

FCC 47 CFR PART 22H and 24E

Product Type : Smartphone
Applicant : HTC Corporation
Address : No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330,
Taiwan
Trade Name : HTC
Model Number : PJ03100
Test Specification : FCC 47 CFR PART 22H: Oct, 2009
FCC 47 CFR PART 24E: Oct, 2009
ANSI/TIA-603-C-2004
Issue Date : Sep. 30, 2011

Issue by

A Test Lab Techno Corp.
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Taiwan Accreditation Foundation accreditation number: 1330

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	Sep. 14, 2011	Initial Issue	
01	Sep. 30, 2011	Revised 99 % Occupied Bandwidth results.	Joyce Liao

Verification of Compliance

Issued Date: 2011/09/30

Product Type : Smartphone
Applicant : HTC Corporation
Address : No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330,
Taiwan
Trade Name : HTC
Model Number : PJ03100
FCC ID : NM8PJ03100
EUT Rated Voltage : DC 5.0V, 1.0A
Test Voltage : 120 Vac / 60 Hz
Applicable : FCC 47 CFR PART 22H: Oct, 2009
Standard : FCC 47 CFR PART 24E: Oct, 2009
ANSI/TIA-603-C-2004

Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.

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<http://www.atl-lab.com.tw/e-index.htm>

The above equipment was tested by A Test Lab Techno Corp. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2009 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 22H, Part 24E.
The test results of this report relate only to the tested sample identified in this report.

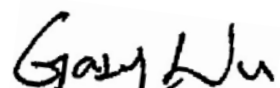
Approved By :



(Manager)

(Miller Lee)

Reviewed By :



(Testing Engineer)

(Gary Wu)

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1 General Information

1.1. EUT Description

Applicant		HTC Corporation			
Applicant Address		No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan			
Manufacturer		HTC Corporation			
Manufacturer Address		No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan			
Product Type		Smartphone			
Trade Name		HTC			
Model Number		PJ03100			
FCC ID		NM8PJ03100			
Mode	GSM/GPRS/ EGPRS/DTM	Band	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
		850	824.2 ~ 848.8	869.2 ~ 893.8	GMSK/8PSK
		1900	1850.2 ~ 1909.8	1930.2 ~ 1989.8	GMSK/8PSK
Channel Control		Auto			
Type of Antenna		PIFA Antenna			
Antenna Gain (dBi)		GSM/GPRS/EGPRS 850: -3.75 dBi GSM/GPRS/EGPRS 1900: -0.69 dBi			
Max. RF Output power		GSM/GPRS 850: 33.00 dBm / 1.995 W, EGPRS 850: 30.61 dBm / 1.151 W GSM/GPRS 1900: 30.30 dBm / 1.072 W, EGPRS 1900: 30.00 dBm / 1.000 W			
Max. ERP/EIRP		GSM/GPRS 850: 28.58 dBm / 0.721 W, EGPRS 850: 27.51 dBm / 0.564 W GSM/GPRS 1900: 30.74 dBm / 1.186 W, EGPRS 1900: 24.99 dBm / 0.316 W			
Emission Designator		GSM/GPRS 850: 250KGXW, EGPRS 850: 243KG7W GSM/GPRS 1900: 248KGXW, EGPRS 1900: 246KG7W			

1.2. Mode of Operation

ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: GSM 850 Link
Mode 2: GSM 1900 Link
Mode 3: EGPRS 850 Link
Mode 4: EGPRS 1900 Link

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

Tested System Details

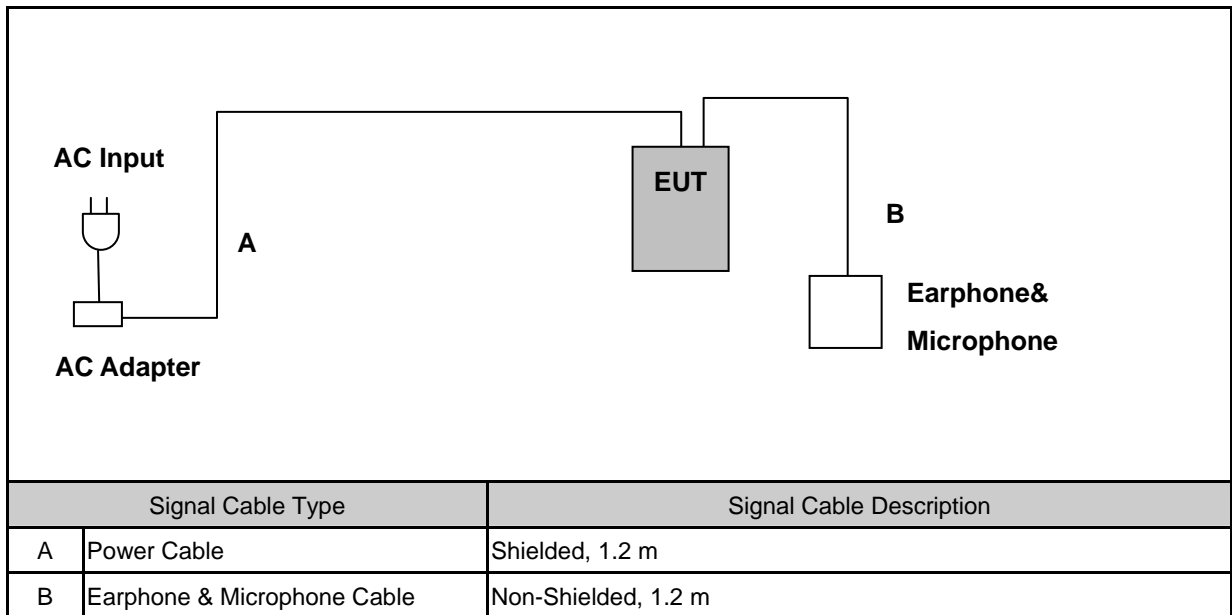
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model Number	Serial Number	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	109369	N/A

1.3. EUT Exercise Software

1.	Setup the EUT and Base Station (CMU200) as shown on 1.4.
2.	Turn on the power of all equipment.

1.4. Configuration of Test System Details



1.5. Test Site Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

1.6. Summary of Test Result

Description	FCC Rule	IC Rule	Limit	Result
Conducted Output Power	§2.1046	N/A	N/A	Pass
Effective Radiated Power	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	< 7 Watts for FCC (<6.3 Watts for IC)	Pass
Equivalent Isotropic Radiated Power	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	< 2 Watts	Pass
Occupied Bandwidth	§2.1049 §22.917(a) §24.238(a)	N/A	N/A	Pass
Band Edge Measurement	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1)RSS-133 (6.5.1)	< 43+10log ₁₀ (P[Watts])	Pass
Conducted Emission	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	< 43+10log ₁₀ (P[Watts])	Pass
Field Strength of Spurious Radiation	§2.1053 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	< 43+10log ₁₀ (P[Watts])	Pass
Frequency Stability for Temperature & Voltage	§2.1055 §22.355 §24.235	RSS-132(4.3) RSS-133(6.3)	< 2.5 ppm	Pass

2 RF Output Power Test

2.1. Limit

N/A

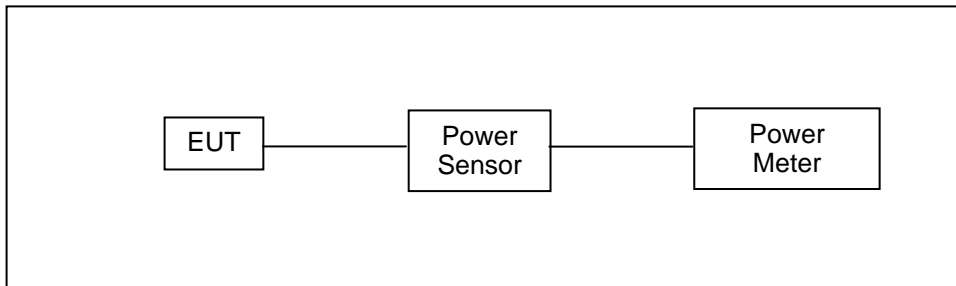
2.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Single Channel PK Power Sensor	Agilent	N1911A	MY45101619	07/19/2010	(2)
Wideband Power Meter	Agilent	N1921A	MY45241957	07/19/2010	(2)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

2.3. Test Setup



2.4. Test Procedure

The measurement is made according to ANSI/TIA-603-C-2004 as follows:

1. The transmitter output was connected to power meter and base station through power divider.
2. Set base station for EUT at GSM 850: PCL=5 and PCS 1900: PCL=0.
3. Set base station for EUT at WCDMA Band V and WCDMA Band II, power level was set to maximum.
4. Select lowest, middle, and highest channels for each band.

2.5. Uncertainty

The measurement uncertainty is defined as for RF output power measurement is 1.2 dB.

2.6. Test Result

Model Number	PJ03100					
Test Item	RF Output Power					
Test Mode	Mode 1: GSM 850 Link					
Date of Test	08/13/2011			Test Site	TE02	
Bands	Data Rate	Frequency (MHz)	Burst average power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
GSM 850	-----	824.2	32.80	1.905	32.90	1.950
		836.6	32.85	1.928	33.00	1.995
		848.8	32.70	1.862	32.90	1.950
GRRS 850	4Down1Up	824.2	32.81	1.910	32.91	1.954
		836.6	32.80	1.905	33.00	1.995
		848.8	32.71	1.866	32.91	1.954
	3Down2Up	824.2	32.73	1.875	32.83	1.919
		836.6	32.72	1.871	32.92	1.959
		848.8	32.63	1.832	32.83	1.919
	2Down3Up	824.2	31.13	1.297	31.23	1.327
		836.6	31.16	1.306	31.33	1.358
		848.8	31.04	1.271	31.24	1.330
	1Down4Up	824.2	29.54	0.899	29.64	0.920
		836.6	29.55	0.902	29.75	0.944
		848.8	29.48	0.887	29.68	0.929
EGPRS 850	4Down1Up	824.2	27.41	0.551	30.61	1.151
		836.6	27.39	0.548	30.59	1.146
		848.8	27.29	0.536	30.49	1.119
	3Down2Up	824.2	25.88	0.387	29.08	0.809
		836.6	25.80	0.380	29.00	0.794
		848.8	25.72	0.373	28.92	0.780
	2Down3Up	824.2	25.79	0.379	28.99	0.793
		836.6	25.78	0.378	28.98	0.791
		848.8	25.67	0.369	28.87	0.771
	1Down4Up	824.2	24.77	0.300	27.97	0.627
		836.6	24.75	0.299	27.95	0.624
		848.8	24.65	0.292	27.85	0.610
DTM GPRS 850	2Up (1CS+1PS)	824.2	32.70	1.862	32.80	1.905
		836.6	32.80	1.905	32.90	1.950
		848.8	32.70	1.862	32.80	1.905
	3Up (1CS+2PS)	824.2	31.08	1.282	31.20	1.318
		836.6	31.12	1.294	31.30	1.349
		848.8	31.08	1.282	31.30	1.349
DTM EGPRS 850	2Up (1CS+1PS)	824.2	25.80	0.380	32.90	1.950
		836.6	25.90	0.389	33.00	1.995
		848.8	25.80	0.380	32.90	1.950
	3Up (1CS+2PS)	824.2	25.80	0.380	31.30	1.349
		836.6	25.80	0.380	31.40	1.380
		848.8	25.80	0.380	31.30	1.349

Note: The peak power testing result was used peak detector.

Model Number	PJ03100					
Test Item	RF Output Power					
Test Mode	Mode 2: GSM 1900 Link					
Date of Test	08/13/2011			Test Site	TE02	
Bands	Data Rate	Frequency (MHz)	Burst average power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
GSM 1900	-----	1850.20	30.20	1.047	30.30	1.072
		1880.00	29.90	0.977	30.10	1.023
		1909.80	29.70	0.933	29.80	0.955
GRRS 1900	4Down1Up	1850.20	30.13	1.030	30.23	1.054
		1880.00	29.85	0.966	30.05	1.012
		1909.80	29.66	0.925	29.76	0.946
	3Down2Up	1850.20	30.12	1.028	30.22	1.052
		1880.00	29.83	0.962	30.03	1.007
		1909.80	29.64	0.920	29.74	0.942
	2Down3Up	1850.20	28.56	0.718	28.66	0.735
		1880.00	28.28	0.673	28.48	0.705
		1909.80	28.10	0.646	28.20	0.661
	1Down4Up	1850.20	27.10	0.513	27.20	0.525
		1880.00	26.80	0.479	26.90	0.490
		1909.80	26.60	0.457	26.70	0.468
EGPRS 1900	4Down1Up	1850.20	26.80	0.479	30.00	1.000
		1880.00	26.74	0.472	29.94	0.986
		1909.80	26.51	0.448	29.71	0.935
	3Down2Up	1850.20	25.73	0.374	28.93	0.782
		1880.00	25.67	0.369	28.87	0.771
		1909.80	25.48	0.353	28.68	0.738
	2Down3Up	1850.20	25.72	0.373	28.92	0.780
		1880.00	25.68	0.370	28.88	0.773
		1909.80	25.50	0.355	28.70	0.741
	1Down4Up	1850.20	24.17	0.261	27.37	0.546
		1880.00	24.12	0.258	27.32	0.540
		1909.80	23.96	0.249	27.16	0.520
DTM GPRS 1900	2Up (1CS+1PS)	1850.20	30.10	1.023	30.30	1.072
		1880.00	29.90	0.977	30.00	1.000
		1909.80	29.50	0.891	29.70	0.933
	3Up (1CS+2PS)	1850.20	28.40	0.692	28.60	0.724
		1880.00	28.30	0.676	28.40	0.692
		1909.80	28.00	0.631	28.10	0.646
DTM EGPRS 1900	2Up (1CS+1PS)	1850.20	25.80	0.380	30.30	1.072
		1880.00	25.60	0.363	30.10	1.023
		1909.80	25.30	0.339	29.80	0.955
	3Up (1CS+2PS)	1850.20	25.60	0.363	28.80	0.759
		1880.00	25.40	0.347	28.70	0.741
		1909.80	25.20	0.331	28.40	0.692

Note: The peak power testing result was used peak detector.

3 Effective Radiated Power / Equivalent Isotropic Radiated Power Test

3.1. Limit

For FCC Part 22.913(a)(2): The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

For FCC Part 24.232(b): The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

3.2. Test Instruments

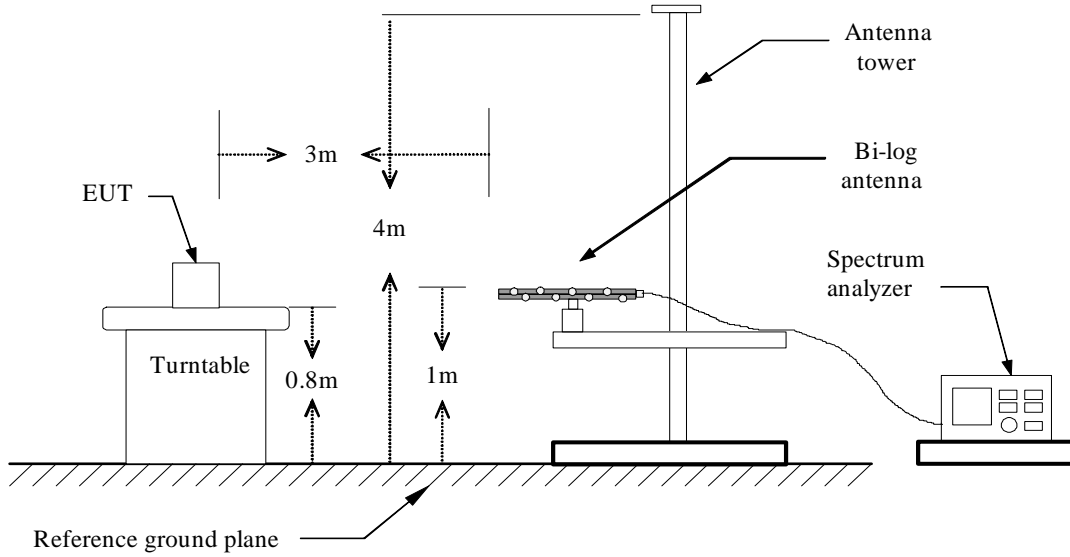
3 Meter Chamber (966-A)					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/18/2011	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/18/2011	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/23/2011	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/23/2011	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	07/29/2011	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/29/2011	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/28/2011	(1)
Test Site	ATL	TE01	888001	N.C.R.	(1)

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

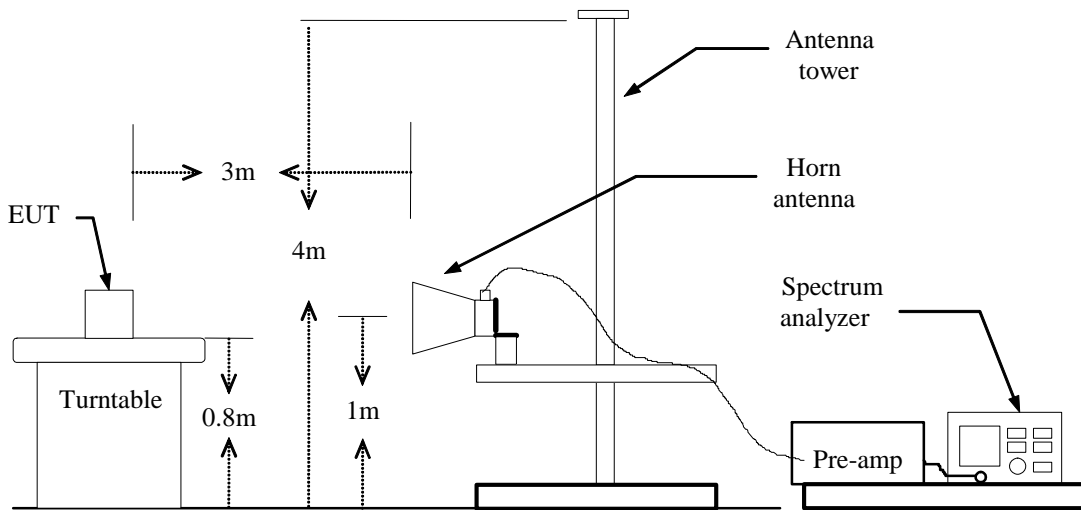
NOTE: N.C.R. = No Calibration Request.

