

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT**

OF

100W 2-in-1 GaN Desktop Fast Charger

Model No.: CD342

FCC ID: 2AQI5-CD342A

Report No.: E04A24080223F01201

Issue Date: November 13, 2024

Prepared for

Ugreen Group Limited

**UGREEN Building, Longcheng Industrial Park Longguanxi Road,
Longhua ShenZhen, China**

Prepared by

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523808**

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Guangdong Global Testing Technology Co., Ltd.**

VERIFICATION OF COMPLIANCE**Applicant Information**

Company Name: Ugreen Group Limited
Address: UGREEN Building, Longcheng Industrial Park Longguanxi Road, Longhua ShenZhen, China

Manufacturer Information

Company Name: Ugreen Group Limited
Address: UGREEN Building, Longcheng Industrial Park Longguanxi Road, Longhua ShenZhen, China

Factory Information

Company Name: DONGGUAN ORIENTAL HERO ELE. FTY.
Address: Zhaiwu Industrial Zone, Liuwu Village, Shijie Town, Dongguan City, Guangdong Province

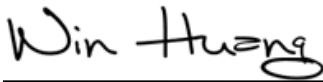
EUT Information

Product Description: 100W 2-in-1 GaN Desktop Fast Charger
Model: CD342
Series Model: N/A
Brand: UGREEN
P/N code: The P/N code 90905, 90905P, 90905X, 90905A, 90905B, 90905U, 90905JP on marking plate represents market demand.
Sample Received Date: August 09, 2024
Sample Status: Normal
Sample ID: A24080223 012
Date of Tested: August 10, 2024 to August 15, 2024

We hereby certify that:

The above equipment was tested by Guangdong Global Testing Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.209(2022).

Prepared By:



Win Huang

Project Engineer

Checked By:



Alan He

Laboratory Leader

Approved By:



Shawn Wen

Laboratory Manager



Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E04A24080223F01201

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1 General Information

1.1 Product Description

Characteristics	Description
Product Name	100W 2-in-1 GaN Desktop Fast Charger
Model number	CD342
Operation Mode	Wireless Charging
Input Rating	100-240V~, 50/60Hz, 1.8A Max
Power Supply	120V/60Hz
Operating Frequency	127.8KHz for 5W/7.5W 360KHz for 15W
Wireless Charging Power	15W Max.
Modulation Technique	ASK
Antenna Type	Coil Antenna
Software version	V1.0
Hardware version	V1.0

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2AQI5-CD342A filing to comply with the FCC Part 15, Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

1.6 Test Facility

Accreditation Certificate	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.
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Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

2 System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the fixed in a particular direction according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

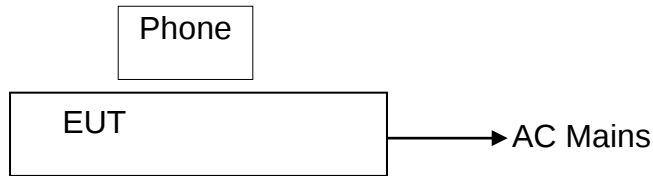


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	100W 2-in-1 GaN Desktop Fast Charger	UGREEN	CD342	2AQI5-CD342A	<i>EUT</i>
2.	phone	Apple	A2176	N/A	<i>Support Equipment</i>

Note:

- (1) Unless otherwise denoted as EUT in 『Remark』 column, device(s) used in tested system is a support equipment.

3 Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207	AC Power Conducted Emission	Compliant
§15.209	Radiated Emission	Compliant
§2.1049	20dB Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

4 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
20dB Bandwidth	$\pm 9.2\text{ppm}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 3\%$

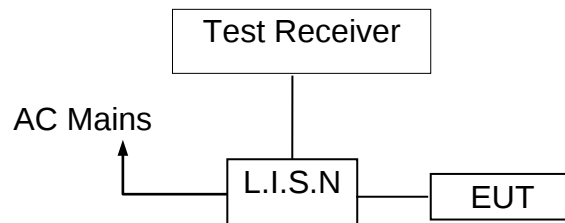
Remark: The coverage Factor ($k=2$), and measurement Uncertainty for a level of Confidence of 95%

5 Conducted Emissions Test

5.1 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2024/09/13	2025/09/12
LISN/AMN	Rohde & Schwarz	ENV216	102843	2024/09/13	2025/09/12
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2024/09/13	2025/09/12
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

5.4 Conducted Emission Limit

Conducted Emission

Frequency(MHz)

0.15-0.5

0.5-5.0

5.0-30.0

Quasi-peak

66-56

56

60

Average

56-46

46

50

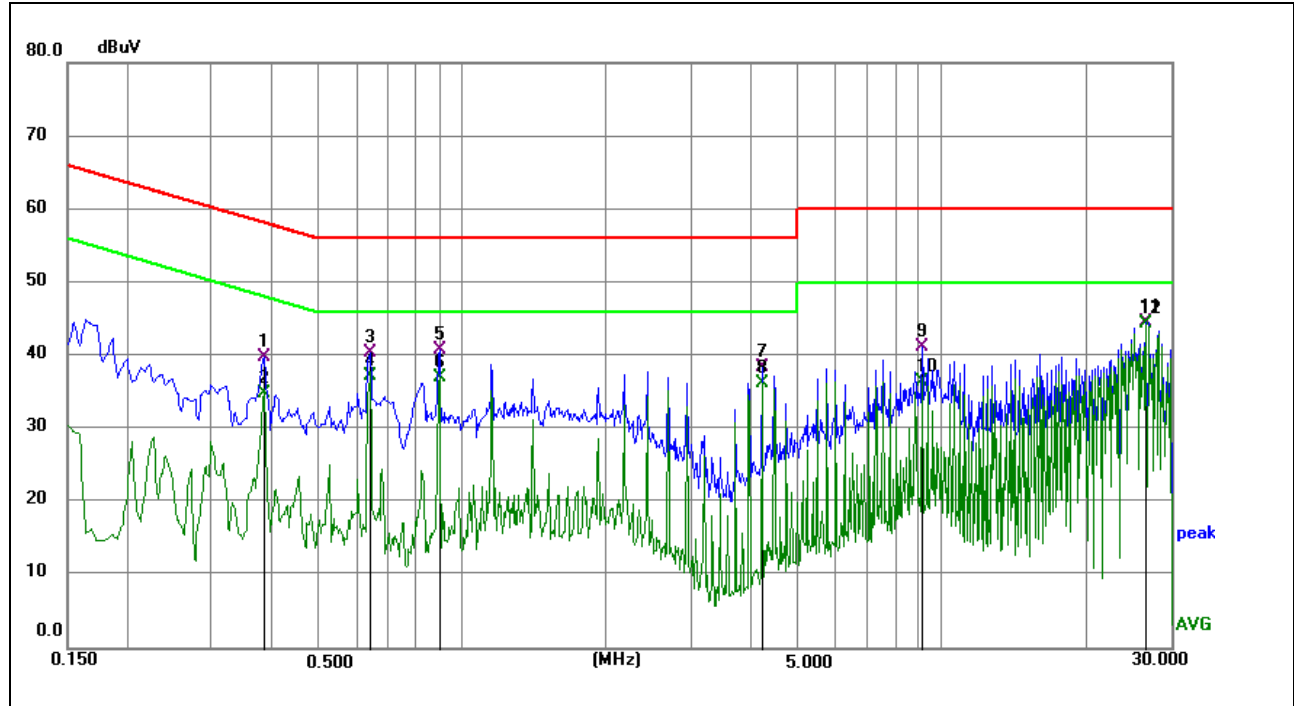
Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.5 Measurement Result

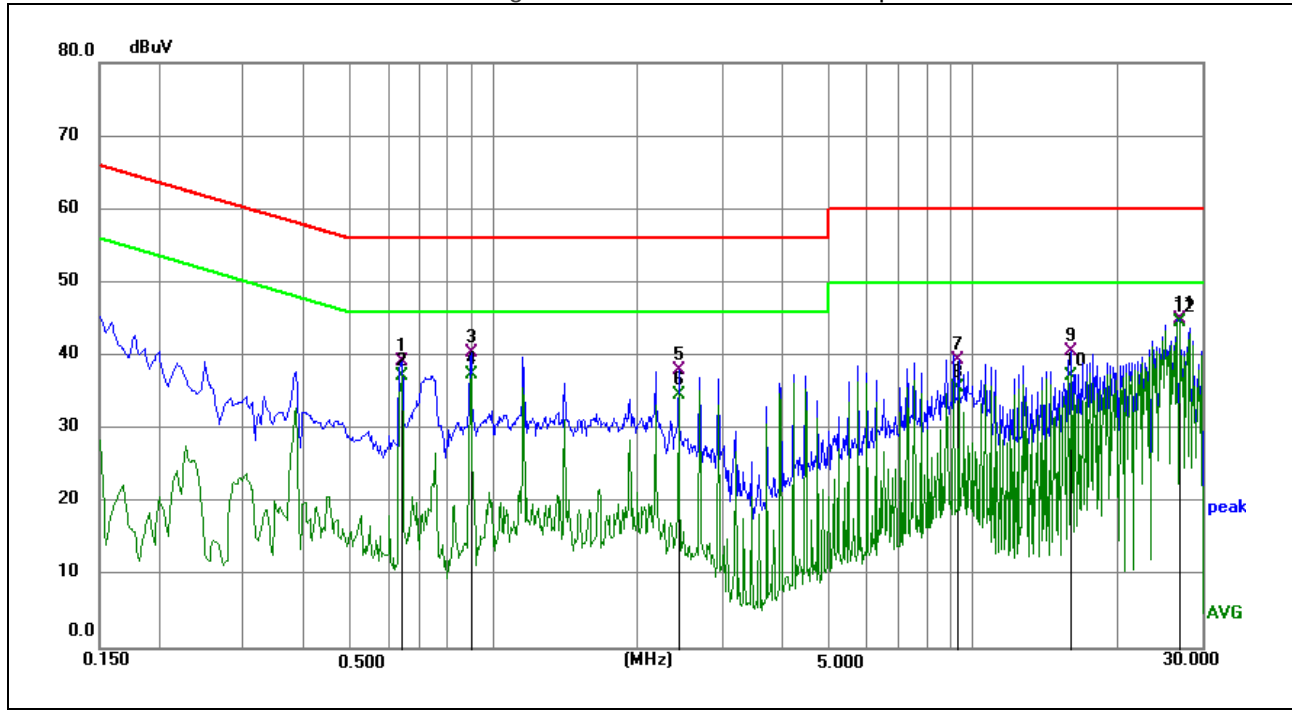
Operation Mode:	TX	Test Date :	2024/8/10
Frequency Range:	0.15MHz~30MHz	Temperature :	23.5℃
Test Result:	PASS	Humidity :	54 %RH
Test By:	Fink		

