FCC RADIO TEST REPORT FCC ID: 2ANMU-WP13

Product: Smart Phone

Trade Mark: OUKITEL

Model No.: WP13

Family Model: N/A

Report No.: S21060402406005

Issue Date: 22 Jul, 2021

Prepared for

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD

A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL
ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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TEST RESULT CERTIFICATION

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:	WP13	
Family Model:	N/A	

Measurement Procedure Used:

APPLICABLE STANDARDS	
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
47 CFR Part 2, Part 22H, Part 24E, Part 27	
ANSI/TIA-603-E-2016	Complied
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.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

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

Date of Test	:	04 Jun. 2021 ~21 Jul, 2021	
Testing Engineer	:	Buen lin	
0 0		(Allen Liu)	
		Alex	
Authorized Signatory	:		
		(Alex Li)	

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SUMMARY OF TEST RESULTS

FCC Part22H / FCC Part24E / FCC Part 27 & ANSI C63.26-2015								
FCC Rule	FCC Rule Test Item							
2.1046	Conducted Output Power	PASS						
Sub clause 5.2.3.4 of ANSI C63.26-2015	Peak-to-Average Ratio	PASS						
2.1049 22.917	Occupied Bandwidth	PASS						
2.1051 22.917 24.238 27.53	Band Edge	PASS						
22.913	Effective Radiated Power	PASS						
2.1053 22.917 24.238 27.53	Field Strength of Spurious Radiation	PASS						
2.1055 22.355 24.235 27.54	Frequency Stability for Temperature & Voltage	PASS						
2.1051 22.917 24.238 27.53	Conducted Emission	PASS						

Remark:

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

Version.1.2 Page 4 of 43 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 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-WP13
Model No.	WP13
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; □ UMTS-FDD Band IV:TX1710MHz~1755MHz /RX2110MHz~2155MHz
Modulation	
Power Class	4, tested with power level 5(GSM 850) 1, tested with power level 0(GSM 1900) 3, tested with power control "all 1"(WCDMA Band II/IV/V)
GPRS Class	
Antenna Type	FPC Antenna
Antenna Gain	GSM 850: 0.35 dBi, GSM 1900: 0.77 dBi, Band II: 0.77 dBi, Band IV: 0.62 dBi, Band V: 0.35 dBi
Power supply	Model: HJ-FC017K7-US Input: 100-240V~50/60Hz 0.6A Output: 5.0V2.0A OR 7.0V2.0A OR 9.0V2.0A OR 12.0V1.5A 18.0W
HW Version	V318MUB-V3.0
SW Version	OUKITEL_WP13_EEA_V01
	disertion, feetures, or enseification subjitted in Hearle Manual, the EUT 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 4.4V 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
S21060402406005	Rev.01	Initial issue of report	22 Jul, 2021

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Certificate #4298.01 Report No.: S21060402406005

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 GSM/GPRS/EGPRS 850,

GSM/GPRS/EGPRS 1900, HSDPA band II, HSUPA band II, HSDPA band V, HSDPA band IV, HSDPA band IV frequency band.

Note: GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, HSDPA band II, HSDPA band II, HSDPA band V, HSDPA band IV, HSDPA band IV, HSDPA band IV 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/ UMTS FDD Band $\,\mathrm{IV}_{\cdot}$
- 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 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				
UMTS Band IV	RMC 12.2Kbps Link	RMC 12.2Kbps Link				

Test Frequency and Channels:

103t i roqu	rest requeries and originals.							
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	189	836.4	661	1880.0	9400	1880.0	4182	836.4
CH_L	128	824.2	512	1850.2	9262	1852.4	4132	826.4

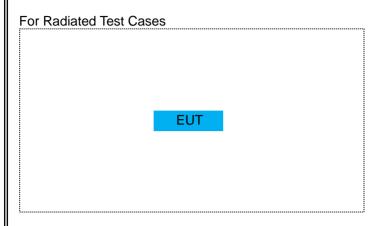
Frequency	☑ UMTS Band IV			
Band	Channel	Frequency (MHz)		
CH_H	1513	1752.6		
CH_M	1412	1732.4		
CH_L	1312	1712.4		

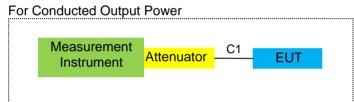
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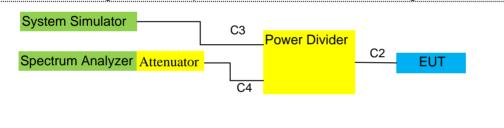
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

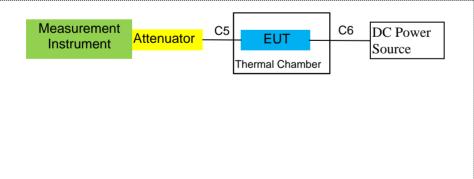




For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission



For Frequency Stability



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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.

