

# FCC RADIO TEST REPORT FCC ID: QRP-SP-027

**Product: Mobile Phone** 

Trade Mark: AZUMI

Model No.: V65+

Family Model: V65

Report No.: S22012500601004

**Issue Date:** Feb 23, 2022

# **Prepared for**

Azumi S.A

Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panama, Panama

# **Prepared by**

Shenzhen NTEK Testing Technology Co., Ltd.

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#### TEST RESULT CERTIFICATION

Applicant's name:	Azumi S.A	
Address:	Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso of. 16-01, Marbella, Ciudad de Panama, Panama	
Manufacturer's Name:	AZUMI HK LTD	
Address:	FLAT/RM 18 BLK 1 14/F GOLDEN INDUSTRIAL BUILDING 16-26 KWAI TAK STREET KWAI CHUNG, HK	
Product description		
Product name:	Mobile Phone	
Model and/or type reference:	V65+	
Family Model:	V65	

#### 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	Commissed				
FCC KDB 971168 D01 Power Meas License Digital Systems v03	Complied				
ANSI C63.26:2015					

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

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

Date of Test	:	Jan 26. 2022 ~ Feb 21, 2022
Testing Engineer	:	Buen lin
		(Allen Liu)
		Alex
Authorized Signatory	:	C
	•	(Alex Li)

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# SUMMARY OF TEST RESULTS

FCC Part22H / FCC Part24E / FCC Part 27 & ANSI C63.26-2015						
FCC Rule	Test Item	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.

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#### 3 FACILITIES AND ACCREDITATIONS

#### 3.1 FACILITIES

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

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

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

#### 3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The 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
1	Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB

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#### **GENERAL DESCRIPTION OF EUT** Product Feature and Specification Mobile Phone Equipment **AZUMI** Trade Mark QRP-SP-027 FCC ID V65+ Model No. V65 Family Model Model Difference All the model are the same circuit and RF module, except the memory □ 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: □ UMTS-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. PIFA Antenna Antenna Type Antenna Gain 0.59dBi INPUT: AC 110-240V~50-60Hz 0.3A Adapter OUTPUT: DC 5.0V---1.5A Battery DC 3.8V, 3950mAh Power supply DC 3.8V from battery or DC 5V from Adapter. **HW Version** AZUMI V65+ CLARO V001 AZUMI V65+ CLARO V001 20220223 SW Version

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

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#### **Revision History**

Report No.	Version	Description	Issued Date
S22012500601004	Rev.01	Initial issue of report	Feb 23, 2022

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#### **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, HSUPA band V, HSDPA band

IV, HSUPA band IV frequency 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:

rect requestey and enameter								
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		

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# Certificate #4298.01 **SETUP OF EQUIPMENT UNDER TEST** 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM For Radiated Test Cases **EUT** For Conducted Output Power Measurement **Attenuator** Instrument For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission System Simulator C3 Power Divider C2 Spectrum Analyzer Attenuator -**EUT** C4 For Frequency Stability Measurement C6 C5 DC Power **EUT Attenuator** Instrument Source Thermal Chamber

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#### **6.2 SUPPORT EQUIPMENT**

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

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	2021.07.01	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	2021.07.01	2022.06.30	1 year
7	Amplifier	EM	EM-30180	060538	2021.07.01	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	2021.07.01	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.

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#### 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.

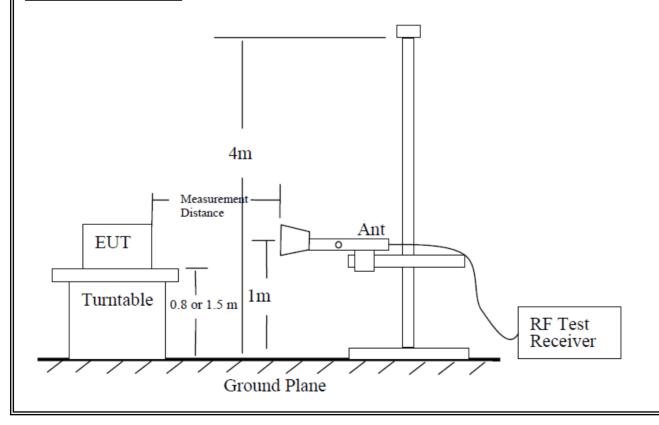
#### 7.1.3 Measuring Instruments

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

#### 7.1.4 Test Configuration

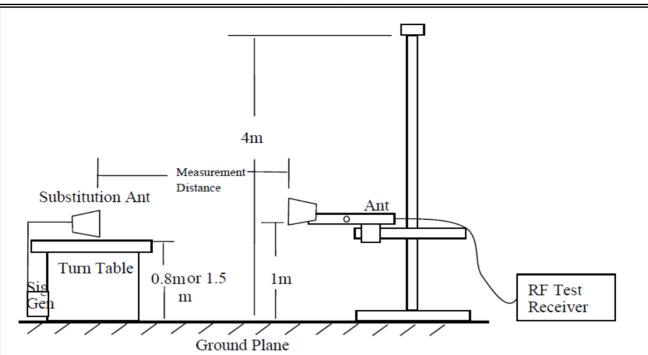
According to the ANSI/TIA-603-E-2016 test method, The Receiver or Spectrum was scanned from 9 KHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz The resolution bandwidth is set as outlined in Part 24.238,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



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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<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.