We pretested modes (Wireless Charging(15W), Wireless Charging (7.5W) , Wireless Charging(5W)) for EUT. The worst test data see follow the table.

Test mode: Wireless Charging 7.5W

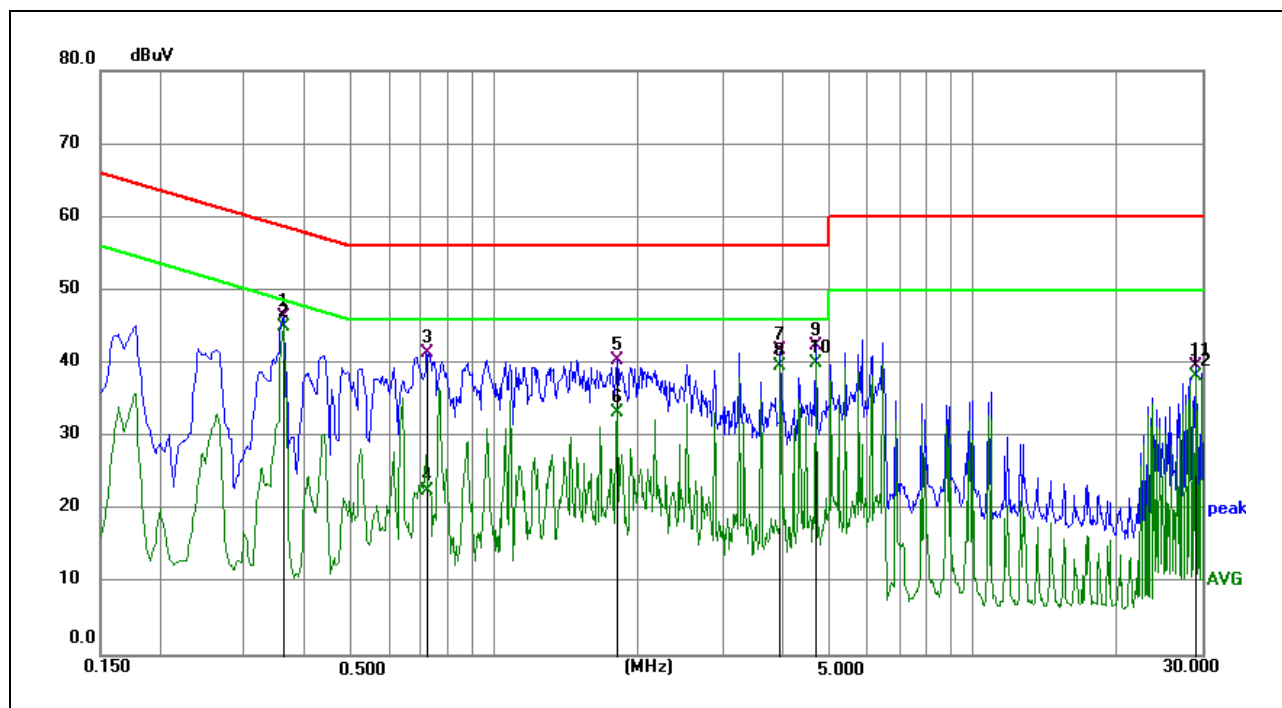
Limit:	FCC Part 15 C Conduction	Phase: L
Mode:	Wireless Charging 7.5W	

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.3840	29.87	9.87	39.74	58.19	-18.45	QP	
2	0.3840	24.92	9.87	34.79	48.19	-13.40	AVG	
3	0.6405	30.39	9.95	40.34	56.00	-15.66	QP	
4	0.6405	27.36	9.95	37.31	46.00	-8.69	AVG	
5	0.8970	30.69	10.05	40.74	56.00	-15.26	QP	
6	0.8970	27.02	10.05	37.07	46.00	-8.93	AVG	
7	4.2180	28.18	10.22	38.40	56.00	-17.60	QP	
8	4.2180	25.97	10.22	36.19	46.00	-9.81	AVG	
9	9.0780	30.33	10.87	41.20	60.00	-18.80	QP	
10	9.0780	25.62	10.87	36.49	50.00	-13.51	AVG	
11	26.5920	33.45	11.10	44.55	60.00	-15.45	QP	
12	26.5920	33.17	11.10	44.27	50.00	-5.73	AVG	



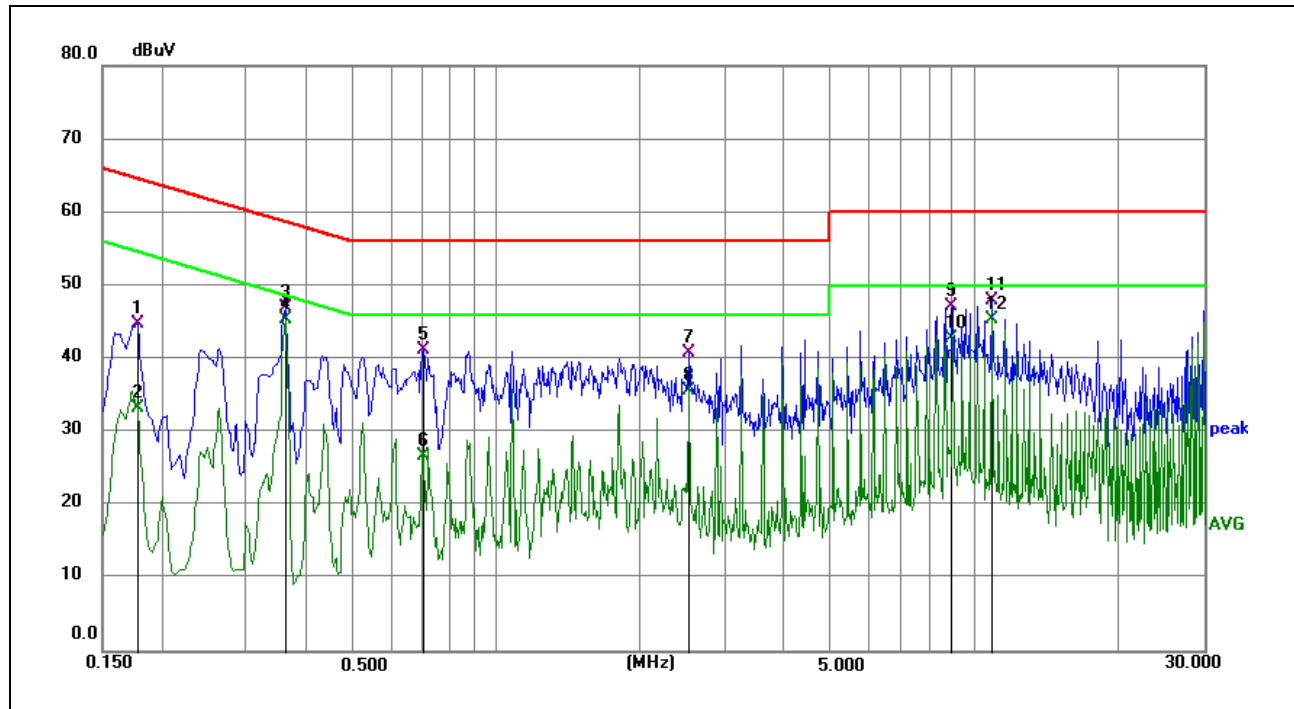
Limit: FCC Part 15 C Conduction Phase: N
 Mode: Wireless Charging 7.5W

