



ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

UN-INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART B REQUIREMENT

OF

Product Name: ZTE H520 CDMA/GSM Dual-Mode Handset

Brand Name: ZTE

Model Name: ZTE H520

Model Differences: N/A

Report No.: ER/2007/90027

Issue Date: Oct 03, 2007

FCC Rule Part: Part 15 B

Prepared for: ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech
Industrial Park, Nanshan District, Shenzhen,
Guangdong, 518057, P.R.China

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial Zone,
Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Applicant: ZTE CORPORATION
ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan
District, Shenzhen, Guangdong, 518057, P.R.China

Product Description: ZTE H520 CDMA/GSM Dual-Mode Handset

Brand Name: ZTE

Model No.: ZTE H520

Model Difference: N/A

File Number: ER/2007/90027

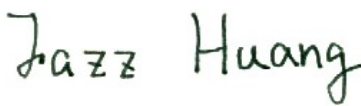
Date of test: Sep. 14, 2007 ~ Oct. 01, 2007

Date of EUT Receive: Sep. 13, 2007

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15B.

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

Test By:		Date	Oct 03, 2007
	Jazz Huang / Engineer		
Prepared By:		Date	Oct 03, 2007
	Gigi Yeh / Clerk		
Approved By:		Date	Oct 03, 2007
	Vincent Su/Manager		

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Version

Version No.	Date
00	Oct 03, 2007

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1. GENERAL INFORMATION

Type Name:	ZTE H520 CDMA/GSM Dual-Mode Handset	
Brand Name:	ZTE	
Model Name:	ZTE H520	
Model Difference:	N/A	
Data Cable:	N/A	
Simple Hands-Free (SHF):	N/A	
Power Supply:	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery Model:	Li3710T42P3h553457, Brand: ZTE
	Adaptor Model:	STC-A22O50F18-1, Brand: ZTE

CDMA:

Cellular Phone Standards Frequency Range and Power:	CDMA800	824 MHz– 849MHz	24 dBm
Type of Emission:	1M25F9W		
IMEI:	355626010000000		
Software Version:	C_NZ_H520_NNNN01NV1.0.0B02		
Hardware Version:	cg8C		

This test report applies for CDMA800

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC Part15 Subpart B is authorized under a DoC procedure.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 and CISPR 22/EN 55022 requirements. Site No. 1(3 &10 meters) Registration Number: 94644, Both OATS and Anechoic chamber (3 meters) was accredited by TAF (0513). Canada Registration Number: 4620A-1

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the normal continuous transmitting at CDMA mode.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 of ANSI C63.4-2003.

2.4 Limitation

(1) Conducted Emission

According to section 15.107(a) Conducted Emission Limits is as following.

Frequency range MHz	Class B Limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note		
1.The lower limit shall apply at the transition frequencies		
2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

(2) Radiated Emission

According to section 15.109(a) Radiated Emission Class B Limits is as following:

Frequency (MHz)	Field strength $\mu\text{V/m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V/m}$
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Standard	Date	Description
EN55022	1998+ A1:2000+ A2:2003	Limits and methods of measurement of radio interference characteristics of information technology equipment.

EN55022 Limit:

Frequency range MHz	Limits dBuV/m (10m)
	Quasi-peak
30 to 230	30
230 to 1000	37

- Remark: 1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.

2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

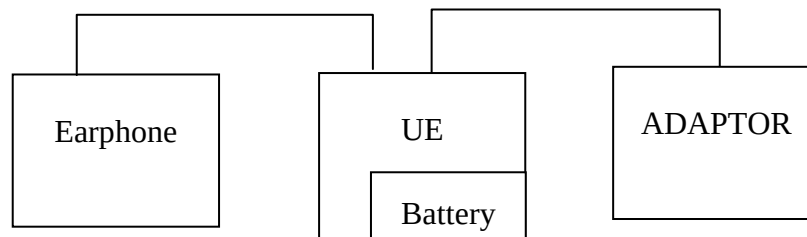


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Adaptor	ZTE	Li3710T42P3h553457,	100707073003660	120cm, shield	Un-shield
2.	Battery	ZTE	STC-A22050F18-1	GB/T 18287-2000	N/A	Un-shield
3.	Earphone	N/A	N/A	N/A	120cm, shield	Un-shield

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3. Summary of Test Results

FCC Rules	Description Of Test	Result
§15.107	Conducted Emission Class B	Compliant
§15.109	Radiated Emission Class B	Compliant

4. Description of test modes

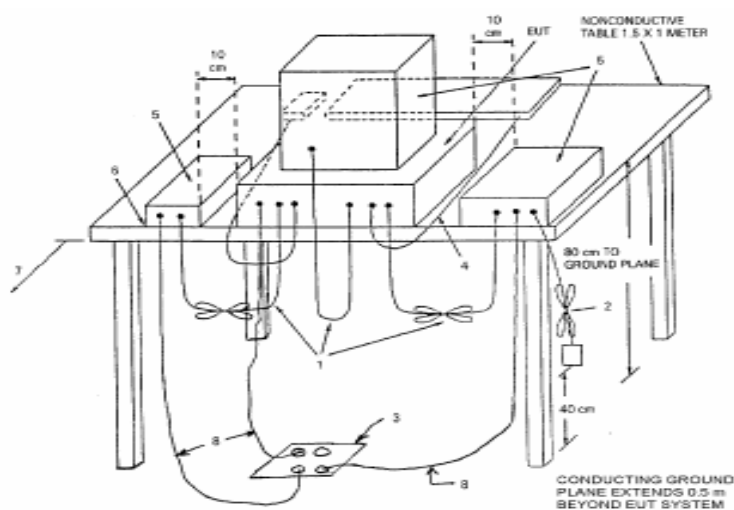
1. The EUT is stay in CDMA800 Link

5. Conducted Emissions Test

5.1 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)

