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FCC Test Report (3G)

FCC ID : 2AIV5CWELL001

Applicant : CWELL INTERNATIONAL CO.,LTD.

Room 2810-2814, Building A, Qunxing Plaza, Huaqiang North Rd,

Futian District, Shenzhen, 518031, China.

Sample Description

Product Name : Rugged Smartphone

Model No. : HG06

Serial No. : N/A

Trademark : AngelLira

Receipt Date : 2016-06-26

Test Date : 2016-06-27 to 2016-07-05

Issue Date : 2016-07-06

Test Standard(s) : FCC PART 2; FCC PART 22H; FCC PART 24E

Conclusions : PASSED*

*In the configuration tested, the EUT complied with the standards specified above.

Test/Witness Engineer

Approved & Authorized

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.



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1. General Information

1.1 Client Information

Applicant	:	CWELL INTERNATIONAL CO.,LTD.
Address	:	Room 2810-2814, Building A, Qunxing Plaza, Huaqiang North Rd, Futian
		District, Shenzhen, 518031, China .
Manufacturer	:	CWELL INTERNATIONAL CO.,LTD.
Address	:	Room 2810-2814, Building A, Qunxing Plaza, Huaqiang North Rd, Futian
		District, Shenzhen, 518031, China .

1.2 General Description of EUT (Equipment Under Test)

Product Name	:	Rugged Smartphone				
Models No.	:	HG06				
Difference	:	N/A				
Trademark	:	AngelLira				
		Operation Band:	WCDMA BAND II/V			
		Operation frequency	WCDMA BAND II: 1852.4MHz—1907.6MHz			
Product			WCDMA BAND V: 826.4MHz—846.6MHz			
Description	:	Modulation Technology:	QPSK			
		Antenna Type:	Integral Antenna			
		Antenna Gain:	1dBi			
Power Supply	:	USB DC 5V from PC, DC 3.7V from Li-ion battery				

Note:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



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1.3 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

Test Mode	Description
Transmitting mode	Keep the EUT in continuous transmitting with modulation

Remark: The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

During all testing, EUT is in link mode with base station emulator at maximum power level in each test mode and channel as below:

Mode	Channel	Frequency(MHz)
	4132	824.2
UMTS BAND V	4182	836.6
	4233	846.6
	9262	1852.4
UMTS BAND II	9400	1880.0
	9538	1907.6

1.4 Test Instruments List

	Test Equipment	Manufacturer	Model No.	Cal. Date	Cal. Due date
1	Bilog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	May 22, 2016	May 21, 2017
2	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	May 27, 2016	May 26, 2017
3	Coaxial Cable	N/A	N/A	Mar. 28, 2016	Mar. 27, 2017
4	Coaxial Cable	N/A	N/A	Mar. 29, 2016	Mar. 29, 2017



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10000					
5	Coaxial cable	N/A	N/A	Mar. 29, 2016	Mar. 29, 2017
6	Coaxial Cable	N/A	N/A	Mar. 29, 2016	Mar. 29, 2017
7	Coaxial Cable	N/A	N/A	Mar. 29, 2016	Mar. 29, 2017
8	Amplifier (10kHz-1.3GHz)	HP	8447D	Mar. 29, 2016	Mar. 29, 2017
9	Amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	Jun. 06, 2016	Mar. 29, 2017
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	Mar. 29, 2016	Mar. 29, 2017
11	Horn Antenna	ETS-LINDGREN	3160	Mar. 27, 2016	Mar. 27, 2017
12	Positioning Controller	UC	UC3000	N/A	N/A
13	Spectrum analyzer 9kHz-30GHz	Rohde & Schwarz	FSP	May 26, 2016	May 27, 2017
14	EMI Test Receiver	Rohde & Schwarz	ESPI	Mar. 29, 2016	Mar. 30, 2017
15	Loop antenna	Laplace instrument	RF300	May 22,, 2016	May 23, 2017
16	Universal radio communication tester	Rhode & Schwarz	CMU200	May 26, 2016	May 27, 2017
17	Signal Analyzer	Rohde & Schwarz	FSIQ3	May 26, 2016	May 27, 2017
18	L.I.S.N.#1	Rohde & Schwarz	NSLK8126	May 26, 2016	May 27, 2017
19	L.I.S.N.#2	Rohde & Schwarz	ENV216	May 26, 2016	May 27, 2017
20	Power Meter	Anritsu	ML2495A	May 26, 2016	May 27, 2017
21	Power sensor	Anritsu	ML2491A	May 26, 2016	May 27, 2017
22	Base station	Agilent	E5515C	May 26, 2016	May 27, 2017
23	Bilog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9275	May 22, 2016	May 21, 2017
24	Horn Antenna	ETS-LINDGREN	3258	Mar. 27, 2016	Mar. 27, 2017
_					

