

TEST REPORT

FCC ID:2BXIL-WCR30

Applicant..... : Shenzhen Newey Co., Limited

Address of Applicant..... : 5th Floor, Building 1, Huafeng Science Park, Fengtang Avenue, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Manufacturer..... : Shenzhen Newey Co., Limited

Address of Manufacturer..... : 5th Floor, Building 1, Huafeng Science Park, Fengtang Avenue, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Trademark..... : /

Product..... : POWER BANK

Model No..... : WCR30

Additional Model(s)..... : /

Model Difference..... : /

Prepared by..... : Guangdong Zhonghan Testing Technology Co., Ltd.

Address..... : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Date of Receipt..... : Aug. 12, 2026

Date of Test(s)..... : Aug. 12, 2026 - Sept. 8, 2026

Date of Issue..... : Sept. 23, 2026

Test Standard(s)..... : FCC Part 15 Subpart C 15.209
ANSI C63.10: 2020+Cor.1:2023+C63.10a: 2024+
Errata to C63.10a: 2024
KDB 558074 D01 15.247 Meas Guidance v05r02

Test Method..... : KDB 558074 D01 15.247 Meas Guidance v05r02

Conclusions..... : PASS

In the configuration tested, the EUT complied with the standards specified above.

Prepared by:

Kimi Lu

Kimi Lu/ Engineer

Reviewed by:

Camille Li

Camille Li/ Director

Approved by:

Levi Lee

Levi Lee/ Manager

Note: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document



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1. General Information

1.1 General Description of EUT (Equipment Under Test)

EUT Name	:	POWER BANK
Test Model No.	:	WCR30
Ratings	:	Capacity:DC 3.85V, 4800mAh, 18.48Wh Input USB-C:DC 5V/3A, DC 9V/2A, DC 12V/1.5A-PD20W Output USB-C:DC 5V/3A, DC 9V/2.22A, DC 12V/1.67A-20W Wireless Output: 15 Watt Max
Operation frequency	:	Phone: 115-205kHz, 360±2kHz Earbud: 115-205kHz watch: 320-330kHz
Modulation Type	:	ASK
Antenna Type	:	Coil Antenna
Antenna Gain	:	0dBi
Hardware Version	:	V1.0
Software Version	:	V1.0
Sample Number:	:	260812109YP001

Remark:The antenna gain provided by the applicant, if the data provided by the applicant is not accurate, Guangdong Zhonghan Testing Technology Co., Ltd. does not assume any responsibility.

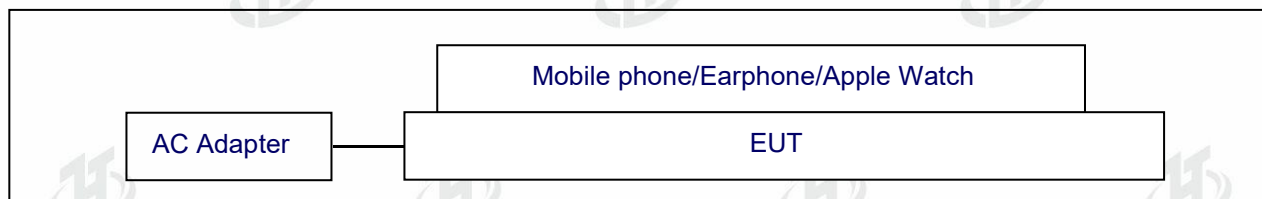
Note:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

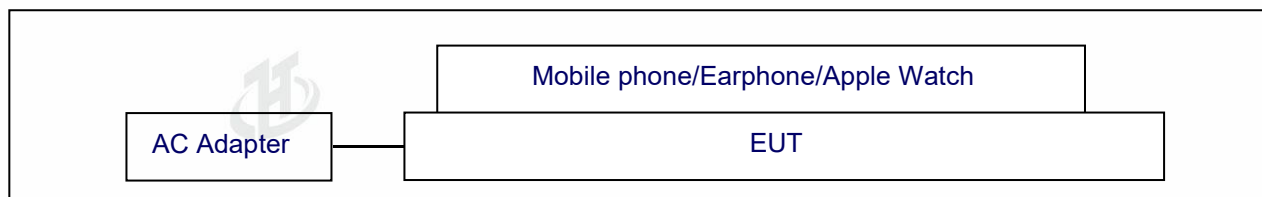


1.2 Block Diagram Showing the Configuration of System Test

Radiated Measurements Test



Conducted Measurements Test



1.3 Support Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	AC Adapter	iforg	191106C	/	AE
E-2	Mobile phone	Apple Inc.	iPhone 16 PLUS	/	AE
E-3	Earphone	Apple	A2031	/	AE
E-4	Apple Watch	Apple Inc.	ultra 2	/	AE