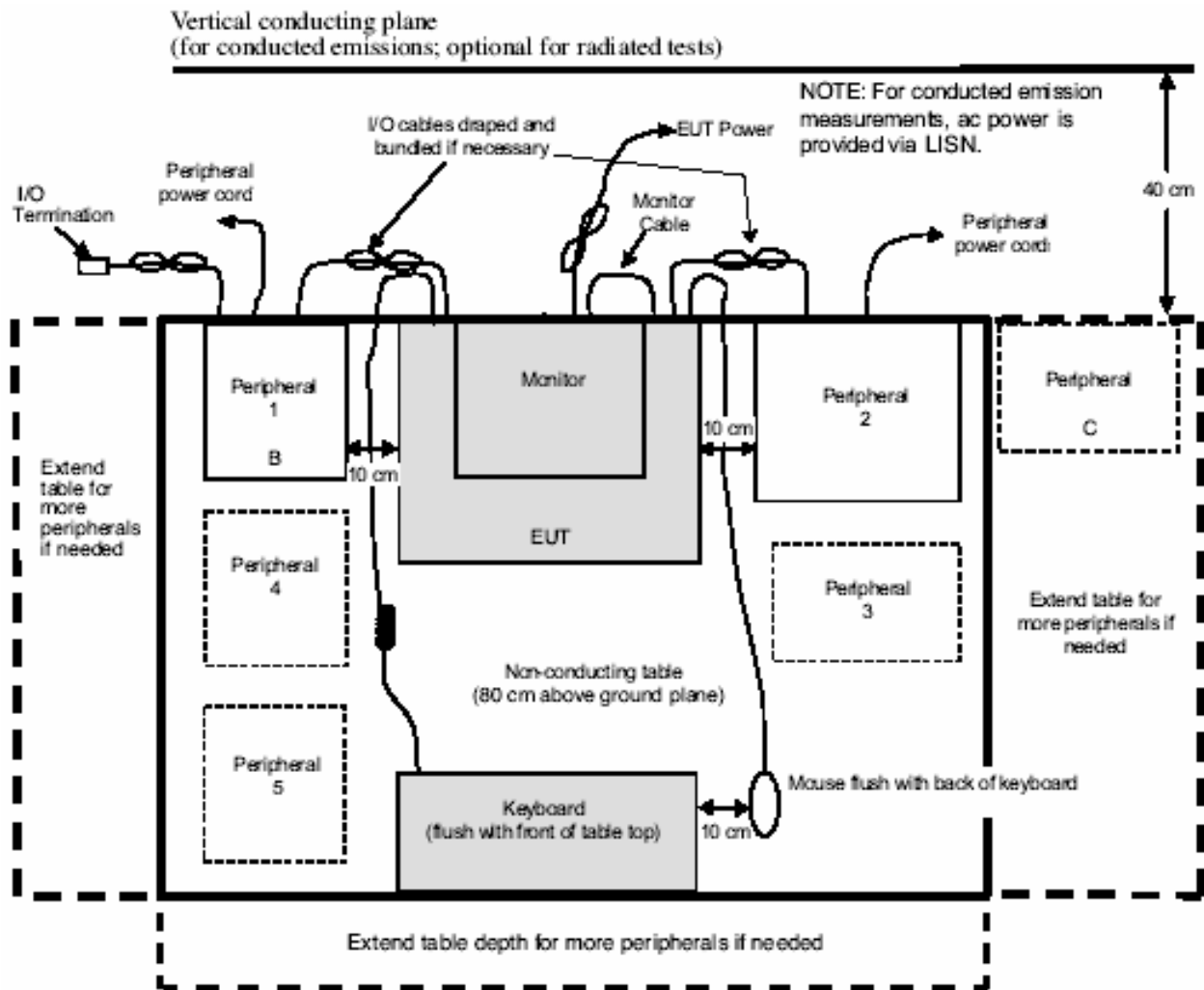


LEGEND:

- 1) Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center, forming a bundle 30 to 40 cm long (see 6.1.4 and 11.2.4).
- 2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated if required using the correct terminating impedance. The total length shall not exceed 1 m (see 6.1.4).
- 3) If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the groundplane with the receptacle flush with the groundplane (see 6.1.4).
- 4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use (see 6.2.1.3 and 11.2.4).
- 5) Non-EUT components of EUT system being tested (see also Figure 13).
- 6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop (see 6.2.1.1 and 6.2.1.2).
- 7) No vertical conducting plane used (see 5.2.2).
- 8) Power cords drape to the floor and are routed over to receptacle (see 6.1.4).

Figure 11a—Test arrangement for radiated emissions tabletop equipment

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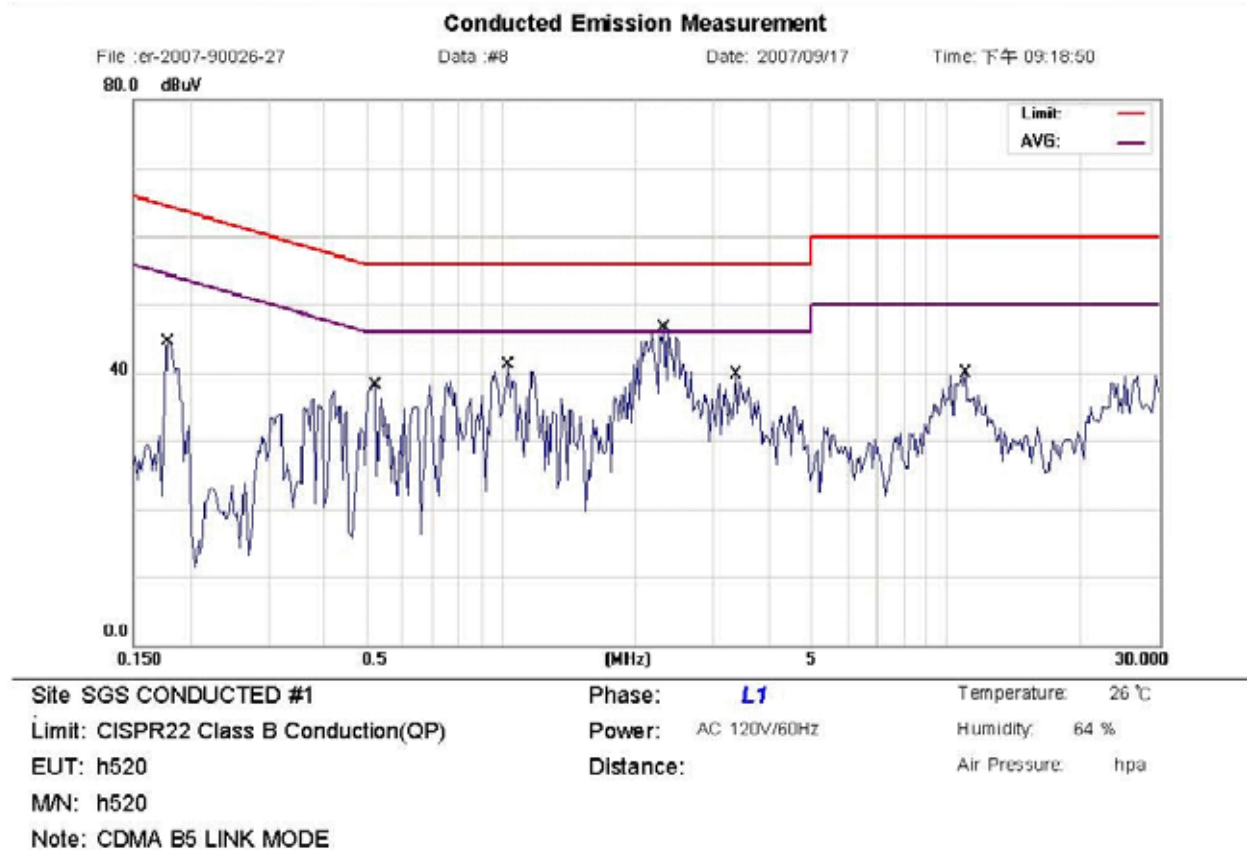


