

FCC 47 CFR PART 22 SUBPART H TEST REPORT

For

Applicant: TeleEpoch Limited

Address: 2/F, R2-A North Gate, Shenzhen High-Tech Industria

Nanshan District, Shenzhen, Guang Dong, China

Product Name: Mobile Phone

Model Name: G10

Brand Name: Zonda

FCC ID: U46-G10

Report No.: STS100304F2

Date of Issue: March 23, 2010

Issued by: Shenzhen Super Test Service Technology Co., Ltd.

No.5, Langshan 2nd Rd., North Hi-Tech Industrial Park ,Nanshan, Address :

Shenzhen, Guangdong ,China

Tel: 86-755-2795 8522

Fax: 86-755-2795 8022

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1. VERIFICATION OF CONFORMITY

Equipment Under Test: MOBILE PHONE

Brand Name: Zonda
Model Number: G10

FCC ID:

Applicant: TeleEpoch Limited

2/F, R2-A North Gate, Shenzhen High-Tech Industria Nanshan District,

Shenzhen, Guang Dong, China

Manufacturer: TeleEpoch Limited

2/F, R2-A North Gate, Shenzhen High-Tech Industria Nanshan District,

Shenzhen, Guang Dong, China

Technical Standards: 47 CFR Part 2

47 CFR Part 22 Subpart H

File Number: STS100304F2

Date of test: March 13,2010 ~ March 23, 2010

U46-G10

Deviation:NoneCondition of Test Sample:NormalTest Result:PASS

The above equipment was tested by Shenzhen Super Test Service Technology Co., Ltd. for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

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

Tested by (+ signature):

Petter Ping
Petter Ping March 23, 2010

Feview by (+ signature):

July Wen March 23, 2010

Approved by (+ signature):

Terry Yang March 23, 2010

2. GENERAL INFORMATION

2.1 Product Information

EUT1- Mobile Phone	EUT1- Mobile Phone				
Description:	MOBILE PHONE				
Model Name:	G10				
IMEI No.:					
Hardware Version:	V1.1				
Software Version:	V2.0				
Frequency:	Tx: GSM850: 824 - 849MHz				
	WCDMA BANS V: 826-847 MHz				
	Rx: GSM850: 869 -894MHz				
	WCDMA BANS V: 824 -849 MHz				
Ancillary Equipment – Power Sup	ply				
Description:	AC/DC Adapter				
Model Name:	N/A				
Brand Name:	ZONDA				
Manufacturer:	E-tek Electronics Manufactory LTD.				
Rated Input:	AC 100-240V, 50/60HZ 100mA				
Rated Output:	DC 5.0V, 500mA				
Length DC cable:	1.10 m				
Ancillary Equipment – Battery					
Description:	Lithium-ion Battery				
Model Name:	N/A				
Brand Name:	ZONDA				
Manufacturer:	SHENZHEN CHIHANG TECHNOLOGY CO.,LTD				
Capacitance:	800 mAh				
Rated Voltage:	tage: 3.7V				
Charge Limit:	4.2V				

NOTE:

- 1. Please refer to Appendix I for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.
- 2. the normal voltage supply for the EUT is by the adapter, which are specified by the applicant.

2.2 Objective

The objective of the report is to perform tests according to 47 CFR Part 2, Part 22 for FCC ID Certification:

No.	Identity	Document Title		
1	47 CFR Part 2 (10-1-05 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations		
2	47 CFR Part 22 (10-1-05 Edition)	Public Mobile Services		

2.3 Test Standards and Results

Test items and the results are as bellow:

No.	Rules	Test Type		Date of Test
1	§2.106 §22.905	Frequencies	PASS	2010-03-23
2	§2.1046	Conducted RF Output Power at Antenna Terminal	PASS	2010-03-23
3	§2.1049	Occupied Bandwidth	PASS	2010-03-23
4	§2.1051 §2.1057 §22.917	Conducted Spurious Emission at Antenna Terminal		2010-03-23
5	§22.913	Transmitter Radiated Power (EIPR/ERP)	PASS	2010-03-23
6	§2.1053 §2.1057 §22.917	Radiated Spurious Emission		2010-03-23
7	§2.1055 §22.355	Frequency Stability		2010-03-23

Note: 1. The test result judgment is decided by the limit of measurement standard

2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35°CHumidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

3. TEST FACILITY

Test Site: Most Technology Service Co. Ltd.

Location: No.5, Langshan 2nd Rd., North Hi-Tech Industrial Park , Nanshan,

Shenzhen, Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

test. 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

16 requirements. The FCC Registration Number is 490827.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4:2003 and CISPR 16

requirements that meet industry regulatory agency and accreditation agency

requirement.

Ground Plane: 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.

4. TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength

Instrumentation from 10 kHz to 1.0 GHz or above.

