



# NFC TEST REPORT

No.I22Z60412-IOT04

for

**HMD Global Oy**

**Smart Phone**

**Model Name: TA-1448**

**FCC ID: 2AJOTTA-1448**

with

**Hardware Version: V1.0**

**Software Version: TMO:04US\_1\_150**

**Issued Date: 2022-05-06**

**Note:**

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I22Z60412-IOT04	Rev.0	1 <sup>st</sup> edition	2022-05-06

Note: the latest revision of the test report supersedes all previous version.



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## **1. Test Laboratory**

### **1.1. Introduction & Accreditation**

**Telecommunication Technology Labs, CAICT** is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

### **1.2. Testing Location**

Location 1: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,  
P. R. China 100191

### 1.3. Testing Environment

Normal Temperature: 15-35°C  
Extreme Temperature: -20/+50°C  
Normal Relative Humidity: 20-75%  
Normal Air Pressure 86Kpa-106Kpa

### 1.4. Project data

Testing Start Date: 2022-04-08  
Testing End Date: 2022-04-14

### 1.5. Signature



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**Zhou Bin**  
**(Prepared this test report)**



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**Zhang Qiang**  
**(Reviewed this test report)**



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**Zhu Liang**  
**(Approved this test report)**



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: HMD Global Oy  
Address: Bertel Jungin aukio 9 02600 Espoo Finland  
Contact: /  
Telephone: /  
Email: /

### **2.2. Manufacturer Information**

Company Name: HMD Global Oy  
Address: Bertel Jungin aukio 9 02600 Espoo Finland  
Contact: /  
Telephone: /  
Email: /

### 3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

#### 3.1. About EUT

Description	Smart Phone
Model Name	TA-1448
FCC ID	2AJOTTA-1448
GSM Frequency bands	850/900/1800/1900
UMTS Frequency bands	FDD I/ II/ IV/ V
E-UTRA Frequency bands	FDD 1/2/3/4/5/7/8/12/13/17/20/25/26/66/71 TDD 38/39/40/41
5G NR bands	SA n25/n41/n66/n71/n77 NSA n25/n41/n66/n71/
Operating temperature	-10/+55°C
Extreme low voltage	3.5 V
Normal voltage	3.8 V
Extreme high voltage	4.45 V

#### 3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version
UT54a	357713910032744	V1.0	TMO:04US_1_150
UT102a	357713910033742	V1.0	TMO:04US_1_150

\*EUT ID: is used to identify the test sample in the lab internally.

#### 3.3. Internal Identification of AE

AE ID*	Description	SN	Remarks
AE1	Battery	/	/
AE2	Battery	/	/
AE3	Charger	/	/
AE4	USB Cable	/	/
AE5	Headset	/	/

##### AE1

Model	HQ610
Manufacturer	Ningde Amperex Technology Limited
Capacity	4900mAh
Voltage	3.85V

##### AE2

Model	HQ610
Manufacturer	GUANGDONG FENGHUA NEW ENERGY CO., LTD
Capacity	4900mAh
Voltage	3.85V

##### AE3



Model	Charger-AD-020US
Manufacturer	Aohai
AE4	
Model	USB-SHQ-A119A
Manufacturer	Saibao(Jiangxi)communication Industrial Co.,Ltd
AE5	
Model	JWEP239-H17H
Manufacturer	JUWEI ELECTRONICS CO.,LTD

\*AE ID: is used to identify the ancillary equipment in the lab internally.

### 3.4. EUT Set-ups

<b>EUT set-up</b>	<b>Combination of EUT and AE</b>	<b>Remarks</b>
<b>No.</b>		
Set.NFC01	UT102a + AE1 + AE2 + AE3 + NFC Card	Charge
Set.NFC02	UT102a + AE1+ NFC card	NFC
Set.NFC03	UT54a	---

The Transmit State of NFC: the NFC function is on. The EUT will transmit the NFC data and command continuously during the test.

The Transmit state without modulation: The EUT will transmit the CW signal at the operating frequency.



## **4. Reference Documents**

### **4.1. Documents supplied by applicant**

EUT parameters, referring to Annex A for detailed information, are supplied by the client or manufacturer, which are the bases of testing.

### **4.2. Reference Documents for testing**

The following documents listed in this section are referred for testing.

<b>Reference</b>	<b>Title</b>	<b>Version</b>
CFR 47 Part 2	Part 2 — Frequency Allocations and Radio Treaty Matters; General Rules and Regulations.	2019
CFR 47 Part 15	Part 15 — Radio Frequency Devices. Subpart C — Intentional Radiators. § 15.35 Measurement detector functions and bandwidths. § 15.207 Conducted limits. § 15.209 Radiated emission limits, general requirements. § 15.215 Additional provisions to the general radiated emission limitations. § 15.225 Operation within the band 13.110–14.010 MHz.	2019
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013

## 5. Test Results

### 5.1. Summary of Test Results

No	Test Cases	Clause in Regulation	Section in This Report	Verdict
1	Electric Field Strength of Fundamental Emissions	CFR 47 § 15.225(a)	B.1	P(Set. NFC02)
2	Electric Field Strength of Outside the Allocated Bands	CFR 47 § 15.225(b) CFR 47 § 15.225(c)		P(Set. NFC02)
3	Electric Field Radiated Emissions	CFR 47 § 15.209	B.2	P(Set. NFC01)
		CFR 47 § 15.225(d)	B.3	P(Set. NFC01)
4	Frequency Tolerance	CFR 47 § 15.225(e)	B.4	P(Set. NFC03)
5	20dB Bandwidth	CFR 47 § 15.215(c)	B.5	P(Set. NFC03)
6	Conducted Emissions	CFR 47 § 15.207	B.6	P(Set. NFC01)
The measurement is carried out according to ANSI C63.10. See <b>ANNEX B</b> for details.				