1.5 Laboratory Location

Shenzhen TOBY technology Co., Ltd

Address: 1 A/F., Bldg.6, Yusheng Industrial Zone The National Road No.107 Xixiang Section 467,

Xixiang, Bao'an, Shenzhen, Guangdong, 518057, China

At the time of testing, the Laboratory is accredited. It is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562 7.

Tel:0086-755-26509301 Fax: 0086-755-26509195



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2. Test Summary

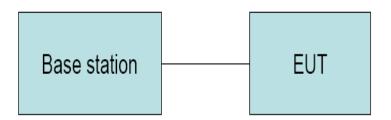
Description of Test Item	Standard	Results
	FCC PART 2: 2.1046	
Conducted Output power	FCC PART 22H: 22.913 (a)	PASS
	FCC PART 24E: 24.232 (c)	
	FCC PART 22H:22.913 (a)	D4.00
Radiated Output power(erp/eirp)	FCC PART 24E:24.232(c)	PASS
	FCC PART 2: 2.1049	
Occupied bandwidth	FCC PART 22H: 22.917 (b)	PASS
	FCC PART 24E: 24.238 (b)	
	FCC PART 2: 2.1055	
Frequency stability	FCC PART 22H: 22.355	PASS
	FCC PART 24E: 24.235	
Conducted spurious emission	FCC PART 2: 2.1051	
·	FCC PART 22H: 22.917	PASS
(Antenna terminal)	FCC PART 24E: 24.238	
	FCC PART 2: 2.1053	
Radiated spurious emissions	FCC PART 22H: 22.917	PASS
	FCC PART 24E: 24.238	
	FCC PART 22H: 22.917 (b)	D.4.00
Band edge compliance	FCC PART 24E: 24.238 (b)	PASS
	FCC Part 15: 15.207	B. 600
Power Line Conducted Emission Test	ANSI C63.4: 2014	PASS



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3. Conducted Output Power

3.1. Test Setup



3.2. Limit

Cellular Telephone 850MHz	PCS 1900MHz
38.5dBm(ERP)	33dBm(EIRP)

3.3. Test Procedure

- (1) The EUT's RF output port was connected to base station.
- (2) A call is set up by the SS according to the generic call set up procedure
- (3) Set EUT at maximum power level through base station by power level command
 - (4) Measure the maximum output power of EUT at each frequency band and mode by base station.



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3.4. Test Result

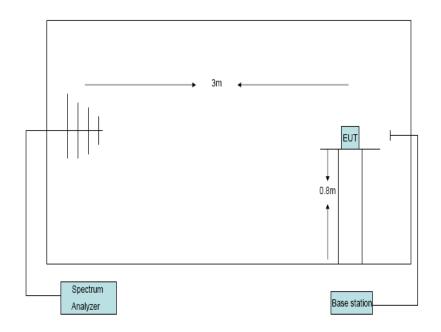
Mode	Channel		PK Output Power(dBm)									Limit
		WCDMA		HSI	DPA		HSUPA					(dBm)
			Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	
			Test1	Test2	Test3	Test4	Test1	Test2	Test3	Test4	Test5	
WCDMA 850	4132	21.64	20.35	20.78	19.03	19.64	20.87	19.32	19.53	19.32	19.48	38.5
	4182	21.53	19.86	20.16	19.73	19.92	20.75	18.98	19.33	19.38	19.19	38.5
	4233	21.71	20.63	20.31	19.55	19.87	20.86	20.08	19.47	19.77	19.30	38.5
WCDMA1900	9262	20.98	19.50	19.42	17.93	18.79	18.98	18.23	18.99	18.95	18.90	33
	9400	20.92	19.01	19.37	17.92	18.72	18.97	18.52	18.11	18.25	18.75	33
	9538	21.07	19.86	19.44	18.54	18.83	19.00	19.00	18.37	18.58	19.02	33