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.6405	29.24	10.02	39.26	56.00	-16.74	QP	
2	0.6405	27.27	10.02	37.29	46.00	-8.71	AVG	
3	0.8970	30.26	10.05	40.31	56.00	-15.69	QP	
4	0.8970	27.32	10.05	37.37	46.00	-8.63	AVG	
5	2.4270	27.89	10.20	38.09	56.00	-17.91	QP	
6	2.4270	24.40	10.20	34.60	46.00	-11.40	AVG	
7	9.3344	28.63	10.85	39.48	60.00	-20.52	QP	
8	9.3344	24.70	10.85	35.55	50.00	-14.45	AVG	
9	15.9810	29.67	11.02	40.69	60.00	-19.31	QP	
10	15.9810	26.16	11.02	37.18	50.00	-12.82	AVG	
11	26.8485	33.87	11.17	45.04	60.00	-14.96	QP	
12	26.8485	33.35	11.17	44.52	50.00	-5.48	AVG	

Test mode: Wireless Charging 15W

Limit:	FCC Part 15 C Conduction	Phase: L
Mode:	Wireless Charging 15W	

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.3614	36.56	9.77	46.33	58.70	-12.37	QP	
2	0.3614	35.26	9.77	45.03	48.70	-3.67	AVG	
3	0.7304	31.60	9.84	41.44	56.00	-14.56	QP	
4	0.7304	12.74	9.84	22.58	46.00	-23.42	AVG	
5	1.8015	30.61	9.83	40.44	56.00	-15.56	QP	
6	1.8015	23.46	9.83	33.29	46.00	-12.71	AVG	
7	3.9615	31.88	9.81	41.69	56.00	-14.31	QP	
8	3.9615	29.71	9.81	39.52	46.00	-6.48	AVG	
9	4.6814	32.64	9.81	42.45	56.00	-13.55	QP	
10	4.6814	30.10	9.81	39.91	46.00	-6.09	AVG	
11	29.1615	29.56	9.97	39.53	60.00	-20.47	QP	
12	29.1615	28.32	9.97	38.29	50.00	-11.71	AVG	



Limit:	FCC Part 15 C Conduction	Phase: N
Mode:	Wireless Charging 15W	

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1770	34.88	9.89	44.77	64.63	-19.86	QP	
2	0.1770	23.42	9.89	33.31	54.63	-21.32	AVG	
3	0.3615	37.06	9.82	46.88	58.69	-11.81	QP	
4	0.3615	35.57	9.82	45.39	48.69	-3.30	AVG	
5	0.7035	31.28	9.90	41.18	56.00	-14.82	QP	
6	0.7035	16.83	9.90	26.73	46.00	-19.27	AVG	
7	2.5215	30.74	9.99	40.73	56.00	-15.27	QP	
8	2.5215	25.55	9.99	35.54	46.00	-10.46	AVG	
9	9.0014	36.12	11.08	47.20	60.00	-12.80	QP	
10	9.0014	31.63	11.08	42.71	50.00	-7.29	AVG	
11	10.8015	36.29	11.57	47.86	60.00	-12.14	QP	
12	10.8015	33.76	11.57	45.33	50.00	-4.67	AVG	

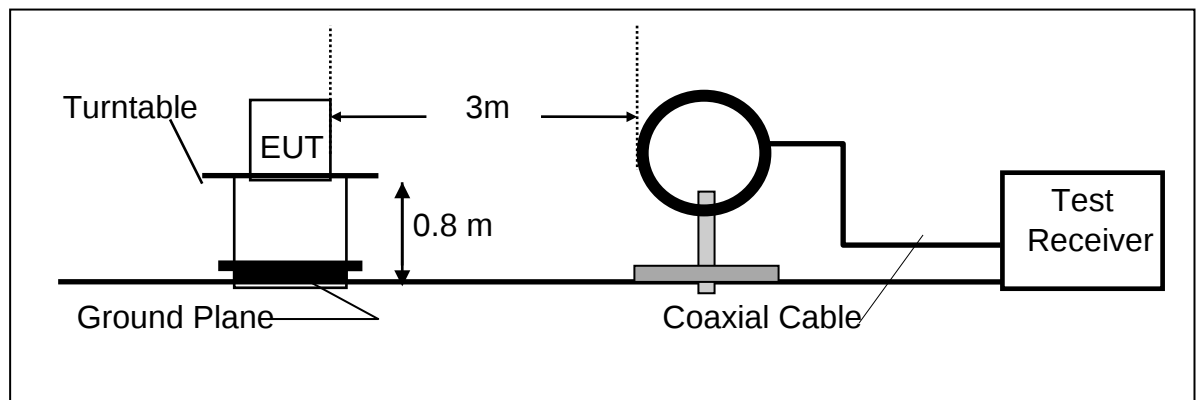
6 Radiated Emission Test

6.1 Measurement Procedure

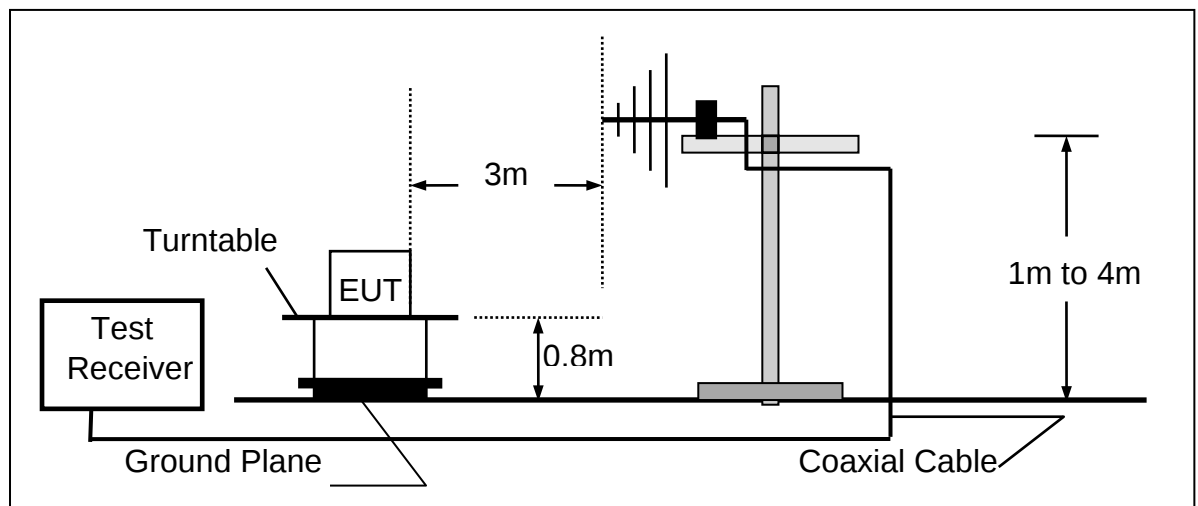
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



6.3 Measurement Equipment Used

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2024/09/13	2025/09/12
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2024/09/13	2025/09/12
Pre-Amplifier	HzEMC	HPA-9K0130	HYP A21001	2024/09/13	2025/09/12
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09
Biconilog Antenna	ETS	3142E	00243646	2022/03/23	2025/03/22
Loop Antenna	ETS	6502	243668	2022/03/30	2025/03/29
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

6.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	$2400 / F(\text{KHz})$	300m	$10000 * 2400/F(\text{KHz})$	$20\log 2400/F(\text{KHz}) + 80$
0.490 – 1.705	$24000 / F(\text{KHz})$	30m	$100 * 24000/F(\text{KHz})$	$20\log 24000/F(\text{KHz}) + 40$
1.705 – 30.00	30	30m	$100 * 30$	$20\log 30 + 40$
30.0 – 88.0	100	3m	100	$20\log 100$
88.0 – 216.0	150	3m	150	$20\log 150$
216.0 – 960.0	200	3m	200	$20\log 200$
Above 960.0	500	3m	500	$20\log 500$

15.205 Restricted bands of operation

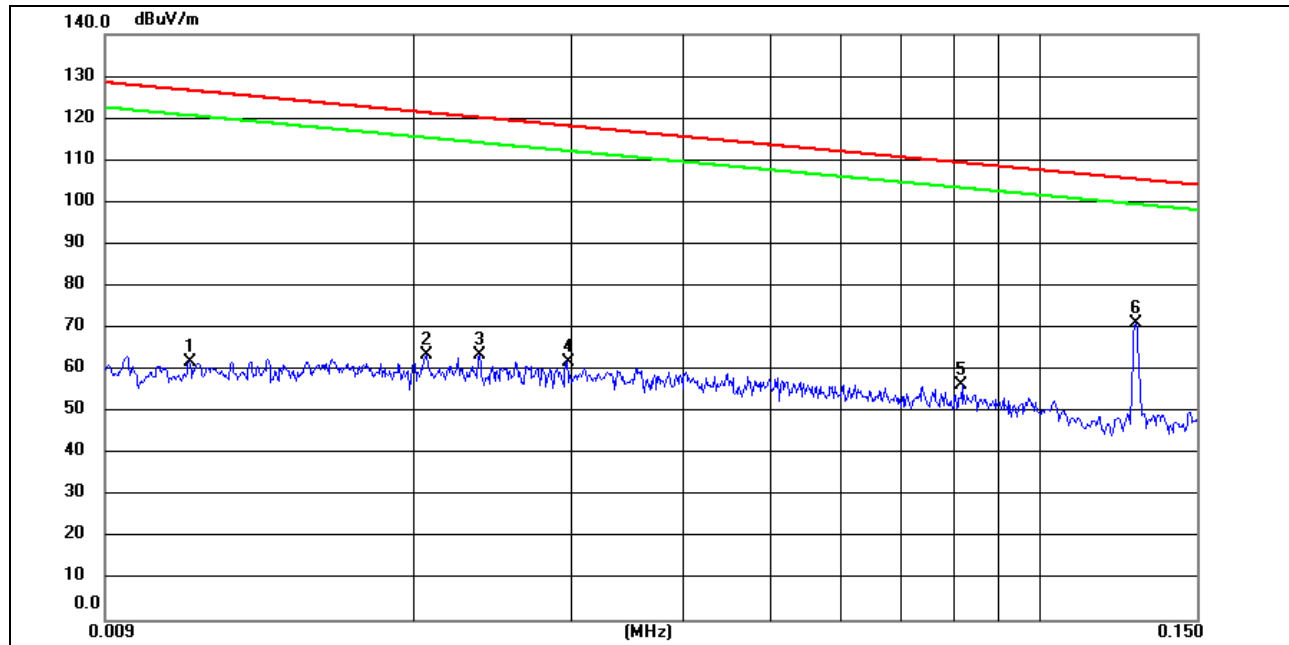
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

