



# NFC TEST REPORT

# No.I21Z60426-IOT26

for

Wingtech Group(Hong Kong) Limited

mobile phone

WTRVL5G

### FCC ID: 2APXW-WTRVL5G

with

Hardware Version: V1.3

# Software Version: WTRVL5G\_0.01.10

### Issued Date: 2021-04-30

#### Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

Test Laboratory:

#### CTTL-Telecommunication Technology Labs, CAICT

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# **REPORT HISTORY**

Report Number	Revision	Description	Issue Date
I21Z60426-IOT26	Rev.0	1st edition	2021-04-30

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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

Location 2: CTTL(CuiHu)

Address:

CuiHu Cloud Center No.1 Gaolizhang Road,Wenquan Town,Haidian District,Beijing,China

#### 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:	2021-03-22
Testing End Date:	2021-03-30

#### 1.5. Signature

Zhou Bin (Prepared this test report)

Zhang Qiang (Reviewed this test report)

Zhu Liang (Approved this test report)

# 2. Client Information

# 2.1. Applicant Information

Company Name:	Wingtech Group(Hong Kong) Limited							
Address:	Flat/RM 1903,19/F,Podium Plaza 5 Hanoi Road,Tsim Sha Tsui Kowloon,Hong Kong							
Country:	China							
Contact:	/							
Telephone:	/							
E-mail:	/							
Fax:	/							

# 2.2. Manufacturer Information

Company Name:	Wingtech Group(Hong Kong) Limited						
Address:	Flat/RM 1903,19/F,Podium Plaza 5 Hanoi Road,Tsim Sha Tsui Kowloon,Hong Kong						
Country:	China						
Contact:	1						
Telephone:	/						
E-mail:	/						
Fax:	/						

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

# 3.1. About EUT

Description	mobile phone
Model name/HVIN	WTRVL5G
FCC ID	2APXW-WTRVL5G
UMTS Frequency Band(s)	FDDI/II/IV/V
GSM Frequency Band(s)	GSM850/900/1800/1900
E-UTRA Frequency Band(s)	FDD1/2/3/4/5/7/8/12/13/20/25/26/28/66/71 TDD38/39/40/41
5G NR FR1 Frequency Band(s)	n25/41/66/71
OperatingTemperature	-10/+55°C
Nominal Voltage	3.87V
Extreme High Voltage	4.45V
Extreme Low Voltage	3.60V

### 3.2. Internal Identification of EUT

EUT ID	* IMEI/SNI	HW Version	SW Version	Date of receipt
78a	357492490015532	V1.3	WTRVL5G_0.01.10	2021-03-18
80a	357492490013578	V1.3	WTRVL5G_0.01.10	2021-03-18

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

### 3.3. Internal Identification of AE

AE ID*		Des	cription	SN
AE1	Charger			1
AE2	USB cable			1
AE3	battery			1
AE1				
Model			BLJ-QC06HU	
Manufacturer			Zhongshan Baolijin Electro	onic Co., Ltd.
Length of cab	ole		1	
AE2				
Description			TYPE C 2.0 Cable Assem	oly
Manufacturer			ShenZhen BRL Technolog	y Co., Ltd
Туре			771130001041	
Length of cab	ole		1	
AE3				

ModelTM001ManufacturerJiade Energy Technology (Zhuhai) Co.,Ltd.Length of cable/

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

#### 3.4. EUT Set-ups

#### Table 1: Eut Set-ups

EUT Set-up No.	Combination of EUT and AE	Remarks
Set.NFC01	80a + AE1 + AE2 + AE3	
Set.NFC02	80a + AE3	
Set. NFC03	78a	

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. <u>Reference Documents</u>

#### 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.

Reference	Title	Version
CFR 47 Part 2	Part 2 — Frequency Allocations and Radio Treaty Matters; General Rules and Regulations.	2018
CFR 47 Part 15	Part 15 — Radio Frequency Devices.	2018
	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.	
ANSI C63.10	American National Standard of Procedures for Compliance	2013
	Testing of Unlicensed Wireless Devices	

# 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)	D.1	P(Set. NFC02)
3	Electric Field Radiated	CFR 47 § 15.209	B.2	P(Set. NFC01)
Ū	Emissions	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.				

