# FCC RADIO TEST REPORT FCC ID: 2AHZ5MAX3

**Product:** Smartphone

Trade Mark: CUBOT

Model No.: MAX 3

Family Model: N/A

Report No.: S21090805203005

**Issue Date:** Sep 27, 2021

# **Prepared for**

Shenzhen Huafurui Technology Co., Ltd

Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street ,Xili, Nan shan district,Shenzhen, China

# Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen P.R. China Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website:http://www.ntek.org.cn

Version.1.2 Page 1 of 43



# **TABLE OF CONTENTS**

	TEST RESULT CERTIFICATION	
2	SUMMARY OF TEST RESULTS	4
3	FACILITIES AND ACCREDITATIONS	5
3.1	FACILITIES	5
3.2		
3.3		
4	GENERAL DESCRIPTION OF EUT	6
<b>5</b> ]	DESCRIPTION OF TEST MODES	8
6	SETUP OF EQUIPMENT UNDER TEST	9
6.1		
6.2	2 SUPPORT EQUIPMENT	10
6.3	2 SUPPORT EQUIPMENT	11
7	TEST REQUIREMENTS	12
7.1	FIELD STRENGTH OF SPURIOUS RADIATION	12
7.2	2 EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER	23
7.3	CONDUCTED OUTPUT POWER	29
7.4	FREQUENCY STABILITY	31
7.5	12.111 10 11/210102101110	
7.6		
7.7	001/200122 212/2020	
7.8	S CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL	42



## TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen Huafurui Technology Co., Ltd
Address:	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street ,Xili, Nan shan district,Shenzhen, China
Manufacturer's Name:	Shenzhen Huafurui Technology Co., Ltd
Address:	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street ,Xili, Nan shan district,Shenzhen, China
Product description	
Product name:	Smartphone
Model and/or type reference:	MAX 3
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.

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

Date of Test	: <u></u>	Sep 09. 2021~Sep 27, 2021	
Testing Engineer	:	Buen lin	
	<u></u>	(Allen Liu)	
		Alex	
Authorized Signatory	: <u> </u>		
		(Alex Li)	

Version.1.2 Page 3 of 43



# SUMMARY OF TEST RESULTS

FCC Part22H / FCC Part24E / FCC Part 27 & ANSI C63.26-2015						
FCC Rule	Verdict	Remark				
2.1046	Conducted Output Power	PASS				
24.232 27.50 KDB 971168 D01 Clause 5.7	Peak-to-Average Ratio	PASS				
2.1049 22.917 24.238 KDB 971168 D01 Clause 4.2	Occupied Bandwidth	PASS				
2.1051 22.917 24.238 27.53 KDB 971168 D01 Clause 6	Band Edge	PASS				
22.913 KDB 971168 D01 Clause 5.6	Effective Radiated Power	PASS				
24.232 27.50 KDB 971168 D01 Clause 5.6	Equivalent Isotropic Radiated Power	PASS				
2.1053 22.917 24.238 27.53 KDB 971168 D01 Clause 7	Field Strength of Spurious Radiation	PASS				
2.1055 22.355 24.235 27.54 KDB 971168 D01 Clause 9	Frequency Stability for Temperature & Voltage	PASS				
2.1051 22.917 24.238 27.53 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.

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

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
140.		
1	Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB

Version.1.2 Page 5 of 43



**HW Version** 

SW Version

## **GENERAL DESCRIPTION OF EUT** Product Feature and Specification Smartphone Equipment **CUBOT** Trade Mark 2AHZ5MAX3 FCC ID MAX 3 Model No. N/A Family Model Model Difference N/A □ GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz: ☐UMTS FDD Band V: TX826.4MHz~846.6MHz /RX871.4MHz~891.6MHz; Operating Frequency MUMTS FDD Band II: TX1852.4MHz~1907.6MHz /RX1932.4MHz~1987.6MHz: XUMTS-FDD Band IV:TX1710MHz~1755MHz /RX2110MHz~2155MHz ⊠GMSK for GSM/GPRS: ⊠8PSK for EGPRS: Modulation □ QPSK for UMTS bands; 4, tested with power level 5(GSM 850) 1. tested with power level 0(GSM 1900) Power Class 3. tested with power control "all 1" (WCDMA Band II/IV/V) Multi-Class12 **GPRS Class** ⊠Only 4 timeslots are used for GPRS and EGPRS SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. SIM CARD The SIM 1 is chosen for test. **FPC** Antenna Antenna Type GSM 850: -1.8dBi; GSM:1900:0.5dBi Antenna Gain Band II: 0.5 dBi: Band IV: 0.5dBi; Band V: -1.8dBi ⊠DC supply: DC 3.85V, 5000mAh from battery or DC 5V from Adapter. Adapter supply: Power supply Model: HJ-0502000W2-US Input: 100-240V~50/60Hz 0.3A Output: 5V---2000mA

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.

