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FCC REPORT

Report Reference No.....: CHTEW20110062 Report verification:

Project No.:: SHT2010025503EW

FCC ID.....:: 2ASWWC55PRO

Applicant's name.....: XINCHUANGXIN INTERNATIONAL CO.,LTD

ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA Address.....:

YUEN STREET MONGKOK KL

Manufacturer....: Shenzhen Chiteng Technology Co.,LTD

Address....: Second Floor, Area A. Building 4, Huiye Technology Workshop,

Guanguang Road, Tangjia Community, Gongming Street,

Guangming New District, Shenzhen, Guangdong

Test item description: SMART PHONE

Trade Mark: CORN

Model/Type reference.....: C55 Pro

Listed Model(s) C55 Lite, C55+, C55 Max, C55 Mini

FCC CFR Title 47 Part 2 Standard::

> FCC CFR Title 47 Part 22 FCC CFR Title 47 Part 24

Date of receipt of test sample.....: Oct. 23, 2020

Date of testing..... Oct. 24, 2020- Nov. 11, 2020

Date of issue..... Nov. 12, 2020

Result.....: **Pass**

Compiled by

File administrators Silvia Li (position+printedname+signature)...:

Supervised by

(position+printedname+signature)....: Project Engineer Aaron Fang Silvia li Aaron.Fang Hunsty

Approved by

(position+printedname+signature)....: Manager Hans Hu

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.

Address....: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road,

Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

FCC Rules Part 2: FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

FCC Rules Part 22: PUBLIC MOBILE SERVICES

FCC Rules Part 24: PERSONAL COMMUNICATIONS SERVICES

TIA/EIA 603 E March 2016: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

KDB 971168 D01 Power Meas License Digital Systems v03: MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2020-11-12	Original

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2. Test Description

Test Item	Section in CFR 47	Result	Test Engineer
	Part 2.1046		
Conducted Output Power	Part 22.913(a)	Pass	Jiongsheng Feng
	Part 24.232(c)		
Peak-to-Average Ratio	Part 24.232	Pass	Jiongsheng Feng
000/ 0	Part 2.1049		
99% Occupied Bandwidth & 26 dB Bandwidth	Part 22.917(b)	Pass	Jiongsheng Feng
Bandwidth	Part 24.238(b)		
	Part 2.1051		
Band Edge	Part 22.917	Pass	Jiongsheng Feng
	Part 24.238		
	Part 2.1051		
Conducted Spurious Emissions	Part 22.917	Pass	Jiongsheng Feng
	Part 24.238		
	Part 2.1055(a)(1)(b)		
Frequency stability VS Temperature	Part 22.355	Pass	Jiongsheng Feng
	Part 24.235		
	Part 2.1055(d)(1)(2)		
Frequency stability VS Voltage	Part 22.355	Pass	Jiongsheng Feng
	Part 24.235		
ERP and EIRP	Part 22.913(a)	Pass	Pan Xie
ERF did EIRF	Part 24.232(b)	F a 5 5	Pall Ale
	Part 2.1053		
Radiated Spurious Emissions	Part 22.917	Pass	Pan Xie
	Part 24.238		

Note: The measurement uncertainty is not included in the test result.

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3. **SUMMARY**

3.1. Client Information

Applicant:	XINCHUANGXIN INTERNATIONAL CO.,LTD
Address:	ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA YUEN STREET MONGKOK KL
Manufacturer:	Shenzhen Chiteng Technology Co.,LTD
Address:	Second Floor, Area A, Building 4, Huiye Technology Workshop, Guanguang Road, Tangjia Community, Gongming Street, Guangming New District, Shenzhen, Guangdong

3.2. Product Description

Name of EUT:	SMART PHONE		
Trade Mark:	CORN		
Model No.:	C55 Pro		
Listed Model(s):	C55 Lite,C55+, C5	55 Max, C55 Mini	
SIM Information:	Support Two SIM	Card	
Power supply:	DC 3.7V		
Adapter information:	Model: CS001 Input: AC100-240V, 50/60Hz, 0.15A Output: 5.0Vdc,1.0A		
Hardware version:	V1.0		
Software version:	CORN C55 Pro_V01		
2G:			
Support Network:	GSM, GPRS		
Support Band:	GSM850, PCS190	00	
Modulation:	GSM/GPRS:	GMSK	
Transmit Frequency:	GSM850:	824.20MHz-848.80MHz	
	PCS1900:	1850.20MHz-1909.80MHz	
Receive Frequency:	GSM850:	869.20MHz-893.80MHz	
	PCS1900:	1930.20MHz-1989.80MHz	
GPRS Multislot Class:	12		
Antenna type:	Internal Antenna		
Antenna gain:	GSM850: 0.3dBi PCS1900: 1.3dBi		

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3.3. Operation state

Test frequency list

GSN	1850	PCS1900		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
128	824.20	512	1850.20	
190	836.60	661	1880.00	
251	848.80	810	1909.80	

> Test mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 and ANSI C63.26-2015 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

30 MHz to 10th harmonic for GSM850, PCS1900.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test modes				
Band	Radiated	Conducted		
GSM 850	■ GSM link ■ GPRS Class 8 link	■ GSM link ■ GPRS Class 8 link		
PCS 1900	■ GSM link ■ GPRS Class 8 link	■ GSM link ■ GPRS Class 8 link		

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

supplied by the manufacturer
 supplied by the lab

	0	Supplied by the lab		
	0		Manufacturer:	/
0	7	Model No.:	/	
		1	Manufacturer:	/
0	1	Model No.:	/	

3.5. Modifications

No modifications were implemented to meet testing criteria.