3.3. Test Setup

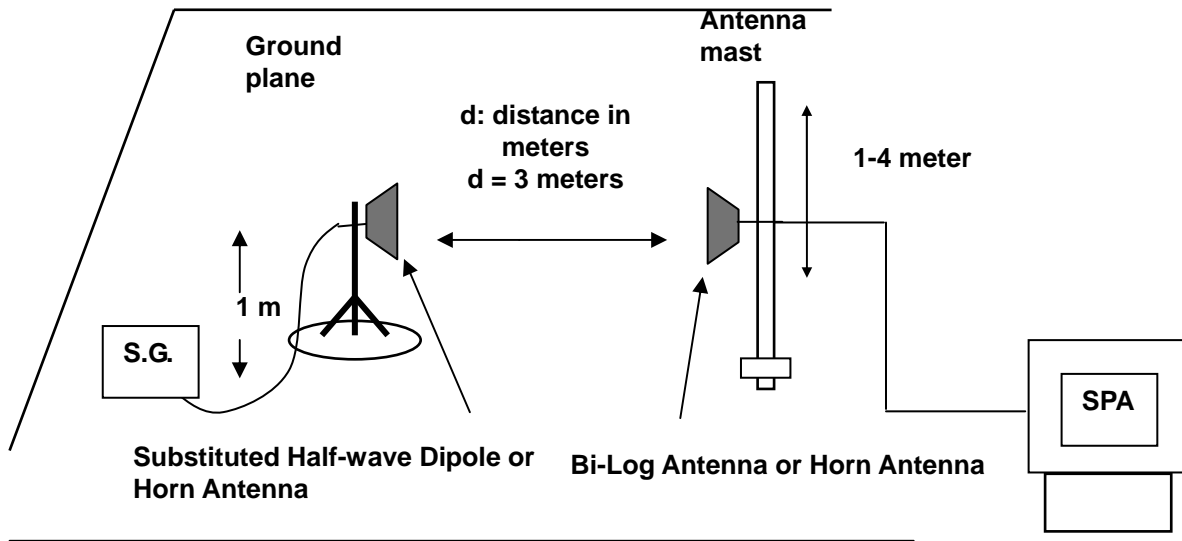
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



3.4. Test Procedure

The measurement is made according to ANSI/TIA-603-C-2004 as follows:

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement of the EUT, the resolution bandwidth was set to 3MHz and the average bandwidth was set to 3MHz. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824-849MHz, and EIRP in frequency band 1851.25 –1910MHz were measured using a substitution method. The EUT was replaced by half-wave dipole (824-849MHz) or horn antenna (1851.25-1910MHz) connected to a signal generator. The spectrum analyzer reading was recorded and ERP/EIRP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)}$$

3.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is ± 3.072 dB.

3.6. Test Result

Model Number	PC49120						
Test Item	ERP/EIRP						
Test Mode	Mode 1: GSM 850 Link						
Date of Test	08/24/2011				Test Site	TE01	
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	ERP		Limit
					(dBm)	(W)	
GSM 850	824.2	H	18.16	10.42	28.58	0.721	< 7W
		V	18.16	8.26	26.42	0.439	< 7W
	836.4	H	16.74	10.44	27.18	0.522	< 7W
		V	18.09	8.50	26.59	0.456	< 7W
	848.8	H	17.07	10.43	27.50	0.562	< 7W
		V	18.02	8.72	26.74	0.472	< 7W
EGPRS 850	824.2	H	15.71	10.42	26.13	0.410	< 7W
		V	18.14	8.26	26.40	0.437	< 7W
	836.4	H	16.81	10.44	27.25	0.531	< 7W
		V	17.38	8.50	25.88	0.387	< 7W
	848.8	H	17.07	10.44	27.51	0.564	< 7W
		V	17.70	8.72	26.42	0.439	< 7W

Model Number	PC49120						
Test Item	ERP/EIRP						
Test Mode	Mode 2: GSM 1900 Link						
Date of Test	08/24/2011				Test Site	TE01	
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	EIRP		Limit
					(dBm)	(W)	
GSM 1900	1850.20	H	18.79	11.95	30.74	1.186	< 2W
		V	14.19	11.29	25.48	0.353	< 2W
	1880.00	H	17.66	12.07	29.73	0.940	< 2W
		V	15.09	11.34	26.43	0.440	< 2W
	1909.80	H	16.98	12.50	29.48	0.887	< 2W
		V	15.54	11.47	27.01	0.502	< 2W
EGPRS 1900	1850.20	H	13.04	11.95	24.99	0.316	< 2W
		V	8.70	11.29	19.99	0.100	< 2W
	1880.00	H	12.03	12.07	24.10	0.257	< 2W
		V	9.52	11.34	20.86	0.122	< 2W
	1909.80	H	11.17	12.51	23.68	0.233	< 2W
		V	9.82	11.46	21.28	0.134	< 2W

Note: 1. ERP/EIRP = Read Level + Correction factor.

2. For WCDMA signals, a peak detector is used with RBW = VBW = 5MHz.

3. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW= 1 MHz.

4 Occupied Bandwidth Test

4.1. Limit

The Occupied Bandwidth Limit:

N/A.

The Band Edge Limit:

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.

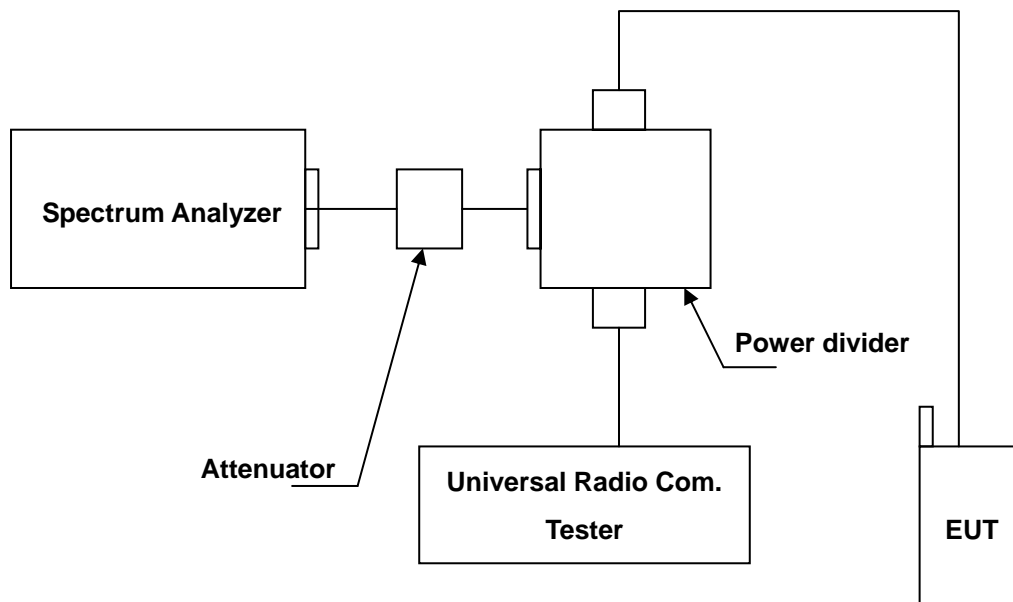
4.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/16/2011	(1)
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

4.3. Setup



4.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The occupied bandwidth of middle channel for the highest and lowest RF powers was measured.
3. The band edge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/100.
4. The band edge setting:
 - a. RB=10 kHz; VB=30 kHz for GSM 850 and PCS 1900.
 - b. RB=100 kHz; VB=300 kHz for WCDMA Band V and WCDMA Band II.

4.5. Uncertainty

The measurement uncertainty is defined as $\pm 10\text{Hz}$

4.6. Test Result

99% Occupied Bandwidth

Model Number	PJ03100		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: GSM 850 Link		
Date of Test	09/30/2011	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
128	824.2	244.8165	RBW:10KHz , VBW:30KHz
190	836.6	250.2041	RBW:10KHz , VBW:30KHz
251	848.8	246.8381	RBW:10KHz , VBW:30KHz

Figure Channel 128

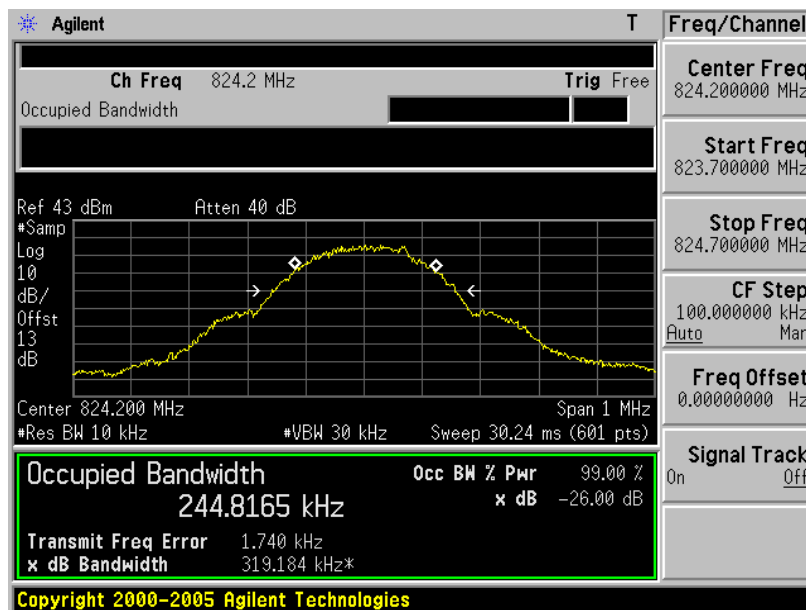


Figure Channel 190

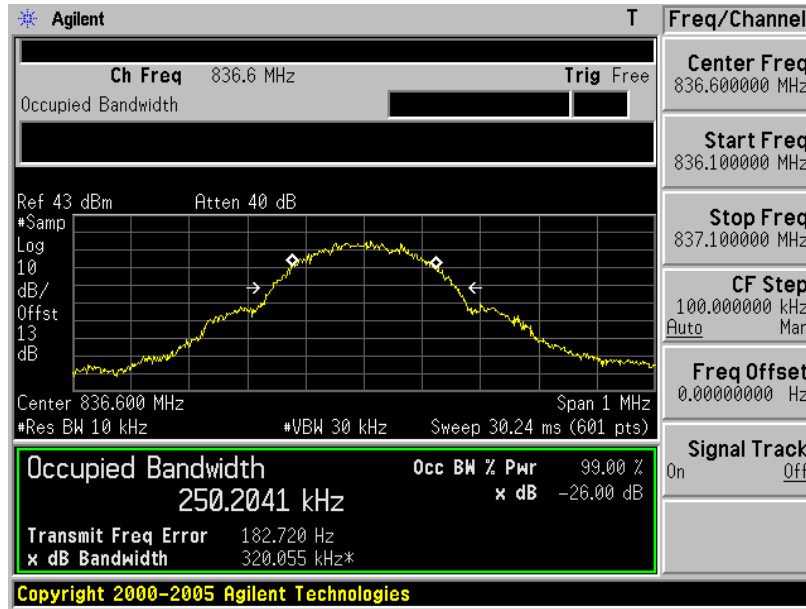
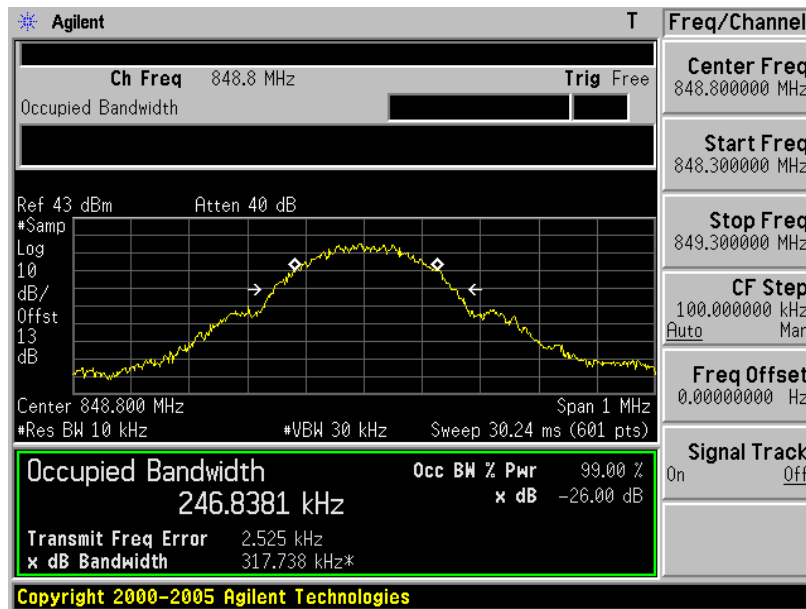


Figure Channel 251



Model Number	PJ03100		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: GSM 1900 Link		
Date of Test	09/30/2011	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
512	1850.20	248.0275	RBW:10KHz , VBW:30KHz
661	1880.00	244.8700	RBW:10KHz , VBW:30KHz
810	1909.80	247.7130	RBW:10KHz , VBW:30KHz

Figure Channel 512

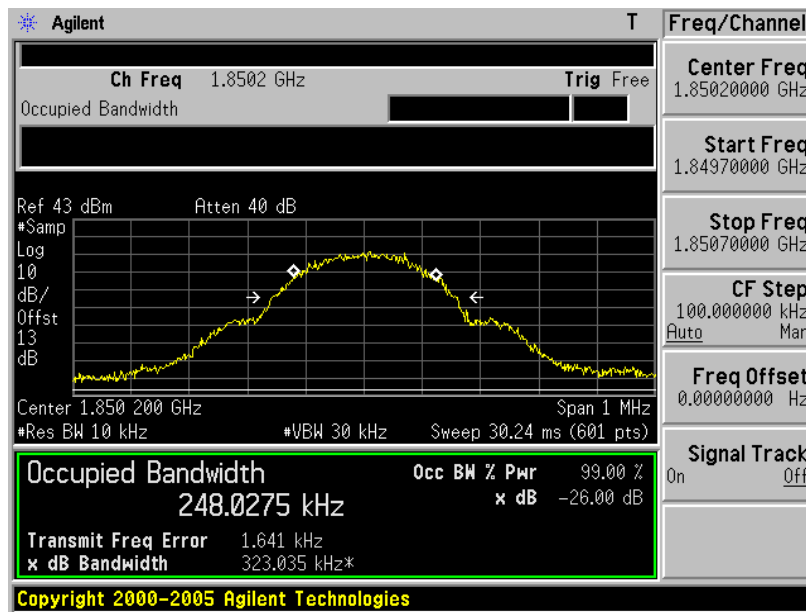


Figure Channel 661

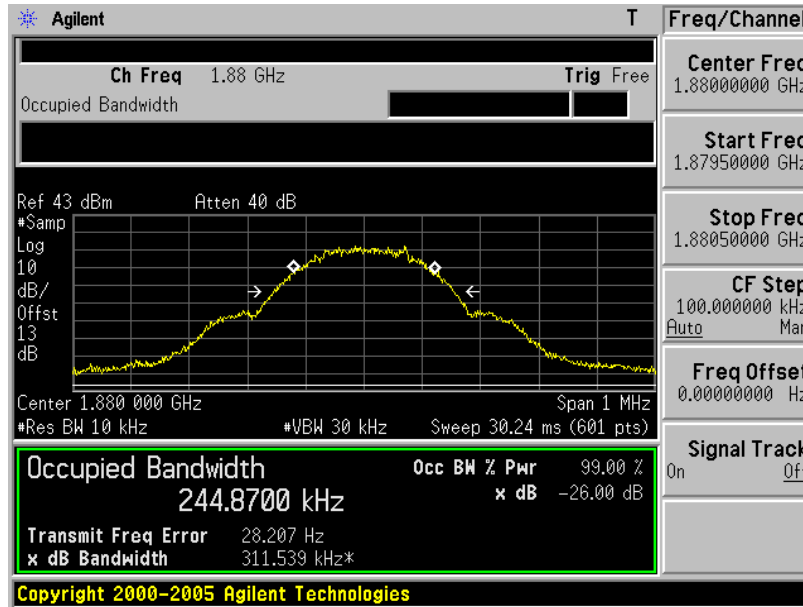
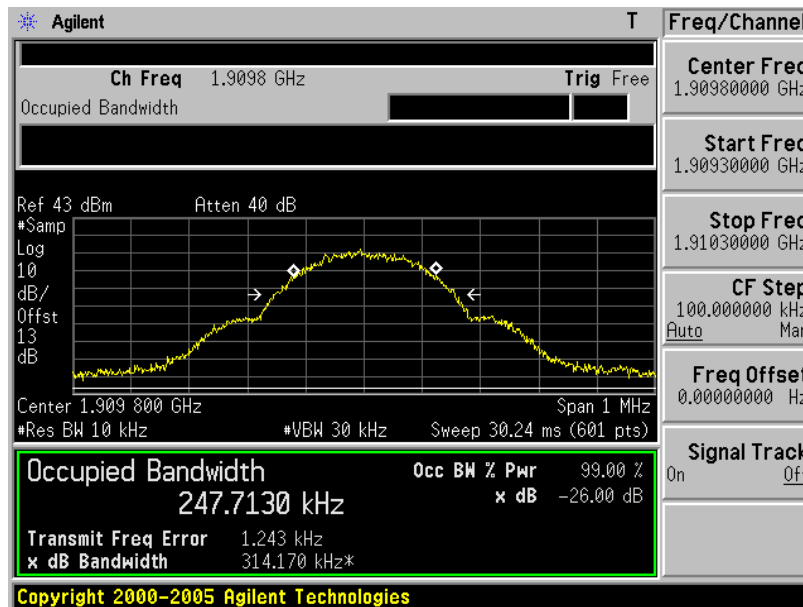


Figure Channel 810



Model Number	PJ03100		
Test Item	Occupied Bandwidth		
Test Mode	Mode 3: EGPRS 850 Link		
Date of Test	09/30/2011	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
128	824.2	243.2567	RBW:10KHz , VBW:30KHz
190	836.6	240.8769	RBW:10KHz , VBW:30KHz
251	848.8	242.3288	RBW:10KHz , VBW:30KHz

