HONG KONG IPRO TECHNOLOGY CO., LIMITED

Smart Mobile Phone

Main Model: TRANS I Serial Model: N/A

May 24, 2014

Report No.: 14070231-FCC-R1 (This report supersedes NONE)



Modifications made to the product: None

This Test Report is Issued Under the Authority of:

Wiky Jam

Wiky Jam

Compliance Engineer

Technical Manager

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Test result presented in this test report is applicable to the representative sample only.





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Laboratory Introduction

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In addition to <u>testing</u> and <u>certification</u>, SIEMIC provides initial design reviews and <u>compliance</u> <u>management</u> through out a project. Our extensive experience with <u>China</u>, <u>Asia Pacific</u>, <u>North America</u>, <u>European</u>, <u>and international</u> compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the <u>global markets</u>.

SIEMIC (Shenzhen - China) Laboratories Accreditations for Conformity Assessment

Country/Region	Scope		
USA	EMC , RF/Wireless , Telecom		
Canada	EMC, RF/Wireless, Telecom		
Taiwan	EMC, RF, Telecom, Safety		
Hong Kong	RF/Wireless ,Telecom		
Australia	EMC, RF, Telecom, Safety		
Korea	EMI, EMS, RF, Telecom, Safety		
Japan	EMI, RF/Wireless, Telecom		
Singapore	EMC, RF, Telecom		
Europe	EMC, RF, Telecom, Safety		



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1. EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programmed was to demonstrate compliance of the HONG KONG IPRO TECHNOLOGY CO., LIMITED, Smart Mobile Phone and model: TRANS I against the current Stipulated Standards. The Smart Mobile Phone has demonstrated compliance with the FCC Part 22(H) & FCC Part 24(E): 2013.

EUT Information

EUT

Description: Smart Mobile Phone

Main Model : TRANS I

Serial Model N/A

UMTS-FDD Band V/GSM850: -1 dBi

UMTS-FDD Band II/PCS1900: -0.5 dBi

Antenna Gain

Bluetooth/BLE: 1dBi

WIFI: 0 dBi

Battery:

Model: i9353

Spec: 3.7V 1200mAh

Limited charger voltage: 4.2V

Input Power :

Adapter:

Model: NTR-S01

Input: AC 100-240V; 50/60Hz 0.15A

Output: DC 5.0V; 0.7A

GSM850: 31.44 dBm

Maximum I Conducted

PCS1900: 29.12 dBm

AV Power to

: UMTS-FDD Band V: 22.68 dBm

Antenna UMTS-FDD Band II: 22.75 dBm

GSM850: 26.45 dBm / ERP

Maximum PCS1900:22.33 dBm / EIRP

Radiated : UMTS-FDD Band V: 16.82dBm / ERP

ERP/EIRP UMTS-FDD Band II: 17.30 dBm / EIRP

Classification

Per Stipulated

: FCC Part 22(H) & FCC Part 24(E): 2013

Test Standard



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	2. TECHNICAL DETAILS
Purpose	Compliance testing of Smart Mobile Phone with stipulated standard
Applicant / Client	HONG KONG IPRO TECHNOLOGY CO., LIMITED FLAT/RM A3, 9/F SILVERCORP INT TOWER 707-713 NATHAN RD MONGKOK, HONGKONG
Manufacturer	SHENZHEN ZHIKE COMMUNICATION CO., LTD 8th Floor, B Bldg. Dianzi Fuhua Jidi, Taojindi, Longsheng community, Longhua District, Shenzhen, China
Laboratory performing the tests	SIEMIC (Shenzhen - China) Laboratories Zone A, Floor 1, Building 2, Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-0755-2601 4629 / 2601 4953 Fax: +86-0755-2601 4953-810 Email: China@siemic.com.cn
Test report reference number	14070231-FCC-R1
Date EUT received	May 05, 2014
Standard applied	FCC Part 22(H) & FCC Part 24(E): 2013
Dates of test	May 09 to May 19, 2014
No of Units	#1
Equipment Category	PCE
Trade Name	IPRO
RF Operating Frequency (ies)	GSM850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz PCS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX : 826.4 ~ 846.6 MHz; RX : 871.4 ~ 891.6 MHz UMTS-FDD Band II TX :1852.4 ~ 1907.6 MHz; RX : 1932.4 ~ 1987.6 MHz 802.11b/g/n: 2412-2462 MHz Bluetooth& BLE: 2402-2480 MHz
Number of Channels	299CH (PCS1900) and 124CH (GSM850) UMTS-FDD Band V: 102CH UMTS-FDD Band II: 277CH Bluetooth: 79CH 802.11b/g/n: 11CH BLE: 40CH
Modulation	GSM / GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS/OFDM Bluetooth: GFSK& π /4DQPSK&8DPSK BLE: GFSK
GPRS Multi-slot class	8/10/12
FCC ID	PQ4IPROTRANS II



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3 MODIFICATION

NONE



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3. TEST SUMMARY

The product was tested in accordance with the following specifications. All testing has been performed according to below product classification:

PCE

Test Results Summary

Test Standard	Description	Product Class	Pass / Fail
§ 1.1307, § 2.1093	RF Exposure (SAR)	See Above	Pass
\$2.1046; \$ 22.913 (a); \$ 24.232 (c)	RF Output Power	See Above	Pass
§ 2.1047	Modulation Characteristics	See Above	N/A
§ 2.1049; § 22.905 § 22.917; § 24.238	99% & -26 dB Occupied Bandwidth	See Above	Pass
§ 2.1051, § 22.917 (a); § 24.238 (a)	Spurious Emissions at Antenna Terminal	See Above	Pass
§ 2.1053 § 22.917 (a); § 24.238 (a)	Field Strength of Spurious Radiation	See Above	Pass
§ 22.917 (a); § 24.238 (a)	Out of band emission, Band Edge	See Above	Pass
§ 2.1055 § 22.355; § 24.235	Frequency stability vs. temperature Frequency stability vs. voltage	See Above	Pass

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different.

The product Smart Mobile Phone, Model: TRANS I and TRANS II. These is no electrical change has been made. The difference is the appearance of material and GSM antenna. Details were explained in the Declaration letter from customer.

This difference only affects Spurious Emissions and ERP/EIRP, and the other test data please refer to report 14070223-FCC-R1.



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4. <u>MEASUREMENTS, EXAMINATION AND DERIVED</u> <u>RESULTS</u>

5.1 §1.1307, §2.1093- RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation; Please refer to SIEMIC SAR Report: 14070231-FCC-H

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5.2 §2.1046; §22.913 (a); §24.232 (c) - RF Output Power

Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 40GHz is $\pm 1.5dB$.

3. Environmental Conditions

Temperature 25°C
Relative Humidity 51%
Atmospheric Pressure 1001mbar

4. Test date: May 20, 2014 Tested By: Wiky Jam

Procedures: (According with KDB 971168)

For Conducted Power:

- 1. The transmitter output port was connected to base station.
- 2. Set EUT at maximum power through base station.
- 3. Select lowest, middle, and highest channels for each band and different test mode.
- 4. The instrument must have an available measurement/resolution bandwidth that is equal to or exceeds the OBW. If this capability is available, then the following procedure can be used to determine the total peak output power.
 - a) Set the RBW \geq OBW.
 - b) Set VBW \geq 3 \times RBW.
 - c) Set span $\geq 2 \times RBW$
 - d) Sweep time = auto couple.
 - e) Detector = peak.
 - f) Ensure that the number of measurement points ≥ span/RBW.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - 1) Use the peak marker function to determine the peak amplitude level.

For ERP/EIRP: (According with TIA 603D)

- 1. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
- 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 3. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Sample Calculation:

EUT Field Strength (dBm) = Reading (Signal generator) + Antenna Gain (substitution antenna) - Cable loss (From Signal Generator to substitution antenna)

Test Result: Pass

Remark: Conducted Burst Average power for reporting purposes only The test data please refer to report 14070223-FCC-R1.