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4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

4.2. Test Facility

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files.

IC-Registration No.:5377A

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No.: 5377A.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

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4.3. Equipments Used during the Test

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2020/10/19	2021/10/18
•	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2020/10/19	2021/10/18
•	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2020/10/19	2021/10/18
•	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

•	Radiated Spurious Emission						
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2021/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2020/10/20	2021/10/19
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/11
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2018/04/04	2021/04/03
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2019/11/14	2020/11/13
•	Broadband Preamplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/23	2021/05/22
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 02	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 03	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 04	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0121- 01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	EMI Test Software	Audix	N/A	E3	N/A	N/A	N/A

•	Auxiliary Equipment						
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Climate chamber	ESPEC	HTWE0254	GPL-2	N/A	2020/10/15	2021/10/14
•	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A

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4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

	VN=Nominal Voltage	DC 3.70V	
Voltage	VL=Lower Voltage	DC 3.60V	
	VH=Higher Voltage	DC 4.20V	
Tomporoturo	TN=Normal Temperature	25 °C	
Temperature	Extreme Temperature From -30° to + 50° centigrade		
Humidity	30~60 %		
Air Pressure 950-1050 hPa			

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1"and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.51 dB	(1)
Transmitter power Radiated	2.66dB for <1GHz 3.44dB for >1GHz	(1)
Conducted spurious emissions 9kHz~40GHz	0.51 dB	(1)
Radiated spurious emissions	2.66dB for <1GHz	(1)
rtadiated oparious simissions	3.44dB for >1GHz	(1)
Occupied Pandwidth	15Hz for <1GHz	(1)
Occupied Bandwidth	70Hz for >1GHz	(1)
Eroguenov orror	15Hz for <1GHz	(1)
Frequency error	70Hz for >1GHz	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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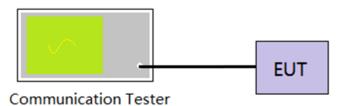
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT output port was connected to communication tester.
- 2. Set EUT at maximum power through communication tester.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix A on the section 8 appendix report

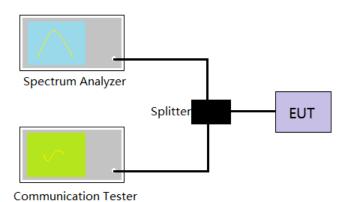
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5.2. Peak-to-Average Ratio

LIMIT

13dB

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Center Frequency = Carrier frequency, RBW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed.
 - i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
 - ii. For bursttransmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that issynced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in whichthetransmitter is operating at maximum power
- 6. Record the maximum PAPR level associated with a probability of 0.1%.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix B on the section 8 appendix report

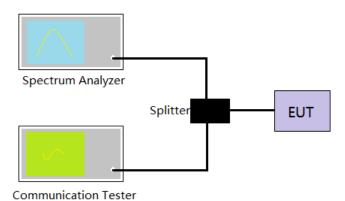
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5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

<u>LIMIT</u>

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Center Frequency= Carrier frequency, RBW=1% to 5% of anticipated OBW, VBW= 3 * RBW, Detector=Peak,

Trace maximum hold.

4. Record the value of 99% Occupied bandwidth and -26dB bandwidth.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix C on the section 8 appendix report

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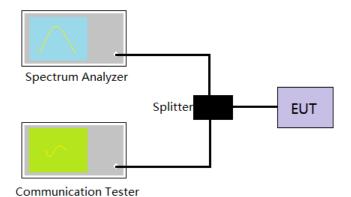
5.4. Band Edge

LIMIT

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- Set EUT in maximum power output.
- 3. The band edges of low and high channels were measured.
- Spectrum analyzer setting as follow:
 RBW=3KHz, VBW = 10KHz, Sweep time= Auto
- 5. Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix D on the section 8 appendix report

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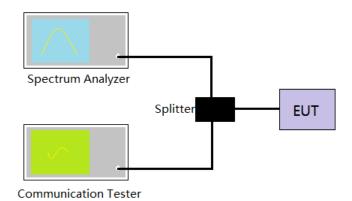
5.5. Conducted Spurious Emissions

LIMIT

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=Peak, Sweep time= Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time= Auto Scan frequency range up to 10th harmonic.

4. Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix E on the section 8 appendix report

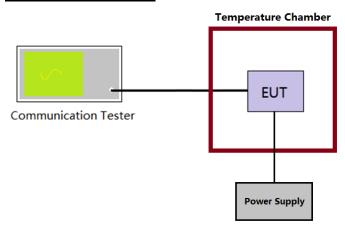
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5.6. Frequency stability VS Temperature measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber.
- 4. Turn EUT off and set the chamber temperature to −30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- 5. Repeat step 4 measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix F on the section 8 appendix report

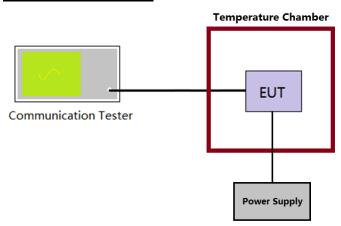
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5.7. Frequency stability VS Voltage measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber at 25°C
- 4. The power supply voltage to the EUT was varied ±15% of the nominal value measured at the input to the EUT
- 5. Record the maximum frequency change.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix F on the section 8 appendix report

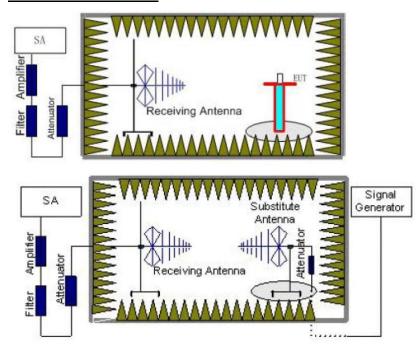
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5.8. ERP and EIRP

LIMIT

GSM850: 7W (38.45dBm) ERP PCS1900: 2W (33dBm) EIRP

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- 2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- 4. Receiver or Spectrum set as follow:
 - Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- 7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any

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potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.

- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation: Pe = Ps(dBm) cable loss (dB) + antenna gain (dBd) where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: gain (dBd) = gain (dBi) - 2.15 dB.

If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

Please refer to the clause 3.3

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Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result
	128	V	28.14		
	120	Н	28.05		
GSM850	190	V	28.50	<38.45	Pass
GSIVIOSU	190	Н	27.88	<30.40	Fd55
	251	V	28.46		
	251	Н	27.88		
	128	V	28.17		
	120	Н	28.12		
GPRS850	190	V	28.54	<38.45	Pass
GPK3030	190	Н	28.01	<30.45	Fd55
	251	V	28.42		
	231	Н	27.93		

Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
	512	V	19.75		
	512	Н	25.49		
PCS1900	661	V	20.97	<33.00	Pass
PC31900	001	Н	24.14	<33.00	Pass
	940	V	20.93		
	810	Н	23.91		
	512	V	19.82		
	312	Н	25.53		
GPRS1900	661	V	21.04	<33.00	Pass
GPR31900	661	Н	24.26	<33.00	Pass
	910	V	21.10		
	810	Н	24.07		

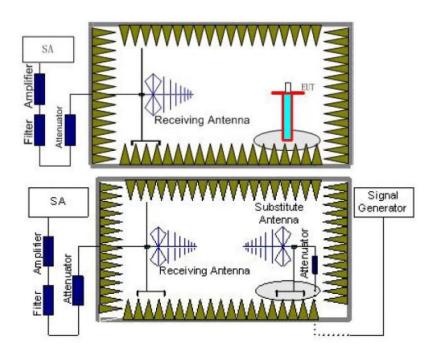
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5.9. Radiated Spurious Emission

LIMIT

-13dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- 2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- 4. Receiver or Spectrum set as follow:
 - Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- Set-up the substitution measurement with the reference point of the substitution antenna located as near
 as possible to where the center of the EUT radiating element was located during the initial EUT
 measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by

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the measurement instrument, with sufficient dynamic range relative to the noise floor.

- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation: Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd)

where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: gain (dBd) = gain (dBi) - 2.15 dB.

If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Note: Worst case at GSM850/PCS1900