Figure Channel 128

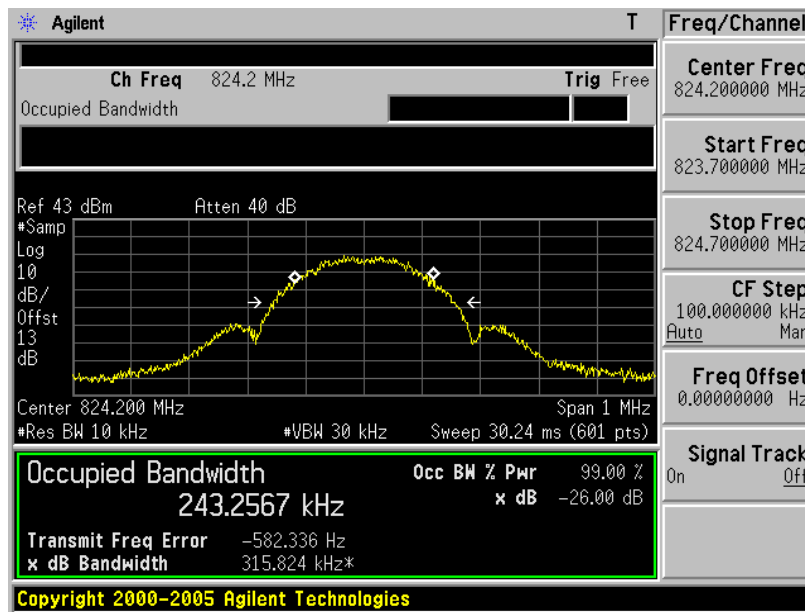


Figure Channel 190

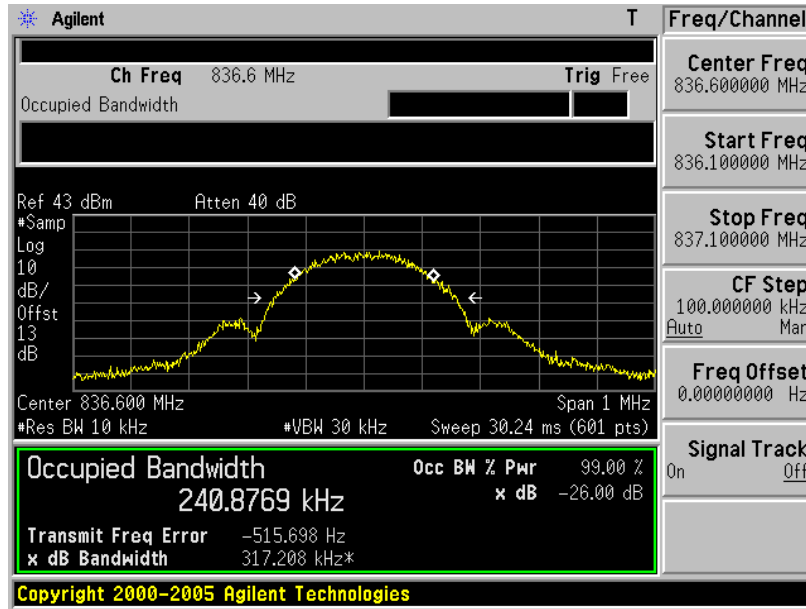
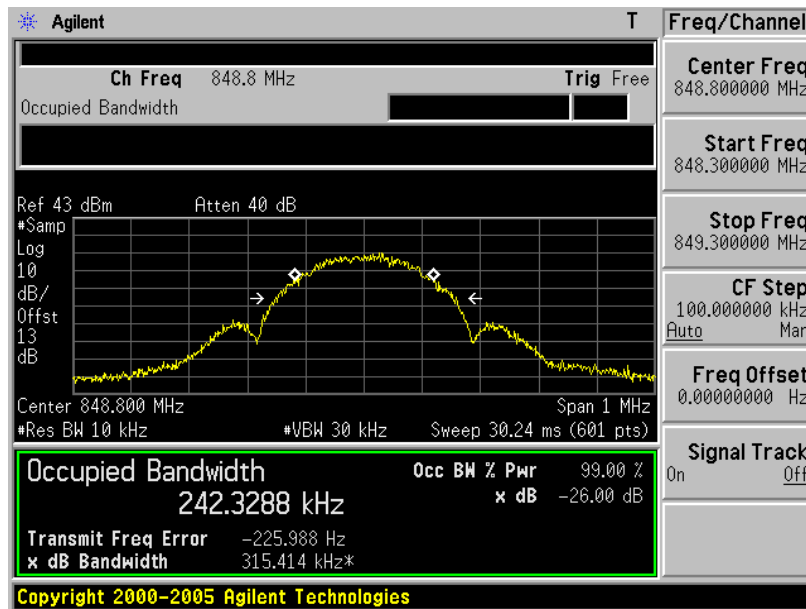


Figure Channel 251



Model Number	PJ03100		
Test Item	Occupied Bandwidth		
Test Mode	Mode 4: EGPRS 1900 Link		
Date of Test	09/30/2011	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
512	1850.20	243.4498	RBW:10KHz , VBW:30KHz
661	1880.00	242.9972	RBW:10KHz , VBW:30KHz
810	1909.80	245.7965	RBW:10KHz , VBW:30KHz

Figure Channel 512

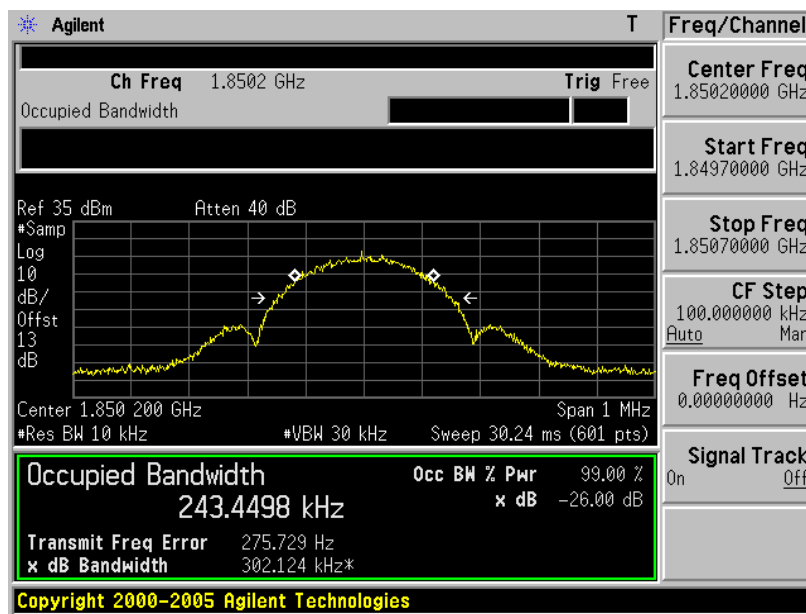


Figure Channel 661

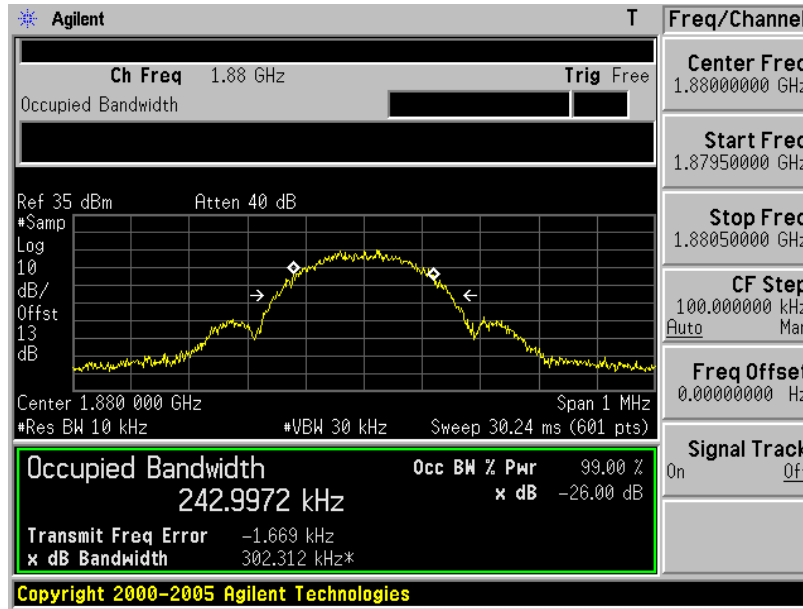
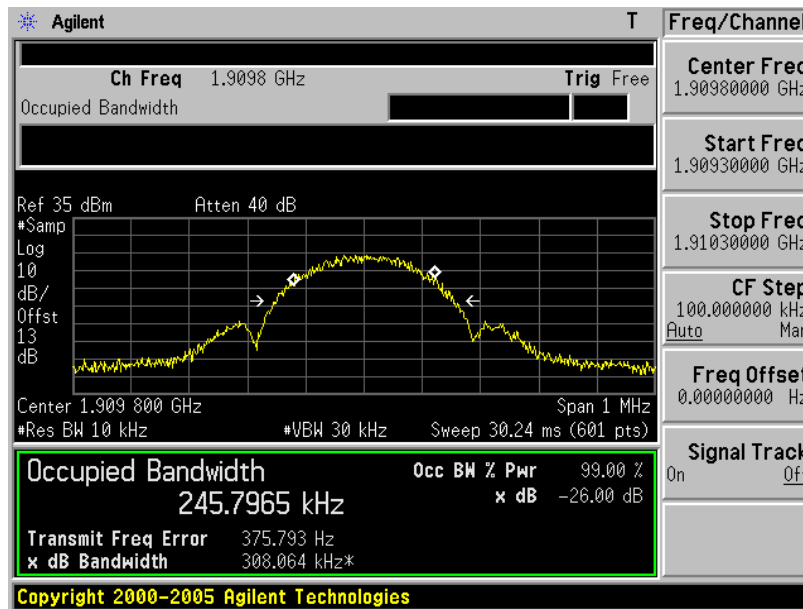


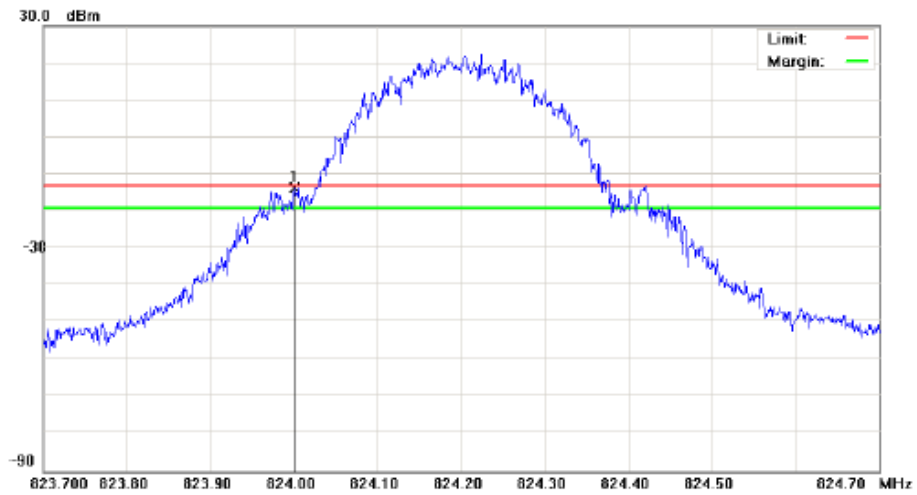
Figure Channel 810



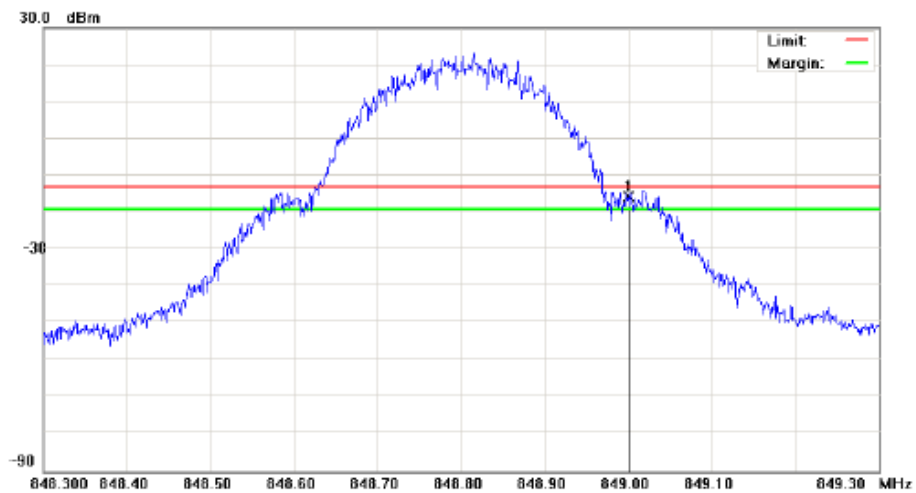
Band Edge

Model Number	PJ03100				
Test Item	Band Edge				
Test Mode	Mode 1: GSM 850 Link				
Date of Test	08/24/2011		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	128	824.0000	-13.62	-13	Pass
Higher	251	849.0000	-15.87	-13	Pass

Lower Band

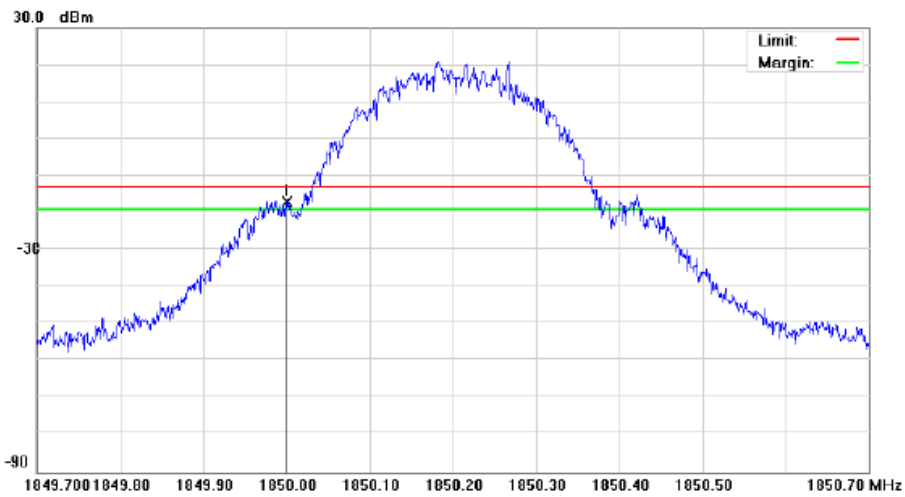


Higher Band

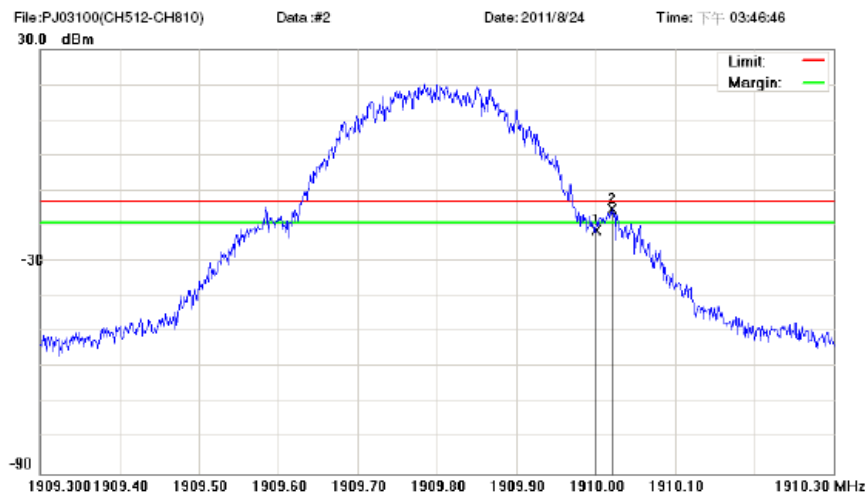


Model Number	PJ03100				
Test Item	Band Edge				
Test Mode	Mode 2: GSM 1900 Link				
Date of Test	08/24/2011		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	512	1850.000	-16.87	-13	Pass
Higher	810	1910.000	-21.30	-13	Pass

Lower Band



Higher Band



5 Conducted Emission Test

5.1. Limit

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.