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Conducted Power

GSM Mode:

Burst Average Power (dBm);								
Band		GSN	1 850			GSM	11900	
Channel	128	190	251	Tune up Power tolerant	512	661	810	Tune up Power tolerant
Frequency (MHz)	824.2	836.6	848.8	/	1850.2	1880	1909.8	/
GSM Voice (1 uplink),GMSK	31.44	31.17	31.13	31±1	28.70	28.95	29.12	29±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	31.44	31.13	31.05	31±1	28.61	28.88	29.01	29±1
GPRS Multi-Slot Class 10 (2 uplink),GMSK	30.66	30.39	30.34	30±1	27.92	28.17	28.30	28±1
GPRS Multi-Slot Class 12 (4 uplink),GMSK	28.04	27.62	27.48	28±1	25.03	25.22	25.23	25±1

Remark:

GPRS, CS1 coding scheme.

Multi-Slot Class 8 , Support Max 4 downlink, 1 uplink , 5 working link Multi-Slot Class 10 , Support Max 4 downlink, 2 uplink , 5 working link

Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link

Note: Since GSM mode has higher power, so the test items below were not performed to GPRS mode.



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UMTS Mode:

UMTS-FDD Band V

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)
DMC	4132	826.4	22.59
RMC 12.2kbps	4175	835.0	22.68
12.280ps	4233	846.6	22.61
HCDDA	4132	826.4	22.43
HSDPA Subtest1	4175	835.0	22.37
Subtest1	4233	846.6	22.36
HCDDA	4132	826.4	22.12
HSDPA Subtest2	4175	835.0	22.04
Sublest2	4233	846.6	22.18
HCDDA	4132	826.4	22.21
HSDPA Subtest3	4175	835.0	22.26
Sublests	4233	846.6	22.20
HCDDA	4132	826.4	22.24
HSDPA Subtest4	4175	835.0	22.29
	4233	846.6	22.30
HCHDA	4132	826.4	22.19
HSUPA Subtest1	4175	835.0	22.15
Subtesti	4233	846.6	22.17
HCHDA	4132	826.4	22.02
HSUPA Subtest2	4175	835.0	22.06
Subtest2	4233	846.6	22.01
HCHDA	4132	826.4	22.35
HSUPA Subtest3	4175	835.0	22.39
Sublests	4233	846.6	22.37
HCHDA	4132	826.4	22.24
HSUPA Subtest4	4175	835.0	22.31
Sublest4	4233	846.6	22.28
HCHDA	4132	826.4	22.14
HSUPA Subtest5	4175	835.0	22.10
Sublesis	4233	846.6	22.09



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UMTS-FDD Band II

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)
RMC	9262	1852.4	22.75
12.2kbps	9400	1880.0	22.69
12.28008	9538	1907.6	22.71
HSDPA	9262	1852.4	22.32
Subtest1	9400	1880.0	22.41
Subtest1	9538	1907.6	22.39
HCDDA	9262	1852.4	22.63
HSDPA Subtest2	9400	1880.0	22.65
Subtest2	9538	1907.6	22.59
HCDDA	9262	1852.4	22.51
HSDPA Subtest3	9400	1880.0	22.47
Subtests	9538	1907.6	22.56
HCDDA	9262	1852.4	22.27
HSDPA Subtest4	9400	1880.0	22.32
	9538	1907.6	22.30
HCHDA	9262	1852.4	22.12
HSUPA Subtest1	9400	1880.0	22.18
Subtest1	9538	1907.6	22.10
HCHDA	9262	1852.4	22.31
HSUPA Subtest2	9400	1880.0	22.40
Subtest2	9538	1907.6	22.27
HSUPA	9262	1852.4	22.24
Subtest3	9400	1880.0	22.26
Subtests	9538	1907.6	22.23
HSUPA	9262	1852.4	22.10
HSUPA Subtest4	9400	1880.0	22.17
วนบเธรเฯ	9538	1907.6	22.15
HCHDA	9262	1852.4	22.28
HSUPA Subtest5	9400	1880.0	22.22
Buotesta	9538	1907.6	22.20



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ERP & EIRP (worst case) ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	20.18	V	6.8	0.53	26.45	38.45
824.2	20.16	Н	6.8	0.53	26.43	38.45
836.6	19.93	V	6.8	0.53	26.2	38.45
836.6	20.11	Н	6.8	0.53	26.38	38.45
848.8	20.06	V	6.9	0.53	26.43	38.45
848.8	19.93	Н	6.9	0.53	26.3	38.45

EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	14.93	V	7.88	0.85	21.96	33
1850.2	15.12	Н	7.88	0.85	22.15	33
1880	15.11	V	7.88	0.85	22.14	33
1880	15.23	Н	7.88	0.85	22.26	33
1909.8	14.88	V	7.86	0.85	21.89	33
1909.8	15.32	Н	7.86	0.85	22.33	33

ERP for UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	10.11	V	6.8	0.53	16.38	38.45
826.4	10.09	Н	6.8	0.53	16.36	38.45
835	10.16	V	6.8	0.53	16.43	38.45
835	10.55	Н	6.8	0.53	16.82	38.45
846.6	10.37	V	6.9	0.53	16.74	38.45
846.6	10.26	Н	6.9	0.53	16.63	38.45

EIRP for UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	10.21	V	7.88	0.85	17.24	33
1852.4	10.27	Н	7.88	0.85	17.30	33
1880	10.13	V	7.88	0.85	17.16	33
1880	10.22	Н	7.88	0.85	17.25	33
1907.6	10.11	V	7.86	0.85	17.12	33
1907.6	10.16	Н	7.86	0.85	17.17	33



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5.3 §2.1047 - Modulation Characteristic

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

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5.4 §2.1049, §22.917, §22.905 & §24.238 - Occupied Bandwidth

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyser was connected to the antenna terminal.

2. Environmental Conditions Temperature 21°C Relative Humidity 56%

Atmospheric Pressure 1017mbar

3. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor

of 2, in the range 30MHz - 40GHz is $\pm 1.5dB$.

Test date: May 16, 2014 Tested By: Wiky Jam

Procedures:

4.

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

2. The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers.

3. Details according with KDB 971168 section 4.1 & 4.2.

Test Results: Pass

The test data please refer to report 14070223-FCC-R1.

Cellular Band (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	245.1069	315.983
190	836.6	245.8009	316.016
251	848.8	243.9833	316.578

PCS Band (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)	
512	1850.2	246.3275	315.208	
661	1880.0	248.0340	313.091	
810	1909.8	242.3112	314.733	

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UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)		
4132	826.4	4.1695	4.716		
4175	835.0	4.1521	4.708		
4233	846.6	4.1927	4.780		

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1511	4.690
9400	1880.0	4.1410	4.730
9538	1907.6	4.1575	4.686

Please refer to the following plots.

Note:

850: Cellular Band 1900: PCS Band

W850: UMTS-FDD Band $\,\mathrm{V}\,$ W1900: UMTS-FDD Band $\,\mathrm{II}\,$

L: Low Channel M: Middle Channel H: High Channel SIEMIC, INC.