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#### 7.1.6 Test Results

EUT:	Mobile Phone	Model No.:	V65+
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

Radiated Spurious Emission										
			GSI	<i>l</i> 850						
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)				
		Test Re	sults for Cha	annel 128/82	4.2 MHz	•				
1648.4	-52.96	2.80	27.50	-28.26	-13	-15.26	Vertical			
1648.4	-45.89	2.80	27.50	-21.19	-13	-8.19	Horizontal			
2472.6	-52.24	2.91	27.80	-27.35	-13	-14.35	Vertical			
2472.6	-45.85	2.91	27.80	-20.96	-13	-7.96	Horizontal			
3296.8	-52.89	4.02	29.87	-27.04	-13	-14.04	Vertical			
3296.8	-45.82	4.02	29.87	-19.97	-13	-6.97	Horizontal			
131.2	-53.86	1.35	17.77	-37.44	-13	-24.44	Vertical			
116.8	-48.51	1.77	17.83	-32.45	-13	-19.45	Horizontal			
Test Results for Channel 190/836.6 MHz										
1673.2	-48.35	2.80	27.48	-23.67	-13	-10.67	Vertical			
1673.2	-47.05	2.80	27.48	-22.37	-13	-9.37	Horizontal			
2509.8	-45.37	2.91	27.70	-20.58	-13	-7.58	Vertical			
2509.8	-49.11	2.91	27.70	-24.32	-13	-11.32	Horizontal			
3346.4	-47.22	4.02	29.82	-21.42	-13	-8.42	Vertical			
3346.4	-50.67	4.02	29.82	-24.87	-13	-11.87	Horizontal			
208.8	-47.22	1.44	15.26	-33.41	-13	-20.41	Vertical			
131.6	-51.98	1.51	17.23	-36.26	-13	-23.26	Horizontal			
		Test Re	sults for Cha	annel 251/84	8.8 MHz					
1697.6	-51.46	2.80	27.42	-26.84	-13	-13.84	Vertical			
1697.6	-50.8	2.80	27.42	-26.18	-13	-13.18	Horizontal			
2546.4	-50.2	2.91	27.68	-25.43	-13	-12.43	Vertical			
2546.4	-51.77	2.91	27.68	-27.00	-13	-14.00	Horizontal			
3395.2	-52.02	4.02	29.80	-26.24	-13	-13.24	Vertical			
3395.2	-50.51	4.02	29.80	-24.73	-13	-11.73	Horizontal			
95.0	-48.45	1.74	16.46	-33.73	-13	-20.73	Vertical			
208.3	-52.72	1.68	16.21	-38.19	-13	-25.19	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-Limit

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			GPR	S 850					
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)			
		Test Re	sults for Cha	annel 128/82	4.2 MHz				
1648.4	-46.82	2.80	27.50	-22.12	-13	-9.12	Vertical		
1648.4	-52.6	2.80	27.50	-27.90	-13	-14.90	Horizontal		
2472.6	-47.71	2.91	27.80	-22.82	-13	-9.82	Vertical		
2472.6	-49.03	2.91	27.80	-24.14	-13	-11.14	Horizontal		
3296.8	-49.57	4.02	29.87	-23.72	-13	-10.72	Vertical		
3296.8	-44.81	4.02	29.87	-18.96	-13	-5.96	Horizontal		
154.8	-53.73	1.35	16.91	-38.17	-13	-25.17	Vertical		
238.4	-50.34	1.59	17.39	-34.53	-13	-21.53	Horizontal		
	Test Results for Channel 190/836.6 MHz								
1673.2	-50.4	2.80	27.48	-25.72	-13	-12.72	Vertical		
1673.2	-48.72	2.80	27.48	-24.04	-13	-11.04	Horizontal		
2509.8	-45.46	2.91	27.70	-20.67	-13	-7.67	Vertical		
2509.8	-50.9	2.91	27.70	-26.11	-13	-13.11	Horizontal		
3346.4	-49.12	4.02	29.82	-23.32	-13	-10.32	Vertical		
3346.4	-49.89	4.02	29.82	-24.09	-13	-11.09	Horizontal		
110.1	-44.52	1.36	17.36	-28.52	-13	-15.52	Vertical		
148.2	-50.95	1.32	15.19	-37.09	-13	-24.09	Horizontal		
		Test Re	sults for Cha	annel 251/84	8.8 MHz				
1697.6	-45.21	2.80	27.42	-20.59	-13	-7.59	Vertical		
1697.6	-52.91	2.80	27.42	-28.29	-13	-15.29	Horizontal		
2546.4	-53.2	2.91	27.68	-28.43	-13	-15.43	Vertical		
2546.4	-51.59	2.91	27.68	-26.82	-13	-13.82	Horizontal		
3395.2	-44.81	4.02	29.80	-19.03	-13	-6.03	Vertical		
3395.2	-52.65	4.02	29.80	-26.87	-13	-13.87	Horizontal		
198.1	-45.46	1.46	17.68	-29.24	-13	-16.24	Vertical		
220.2	-45.38	1.31	15.79	-30.90	-13	-17.90	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-Limit