Remark: 1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

6.5 Measurement Result

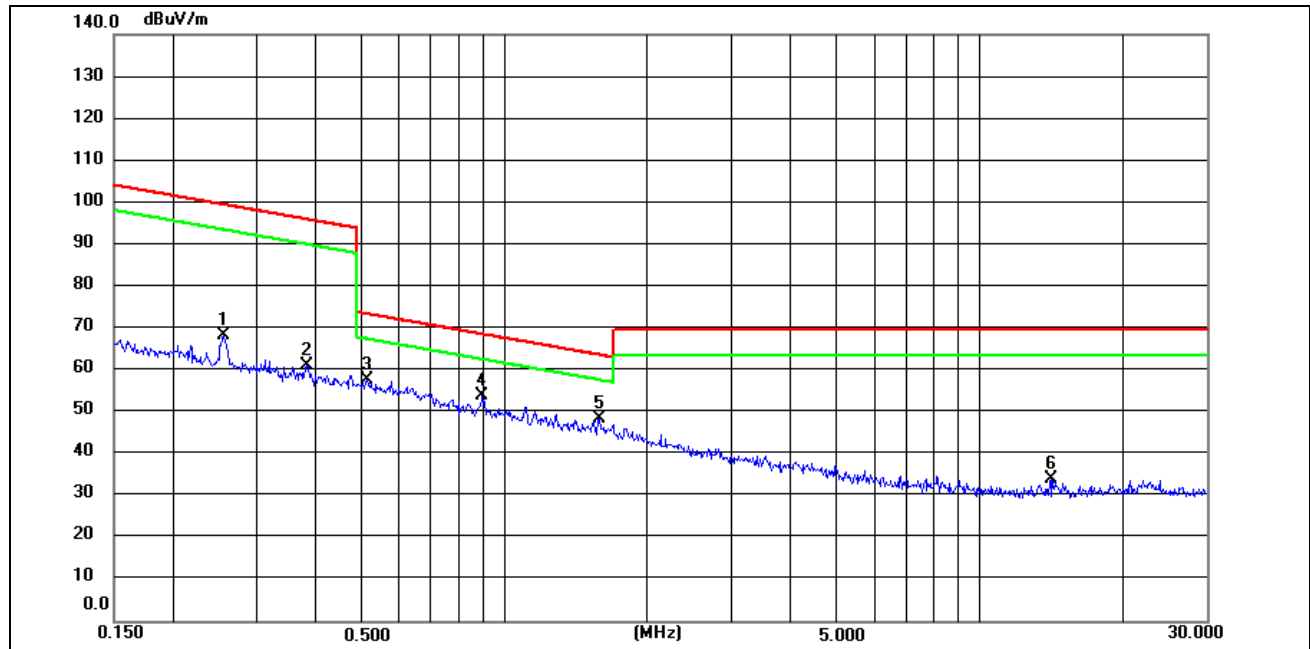
Operation Mode: TX Test Date : 2024/8/10
 Frequency Range: 9KHz~30MHz Temperature : 23.5℃
 Test Result: PASS Humidity : 54 %RH
 Test By: Fink

We pretested modes (Wireless Charging(15W), Wireless Charging (7.5W), Wireless Charging(5W)) for EUT. The worst mode (Wireless Charging (15W) and Wireless Charging (7.5W) test data see follow the table.



Limit:	FCC Part 15C 3m Radiation	Antenna:	coaxial
Mode:	Wireless Charging 7.5W	Power Rating:	AC 120V/60Hz
Test Engineer:	Fink		

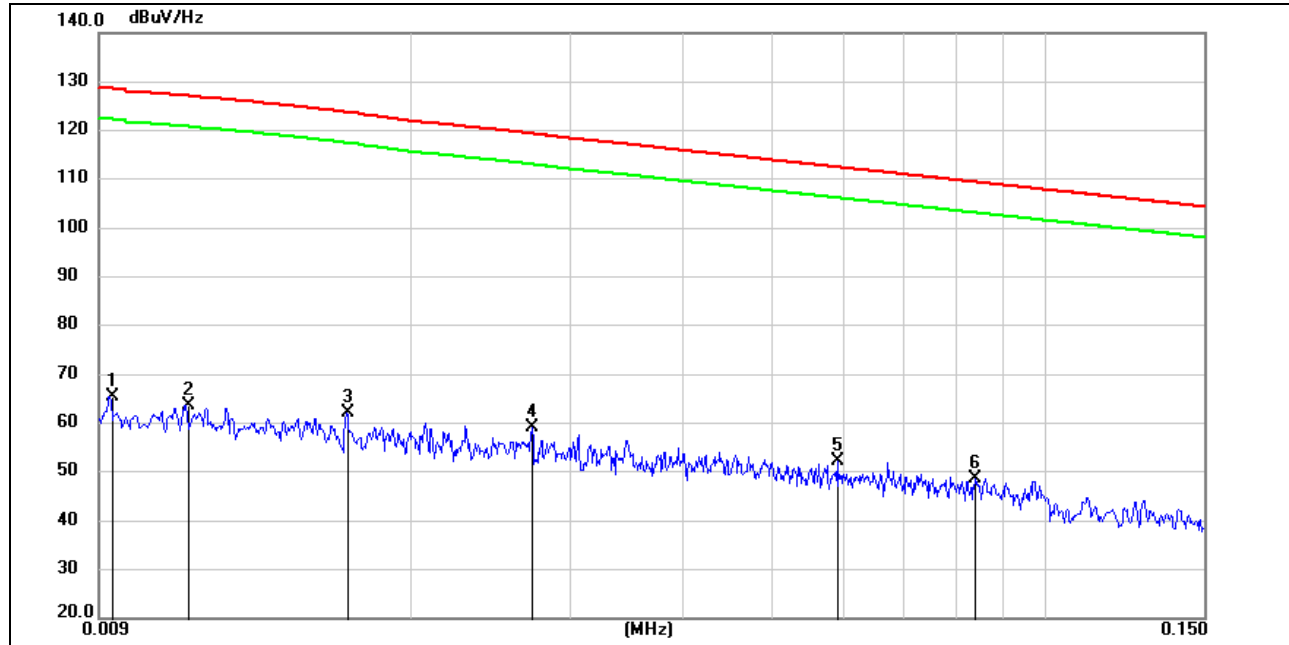
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.0112	41.24	20.42	61.66	126.60	-64.94	peak	
2	0.0206	43.09	20.28	63.37	121.31	-57.94	peak	
3	0.0236	43.10	20.24	63.34	120.13	-56.79	peak	
4	0.0296	41.63	20.15	61.78	118.16	-56.38	peak	
5	0.0819	36.63	19.70	56.33	109.33	-53.00	peak	
6	0.1281	51.40	19.63	71.03	105.45	-34.42	peak	



Limit: FCC Part 15C 3m Radiation
Mode: Wireless Charging 7.5W
Test Engineer: Fink