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5.3 Measurement Result:

Operation Mode : CDMA800 link
Fundamental Frequency : N/A
Temperature : 25°C
Humidity : 62%

Test Date Sep. 17, 2007
Test By Jazz
Pol Line



No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1796	43.94	0.49	44.43	64.50	-20.07	QP	
2		0.5238	38.17	0.02	38.19	56.00	-17.81	QP	
3		1.0430	41.05	0.01	41.06	56.00	-14.94	QP	
4	*	2.3336	42.50	0.05	42.55	56.00	-13.45	QP	
5		2.3336	31.84	0.05	31.89	46.00	-14.11	AVG	
6		3.3814	39.66	0.06	39.72	56.00	-16.28	QP	
7		11.0797	39.58	0.27	39.85	60.00	-20.15	QP	

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Operation Mode : CDMA800 link
Fundamental Frequency : N/A
Temperature : 25°C
Humidity : 62%

Test Date Sep. 17, 2007
Test By Jazz
Pol Neutral

Conducted Emission Measurement

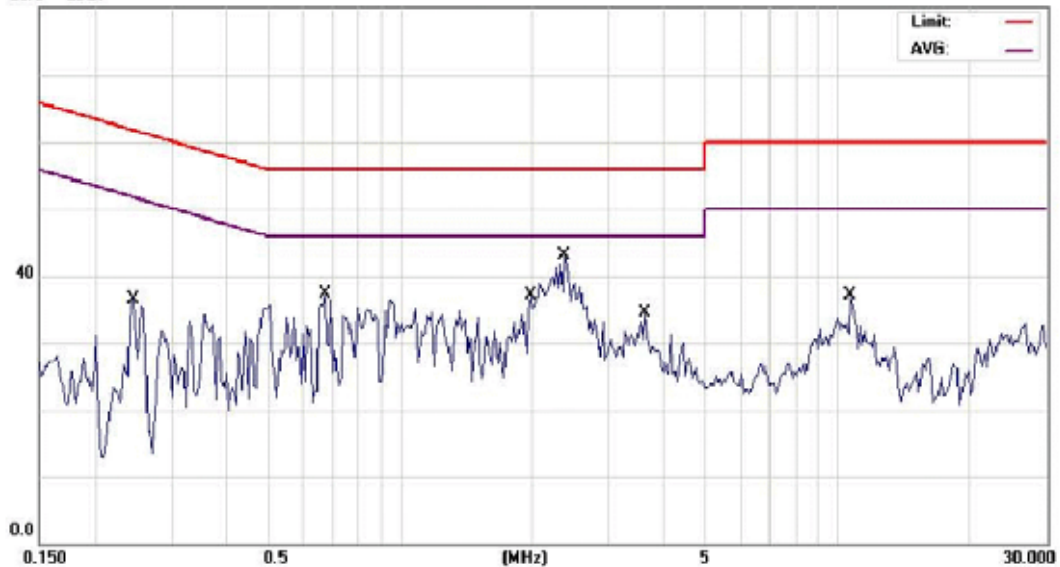
File : er-2007-90026-27

Data : #9

Date: 2007/09/17

Time: 下午 09:24:57

80.0 dBuV



Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: h520

MN: h520

Note: CDMA B5 LINK MODE

Phase: N

Power: AC 120V/60Hz

Distance:

Temperature: 26 °C

Humidity: 64 %

Air Pressure: hpa

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.2468	36.56	0.02	36.58	61.86	-25.28	QP	
2 *	0.6754	37.24	0.02	37.26	56.00	-18.74	QP	
3	1.9906	37.11	0.04	37.15	56.00	-18.85	QP	
4	2.3836	34.20	0.05	34.25	56.00	-21.75	QP	
5	2.3836	26.28	0.05	26.33	46.00	-19.67	AVG	
6	3.6418	34.38	0.07	34.45	56.00	-21.55	QP	
7	10.7330	36.77	0.24	37.01	60.00	-22.99	QP	