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			EGPI	RS 850				
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)		
		Test Re	sults for Cha	annel 128/82	4.2 MHz			
1648.4	-51.66	2.80	27.50	-26.96	-13	-13.96	Vertical	
1648.4	-53.78	2.80	27.50	-29.08	-13	-16.08	Horizontal	
2472.6	-45.72	2.91	27.80	-20.83	-13	-7.83	Vertical	
2472.6	-52.51	2.91	27.80	-27.62	-13	-14.62	Horizontal	
3296.8	-44.95	4.02	29.87	-19.10	-13	-6.10	Vertical	
3296.8	-45.06	4.02	29.87	-19.21	-13	-6.21	Horizontal	
116.4	-44.23	1.69	16.60	-29.32	-13	-16.32	Vertical	
166.1	-52.58	1.44	17.78	-36.23	-13	-23.23	Horizontal	
Test Results for Channel 190/836.6 MHz								
1673.2	-52.47	2.80	27.48	-27.79	-13	-14.79	Vertical	
1673.2	-44.63	2.80	27.48	-19.95	-13	-6.95	Horizontal	
2509.8	-49.28	2.91	27.70	-24.49	-13	-11.49	Vertical	
2509.8	-50.4	2.91	27.70	-25.61	-13	-12.61	Horizontal	
3346.4	-50.65	4.02	29.82	-24.85	-13	-11.85	Vertical	
3346.4	-45.45	4.02	29.82	-19.65	-13	-6.65	Horizontal	
160.1	-51.87	1.54	16.14	-37.28	-13	-24.28	Vertical	
246.5	-45.38	1.31	17.24	-29.45	-13	-16.45	Horizontal	
		Test Re	sults for Cha	annel 251/84	8.8 MHz			
1697.6	-52.04	2.80	27.42	-27.42	-13	-14.42	Vertical	
1697.6	-49.25	2.80	27.42	-24.63	-13	-11.63	Horizontal	
2546.4	-44.96	2.91	27.68	-20.19	-13	-7.19	Vertical	
2546.4	-45.6	2.91	27.68	-20.83	-13	-7.83	Horizontal	
3395.2	-45.77	4.02	29.80	-19.99	-13	-6.99	Vertical	
3395.2	-49.92	4.02	29.80	-24.14	-13	-11.14	Horizontal	
272.1	-48.92	1.73	15.96	-34.69	-13	-21.69	Vertical	
163.9	-49.14	1.35	17.53	-32.96	-13	-19.96	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-Limit

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			WCDMA	A Band V			WCDMA Band V										
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity										
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)											
		Test Re	sults for Cha	nnel 4233/8	46.6MHz												
1693.2	-49.46	2.80	27.50	-24.76	-13	-11.76	Vertical										
1693.2	-47.7	2.80	27.50	-23.00	-13	-10.00	Horizontal										
2539.8	-50.48	2.91	27.80	-25.59	-13	-12.59	Vertical										
2539.8	-53.22	2.91	27.80	-28.33	-13	-15.33	Horizontal										
3386.4	-53.52	4.02	29.87	-27.67	-13	-14.67	Vertical										
3386.4	-51.19	4.02	29.87	-25.34	-13	-12.34	Horizontal										
264.3	-46.86	1.75	15.49	-33.12	-13	-20.12	Vertical										
209.9	-46.45	1.37	16.58	-31.24	-13	-18.24	Horizontal										
	Test Results for Channel 4182/836.4MHz																
1672.8	-47.44	2.80	27.48	-22.76	-13	-9.76	Vertical										
1672.8	-52.13	2.80	27.48	-27.45	-13	-14.45	Horizontal										
2509.2	-45.3	2.91	27.70	-20.51	-13	-7.51	Vertical										
2509.2	-47.69	2.91	27.70	-22.90	-13	-9.90	Horizontal										
3345.6	-46.6	4.02	29.82	-20.80	-13	-7.80	Vertical										
3345.6	-46.05	4.02	29.82	-20.25	-13	-7.25	Horizontal										
255.8	-47.57	1.68	17.84	-31.41	-13	-18.41	Vertical										
129.8	-46.03	1.49	16.34	-31.17	-13	-18.17	Horizontal										
		Test Re	sults for Cha	nnel 4132/8	26.4MHz												
1652.8	-45.03	2.80	27.42	-20.41	-13	-7.41	Vertical										
1652.8	-44.94	2.80	27.42	-20.32	-13	-7.32	Horizontal										
2479.2	-50.28	2.91	27.68	-25.51	-13	-12.51	Vertical										
2479.2	-50.36	2.91	27.68	-25.59	-13	-12.59	Horizontal										
3305.6	-53.76	4.02	29.80	-27.98	-13	-14.98	Vertical										
3305.6	-45.29	4.02	29.80	-19.51	-13	-6.51	Horizontal										
135.6	-51.98	1.36	17.52	-35.82	-13	-22.82	Vertical										
190.6	-47.35	1.63	15.02	-33.96	-13	-20.96	Horizontal										