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Channel: 251					Polariz	zation: Hori	zontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	41.17	-67.25	27.72	6.57	30.87	-63.83	-13.00	-50.83	Peak
2	400.56	-74.01	26.20	8.32		-69.60	-13.00	-56.60	Peak
3	1711.25	-58.42	36.39	11.71		-39.44	-13.00	-26.44	Peak
4	2327.59	-69.90	40.22	12.97		-45.75	-13.00	-32.75	Peak
5	4909.94	-75.70	44.04	11.51		-55.37	-13.00	-42.37	Peak
6	7958.16	-75.48	48.08	14.42	33.32	-46.30	-13.00	-33.30	Peak
Channel: 251					Polariz	zation: Vert	ical		
		n !!							
Mark	Frequency MHz	dBm	Antenna dB	dB	Preamp dB	dBm	Limit dBm	Over limit	Remark
1	38.64	-60.17	21.74	6.54		-62.71	-13.00	-49.71	Peak
2	144.47	-65.10	21.31	7.24	30.36		-13.00	-53.91	Peak
3	1332.08	-69.34	37.46	12.79	29.29	-48.38	-13.00	-35.38	Peak
4	1713.13	-58.16	36.27	11.71	29.12	-39.30	-13.00	-26.30	Peak
5	4346.80	-74.17	42.88	10.70	36.20	-56.79	-13.00	-43.79	Peak
6	7575.27	-76.22	48.29	14.53	33.37	-46.77	-13.00	-33.77	Peak
Channel: 190					Polariz	zation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
rid! K	MHz	dBm	dB	dB	dB	dBm	dBm	limit	Nellidi K
1	41.75	-71.07	27.30	6.57		-68.08		-55.08	Peak
2	166.29	-71.00	20.99			-73.04	-13.00	-60.04	Peak
3	1728.25	-64.91	36.46	11.73		-45.90	-13.00		Peak
4	2638.14	-64.41	39.14	14.45		-37.42	-13.00	-24.42	Peak
5	5047.11	-75.42	44.26	11.50		-55.03		-42.03	Peak
6	7433.79	-75.15	48.39	14.29	33.98	-46.45	-13.00	-33.45	Peak
Channel: 190					Polariz	zation: Vert	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	39.05	-59.98	21.79	6.55		-62.47	-13.00	-49.47	Peak
2	84.36	-67.31	26.04			-65.07		-52.07	Peak
3	1711.25	-62.05	36.26	11.71		-43.20	-13.00	-30.20	Peak
4	2638.14	-58.17	39.45	14.45		-30.87	-13.00	-17.87	Peak
5	4818.24	-75.60	43.71	11.52		-55.62	-13.00	-42.62	Peak
6	7674.79	-75.30	48.37	14.71	33.16	-45.38	-13.00	-42.62	Peak
	70/4./9	-/3.30	40.5/	14./1	100000000000000000000000000000000000000	Maryon occupan	DEPOY OF SIGN OF	-52.50	redK
Channel: 128					Polariz	zation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	38.78	-73.18	28.61	6.54	30.83	-68.86	-13.00	-55.86	Peak
2	400.56	-74.37	26.20	8.32	30.11	-69.96	-13.00	-56.96	Peak
3	1648.51	-63.32	36.15	11.67	29.05	-44.55	-13.00	-31.55	Peak
4	2617.93	-64.84	38.93	14.47	26.75	-38.19	-13.00	-25.19	Peak
5	5279.20	-75.02	44.00	11.90	35.37	-54.49	-13.00	-41.49	Peak
6	8039.36	-74.34	47.99	14.28	33.31	-45.38	-13.00	-32.38	Peak
Channel: 128					Polaria	zation: Vert	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
	39.05	-60.32	21.79	6.55	30.83	-62.81	-13.00	-49.81	Peak
1	35.03						-13.00		
	82.02	-69.73	25.06	6.87	30.65	-68.45	-13.00	-55.45	Peak
1 2	82.02	-69.73							
1 2 3	82.02 1648.51	-69.73 -61.31	36.11	11.67	29.05	-42.58	-13.00	-29.58	Peak
1 2	82.02	-69.73							

Remark:

- 1. 2. The emission behaviour belongs to narrowband spurious emission.

 The emission levels of not record in the report are very lower than the limit and not show in test report.