5.2. Test Instruments

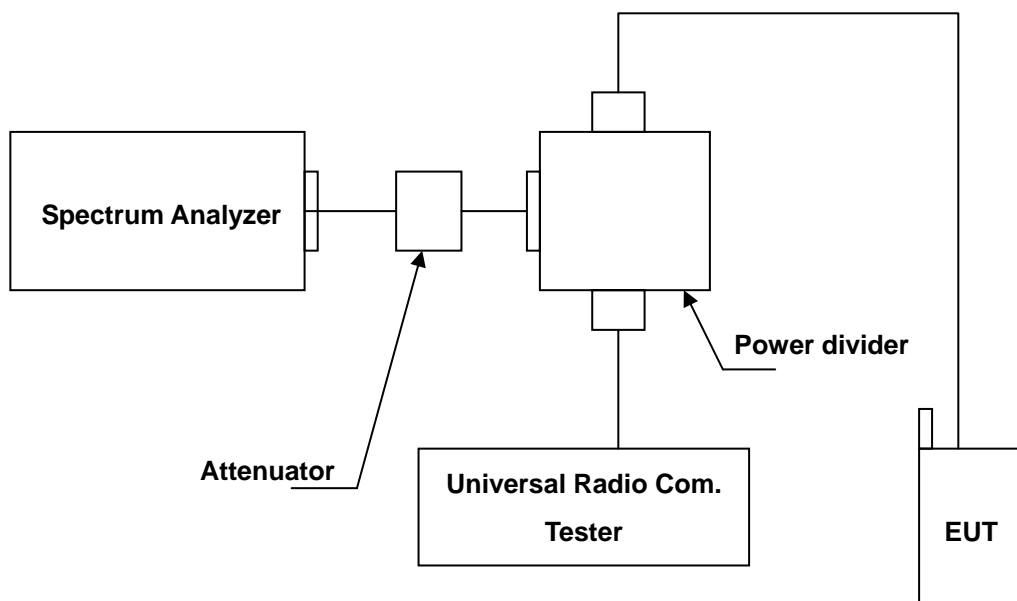
Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/16/2011	(1)
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

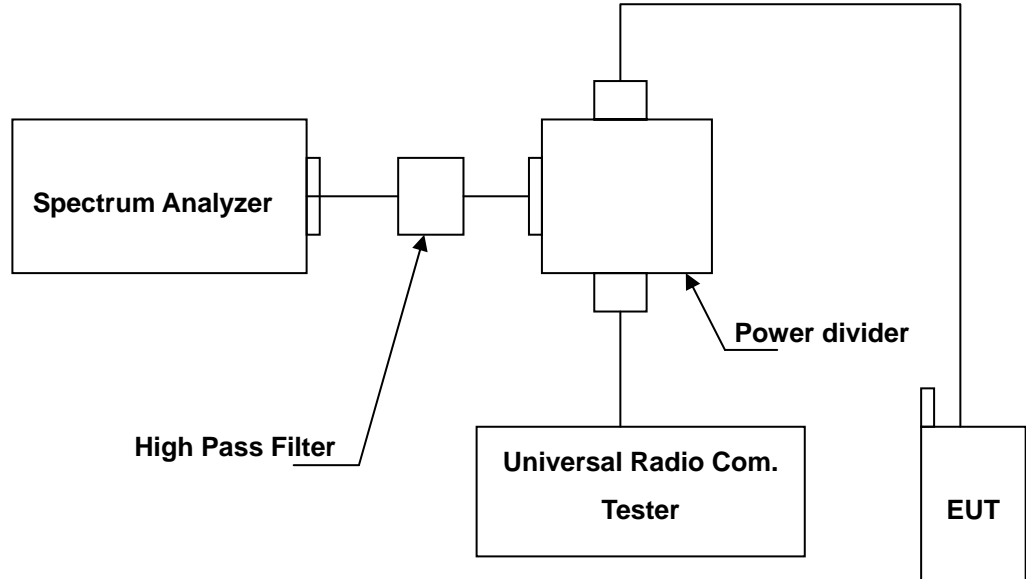
NOTE: N.C.R. = No Calibration Request.

5.3. Setup

Below 2.8GHz



Above 2.8GHz



5.4. Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.
4. Test setting at GSM 850 RB>100 kHz, VB>100 kHz; PCS 1900 RB>1MHz, VB>1MHz.

5.5. Uncertainty

The measurement uncertainty is evaluated as ± 2.24 dB.

5.6. Test Result

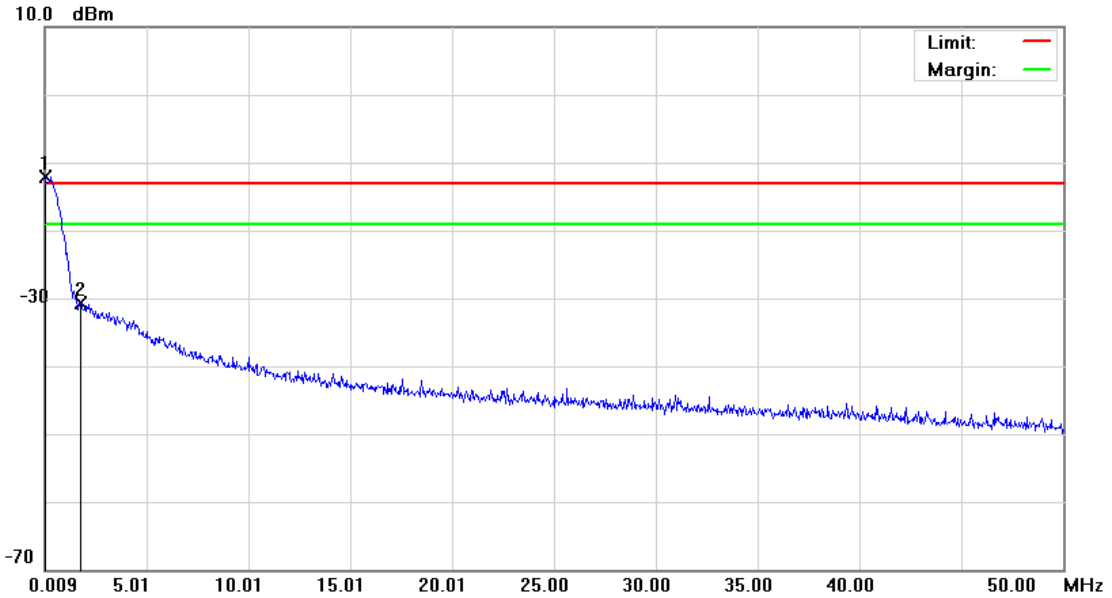
Model Number	PJ03100		
Test Item	Conducted Emission		
Mode	Mode 1: GSM 850 Link Mode 2: GSM 1900 Link		
Date of Test	08/24/2011	Test Site	TE02

File :PJ03100(CH128)

Data :#1

Date: 2011/8/24

Time: 下午 04:04:03



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: GSM 850		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1	*	0.0090	-42.71	30.58	-12.13	-13.00	0.87	peak		
2		1.7337	-61.64	31.02	-30.62	-13.00	-17.62	peak		

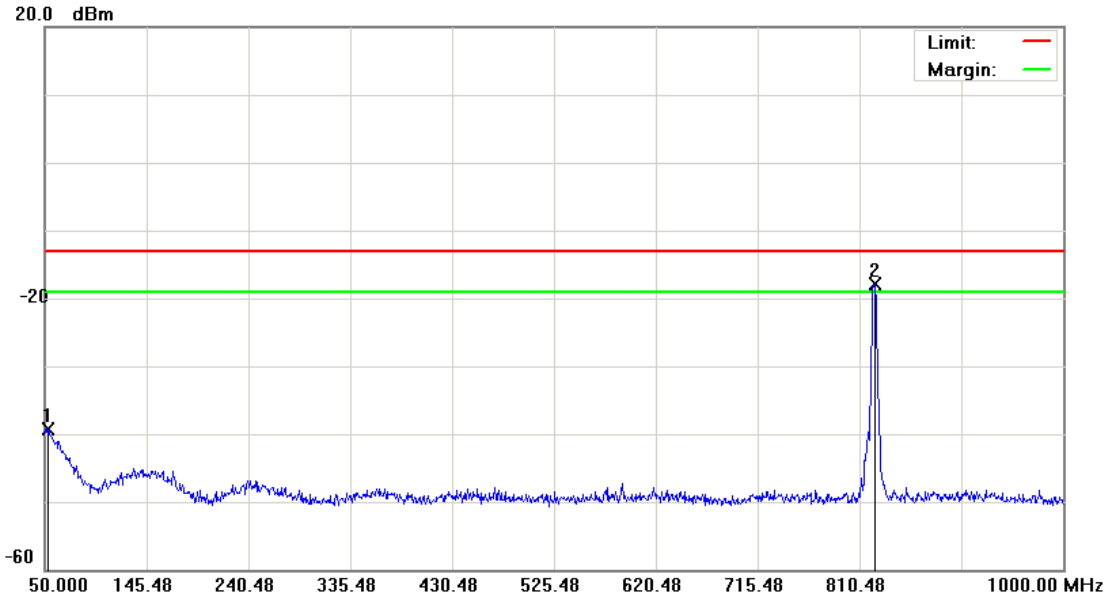
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH128)

Data :#2

Date: 2011/8/24

Time: 下午 04:04:27



Site: : RF Conducted Polarization: *Conducted po* Temperature: 26 °C
 Limit: FCC Part 22 conducted(9k-12.75G) Power: AC 120V/60Hz Humidity: 55 %
 EUT: Smart Phone Distance: RBW: 1000 KHz VBW: 1000 KHz
 M/N: PJ03100
 Mode: GSM 850
 Note:

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1		52.3750	-53.59	14.27	-39.32	-13.00	-26.32	peak		
2	*	824.2500	-21.73	3.84	-17.89	-13.00	-4.89	peak		TX

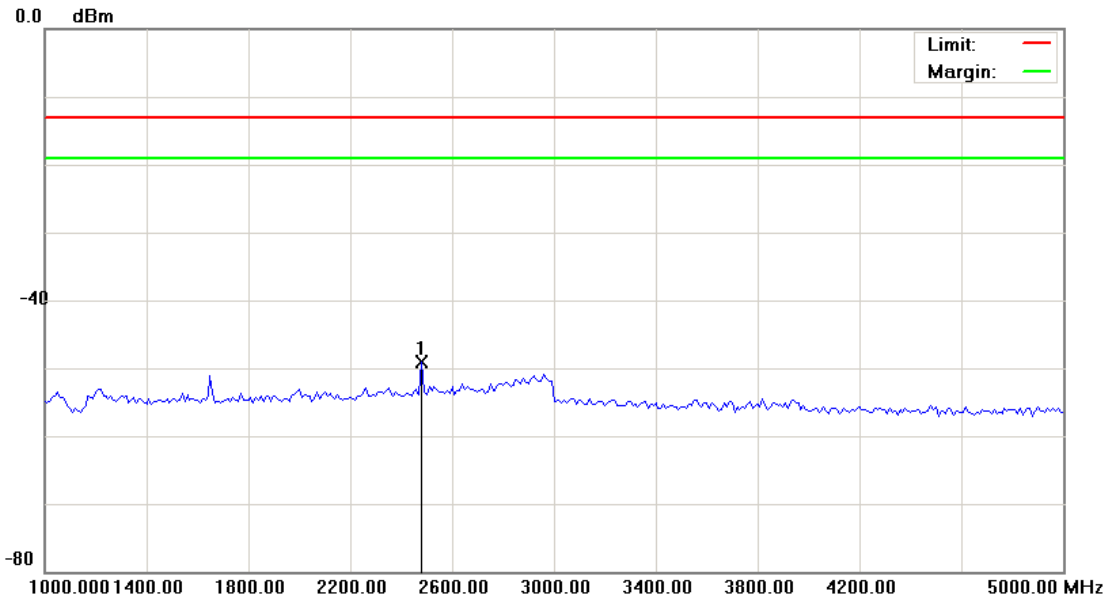
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH128)

Data :#3

Date: 2011/8/24

Time: 下午 04:17:27



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: GSM 850		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1	*	2480.000	-53.60	4.43	-49.17	-13.00	-36.17	peak		

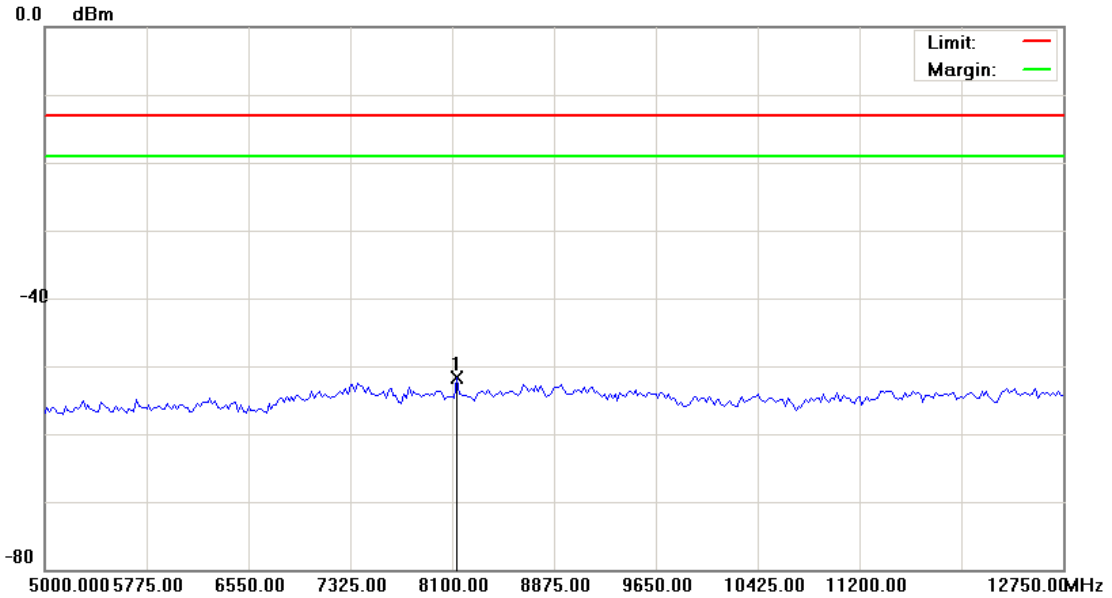
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH128)

Data :#4

Date: 2011/8/24

Time: 下午 04:17:49



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: GSM 850		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1	*	8138.750	-57.40	5.80	-51.60	-13.00	-38.60	peak		

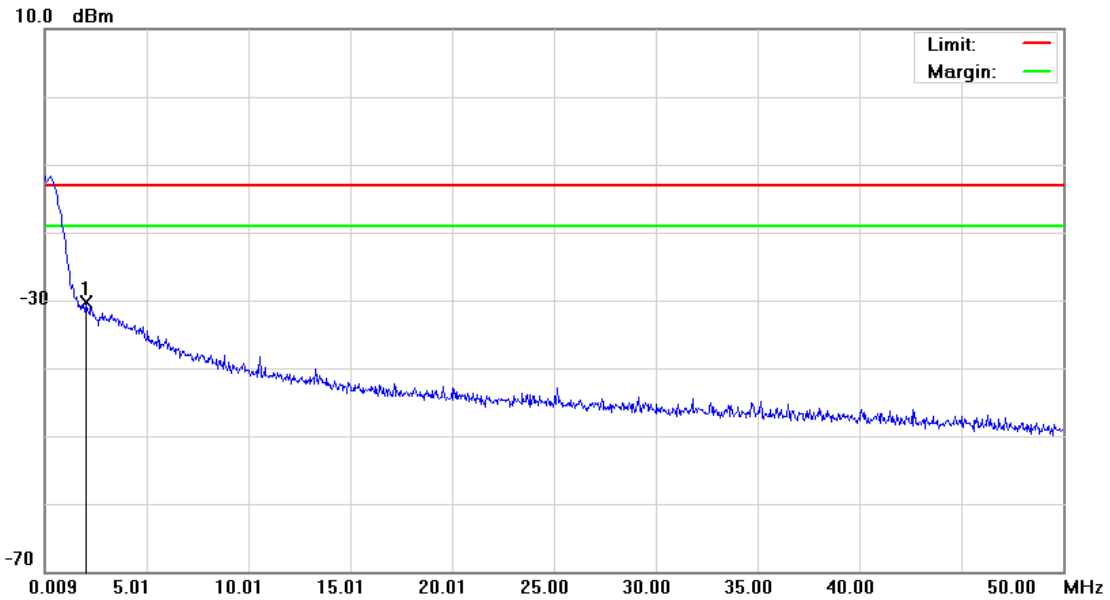
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH190)

Data :#1

Date: 2011/8/24

Time: 下午 04:08:00



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: GSM 850		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1	*	2.0335	-61.65	31.41	-30.24	-13.00	-17.24	peak		

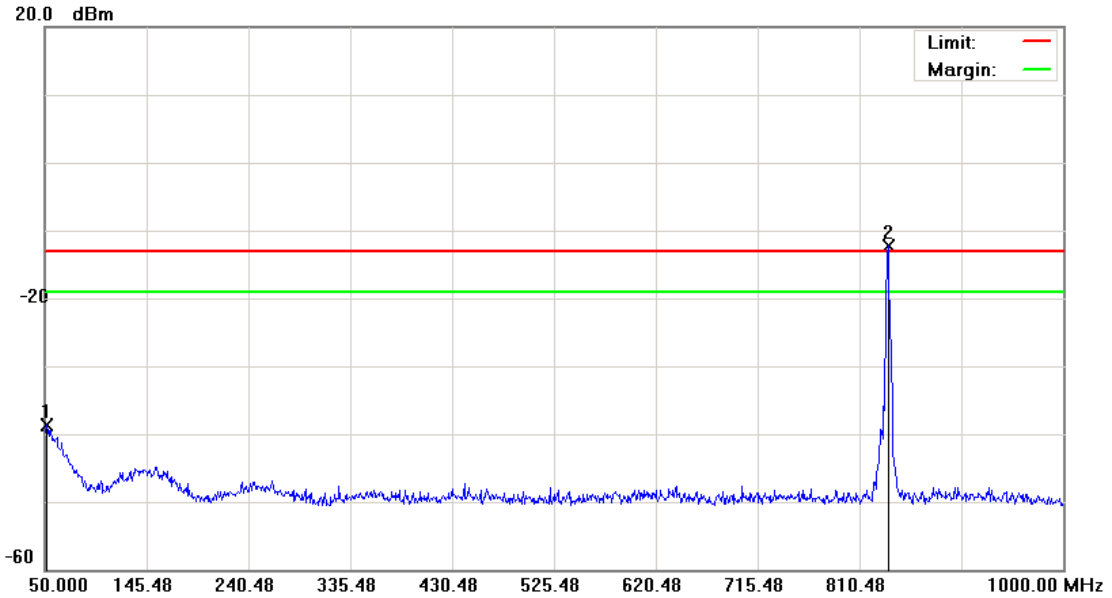
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH190)

Data :#2

Date: 2011/8/24

Time: 下午 04:08:24



Site: : RF Conducted	Polarization: <i>Conducted po</i>	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: GSM 850		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1		51.9000	-53.01	14.36	-38.65	-13.00	-25.65	peak		
2	*	836.6000	-16.21	3.96	-12.25	-13.00	0.75	peak		TX