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	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
2	Test Receiver	R&S	ESPI	101318	2021.04.27	2022.04.26	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
5	Horn Antenna	EM	EM-AH-1018 0	2011071402	2021.03.29	2022.03.28	3 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
7	Amplifier	EM	EM-30180	060538	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2021.04.27	2022.04.26	1 year
9	Power Meter	R&S	NRVS	100696	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2021.04.27	2022.04.26	1 year
11	Test Cable	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
12	Test Cable	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable	N/A	R-03	N/A	2019.08.06	2022.08.05	3 year
14	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
15	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
16	LISN	EMCO	3816/2	00042990	2021.04.27	2022.04.26	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2021.04.27	2022.04.26	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2020.05.11	2023.05.10	3 year
19	Test Cable	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
20	Test Cable	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
21	Test Cable	N/A	C03	N/A	2020.05.11	2023.05.10	3 year
22	Spectrum Analyzer	agilent	e4440a	us44300399	2021.04.27	2022.04.26	1 year
23	test receiver	R&S	ESCI	a0304218	2021.04.27	2022.04.26	1 year
24	Communication Tester	R&S	CMU200	A0304247	2021.04.27	2022.04.26	1 year
25	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2021.04.27	2022.04.26	1 year
26	DC Power Source	N/A	PS-6005D	2017040292	2020.05.11	2023.05.10	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.

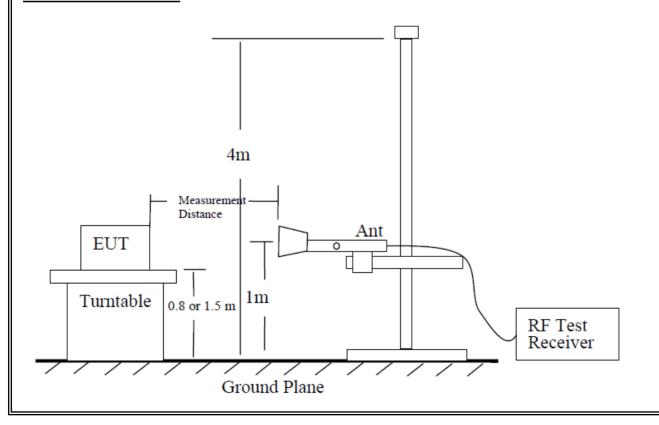
7.1.3 Measuring Instruments

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

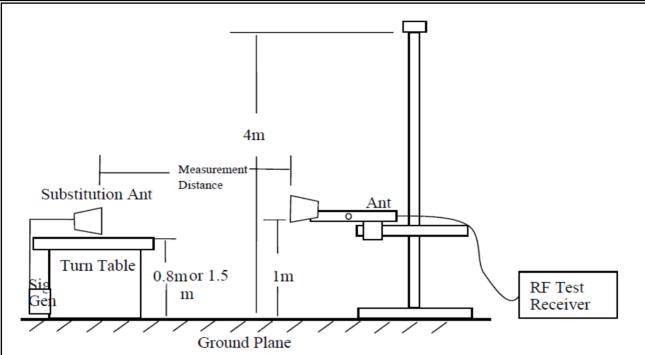


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7.1.5 Test Procedure

- 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.
- 3. 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.:	WP13
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Allen Liu

