

NFC TEST REPORT

No.I19Z60700- IOT01

for

Hytera Communications Corporation Limited

Smart LTE Terminal

PNC550

FCC ID: YAMPNC550B9

with

Hardware Version: 1.01 Software Version: V1.0.01.001.01

Issued Date: 2019-07-24



Note:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I19Z60700-IOT01	Rev.0	1st edition	2019-05-15
I19Z60700-IOT01	Rev.1	2nd edition	2019-07-20
I19Z60700-IOT01	Rev.2	Marked the E-field	2019-07-24
		value on Figure C-1	



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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 (CN0066). 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(Shouxiang)

Address:

No. 51 Shouxiang Science Building, Xueyuan Road, Haidian District, Beijing, P. R. China 100191



1.3. <u>Testing Environment</u>

Normal Temperature:	15-35 ℃
Extreme Temperature:	-20/+55°C
Relative Humidity:	20-75%

1.4. Project data

Testing Start Date:	2019-04-22
Testing End Date:	2019-05-14

1.5. Signature

子长 子展

Zhang Qiang (Prepared this test report)

Zhu Liang (Reviewed this test report)

Gao Hong (Approved this test report)



2. <u>Client Information</u>

2.1. Applicant Information

Company Name:	Hytera Communications Corporation Limited
Address:	Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, People's Republic of China
City:	SHENZHEN
Postal Code:	518054
Country:	CHINA
Telephone:	13717055929
Fax:	/

2.2. Manufacturer Information

Company Name:	Hytera Communications Corporation Limited
Adross	Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road,
Address:	Nanshan District, Shenzhen, People's Republic of China
City:	SHENZHEN
Postal Code:	518054
Country:	CHINA
Telephone:	13717055929
Fax:	/



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

3.1. About EUT

Description	Smart LTE Terminal
Model name/HVIN	PNC550
Marketing Name/PMN	PNC550
Brand name	Hyteta
FCC ID	YAMPNC550B9
UMTS Frequency Band(s)	FDD II/IV/V
GSM Frequency Band(s)	GSM900/1800/1900/850
E-UTRA Frequency Band(s)	FDD02/03/04/05/07/12/13/17/26/28/38
Extreme Temperature	-20/+60 ℃
Nominal Voltage	3.8V
Extreme High Voltage	4.35V
Extreme Low Voltage	3.5V

Note: Photographs of EUT are shown in ANNEX A of this test report.

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
EUT1	864608040026119	1.01	V1.0.01.001.01	2019-04-22
EUT4	864608040026069	1.01	V1.0.01.001.01	2019-04-22

3.3. Internal Identification of AE

AE ID*	Description	SN
AE1	Battery	/
AE2	Charger	/
AE3	USB Cable	/
AE13	NFC Card	/

AE1

Model	BP4003
Manufacturer	FPR Connectivity Technology Inc.
Capacitance	4000mAh
Nominal voltage	/
AE2	
Model	PS2032
Manufacturer	TENPAO
Length of cable	/
AE3	
Model	PC143(C-type)



Manufacturer Length of cable TENPAO /

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

3.4. EUT Set-ups

EUT Set-up No.	Combination of EUT and AE	Remarks
Set. NFC01	EUT1 + AE1 + AE2 + AE3+ AE13	
Set. NFC02	EUT1 + AE1 + AE13	
Set. NFC03	EUT4	

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 of without modulation: The EUT will transmit the CW signal at the <u>operating</u> <u>frequency</u>.



4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. <u>Reference Documents for testing</u>

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;	2016
	General Rules and Regulations.	
CFR 47 Part 15	Part 15 — Radio Frequency Devices.	2016
	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	Field Strength of CFR 47 § 15.225(a)		P(Set. NFC02)
	Fundamental Emissions	CFR 47 9 15.225(a)	0.1	F (Set. NI C02)
2	Electric Field Strength of	CFR 47 § 15.225(b)	C.1	P(Set. NFC02)
2	Outside the Allocated Bands	CFR 47 § 15.225(c)		
3	Electric Field Radiated	CFR 47 § 15.209	C.2	P(Set. NFC01)
3	Emissions	CFR 47 § 15.225(d)	C.3	P(Set. NFC01)
4	Frequency Tolerance	CFR 47 § 15.225(e)	C.4	P(Set. NFC03)
5	20dB Bandwidth	CFR 47 § 15.215(c)	C.5	P(Set. NFC03)
6	Conducted Emissions	CFR 47 § 15.207	C.6	P(Set. NFC01)
The measurement is carried out according to ANSI C63.4. See ANNEX C for details.				

