
0.056327	64.77	---	132.58	67.81	100.0	X	176.0	20.0
0.056385	---	63.14	112.57	49.43	100.0	X	176.0	20.0
0.062344	64.54	---	131.70	67.16	100.0	X	176.0	20.0
0.062344	---	62.21	111.70	49.48	100.0	X	176.0	20.0

EUT Information

EUT Name: Wireless charging module
Model: KT-10W-24V
Test Mode: Charging
Order No/Sample No: 168377830/A003295820-002
Test Voltage: DC 24V From DC Source
Remark: Temp 23 Humi:56%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin

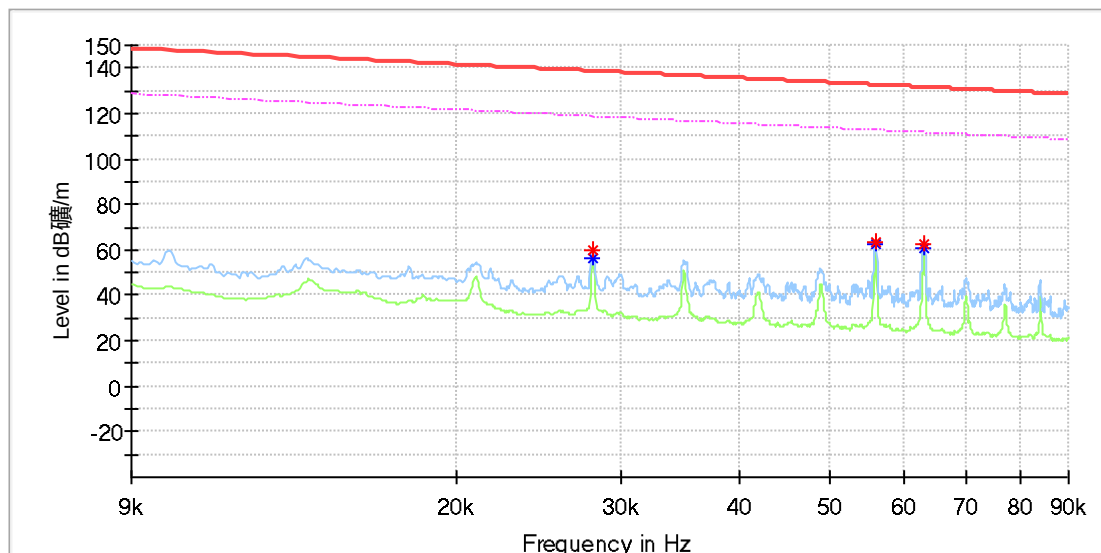


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.028556	56.45	---	138.48	82.02	100.0	Y	257.0	20.0
0.028614	---	51.16	118.46	67.30	100.0	Y	257.0	20.0
0.057253	58.88	---	132.44	73.55	100.0	Y	257.0	20.0
0.057253	---	57.00	112.44	55.44	100.0	Y	257.0	20.0
0.060782	58.34	---	131.92	73.57	100.0	Y	257.0	20.0
0.060840	---	55.81	111.91	56.10	100.0	Y	257.0	20.0

EUT Information

EUT Name: Wireless charging module
Model: KT-10W-24V
Test Mode: Charging
Order No/Sample No: 168377830/A003295820-002
Test Voltage: DC 24V From DC Source
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Test Standard: FCC Part 15C
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Reviewed By: Terry Yin

