

FCC 47 CFR PART 24 SUBPART E TEST REPORT

For

Applicant: SAA Limited.

31/F, Prosperity Millennia Plaza No. 663 King's Road North

Address: Point, Hong Kong.

Product Name: GSM Mobile Phone

Model Name: Venus

Brand Name: Kata

FCC ID: ZCL-KA1000

Report No.: STS110302F4

Date of Issue: March. 22, 2011

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

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

Nanshan, Shenzhen, Guangdong ,China

Tel: 86-755-2795 8522

Fax: 86-755-2795 8022

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. GENERAL INFORMATION	5
2.1 Product Information	5
2.2 Objective	6
2.3 Test Standards and Results	6
2.4 Environmental Conditions	6
3. TEST FACILITY	7
4. TEST EQUIPMENT LIST	8
5. 47 CFR Part 2, Part 24E Requirements	9
5.1 General Information	9
5.1.1 Conducted Related Tests	9
5.1.2 Radiated Power and Spurious Emission Tests	10
5.1.3 Frequency Stability Test	11
6. FREQUENCIES	12
6.1. Requirement	12
6.2 Test Procedure	12
6.3 Test Result	12
7. Conducted RF Output Power	14
7.1 Requirement	14
7.2 Test Procedure	14
7.3 Test Result	14
8. OCCUPIED BANDWIDTH	17
8.1 Occupied Bandwidth Definition	17
8.2 Test Procedure	17
8.3 Test Result	17
9. CONDUCTED SPURIOUS EMISSION	20
9.1 Requirement	20
9.2 Test Procedure	20
9.3 Test Result	21
10. Transmitter Radiated Power (EIRP/ERP)	26
10.1 Requirement	26
10.2 Test Procedure	26
10.3 Test Result	26
11. Radiated Spurious Emission	27
11.1 Requirement	27
11.2 Test Procedure	27

11.3 Test Result	28
12. Frequency Stability	29
12.1 Frequency Stability Requirement	29
12.2 Test Procedure	29
12.3 Test Result	30
APPENDIX 1	31
PHOTOGRAPHS OF TEST SETUP	31
APPENDIX 2	33
PHOTOGRAPHS OF EUT	33

1. VERIFICATION OF CONFORMITY

Equipment Under Test: GSM Mobile Phone

Brand Name: Kata Model Number: Venus

FCC ID: ZCL-KA1000

Applicant: SAA Limited.

31/F, Prosperity Millennia Plaza No.663 King's Road North Point, Hong Kong

Manufacturer: Hong Kong Karasnn Ltd.

1208/F, Excellence TimesPlaza Building, Yitian Road 4068, Futian District,

Shenzhen, China

Technical Standards: 47 CFR Part 2

47 CFR Part 24 Subpart E

File Number: STS110302F4

Date of test: March. 10 ~ March. 22, 2011

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/Engineer March. 23, 2011

Review by (+ signature):

July Wen/Lab Manager March. 23, 2011

Approved by (+ signature):

Terry Yang/Manager March. 23, 2011

2. GENERAL INFORMATION

2.1 Product Information

EUT1- Mobile Phone			
Description:	GSM Mobile Phone		
Model Name:	Venus		
IMEI No.:	357369033792985/ 357369033792993		
Hardware Version:	V1.3		
Software Version:	E728_KLX1WBALLH8.01.0		
Frequency:	Tx: 824.2-848.8 MHz 1850.2-1909.8 MHz		
	Rx: 849.2-893.8 MHz 1930.2-1989.8 MHz		
Ancillary Equipment – Power S	upply		
Description:	Travel Charger		
Model Name:	Venus		
Brand Name:	Kata		
Manufacturer:	Xinyuan Electronic Products Co., Ltd.		
Rated Input:	AC 100-240V, 50/60HZ 0.1A		
Rated Output:	DC 5.4V, 550mA		
Length USB cable:	1.00m		
Ancillary Equipment – Battery			
Description:	Lithium-ion Battery		
Model Name:	Venus		
Brand Name:	Kata		
Manufacturer:	Shenzhen B&K Rechargeable Battery, Inc.		
Capacitance:	900 mAh		
Rated Voltage:	3.7V		
Charge Limit:	4.2V		

NOTE:

- 1. The EUT is a GSM Mobile Station, here only PCS 1900MHz band was tested in this report.
- 2. The transmitter (Tx) frequency arrangement of the PCS 1900MHz band for the EUT can be represented with a formula F(n)=1850.2+0.2*(n-512), $512 \le n \le 810$.
- 3. The normal, high and low voltage supply for the Battery of the EUT is separately 3.7V, 4.2V and 3.6V, which are specified by the applicant.
- 4. Please refer to Appendix 2 for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual

2.2 Objective

The objective of the report is to perform tests according to 47 CFR Part 2, Part 24 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 24 (10-1-05 Edition)	Personal Communications Services

2.3 Test Standards and Results

Test items and the results are as bellow:

No.	Rules	Test Type	Result	Date of Test
1	§2.106 §24.229	Frequencies	PASS	2011-03-23
2	§2.1046	Conducted RF Output Power at Antenna Terminal	PASS	2011-03-23
3	§2.1049	Occupied Bandwidth	PASS	2011-03-23
4	§2.1051 §2.1057 §24.238	Conducted Spurious Emission at Antenna Terminal	PASS	2011-03-23
5	§24.232	Transmitter Radiated Power (EIPR/ERP)	PASS	2011-03-23
6	§2.1053 §2.1057 §24.238	Radiated Spurious Emission	PASS	2011-03-23
7	§2.1055 §24.235	Frequency Stability	PASS	2011-03-23

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 C63.4:2009 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 C63.4:2009 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.

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.