Test Conditions:

For this report, all the test case listed above were tested under normal Humidity and Air Pressure. And except the Frequency Tolerance case, all the other cases were tested with Temperature in the range of 15~25 $^{\circ}$ C and under normal Voltage. The specific conditions used are as following:

	T min	-20 (only for Frequency Tolerance test)
Temperature	T nom	20°C (only for Frequency Tolerance test)
	T max	50 °C (only for Frequency
		Tolerance test)
	V min	3.5 V (only for Frequency
		Tolerance test)
Voltage	V nom	3.8 V
	V max	4.35 V (only for Frequency
		Tolerance test)
Humidity	H nom	44%
Air Pressure	A nom	1010 mbar

5.2. Terms Used in the Summary of Test Results

Terms Used in Condition Column:

T nom	Normal Temperature
T min	Low Temperature
T max	High Temperature
V nom	Normal Voltage
V min	Low Voltage



V max	High voltage
H nom	Norm Humidity
A nom	Norm Air Pressure

Terms Used in Verdict Column:

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



6. Test Facilities Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL. DUE DATE	CAL. INTERVAL
1.	Spectrum Analyzer	RSA3408A	B010277	Tektronix	2019-09-20	1 Year
2.	Climatic chamber	SH242	93008658	Key sight	2020-02-27	1 Year
3.	H-field Antenna	HFH2-Z2	829324/007	R&S	2020-12-03	1 Year
4.	Test Receiver	ESCI	100344	R&S	2020.02.14	1 Year
5.	Universal Radio Communication Tester	CMW500	150344	R&S	2019-12-27	1 Year
6.	Universal Radio Communication Tester	CMW500	116588	R&S	2019-12-26	1 Year
7.	LISN	ENY216	101459	R&S	2020-04-10	1 Year
8.	Test Receiver	ESU26	100235	Rohde & Schwarz	2020-03-01	1 Year
9.	BiLog Antenna	VULB9163	483	Schwarzbeck	2021-08-21	3 years



7. Measurement Uncertainty

Item	<u>Uncertainty</u>
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> =5.26 dB, k=2
Conducted emission	<i>U</i> = 3.38 dB, k=2



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ANNEX A: EUT photograph



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ANNEX B: EUT parameters

/



ANNEX C: Detailed Test Results

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

C.1.1. Reference

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

C.1.2. Measurement Methods

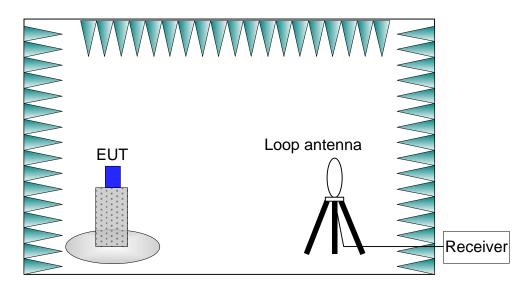
The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field 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:

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

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

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



C.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 $15 \sim 25$ °C.



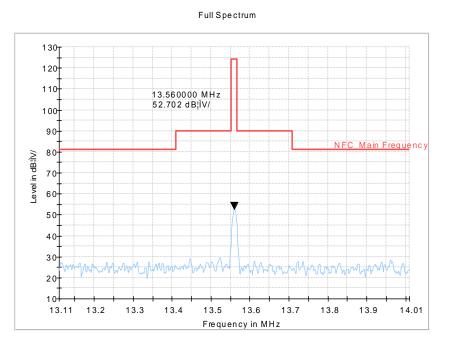
C.1.4. Limits

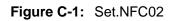
Frequency Range (MHz)	E-field Strength Limit @ 30 m (µV/m)	E-field Strength Limit @ 3 m (dBµV/m)	
13.560 ± 0.007	+15,848	124	
13.410 to 13.553	+334	00	
13.567 to 13.710	+334	90	
13.110 to 13.410	+106	91	
13.710 to 14.010		81	
Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:			
Extrapolation(dB) = $40\log_{10}$ (Measurement Distance/Specification Distance)			

C.1.5. Measurement Results

Measurement results of normal conditions see Figure C-1 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses.