#### Table 2: Summary of Test Results

#### **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 3 Terms for result verdict

Ρ	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. <u>Test Facilities Utilized</u>

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL. DUE DATE	CAL. INTERVAL
1.	Spectrum Analyzer	RSA3408A	B010277	Tektronix	2021-10-23	1 Year
2.	Climatic chamber	SH242	93008658	ESPEC	2022-01-22	1 Year
3.	Test Receiver	ESU26	100235	Rohde & Schwarz	2022-02-23	1 Year
4.	BiLog Antenna	VULB9163	9163-483	Schwarzbeck	2021-08-27	1 Year
5.	LISN	ENV216	101200	R&S	2021-05-19	1 Year
6.	Test Receiver	ESCI	100344	R&S	2022-02-23	1 Year
7.	H-field Antenna	HFH2-Z2	829324/007	R&S	2021-12-10	1 Year

 Table 4: Test Facilities Utilized

# 7. Measurement Uncertainty

Item	Uncertainty
Frequency Tolerance	<i>U</i> =77 Hz, k=2
20dB Bandwidth	<i>U</i> =77 Hz, k=2
Radiated Emissions (<1GHz)	<i>U</i> =4.86 dB, k=2
Radiated Emissions (>1GHz)	<i>U</i> =5.16 dB, k=2
Conducted emission	<i>U</i> = 3.08 dB, k=2

#### Table 5: Measurement Uncertainty

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

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

E-field (dBµV/m) = Rx (dBµV) + Cable Loss (dB) + AF@3m (dB/m)

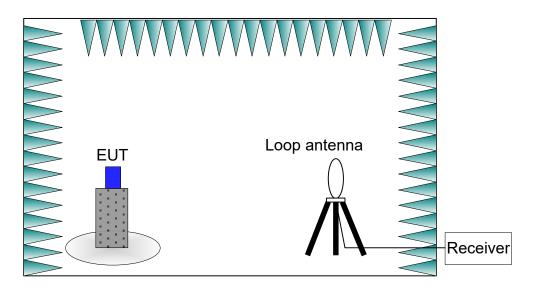


Figure B-1: Measurement Setup

#### 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.

All possible configurations were investigated and only the worst case is reported.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of 15 ~ 25  $\,$   $^\circ\!\mathrm{C}.$ 

#### B.1.4. 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	+334	90		
13.567 to 13.710				
13.110 to 13.410	+106	81		
13.710 to 14.010				
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:				

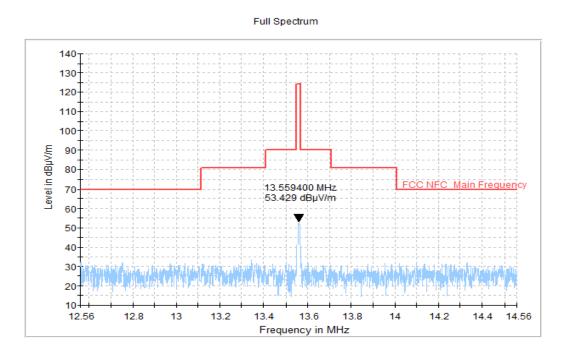
Table B-2: Limits

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

Table B-3:	Measurement	bandwidth
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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:

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

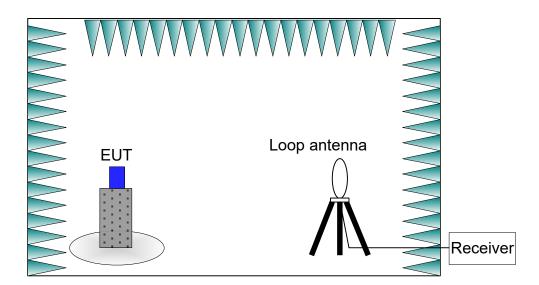


Figure B-3: Measurement Setup

#### **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.

All possible configurations were investigated and only the worst case is reported.