Test Receiver Rohde & Schwarz ESCI 100492 2011/03/14 2012/03/14 2	No.	Equipment	.0 GHz or above. Manufacturer	Model No.	S/N	Calibration date	Calibration due date
Coaxial Switch	1	Test Receiver	Rohde & Schwarz	ESCI	100492		2012/03/14
4 Terminator Hubersuhner 50Ω No.1 2011/03/14 2012/03/14 5 RF Cable SchwarzBeck N/A No.1 2011/03/14 2012/03/14 6 Test Receiver Rohde & Schwarz ESPI 101202 2011/03/14 2012/03/14 7 Bilog Antenna Sunol JB3 A121208 2011/03/14 2012/03/14 8 Test Antenna - Horn Schwarzbeck BBHA 9120C — 2011/03/14 2012/03/14 9 Test Antenna - LOOP Schwarzbeck VULB 9163 — 2011/03/14 2012/03/14 10 Cable Resenberger N/A NO.1 2011/03/14 2012/03/14 11 Cable Schwarzbeck N/A NO.2 2011/03/14 2012/03/14 12 Cable Schwarzbeck N/A NO.2 2011/03/14 2012/03/14 13 DC Power Filter DuoJi DL2×30B N/A 2011/03/14 2012/03/14 14 Single Phase Power Line Filter	2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2011/03/14	2012/03/14
5 RF Cable SchwarzBeck N/A No.1 2011/03/14 2012/03/14 6 Test Receiver Rohde & Schwarz ESPI 101202 2011/03/14 2012/03/14 7 Bilog Antenna Sunol JB3 A121206 2011/03/14 2012/03/14 8 Test Antenna - Horn Schwarzbeck BBHA 9120C 2011/03/14 2012/03/14 9 Test Antenna - LOOP Schwarzbeck VULB 9163 2011/03/14 2012/03/14 10 Cable Resenberger N/A NO.1 2011/03/14 2012/03/14 11 Cable SchwarzBeck N/A NO.2 2011/03/14 2012/03/14 12 Cable SchwarzBeck N/A NO.3 2011/03/14 2012/03/14 13 DC Power Filter DuoJi DL2×30B N/A 2011/03/14 2012/03/14 14 Single Phase Power Line Filter DuoJi FNF 202B30 N/A 2011/03/14 2012/03/14 15 3 Phase Power Li	3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2011/03/14	2012/03/14
6 Test Receiver Rohde & Schwarz ESPI 101202 2011/03/14 2012/03/14 7 Bilog Antenna Sunol JB3 A121206 2011/03/14 2012/03/14 8 Test Antenna - Horn Schwarzbeck BBHA 9120C 2011/03/14 2012/03/14 9 Test Antenna - LOOP Schwarzbeck VULB 9163 2011/03/14 2012/03/14 10 Cable Resenberger N/A NO.1 2011/03/14 2012/03/14 11 Cable SchwarzBeck N/A NO.2 2011/03/14 2012/03/14 12 Cable SchwarzBeck N/A NO.3 2011/03/14 2012/03/14 13 DC Power Filter DuoJi DL2×30B N/A 2011/03/14 2012/03/14 14 Single Phase Power Line Filter DuoJi FNF 202B30 N/A 2011/03/14 2012/03/14 15 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/14 2012/03/14 16 <t< td=""><td>4</td><td>Terminator</td><td>Hubersuhner</td><td>50Ω</td><td>No.1</td><td>2011/03/14</td><td>2012/03/14</td></t<>	4	Terminator	Hubersuhner	50Ω	No.1	2011/03/14	2012/03/14
7 Bilog Antenna Sunol JB3 A121206 2011/03/14 2012/03/14 8 Test Antenna - Horn Schwarzbeck BBHA 9120C 2011/03/14 2012/03/14 9 Test Antenna - LOOP Schwarzbeck VULB 9163 2011/03/14 2012/03/14 10 Cable Resenberger N/A NO.1 2011/03/14 2012/03/14 11 Cable SchwarzBeck N/A NO.2 2011/03/14 2012/03/14 12 Cable SchwarzBeck N/A NO.3 2011/03/14 2012/03/14 13 DC Power Filter DuoJi FNF 202B30 N/A 2011/03/14 2012/03/14 15 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/14 2012/03/14 15 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/14 2012/03/14 15 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/14 2012/03/14 16	5	RF Cable SchwarzBeck N/A		N/A	No.1	2011/03/14	2012/03/14
8 TestAntenna - Horn Schwarzbeck BBHA 9120C — 2011/03/14 2012/03/14 9 Test Antenna - LOOP Schwarzbeck VULB 9163 — 2011/03/14 2012/03/14 10 Cable Resenberger N/A NO.1 2011/03/14 2012/03/14 11 Cable SchwarzBeck N/A NO.2 2011/03/14 2012/03/14 12 Cable SchwarzBeck N/A NO.3 2011/03/14 2012/03/14 13 DC Power Filter DuoJi FNF 202B30 N/A 2011/03/14 2012/03/14 14 Single Phase Power Line Filter DuoJi FNF 202B30 N/A 2011/03/14 2012/03/14 15 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/14 2012/03/14 16 Spectrum Analyzer Aglient 4408B MY41440460 2011/03/14 2012/03/14 17 Absorbing Clamp Luthi MDS21 3635 2011/03/14 2012/03/14 18	6	Test Receiver	Rohde & Schwarz	ESPI	101202	2011/03/14	2012/03/14
9 Test Antenna - LOOP Schwarzbeck VULB 9163 2011/03/14 2012/03/14 10 Cable Resenberger N/A NO.1 2011/03/14 2012/03/14 11 Cable SchwarzBeck N/A NO.2 2011/03/14 2012/03/14 12 Cable SchwarzBeck N/A NO.3 2011/03/14 2012/03/14 13 DC Power Filter DuoJi DL2×30B N/A 2011/03/14 2012/03/14 14 Single Phase Power Line Filter DuoJi FNF 202B30 N/A 2011/03/14 2012/03/14 15 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/14 2012/03/14 16 Spectrum Analyzer Aglient 4408B MY41440460 2011/03/14 2012/03/14 17 Absorbing Clamp Luthi MDS21 3635 2011/03/14 2012/03/14 18 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/14 2012/03/14 20	7	Bilog Antenna	Sunol	JB3	A121206	2011/03/14	2012/03/14
10	8	Test Antenna - Horn	Schwarzbeck	BBHA 9120C		2011/03/14	2012/03/14
11 Cable SchwarzBeck N/A NO.2 2011/03/14 2012/03/14 12 Cable SchwarzBeck N/A NO.3 2011/03/14 2012/03/14 13 DC Power Filter DuoJi DL2×30B N/A 2011/03/14 2012/03/14 14 Single Phase Power Line Filter DuoJi FNF 202B30 N/A 2011/03/14 2012/03/14 15 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/14 2012/03/14 16 Spectrum Analyzer Agilent 4408B MY41440460 2011/03/14 2012/03/14 17 Absorbing Clamp Luthi MDS21 3635 2011/03/14 2012/03/14 18 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/14 2012/03/14 19 AC Power Source Kikusui AC40MA LM003232 2011/03/14 2012/03/14 20 Test Analyzer Kikusui KHA1000 LM003720 2011/03/14 2012/03/14 21 Line Impendence Network Kikusui KES4021 LM003537 2011/03/14 2012/03/14 22 ESD Tester Kikusui KES4021 LM003537 2011/03/14 2012/03/14 23 EMCPRO System EM Test UCS-500-M4 V064810202 2011/03/14 2012/03/14 24 Signal Generator IFR 2032 203002/100 2011/03/14 2012/03/14 25 Amplifier A&R 150W1000 301584 2011/03/14 2012/03/14 26 CDN FCC FCC-801-M2-25 47 2011/03/14 2012/03/14 27 CDN FCC FCC-801-M3-25 107 2011/03/14 2012/03/14 28 EM Injection Clamp FCC F-2031-23mm 403 2011/03/14 2012/03/14 29 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/14 2012/03/14 20 2011/03/14 2012/03/1	9	Test Antenna - LOOP	Schwarzbeck	VULB 9163		2011/03/14	2012/03/14
Cable SchwarzBeck N/A NO.3 2011/03/14 2012/03/14	10	Cable	Resenberger	N/A	NO.1	2011/03/14	2012/03/14
DC Power Filter DuoJi DL2×30B N/A 2011/03/14 2012/03/14	11	Cable	SchwarzBeck	N/A	NO.2	2011/03/14	2012/03/14
14 Single Phase Power Line Filter DuoJi FNF 202B30 N/A 2011/03/14 2012/03/14 15 3 Phase Power Line Filter DuoJi FNF 402B30 N/A 2011/03/14 2012/03/14 16 Spectrum Analyzer Agilent 4408B MY41440460 2011/03/14 2012/03/14 17 Absorbing Clamp Luthi MDS21 3635 2011/03/14 2012/03/14 18 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/14 2012/03/14 19 AC Power Source Kikusui AC40MA LM003232 2011/03/14 2012/03/14 20 Test Analyzer Kikusui KHA1000 LM003720 2011/03/14 2012/03/14 21 Line Impendence Network Kikusui KES4021 LM003532 2011/03/14 2012/03/14 22 ESD Tester Kikusui KES4021 LM003537 2011/03/14 2012/03/14 23 EMCPRO System EM Test UCS-500-M4 V064810202 2011/03/14 2012/03/14 </td <td>12</td> <td>Cable</td> <td>SchwarzBeck</td> <td>N/A</td> <td>NO.3</td> <td>2011/03/14</td> <td>2012/03/14</td>	12	Cable	SchwarzBeck	N/A	NO.3	2011/03/14	2012/03/14
Filter DuoJi FNF 202830 N/A 2011/03/14 2012/03/14 15 3 Phase Power Line Filter DuoJi FNF 402830 N/A 2011/03/14 2012/03/14 16 Spectrum Analyzer Agilent 4408B MY41440460 2011/03/14 2012/03/14 17 Absorbing Clamp Luthi MDS21 3635 2011/03/14 2012/03/14 18 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/14 2012/03/14 19 AC Power Source Kikusui AC40MA LM003232 2011/03/14 2012/03/14 20 Test Analyzer Kikusui KHA1000 LM003720 2011/03/14 2012/03/14 21 Line Impendence Network Kikusui LIN40MA-PCR-L LM002352 2011/03/14 2012/03/14 22 ESD Tester Kikusui KES4021 LM003537 2011/03/14 2012/03/14 23 EMCPRO System EM Test UCS-500-M4 V064810202 66 2011/03/14 2012/03/14 24 Signal Generator IFR 2032 203002/100 2011/03/14 2012/03/14 25 Amplifier A&R 150W1000 301584 2011/03/14 2012/03/14 26 CDN FCC FCC-801-M2-25 47 2011/03/14 2012/03/14 27 CDN FCC FCC-801-M3-25 107 2011/03/14 2012/03/14 28 EM Injection Clamp FCC F-203I-23mm 403 2011/03/14 2012/03/14 29 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/14 2012/03/14 30 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/14 2012/03/14	13	DC Power Filter	DuoJi	DL2×30B	N/A	2011/03/14	2012/03/14
