

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

OF

ChargePort Pro

Model No.: TA-7820US

FCC ID: A4X-9CP10P

Report No.: E04A24040372F00101

Issue Date: September 26, 2024

Prepared for

CE LINK LIMITED

**22 Dongkang Road, Dalingshan Town, Dongguan City, Guangdong
Province, China.**

Prepared by

Guangdong Global Testing Technology Co., Ltd.

**Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan
Lake Park, Dongguan city, Guangdong, People' s Republic of China,
523808**

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Guangdong Global Testing Technology Co., Ltd.**

VERIFICATION OF COMPLIANCE**Applicant Information**

Company Name: CE LINK LIMITED
Address: 22 Dongkang Road, Dalingshan Town, Dongguan City,
Guangdong Province, China.

Manufacturer Information

Company Name: CE LINK LIMITED
Address: 22 Dongkang Road, Dalingshan Town, Dongguan City,
Guangdong Province, China.

Factory Information

Company Name 1: SuiChuan CE LINK LIMITED
Address 1: SuiChuan county industrial park east zone, Ji' an city,
Jiangxi province, China.
Company Name 2: CE LINK VIET NAM COMPANY LIMITED
Address 2: Lot CNSG04&CNSG06 Van Trung Industrial Zone, Viet Yen
district, Bac Giang Province, Vietnam

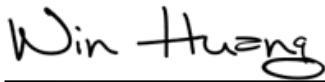
EUT Information

Product Description: ChargePort Pro
Model: TA-7820US
Series Model: N/A
Brand: teleadapt
Sample Received Date: April 12, 2024
Sample Status: Normal
Sample ID: A24040372 002
Date of Tested: April 12, 2024 to May 28, 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	/	E04A24040372F00201

Table of Contents

1 GENERAL INFORMATION	5
1.1 PRODUCT DESCRIPTION	5
1.2 RELATED SUBMITTAL(S) / GRANT(S)	6
1.3 TEST METHODOLOGY	6
1.4 SPECIAL ACCESSORIES	6
1.5 EQUIPMENT MODIFICATIONS	6
1.6 TEST FACILITY	6
2 SYSTEM TEST CONFIGURATION	7
2.1 EUT CONFIGURATION	7
2.2 EUT EXERCISE	7
2.3 TEST PROCEDURE	7
2.4 CONFIGURATION OF TESTED SYSTEM	8
3 SUMMARY OF TEST RESULTS	8
4 TEST SYSTEM UNCERTAINTY	9
5 CONDUCTED EMISSIONS TEST	10
5.1 MEASUREMENT PROCEDURE	10
5.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	10
5.3 MEASUREMENT EQUIPMENT USED	10
5.4 CONDUCTED EMISSION LIMIT	10
5.5 MEASUREMENT RESULT	11
5.6 CONDUCTED MEASUREMENT PHOTO	14
6 RADIATED EMISSION TEST	15
6.1 MEASUREMENT PROCEDURE	15
6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	15
6.3 MEASUREMENT EQUIPMENT USED	16
6.4 RADIATED EMISSION LIMIT	16
6.5 MEASUREMENT RESULT	18
6.6 RADIATED MEASUREMENT PHOTOS	24
7 20DB BANDWIDTH	25
7.1 20dB BANDWIDTH LIMIT	25
7.2 TEST INSTRUMENTS	25
7.3 TEST PROCEDURE	25
7.4 TEST SETUP	25
7.5 TEST RESULT	25
8 ANTENNA APPLICATION	27
8.1 ANTENNA REQUIREMENT	27
8.2 RESULT	27

1 General Information

1.1 Product Description

Characteristics	Description
Product Name	ChargePort Pro
Model number	TA-7820US
Operation Mode	Wireless Charging
Input Rating	125V~, 60Hz, 10A Max.
Power Supply	120V/60Hz
Operating Frequency	110-205KHz
Wireless Charging Power	5W/7.5W/10W
Modulation Technique	ASK
Antenna Type	Coil Antenna
Software version	V1.0
Hardware version	V1.0
Sample receipt date	April 12, 2024

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: A4X-9CP10P 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

2 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

3 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

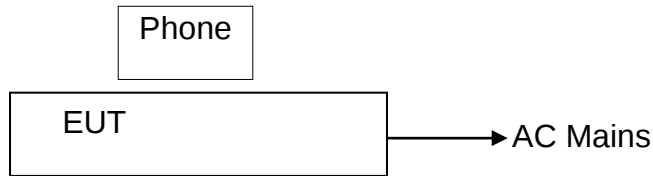


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	ChargePort Pro	/	TA-7820US	A4X-9CP10P	EUT
2.	phone	Apple	A2176	N/A	Support Equipment

Note:

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

4 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

5 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	$\pm 3\%$

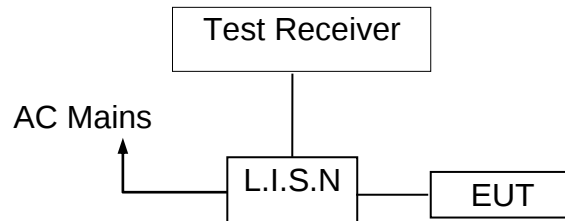
Remark: The coverage Factor ($k=2$), and measurement Uncertainty for a level of Confidence of 95%

6 Conducted Emissions Test

6.1 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.

6.2 Test SET-UP (Block Diagram of Configuration)



6.3 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	2023/09/18	2024/09/17
LISN/AMN	Rohde & Schwarz	ENV216	102843	2023/09/18	2024/09/17
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2023/09/18	2024/09/17
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

6.4 Conducted Emission Limit

Conducted Emission

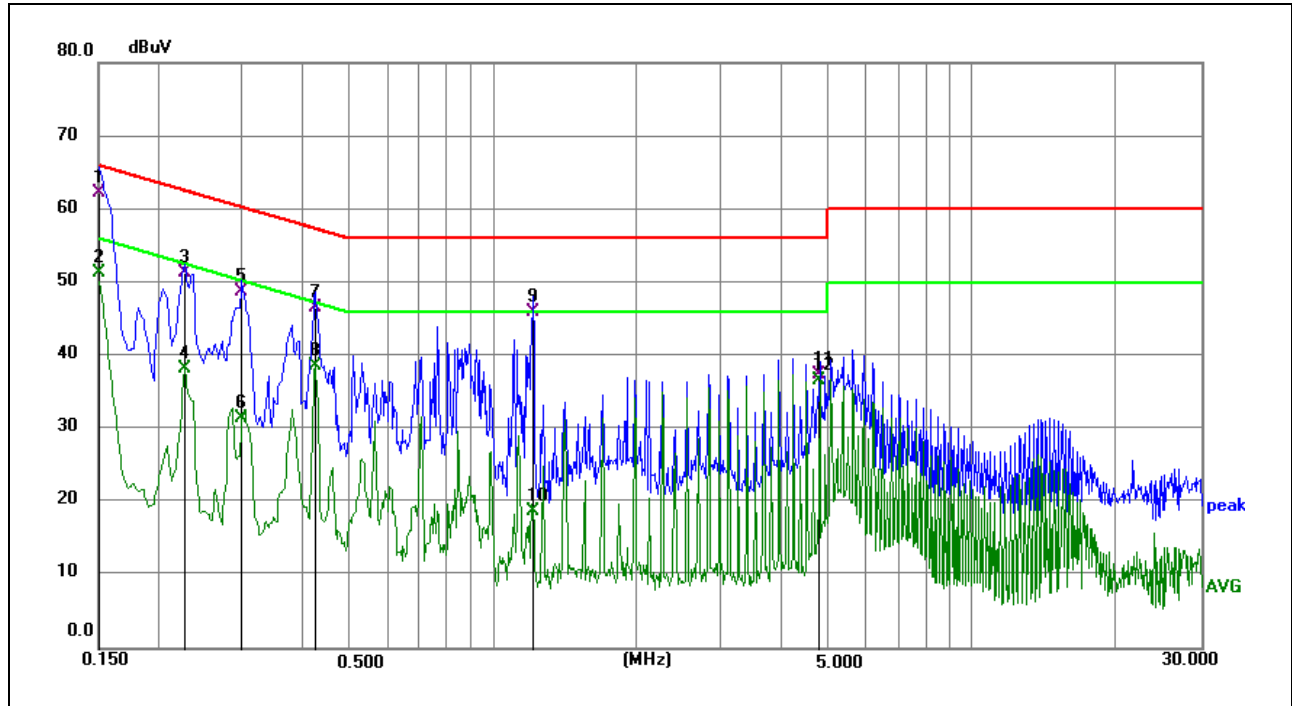
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