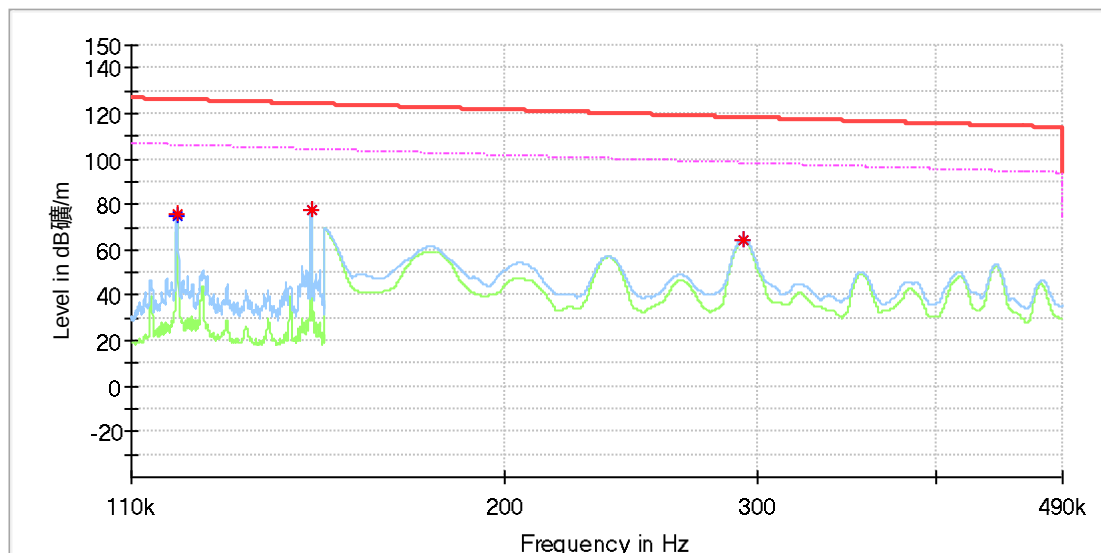


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.027919	60.30	---	138.67	78.38	100.0	Z	194.0	20.0
0.027977	---	56.68	118.65	61.98	100.0	Z	194.0	20.0
0.055980	63.32	---	132.63	69.31	100.0	Z	194.0	20.0
0.055980	---	62.14	112.63	50.49	100.0	Z	194.0	20.0
0.062981	62.60	---	131.61	69.01	100.0	Z	194.0	20.0
0.062981	---	60.84	111.61	50.77	100.0	Z	194.0	20.0

EUT Information

EUT Name: Wireless charging module
Model: KT-10W-24V
Test Mode: Charging
Order No/Sample No: 168377830/A003295820-002
Test Voltage: DC 24V From DC Source
Remark: Temp 23 Humi:56%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin

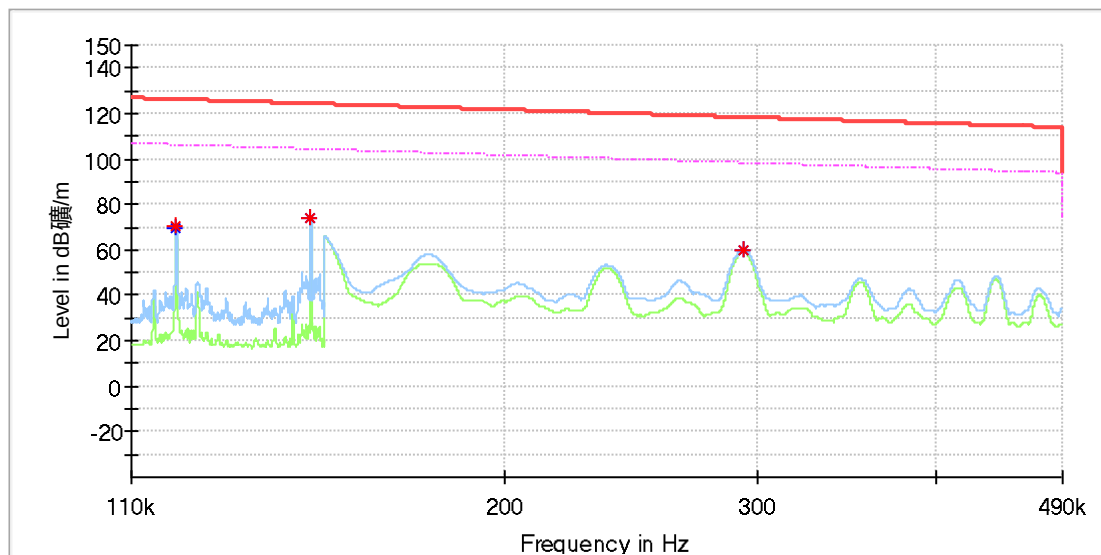


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.118372	75.58	---	126.13	50.56	100.0	X	201.0	20.0
0.118372	---	74.75	106.13	31.38	100.0	X	201.0	20.0
0.146771	77.46	---	124.27	46.81	100.0	X	125.0	20.0
0.146771	---	77.32	104.27	26.95	100.0	X	125.0	20.0
0.293600	64.70	---	118.25	53.55	100.0	X	69.0	20.0
0.293650	---	63.91	98.25	34.34	100.0	X	69.0	20.0