TE839 MAIN PCB V1.2

CUOBT MAX 3 B011C V02 20210701

Version.1.2 Page 6 of 43



## **Revision History**

Report No.	Version	Description	Issued Date
S21090805203005	Rev.01	Initial issue of report	Sep 27, 2021

Version.1.2 Page 7 of 43

## **DESCRIPTION OF TEST MODES**

IV, HSUPA band IV frequency band.

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, HSUPA band V, HSDPA band

Note: GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, HSDPA band II, HSDPA band II, HSDPA band V, HSUPA band V, HSDPA band IV, HSUPA band IV, modes have been tested during the test. the worst condition 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  $\,\mathrm{IV}$  .
- 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 850/1900	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:

Tost i requerity and orientele.								
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

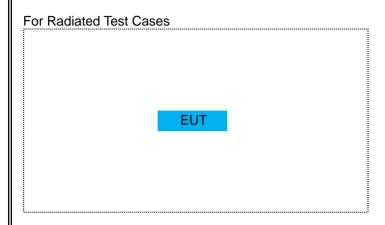
Frequency	☑ UMTS Band IV			
Band	Channel	Frequency (MHz)		
CH_H	1513	1752.6		
CH_M	1413	1732.6		
CH_L	1312	1712.4		

Version.1.2 Page 8 of 43

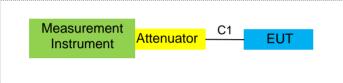


## 6 SETUP OF EQUIPMENT UNDER TEST

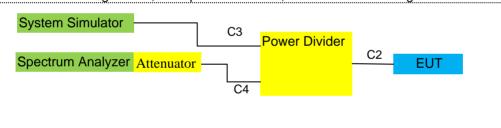
## 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



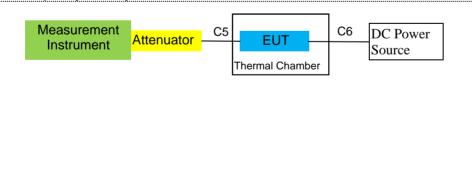




For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission



## For Frequency Stability



Version.1.2 Page 9 of 43

## **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".

Version.1.2 Page 10 of 43



## 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	2021.7.01	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	2021.7.01	2022.06.30	1 year
7	Amplifier	EM	EM-30180	060538	2021.7.01	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	2021.7.01	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 3	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.

Version.1.2 Page 11 of 43



## 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.

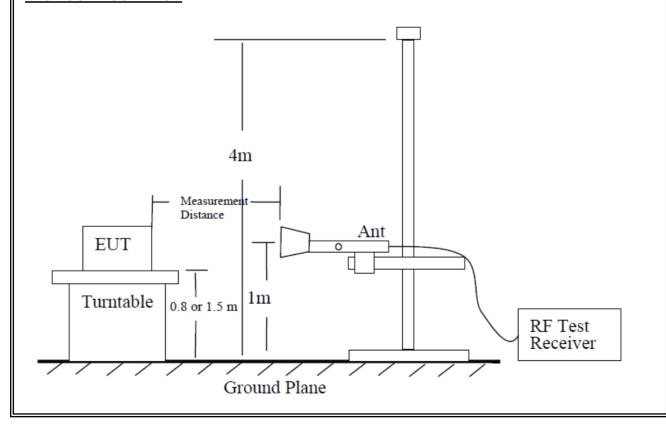
## 7.1.3 Measuring Instruments

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

## 7.1.4 Test Configuration

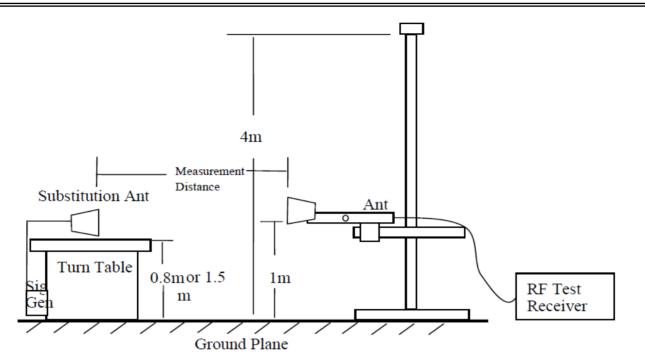
According to the ANSI/TIA-603-E-2016 test method, The Receiver or Spectrum was scanned from 9 KHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz The resolution bandwidth is set as outlined in Part 24.238, 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 / V / IV / GSM 850 / 1900.

## **TEST CONFIGURATION**



Version.1.2 Page 12 of 43





#### 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<sub>r</sub>).
- 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<sub>r</sub>). 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.

