FCC PART 15 TEST REPORT

For

GSM and **GPRS** Digital Mobile Phone

Model Name: GM606 Brand Name: GOWELL

Model Name: RMP-606GMW Brand Name: RIVIERA

FCC ID: YOQ-RMP606GMW

Report No.: AGC11421007SZ04-2F1

Date of Issue: Aug.05, 2010

Prepared For

AUDIOVISION ELECTRONICA AUDIOELEC S.A.

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TABLE OF CONTENTS

1. Verification of compliance	2
2. Product information	3
3. Test facility	4
4. Support equipment list	5
5. System description	5
6. FCC Line conducted emission test	6
6.1. Test equipment of line conducted emission test	6
6.2 .Limits of line conducted emission test	6
6.3. Block diagram of line conducted emission test	6
6.4. procedure of line conducted emission test	7
6.5 Test result of line conducted emission test	7
7. FCC Radiated emission test	. 10
7.1. Test equipment of radiated emission	. 10
7.2. Limits of radiated emission test	. 10
7.3 Block diagram of radiated emission test	. 10
7.4 Procedure of radiated emission test	. 11
7.5 Test result of radiated emission test	. 12
APPENDIX 1	. 16
PHOTOGRAPHS OF TEST SETUP	. 16
APPENDIX 2	. 18
DUOTOGD ADUS OF FUT	10

Page 2of 21

1. VERIFICATION OF COMPLIANCE

Equipment Under Test:	GSM and GPRS Digital Mobile Phon	e				
Model Number:	GM606	Brand Name: GOWELL				
Model Number:	RMP-606GMW	Brand Name: RIVIERA				
Model Different: Only the model name and brand name are different, the motherboard and function are the same.						
	AUDIOVISION ELECTRONICA AUD	IOELEC S.A.				
Applicant:	Km. 11 ½ Via a Daule, Lotizacion Inmaconsa, Calle B y Gama, 2do. Callejon 24 GUAYAQUIL, ECUADOR					
	Gowell Electronic (Huizhou) Co., Ltd					
Manufacturer:	Xiangshuihe Industrial Park, Dayawan District, Huizhou City, Guangdong Province, China					
Type of Test:	FCC Class B					
Measurement Procedure:	ANSI C63.4: 2009					
File Number:	AGC11421007SZ04-2F1					
Date of test:	Jul. 28, 2010 to Aug.05, 2010					
Deviation:	None					
Condition of Test Sample:	Normal					

The above equipment was tested by Attestation Of Global Compliance Co., Ltd. For compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2003 This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

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

Checked By:

Catherine Chen Aug.05, 2010

Kny 2hny

King Zhang Aug.05, 2010

Page 3of 21

2. PRODUCT INFORMATION

Housing Type: Plastic

Rating Voltage: DC3.7V by battery

I/O Port Information (⊠Applicable □Not Applicable)

I/O Port of EUT									
I/O Port Type Q'TY Cable Tested with									
USB PORT	1	1	1						

Page 4of 21

3. TEST FACILITY

2F., No.2 Building, Huafeng No.1 Technical Industrial Park, Sanwei, Xixiang, Baoan Location:

District, Shenzhen

There is one 3m semi-anechoic chamber for final test, the Line Conducted labs are **Description:**

constructed and calibrated to meet the FCC requirements in documents ANSI C63.4

and CISPR 22/EN 55022 requirements.

Accredited by FCC, June 28, 2010

Site Filing: The Certificate Registration Number is 259865

Instrument All measuring equipment is in accord with ANSI C63.4 requirements that meet industry

Tolerance: regulatory agency and accreditation agency requirement.

> Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For radiated emission test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of measurement up to 1GHz.

Ground Plane:

Page 5of 21

4. SUPPORT EQUIPMENT LIST

Device Type	Manufacturer	Model Name	Data Cable	Power Cable	
PC	HASEE	Q550S	N/A		
ADAPTER	LS	0335C2065	N/A		
MOUSE	TCL	HE72114A	N/A		

^{**}Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

5. SYSTEM DESCRIPTION

PC MODE:

- 1. Connect EUT to PC and to peripheral devices.
- 2. Set the EUT to USB mode, the EUT begins to work.
- 3. Make sure the EUT operates normally during the test.

