

FCC RADIO TEST REPORT FCC ID: 2ANMU-K7PRO

Product: Smart Phone

Trade Mark: OUKITEL

Model No.: K7 Pro

Family Model: N/A

Report No.: S19052804008004

Issue Date: 19 Jun. 2019

Prepared for

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
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ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

Prepared by

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1	TEST	RESULT	CERTIFICATION	
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Applicant's name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China
Manufacturer's Name	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China
Product description	
Product name:	Smart Phone
Model and/or type reference:	K7 Pro
Family Model:	N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
47 CFR Part 2, Part 22H, Part 24E, Part 27L	
ANSI/TIA-603-E-2016	Commissed
FCC KDB 971168 D01 Power Meas License Digital Systems v03	Complied
ANSI C63.26:2015	

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test	:	Apr. 18, 2019 ~ Jun. 18, 2019
Testing Engineer	: <u> </u>	Cheny Jiawen
		(Cheng Jiawen)
Technical Manager	:	Jason chen
•		(Jason Chen)
		Sam. Chen
Authorized Signatory	:	•
		(Sam Chen)

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2 SUMMARY OF TEST RESULTS

FCC Part22, Subpart H/ FCC Part24, Subpart E, FCC Part27, Subpart L, KDB 971168 D01 Power Meas License Digital Systems v03							
FCC Rule	Test Item	Verdict	Remark				
2.1046	Conducted Output Power	PASS					
24.232(d) KDB 971168 D01 Clause 5.7	Peak-to-Average Ratio	PASS					
2.1049 22.917(b) 24.238(b) KDB 971168 D01 Clause 4.2	Occupied Bandwidth	PASS					
2.1051 22.917(a) 24.238(a) KDB 971168 D01 Clause 6	Band Edge	PASS					
22.913(a)(2) KDB 971168 D01 Clause 5.6	Effective Radiated Power	PASS					
24.232(c) KDB 971168 D01 Clause 5.6	Equivalent Isotropic Radiated Power	PASS					
2.1053 22.917(a) 24.238(a) KDB 971168 D01 Clause 7	Field Strength of Spurious Radiation	PASS					
2.1055 22.355 24.235 KDB 971168 D01 Clause 9	Frequency Stability for Temperature & Voltage	PASS					
2.1051 22.917(a) 24.238(a) KDB 971168 D01 Clause 6	Conducted Emission	PASS					

Remark

- 1. "N/A" denotes test is not applicable in this Test Report.
- 2. All test items were verified and recorded according to the standards and without any deviation during the test.
- 3. No modifications are made to the EUT during all test items.

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3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)

The Certificate Registration Number is L5516.

IC-Registration The Certificate Registration Number is 9270A-1.

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for

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the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB

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4 GENERAL DESCRIPTION OF EUT					
	Product Feature and Specification				
Equipment	Smart Phone				
Trade Mark	OUKITEL				
FCC ID	2ANMU-K7PRO				
Model No.	K7 Pro				
Family Model	N/A				
Model Difference	N/A				
Operating Frequency	☐GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz; ☐UMTS FDD Band V: TX826.4MHz~846.6MHz /RX871.4MHz~891.6MHz; ☐PCS1900: TX1850.2MHz~1909.8MHz /RX1930.2MHz~1989.8MHz; ☐UMTS FDD Band II: TX1852.4MHz~1907.6MHz /RX1932.4MHz~1987.6MHz;				
Modulation					
GPRS Class					
SIM CARD	The Phone has dual SIM Card sockets, SIM 1 was worst case, only record SIM 1.				
Antenna Type	FPC Antenna				
Antenna Gain	0.3dBi				
	☑DC supply: DC 3.8V/10000mAh from Battery or DC 5V from USB Port.				
Power supply					
HW Version	YK677-MB-V0.1				
SW Version	N/A				
Note: Deced on the one	plication factures or appointed in a whibited in Hearle Manual, the ELIT is considered				

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. The High Voltage 4.2V and Low Voltage 3.4V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.

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Revision History						
Report No.	Version	Description	Issued Date			
S19052804008004	Rev.01	Initial issue of report	19 Jun. 2019			

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5 DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester(CMU 200) to ensure max power transmission and proper modulation. Three channels (The low channel, the middle channel and the high channel) were chosen for testing on all frequency band.

Note: GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, WCDMA/HSDPA/HSUPA band II, WCDMA/HSDPA/HSUPA band V modes have been tested during the test. the worst condition (GSM850, GSM1900, RMC 12.2k) be recorded in the test report if no other modes test data.

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 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:

- 1. 30 MHz to 10th harmonic for GSM850/UMTS FDD Band V.
- 2. 30 MHz to 10th harmonic for GSM1900/UMTS FDD Band II.

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	For Conducted Test Cases	For Radiated Test Cases					
GSM 850	GSM Link	GSM Link					
GSM 1900	GSM Link	GSM Link					
UMTS Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link					
UMTS Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link					

Test Frequency and Channels:

tour to factory and ottomicals								
Frequency	☐ GSM 850		⊠GSM 1900				⊠UMTS Band V	
Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH_H	251	848.8	810	1909.8	9538	1907.6	4233	846.6
CH_M	190	836.6	661	1880.0	9400	1880.0	4183	836.6
CH_L	128	824.2	512	1850.2	9262	1852.4	4132	826.4

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Report No.:S19052804008004 **SETUP OF EQUIPMENT UNDER TEST** 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM For Radiated Test Cases **EUT** For Conducted Output Power Measurement **Attenuator** Instrument For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission System Simulator Power Divider C2 Spectrum Analyzer Attenuator **EUT** C4 For Frequency Stability Measurement C6 C5 DC Power Attenuator **EUT** Instrument Source Thermal Chamber

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6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

icoio.					
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m
C-2	RF Cable	YES	NO	0.1m
C-3	RF Cable	YES	NO	0.1m
C-4	RF Cable	YES	NO	0.2m
C-5	RF Cable	YES	NO	0.2m
C-6	DC Cable	NO	NO	1.0m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2018.10.08	2019.10.07	1 year
2	Test Receiver	R&S	ESPI	101318	2019.05.13	2020.05.12	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2019.04.15	2020.04.14	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2019.05.13	2020.05.12	1 year
5	Horn Antenna	EM	EM-AH-1018 0	2011071402	2019.05.13	2020.05.12	1 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2019.04.15	2020.04.14	1 year
7	Amplifier	EM	EM-30180	060538	2018.08.05	2019.08.04	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2019.05.13	2020.05.12	1 year
9	Power Meter	R&S	NRVS	100696	2018.08.05	2019.08.04	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2019.05.13	2020.05.12	1 year
11	Test Cable	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
12	Test Cable	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
13	Test Cable	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
14	Test Receiver	R&S	ESCI	101160	2019.05.13	2020.05.12	1 year
15	LISN	R&S	ENV216	101313	2019.04.15	2020.04.14	1 year
16	LISN	EMCO	3816/2	00042990	2019.05.13	2020.05.12	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2019.05.13	2020.05.12	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2017.04.21	2020.04.20	3 year
19	Test Cable	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
20	Test Cable	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
21	Test Cable	N/A	C03	N/A	2018.04.19	2019.04.18	1 year
22	Attenuator	MCE	24-10-34	BN9258	2019.04.15	2020.04.14	1 year
23	Spectrum Analyzer	agilent	e4440a	us44300399	2019.05.13	2020.05.12	1 year
24	test receiver	R&S	ESCI	a0304218	2019.05.13	2020.05.12	1 year
25	Communication Tester	R&S	CMU200	A0304247	2018.10.08	2019.10.07	1 year
26	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2019.05.13	2020.05.12	1 year
27	DC Power Source	N/A	PS-6005D	2017040292 3	2017.06.06	2020.06.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& DC Power Source which is scheduled for calibration every 3 years.

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7 TEST REQUIREMENTS

7.1 FIELD STRENGTH OF SPURIOUS RADIATION

7.1.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.8 and ANSI/TIA-603-E-2016 Section 2.2.12

7.1.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

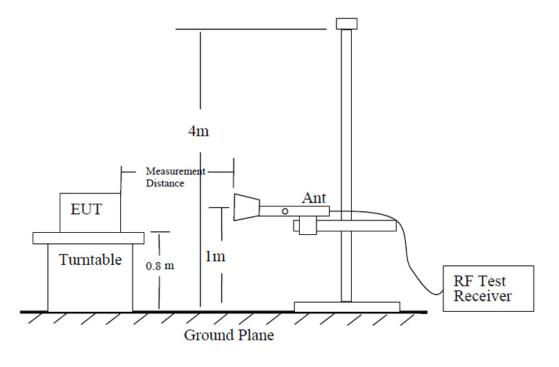
7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

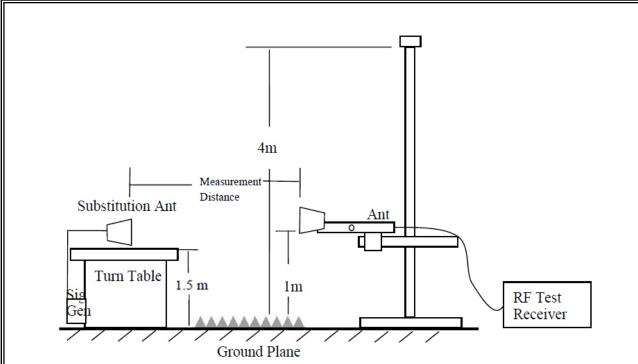
7.1.4 Test Configuration

According to the ANSI/TIA-603-E-2016 test method, The Receiver or Spectrum was scanned from 9 KHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz The resolution bandwidth is set as outlined in Part 24.238, Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II / WCDMA Band V / GSM 850 / GSM 1900.