EUT Information

EUT Name: Wireless charging module
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Order No/Sample No: 168377830/A003295820-002
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Test Standard: FCC Part 15C
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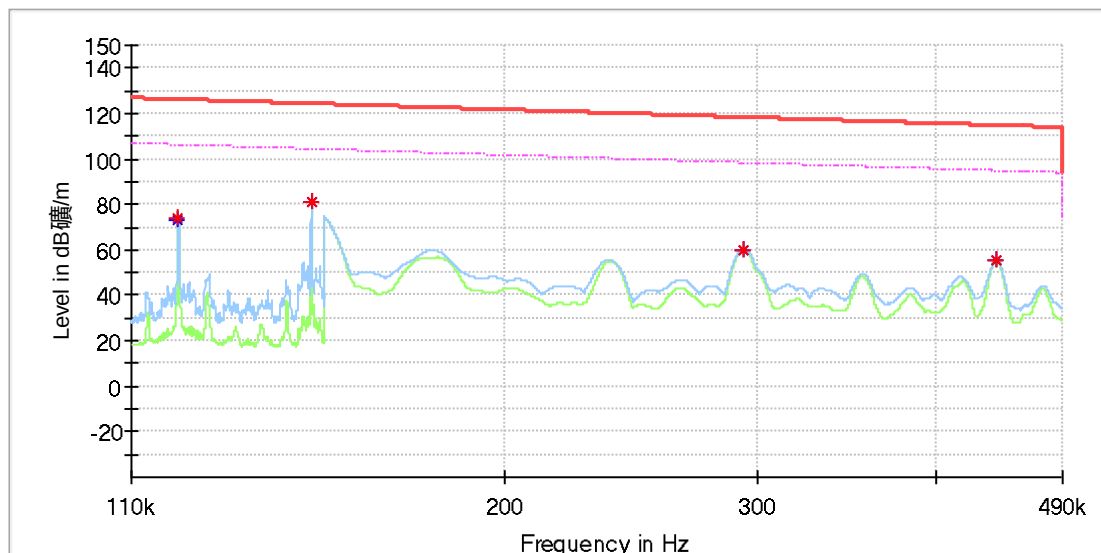


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.118172	70.49	---	126.15	55.66	100.0	Y	253.0	20.0
0.118200	---	69.93	106.15	36.21	100.0	Y	253.0	20.0
0.146714	74.40	---	124.27	49.87	100.0	Y	151.0	20.0
0.146714	---	74.09	104.27	30.17	100.0	Y	151.0	20.0
0.293550	---	59.44	98.25	38.81	100.0	Y	146.0	20.0
0.293700	60.03	---	118.24	58.22	100.0	Y	146.0	20.0