CHARGER MODE:

- 1. Set the EUT to charger mode, the EUT begins to work.
- 2. Make sure the EUT operates normally during the test.

Page 6of 21

6. FCC LINE CONDUCTED EMISSION TEST

6.1. TEST EQUIPMENT OF LINE CONDUCTED EMISSION TEST

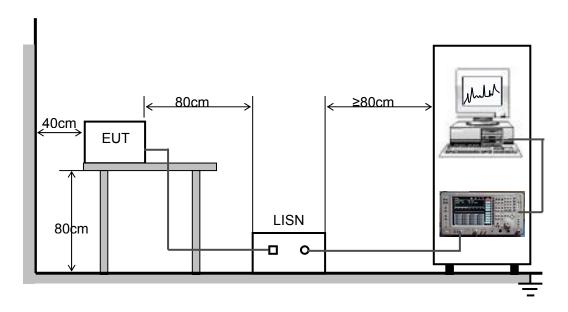
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4440A	N/A	06/29/2010	06/28/2011
EMI Test Receiver	H.P.	8546A	N/A	06/29/2010	06/28/2011
LISN	EMCO	3825/2	N/A	06/29/2010	06/28/2011

6.2 .LIMITS OF LINE CONDUCTED EMISSION TEST

_	Maximum RF	Line Voltage
Frequency	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

^{**}Note: 1. The lower limit shall apply at the transition frequency.

6.3. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

Page 7of 21

6.4. PROCEDURE OF LINE CONDUCTED EMISSION TEST

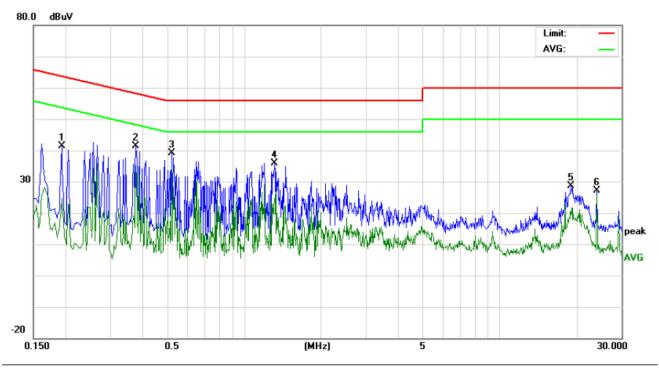
- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) The EUT received power through a Line Impedance Stabilization Network (LISN) that was grounded to the protect earth.
- 5) All support equipments received AC120V power from a second LISN, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.
- 10) Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 11) The test data of the worst case condition(s) was reported on the Summary Data page.

6.5 TEST RESULT OF LINE CONDUCTED EMISSION TEST

Page 8of 21

CHARGER MODE:

LINE CONCUTED EMISSION TEST LINE 1-L



Site: Conduction Phase: L1 Temperature: 26
Limit: FCC Class B Conduction Power: AC 110V/60Hz Humidity: 60 %

EUT: MOBILE PHONE

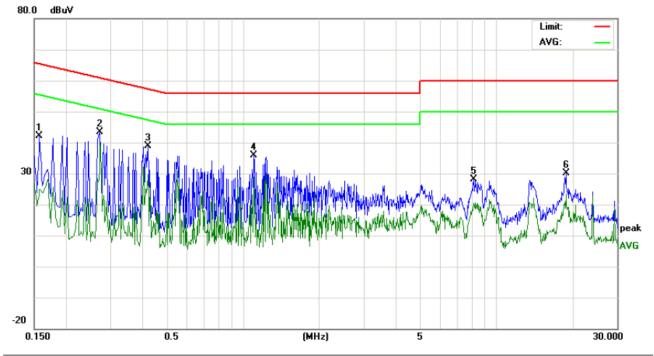
M/N:

Mode: GM606

No.	Freq.				Correct Measurement Factor (dBuV)			Limit Margin (dBuV) (dB)		-	P/F	Comment		
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1940	31.27		14.34	10.20	41.47		24.54	63.86	53.86	-22.39	-29.32	Р	
2	0.3780	31.08		25.03	10.20	41.28		35.23	58.32	48.32	-17.04	-13.09	Р	
3	0.5220	29.01		24.05	10.20	39.21		34.25	56.00	46.00	-16.79	-11.75	Р	
4	1.3180	25.56		13.35	10.20	35.76		23.55	56.00	46.00	-20.24	-22.45	Р	
5	19.0700	18.55		9.17	10.12	28.67		19.29	60.00	50.00	-31.33	-30.71	Р	
6	24.0180	17.10		15.51	10.11	27.21		25.62	60.00	50.00	-32.79	-24.38	Р	

Page 9of 21

LINE CONCUTED EMISSION TEST LINE 1-N



Site: Conduction Phase: N Temperature: 26
Limit: FCC Class B Conduction Power: AC 110V/60Hz Humidity: 60 %

EUT: MOBILE PHONE

M/N:

Mode: GM606

Note:

No.	Freq.	Rea	Reading_Level (dBuV)		Correct Factor	Measurement (dBuV)			nit u∀)	Mai (c	rgin IB)	P/F	Comment	
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1580	25.50		16.73	10.20	35.70		26.93	65.56	55.56	-29.86	-28.63	Р	
2	0.2740	33.27		29.90	10.20	43.47		40.10	60.99	50.99	-17.52	-10.89	Р	
3	0.4220	28.73		19.30	10.20	38.93		29.50	57.41	47.41	-18.48	-17.91	Р	
4	1.1100	25.66		18.62	10.20	35.86		28.82	56.00	46.00	-20.14	-17.18	Р	
5	8.1500	17.89		10.25	10.20	28.09		20.45	60.00	50.00	-31.91	-29.55	Р	
6	18.8580	19.98		13.23	10.12	30.10		23.35	60.00	50.00	-29.90	-26.65	Р	

TEST RESULT: PASS

Page 10of 21

7. FCC RADIATED EMISSION TEST

7.1. TEST EQUIPMENT OF RADIATED EMISSION

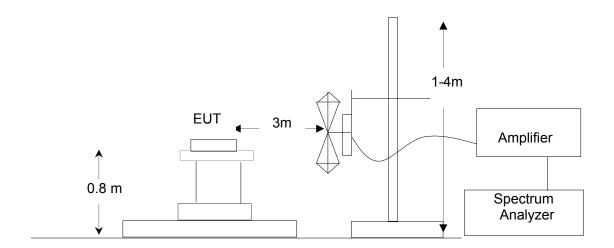
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI test receiver	H.P.	8546A	N/A	06/29/2010	06/28/2011
Amplifier	H.P.	8447D	N/A	06/29/2010	06/28/2011
Antenna	EMCO	85650A	N/A	06/29/2010	06/28/2011
CABLE	TIME MICROWAVE	LMR-400	N/A	06/29/2010	06/28/2011

7.2. LIMITS OF RADIATED EMISSION TEST

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m/ Q.P.)
30~88	3	40.0
88~216	3	43.5
216~960	3	46.0
Above 960	3	54.0

^{**}Note: The lower limit shall apply at the transition frequency.

7.3 BLOCK DIAGRAM OF RADIATED EMISSION TEST



Page 11of 21

7.4 PROCEDURE OF RADIATED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) The EUT received DC 3.7V from USB or battery. All support equipments received AC 120V/60Hz power from socket under the turntable, if any.
- 5) The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- 6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- 7) The test mode(s) were scanned during the test:
- 8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.