Antenna: coaxial
Power Rating: AC 120V/60Hz

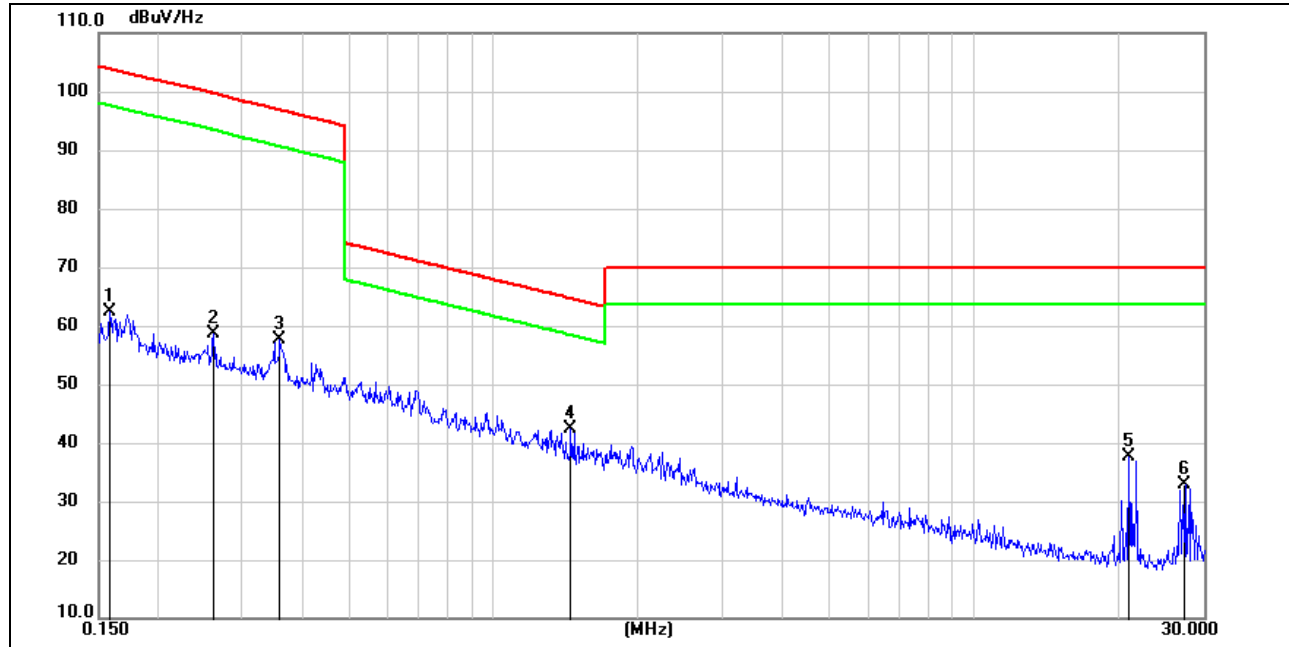
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.2548	48.70	19.63	68.33	99.48	-31.15	peak	
2	0.3832	41.59	19.60	61.19	95.93	-34.74	peak	
3	0.5101	38.10	19.59	57.69	73.45	-15.76	peak	
4	0.8944	34.57	19.47	54.04	68.59	-14.55	peak	
5	1.5766	28.81	19.50	48.31	63.68	-15.37	peak	
6	14.0629	13.71	20.34	34.05	69.50	-35.45	peak	



Limit: FCC Part 15C 3m Radiation
Mode: Wireless Charging 7.5W
Test Engineer: Fink

Antenna: coplanar
Power Rating: AC 120V/60Hz

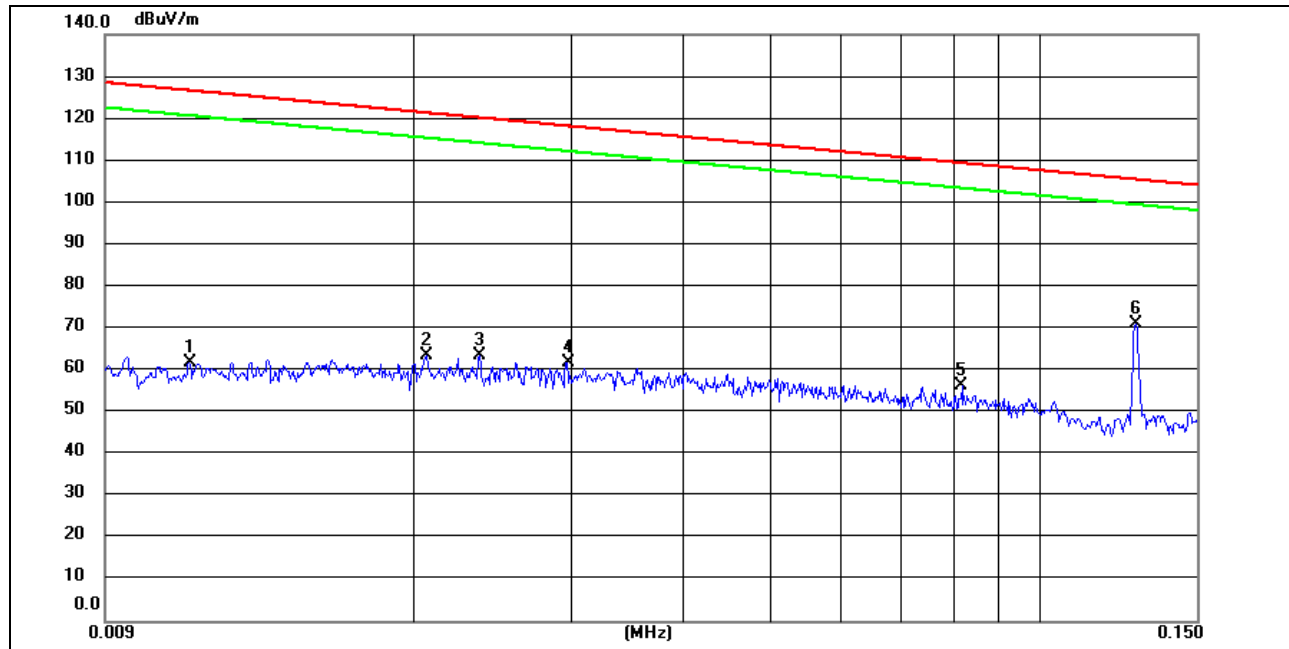
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.0092	46.27	19.12	65.39	128.34	-62.95	peak	
2	0.0112	45.63	18.03	63.66	126.88	-63.22	peak	
3	0.0170	46.58	15.48	62.06	123.39	-61.33	peak	
4	0.0271	45.69	13.52	59.21	119.08	-59.87	peak	
5	0.0590	40.94	11.29	52.23	112.20	-59.97	peak	
6	0.0838	37.80	10.91	48.71	109.15	-60.44	peak	



Limit: FCC Part 15C 3m Radiation
 Mode: Wireless Charging 7.5W
 Test Engineer: Fink

Antenna: coplanar
 Power Rating: AC 120V/60Hz

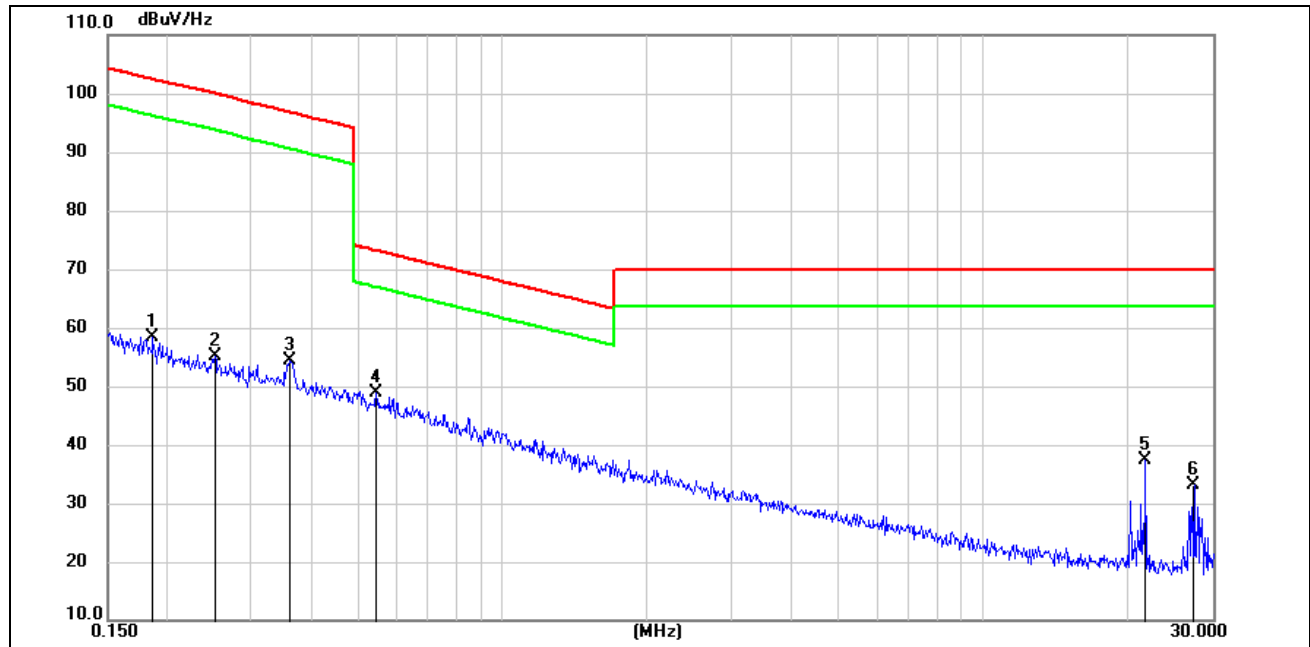
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.1582	51.81	10.67	62.48	103.62	-41.14	peak	
2	0.2603	48.01	10.59	58.60	99.46	-40.86	peak	
3	0.3596	46.98	10.56	57.54	96.57	-39.03	peak	
4	1.4410	31.82	10.59	42.41	64.43	-22.02	peak	
5	20.9243	27.78	9.96	37.74	69.54	-31.80	peak	
6	27.4160	24.11	8.86	32.97	69.54	-36.57	peak	



