





NFC TEST REPORT

No.120Z62284-IOT07

for

TCL Communication Ltd.

HSUPA/HSDPA/UMTS 7 Bands/GSM Quad Bands/

LTE 13 Bands mobile phone

T782P

FCC ID: 2ACCJN051

with

Hardware Version: 03

Software Version: 5EID

Issued Date: 2021-01-14

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

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

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: cttl terminals@caict.ac.cn, website: www.caict.ac.cn





REPORT HISTORY

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2005 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(BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology

Development Area, Beijing, P. R. China 100176





1.3. <u>Testing Environment</u>

Normal Temperature: $15-35^{\circ}$ C Extreme Temperature: $-20/+50^{\circ}$ C Normal Relative Humidity: 20-75%

Normal Air Pressure 86Kpa-106Kpa

1.4. Project data

Testing Start Date: 2020-12-29

Testing End Date: 2020-12-29

1.5. Signature

1.7 1

Zhou Bin (Prepared this test report)

Pang Shuai

(Reviewed this test report)

Zhu Liang

(Approved this test report)





2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.

5/F,Building 22E,22 Science Park East Avenue,Hong Kong Science Address:

Park, Shatin, NT, Hong Kong

Country: China

Contact: Gong Zhizhou

Telephone: 0086-755-36611722

E-mail: Zhizhou.gong@tcl.com

Fax: 0086-755-36612000-81722

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.

5/F,Building 22E,22 Science Park East Avenue,Hong Kong Science Address:

Park, Shatin, NT, Hong Kong

Country: China

Contact: Gong Zhizhou

Telephone: 0086-755-36611722

E-mail: Zhizhou.gong@tcl.com

Fax: 0086-755-36612000-81722





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

3.1. About EUT

Description HSUPA/HSDPA/UMTS 7 Bands/GSM Quad Bands/LTE 14

bands mobile phone

Model name/HVIN T782P Brand name TCL

FCC ID 2ACCJN051

UMTS Frequency Band(s) FDDI/II/IV/V/VI/VIII/XIX
GSM Frequency Band(s) GSM850/900/1800/1900
E-UTRA Frequency Band(s) FDD1/2/3/4/5/8/12/13/66

Extreme Temperature -10/+55°C

Nominal Voltage 3.85V

Extreme High Voltage 4.4V

Extreme Low Voltage 3.6V

3.2. Internal Identification of EUT

EUT ID*	IMEI/SNI	HW Version	SW Version	Date of receipt
08a	352430520005730/01	03	5EID	2020-12-24
18a	352430520005722/01	03	5EID	2020-12-24

^{*}EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE

AE ID*	Description	SN
AE1	Charger	1
AE2	USB cable	1
AE3	Battery	/
AE1		
Model	S008ACM0500200	
Manufacturer	TENPAO	
Length of cable	1	
AE2		
Model	CDA0000123C2	
Manufacturer	Shenghua	
Length of cable	1	





AE3

Model TLp043D1

Manufacturer BYD

Capacitance 4360mAh Nominal voltage 3.85v

^{*}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	18a + AE1 + AE2 + AE3	
Set.NFC02	18a + AE3	
Set. NFC03	08a	

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 Hoperating frequency.





4. Reference Documents

4.1. <u>Documents supplied by applicant</u>

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

Table 2: 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)	D 4	P(Set. NFC02)	
2	Electric Field Strength of Outside the Allocated Bands	CFR 47 § 15.225(b) CFR 47 § 15.225(c)	B.1	P(Set. NFC02)	
3	Electric Field Radiated	CFR 47 § 15.209	B.2	P(Set. NFC01)	
	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 ANNEX 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 3 Terms for result verdict

Р	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>

Table 4: Test Facilities Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL. DUE DATE	CAL. INTERVAL
1.	Spectrum Analyzer	RSA3408A	B010277	Tektronix	2021-09-24	1 Year
2.	Climatic chamber	SH242	93008658	ESPEC	2021-01-18	1 Year
3.	Test Receiver	ESU26	100235	Rohde & Schwarz	2021-03-03	1 Year
4.	BiLog Antenna	VULB9163	9163-1223	Schwarzbeck	2021-03-18	1 Year
5.	LISN	ENV216	101200	R&S	2021-02-26	1 Year
6.	Test Receiver	ESCI	100344	R&S	2021-05-19	1 Year
7.	H-field Antenna	HFH2-Z2	829324	R&S	2021-12-10	1 Year