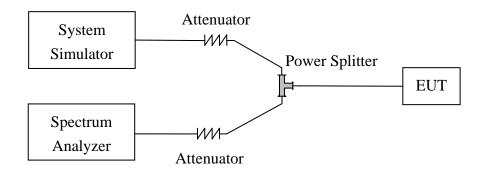
2 L.I.S.N. Rohde & Schwarz ENV216 100093 2011/03/1 3 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/1 4 Terminator Hubersuhner 50Ω No.1 2011/03/1 5 RF Cable SchwarzBeck N/A No.1 2011/03/1 6 Test Receiver Rohde & Schwarz ESPI 1010202 2011/03/1 7 Bilog Antenna Sunol JB3 A121206 2011/03/1 8 Cable SchwarzBeck N/A NO.1 2011/03/1 9 Cable SchwarzBeck N/A NO.2 2011/03/1 10 Cable SchwarzBeck N/A NO.3 2011/03/1 11 DC Power Filter DuOJi DL2×30B N/A 2011/03/1 12 Single Phase Power Line Filter DuOJi FNF 202B30 N/A 2011/03/1 13 3 Phase Power Line Filter DuOJi FNF 402B30 N/A 2011/03/1	No.	Equipment	Manufacturer	Model No.	S/N	Calculator due date
Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/14	1	Test Receiver	Rohde & Schwarz	ESCI 100492		2011/03/14
4 Terminator Hubersuhner 50Ω No.1 2011/03/1 5 RF Cable SchwarzBeck N/A No.1 2011/03/1 6 Test Receiver Rohde & Schwarz ESPI 101202 2011/03/1 7 Bilog Antenna Sunol JB3 A121206 2011/03/1 8 Cable SchwarzBeck N/A NO.1 2011/03/1 9 Cable SchwarzBeck N/A NO.2 2011/03/1 10 Cable SchwarzBeck N/A NO.3 2011/03/1 11 DC Power Filter DuoJi DL2×30B N/A 2011/03/1 12 Single Phase Power Line Filter DuoJi FNF 202B30 N/A 2011/03/1 13 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/1 14 Test Receiver Rohde & Schwarz ESCI 100492 2011/03/1 15 Absorbing Clamp Luthi MDS21 3635 2011/03/1	2	L.I.S.N.	Rohde & Schwarz	ENV216 100093		2011/03/14
5 RF Cable SchwarzBeck N/A No.1 2011/03/1 6 Test Receiver Rohde & Schwarz ESPI 101202 2011/03/1 7 Bilog Antenna Sunol JB3 A121206 2011/03/1 8 Cable SchwarzBeck N/A NO.1 2011/03/1 9 Cable SchwarzBeck N/A NO.3 2011/03/1 10 Cable SchwarzBeck N/A NO.3 2011/03/1 11 DC Power Filter DuoJi DL2×30B N/A 2011/03/1 12 Single Phase Power Line Filter DuoJi FNF 202B30 N/A 2011/03/1 13 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/1 14 Test Receiver Rohde & Schwarz ESCI 100492 2011/03/1 15 Absorbing Clamp Luthi MDS21 3635 2011/03/1 16 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/1	3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2011/03/14
6 Test Receiver Rohde & Schwarz ESPI 101202 2011/03/1 7 Bilog Antenna Sunol JB3 A121206 2011/03/1 8 Cable SchwarzBeck N/A NO.1 2011/03/1 9 Cable SchwarzBeck N/A NO.3 2011/03/1 10 Cable SchwarzBeck N/A NO.3 2011/03/1 11 DC Power Filter DuoJi DL2×30B N/A 2011/03/1 12 Single Phase Power Line Filter DuoJi FNF 202B30 N/A 2011/03/1 13 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/1 14 Test Receiver Rohde & Schwarz ESCI 100492 2011/03/1 15 Absorbing Clamp Luthi MDS21 3635 2011/03/1 16 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/1 17 AC Power Source Kikusui KHA1000 LM003720 2011/03/1	4	Terminator	Hubersuhner	50Ω	No.1	2011/03/14
7 Bilog Antenna Sunol JB3 A121206 2011/03/1 8 Cable SchwarzBeck N/A NO.1 2011/03/1 9 Cable SchwarzBeck N/A NO.2 2011/03/1 10 Cable SchwarzBeck N/A NO.3 2011/03/1 11 DC Power Filter DuoJi DL2×30B N/A 2011/03/1 12 Single Phase Power Line Filter DuoJi FNF 202B30 N/A 2011/03/1 13 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/1 14 Test Receiver Rohde & Schwarz ESCI 100492 2011/03/1 15 Absorbing Clamp Luthi MDS21 3635 2011/03/1 16 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/1 17 AC Power Source Kikusui AC40MA LM003232 2011/03/1 18 Test Analyzer Kikusui KHA1000 LM003720 2011/03/1	5	RF Cable	SchwarzBeck	N/A	No.1	2011/03/14
8 Cable SchwarzBeck N/A N/A NO.1 2011/03/1 9 Cable SchwarzBeck N/A N/A NO.2 2011/03/1 10 Cable SchwarzBeck N/A N/A NO.3 2011/03/1 11 DC Power Filter DuoJi FNF 202B30 N/A 2011/03/1 12 Single Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/1 13 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/1 14 Test Receiver Rohde & Schwarz ESCI 100492 2011/03/1 15 Absorbing Clamp Luthi MDS21 3635 2011/03/1 16 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/1 17 AC Power Source Kikusui AC40MA LM003232 2011/03/1 18 Test Analyzer Kikusui KHA1000 LM003720 2011/03/1 19 Line Impendence Network Kikusui <td>6</td> <td>Test Receiver</td> <td>Rohde & Schwarz</td> <td>ESPI</td> <td>101202</td> <td>2011/03/14</td>	6	Test Receiver	Rohde & Schwarz	ESPI	101202	2011/03/14
9 Cable SchwarzBeck N/A NO.2 2011/03/1 10 Cable SchwarzBeck N/A NO.3 2011/03/1 11 DC Power Filter DuoJi DL2×30B N/A 2011/03/1 12 Single Phase Power Line Filter DuoJi FNF 202B30 N/A 2011/03/1 13 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/1 14 Test Receiver Rohde & Schwarz ESCI 100492 2011/03/1 15 Absorbing Clamp Luthi MDS21 3635 2011/03/1 16 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/1 17 AC Power Source Kikusui AC40MA LM003232 2011/03/1 18 Test Analyzer Kikusui KHA1000 LM003720 2011/03/1 19 Line Impendence Network Kikusui KES4021 LM002352 2011/03/1 20 ESD Tester Kikusui KES4021 LM002352	7	Bilog Antenna	Sunol	JB3	A121206	2011/03/14
10 Cable SchwarzBeck N/A NO.3 2011/03/1 11 DC Power Filter DuoJi DL2×30B N/A 2011/03/1 12 Single Phase Power Line Filter DuoJi FNF 202B30 N/A 2011/03/1 13 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/1 14 Test Receiver Rohde & Schwarz ESCI 100492 2011/03/1 15 Absorbing Clamp Luthi MDS21 3635 2011/03/1 16 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/1 17 AC Power Source Kikusui AC40MA LM003232 2011/03/1 18 Test Analyzer Kikusui KHA1000 LM003720 2011/03/1 19 Line Impendence Network Kikusui KES4021 LM003537 2011/03/1 20 ESD Tester Kikusui KES4021 LM003537 2011/03/1 21 EMCPRO System EM Test UCS-500-M4 V	8	Cable	SchwarzBeck	N/A	NO.1	2011/03/14
DC Power Filter	9	Cable	SchwarzBeck	N/A	NO.2	2011/03/14
Single Phase Power Line Filter	10	Cable	SchwarzBeck	N/A	NO.3	2011/03/14
Filter	11	DC Power Filter	DuoJi	DL2×30B	N/A	2011/03/14
14 Test Receiver Rohde & Schwarz ESCI 100492 2011/03/1 15 Absorbing Clamp Luthi MDS21 3635 2011/03/1 16 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/1 17 AC Power Source Kikusui AC40MA LM003232 2011/03/1 18 Test Analyzer Kikusui KHA1000 LM003720 2011/03/1 19 Line Impendence Network Kikusui LIN40MA- PCR-L LM002352 2011/03/1 20 ESD Tester Kikusui KES4021 LM003537 2011/03/1 21 EMCPRO System EM Test UCS-500-M4 V0648102026 2011/03/1 22 Signal Generator IFR 2032 203002/100 2011/03/1 23 Amplifier A&R 150W1000 301584 2011/03/1 24 CDN FCC FCC-801-M2-25 47 2011/03/1 25 CDN FCC FCC-801-M3-25 107 2011/03	12		DuoJi	FNF 202B30	N/A	2011/03/14
15 Absorbing Clamp Luthi MDS21 3635 2011/03/1 16 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/1 17 AC Power Source Kikusui AC40MA LM003232 2011/03/1 18 Test Analyzer Kikusui KHA1000 LM003720 2011/03/1 19 Line Impendence Network Kikusui LIN40MA-PCR-L LM002352 2011/03/1 20 ESD Tester Kikusui KES4021 LM003537 2011/03/1 21 EMCPRO System EM Test UCS-500-M4 V0648102026 2011/03/1 22 Signal Generator IFR 2032 203002/100 2011/03/1 23 Amplifier A&R 150W1000 301584 2011/03/1 24 CDN FCC FCC-801-M2-25 47 2011/03/1 25 CDN FCC FCC-801-M3-25 107 2011/03/1 26 EM Injection Clamp FCC F-203I-23mm 403 2011/03/1 </td <td>13</td> <td>3 Phase Power Line Filter</td> <td>DuoJi</td> <td>FNF 402B30</td> <td>N/A</td> <td>2011/03/14</td>	13	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2011/03/14
16 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/1 17 AC Power Source Kikusui AC40MA LM003232 2011/03/1 18 Test Analyzer Kikusui KHA1000 LM003720 2011/03/1 19 Line Impendence Network Kikusui LIN40MA-PCR-L LM002352 2011/03/1 20 ESD Tester Kikusui KES4021 LM003537 2011/03/1 21 EMCPRO System EM Test UCS-500-M4 V0648102026 2011/03/1 22 Signal Generator IFR 2032 203002/100 2011/03/1 23 Amplifier A&R 150W1000 301584 2011/03/1 24 CDN FCC FCC-801-M2-25 47 2011/03/1 25 CDN FCC FCC-801-M3-25 107 2011/03/1 26 EM Injection Clamp FCC F-2031-23mm 403 2011/03/1 27 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/1 <td>14</td> <td>Test Receiver</td> <td>Rohde & Schwarz</td> <td>ESCI</td> <td>100492</td> <td>2011/03/14</td>	14	Test Receiver	Rohde & Schwarz	ESCI	100492	2011/03/14
17 AC Power Source Kikusui AC40MA LM003232 2011/03/1 18 Test Analyzer Kikusui KHA1000 LM003720 2011/03/1 19 Line Impendence Network Kikusui LIN40MA-PCR-L LM002352 2011/03/1 20 ESD Tester Kikusui KES4021 LM003537 2011/03/1 21 EMCPRO System EM Test UCS-500-M4 V0648102026 2011/03/1 22 Signal Generator IFR 2032 203002/100 2011/03/1 23 Amplifier A&R 150W1000 301584 2011/03/1 24 CDN FCC FCC-801-M2-25 47 2011/03/1 25 CDN FCC FCC-801-M3-25 107 2011/03/1 26 EM Injection Clamp FCC F-203I-23mm 403 2011/03/1 27 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/1 28 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789	15	Absorbing Clamp	Luthi	MDS21	3635	2011/03/14
18 Test Analyzer Kikusui KHA1000 LM003720 2011/03/1 19 Line Impendence Network Kikusui LIN40MA-PCR-L PCR-L PCR-L LM002352 2011/03/1 20 ESD Tester Kikusui KES4021 LM003537 2011/03/1 21 EMCPRO System EM Test UCS-500-M4 V0648102026 2011/03/1 22 Signal Generator IFR 2032 203002/100 2011/03/1 23 Amplifier A&R 150W1000 301584 2011/03/1 24 CDN FCC FCC-801-M2-25 47 2011/03/1 25 CDN FCC FCC-801-M3-25 107 2011/03/1 26 EM Injection Clamp FCC F-203I-23mm 403 2011/03/1 27 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/1 28 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/1 29 Telecommunication Antenna European Antennas PSA 75301R/170	16	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2011/03/14
19 Line Impendence Network Kikusui LIN40MA-PCR-L PCR-L PCR-L LM002352 2011/03/1 20 ESD Tester Kikusui KES4021 LM003537 2011/03/1 21 EMCPRO System EM Test UCS-500-M4 V0648102026 2011/03/1 22 Signal Generator IFR 2032 203002/100 2011/03/1 23 Amplifier A&R 150W1000 301584 2011/03/1 24 CDN FCC FCC-801-M2-25 47 2011/03/1 25 CDN FCC FCC-801-M3-25 107 2011/03/1 26 EM Injection Clamp FCC F-203I-23mm 403 2011/03/1 27 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/1 28 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/1 29 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2011/03/1 30 Spectrum Analyzer Agilent <td< td=""><td>17</td><td>AC Power Source</td><td>Kikusui</td><td>AC40MA</td><td>LM003232</td><td>2011/03/14</td></td<>	17	AC Power Source	Kikusui	AC40MA	LM003232	2011/03/14
EIND Impendence Network	18	Test Analyzer	Kikusui		LM003720	2011/03/14
21 EMCPRO System EM Test UCS-500-M4 V0648102026 2011/03/1 22 Signal Generator IFR 2032 203002/100 2011/03/1 23 Amplifier A&R 150W1000 301584 2011/03/1 24 CDN FCC FCC-801-M2-25 47 2011/03/1 25 CDN FCC FCC-801-M3-25 107 2011/03/1 26 EM Injection Clamp FCC F-203I-23mm 403 2011/03/1 27 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/1 28 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/1 29 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2011/03/1 30 Spectrum Analyzer Agilent E4408 MY41440460 2011/03/1	19	Line Impendence Network	Kikusui			2011/03/14
22 Signal Generator IFR 2032 203002/100 2011/03/1 23 Amplifier A&R 150W1000 301584 2011/03/1 24 CDN FCC FCC-801-M2-25 47 2011/03/1 25 CDN FCC FCC-801-M3-25 107 2011/03/1 26 EM Injection Clamp FCC F-203I-23mm 403 2011/03/1 27 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/1 28 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/1 29 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2011/03/1 30 Spectrum Analyzer Agilent E4408 MY41440460 2011/03/1	20	ESD Tester	Kikusui	KES4021	LM003537	2011/03/14
23 Amplifier A&R 150W1000 301584 2011/03/1 24 CDN FCC FCC-801-M2-25 47 2011/03/1 25 CDN FCC FCC-801-M3-25 107 2011/03/1 26 EM Injection Clamp FCC F-203I-23mm 403 2011/03/1 27 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/1 28 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/1 29 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2011/03/1 30 Spectrum Analyzer Agilent E4408 MY41440460 2011/03/1	21	EMCPRO System	EM Test	UCS-500-M4	V0648102026	2011/03/14
24 CDN FCC FCC-801-M2-25 47 2011/03/1 25 CDN FCC FCC-801-M3-25 107 2011/03/1 26 EM Injection Clamp FCC F-203I-23mm 403 2011/03/1 27 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/1 28 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/1 29 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2011/03/1 30 Spectrum Analyzer Agilent E4408 MY41440460 2011/03/1	22	Signal Generator	IFR	2032	203002/100	2011/03/14
25 CDN FCC FCC-801-M3-25 107 2011/03/1 26 EM Injection Clamp FCC F-203I-23mm 403 2011/03/1 27 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/1 28 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/1 29 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2011/03/1 30 Spectrum Analyzer Agilent E4408 MY41440460 2011/03/1	23	Amplifier	A&R	150W1000	301584	2011/03/14
26 EM Injection Clamp FCC F-203I-23mm 403 2011/03/1 27 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/1 28 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/1 29 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2011/03/1 30 Spectrum Analyzer Agilent E4408 MY41440460 2011/03/1	24	CDN	FCC	FCC-801-M2-25 47		2011/03/14
27 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/1 28 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/1 29 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2011/03/1 30 Spectrum Analyzer Agilent E4408 MY41440460 2011/03/1	25	CDN	FCC	FCC-801-M3-25 107		2011/03/14
28 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/1 29 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2011/03/1 30 Spectrum Analyzer Agilent E4408 MY41440460 2011/03/1	26	EM Injection Clamp	FCC	F-203I-23mm	403	2011/03/14
Z8 Communication Tester ROHDE&SCHWARZ CMI0200 0304789 2011/03/1 29 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2011/03/1 30 Spectrum Analyzer Agilent E4408 MY41440460 2011/03/1	27		MIYAZAKI	N/A	No.1/No.2	2011/03/14
30 Spectrum Analyzer Agilent E4408 MY41440460 2011/03/1	28		ROHDE&SCHWARZ	CMU200	0304789	2011/03/14
	29	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2011/03/14
31 Horn Antenna SCHWARZBECK BBHA9120D D69250 2011/03/1	30	Spectrum Analyzer	Agilent	E4408 MY41440460 20		2011/03/14
	31	Horn Antenna	SCHWARZBECK	BBHA9120D	D69250	2011/03/14

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 2, Part 22H Requirements

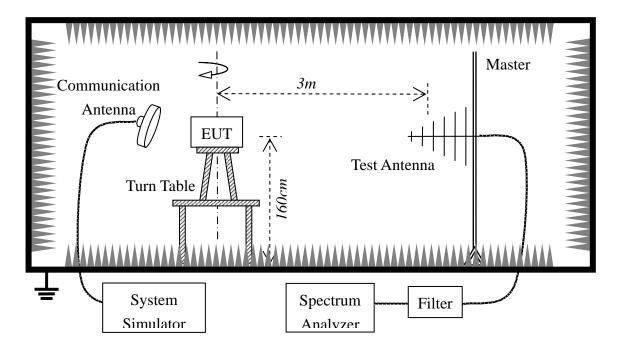
5.1 General Information

5.1.1 Conducted Related Tests



- 1. The EUT is coupled to the Spectrum Analyzer and the System Simulator with the suitable Attenuators through the Power Splitter; the path loss is calibrated to correct the reading.
- 2. The EUT is configured here as MS + Battery.
- 3. The EUT is commanded via the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4.
- 4. The BCCH number of the SS used here is 200. A communication link is established between the EUT and the SS.
- 5. The Spectrum Analyzer is set to max-peak detector function and maximum hold mode.