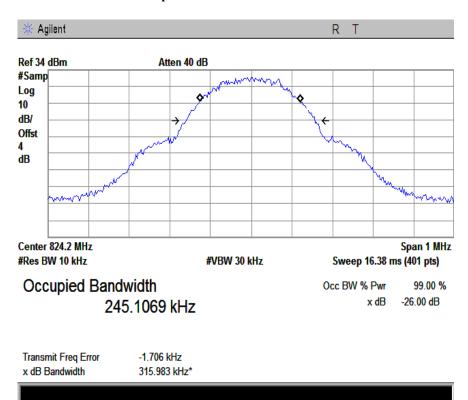
Accessing global markets
Title:

RF Test Report for Smart Mobile Phone
Main Model: TRANS I
Serial Model: N/A
To:

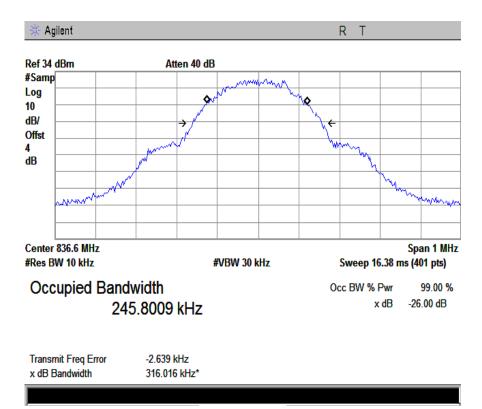
FCC Part 22(H) & FCC Part 24(E): 2013

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99% Occupied Bandwidth & 26 dB Bandwidth

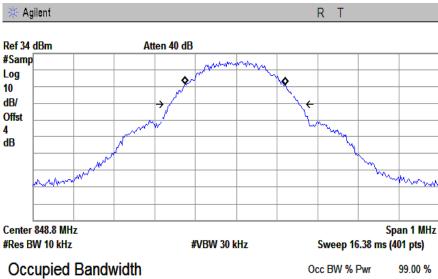


850-26DB-L.



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RF Test Report for Smart Mobile Phone Main Model: TRANS I Serial Model: N/A To: FCC Part 22(H) & FCC Part 24(E): 2013

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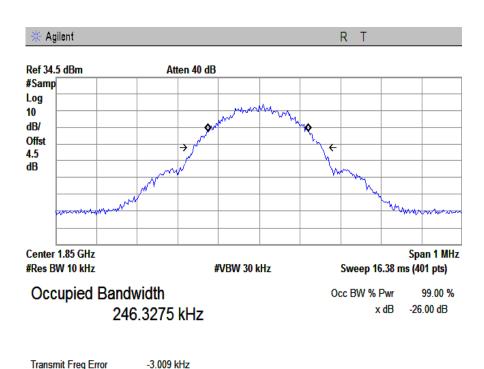
243.9833 kHz

x dB -26.00 dB

Transmit Freq Error -2.849 kHz x dB Bandwidth 316.578 kHz*

x dB Bandwidth

850-26DB-H



315.208 kHz*

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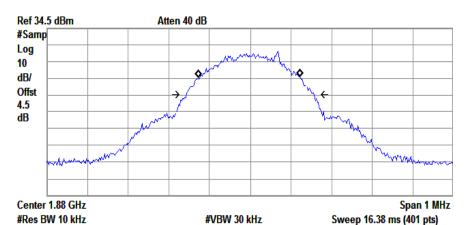
RF Test Report for Smart Mobile Phone
Main Model: TRANS I

Serial Model: N/A

To: FCC Part 22(H) & FCC Part 24(E): 2013

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Occupied Bandwidth 248.0340 kHz

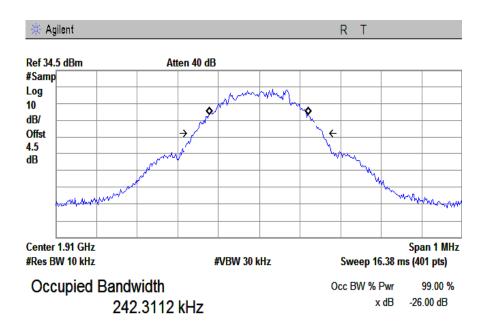
Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -2.452 kHz x dB Bandwidth 313.091 kHz*

Transmit Freq Error

x dB Bandwidth

1900-26DB-M



-1.550 kHz

314.733 kHz*

SIEMIC, INC.

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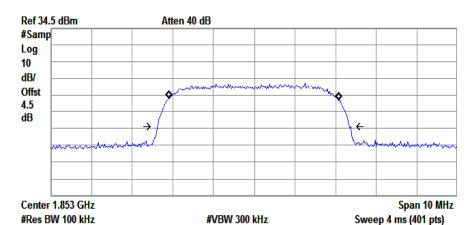
RF Test Report for Smart Mobile Phone
Main Model: TRANS I

Serial Model: N/A

To: FCC Part 22(H) & FCC Part 24(E): 2013

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#Res BW 100 kHz #VBW 300 kHz
Occupied Bandwidth

4.1695 MHz

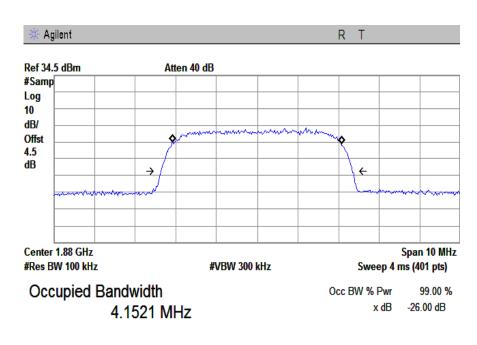
Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -16.489 kHz x dB Bandwidth 4.716 MHz*

Transmit Freq Error

x dB Bandwidth

W850-26DB-L



-5.652 kHz

4.708 MHz*

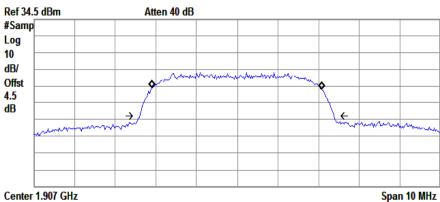
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RF Test Report for Smart Mobile Phone

Main Model: TRANS I Serial Model: N/A To: FCC Part 22(H) & FCC Part 24(E): 2013

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Center 1.907 GHz #Res BW 100 kHz

#VBW 300 kHz

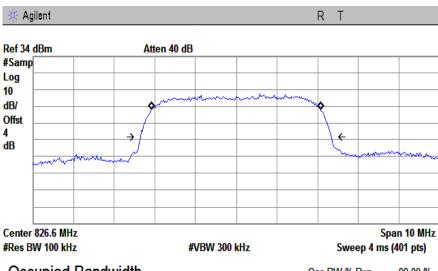
Sweep 4 ms (401 pts)

Occupied Bandwidth 4.1927 MHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -10.408 kHz x dB Bandwidth 4.780 MHz*

W850-26DB-H



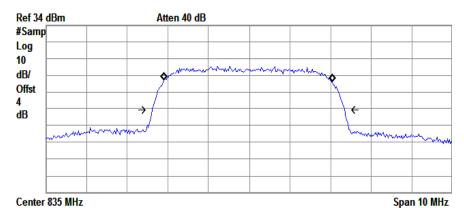
Occupied Bandwidth 4.1511 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error 5.486 kHz x dB Bandwidth 4.690 MHz* SIEMIC, INC.

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#VBW 300 kHz

#Res BW 100 kHz
Occupied Bandwidth

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Sweep 4 ms (401 pts)

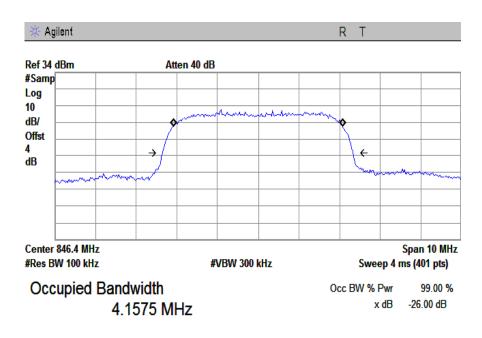
Transmit Freq Error -26.517 kHz x dB Bandwidth 4.730 MHz*

Transmit Freq Error

x dB Bandwidth

4.1410 MHz

W1900-26DB-M



-4.897 kHz

4.686 MHz*

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<u>5.5 §2.1051, §22.917(a) & §24.238(a) - Spurious Emissions at Antenna Terminals</u>

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 40GHz is $\pm 1.5dB$.

3. Environmental Conditions Temp

Temperature 22°C
Relative Humidity 57%
Atmospheric Pressure 1018mbar

4. Test date: May 17, 2014 Tested By: Wiky Jam

Standard Requirement:

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 $43 + 10 \log (P) dB$.

Procedures:

- 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. Setting RBW as roughly BW/100.
- 3. Details according with KDB 971168 section 6.0.