Radiated Spurious Emission

			GSA	<i>1</i> 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	-49.03	2.80	27.50	-24.33	-13	-11.33	Vertical				
1648.4	-51.95	2.80	27.50	-27.25	-13	-14.25	Horizontal				
2472.6	-48.92	2.91	27.80	-24.03	-13	-11.03	Vertical				
2472.6	-46.18	2.91	27.80	-21.29	-13	-8.29	Horizontal				
3296.8	-47.29	4.02	29.87	-21.44	-13	-8.44	Vertical				
3296.8	-45.82	4.02	29.87	-19.97	-13	-6.97	Horizontal				
130.9	-48.49	1.71	17.48	-32.72	-13	-19.72	Vertical				
253.3	-44.52	1.80	15.13	-31.19	-13	-18.19	Horizontal				
Test Results for Channel 189/836.4 MHz											
1672.8	-44.24	2.80	27.48	-19.56	-13	-6.56	Vertical				
1672.8	-43.62	2.80	27.48	-18.94	-13	-5.94	Horizontal				
2509.2	-47	2.91	27.70	-22.21	-13	-9.21	Vertical				
2509.2	-46.05	2.91	27.70	-21.26	-13	-8.26	Horizontal				
3345.6	-44.28	4.02	29.82	-18.48	-13	-5.48	Vertical				
3345.6	-43.55	4.02	29.82	-17.75	-13	-4.75	Horizontal				
194.5	-44.78	1.68	16.70	-29.76	-13	-16.76	Vertical				
162.3	-42.87	1.61	15.78	-28.70	-13	-15.70	Horizontal				
		Test Re	sults for Cha	annel 251/84	8.8 MHz						
1697.6	-48.04	2.80	27.42	-23.42	-13	-10.42	Vertical				
1697.6	-49.4	2.80	27.42	-24.78	-13	-11.78	Horizontal				
2546.4	-51.65	2.91	27.68	-26.88	-13	-13.88	Vertical				
2546.4	-47.08	2.91	27.68	-22.31	-13	-9.31	Horizontal				
3395.2	-52.4	4.02	29.80	-26.62	-13	-13.62	Vertical				
3395.2	-48.47	4.02	29.80	-22.69	-13	-9.69	Horizontal				
108.5	-40.48	1.37	16.17	-25.68	-13	-12.68	Vertical				
141.9	-47.16	1.78	16.11	-32.83	-13	-19.83	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 850						
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)				
		Test Re	sults for Cha	annel 128/82	4.2 MHz					
1648.4	-49.05	2.80	27.50	-24.35	-13	-11.35	Vertical			
1648.4	-50.24	2.80	27.50	-25.54	-13	-12.54	Horizontal			
2472.6	-48.13	2.91	27.80	-23.24	-13	-10.24	Vertical			
2472.6	-49.85	2.91	27.80	-24.96	-13	-11.96	Horizontal			
3296.8	-46.81	4.02	29.87	-20.96	-13	-7.96	Vertical			
3296.8	-47.9	4.02	29.87	-22.05	-13	-9.05	Horizontal			
160.4	-40.68	1.41	17.68	-24.41	-13	-11.41	Vertical			
136.3	-46.59	1.37	16.65	-31.31	-13	-18.31	Horizontal			
	Test Results for Channel 189/836.4 MHz									
1672.8	-50.12	2.80	27.48	-25.44	-13	-12.44	Vertical			
1672.8	-45.37	2.80	27.48	-20.69	-13	-7.69	Horizontal			
2509.2	-47.66	2.91	27.70	-22.87	-13	-9.87	Vertical			
2509.2	-50.67	2.91	27.70	-25.88	-13	-12.88	Horizontal			
3345.6	-46.95	4.02	29.82	-21.15	-13	-8.15	Vertical			
3345.6	-52.39	4.02	29.82	-26.59	-13	-13.59	Horizontal			
158.0	-41.08	1.73	16.27	-26.54	-13	-13.54	Vertical			
214.6	-40.99	1.42	15.57	-26.84	-13	-13.84	Horizontal			
		Test Re	sults for Cha	annel 251/84	8.8 MHz					
1697.6	-47.75	2.80	27.42	-23.13	-13	-10.13	Vertical			
1697.6	-41.38	2.80	27.42	-16.76	-13	-3.76	Horizontal			
2546.4	-48.32	2.91	27.68	-23.55	-13	-10.55	Vertical			
2546.4	-40.56	2.91	27.68	-15.79	-13	-2.79	Horizontal			
3395.2	-46.18	4.02	29.80	-20.40	-13	-7.40	Vertical			
3395.2	-49.35	4.02	29.80	-23.57	-13	-10.57	Horizontal			
217.7	-39.55	1.47	16.96	-24.06	-13	-11.06	Vertical			
225.7	-41.65	1.33	17.68	-25.30	-13	-12.30	Horizontal			

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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			EGPF	RS 850					
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
		Test Re	sults for Cha	annel 128/82	4.2 MHz				
1648.4	-47.98	2.80	27.50	-23.28	-13	-10.28	Vertical		
1648.4	-53	2.80	27.50	-28.30	-13	-15.30	Horizontal		
2472.6	-49.4	2.91	27.80	-24.51	-13	-11.51	Vertical		
2472.6	-48.72	2.91	27.80	-23.83	-13	-10.83	Horizontal		
3296.8	-47.57	4.02	29.87	-21.72	-13	-8.72	Vertical		
3296.8	-49.69	4.02	29.87	-23.84	-13	-10.84	Horizontal		
256.0	-37.86	1.55	15.03	-24.38	-13	-11.38	Vertical		
100.9	-43.97	1.35	16.09	-29.23	-13	-16.23	Horizontal		
	Test Results for Channel 189/836.4 MHz								
1672.8	-49.52	2.80	27.48	-24.84	-13	-11.84	Vertical		
1672.8	-47.45	2.80	27.48	-22.77	-13	-9.77	Horizontal		
2509.2	-52.25	2.91	27.70	-27.46	-13	-14.46	Vertical		
2509.2	-45.09	2.91	27.70	-20.30	-13	-7.30	Horizontal		
3345.6	-51.63	4.02	29.82	-25.83	-13	-12.83	Vertical		
3345.6	-42.03	4.02	29.82	-16.23	-13	-3.23	Horizontal		
150.6	-40.91	1.56	15.11	-27.36	-13	-14.36	Vertical		
266.4	-41.28	1.48	17.41	-25.35	-13	-12.35	Horizontal		
		Test Re	sults for Cha	annel 251/84	8.8 MHz				
1697.6	-43.44	2.80	27.42	-18.82	-13	-5.82	Vertical		
1697.6	-49.02	2.80	27.42	-24.40	-13	-11.40	Horizontal		
2546.4	-48.96	2.91	27.68	-24.19	-13	-11.19	Vertical		
2546.4	-48.29	2.91	27.68	-23.52	-13	-10.52	Horizontal		
3395.2	-55.03	4.02	29.80	-29.25	-13	-16.25	Vertical		
3395.2	-46.54	4.02	29.80	-20.76	-13	-7.76	Horizontal		
212.0	-45.99	1.69	15.05	-32.63	-13	-19.63	Vertical		
112.7	-43.24	1.36	17.72	-26.88	-13	-13.88	Horizontal		