#### Remark:

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

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			GSM	1900				
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)		
		Test Re	sults for Cha	nnel 512/185	50.2MHz			
3700.4	-44.4	4.04	33.51	-14.93	-13	-1.93	Vertical	
3700.4	-47.46	4.04	33.51	-17.99	-13	-4.99	Horizontal	
5550.6	-45.55	5.24	35.84	-14.95	-13	-1.95	Vertical	
5550.6	-52.05	5.24	35.84	-21.45	-13	-8.45	Horizontal	
105.3	-52.57	1.40	15.14	-38.83	-13	-25.83	Vertical	
247.6	-47.97	1.45	17.54	-31.88	-13	-18.88	Horizontal	
Test Results for Channel 661/1880.0MHz								
3760	-47.1	4.04	33.56	-17.58	-13	-4.58	Vertical	
3760	-47.75	4.04	33.56	-18.23	-13	-5.23	Horizontal	
5640	-53.97	5.24	35.91	-23.30	-13	-10.30	Vertical	
5640	-47.56	5.24	35.91	-16.89	-13	-3.89	Horizontal	
187.9	-50.03	1.74	16.40	-35.37	-13	-22.37	Vertical	
86.7	-44.94	1.42	15.72	-30.63	-13	-17.63	Horizontal	
		Test Re	sults for Cha	nnel 810/190	)9.8MHz			
3819.6	-53.79	4.04	34.00	-23.83	-13	-10.83	Vertical	
3819.6	-50.15	4.04	34.00	-20.19	-13	-7.19	Horizontal	
5729.4	-51.67	5.24	36.04	-20.87	-13	-7.87	Vertical	
5729.4	-50.65	5.24	36.04	-19.85	-13	-6.85	Horizontal	
217.3	-51.49	1.67	17.51	-35.65	-13	-22.65	Vertical	
112.7	-48.83	1.58	17.73	-32.68	-13	-19.68	Horizontal	

#### Remark:

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

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	GPRS 1900									
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)				
	•	Test Re	sults for Cha	nnel 512/18	50.2MHz		•			
3700.4	-45	4.04	33.51	-15.53	-13	-2.53	Vertical			
3700.4	-46.63	4.04	33.51	-17.16	-13	-4.16	Horizontal			
5550.6	-53.03	5.24	35.84	-22.43	-13	-9.43	Vertical			
5550.6	-51.58	5.24	35.84	-20.98	-13	-7.98	Horizontal			
249.9	-53.34	1.66	17.06	-37.95	-13	-24.95	Vertical			
237.9	-51.57	1.34	15.54	-37.37	-13	-24.37	Horizontal			
	Test Results for Channel 661/1880.0MHz									
3760	-49.1	4.04	33.56	-19.58	-13	-6.58	Vertical			
3760	-49.78	4.04	33.56	-20.26	-13	-7.26	Horizontal			
5640	-49.58	5.24	35.91	-18.91	-13	-5.91	Vertical			
5640	-49.76	5.24	35.91	-19.09	-13	-6.09	Horizontal			
168.5	-47.39	1.33	16.18	-32.54	-13	-19.54	Vertical			
249.4	-52.42	1.60	17.99	-36.03	-13	-23.03	Horizontal			
		Test Re	sults for Cha	nnel 810/19	09.8MHz					
3819.6	-46.94	4.04	34.00	-16.98	-13	-3.98	Vertical			
3819.6	-51.97	4.04	34.00	-22.01	-13	-9.01	Horizontal			
5729.4	-49.51	5.24	36.04	-18.71	-13	-5.71	Vertical			
5729.4	-48.21	5.24	36.04	-17.41	-13	-4.41	Horizontal			
206.6	-50.59	1.65	17.27	-34.98	-13	-21.98	Vertical			
227.8	-47.44	1.39	15.49	-33.35	-13	-20.35	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-Limit