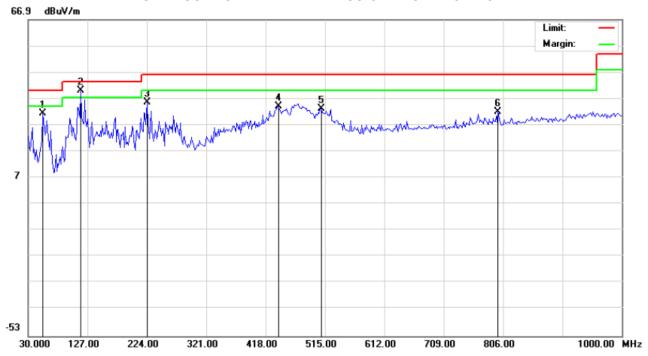
The test data of the worst case condition(s) was reported on the Summary Data page.

Page 12of 21

7.5 TEST RESULT OF RADIATED EMISSION TEST

PC MODE:

TEST RESULT OF RADIATED EMISSION TEST - HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation Power: AC 110V/60Hz Humidity: 60 %

EUT: MOBILE PHONE Distance: 3m

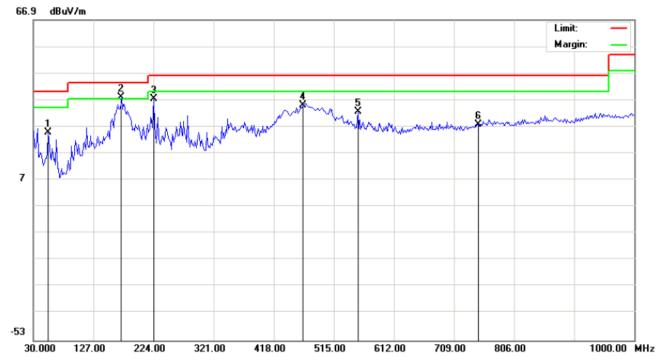
M/N:

Mode: GM606

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		54.2500	22.91	8.52	31.43	40.00	-8.57	peak			
2	*	115.6833	22.38	17.73	40.11	43.50	-3.39	peak			
3		224.0000	20.96	14.50	35.46	46.00	-10.54	peak			
4		439.0167	12.61	21.48	34.09	46.00	-11.91	peak			
5		508.5333	9.79	23.29	33.08	46.00	-12.92	peak			
6		797.9167	4.05	28.05	32.10	46.00	-13.90	peak			

Page 13of 21

TEST RESULT OF RADIATED EMISSION TEST -VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation Power: AC 110V/60Hz Humidity: 60 %

EUT: MOBILE PHONE Distance: 3m

M/N:

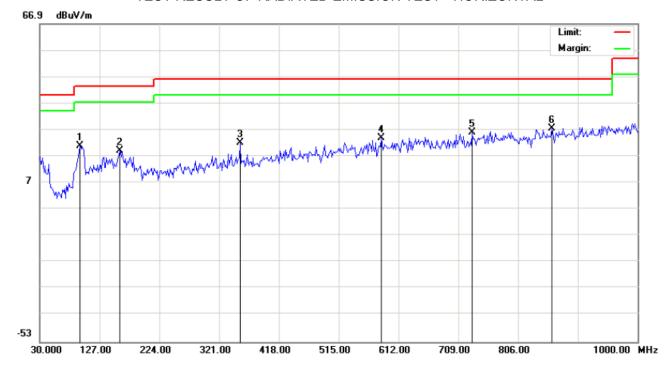
Mode: GM606

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		54.2500	16.35	8.52	24.87	40.00	-15.13	peak			
2	*	172.2666	18.03	19.80	37.83	43.50	-5.67	peak			
3		224.0000	22.79	14.50	37.29	46.00	-8.71	peak			
4		464.8833	13.40	21.61	35.01	46.00	-10.99	peak			
5		553.8000	8.47	24.02	32.49	46.00	-13.51	peak			
6		747.8000	0.34	27.35	27.69	46.00	-18.31	peak			

Page 14of 21

CHARGER MODE

TEST RESULT OF RADIATED EMISSION TEST - HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation Power: AC 110V/60Hz Humidity: 60 %