Limit: FCC Part 15C 3m Radiation
Mode: Wireless Charging 15W
Test Engineer: Fink

Antenna: coaxial
Power Rating: AC 120V/60Hz

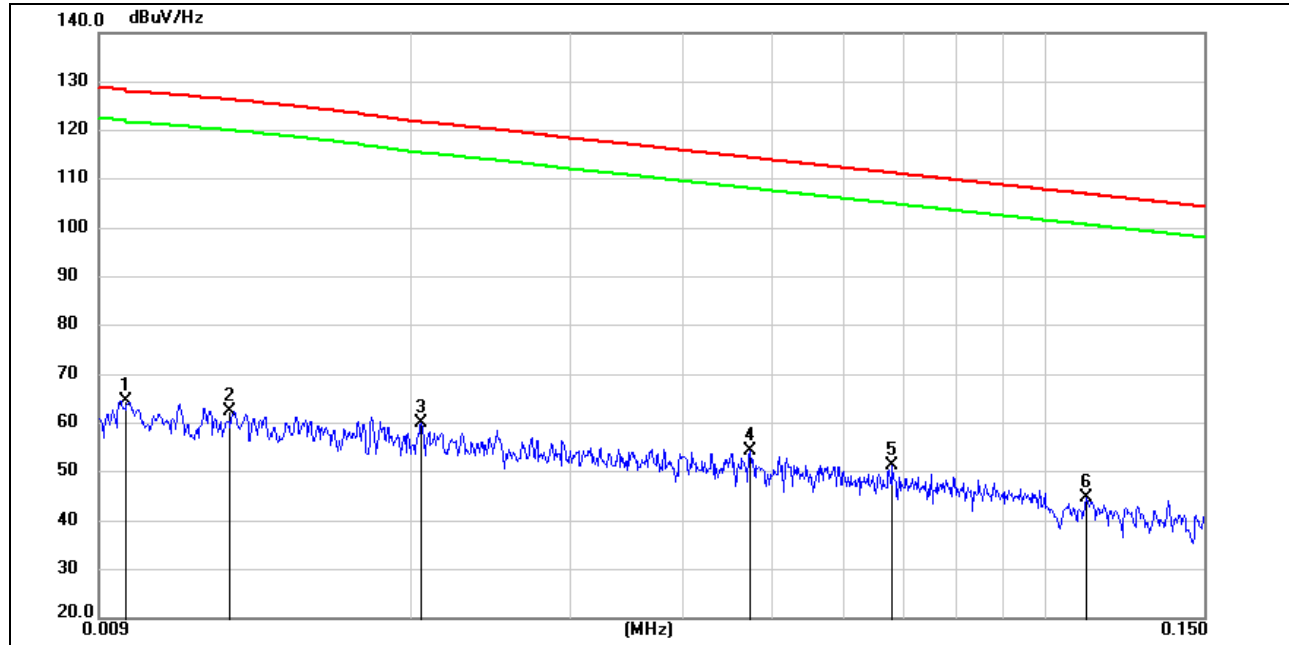
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.0112	41.24	20.42	61.66	126.60	-64.94	peak	
2	0.0206	43.09	20.28	63.37	121.31	-57.94	peak	
3	0.0236	43.10	20.24	63.34	120.13	-56.79	peak	
4	0.0296	41.63	20.15	61.78	118.16	-56.38	peak	
5	0.0819	36.63	19.70	56.33	109.33	-53.00	peak	
6	0.1281	51.40	19.63	71.03	105.45	-34.42	peak	



Limit: FCC Part 15C 3m Radiation
 Mode: Wireless Charging 15W
 Test Engineer: Fink

Antenna: coaxial
 Power Rating: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.1874	47.73	10.65	58.38	102.15	-43.77	peak	
2	0.2508	44.46	10.59	55.05	99.79	-44.74	peak	
3	0.3615	43.84	10.56	54.40	96.52	-42.12	peak	
4	0.5435	38.25	10.52	48.77	72.94	-24.17	peak	
5	21.7150	27.60	9.83	37.43	69.54	-32.11	peak	
6	27.4160	24.35	8.86	33.21	69.54	-36.33	peak	



Limit:	FCC Part 15C 3m Radiation	Antenna:	coplanar
Mode:	Wireless Charging 15W	Power Rating:	AC 120V/60Hz
Test Engineer:	Fink		

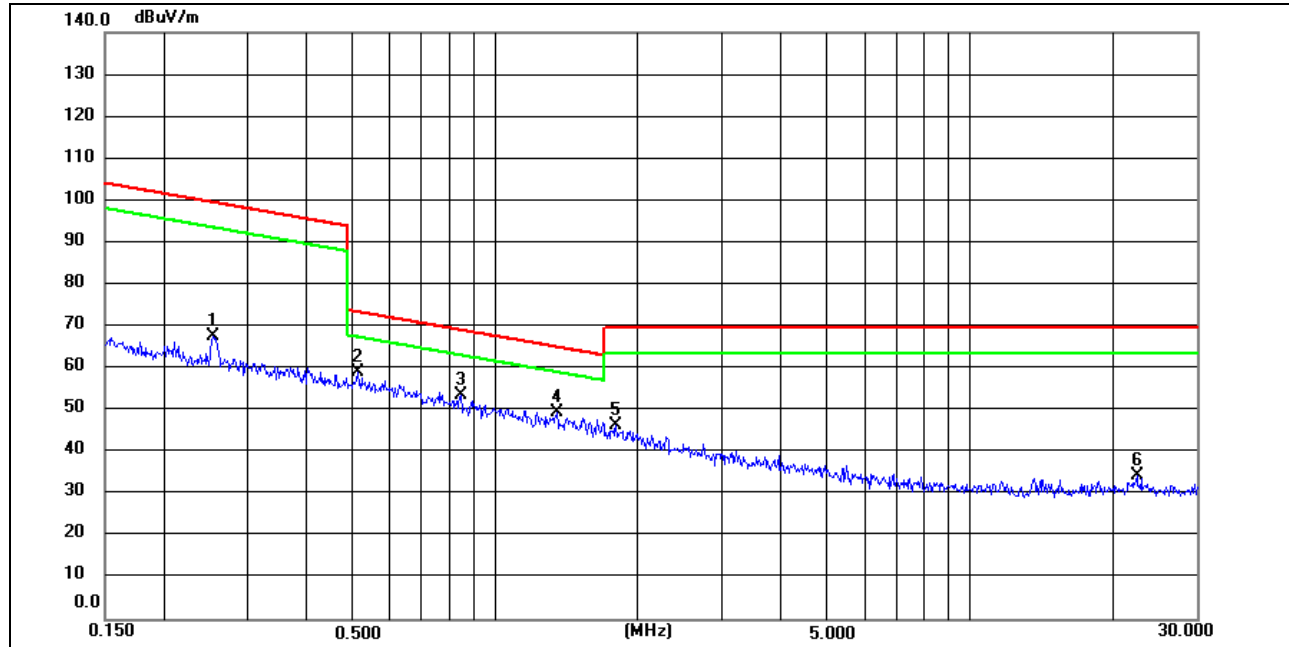
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.0095	45.64	18.91	64.55	128.06	-63.51	peak	
2	0.0126	45.10	17.42	62.52	126.03	-63.51	peak	
3	0.0205	45.98	14.11	60.09	121.40	-61.31	peak	
4	0.0472	42.58	11.72	54.30	114.16	-59.86	peak	
5	0.0678	40.27	11.11	51.38	110.99	-59.61	peak	
6	0.1113	33.85	10.76	44.61	106.68	-62.07	peak	

Note: (1) All Readings are Peak Value.

(2) Emission Level= Reading Level+Probe Factor +Cable Loss.

(3) The average measurement was not performed when the peak measured data under the limit of average detection.

(4) EUT lying on the table position is the worst case result in the report.



Limit: FCC Part 15C 3m Radiation
 Mode: Wireless Charging 15W
 Test Engineer: Fink