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			EGPR	S 1900					
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)			
		Test Re	esults for Char	nnel 512/185	0.2MHz				
3700.4	-50.72	4.04	33.51	-21.25	-13	-8.25	Vertical		
3700.4	-45.31	4.04	33.51	-15.84	-13	-2.84	Horizontal		
5550.6	-46.39	5.24	35.84	-15.79	-13	-2.79	Vertical		
5550.6	-50.24	5.24	35.84	-19.64	-13	-6.64	Horizontal		
224.9	-47.22	1.41	17.87	-30.76	-13	-17.76	Vertical		
105.4	-53.9	1.47	17.45	-37.93	-13	-24.93	Horizontal		
	Test Results for Channel 661/1880.0MHz								
3760	-44.8	4.04	33.56	-15.28	-13	-2.28	Vertical		
3760	-53.58	4.04	33.56	-24.06	-13	-11.06	Horizontal		
5640	-53.68	5.24	35.91	-23.01	-13	-10.01	Vertical		
5640	-50.27	5.24	35.91	-19.60	-13	-6.60	Horizontal		
110.0	-44.28	1.35	15.31	-30.33	-13	-17.33	Vertical		
231.5	-52.28	1.48	17.05	-36.71	-13	-23.71	Horizontal		
		Test Re	esults for Char	nnel 810/190	9.8MHz				
3819.6	-44.88	4.04	34.00	-14.92	-13	-1.92	Vertical		
3819.6	-44.36	4.04	34.00	-14.40	-13	-1.40	Horizontal		
5729.4	-50.54	5.24	36.04	-19.74	-13	-6.74	Vertical		
5729.4	-53.2	5.24	36.04	-22.40	-13	-9.40	Horizontal		
156.0	-52.28	1.49	17.71	-36.06	-13	-23.06	Vertical		
144.9	-45.52	1.55	15.08	-31.99	-13	-18.99	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-Limit

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			WCDMA	Band II			
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
		Test Re	sults for Chan	nel 9262/18	52.4MHz		
3704.8	-52.59	4.04	33.51	-23.12	-13	-10.12	Vertical
3704.8	-53.39	4.04	33.51	-23.92	-13	-10.92	Horizontal
5557.2	-51.51	5.24	35.84	-20.91	-13	-7.91	Vertical
5557.2	-50.19	5.24	35.84	-19.59	-13	-6.59	Horizontal
91.6	-50.19	1.66	17.47	-34.38	-13	-21.38	Vertical
104.4	-49.21	1.38	16.18	-34.41	-13	-21.41	Horizontal
		Test R	esults for Cha	nnel 9400/18	380MHz		
3760	-52.37	4.04	33.56	-22.85	-13	-9.85	Vertical
3760	-45.44	4.04	33.56	-15.92	-13	-2.92	Horizontal
5640	-48.72	5.24	35.91	-18.05	-13	-5.05	Vertical
5640	-50.03	5.24	35.91	-19.36	-13	-6.36	Horizontal
121.2	-45.19	1.38	16.34	-30.23	-13	-17.23	Vertical
167.8	-49.38	1.34	16.03	-34.69	-13	-21.69	Horizontal
		Test Re	sults for Chan	nel 9538/19	07.6MHz		
3815.2	-53.48	4.04	34.00	-23.52	-13	-10.52	Vertical
3815.2	-44.17	4.04	34.00	-14.21	-13	-1.21	Horizontal
5722.8	-45.63	5.24	36.04	-14.83	-13	-1.83	Vertical
5722.8	-47.95	5.24	36.04	-17.15	-13	-4.15	Horizontal
135.9	-44.13	1.51	15.52	-30.12	-13	-17.12	Vertical
247.5	-48.49	1.32	17.18	-32.64	-13	-19.64	Horizontal