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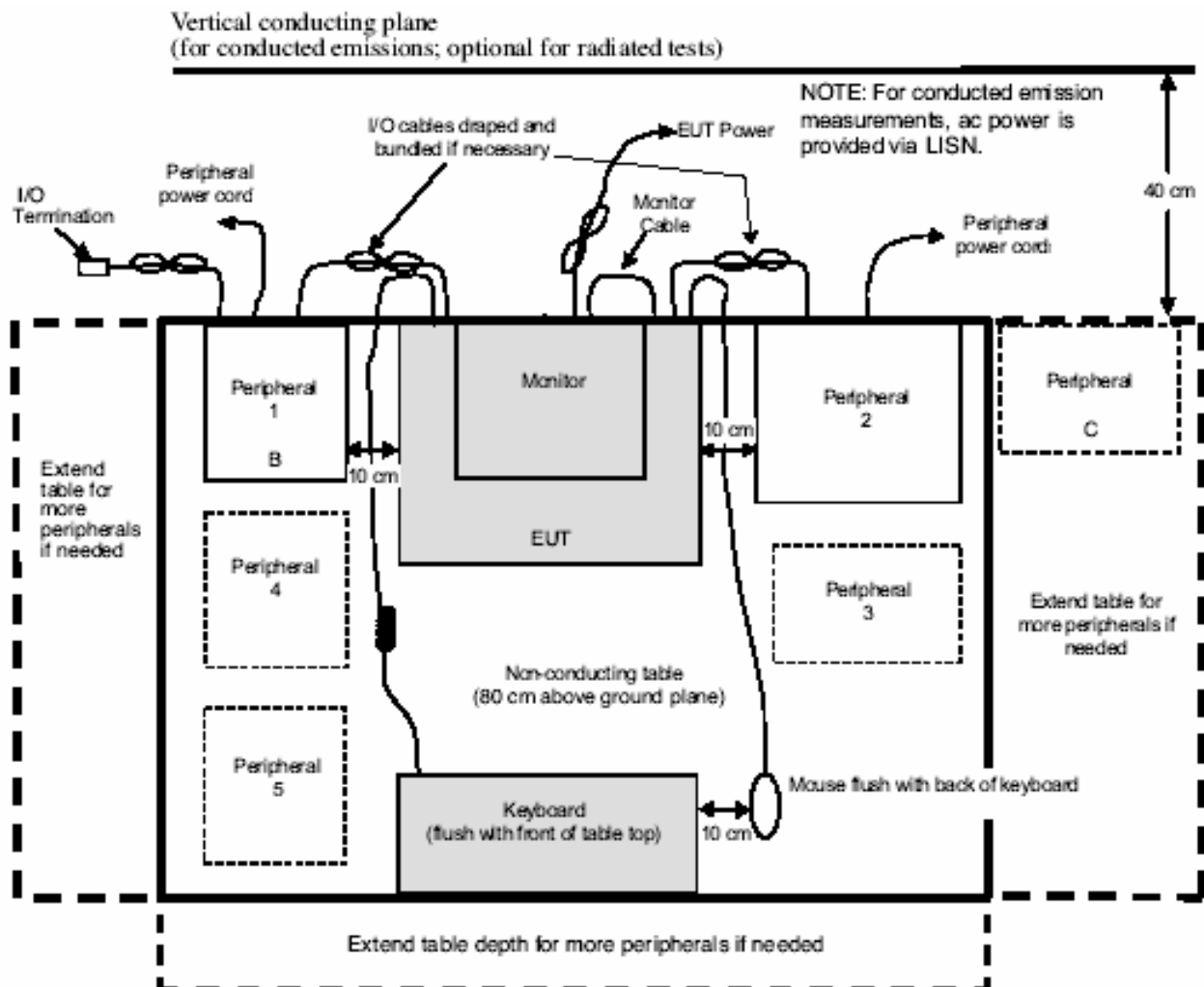
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6. Radiated Emission Test

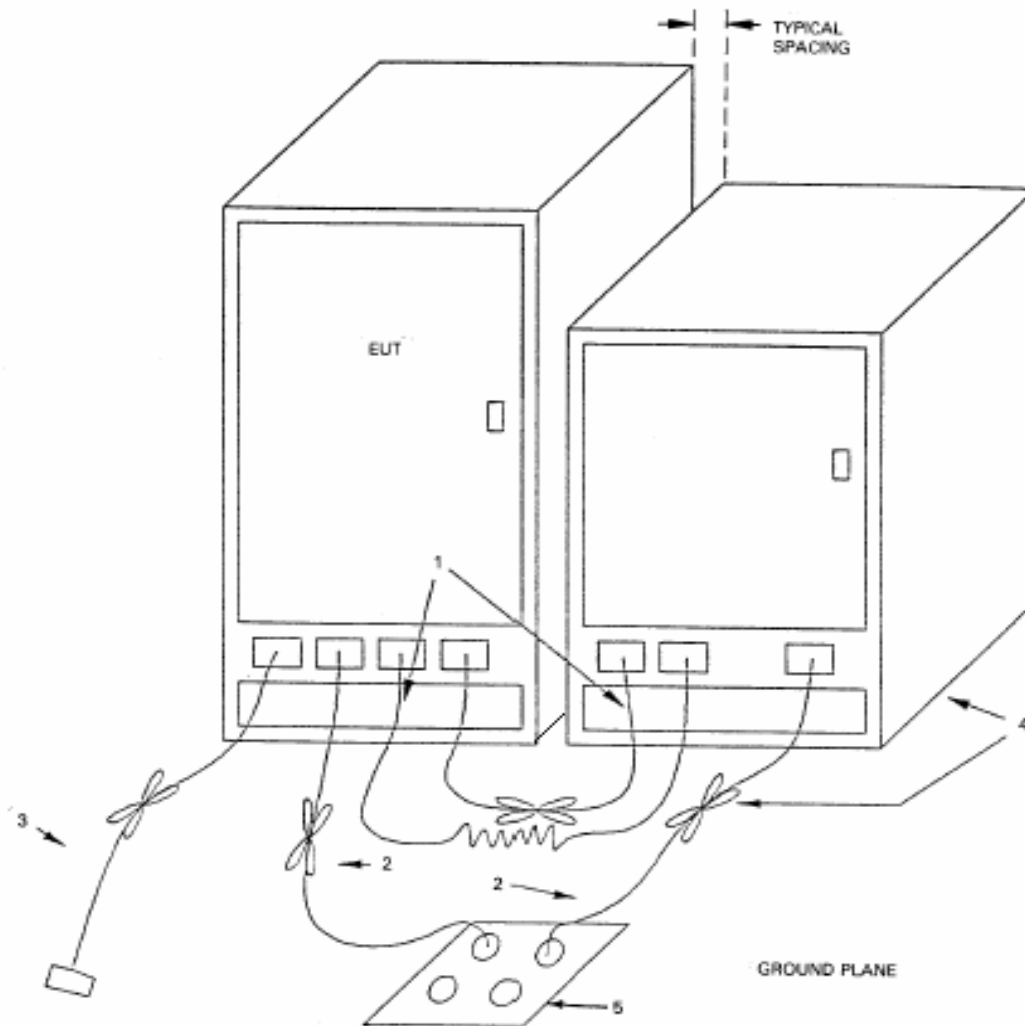
6.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)



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LEGEND:

- 1) Excess I/O cables shall be bundled in center. If bundling is not possible, the cables shall be arranged in serpentine fashion. Bundling not to exceed 40 cm in length (see 6.1.4).
- 2) Excess power cords shall be bundled in the center or shortened to appropriate length (see 7.2.1).
- 3) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. If bundling is not possible, the cable shall be arranged in a serpentine fashion (see 6.1.4).
- 4) EUT and all cables shall be insulated, if required, from the groundplane by up to 12 mm of insulating material (see 6.1.4 and 6.2.2).
- 5) If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the groundplane with the receptacle flush with the ground plane (see 5.2.3 and 8.1).