#### Test Conditions:

For this report, all the test cases listed above were tested under normal Temperature, Voltage, humidity and Air Pressure except the Frequency Tolerance test case. The specific conditions of Frequency Tolerance test case are listed in section B.4.3

See **Table 3** for terms for result verdict:

**Table 1 Terms for result verdict**

P	Pass, The EUT complies with the essential requirements in the standard.
NP	Not Perform, The test was not performed by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

### 5.2. Statements

The test cases listed in Section 5.1 of this report for the EUT specified in Section 3 were performed by CTTL according to the reference documents in Section 4.

The EUT meets all applicable requirements of the regulations and standards in Section 4.2.



## 6. Test Facilities Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL. DUE DATE	CAL. INTERVAL
1.	Spectrum Analyzer	RSA3408A	B010277	Tektronix	2022-10-28	1 Year
2.	Climatic chamber	SH242	93008658	ESPEC	2023-02-21	2 Year
3.	Test Receiver	ESW44	103023	R&S	2022-10-28	1 Year
4.	H-field Antenna	HFH2-Z2	829324/007	R&S	2022-12-23	1 Year
5.	EMI Antenna	VULB 9163	302	SCHWARZBEC K	2022-12-28	1 Year
6.	Test Receiver	ESCI	100344	R&S	2023-03-21	1 Year
7.	LISN	ENV216	101200	R&S	2022-05-30	1 Year

## 7. Measurement Uncertainty

Item	Uncertainty
Frequency Tolerance	$U = 77 \text{ Hz}, k=2$
20dB Bandwidth	$U = 77 \text{ Hz}, k=2$
Radiated Emissions(9kHz-30MHz)	$U = 4.92 \text{ dB}, k=2$
Radiated Emissions (30MHz-1GHz)	$U = 5.18 \text{ dB}, k=2$
Radiated Emissions (>1GHz)	$U = 5.54 \text{ dB}, k=2$
Conducted emission	$U = 3.08 \text{ dB}, k=2$



**ANNEX A: EUT parameters**

/

## ANNEX B: Detailed Test Results

### B.1. Electric Field Strength of Fundamental and Outside the Allocated bands

#### B.1.1. Reference

See Clause 4, Clause 5 of ANSI C63.10-2013 generally.

#### B.1.2. Measurement Methods

The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

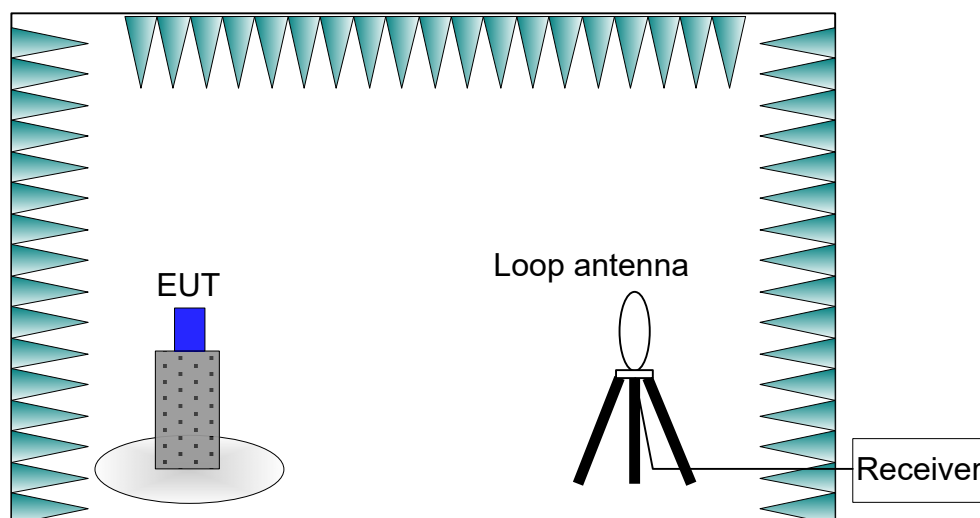
The measurement bandwidth is:

**Table B-1: Measurement bandwidth**

Frequency of Emission (MHz)	RBW/VBW
12.56-14.56	10/30 kHz

The E-field measured at 3m is calculated as:

$$\text{E-field (dB}\mu\text{V/m)} = \text{Rx (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{AF@3m (dB/m)}$$



**Figure B-1: Measurement Setup**

#### B.1.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC(See 3.4).

The EUT is powered by a travel adapter.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of 15 ~ 25 °C.