#### Remark:

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

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WCDMA Band $\mathit{IV}$										
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)				
		Test Re	sults for Chan	nel 1312/17	12.4MHz					
3424.8	-46.48	4.02	29.80	-20.70	-13	-7.70	Vertical			
3424.8	-53.76	4.02	29.80	-27.98	-13	-14.98	Horizontal			
5137.2	-53.78	5.24	35.84	-23.18	-13	-10.18	Vertical			
5137.2	-45.38	5.24	35.84	-14.78	-13	-1.78	Horizontal			
81.8	-49.64	1.66	15.00	-36.30	-13	-23.30	Vertical			
115.1	-50.4	1.58	16.20	-35.78	-13	-22.78	Horizontal			
Test Results for Channel 1412/1732.4MHz										
3464.8	-46.69	4.03	30.00	-20.72	-13	-7.72	Vertical			
3464.8	-47.77	4.03	30.00	-21.80	-13	-8.80	Horizontal			
5197.2	-47.43	5.25	35.86	-16.82	-13	-3.82	Vertical			
5197.2	-50.84	5.25	35.86	-20.23	-13	-7.23	Horizontal			
246.8	-48.56	1.55	16.39	-33.71	-13	-20.71	Vertical			
101.0	-44.74	1.32	16.25	-29.81	-13	-16.81	Horizontal			
		Test Re	sults for Chan	nel 1513/17	52.6MHz					
3505.2	-44.96	2.91	27.68	-20.19	-13	-7.19	Vertical			
3505.2	-51.47	2.91	27.68	-26.70	-13	-13.70	Horizontal			
5257.8	-53.4	5.26	35.86	-22.80	-13	-9.80	Vertical			
5257.8	-47.44	5.26	35.86	-16.84	-13	-3.84	Horizontal			
199.0	-44.49	1.33	15.78	-30.04	-13	-17.04	Vertical			
193.1	-46.8	1.47	17.42	-30.85	-13	-17.85	Horizontal			

#### Remark:

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

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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.: S22012500601004

#### 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.

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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 specif	ani analyzor 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:	Mobile Phone	Model No.:	V65+
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)	(dBi)	(dB)	(dBm)	(W)	
824.2	Н	13.42	2.11	23.84	2.15	33.00	1.995262	
836.4	Н	14.14	2.13	23.15	2.15	33.01	1.999862	
848.8	Н	14.85	2.13	23.06	2.15	33.63	2.306747	
824.2	V	14.49	2.11	23.11	2.15	33.34	2.157744	
836.4	V	14.04	2.13	23.07	2.15	32.83	1.918669	
848.8	V	14.55	2.13	23.25	2.15	33.52	2.249055	

	Radiated Power (ERP) for GPRS850						
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP
(MHz)		(dBm)	(dB)	(dBi)	(dB)	(dBm)	(W)
824.2	Н	13.45	2.11	23.84	2.15	33.03	2.009093
836.4	Н	14.01	2.13	23.15	2.15	32.88	1.940886
848.8	Н	14.63	2.13	23.06	2.15	33.41	2.192805
824.2	V	14.29	2.11	23.11	2.15	33.14	2.060630
836.4	V	14.61	2.13	23.07	2.15	33.40	2.187762
848.8	V	13.81	2.13	23.25	2.15	32.78	1.896706

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	Radiated Power (ERP) for EGPRS850							
Frequency	Dalarination	SG	Pcl	Ga Antenna	Correction	ERP	ERP	
	Polarization	Level		Gain				
(MHz)		(dBm)	(dB)	(dBi)	(dB)	(dBm)	(W)	
824.2	Н	9.33	2.11	23.84	2.15	28.91	0.778037	
836.4	Н	10.33	2.13	23.15	2.15	29.20	0.831764	
848.8	Н	9.58	2.13	23.06	2.15	28.36	0.685488	
824.2	V	10.77	2.11	23.11	2.15	29.62	0.916220	
836.4	V	9.89	2.13	23.07	2.15	28.68	0.737904	
848.8	V	10.45	2.13	23.25	2.15	29.42	0.874984	

	Radiated Power (ERP) for UMTS band V							
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP	
(MHz)		(dBm)	(dB)	(dBi)	(dB)	(dBm)	(W)	
826.4	Н	5.34	2.11	23.84	2.15	24.92	0.310456	
836.4	Н	5.96	2.13	23.15	2.15	24.83	0.304089	
846.6	Н	5.78	2.13	23.06	2.15	24.56	0.285759	
826.4	V	5.24	2.11	23.11	2.15	24.09	0.256448	
836.4	V	5.73	2.13	23.07	2.15	24.52	0.283139	
846.6	V	5.88	2.13	23.25	2.15	24.85	0.305492	

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	Rad	iated Power	(E.I.R.P) f	or GSM1900	)	
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dBi)	(dBm)	(W)
1850.2	Н	8.21	3.76	28.24	32.69	1.857804
1880	Н	8.33	3.91	28.22	32.64	1.836538
1909.8	Н	7.95	3.93	28.20	32.22	1.667247
1850.2	V	9.16	3.76	27.32	32.72	1.870682
1880	V	8.91	3.91	27.33	32.33	1.710015
1909.8	V	9.42	3.93	27.31	32.80	1.905461