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Frequency MHz 39.61 400.56 1415.05 2408.23 5725.84 7412.26 Frequency MHz 38.64 83.77 1541.65 2200.76 1996.14 7358.70 Frequency MHz 39.05 400.56 1363.16 2617.93 1988.90 7958.16	Reading dBm -72.37 -72.23 -68.27 -69.88 -74.91 -74.96 Reading dBm -59.86 -71.21 -69.21 -69.93 -75.64 -74.92 Reading dBm -73.05 -74.53 -69.21 -65.79 -75.46 -74.66	Antenna dB 28.59 26.20 37.06 39.77 43.90 48.49 Antenna dB 21.74 25.79 37.76 41.72 44.49 48.60 Antenna dB 28.60 26.20 37.09 38.93 44.32 48.08	Cable dB 6.55 8.32 12.43 14.35 Cable dB 6.54 6.88 11.72 12.59 11.57 14.07 Cable dB 6.55 8.32 12.62 14.47 11.56 14.42	Preamp dB 30.82 30.67 29.09 29.65 35.24 34.06 Polariz Preamp dB 30.83 30.11 29.20 26.75 35.23 33.32	dBm -68.08 -67.82 -47.98 -45.11 -53.44 -46.12 zation: Veri dBm -62.40 -69.21 -48.82 -45.27 -54.82 -46.31 zation: Hori -68.73 -70.12 -48.70 -39.14 -54.81 -45.48	Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	Over limit -55.08 -54.82 -34.98 -32.11 -40.44 -33.12 -40.44 -33.12 -40.44 -33.31 -40.45 -55.27 -41.82 -33.31 -40.45 -55.73 -57.12 -35.70 -26.14 -41.81 -32.48	Remark Peak Peak Peak Peak Peak Peak Peak Pe
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7412.26 Frequency MHz 38.64 83.77 1541.65 2200.76 1996.14 7358.70 Frequency MHz 39.05 400.56 1363.16 2617.93	-74.96 Reading dBm -59.86 -71.21 -69.21 -69.93 -75.64 -74.92 Reading dBm -73.05 -74.53 -69.21 -65.79 -75.46	Antenna dB 21.74 25.79 37.76 41.72 44.49 48.60 Antenna dB 28.60 26.20 37.09 38.93 44.32	Cable dB 6.54 6.88 11.72 12.59 11.57 14.07 Cable dB 6.55 8.32 12.62 14.47 11.56	Preamp dB 30.82 30.67 29.09 29.65 35.24 34.06 Polariz Preamp dB 30.83 30.11 29.20 26.75 35.23 33.32	-46.12 zation: Verion: Verion	-13.00 Limit dBm -13.00 -13.00 -13.00 -13.00 Zontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	Over limit -49.40 -56.21 -35.82 -32.27 -41.82 -33.31 Over limit -55.73 -57.12 -35.70 -26.14 -41.81	Remark Peak Peak Peak Peak Peak Peak Peak Pea
Frequency MHz 38.64 83.77 1541.65 2200.76 1996.14 7358.70 Frequency MHz 39.05 400.56 1363.16 2617.93	Reading dBm -59.86 -71.21 -69.21 -69.93 -75.64 -74.92 Reading dBm -73.05 -74.53 -69.21 -65.79 -75.46	Antenna dB 21.74 25.79 37.76 41.72 44.49 48.60 Antenna dB 28.60 26.20 37.09 38.93 44.32	Cable dB 6.54 6.88 11.72 12.59 11.57 14.07 Cable dB 6.55 8.32 12.62 14.47 11.56	Preamp dB 30.82 30.67 29.09 29.65 35.24 34.06 Polariz Preamp dB 30.83 30.11 29.20 26.75 35.23 33.32	Level -62.40 -69.21 -48.82 -45.27 -54.82 -46.31 zation: Horion dem -68.73 -70.12 -48.70 -39.14 -54.81 -45.48	Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 izontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00	Over limit -49.40 -56.21 -35.82 -32.27 -41.82 -33.31 Over limit -55.73 -57.12 -35.70 -26.14 -41.81	Remark Peak Peak Peak Peak Peak Peak Peak Pe
MHz 38.64 83.77 1541.65 2200.76 1996.14 7358.70 Frequency MHz 39.05 400.56 1363.16 2617.93	dBm -59.86 -71.21 -69.21 -69.93 -75.64 -74.92 Reading dBm -73.05 -74.53 -69.21 -65.79 -75.46	dB 21.74 25.79 37.76 41.72 44.49 48.60 Antenna dB 28.60 26.20 37.09 38.93 44.32	dB 6.54 6.88 11.72 12.59 11.57 14.07 Cable dB 6.55 8.32 12.62 14.47 11.56	Preamp dB 30.82 30.67 29.09 29.65 35.24 34.06 Polariz Preamp dB 30.83 30.11 29.20 26.75 35.23 33.32	Level dBm -62.40 -69.21 -48.82 -45.27 -54.82 -46.31 zation: Hori Level dBm -68.73 -70.12 -48.70 -39.14 -54.81 -45.48	Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 izontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	limit -49.40 -56.21 -35.82 -32.27 -41.82 -33.31 Over limit -55.73 -57.12 -35.70 -26.14 -41.81	Peak Peak Peak Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak
MHz 38.64 83.77 1541.65 2200.76 1996.14 7358.70 Frequency MHz 39.05 400.56 1363.16 2617.93	dBm -59.86 -71.21 -69.21 -69.93 -75.64 -74.92 Reading dBm -73.05 -74.53 -69.21 -65.79 -75.46	dB 21.74 25.79 37.76 41.72 44.49 48.60 Antenna dB 28.60 26.20 37.09 38.93 44.32	dB 6.54 6.88 11.72 12.59 11.57 14.07 Cable dB 6.55 8.32 12.62 14.47 11.56	dB 30.82 30.67 29.09 29.65 35.24 34.06 Polariz Preamp dB 30.83 30.11 29.20 26.75 35.23 33.32	dBm -62.40 -69.21 -48.82 -45.27 -54.82 -46.31 zation: Hori -68.73 -70.12 -48.70 -39.14 -54.81 -45.48	dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 izontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	limit -49.40 -56.21 -35.82 -32.27 -41.82 -33.31 Over limit -55.73 -57.12 -35.70 -26.14 -41.81	Peak Peak Peak Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak
MHz 38.64 83.77 1541.65 2200.76 1996.14 7358.70 Frequency MHz 39.05 400.56 1363.16 2617.93	dBm -59.86 -71.21 -69.21 -69.93 -75.64 -74.92 Reading dBm -73.05 -74.53 -69.21 -65.79 -75.46	dB 21.74 25.79 37.76 41.72 44.49 48.60 Antenna dB 28.60 26.20 37.09 38.93 44.32	dB 6.54 6.88 11.72 12.59 11.57 14.07 Cable dB 6.55 8.32 12.62 14.47 11.56	dB 30.82 30.67 29.09 29.65 35.24 34.06 Polariz Preamp dB 30.83 30.11 29.20 26.75 35.23 33.32	dBm -62.40 -69.21 -48.82 -45.27 -54.82 -46.31 zation: Hori -68.73 -70.12 -48.70 -39.14 -54.81 -45.48	dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 izontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	limit -49.40 -56.21 -35.82 -32.27 -41.82 -33.31 Over limit -55.73 -57.12 -35.70 -26.14 -41.81	Peak Peak Peak Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak
38.64 83.77 1541.65 2200.76 1996.14 7358.70 Frequency MHz 39.05 400.56 1363.16 2617.93	-59.86 -71.21 -69.21 -69.93 -75.64 -74.92 Reading dBm -73.05 -74.53 -69.21 -65.79 -75.46	21.74 25.79 37.76 41.72 44.49 48.60 Antenna dB 28.60 26.20 37.09 38.93 44.32	6.54 6.88 11.72 12.59 11.57 14.07 Cable dB 6.55 8.32 12.62 14.47 11.56	30.82 30.67 29.09 29.65 35.24 34.06 Polariz Preamp dB 30.83 30.11 29.20 26.75 35.23 33.32	-62.40 -69.21 -48.82 -45.27 -54.82 -46.31 zation: Horion Ho	-13.00 -13.00 -13.00 -13.00 -13.00 -13.00 izontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00	-49.40 -56.21 -35.82 -32.27 -41.82 -33.31 Over limit -55.73 -57.12 -35.70 -26.14 -41.81	Peak Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak Pea
83.77 1541.65 1200.76 1996.14 17358.70 Frequency MHz 39.05 400.56 1363.16 12617.93 1988.90	-71.21 -69.21 -69.93 -75.64 -74.92 Reading dBm -73.05 -74.53 -69.21 -65.79 -75.46	25.79 37.76 41.72 44.49 48.60 Antenna dB 28.60 26.20 37.09 38.93 44.32	6.88 11.72 12.59 11.57 14.07 Cable dB 6.55 8.32 12.62 14.47 11.56	30.67 29.09 29.65 35.24 34.06 Polariz Preamp dB 30.83 30.11 29.20 26.75 35.23 33.32	-69.21 -48.82 -45.27 -54.82 -46.31 zation: Horion Hor	-13.00 -13.00 -13.00 -13.00 -13.00 izontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00	-56.21 -35.82 -32.27 -41.82 -33.31 Over limit -55.73 -57.12 -35.70 -26.14 -41.81	Peak Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak Pea
Frequency MHz 39.05 400.56 1363.16 2617.93	-69.21 -69.93 -75.64 -74.92 Reading dBm -73.05 -74.53 -69.21 -65.79 -75.46	37.76 41.72 44.49 48.60 Antenna dB 28.60 26.20 37.09 38.93 44.32	11.72 12.59 11.57 14.07 Cable dB 6.55 8.32 12.62 14.47 11.56	29.09 29.65 35.24 34.06 Polariz Preamp dB 30.83 30.11 29.20 26.75 35.23 33.32	-48.82 -45.27 -54.82 -46.31 zation: Hori -68.73 -70.12 -48.70 -39.14 -54.81 -45.48	-13.00 -13.00 -13.00 -13.00 izontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00	-35.82 -32.27 -41.82 -33.31 Over limit -55.73 -57.12 -35.70 -26.14 -41.81	Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak Pea
2200.76 4996.14 7358.70 Frequency MHz 39.05 400.56 1363.16 2617.93	-69.93 -75.64 -74.92 Reading dBm -73.05 -74.53 -69.21 -65.79 -75.46	41.72 44.49 48.60 Antenna dB 28.60 26.20 37.09 38.93 44.32	12.59 11.57 14.07 Cable dB 6.55 8.32 12.62 14.47 11.56	29.65 35.24 34.06 Polariz Preamp dB 30.83 30.11 29.20 26.75 35.23 33.32	-45.27 -54.82 -46.31 zation: Hori- Level dBm -68.73 -70.12 -48.70 -39.14 -54.81 -45.48	-13.00 -13.00 -13.00 izontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00	-32.27 -41.82 -33.31 Over limit -55.73 -57.12 -35.70 -26.14 -41.81	Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak
Frequency MHz 39.05 400.56 1363.16 2617.93	-75.64 -74.92 Reading dBm -73.05 -74.53 -69.21 -65.79 -75.46	44.49 48.60 Antenna dB 28.60 26.20 37.09 38.93 44.32	11.57 14.07 Cable dB 6.55 8.32 12.62 14.47 11.56	35.24 34.06 Polariz Preamp dB 30.83 30.11 29.20 26.75 35.23 33.32	-54.82 -46.31 zation: Hori -68.73 -70.12 -48.70 -39.14 -54.81 -45.48	-13.00 -13.00 izontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00	-41.82 -33.31 Over limit -55.73 -57.12 -35.70 -26.14 -41.81	Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak
Frequency MHz 39.05 400.56 1363.16 2617.93	-74.92 Reading dBm -73.05 -74.53 -69.21 -65.79 -75.46	48.60 Antenna dB 28.60 26.20 37.09 38.93 44.32	Cable dB 6.55 8.32 12.62 14.47 11.56	Preamp dB 30.83 30.11 29.20 26.75 35.23 33.32	-46.31 zation: Hori Level dBm -68.73 -70.12 -48.70 -39.14 -54.81 -45.48	-13.00 izontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00	-33.31 Over limit -55.73 -57.12 -35.70 -26.14 -41.81	Peak Remark Peak Peak Peak Peak Peak Peak
Frequency MHz 39.05 400.56 1363.16 2617.93	-74.92 Reading dBm -73.05 -74.53 -69.21 -65.79 -75.46	48.60 Antenna dB 28.60 26.20 37.09 38.93 44.32	Cable dB 6.55 8.32 12.62 14.47 11.56	Preamp dB 30.83 30.11 29.20 26.75 35.23 33.32	-46.31 zation: Hori Level dBm -68.73 -70.12 -48.70 -39.14 -54.81 -45.48	-13.00 izontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00	-33.31 Over limit -55.73 -57.12 -35.70 -26.14 -41.81	Peak Remark Peak Peak Peak Peak Peak Peak
MHz 39.05 400.56 363.16 2617.93	dBm -73.05 -74.53 -69.21 -65.79 -75.46	dB 28.60 26.20 37.09 38.93 44.32	dB 6.55 8.32 12.62 14.47 11.56	Preamp dB 30.83 30.11 29.20 26.75 35.23 33.32	Level dBm -68.73 -70.12 -48.70 -39.14 -54.81 -45.48	Limit dBm -13.00 -13.00 -13.00 -13.00	limit -55.73 -57.12 -35.70 -26.14 -41.81	Peak Peak Peak Peak Peak