- 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.

6.5 Measurement Result

Operation Mode:	TX	Test Date :	2024/5/6
Frequency Range:	0.15MHz~30MHz	Temperature :	25.5℃
Test Result:	PASS	Humidity :	54 %RH
Test By:	Fink		

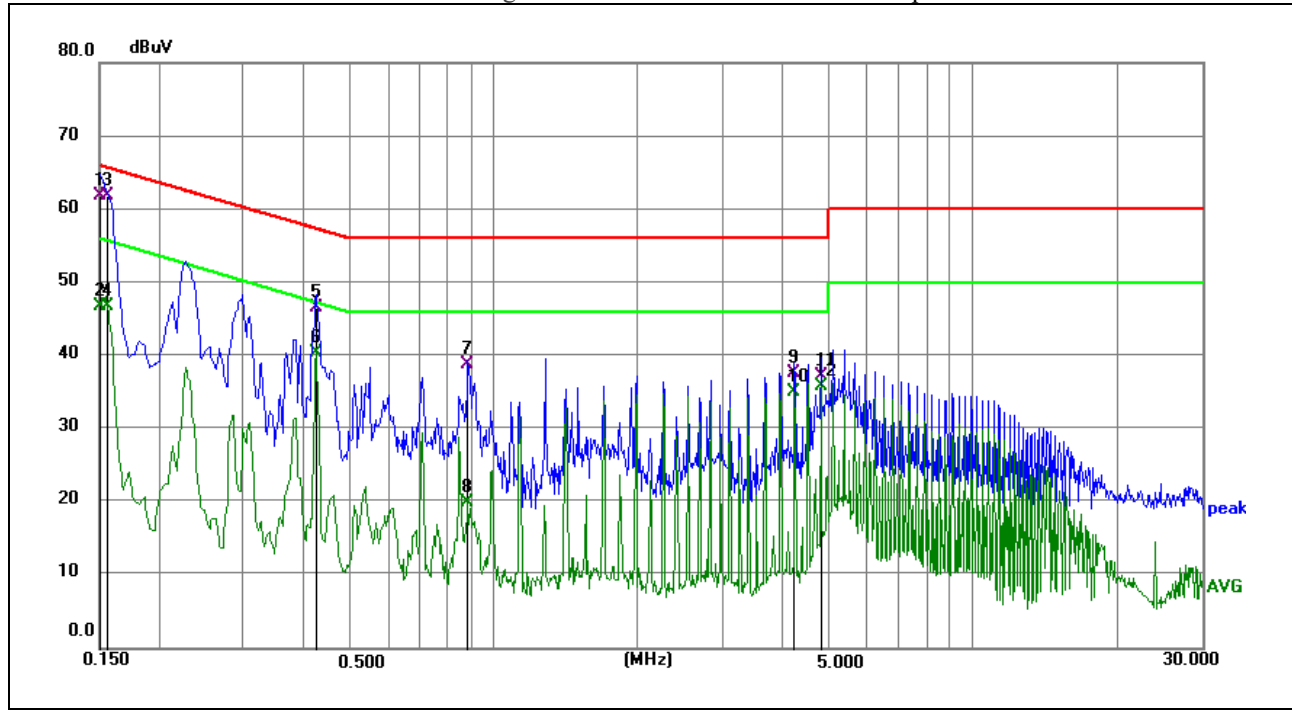
We pretested modes Wireless Charging (10W), Wireless Charging (7.5W), Wireless Charging(5W) for EUT. The worst test data see follow the table.

Test mode: Wireless Charging 10W

Limit: FCC Part 15 C Conduction
EUT: ChargePort Pro
M/N.: TA-7820US
Mode: Wireless Charging 10W

Phase: L1
Test Time: 2024/5/6
Power Rating: AC120V/60Hz
Test Engineer: Fink

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1500	52.40	9.90	62.30	66.00	-3.70	QP	
2	0.1500	41.48	9.90	51.38	56.00	-4.62	AVG	
3	0.2265	41.43	9.87	51.30	62.58	-11.28	QP	
4	0.2265	28.42	9.87	38.29	52.58	-14.29	AVG	
5	0.2983	38.85	9.85	48.70	60.29	-11.59	QP	
6	0.2983	21.69	9.85	31.54	50.29	-18.75	AVG	
7	0.4244	36.78	9.82	46.60	57.36	-10.76	QP	
8	0.4244	28.88	9.82	38.70	47.36	-8.66	AVG	
9	1.2120	35.84	10.06	45.90	56.00	-10.10	QP	
10	1.2120	8.66	10.06	18.72	46.00	-27.28	AVG	
11	4.8029	27.26	10.24	37.50	56.00	-18.50	QP	
12	4.8029	26.38	10.24	36.62	46.00	-9.38	AVG	



Limit: FCC Part 15 C Conduction
EUT: ChargePort Pro
M/N.: TA-7820US
Mode: Wireless Charging 10W

Phase: N
Test Time: 2024/5/6
Power Rating: AC120V/60Hz
Test Engineer: Fink

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1500	51.80	10.00	61.80	66.00	-4.20	QP	
2	0.1500	36.67	10.00	46.67	56.00	-9.33	AVG	
3	0.1556	51.82	9.98	61.80	65.70	-3.90	QP	
4	0.1556	36.83	9.98	46.81	55.70	-8.89	AVG	
5	0.4245	36.55	9.95	46.50	57.36	-10.86	QP	
6	0.4245	30.37	9.95	40.32	47.36	-7.04	AVG	
7	0.8835	28.75	10.05	38.80	56.00	-17.20	QP	
8	0.8835	9.94	10.05	19.99	46.00	-26.01	AVG	
9	4.2450	27.42	10.28	37.70	56.00	-18.30	QP	
10	4.2450	24.83	10.28	35.11	46.00	-10.89	AVG	
11	4.8120	26.92	10.28	37.20	56.00	-18.80	QP	
12	4.8120	25.47	10.28	35.75	46.00	-10.25	AVG	

