

FCC PART 15 SUBPART C

Wireless Charger

MODEL No.: DL-15W

FCC ID: 2BU4I-DL15W

REPORT NO.: SZNTT26016393E1-1

ISSUE DATE: Jan. 19, 2026

Prepared for

Shanghai Arkadia Industrial Design Co., Ltd.

No. 557 Anchi Road, Anting Town, Jiading District, Shanghai, China

Prepared by

Shenzhen NTT Testing Technology Co.,Ltd.

1B, Building 2, Factory Building & 103, Building 3, Factory Building, Dayang Industrial Park, No.4, Industrial Avenue, Tangwei Community, Fuhai Sub-district, Bao 'an District, Shenzhen City, Guangdong, China

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TEST REPORT DESCRIPTION

Applicant : Shanghai Arkadia Industrial Design Co., Ltd.

Address : No. 557 Anchi Road, Anting Town, Jiading District, Shanghai, China

Manufacturer : Shanghai Arkadia Industrial Design Co., Ltd.

Address : No. 557 Anchi Road, Anting Town, Jiading District, Shanghai, China

EUT : Wireless Charger

Model Name : DL-15W

Trademark : /

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15, Subpart C	PASS

The above equipment was tested by Shenzhen NTT 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 C63.10-2020 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 15C

The test results of this report relate only to the tested sample identified in this report.

Prepared by(Test Engineer):
Zhao Di



Reviewer(Supervisor):
Ken Wu



Approved(Manager):
Abel Yu



Modified Information

Version	Report No.	Revision Data	Summary
Ver.1.0	SZNTT26016393E1-1	Jan. 19, 2026	Original Version

1. SUMMARY OF TEST RESULTS

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A(DC Supply)
Spurious Emission	15.209(a)(f)	Pass
20dB Bandwidth	15.215	Pass

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Wireless Charger

Model Number : DL-15W

Different : /

Model different : /

Power Rating : Input:
DC 12V
Output:
Wireless: 5W/7.5W/10W/15W

Operation : 111-205 KHz
Frequency for WPT

Modulation : ASK

Antenna Type: : Coil Antenna

Date of Received : Oct. 20, 2025

Date of Test : Oct. 20, 2025 to Jan. 19, 2026

2.2. Description of Support Units

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Wireless Charger	N/A	DL-15W	N/A	EUT
E-2	Phone	SAMSUNG	S24	N/A	Auxiliary

Note: (1)The support equipment was authorized by Declaration of Confirmation.
(2)For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.3. Independent Operation Modes

Mode	Description	Remark
1	EUT + Phone(Wireless Output:15W)	5%
2		50%
3		95%
4	EUT + Phone(Wireless Output:10W)	5%
5		50%
6		95%
7	EUT + Phone(Wireless Output:7.5W)	5%
8		50%
9		95%
10	EUT + Phone(Wireless Output:5W)	5%
11		50%
12		95%
Remark: All the modes have tested and recorded the worst mode in the report		

2.4. Test Mode

Test Items	Test Voltage	Operation Modes
RE	DC12V	Mode 1
Remark: All the modes have tested and recorded the worst mode in the report		

2.5. Description of Test Facility

Site Description

EMC Lab.: Designation Number: CN3446
Test Firm Registration Number: 129414
Accredited by ANAB, Dec. 19, 2025
The Certificate Registration Number is AT-3446

Name of Firm: Shenzhen NTT Testing Technology Co.,Ltd.

Site Location: 1B, Building 2, Factory Building & 103, Building 3, Factory Building, Dayang Industrial Park, No.4, Industrial Avenue, Tangwei Community, Fuhai Sub-district, Bao 'an District, Shenzhen City, Guangdong, China

2.6. Measurement Uncertainty

Item	MU	Remark
Uncertainty for radio frequency	$\pm 7 \times 10^{-8}$	
Conducted Emissions (150kHz~30MHz)	$\pm 3.64\text{dB}$	
Radiated Emission(9KHz~30MHz)	$\pm 4.51\text{dB}$	
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$	
Radiated Emission(1GHz~6GHz)	$\pm 3.92\text{dB}$	
Radiated Emission(6GHz~18GHz)	$\pm 4.33\text{dB}$	
Radiated Emission(18GHz~40GHz)	$\pm 3.38\text{dB}$	
Uncertainty for conducted RF Power	$\pm 0.20\text{dB}$	
Conducted spurious emissions	$\pm 0.24\text{dB}$	
Uncertainty for temperature	0.6°C	
Uncertainty for humidity	1%	
Bandwidth	$\pm 1.5 \times 10^{-6}$	
Time	$\pm 2\%$	
Duty Cycle	$\pm 2\%$	
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%		