Version.1.2 Page 13 of 43

## 7.1.6 Test Results

EUT:	Smartphone	Model No.:	MAX 3
Temperature:	20 ℃	Relative Humidity:	48%
	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,	Test By:	Allen Liu

#### Radiated Spurious Emission

Radiated Spurious Emission										
	-		GSI	<i>l</i> l 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	-45.84	2.80	27.50	-21.14	-13	-8.14	Vertical			
1648.4	-52.72	2.80	27.50	-28.02	-13	-15.02	Horizontal			
2472.6	-50.71	2.91	27.80	-25.82	-13	-12.82	Vertical			
2472.6	-47.57	2.91	27.80	-22.68	-13	-9.68	Horizontal			
3296.8	-49.72	4.02	29.87	-23.87	-13	-10.87	Vertical			
3296.8	-47.36	4.02	29.87	-21.51	-13	-8.51	Horizontal			
131.2	-50.9	1.35	17.77	-34.48	-13	-21.48	Vertical			
116.8	-44.34	1.77	17.83	-28.28	-13	-15.28	Horizontal			
Test Results for Channel 189/836.4 MHz										
1673.2	-46.58	2.80	27.48	-21.90	-13	-8.90	Vertical			
1673.2	-51.94	2.80	27.48	-27.26	-13	-14.26	Horizontal			
2509.8	-48.88	2.91	27.70	-24.09	-13	-11.09	Vertical			
2509.8	-50.76	2.91	27.70	-25.97	-13	-12.97	Horizontal			
3346.4	-48.08	4.02	29.82	-22.28	-13	-9.28	Vertical			
3346.4	-49.53	4.02	29.82	-23.73	-13	-10.73	Horizontal			
208.8	-49.53	1.44	15.26	-35.72	-13	-22.72	Vertical			
131.6	-50.42	1.51	17.23	-34.70	-13	-21.70	Horizontal			
		Test Re	sults for Cha	annel 251/84	8.8 MHz					
1697.6	-51.06	2.80	27.42	-26.44	-13	-13.44	Vertical			
1697.6	-44.15	2.80	27.42	-19.53	-13	-6.53	Horizontal			
2546.4	-44.32	2.91	27.68	-19.55	-13	-6.55	Vertical			
2546.4	-47.19	2.91	27.68	-22.42	-13	-9.42	Horizontal			
3395.2	-51.68	4.02	29.80	-25.90	-13	-12.90	Vertical			
3395.2	-52.88	4.02	29.80	-27.10	-13	-14.10	Horizontal			
95.0	-53.63	1.74	16.46	-38.91	-13	-25.91	Vertical			
208.3	-46.27	1.68	16.21	-31.74	-13	-18.74	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)

Version.1.2 Page 14 of 43



			GPR	S 850				
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)		
	<del>-</del>	Test Re	sults for Cha	annel 128/82	4.2 MHz	-	<del>-</del>	
1648.4	-49.08	2.80	27.50	-24.38	-13	-11.38	Vertical	
1648.4	-46.78	2.80	27.50	-22.08	-13	-9.08	Horizontal	
2472.6	-50.75	2.91	27.80	-25.86	-13	-12.86	Vertical	
2472.6	-52.97	2.91	27.80	-28.08	-13	-15.08	Horizontal	
3296.8	-47.62	4.02	29.87	-21.77	-13	-8.77	Vertical	
3296.8	-44.4	4.02	29.87	-18.55	-13	-5.55	Horizontal	
154.8	-50.59	1.35	16.91	-35.03	-13	-22.03	Vertical	
238.4	-48.54	1.59	17.39	-32.73	-13	-19.73	Horizontal	
Test Results for Channel 189/836.4 MHz								
1673.2	-49.85	2.80	27.48	-25.17	-13	-12.17	Vertical	
1673.2	-53.88	2.80	27.48	-29.20	-13	-16.20	Horizontal	
2509.8	-49.03	2.91	27.70	-24.24	-13	-11.24	Vertical	
2509.8	-44.2	2.91	27.70	-19.41	-13	-6.41	Horizontal	
3346.4	-49.75	4.02	29.82	-23.95	-13	-10.95	Vertical	
3346.4	-50.41	4.02	29.82	-24.61	-13	-11.61	Horizontal	
110.1	-45.35	1.36	17.36	-29.35	-13	-16.35	Vertical	
148.2	-44.5	1.32	15.19	-30.64	-13	-17.64	Horizontal	
		Test Re	sults for Cha	annel 251/84	8.8 MHz			
1697.6	-51.09	2.80	27.42	-26.47	-13	-13.47	Vertical	
1697.6	-50.69	2.80	27.42	-26.07	-13	-13.07	Horizontal	
2546.4	-53.14	2.91	27.68	-28.37	-13	-15.37	Vertical	
2546.4	-48.81	2.91	27.68	-24.04	-13	-11.04	Horizontal	
3395.2	-52.5	4.02	29.80	-26.72	-13	-13.72	Vertical	
3395.2	-48.51	4.02	29.80	-22.73	-13	-9.73	Horizontal	
198.1	-48.69	1.46	17.68	-32.47	-13	-19.47	Vertical	
220.2	-52.35	1.31	15.79	-37.87	-13	-24.87	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)