7. Measurement Uncertainty

Table 5: 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





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:

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



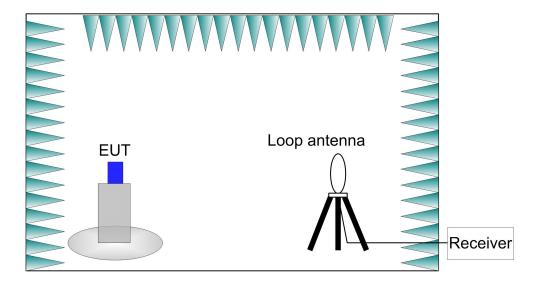


Figure B-1: Measurement Setup

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 $^{\circ}$ C.

B.1.4. Limits

Table B-2: Limits

Eroquoney Bango (MHz)	E-field Strength Limit @ 30 m	E-field Strength Limit @ 3 m
Frequency Range (MHz)	(μ V/m)	(dBµV/m)
13.560 ± 0.007	+15,848	124
13.410 to 13.553	+334	90
13.567 to 13.710	33 .	
13.110 to 13.410	+106	81
13.710 to 14.010	. 100	

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)





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.

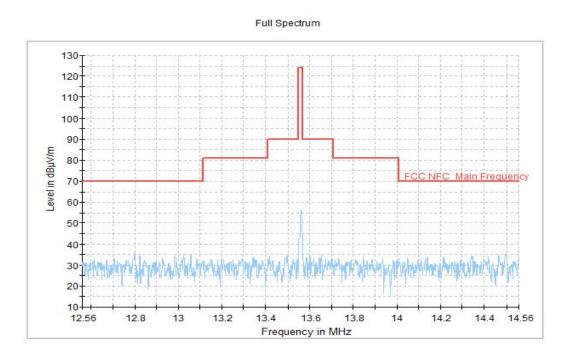


Figure B-2: Measurement results for Electric Field Strength of Fundamental and Outside the Allocated bands

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 ©Copyright. All rights reserved by CTTL.





the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

Table B-3: Measurement bandwidth

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

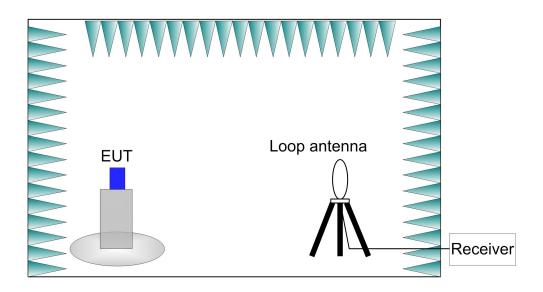


Figure B-3: Measurement Setup

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

Table B-4: Limits





Fraguency Banga (MHz)	E-field Strength Limit @ 30m	E-field Strength Limit @ 3m	
Frequency Range (MHz)	(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)

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.

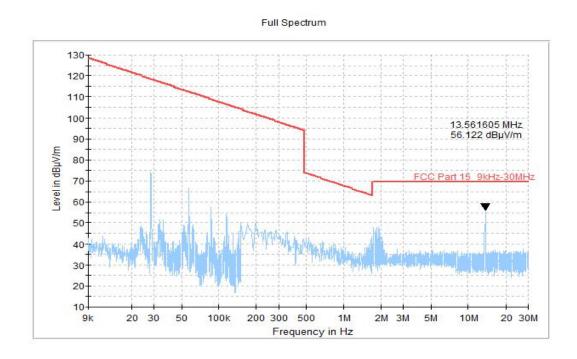


Figure B-4: Measurement results for Electric Field Radiated Emissions (< 30MHz)

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:

Table B-5: Measurement bandwidth

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

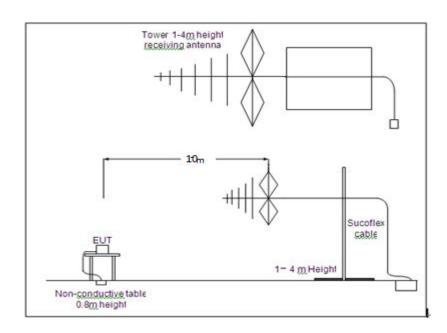


Figure B-5: Measurement Setup

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.