Test Result: Pass

The test data please refer to report 14070223-FCC-R1.

Refer to the attached plots.

Start 30 MHz #Res BW 1 MHz Report No: 14070231-FCC-R1 Issue Date: May 24, 2014 Page: 25 of 63 www.siemic.com www.siemic.com.cn

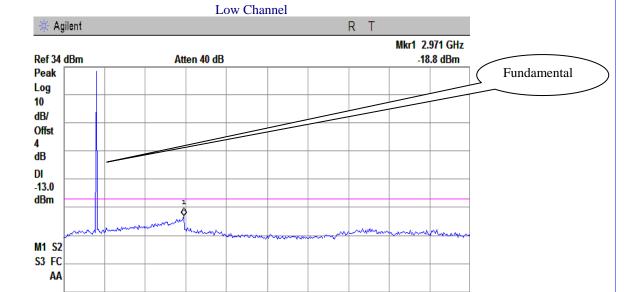
Stop 10 GHz

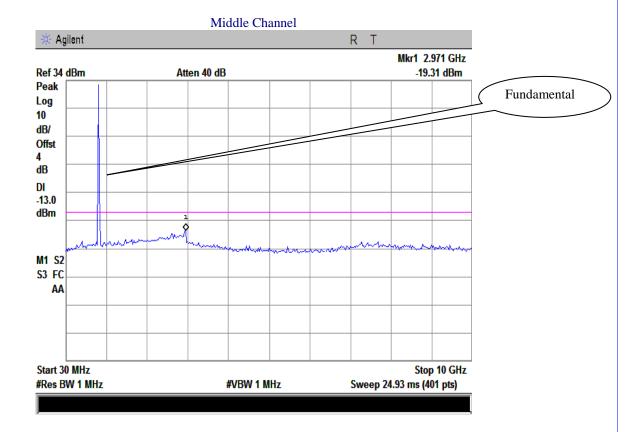
Sweep 24.93 ms (401 pts)

Cellular Band (Part 22H)

30MHz - 10G - GSM850

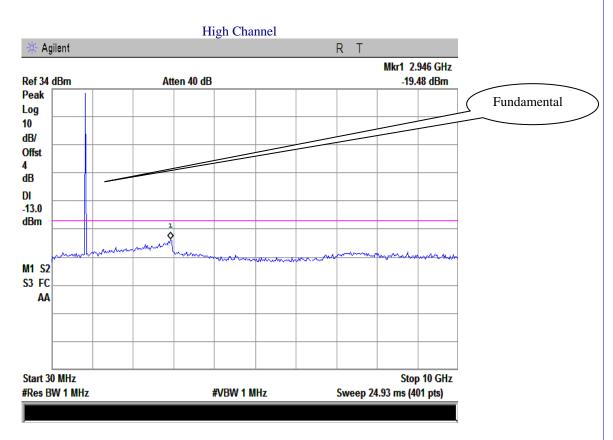
#VBW 1 MHz





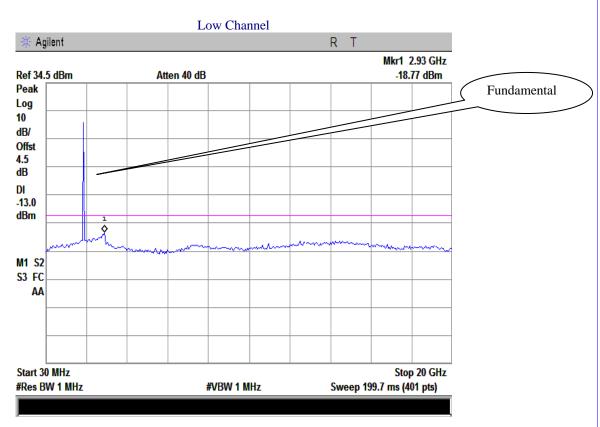


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PCS Band (Part24E)

30MHz -20G - PCS1900

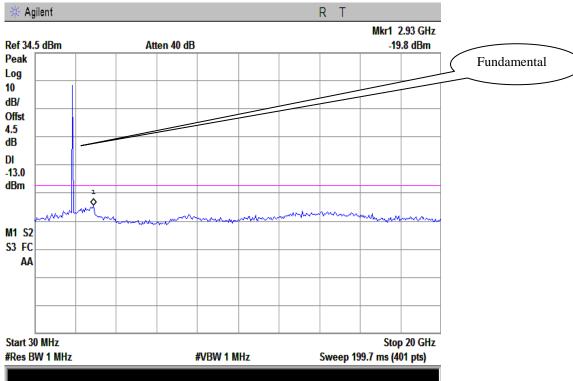


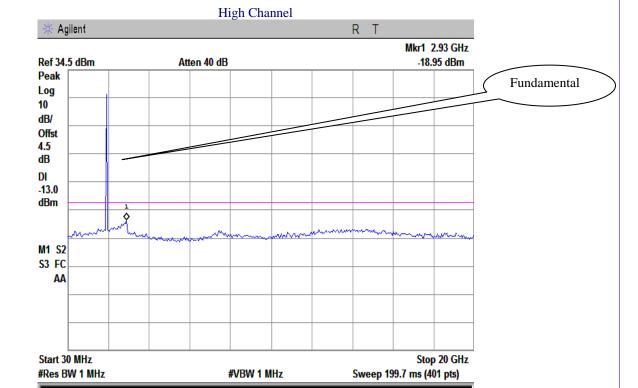


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Serial Model: N/A
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Middle Channel



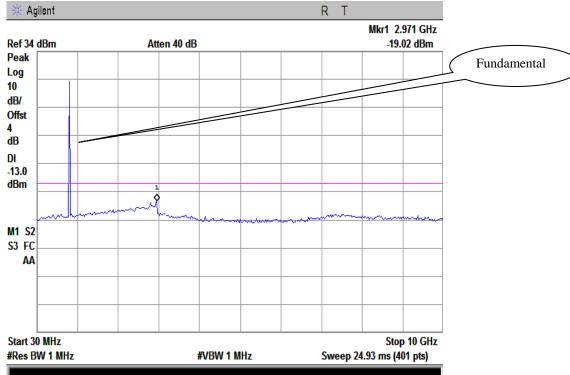


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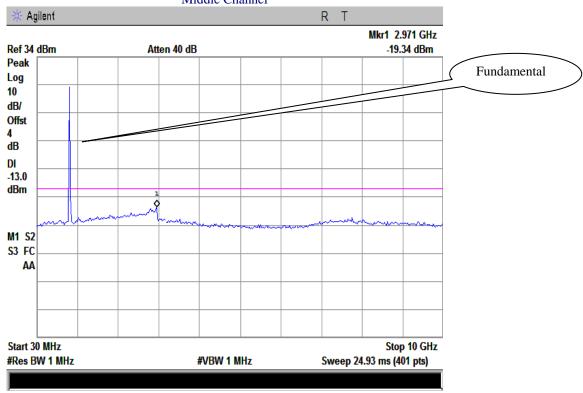
UMTS-FDD Band V (Part 22H)

30MHz -10G - WCDMA 850



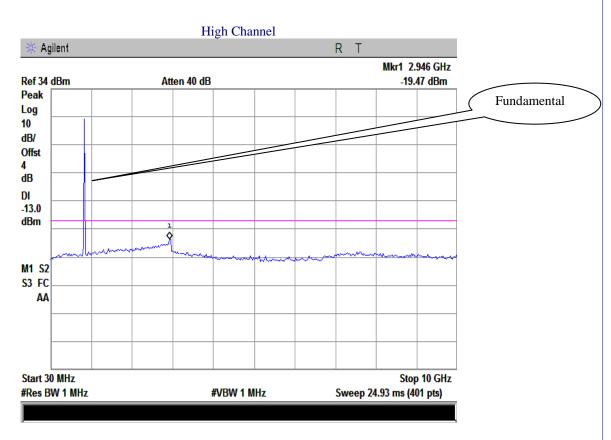


Middle Channel



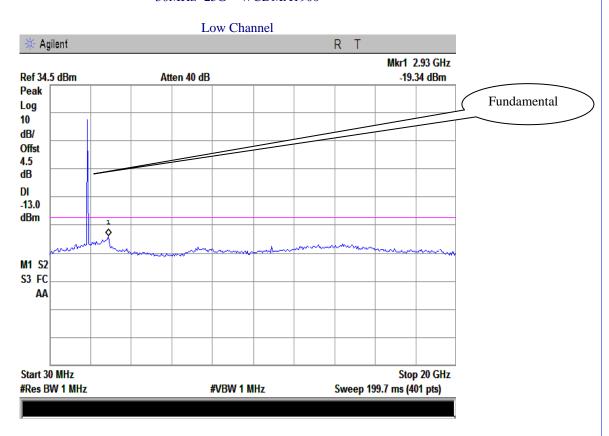


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UMTS-FDD Band II (Part24E)