Version.1.2 Page 15 of 43



			EGPI	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	-53.72	2.80	27.50	-29.02	-13	-16.02	Vertical
1648.4	-52.24	2.80	27.50	-27.54	-13	-14.54	Horizontal
2472.6	-50.21	2.91	27.80	-25.32	-13	-12.32	Vertical
2472.6	-53.76	2.91	27.80	-28.87	-13	-15.87	Horizontal
3296.8	-47.15	4.02	29.87	-21.30	-13	-8.30	Vertical
3296.8	-51.04	4.02	29.87	-25.19	-13	-12.19	Horizontal
116.4	-51.89	1.69	16.60	-36.98	-13	-23.98	Vertical
166.1	-49.17	1.44	17.78	-32.82	-13	-19.82	Horizontal
		Test Re	sults for Cha	annel 189/83	6.4 MHz		
1673.2	-52.51	2.80	27.48	-27.83	-13	-14.83	Vertical
1673.2	-48.06	2.80	27.48	-23.38	-13	-10.38	Horizontal
2509.8	-46.24	2.91	27.70	-21.45	-13	-8.45	Vertical
2509.8	-46.44	2.91	27.70	-21.65	-13	-8.65	Horizontal
3346.4	-46.67	4.02	29.82	-20.87	-13	-7.87	Vertical
3346.4	-44.07	4.02	29.82	-18.27	-13	-5.27	Horizontal
160.1	-49.14	1.54	16.14	-34.55	-13	-21.55	Vertical
246.5	-44.85	1.31	17.24	-28.92	-13	-15.92	Horizontal
		Test Re	sults for Cha	annel 251/84	8.8 MHz		
1697.6	-50.38	2.80	27.42	-25.76	-13	-12.76	Vertical
1697.6	-49.64	2.80	27.42	-25.02	-13	-12.02	Horizontal
2546.4	-53.47	2.91	27.68	-28.70	-13	-15.70	Vertical
2546.4	-49.3	2.91	27.68	-24.53	-13	-11.53	Horizontal
3395.2	-52.02	4.02	29.80	-26.24	-13	-13.24	Vertical
3395.2	-47.27	4.02	29.80	-21.49	-13	-8.49	Horizontal
272.1	-46.73	1.73	15.96	-32.50	-13	-19.50	Vertical
163.9	-46.91	1.35	17.53	-30.73	-13	-17.73	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)

Version.1.2 Page 16 of 43



			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 Res	sults for Cha	nnel 4233/8	46.6MHz				
1693.2	-48.94	2.80	27.50	-24.24	-13	-11.24	Vertical		
1693.2	-52.77	2.80	27.50	-28.07	-13	-15.07	Horizontal		
2539.8	-48.48	2.91	27.80	-23.59	-13	-10.59	Vertical		
2539.8	-49.83	2.91	27.80	-24.94	-13	-11.94	Horizontal		
3386.4	-47.28	4.02	29.87	-21.43	-13	-8.43	Vertical		
3386.4	-51.76	4.02	29.87	-25.91	-13	-12.91	Horizontal		
264.3	-49.11	1.75	15.49	-35.37	-13	-22.37	Vertical		
209.9	-48.34	1.37	16.58	-33.13	-13	-20.13	Horizontal		
	Test Results for Channel 4182/836.4MHz								
1672.8	-45.31	2.80	27.48	-20.63	-13	-7.63	Vertical		
1672.8	-48.49	2.80	27.48	-23.81	-13	-10.81	Horizontal		
2509.2	-48.82	2.91	27.70	-24.03	-13	-11.03	Vertical		
2509.2	-52.31	2.91	27.70	-27.52	-13	-14.52	Horizontal		
3345.6	-49.99	4.02	29.82	-24.19	-13	-11.19	Vertical		
3345.6	-49.79	4.02	29.82	-23.99	-13	-10.99	Horizontal		
255.8	-44.09	1.68	17.84	-27.93	-13	-14.93	Vertical		
129.8	-53.59	1.49	16.34	-38.73	-13	-25.73	Horizontal		
		Test Res	sults for Cha	innel 4132/8	26.4MHz				
1652.8	-47.22	2.80	27.42	-22.60	-13	-9.60	Vertical		
1652.8	-50.97	2.80	27.42	-26.35	-13	-13.35	Horizontal		
2479.2	-49.38	2.91	27.68	-24.61	-13	-11.61	Vertical		
2479.2	-51.21	2.91	27.68	-26.44	-13	-13.44	Horizontal		
3305.6	-51.12	4.02	29.80	-25.34	-13	-12.34	Vertical		
3305.6	-53.35	4.02	29.80	-27.57	-13	-14.57	Horizontal		
135.6	-52.86	1.36	17.52	-36.70	-13	-23.70	Vertical		
190.6	-45.03	1.63	15.02	-31.64	-13	-18.64	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)