TEST CONFIGURATION



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7.1.5 Test Procedure

- 1. EUT was placed on a 0.8 meter(For frequency above 1G, EUT should be placed on 1.5m) high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50 meter. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- The EUT is then put into continuously transmitting mode at its maximum power level during the test.Set
 Test Receiver or Spectrum RBW=1MHz,VBW=3MHz, And the maximum value of the receiver should be
 recorded as (P_r).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (SG Level) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (SG Level) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Cable Loss) ,the Substitution Antenna Gain should be recorded after test.
 - The measurement results are obtained as described below:
 - Power(EIRP)= SG Level- Cable Loss+ Antenna Gain
- 6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 7. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

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7.1.6 **Test Results**

EUT:	Smart Phone	Model No.:	K7 Pro
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900 UMTS band II/ UMTS band V	Test By:	Cheng Jiawen

■ Radiated Spurious Emission

GSM 850										
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	•			
Test Results for Channel 128/824.2 MHz										
1648.4	-48.62	2.80	27.50	-23.92	-13	-10.92	Vertical			
1648.4	-45.60	2.80	27.50	-20.90	-13	-7.90	Horizontal			
2472.6	-47.05	2.91	27.80	-22.16	-13	-9.16	Vertical			
2472.6	-49.43	2.91	27.80	-24.54	-13	-11.54	Horizontal			
3296.8	-46.29	4.02	29.87	-20.44	-13	-7.44	Vertical			
3296.8	-48.96	4.02	29.87	-23.11	-13	-10.11	Horizontal			
Test Results for Channel 190/836.6 MHz										
1673.2	-44.35	2.80	27.48	-19.67	-13	-6.67	Vertical			
1673.2	-45.02	2.80	27.48	-20.34	-13	-7.34	Horizontal			
2509.8	-50.85	2.91	27.70	-26.06	-13	-13.06	Vertical			
2509.8	-49.25	2.91	27.70	-24.46	-13	-11.46	Horizontal			
3346.4	-46.27	4.02	29.82	-20.47	-13	-7.47	Vertical			
3346.4	-50.13	4.02	29.82	-24.33	-13	-11.33	Horizontal			
		Test Re	sults for Cha	annel 251/84	8.8 MHz					
1697.6	-47.20	2.80	27.42	-22.58	-13	-9.58	Vertical			
1697.6	-47.67	2.80	27.42	-23.05	-13	-10.05	Horizontal			
2546.4	-50.54	2.91	27.68	-25.77	-13	-12.77	Vertical			
2546.4	-44.20	2.91	27.68	-19.43	-13	-6.43	Horizontal			
3395.2	-43.93	4.02	29.80	-18.15	-13	-5.15	Vertical			
3395.2	-47.67	4.02	29.80	-21.89	-13	-8.89	Horizontal			

Remark:

- We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain
- 3. Over Limit= Absolute Level (dBm)-Limit(dBm)

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	GPRS 850									
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)				
Test Results for Channel 128/824.2 MHz										
1648.4	-43.68	2.80	27.50	-18.98	-13	-5.98	Vertical			
1648.4	-42.25	2.80	27.50	-17.55	-13	-4.55	Horizontal			
2472.6	-51.24	2.91	27.80	-26.35	-13	-13.35	Vertical			
2472.6	-46.88	2.91	27.80	-21.99	-13	-8.99	Horizontal			
3296.8	-50.05	4.02	29.87	-24.20	-13	-11.20	Vertical			
3296.8	-44.26	4.02	29.87	-18.41	-13	-5.41	Horizontal			
	Test Results for Channel 190/836.6 MHz									
1673.2	-52.70	2.80	27.48	-28.02	-13	-15.02	Vertical			
1673.2	-45.26	2.80	27.48	-20.58	-13	-7.58	Horizontal			
2509.8	-52.45	2.91	27.70	-27.66	-13	-14.66	Vertical			
2509.8	-46.22	2.91	27.70	-21.43	-13	-8.43	Horizontal			
3346.4	-43.51	4.02	29.82	-17.71	-13	-4.71	Vertical			
3346.4	-51.70	4.02	29.82	-25.90	-13	-12.90	Horizontal			
		Test Re	sults for Cha	annel 251/84	8.8 MHz	_	_			
1697.6	-49.97	2.80	27.42	-25.35	-13	-12.35	Vertical			
1697.6	-46.73	2.80	27.42	-22.11	-13	-9.11	Horizontal			
2546.4	-42.78	2.91	27.68	-18.01	-13	-5.01	Vertical			
2546.4	-49.24	2.91	27.68	-24.47	-13	-11.47	Horizontal			
3395.2	-47.91	4.02	29.80	-22.13	-13	-9.13	Vertical			
3395.2	-50.71	4.02	29.80	-24.93	-13	-11.93	Horizontal			

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
- 3. Over Limit= Absolute Level (dBm)-Limit(dBm)

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			EGPI	RS 850					
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	-		
Test Results for Channel 128/824.2 MHz									
1648.4	-50.25	2.80	27.50	-25.55	-13	-12.55	Vertical		
1648.4	-47.01	2.80	27.50	-22.31	-13	-9.31	Horizontal		
2472.6	-54.14	2.91	27.80	-29.25	-13	-16.25	Vertical		
2472.6	-48.50	2.91	27.80	-23.61	-13	-10.61	Horizontal		
3296.8	-51.03	4.02	29.87	-25.18	-13	-12.18	Vertical		
3296.8	-44.53	4.02	29.87	-18.68	-13	-5.68	Horizontal		
Test Results for Channel 190/836.6 MHz									
1673.2	-49.75	2.80	27.48	-25.07	-13	-12.07	Vertical		
1673.2	-49.84	2.80	27.48	-25.16	-13	-12.16	Horizontal		
2509.8	-51.16	2.91	27.70	-26.37	-13	-13.37	Vertical		
2509.8	-48.82	2.91	27.70	-24.03	-13	-11.03	Horizontal		
3346.4	-49.15	4.02	29.82	-23.35	-13	-10.35	Vertical		
3346.4	-45.57	4.02	29.82	-19.77	-13	-6.77	Horizontal		
		Test Re	sults for Cha	annel 251/84	8.8 MHz				
1697.6	-46.54	2.80	27.42	-21.92	-13	-8.92	Vertical		
1697.6	-44.38	2.80	27.42	-19.76	-13	-6.76	Horizontal		
2546.4	-52.46	2.91	27.68	-27.69	-13	-14.69	Vertical		
2546.4	-47.31	2.91	27.68	-22.54	-13	-9.54	Horizontal		
3395.2	-46.57	4.02	29.80	-20.79	-13	-7.79	Vertical		
3395.2	-45.99	4.02	29.80	-20.21	-13	-7.21	Horizontal		

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
- 3. Over Limit= Absolute Level (dBm)-Limit(dBm)

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	GSM 1900									
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)				
		Test Re	sults for Cha	nnel 512/18	50.2MHz					
3700.4	-47.88	4.04	33.51	-18.41	-13	-5.41	Vertical			
3700.4	-54.42	4.04	33.51	-24.95	-13	-11.95	Horizontal			
5550.6	-56.51	5.24	35.84	-25.91	-13	-12.91	Vertical			
5550.6	-53.16	5.24	35.84	-22.56	-13	-9.56	Horizontal			
	Test Results for Channel 661/1880.0MHz									
3760	-52.48	4.04	33.56	-22.96	-13	-9.96	Vertical			
3760	-46.77	4.04	33.56	-17.25	-13	-4.25	Horizontal			
5640	-56.47	5.24	35.91	-25.80	-13	-12.80	Vertical			
5640	-54.65	5.24	35.91	-23.98	-13	-10.98	Horizontal			
		Test Re	sults for Cha	innel 810/19	09.8MHz					
3819.6	-53.66	4.04	34.00	-23.70	-13	-10.70	Vertical			
3819.6	-56.56	4.04	34.00	-26.60	-13	-13.60	Horizontal			
5729.4	-52.56	5.24	36.04	-21.76	-13	-8.76	Vertical			
5729.4	-54.83	5.24	36.04	-24.03	-13	-11.03	Horizontal			

- We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain
- 3. Over Limit= Absolute Level (dBm)-Limit(dBm)

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			GPR:	S 1900					
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
		Test Re	sults for Cha	nnel 512/18	50.2MHz				
3700.4	-55.65	4.04	33.51	-26.18	-13	-13.18	Vertical		
3700.4	-56.49	4.04	33.51	-27.02	-13	-14.02	Horizontal		
5550.6	-48.52	5.24	35.84	-17.92	-13	-4.92	Vertical		
5550.6	-53.50	5.24	35.84	-22.90	-13	-9.90	Horizontal		
	Test Results for Channel 661/1880.0MHz								
3760	-47.18	4.04	33.56	-17.66	-13	-4.66	Vertical		
3760	-50.34	4.04	33.56	-20.82	-13	-7.82	Horizontal		
5640	-56.48	5.24	35.91	-25.81	-13	-12.81	Vertical		
5640	-49.84	5.24	35.91	-19.17	-13	-6.17	Horizontal		
		Test Re	sults for Cha	innel 810/19	09.8MHz				
3819.6	-50.68	4.04	34.00	-20.72	-13	-7.72	Vertical		
3819.6	-48.76	4.04	34.00	-18.80	-13	-5.80	Horizontal		
5729.4	-48.56	5.24	36.04	-17.76	-13	-4.76	Vertical		
5729.4	-49.78	5.24	36.04	-18.98	-13	-5.98	Horizontal		

- We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain
 Over Limit= Absolute Level (dBm)-Limit(dBm)

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	EGPRS 1900									
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	-			
		Test Re	sults for Cha	nnel 512/18	50.2MHz					
3700.4	-50.37	4.04	33.51	-20.90	-13	-7.90	Vertical			
3700.4	-45.50	4.04	33.51	-16.03	-13	-3.03	Horizontal			
5550.6	-48.05	5.24	35.84	-17.45	-13	-4.45	Vertical			
5550.6	-47.37	5.24	35.84	-16.77	-13	-3.77	Horizontal			
Test Results for Channel 661/1880.0MHz										
3760	-47.54	4.04	33.56	-18.02	-13	-5.02	Vertical			
3760	-48.83	4.04	33.56	-19.31	-13	-6.31	Horizontal			
5640	-47.93	5.24	35.91	-17.26	-13	-4.26	Vertical			
5640	-47.18	5.24	35.91	-16.51	-13	-3.51	Horizontal			
		Test Re	sults for Cha	innel 810/19	09.8MHz					
3819.6	-52.73	4.04	34.00	-22.77	-13	-9.77	Vertical			
3819.6	-49.14	4.04	34.00	-19.18	-13	-6.18	Horizontal			
5729.4	-54.76	5.24	36.04	-23.96	-13	-10.96	Vertical			
5729.4	-49.58	5.24	36.04	-18.78	-13	-5.78	Horizontal			

- We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain
 Over Limit= Absolute Level (dBm)-Limit(dBm)