	Radiated Power (E.I.R.P) for GPRS1900						
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP	
		Level		Gairi			
(MHz)		(dBm)	(dB)	(dBi)	(dBm)	(W)	
1850.2	Н	7.43	3.76	28.24	31.91	1.552387	
1880	Н	8.30	3.91	28.22	32.61	1.823896	
1909.8	Н	8.01	3.93	28.20	32.28	1.690441	
1850.2	V	9.25	3.76	27.32	32.81	1.909853	
1880	V	8.79	3.91	27.33	32.21	1.663413	
1909.8	V	9.21	3.93	27.31	32.59	1.815516	

	Radiated Power (E.I.R.P) for EGPRS1900						
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP	
(MHz)		(dBm)	(dB)	(dBi)	(dBm)	(W)	
1850.2	Н	3.82	3.76	28.24	28.30	0.676083	
1880	Н	4.07	3.91	28.22	28.38	0.688652	
1909.8	Н	4.02	3.93	28.20	28.29	0.674528	
1850.2	V	5.25	3.76	27.32	28.81	0.760326	
1880	V	5.25	3.91	27.33	28.67	0.736207	
1909.8	V	5.36	3.93	27.31	28.74	0.748170	

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	Radiat	ted Power (	E.I.R.P) for	UMTS band	ll b	
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dBi)	(dBm)	(W)
1852.4	Н	2.18	3.76	28.24	26.66	0.463447
1880	Н	1.04	3.91	28.22	25.35	0.342768
1907.6	Н	0.77	3.93	28.20	25.04	0.319154
1852.4	V	2.67	3.76	27.32	26.23	0.419759
1880	V	3.28	3.91	27.33	26.70	0.467735
1907.6	V	1.81	3.93	27.31	25.19	0.330370

	Radiated Power (E.I.R.P) for UMTS band IV					
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dBi)	(dBm)	(W)
1712.4	Н	0.06	3.13	27.63	24.56	0.285759
1732.4	Н	0.26	3.27	27.61	24.60	0.288403
1752.6	Н	0.36	3.30	27.60	24.66	0.292415
1712.4	V	-0.14	3.13	27.63	24.36	0.272898
1732.4	V	0.36	3.27	27.61	24.70	0.295121
1752.6	V	0.20	3.30	27.60	24.50	0.281838

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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

#### 7.3.2 Conformance Limit

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

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

#### 7.3.3 Measuring Instruments

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

#### 7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.3.5 Test Procedure

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

Set EUT at maximum average power by base station simulator.

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

Set VBW ≥ 3 × RBW.

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

Sweep time = auto.

Detector = RMS (power averaging).

Set sweep trigger to "free run".

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

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

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

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

Measure and record the results in the test report.

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#### 7.3.6 Test Results

EUT:	Mobile Phone	Model No.:	V65+
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  $\pm 0.00025\%$  ( $\pm 2.5$ ppm) of the center frequency.

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#### 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:	Mobile Phone	Model No.:	V65+
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	9.69	0.011585	
3.8	7.21	0.008620	
4.2	6.89	0.008238	

Frequency Error Against Temperature for GSM 850 band(Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	4.55	0.005440
-20	8.98	0.010736
-10	7.99	0.009553
0	6.46	0.007724
10	9.92	0.011860
20	6.12	0.007317
30	6.47	0.007736
40	8.41	0.010055
50	10.95	0.013092

Frequency Error Against Voltage for GPRS850 band(Mid CH)		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.4	7.59	0.009075
3.8	8.79	0.010509
4.2	8.58	0.010258

Frequency Error Against Temperature for GPRS850 band(Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	4.55	0.005440	
-20	7.8	0.009326	
-10	8.55	0.010222	
0	6.51	0.007783	
10	7.48	0.008943	
20	8.86	0.010593	
30	6.64	0.007939	
40	9.77	0.011681	
50	13.89	0.016607	

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Frequency Error Against Voltage for EGPRS850 band(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	7.65	0.009146	
3.8	7.1	0.008489	
4.2	6.11	0.007305	

Frequency Error Against Temperature for EGPRS850 band(Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	7.04	0.008417	
-20	7.01	0.008381	
-10	7.14	0.008537	
0	6.7	0.008011	
10	7.84	0.009374	
20	6.22	0.007437	
30	6.38	0.007628	
40	7.72	0.009230	
50	10.11	0.012088	

#### Note:

- 1. Normal Voltage = 3.8V; 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	-19.75	-0.023613
3.8	-16.37	-0.019572
4.2	-15.63	-0.018687

Frequency Error Against Temperature for UMTS band V (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-16.15	-0.019309	
-20	-15.84	-0.018938	
-10	-15.76	-0.018843	
0	-17.92	-0.021425	
10	-15.35	-0.018352	
20	-18.54	-0.022166	
30	-15.54	-0.018580	
40	-16.39	-0.019596	
50	-21.37	-0.025550	