Figure 11b—Test arrangement for radiated emissions floor-standing equipment

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6.3 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	05/27/2007	05/26/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2007	08/27/2008
Loop Antenna	Messtec	FLA30	03/10086	03/06/2007	03/05/2008
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2007	06/02/2008
Bilog Antenna	SCHWAZBECK	VULB9160		06/03/2007	06/02/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2006	10/08/2007
Site NSA	SGS	966 chamber	N/A	11/17/2006	11/16/2007
Site NSA	SGS	10m Open-Site	N/A	10/02/2006	10/01/2007

6.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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6.5 Measurement Result

Test Mode: CDMA800 Link

Test Date : Sep. 27, 2007

Detector Function: Peak/QP

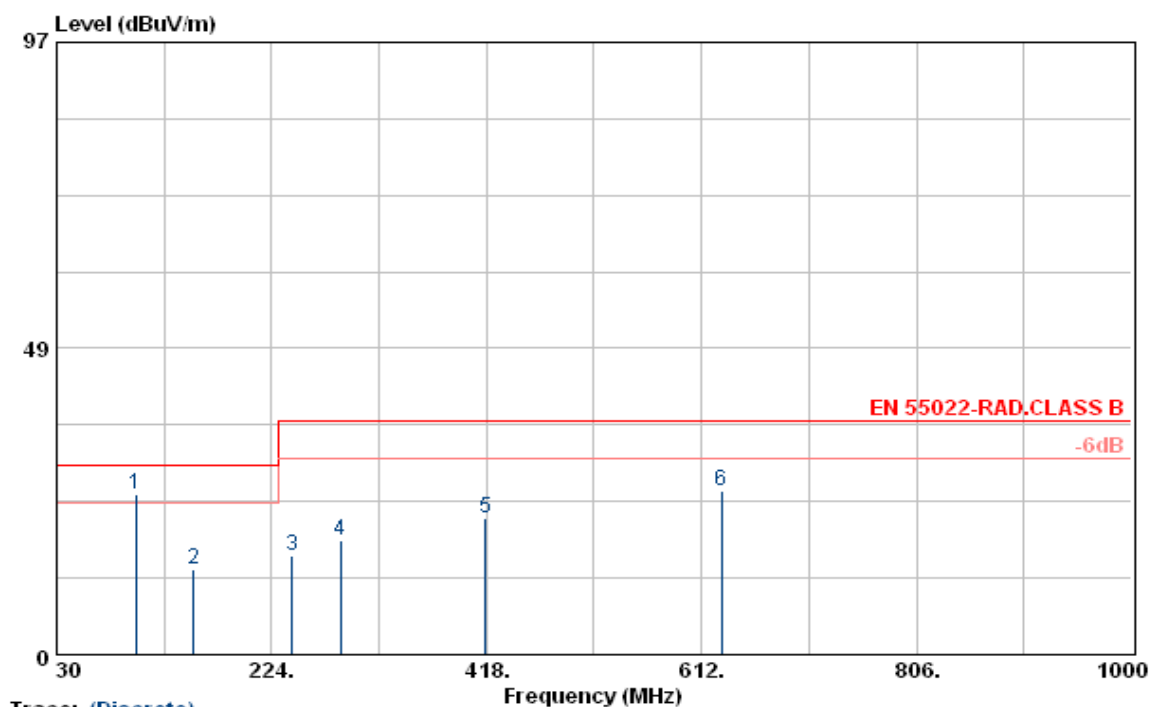
Test By: Jazz

Frequency Range: 30MHz-1000MHz

Temperature : 25 °C

Humidity : 65 %

Polarization: Vertical



Trace: (Discrete)

Site : RF Site
 Condition : EN 55022-RAD CLASS B 10m VERTICAL
 Project No. : EF/2007/90026
 Applicant : sgs shanghai branch
 EUT Description : h520
 EUT Model : h520
 Test Mode : CDMA 850 link rse ch mid 384 /h plan
 Temp./Humid. : 25/65
 Operator : jazz

	Freq	Read		Level	Limit	Over	
	MHz	Level	Factor	dBuV/m	Line	Limit	Remark
		dBuV	dB/m		dBuV/m	dB	
1	101.78	46.79	-21.30	25.49	30.00	-4.51	Peak
2	153.19	31.66	-18.07	13.59	30.00	-16.41	Peak
3	242.43	32.65	-17.10	15.55	37.00	-21.45	Peak
4	286.08	32.78	-14.68	18.10	37.00	-18.90	Peak
5	417.03	32.67	-11.18	21.49	37.00	-15.51	Peak
6	630.43	29.99	-4.14	25.85	37.00	-11.15	Peak

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Test Mode: CDMA800 Link

Test Date : Sep. 27, 2007

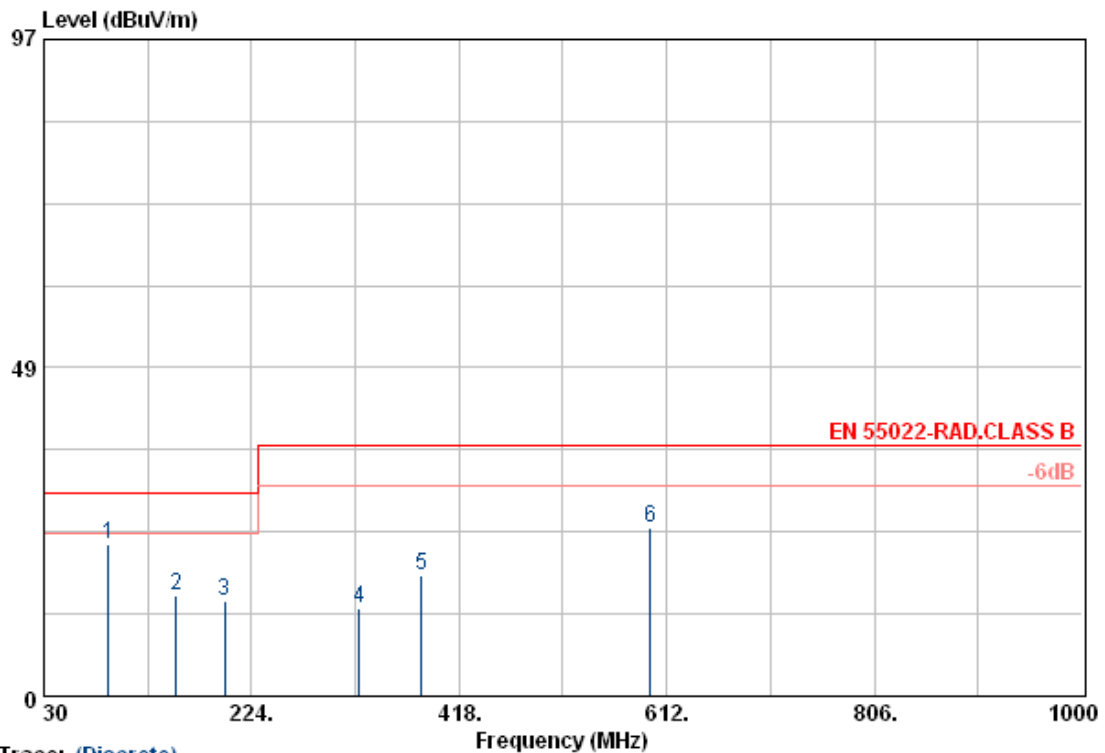
Detector Function: Peak/QP

Test By: Jazz

Frequency Range: 30MHz-1000MHz

Temperature : 25 °C Humidity : 65 %

Polarization: Horizontal



Trace: (Discrete)