16 Spectrum Analyzer Agilent 4408B MY41440460 2011/03/14 2012/03/14 17 Absorbing Clamp Luthi MDS21 3635 2011/03/14 2012/03/14 18 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/14 2012/03/14 19 AC Power Source Kikusui AC40MA LM003232 2011/03/14 2012/03/14 20 Test Analyzer Kikusui KHA1000 LM003720 2011/03/14 2012/03/14 21 Line Impendence Network Kikusui LIN40MA-PCR-L LM002352 2011/03/14 2012/03/14 22 ESD Tester Kikusui KES4021 LM003537 2011/03/14 2012/03/14 23 EMCPRO System EM Test UCS-500-M4 V064810202 6 2011/03/14 2012/03/14 24 Signal Generator IFR 2032 203002/100 2011/03/14 2012/03/14 25 Amplifier A&R 150W1000 301584 2011/03/14 2012/03/14 <t< td=""><td>14</td><td></td><td>DuoJi</td><td>FNF 202B30</td><td>N/A</td><td>2011/03/14</td><td>2012/03/14</td></t<>	14		DuoJi	FNF 202B30	N/A	2011/03/14	2012/03/14
17 Absorbing Clamp Luthi MDS21 3635 2011/03/14 2012/03/14 18 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/14 2012/03/14 19 AC Power Source Kikusui AC40MA LM003232 2011/03/14 2012/03/14 20 Test Analyzer Kikusui KHA1000 LM003720 2011/03/14 2012/03/14 21 Line Impendence Network Kikusui LIN40MA-PCR-L LM002352 2011/03/14 2012/03/14 22 ESD Tester Kikusui KES4021 LM003537 2011/03/14 2012/03/14 23 EMCPRO System EM Test UCS-500-M4 V064810202 6 2011/03/14 2012/03/14 24 Signal Generator IFR 2032 203002/100 2011/03/14 2012/03/14 25 Amplifier A&R 150W1000 301584 2011/03/14 2012/03/14 26 CDN FCC FCC-801-M2-25 47 2011/03/14 2012/03/14 27<	15	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2011/03/14	2012/03/14
18 Coaxial Switch Anritsu Corp MP59B 6200283933 2011/03/14 2012/03/14 19 AC Power Source Kikusui AC40MA LM003232 2011/03/14 2012/03/14 20 Test Analyzer Kikusui KHA1000 LM003720 2011/03/14 2012/03/14 21 Line Impendence Network Kikusui LIN40MA-PCR-L LM002352 2011/03/14 2012/03/14 22 ESD Tester Kikusui KES4021 LM003537 2011/03/14 2012/03/14 23 EMCPRO System EM Test UCS-500-M4 V064810202 6 2011/03/14 2012/03/14 24 Signal Generator IFR 2032 203002/100 2011/03/14 2012/03/14 25 Amplifier A&R 150W1000 301584 2011/03/14 2012/03/14 26 CDN FCC FCC-801-M2-25 47 2011/03/14 2012/03/14 27 CDN FCC FCC-801-M3-25 107 2011/03/14 2012/03/14 28	16	Spectrum Analyzer	Agilent	4408B	MY41440460	2011/03/14	2012/03/14
19 AC Power Source Kikusui AC40MA LM003232 2011/03/14 2012/03/14 20 Test Analyzer Kikusui KHA1000 LM003720 2011/03/14 2012/03/14 21 Line Impendence Network Kikusui LIN40MA-PCR-L LM002352 2011/03/14 2012/03/14 22 ESD Tester Kikusui KES4021 LM003537 2011/03/14 2012/03/14 23 EMCPRO System EM Test UCS-500-M4 V064810202 6 2011/03/14 2012/03/14 24 Signal Generator IFR 2032 203002/100 2011/03/14 2012/03/14 25 Amplifier A&R 150W1000 301584 2011/03/14 2012/03/14 26 CDN FCC FCC-801-M2-25 47 2011/03/14 2012/03/14 27 CDN FCC FCC-801-M3-25 107 2011/03/14 2012/03/14 28 EM Injection Clamp FCC F-203I-23mm 403 2011/03/14 2012/03/14 29	17	Absorbing Clamp	Luthi	MDS21	3635	2011/03/14	2012/03/14
20 Test Analyzer Kikusui KHA1000 LM003720 2011/03/14 2012/03/14 21 Line Impendence Network Kikusui LIN40MA-PCR-L PCR-L LM002352 2011/03/14 2012/03/14 22 ESD Tester Kikusui KES4021 LM003537 2011/03/14 2012/03/14 23 EMCPRO System EM Test UCS-500-M4 V064810202 6 2011/03/14 2012/03/14 24 Signal Generator IFR 2032 203002/100 2011/03/14 2012/03/14 25 Amplifier A&R 150W1000 301584 2011/03/14 2012/03/14 26 CDN FCC FCC-801-M2-25 47 2011/03/14 2012/03/14 27 CDN FCC FCC-801-M3-25 107 2011/03/14 2012/03/14 28 EM Injection Clamp FCC F-203I-23mm 403 2011/03/14 2012/03/14 29 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/14 2012/03/14 30 Un	18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2011/03/14	2012/03/14
21 Line Impendence Network Kikusui LIN40MA-PCR-L PCR-L PCR-L LM002352 2011/03/14 2012/03/14 22 ESD Tester Kikusui KES4021 LM003537 2011/03/14 2012/03/14 23 EMCPRO System EM Test UCS-500-M4 V064810202 / 6 2011/03/14 2012/03/14 24 Signal Generator IFR 2032 203002/100 2011/03/14 2012/03/14 25 Amplifier A&R 150W1000 301584 2011/03/14 2012/03/14 26 CDN FCC FCC-801-M2-25 47 2011/03/14 2012/03/14 27 CDN FCC FCC-801-M3-25 107 2011/03/14 2012/03/14 28 EM Injection Clamp FCC F-203I-23mm 403 2011/03/14 2012/03/14 29 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/14 2012/03/14 30 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/14 2012/03/14	19	AC Power Source	Kikusui	AC40MA	LM003232	2011/03/14	2012/03/14
Eline Impendence Network Kikusui PCR-L EM002352 2011/03/14 2012/03/14	20	Test Analyzer	Kikusui	KHA1000	LM003720	2011/03/14	2012/03/14
23 EMCPRO System EM Test UCS-500-M4 V064810202 6 2011/03/14 2012/03/14 24 Signal Generator IFR 2032 203002/100 2011/03/14 2012/03/14 25 Amplifier A&R 150W1000 301584 2011/03/14 2012/03/14 26 CDN FCC FCC-801-M2-25 47 2011/03/14 2012/03/14 27 CDN FCC FCC-801-M3-25 107 2011/03/14 2012/03/14 28 EM Injection Clamp FCC F-203I-23mm 403 2011/03/14 2012/03/14 29 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/14 2012/03/14 30 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/14 2012/03/14	21	Line Impendence Network	Kikusui		LM002352	2011/03/14	2012/03/14
Signal Generator IFR 2032 203002/100 2011/03/14 2012/03/14 24 Signal Generator IFR 2032 203002/100 2011/03/14 2012/03/14 25 Amplifier A&R 150W1000 301584 2011/03/14 2012/03/14 26 CDN FCC FCC-801-M2-25 47 2011/03/14 2012/03/14 27 CDN FCC FCC-801-M3-25 107 2011/03/14 2012/03/14 28 EM Injection Clamp FCC F-203I-23mm 403 2011/03/14 2012/03/14 29 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/14 2012/03/14 30 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/14 2012/03/14 2012/03/14 2012/03/14 2012/03/14 2012/03/14 30 Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/14 2012/03/14	22	ESD Tester	Kikusui	KES4021		2011/03/14	2012/03/14
25 Amplifier A&R 150W1000 301584 2011/03/14 2012/03/14 26 CDN FCC FCC-801-M2-25 47 2011/03/14 2012/03/14 27 CDN FCC FCC-801-M3-25 107 2011/03/14 2012/03/14 28 EM Injection Clamp FCC F-203I-23mm 403 2011/03/14 2012/03/14 29 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/14 2012/03/14 30 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/14 2012/03/14	23	EMCPRO System	EM Test	UCS-500-M4		2011/03/14	2012/03/14
26 CDN FCC FCC-801-M2-25 47 2011/03/14 2012/03/14 27 CDN FCC FCC-801-M3-25 107 2011/03/14 2012/03/14 28 EM Injection Clamp FCC F-203I-23mm 403 2011/03/14 2012/03/14 29 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/14 2012/03/14 30 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/14 2012/03/14	24	Signal Generator	IFR	2032	203002/100	2011/03/14	2012/03/14
27 CDN FCC FCC-801-M3-25 107 2011/03/14 2012/03/14 28 EM Injection Clamp FCC F-203I-23mm 403 2011/03/14 2012/03/14 29 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/14 2012/03/14 30 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/14 2012/03/14	25	Amplifier	A&R	150W1000	301584	2011/03/14	2012/03/14
28 EM Injection Clamp FCC F-203I-23mm 403 2011/03/14 2012/03/14 29 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/14 2012/03/14 30 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/14 2012/03/14	26	CDN	FCC	FCC-801-M2-25	47	2011/03/14	2012/03/14
29 RF Cable MIYAZAKI N/A No.1/No.2 2011/03/14 2012/03/14 30 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/14 2012/03/14	27	CDN	FCC	FCC-801-M3-25	107	2011/03/14	2012/03/14
30 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2011/03/14 2012/03/14	28	EM Injection Clamp	FCC	F-203I-23mm	403	2011/03/14	2012/03/14
Communication Tester ROHDE&SCHWARZ CM0200 0304789 2011/03/14 2012/03/14	29		MIYAZAKI	N/A	No.1/No.2	2011/03/14	2012/03/14
31 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2011/03/14 2012/03/14	30		ROHDE&SCHWARZ	CMU200	0304789	2011/03/14	2012/03/14
	31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2011/03/14	2012/03/14
32 Temperature Chamber Guangzhou Gongwen GDS-250 N/A 2011/03/14 2012/03/14					1		