6.6 Conducted Measurement Photo



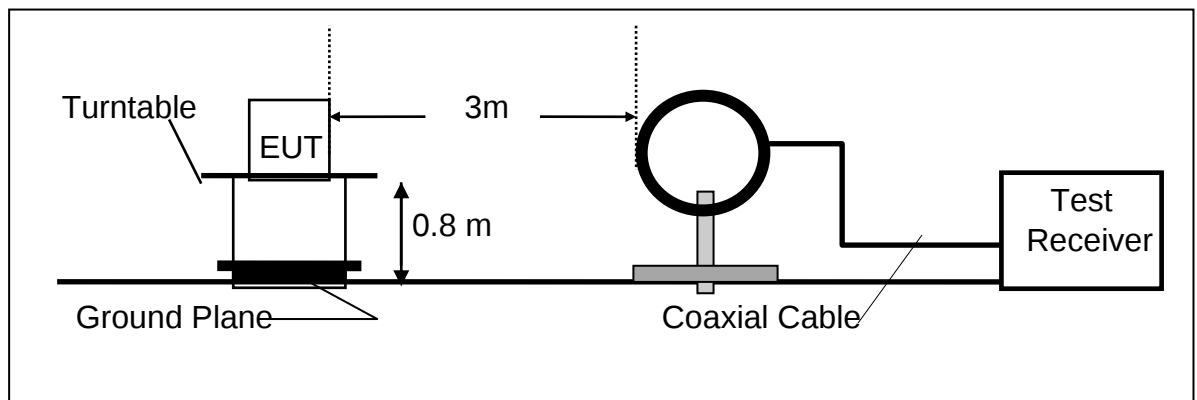
7 Radiated Emission Test

7.1 Measurement Procedure

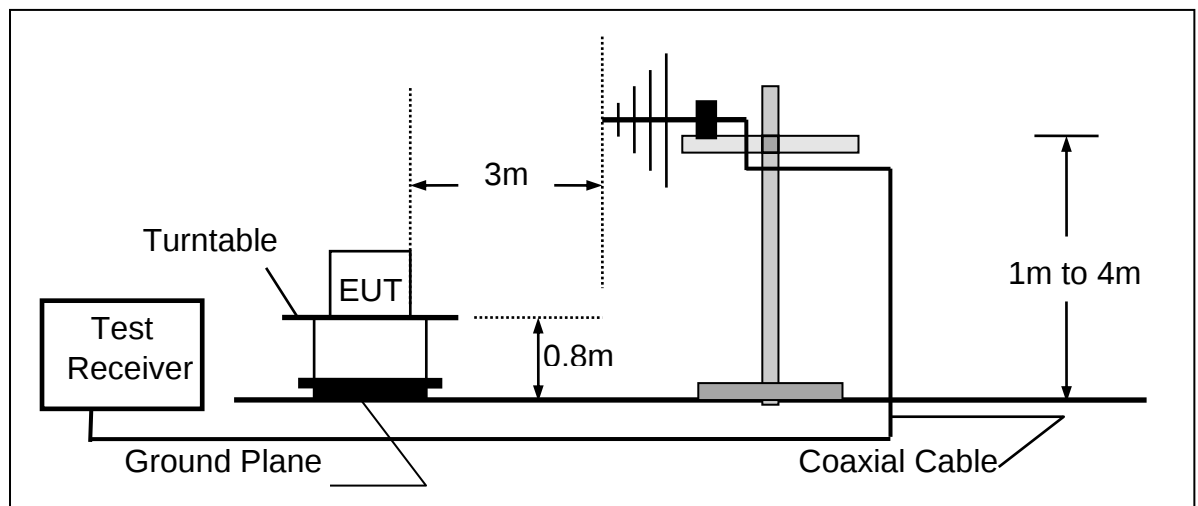
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above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

7.2 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



7.3 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	2023/09/18	2024/09/17
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2023/09/18	2024/09/17
Pre-Amplifier	HzEMC	HPA-9K0130	HYP A21001	2023/09/18	2024/09/17
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

7.4 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	$20\log 500$

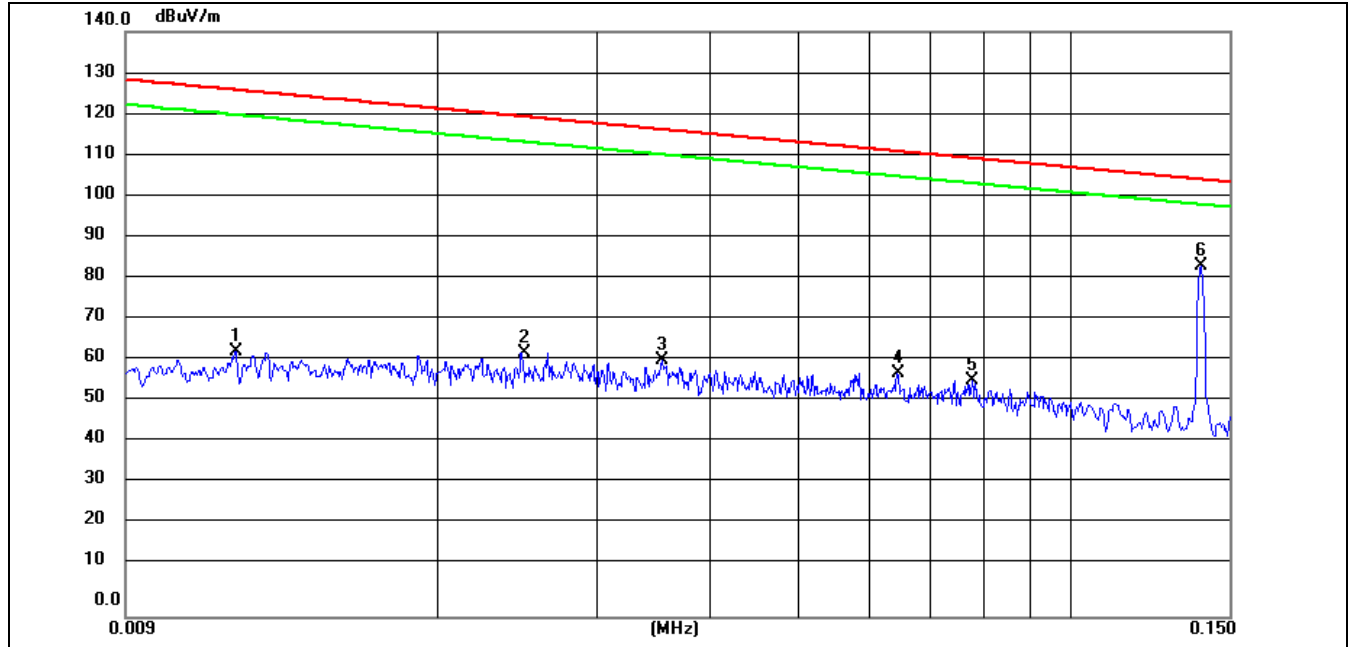
15.205 Restricted bands of operation

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.