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4. Radiated Power

4.1 Test Setup



4.2 Limit

Cellular Telephone 850MHz	PCS 1900MHz
38.5dBm(ERP)	33dBm(EIRP)

4.3 Test Procedure

- 1. The EUT was placed on an non-conductive rotating platform with 0.8 meter height in an anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RBW= 3MHz,VBW= 3MHz and peak detector settings.
- 2. During the measurement, the EUT was enforced in maximum power and linked with a base station. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations
- 3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (for frequency lelow 1GHz) or Horn antenna(for frequency above 1GHz) at same location with same polarize of reveiver antenna and then a known power of each measure frequency from S.G. was applied into the dipole antenna or Horn antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna.



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Page: 11 of 36 The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain -Substitution antenna Loss(only for Dipole antenna) - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP= LVL + Correction factor and ERP = EIRP - 2.15

4.4 Test Data

Mode	Channel	LVL	Correction	ERP	EIRP
		(dBm)	factor(dB)	(dBm)	(dBm)
MCDMA DAND	4132	-6.41	30.27	21.71	/
WCDMA BAND	4182	-6.45	30.16	21.56	/
V	4233	-6.85	30.24	21.24	/
MCDMA DAND	9262	-25.62	46.83	/	21.21
WCDMA BAND	9400	-25.64	46.97	/	21.33
II	9538	-25.66	46.96	/	21.30

ERP=LVL + Correction factor -2.15

EIRP=LVL+ Correction factor



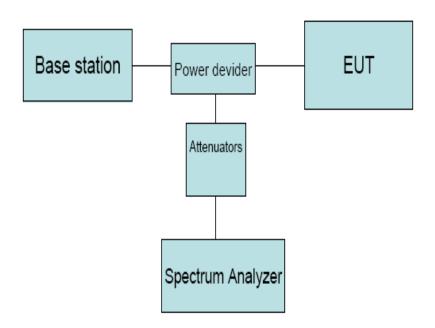
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5. Occupied Bandwidth

5.1. Limit

N/A

5.2. Test Setup



5.3. Test Procedure

- 1. The EUT' RF output port was connected to Spectrum Analyzer and Base Station via power divider.
- 2. Spectrum analyzer's occupied bandwidth measure function was used to measure 99% bandwidth and -26dBc bandwidth



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5.4. Test Data

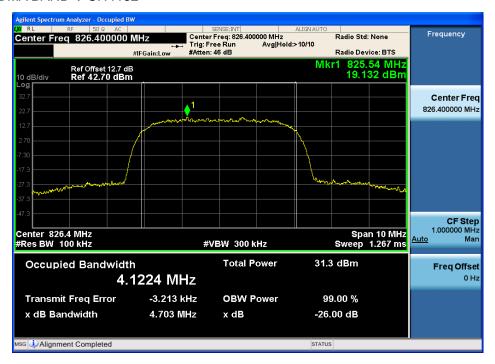
Mode	Channel	99% bandwidth	-26dBc bandwidth
		(KHz)	(KHz)
	4132	4.1224	4.703
WCDMA BAND V	4182	4.1541	4.747
	4233	4.1644	4.727
	9262	4.1424	4.727
WCDMA BAND II	9400	4.1571	4.728
	9538	4.1545	4.721



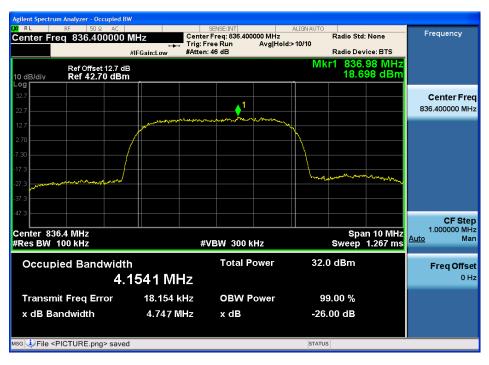
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5.5. Test Plot