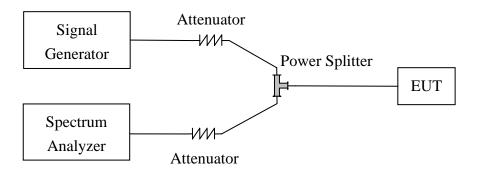
NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 2, Part 24E Requirements

5.1 General Information

5.1.1 Conducted Related Tests

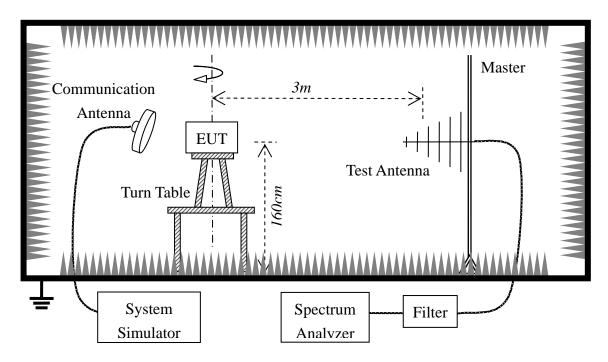
Based on ANSI/TIA-603-C-2004



- 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. Set the spectrum analyzer to measure peak hold with the required settings.
- 4. Set the signal generator to a known output power and record the path loss in dB (LOSS) for frequencies up to the tenth harmonic of the EUT's carrier frequency. LOSS = Generator Output Power (dBm) Analyzer reading (dBm).
- 5. Replace the signal generator with the EUT.
- 6. Adjust the settings of the Digital Radio communication Tester (DRT) to set the EUT to its maximum power at the required channel.
- 7. Set the spectrum analyzer to measure peak hold with the required settings. Offset the spectrum analyzer reference level by the path loss measured above.
- 8. Measure and record all spurious emissions up to the tenth harmonic of the carrier frequency.
- Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.
- 10. If necessary steps 7 and 8 may be performed with the spectrum analyzer set to average detector. Note: Step 4 above is performed prior to testing and LOSS is recorded by test software. Steps 3, 7, and 8 above are performed with test software.