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Test Voltage: DC 24V From DC Source
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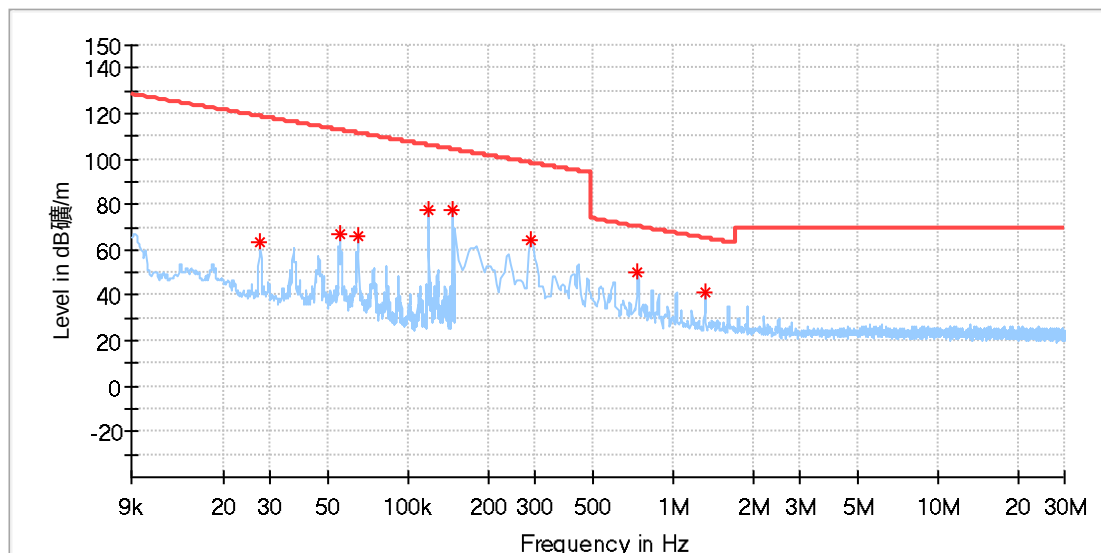


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.118629	74.12	---	126.11	52.00	100.0	Z	215.0	20.0
0.118629	---	72.73	106.11	33.38	100.0	Z	215.0	20.0
0.146857	81.02	---	124.26	43.24	100.0	Z	70.0	20.0
0.146857	---	80.72	104.26	23.54	100.0	Z	70.0	20.0
0.293750	---	59.98	98.24	38.26	100.0	Z	66.0	20.0
0.293800	60.28	---	118.24	57.96	100.0	Z	66.0	20.0
0.440650	55.54	---	114.72	59.18	100.0	Z	66.0	20.0
0.440650	---	55.13	94.72	39.59	100.0	Z	66.0	20.0

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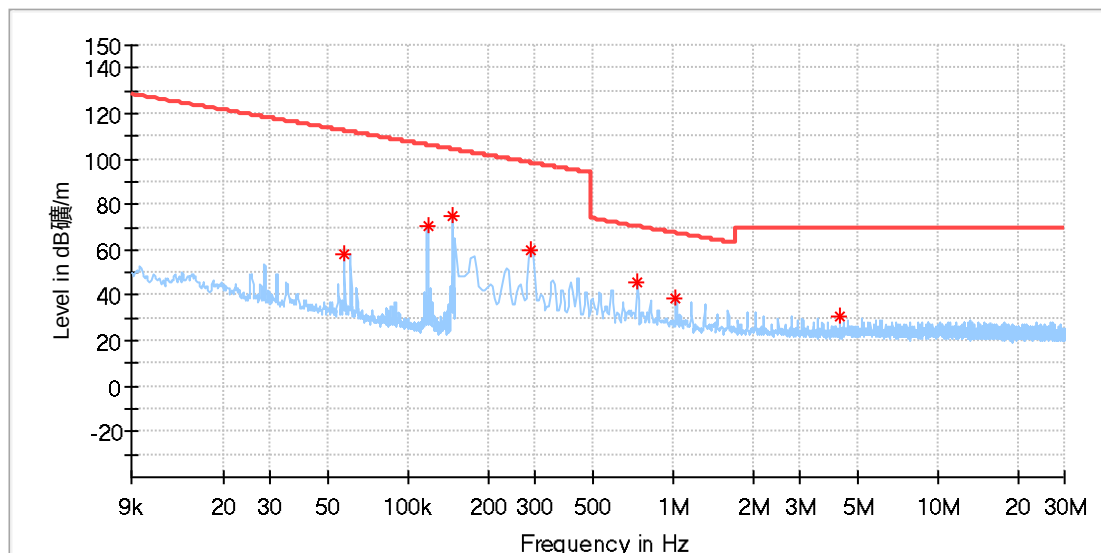