MHz 39.05 400.56 363.16 2617.93	dBm -73.05 -74.53 -69.21 -65.79 -75.46	dB 28.60 26.20 37.09 38.93 44.32	dB 6.55 8.32 12.62 14.47 11.56	dB 30.83 30.11 29.20 26.75 35.23 33.32	dBm -68.73 -70.12 -48.70 -39.14 -54.81 -45.48	dBm -13.00 -13.00 -13.00 -13.00 -13.00	limit -55.73 -57.12 -35.70 -26.14 -41.81	Peak Peak Peak Peak Peak
MHz 39.05 400.56 363.16 2617.93	dBm -73.05 -74.53 -69.21 -65.79 -75.46	dB 28.60 26.20 37.09 38.93 44.32	dB 6.55 8.32 12.62 14.47 11.56	dB 30.83 30.11 29.20 26.75 35.23 33.32	dBm -68.73 -70.12 -48.70 -39.14 -54.81 -45.48	dBm -13.00 -13.00 -13.00 -13.00 -13.00	limit -55.73 -57.12 -35.70 -26.14 -41.81	Peak Peak Peak Peak Peak
MHz 39.05 400.56 363.16 2617.93	dBm -73.05 -74.53 -69.21 -65.79 -75.46	dB 28.60 26.20 37.09 38.93 44.32	dB 6.55 8.32 12.62 14.47 11.56	dB 30.83 30.11 29.20 26.75 35.23 33.32	dBm -68.73 -70.12 -48.70 -39.14 -54.81 -45.48	-13.00 -13.00 -13.00 -13.00 -13.00	limit -55.73 -57.12 -35.70 -26.14 -41.81	Peak Peak Peak Peak
39.05 400.56 1363.16 2617.93	-73.05 -74.53 -69.21 -65.79 -75.46	28.60 26.20 37.09 38.93 44.32	6.55 8.32 12.62 14.47 11.56	30.83 30.11 29.20 26.75 35.23 33.32	-68.73 -70.12 -48.70 -39.14 -54.81 -45.48	-13.00 -13.00 -13.00 -13.00 -13.00	-55.73 -57.12 -35.70 -26.14 -41.81	Peak Peak Peak Peak
400.56 1363.16 2617.93 1988.90	-74.53 -69.21 -65.79 -75.46	26.20 37.09 38.93 44.32	8.32 12.62 14.47 11.56	30.11 29.20 26.75 35.23 33.32	-70.12 -48.70 -39.14 -54.81 -45.48	-13.00 -13.00 -13.00 -13.00	-57.12 -35.70 -26.14 -41.81	Peak Peak Peak Peak
1363.16 2617.93 4988.90	-69.21 -65.79 -75.46	37.09 38.93 44.32	12.62 14.47 11.56	29.20 26.75 35.23 33.32	-48.70 -39.14 -54.81 -45.48	-13.00 -13.00 -13.00	-35.70 -26.14 -41.81	Peak Peak Peak
2617.93 1988.90	-65.79 -75.46	38.93 44.32	14.47 11.56	26.75 35.23 33.32	-39.14 -54.81 -45.48	-13.00 -13.00	-26.14 -41.81	Peak Peak
1988.90	-75.46	44.32	11.56	35.23 33.32	-54.81 -45.48	-13.00	-41.81	Peak
				33.32	-45.48			
7958.16	-74.66	48.08	14.42	(000,000,000,000,000,000,000,000,000,00	CHUI CHINE MINNOVORO	-13.00	-32.48	Dook
				Dollar.			a district the same of	reak
				Polariz	zation: Vert	tical		
Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
MHz	dBm	dB	dB	dB	dBm	dBm	limit	
40.59	-62.90	21.81	6.56	30.87	-65.40	-13.00	-52.40	Peak
725.71	-76.45	29.62	9.30	31.42	-68.95	-13.00	-55.95	Peak
444.89	-68.60	37.76	12.13	29.11	-47.82	-13.00	-34.82	Peak
	-69.02		14.45	26.64	-41.80	-13.00	-28.80	
2632.35		39.41						Peak
1494.24	-74.18	43.24	10.66	36.29	-56.57	-13.00	-43.57	Peak
641.47	-76.47	48.31	14.69	33.17	-46.64	-13.00	-33.64	Peak
				Polariz	zation: Hor	izontal		
Frequency	Reading	Antenna	Cable	Preamn	Level	Limit	Over	Remark
								Nemar N
								D-12
								Peak
400.56								Peak
1903.68	-63.62	37.99	12.00	29.43	-43.06	-13.00	-30.06	Peak
2629.46	-64.69	39.05	14.46	26.66	-37.84	-13.00	-24.84	Peak
1776.49								
7923.61		48.04	14.53					
				Polaria	zation: Vert	tical		
						Limit	Over	Remark
MHz	dBm	dB	dB	dB	dBm	dBm	limit	
	-62.22	21.77	6.55	30.83	-64.73	-13.00	-51.73	Peak
38.92								Peak
38,92								Peak
38.92 80.30								
38,92 80,30 1903,68		09.02						Peak
38.92 80.30 1903.68 2405.58	-69.52			35.45	-54.60	-13.00	-41.60	Peak Peak
19 26 4779	003.68 529.46 776.49 023.61 Frequency MHz 38.92 80.30	38.92 -73.58 400.56 -74.53 603.68 -63.62 629.46 -64.69 776.49 -74.69 623.61 -75.15 Frequency Reading dBm 38.92 -62.22 80.30 -71.77 603.68 -64.33	38.92 -73.58 28.60 400.56 -74.53 26.20 303.68 -63.62 37.99 329.46 -64.69 39.05 376.49 -74.69 43.63 323.61 -75.15 48.04 Frequency Reading Antenna MHz dBm dB 38.92 -62.22 21.77 80.30 -71.77 24.32 403.68 -64.33 37.45 405.58 -69.52 39.32	38.92 -73.58 28.60 6.55 400.56 -74.53 26.20 8.32 303.68 -63.62 37.99 12.00 329.46 -64.69 39.05 14.46 776.49 -74.69 43.63 11.43 223.61 -75.15 48.04 14.53 Frequency Reading Antenna Cable MHz dBm dB dB 38.92 -62.22 21.77 6.55 80.30 -71.77 24.32 6.86 103.68 -64.33 37.45 12.00 105.58 -69.52 39.32 13.23	38.92 -73.58 28.60 6.55 30.83 400.56 -74.53 26.20 8.32 30.11 303.68 -63.62 37.99 12.00 29.43 329.46 -64.69 39.05 14.46 26.66 76.49 -74.69 43.63 11.43 35.40 23.61 -75.15 48.04 14.53 33.33 Polari: Frequency Reading Antenna Cable Preamp MHz dBm dB dB dB 38.92 -62.22 21.77 6.55 30.83 80.30 -71.77 24.32 6.86 30.62 30.68 -64.33 37.45 12.00 29.43 305.58 -69.52 39.32 13.23 28.26	38.92 -73.58 28.60 6.55 30.83 -69.26 400.56 -74.53 26.20 8.32 30.11 -70.12 303.68 -63.62 37.99 12.00 29.43 -43.06 329.46 -64.69 39.05 14.46 26.66 -37.84 323.61 -75.15 48.04 14.53 33.33 -45.91 323.61 -75.15 48.04 14.53 33.33 -45.91 323.61 Polarization: Verification:	38.92 -73.58 28.60 6.55 30.83 -69.26 -13.00 400.56 -74.53 26.20 8.32 30.11 -70.12 -13.00 403.68 -63.62 37.99 12.00 29.43 -43.06 -13.00 403.68 -64.69 39.05 14.46 26.66 -37.84 -13.00 403.61 -75.15 48.04 14.53 33.33 -45.91 -13.00 403.61 -75.15 48.04 14.53 33.33 -45.91 -13.00 403.68 -62.22 21.77 6.55 30.83 -64.73 -13.00 403.68 -64.33 37.45 12.00 29.43 -44.31 -13.00 405.58 -69.52 39.32 13.23 28.26 -45.23 -13.00	38.92

