

# RADIO TEST REPORT

## (FCC Part 15 Subpart C)


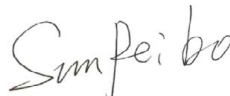
Applicant:	HMD Global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland

Manufacturer:	HMD Global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland
Product:	Mobile phone
Brand Name:	HMD
Model Name:	H1715V
FCC ID:	2AJOTTA-1715
Date of tests:	Jan. 13, 2025 ~ Mar. 20, 2025

The tests have been carried out according to the requirements of the following standard:

- ☒ **Part 15 Subpart C §15. 225**
- ☒ **RSS-Gen Issue 5, Amendment 2 (February 2021)**
- ☒ **ANSI C63.10-2020**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
 Date: Mar. 20, 2025	 Date: Mar. 20, 2025

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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## REPORT REVISE RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-NQN2412090210RF13	Original release	Mar. 20, 2025



## SUMMARY OF TEST RESULT

FCC Rule	IC Rule	Description	Limit	Result	Remark
-	RSS-Gen 6.7	99% Bandwidth	-	Pass	-
15.225(a)(b)(c)	RSS-210 Annex B.6	Field Strength of Fundamental Emissions	15.225(a)(b)(c) RSS-210 Annex B.6	Pass	-
15.215	-	20dB Spectrum Bandwidth	15.215	Pass	-
15.225(d) 15.209	RSS-210 Annex B.6	Radiated Emission	15.225(d) & 15.209 RSS-210 Annex B.6	Pass	-
15.207	RSS-GEN 8.8	AC Conducted Emission	15.207(a)	Note	
15.225(e)	Annex B.6	Frequency Stability	< ±100 ppm	Pass	-
15.203	RSS-Gen 6.8	Antenna Requirement	N/A	Pass	-

### \*Test Lab Information Reference

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

#### Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

**Accredited Test Lab Cert 6613.01**

The FCC Site Registration No. is 434559; The Designation No. is CN1325.



# 1 GENERAL DESCRIPTION

## 1.1 GENERAL DESCRIPTION OF EUT

Items	Description
<b>Tx/Rx Frequency Range</b>	13.559MHZ-13.561MHZ
<b>Channel Number</b>	1
<b>20dBW</b>	2.49 kHz
<b>99%OBW</b>	2.361 kHz
<b>Antenna Type</b>	coil Antenna
<b>Type of Modulation</b>	ASK
<b>HW VERSION</b>	V1.0
<b>SW VERSION</b>	000T_0_310

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

**NOTE:** Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.

TTThe differences between the sample 1 and sample 2 as Listings below, others are the same. And only the worst case was shown in the test report.

Object	Sample 1 1 <sup>st</sup> source		Sample 2 2 <sup>nd</sup> source	
	Specifications	Supplier	Specifications	Supplier
<b>Display</b>	JL-P067P003-05	Jinglong	Y92321	Digital
<b>Memory (RAM)</b>	FLXC2004G-N1	Longsys	BWCGBX32N2A-32G	Biwin
<b>Memory (ROM)</b>	MEMDNN064G-M1D03	Longsys	BWCTAMV11X64G	Biwin
<b>Motor</b>	C0830H-C138ZN-021	KunWang	CY0830-05-FPC-182	Chaoying
<b>FPS Side fingerprint</b>	SA-FC15X00-1470-B0	Shenao	HT.ZN-2832B	Huate
<b>Mic</b>	SM2718B381YR2-01	Rayking	S150B381-155	Goertek
<b>GPS LNA</b>	AW5005EDNR	AWINIC	WS7916DE	WILL



**List of Accessory:**

<b>ACCESSORIES</b>	<b>BRAND</b>	<b>MANUFACTURER</b>	<b>MODEL</b>	<b>SPECIFICATION</b>
Battery	HMD	HUNAN GAOYUAN BATTERY CO.,LTD	CH426385	Capacity : 3.87Vdc, 4000mAh
USB Cable	Saibao	Saibao (Jiangxi) Industry Co.,Ltd.	SZN-A046A	Signal Line,1.0meter
USB Cable	Juwei	Huizhou Juwei Electronics Co.,Ltd	JWUB1913- ZN01H	Signal Line,1.0meter
Adapter	HMD	Shenzhen Baijunda Electronic Co., Ltd.	HAD-010U	I/P: 100 - 240 Vac, 50/60Hz, 0.35 A, O/P: 5.0 Vdc, 2.0 A 10.0W



## 1.2 MODIFICATION OF EUT

No modifications are made to the EUT during all test items.

## 1.3 APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.225
- ♦ ANSI C63.10-2020
- ♦ RSS-210 Issue 10
- ♦ RSS-Gen Issue 5