WCDMA BAND V CH4132



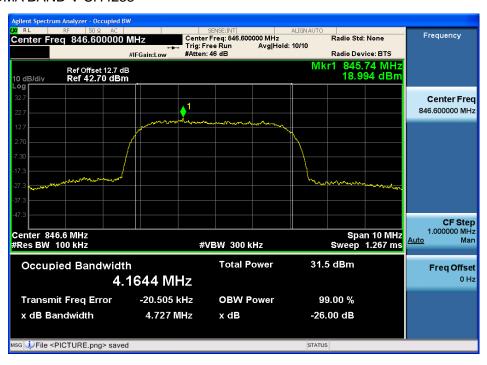
WCDMA BAND V CH4182



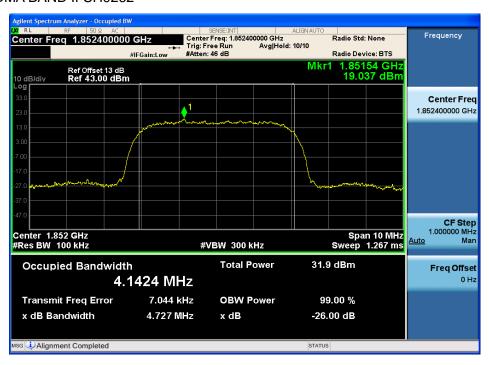


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WCDMA BAND V CH4233



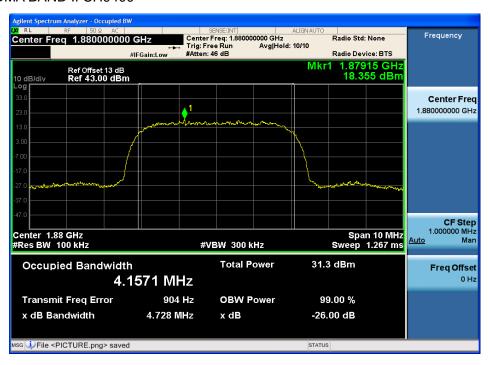
WCDMA BAND II CH9262



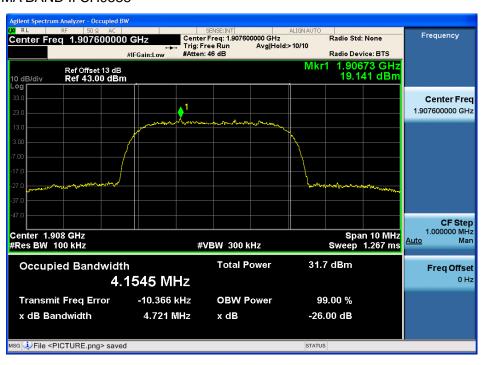


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WCDMA BAND II CH9400



WCDMA BAND II CH9538





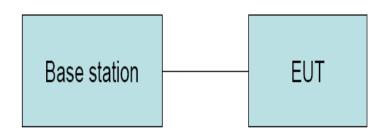
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6. Frequency Stability

6.1. Limit

Cellular Telephone 850MHz	PCS 1900MHz		
± 2.5 ppm	Must stay within the authorized frequency block		

6.2. Test Setup



6.3. Test Procedure

Test Procedures for Temperature Variation:

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- 2. With power OFF, the temperature was decreased to -10°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 45°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.
- 4. If the EUT can not be turned on at -10°C, the testing lowest temperature will be raised in 10°C step until the EUT can be turned on.

Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at 25±5° C and connected with the base station.
- 2. The power supply voltage to the EUT was varied from DC 5V to 3.5V
- 3. The variation in frequency was measured for the worst case.