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	WCDMA Band II									
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)				
		Test Res	sults for Cha	nnel 9262/18	352.4MHz					
3704.8	-56.75	4.04	33.51	-27.28	-13	-14.28	Vertical			
3704.8	-48.99	4.04	33.51	-19.52	-13	-6.52	Horizontal			
5557.2	-53.23	5.24	35.84	-22.63	-13	-9.63	Vertical			
5557.2	-47.73	5.24	35.84	-17.13	-13	-4.13	Horizontal			
		Test Re	sults for Cha	annel 9400/1	880MHz					
3760	-48.78	4.04	33.56	-19.26	-13	-6.26	Vertical			
3760	-56.89	4.04	33.56	-27.37	-13	-14.37	Horizontal			
5640	-51.68	5.24	35.91	-21.01	-13	-8.01	Vertical			
5640	-51.83	5.24	35.91	-21.16	-13	-8.16	Horizontal			
		Test Res	sults for Cha	nnel 9538/19	07.6MHz					
3815.2	-47.65	4.04	34.00	-17.69	-13	-4.69	Vertical			
3815.2	-48.46	4.04	34.00	-18.50	-13	-5.50	Horizontal			
5722.8	-56.39	5.24	36.04	-25.59	-13	-12.59	Vertical			
5722.8	-56.33	5.24	36.04	-25.53	-13	-12.53	Horizontal			

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
- 3. Over Limit= Absolute Level (dBm)-Limit(dBm)

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	WCDMA Band V								
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
	Test Results for Channel 4233/846.6MHz								
1693.2	-42.66	2.80	27.50	-17.96	-13	-4.96	Vertical		
1693.2	-46.93	2.80	27.50	-22.23	-13	-9.23	Horizontal		
2539.8	-50.44	2.91	27.80	-25.55	-13	-12.55	Vertical		
2539.8	-47.06	2.91	27.80	-22.17	-13	-9.17	Horizontal		
3386.4	-42.52	4.02	29.87	-16.67	-13	-3.67	Vertical		
3386.4	-48.22	4.02	29.87	-22.37	-13	-9.37	Horizontal		
	Test Results for Channel 4182/836.4MHz								
1672.8	-44.34	2.80	27.48	-19.66	-13	-6.66	Vertical		
1672.8	-41.21	2.80	27.48	-16.53	-13	-3.53	Horizontal		
2509.2	-49.24	2.91	27.70	-24.45	-13	-11.45	Vertical		
2509.2	-41.97	2.91	27.70	-17.18	-13	-4.18	Horizontal		
3345.6	-47.00	4.02	29.82	-21.20	-13	-8.20	Vertical		
3345.6	-48.93	4.02	29.82	-23.13	-13	-10.13	Horizontal		
		Test Re	sults for Cha	nnel 4132/8	26.4MHz				
1652.8	-44.34	2.80	27.42	-19.72	-13	-6.72	Vertical		
1652.8	-45.26	2.80	27.42	-20.64	-13	-7.64	Horizontal		
2479.2	-49.40	2.91	27.68	-24.63	-13	-11.63	Vertical		
2479.2	-44.06	2.91	27.68	-19.29	-13	-6.29	Horizontal		
3305.6	-47.96	4.02	29.80	-22.18	-13	-9.18	Vertical		
3305.6	-49.42	4.02	29.80	-23.64	-13	-10.64	Horizontal		

Certificate #4298.01

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
- 3. Over Limit= Absolute Level (dBm)-Limit(dBm)

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Certificate #4298.01 Report No.:S19052804008004

7.2.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.2.1/ Section 5.2.2.2 and ANSI/TIA-603-E-2016 Section 2.2.17

7.2 EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

7.2.2 Conformance Limit

The substitution method, in ANSI/TIA-603-E-2016, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For E.R.P and E.I.R.P Measurements Please refer to the section 7.1.4 in this report.

7.2.5 Test Procedure

The measurements procedures specified in ANSI/TIA-603-E-2016 were applied.

In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (Pin) is applied to the input of the dipole, and the power received (Pr) at the chamber's probe antenna is recorded.

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP/EIRP = SGLevel -Pcl +Ga

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as SGLevel, typically dBW or dBm);

SGLevel = Signal generator output power or PSD, in dBm or dBW;

Ga = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

Pcl = signal attenuation in the connecting cable between the transmitter and antenna, in dB.²

The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.

From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.

The EUT is then put into continuously transmitting mode at its maximum power level.

Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step1 is added to this result.

This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (Pin).

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

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Substitution antenna and Receiving Antenna:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Character	Note
1	1 Bilog Antenna TESEQ		CBL6111D	31216	30MHz~2GHz	Receiving Antenna
2	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Receiving Antenna
3	Bilog Antenna TESEQ		CBL6111D	31216	30MHz~2GHz	Substitution antenna
4	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Substitution antenna

Use the following spectrum analyzer settings:

out the remarking observant analyzer outlings.					
	GSM/GPRS/EGPRS	UMTS band			
Span	500KHz	10MHz			
RBW	10KHz	300KHz			
VBW	30KHz	1MHz			
Detector	RMS	RMS			
Trace	Average	Average			
Average Type	Power	Power			
Sweep Count	100	100			

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7.2.6 Test Results

EUT:	Smart Phone	Model No.:	K7 Pro
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900 UMTS band II/ UMTS band V	Test By:	Cheng Jiawen

■ Effective Radiated Power

	Radiated Power (ERP) for GSM850						
Frequency	SG Polarization Level		Pcl	Ga Antenna Gain	Correction	ERP	ERP
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)
824.2	Н	12.56	2.11	23.84	2.15	32.14	1.636453
836.6	Н	13.07	2.13	23.15	2.15	31.94	1.563033
848.8	Н	13.03	2.13	23.06	2.15	31.81	1.516446
824.2	V	13.24	2.11	23.11	2.15	32.09	1.616416
836.6	V	13.33	2.13	23.07	2.15	32.12	1.629805
848.8	V	13.29	2.13	23.25	2.15	32.26	1.684419

	Radiated Power (ERP) for GPRS850							
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP	
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)	
824.2	Н	12.78	2.11	23.84	2.15	32.36	1.720336	
836.6	Н	14.04	2.13	23.15	2.15	32.91	1.953379	
848.8	Н	12.80	2.13	23.06	2.15	31.58	1.438488	
824.2	V	13.88	2.11	23.11	2.15	32.73	1.876349	
836.6	V	13.47	2.13	23.07	2.15	32.26	1.681458	
848.8	V	13.76	2.13	23.25	2.15	32.73	1.874311	

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	Radiated Power (ERP) for EGPRS850									
Frequency	Polarization	SG Pcl		Ga Antenna Gain	Correction	ERP	ERP			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
824.2	Н	7.27	2.11	23.84	2.15	26.85	0.484005			
836.6	Н	7.01	2.13	23.15	2.15	25.88	0.387250			
848.8	Н	7.29	2.13	23.06	2.15	26.07	0.405011			
824.2	V	7.50	2.11	23.11	2.15	26.35	0.431985			
836.6	V	7.62	2.13	23.07	2.15	26.41	0.437089			
848.8	V	7.18	2.13	23.25	2.15	26.15	0.411867			

	Radiated Power (ERP) for UMTS band V								
Frequency		SG	Pcl	Ga Antenna	Correction	ERP	ERP		
requeries	Polarization	Level	1 01	Gain	COTTCCTION	LIKI	LIXI		
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)		
826.4	Н	3.59	2.11	23.84	2.15	23.17	0.207408		
835	Н	4.32	2.13	23.15	2.15	23.19	0.208210		
846.6	Н	4.13	2.13	23.06	2.15	22.91	0.195282		
826.4	V	4.79	2.11	23.11	2.15	23.64	0.231417		
835	V	4.37	2.13	23.07	2.15	23.16	0.207197		
846.6	V	4.79	2.13	23.25	2.15	23.76	0.237816		

Note: SG Level= Signal generator output Pcl= cable loss Ga= Antenna Gain Peak EIRP(dBm)= SGLevel -Pcl +Ga ERP(dBm)=EIRP-2.15

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■ Effective Isotropic Radiated Power

	Radiated Power (E.I.R.P) for GSM1900						
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP	
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)	
1850.2	Н	6.50	3.76	28.24	30.98	1.253180	
1880	Н	5.71	3.91	28.22	30.02	1.005662	
1909.8	Н	5.67	3.93	28.20	29.94	0.986201	
1850.2	V	6.46	3.76	27.32	30.02	1.004121	
1880	V	6.43	3.91	27.33	29.85	0.966526	
1909.8	V	6.92	3.93	27.31	30.30	1.070695	

	Radiated Power (E.I.R.P) for GPRS1900						
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP	
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)	
1850.2	Н	5.82	3.76	28.24	30.30	1.072478	
1880	Н	5.63	3.91	28.22	29.94	0.985474	
1909.8	Н	6.16	3.93	28.20	30.43	1.103015	
1850.2	V	6.75	3.76	27.32	30.31	1.073943	
1880	V	6.33	3.91	27.33	29.75	0.944746	
1909.8	V	6.44	3.93	27.31	29.82	0.958997	

	Radiated Power (E.I.R.P) for EGPRS1900						
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP	
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)	
1850.2	Н	1.71	3.76	28.24	26.19	0.416141	
1880	Н	1.99	3.91	28.22	26.30	0.427028	
1909.8	Н	2.40	3.93	28.20	26.67	0.464534	
1850.2	V	2.84	3.76	27.32	26.40	0.436655	
1880	V	2.21	3.91	27.33	25.63	0.365467	
1909.8	V	2.31	3.93	27.31	25.69	0.371103	

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	Radiated Power (E.I.R.P) for UMTS band II								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1852.4	Н	-1.63	3.76	28.24	22.85	0.192915			
1880	Н	-0.93	3.91	28.22	23.38	0.217643			
1907.6	Н	-1.18	3.93	28.20	23.09	0.203485			
1852.4	V	-1.18	3.76	27.32	22.38	0.173175			
1880	V	-0.56	3.91	27.33	22.86	0.193195			
1907.6	V	-0.23	3.93	27.31	23.15	0.206482			

Note: SG Level= Signal generator output Pcl= cable loss Ga= Antenna Gain Peak EIRP(dBm)= SGLevel –Pcl+Ga.

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7.3 CONDUCTED OUTPUT POWER

7.3.1 Applicable Standard

According to FCC Part 2.1046 and FCC Part 22.913(a)(2) and FCC Part 24.232(c) and FCC KDB 971168 D01 v03 Section 5.2

7.3.2 Conformance Limit

Extend coverage on a secondary basis into cellular unserved areas, as those areas are defined in §22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts(38.5dBm).

Mobile and portable stations are limited to 2 watts (33dBm)EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications..

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. The frequency band is set as selected frequency, The RF output of the transmitter was connected to base station simulator.

Set EUT at maximum average power by base station simulator.

Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

Set VBW ≥ 3 × RBW.

Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)

Sweep time = auto.

Detector = RMS (power averaging).