## 2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

### 2.1 DESCRIPTIONS OF TEST MODE

Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

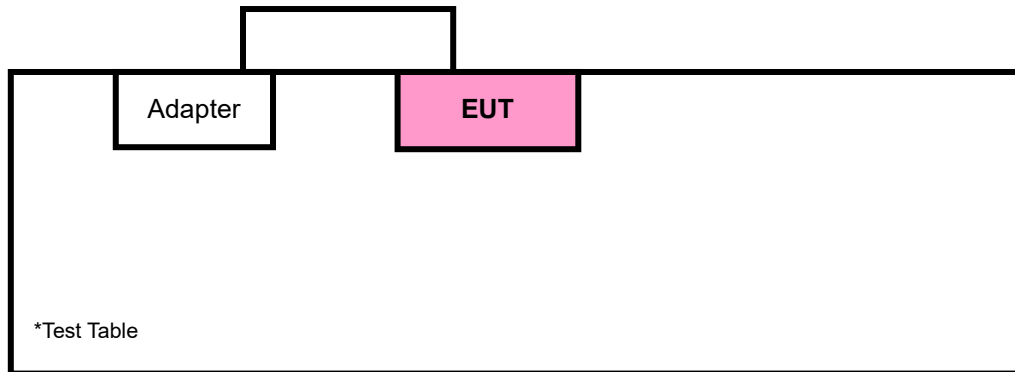
Test Items	
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions
20dB Spectrum Bandwidth	Frequency Stability
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz
<b>Note:</b> <ol style="list-style-type: none"> <li>The EUT was programmed to be in continuously transmitting mode.</li> <li>The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmit at 13.56MHz and is placed around 3 cm gap to the EUT.</li> <li>Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, work in modes and data rates. Selected for the final test as listed below.</li> </ol>	

Frequency	Work in Modes	Type	Data Rate (Kbps)
13.56 MHz	<input type="checkbox"/> Card Emulation	<input checked="" type="checkbox"/> A	<input type="checkbox"/> 106
	<input type="checkbox"/> Reader/Writer	<input checked="" type="checkbox"/> B	<input checked="" type="checkbox"/> 212
	<input checked="" type="checkbox"/> Peer-to-Peer	<input checked="" type="checkbox"/> F	<input type="checkbox"/> 424
		<input checked="" type="checkbox"/> V	<input type="checkbox"/> 848
<b>Remark:</b> The mark " <input checked="" type="checkbox"/> " means is chosen for testing; The mark " <input type="checkbox"/> " means is not chosen for testing.			

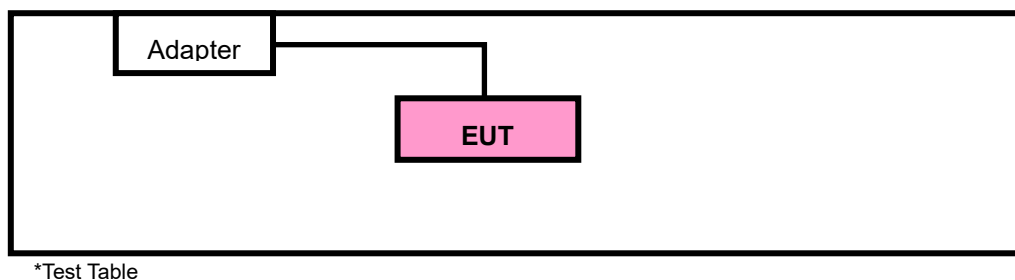


## 2.2 TEST CONFIGURATIONS

### <AC Conducted Emissions>



### < For Fundamental Emissions and Mask and Radiated Emissions Measurement >



\* Kept in a remote area



## 2.3 SUPPORT EQUIPMENT

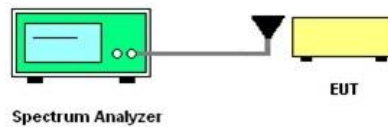
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	N/A	N/A	N/A	N/A	N/A

## 2.4 TEST SETUP

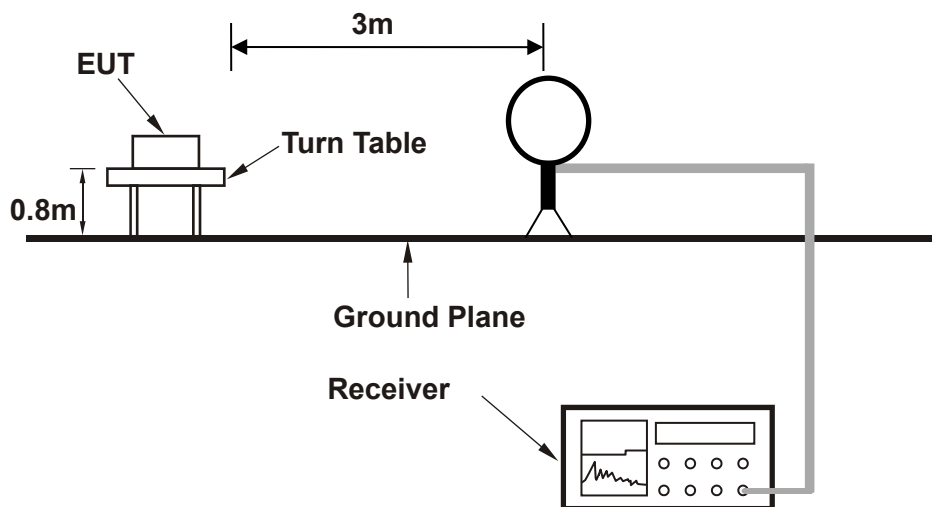
The EUT is continuously communicating during the tests.

EUT was set in the Hidden menu mode to enable NFC communications.