#### Note:

- 1. Normal Voltage = 3.8V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Frequency Error Against Voltage for PCS 1900 band (Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	16.01	0.008516	
3.8	17.95	0.009548	
4.2	17.35	0.009229	

Frequency Error Against Temperature for PCS 1900 band (Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	20.28	0.010787
-20	16.53	0.008793
-10	20.69	0.011005
0	20.94	0.011138
10	18.64	0.009915
20	20.03	0.010654
30	18.11	0.009633
40	17.1	0.009096
50	23.63	0.012569

Frequency Error Against Voltage for GPRS1900 band (Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	19.45	0.010346	
3.8	17.64	0.009383	
4.2	19.28	0.010255	

Frequency Error Against Temperature for GPRS1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	17.26	0.009181	
-20	18.89	0.010048	
-10	17.84	0.009489	
0	20.9	0.011117	
10	16.29	0.008665	
20	18.78	0.009989	
30	16.3	0.008670	
40	16.09	0.008559	
50	19.48	0.010362	

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 Frequency Error Against Voltage for EGPRS1900 band (Mid CH)

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

 3.4
 19.59
 0.010420

 3.8
 18.11
 0.009633

 4.2
 20.74
 0.011032

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Frequency Error Against Temperature for EGPRS1900 band (Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	22.65	0.012048		
-20	17.47	0.009293		
-10	20.16	0.010723		
0	17.35	0.009229		
10	19.61	0.010431		
20	20.99	0.011165		
30	17.02	0.009053		
40	17.46	0.009287		
50	20.27	0.010782		

#### Note:

- 1. Normal Voltage = 3.8V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Frequ	uency Error Against Voltage for UN	/ITS band II (Mid CH)
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.4	-17.44	-0.009277
3.8	-17.57	-0.009346
4.2	-16.9	-0.008989

Frequency Error Against Temperature for UMTS band II (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-18.84	-0.010021	
-20	-19.89	-0.010580	
-10	-18.88	-0.010043	
0	-16.68	-0.008872	
10	-17.39	-0.009250	
20	-19.83	-0.010548	
30	-18.41	-0.009793	
40	-16.45	-0.008750	
50	-21.11	-0.011229	

Frequ	uency Error Against Voltage for UM	ITS band IV(Mid CH)
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.4	-18.11	-0.010454
3.8	3.8 -14.53 -0.008387	
4.2	-17.48	-0.010090

Frequency Error Against Temperature for UMTS band IV (Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	-8.38	-0.004837		
-20	-12.82	-0.007400		
-10	-13.69	-0.007902		
0	-8.64	-0.004987		
10	-16.2	-0.009351		
20	-16.5	-0.009524		
30	-17.09	-0.009865		
40	-19.03	-0.010985		
50	-21.92	-0.012653		

#### Note:

- 1. Normal Voltage = 3.8V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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#### 7.5 PEAK-TO-AVERAGE RATIO

#### 7.5.1 **Applicable Standard**

According to 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.

#### Test Procedure 7.5.5

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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EUT:	Mobile Phone	Model No.:	V65+
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:

**Test Results** 

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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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Mobile PhoneModel No.:V65+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	: Mobile Phone Model No.: V65+ perature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  ults: PASS	T: Mobile Phone Model No.: V65+  Inperature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  Sults: PASS	Mobile Phone Model No.: V65+  perature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  ults: PASS	T: Mobile Phone Model No.: V65+  mperature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850,  gt Mode: GSM/GPRS/EGPRS 1900, Test By: Allen Liu	T: Mobile Phone Model No.: V65+  Inperature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  Sults: PASS		Certificate #4298.01	. top on t	10 0220120
20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  S	perature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  Ults: PASS  Relative Humidity: 48%  Test By: Allen Liu	nperature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  sults: PASS	perature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  ults: PASS	mperature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  sults: PASS	mperature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  Sults: PASS	.6 Test F	Results		
20 ℃ Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  S	perature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  Ults: PASS  Relative Humidity: 48%  Test By: Allen Liu	nperature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  sults: PASS	perature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  ults: PASS	mperature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  sults: PASS	nperature: 20 °C Relative Humidity: 48%  GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  sults: PASS	UT:	Mobile Phone	Model No.:	V65+
GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV, S	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV,  ults: PASS  GSM/GPRS/EGPRS 1900, Test By: Allen Liu	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV, sults: PASS	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV, Ults: PASS	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV, sults: PASS	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV, Sults: PASS				
S	ults: PASS	sults: PASS	ults: PASS	sults: PASS	sults: PASS	st Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900,		
						ults: PAS			
						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:	Mobile Phone	Model No.:	V65+
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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#### 7.8 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.: S22012500601004

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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EUT:	Mobile Phone	Model No.:	V65+
Temperature:	12() (*	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

7.8.6

The Test data reference attachment:

**Test Results** 

**END OF REPORT** 

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