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

**1.4 Description of Test Mode**

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Final Test Mode	Description
Mode 1	AC Mains + Phone charging port(Battery Status: $\leq 1\%$)(115-205kHz)-5 W
Mode 2	AC Mains + Phone charging port(Battery Status:50%)(115-205kHz)-5 W
Mode 3	AC Mains + Phone charging port(Battery Status: $\geq 98\%$)(115-205kHz)-5 W
Mode 4	AC Mains + Phone charging port(Battery Status: $\leq 1\%$)(115-205kHz)-7.5 W
Mode 5	AC Mains + Phone charging port(Battery Status:50%)(115-205kHz)-7.5 W
Mode 6	AC Mains + Phone charging port(Battery Status: $\geq 98\%$)(115-205kHz)-7.5 W
Mode 7	AC Mains + Phone charging port(Battery Status: $\leq 1\%$)(115-205kHz)-10 W
Mode 8	AC Mains + Phone charging port(Battery Status:50%)(115-205kHz)-10 W
Mode 9	AC Mains + Phone charging port(Battery Status: $\geq 98\%$)(115-205kHz)-10 W
Mode 10	Phone charging port(Battery Status: $\leq 1\%$)(115-205kHz)-5 W
Mode 11	Phone charging port(Battery Status:50%)(115-205kHz)-5 W
Mode 12	Phone charging port(Battery Status: $\geq 98\%$)(115-205kHz)-5 W
Mode 13	Phone charging port(Battery Status: $\leq 1\%$)(115-205kHz)-7.5 W
Mode 14	Phone charging port(Battery Status:50%)(115-205kHz)-7.5 W
Mode 15	Phone charging port(Battery Status: $\geq 98\%$)(115-205kHz)-7.5 W
Mode 16	Phone charging port(Battery Status: $\leq 1\%$)(115-205kHz)-10 W
Mode 17	Phone charging port(Battery Status:50%)(115-205kHz)-10 W
Mode 18	Phone charging port(Battery Status: $\geq 98\%$)(115-205kHz)-10 W
Mode 19	Phone charging port(Battery Status: $\leq 1\%$)(115-205kHz)-EPP15 W
Mode 20	Phone charging port(Battery Status:50%)(115-205kHz)-EPP15 W
Mode 21	Phone charging port(Battery Status: $\geq 98\%$)(115-205kHz)-EPP15 W
Mode 22	Phone charging port(Battery Status: $\leq 1\%$)(360 $\pm$ 2kHz)-MPP15 W
Mode 23	Phone charging port(Battery Status:50%)(360 $\pm$ 2kHz)-MPP15 W
Mode 24	Phone charging port(Battery Status: $\geq 98\%$)(360 $\pm$ 2kHz)-MPP15 W
Mode 25	Earphone charging port(Battery Status: $\leq 1\%$)(115-205kHz)-5W
Mode 26	Earphone charging port(Battery Status:50%)(115-205kHz)-5W
Mode 27	Earphone charging port(Battery Status: $\geq 98\%$)(115-205kHz)-5W
Mode 28	Watch charging port -(Battery Status: $\leq 1\%$)(320-330 kHz)-2.5 W
Mode 29	Watch charging port -(Battery Status:50%)(320-330 kHz)-2.5 W
Mode 30	Watch charging port -(Battery Status: $\geq 98\%$)(320-330 kHz)-2.5 W
Mode 31	Standby



1.5 Description of Test Software Setting

During testing channel & Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF setting.

Test Software Version:N/A



1.7 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

No.	Item	Uncertainty
1	Conducted Emission Test	0.92dB
2	RF conducted power	0.27dB
3	Conducted spurious emissions	0.21dB
4	All radiated emissions (9k-30MHz)	1.68dB
5	All radiated emissions (30-1GHz)	5.1dB
6	All radiated emissions (1-6GHz)	3.9dB
7	All radiated emissions (6GHz-18GHz)	4.3dB
8	All radiated emissions (18-40GHz)	4.65dB
9	Temperature	0.5°C
10	Humidity	2%
11	Occupied Bandwidth	4.96%
12	Power Spectral Density	0.71dB

Decision Rule

- ☒ Uncertainty is not included
☐ Uncertainty is included

1.8 Test Facility

Guangdong Zhonghan Testing Technology Co., Ltd.
Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China



2. Test Results Summary

FCC Part 15 Subpart C(15.209)			
Standard Section	Test Item	Judgment	Remark
15.203	Antenna Requirement	PASS	N/A
15.207(a)	Conducted Emission	PASS	N/A
15.209(a)(f)	Radiated emissions	PASS	N/A
15.215	Bandwidth	PASS	N/A
Note: N/A is an abbreviation for Not Applicable.			

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Radiated Emission	EZ-EMC	EZ	FA-03A2 RE+
RF Conducted Measurement	MTS 8310	MWRFtest	4.0.0.0



4. Test Equipment

Radiation Test equipment

Equipment	Manufacturer	Model	Serial No.	Equipment No.	Last Cal.	Next Cal.
Receiver	R&S	ESCI	100874	ZH-E005	Apr. 24, 2026	Apr. 23, 2027
Loop Antenna	TESEQ	HLA6121	58357	ZH-E036	July 10, 2026	July 9, 2027
Amplifier	Schwarzbeck	BBV 9743 B	00378	ZH-E019	Apr. 24, 2026	Apr. 23, 2027
Amplifier	Schwarzbeck	BBV 9718 B	00040	ZH-E021	May 8, 2026	May 7, 2027
Bilog Antenna	Schwarzbeck	VULB9162	00498	ZH-E017	Apr. 25, 2026	Apr. 24, 2027
Horn Antenna	Schwarzbeck	BBHA9120D	02623	ZH-E020	Apr. 25, 2026	Apr. 24, 2027
Horn Antenna	A.H.SYSTEMS	SAS574	588	ZH-E062	Oct. 20, 2025	Oct. 19, 2026
Amplifier	AEROFLEX	100KHz-40GHz	097	ZH-E063	Oct. 20, 2025	Oct. 19, 2026
Spectrum Analyzer	R&S	FSV40	101413	ZH-E064	Apr. 24, 2026	Apr. 23, 2027
Spectrum Analyzer	KEYSIGHT	N9020A	MY53420208	ZH-E032	Apr. 24, 2026	Apr. 23, 2027
WIDBAND RADIO COMMUNICATION TESTER	R&S	CMW500	109863	ZH-E033	Apr. 24, 2026	Apr. 23, 2027
Single Generator	Agilent	N5182A	MY48180575	ZH-E034	Apr. 24, 2026	Apr. 23, 2027
CABLE	EMToni	DA800-NM-NM-11000MM	/	ZH-E018	Apr. 24, 2026	Apr. 23, 2027

Conduction Test equipment

Equipment	Manufacturer	Model	Last Cal.	Next Cal.		
Receiver	R&S	ESCI	100874	ZH-E005	Apr. 24, 2026	Apr. 23, 2027
LISN	R&S	ENV216	102794	ZH-E006	Jul. 8, 2026	Jul. 7, 2027
ISN CAT 6	Schwarzbeck	NTFM 8158	00318	ZH-E012	Apr. 24, 2026	Apr. 23, 2027
ISN CAT 5	Schwarzbeck	CAT5 8158	00343	ZH-E013	Apr. 24, 2026	Apr. 23, 2027
Capacitive Voltage Probe	Schwarzbeck	CVP 9222C	00101	ZH-E014	May 8, 2026	May 7, 2027
Current Transformer Clamp	Schwarzbeck	SW 9605	SW9605 #209	ZH-E015	May 8, 2026	May 7, 2027
CABLE	EMToni	RG223-NM-BNCM-2000MM	/	ZH-E007	Apr. 24, 2026	Apr. 23, 2027
USBC-C cable	Xiaomi	C-C 1M	/	/	Apr. 24, 2026	Apr. 23, 2027