**Setup diagram for Conducted Test**

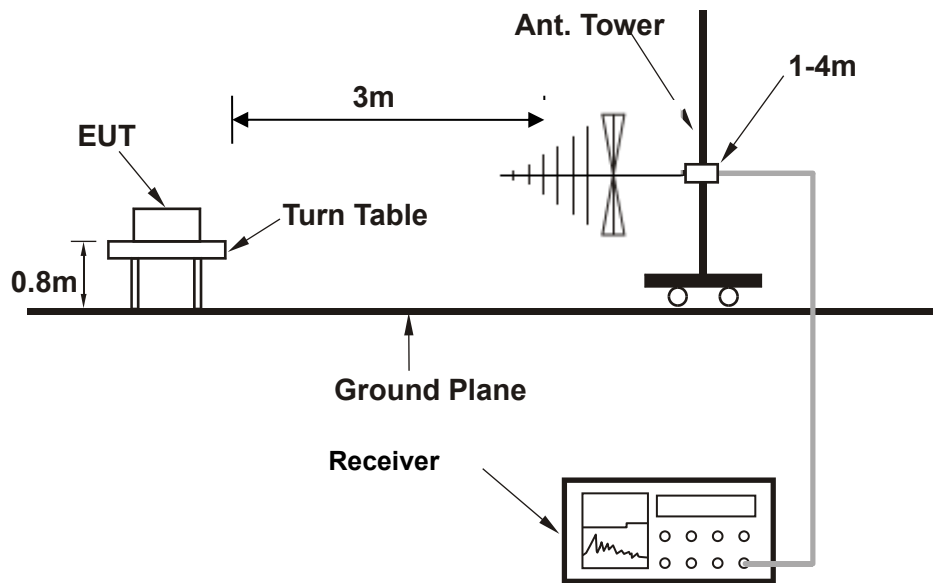


**Setup diagram for Radiation(9KHz~30MHz) Test**





**Setup diagram for Radiation(Below 1G) Test**





## 2.5 MEASUREMENT RESULTS EXPLANATION EXAMPLE

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 5 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 5 + 10 = 15 \text{ (dB)}\end{aligned}$$



### 3 TEST RESULT

#### 3.1 20DB AND 99% BANDWIDTH MEASUREMENT

##### 3.1.1 LIMIT OF 20DB AND 99% BANDWIDTH

Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.

##### 3.1.2 TEST PROCEDURES

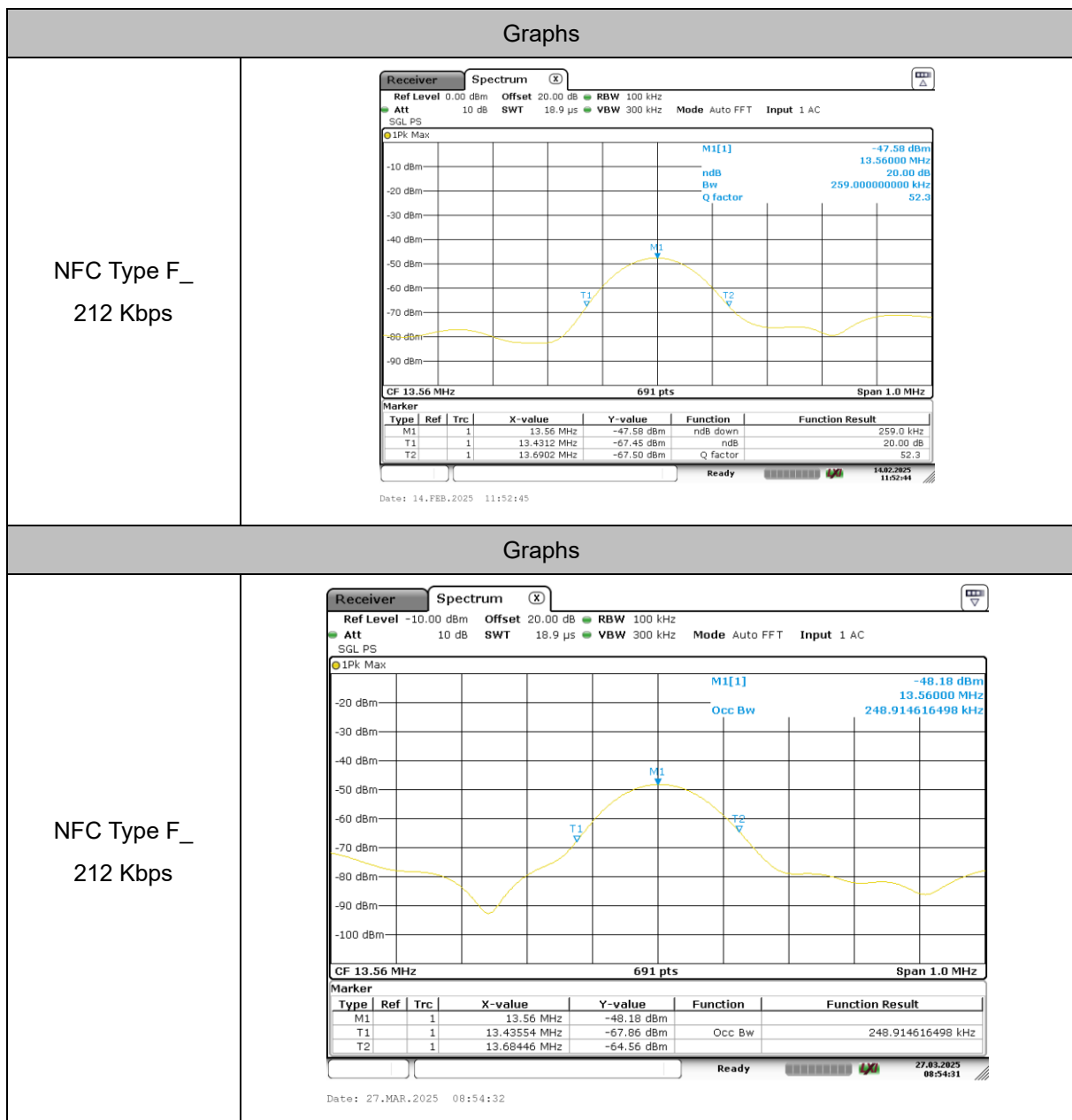
1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used. (Since the signal being measured is CW or CW-like, it is impractical to adjust RBW according to C63.10 because the bandwidth measured will always follow RBW and the result will be approximately twice as large as RBW.)
3. Measured the spectrum width with power higher than 20dB below carrier.
4. Measured the 99% OBW.