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

Table B-6: 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.

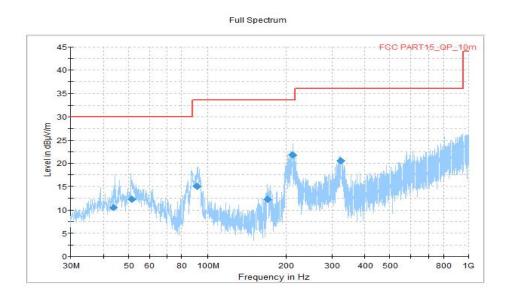


Figure B-6: Measurement results for Electric Field Radiated Emissions (≥30MHz)

Final_Result





Frequency	QuasiPeak	Height	Polarization Azimuth		Margin	Limit
(MHz)	(dBµV/m)	(cm)		(deg)	(dB)	(dBµV/m)
43.756000	10.44	218.0	V	11.0	19.56	30.00
51.229000	12.28	118.0	V	172.0	17.72	30.00
91.535000	14.98	101.0	V	1.0	18.54	33.50
170.036000	12.26	111.0	V	-24.0	21.26	33.50
211.852000	21.84	104.0	V	115.0	11.68	33.50
324.363000	20.55	125.0	V	-4.0	15.47	36.00

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

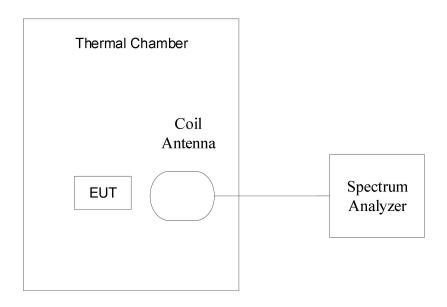


Figure B-7: Measurement Setup

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 3.85V(See 3.1)was used and the temperature was varied from -20 $^{\circ}$ C to +50 $^{\circ}$ C in 10 $^{\circ}$ C increments using an environmental chamber.
- b) The 20 $^{\circ}$ C was used and the voltages were 3.6V, 3.85V and 4.4V (The extreme low voltage ,the nominal voltage and the extreme high voltage defined in section 3.1).

The details were as following:

Table B-7: Combinations of Voltage and Temperature

Test items	Voltage	Temperature
Frequency		-20℃
stability with respect to ambient		-10℃
temperature		0℃
	3.85V	10℃
		20℃
		30℃
		40℃
		50℃
Frequency stability	3.6V	
when varying supply voltage	3.85V	20℃
	4.4V	

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-9 for different test conditions.

Conclusions: Set.NFC03, PASS.

 Table B-8:
 Measurement results for Frequency Tolerance

Tomporatura	Voltago	Frequency (MHz)				
Temperature	Voltage	Startup	2 Min Later	5 Min Later	10 Min Later	
-20℃	3.85V	13.560055625	13.560041875	13.560038750	13.560038125	
-10℃	3.85V	13.560060625	13.560063125	13.560064375	13.560065125	
0℃	3.85V	13.560068125	13.560067825	13.560067315	13.560066835	
10℃	3.85V	13.560058750	13.560056875	13.560053125	13.560051875	
20℃	3.85V	13.560030625	13.560028125	13.560024375	13.560023750	
30℃	3.85V	13.559994375	13.559993750	13.559991875	13.559991250	
40℃	3.85V	13.559963125	13.559964375	13.559961875	13.559960625	
50℃	3.85V	13.559953125	13.559943125	13.559942150	13.559941875	
20℃	3.6V	13.560018125	13.560023125	13.560023750	13.560024315	
20℃	4.4 V	13.560014375	13.560015125	13.560016375	13.560019375	

Temperature	Voltage	Frequency Error (%)			
remperature	voltage	Startup	2 Min Later	5 Min Later	10 Min Later
-20℃	3.85V	0.000	0.000	0.000	0.000
-10℃	3.85V	0.000	0.000	0.000	0.000
0℃	3.85V	0.001	0.001	0.000	0.000
10℃	3.85V	0.000	0.000	0.000	0.000





20℃	3.85V	0.000	0.000	0.000	0.000
30℃	3.85V	0.000	0.000	0.000	0.000
40℃	3.85V	0.000	0.000	0.000	0.000
50℃	3.85V	0.000	0.000	0.000	0.000
20℃	3.6V	0.000	0.000	0.000	0.000
20℃	4.4V	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.