Version.1.2 Page 17 of 43



			GSM	<b>1</b> 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	-48.17	4.04	33.51	-18.70	-13	-5.70	Vertical
3700.4	-48.99	4.04	33.51	-19.52	-13	-6.52	Horizontal
5550.6	-46.25	5.24	35.84	-15.65	-13	-2.65	Vertical
5550.6	-54	5.24	35.84	-23.40	-13	-10.40	Horizontal
105.3	-52.55	1.40	15.14	-38.81	-13	-25.81	Vertical
247.6	-46.87	1.45	17.54	-30.78	-13	-17.78	Horizontal
		Test Res	sults for Cha	nnel 661/188	80.0MHz		
3760	-49.2	4.04	33.56	-19.68	-13	-6.68	Vertical
3760	-50.59	4.04	33.56	-21.07	-13	-8.07	Horizontal
5640	-48.29	5.24	35.91	-17.62	-13	-4.62	Vertical
5640	-49.88	5.24	35.91	-19.21	-13	-6.21	Horizontal
187.9	-45.5	1.74	16.40	-30.84	-13	-17.84	Vertical
86.7	-44.91	1.42	15.72	-30.60	-13	-17.60	Horizontal
		Test Res	sults for Cha	nnel 810/190	09.8MHz		
3819.6	-46.78	4.04	34.00	-16.82	-13	-3.82	Vertical
3819.6	-47.64	4.04	34.00	-17.68	-13	-4.68	Horizontal
5729.4	-51.72	5.24	36.04	-20.92	-13	-7.92	Vertical
5729.4	-47.3	5.24	36.04	-16.50	-13	-3.5	Horizontal
217.3	-50.95	1.67	17.51	-35.11	-13	-22.11	Vertical
112.7	-51.16	1.58	17.73	-35.01	-13	-22.01	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)

Page 18 of 43 Version.1.2



			GPR:	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	-53.05	4.04	33.51	-23.58	-13	-10.58	Vertical			
3700.4	-51.79	4.04	33.51	-22.32	-13	-9.32	Horizontal			
5550.6	-48.52	5.24	35.84	-17.92	-13	-4.92	Vertical			
5550.6	-53.87	5.24	35.84	-23.27	-13	-10.27	Horizontal			
249.9	-53.22	1.66	17.06	-37.83	-13	-24.83	Vertical			
237.9	-47.32	1.34	15.54	-33.12	-13	-20.12	Horizontal			
	Test Results for Channel 661/1880.0MHz									
3760	-46.74	4.04	33.56	-17.22	-13	-4.22	Vertical			
3760	-48.56	4.04	33.56	-19.04	-13	-6.04	Horizontal			
5640	-51.92	5.24	35.91	-21.25	-13	-8.25	Vertical			
5640	-53.85	5.24	35.91	-23.18	-13	-10.18	Horizontal			
168.5	-45.93	1.33	16.18	-31.08	-13	-18.08	Vertical			
249.4	-53.06	1.60	17.99	-36.67	-13	-23.67	Horizontal			
		Test Res	sults for Cha	nnel 810/19	09.8MHz					
3819.6	-52.15	4.04	34.00	-22.19	-13	-9.19	Vertical			
3819.6	-47.8	4.04	34.00	-17.84	-13	-4.84	Horizontal			
5729.4	-48.39	5.24	36.04	-17.59	-13	-4.59	Vertical			
5729.4	-53	5.24	36.04	-22.20	-13	-9.20	Horizontal			
206.6	-45.33	1.65	17.27	-29.72	-13	-16.72	Vertical			
227.8	-46.13	1.39	15.49	-32.04	-13	-19.04	Horizontal			

#### Remark<sup>\*</sup>

- 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)

Version.1.2 Page 19 of 43



			EGPR	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	-50.2	4.04	33.51	-20.73	-13	-7.73	Vertical			
3700.4	-45.82	4.04	33.51	-16.35	-13	-3.35	Horizontal			
5550.6	-46.31	5.24	35.84	-15.71	-13	-2.71	Vertical			
5550.6	-47.55	5.24	35.84	-16.95	-13	-3.95	Horizontal			
224.9	-52.8	1.41	17.87	-36.34	-13	-23.34	Vertical			
105.4	-53.81	1.47	17.45	-37.84	-13	-24.84	Horizontal			
	Test Results for Channel 661/1880.0MHz									
3760	-52.94	4.04	33.56	-23.42	-13	-10.42	Vertical			
3760	-49.93	4.04	33.56	-20.41	-13	-7.41	Horizontal			
5640	-47.92	5.24	35.91	-17.25	-13	-4.25	Vertical			
5640	-49.18	5.24	35.91	-18.51	-13	-5.51	Horizontal			
110.0	-52.91	1.35	15.31	-38.96	-13	-25.96	Vertical			
231.5	-53.02	1.48	17.05	-37.45	-13	-24.45	Horizontal			
		Test Re	sults for Cha	nnel 810/190	09.8MHz					
3819.6	-50.91	4.04	34.00	-20.95	-13	-7.95	Vertical			
3819.6	-53.47	4.04	34.00	-23.51	-13	-10.51	Horizontal			
5729.4	-46.64	5.24	36.04	-15.84	-13	-2.84	Vertical			
5729.4	-46.84	5.24	36.04	-16.04	-13	-3.04	Horizontal			
156.0	-48.39	1.49	17.71	-32.17	-13	-19.17	Vertical			
144.9	-50.03	1.55	15.08	-36.50	-13	-23.50	Horizontal			

#### Remark<sup>\*</sup>

- 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)