Set sweep trigger to "free run".

Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the on and off periods of the transmitter.

Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 log (1/0.25) = 6 dB if the duty cycle is a constant 25%.

Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Measure and record the results in the test report.

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7.3.6 **Test Results**

EUT:	Smart Phone	Model No.:	K7 Pro
Temperature:	20 ℃	Relative Humidity:	48%
	GSM/GPRS/EGPR S850/ GSM/GPRS/EGPRS 1900 UMTS band II/ UMTS band V	Test By:	Cheng Jiawen

Output Power for GSM850

Mode	Frequency (MHz)	Maximum Burst-Average Output Powe
	824.2	32.50
GSM850	836.6	32.37
	848.8	32.47
GPRS850	824.2	32.45
(1 Slot)	836.6	32.41
	848.8	32.48
GPRS850	824.2	30.45
(2 Slot)	836.6	30.48
	848.8	30.39
GPRS850	824.2	29.35
(3 Slot)	836.6	29.48
	848.8	29.45
GPRS850	824.2	28.47
(4 Slot)	836.6	28.50
	848.8	28.34
EGPRS850	824.2	27.44
(1 Slot)	836.6	27.41
	848.8	27.48
EGPRS850	824.2	26.49
(2 Slot)	836.6	26.43
	848.8	26.38
EGPRS850	824.2	25.34
(3 Slot)	836.6	25.48
	848.8	25.48
EGPRS850	824.2	24.33
(4 Slot)	836.6	24.42
	848.8	24.49

N/A: Not Applicable

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Output Power for PCS1900		
Mode	Frequency (MHz)	Maximum Burst-Average Output Power
	1850.2	29.45
GSM1900	1880	29.47
	1909.8	29.31
GPRS1900	1850.2	29.43
(1 Slot)	1880	29.38
	1909.8	29.32
GPRS1900	1850.2	28.44
(2 Slot)	1880	28.48
	1909.8	28.46
GPRS1900	1850.2	27.50
(3 Slot)	1880	27.42
, ,	1909.8	27.35
GPRS1900	1850.2	26.47
(4 Slot)	1880	26.46
	1909.8	26.34
EGPRS1900	1850.2	25.42
(1 Slot)	1880	25.46
	1909.8	25.38
EGPRS1900	1850.2	24.39
(2 Slot)	1880	24.47
	1909.8	24.45
EGPRS1900	1850.2	23.47
(3 Slot)	1880	23.43
, ,	1909.8	23.41
EGPRS1900	1850.2	22.37
(4 Slot)	1880	22.48
. ,	1909.8	22.42

N/A: Not Applicable

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Mode	Frequency(MHz)	Maximum Burst-Average Output Powe
WCDMA 1900	1852.4	22.49
RMC	1880	22.48
	1907.6	22.47
WCDMA 1900	1852.4	22.04
AMR	1880	22.36
	1907.6	22.15
HSDPA	1852.4	21.44
Subtest 1	1880	21.48
	1907.6	21.49
HSDPA	1852.4	20.37
Subtest 2	1880	20.32
	1907.6	20.47
HSDPA	1852.4	20.39
Subtest 3	1880	20.38
	1907.6	20.29
HSDPA	1852.4	20.34
Subtest 4	1880	20.29
	1907.6	20.32
HSUPA	1852.4	20.45
Subtest 1	1880	20.34
	1907.6	20.35
HSUPA	1852.4	20.41
Subtest 2	1880	20.37
	1907.6	20.36
HSUPA	1852.4	20.33
Subtest 3	1880	20.41
	1907.6	20.42
HSUPA	1852.4	20.31
Subtest 4	1880	20.47
	1907.6	20.41
HSUPA	1852.4	21.45
Subtest 5	1880	21.48
	1907.6	21.50

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Mode	Frequency(MHz)	Maximum Burst-Average Output Pow
WCDMA 850	826.4	23.45
RMC	835	23.49
	846.6	23.48
WCDMA 850	826.4	23.19
AMR	835	23.10
	846.6	22.97
HSDPA	826.4	22.24
Subtest 1	835	22.35
	846.6	22.14
HSDPA	826.4	21.45
Subtest 2	835	21.44
	846.6	21.39
HSDPA	826.4	21.36
Subtest 3	835	21.33
	846.6	21.50
HSDPA	826.4	21.32
Subtest 4	835	21.40
	846.6	21.37
HSUPA	826.4	21.45
Subtest 1	835	21.37
	846.6	21.38
HSUPA	826.4	21.29
Subtest 2	835	21.32
	846.6	21.41
HSUPA	826.4	21.42
Subtest 3	835	21.30
	846.6	21.45
HSUPA	826.4	21.31
Subtest 4	835	21.48
	846.6	21.41
HSUPA	826.4	22.30
Subtest 5	835	22.42
	846.6	22.10

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7.4 FREQUENCY STABILITY

7.4.1 Applicable Standard

According to FCC Part 2.1055 and FCC Part 22.355 and FCC Part 24.235 and FCC KDB 971168 D01 Section 9.0

7.4.2 Conformance Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test.

EUT was placed at temperature chamber and connected to an external power supply.

Temperature and voltage condition shall be tested to confirm frequency stability.

For Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- 3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

For Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

7.4.6 Test Results

EUT:	Smart Phone	Model No.:	K7 Pro
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900 UMTS band II/ UMTS band V	Test By:	Cheng Jiawen
Results: PASS		•	

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Frequency Error Against Voltage for GSM 850 band			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4	-10	-0.0120	
3.85	-11	-0.0131	
4.2	-11	-0.0131	

Frequency Error Against Temperature for GSM 850 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-9	-0.0108
-20	-15	-0.0179
-10	-11	-0.0131
0	-19	-0.0227
10	-16	-0.0191
20	-17	-0.0203
30	-13	-0.0155
40	-10	-0.0120
50	-14	-0.0167

Frequency Error Against Voltage for GPRS850 band		
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)		
3.4	-9	-0.0108
3.85	-13	-0.0155
4.2	-11	-0.0131

Frequency Error Against Temperature for GPRS850 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-14	-0.0167
-20	-15	-0.0179
-10	-13	-0.0155
0	-12	-0.0143
10	-7	-0.0084
20	-5	-0.0060
30	-10	-0.0120
40	-8	-0.0096
50	-4	-0.0048

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Frequency Error Against Voltage for EGPRS850 band			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4	-5	-0.0060	
3.85	-9	-0.0108	
4.2	-10	-0.0120	

Frequency Error Against Temperature for EGPRS850 band			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-5	-0.0060	
-20	-11	-0.0131	
-10	-8	-0.0096	
0	-6	-0.0072	
10	-7	-0.0084	
20	-7	-0.0084	
30	-9	-0.0108	
40	-11	-0.0131	
50	-11	-0.0131	

Note:

- Normal Voltage = 3.85V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V
 The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Frequency Error Against Voltage for PCS 1900 band			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4	-17	-0.0090	
3.85	-14	-0.0074	
4.2	-20	-0.0106	

Frequency Error Against Temperature for PCS 1900 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-19	-0.0101
-20	-16	-0.0085
-10	-15	-0.0080
0	-21	-0.0112
10	-19	-0.0101
20	-23	-0.0122
30	-23	-0.0122
40	-16	-0.0085
50	-17	-0.0090

Frequency Error Against Voltage for GPRS1900 band			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	-13	-0.0069	
3.85	-19	-0.0101	
4.2	-22	-0.0117	

Frequency Error Against Temperature for GPRS1900 band			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-14	-0.0074	
-20	-17	-0.0090	
-10	-21	-0.0112	
0	-16	-0.0085	
10	-15	-0.0080	
20	-19	-0.0101	
30	-18	-0.0096	
40	-13	-0.0069	
50	-16	-0.0085	

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Frequency Error Against Voltage for EGPRS1900 band						
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)						
3.4	-11	-0.0059				
3.85	-0.0085					
4.2	4.2 -19 -0.0101					

Frequency Error Against Temperature for EGPRS1900 band						
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)				
-30	-14	-0.0074				
-20	-21	-0.0112				
-10	-17	-0.0090				
0	-22	-0.0117				
10	-18	-0.0096				
20	-17	-0.0090				
30	-15	-0.0080				
40	-14	-0.0074				
50	-16	-0.0085				

Note:

- 1.
- Normal Voltage = 3.85V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V
 The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Frequency Error Against Voltage for UMTS band II						
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)						
3.4	-19	-0.0101				
3.85	-13	-0.0069				
4.2	-11	-0.0059				

Frequency Error Against Temperature for UMTS band II						
Temperature (°C)	Frequency Error (Hz) Frequency Error (ppm					
-30	-16	-0.0085				
-20	-15	-0.0080				
-10	-18	-0.0096				
0	-19	-0.0101				
10	-21	-0.0112				
20	-20	-0.0106				
30	-17	-0.0090				
40	-19	-0.0101				
50	-21	-0.0112				

Frequency Error Against Voltage for UMTS band V							
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)							
3.4	-15	-0.0179					
3.85 -12 -0.0143							
4.2	4.2 -9 -0.0108						

Frequency Error Against Temperature for UMTS band V						
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)				
-30	-13	-0.0155				
-20	-17	-0.0203				
-10	-15	-0.0179				
0	-10	-0.0120				
10	-13	-0.0155				
20	-12	-0.0143				
30	-16	-0.0191				
40	-14	-0.0167				
50	-12	-0.0143				

Note:

- 1. Normal Voltage = 3.85V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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7.5 PEAK-TO-AVERAGE RATIO

7.5.1 Applicable Standard

According to FCC 22.913 and FCC 24.232(d) and FCC KDB 971168 D01 Section 5.7.1

7.5.2 Conformance Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set the number of counts to a value that stabilizes the measured CCDF curve.

Set the measurement interval to 1 ms.

Record the maximum PAPR level associated with a probability of 0.1%.

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
- 1) for continuous transmissions, set to 1 ms,
- 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.