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.027531	63.61	118.79	55.19	100.0	X	195.0	20.1
0.055127	67.26	112.77	45.51	100.0	X	200.0	20.1
0.064393	66.33	111.42	45.09	100.0	X	195.0	20.1
0.119584	77.14	106.04	28.90	100.0	X	195.0	20.1
0.147180	77.37	104.24	26.87	100.0	X	110.0	20.1
0.290471	63.95	98.34	34.39	100.0	X	83.0	20.1
0.733831	50.23	70.30	20.08	100.0	X	104.0	20.1
1.322052	41.40	65.20	23.80	100.0	X	63.0	20.1

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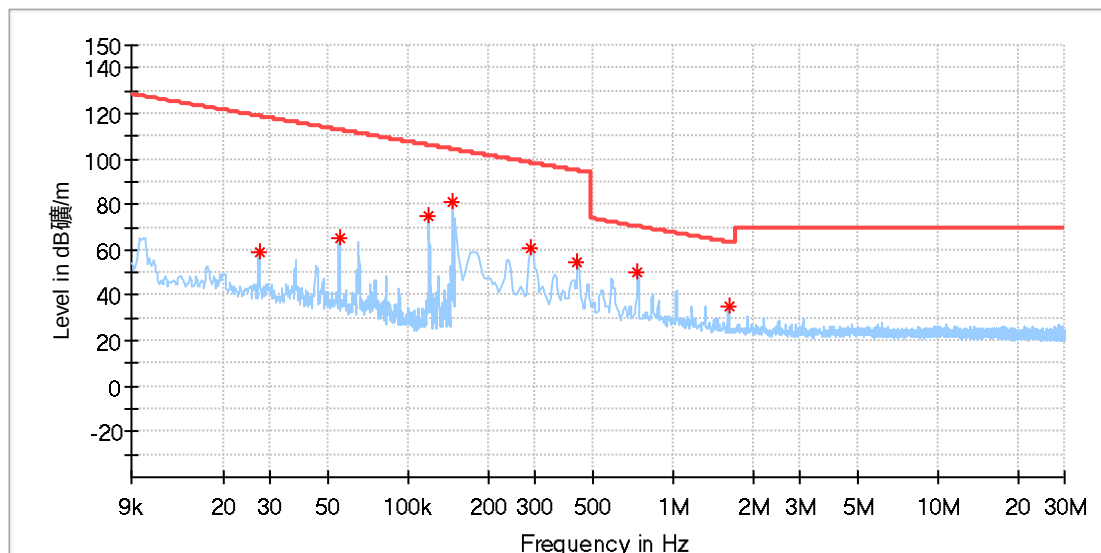


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.057444	58.53	112.41	53.88	100.0	Y	237.0	20.1
0.117973	70.29	106.16	35.87	100.0	Y	246.0	20.1
0.146676	74.45	104.27	29.82	100.0	Y	150.0	20.1
0.290471	60.21	98.34	38.13	100.0	Y	156.0	20.1
0.733831	45.97	70.30	24.34	100.0	Y	142.0	20.1
1.023552	38.93	67.42	28.49	100.0	Y	138.0	20.1
4.249985	30.61	69.50	38.89	100.0	Y	172.0	20.3

EUT Information

EUT Name: Wireless charging module
Model: KT-10W-24V
Test Mode: Charging
Order No/Sample No: 168377830/A003295820-002
Test Voltage: DC 24V From DC Source
Remark: Temp 23 Humi:56%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