Site : RF Site
 Condition : EN 55022-RAD.CLASS B 10m HORIZONTAL
 Project No. : EF/2007/90026
 Applicant : sgs shanghai branch
 EUT Description : h520
 EUT Model : h520
 Test Mode : CDMA 850 link rse ch mid 384 /h plan
 Temp./Humid. : 25/65
 Operator : jazz

	Freq	Read		Limit	Over	
	MHz	Level	Factor	Line	Limit	Remark
		dBuV	dB/m	dBuV/m	dBuV/m	dB
1	90.14	44.02	-21.63	22.39	30.00	-7.61 Peak
2	153.19	32.94	-18.07	14.87	30.00	-15.13 Peak
3	198.78	33.93	-19.94	13.99	30.00	-16.01 Peak
4	324.88	30.77	-17.89	12.88	37.00	-24.12 Peak
5	383.08	31.07	-13.21	17.86	37.00	-19.14 Peak
6	596.48	30.67	-5.80	24.87	37.00	-12.13 Peak

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Measurement Result Above 1GHz:

Test Mode: CDMA800 Link

Test Date : Sep. 27, 2007

Detector Function: Peak/AV

Test By: Jazz

Frequency Range: 1000MHz-26GHz

Temperature : 25 °C

Humidity : 65 %

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/AV)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
---	V	Peak					
---	H	Peak					

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Datas of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

APPENDIX 1

PHOTOGRAPHS OF SET UP

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Radiated Emission Test Setup Photo



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Conducted Emission Set up Photo