*:Maximum data x:Over limit !:over margin

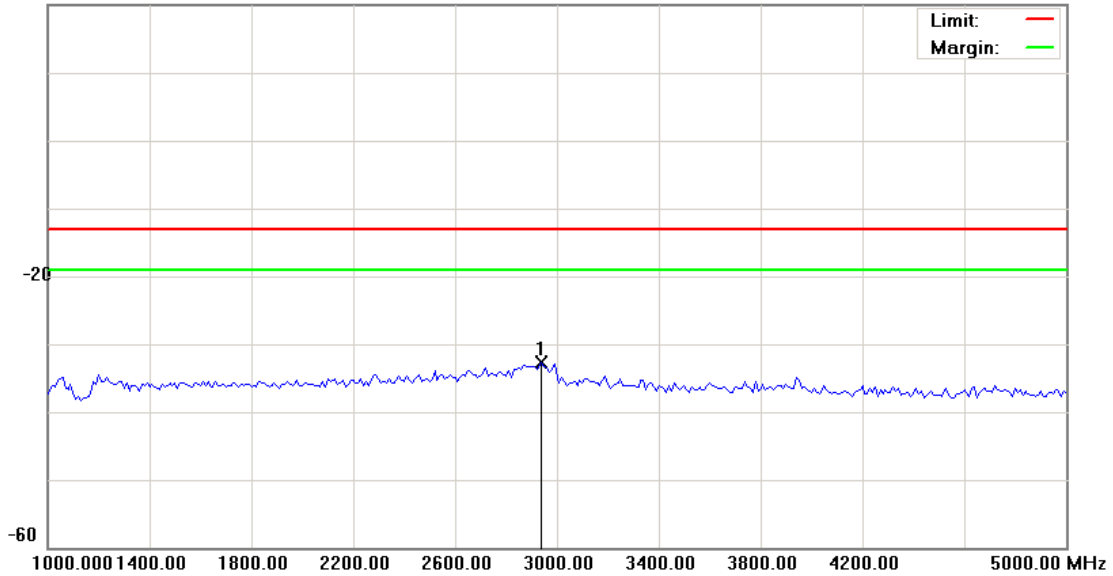
File :PJ03100(CH190)

Data :#3

Date: 2011/8/24

Time: 下午 04:19:39

20.0 dBm



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: GSM 850		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1	*	2940.000	-37.23	4.62	-32.61	-13.00	-19.61	peak		

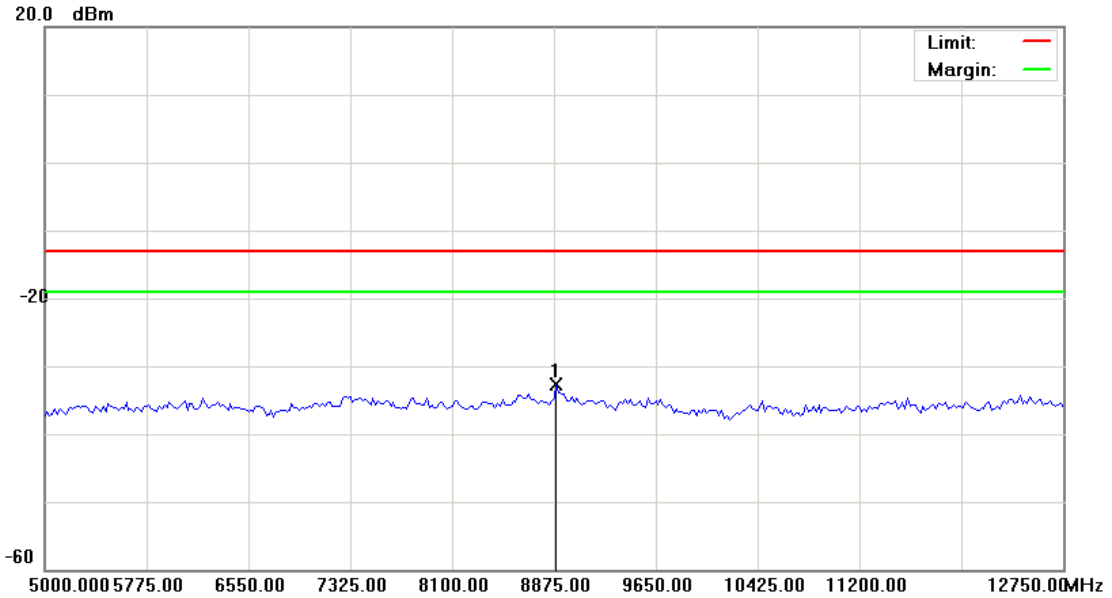
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH190)

Data :#4

Date: 2011/8/24

Time: 下午 04:20:00



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: GSM 850		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree
1	*	8894.375	-38.15	5.40	-32.75	-13.00	-19.75	peak		

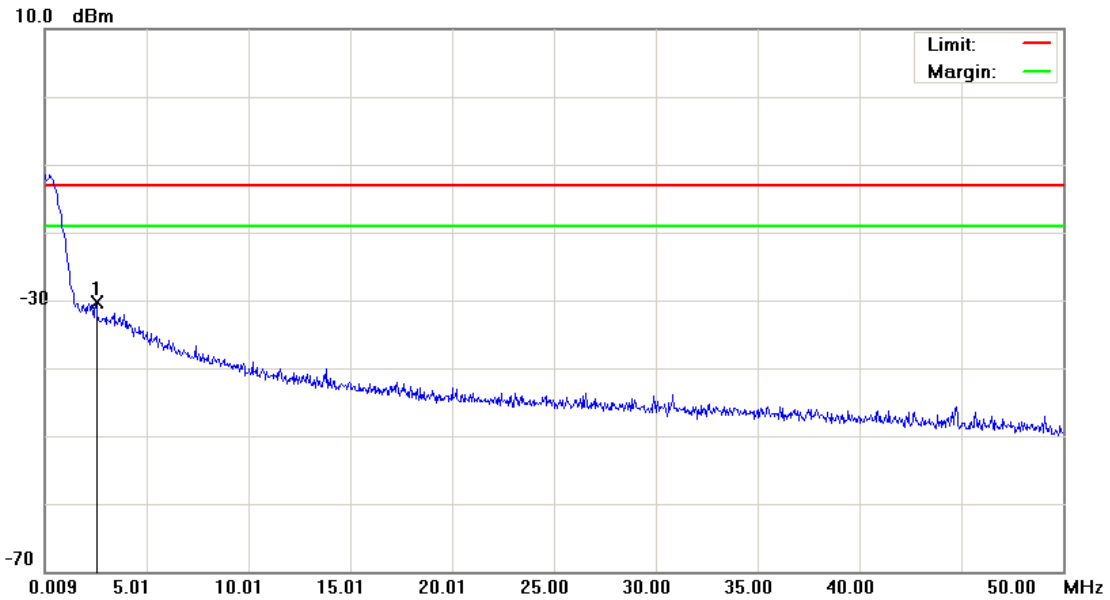
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH251)

Data :#1

Date: 2011/8/24

Time: 下午 04:10:41



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: GSM 850		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree
1	*	2.5335	-60.92	30.65	-30.27	-13.00	-17.27	peak		

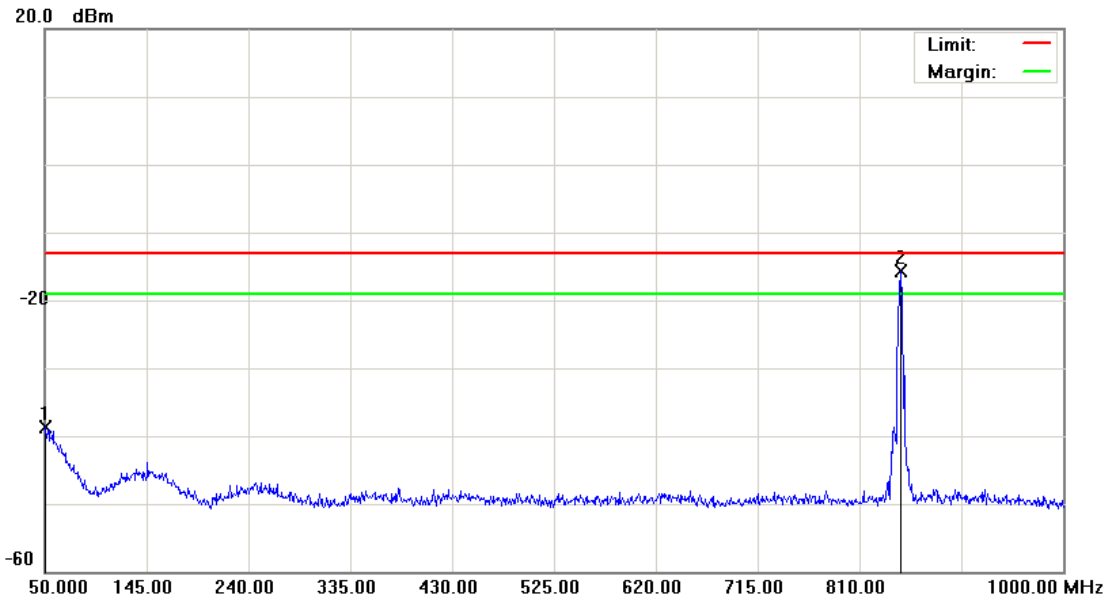
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH251)

Data :#2

Date: 2011/8/24

Time: 下午 04:11:05



Site: : RF Conducted	Polarization: <i>Conducted po</i>	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: GSM 850		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1		50.9500	-53.14	14.52	-38.62	-13.00	-25.62	peak		
2	*	848.9500	-19.74	3.98	-15.76	-13.00	-2.76	peak		TX

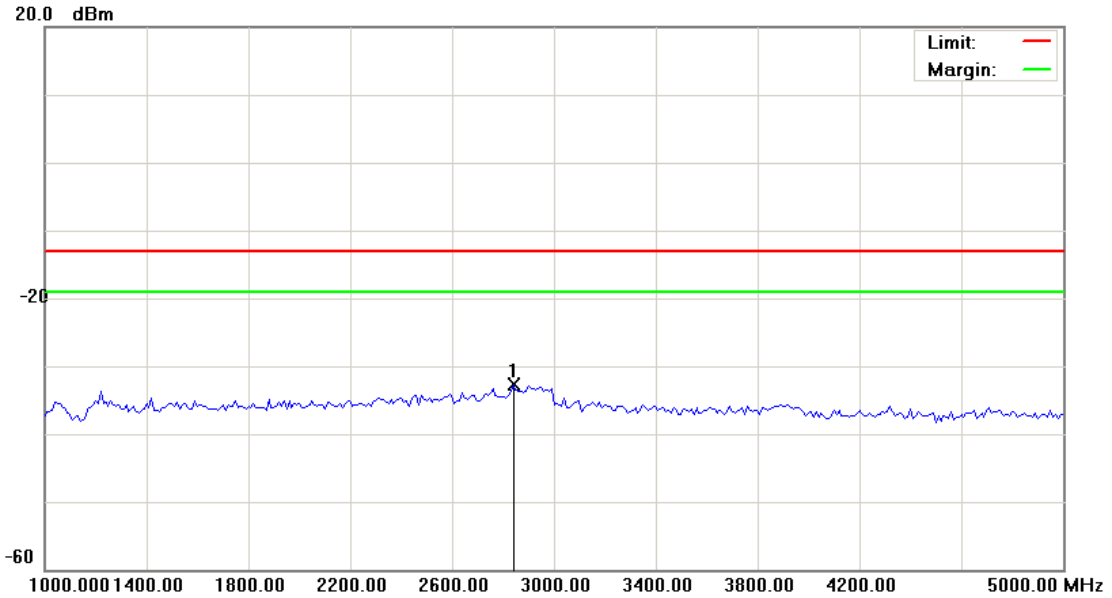
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH251)

Data :#3

Date: 2011/8/24

Time: 下午 04:21:50



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: GSM 850		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1	*	2840.000	-37.12	4.50	-32.62	-13.00	-19.62	peak		

*:Maximum data x:Over limit !:over margin

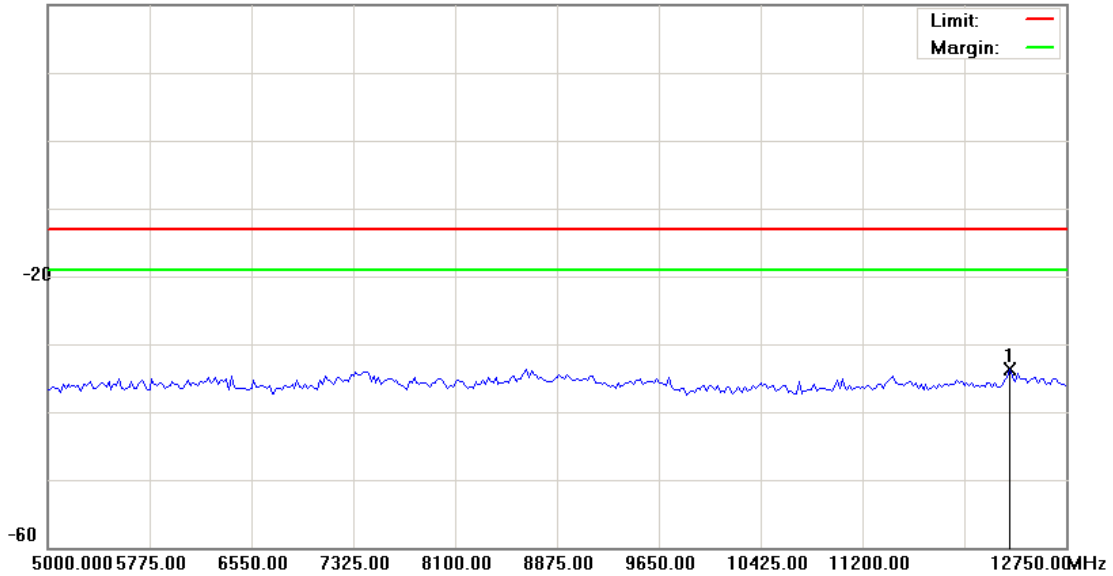
File :PJ03100(CH251)

Data :#4

Date: 2011/8/24

Time: 下午 04:22:12

20.0 dBm



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: GSM 850		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1	*	12323.750	-38.37	4.64	-33.73	-13.00	-20.73	peak		

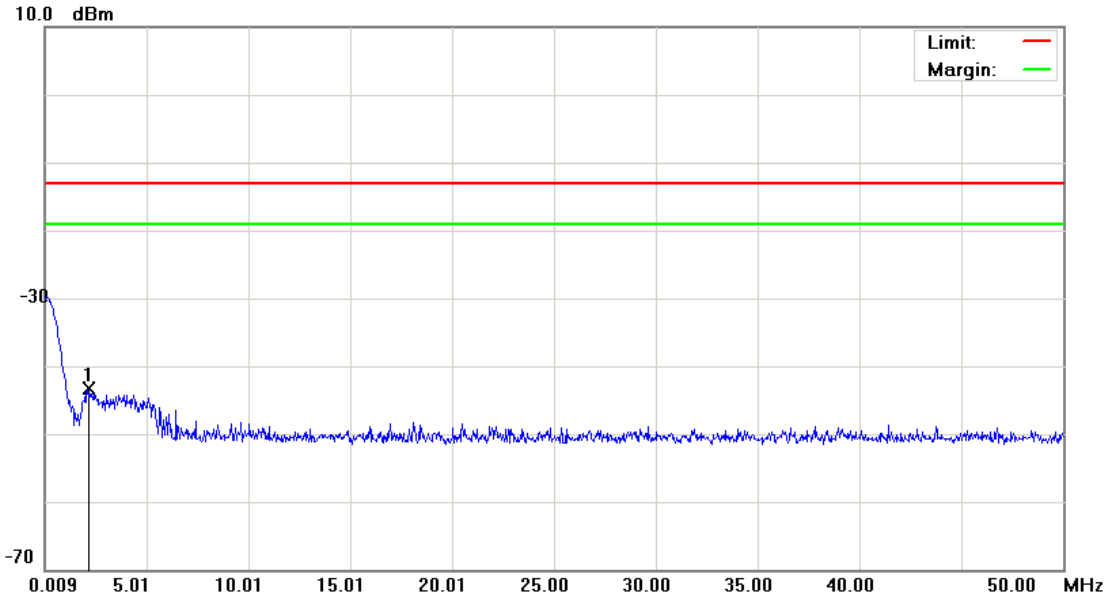
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH512)

Data :#1

Date: 2011/8/24

Time: 下午 03:49:40



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1	*	2.1335	-56.49	13.14	-43.35	-13.00	-30.35	peak		

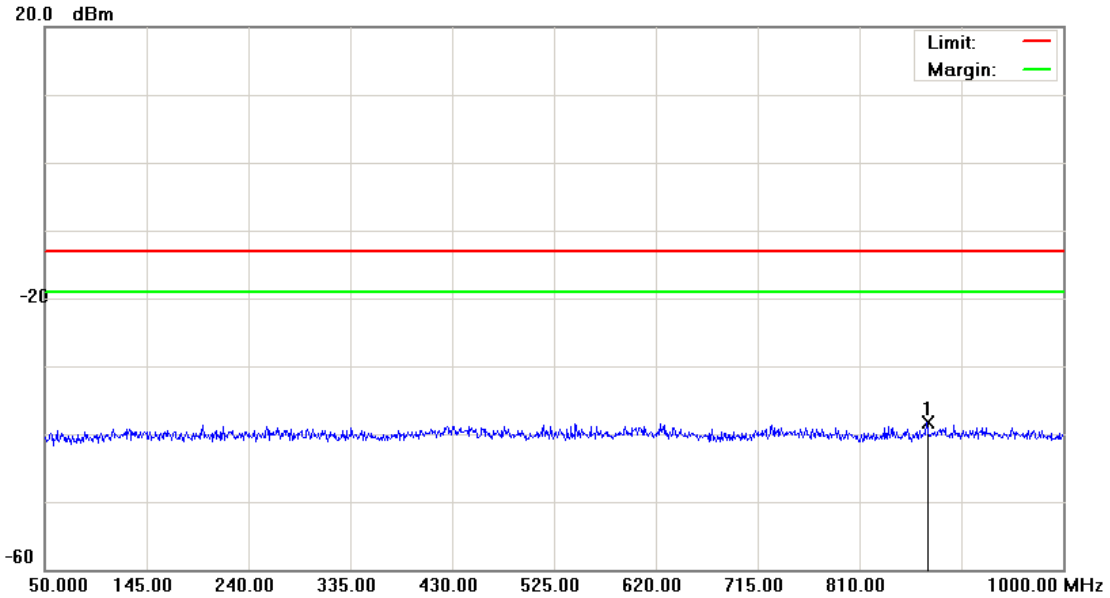
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH512)