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6.4. Test Data

Frequency VS Voltage

Mode	Voltage	Frequency error	frequency error
	(V)	(Hz)	(ppm)
WCDMA BAND V CH4182	4.1V	21.38	0.03
	3.7V	-14.82	-0.02
	3.1V	18.84	0.02
WCDMA BAND II	4.1V	-22.75	-0.01
CH9400	3.7V	39.92	0.02
GH9400	3.1V	-25.58	-0.01

Frequency VS Temperature

Mode	Temperature	Frequency error	frequency error
	(℃)	(Hz)	(ppm)
	-30	7.56	0.01
	-20	6.38	0.01
	-10	26.18	0.03
WCDMA BAND V	0	-9.92	-0.01
CH4182	10	23.74	0.03
CH4102	20	-7.55	-0.01
	30	-7.82	-0.01
	40	-17.75	-0.02
	50	44.82	0.02
	-30	-21.32	-0.01
	-20	37.58	0.02
	-10	-20.68	-0.01
WCDMA BAND II	0	39.25	0.02
CH9400	10	-19.86	-0.01
OI 13400	20	26.18	0.01
	30	-9.92	-0.01
	40	26.18	0.03
	50	-9.92	-0.01



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Frequency VS Voltage

Mode	Voltage	Frequency error	frequency error
	(V)	(Hz)	(ppm)
EGPRS850	4.1V	17.52	0.02
CH 190	3.7V	-18.34	-0.02
CH 190	3.1V	15.46	0.02
FCDDC4000	4.1V	-26.71	-0.01
EGPRS1900 CH661	3.7V	36.35	0.02
CHOOT	3.1V	-29.57	-0.02

Frequency VS Temperature

Mode	Temperature	Frequency error	frequency error
	(℃)	(Hz)	(ppm)
	-30	18.27	0.02
	-20	19.15	0.02
	-10	17.77	0.02
EGPRS850	0	21.83	0.02
CH190	10	-15.32	-0.02
CITI90	20	17.54	0.02
	30	-12.62	-0.02
	40	-13.63	-0.02
	50	-21.57	-0.01
	-30	36.43	0.02
	-20	23.29	0.01
	-10	28.52	0.02
EGPRS1900	0	37.17	0.02
CH661	10	-24.54	-0.01
CI 100 I	20	31.73	0.02
	30	-24.28	-0.01
	40	21.18	0.02
	50	-16.46	-0.02



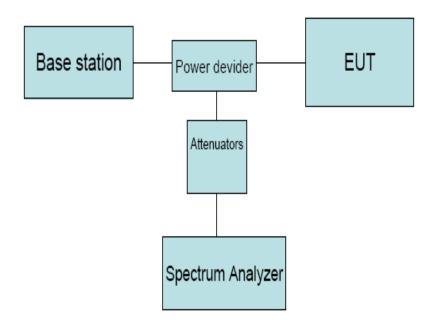
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7. Conducted Spurious Emission

7.1. Limit

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least (43 + 10 log P) dB, in this case, -13dBm.

7.2. Test Setup



7.3. Test Procedure

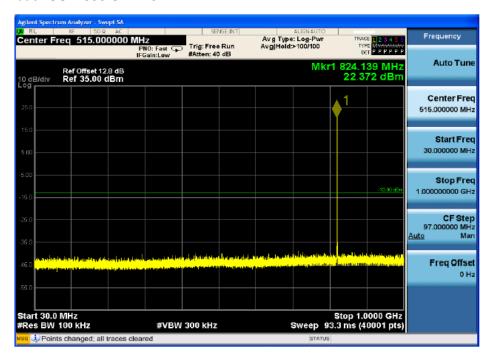
- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The low, middle and high channels of each band and mode's spurious emissions for 30MHz to 10th Harmonic were measured by Spectrum analyzer.