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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			WCDMA	A 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	-44.75	2.80	27.50	-20.05	-13	-7.05	Vertical			
1693.2	-45.06	2.80	27.50	-20.36	-13	-7.36	Horizontal			
2539.8	-46.49	2.91	27.80	-21.60	-13	-8.60	Vertical			
2539.8	-45.31	2.91	27.80	-20.42	-13	-7.42	Horizontal			
3386.4	-42.89	4.02	29.87	-17.04	-13	-4.04	Vertical			
3386.4	-43.6	4.02	29.87	-17.75	-13	-4.75	Horizontal			
98.9	-42.07	1.49	15.43	-28.13	-13	-15.13	Vertical			
273.8	-40.76	1.63	17.43	-24.96	-13	-11.96	Horizontal			
	Test Results for Channel 4182/836.4MHz									
1672.8	-45.76	2.80	27.48	-21.08	-13	-8.08	Vertical			
1672.8	-46.52	2.80	27.48	-21.84	-13	-8.84	Horizontal			
2509.2	-46.34	2.91	27.70	-21.55	-13	-8.55	Vertical			
2509.2	-48.07	2.91	27.70	-23.28	-13	-10.28	Horizontal			
3345.6	-49.3	4.02	29.82	-23.50	-13	-10.50	Vertical			
3345.6	-50.38	4.02	29.82	-24.58	-13	-11.58	Horizontal			
190.3	-42.26	1.45	15.03	-28.68	-13	-15.68	Vertical			
103.1	-45.55	1.62	15.31	-31.86	-13	-18.86	Horizontal			
		Test Re	sults for Cha	nnel 4132/8	26.4MHz					
1652.8	-44.59	2.80	27.42	-19.97	-13	-6.97	Vertical			
1652.8	-49.41	2.80	27.42	-24.79	-13	-11.79	Horizontal			
2479.2	-44.57	2.91	27.68	-19.80	-13	-6.80	Vertical			
2479.2	-50.44	2.91	27.68	-25.67	-13	-12.67	Horizontal			
3305.6	-43.8	4.02	29.80	-18.02	-13	-5.02	Vertical			
3305.6	-52.08	4.02	29.80	-26.30	-13	-13.30	Horizontal			
88.8	-48.27	1.68	17.86	-32.09	-13	-19.09	Vertical			
235.5	-38.52	1.74	16.13	-24.13	-13	-11.13	Horizontal			