5.1.2 Radiated Power and Spurious Emission Tests

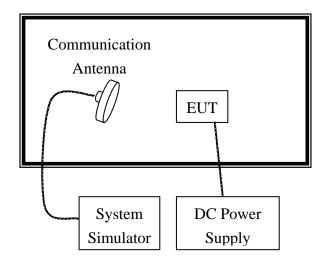
Based on ANSI/TIA-603-C-2004



- 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. Connect the equipment as shown in the above diagram with the EUT'S antenna in a vertical orientation.
- 3. Adjust the setting of System Simulator to set the EUT to its maximum power at the require channel.
- 4. Set the Spectrum Analyzer to the channel frequency, set the analyzer to measure peak hold with the required setting.
- 5. Rotate the EUT 360 degree, recorded the peak level in dBm(LVL).
- 6. Replace the EUT with a vertically polarized half wave dipole or known gain antenna. The center of the antenna should be at the same location as the center of the EUT's antenna.
- 7. Connect the antenna to a signal generator with known output power and record the path loss in dB (Loss), Loss=Generator Output Power(dBm)- Spectrum Analyzer reading Power(dBm).
- Determine the ERP using the following equation: ERP(dBm)=LVL(dBm)+Loss(dB)
- Determine the EiRP using the following equation:
 EIRP(dBm)= ERP(dBm)+2.14(dB)
- 10. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.

Note: Steps 6 and 7 above are performed prior to setting and Loss is recorded by test software.

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 520.

6. FREQUENCIES

6.1. Requirement

According to FCC §24.229, the frequencies available in the Broadband PCS services are listed as below, in accordance with the frequency allocations table of FCC §2.106.

(a) The following frequency blocks are available for assignment on an MTA basis:

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Block A: 1850 - 1865MHz paired with 1930 - 1945MHz;
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Block B: 1870 - 1885MHz paired with 1950 - 1965MHz.

(b) The following frequency blocks are available for assignment on a BTA basis:

Block C: 1895 - 1910 MHz paired with 1975 - 1990MHz;

Block D: 1865 - 1870 MHz paired with 1945 - 1950MHz;

Block E: 1885 - 1890 MHz paired with 1965 - 1970MHz;

Block F: 1890 - 1895 MHz paired with 1970 - 1975MHz.

6.2 Test Procedure

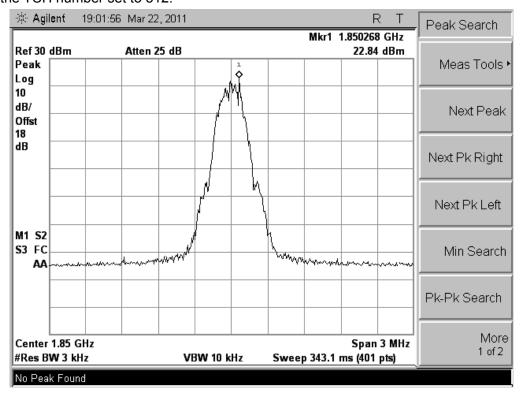
- 1. Perform test system setup as section 5.1.1.
- The resolution bandwidth of the Spectrum Analyzer is set to at lease one percent of the emission bandwidth of the fundamental emission of the transmitter, e.g. for GSM modulated signal (here used): RBW=VBW=3kHz, for CDMA modulated signal: RBW=VBW=30kHz.
- 3. The lowest and the highest channels are selected to perform tests respectively. Set the TCH number to 512 via the SS as the lowest channel.
- 4. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the plot.
- 5. Set the TCH number to 810 as the highest channel, then repeat step 4.

6.3 Test Result

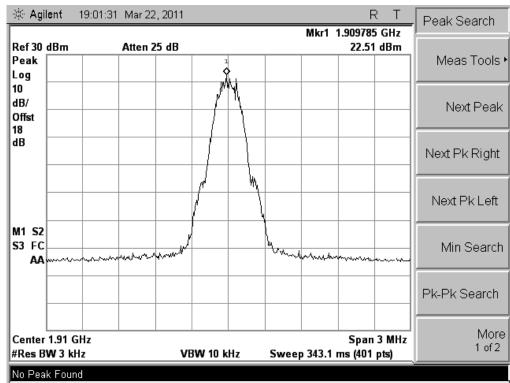
The transmitter (Tx) frequency arrangement of the PCS 1900MHz band is represented with a formula

F(n)=1850.2+0.2*(n-512), $512 \le n \le 810$. The frequencies of the lowest channel and the highest channel are listed as follows.

1. Plot when the TCH number set to 512:



2. Plot when the TCH number set to 810:



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.

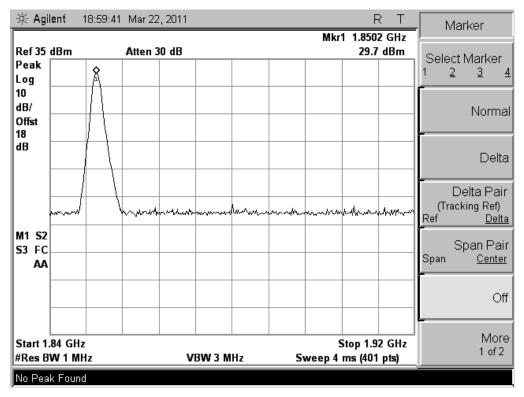
7.2 Test Procedure

- 1. Perform test system setup as section 5.1.1 (the radio frequency load attached to the EUT antenna terminal is 50Ω).
- 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 512 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 661 as the middle channel, then repeat step 4.
- 6. Set the TCH number to 810 as the high channel, then repeat step 4.

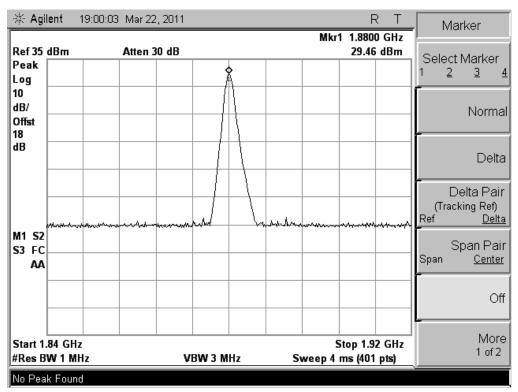
7.3 Test Result

No.	Channel Number	nnol Number Fraguency (MHz)		ed Power	Rated Po	wer
INO.	Chamilei Number	Frequency (MHz)	dBm	W	dBm	W
1	512	1850.2	29.70	0.933	30	1
2	661	1880.0	29.46	0.883	30	1
3	810	1909.8	29.45	0.881	30	1

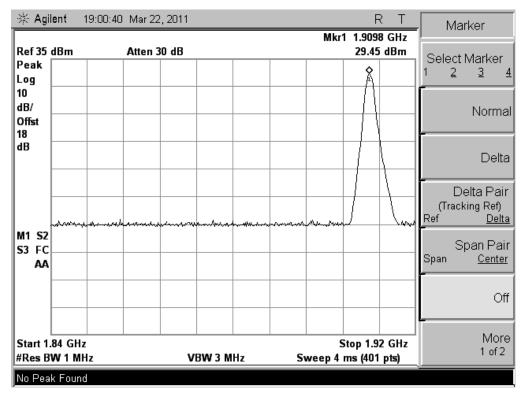
1. Plot when the TCH number set to 512:



2. Plot when the TCH number set to 661:



3. Plot when the TCH number set to 810:



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.