Data :#2

Date: 2011/8/24

Time: 下午 03:50:04



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree
1	*	873.1750	-51.51	13.27	-38.24	-13.00	-25.24	peak		

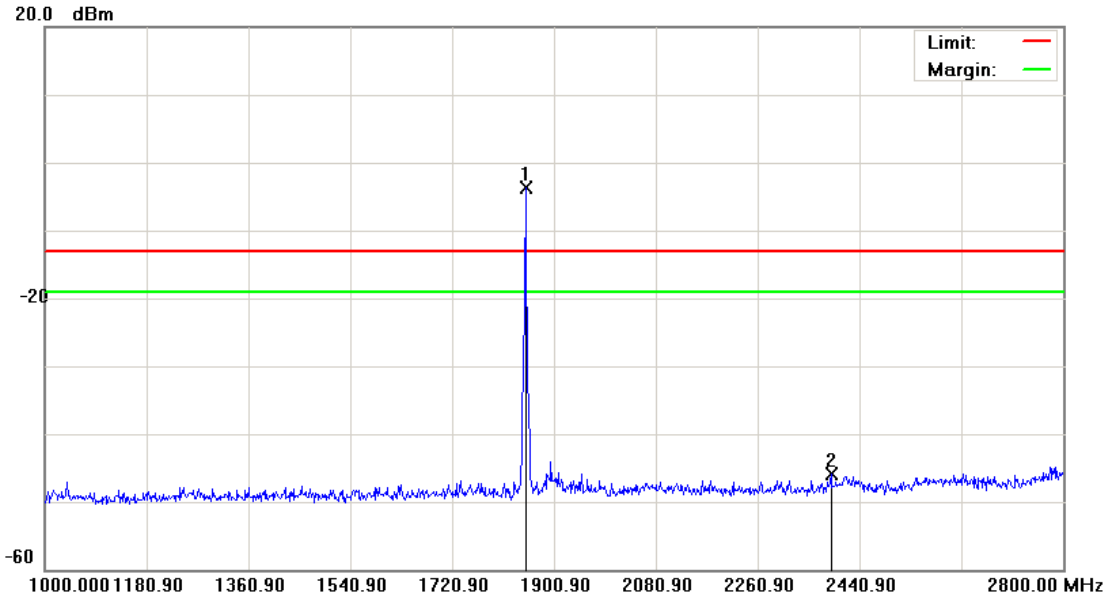
*:Maximum data x:Over limit !:over margin

File: PJ03100(CH512)

Data: #3

Date: 2011/8/24

Time: 下午 04:01:21



Site: RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1	*	1850.500	-7.98	4.26	-3.72	-13.00	9.28	peak		TX
2		2390.500	-51.02	5.05	-45.97	-13.00	-32.97	peak		

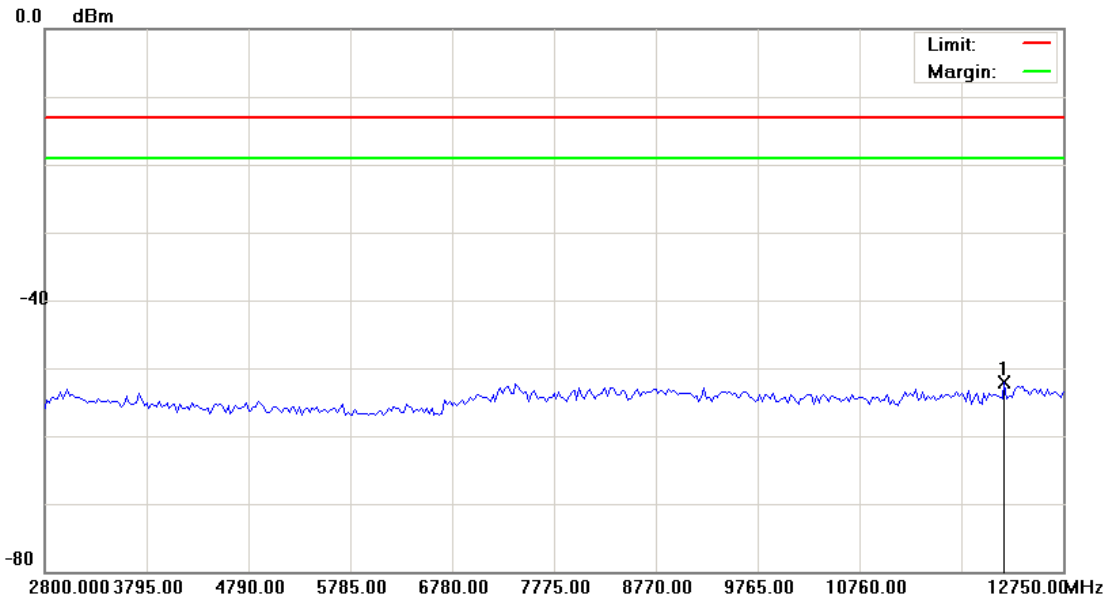
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH512)

Data :#4

Date: 2011/8/24

Time: 下午 04:24:43



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1	*	12177.875	-57.32	5.26	-52.06	-13.00	-39.06	peak		

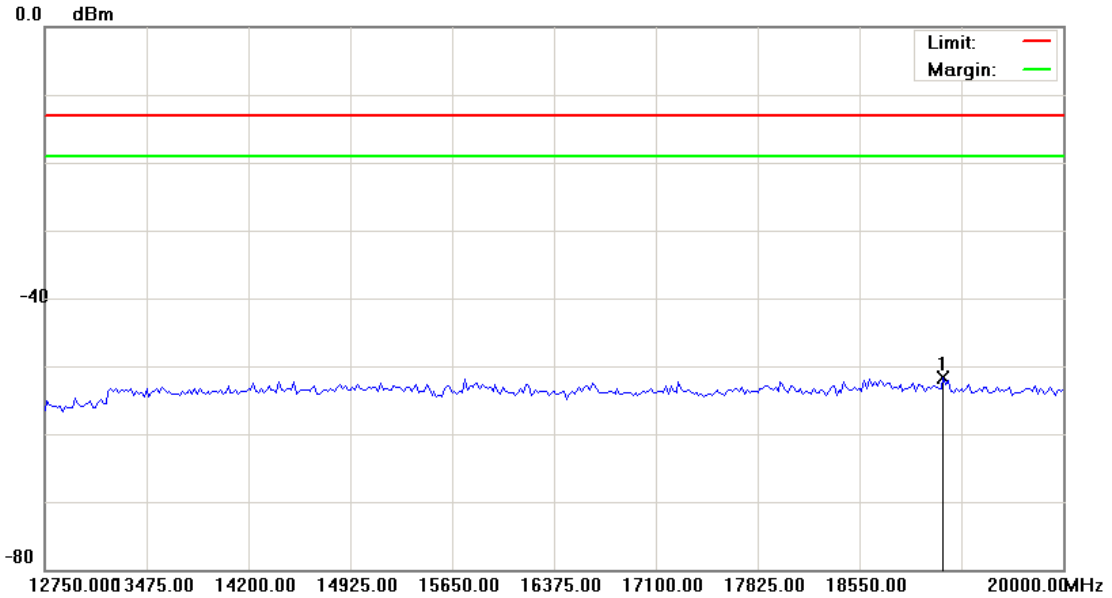
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH512)

Data :#5

Date: 2011/8/24

Time: 下午 04:25:05



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree
1	*	19148.125	-58.82	7.20	-51.62	-13.00	-38.62	peak		

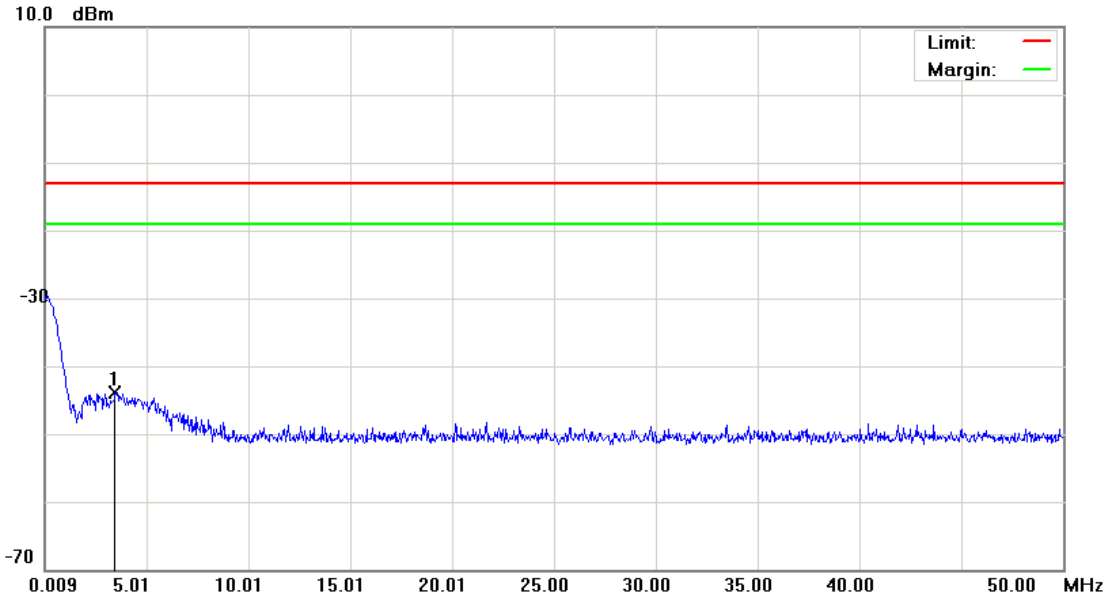
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH661)

Data :#1

Date: 2011/8/24

Time: 下午 03:53:21



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1	*	3.4584	-57.08	13.13	-43.95	-13.00	-30.95	peak		

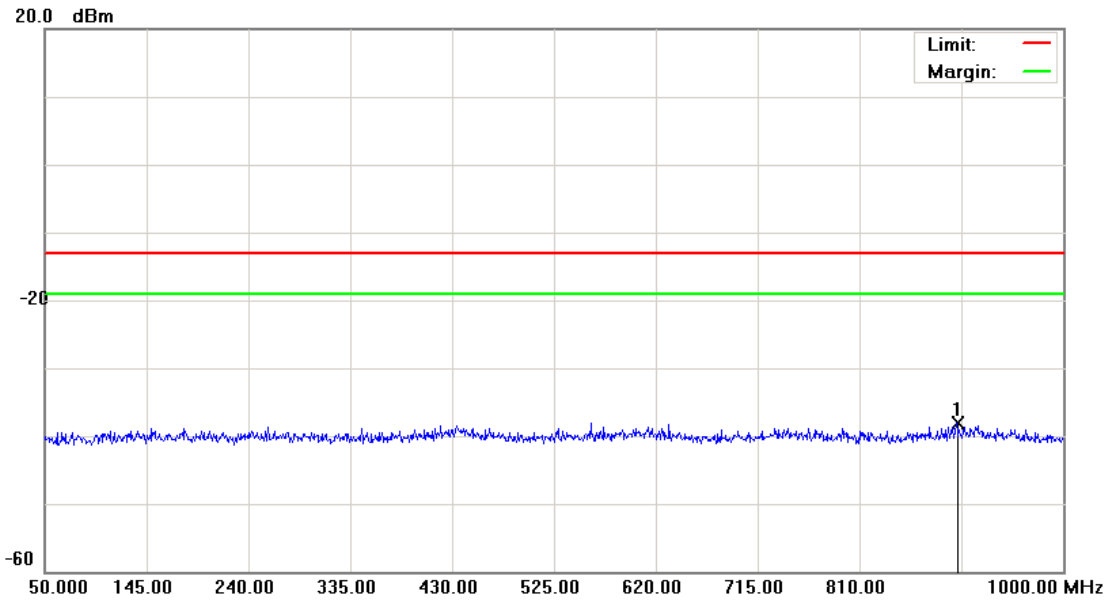
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH661)

Data :#2

Date: 2011/8/24

Time: 下午 03:53:45



Site: : RF Conducted	Polarization: <i>Conducted po</i>	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree
1	*	900.7250	-51.30	13.26	-38.04	-13.00	-25.04	peak		

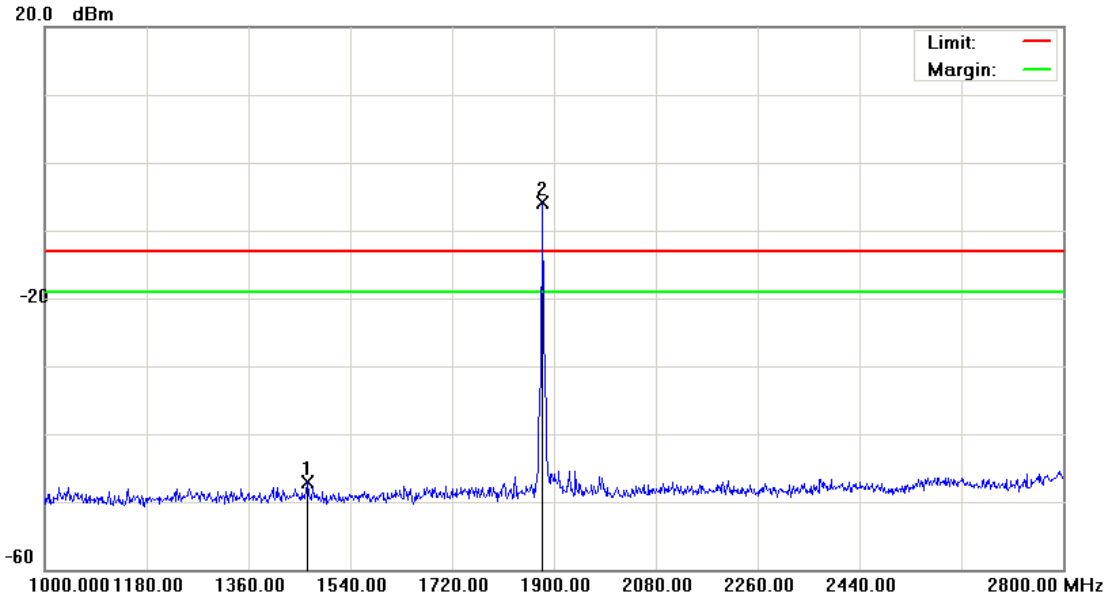
*:Maximum data x:Over limit !:over margin

File: PJ03100(CH661)

Data: #3

Date: 2011/8/24

Time: 下午 04:00:09



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1		1464.400	-51.66	4.59	-47.07	-13.00	-34.07	peak		
2	*	1880.200	-10.46	4.65	-5.81	-13.00	7.19	peak		TX

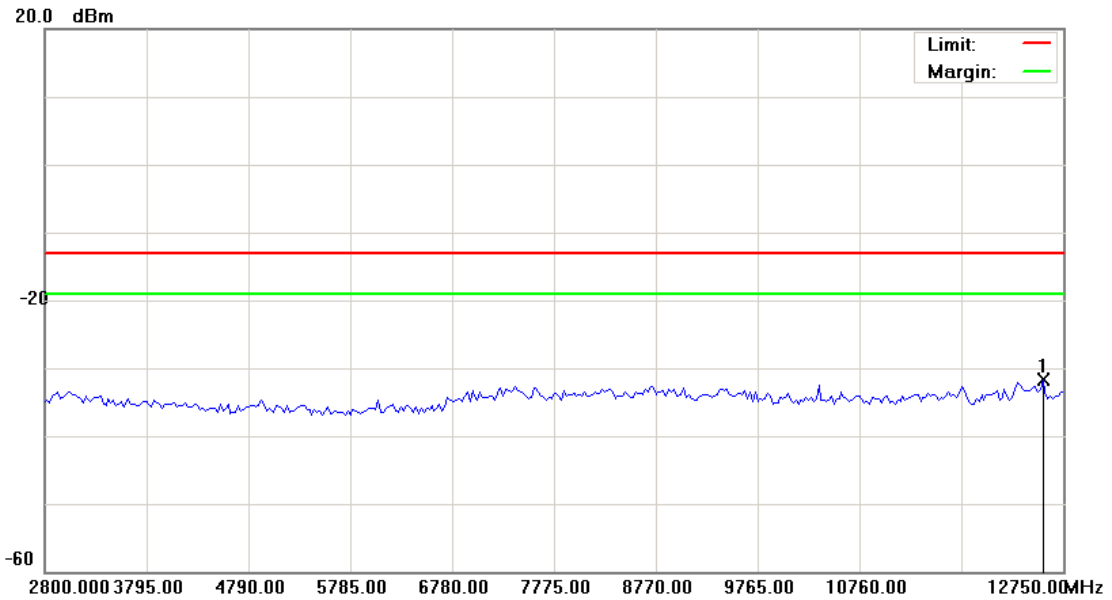
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH661)

Data :#4

Date: 2011/8/24

Time: 下午 04:25:56



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree
1	*	12551.000	-36.66	5.05	-31.61	-13.00	-18.61	peak		