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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			GSM	1900							
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity				
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	_				
	Test Results for Channel 512/1850.2MHz										
3700.4	-52.37	4.04	33.51	-22.90	-13	-9.90	Vertical				
3700.4	-55.39	4.04	33.51	-25.92	-13	-12.92	Horizontal				
5550.6	-52.77	5.24	35.84	-22.17	-13	-9.17	Vertical				
5550.6	-54.58	5.24	35.84	-23.98	-13	-10.98	Horizontal				
161.3	-41.58	1.34	17.37	-25.55	-13	-12.55	Vertical				
112.2	-41.81	1.70	16.90	-26.61	-13	-13.61	Horizontal				
	Test Results for Channel 661/1880.0MHz										
3760	-50.07	4.04	33.56	-20.55	-13	-7.55	Vertical				
3760	-49.72	4.04	33.56	-20.20	-13	-7.20	Horizontal				
5640	-50.39	5.24	35.91	-19.72	-13	-6.72	Vertical				
5640	-54.82	5.24	35.91	-24.15	-13	-11.15	Horizontal				
93.7	-46.22	1.41	17.06	-30.57	-13	-17.57	Vertical				
172.7	-46.17	1.38	16.81	-30.74	-13	-17.74	Horizontal				
		Test Res	sults for Cha	nnel 810/19	09.8MHz						
3819.6	-57.34	4.04	34.00	-27.38	-13	-14.38	Vertical				
3819.6	-54.43	4.04	34.00	-24.47	-13	-11.47	Horizontal				
5729.4	-53.09	5.24	36.04	-22.29	-13	-9.29	Vertical				
5729.4	-53.45	5.24	36.04	-22.65	-13	-9.65	Horizontal				
210.2	-42.45	1.68	15.14	-28.99	-13	-15.99	Vertical				
107.8	-37.04	1.44	15.38	-23.10	-13	-10.10	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	S 1900						
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 512/18	50.2MHz					
3700.4	-55.8	4.04	33.51	-26.33	-13	-13.33	Vertical			
3700.4	-55.45	4.04	33.51	-25.98	-13	-12.98	Horizontal			
5550.6	-52.2	5.24	35.84	-21.60	-13	-8.60	Vertical			
5550.6	-49.26	5.24	35.84	-18.66	-13	-5.66	Horizontal			
248.1	-48.47	1.49	17.39	-32.57	-13	-19.57	Vertical			
94.6	-42.31	1.52	16.28	-27.55	-13	-14.55	Horizontal			
	Test Results for Channel 661/1880.0MHz									
3760	-53.73	4.04	33.56	-24.21	-13	-11.21	Vertical			
3760	-48.3	4.04	33.56	-18.78	-13	-5.78	Horizontal			
5640	-56.31	5.24	35.91	-25.64	-13	-12.64	Vertical			
5640	-54.26	5.24	35.91	-23.59	-13	-10.59	Horizontal			
207.6	-40.70	1.57	17.80	-24.47	-13	-11.47	Vertical			
226.5	-39.41	1.67	17.77	-23.31	-13	-10.31	Horizontal			
		Test Res	sults for Cha	nnel 810/19	09.8MHz					
3819.6	-55.5	4.04	34.00	-25.54	-13	-12.54	Vertical			
3819.6	-52.08	4.04	34.00	-22.12	-13	-9.12	Horizontal			
5729.4	-52.86	5.24	36.04	-22.06	-13	-9.06	Vertical			
5729.4	-50.6	5.24	36.04	-19.80	-13	-6.80	Horizontal			
186.6	-44.58	1.39	15.76	-30.21	-13	-17.21	Vertical			
134.2	-39.47	1.68	17.87	-23.28	-13	-10.28	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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			EGPR	S 1900						
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 512/18	50.2MHz					
3700.4	-46.33	4.04	33.51	-16.86	-13	-3.86	Vertical			
3700.4	-48.07	4.04	33.51	-18.60	-13	-5.60	Horizontal			
5550.6	-53.28	5.24	35.84	-22.68	-13	-9.68	Vertical			
5550.6	-49.88	5.24	35.84	-19.28	-13	-6.28	Horizontal			
162.2	-46.01	1.69	17.65	-30.05	-13	-17.05	Vertical			
112.2	-44.84	1.41	17.44	-28.81	-13	-15.81	Horizontal			
	Test Results for Channel 661/1880.0MHz									
3760	-48.43	4.04	33.56	-18.91	-13	-5.91	Vertical			
3760	-52.59	4.04	33.56	-23.07	-13	-10.07	Horizontal			
5640	-54.38	5.24	35.91	-23.71	-13	-10.71	Vertical			
5640	-51.62	5.24	35.91	-20.95	-13	-7.95	Horizontal			
111.2	-45.02	1.68	15.81	-30.89	-13	-17.89	Vertical			
245.6	-40.76	1.37	16.98	-25.15	-13	-12.15	Horizontal			
		Test Res	sults for Cha	nnel 810/19	09.8MHz					
3819.6	-55.98	4.04	34.00	-26.02	-13	-13.02	Vertical			
3819.6	-52.23	4.04	34.00	-22.27	-13	-9.27	Horizontal			
5729.4	-56.37	5.24	36.04	-25.57	-13	-12.57	Vertical			
5729.4	-56.83	5.24	36.04	-26.03	-13	-13.03	Horizontal			
83.2	-48.39	1.55	17.37	-32.57	-13	-19.57	Vertical			
180.0	-39.99	1.45	15.57	-25.87	-13	-12.87	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	A Band II						
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	_			
		Test Res	ults for Char	nnel 9262/18	52.4MHz					
3704.8	-53.82	4.04	33.51	-24.35	-13	-11.35	Vertical			
3704.8	-54.34	4.04	33.51	-24.87	-13	-11.87	Horizontal			
5557.2	-49.65	5.24	35.84	-19.05	-13	-6.05	Vertical			
5557.2	-55.97	5.24	35.84	-25.37	-13	-12.37	Horizontal			
91.7	-42.79	1.50	16.23	-28.06	-13	-15.06	Vertical			
190.2	-39.81	1.58	16.84	-24.55	-13	-11.55	Horizontal			
	Test Results for Channel 9400/1880MHz									
3760	-55.58	4.04	33.56	-26.06	-13	-13.06	Vertical			
3760	-53.53	4.04	33.56	-24.01	-13	-11.01	Horizontal			
5640	-56	5.24	35.91	-25.33	-13	-12.33	Vertical			
5640	-56.51	5.24	35.91	-25.84	-13	-12.84	Horizontal			
128.4	-39.77	1.71	17.12	-24.36	-13	-11.36	Vertical			
190.5	-45.36	1.63	17.36	-29.63	-13	-16.63	Horizontal			
		Test Res	ults for Char	nnel 9538/19	07.6MHz					
3815.2	-56.38	4.04	34.00	-26.42	-13	-13.42	Vertical			
3815.2	-54.24	4.04	34.00	-24.28	-13	-11.28	Horizontal			
5722.8	-51.07	5.24	36.04	-20.27	-13	-7.27	Vertical			
5722.8	-59.17	5.24	36.04	-28.37	-13	-15.37	Horizontal			
136.0	-42.69	1.62	17.15	-27.16	-13	-14.16	Vertical			
217.2	-39.70	1.31	17.12	-23.89	-13	-10.89	Horizontal			