**B.1.4. Limits**

**Table B-2: Limits**

Frequency Range (MHz)	E-field Strength Limit @ 30 m (μV/m)	E-field Strength Limit @ 3 m (dBμV/m)
13.560 ± 0.007	+15,848	124
13.410 to 13.553 13.567 to 13.710	+334	90
13.110 to 13.410 13.710 to 14.010	+106	81

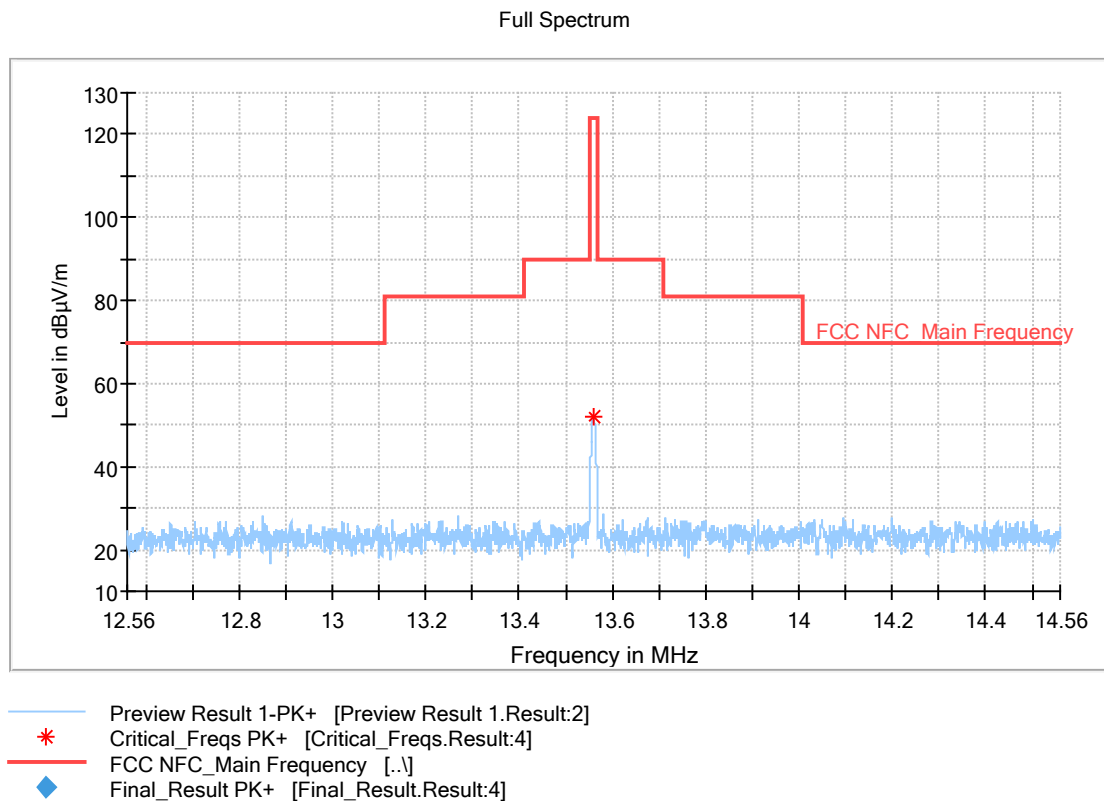
Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:  

$$\text{Extrapolation(dB)} = 40\log_{10}(\text{Measurement Distance}/\text{Specification Distance})$$

**B.1.5. Measurement Results**

Measurement results of normal conditions see Figure B-2 for different set-ups of EUT. The results displayed take into account applicable antenna factors and cable losses.

**Conclusions:** Set.NFC02, **PASS**.



**Figure B-2: Measurement results for Electric Field Strength of Fundamental and Outside the Allocated bands**

## **B.2. Electric Field Radiated Emissions (< 30MHz)**

### **B.2.1. Reference**

See Clause 6.4 of ANSI C63.10-2013 specifically.

See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

### **B.2.2. Measurement Methods**

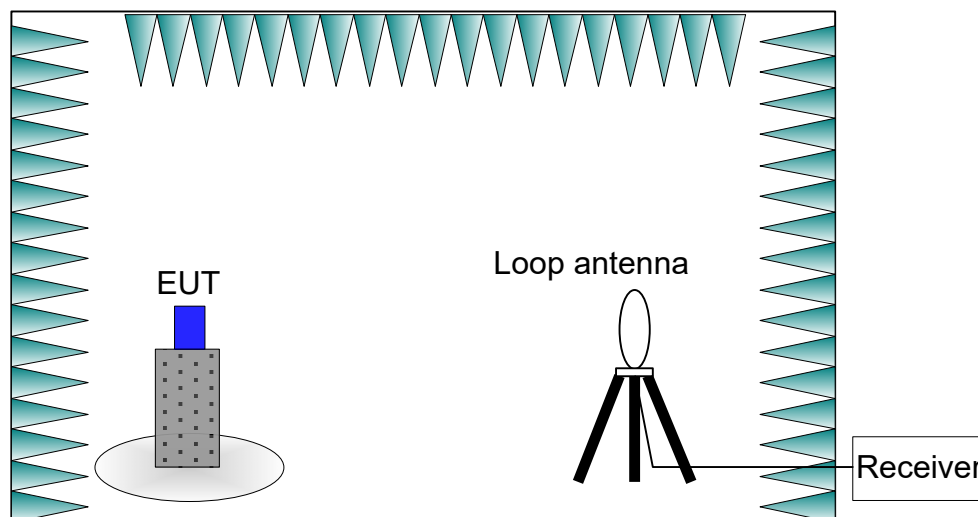
The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/VBW
0.009-0.15	100/300 Hz
0.15-30	10/30 kHz

The E-field measured at 3m is calculated as:

$$\text{E-field (dB}\mu\text{V/m)} = \text{Rx (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{AF@3m (dB/m)}$$



**Figure B-3: Measurement Setup**

### **B.2.3. EUT Operating Mode and Test Conditions**

The measurement of EUT is carried out under the transmit state of NFC(See 3.4).