7.5.6 Test Results

EUT:	Smart Phone	Model No.:	K7 Pro
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/ EGPRS 850/ GSM/GPRS/ EGPRS 1900 /UMTS band II/ UMTS band V	Test By:	Cheng Jiawen
Results: PASS			

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		Ca	Mular Dand			
	1	CE	ellular Band			
Modes		GSM850			GSM1900	
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	2.62	2.62	2.62	2.63	2.64	2.65

Cellular Band						
Modes		GPRS850)		GPRS1900	
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	2.62	2.62	2.62	2.63	2.64	2.66

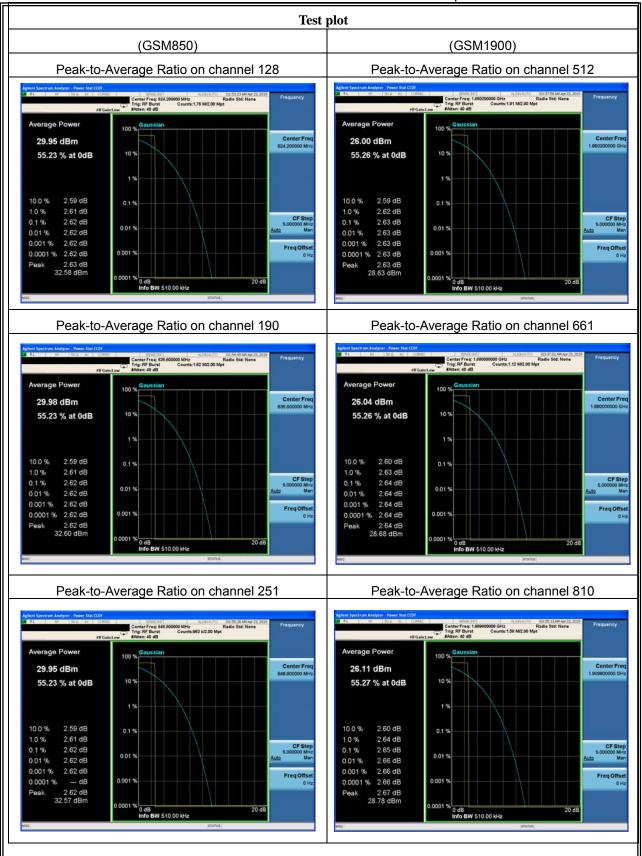
Cellular Band						
Modes		EGPRS85	0		EGPRS1900	
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	5.36	5.36	5.35	5.70	6.00	6.02

UMTS Band							
Modes					NCDMA Band RMC 12.2Kbp	- ' - '	
Channel	9262 (Low)	9400 (Mid)	9538 (High)	4132 (Low)	4175 (Mid)	4233 (High)	
Frequency(MHz)	1852.4	1880	1907.6	826.4	836.6	846.6	
Peak-to-Average Ratio (dB)	3.05	3.09	3.02	2.93	2.92	2.90	

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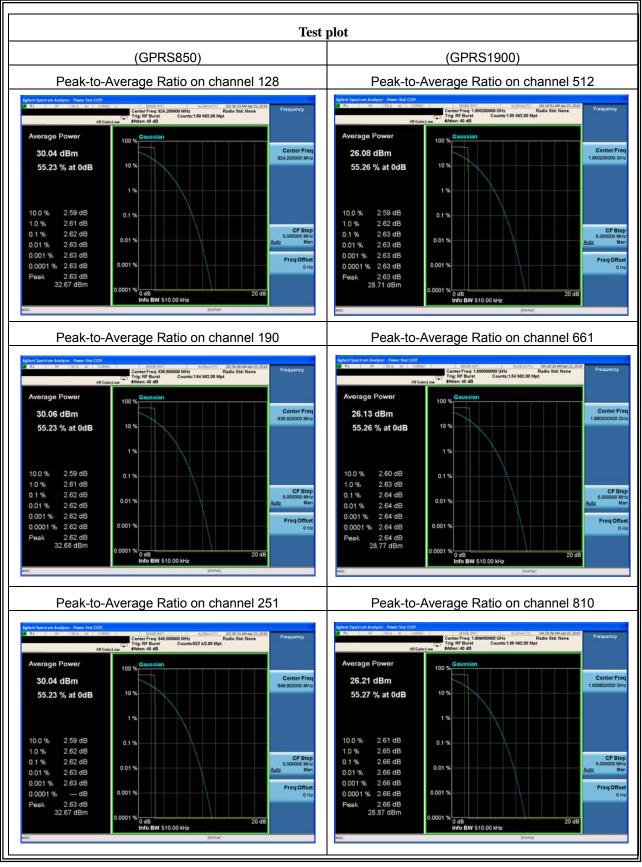


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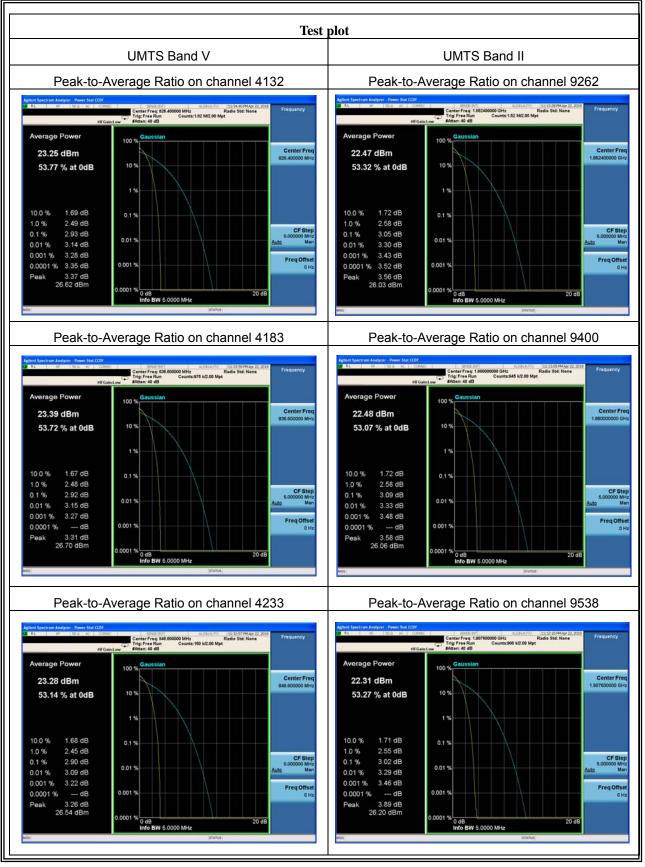
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7.6 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

7.6.1 Applicable Standard

According to FCC Part 2.1049 and FCC Part 22H and FCC Part 24E and FCC KDB 971168 D01 Section 4.0

7.6.2 Conformance Limit

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 4.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.

The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

Set the detection mode to peak, and the trace mode to max hold.

Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)

Determine the "-26 dB down amplitude" as equal to (Reference Value – X).

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

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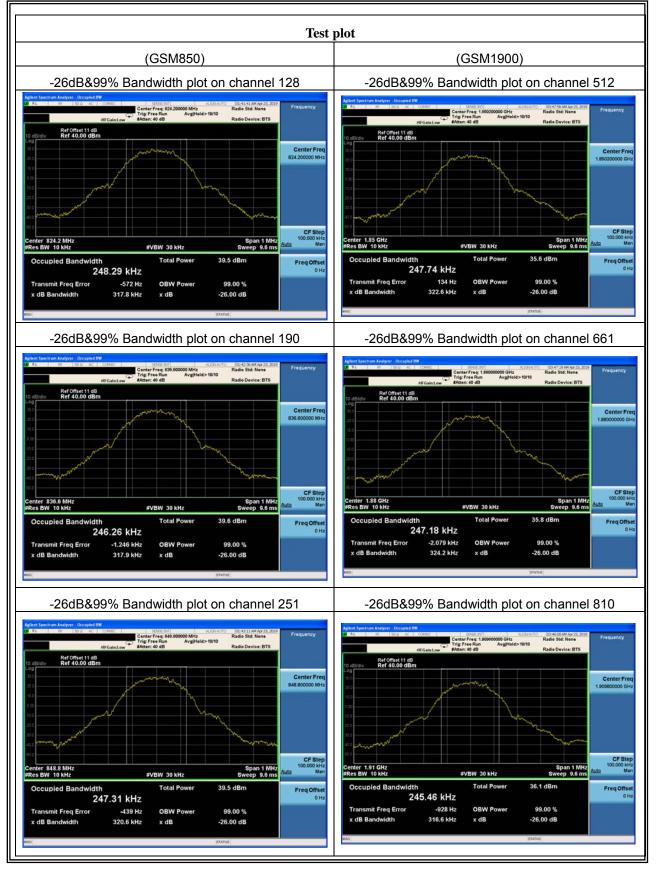
7.6.6 Test Results

EUT:	Smart Phone	Model No.:	K7 Pro
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900 /UMTS band II/ UMTS band V	Test By:	Cheng Jiawen
Results: PASS			

Operation Mode	Channel Number	Channel Frequency (MHz)	99% Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit (kHz)	Verdict
GSM 850	128	824.2	248.29	317.8	N/A	PASS
	190	836.6	246.26	317.9	N/A	PASS
	251	848.8	247.31	320.6	N/A	PASS
	512	1850.2	247.74	322.6	N/A	PASS
GSM 1900	661	1880.0	247.18	324.2	N/A	PASS
	810	1909.8	245.46	316.6	N/A	PASS
	128	824.2	246.00	318.4	N/A	PASS
GPRS 850	190	836.6	243.73	321.8	N/A	PASS
	251	848.8	247.96	321.6	N/A	PASS
	512	1850.2	245.48	322.9	N/A	PASS
GPRS 1900	661	1880.0	243.49	319.2	N/A	PASS
	810	1909.8	246.69	324.1	N/A	PASS
	128	824.2	252.91	317.3	N/A	PASS
EGPRS 850	190	836.6	251.27	318.7	N/A	PASS
	251	848.8	250.67	318.9	N/A	PASS
	512	1850.2	246.77	320.3	N/A	PASS
EGPRS 1900	661	1880.0	242.41	312.3	N/A	PASS
	810	1909.8	243.80	320.4	N/A	PASS
LIMTO Dand	4132	826.4	4178.1	4717	N/A	PASS
UMTS Band V	4183	836.6	4163.8	4716	N/A	PASS
	4233	846.6	4161.3	4698	N/A	PASS
LIMTC Dond	9262	1852.4	4172.0	4711	N/A	PASS
UMTS Band	9400	1880.0	4177.1	4704	N/A	PASS
l II	9538	1907.6	4162.4	4711	N/A	PASS