7.5 Measurement Result

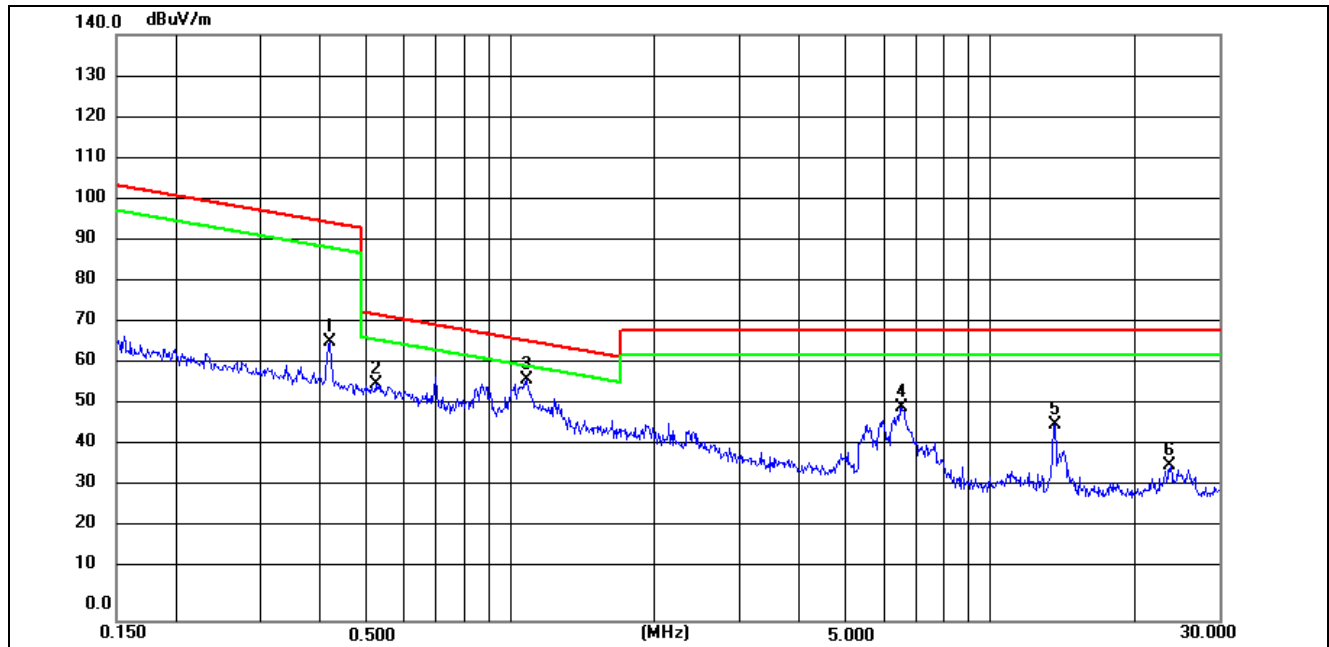
We pretested modes (Wireless Charging (10W), Wireless Charging (7.5W), Wireless Charging (5W) for EUT. The worst mode (Wireless Charging (10W)) test data see follow the table.



Limit: FCC Part 15C 3m Radiation
 EUT: ChargePort Pro
 M/N.: TA-7820US
 Mode: Wireless Charging 10W
 Test Engineer: Vier

Antenna: coaxial
 Temperature: 24.3°C
 Humidity: 53.2%RH
 Power Rating: AC 120V/60Hz
 Test Time: 2024/5/6

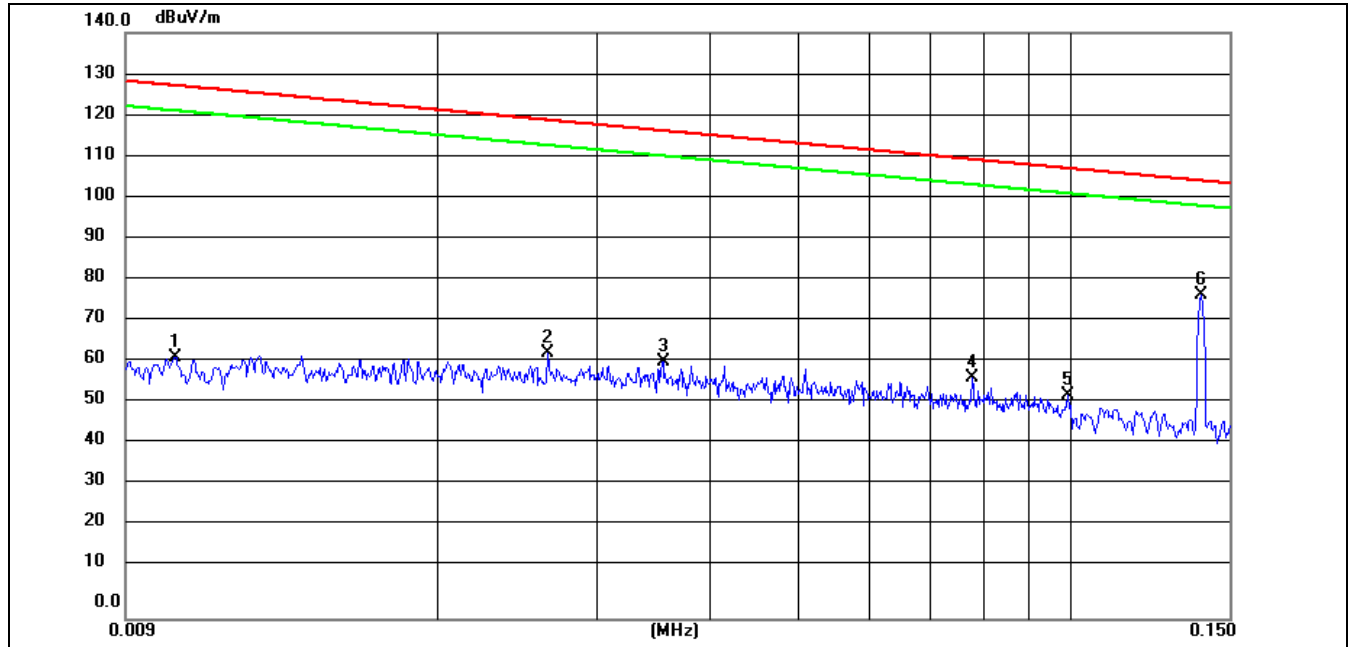
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.0120	43.20	20.40	63.60	126.00	-62.40	peak	
2	0.0247	42.97	20.22	63.19	119.74	-56.55	peak	
3	0.0353	41.59	20.09	61.68	116.64	-54.96	peak	
4	0.0643	38.49	19.73	58.22	111.43	-53.21	peak	
5	0.0778	37.08	19.68	56.76	109.78	-53.02	peak	
6	0.1394	64.28	19.64	83.92	104.71	-20.79	peak	



Limit: FCC Part 15C 3m Radiation
EUT: ChargePort Pro
M/N.: TA-7820US
Mode: Wireless Charging 10W
Test Engineer: Vier

Antenna: coaxial
Temperature: 24.3°C
Humidity: 53.2%RH
Power Rating: AC 120V/60Hz
Test Time: 2024/5/6

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.4171	47.08	19.60	66.68	95.20	-28.52	peak	
2	0.5210	37.07	19.58	56.65	73.27	-16.62	peak	
3	1.0766	38.14	19.44	57.58	66.98	-9.40	peak	
4	6.5227	31.38	19.66	51.04	69.50	-18.46	peak	
5	13.6228	26.80	20.30	47.10	69.50	-22.40	peak	
6	23.7615	16.33	20.96	37.29	69.50	-32.21	peak	