The EUT is powered by a travel adapter.



During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of 15 ~ 25 °C.

**B.2.4. Limits**

Frequency Range (MHz)	E-field Strength Limit @ 30m (mV/m)	E-field Strength Limit @ 3m (dBµV/m)
0.009-0.490	2400/F(kHz)	129-94
0.490-1.705	24000/F(kHz)	74-63
1.705-30	30	70

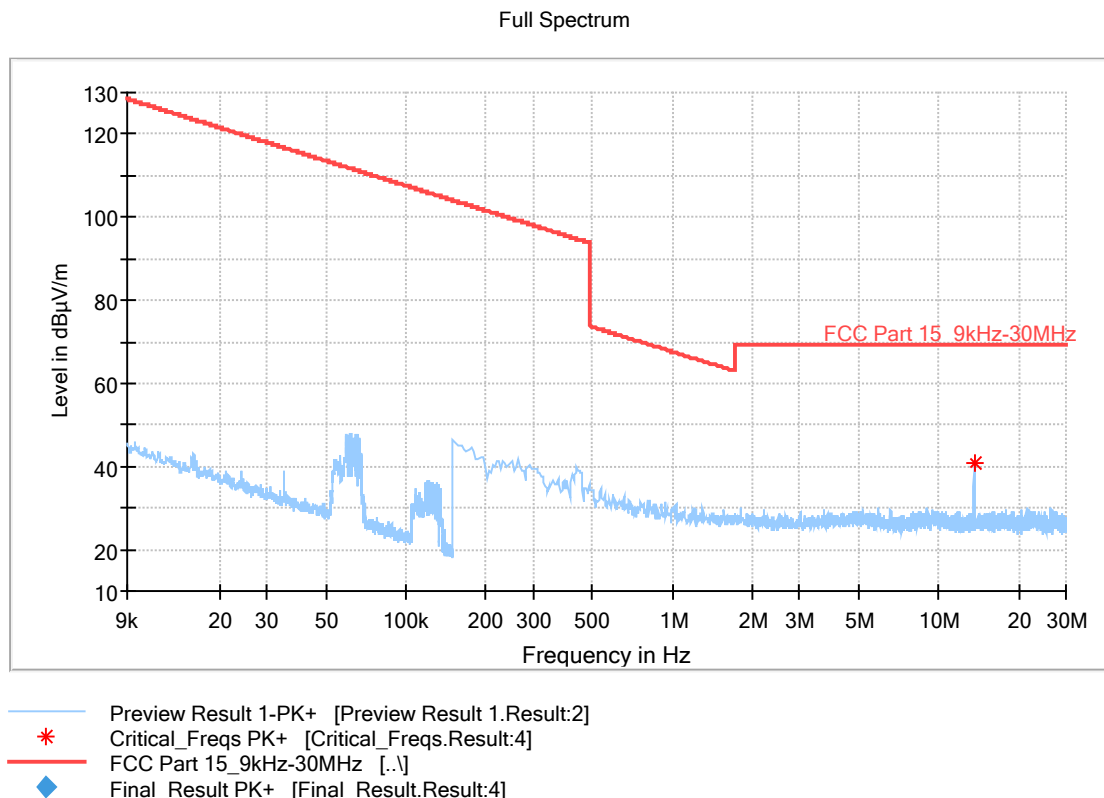
Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:  

$$\text{Extrapolation(dB)} = 40\log_{10}(\text{Measurement Distance}/\text{Specification Distance})$$

**B.2.5. Measurement Results**

Measurement results of normal conditions see Figure B-4 for different set-ups of EUT. The results displayed take into account applicable antenna factors and cable losses.

**Conclusions:** Set.NFC01, **PASS**.



**Figure B-4: Measurement results for Electric Field Radiated Emissions (< 30MHz)**

### **B.3. Electric Field Radiated Emissions ( $\geq 30\text{MHz}$ )**

#### **B.3.1. Reference**

See Clause 6.5 of ANSI C63.10-2013 specifically.