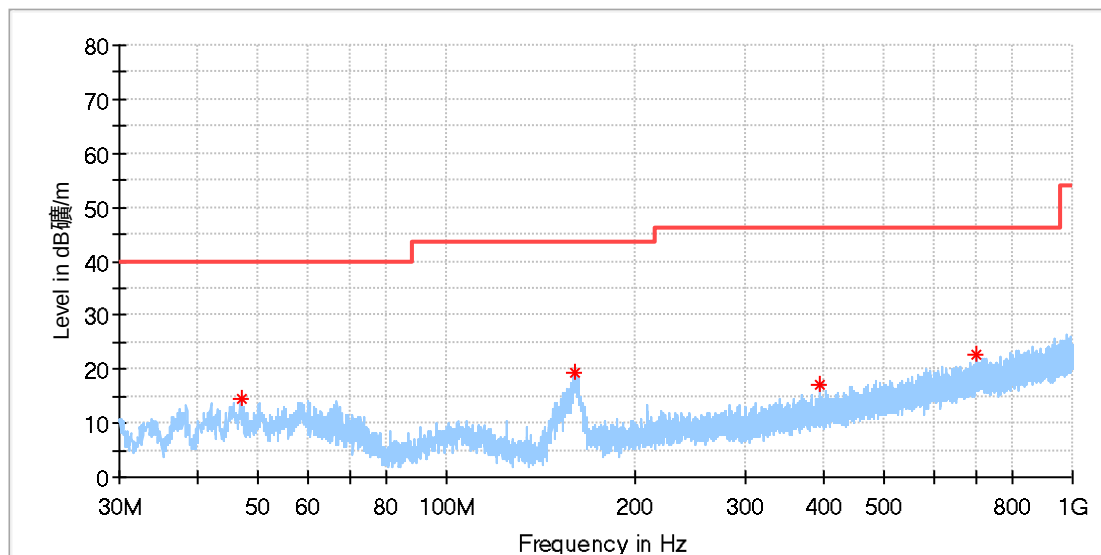
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.027431	58.98	118.83	59.84	100.0	Z	186.0	20.1
0.054825	65.05	112.81	47.77	100.0	Z	197.0	20.1
0.119685	75.10	106.04	30.93	100.0	Z	197.0	20.1
0.147180	80.94	104.24	23.30	100.0	Z	64.0	20.1
0.290471	60.32	98.34	38.02	100.0	Z	67.0	20.1
0.435331	54.32	94.83	40.51	100.0	Z	54.0	20.1
0.733831	50.38	70.30	19.93	100.0	Z	63.0	20.1
1.616162	35.27	63.46	28.20	100.0	Z	43.0	20.2

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EUT Information

EUT Name:	Wireless charging module
Model:	KT-10W-24V
Test Mode:	Charging
Order No/Sample No:	168377830/A003295820-002
Test Voltage:	DC 24V From DC Source
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

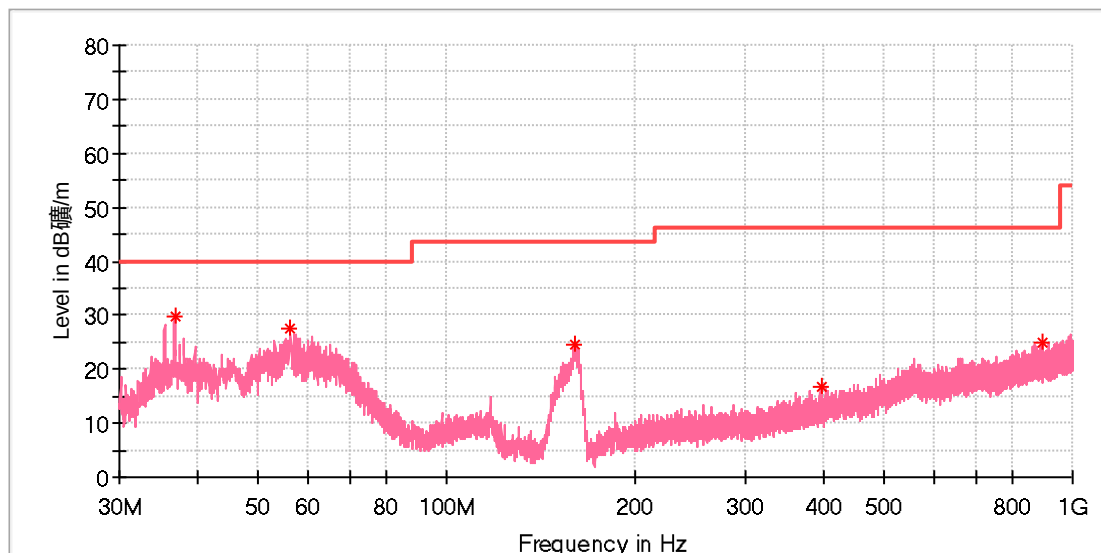


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.900385	14.45	40.00	25.55	100.0	H	225.0	-18.8
160.278462	19.53	43.50	23.97	100.0	H	57.0	-22.0
393.750000	17.26	46.00	28.74	100.0	H	234.0	-14.3
701.426539	22.65	46.00	23.35	100.0	H	66.0	-8.4