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. The emission levels of not record in the report are very lower than the limit and not show in test report

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6. TEST SETUP PHOTOS OF THE EUT

Radiated emission:





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7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

External photos of the EUT







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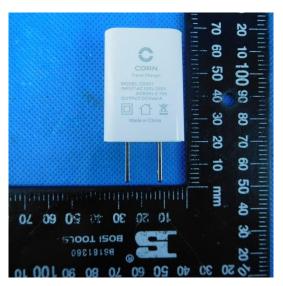






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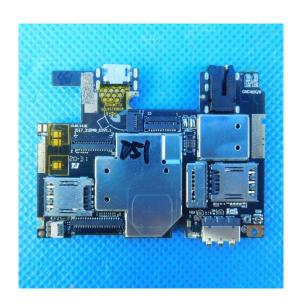
Internal photos of the EUT







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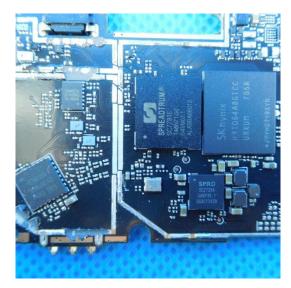


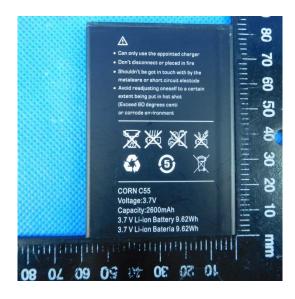




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8. APPENDIX REPORT