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APPENDIX 2

PHOTOGRAPHS OF EUT

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All View of EUT



Front View of EUT



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Back View of EUT



Site View of EUT-1



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Site View of EUT-2



Adapter



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Battery

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Open View of EUT – 1



Open View of EUT – 2

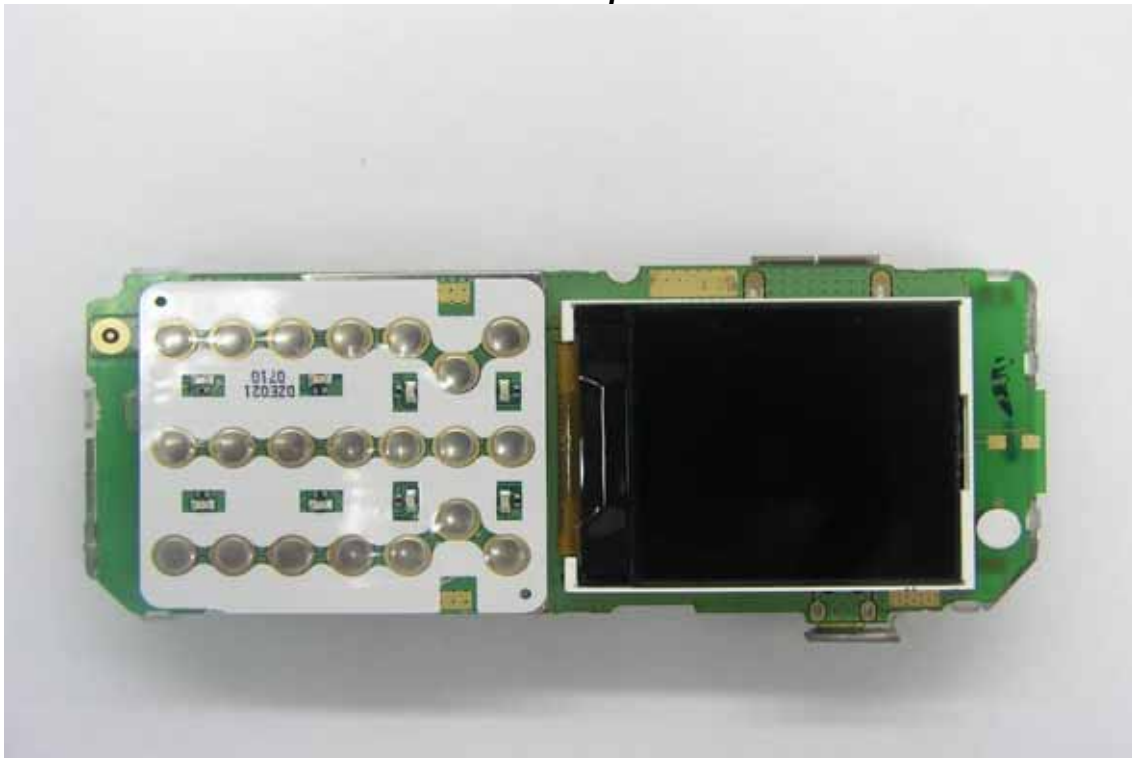


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Open View of EUT – 3



Internal View of EUT – 1

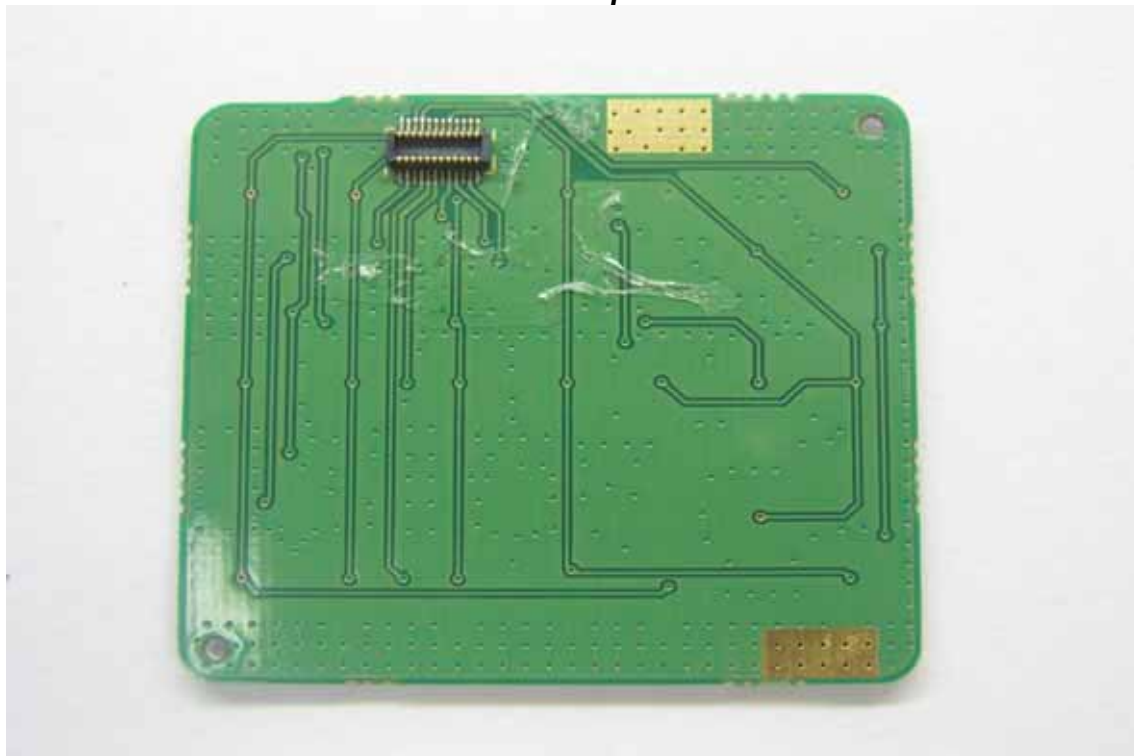


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Internal View of EUT – 2



Internal View of EUT – 3



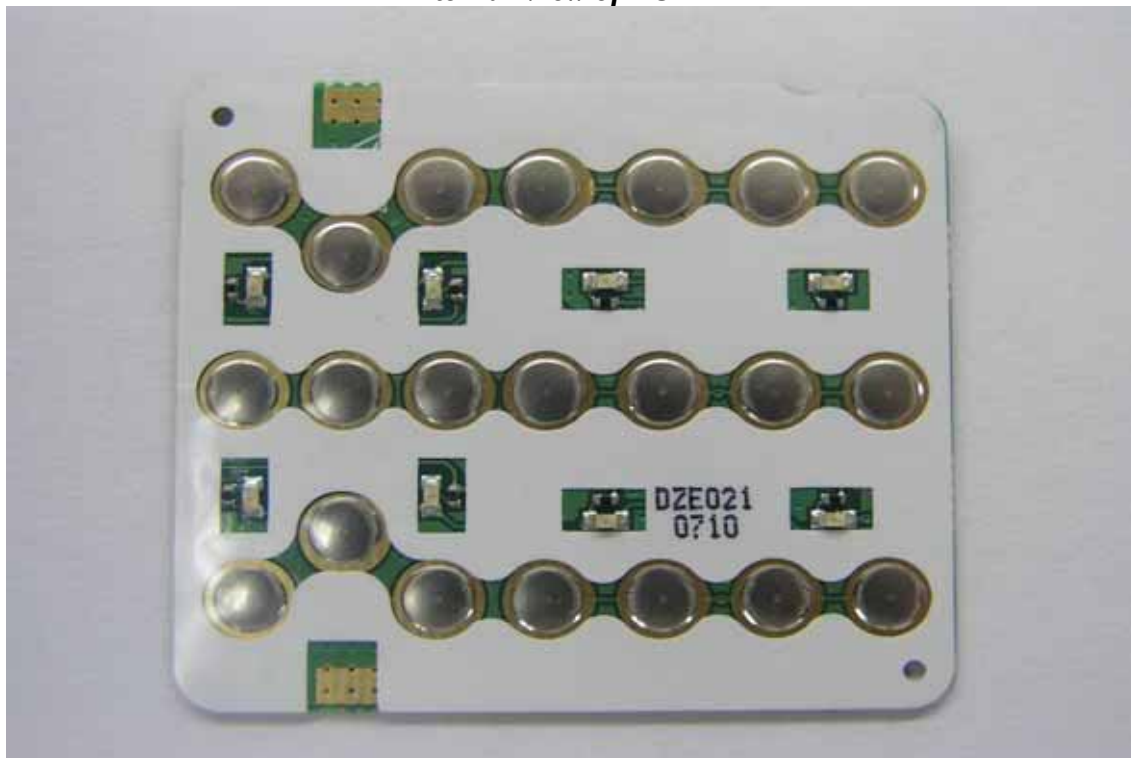
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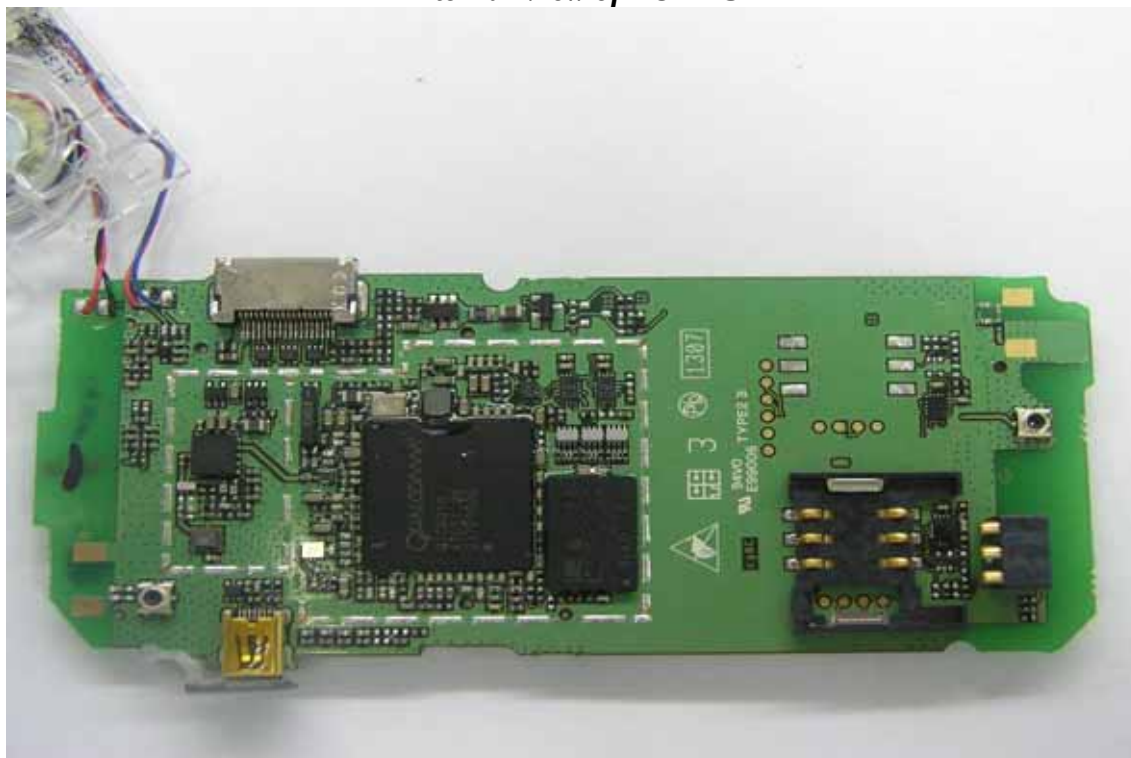
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Internal View of EUT – 4