Conclusions: Set.NFC02, PASS.





C.2. Electric Field Radiated Emissions (< 30MHz)

C.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.

C.2.2. Measurement Methods



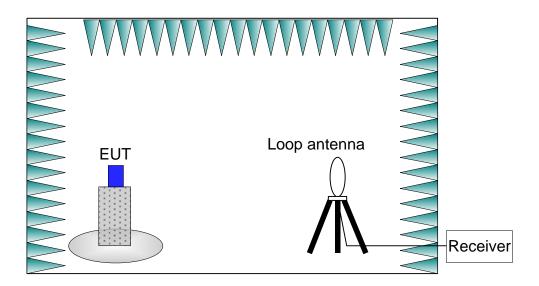
The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field 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:

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



C.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 $\,^\circ \text{C}.$

C.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	

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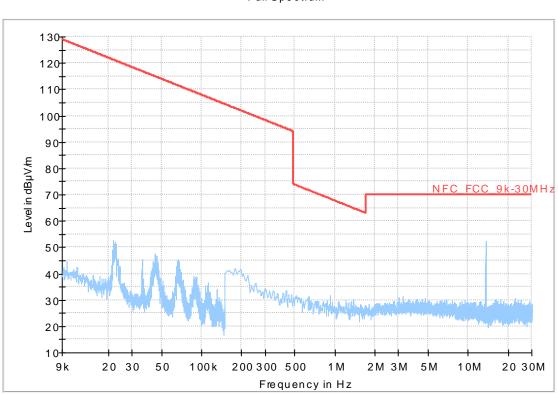


0.490-1.705	24000/F(kHz)	74-63
1.705-30 30		70
Note: Where the limits have been defined at one distance, and a signal level measured at		
another, the limits have been extrapolated using the following formula:		
Extrapolation(dB) = $40\log_{10}$ (Measurement Distance/Specification Distance)		

C.2.5. Measurement Results

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

Conclusions: Set.NFC01, PASS.



Full Spectrum

Figure C-2: Set.NFC01



C.3. Electric Field Radiated Emissions (≥30MHz)

C.3.1. Reference

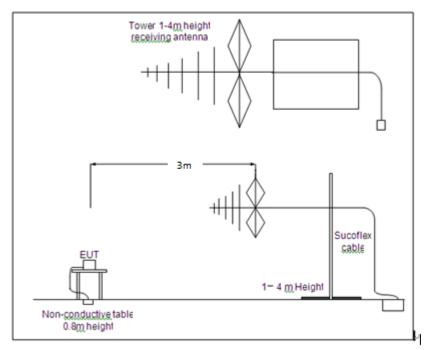
See Clause 6.5 of ANSI C63.10-2013 specifically. See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

C.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



C.3.3. EUT Operating Mode and Test Conditions

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

EUT1 had been connected to a travel adapter.

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

in the range of $15 \sim 25$ °C.



C.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

C.3.5. Measurement Results

Measurement results of normal conditions see Figure C-3 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses.

Conclusions: Set.NFC01, PASS.

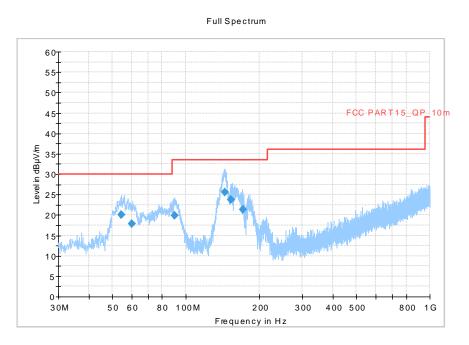


Figure C-3: Set.NFC01

Final Result 1

Frequency	QuasiPeak	Limit	Margin	Meas.	Bandwidth	Height	Pol	Azimuth
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Time	(kHz)	(cm)		(deg)
				(ms)				
54.250000	20.05	30.00	9.95	1000.0	120.000	125.0	v	199.0
59.955000	17.87	30.00	12.13	1000.0	120.000	114.0	v	187.0
90.112000	19.81	33.50	13.71	1000.0	120.000	175.0	v	-27.0
144.529000	25.66	33.50	7.86	1000.0	120.000	187.0	v	96.0
152.816000	23.79	33.50	9.73	1000.0	120.000	121.0	v	72.0
171.347000	21.27	33.50	12.25	1000.0	120.000	109.0	v	26.0