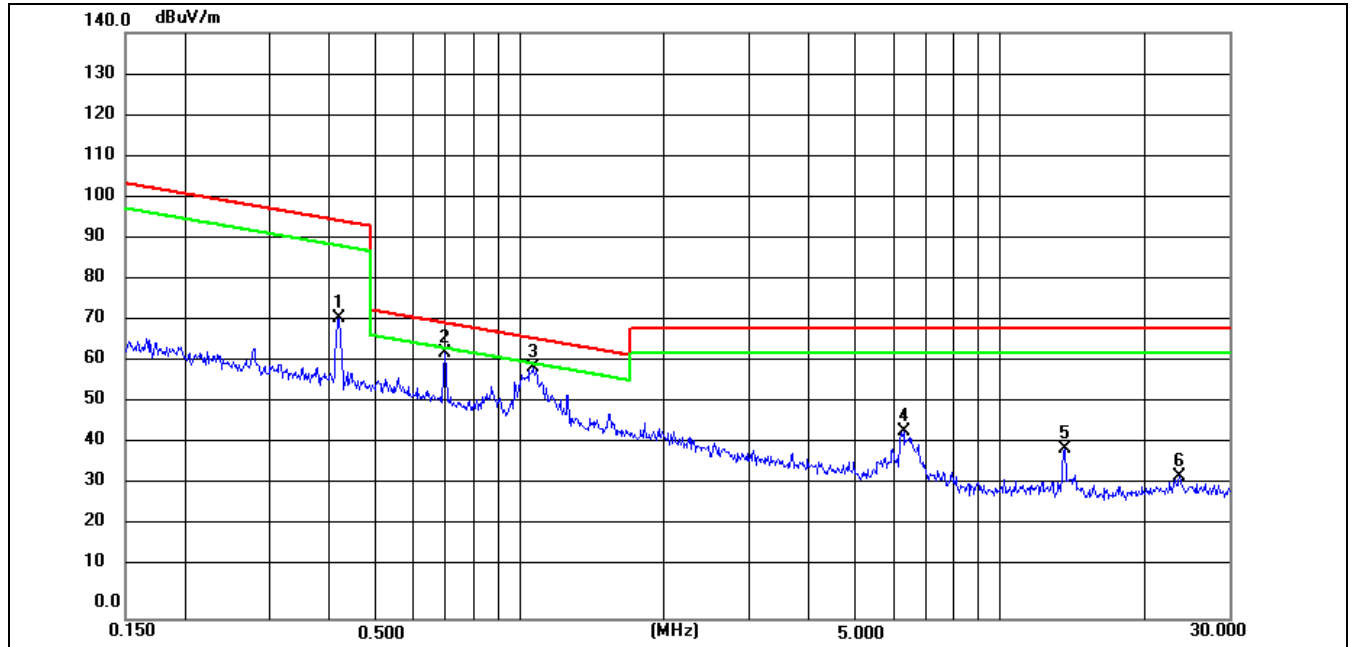


Limit: FCC Part 15C 3m Radiation
EUT: ChargePort Pro
M/N.: TA-7820US
Mode: Wireless Charging 10W
Test Engineer: Vier

Antenna: coplanar
Temperature: 24.3°C
Humidity: 53.2%RH
Power Rating: AC 120V/60Hz
Test Time: 2024/5/6

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.0102	42.27	20.43	62.70	127.41	-64.71	peak	
2	0.0264	43.32	20.20	63.52	119.16	-55.64	peak	
3	0.0354	41.58	20.09	61.67	116.61	-54.94	peak	
4	0.0779	38.14	19.68	57.82	109.76	-51.94	peak	
5	0.0995	34.03	19.64	53.67	107.64	-53.97	peak	
6	0.1398	57.95	19.64	77.59	104.69	-27.10	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.



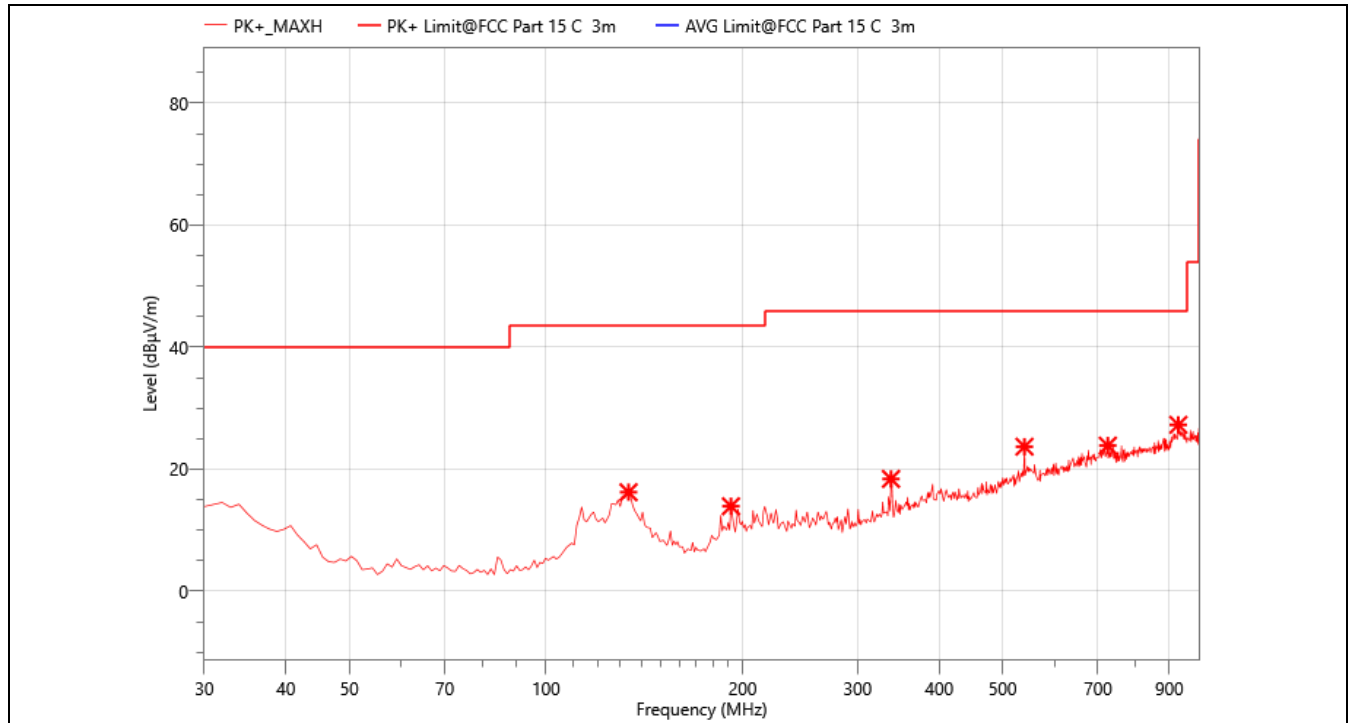
Limit: FCC Part 15C 3m Radiation
EUT: ChargePort Pro
M/N.: TA-7820US
Mode: Wireless Charging 15W
Test Engineer: Vier