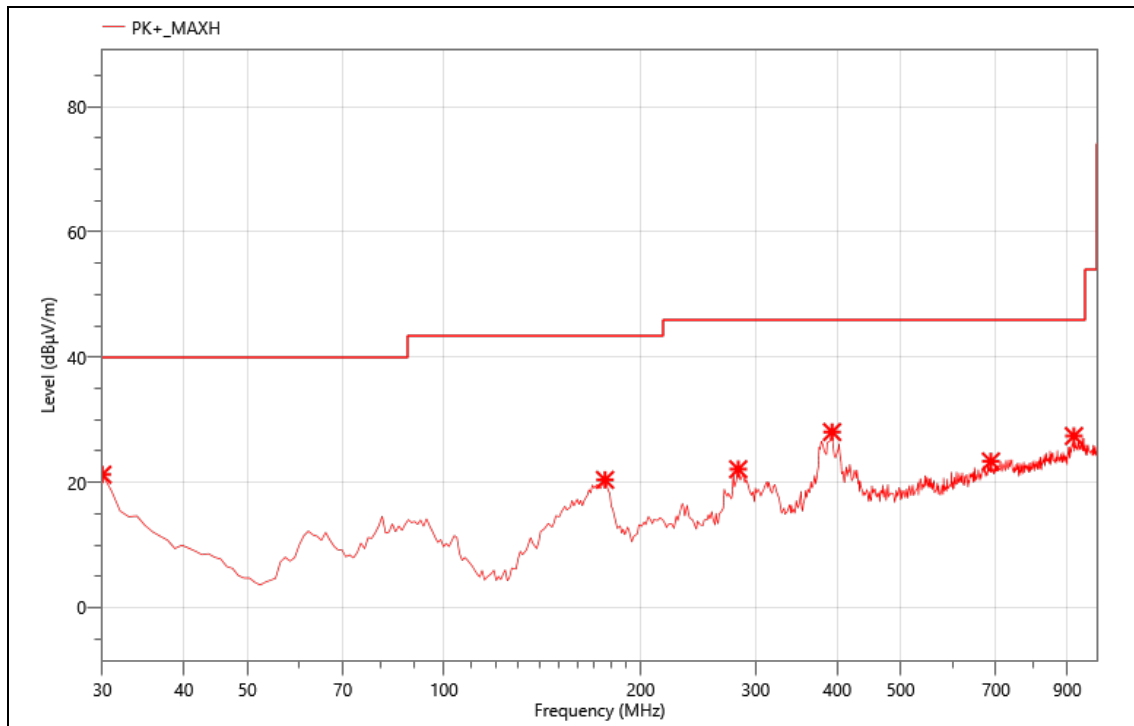
Antenna: coplanar
 Power Rating: AC 120V/60Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.2535	47.84	19.63	67.47	99.52	-32.05	peak	
2	0.5128	39.53	19.58	59.11	73.41	-14.30	peak	
3	0.8438	33.92	19.48	53.40	69.09	-15.69	peak	
4	1.3450	30.00	19.48	49.48	65.05	-15.57	peak	
5	1.7905	26.74	19.52	46.26	69.50	-23.24	peak	
6	22.4163	13.08	21.17	34.25	69.50	-35.25	peak	

Note: (1) All Readings are Peak Value.
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 (4) EUT lying on the table position is the worst case result in the report.

We pretested modes (Wireless Charging(15W), Wireless Charging (7.5W), Wireless Charging(5W)) for EUT. The worst test data (Wireless Charging(15W) and Wireless Charging (7.5W)) see follow the table.

Mode:	7.5W
Power:	AC 120V/60Hz
TE:	Berny
Date	2024/8/12
T/A/P	23.9°C/51%/101Kpa

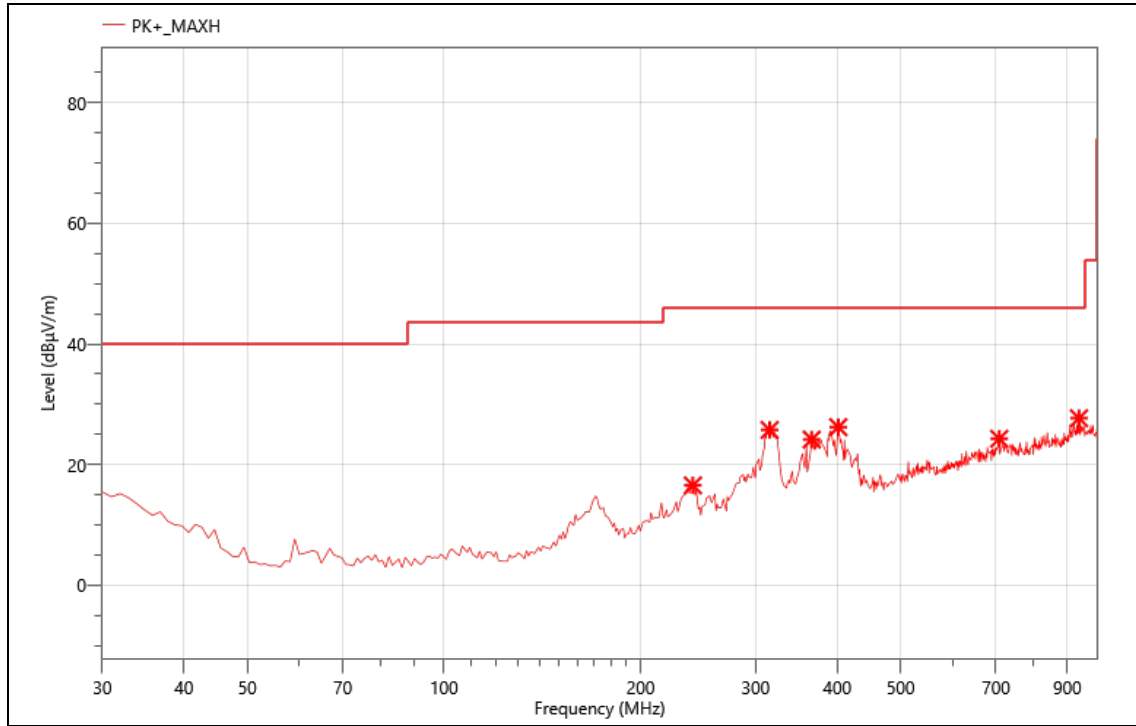


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	30.000	35.49	-14.27	21.22	40.00	18.78	PK+	V
2	176.470	42.61	-22.22	20.39	43.50	23.11	PK+	V
3	282.200	41.48	-19.39	22.09	46.00	23.91	PK+	V
4	392.780	42.29	-14.26	28.03	46.00	17.97	PK+	V
5	687.660	31.03	-7.69	23.34	46.00	22.66	PK+	V
6	921.430	30.87	-3.48	27.39	46.00	18.61	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	7.5W
Power:	AC 120V/60Hz
TE:	Berny
Date	2024/8/12
T/A/P	23.9°C/51%/101Kpa

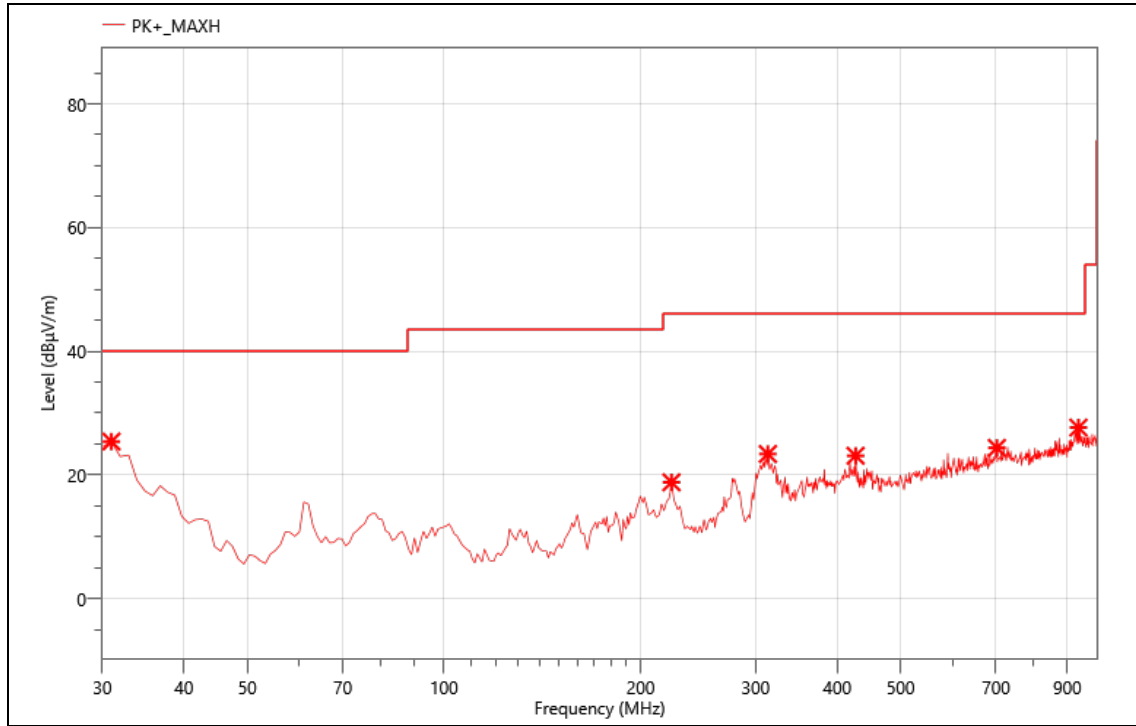


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	240.490	36.18	-19.59	16.59	46.00	29.41	PK+	H
2	315.180	43.97	-18.2	25.77	46.00	20.23	PK+	H
3	365.620	39.75	-15.57	24.18	46.00	21.82	PK+	H
4	401.510	40.11	-13.88	26.23	46.00	19.77	PK+	H
5	708.030	31.48	-7.17	24.31	46.00	21.69	PK+	H
6	937.920	30.89	-3.18	27.71	46.00	18.29	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	15W
Power:	AC 120V/60Hz
TE:	Berny
Date	2024/8/12
T/A/P	23.9°C/51%/101Kpa