*:Maximum data x:Over limit !:over margin

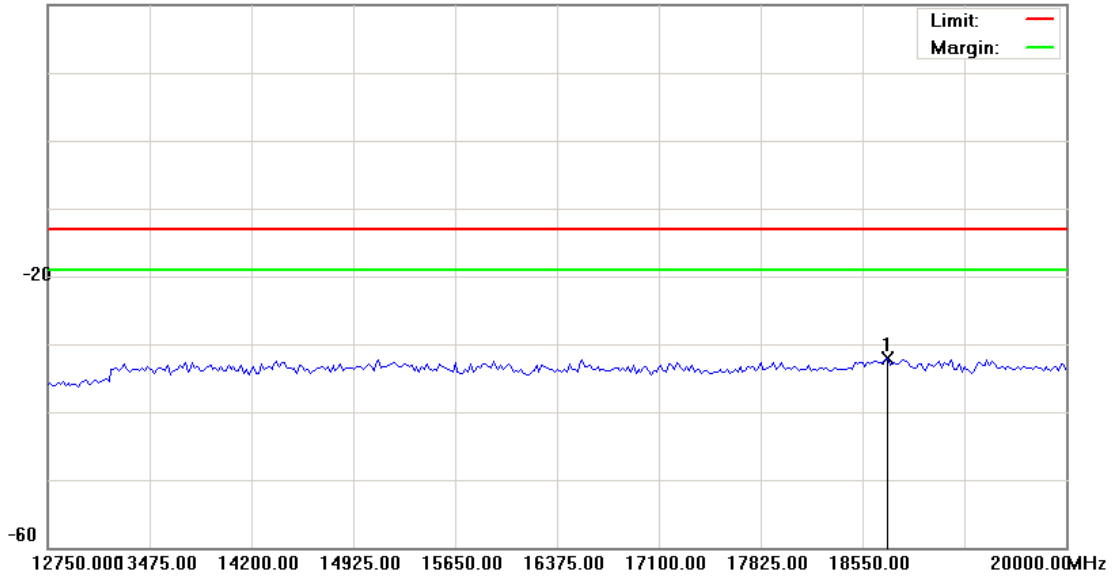
File :PJ03100(CH661)

Data :#5

Date: 2011/8/24

Time: 下午 04:26:18

20.0 dBm



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree
1	*	18731.250	-39.25	7.08	-32.17	-13.00	-19.17	peak		

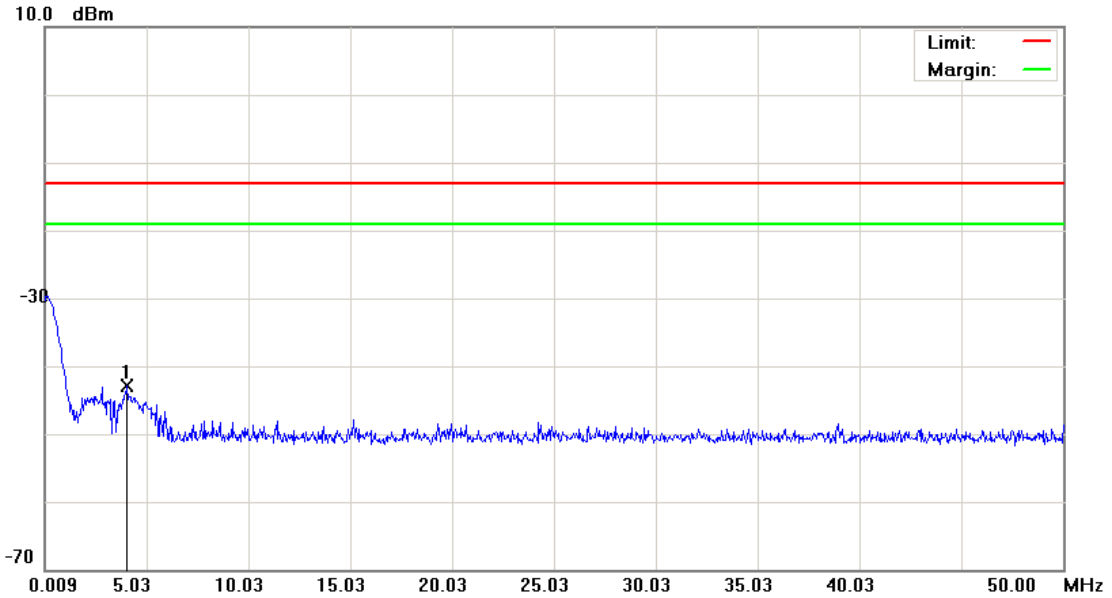
*:Maximum data x:Over limit !:over margin

File :PJ03100(CH810)

Data :#1

Date: 2011/8/24

Time: 下午 03:55:00



Site: : RF Conducted	Polarization: <i>Conducted po</i>	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1	*	4.0583	-56.06	13.21	-42.85	-13.00	-29.85	peak		

*:Maximum data x:Over limit !:over margin

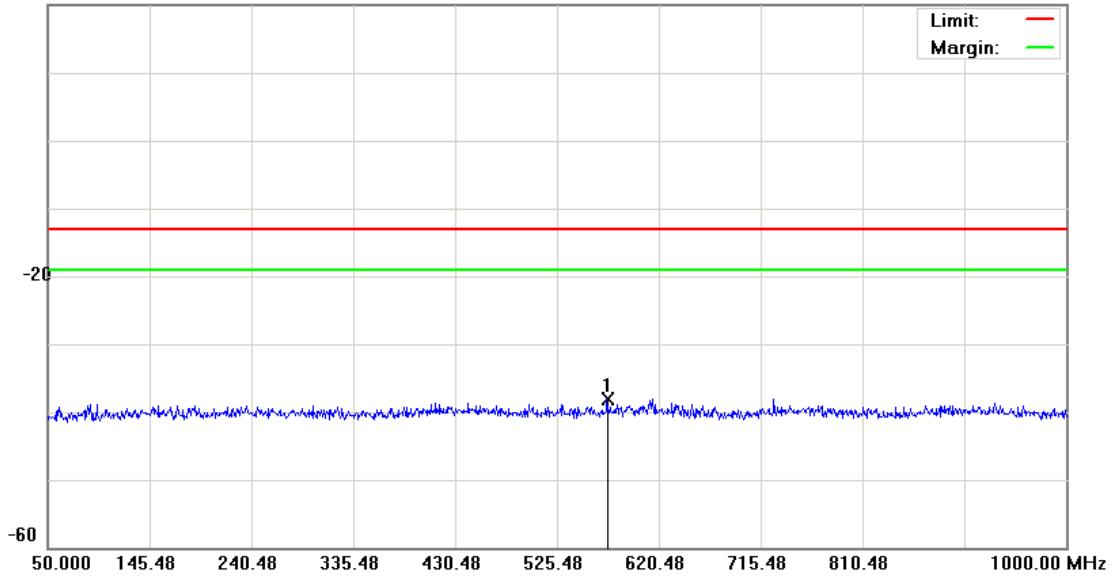
File :PJ03100(CH810)

Data :#2

Date: 2011/8/24

Time: 下午 03:55:24

20.0 dBm



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree
1	*	572.0250	-51.19	13.16	-38.03	-13.00	-25.03	peak		

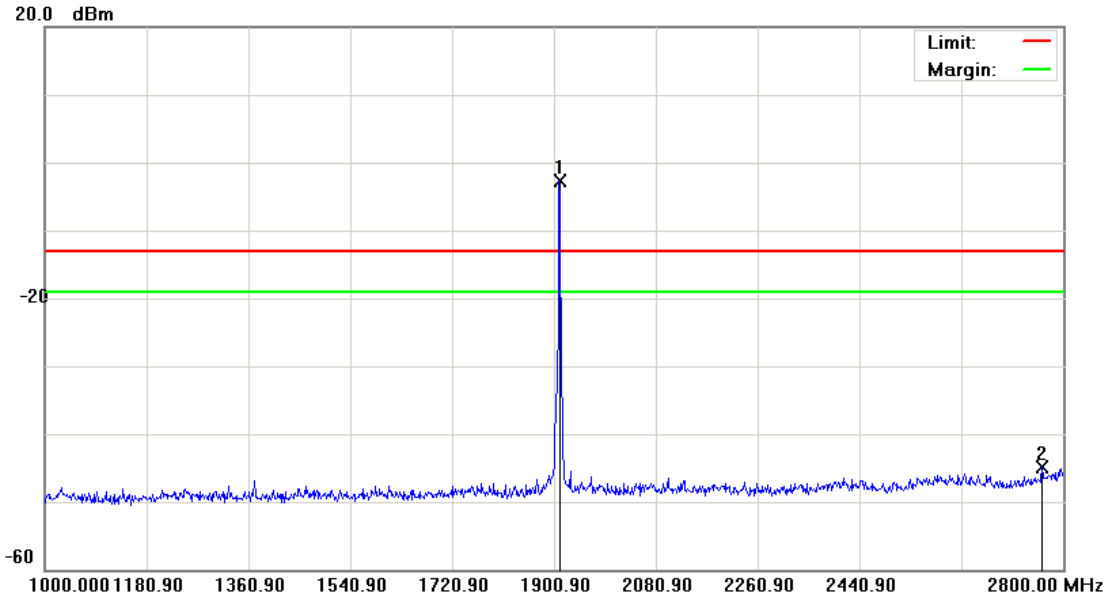
*:Maximum data x:Over limit !:over margin

File: PJ03100(CH810)

Data: #3

Date: 2011/8/24

Time: 下午 03:57:46



Site: RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1	*	1909.900	-8.48	5.71	-2.77	-13.00	10.23	peak		TX
2		2762.200	-50.43	5.63	-44.80	-13.00	-31.80	peak		

*:Maximum data x:Over limit !:over margin

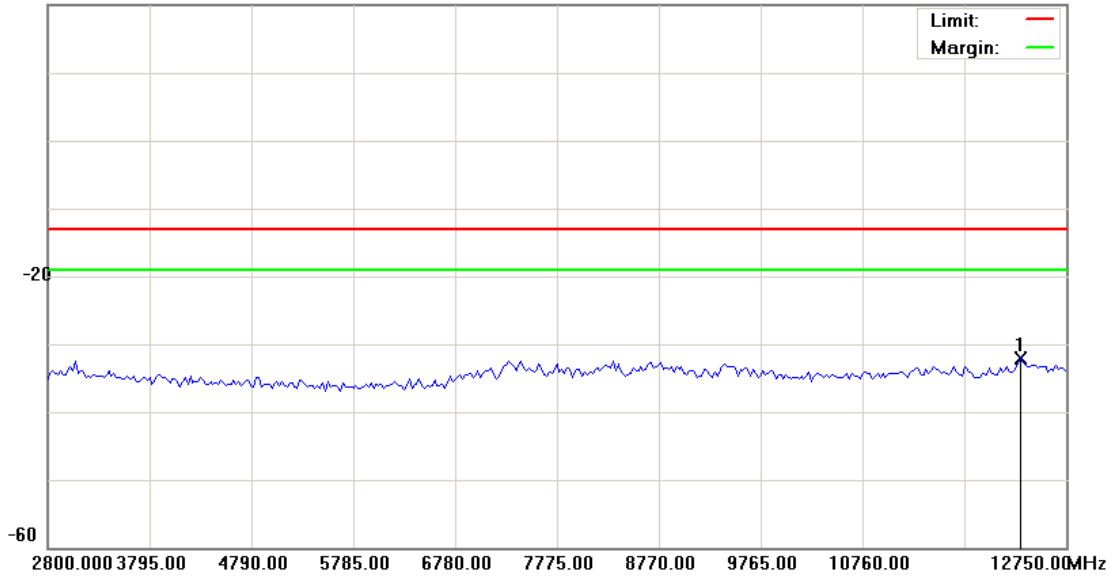
File :PJ03100(CH810)

Data :#4

Date: 2011/8/24

Time: 下午 04:27:12

20.0 dBm



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree	Comment
1	*	12302.250	-37.19	5.19	-32.00	-13.00	-19.00	peak		

*:Maximum data x:Over limit !:over margin

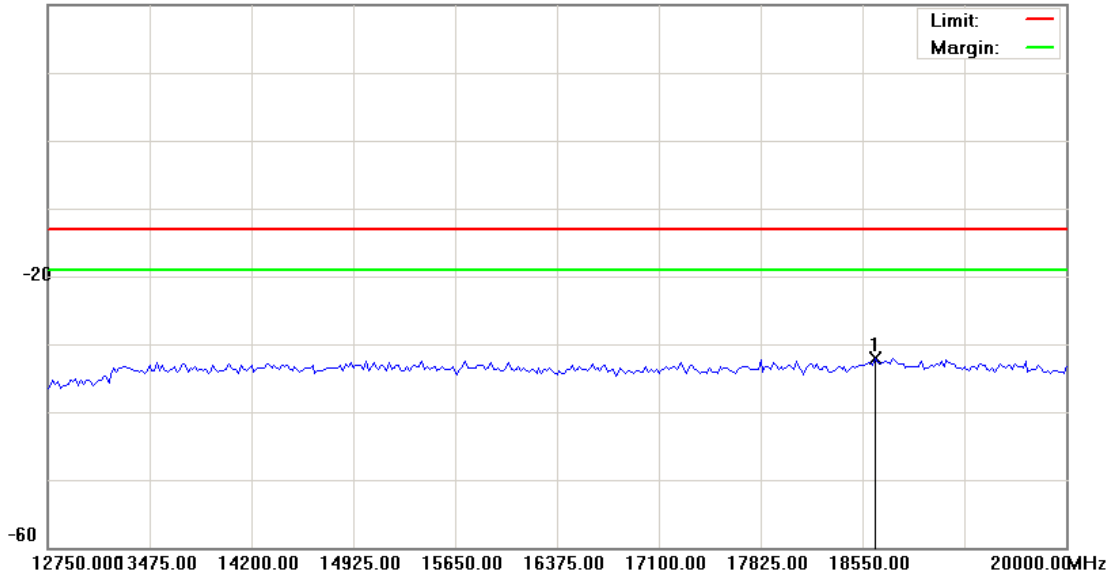
File :PJ03100(CH810)

Data :#5

Date: 2011/8/24

Time: 下午 04:27:34

20.0 dBm



Site : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smart Phone	Distance:	RBW: 1000 KHz VBW: 1000 KHz
M/N: PJ03100		
Mode: PCS 1800		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree
1	*	18640.625	-39.21	7.05	-32.16	-13.00	-19.16	peak		

*:Maximum data x:Over limit !:over margin

6 Field Strength of Spurious Radiation Test

6.1. Limit

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.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

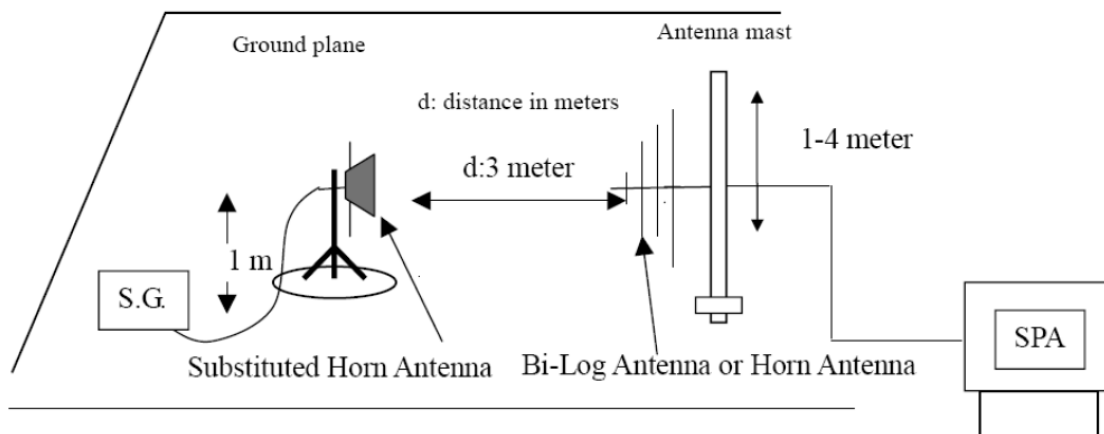
6.2. Test Instruments

3 Meter Chamber (966-A)					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/18/2011	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/18/2011	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/23/2011	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/23/2011	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	07/29/2011	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/29/2011	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/28/2011	(1)
Test Site	ATL	TE01	888001	12/24/2010	(1)

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

6.3. Setup



6.4. Test Procedure

The measurement is made according to ANSI/TIA-603-C-2004 as follows:

The equipment under test is placed inside the semi-anechoic chamber on a wooden table at the turntable center. For each spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum reading on the spectrum analyzer. This is repeated for both horizontal and vertical polarizations of the receive antenna.

The equipment under test is then replaced with a substitution antenna fed by a signal generator. With the signal generator tuned to a particular spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters to obtain a maximum reading at the spectrum analyzer. The output of the signal generator is then adjusted until a reading identical to that obtained with the actual transmitter is achieved.

The power in dBm of each spurious emission is calculated by correcting the signal generator level for cable loss and gain of the substitution antenna referenced to a dipole. A fully charged battery was used for the supply voltage.

The settings of the receiver were as follows:

Units	dBm
Resolution Bandwidth	1 MHz
Video Bandwidth	Auto
Sweep Time	Auto

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in **lie-down position (X axis)** and the worst case was recorded.

6.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is ± 3.072 dB.