### 3.1.3 TEST RESULT OF 20DB AND 99% BANDWIDTH

Test Mode :	NFC		Temperature :	23℃	
Test Engineer :	Hanwen Xu		Relative Humidity :	50%	
Mode	Frequency	20dB Bandwidth [kHz]	99% OBW[kHz]	Verdict	
NFC Type F_212 Kbps	13.56MHz	259	248.915	PASS	

#### 20dB Bandwidth & 99% Bandwidth Plot





## 3.2 FREQUENCY STABILITY MEASUREMENT

### 3.2.1 LIMIT OF FREQUENCY STABILITY

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

### 3.2.2 TEST PROCEDURES

1. The spectrum analyzer connected via a receive antenna placed near the EUT.
2. EUT have transmitted signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire emissions bandwidth.
4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
5. The  $f_c$  is declaring of channel frequency. Then the frequency error formula is  $(f_c - f)/f_c \times 10^6$  ppm and the limit is less than  $\pm 100$ ppm.
6. Extreme temperature rule is -20°C ~50°C .

### 3.2.3 TEST RESULT OF FREQUENCY STABILITY

The NFC Type F\_212 Kbps is the worst case, Only report worst mode data





NFC Type F\_212 Kbps

Voltage (Vdc)	Temperature (°C)	Measurement Frequency (MHz)	Frequency Tolerance(ppm)	Limit(p pm)	Res ult
3.31	20	13.55993	-5.16	±100	Pass
4.47		13.56026	19.17		Pass
3.89	-20	13.56018	13.27		Pass
	-10	13.55967	-24.34		Pass
	0	13.55966	-25.07		Pass
	10	13.55953	-34.66		Pass
	20	13.56012	8.50		Pass
	30	13.55944	-41.30		Pass
	40	13.55921	-58.26		Pass
	50	13.56115	84.81		Pass



### 3.3 FIELD STRENGTH OF FUNDAMENTAL EMISSIONS AND MASK MEASUREMENT

#### 3.3.1 LIMIT OF FIELD STRENGTH OF FUNDAMENTAL EMISSIONS AND MASK

Rules and specifications	FCC CFR 47 Part 15 section 15.225 IC RSS-210 B.6			
	Description			
Description	Compliance with the spectrum mask is tested with RBW set to 9kHz.			
Freq. of Emission (MHz)	Field Strength (μV/m) at 30m	Field Strength (dBμV/m) at 30m	Field Strength (dBμV/m) at 10m	Field Strength (dBμV/m) at 3m
1.705~13.110	30	29.5	48.58	69.5
13.110~13.410	106	40.5	59.58	80.5
13.410~13.553	334	50.5	69.58	90.5
13.553~13.567	15848	84.0	103.08	124.0
13.567~13.710	334	50.5	69.58	90.5
13.710~14.010	106	40.5	59.58	80.5
14.010~30.000	30	29.5	48.58	69.5

#### 3.3.2 TEST PROCEDURES

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
4. For Fundamental emissions, use the receiver to measure QP reading.
5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
6. Compliance with the spectrum mask is tested with RBW set to 9kHz.

Note: Emission level (dBμV/m) = 20 log Emission level (μV/m).



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### 3.3.3 TEST RESULTS OF FIELD STRENGTH OF FUNDAMENTAL EMISSIONS AND MASK (1.705 MHz ~ 30 MHz)

Test Mode :	NFC (13.56 MHz)	Temperature :	23°C
Test Engineer :	Hanwen Xu	Relative Humidity :	50%
Frequency Range	13.11MHz~14.01MHz	Polarization :	Horizontal

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	13.560	46.79	124.00	77.21	20.26	H	250.4	1.00



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Test Mode :	NFC (13.56 MHz)	Temperature :	23°C
Test Engineer :	Hanwen Xu	Relative Humidity :	50%
Frequency Range	13.11MHz~14.01MHz	Polarization :	Vertical

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	13.560	40.11	124.00	83.89	20.26	V	276.6	1.00





## 3.4 RADIATED EMISSIONS MEASUREMENT

### 3.4.1 LIMIT

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

Frequencies (MHz)	Field Strength ( $\mu\text{V/m}$ )	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
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

### 3.4.2 MEASURING INSTRUMENT SETTING

The following table is the setting of receiver.

Receiver Parameter	Setting
Attenuation	Auto
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

**Note:** The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.



### 3.4.3 TEST PROCEDURES

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
7. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver.