Version.1.2 Page 20 of 43



			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	-53.61	4.04	33.51	-24.14	-13	-11.14	Vertical			
3704.8	-49.73	4.04	33.51	-20.26	-13	-7.26	Horizontal			
5557.2	-51.2	5.24	35.84	-20.60	-13	-7.60	Vertical			
5557.2	-46.29	5.24	35.84	-15.69	-13	-2.69	Horizontal			
91.6	-53.45	1.66	17.47	-37.64	-13	-24.64	Vertical			
104.4	-46.45	1.38	16.18	-31.65	-13	-18.65	Horizontal			
	Test Results for Channel 9400/1880MHz									
3760	-50.79	4.04	33.56	-21.27	-13	-8.27	Vertical			
3760	-47.63	4.04	33.56	-18.11	-13	-5.11	Horizontal			
5640	-47.06	5.24	35.91	-16.39	-13	-3.39	Vertical			
5640	-47.56	5.24	35.91	-16.89	-13	-3.89	Horizontal			
121.2	-52.5	1.38	16.34	-37.54	-13	-24.54	Vertical			
167.8	-44.4	1.34	16.03	-29.71	-13	-16.71	Horizontal			
		Test Res	ults for Char	nnel 9538/19	07.6MHz					
3815.2	-49.8	4.04	34.00	-19.84	-13	-6.84	Vertical			
3815.2	-45.83	4.04	34.00	-15.87	-13	-2.87	Horizontal			
5722.8	-46.51	5.24	36.04	-15.71	-13	-2.71	Vertical			
5722.8	-47.37	5.24	36.04	-16.57	-13	-3.57	Horizontal			
135.9	-53.11	1.51	15.52	-39.10	-13	-26.10	Vertical			
247.5	-49.04	1.32	17.18	-33.19	-13	-20.19	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)

Version.1.2 Page 21 of 43



			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	-53.95	4.02	29.80	-28.17	-13	-15.17	Vertical
3424.8	-46.87	4.02	29.80	-21.09	-13	-8.09	Horizontal
5137.2	-53.4	5.24	35.84	-22.80	-13	-9.80	Vertical
5137.2	-51.49	5.24	35.84	-20.89	-13	-7.89	Horizontal
81.8	-52.41	1.66	15.00	-39.07	-13	-26.07	Vertical
115.1	-50.22	1.58	16.20	-35.60	-13	-22.60	Horizontal
		Test Res	ults for Char	nnel 1412/17	'32.4MHz		
3464.8	-50.36	4.03	30.00	-24.39	-13	-11.39	Vertical
3464.8	-46.4	4.03	30.00	-20.43	-13	-7.43	Horizontal
5197.2	-45.76	5.25	35.86	-15.15	-13	-2.15	Vertical
5197.2	-46.04	5.25	35.86	-15.43	-13	-2.43	Horizontal
246.8	-46.97	1.55	16.39	-32.12	-13	-19.12	Vertical
101.0	-45.08	1.32	16.25	-30.15	-13	-17.15	Horizontal
		Test Res	ults for Char	nnel 1513/17	'52.6MHz		
3505.2	-45.47	2.91	27.68	-20.70	-13	-7.70	Vertical
3505.2	-48.83	2.91	27.68	-24.06	-13	-11.06	Horizontal
5257.8	-53.72	5.26	35.86	-23.12	-13	-10.12	Vertical
5257.8	-46.03	5.26	35.86	-15.43	-13	-2.43	Horizontal
199.0	-50.51	1.33	15.78	-36.06	-13	-23.06	Vertical
193.1	-47.42	1.47	17.42	-31.47	-13	-18.47	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)

Version.1.2 Page 22 of 43

## 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.: S21090805203005

#### 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 v03r01. 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) and the EIRP of mobile transmitters are limited to 1 Watts (AWS 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.<sup>2</sup>

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.

Version.1.2 Page 23 of 43

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:

550 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				

Version.1.2 Page 24 of 43



## 7.2.6 Test Results

EUT:	Smartphone	Model No.:	MAX 3
Temperature:	120 7	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

## ■ 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	13.16	2.11	23.84	2.15	32.74	1.879317		
836.4	Н	13.89	2.13	23.15	2.15	32.76	1.887991		
848.8	Н	14.79	2.13	23.06	2.15	33.57	2.275097		
824.2	V	14.75	2.11	23.11	2.15	33.60	2.290868		
836.4	V	14.27	2.13	23.07	2.15	33.06	2.023019		
848.8	V	14.59	2.13	23.25	2.15	33.56	2.269865		

	Radiated Power (ERP) for GPRS850								
Frequency Polarization	SG	Pcl	Ga Antenna	Correction	ERP	ERP			
	1 Glarization	Level		Gain					
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)		
824.2	Н	13.95	2.11	23.84	2.15	33.53	2.254239		
836.4	Н	14.79	2.13	23.15	2.15	33.66	2.322737		
848.8	Н	14.85	2.13	23.06	2.15	33.63	2.306747		
824.2	V	14.64	2.11	23.11	2.15	33.49	2.233572		
836.4	V	14.11	2.13	23.07	2.15	32.90	1.949845		
848.8	V	14.22	2.13	23.25	2.15	33.19	2.084491		