3. MEASURING DEVICE AND TEST EQUIPMENT

Radiated Test Site(Below 1G and Above 1G)&RF Test Site

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
966 Shielded Room	966 Room	/	EMToni	2025/7/24	2028/7/23
EMI Test Receiver	ESCI	101018	RS	2025/9/8	2026/9/7
Amplifier (30MHz-1GHz)	BBV 9718D	00042	SCHWARZBECK	2025/9/8	2026/9/7
Bilog Antenna (30MHz-1GHz)	VULB9168	1858	SCHWARZBECK	2025/9/9	2026/9/8
Horn antenna (1GHz-18GHz)	BBHA 9120 D	02622	SCHWARZBECK	2025/9/9	2026/9/8
Preamplifier (1GHz-18GHz)	BBV 9718D	0024	SCHWARZBECK	2025/9/8	2026/9/7
Spectrum Analyzer (10Hz-40GHz)	FSV 40	100952	Rohde & Schwarz	2025/9/8	2026/9/7
Preamplifier (18GHz-40GHz)	BBV 9721	0056	SCHWARZBECK	2025/9/8	2026/9/7
Double Ridge Guide Horn Antenna (18GHz-40GHz)	SAS-574	588	A.H.System	2025/9/8	2026/9/7
Loop Antenna (9KHz-30MHz)	FMZB1519B	014	SCHWARZBECK	2025/9/8	2026/9/7
Amplifier (9KHz-30MHz)	CVP 9222 C	00109	SCHWARZBECK	2025/9/8	2026/9/7
MXG Signal Analyzer	N9020A	MY50510202	Agilent	2025/9/8	2026/9/7
MXG Vector Signal Generator	N5182A	MY50140020	Agilent	2025/9/8	2026/9/7
MXG Analog Signal Generator	N5181A	MY47420919	Agilent	2025/9/8	2026/9/7
Power Sensor	TR1029-2	512364	Techoy	2025/9/8	2026/9/7
RF Switch	TR1029-1	512364	Techoy	2025/9/8	2026/9/7
Cable	DA800- 4000MM	NA	DA	2025/9/8	2026/9/7
Cable	DA800- 11000MM	NA	DA	2025/9/8	2026/9/7

Test software



Item	Name	Manufacturer	Model	Software version
1	EMC radiation test system	Tonscend	TS+	V5.0.0
2	RF test system	TACHOY	RFTest	V1.0.0
3	RF communication test system	TACHOY	RFTest	V1.0.0

4. 20DB BANDWIDTH

4.1. Test Procedure

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 1kHz.

Set the video bandwidth (VBW) =3kHz.

Set Span= 10kHz

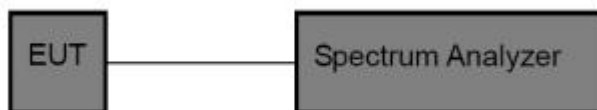
Set Detector = Peak.

Set Trace mode = Max hold.

Set Sweep = auto couple.