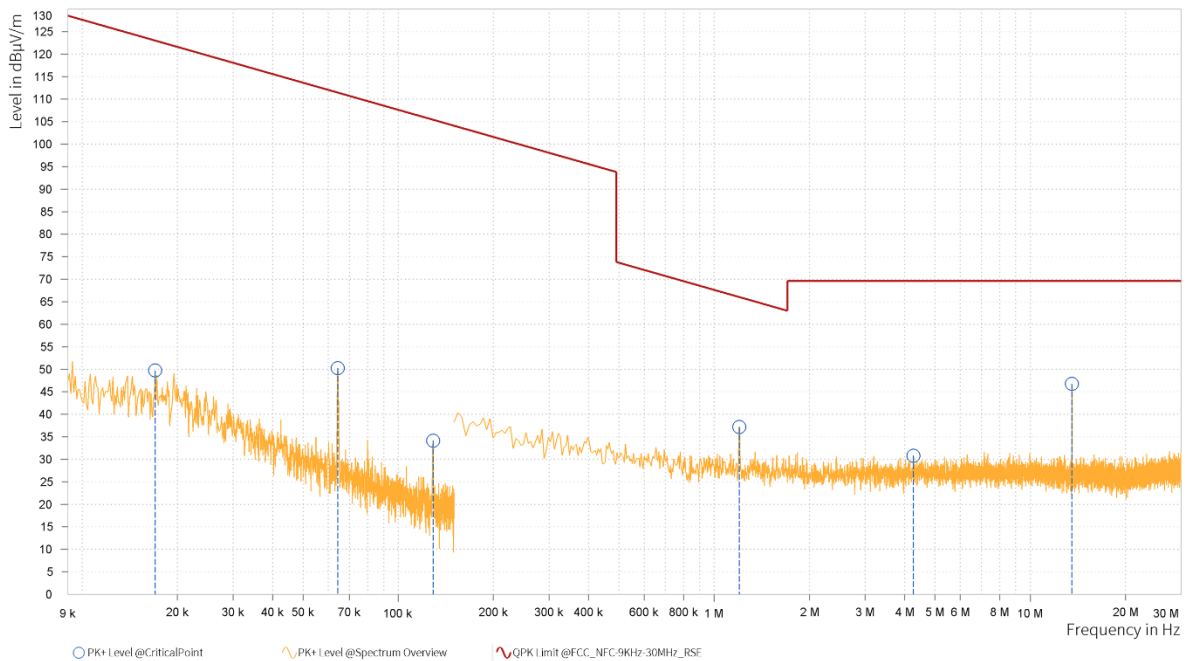


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### 3.4.4 TEST RESULTS OF RADIATED EMISSIONS (9 KHZ ~ 30 MHZ)

Test Mode :	NFC (13.56 MHz)	Temperature :	23°C
Test Engineer :	Hanwen Xu	Relative Humidity :	50%
Frequency Range	9 KHz ~ 30 MHz	Polarization :	Horizontal

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	0.017	49.74	123.00	73.25	20.27	H	359.1	1.00
1	0.064	50.27	111.48	61.17	20.55	H	1	1.00
1	0.129	34.17	105.39	71.22	20.41	H	1	1.00
2	1.199	37.19	66.03	28.84	20.45	H	1	1.00
2	4.268	30.82	69.54	38.72	20.38	H	359.1	1.00
2	13.560	46.77	69.54	22.77	20.26	H	1	1.00

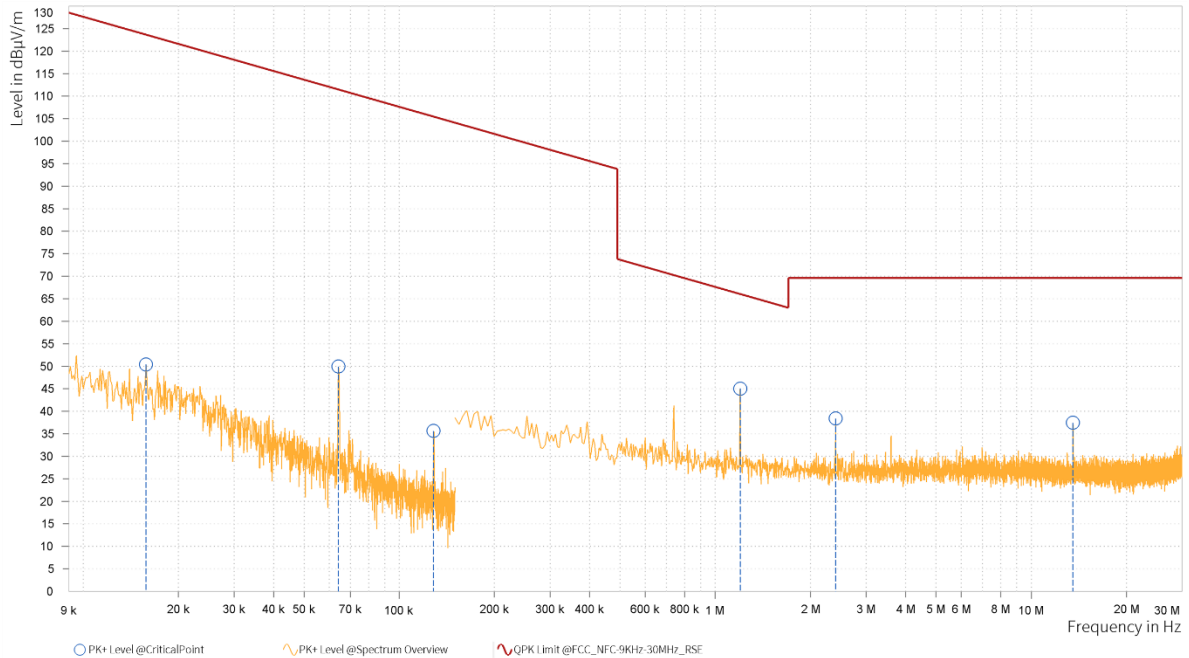




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Test Mode :	NFC (13.56 MHz)	Temperature :	23°C
Test Engineer :	Hanwen Xu	Relative Humidity :	50%
Frequency Range	9 KHz ~ 30 MHz	Polarization :	Vertical

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	0.016	50.41	123.52	73.22	20.24	V	1	1.00
1	0.064	49.95	111.48	61.51	20.55	V	359	1.00
1	0.128	35.64	105.46	69.79	20.41	V	4.9	1.00
2	1.199	45.05	66.03	20.98	20.45	V	1	1.00
2	2.405	38.39	69.54	31.15	20.35	V	359	1.00
2	13.560	37.44	69.54	32.10	20.26	V	1	1.00