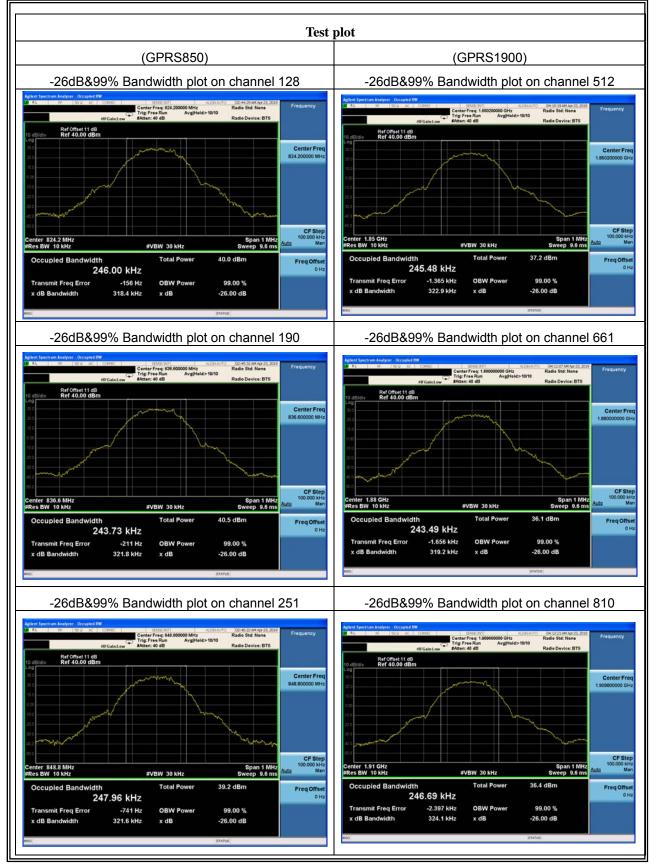
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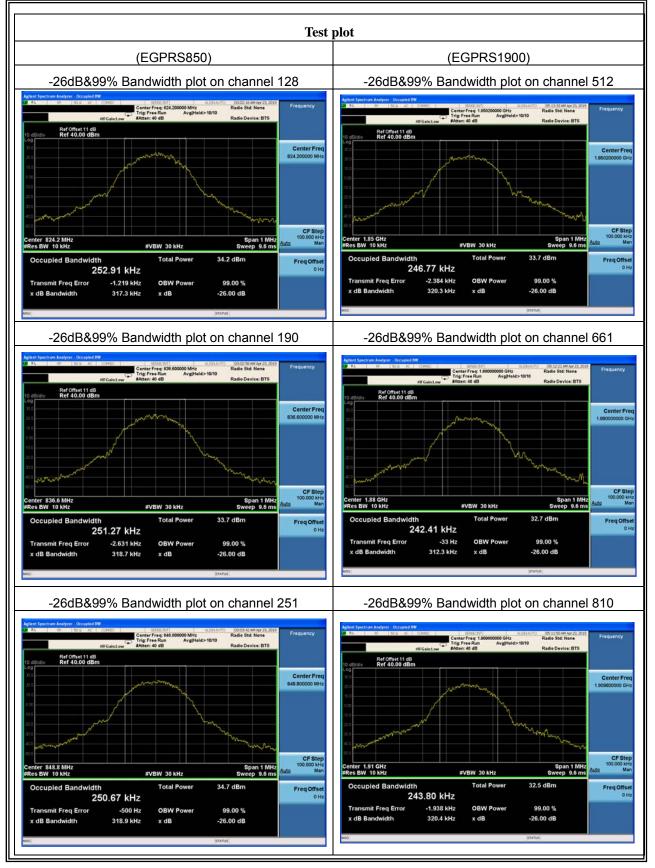
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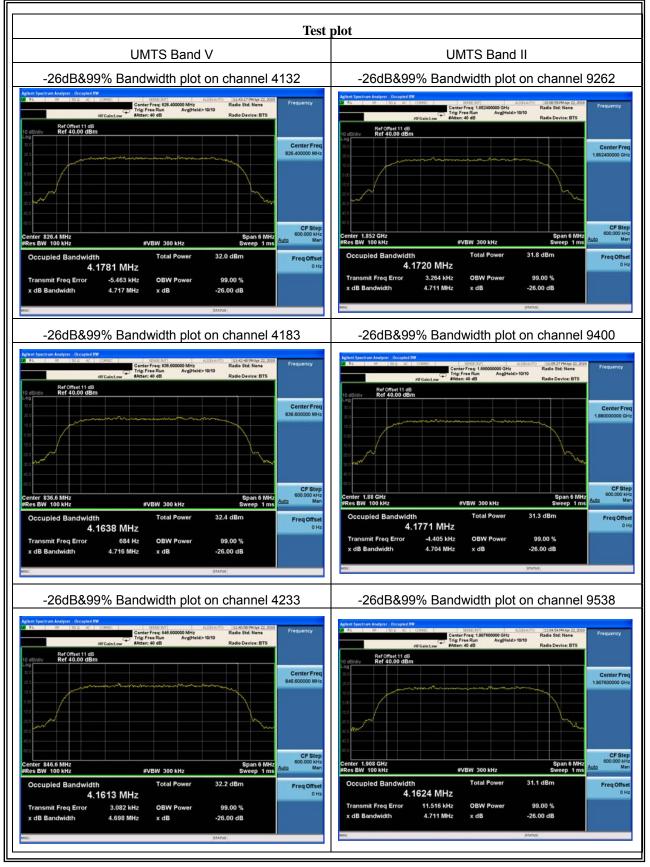
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7.7 CONDUCTED BAND EDGE

7.7.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and 24.238(a) and FCC KDB 971168 D01 Section6.0

7.7.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The band edges of low and high channels for the highest RF powers were measured.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

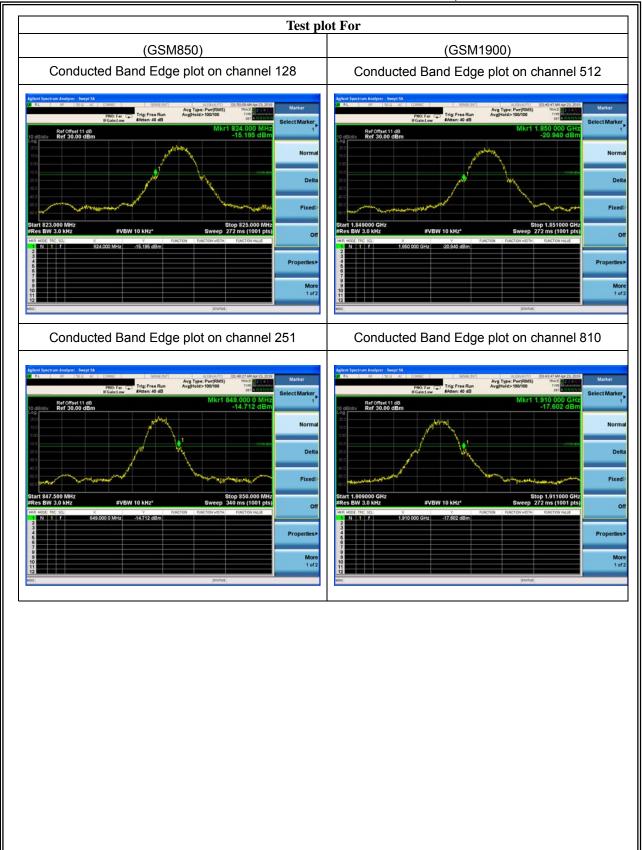
The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

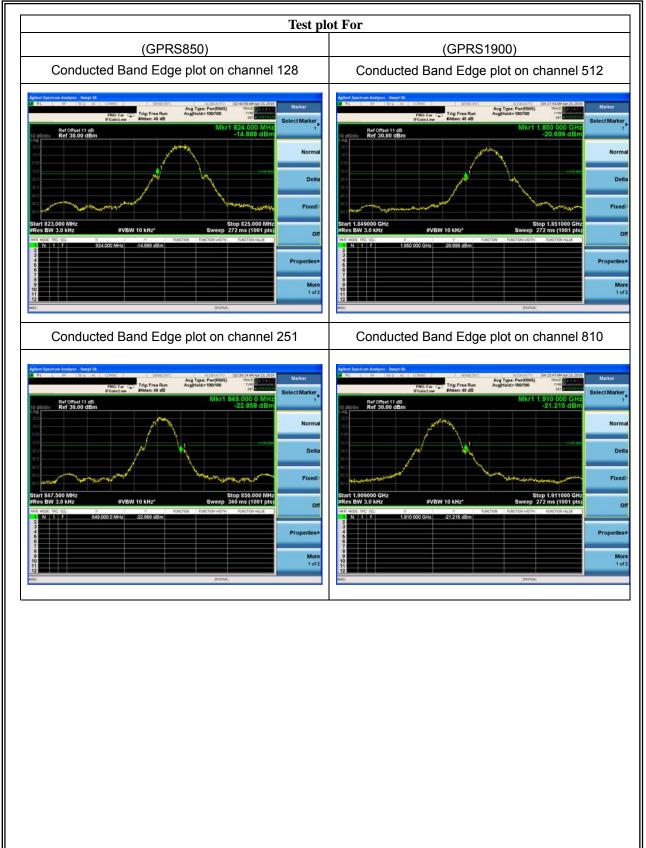
7.7.6 Test Results

EUT:	Smart Phone	Model No.:	K7 Pro		
Temperature:	20 ℃	Relative Humidity:	48%		
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900/ UMTS band II/ UMTS band V	Test By:	Cheng Jiawen		
Results: PASS					