Remark:

- 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 IV						
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)				
		Test Res	ults for Char	nnel 1312/17	'12.4MHz					
3424.8	-45.47	4.02	29.80	-19.69	-13	-6.69	Vertical			
3424.8	-54.7	4.02	29.80	-28.92	-13	-15.92	Horizontal			
5137.2	-48.61	5.24	35.84	-18.01	-13	-5.01	Vertical			
5137.2	-51.26	5.24	35.84	-20.66	-13	-7.66	Horizontal			
258.9	-41.43	1.61	15.96	-27.08	-13	-14.08	Vertical			
188.4	-46.14	1.60	16.46	-31.28	-13	-18.28	Horizontal			
	Test Results for Channel 1413/1732.6MHz									
3465.2	-45.83	4.03	30.00	-19.86	-13	-6.86	Vertical			
3465.2	-47.28	4.03	30.00	-21.31	-13	-8.31	Horizontal			
5197.8	-43.67	5.25	35.86	-13.06	-13	-0.06	Vertical			
5197.8	-47.2	5.25	35.86	-16.59	-13	-3.59	Horizontal			
102.0	-43.68	1.65	16.62	-28.71	-13	-15.71	Vertical			
209.1	-41.96	1.61	15.60	-27.97	-13	-14.97	Horizontal			
		Test Res	ults for Char	nnel 1513/17	'52.6MHz					
3505.2	-56.11	2.91	27.68	-31.34	-13	-18.34	Vertical			
3505.2	-49.34	2.91	27.68	-24.57	-13	-11.57	Horizontal			
5257.8	-46.35	5.26	35.86	-15.75	-13	-2.75	Vertical			
5257.8	-48.88	5.26	35.86	-18.28	-13	-5.28	Horizontal			
233.6	-46.61	1.64	16.37	-31.88	-13	-18.88	Vertical			
116.7	-41.31	1.79	15.05	-28.05	-13	-15.05	Horizontal			

Remark:

- 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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7.2 EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

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

Report No.: S21060402406005

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.

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

Substitution antenna and Receiving Antenna:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Character	Note
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:

ose the following spectrum analyzer settings.							
	GSM/GPRS/EGPRS	UMTS band/ CDMA2000					
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.:	WP13
Temperature:	120 °C	Relative Humidity:	48%
	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Allen Liu

■ Effective Radiated Power

	Radiated Power (ERP) for GSM850									
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
824.2	Н	12.25	2.11	23.84	2.15	31.83	1.524053			
836.4	Н	12.73	2.13	23.15	2.15	31.60	1.445440			
848.8	Н	12.88	2.13	23.06	2.15	31.66	1.465548			
824.2	V	12.31	2.11	23.11	2.15	31.16	1.306171			
836.4	V	12.22	2.13	23.07	2.15	31.01	1.261828			
848.8	V	12.22	2.13	23.25	2.15	31.19	1.315225			

	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	11.88	2.11	23.84	2.15	31.46	1.399587			
836.4	Н	12.25	2.13	23.15	2.15	31.12	1.294196			
848.8	Н	12.13	2.13	23.06	2.15	30.91	1.233105			
824.2	V	12.26	2.11	23.11	2.15	31.11	1.291219			
836.4	V	13.06	2.13	23.07	2.15	31.85	1.531087			
848.8	V	12.02	2.13	23.25	2.15	30.99	1.256030			

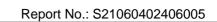
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	Radiated Power (ERP) for EGPRS850									
Frequency	Polarization	SG	Pcl	Ga Antenna Gain	Correction	ERP	ERP			
		Level		Gairi			Bm) (W) .00 0.251189 3.82 0.240991 3.36 0.216770			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
824.2	Н	4.42	2.11	23.84	2.15	24.00	0.251189			
836.4	Н	4.95	2.13	23.15	2.15	23.82	0.240991			
848.8	Н	4.58	2.13	23.06	2.15	23.36	0.216770			
824.2	V	5.08	2.11	23.11	2.15	23.93	0.247172			
836.4	V	5.21	2.13	23.07	2.15	24.00	0.251189			
848.8	V	4.12	2.13	23.25	2.15	23.09	0.203704			