EUT: MOBILE PHONE Distance: 3m

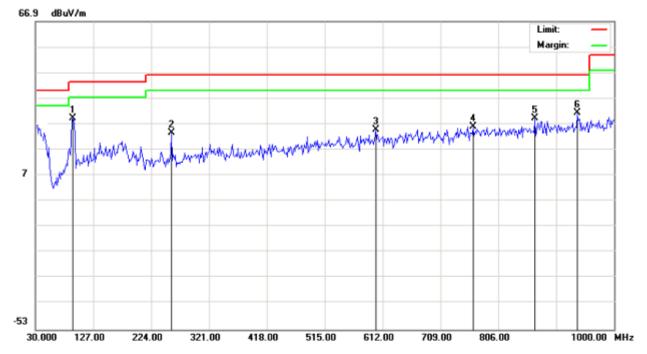
M/N:

Mode: GM606

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		94.6667	6.95	13.91	20.86	43.50	-22.64	peak			
2		159.3333	-0.92	20.11	19.19	43.50	-24.31	peak			
3		354.9500	2.89	19.03	21.92	46.00	-24.08	peak			
4		584.5167	-0.79	24.73	23.94	46.00	-22.06	peak			
5		731.6333	-0.59	26.43	25.84	46.00	-20.16	peak			
6	*	860.9667	-1.73	29.16	27.43	46.00	-18.57	peak			

Page 15of 21

TEST RESULT OF RADIATED EMISSION TEST -- VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation Power: AC 110V/60Hz Humidity: 60 %

EUT: MOBILE PHONE Distance: 3m

M/N:

Mode: GM606

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	93.0500	15.78	13.36	29.14	43.50	-14.36	peak			
2		257.9500	6.34	17.22	23.56	46.00	-22.44	peak			
3		600.6833	-0.04	24.92	24.88	46.00	-21.12	peak			
4		763.9666	-1.92	27.84	25.92	46.00	-20.08	peak			
5		867.4333	0.02	29.19	29.21	46.00	-16.79	peak			
6		938.5667	1.20	30.25	31.45	46.00	-14.55	peak			

Page 16of 21

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

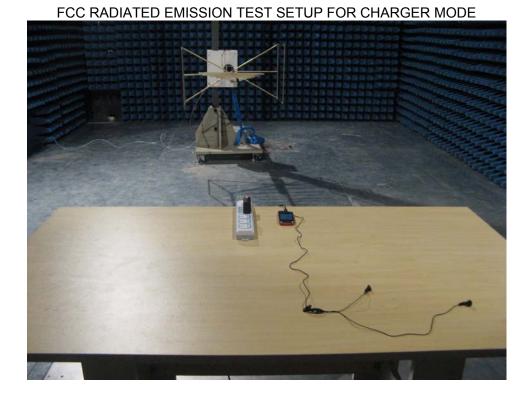
FCC CONDUCTED EMISSION TEST



FCC RADIATED EMISSION TEST SETUP FOR PC MODE



Report No.: AGC11421007SZ04-2F1 Page 17of 21



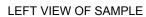
Report No.: AGC11421007SZ04-2F1 Page 18of 21

APPENDIX 2 PHOTOGRAPHS OF EUT



BOTTOM VIEW OF SAMPLE

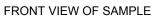






RIGHT VIEW OF SAMPLE







BACK VEIW OF SAMPLE

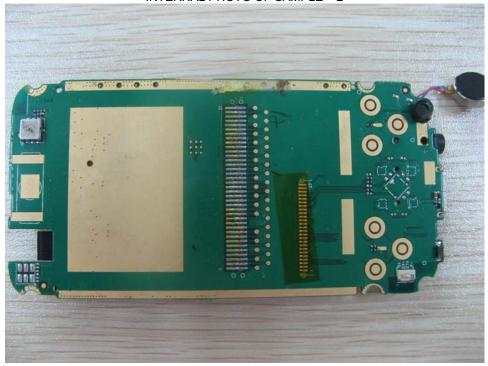


Report No.: AGC11421007SZ04-2F1 Page 21of 21





INTERNAL PHOTO OF SAMPLE – 2



---END OF REPORT---