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

#### B.2.4. Limits

Frequency Range (MHz)	E-field Strength Limit @ 30m	E-field Strength Limit @ 3m		
	(mV/m)	(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:				
Extrapolation(dB) = $40\log_{10}$ (Measurement Distance/Specification Distance)				

Table B-4: Limits

#### **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.

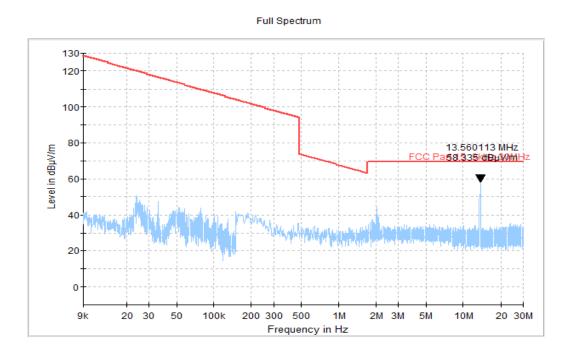


Figure B-4: Measurement results for Electric Field Radiated Emissions (< 30MHz)

### B.3. Electric Field Radiated Emissions (≥30MHz)

#### B.3.1. Reference

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

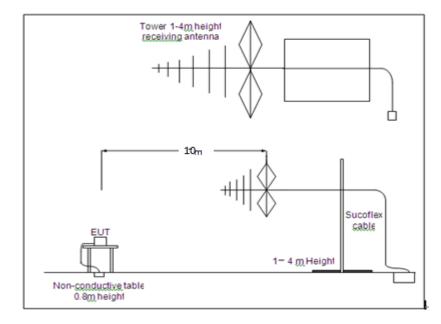
See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

#### **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





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#### Table B-5:Measurement bandwidth

#### **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.

All possible configurations were investigated and only the worst case is reported.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of  $15 \sim 25$  °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

Table B-6: Limits

#### **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.



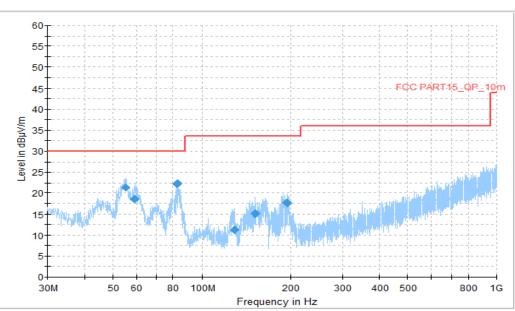


Figure B-6:	Measurement resu	Its for Electric Field	<b>Radiated Emissions</b>	(≥30MHz)
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<b>Final Result</b>	

Frequency	QuasiPeak	Height	Polarization	Azimuth	Margin	Limit
(MHz)	(dBµV/m)	(cm)		(deg)	(dB)	(dBµV/m)
55.317000	21.34	318.0	V	300.0	8.66	30.00
59.100000	18.52	295.0	V	120.0	11.48	30.00
82.574000	22.31	125.0	V	262.0	7.69	30.00
128.649000	11.27	178.0	V	1.0	22.25	33.50
152.123000	15.05	125.0	V	-20.0	18.47	33.50
195.094000	17.64	125.0	V	-19.0	15.88	33.50

### **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**

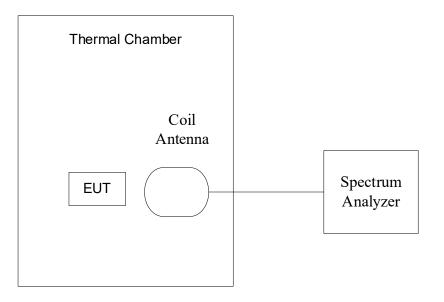


Figure B-7: Measurement Setup

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 3.87V(See 3.1)was used and the temperature was varied from -20<sup>°</sup>C to + 50<sup>°</sup>C in 10<sup>°</sup>C increments using an environmental chamber.

b) The 20  $^{\circ}$  was used and the voltages were 3.60V, 3.87V and 4.45V (The extreme low voltage ,the nominal voltage and the extreme high voltage defined in section 3.1).