	Radiated Power (ERP) for UMTS band V									
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
826.4	Н	3.08	2.11	23.84	2.15	22.66	0.184502			
836.4	Н	3.06	2.13	23.15	2.15	21.93	0.155955			
846.6	Н	2.76	2.13	23.06	2.15	21.54	0.142561			
826.4	V	2.86	2.11	23.11	2.15	21.71	0.148252			
836.4	V	2.80	2.13	23.07	2.15	21.59	0.144212			
846.6	V	3.80	2.13	23.25	2.15	22.77	0.189234			

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	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	6.27	3.76	28.24	30.75	1.188502			
1880	Н	6.03	3.91	28.22	30.34	1.081434			
1909.8	Н	7.37	3.93	28.20	31.64	1.458814			
1850.2	V	7.39	3.76	27.32	30.95	1.244515			
1880	V	7.68	3.91	27.33	31.10	1.288250			
1909.8	V	7.45	3.93	27.31	30.83	1.210598			

	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	6.36	3.76	28.24	30.84	1.213389			
1880	Н	6.33	3.91	28.22	30.64	1.158777			
1909.8	Н	7.49	3.93	28.20	31.76	1.499685			
1850.2	V	7.24	3.76	27.32	30.80	1.202264			
1880	V	7.35	3.91	27.33	30.77	1.193988			
1909.8	V	7.91	3.93	27.31	31.29	1.345860			

	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	1.07	3.76	28.24	25.55	0.358922			
1880	Н	2.08	3.91	28.22	26.39	0.435512			
1909.8	Н	1.49	3.93	28.20	25.76	0.376704			
1850.2	V	2.94	3.76	27.32	26.50	0.446684			
1880	V	2.08	3.91	27.33	25.50	0.354813			
1909.8	V	3.00	3.93	27.31	26.38	0.434510			

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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	-1.95	3.76	28.24	22.53	0.179061			
1880	Н	-2.11	3.91	28.22	22.20	0.165959			
1907.6	Н	-1.42	3.93	28.20	22.85	0.192752			
1852.4	V	-1.43	3.76	27.32	22.13	0.163305			
1880	V	-1.12	3.91	27.33	22.30	0.169824			
1907.6	V	-0.26	3.93	27.31	23.12	0.205116			

Radiated Power (E.I.R.P) for UMTS band IV								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP		
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)		
1712.4	Н	-1.58	3.13	27.63	22.92	0.195884		
1732.4	Н	-1.83	3.27	27.61	22.51	0.178238		
1752.6	Н	-1.83	3.30	27.60	22.47	0.176604		
1712.4	V	-1.10	3.13	27.63	23.40	0.218776		
1732.4	V	-1.45	3.27	27.61	22.89	0.194536		
1752.6	\	-0.89	3.30	27.60	23.41	0.219280		

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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 KDB 971168 D01 v03 Section 5.2

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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..

For CDMA2000 Power: Maxmum output power is verified on the Low, Middle and High channels according to procedures in section 4.4.5.2.of 3GPP2 C.S0011/TIA-98-E for 1Xrtt, section 3.1.2.3.4 of 3GPP2 C.S0033-0/TIA-866 for Rel.0 and section 4.3.4 of 3GPP2 C.S0033-A for Rev.A.

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.:	WP13
Temperature:	120 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Allen Liu

Test data reference attachment

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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 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 ±0.00025% (±2.5ppm) 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.
- 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.:	WP13
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Allen Liu
Results: PASS			

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Frequency Error Against Voltage for GSM 850 band(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	-8.37	-0.010007	
3.87	0.33	0.000395	
4.4	28.19	0.033704	

Frequency Error Against Temperature for GSM 850 band(Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-14.78	-0.017671	
-20	18.15	0.021700	
-10	-15.74	-0.018819	
0	-19.77	-0.023637	
10	4.05	0.004842	
20	8.13	0.009720	
30	-27.09	-0.032389	
40	19.22	0.022979	
50	17.28	0.020660	

Frequency Error Against Voltage for GPRS850 band(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	26.04	0.031133	
3.87	21.12	0.025251	
4.4	-18.97	-0.022681	

Frequency Error Against Temperature for GPRS850 band(Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-13.01	-0.015555	
-20	19.7	0.023553	
-10	-7.83	-0.009362	
0	27.47	0.032843	
10	27.29	0.032628	
20	-28.64	-0.034242	
30	0.86	0.001028	
40	-5.26	-0.006289	
50	11.26	0.013462	

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 Frequency Error Against Voltage for EGPRS850 band(Mid CH)