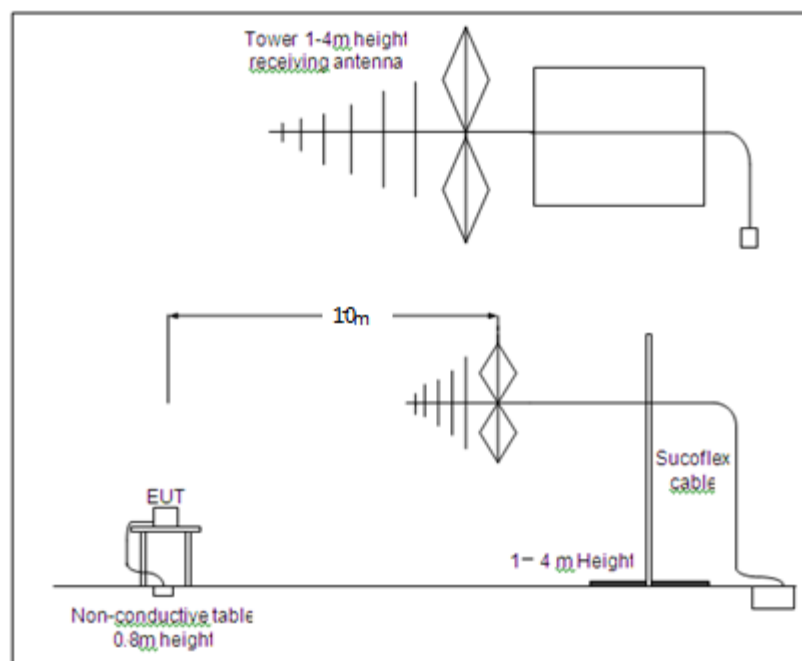
See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

#### **B.3.2. Measurement Methods**

The electric field radiated emissions from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 10m from the receiving antenna. The receiving antennas connected to a measurement receiver. In order to search for maximum field strength emitted from the EUT, the receiving antenna can be moved between the height of 1.0 m to 4.0 m. Detected E-field was maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna positions for both vertical and horizontal antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/VBW
30-1000	120kHz



**Figure B-5: Measurement Setup**

#### **B.3.3. EUT Operating Mode and Test Conditions**

The measurement of EUT is carried out under the transmit state of NFC(See 3.4).

The EUT had been connected to a travel adapter.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is

in the range of 15 ~ 25 °C.

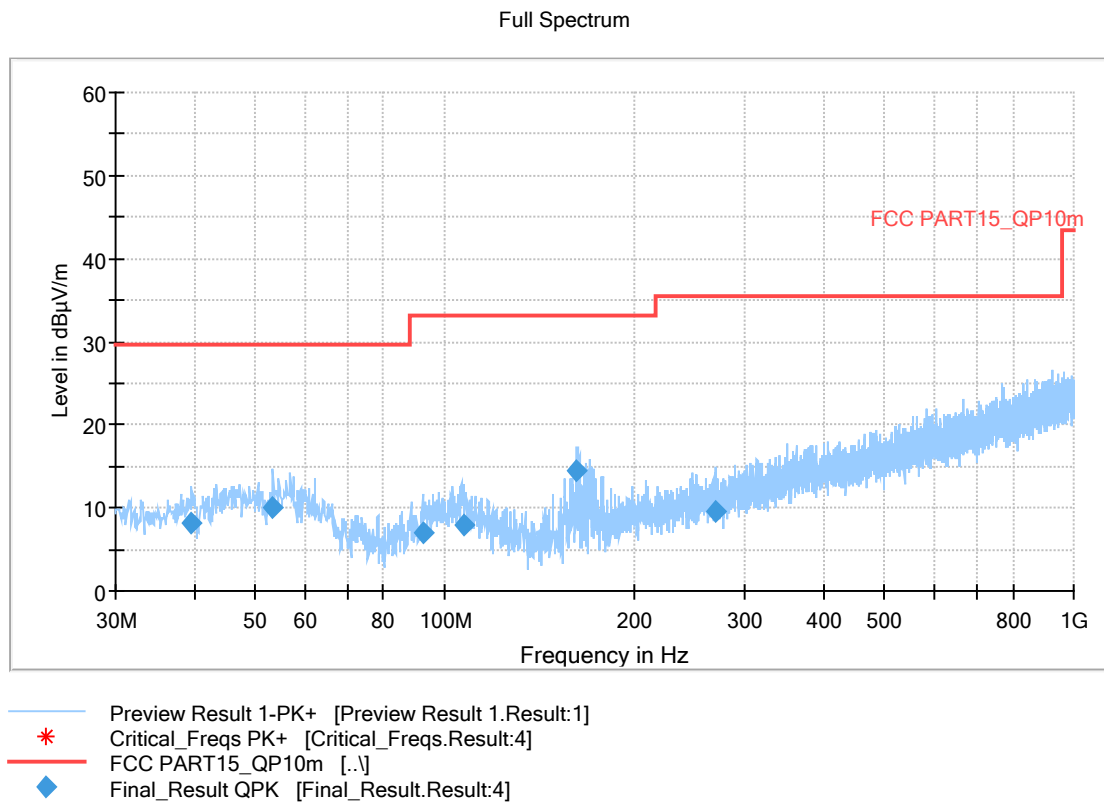
**B.3.4. Limits**

Frequency Range (MHz)	E-field Strength Limit @ 3m (mV/m)	E-field Strength Limit @ 3m (dBµV/m)	E-field Strength Limit @ 10m (dBµV/m)
30-88	100	40	30
88-216	150	43.5	33.5
216-960	200	46	36
960-1000	500	54	44

**B.3.5. Measurement Results**

Measurement results of normal conditions see Figure B-6 for different set-ups of EUT. The results displayed take into account applicable antenna factors and cable losses.