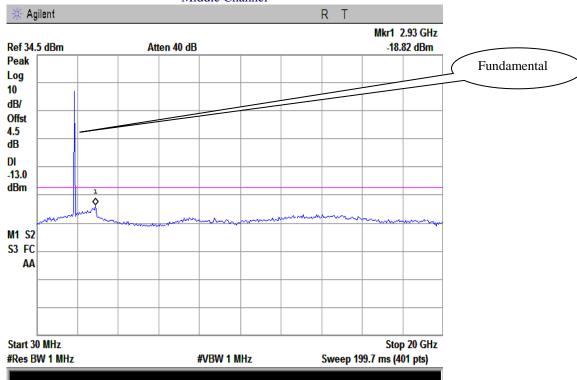
30MHz -25G - WCDMA1900

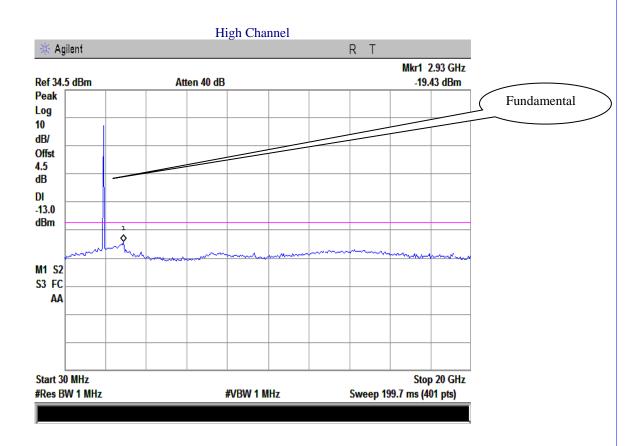




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Middle Channel





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5.6 §2.1053, §22.917 & §24.238 - Spurious Radiated Emissions

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.

2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.

3. Radiated Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 1 GHz - 40 GH is $\pm 6.0 \text{dB}$ (for EUTs < 0.5 m X 0.5 m X 0.5 m).

4. Environmental Conditions Temperature 23°C

Relative Humidity 58% Atmospheric Pressure 1019mbar

5. Test date: May 18, 2014 Tested By: Wiky Jam

Standard Requirement:

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 10^{th} harmonic.

Procedures: (According with TIA 603D)

- 1. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
- 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 3. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Sample Calculation:

EUT Field Strength (dBm) = Reading (Signal generator) + Antenna Gain (substitution antenna) - Cable loss (From Signal Generator to substitution antenna)

Test Result: Pass



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Cellular Band (Part 22H)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1648.4	-37.83	V	7.95	0.78	-30.66	-13	-17.66
1648.4	-38.71	Н	7.95	0.78	-31.54	-13	-18.54
339.7	-54.82	V	6.6	0.27	-48.49	-13	-35.49
756.1	-57.13	Н	7.1	0.43	-50.46	-13	-37.46

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1673.2	-38.12	V	7.95	0.78	-30.95	-13	-17.95
1673.2	-39.22	Н	7.95	0.78	-32.05	-13	-19.05
341.2	-55.67	V	6.6	0.27	-49.34	-13	-36.34
752.7	-56.56	Н	7.1	0.43	-49.89	-13	-36.89

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1697.6	-37.21	V	7.95	0.78	-30.04	-13	-17.04
1697.6	-39.12	Н	7.95	0.78	-31.95	-13	-18.95
336.5	-55.73	V	6.6	0.27	-49.4	-13	-36.4
755.5	-58.11	Н	7.1	0.43	-51.44	-13	-38.44



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PCS Band (Part 24E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3700.4	-40.26	V	10.25	2.73	-32.74	-13	-19.74
3700.4	-45.12	Н	10.25	2.73	-37.6	-13	-24.6
340.1	-57.24	V	6.6	0.27	-50.91	-13	-37.91
752.3	-56.82	Н	7.1	0.43	-50.15	-13	-37.15

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-41.56	V	10.25	2.73	-34.04	-13	-21.04
3760	-44.73	Н	10.25	2.73	-37.21	-13	-24.21
341.7	-57.13	V	6.6	0.27	-50.8	-13	-37.8
753.3	-58.12	Н	7.1	0.43	-51.45	-13	-38.45

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.6	-43.14	V	10.36	2.73	-35.51	-13	-22.51
3819.6	-45.24	Н	10.36	2.73	-37.61	-13	-24.61
342.8	-56.37	V	6.6	0.27	-50.04	-13	-37.04
755.7	-57.12	Н	7.1	0.43	-50.45	-13	-37.45

SIEMIC, INC.

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UMTS-FDD Band V (Part 22H)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1652.8	-45.13	V	7.95	0.78	-37.96	-13	-24.96
1652.8	-46.24	Н	7.95	0.78	-39.07	-13	-26.07
338.6	-54.73	V	6.6	0.27	-48.4	-13	-35.4
754.3	-57.34	Н	7.1	0.43	-50.67	-13	-37.67

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1670	-44.46	V	7.95	0.78	-37.29	-13	-24.29
1670	-46.37	Н	7.95	0.78	-39.2	-13	-26.2
335.6	-55.73	V	6.6	0.27	-49.4	-13	-36.4
754.7	-57.37	Н	7.1	0.43	-50.7	-13	-37.7

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1693.2	-46.82	V	7.95	0.78	-39.65	-13	-26.65
1693.2	-46.37	Н	7.95	0.78	-39.2	-13	-26.2
336.9	-57.24	V	6.6	0.27	-50.91	-13	-37.91
754.7	-57.33	Н	7.1	0.43	-50.66	-13	-37.66

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UMTS-FDD Band II (Part 24E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3704.8	-49.34	V	10.25	2.73	-41.82	-13	-28.82
3704.8	-50.01	Н	10.25	2.73	-42.49	-13	-29.49
337.9	-56.86	V	6.6	0.27	-50.53	-13	-37.53
754.6	-57.83	Н	7.1	0.43	-51.16	-13	-38.16

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-49.22	V	10.25	2.73	-41.7	-13	-28.7
3760	-49.37	Н	10.25	2.73	-41.85	-13	-28.85
336.5	-57.21	V	6.6	0.27	-50.88	-13	-37.88
754.3	-55.38	Н	7.1	0.43	-48.71	-13	-35.71

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3815.2	-48.86	V	10.36	2.73	-41.23	-13	-28.23
3815.2	-50.34	Н	10.36	2.73	-42.71	-13	-29.71
338.8	-56.12	V	6.6	0.27	-49.79	-13	-36.79
754.0	-56.32	Н	7.1	0.43	-49.65	-13	-36.65

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5.7 §22.917(a) & §24.238(a) - Band Edge

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2. Conducted Emissions Measurement Uncertainty

> All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 40GHz is $\pm 1.5dB$.

Environmental Conditions 3.

24°C Temperature **Relative Humidity** 50%

Atmospheric Pressure

1020mbar

4. Test date: May 19, 2014 Tested By: Wiky Jam

Standard Requirement:

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 $43 + 10 \log (P) dB$.

Procedures:

- 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. Setting RBW as roughly BW/100.
- 3. Details according with KDB 971168 section 6.0.