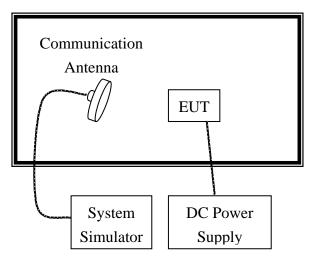
5.1.2 Radiated Power and Spurious Emission Tests



1. The test is performed in a full-Anechoic Chamber; the air loss of the site and the factors of the test system are pre-calibrated using the substitution method.

- 2. The EUT is configured as MS + Battery.
- 3. The EUT is placed on the vertical axis of a Turn Table 1.62 meters above the ground.
- 4. The Test Antenna is a bi-log one or a horn one, and the Test Antenna is at the same height as the EUT.
- 5. The EUT is commanded via the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4.
- 6. The BCCH number of the SS used here is 200. A communication link is established between the EUT and the SS.
- 7. The Spectrum Analyzer is set to max-peak detector function and maximum hold mode.

5.1.3 Frequency Stability Test



- 1. The test is performed in a Temperature Chamber.
- 2. The EUT is configured as MS + DC Power Supply.
- 3. The BCCH number of the SS used here is 200.

6. FREQUENCIES

6.1. Requirement

According to FCC §22.905, the frequencies blocks assignment for the Cellular Radiotelephone Service are listed as below.

(a) Channel Block A:

Mobile 824 - 835MHz, Base 869 - 880MHz;

Mobile 845 - 846.5MHz, Base 890 - 891.5MHz

(b) Channel Block B:

Mobile 835 - 845 MHz, Base 880 - 890MHz;

Mobile 846.5 - 849 MHz, Base 891.5 - 894MHz

6.2 Test Procedure

- 1. Perform test system setup as section 5.1.1.
- 2. Perform test configuration as section 5.1
- 3. The resolution bandwidth (RBW) of the Spectrum Analyzer was set to at lease 1% of the emission bandwidth of the fundamental emission of the transmitter, e.g. for GSM modulated signal (here used): RBW=VBW=3 kHz, for CDMA modulated signal: RBW=VBW=30 kHz.
- 4. The transmitter frequency arrangement of the GSM850MHz band is FI(n)=824.2+0.2*(n-128), 128 ≤ n ≤ 251. The lowest and the highest channel were selected to perform tests respectively. Set the TCH number to 128.
- 5. Set the Spectrum Analyzer suitably to capture the waveform, search peak and mark, and then record the plot.
- 6. Set the TCH number to 251, then repeat step 5.

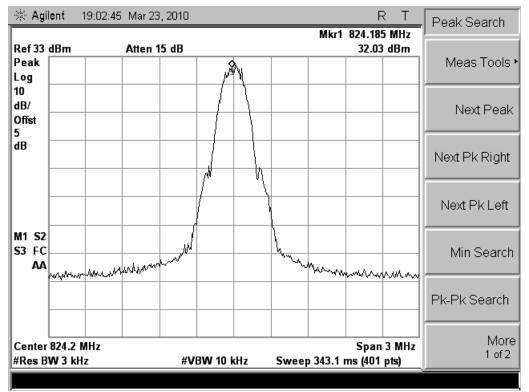
6.3 Test Result

The transmitter (Tx) frequency arrangement of the Cellular 850MHz band is represented with a formula

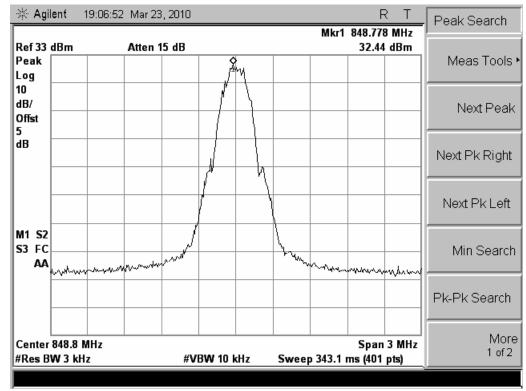
F (n) = 824.2+0.2*(n-128), $128 \le n \le 251$. The frequencies of the lowest channel and the highest channel are listed as follows.

GSM850 Band:

1. Plot when the TCH number set to 128:

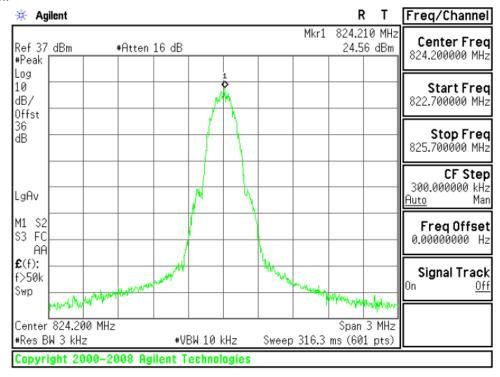


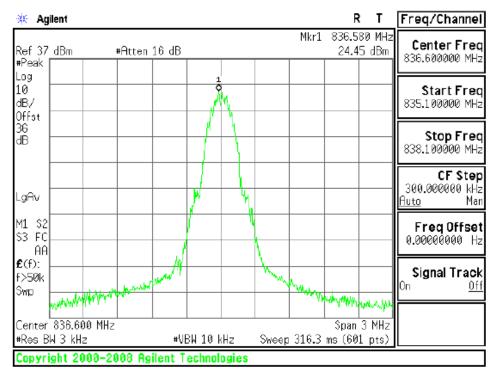
2. Plot when the TCH number set to 251:



EDGE Band:

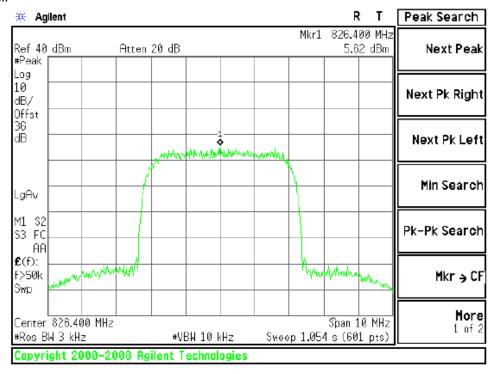
1. Low Channel:

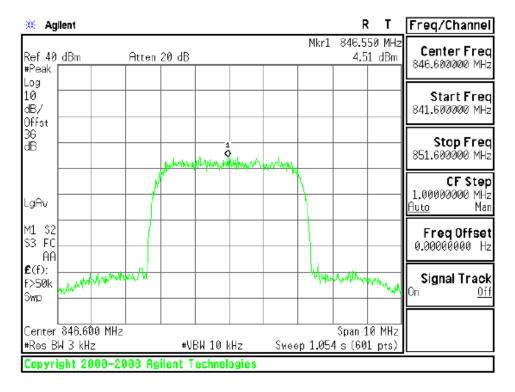




WCDMA Band:

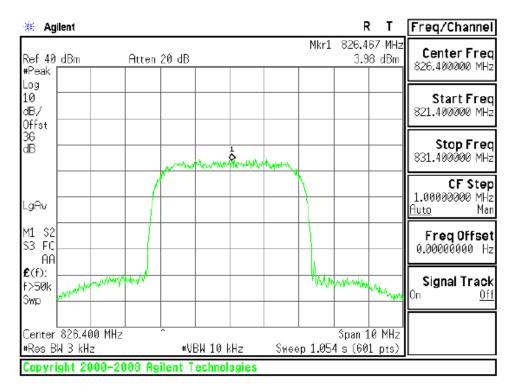
1. Low Channel:

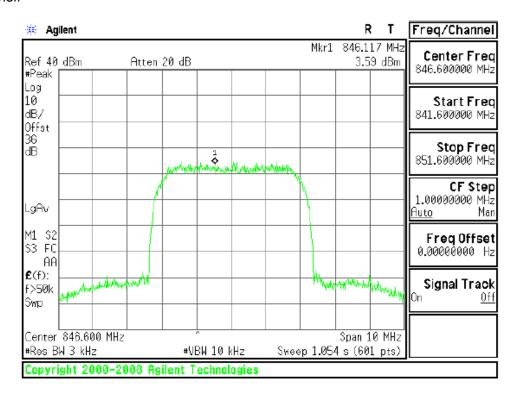




HSDPA Band:

1. Low Channel:





7. Conducted RF Output Power

7.1 Requirement

According to FCC §2.1046 (a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in §2.1033 (c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

7.2 Test Procedure

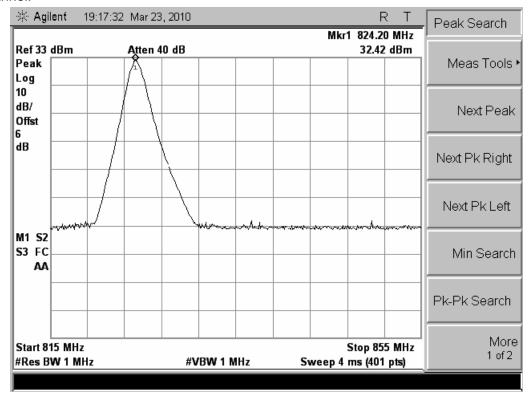
- 1. Perform test system setup as section 5.1.1. (The radio frequency load attached to the EUT antenna terminal is 50Ω).
- The resolution bandwidth of the Spectrum Analyzer is set to be comparable to the emission bandwidth
 of the transmitter, e.g. for GSM modulated signal (here used): RBW=VBW=1MHz, for CDMA modulated
 signal: RBW=VBW=3MHz.
- 3. The low, middle and the high channels are selected to perform tests respectively. Set the TCH number to 128 as the low channel.
- 4. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.
- 5. Set the TCH number to 190 as the middle channel, then repeat step 4.
- 6. Set the TCH number to 251 as the high channel, then repeat step 4.

7.3 Test Result

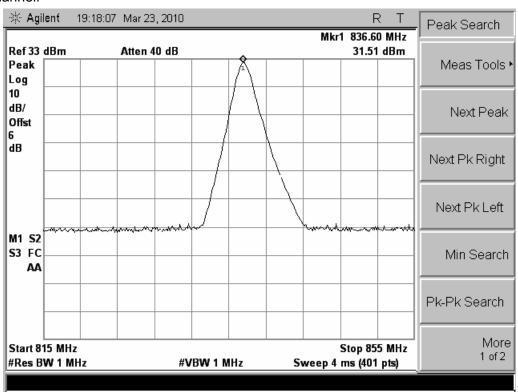
Band	Channel	Fraguanay (MHz)	Measured Power		Rated Power	
Danu	Number Frequency (MHz)	Frequency (MHZ)	dBm	W	dBm	W
	L	824.2	32.42	1.746	33	2
GSM850	М	836.6	31.51	1.416	33	2
	Н	848.8	31.31	1.352	33	2
	L	824.2	32.58	1.811	33	2
EDGE	М	836.6	32.67	1.849	33	2
	Н	848.6	33.07	2.028	33	2
WCDMA	L	827.6	24.42	0.277	33	2
VVCDIVIA	М	837.7	25.04	0.319	33	2
V	Н	845.5	24.92	0.310	33	2
ПСППУ	L	825.2	22.64	0.184	33	2
HSDPA V	М	837.8	22.15	0.164	33	2
V	Н	845.3	22.62	0.183	33	2

GSM850 Band:

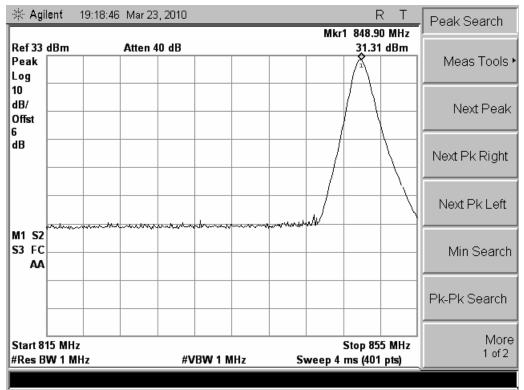
1. Low Channel:



2. Middle Channel:

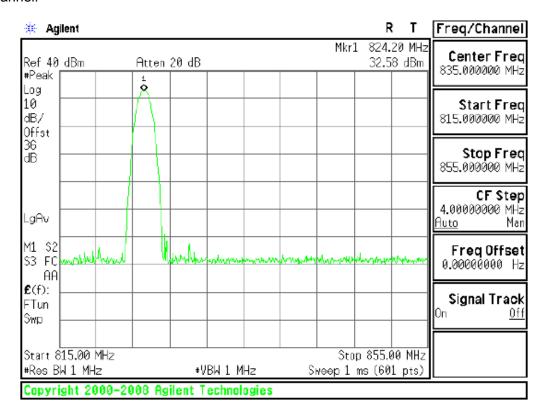


3. High Channel:

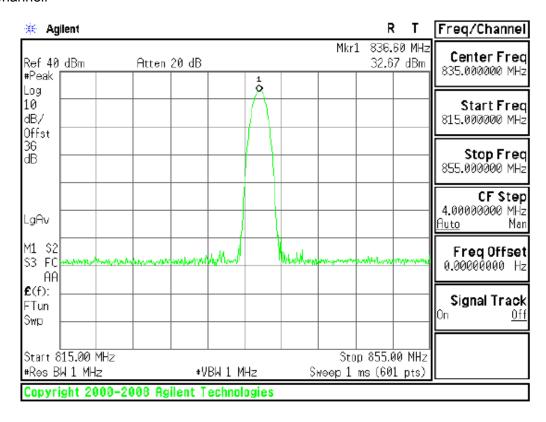


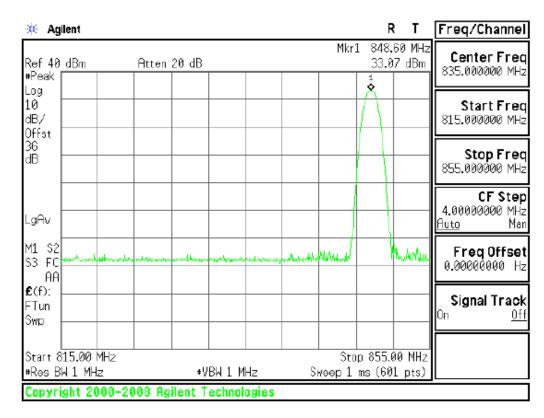
EDGE Band:

1. Low Channel:



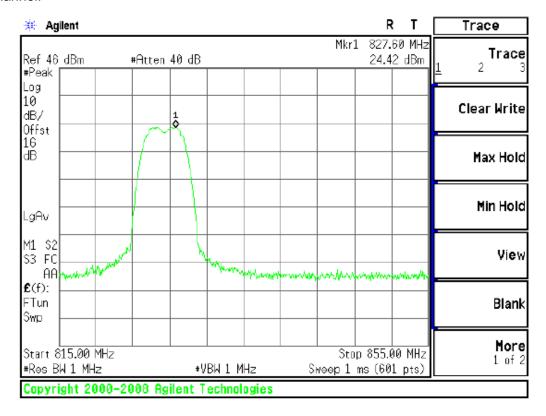
2. Middle Channel:



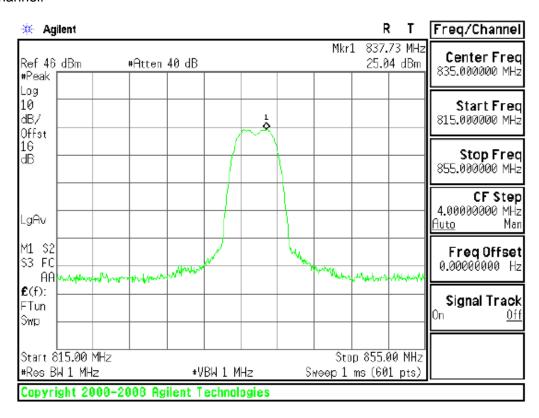


WCDMA V Band:

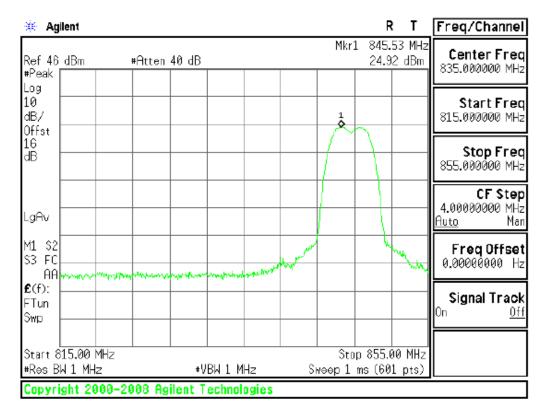
1. Low Channel:



2. Middle Channel:

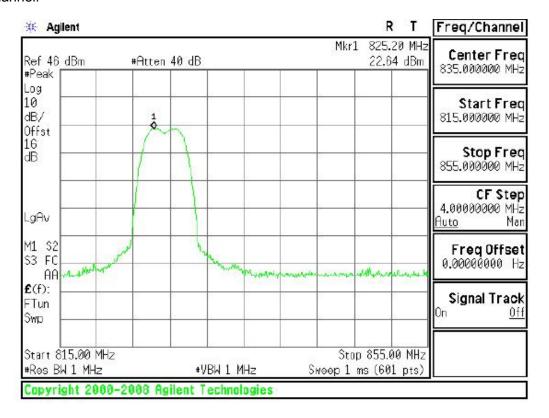


3. High Channel:

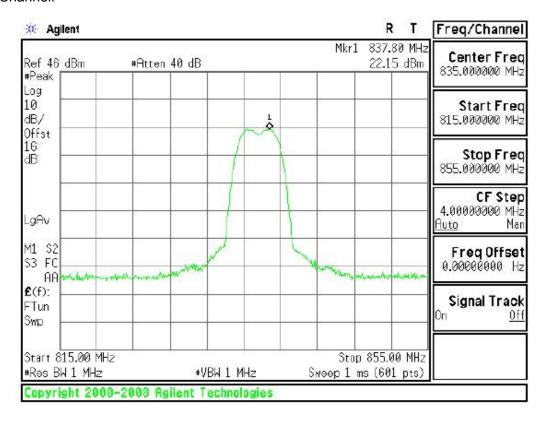


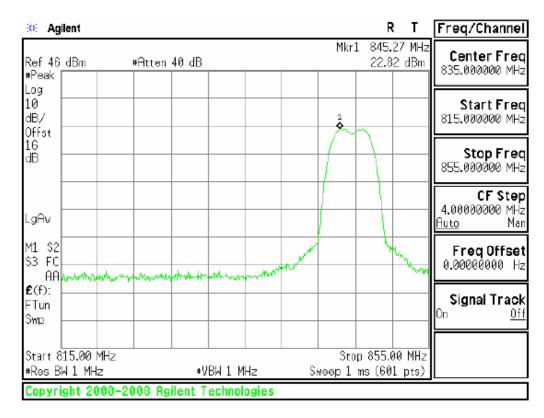
HSDPA V Band:

1. Low Channel:



2. Middle Channel:





8. OCCUPIED BANDWIDTH

8.1 Occupied Bandwidth Definition

According to FCC §2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth, or 20dB bandwidth (10*log1% is equal to 20dB) taking the total RF output power as reference.

8.2 Test Procedure

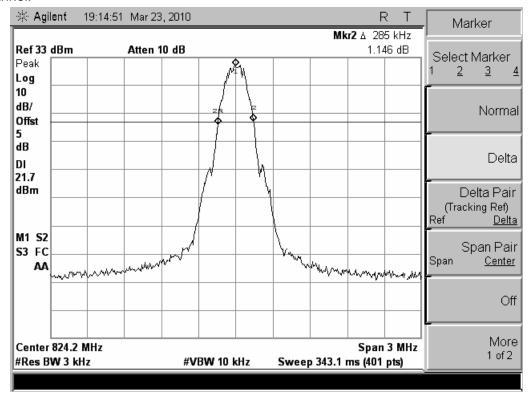
- Perform test system setup as section 5.1.1
- 2. The resolution bandwidth of the Spectrum Analyzer is set to at least one percent of the emission bandwidth, e.g. for GSM modulated signal (here used): RBW=VBW=3 kHz, for CDMA modulated signal: RBW=VBW=30 kHz.
- 3. The low, middle and the high channels are selected to perform tests respectively. Set the TCH number to 128 as the low channel.
- 4. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak; make a line whose value is 20dB lower than the peak; mark two points which the line intersected the waveform at; finally record the delta of the two points as the occupied bandwidth and the plot.
- 5. Set the TCH number to 190 as middle channel, then repeat step 4.
- 6. Set the TCH number to 251 as high channel, then repeat step 4.

8.3 Test Result

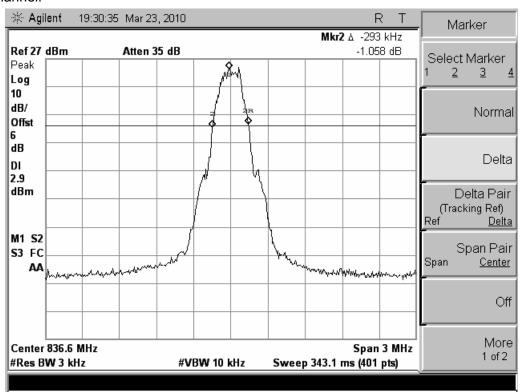
Band	Channel	Frequency (MHz)	Measured Occupied Bandwidth (kHz)
	L	824.2	285.0
GSM850	M	836.6	293.0
	Н	848.8	293.0
	L	824.2	280.0
EDGE	M	836.6	295.0
	Н	848.6	280.0
WCDMA	L	827.6	4550.0
V	M	837.7	4533.0
	Н	845.5	4567.0
HADPA	L	825.2	4567.0
V	М	837.8	4567.0
	Н	845.3	4533.0

GSM 850 Bands:

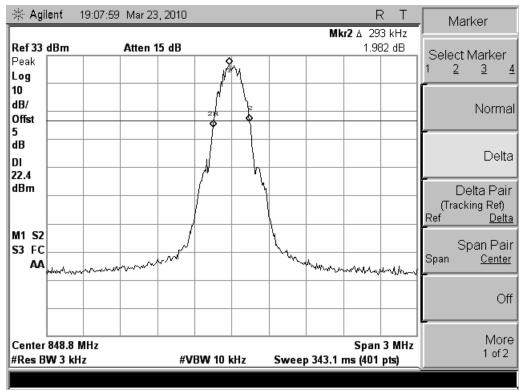
1. Low Channel:



2. Middle Channel:

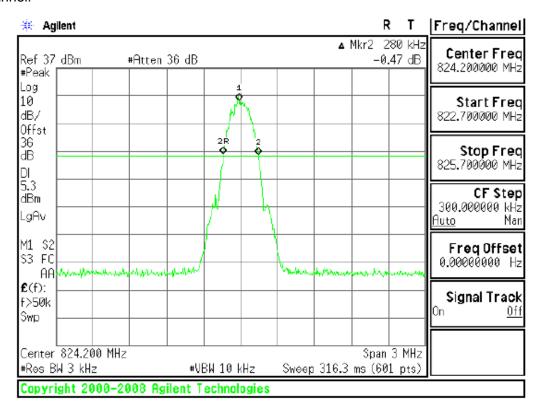


3. High Channel:

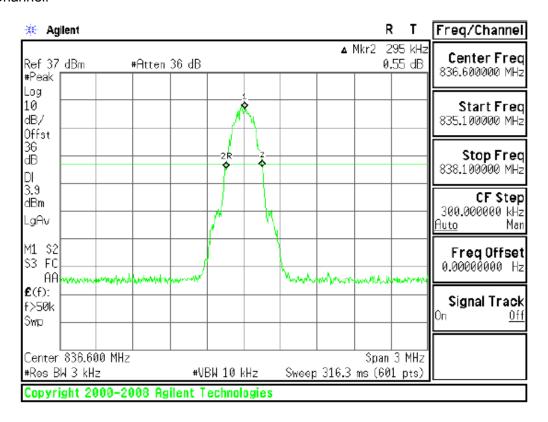


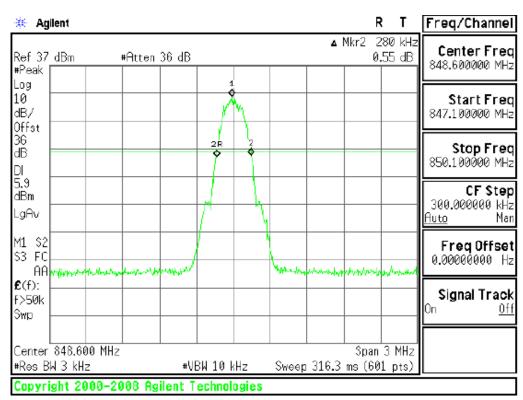
EDGE Band:

1. Low Channel:



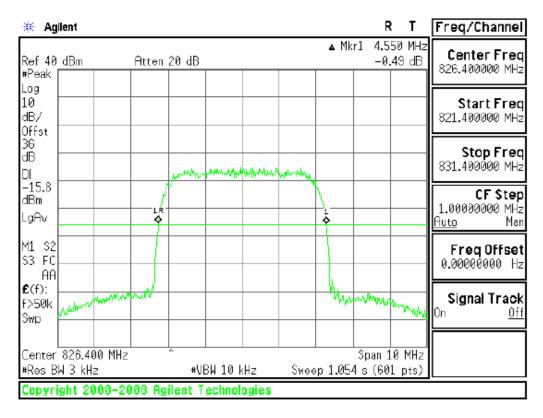
2. Middle Channel:



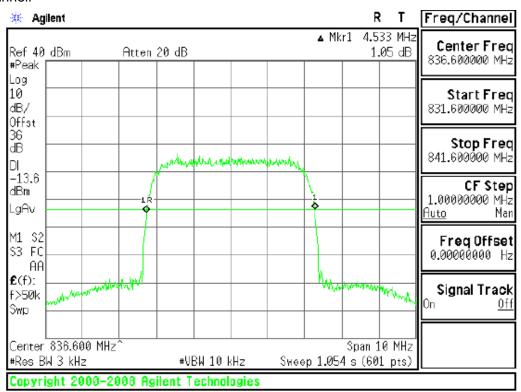


WCDMA Band:

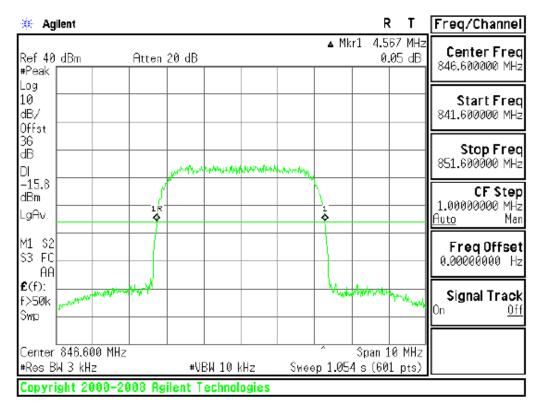
1. Low Channel:



2. Middle Channel:

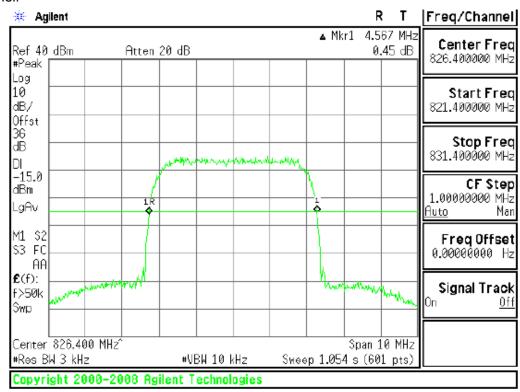


3. High Channel:

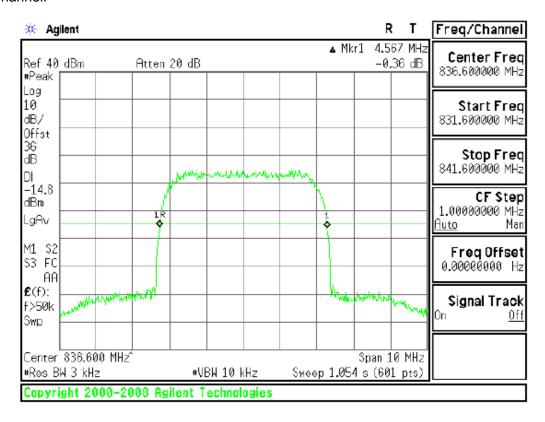


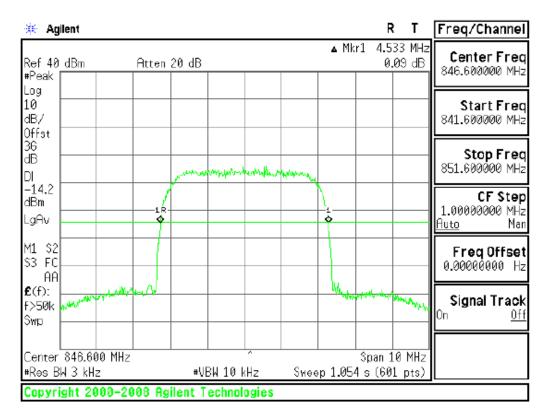
HSDPA Band:

1. Low Channel:



2. Middle Channel:





9. CONDUCTED SPURIOUS EMISSION

9.1 Requirement

According to FCC §22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10*log(P)dB. This calculated to be -13dBm.

According to FCC §22.917 (a), in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. Thus the 26dB emission bandwidth is measurement for showing compliance at the band-edge.

9.2 Test Procedure

- 1. Perform test system setup as section 5.1.1.
- 2. Make a limit line whose value is -13dBm on the Spectrum Analyzer.
- 3. The lowest, middle and the highest channels are selected to perform tests respectively. Set the TCH number to 128 as the lowest channel.
- 4. Set the RBW of the Spectrum Analyzer to 1MHz, and the measuring frequency range from 9kHz to 10th harmonic of the fundamental frequency (here used 26.5GHz); mark the fundamental frequency and the harmonics thereof; finally record the harmonics and the plot. Note, the measuring frequency range can be divided into several parts to perform tests.
- 5. In the 1MHz bands immediately outside and adjacent to the frequency black, the RBW of the Spectrum Analyzer was set to at least one percent of the emission bandwidth of the fundamental emission of the transmitter, e.g. for GSM modulated signal (here used): RBW=3kHz, for CDMA modulated signal: RBW=30kHz.
- 6. Set the TCH number to 190 as the middle channel, then repeat step 4.
- 7. Set the TCH number to 251 as the highest channel, then repeat step 4 and 5.

9.3 Test Result

Table for the Harmonics and Plots for the Spurious Emission

1. Plot for Spurious Emission:

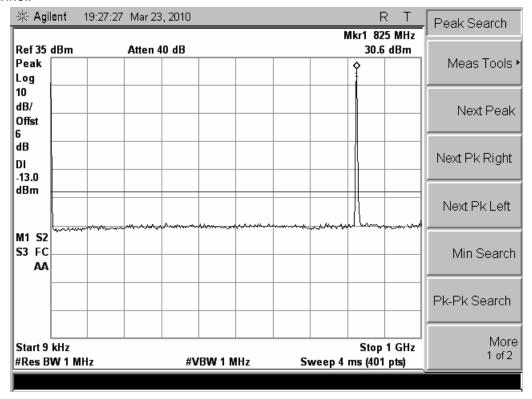
The measuring frequency range was from 9 kHz to 20GHz.

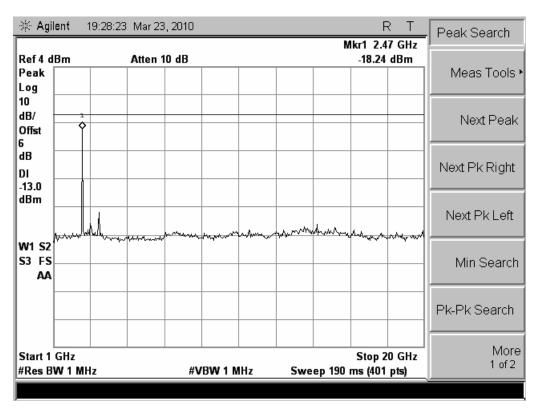
Please check the follow data plot.

NOTE: The marker points are the Mobile Phone and/or System Simulator transmitting frequencies which should be ignored.

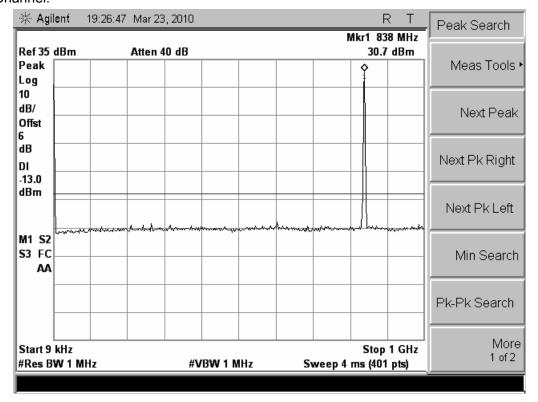
GSM850 Band

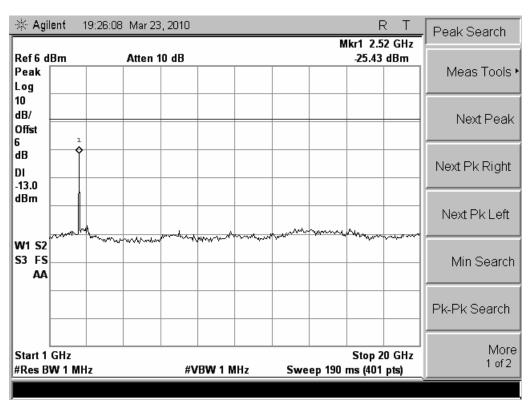
1. Low Channel:

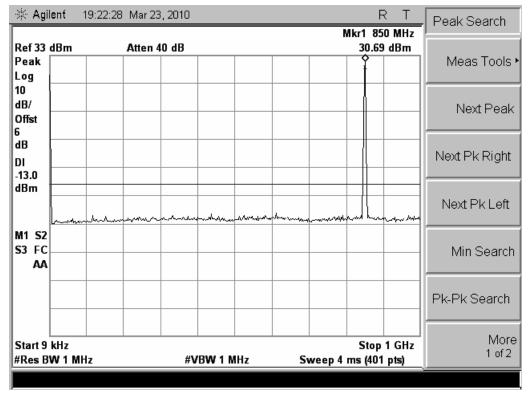


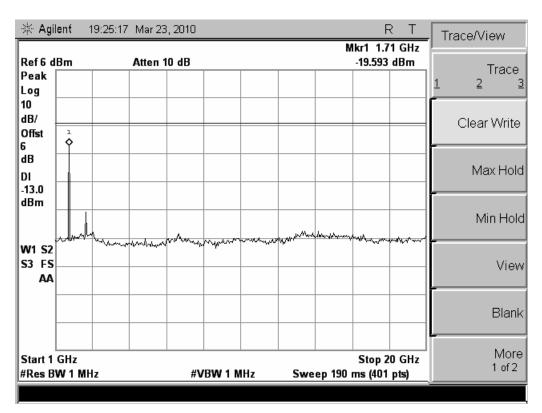


2. Middle Channel:



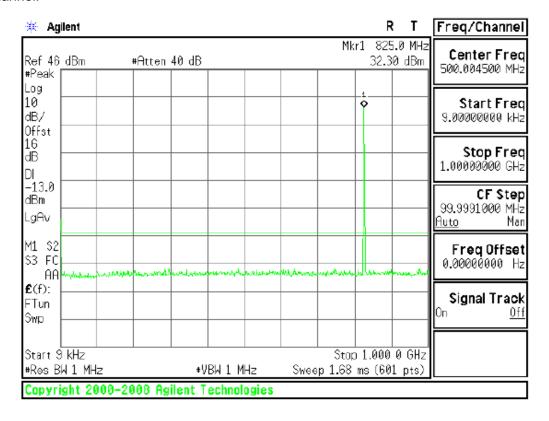


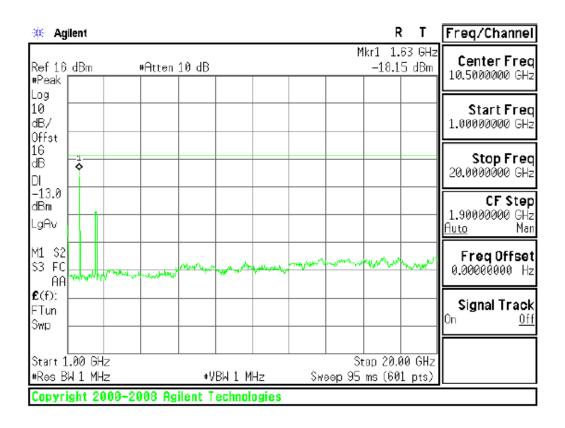




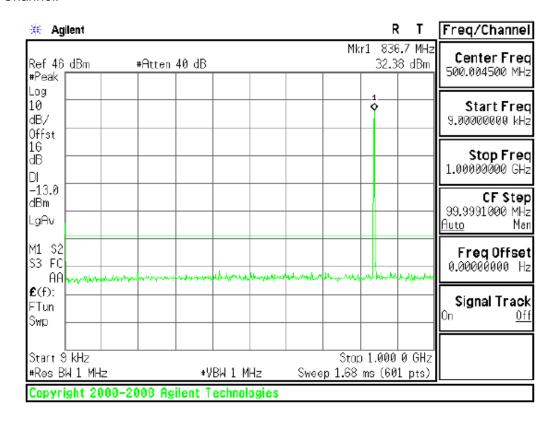
EDGE Band:

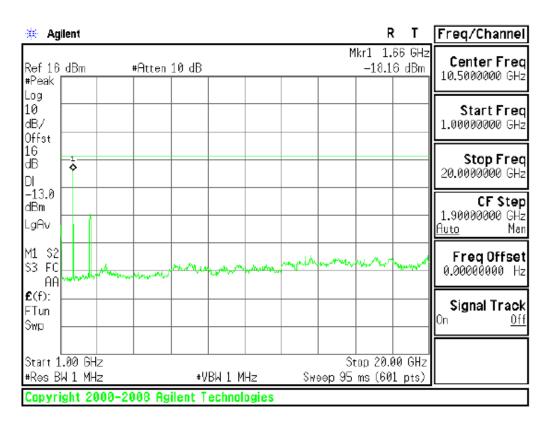
1. Low Channel:



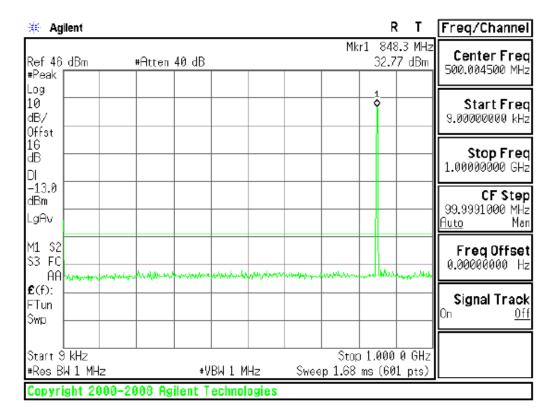


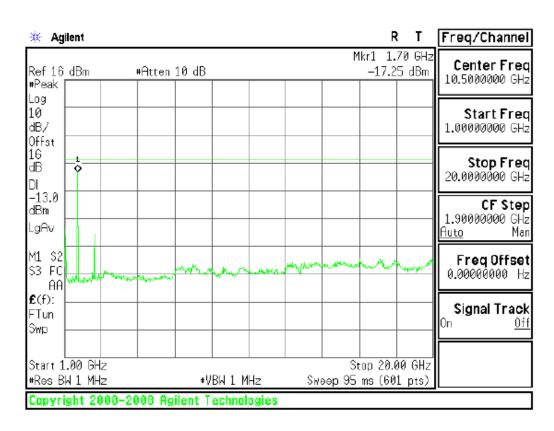
2. Middle Channel:





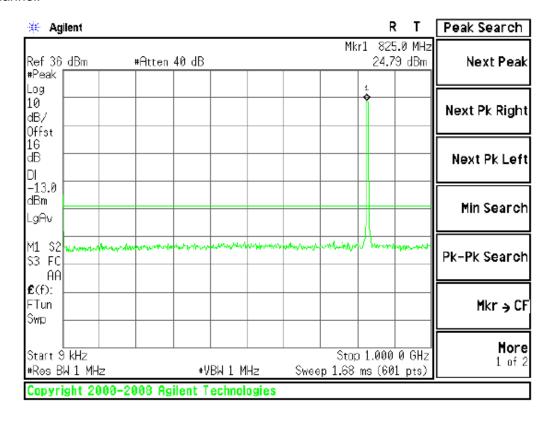
3. High Channel:

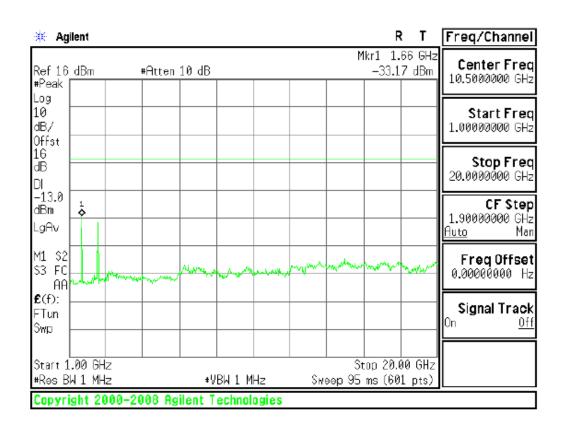




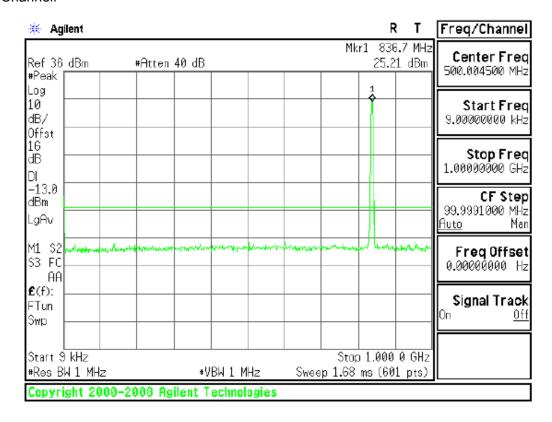
WCDMA V Band:

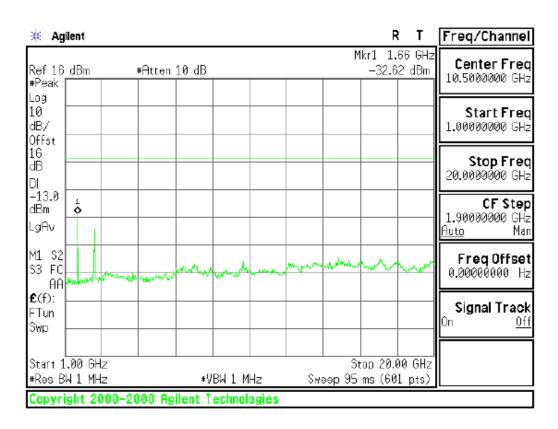
1. Low Channel:



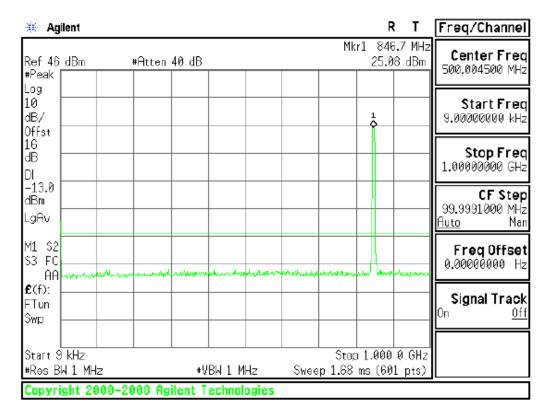


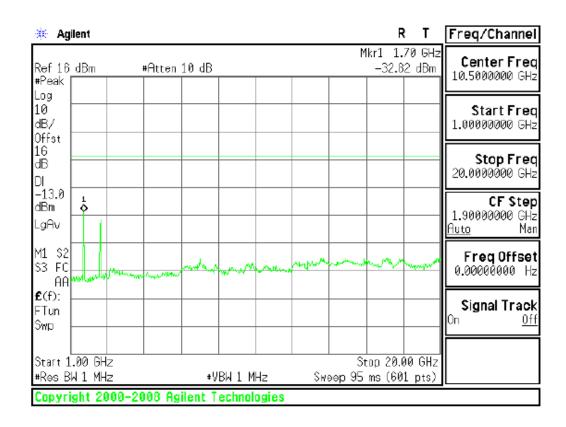
2. Middle Channel:





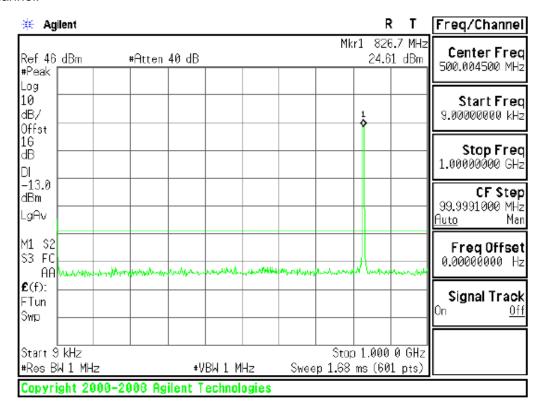
3. High Channel:

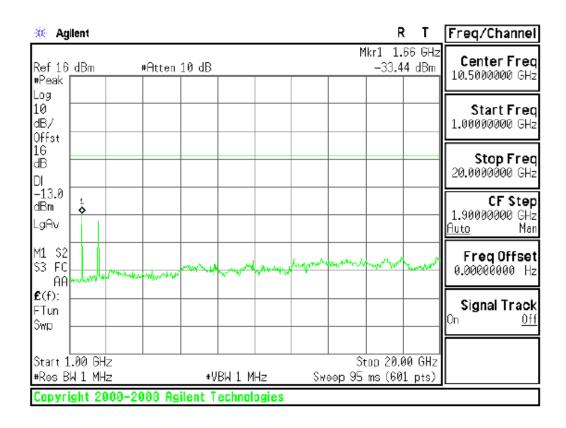




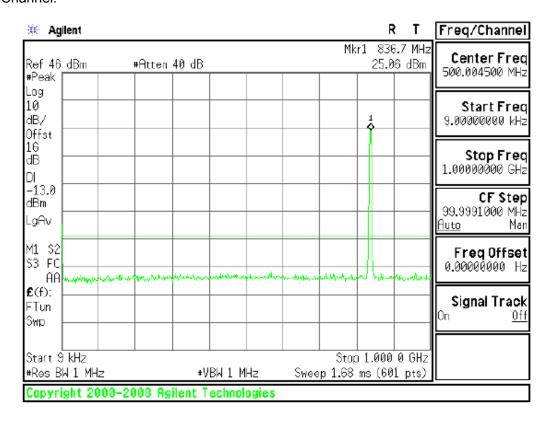
EDGE Band:

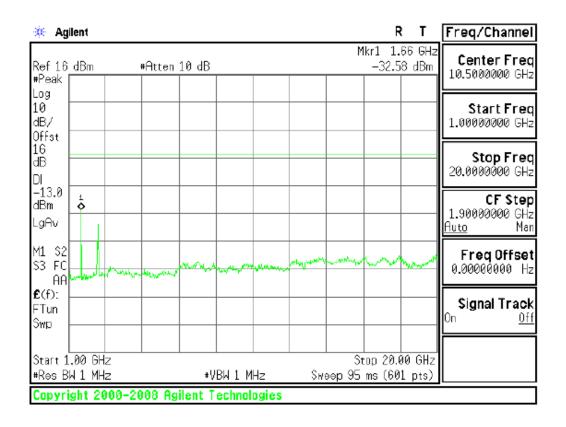
1. Low Channel:



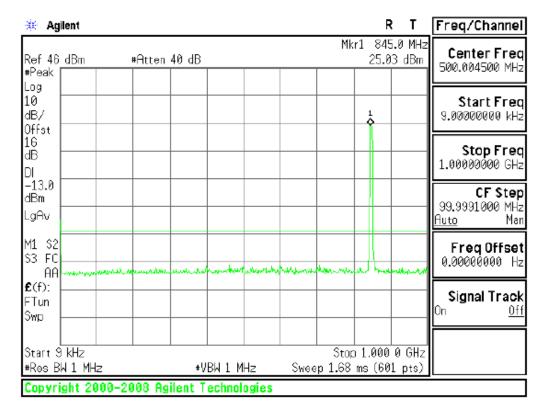


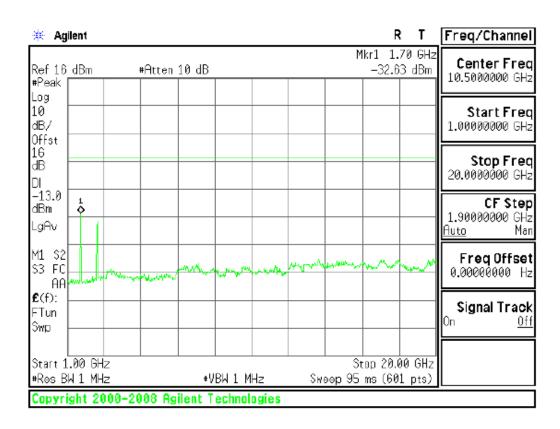
2. Middle Channel:





3. High Channel:





3. Plot for Band-edge

GSM850 Band

1. Low Channel:

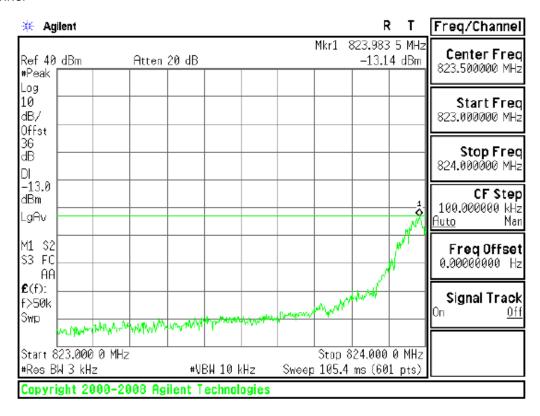


2. High Channel:

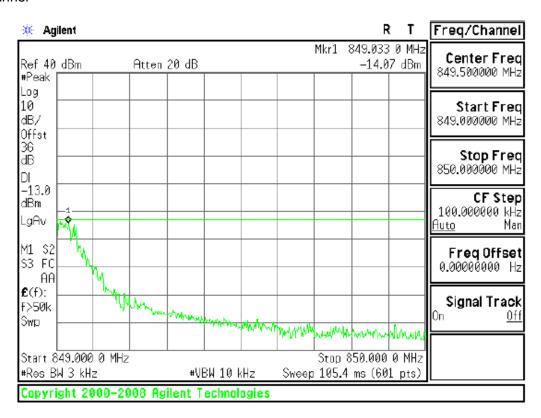


EDGE Band

1. Low Channel

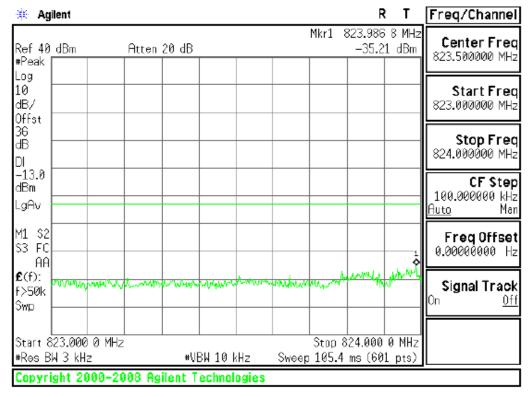


2. High Channel

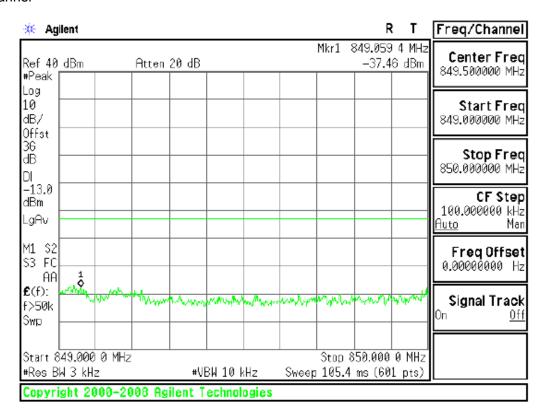


WCDMA Band

1. Low Channel

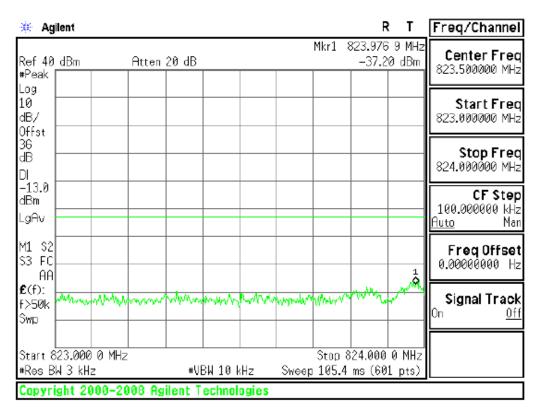


2. High Channel

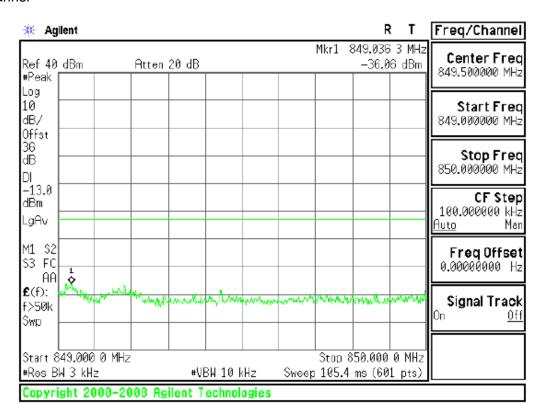


HSDPA Band

1. Low Channel



2. High Channel



10. Transmitter Radiated Power (EIRP/ERP)

10.1 Requirement

According to FCC §22.913, the ERP of Cellular mobile transmitters must not exceed 7 Watts (38.5dBm).

10.2 Test Procedure

- 1. Perform test system setup as section 5.1.1.
- 2. The resolution bandwidth of the Spectrum Analyzer is set to be comparable to the emission bandwidth of the transmitter, e.g. for GSM modulated signal (here used): RBW=VBW=1MHz, for CDMA modulated signal: RBW=VBW=3MHz.
- 3. The low, middle and the high channels are selected to perform tests respectively. Set the TCH number to 128 as the low channel.
- 4. Employ the bi-log Test Antenna as the test system receiving antenna; set the polarization of the Test Antenna to be the same as that of the EUT transmitting antenna.
- 5. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; actuate the Turn Table to turn from 0 degrees to 360 degrees to find the maximum reading via the Spectrum Analyzer, mark the peak; finally record the peak and the plot.
- 6. Set the TCH number to 190 as the middle channel, then repeat step 5.
- 7. Set the TCH number to 251 as the high channel, then repeat step 5.

10.3 Test Result

Dond	Channel	Eroguanov (MUz)	Measur	ed ERP	Limit ERP		Dogult
Band		Frequency (MHz)	dBm	W	dBm	W	Result
GSM	L	824.2	32.50	1.778	< 38.5	< 7	PASS
850	M	836.6	32.23	1.671	< 38.5	< 7	PASS
650	Н	848.8	32.16	1.644	< 38.5	< 7	PASS
	L	824.2	33.15	2.065	< 38.5	< 7	PASS
EDGE	M	836.6	32.92	1.959	< 38.5	< 7	PASS
	Н	848.6	33.13	2.056	< 38.5	< 7	PASS
WCDMA	L	827.6	25.10	0.324	< 38.5	< 7	PASS
VVCDIVIA	M	837.7	25.21	0.332	< 38.5	< 7	PASS
V	Н	845.5	25.06	0.321	< 38.5	< 7	PASS
HSDPA	Ĺ	825.2	22.96	0.198	< 38.5	< 7	PASS
I ISDEA	M	837.8	22.88	0.194	< 38.5	< 7	PASS
V	Н	845.3	22.79	0.190	< 38.5	< 7	PASS

11. Radiated Spurious Emission

11.1 Requirement

According to FCC §22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10*log(P)dB. This calculated to be -13dBm.

11.2 Test Procedure

- 1. Perform test system setup as section 5.1.2.
- 2. Make a limit line whose value is -13dBm on the Spectrum Analyzer, and set the RBW of the Spectrum Analyzer to 1MHz.
- 3. The low, middle and the high channels are selected to perform tests respectively. Set the TCH number to 128 as the low channel.
- 4. Employ the bi-log Test Antenna as the test system receiving antenna and set the frequency range of the Spectrum Analyzer from 30MHz to 3GHz.
- 5. The measurement is performed with the Test Antenna at both horizontal and vertical polarization respectively. Set the polarization of the Test Antenna to be horizontal.
- 6. Actuate the Turn Table to turn from 0 degrees to 360 degrees to find the maximum reading via the Spectrum Analyzer, mark the fundamental frequency and the harmonics thereof, after then record the harmonics and the plot.
- 7. Set the polarization of the Test Antenna to be vertical, then repeat step 6.
- 8. Employ the horn Test Antenna as the test system receiving antenna and set the frequency range of the Spectrum Analyzer from 3GHz to 10th harmonic of the fundamental frequency (here used 10GHz), then repeat step 5 to 7.
- 9. Set the TCH number to 190 as the middle channel, then repeat step 4 to 8.
- 10. Set the TCH number to 251 as the high channel, then repeat step 4 to 8.

11.3 Test Result

Table for the Harmonics

NOTE: "---" in the table following means that the emission power was too small to be measured and was at least 12dB below the limit.