**Conclusions:** Set.NFC01, **PASS**.



**Figure B-6: Measurement results for Electric Field Radiated Emissions (≥30MHz)**

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
39.603000	8.08	29.54	21.46	325.0	H	336.0
53.377000	9.99	29.54	19.55	109.0	V	71.0
92.274000	7.05	33.06	26.01	275.0	H	315.0
107.503000	7.97	33.06	25.09	186.0	V	0.0
162.502000	14.46	33.06	18.60	125.0	V	122.0
269.590000	9.64	35.56	25.92	286.0	H	45.0

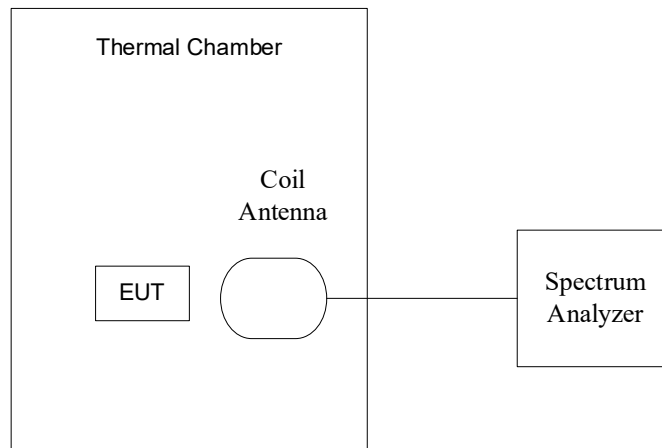
## **B.4. Frequency Tolerance**

### **B.4.1. Reference**

See Clause 6.8 of ANSI C63.10-2013 specifically.

See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

### **B.4.2. Measurement Methods**



**Figure B-7: Measurement Setup**

The transmitter output signal was picked up by coil antenna connected to the spectrum analyzer. The center frequency was measured with 30Hz RBW and 1kHz span. During the test, the EUT was placed in a thermal chamber until thermal balance and lasting appropriate time.

### **B.4.3. EUT Operating Mode and Test Conditions**

The measurement of EUT was carried out under the transmit state of without modulation(See 3.4). EUT had not been connected to a travel adapter. The frequency stability was measured with the different voltage and temperature combinations:

- a) The nominal voltage 3.8V(See 3.1)was used and the temperature was varied from -20°C to +50°C in 10°C increments using an environmental chamber.
- b) The 20°C was used and the voltages were 3.5V, 3.8V and 4.37V (The extreme low voltage ,the normal voltage and 115% of the normal voltage. The extreme low voltage and the normal voltage defined in section 3.1).

The details were as following:

**Table B-3: Combinations of Voltage andTemperature**

Test items	Voltage	Temperature
Frequency stability with respect to ambient temperature	3.8V	-20°C
		-10°C
		0°C
		10°C
		20°C
		30°C

		40°C
		50°C
Frequency stability when varying supply voltage	3.5V	20°C
	3.8V	
	4.37V	

#### B.4.4. Test Layouts

See B.4.2.

#### B.4.5. Limits

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

#### B.4.6. Measurement Results

Measurement results see Table B-4 for different test conditions.

**Conclusions:** Set.NFC03, **PASS**.

**Table B-4: Measurement results for Frequency Tolerance**

Temperature	Voltage	Frequency (MHz)			
		Startup	2 Min Later	5 Min Later	10 Min Later
-20°C	3.8V	13.559843750	13.559843750	13.559840625	13.559840625
-10°C	3.8V	13.559840625	13.559843750	13.559846875	13.559846875
0°C	3.8V	13.559818750	13.559825000	13.559831250	13.559831250
10°C	3.8V	13.559681250	13.559793750	13.559803125	13.559803125
20°C	3.8V	13.559815625	13.559803125	13.559790625	13.559781250
30°C	3.8V	13.559765625	13.559753125	13.559740625	13.559734375
40°C	3.8V	13.559718750	13.559712500	13.559706250	13.559706250
50°C	3.8V	13.559693750	13.559687500	13.559687500	13.559684375
20°C	3.5V	13.559728125	13.559743750	13.559753125	13.559765625
20°C	4.37V	13.559756250	13.559759375	13.559759375	13.559762500

Temperature	Voltage	Frequency Error (%)			
		Startup	2 Min Later	5 Min Later	10 Min Later
-20°C	3.8V	-0.001	-0.001	-0.001	-0.001
-10°C	3.8V	-0.001	-0.001	-0.001	-0.001
0°C	3.8V	-0.001	-0.001	-0.001	-0.001
10°C	3.8V	-0.002	-0.002	-0.001	-0.001
20°C	3.8V	-0.001	-0.001	-0.002	-0.002
30°C	3.8V	-0.002	-0.002	-0.002	-0.002
40°C	3.8V	-0.002	-0.002	-0.002	-0.002
50°C	3.8V	-0.002	-0.002	-0.002	-0.002
20°C	3.5V	-0.002	-0.002	-0.002	-0.002
20°C	4.37V	-0.002	-0.002	-0.002	-0.002

#### B.4.7. Measurement Uncertainty

Measurement uncertainty:  $U = 77 \text{ Hz}$ ,  $k=2$

### B.5. 20dB Bandwidth

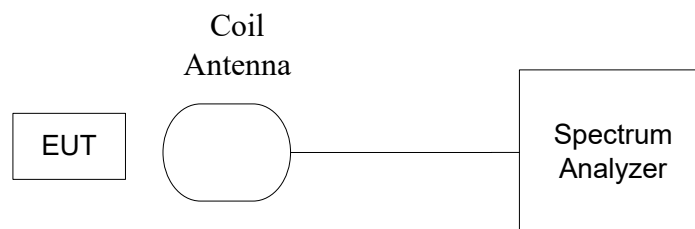
#### B.5.1. Reference

See Clause 6.9 of ANSI C63.10-2013 specifically.