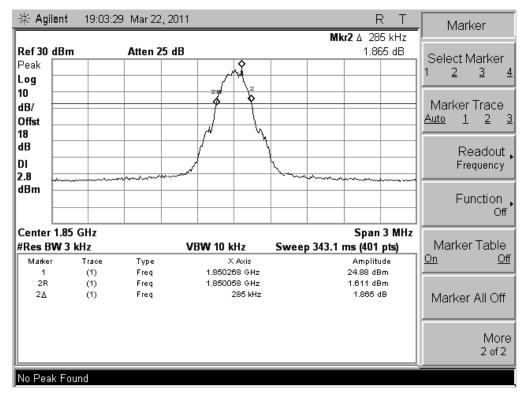
8.2 Test Procedure

- 1. 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 512 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 661 as middle channel, then repeat step 4.
- 6. Set the TCH number to 810 as high channel, then repeat step 4.

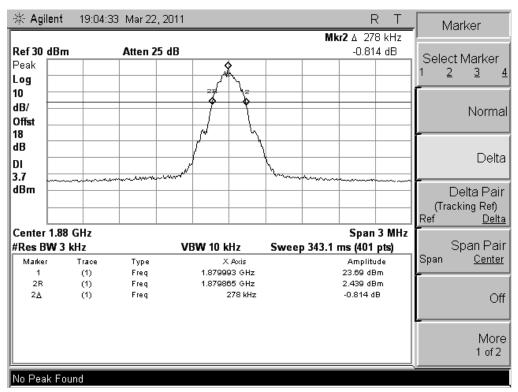
8.3 Test Result

No.	Channel	Frequency (MHz)	Measured Occupied Bandwidth (kHz)
1	512	1850.2	285.0
2	661	1880.0	278.0
3	810	1909.8	293.0

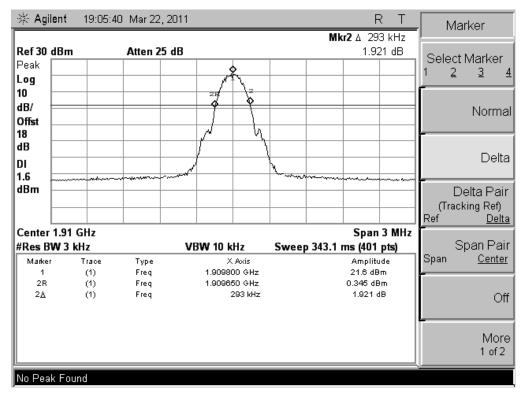
1. Plot when the TCH number set to 512:



2. Plot when the TCH number set to 661:



3. Plot when the TCH number set to 810:



9. CONDUCTED SPURIOUS EMISSION

9.1 Requirement

1. According to FCC §24.238(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.

2. According to FCC §24.238(b), 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 section 5.1.1.
- 2. Make a limit line whose value is -13dBm on the Spectrum Analyzer.
- The lowest, middle and the highest channels are selected to perform tests respectively. Set the TCH number to 512 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 661 as the middle channel, then repeat step 4.
- 7. Set the TCH number to 810 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. 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.

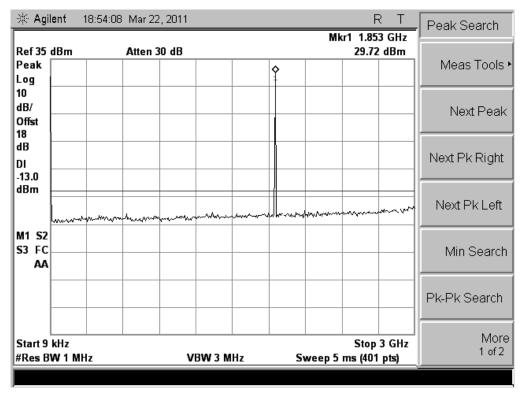
No.	Frequency (MHz)	Emission Power (dBm)	Limit (dBm)
	TCH	number set to 512 (1850.20MHz)	
1	3700.40	-40.44	-13
2	5550.60	-35.20	-13
3	7400.80	-29.69	-13
4	9251.00		-13
5	11101.20		-13
6	12951.40		-13
7	14801.60		-13
8	16651.80		-13
9	18502.00		-13
	TCH	number set to 661 (1880.00MHz)	
10	3760.00	-36.79	-13
11	5640.00	-39.23	-13
12	7520.00	-32.44	-13
13	9400.00		-13
14	11280.00		-13
15	13160.00		-13
16	15040.00		-13
17	16920.00		-13
18	18800.00		-13
		number set to 810 (1909.80MHz)	
19	3819.60	-31.47	-13
20	5729.40	-3080	-13
21	7639.20		-13
22	9549.00		-13
23	11458.80		-13
24	13368.60		-13
25	15278.40		-13
26	17188.20		-13
27	19098.00		-13

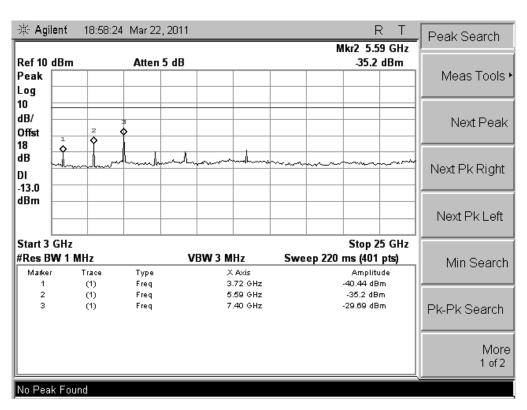
2. Plot for Spurious Emission:

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

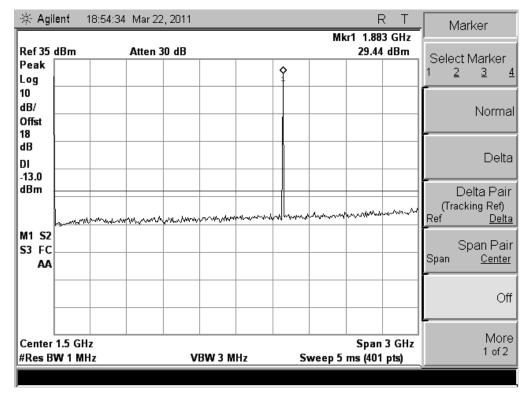
NOTE: The marker points are the Mobile Phone and/or System Simulator transmitting frequencies which should be ignored.