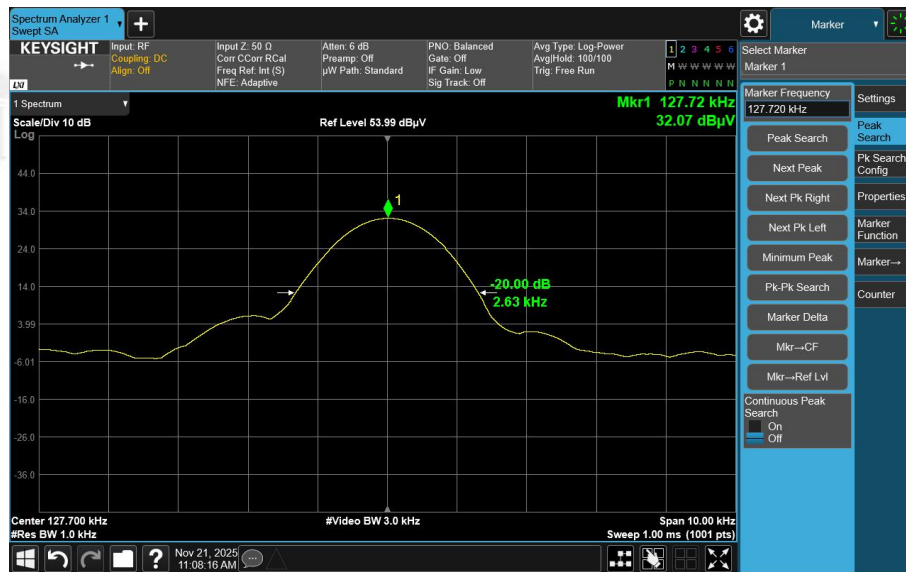
Measure and record the results in the test report.

4.2. Test Setup



4.3. Test Results

Frequency (KHz)	20dB bandwidth (Hz)	Result
127.7	2.63	Pass



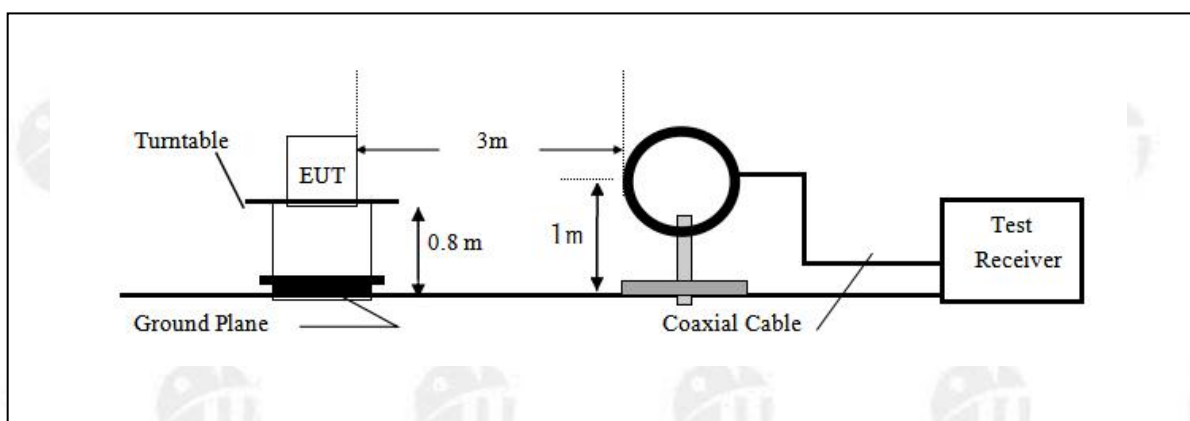
5. RADIATED EMISSION TEST

5.1.Measurement Procedure

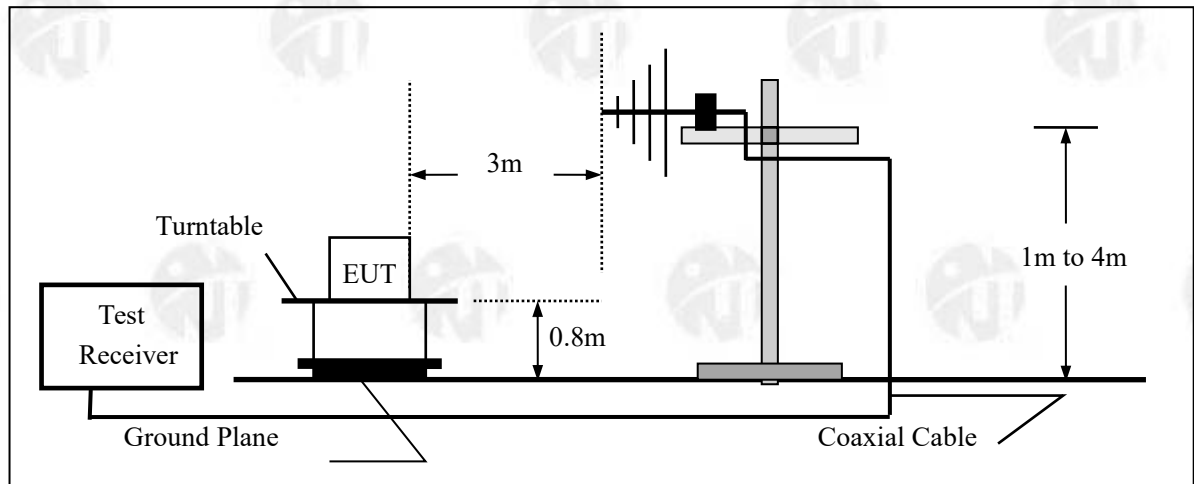
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.
5. Use the following receiver/spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured
RBW=200Hz for 9KHz to 150KHz,
RBW=9kHz for 150KHz to 30MHz,
RBW=120KHz for 30MHz to 1GHz
VBW $\geq 3 \times$ RBW
Sweep = auto
Detector function = QP
Trace = max hold