See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

#### B.5.2. Measurement Methods

The transmitter output signal was picked up by coil antenna connected to the spectrum analyzer. The bandwidth of the center frequency was measured with 140Hz RBW, 420Hz VBW and 14kHz span.



**Figure B-8: Measurement Setup**

#### B.5.3. EUT Operating Mode and Test Conditions

The measurement of EUT was carried out under the transmit state of NFC (See 3.4). EUT had not been connected to a travel adapter.

During the measurements, the ambient temperature was in the range of 15 ~ 25 °C.

#### B.5.4. Test Layouts

See B.5.2.

#### B.5.5. Limits

The 20dB bandwidth shall be less than 80% of the permitted frequency band. For 13.56 MHz NFC, the permitted frequency band is 14kHz, so the limit is 11.2 kHz.

#### B.5.6. Measurement Results

Measurement results see Figure B-9.

**Conclusions:** Set.NFC03, **PASS**.

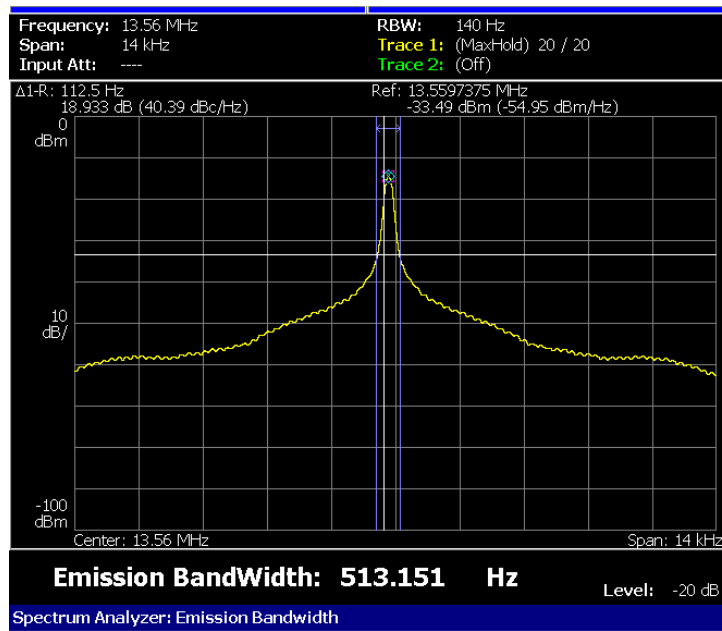


Figure B-9: Measurement results for 20dB Bandwidth

### B.5.7. Measurement Uncertainty

Measurement uncertainty:  $U = 77 \text{ Hz}$ ,  $k=2$

## B.6. Conducted emission

### B.6.1. Reference

See Clause 6.2 of ANSI C63.10-2013 specifically.

See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

### B.6.2. Measurement Methods

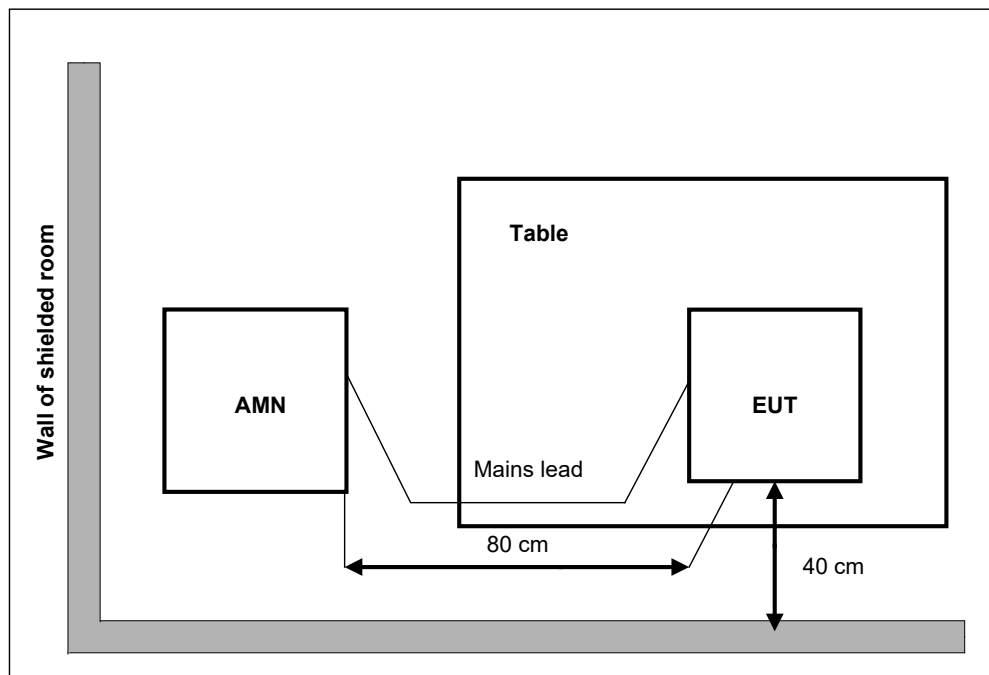
The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

The measurement bandwidth is:

**Table B-5: Measurement Bandwidth**

Frequency of Emission (MHz)	RBW/VBW
0.15-30	9kHz



**Figure B-10: Measurement Setup**

### B.6.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC(See 3.4).

The EUT is powered by a travel adapter.