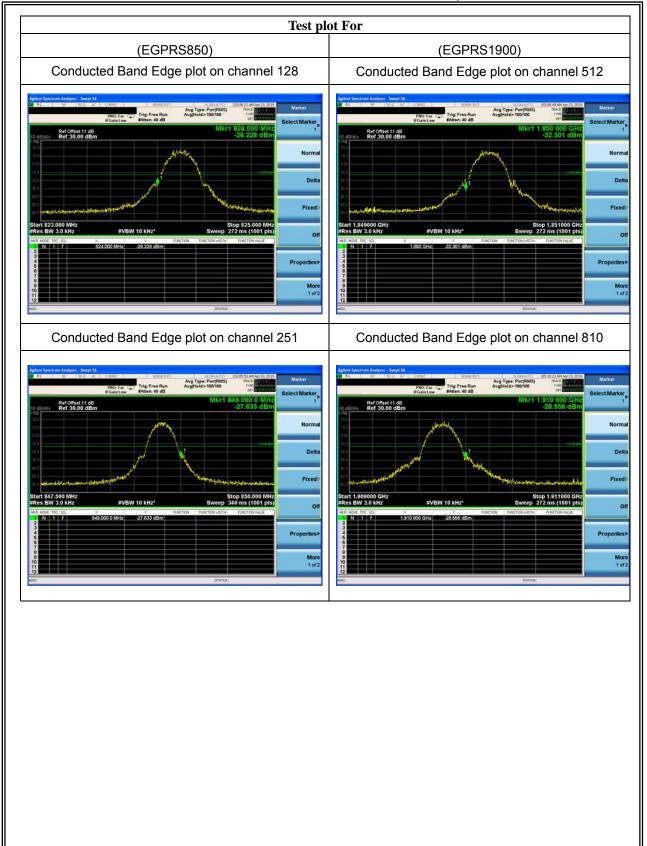
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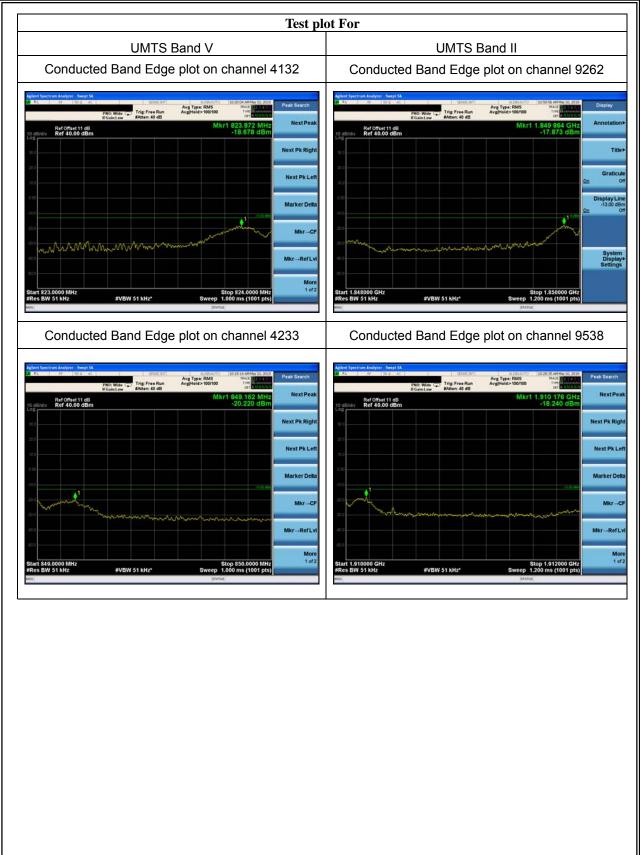


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7.8 CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL

7.8.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and Part 24.238(a) and FCC KDB 971168 D01 Section6.0

7.8.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The middle channel for the highest RF power within the transmitting frequency was measured.

The conducted spurious emission for the whole frequency range was taken.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

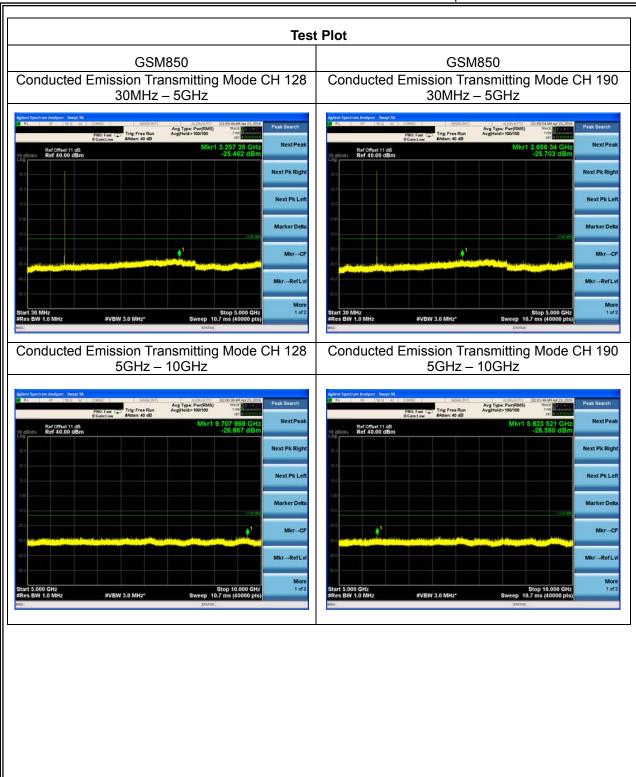
The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

7.8.6 Test Results

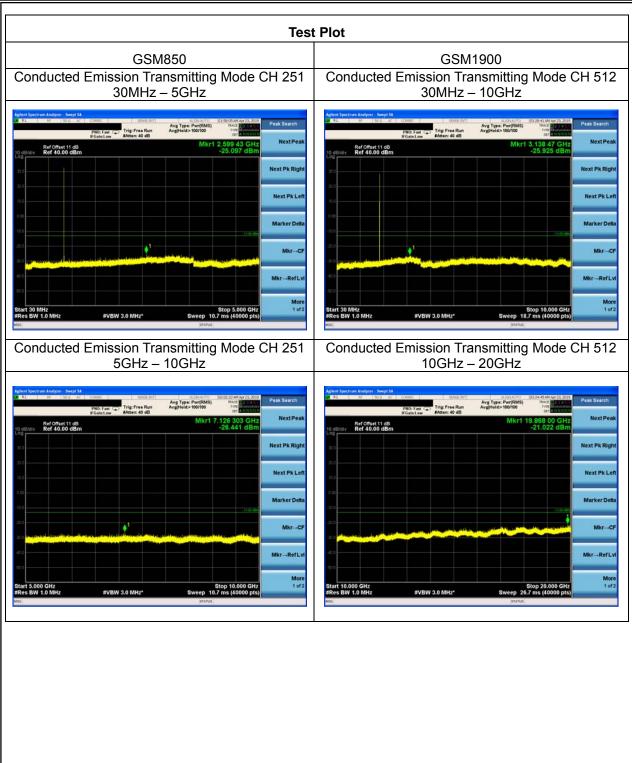
EUT:	Smart Phone	Model No.:	K7 Pro		
Temperature:	20 ℃	Relative Humidity:	48%		
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900/ UMTS band II/ UMTS band V	Test By:	Cheng Jiawen		
Results: PASS					

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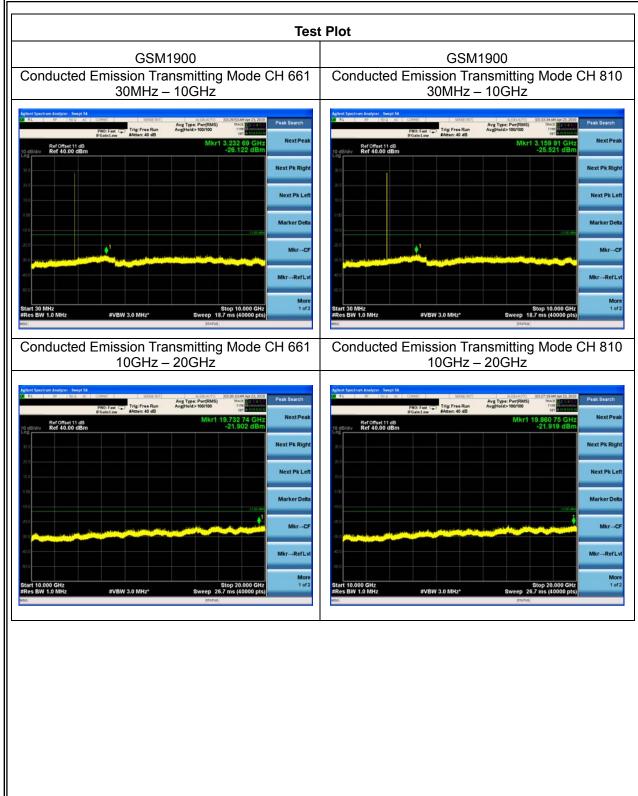
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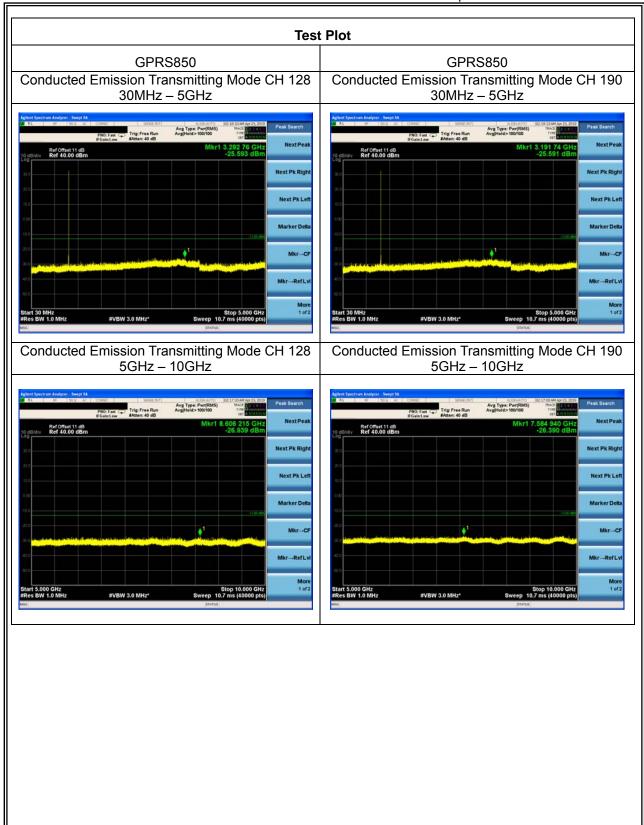


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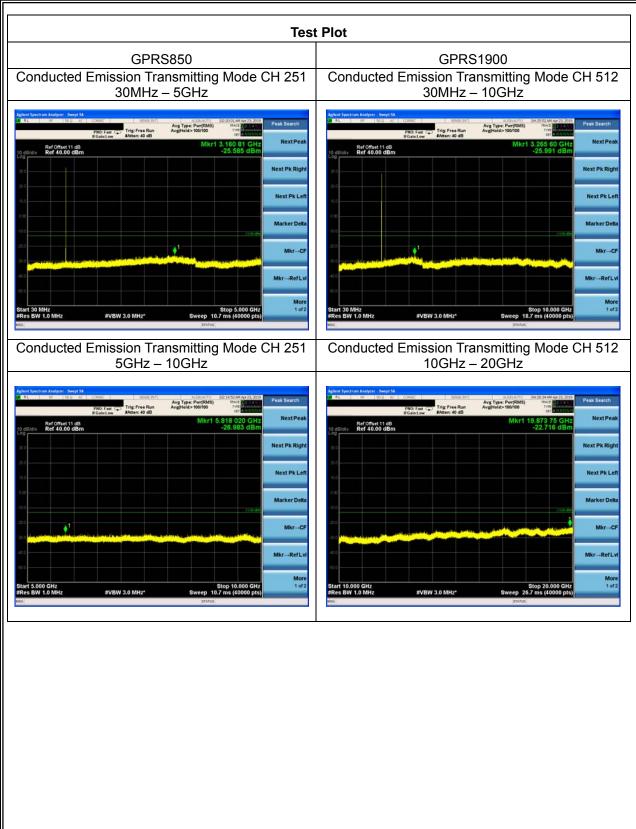