5.2.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



5.3. 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.

5.4.Measurement Result

Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Pol.	Coplanar
Test Voltage :	DC 12V	Mode:	Mode 1

Frequency (kHz)	Meter Reading (dBμV/m)	Factor (dB/m)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
0.010	17.09	20.15	37.24	127.86	90.62	
0.132	37.32	20.21	57.53	105.18	47.65	Peak
0.389	16.41	20.38	36.79	95.81	59.02	Peak
0.657	9.2	20.42	29.62	71.25	41.63	Peak
1.448	2.01	20.55	22.56	64.40	41.84	Peak
29.940	14.67	20.99	35.66	69.54	33.88	Peak

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

Margin = Limit - Emission Level

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Pol.	Coaxial
Test Voltage :	DC 12V	Mode:	Mode 1

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(kHz)	(dBμV/m)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	
0.132	40.93	20.12	61.05	105.18	44.13	Peak
0.389	58.73	20.22	38.51	95.81	57.30	Peak
0.911	55.47	20.36	35.11	68.42	33.31	Peak
2.538	55.29	20.48	34.81	69.54	34.73	Peak
11.165	59.9	20.66	39.24	69.54	30.30	Peak
22.612	70.11	21.18	48.93	69.54	20.61	Peak

Note:

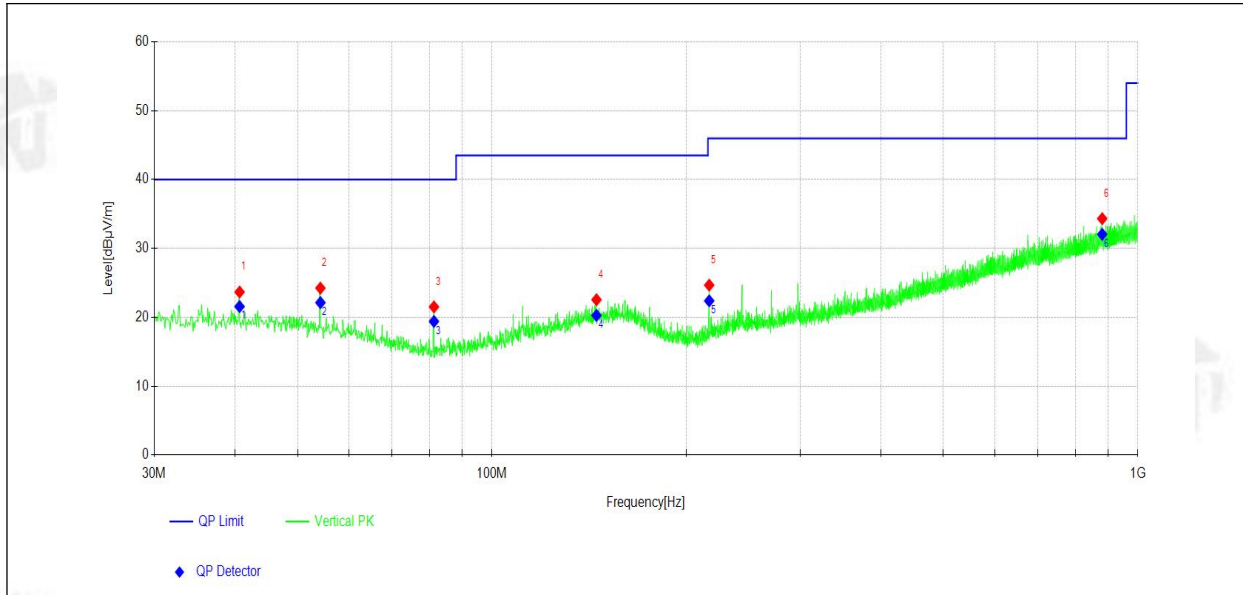
Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