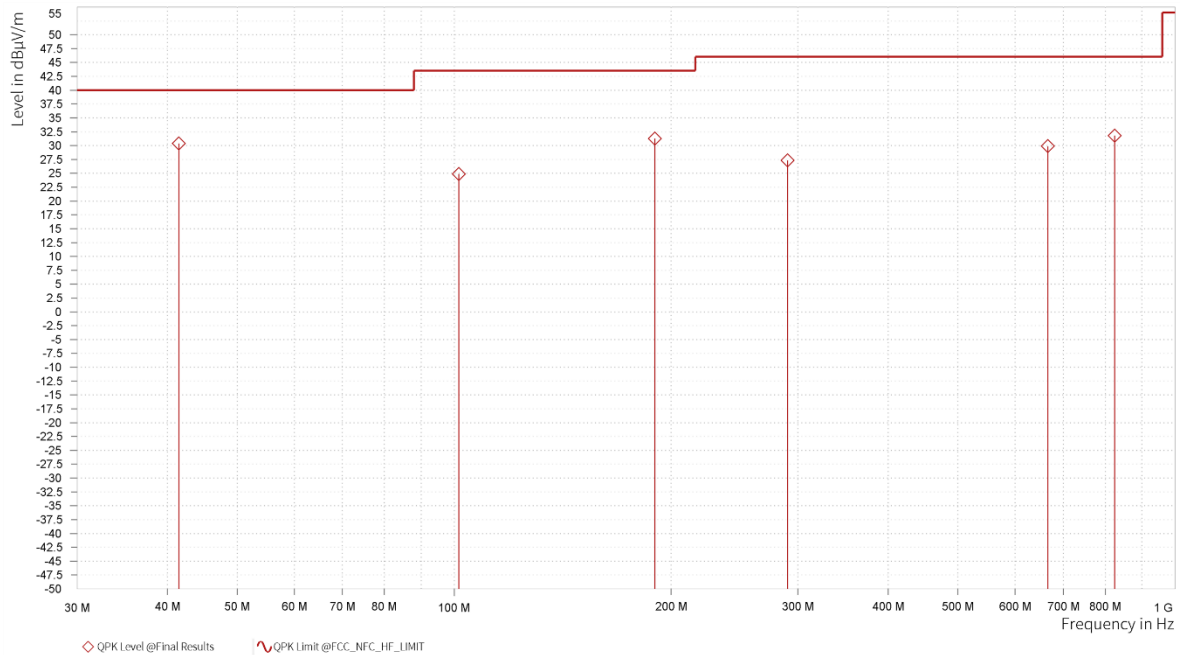


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### 3.4.5 TEST RESULT OF RADIATED SPURIOUS EMISSION (30MHZ ~ 1GHZ)

Test Mode :	NFC (13.56MHz)	Temperature :	23℃
Test Engineer :	Hanwen Xu	Relative Humidity :	50%
Frequency Range	30MHz~1GHz	Polarization :	Horizontal

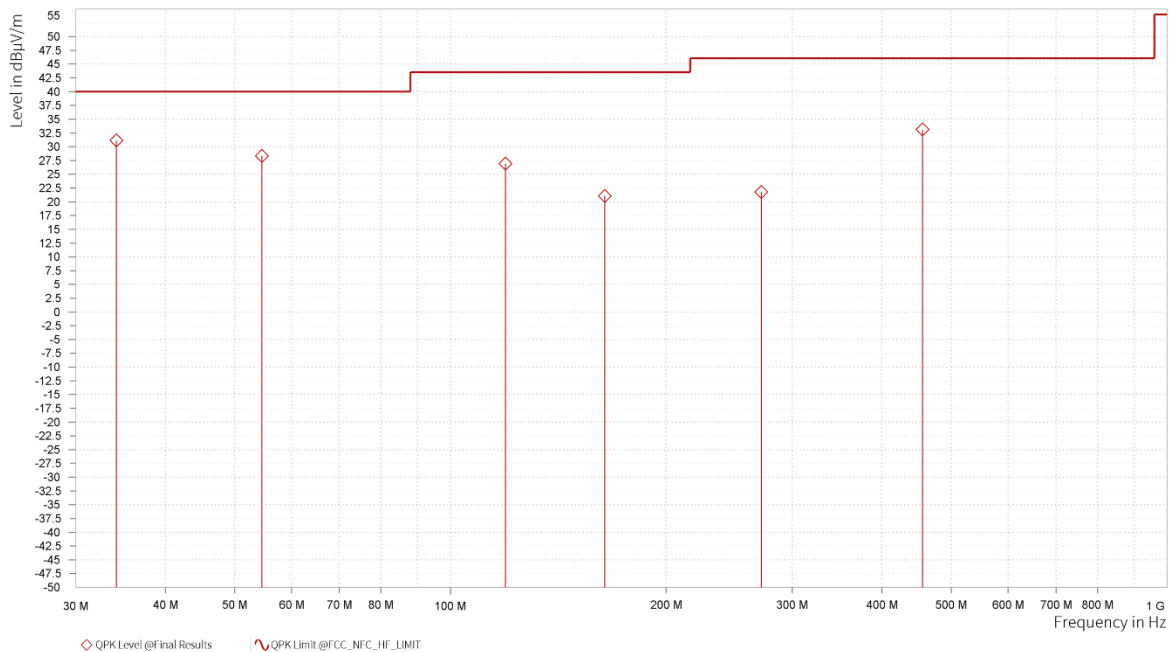
Rg	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	41.508	30.37	40.00	9.63	-3.63	H	140.3	1.00	120.000
1	101.560	24.86	43.50	18.64	-5.11	H	5.6	1.00	120.000
1	189.785	31.27	43.50	12.23	-5.29	H	140.3	1.00	120.000
1	290.180	27.31	46.00	18.69	-0.34	H	5.6	1.00	120.000
1	666.408	29.89	46.00	16.11	4.48	H	5.6	1.00	120.000
1	824.871	31.79	46.00	14.21	7.03	H	1	1.00	120.000