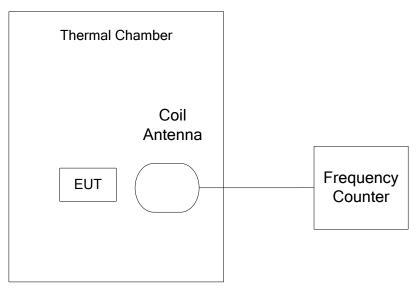


C.4. Frequency Tolerance

C.4.1. Reference

See Clause 13.6 of ANSI C63.10-2013 specifically. See Clause 4, Clause 5, and Clause 6 of ANSI C63.10-2013 generally.

C.4.2. Measurement Methods



The transmitter output signal was picked up by coil antenna connected to the frequency counter. 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.

C.4.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of without modulation(See 3.4). EUT4 had been not connected to a travel adapter.

Operation Temperature: T min, T nom, and T max with V nom.

Operation Voltage: V min and V max with T nom.

C.4.4. Test Layouts

See C.4.2.

C.4.5. Limits

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

C.4.6. Measurement Results

Measurement results see Table C-1 for different test conditions. **Conclusions:** Set.NFC03, **PASS**.



Tomporatura	Valtaga	Frequency Error (MHz)				
Temperature	Voltage	Startup	2 Min Later	5 Min Later	10 Min Later	
T min	V nom	13.559833125	13.55985625	13.559953125	13.55995875	
T max	V nom	13.559849375	13.559841875	13.559825625	13.55981625	
T nom	V nom	13.55983625	13.559836875	13.559835	13.559831875	
T nom	V min	13.559875	13.559874375	13.55987375	13.559873125	
T nom	V max	13.559825	13.559825625	13.559824375	13.55982625	

Table C-1: Frequency Stability VS Temperature and Voltage

Tomporatura	Voltago	Frequency Error (%)				
Temperature	Voltage	Startup	2 Min Later	5 Min Later	10 Min Later	
T min	V nom	-0.001	-0.001	0.000	0.000	
T max	V nom	-0.001	-0.001	-0.001	-0.001	
T nom	V nom	-0.001	-0.001	-0.001	-0.001	
T nom	V min	-0.001	-0.001	-0.001	-0.001	
T nom	V max	-0.001	-0.001	-0.001	-0.001	

C.4.7. Measurement Uncertainty

Measurement uncertainty: U=77 Hz, k=2

C.5. 20dB Bandwidth

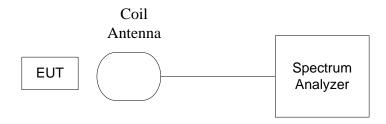
C.5.1. Reference

See Clause 13.7 of ANSI C63.10-2013 specifically. See Clause 4, Clause 5, and Clause 6 of ANSI C63.10-2013 generally.

C.5.2. Measurement Methods

The transmitter output signal was picked up by coil antenna to the spectrum analyzer.

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.



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C.5.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC and without modulation(See 3.4).

EUT4 had been not connected to a travel adapter..

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

C.5.4. Test Layouts

See C.5.2.

C.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.

C.5.6. Measurement Results

Measurement results see Figure C-4. **Conclusions:** Set.NFC03, **PASS**.