The details were as following:

Test items	Voltage	Temperature
Frequency		<b>-20</b> °C
stability with respect		<b>-10</b> ℃
to ambient		<b>0</b> °C
temperature	3.87V	00
		<b>10</b> ℃
		<b>20</b> ℃
		<b>30</b> ℃
		<b>40</b> ℃
		<b>50</b> ℃
Frequency stability	3.60V	
when varying supply voltage	3.87V	<b>20</b> ℃
	4.45V	

#### Table B-7: Combinations of Voltage and Temperature

#### 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-8 for different test conditions.

Conclusions: Set.NFC03, PASS.

Temperature	Voltage	Frequency (MHz)					
Temperature	voltage	Startup	2 Min Later	5 Min Later	10 Min Later		
-20°C	3.87V	13.55998875	13.55998813	13.55998563	13.55998438		
-10°C	3.87V	13.56002063	13.56001875	13.56001813	13.56001738		
0°C	3.87V	13.56002563	13.56002513	13.56002488	13.56002313		
10℃	3.87V	13.56001438	13.56001313	13.56001238	13.56001188		
20°C	3.87V	13.55999188	13.55998813	13.55998688	13.55998563		
30℃	3.87V	13.55996063	13.55995875	13.55995688	13.55995438		
40℃	3.87V	13.55993563	13.55993313	13.55993063	13.55998125		
50℃	3.87V	13.55991063	13.55990938	13.55990875	13.55990813		
20°C	3.60V	13.55998438	13.55998375	13.55998313	13.55998213		
20°C	4.45V	13.55998438	13.55998383	13.55998313	13.55998238		

Table B-8:	Measurement results for Frequency Tolerance
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Temperature	Voltage	Frequency Error (%)				
Temperature	voltage	Startup	Startup 2 Min Later		10 Min Later	
<b>-20</b> ℃	3.87V	0.000	0.000	0.000	0.000	
<b>-10</b> ℃	3.87V	0.000	0.000	0.000	0.000	
<b>0</b> ℃	3.87V	0.000	0.000	0.000	0.000	
<b>10</b> ℃	3.87V	0.000	0.000	0.000	0.000	
<b>20</b> ℃	3.87V	0.000	0.000	0.000	0.000	
<b>30</b> ℃	3.87V	0.000	0.000	0.000	0.000	
<b>40</b> ℃	3.87V	0.000	0.000	-0.001	0.000	
<b>50</b> ℃	3.87V	-0.001	-0.001	-0.001	-0.001	
<b>20</b> ℃	3.60V	0.000	0.000	0.000	0.000	
<b>20</b> ℃	4.45V	0.000	0.000	0.000	0.000	

#### **B.4.7. Measurement Uncertainty**

Measurement uncertainty: U =77 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.

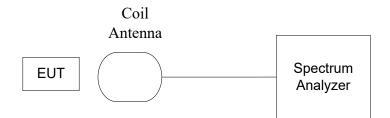


Figure B-8: Measurement Setup

#### **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  $15 \sim 25$  °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,

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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.