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7.4. Test Plot

Test Mode: GSM 850 CH 128

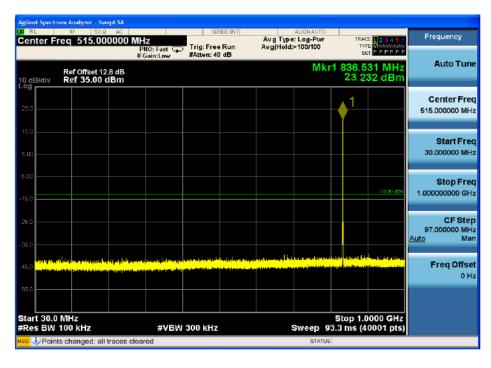


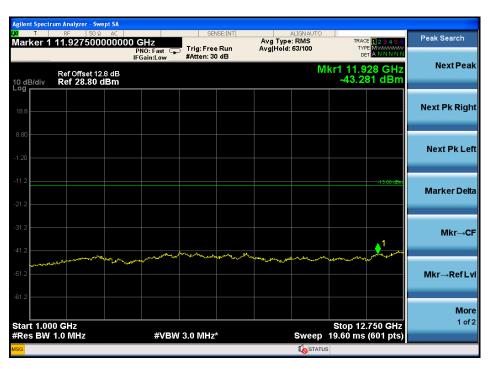




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Test Mode: GSM 850 CH 190

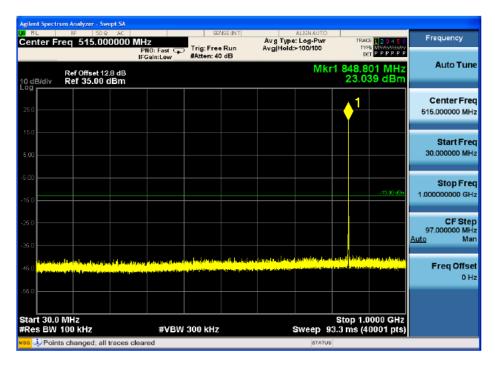






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Test Mode: GSM 850 CH 251







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Test Mode: GSM 1900 CH 512



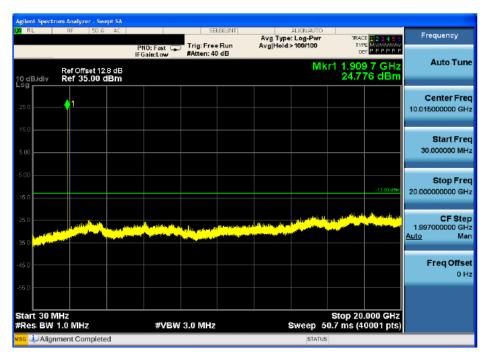
Test Mode: GSM 1900 CH 661





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Test Mode: GSM 1900 CH 810





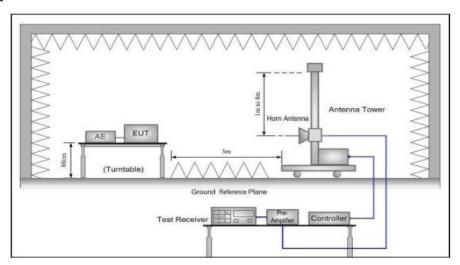
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8. Radiated Spurious Emission

8.1. **Limit**

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least (43 + 10 log P) dB, in this case, -13dBm.

8.2. Test Setup



8.3. Test Procedure

- 1. The EUT was placed on an non-conductive rotating platform with 0.8 meter height in an anechoic chamber. The radiated spurious emissions from 30MHz to 10th harmonious of fundamental frequency were measured at 3m with a test antenna and a spectrum analyzer with RBW= 1MHz,VBW= 1MHz peak detector settings.
- 2. During the measurement, the EUT was enforced in maximum power and linked with a base station. All the spurious emissions (record as LVL) at 3m were measured by rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
- 3. Final spurious emissions levels were measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (for frequency below 1GHz) or Horn antenna (for frequency above 1GHz) at same location with same polarize of receiver antenna and then a known power of each measure frequency from S.G. was applied into the dipole antenna or Horn antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. Tx Cable loss + Substitution antenna gain –Substitution antenna Loss(only for Dipole antenna) Analyzer reading. Then final

spurious emissions were calculated with the correction factor, EIRP= LVL + Correction factor and