Internal View of EUT – 5

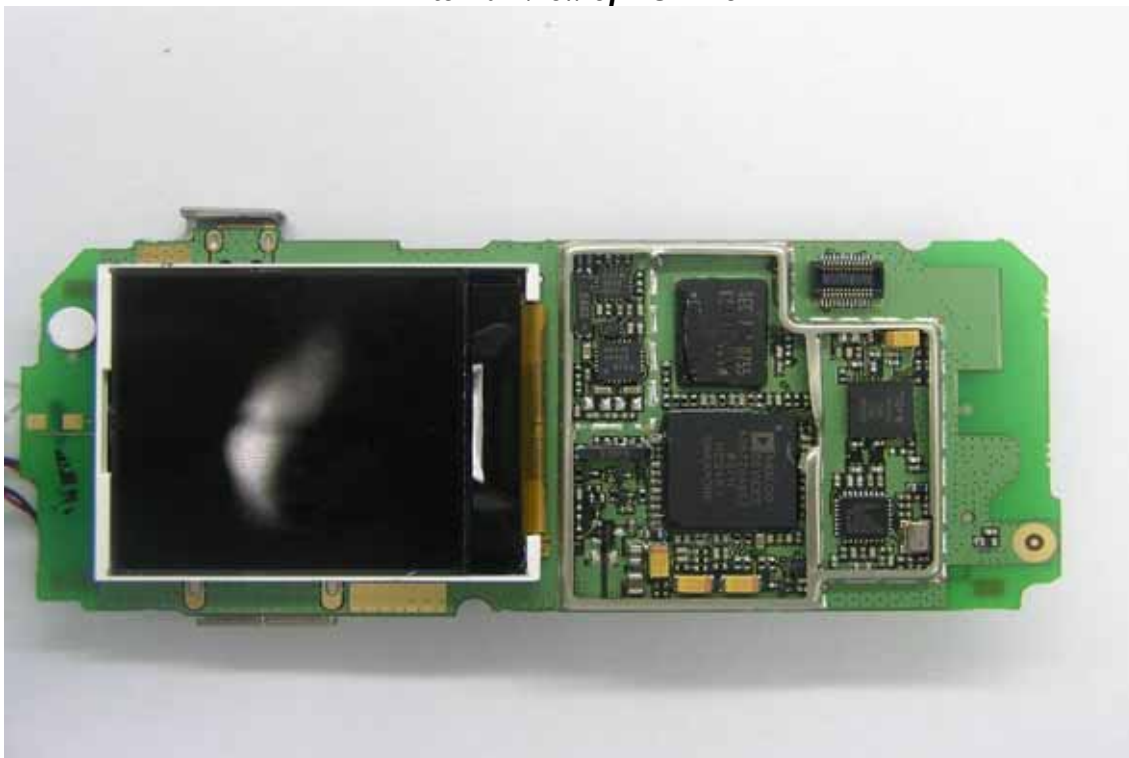


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Internal View of EUT – 6*~ End of Report ~*

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APPENDIX 3

LABELING REQUIREMENTS

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§15.19 Labeling requirements.

- (a) In addition to the requirements in part 2 of this chapter, a device subject to certification, or verification, or verification shall be labeled as follows:

- (1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90, etc., shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

- (2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

This device is verified to comply with the part 15 of the FCC Rules for use with cable television service.

- (3) All other devices shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

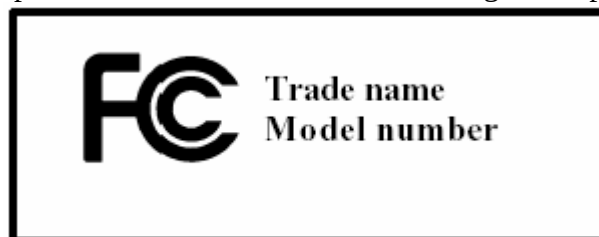
- (4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.

- (5) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.

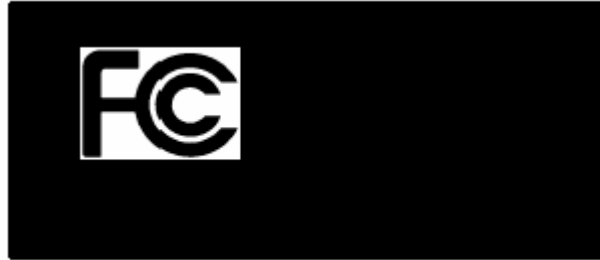
- (b) Products subject to authorization under a Declaration of Conformity shall be labeled as follows:

- (1) The label shall be located in a conspicuous location on the device and shall contain the unique identification described in §2.1074 of this chapter and the following logo:

- (i) If the product is authorized based on testing of the product or system; or



- (ii) If a personal computer is authorized based on assembly using separately authorized components, in accordance with §15.101(c) (2) or (c)(3), and the resulting product is not separately tested:



- (2) Label text information should be in a size of type large enough to be readily legible, consistent with the dimensions of the equipment and the label. However, the type size for the text is not required to be larger than eight points.
- (3) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (b)(1) of this section on it, such as for a CPU board or a plug-in circuit board peripheral device, the text associated with the logo may be placed in a prominent location in the instruction manual or pamphlet supplied to the user. However, the unique identification (trade name and model number) and the logo must be displayed on the device.
- (4) The label shall not be a stick-on, paper label. The label on these products shall be permanently affixed to the product and shall be readily visible to the purchaser at the time of purchase, as, described in §2.925(d) of this chapter. "Permanently affixed" means that the label is etched, engraved, stamped, silk screen, indelibly printed, or otherwise permanently marked on a permanently attached part of the equipment or on a nameplate of metal, plastic, or other material fastened to the equipment by welding, riveting, or a permanent adhesive. The label must be designed to last the expected lifetime of the equipment in the environment in which the equipment may be operated and must not be readily detachable.

~ End of Report ~