Test Result: Pass

The test data please refer to report 14070223-FCC-R1.

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Refer to the attached plots.

Cellular Band (Part 22H)

Cenum Buna (1 ure 2211)				
Frequency (MHz)	Emission (dBm)	Limit (dBm)		
823.9800	-14.24	-13		
849.0150	-14.26	-13		

PCS Band (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9775	-21.97	-13
1910.0200	-18.21	-13

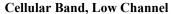
UMTS-FDD Band V (Part 22H)

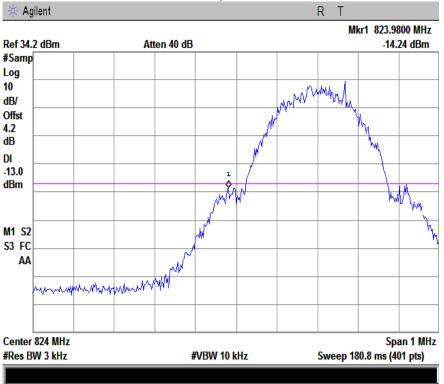
Frequency (MHz)	Emission (dBm)	Limit (dBm)			
824.000	-26.31	-13			
849.000	-25.37	-13			

UMTS-FDD Band II (Part 24E)

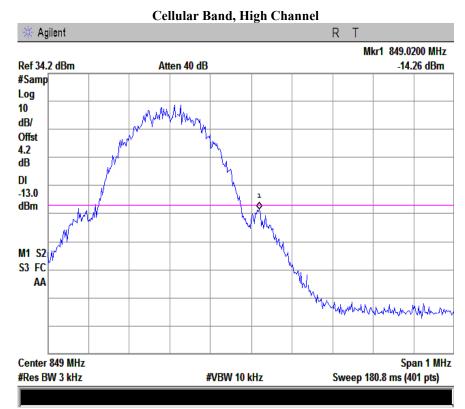
OMIS IDD Band II (1 art 24E)					
Frequency (MHz)	Emission (dBm)	Limit (dBm)			
1850.000	-23.37	-13			
1910.000	-19.84	-13			

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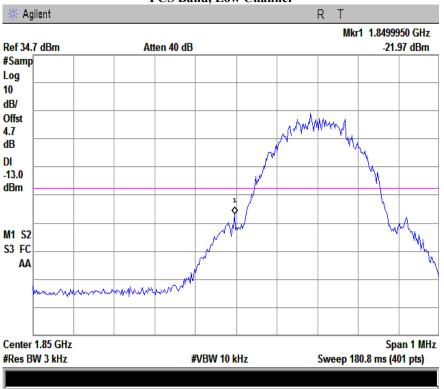
Note: Offset=Cable loss (4.0) + 10log (3.16/3)=4.0+0.2=4.2 dB



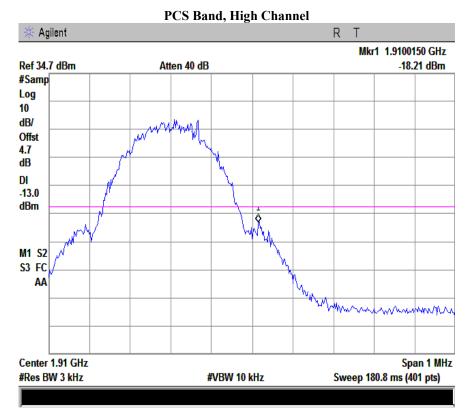
Note: Offset=Cable loss (4.0) + 10log (3.17/3)=4.0+0.2=4.2 dB

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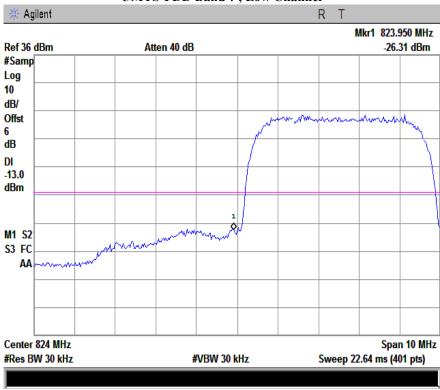
Note: Offset=Cable loss (4.5) + 10log (3.15/3)=4.5+0.2=4.7 dB



Note: Offset=Cable loss (4.5) + 10log (3.15/3)=4.5+0.2=4.7 dB

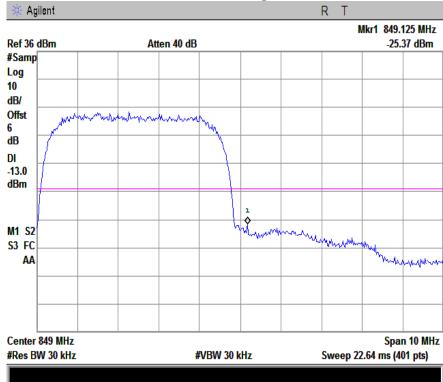
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UMTS-FDD Band V, Low Channel



Note: Offset=Cable loss (4.0) + 10log (47/30)=4.0+2=6 dB

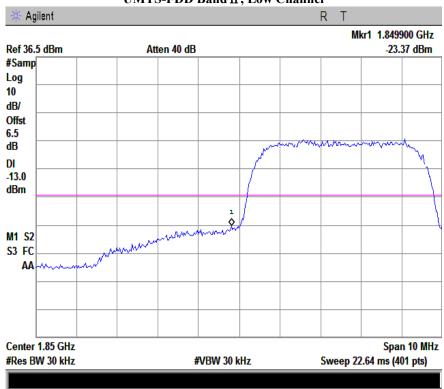
UMTS-FDD Band V, High Channel



Note: Offset=Cable loss (4.0) + 10log (47/30)=4.0+2=6 dB

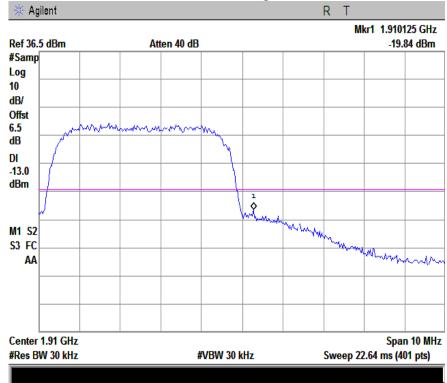
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UMTS-FDD Band II, Low Channel



Note: Offset=Cable loss (4.5) + 10log (47/30)=4.5+2=6.5 dB

UMTS-FDD Band II, High Channel



Note: Offset=Cable loss (4.5) + 10log (47/30)=4.5+2=6.5 dB

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5.8 §2.1055, §22.355 & §24.235 - Frequency Stability

 1.
 Environmental Conditions
 Temperature
 24°C

 Relative Humidity
 50%

 Atmospheric Pressure
 1020mbar

2. Test date: May 19, 2014 Tested By: Wiky Jam

Standard Requirement:

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.

Procedures:

A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage.

Limit: The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Test Results: Pass

The test data please refer to report 14070223-FCC-R1.

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Frequency Stability versus Temperature: The Frequency tolerance of the carrier signal shall be maintained within 2.5ppm of the operating frequency over a temperature variation of -10°C to +55°C at normal supply voltage.