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8.4. Test Result

Test Mode: WCDMA BAND V CH4132								
Frequency	Frequency Antenna		Correction	Result	Limit	Margin		
(MHz)	polarization	(dBm)	factor(dB)	(ERP)(dBm)	(dBm)	(dB)		
537.31	Н	-59.23	-6.53	-59.23	-13	46.23		
537.31	V	-61.55	-6.53	-61.55	-13	48.55		
1652.8	Н	-56.29	11.5	-56.29	-13	43.29		
1652.8	V	-46.8	10.56	-46.78	-13	33.78		
Test Mode:	WCDMA BAND	V CH4182						
1672.8	Н	-55.87	10.94	-55.87	-13	42.87		
1672.8	V	-53.15	10.9	-53.15	-13	40.15		
Test mode: W	Test mode: WCDMA BAND V CH4233							
1693.2	Н	-49.49	-49.49	-13	36.49	-49.49		
1693.2	V	-45.13	-45.13	-13	32.13	-45.13		

Test Mode: WCDMA BAND II CH9262								
Frequency	Antenna	LVL	Correction	Result	Limit	Margin		
(MHz)	polarization	(dBm)	factor(dB)	(ERP)(dBm)	(dBm)	(dB)		
537.31	Н	-57.23	-6.53	-57.23	-13	44.23		
537.31	V	-62.47	-6.53	-62.47	-13	49.47		
3704.8	Н	-59.09	14.92	-59.09	-13	46.09		
3704.8	V	-50.48	14.95	-50.48	-13	37.48		
Test Mode: W	CDMA BAND	II CH9400				·		
3760	Н	-59.78	15.03	-59.78	-13	46.78		
3760	V	-51.12	15.11	-51.12	-13	38.12		
Test mode: WC	DMA BAND II	CH9538						
3815.2	Н	-59.53	15.15	-59.53	-13	46.53		
3815.2	V	-50.91	15.2	-50.91	-13	37.91		
Note: All th	ne other emiss	ions not recorde	d were too low	to read, and de	emed to com	ply with limit.		



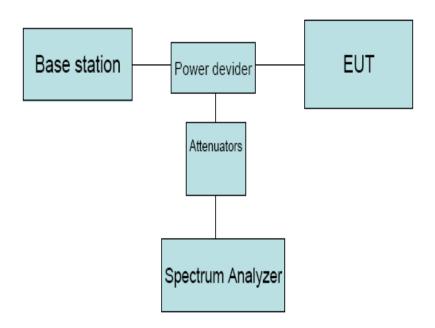
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9. Band Edge Requirement

9.1. **Limit**

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least (43 + 10 log P) dB, in this case, -13dBm.

9.2. Test Setup



9.3. Test Procedure

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The band edges of low and high channels for the highest RF powers were measured.



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9.4. Test Plot

Test Mode: WCDMA BAND V







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Test Mode: WCDMA BAND II



2.





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10. Power Line Conducted Emission

11.1. Test Standard and Limit

11.1.1 Test Standard

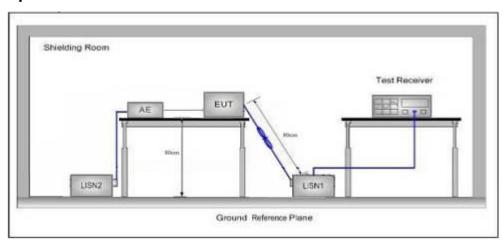
FCC Part15 C Section 15.207

11.1.2 Test Limit

Maximum RF Line Voltage (dBμV)			
Quasi-peak Level	Average Level		
66 ~ 56 *	56 ~ 46 *		
56	46		
60	50		
	Quasi-peak Level 66 ~ 56 * 56		

Remark: (1) *Decreasing linearly with logarithm of the frequency.

11.2. Test Setup



11.3. Test Procedure

- 1) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω / 50μ H + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 2) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.

The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal

⁽²⁾ The lower limit shall apply at the transition frequencies.