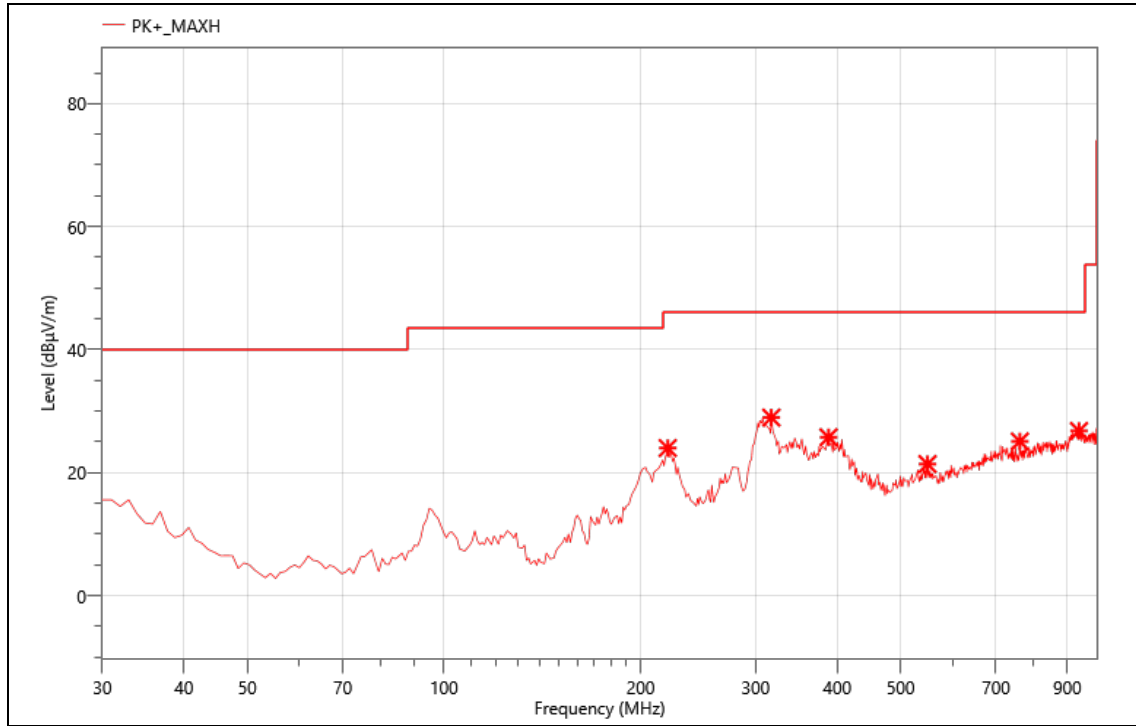


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	30.970	40.20	-14.8	25.40	40.00	14.60	PK+	V
2	223.030	39.43	-20.63	18.80	46.00	27.20	PK+	V
3	313.240	41.68	-18.29	23.39	46.00	22.61	PK+	V
4	426.730	37.11	-14.01	23.10	46.00	22.90	PK+	V
5	702.210	31.73	-7.36	24.37	46.00	21.63	PK+	V
6	935.980	30.78	-3.12	27.66	46.00	18.34	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	15W
Power:	AC 120V/60Hz
TE:	Berny
Date	2024/8/12
T/A/P	23.9°C/51%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	220.120	44.79	-20.79	24.00	46.00	22.00	PK+	H
2	317.120	47.04	-18.09	28.95	46.00	17.05	PK+	H
3	387.930	40.22	-14.47	25.75	46.00	20.25	PK+	H
4	549.920	31.13	-9.73	21.40	46.00	24.60	PK+	H
5	761.380	32.39	-7.31	25.08	46.00	20.92	PK+	H
6	937.920	29.96	-3.18	26.78	46.00	19.22	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

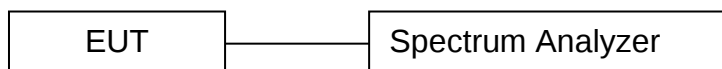
7.2 Test Instruments

Refer a test equipment and calibration data table in this test report.

7.3 Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 1KHz RBW and 3KHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

7.4 Test Setup



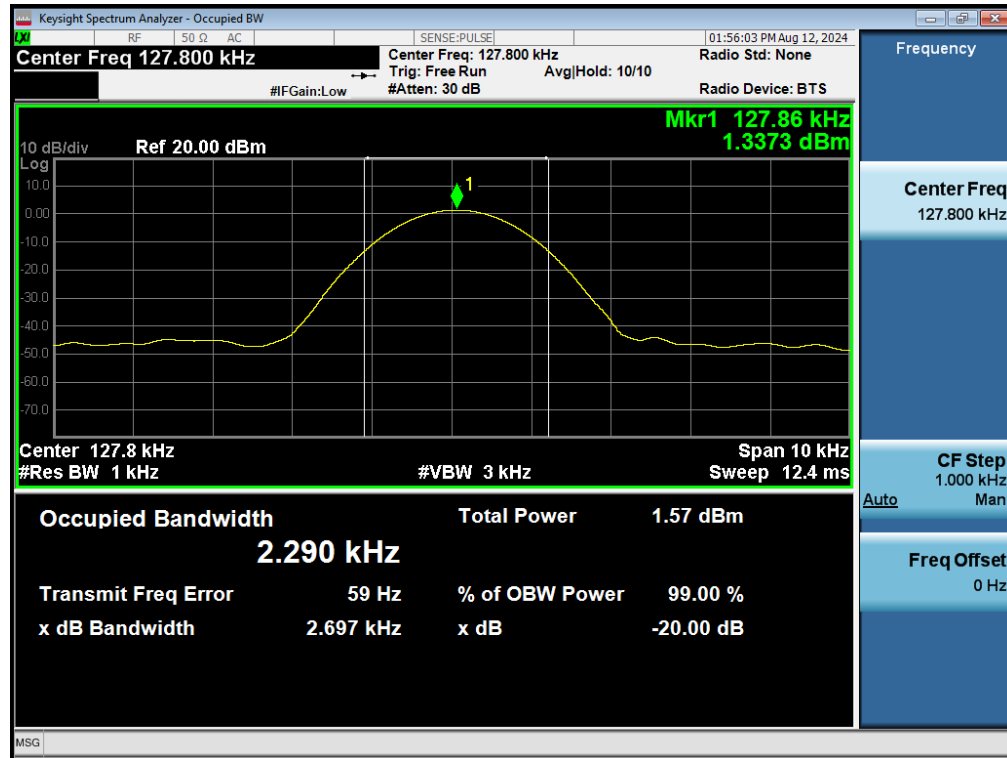
7.5 Test Result

phone charging 7.5W

Frequency (KHz)	20dB Bandwidth (KHz)	Results
127.8	2.697	PASS

20 dB Bandwidth Test plot

phone charging 7.5W

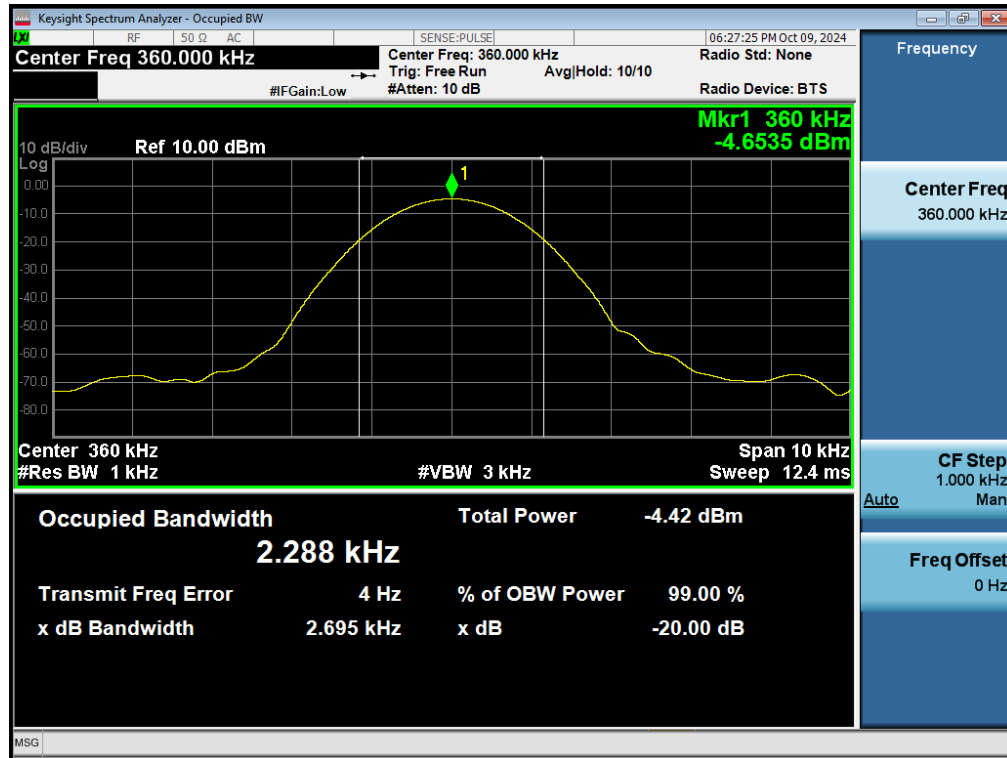


phone charging 15W

Frequency (KHz)	20dB Bandwidth (KHz)	Results
360	2.695	PASS

20 dB Bandwidth Test plot

phone charging 15W



8 Antenna Application

8.1 Antenna requirement

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 Result

The EUT's antenna, permanent attached antenna, used an Induction coil and integrated on PCB, The antenna's gain meets the requirement.

--- END OF REPORT---