EUT Information

EUT Name:	Wireless charging module
Model:	KT-10W-24V
Test Mode:	Charging
Order No/Sample No:	168377830/A003295820-002
Test Voltage:	DC 24V From DC Source
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.752692	29.80	40.00	10.20	100.0	V	152.0	-21.5
56.339231	27.60	40.00	12.40	100.0	V	100.0	-18.9
160.838077	24.70	43.50	18.80	100.0	V	0.0	-22.0
395.951154	16.89	46.00	29.11	100.0	V	346.0	-14.2
897.776923	25.04	46.00	20.96	100.0	V	291.0	-5.4

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

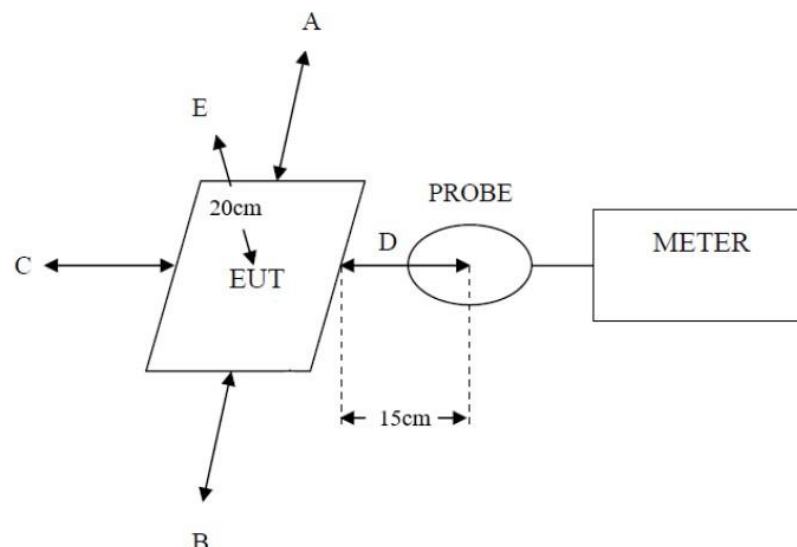
Test standard : CFR47 FCC Part 2: Subpart J Section 1.1310
FCC CFR 47 Part 1(1.1310) KDB 680106 D01 v03

According to the table 1 of FCC Part 2.1310, the reference limit as below:

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 Exposure				
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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

Test Setup:



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Table: H-Field Strength at 0 cm from the edges and surface of the EUT

EUT Test Mode	Measured H-Field Strength Values (A/m)					50% Limit (A/m)	Limit (A/m)	Result
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E			
Device working at the maximum power	0.2208	0.2312	0.2336	0.2248	0.2232	0.815	1.63	Pass

7 Photographs of the Test Set-Up

Refer to test photo document.