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ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

The Test Receiver setup: RBW=9kHz, VBW=30kHz, Sweep time= auto

11.4. Test Data

Please to see the following pages



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Report No.: ATA160705016F Conducted Emission Test Data

EUT: Rugged Smartphone M/N: HG06

Operating Condition: Charging & Working mode

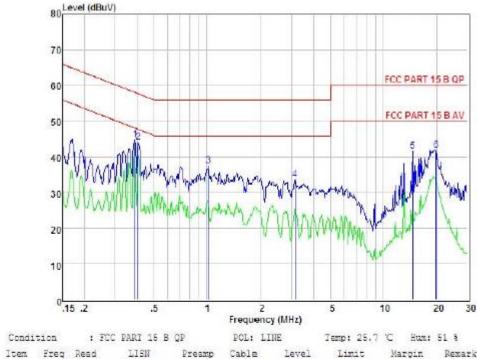
Test Site: Shielded room

Operator: Jason

Test Specification: AC120V/60Hz

Polarization: Line

Note Tem:25℃ Hum:50%



Cond	ition	: FC	C PART 15	B QP	POL: I	INE	Temp: 25.	7 °C Hum:	51 %
Item	Freq	Read Level	LISN Factor	Preamp Factor	Cable	level	Limit	Margin	Remark
	MHz	dBuV	dΒ	dВ	dB	dBuV	dBu∀	dBuV	
1	0.389	35.08	0.03	-9.57	0.10	44.78	58.08	-13.30	Peak
2	0.406	34.52	0.03	-9.57	0.10	44.22	57.73	-13.51	Peak
3	1.021	27.84	0.04	-9.63	0.10	37.61	56.00	-18.39	Peak
4	3.140	23.69	0.07	-9.81	0.12	33.69	56.00	-22,31	Peak
5	14.672	31.26	0.24	-9.86	0.23	41.59	60.00	-18.41	Peak
6	19.950	31,44	0.31	-9.80	0.35	41.90	60.00	-18,10	Peak

Remark: level - Read Level + LISN Factor - Freamp Factor + Cable Loss



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Report No.: ATA160705016F Conducted Emission Test Data

EUT: Rugged Smartphone M/N: HG06

Operating Condition: Charging & Working mode

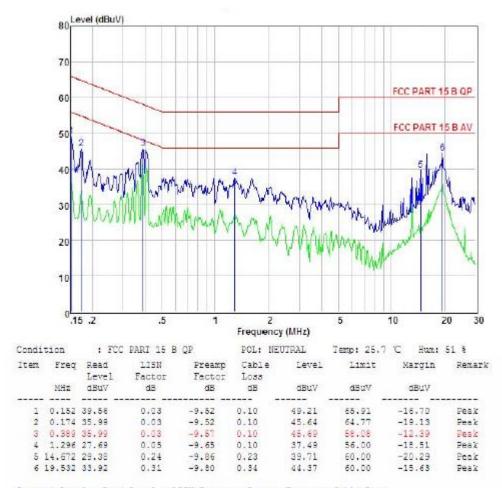
Test Site: Shielded room

Operator: Jason

Test Specification: AC 120V/60Hz

Polarization: Neutral

Note Tem:25°C Hum:50%





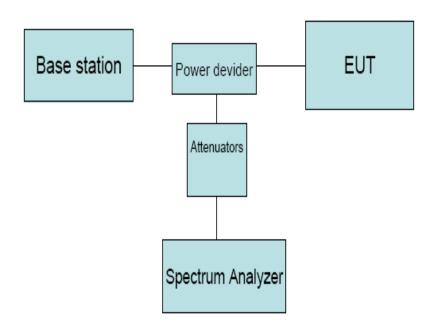
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11Peak-to-Average Ratio

11.1 Limit

In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

11.2 Test Setup



11.3 Test Procedure

The EUT' RF output port was connected to Measurement Instrument(s) and Base Station via power divider, and then measure the test data.

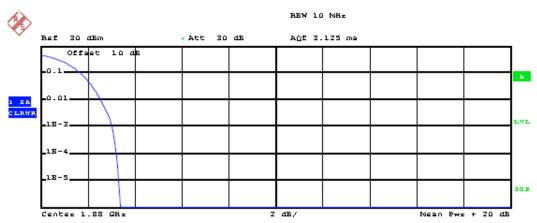
11.4Test Result

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
	WCDMA1900 WCDMA	LCH	3.35	13	PASS
WCDMA1900		MCH	3.38	13	PASS
		HCH	2.99	13	PASS



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Test plots of worst case



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 22.60 dBm
Peak 25.98 dBm
Crest 3.38 dB

10 % 1.72 dB 1 % 2.56 dB .1 % 3.04 dB .01 % 3.24 dB