Version.1.2 Page 25 of 43



	Radiated Power (ERP) for EGPRS850								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP		
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)		
824.2	Н	8.87	2.11	23.84	2.15	28.45	0.699842		
836.4	Н	10.08	2.13	23.15	2.15	28.95	0.785236		
848.8	Н	9.83	2.13	23.06	2.15	28.61	0.726106		
824.2	V	9.64	2.11	23.11	2.15	28.49	0.706318		
836.4	V	10.85	2.13	23.07	2.15	29.64	0.920450		
848.8	V	9.81	2.13	23.25	2.15	28.78	0.755092		

	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	1.65	2.11	23.84	2.15	21.23	0.132739		
835	Н	3.03	2.13	23.15	2.15	21.90	0.154882		
846.6	Н	2.07	2.13	23.06	2.15	20.85	0.121619		
826.4	V	1.53	2.11	23.11	2.15	20.38	0.109144		
835	V	2.86	2.13	23.07	2.15	21.65	0.146218		
846.6	V	2.31	2.13	23.25	2.15	21.28	0.134276		

Version.1.2 Page 26 of 43



	Rad	diated Powe	er (E.I.R.P)	for GSM190	0	
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)
1850.2	Н	8.23	3.76	28.24	32.71	1.866380
1880	Н	7.71	3.91	28.22	32.02	1.592209
1909.8	Н	7.99	3.93	28.20	32.26	1.682674
1850.2	V	9.22	3.76	27.32	32.78	1.896706
1880	V	9.02	3.91	27.33	32.44	1.753881
1909.8	V	8.80	3.93	27.31	32.18	1.651962

	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	7.67	3.76	28.24	32.15	1.640590
1880	Н	8.45	3.91	28.22	32.76	1.887991
1909.8	Н	8.15	3.93	28.20	32.42	1.745822
1850.2	V	8.98	3.76	27.32	32.54	1.794734
1880	V	8.72	3.91	27.33	32.14	1.636817
1909.8	V	9.22	3.93	27.31	32.60	1.819701

	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	4.13	3.76	28.24	28.61	0.726106	
1880	Н	3.76	3.91	28.22	28.07	0.641210	
1909.8	Н	3.59	3.93	28.20	27.86	0.610942	
1850.2	V	4.94	3.76	27.32	28.50	0.707946	
1880	V	4.55	3.91	27.33	27.97	0.626614	
1909.8	V	4.71	3.93	27.31	28.09	0.644169	

Version.1.2 Page 27 of 43



	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	-1.52	3.76	28.24	22.96	0.197697	
1880	Н	-3.00	3.91	28.22	21.31	0.135207	
1907.6	Н	-1.49	3.93	28.20	22.78	0.189671	
1852.4	V	-1.45	3.76	27.32	22.11	0.162555	
1880	V	-1.37	3.91	27.33	22.05	0.160325	
1907.6	V	-0.68	3.93	27.31	22.70	0.186209	

	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	-3.10	3.13	27.63	21.40	0.138038	
1732.4	Н	-2.90	3.27	27.61	21.44	0.139316	
1752.6	Н	-2.80	3.30	27.60	21.50	0.141254	
1712.4	V	-3.37	3.13	27.63	21.13	0.129718	
1732.4	V	-2.78	3.27	27.61	21.56	0.143219	
1752.6	V	-2.47	3.30	27.60	21.83	0.152405	

Version.1.2 Page 28 of 43

## 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

Report No.: S21090805203005

#### 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.

Version.1.2 Page 29 of 43



## 7.3.6 Test Results

EUT:	Smartphone	Model No.:	MAX 3
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

Version.1.2 Page 30 of 43

## 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.

Certificate #4298.01

Report No.: S21090805203005

## 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 CMW500 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:	Smartphone	Model No.:	MAX 3
Temperature:	20 ℃	Relative Humidity:	48%
	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,	Test By:	Allen Liu
Results: PASS			

Version.1.2 Page 31 of 43



Frequ	Frequency Error Against Voltage for GSM 850 band(Mid CH)		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	6.65	0.007951	
3.85	9.99	0.011944	
4.2	9.75	0.011657	

Frequency Error Against Temperature for GSM 850 band(Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	9.37	0.011203
-20	6.69	0.007999
-10	6.03	0.007209
0	6.19	0.007401
10	8.47	0.010127
20	8.29	0.009912
30	6.43	0.007688
40	9.84	0.011765
50	9.6	0.011478

Frequency Error Against Voltage for GPRS850 band(Mid CH)		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.4	6.82	0.008154
3.85	9.1	0.010880
4.2	6.41	0.007664

Frequency Error Against Temperature for GPRS850 band(Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	5.48	0.006552
-20	8.83	0.010557
-10	6.53	0.007807
0	6.26	0.007484
10	7.72	0.009230
20	7.06	0.008441
30	6.95	0.008309
40	7.42	0.008871
50	9.43	0.011275

Version.1.2 Page 32 of 43



Frequency Error Against Voltage for EGPRS850 band(Mid CH)		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.4	8.69	0.010390
3.85	9.79	0.011705
4.2	6.17	0.007377