**BUREAU VERITAS** Test Report No.: PSU-NQN2412090210RF13

Test Mode :	NFC (13.56MHz)	Temperature :	23°C
Test Engineer :	Hanwen Xu	Relative Humidity :	50%
Frequency Range	30MHz~1GHz	Polarization :	Vertical

Rg	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	34.189	31.11	40.00	8.89	-7.69	V	4.9	1.00	120.000
1	54.559	28.33	40.00	11.67	-4.87	V	146.3	1.00	120.000
1	119.372	26.87	43.50	16.63	-5.73	V	81	2.00	120.000
1	164.213	21.06	43.50	22.44	-7.04	V	4.9	1.00	120.000
1	271.486	21.74	46.00	24.26	-1.67	V	4.9	1.00	120.000
1	456.006	33.11	46.00	12.89	3.16	V	1	1.00	120.000





## 3.5 AC CONDUCTED EMISSION MEASUREMENT

### 3.5.1 LIMIT OF AC CONDUCTED EMISSION

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

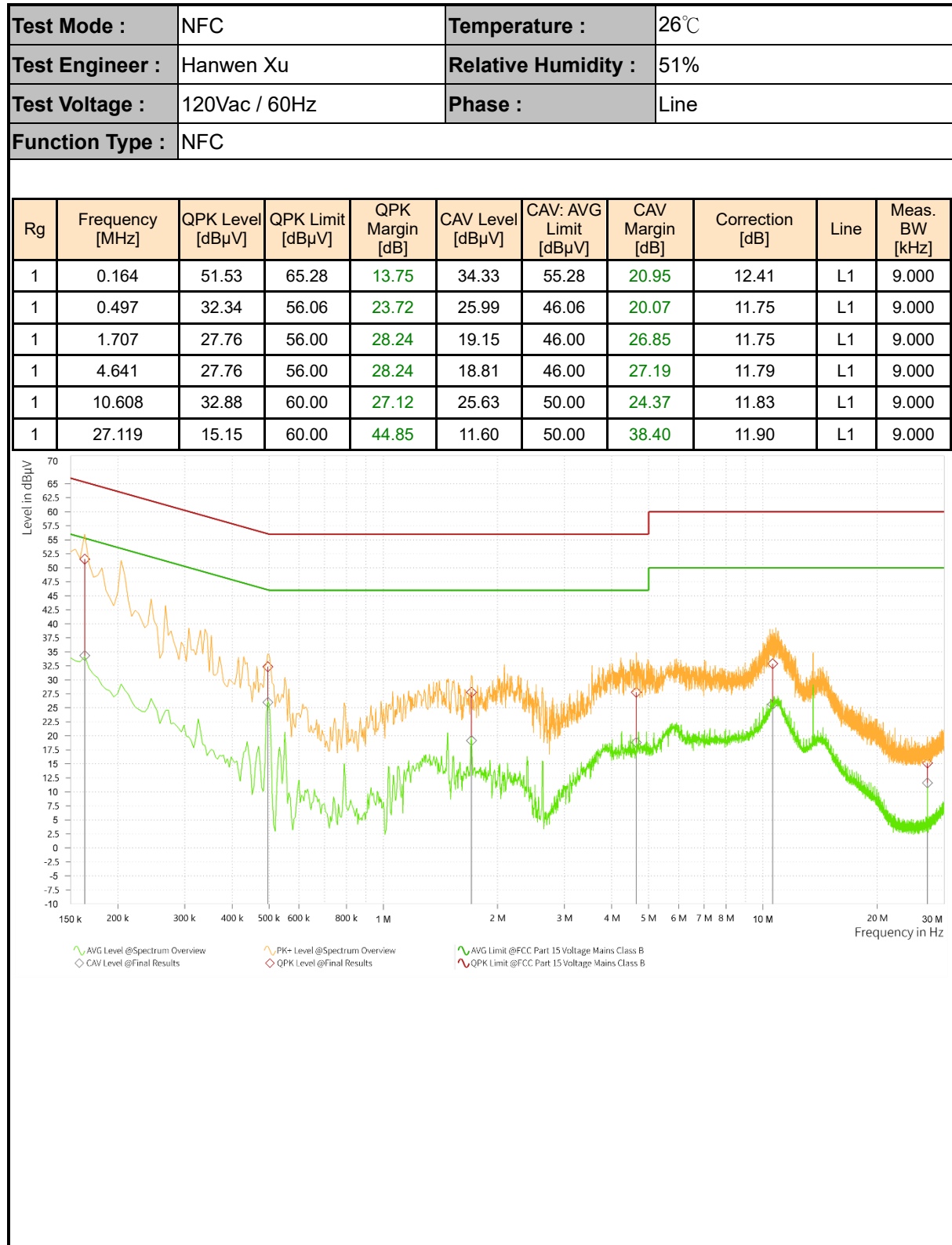
### 3.5.2 TEST PROCEDURES

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



**BUREAU VERITAS** Test Report No.: PSU-NQN2412090210RF13

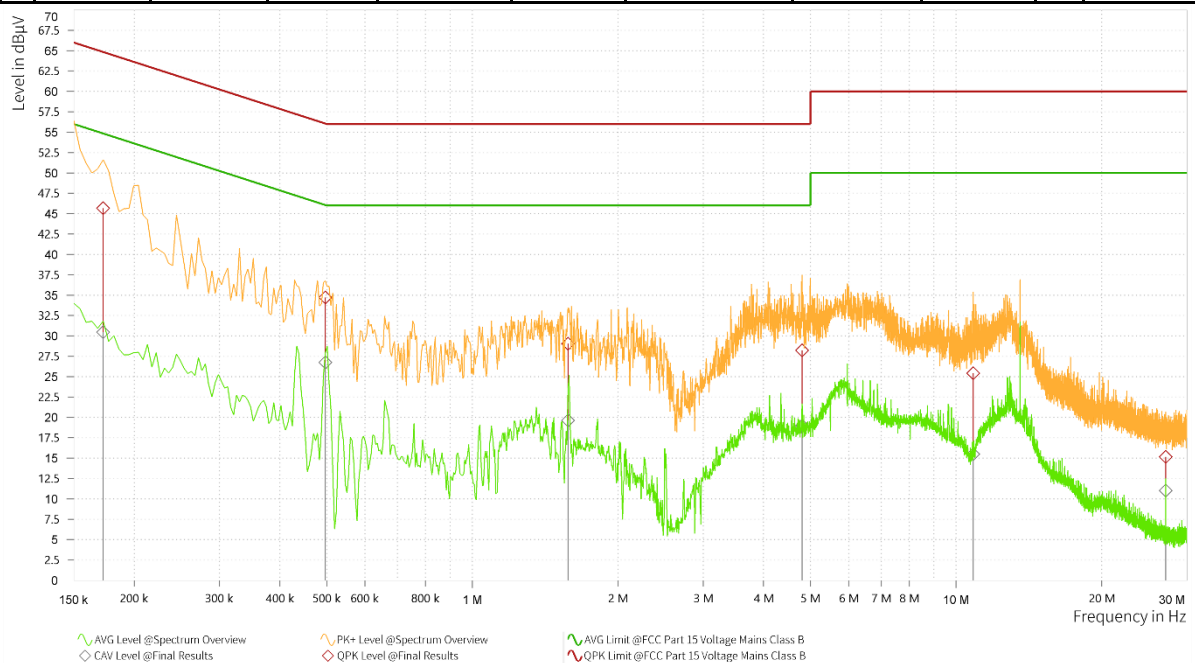
### 3.5.3 TEST RESULT OF AC CONDUCTED EMISSION



**BUREAU VERITAS** Test Report No.: PSU-NQN2412090210RF13

Test Mode :	NFC	Temperature :	26°C
Test Engineer :	Hanwen Xu	Relative Humidity :	51%
Test Voltage :	AC 120V/60Hz	Phase :	Neutral
Function Type :	NFC		

Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	CAV Level [dBμV]	CAV: AVG Limit [dBμV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.173	45.67	64.84	19.17	30.45	54.84	24.39	12.21	N	9.000
1	0.497	34.71	56.06	21.35	26.76	46.06	19.30	12.78	N	9.000
1	1.577	29.04	56.00	26.96	19.61	46.00	26.39	12.74	N	9.000
1	4.803	28.23	56.00	27.77	18.99	46.00	27.01	12.76	N	9.000
1	10.851	25.41	60.00	34.59	15.49	50.00	34.51	12.79	N	9.000
1	27.123	15.15	60.00	44.85	11.01	50.00	38.99	12.88	N	9.000