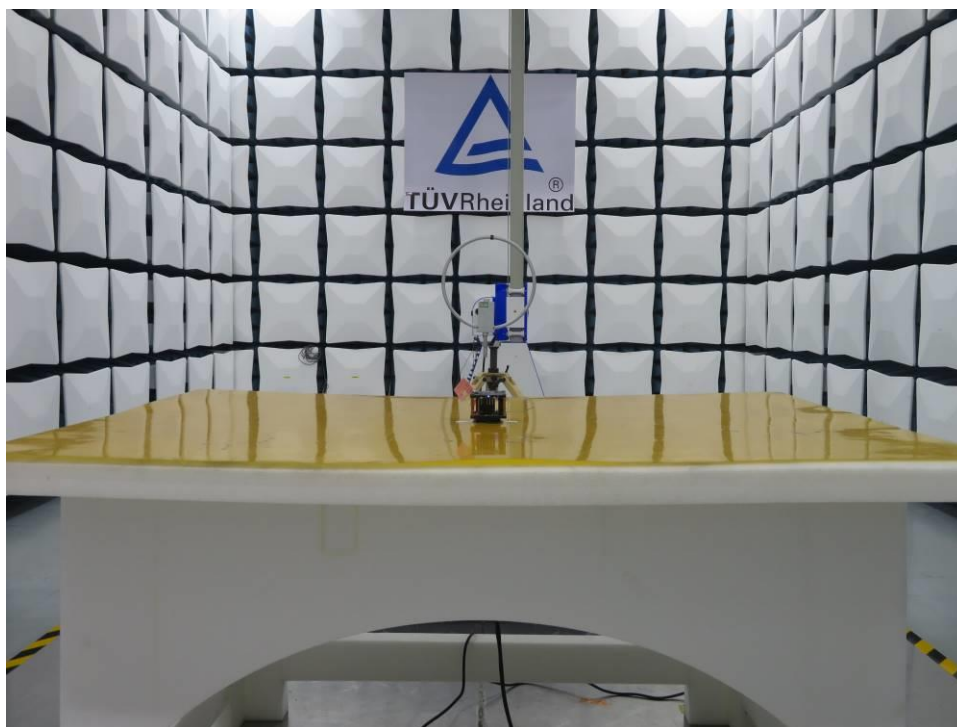
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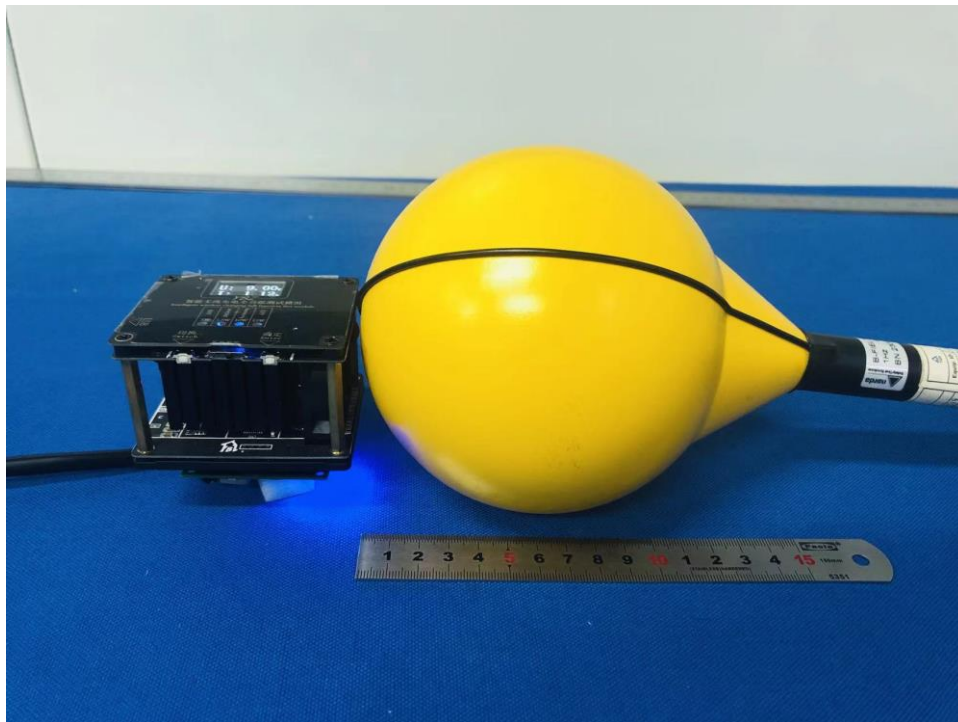
Photograph 1: Set-up photo for Radiated Spurious Emission, 9KHz - 30MHz



Photograph 2: Set-up photo for Radiated Spurious Emission, 30MHz - 1GHz



Photograph 3: Set-up photo for RF Exposure



-----THE END-----