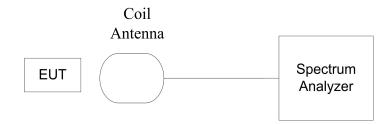


Figure B-8: Measurement Setup

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, 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.

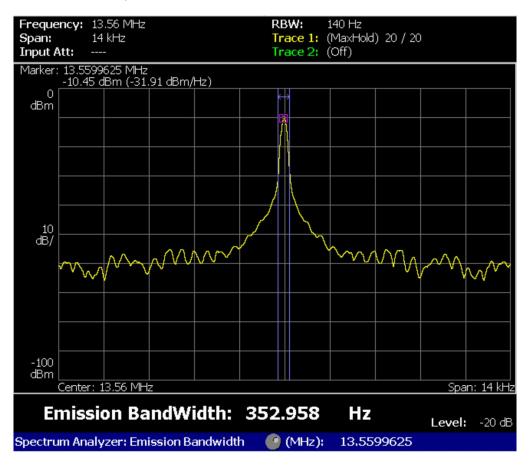


Figure B-9: Measurement results for 20dB Bandwidth

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		

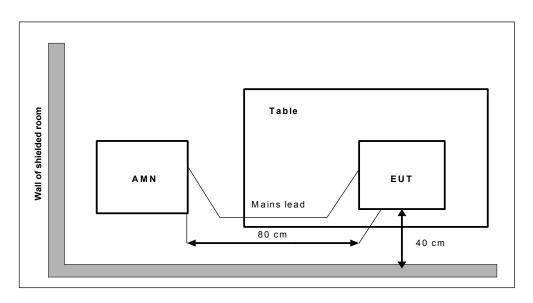


Figure B-10: Measurement Setup

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 ~ 25 $\,^{\circ}$ C.

B.6.4. Limits

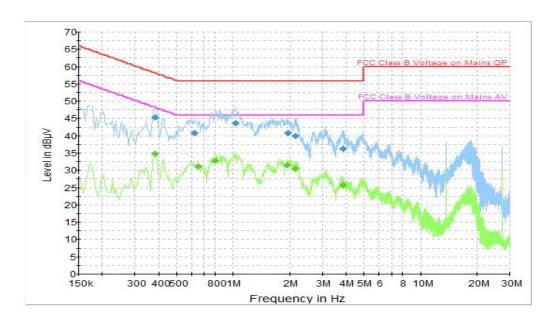
Table B-10: Limits

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

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)
0.384000	45.4	1000.0	9.000	L1	19.6	12.8	58.2
0.622500	40.7	1000.0	9.000	N	19.5	15.3	56.0
1.032000	43.8	1000.0	9.000	N	19.6	12.2	56.0
1.977000	40.8	1000.0	9.000	L1	19.5	15.2	56.0
2.152500	40.0	1000.0	9.000	N	19.5	16.0	56.0





	3.844500	36.3	1000.0	9.000	L1	19.7	19.7	56.0
- 1								

Final Result 2

Frequency	Average	Meas. Time	Bandwidth	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)		(dB)	(dB)	(dBµV)
0.384000	34.9	1000.0	9.000	L1	19.6	13.3	48.2
0.654000	31.3	1000.0	9.000	L1	19.6	14.7	46.0
0.802500	32.9	1000.0	9.000	L1	19.6	13.1	46.0
1.941000	31.5	1000.0	9.000	N	19.5	14.5	46.0
2.143500	30.6	1000.0	9.000	N	19.5	15.4	46.0
3.862500	25.8	1000.0	9.000	L1	19.7	20.2	46.0

ANNEX C: Persons involved in this testing

Table C-1: Persons involved





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)	Ding Zai
Conducted Emissions	Yang Mengke



ANNEX D: Accreditation Certificate

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 600118-0

Telecommunication Technology Labs, CAICT

Beijing China

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Electromagnetic Compatibility & Telecommunications

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).

2020-09-29 through 2021-09-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program

END OF REPORT