Cellular Band (Part 22H)

_	Middle Channel, f _o = 836.6 MHz					
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)		
-10		5	0.0060	2.5		
0		14	0.0167	2.5		
10	3.7	10	0.0120	2.5		
20		-11	0.0131	2.5		
30		-13	0.0155	2.5		
40		15	0.0179	2.5		
50		17	0.0203	2.5		
55		-9	0.0108	2.5		
25	4.2	18	0.0215	2.5		
25	3.5	-15	0.0179	2.5		

PCS Band (Part 24E)

	Middle Channel, f ₀ = 1880 MHz					
Temperature (°C)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)		
-10		15	0.0080	2.5		
0		21	0.0112	2.5		
10		-16	0.0085	2.5		
20		-17	0.0090	2.5		
30	3.7	-14	0.0074	2.5		
40		25	0.0133	2.5		
50		10	0.0053	2.5		
55		-7	0.0037	2.5		
25	4.2	14	0.0074	2.5		
25	3.5	-12	0.0064	2.5		



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UMTS-FDD Band V (Part 22H)

Middle Channel, f _o = 835 MHz					
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		14	0.0168	2.5	
0		7	0.0084	2.5	
10		9	0.0108	2.5	
20		10	0.0120	2.5	
30	3.7	13	0.0156	2.5	
40		10	0.0120	2.5	
50		15	0.0180	2.5	
55	55	9	0.0108	2.5	
25	4.2	17	0.0204	2.5	
23	3.5	5	0.0060	2.5	

UMTS-FDD Band II (Part 24E)

	Middle Channel, f _o = 1880 MHz					
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)		
-10		5	0.0027	2.5		
0		7	0.0037	2.5		
10		8	0.0043	2.5		
20		6	0.0032	2.5		
30	3.7	14	0.0074	2.5		
40		12	0.0064	2.5		
50		7	0.0037	2.5		
55		13	0.0069	2.5		
25	4.2	15	0.0080	2.5		
23	3.5	9	0.0048	2.5		



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Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibration Date	Calibration Due Date
RF conducted test				
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/17/2013	09/16/2014
Power Splitter	1#	1#	09/02/2013	09/01/2014
Universal Radio Communication Tester	CMU200	121393	09/17/2013	09/16/2014
Temperature/Humidity Chamber	UHL-270	001	10/22/2013	10/21/2014
DC Power Supply	E3640A	MY40004013	09/17/2013	09/16/2014
Radiated Emissions				
EMI test receiver	ESL6	100262	11/23/2013	11/22/2014
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/02/2013	09/01/2014
Microwave Preamplifier (0.5~18GHz)	PAM-118	443008	09/02/2013	09/01/2014
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/23/2013	09/22/2014
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/23/2013	09/22/2014
Double Ridge Horn Antenna	AH-118	71259	11/20/2013	11/19/2014
(1 ~18GHz)				
Double Ridge Horn Antenna	AH-118	71283	11/20/2013	11/19/2014
(1 ~18GHz)				
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/17/2013	09/16/2014
Tunable Notch Filter	3NF- 800/1000-S	AA4	09/02/2013	09/01/2014
Tunable Notch Filter	3NF- 1000/2000-S	AM 4	09/02/2013	09/01/2014

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Annex A. ii. RADIATED EMISSIONS TEST DESCRIPTION

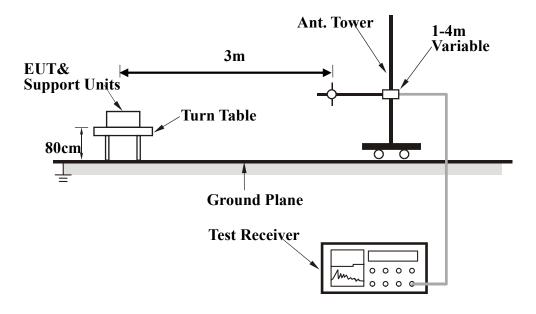
EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 1GHz (for FCC tests, until the 10^{th} harmonic for operating frequencies ≥ 108 MHz),, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m or 10m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS) or EMC 3m chamber.

Test Set-up

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
- 2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
- 3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



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Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

- 1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
- 2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
- 3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

Final Radiated Emission Measurement

- 1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
- 2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site or EMC 10m chamber. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
- 3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
- 4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
- 5. Repeat step 4 until all frequencies need to be measured were complete.
- 6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

	Frequency Band	Function	Resolution bandwidth	Video Bandwidth
(MHz)				
	30 to 1000	Peak	100 kHz	100 kHz
	A have 1000	Peak	1 MHz	1 MHz
	Above 1000	Average	1 MHz	10 Hz

Description of Radiated Emission Program

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the scan on four different antenna heights, 2 antenna polarity, and 360 degrees table rotation. For example, the program was set to run 30 MHz to 1 GHz scan; the program will first start from a meter antenna height and divide the 30 MHz to 1 GHz into 10 separate parts of maximum hold sweeps. Each parts of maximum hold sweep, the program will collect the data from 0 degree to 360 degrees table rotation. After the program complete the 1m scan, the antenna continues to rise to 2m and continue the scan. The step will repeated for all specified antenna height and polarity. This program will perform the Quasi Peak measurement after the signal maximization process and pre-scan routine. The final measurement will be base on the pre-scan data reduction result.

Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

Peak = Reading + Corrected Factor

where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any) And the average value is

> Average = Peak Value + Duty Factor or Set RBW = 1MHz, VBW = 10Hz.

Note:

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.



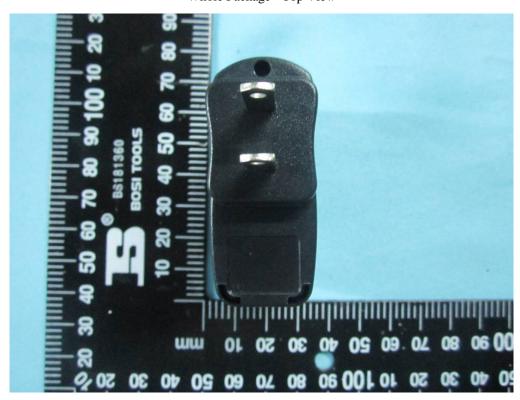
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Annex B. EUT AND TEST SETUP PHOTOGRAPHS

Annex B.i. Photograph 1: EUT External Photo



Whole Package - Top View



Adapter - Front View

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Title: RF Test Report for Smart Mobile Phone
Main Model: TRANS I
Serial Model: N/A
To: FCC Part 22(H) & FCC Part 24(E): 2013

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EUT - Front View



EUT - Rear View

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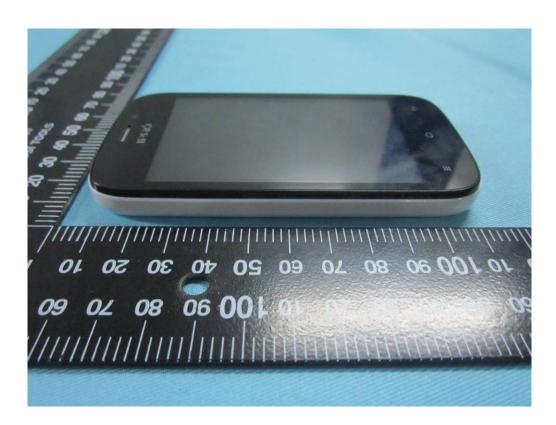


EUT - Top View



EUT - Bottom View

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EUT - Left View



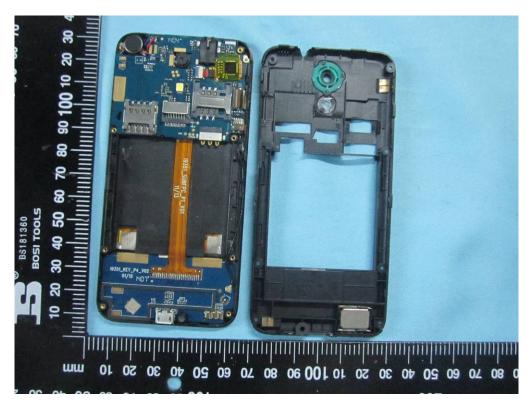
EUT - Right View



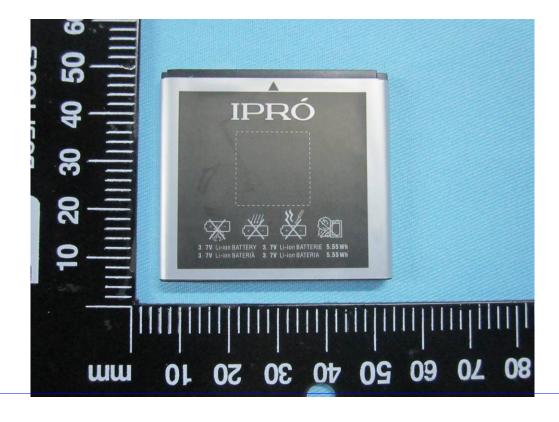
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Annex B.ii. Photograph 2: EUT Internal Photo