RF Conducted Test equipment

Spectrum Analyzer	KEYSIGHT	N9020A	MY53420208	ZH-E032	Apr. 24, 2026	Apr. 23, 2027
Power Sensor	MWRFTtest	MW100-RFCB	/	ZH-E066	Apr. 24, 2026	Apr. 23, 2027
DC power supply	R&S	SMB100A	259098	/	Apr. 15, 2026	Apr. 14, 2027
Constant Temperature and Humidity Test Chamber	OJN	OJN-9606	/	/	Apr. 15, 2026	Apr. 14, 2027



5. Conducted Emission

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15.207

5.1.2 Test Limit

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

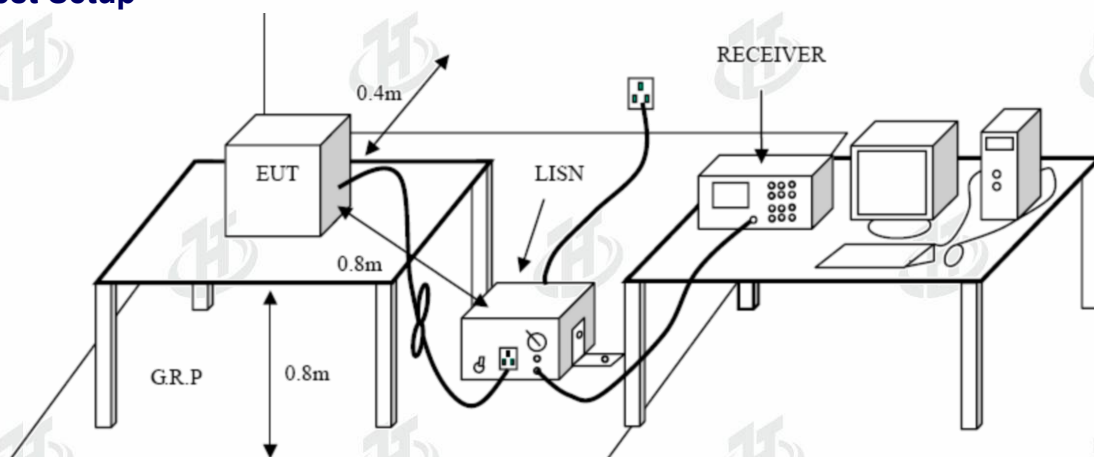
Notes:

(1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.2 Test Setup



5.3 Test procedure

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- The bandwidth of EMI test receiver is set at 9 kHz, and the test frequency band is from 0.15MHz to 30MHz.

5.4 Deviation From Test Standard

No deviation

5.5 EUT Operating Mode

Please refer to the description of test mode.

5.6 Test Data

Please refer to the Attachment A inside test report.



6. Radiated Emissions

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.209

6.1.2 Test Limit

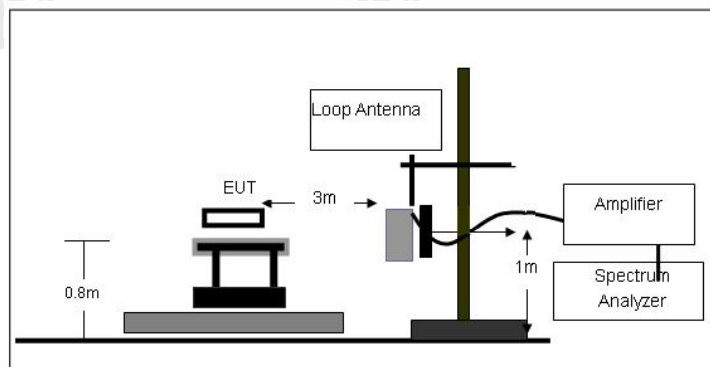
General field strength limits at frequencies Below 30MHz		
Frequency (MHz)	Field Strength (microvolt/meter)**	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
Note: 1, The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.		

General field strength limits at frequencies above 30 MHz		
Frequency (MHz)	Field strength (μV/m at 3 m)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

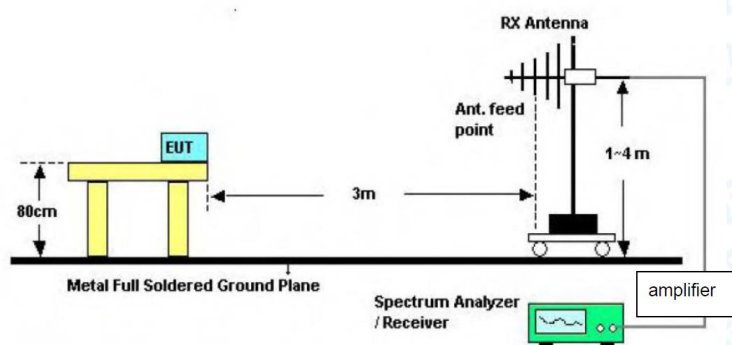
General field strength limits at frequencies Above 1000MHz		
Frequency (MHz)	Distance of 3m (dBuV/m)	
	Peak	Average
Above 1000	74	54
Note: (1) The tighter limit applies at the band edges. (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)		

6.2 Test Setup

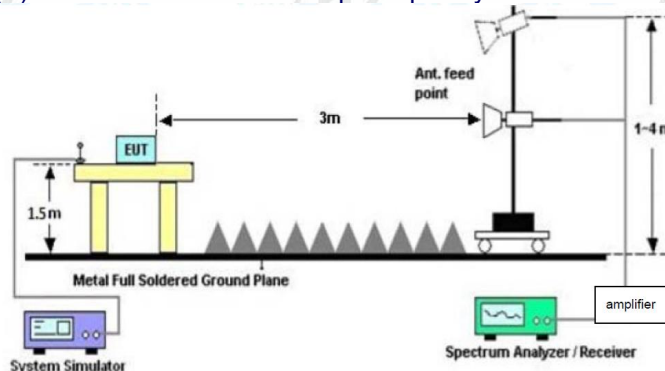
Radiated measurement



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



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz

6.3 Test procedure

(1) Measurements at frequency 9KHz~30MHz and Below 1GHz. The EUT was placed on a rotating 0.8m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The table was rotated 360 degrees to determine the position of the highest radiation.