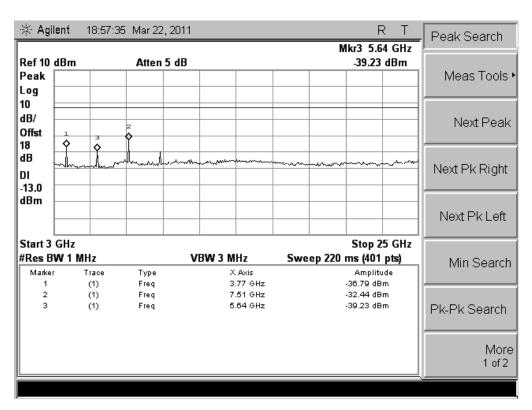
2.1 Plot when the TCH number set to 512:



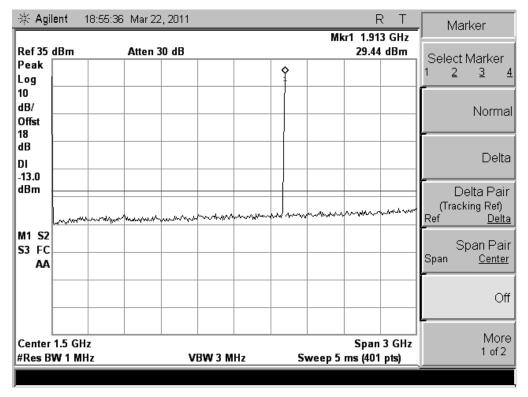


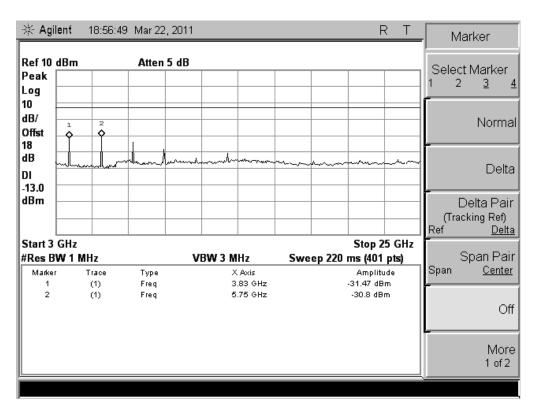
2.2 Plot when the TCH number set to 661:





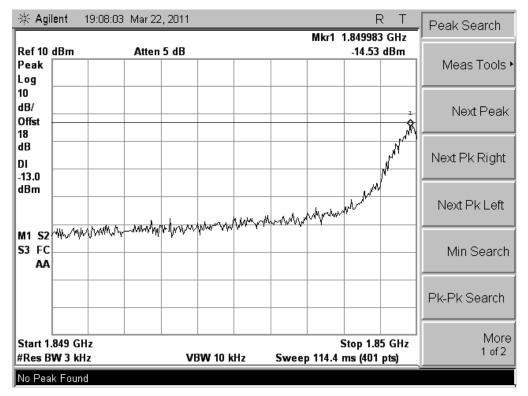
2.3 Plot when the TCH number set to 810:



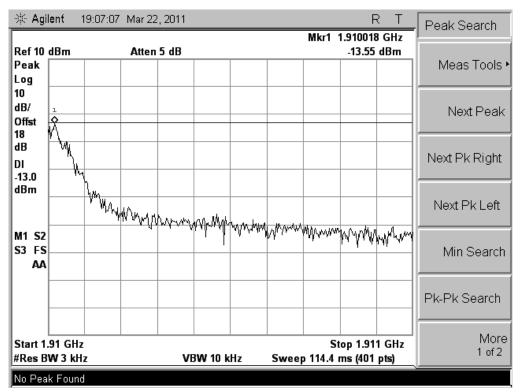


3. Plot for Band-edge

3.1 Plot when the TCH number set to 512:



3.2 Plot when the TCH number set to 810:



10. Transmitter Radiated Power (EIRP/ERP)

10.1 Requirement

According to FCC §24.232, the EIRP of Cellular mobile transmitters must not exceed 2 Watts (33dBm) e.i.r.p peak power.

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 512 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 661 as the middle channel, then repeat step 5.
- 7. Set the TCH number to 810 as the high channel, then repeat step 5.

10.3 Test Result

No.	Channel Fraguency (MHz)	Measured EIRP		Limit EIRP		Result	
INO.	Channel	Frequency (MHz)	dBm	W	dBm	W	Result
1	512	1850.20	29.38	0.867	< 33.0	< 2	PASS
2	661	1880.00	29.51	0.893	< 33.0	< 2	PASS
3	810	1909.80	29.42	0.875	< 33.0	< 2	PASS

11. Radiated Spurious Emission

11.1 Requirement

According to FCC §24.238(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 512 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 661 as the middle channel, then repeat step 4 to 8.
- 10. Set the TCH number to 810 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	Francisco (MIII-)	Emission I	Limit (dDm)	
No.	Frequency (MHz)	Test Antenna Vertical	Test Antenna Horizontal	Limit (dBm)
		TCH number set to 512 (1850.20MHz)	•
1	3700.40	-33.72	-34.11	-13
2	5550.60	-35.71	-37.93	-13
3	7400.80			-13
4	9251.00			-13
5	11101.20			-13
6	12951.40			-13
7	14801.60			-13
8	16651.80			-13
9	18502.00			-13
		TCH number set to 661	(1880.0MHz)	
10	3760.00	-33.14	-33.58	-13
11	5640.00	-36.26	-37.31	-13
12	7520.00			-13
13	9400.00			-13
14	11280.00			-13
15	13160.00			-13
16	15040.00			-13
17	16920.00			-13
18	18800.00			-13
		TCH number set to 810 (1909.80MHz)	
19	3819.60	-32.12	-33.25	-13
20	5729.40	-37.87	-37.56	-13
21	7639.20			-13
22	9549.00			-13
23	11458.80			-13
24	13368.60			-13
25	15278.40			-13
26	17188.20			-13
27	19098.00			-13

12. Frequency Stability

12.1 Frequency Stability Requirement

According to FCC §24.235, 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.
- 2. 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 512 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 661 as the middle channel, then repeat step 5.
- 8. Set the TCH number to 810 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