Frequency Error Against Temperature for EGPRS850 band(Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	7.64	0.009134
-20	8.92	0.010665
-10	6.13	0.007329
0	6.42	0.007676
10	7.14	0.008537
20	7.6	0.009087
30	6.71	0.008022
40	8.16	0.009756
50	13.48	0.016117

#### 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.

Frequency Error Against Voltage for UMTS band V(Mid CH)		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.4	-18.37	-0.021963
3.85	-19.62	-0.023458
4.2	-19.44	-0.023242

Frequency Error Against Temperature for UMTS band V (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-15.84	-0.018938	
-20	-17.81	-0.021294	
-10	-15.38	-0.018388	
0	-16.83	-0.020122	
10	-16.27	-0.019452	
20	-19.5	-0.023314	
30	-17.29	-0.020672	
40	-19.79	-0.023661	
50	-20.81	-0.024880	

## 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.

Version.1.2 Page 33 of 43



Frequency Error Against Voltage for PCS 1900 band (Mid CH)		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.4	20.05	0.010665
3.85	16.48	0.008766
4.2	18.26	0.009713

Frequency Error Against Temperature for PCS 1900 band (Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	18.27	0.009718
-20	19.73	0.010495
-10	20.04	0.010660
0	17.37	0.009239
10	17.39	0.009250
20	19.06	0.010138
30	19.59	0.010420
40	16.89	0.008984
50	25.86	0.013755

Frequency Error Against Voltage for GPRS1900 band (Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	19.02	0.010117	
3.85	19.82	0.010543	
4.2	20.93	0.011133	

Frequency Error Against Temperature for GPRS1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	17.68	0.009404	
-20	18.03	0.009590	
-10	17.28	0.009191	
0	17.31	0.009207	
10	17.16	0.009128	
20	16.08	0.008553	
30	16.4	0.008723	
40	18.38	0.009777	
50	22.87	0.012165	

Version.1.2 Page 34 of 43



Frequency Error Against Voltage for EGPRS1900 band (Mid CH)				
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)				
3.4 17.99		0.009569		
3.85 18.94 0.010074				
4.2	18.09	0.009622		

Frequency Error Against Temperature for EGPRS1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	21.32	0.011340	
-20	18.49	0.009835	
-10	17.36	0.009234	
0	18.7	0.009947	
10	20.41	0.010856	
20	20.26	0.010777	
30	20.97	0.011154	
40	18.45	0.009814	
50	23.15	0.012314	

## 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.

Version.1.2 Page 35 of 43



Frequency Error Against Voltage for UMTS band II (Mid CH)					
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)					
3.4 -16.09		-0.008559			
3.85	-19.2	-0.010213			
4.2	-19.97	-0.010622			

Frequency Error Against Temperature for UMTS band II (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-16.74	-0.008904	
-20	-15.73	-0.008367	
-10	-16.59	-0.008824	
0	-18.48	-0.009830	
10	-16.15	-0.008590	
20	-15.99	-0.008505	
30	-15.16	-0.008064	
40	-17.71	-0.009420	
50	-21.98	-0.011691	

Frequency Error Against Voltage for UMTS band IV(Mid CH)				
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)				
3.4 -17.76 -0.010252				
3.85 -15.78 -0.009109				
4.2	-17.64	-0.010182		

Frequency Error Against Temperature for UMTS band IV (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-8.23	-0.004751	
-20	-10.23	-0.005905	
-10	-13.84	-0.007989	
0	-10.42	-0.006015	
10	-14.88	-0.008589	
20	-15.04	-0.008682	
30	-15.18	-0.008762	
40	-19.6	-0.011314	
50	-18.84	-0.010875	

## 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.

Version.1.2 Page 36 of 43

#### 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%.

Version.1.2 Page 37 of 43



EUT:	Smartphone	Model No.:	MAX 3
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

7.5.6 Test Results

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Version.1.2 Page 38 of 43

## 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.

Report No.: S21090805203005

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.

Version.1.2 Page 39 of 43



	Certificate #4298.01	Report	NO 32 109060320
6.6 Tes	t Results		
:UT:	Smartphone	Model No.:	MAX 3
emperatur	e: 20 ℃	Relative Humidity:	48%
est Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,	Test By:	Allen Liu
esults: PA			
ne Test da	ta reference attachment:		
10 1001 44	a reference attachment.		

Version.1.2 Page 40 of 43

## 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.

Report No.: S21090805203005

### 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:	Smartphone	Model No.:	MAX 3
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:

Version.1.2 Page 41 of 43

# 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.

Report No.: S21090805203005

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.

Version.1.2 Page 42 of 43



EUT:	Smartphone	Model No.:	MAX 3
Temperature:	120 7	Relative Humidity:	48%
	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900,	Test By:	Allen Liu

Test By:

UMTS band II/ UMTS band V/ UMTS band IV, Results: PASS

**Test Results** 

7.8.6

The Test data reference attachment:

**END OF REPORT** 

Version.1.2 Page 43 of 43