(2) 9KHz~30MHz the test antenna 1m away from the ground, Both 0° and 90° antenna are set to make measurement.

Below 1GHz the test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

(3) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

(4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Below 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.



(5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.

(6) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

(7) For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW= 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW= 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep-auto couple

(8) For the actual test configuration, please see the test setup photo.

6.4 Deviation From Test Standard

No deviation

6.5 EUT Operating Mode

The Equipment Under Test was set to Continual Transmitting in maximum power.

6.6 Test Data

Please refer to the Attachment B inside test report.



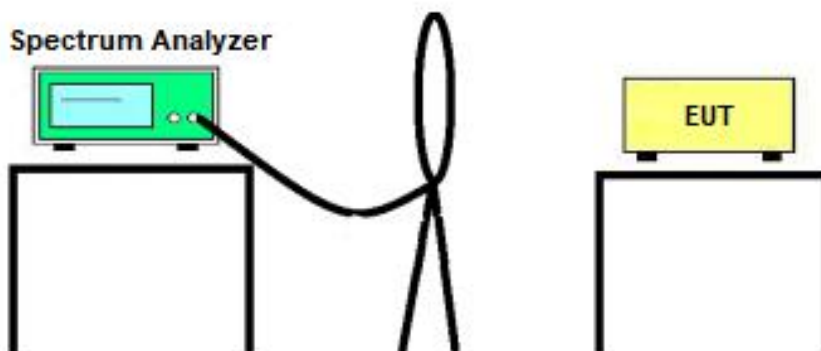
7. Bandwidth Measurement

7.1 Test Standard and Limit

7.1.1 Test Standard

FCC Part 15.215

7.2 Test Setup



7.3 Test Procedure

1. The transmitter shall be operated at its maximum carrier power measured under normal test conditions;
2. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
3. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Mode

The Equipment Under Test was set to Continual Transmitting in maximum power.

7.6 Test Data

Please refer to the Attachment C inside test report.



8. Antenna Requirement

8.1 Test Standard and Limit

8.1.1 Test Standard
FCC Part 15.203

8.1.2 Test Limit

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

8.2 Deviation From Test Standard

No deviation

8.3 Antenna Connected Construction

The gains of the antenna used for transmitting is 0dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

8.4 Test Data

The EUT antenna is a Coil Antenna. It complies with the standard requirement.

Antenna Type
☒ Permanent attached antenna
☐ Unique connector antenna
☐ Professional installation antenna



9. Test Setup Photos

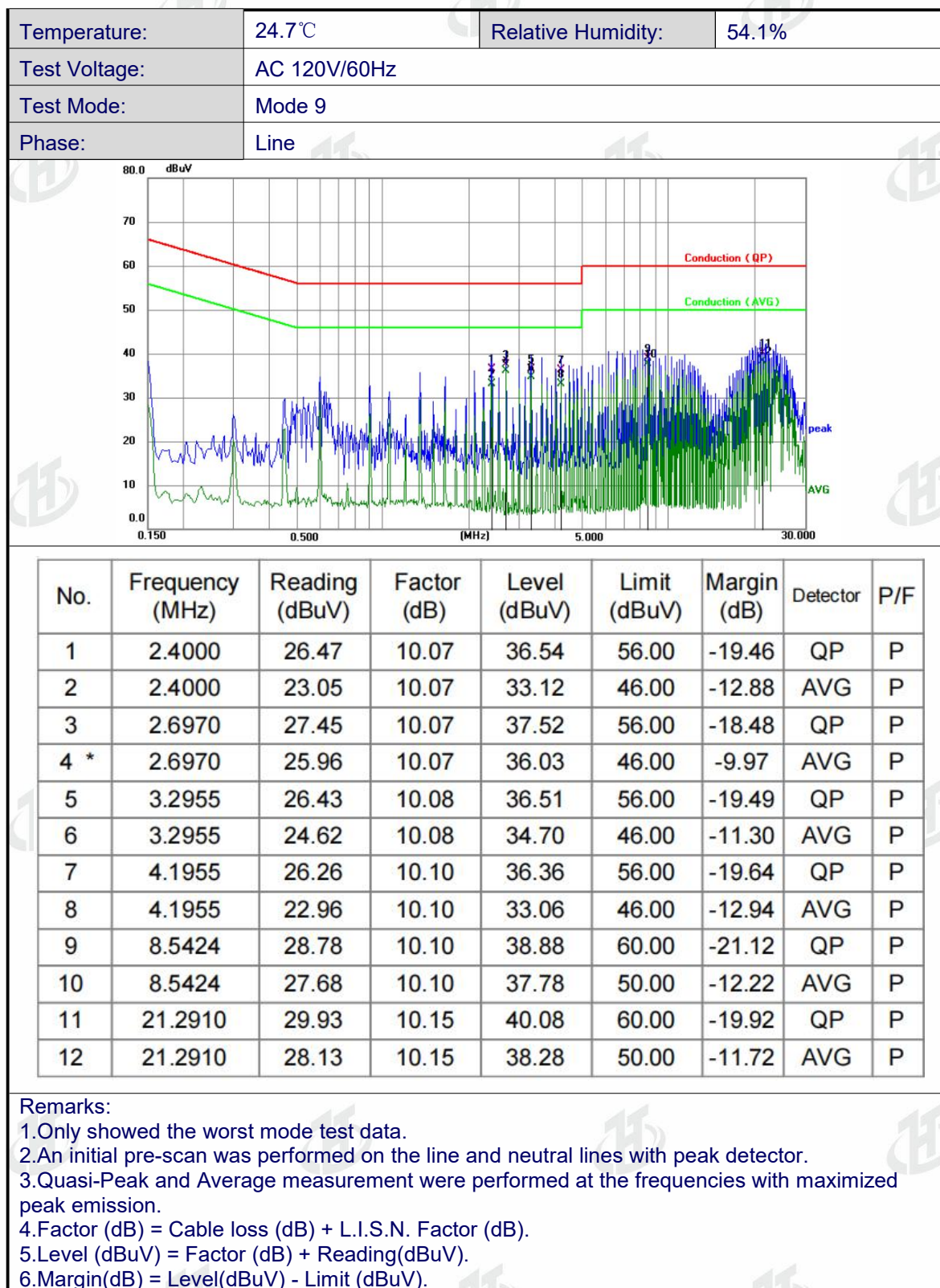
Reference to the appendix I for details.