Antenna: coplanar
Temperature: 24.3°C
Humidity: 53.2%RH
Power Rating: AC 120V/60Hz
Test Time: 2024/5/6

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.4171	52.15	19.60	71.75	95.20	-23.45	peak	
2	0.6936	44.16	19.53	63.69	70.79	-7.10	peak	
3	1.0597	40.60	19.44	60.04	67.12	-7.08	peak	
4	6.2852	25.11	19.69	44.80	69.50	-24.70	peak	
5	13.6228	20.30	20.30	40.60	69.50	-28.90	peak	
6	23.6361	13.16	20.99	34.15	69.50	-35.35	peak	

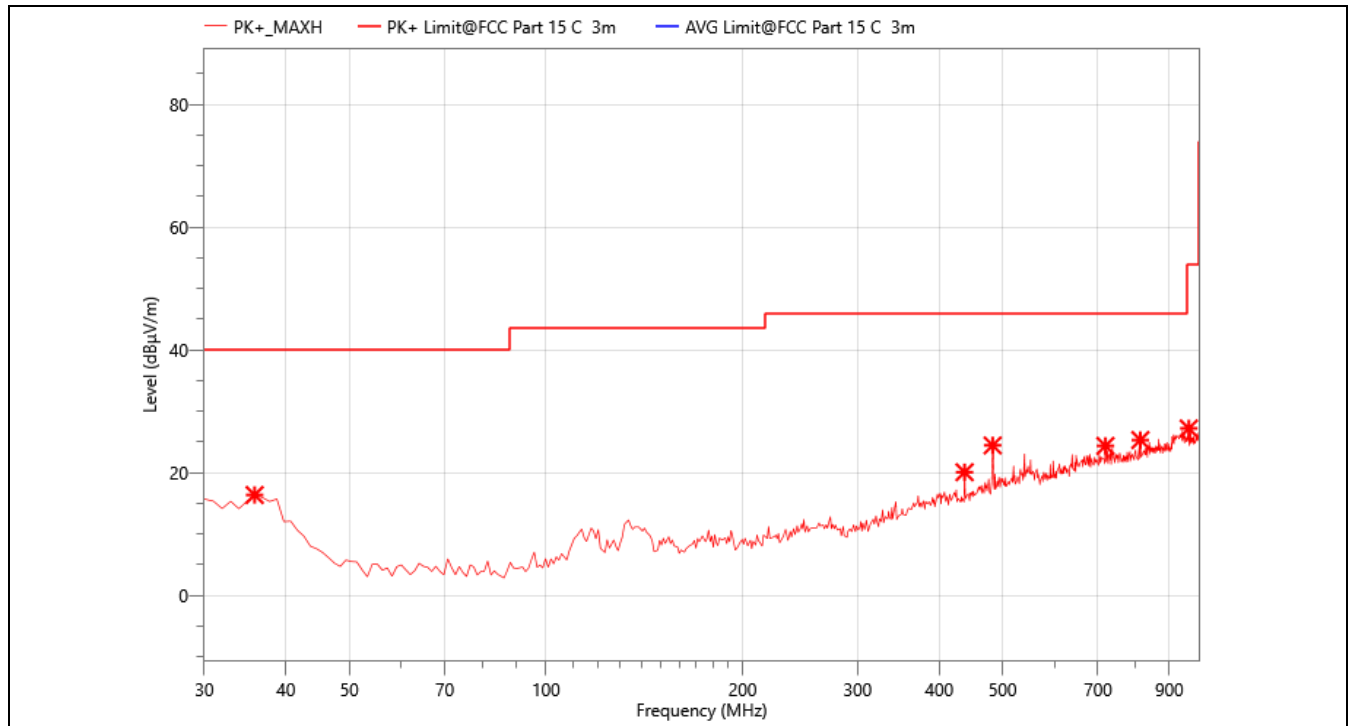
Note: (1) All Readings are Peak Value.
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 (4) EUT lying on the table position is the worst case result in the report.

We pretested modes Wireless Charging (10W), Wireless Charging (7.5W), Wireless Charging(5W) for EUT. The worst test data (Wireless Charging(10W)) see follow the table.



Limit:	FCC Part 15C 3m Radiation	Antenna:	Horizontal
EUT:	ChargePort Pro	Temperature:	24.3°C
M/N.:	TA-7820US	Humidity:	54%RH
Mode:	Wireless Charging 10W	Power Rating:	AC 120V/60Hz
Test Engineer:	Vier	Test Time:	2024/5/6

No .	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measurement(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	133.790	40.24	-24.01	16.23	43.50	27.27	QP	
2	191.990	36.50	-22.57	13.93	43.50	29.57	QP	
3	337.490	35.42	-17.01	18.41	46.00	27.59	QP	
4	540.220	33.95	-10.25	23.70	46.00	22.30	QP	
5	724.520	30.90	-7.03	23.87	46.00	22.13	QP	
6	929.190	30.30	-3.02	27.28	46.00	18.72	QP	



Limit: FCC Part 15C 3m Radiation
EUT: ChargePort Pro
M/N.: TA-7820US
Mode: Wireless Charging 10W
Test Engineer: Vier

Antenna: Vertical
Temperature: 24.3°C
Humidity: 54%RH
Power Rating: AC 120V/60Hz
Test Time: 2024/5/6

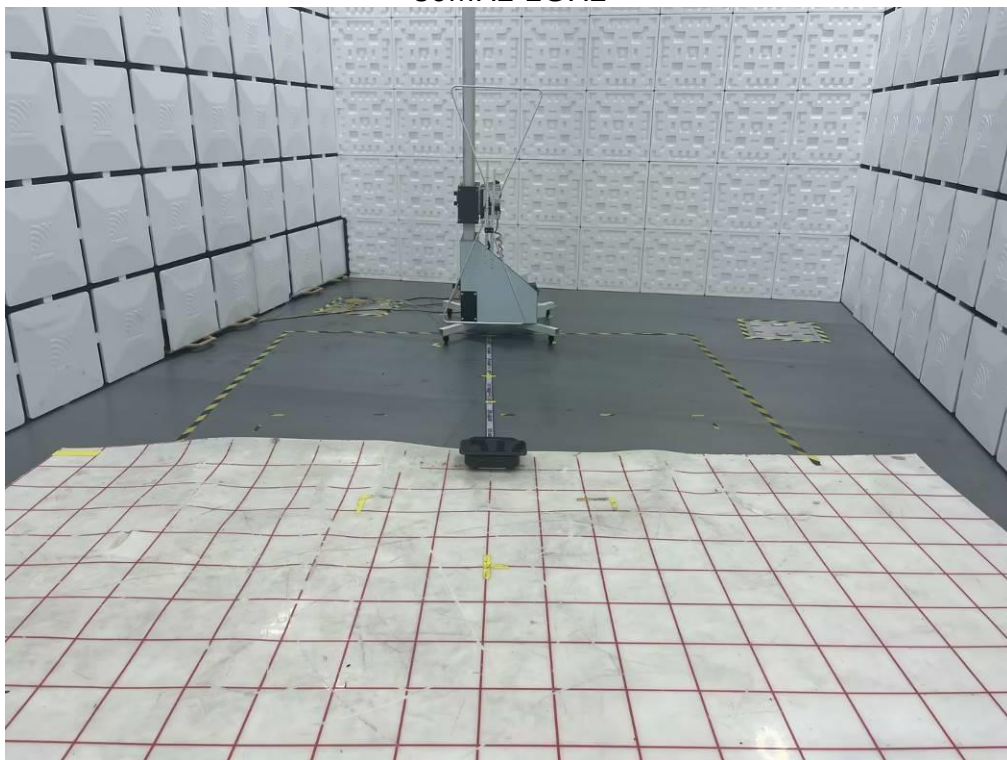
No .	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detect or	Comment
1	35.820	34.01	-17.65	16.36	40.00	23.64	QP	
2	437.400	34.33	-14.26	20.07	46.00	25.93	QP	
3	482.990	37.37	-12.93	24.44	46.00	21.56	QP	
4	718.700	31.27	-6.91	24.36	46.00	21.64	QP	
5	812.790	31.51	-6.2	25.31	46.00	20.69	QP	
6	964.110	31.03	-3.83	27.20	53.90	26.70	QP	