Margin = Limit - Emission Level

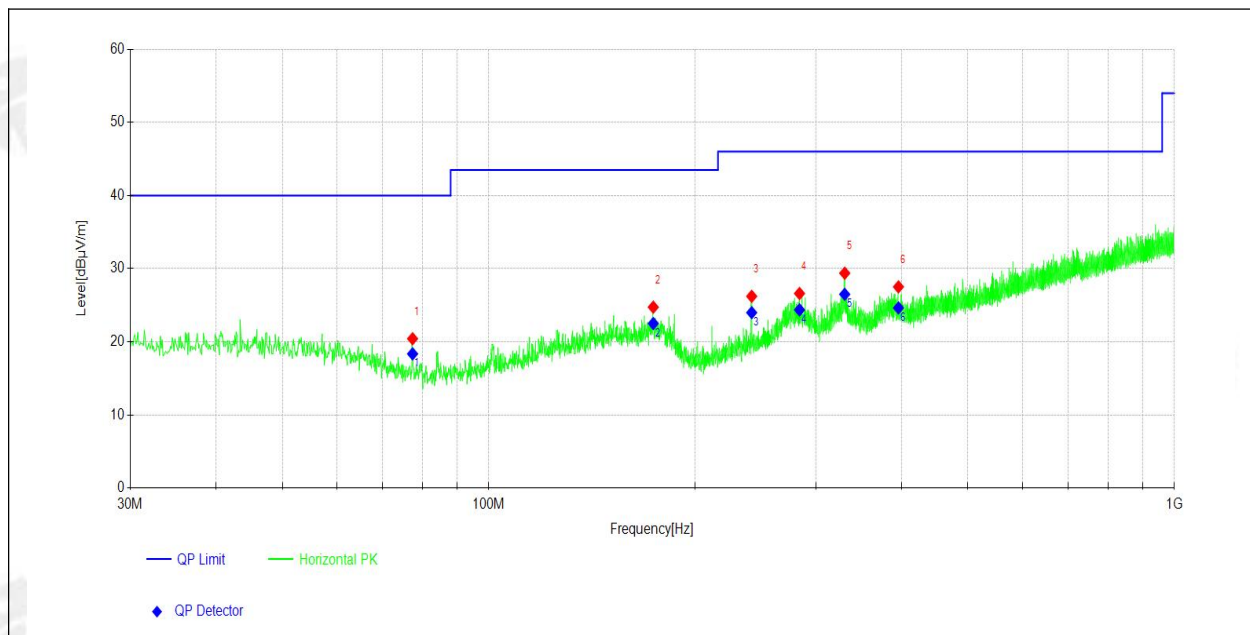
30MHz-1GHz:

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Mode:	Model 1



NO.	Freq. [MHz]	Reading (dBμV)	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Dertector
1	40.671	19.89	3.78	23.67	40.00	16.33	QP
2	54.252	19.15	5.09	24.24	40.00	15.76	QP
3	81.318	15.69	5.82	21.51	40.00	18.49	QP
4	145.151	20.32	2.23	22.55	43.50	20.95	QP
5	216.938	17.31	7.36	24.67	46.00	21.33	QP
6	880.581	29.40	4.93	34.33	46.00	11.67	QP

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Mode:	Model 1



NO.	Freq. [MHz]	Reading (dBμV)	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Dertector
1	77.438	1.83	16.53	18.36	40.00	21.64	QP
2	173.768	2.39	20.11	22.50	43.50	21.00	QP
3	241.869	4.89	19.10	23.99	46.00	22.01	QP
4	283.971	4.01	20.36	24.37	46.00	21.63	QP
5	330.536	4.97	21.53	26.50	46.00	19.50	QP
6	395.921	1.82	22.82	24.64	46.00	21.36	QP

Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.



6. TEST PHOTOGRAPHS AND EUT PHOTOGRAPHS

Please the attachment for details.

-----The end-----