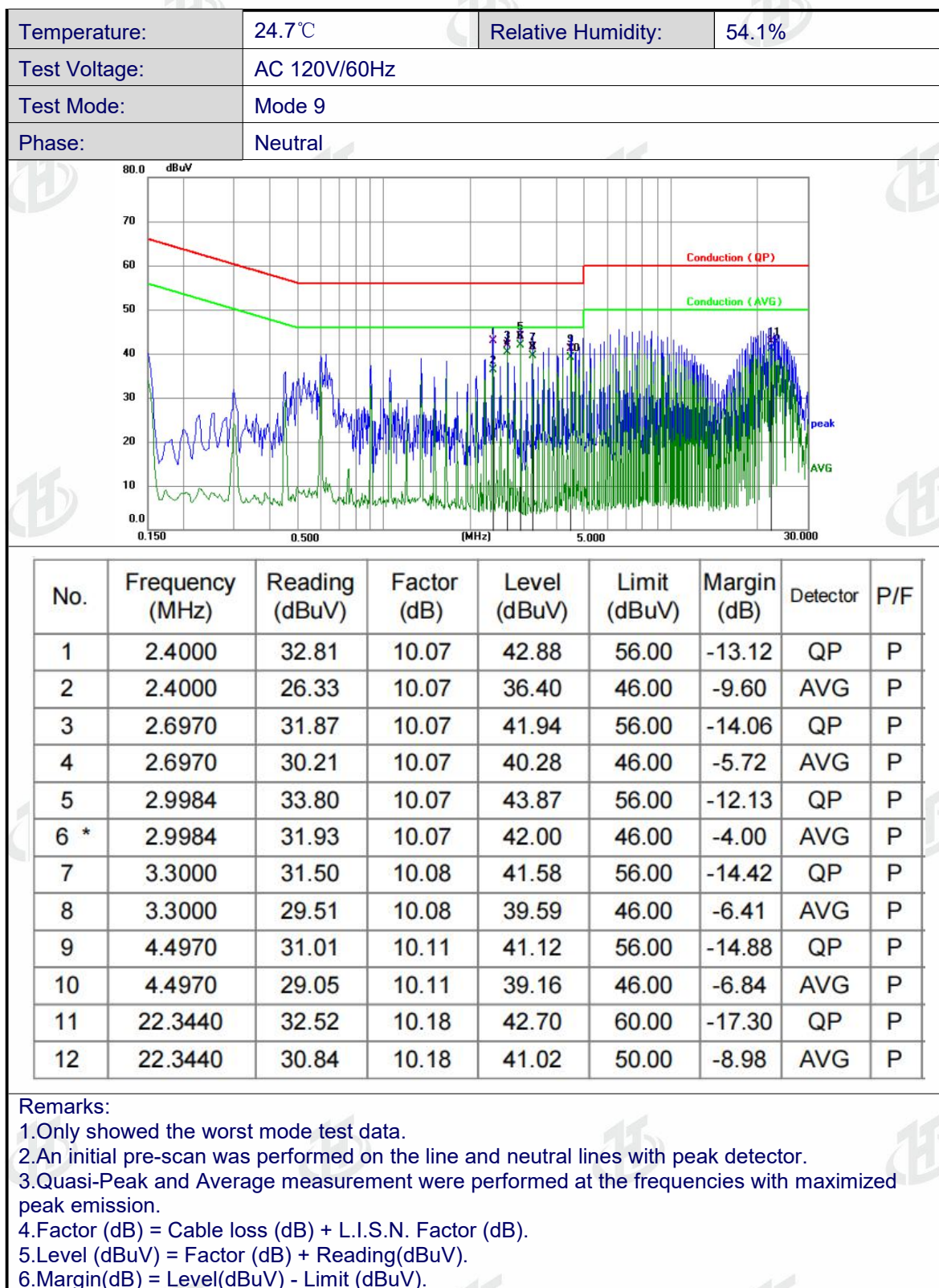
10. EUT Photos

Reference to the appendix II for details.