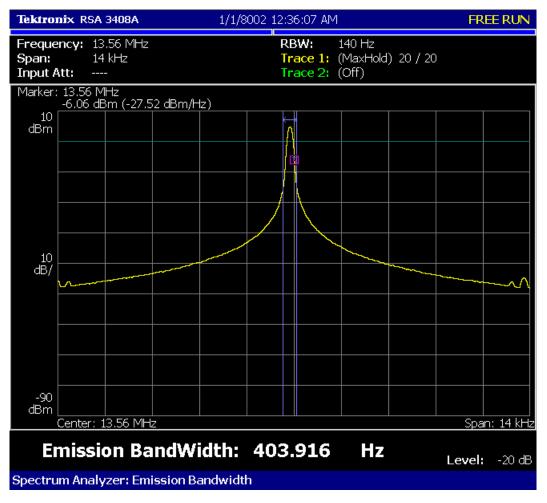


Figure C-4: Set.NFC01

C.5.7. Measurement Uncertainty

Measurement uncertainty: U=77 Hz, k=2



C.6. Conducted emission

C.6.1. Reference

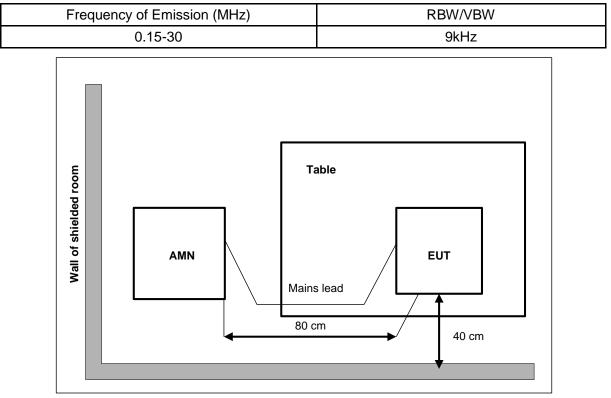
See Clause 6.2 of ANSI C63.10-2013 specifically. See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

C.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:



C.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 $^{\circ}$ C.

C.6.4. Lin

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

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C.6.5. Measurement Results

Measurement results see Figure C-5. **Conclusions:** Set.NFC01, **PASS**.

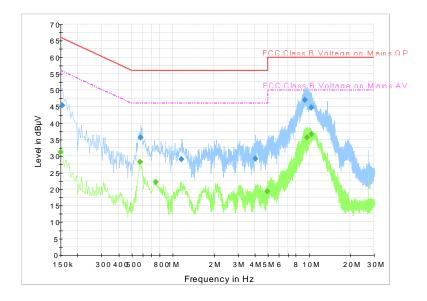


Figure C-5: Conducted Emission

Final Result 1

Frequency	QuasiPeak	Meas.	Bandwidth	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)		(dB)	(dB)	(dBµV)
		(ms)					
0.154500	45.4	2000.0	9.000	L1	29.7	20.3	65.8
0.582000	35.6	2000.0	9.000	L1	19.8	20.4	56.0
1.158000	29.0	2000.0	9.000	N	19.7	27.0	56.0
4.051500	29.2	2000.0	9.000	N	19.6	26.8	56.0
9.339000	47.0	2000.0	9.000	L1	19.7	13.0	60.0
10.414500	44.7	2000.0	9.000	L1	19.7	15.3	60.0

Final Result 2

Frequency	Average	Meas.	Bandwidth	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)		(dB)	(dB)	(dBµV)
		(ms)					
0.150000	31.1	2000.0	9.000	L1	30.7	24.9	56.0
0.573000	28.2	2000.0	9.000	L1	19.8	17.8	46.0
0.753000	22.1	2000.0	9.000	L1	19.8	23.9	46.0
4.960500	19.3	2000.0	9.000	L1	19.6	26.7	46.0
9.708000	35.7	2000.0	9.000	L1	19.7	14.3	50.0
10.414500	36.6	2000.0	9.000	L1	19.7	13.4	50.0



ANNEX D: Persons involved in this testing

Test Item	Tester	
20dB Bandwidth	Zhou Bin	
Frequency Tolerance	Zhang Qiang	
Electric Field Strength of Fundamental and Outside	Li Pengfei	
the Allocated bands		
Electric Field Radiated Emissions (< 30MHz)	Li Pengfei	
Electric Field Radiated Emissions (≥30MHz)	Li Pengfei	
Conducted Emissions	Li Jinpeng	



ANNEX E: Accreditation Certificate



END OF REPORT