Ma	Fragueray (MIII-)	Emission F	Limit (dDm)	
No.	Frequency (MHz)	Test Antenna Vertical	Test Antenna Horizontal	Limit (dBm)
		GSM850-Low Ch	iannel	
1	1648.40			-13
2	2472.60	-30.13	-35.21	-13
3	Other			>10
		EDGE-Low Cha	nnel	
1	1648.40	-29.56	-31.28	-13
2	2472.60			-13
3	Other			>10
		WCDMA-Low Ch	annel	
1	1655.20	-30.09	-30.82	-13
2	Other			>10
		HSDPA-Low Cha	annel	
1	1650.40	-28.13	-29.36	-13
2	Other			>10
		GSM850-Middle C	Channel	
1	1673.20			-13
2	2509.80	-29.06	-34.28	-13
3	Other			>10
		EDGE-Middle Ch	iannel	
1	1673.20	-30.34	-31.56	-13
2	Other			>10
		WCDMA-Middle C	hannel	
1	1675.40	-29.79	-30.45	-13
2	Other			>10
	•	HSDPA- Middle C	hannel	
1	1675.40	-31.62	-32.83	-13
2	Other			>10
		GSM850-High Ch	nannel	
1	2546.40	-31.25	-35.60	-13
2	Other			>10
		EDGE- High Cha	annel	
1	2546.40	-31.68	-32.41	-13
2	Other			>10
	1	WCDMA-High Ch	nannel	
1	1690.60	-30.87	-31.85	-13
3	2535.90			-13
3	Other			>10
	•	HSDPA- High Ch	annel	•
1	1690.60	-33.61	-35.26	-13
2	2535.90			-13
3	Other			>10

12. Frequency Stability

12.1 Frequency Stability Requirement

According to FCC §22.355, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

According to FCC §2.1055, the test conditions are:

(a) Temperature:

The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.

(b) Primary Supply Voltage:

For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

12.2 Test Procedure

- 1. Perform test system setup as section 5.1.3.
- Set the voltage of the DC Power Supply to normal supply voltage (here used 3.7V) and the temperature of the Temperature Chamber to vary from -30°C to +50°C at intervals of 10°C.
- 3. At each temperature level, the EUT is powered off and kept in the Temperature Chamber for two hours. 4. After sufficient stabilization, turn on the EUT, command it via the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 0 and Power Class = 1, and then establish a communication link between the EUT and the SS.
- 5. The low, middle and the high channels are selected to perform tests respectively. Set the TCH number to 128 as the low channel.
- 6. The frequency deviation is measured (directly read from the SS, which can report the parameter) within three minutes.
- 7. Set the TCH number to 190 as the middle channel, then repeat step 5.
- 8. Set the TCH number to 251 as the high channel, then repeat step 5.
- 9. Adjust the temperature of the Temperature Chamber as specified in step 2, then repeat step 3 to 7.
- 10. Set the voltage of the DC Power Supply to high extreme supply voltage (here used 4.2V) and the temperature of the Temperature Chamber to normal (here used +22°C), then repeat step 3 to 8.
- 11. Set the voltage of the DC Power Supply to low extreme supply voltage (here used 3.6V) and the temperature of the Temperature Chamber to normal (here used +22°C), then repeat step 3 to 8.

12.3 Test Result

GSM850 Band

No.	Test	Conditions	Frequency Deviation (Hz) at Channels Used						
NO.	Voltage	Temperature	Low	Middle	High	Limit (±2.5ppm)			
1		-30°C	-30.26	-33.35	-32.25				
2		-20°C	-27.34	-30.71	-27.48				
3		-10°C	-29.85	-33.40	-32.45				
4		0°C	25.67	-24.83	-27.19				
5	V-nor	+10°C	-23.55	-19.99	-22.49	(a) ±2060Hz for Low Channel			
6		+20°C	-28.12	-24.36	-25.32	(b) ±2096Hz for Middle Channel			
7		+30°C	-33.95	-30.01	-32.76	(c) ±3055Hz for High Channel			
8		+40°C	-40.51	-41.94	-42.77				
9		+50°C	-48.91	-49.62	-47.71				
10	V-high	+22°C	-31.49	-28.35	-32.51				
11	V-low	+22°C	-33.27	-32.67	-27.41				
	Result: PASS								

EDGE Band

No.	Test	Conditions	Frequency Deviation (Hz) at Channels Used						
INO.	Voltage	Temperature	Low	Middle	High	Limit (±2.5ppm)			
1		-30°C	-35.34	-37.24	-33.99				
2		-20°C	-29.34	-33.14	-28.28				
3		-10°C	-28.53	-34.23	-31.72				
4		0°C	-26.19	-24.26	-28.44				
5	V-nor	+10°C	-29.91	-24.90	-25.62	(d) ±2060Hz for Low Channel			
6		+20°C	-24.86	-26.73	-27.45	(e) ±2096Hz for Middle Channel			
7		+30°C	-30.22	-33.47	-31.24	(f) ±3055Hz for High Channel			
8		+40°C	-36.55	-39.81	-42.43				
9		+50°C	-44.12	-47.26	-42.75				
10	V-high	+22°C	-32.54	-29.77	-34.84				
11	V-low	+22°C	-31.45	-30.61	-27.38				
	Result: PASS								

WCDMA V Band

No. Test		Conditions	Frequency Deviation (Hz) at Channels Used						
INO.	Voltage	Temperature	Low	Middle	High	Limit (±2.5ppm)			
1		-30°C	-34.69	-35.42	-31.87				
2		-20°C	-25.65	-23.71	-29.87				
3		-10°C	-27.65	-31.23	-30.50				
4		0°C	-26.89	-22.21	-28.24				
5	V-nor	+10°C	-25.55	-29.02	-25.46	(g) ±2060Hz for Low Channel			
6		+20°C	-29.71	-26.87	-27.11	(h) ±2096Hz for Middle Channel			
7		+30°C	-30.25	-33.54	-30.43	(i) ±3055Hz for High Channel			
8		+40°C	-45.32	-43.65	-41.21				
9		+50°C	-43.54	-42.64	-41.73				
10	V-high	+22°C	-35.16	-29.39	-32.21				
11	V-low	+22°C	-31.23	-35.46	-29.28				
	Result: PASS								

HSDPA V Band

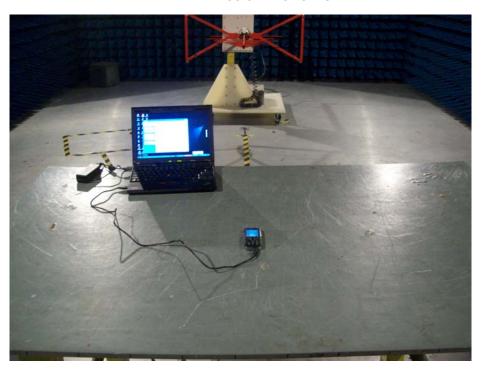
No. Test		Conditions	Frequency Deviation (Hz) at Channels Used						
INO.	Voltage	Temperature	Low	Middle	High	Limit (±2.5ppm)			
1		-30°C	-33.23	-35.32	-30.76				
2		-20°C	-26.44	-32.32	-27.92				
3		-10°C	-27.12	-31.32	-36.98				
4		0°C	-27.93	-28.34	-29.43				
5	V-nor	+10°C	-24.83	-23.83	-25.81	(j) ±2060Hz for Low Channel			
6		+20°C	-26.77	-27.36	-28.31	(k) ±2096Hz for Middle Channel			
7		+30°C	-30.52	-36.81	-35.94	(I) ±3055Hz for High Channel			
8		+40°C	-43.62	-41.06	-45.01				
9		+50°C	-46.22	-46.18	-43.64				
10	V-high	+22°C	-34.83	-29.24	-30.62				
11	V-low	+22°C	-31.26	-35.68	-29.73				
	Result: PASS								

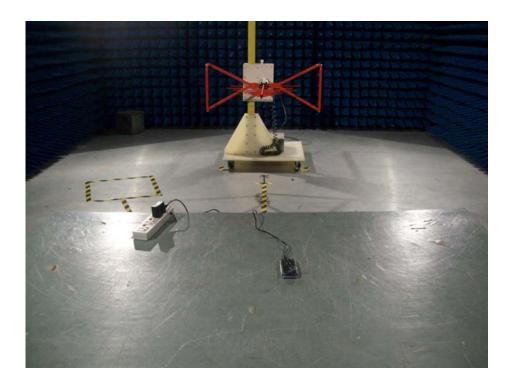
APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

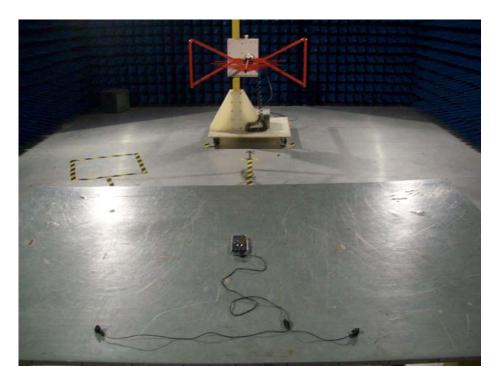
CONDUCTED TEST SETUP



RADIATED EMISSION TEST SETUP







APPENDIX 2 PHOTOGRAPHS OF EUT

FRONT VIEW OF SAMPLE



BACK VIEW OF SAMPLE



LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



TOP VIEW OF SAMPLE



BOTTOM VIEW OF SAMPLE



PHOTO OF POWER SUPPLY



PHOTO OF USB CABLE



PHOTO OF EARPHONE



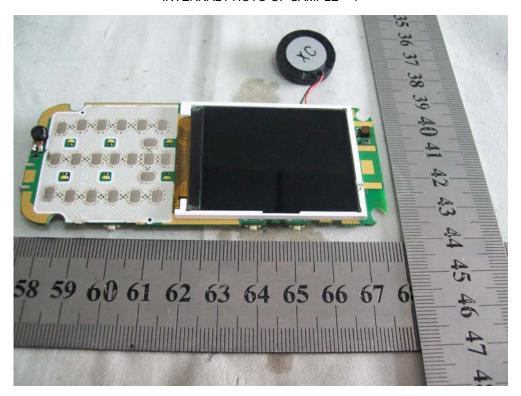
PHOTO OF BATTERY



PHOTO OF THE ENTIRE SAMPLE



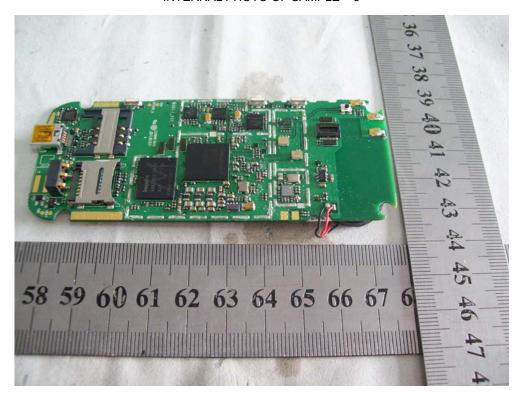
INTERNAL PHOTO OF SAMPLE - 1



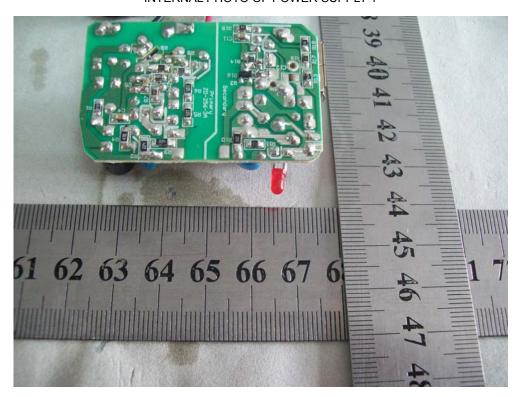
INTERNAL PHOTO OF SAMPLE -2



INTERNAL PHOTO OF SAMPLE - 3



INTERNAL PHOTO OF POWER SUPPLY-1



INTERNAL PHOTO OF POWER SUPPLY-2



-----END OF REPORT-----