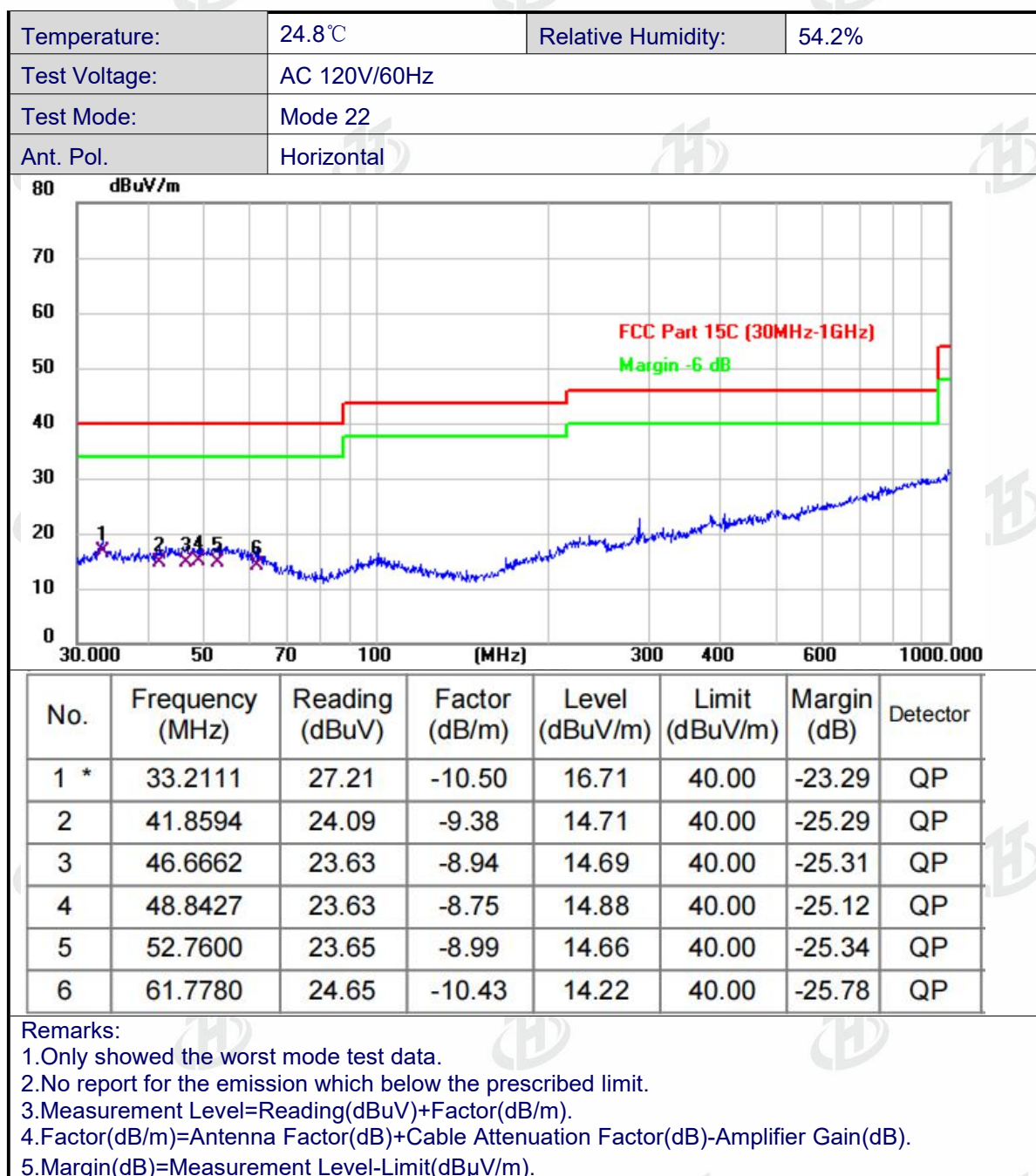
Attachment A--Conducted Emission Test Data