 Voltage (V)
 Frequency Error (Hz)
 Frequency Error (ppm)

 3.4
 -24.83
 -0.029687

 3.87
 -9.8
 -0.011717

 4.4
 22.79
 0.027248

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Frequency Error Against Temperature for EGPRS850 band(Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-23.21	-0.027750	
-20	-13.37	-0.015985	
-10	-11.7	-0.013989	
0	11.84	0.014156	
10	-9.7	-0.011597	
20	-20.24	-0.024199	
30	3.26	0.003898	
40	22.1	0.026423	
50	18.11	0.021652	

Note:

- 1. Normal Voltage = 3.87V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.4V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Frequency Error Against Voltage for UMTS band V(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	9.71	0.011609	
3.87	-9.99	-0.011944	
4.4	27.51	0.032891	

Frequency Error Against Temperature for UMTS band V (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-22.99	-0.027487	
-20	-22.88	-0.027355	
-10	13.93	0.016655	
0	19.4	0.023195	
10	9.8	0.011717	
20	-20.96	-0.025060	
30	-6.93	-0.008286	
40	-25.75	-0.030787	
50	19.39	0.023183	

Note:

- 1. Normal Voltage = 3.87V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.4V
- 2. 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 (Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	25.45	0.013537	
3.87	-4.06	-0.002160	
4.4	-11.38	-0.006053	

Frequency Error Against Temperature for PCS 1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-17.55	-0.009335	
-20	14.33	0.007622	
-10	-19.8	-0.010532	
0	9.02	0.004798	
10	26.98	0.014351	
20	-18.62	-0.009904	
30	11.14	0.005926	
40	-17.76	-0.009447	
50	-17.5	-0.009309	

Frequency Error Against Voltage for GPRS1900 band (Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	-18.54	-0.009862	
3.87	-3.54	-0.001883	
4.4	16.89	0.008984	

Frequency Error Against Temperature for GPRS1900 band (Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	28.39	0.015101		
-20	17.51	0.009314		
-10	5.3	0.002819		
0	6.44	0.003426		
10	16.4	0.008723		
20	13.65	0.007261		
30	3.09	0.001644		
40	-1.82	-0.000968		
50	-19.81	-0.010537		

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Frequency Error Against Voltage for EGPRS1900 band (Mid CH)				
Voltage (V)	tage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4	0.33	0.000176		
3.87	-23.8	-0.012660		
4.4	4.4 31.53 0.016771			

Frequency Error Against Temperature for EGPRS1900 band (Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	-17.97	-0.009559		
-20	25.89	0.013771		
-10	-27.15	-0.014441		
0	-24.48	-0.013021		
10	16.68	0.008872		
20	-13.63	-0.007250		
30	-17.04	-0.009064		
40	-20.28	-0.010787		
50	-22.14	-0.011777		

Note:

- 1.
- Normal Voltage = 3.87V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.4V 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 (Mid CH)				
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)				
3.4	21.83	0.011612		
3.87	11.55	0.006144		
4.4 1.17 0.000622				

Frequency Error Against Temperature for UMTS band II (Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	9.15	0.004867		
-20	-6.22	-0.003309		
-10	-19.42	-0.010330		
0	-8.46	-0.004500		
10	-0.82	-0.000436		
20	15.35	0.008165		
30	2.27	0.001207		
40	19.42	0.010330		
50	3.84	0.002043		

Frequency Error Against Voltage for UMTS band IV(Mid CH)			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4	3.55	0.002049	
3.87 -24.85 -0.014343			
4.4 -15.65 -0.009033			

Frequency Error Against Temperature for UMTS band IV (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-15.07	-0.008698	
-20	-12.76	-0.007365	
-10	30.57	0.017644	
0	18.68	0.010781	
10	22.34	0.012894	
20	28.13	0.016236	
30	6.46	0.003729	
40	-2.92	-0.001685	
50	-13.47	-0.007774	

Note:

- 1. Normal Voltage = 3.87V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.4V
- 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 Subclause 5.2.3.4 of ANSI C63.26-2015 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%.

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7.5.6 Test Results

EUT:	Smart Phone	Model No.:	WP13
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Allen Liu
Results: PASS			

The Test data reference attachment:

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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 KDB 971168 D01 Section 4

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.

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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.

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.:	WP13
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Allen Liu
Results: PASS			

The Test data reference attachment:

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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 FCC KDB 971168 D01 Section6.

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.

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.:	WP13
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Allen Liu
Results: PASS			

The Test data reference attachment:

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Certificate #4298.01 Report No.: S21060402406005

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 FCC KDB 971168 D01 Section6.

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.

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.

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ACCREDITED

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7.8.6 Test Results

EUT:	Smart Phone	Model No.:	WP13
Temperature:	120 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Allen Liu
Results: PASS		_	

The Test data reference attachment:

END OF REPORT

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