7.6 Radiated Measurement Photos

9kHz-30MHz



30MHz-1GHz



8 20db Bandwidth

8.1 20dB Bandwidth Limit

None: for reporting purposed only.

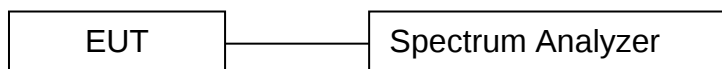
8.2 Test Instruments

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

8.3 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.

8.4 Test Setup



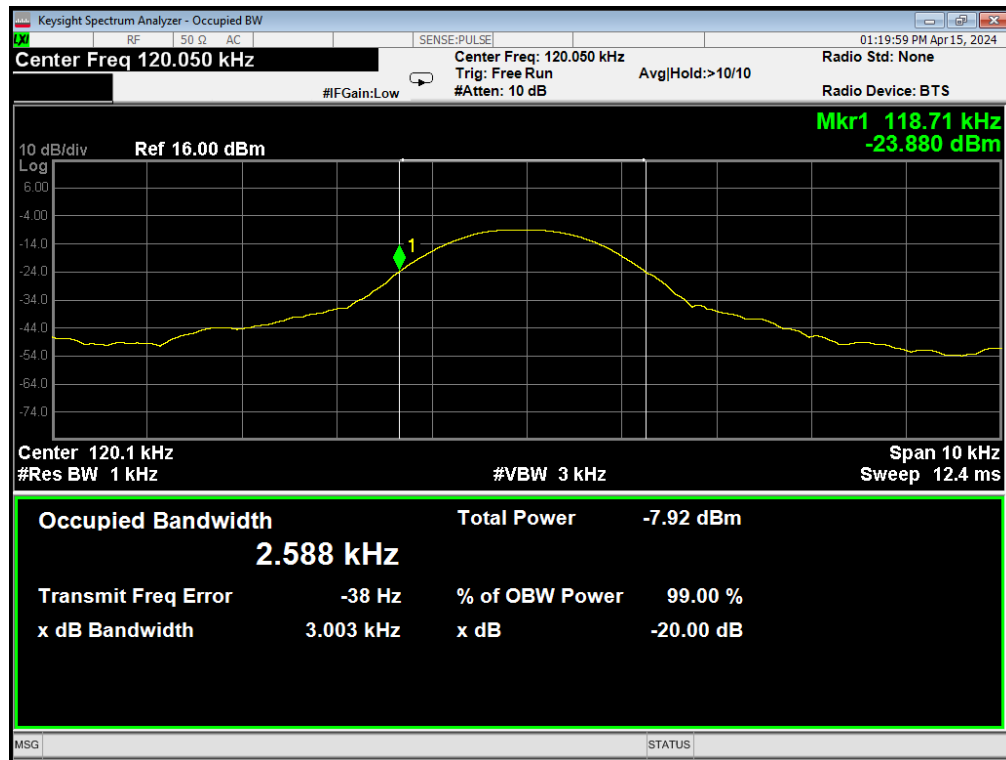
8.5 Test Result

phone charging

Frequency (KHz)	20dB Bandwidth (KHz)	Results
120.05	3.003	PASS

20 dB Bandwidth Test plot

phone charging



9 Antenna Application

9.1 Antenna requirement

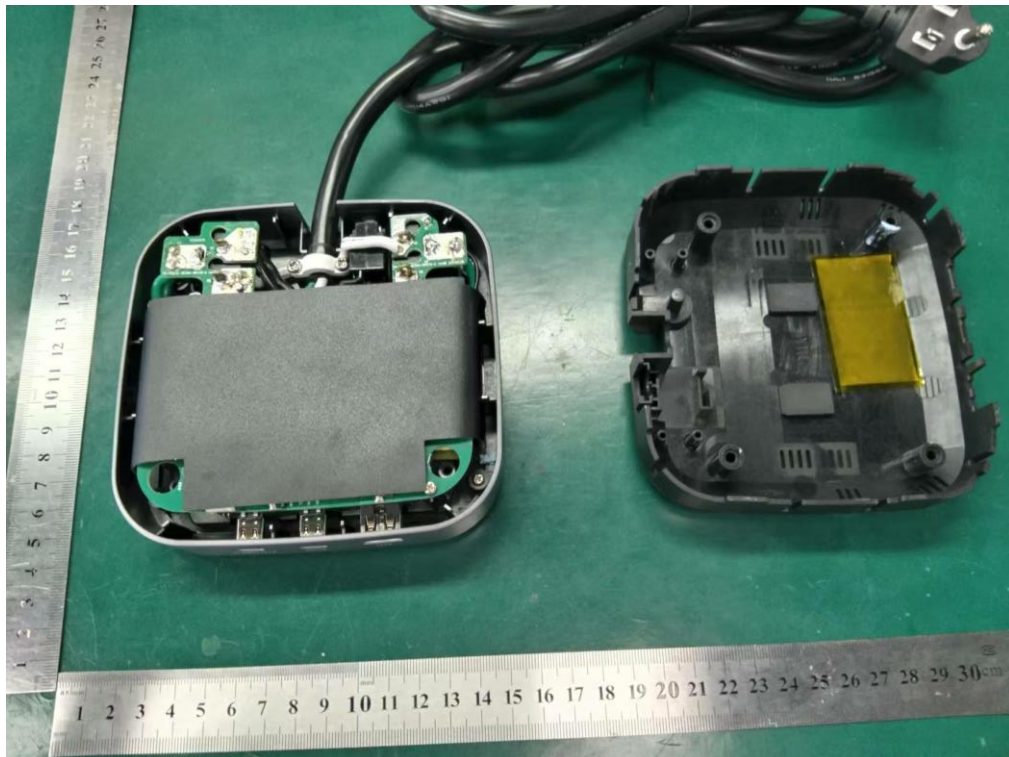
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