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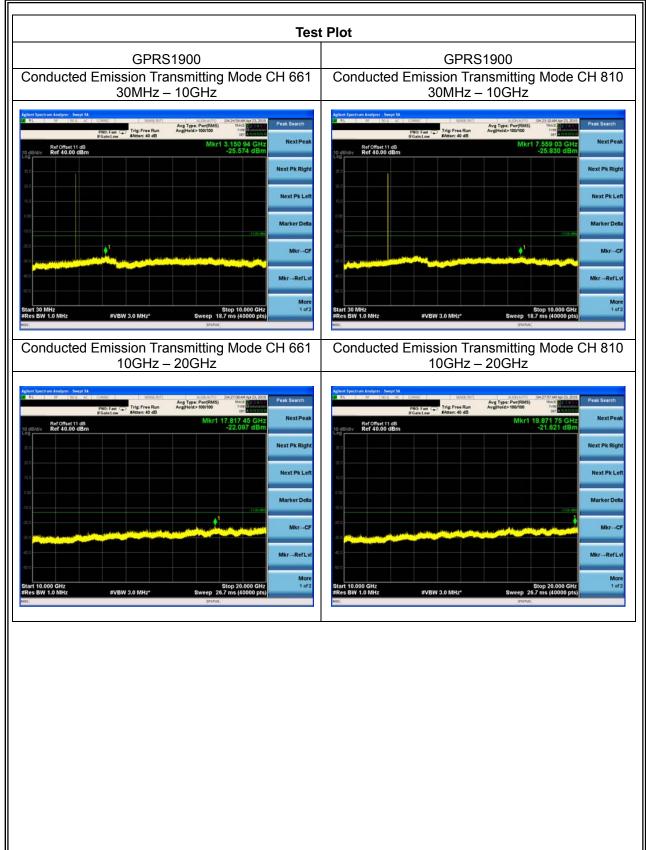
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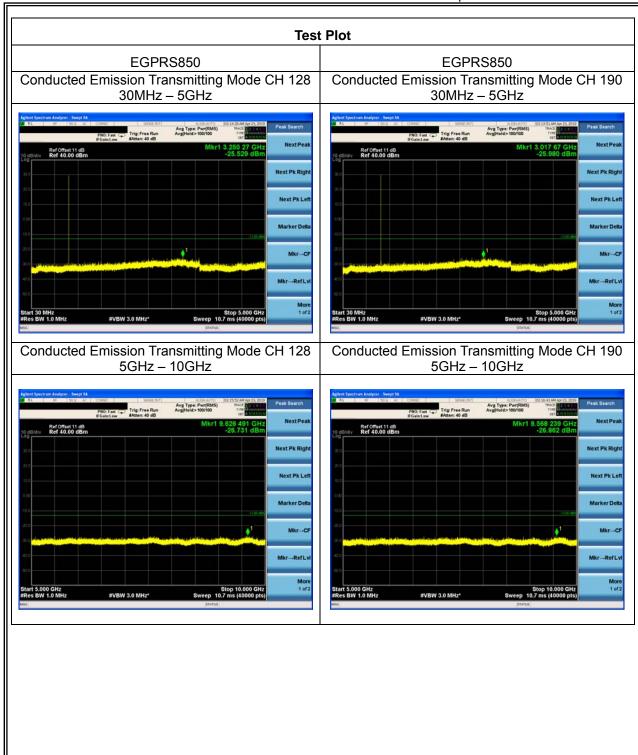


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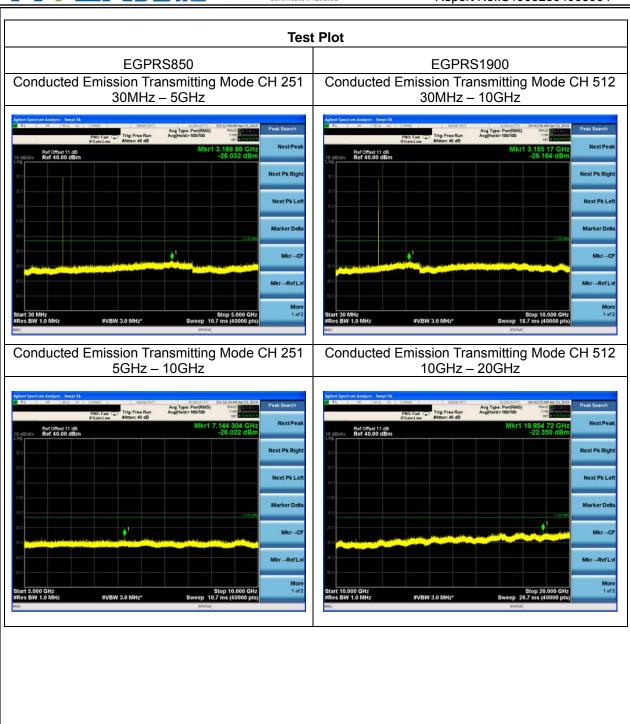


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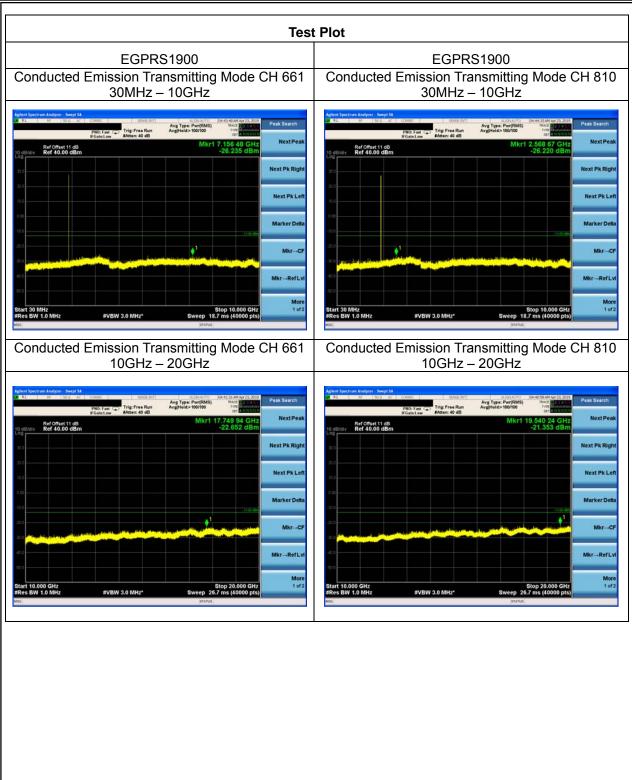
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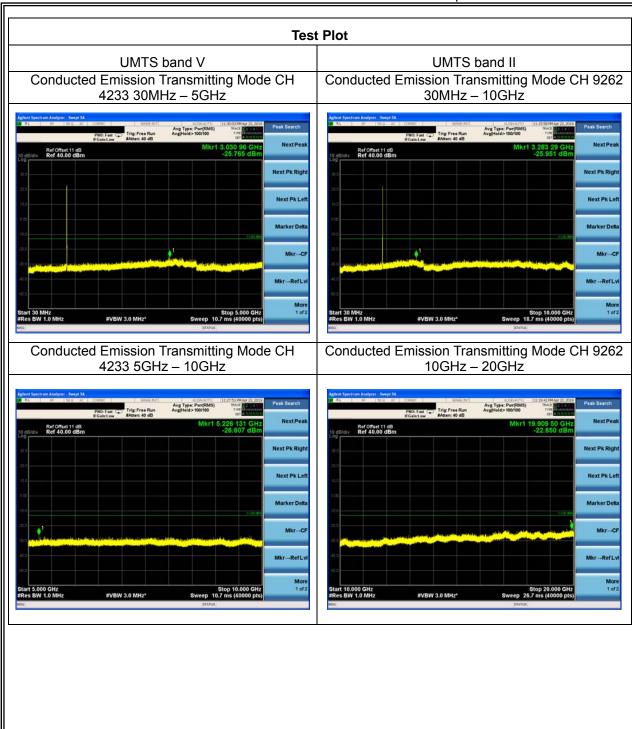
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Test Plot UMTS band V UMTS band V Conducted Emission Transmitting Mode CH 4183 Conducted Emission Transmitting Mode CH 4132 30MHz - 5GHz 30MHz - 5GHz Avg Type: Pwr(RMS) Avg(Hold>100/100 Avg Type: Pwr(RM Avg(Hold:> 100/100 Trig: Free Run Trig: Free Run Ref Offset 11 dB Ref 40.00 dBm Ref Offset 11 dB Ref 40.00 dBm Next Pk Righ Conducted Emission Transmitting Mode CH Conducted Emission Transmitting Mode CH 4183 4132 5GHz - 10GHz 5GHz - 10GHz PNO: Fast Trig: Free Run Ref Offset 11 dB Ref 40.00 dBm Ref Offset 11 dB Ref 40.00 dBm Next Pk Rig Next Pk Let Mkr-RefLy #VBW 3.0 MHz* #VBW 3.0 MHz*

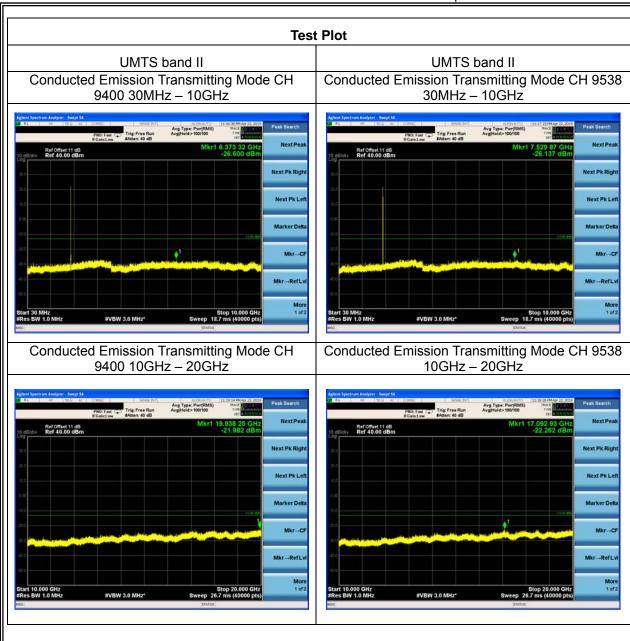
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END OF REPORT

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