During the measurements, the ambient temperature is in the range of 15 ~ 25 °C.

### B.6.4. Limits

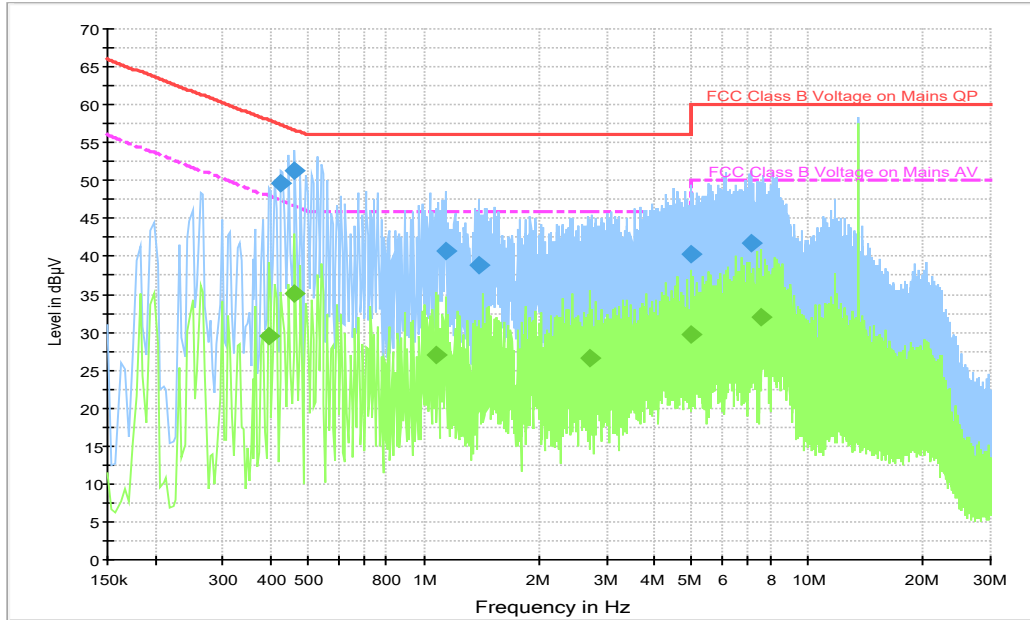
Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Average Limit (dB $\mu$ V)
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50



**B.6.5. Measurement Results**

Measurement results see Figure B-11.

**Conclusions: Set.NFC01, PASS.**



**Figure B-11: Measurement results for Conducted Emission**

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.426000	49.6	L1	19.7	7.8	57.3
0.462000	51.3	L1	19.8	5.3	56.7
1.138000	40.6	L1	19.7	15.4	56.0
1.386000	38.8	L1	19.7	17.2	56.0
4.966000	40.2	L1	19.6	15.8	56.0
7.118000	41.7	L1	19.8	18.3	60.0



**Final Result 2**

Frequency (MHz)	Average (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.394000	29.5	L1	19.7	18.5	48.0
0.462000	35.1	L1	19.8	11.6	46.7
1.074000	27.0	L1	19.8	19.0	46.0
2.710000	26.6	L1	19.6	19.4	46.0
4.966000	29.8	L1	19.6	16.2	46.0
7.558000	32.0	L1	19.7	18.0	50.0

**ANNEX C: Persons involved in this testing**

Test Item	Tester
20dB Bandwidth	Zhou Bin
Frequency Tolerance	Zhou Bin
Electric Field Strength of Fundamental and Outside the Allocated bands	Ding Zai
Electric Field Radiated Emissions (< 30MHz)	Ding Zai
Electric Field Radiated Emissions ( $\geq 30$ MHz)	Ding Zai
Conducted Emissions	Yan Hanchen

**ANNEX D: Accreditation Certificate**

<p>United States Department of Commerce National Institute of Standards and Technology</p> <p><b>NVLAP</b>® </p> <hr/> <p><b>Certificate of Accreditation to ISO/IEC 17025:2017</b></p> <hr/> <p>NVLAP LAB CODE: 600118-0</p> <p><b>Telecommunication Technology Labs, CAICT</b> Beijing China</p> <p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p> <p><b>Electromagnetic Compatibility &amp; Telecommunications</b></p> <p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p> <hr/> <p>2021-09-29 through 2022-09-30 <i>Effective Dates</i></p> <p style="text-align: center;"></p> <p style="text-align: right;"> <i>For the National Voluntary Laboratory Accreditation Program</i></p>	
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**\*\*\*END OF REPORT\*\*\***