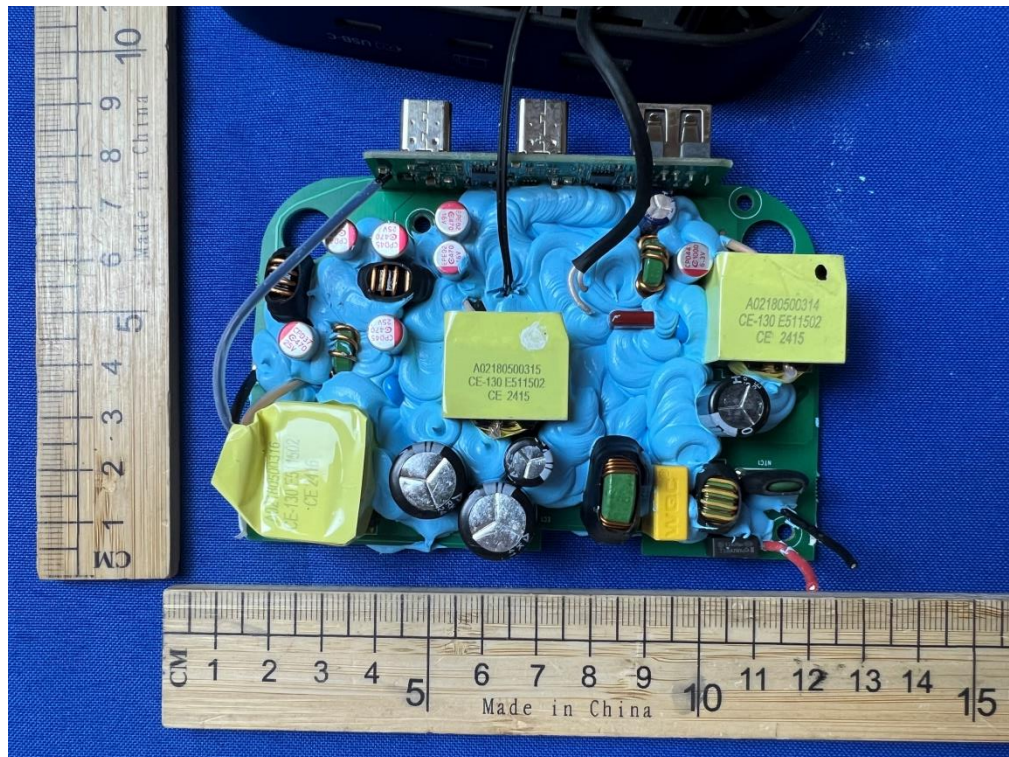
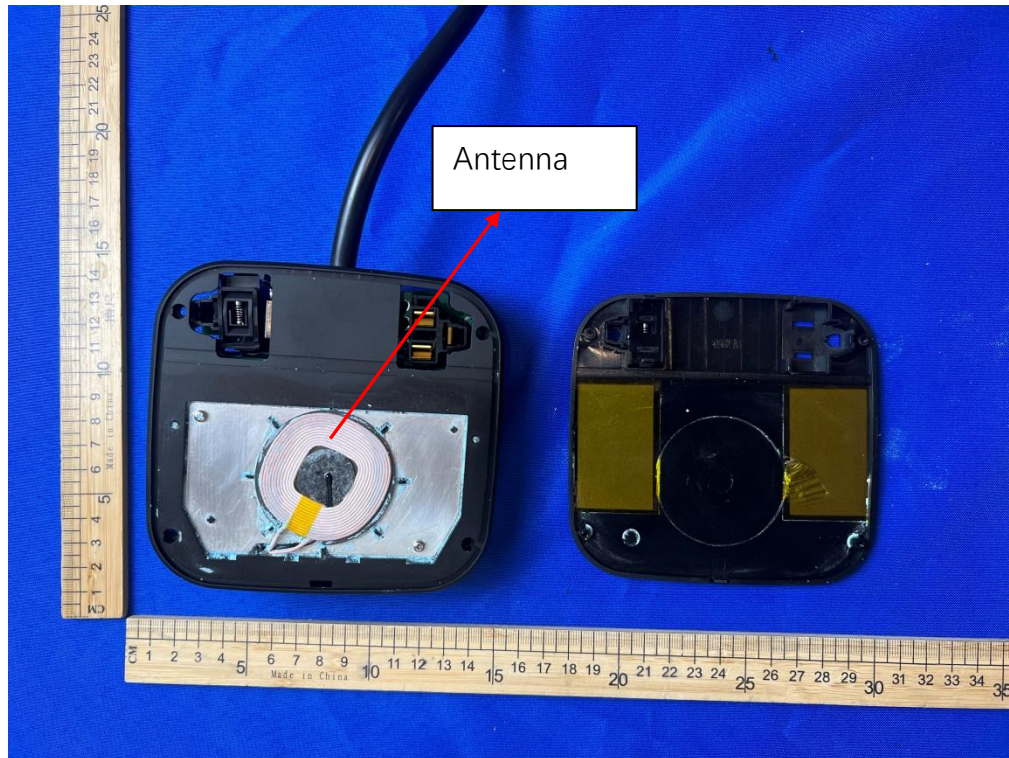
9.2 Result

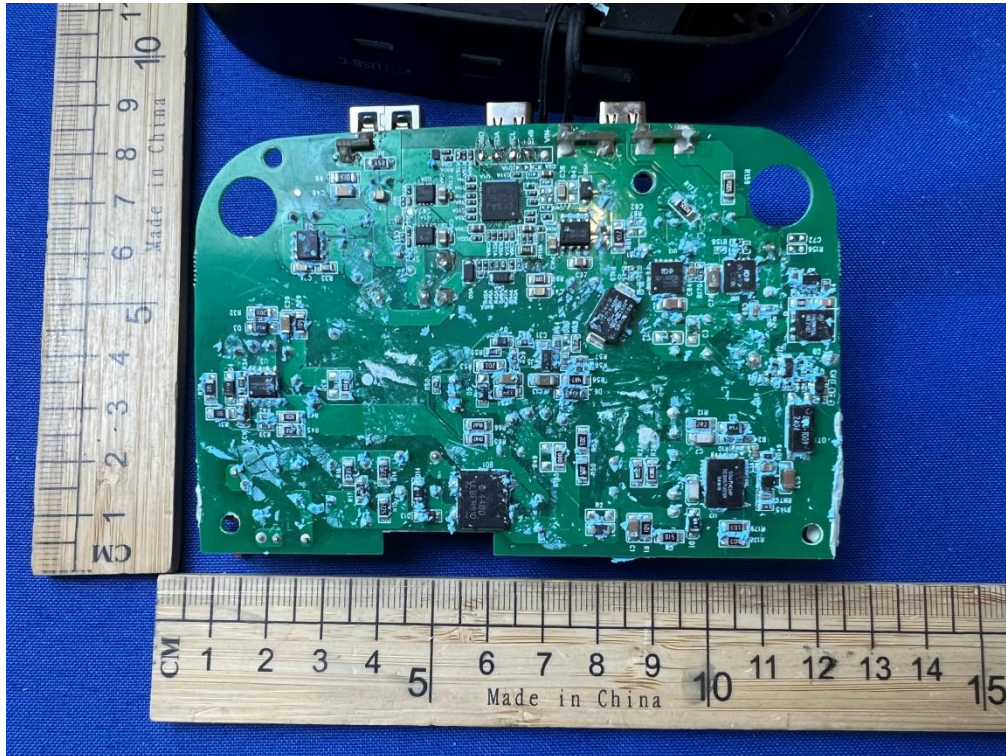
The EUT's antenna, permanent attached antenna, used an Induction coil and integrated on PCB, The antenna's gain meets the requirement.

APPENDIX (Photos of EUT)









--- END OF REPORT---