Cover Off - Top View 1



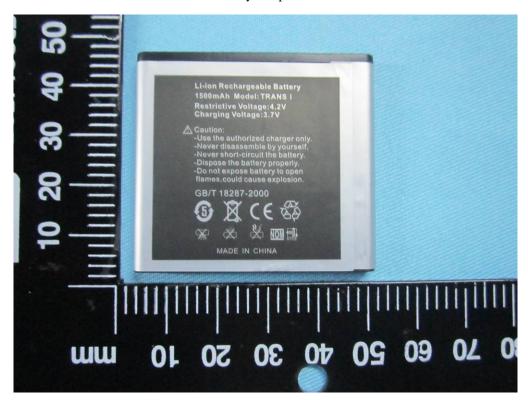
Cover Off - Top View 2





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Battery - Top View



Battery - Bottom View

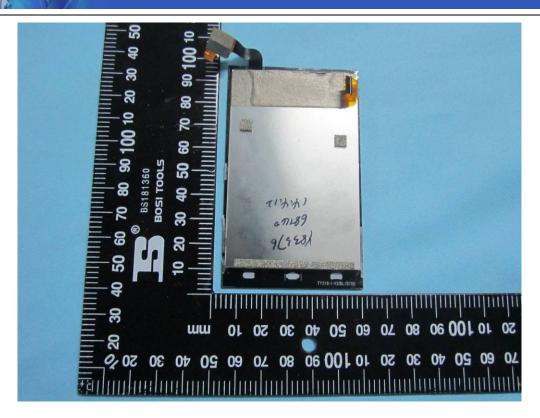


LCD - Front View

SIEMIC, INC.

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RF Test Report for Smart Mobile Phone
Main Model: TRANS I
Serial Model: N/A
To: FCC Part 22(H) & FCC Part 24(E): 2013

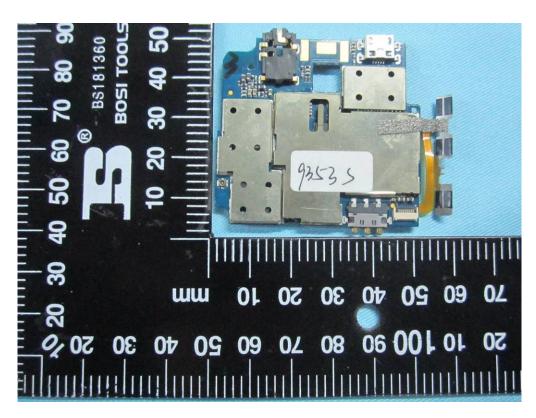
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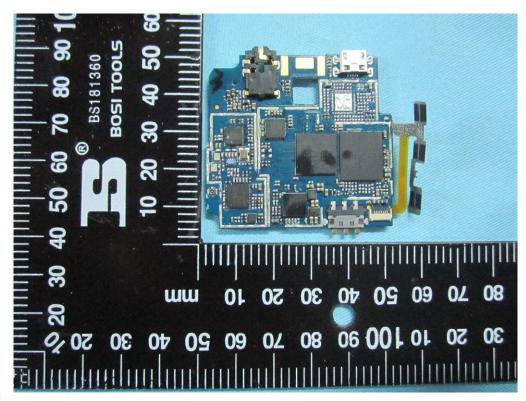
LCD - Rear View



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Mainborad With Shielding - Front View



Mainborad Without Shielding - Front View

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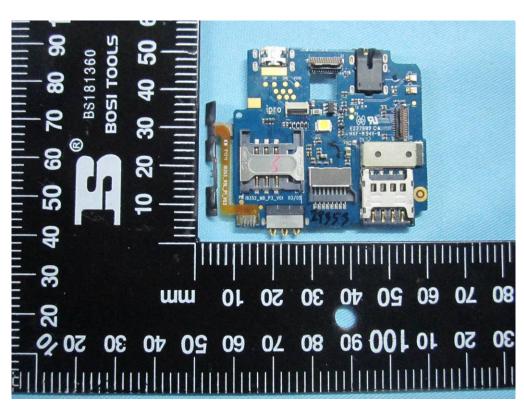
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RF Test Report for Smart Mobile Phone
Main Model: TRANS I

Serial Model: N/A

To: FCC Part 22(H) & FCC Part 24(E): 2013

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Mainborad - Rear View



BT/BLE/WIFI Antenna View

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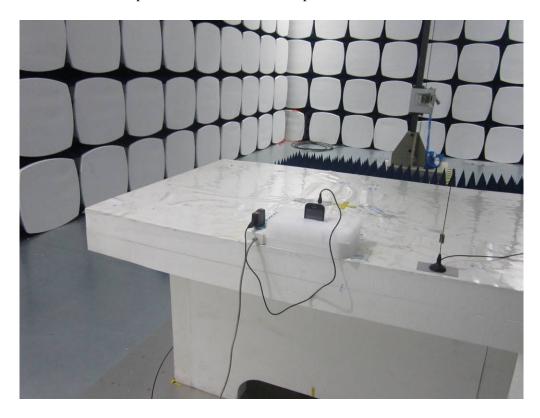
GSM/PCS/UMTS-FDD Antenna

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Annex B.iii. Photograph 3: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz - Front View



Radiated Spurious Emissions Test Setup Above 1GHz -Front View



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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

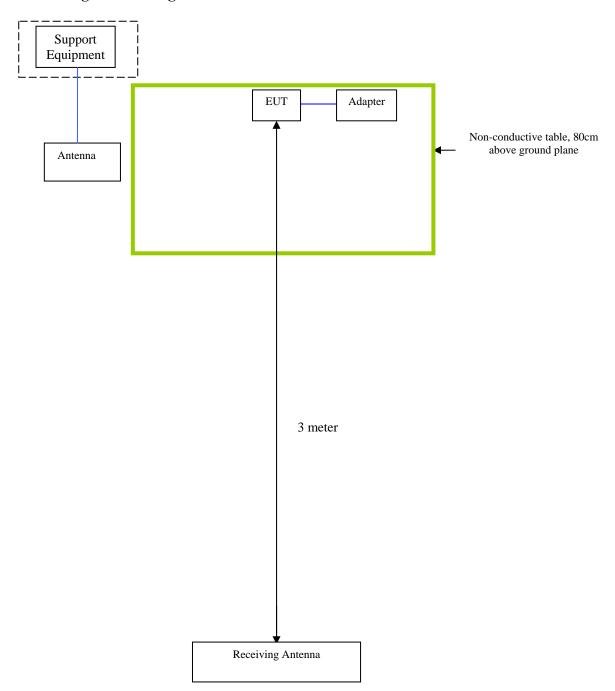
EUT TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description (Including Brand Name)	Model	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A

Block Configuration Diagram for Radiated Emissions





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Annex C.ii. EUT OPERATING CONDITIONS

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	The EUT was communicating with base station and set to work at maximum output power.
Others Testing	The EUT was communicating with base station and set to work at maximum output power.



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Annex D.USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

Please see attachment

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Annex E. DECLARATION OF SIMILARITY



To: SIEMIC, 775 Montague Expressway. Milpitas, CA 95035, USA

Declaration Letter

Dear Sir,

We declare that there is no electrical change has been made to the equipment that alters the compliance characteristics. The difference between model TRANS I and original model TRANS II in the report 14070223 which was granted by SIEMIC are following:

- Change the appearance of material;
- Change the GSM, WCMDA antenna appearance. Antenna location, Gain and type are the same.

Thank you!

Sissy

Printed name/title: sissy / Manager

Tel: +86-755-83496450 Fax: +86-755-83496050

Address: 8th Floor, B Bldg. Dianzi Fuhua Jidi, Taojindi, Longsheng community, Longhua

District Shenzhen