### 3.6 ANTENNA REQUIREMENTS

#### 3.6.1 STANDARD APPLICABLE

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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 the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

#### 3.6.2 ANTENNA CONNECTED CONSTRUCTION

A Loop Antenna design is used.

#### 3.6.3 ANTENNA GAIN

The antenna peak gain of EUT is less than 6 dBi.

## 4 LIST OF MEASURING EQUIPMENT

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
WIDEBAND RADIO COMMUNICATION TESTER	Rohde&Schwarz	CMW500	169399	Jun.26,24	Jun.25,26
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.24,22	Nov.23,25
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.27,24	Feb.26,26
Loop Antenna	R&S	HFH2-Z2/Z2E	100976	Feb.24,24	Feb.23,26
Antenna Power Supply	RS	N/A	N/A	N/A	N/A
EMI Test Receiver	R&S	ESW44	101973	Feb.24,24	Feb.23,26
Measurement Software	R&S	ELEKTRA	N/A	N/A	N/A
Pre-Amplifier	R&S	SCU08F1	101028	Sep.15,24	Sep.14,26
CABLE	R&S	W13.01	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	W13.02	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	W12.14	N/A	Apr.27,24	Apr.26,25

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Tel: +86 (0557) 368  
1008



**BUREAU VERITAS** Test Report No.: PSU-NQN2412090210RF13

- NOTE:**
1. The calibration interval of the above test instruments is 12/ 24/ 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
  2. The test was performed in 3m Chamber.
  3. The FCC Site Registration No. is 434559; The Designation No. is CN1325.

## 5 UNCERTAINTY OF EVALUATION

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
AC Power Conducted emissions	$\pm 2.70\text{dB}$
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions (30MHz~1GHz)	$\pm 4.98\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Frequency Stability	$\pm 76.97\text{Hz}$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

-----End of the report-----