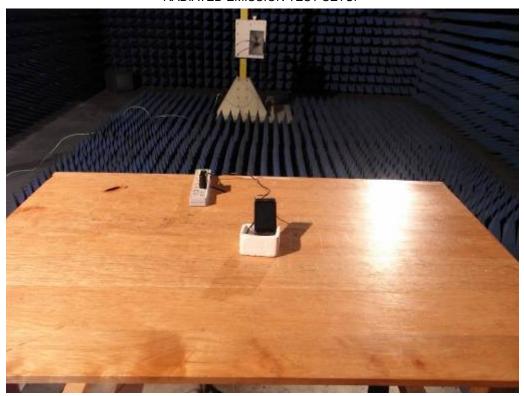
No.	Test	Conditions	Frequency Deviation (Hz) at Channels Used				
INO.	Voltage	Temperature	512	661	810	Limit (±2.5ppm)	
1		-30°C	-35.40	-44.53	-25.35		
2		-20°C	-36.17	-36.86	-21.29		
3		-10°C	-39.04	-31.55	-22.15		
4		0°C	-30.14	-29.43	-25.35		
5	V-nor	+10°C	-35.90	21.76	-27.29	(a) ±1850Hz at 512 Channel	
6		+20°C	-22.56	-34.58	-22.15	(b) ±1880Hz at 661 Channel	
7		+30°C	-35.46	-37.69	-36.77	(c) ±1910Hz at 810 Channel	
8		+40°C	-35.90	-36.98	-31.49		
9		+50°C	-26.83	-33.74	-40.12		
10	V-high	+22°C	-30.03	-38.58	-31.22		
11	V-low	+22°C	-23.97	-26.45	-29.75		
			F	Result: PA	SS		

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 USB LINE



PHOTO OF EARPHONE



PHOTO OF POWER SUPPLY



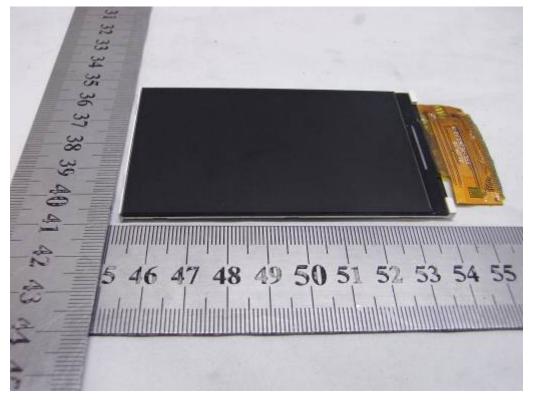
PHOTO OF BATTERY



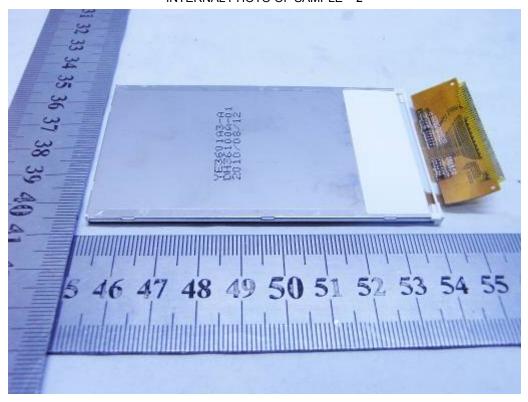
PHOTO OF THE ENTIRE SAMPLE



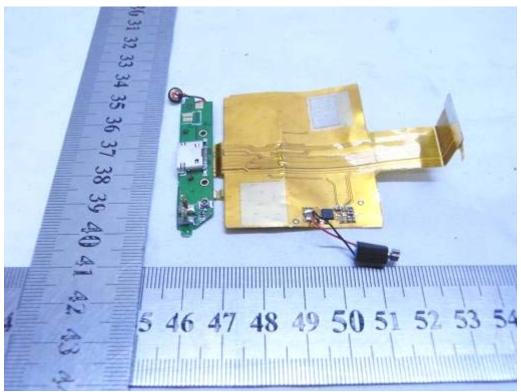
INTERNAL PHOTO OF SAMPLE - 1



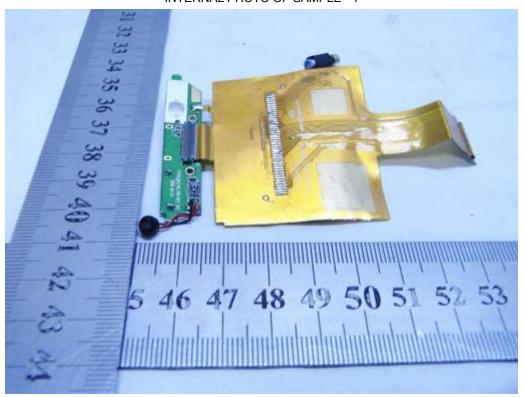
INTERNAL PHOTO OF SAMPLE – 2



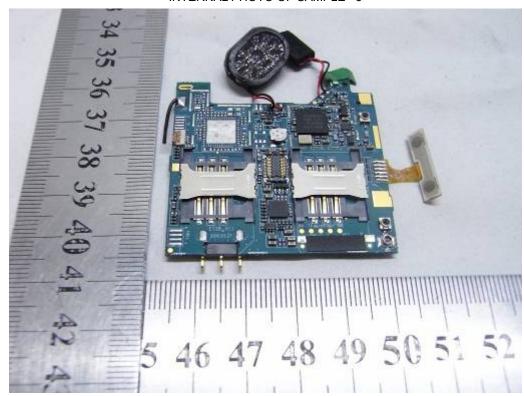
INTERNAL PHOTO OF SAMPLE -3



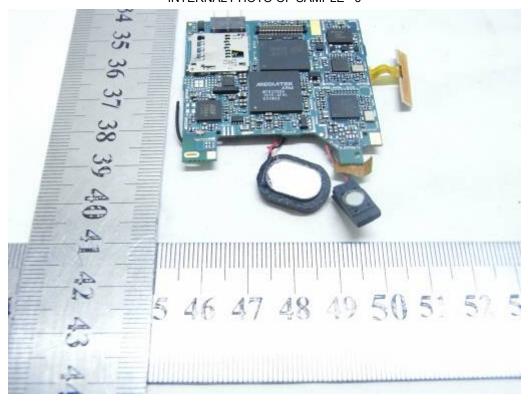
INTERNAL PHOTO OF SAMPLE -4



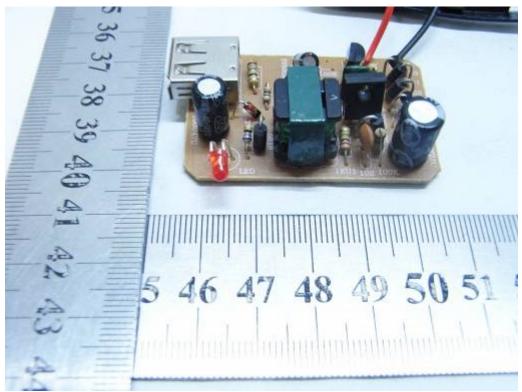
INTERNAL PHOTO OF SAMPLE -5



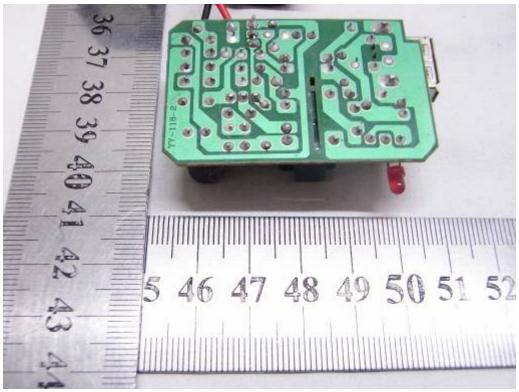
INTERNAL PHOTO OF SAMPLE -6



INTERNAL PHOTO OF POWER SUPPLY-1



INTERNAL PHOTO OF POWER SUPPLY-2



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