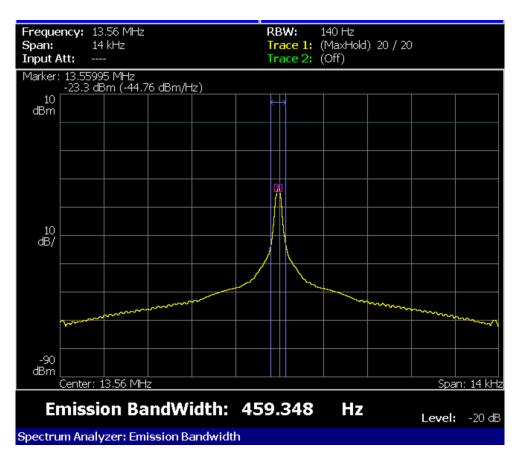


Figure B-9: Measurement results for 20dB Bandwidth

#### **B.5.7. Measurement Uncertainty**

Measurement uncertainty: U =77 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.

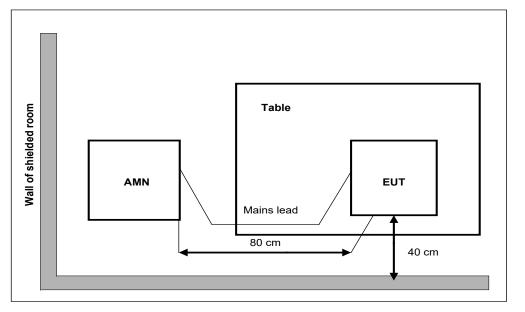
The conducted emission measurements were made with the following detector of the test receiver:

Quasi-Peak / Average Detector.

The measurement bandwidth is:

 Table B-9:
 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.

All possible configurations were investigated and only the worst case is reported.

During the measurements, the ambient temperature is in the range of  $15 \sim 25$  °C.

#### B.6.4. Limits

Frequency range (MHz)	Quasi-peak Limit (dBµV)	Average Limit (dBμV)
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

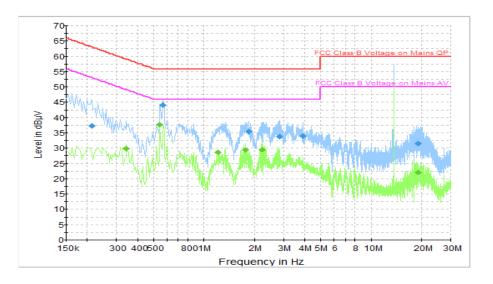
Table B-10: Limits

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#### **B.6.5. Measurement Results**

Measurement results see Figure B-11.

Conclusions: Set.NFC01, PASS.



Note: the spike over the limit is the NFC carrier frequency and coming from the radio equipment.

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

## **Final Result 1**

Frequency	QuasiPeak	Meas. Time	Bandwidth	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)		(dB)	(dB)	(dBµV)
0.213000	37.4	1000.0	9.000	L1	19.6	25.7	63.1
0.568500	44.1	1000.0	9.000	L1	19.6	11.9	56.0
1.846500	35.4	1000.0	9.000	L1	19.5	20.6	56.0
2.827500	33.8	1000.0	9.000	L1	19.6	22.2	56.0
3.889500	34.0	1000.0	9.000	L1	19.7	22.0	56.0
19.158000	31.6	1000.0	9.000	L1	19.9	28.4	60.0

#### Final Result 2

Frequency	Average	Meas. Time	Bandwidth	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)		(dB)	(dB)	(dBµV)
0.343500	29.9	1000.0	9.000	L1	19.6	19.2	49.1
0.546000	37.7	1000.0	9.000	L1	19.6	8.3	46.0
1.212000	28.7	1000.0	9.000	L1	19.6	17.3	46.0
1.761000	29.4	1000.0	9.000	L1	19.5	16.6	46.0
2.220000	29.5	1000.0	9.000	L1	19.6	16.5	46.0
19.158000	22.0	1000.0	9.000	L1	19.9	28.0	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 (≥30MHz)	Zhang Tianli
Conducted Emissions	Yang Mengke

#### Table C-1: Persons involved

# **ANNEX D: Accreditation Certificate**



\*\*\*END OF REPORT\*\*\*