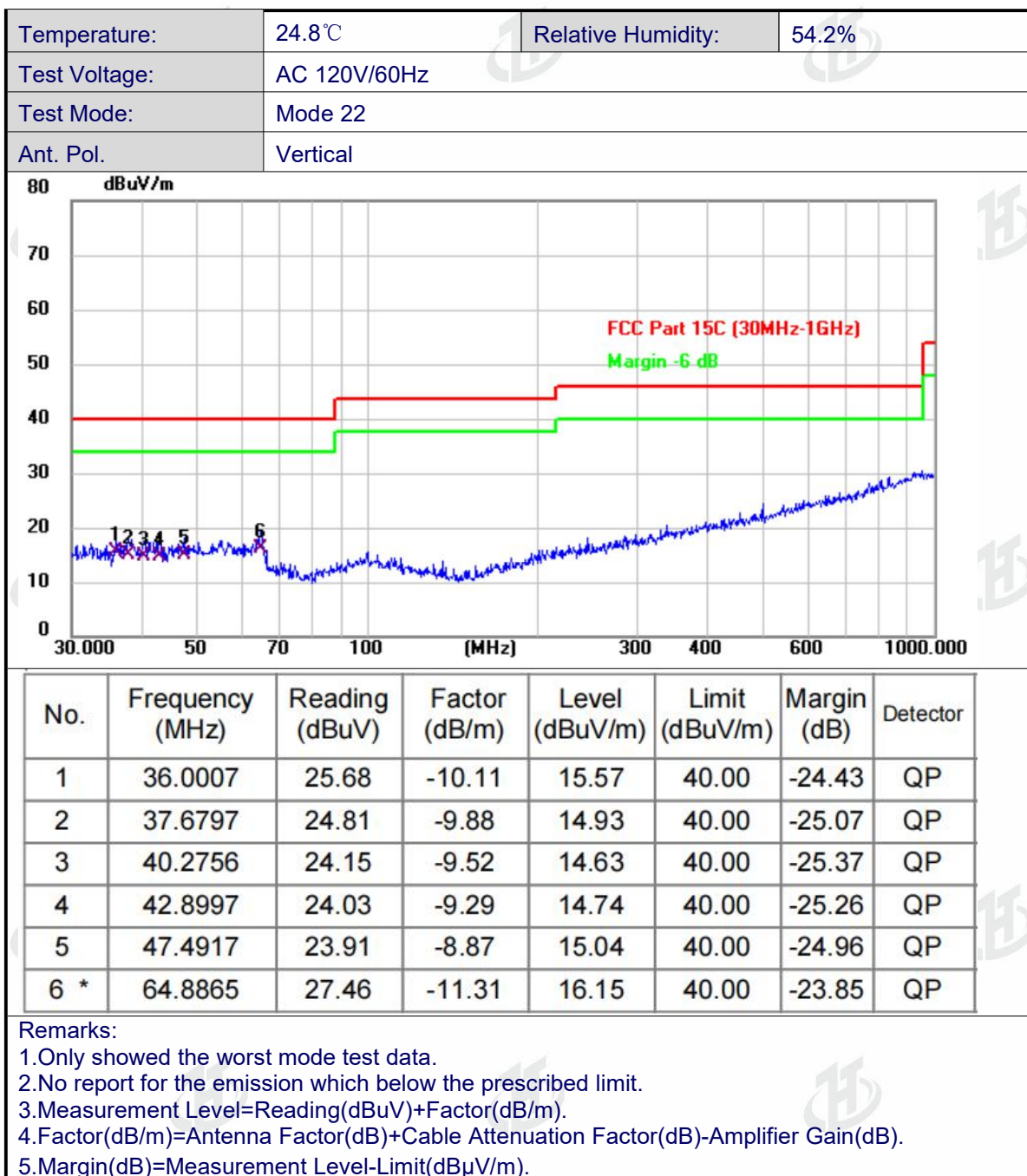




**Attachment B--Unwanted Emissions Data**

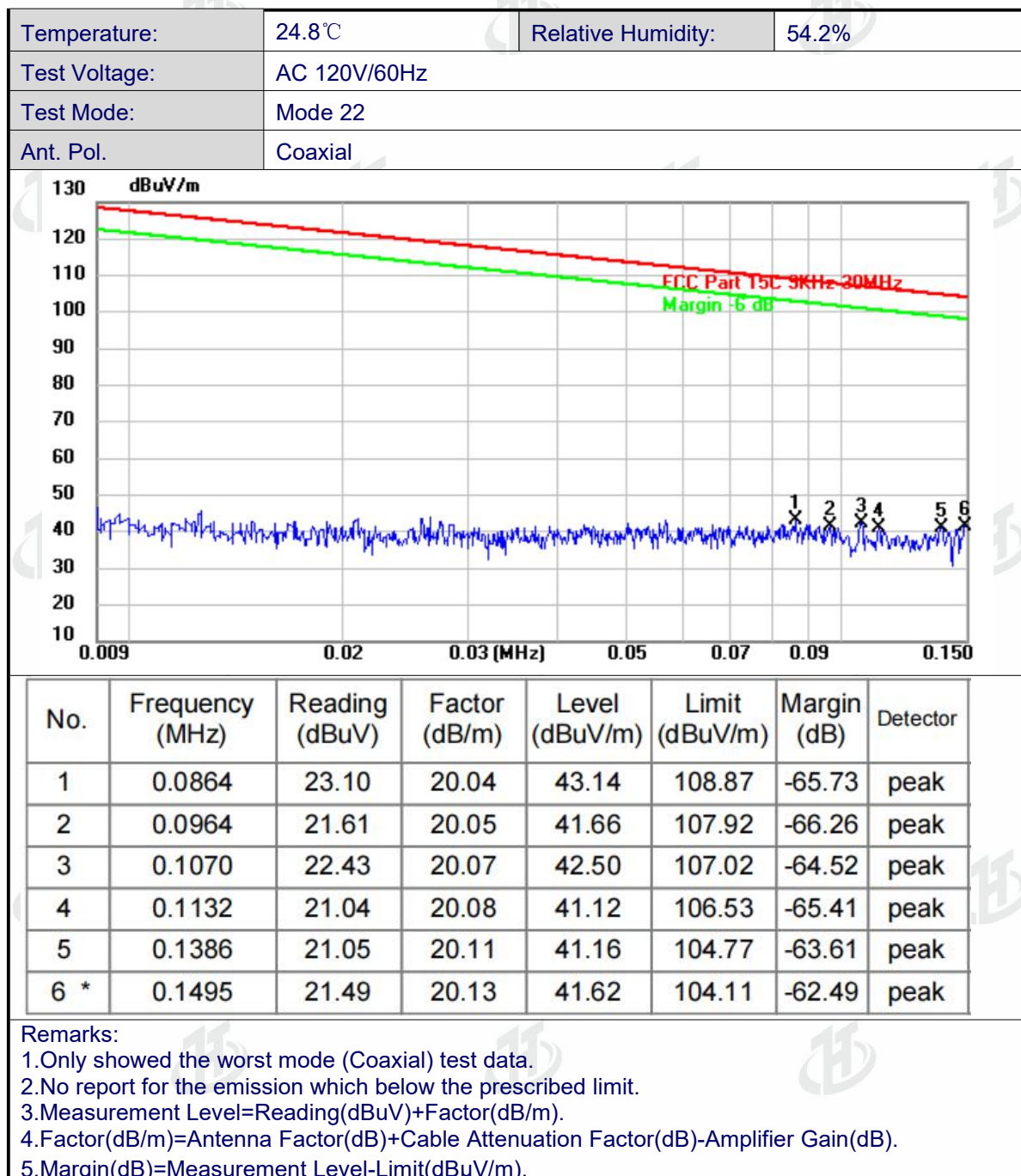
30MHz~1GHz

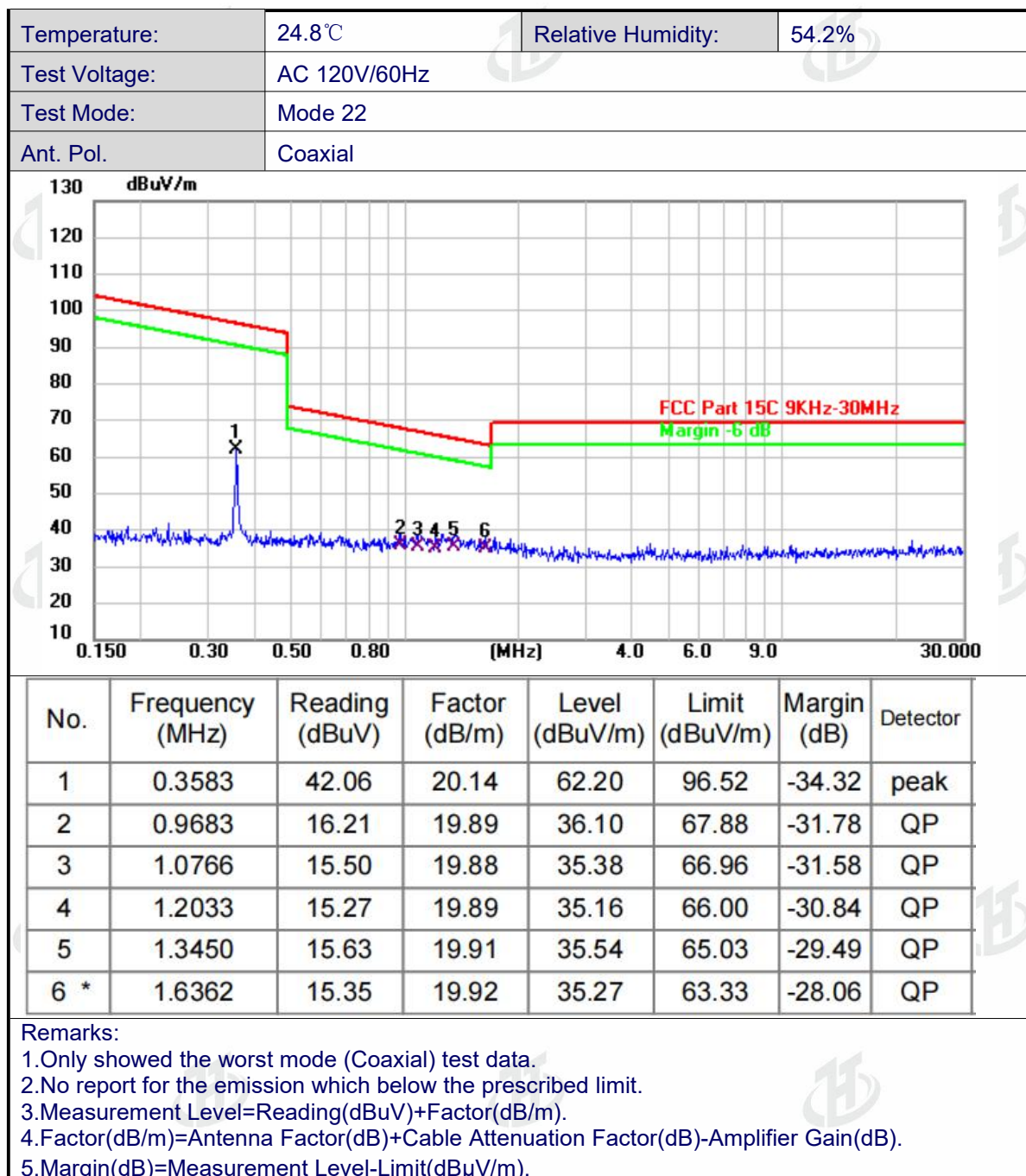






9KHz~30MHz

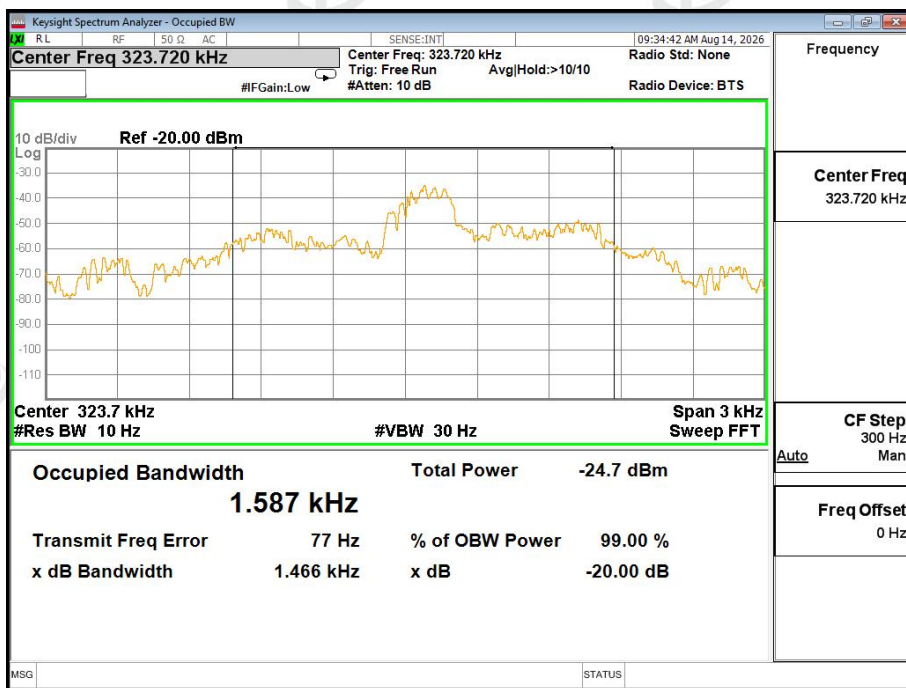
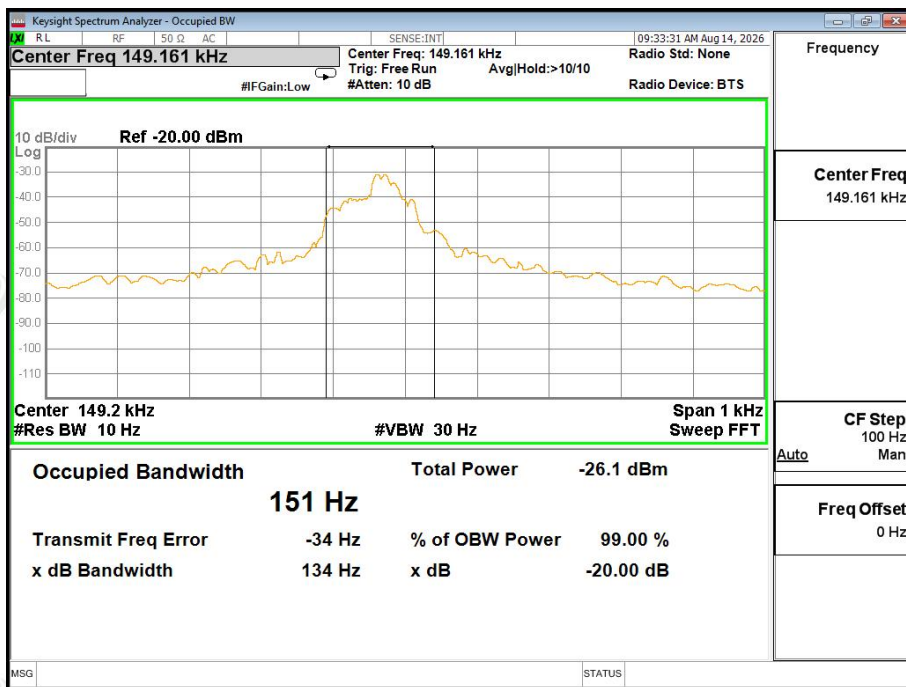




**Attachment C--Bandwidth Measurement Data**

Coil	Frequency (KHz)	20 dBc Bandwidth (kHz)	99% OBW (kHz)	Result
Phone (360±2kHz)	358.3	0.267	0.328	PASS
Phone (115-205kHz)	126	0.164	0.256	PASS
Earbud (115-205kHz)	149.2	0.134	0.151	PASS
Watch (320-330kHz)	323.7	1.466	1.587	PASS





Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 10 Hz to perform the 20dB bandwidth test.

End of report