6.6. Test Result

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ03100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	2011/08/24
Frequency:	824.2 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	38.5000	-77.43	9.20	-68.23	-13.00	-55.23	peak	H
2	92.5000	-72.80	-0.43	-73.23	-13.00	-60.23	peak	H
3	160.5000	-82.02	1.05	-80.97	-13.00	-67.97	peak	H
4	200.5000	-82.46	2.83	-79.63	-13.00	-66.63	peak	H
5	566.0000	-80.05	7.75	-72.30	-13.00	-59.30	peak	H
6	725.5000	-79.30	7.68	-71.62	-13.00	-58.62	peak	H
7	4168.000	-69.42	16.61	-52.81	-13.00	-39.81	peak	H
8	7468.000	-71.80	29.01	-42.79	-13.00	-29.79	peak	H
1	92.5000	-67.67	-4.73	-72.40	-13.00	-59.40	peak	V
2	129.0000	-81.12	13.37	-67.75	-13.00	-54.75	peak	V
3	161.0000	-80.32	11.75	-68.57	-13.00	-55.57	peak	V
4	201.0000	-82.16	10.04	-72.12	-13.00	-59.12	peak	V
5	401.0000	-80.36	1.33	-79.03	-13.00	-66.03	peak	V
6	632.0000	-80.61	8.72	-71.89	-13.00	-58.89	peak	V
7	2212.000	-66.12	10.57	-55.55	-13.00	-42.55	peak	V
8	6616.000	-70.33	24.92	-45.41	-13.00	-32.41	peak	V
9	9544.000	-70.87	28.61	-42.26	-13.00	-29.26	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ03100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	2011/08/24
Frequency:	836.6 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	38.5000	-77.43	9.20	-68.23	-13.00	-55.23	peak	H
2	92.5000	-72.80	-0.43	-73.23	-13.00	-60.23	peak	H
3	160.5000	-82.02	1.05	-80.97	-13.00	-67.97	peak	H
4	200.5000	-82.46	2.83	-79.63	-13.00	-66.63	peak	H
5	566.0000	-80.05	7.75	-72.30	-13.00	-59.30	peak	H
6	725.5000	-79.30	7.68	-71.62	-13.00	-58.62	peak	H
7	7348.000	-70.96	28.67	-42.29	-13.00	-29.29	peak	H
8	10900.000	-73.67	36.01	-37.66	-13.00	-24.66	peak	H
9	12220.000	-73.38	36.82	-36.56	-13.00	-23.56	peak	H
1	92.5000	-67.67	-4.73	-72.40	-13.00	-59.40	peak	V
2	129.0000	-81.12	13.37	-67.75	-13.00	-54.75	peak	V
3	161.0000	-80.32	11.75	-68.57	-13.00	-55.57	peak	V
4	201.0000	-82.16	10.04	-72.12	-13.00	-59.12	peak	V
5	401.0000	-80.36	1.33	-79.03	-13.00	-66.03	peak	V
6	632.0000	-80.61	8.72	-71.89	-13.00	-58.89	peak	V
7	3304.000	-67.54	18.10	-49.44	-13.00	-36.44	peak	V
8	5620.000	-71.95	23.28	-48.67	-13.00	-35.67	peak	V
9	7072.000	-71.22	25.71	-45.51	-13.00	-32.51	peak	V
10	92.5000	-67.67	-4.73	-72.40	-13.00	-59.40	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ03100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	2011/08/24
Frequency:	848.8 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	38.5000	-77.43	9.20	-68.23	-13.00	-55.23	peak	H
2	92.5000	-72.80	-0.43	-73.23	-13.00	-60.23	peak	H
3	160.5000	-82.02	1.05	-80.97	-13.00	-67.97	peak	H
4	200.5000	-82.46	2.83	-79.63	-13.00	-66.63	peak	H
5	566.0000	-80.05	7.75	-72.30	-13.00	-59.30	peak	H
6	725.5000	-79.30	7.68	-71.62	-13.00	-58.62	peak	H
7	2260.000	-67.62	11.26	-56.36	-13.00	-43.36	peak	H
8	4168.000	-69.42	16.61	-52.81	-13.00	-39.81	peak	H
9	5476.000	-71.16	21.60	-49.56	-13.00	-36.56	peak	H
1	92.5000	-67.67	-4.73	-72.40	-13.00	-59.40	peak	V
2	129.0000	-81.12	13.37	-67.75	-13.00	-54.75	peak	V
3	161.0000	-80.32	11.75	-68.57	-13.00	-55.57	peak	V
4	201.0000	-82.16	10.04	-72.12	-13.00	-59.12	peak	V
5	401.0000	-80.36	1.33	-79.03	-13.00	-66.03	peak	V
6	632.0000	-80.61	8.72	-71.89	-13.00	-58.89	peak	V
7	1216.000	-61.82	3.79	-58.03	-13.00	-45.03	peak	V
8	4876.000	-70.51	22.95	-47.56	-13.00	-34.56	peak	V
9	6616.000	-70.33	24.92	-45.41	-13.00	-32.41	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ03100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2	Date:	2011/08/24
Frequency:	1850.2 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	35.5000	-77.09	8.29	-68.80	-13.00	-55.80	peak	H
2	92.5000	-72.88	-0.43	-73.31	-13.00	-60.31	peak	H
3	199.5000	-81.28	2.50	-78.78	-13.00	-65.78	peak	H
4	541.0000	-79.72	8.23	-71.49	-13.00	-58.49	peak	H
5	707.0000	-79.76	7.14	-72.62	-13.00	-59.62	peak	H
6	945.0000	-81.76	14.86	-66.90	-13.00	-53.90	peak	H
7	3076.000	-69.15	13.96	-55.19	-13.00	-42.19	peak	H
8	7324.000	-71.19	28.59	-42.60	-13.00	-29.60	peak	H
9	7888.000	-70.67	29.65	-41.02	-13.00	-28.02	peak	H
1	92.5000	-67.49	-4.73	-72.22	-13.00	-59.22	peak	V
2	129.0000	-79.26	13.37	-65.89	-13.00	-52.89	peak	V
3	158.5000	-81.71	11.96	-69.75	-13.00	-56.75	peak	V
4	209.5000	-81.50	9.02	-72.48	-13.00	-59.48	peak	V
5	392.0000	-80.46	1.45	-79.01	-13.00	-66.01	peak	V
6	750.0000	-80.10	10.72	-69.38	-13.00	-56.38	peak	V
7	3700.000	-66.72	19.81	-46.91	-13.00	-33.91	peak	V
8	5248.000	-69.79	23.37	-46.42	-13.00	-33.42	peak	V
9	7744.000	-71.62	26.48	-45.14	-13.00	-32.14	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ03100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2	Date:	2011/08/24
Frequency:	1880.0 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	49.0000	-80.88	8.04	-72.84	-13.00	-59.84	peak	H
2	203.5000	-81.61	2.14	-79.47	-13.00	-66.47	peak	H
3	495.5000	-81.16	6.69	-74.47	-13.00	-61.47	peak	H
4	673.0000	-80.66	7.07	-73.59	-13.00	-60.59	peak	H
5	951.5000	-82.31	14.85	-67.46	-13.00	-54.46	peak	H
6	997.5000	-80.59	14.46	-66.13	-13.00	-53.13	peak	H
7	3496.000	-69.33	15.29	-54.04	-13.00	-41.04	peak	H
8	9316.000	-72.14	28.73	-43.41	-13.00	-30.41	peak	H
9	11548.000	-72.88	36.86	-36.02	-13.00	-23.02	peak	H
1	117.0000	-76.32	3.38	-72.94	-13.00	-59.94	peak	V
2	160.5000	-82.02	12.20	-69.82	-13.00	-56.82	peak	V
3	290.5000	-80.31	1.85	-78.46	-13.00	-65.46	peak	V
4	553.5000	-79.42	4.33	-75.09	-13.00	-62.09	peak	V
5	745.0000	-79.92	10.61	-69.31	-13.00	-56.31	peak	V
6	939.0000	-81.24	12.70	-68.54	-13.00	-55.54	peak	V
7	4144.000	-69.21	21.02	-48.19	-13.00	-35.19	peak	V
8	5644.000	-67.65	23.25	-44.40	-13.00	-31.40	peak	V
9	8068.000	-71.55	26.47	-45.08	-13.00	-32.08	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ03100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2	Date:	2011/08/24
Frequency:	1909.8 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	41.0000	-82.60	9.47	-73.13	-13.00	-60.13	peak	H
2	54.0000	-78.24	6.59	-71.65	-13.00	-58.65	peak	H
3	280.0000	-81.10	-4.34	-85.44	-13.00	-72.44	peak	H
4	541.5000	-80.12	8.24	-71.88	-13.00	-58.88	peak	H
5	632.0000	-80.01	7.16	-72.85	-13.00	-59.85	peak	H
6	932.5000	-80.39	14.81	-65.58	-13.00	-52.58	peak	H
7	3892.000	-68.98	16.21	-52.77	-13.00	-39.77	peak	H
8	4876.000	-71.66	19.16	-52.50	-13.00	-39.50	peak	H
9	7432.000	-71.28	28.90	-42.38	-13.00	-29.38	peak	H
1	138.0000	-80.18	10.02	-70.16	-13.00	-57.16	peak	V
2	160.0000	-82.14	12.68	-69.46	-13.00	-56.46	peak	V
3	517.0000	-80.08	3.06	-77.02	-13.00	-64.02	peak	V
4	673.5000	-80.36	9.51	-70.85	-13.00	-57.85	peak	V
5	777.5000	-81.18	11.24	-69.94	-13.00	-56.94	peak	V
6	930.0000	-82.07	12.31	-69.76	-13.00	-56.76	peak	V
7	4156.000	-69.84	21.06	-48.78	-13.00	-35.78	peak	V
8	5728.000	-64.33	23.11	-41.22	-13.00	-28.22	peak	V

7 Frequency Stability (Temperature Variation) Test

7.1. Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

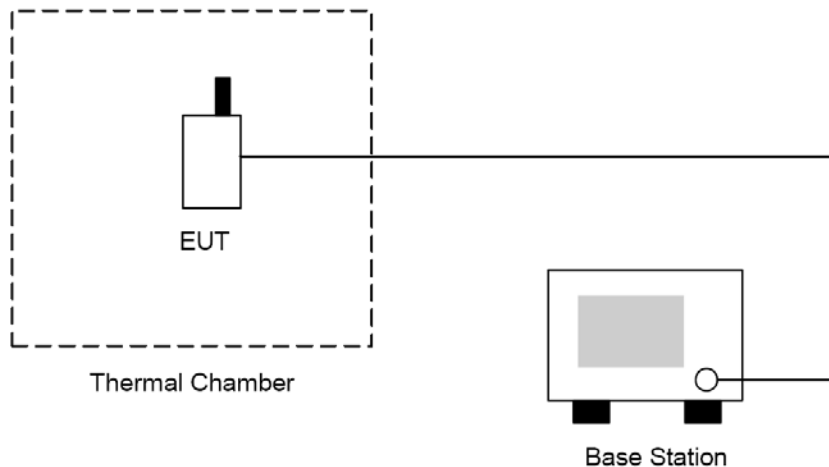
7.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	08/26/2010	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

7.3. Setup



7.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to -30°C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
3. With power OFF, the temperature was raised in 10°C steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The temperature tests were performed for the worst case.
5. Test data was recorded.

7.5. Uncertainty

The measurement uncertainty is defined as for Frequency Stability (Temperature Variation) measurement is $\pm 10\text{Hz}$.

7.6. Test Result

Model Number	PJ03100			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 1: GSM 850 Link			
Date of Test	08/24/2011		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	-31.00	-0.037	±2.5	Pass
-20	-28.00	-0.033	±2.5	Pass
-10	-39.00	-0.047	±2.5	Pass
0	-21.00	-0.025	±2.5	Pass
10	-26.00	-0.031	±2.5	Pass
20	-32.00	-0.038	±2.5	Pass
30	-29.00	-0.035	±2.5	Pass
40	-19.00	-0.023	±2.5	Pass
50	-32.00	-0.038	±2.5	Pass

Model Number	PJ03100			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 2: GSM 1900 Link			
Date of Test	08/24/2011		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	-58.00	-0.031	±2.5	Pass
-20	-70.00	-0.037	±2.5	Pass
-10	-73.00	-0.039	±2.5	Pass
0	-52.00	-0.028	±2.5	Pass
10	-69.00	-0.037	±2.5	Pass
20	-51.00	-0.027	±2.5	Pass
30	-59.00	-0.031	±2.5	Pass
40	-55.00	-0.029	±2.5	Pass
50	-57.00	-0.030	±2.5	Pass

8 Frequency Stability (Voltage Variation) Test

8.1. Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

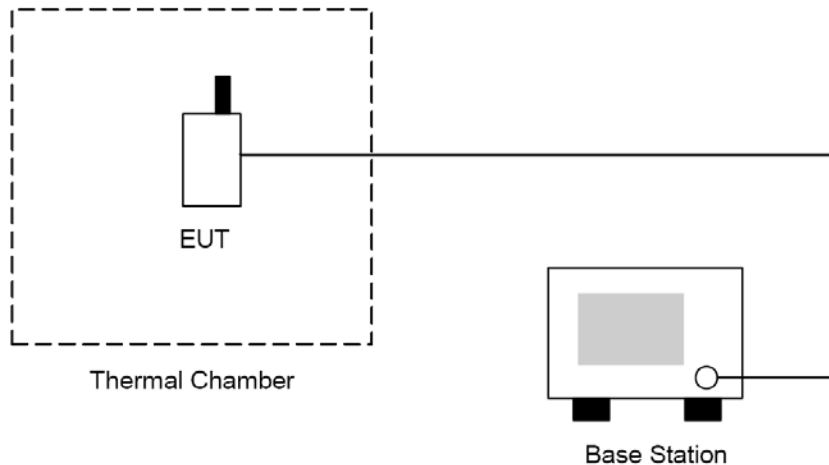
8.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	08/26/2010	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

8.3. Setup



8.4. Test Procedure

1. The EUT was placed in a temperature chamber at $25 \pm 5^\circ\text{C}$ and connected as the following section.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

8.5. Uncertainty

The measurement uncertainty is defined as for Frequency Stability (Voltage Variation) measurement is $\pm 10\text{Hz}$.

8.6. Test Result

Model Number	PJ03100				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 1: GSM 850 Link				
Date of Test	08/24/2011		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.37	-38.00	-0.045	± 2.5	Pass
Normal	3.80	-31.00	-0.037	± 2.5	Pass
Battery cut-off point	3.23	-28.00	-0.033	± 2.5	Pass

Model Number	PJ03100				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 2: GSM 1900 Link				
Date of Test	08/24/2011		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.37	-78.00	-0.041	± 2.5	Pass
Normal	3.80	-74.00	-0.039	± 2.5	Pass
Battery cut-off point	3.23	-59.00	-0.031	± 2.5	Pass

9 AC Power Conducted Emissions Test

9.1. Limit

Frequency range (MHz)	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5.0	56	46
5.0 to 30	60	50

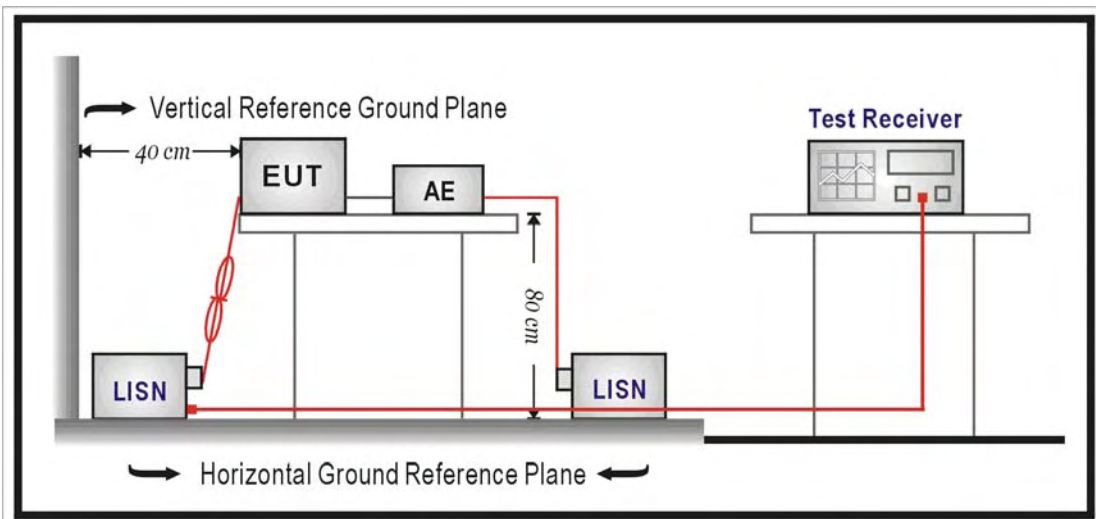
9.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Test Receiver	R&S	ESCI	100367	06/030/2011	(1)
LISN	R&S	ENV216	101040	03/04/2011	(1)
LISN	R&S	ENV216	101041	03/04/2011	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

9.3. Setup



9.4. Test Procedure

The measurement is made according to FCC rules 15.207:

The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the back wall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3162/2 SH Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

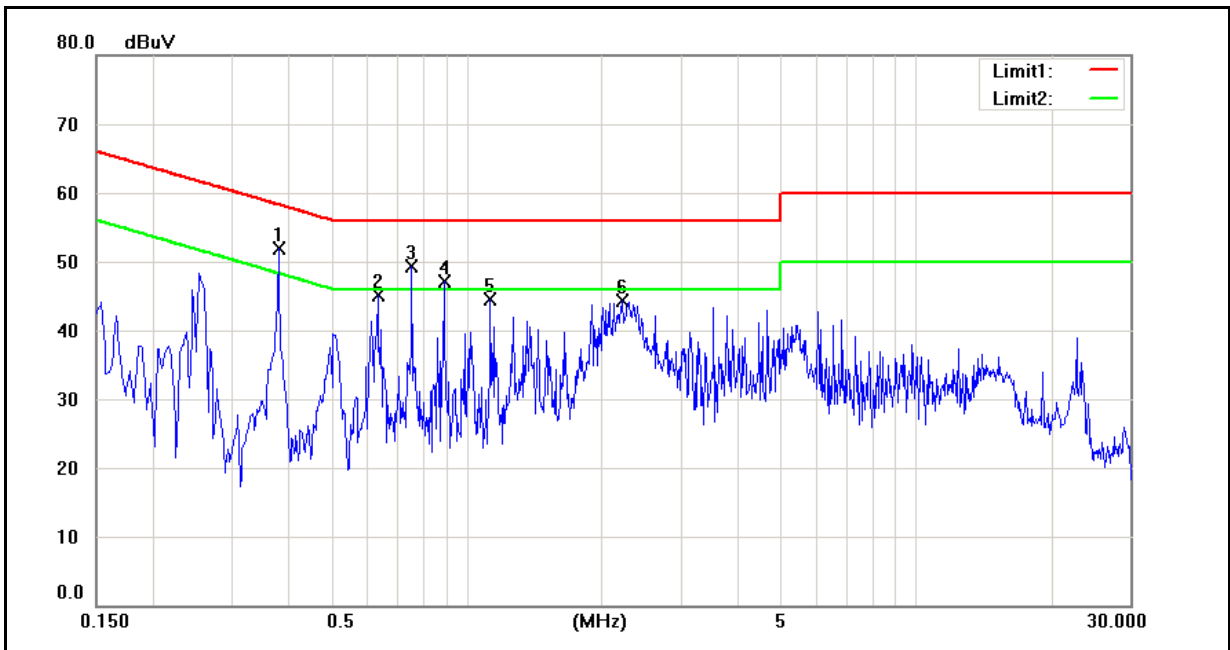
The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in section 10.6.

9.5. Uncertainty

The measurement uncertainty is defined as for AC power conducted emission measurement is ± 2.24 dB.

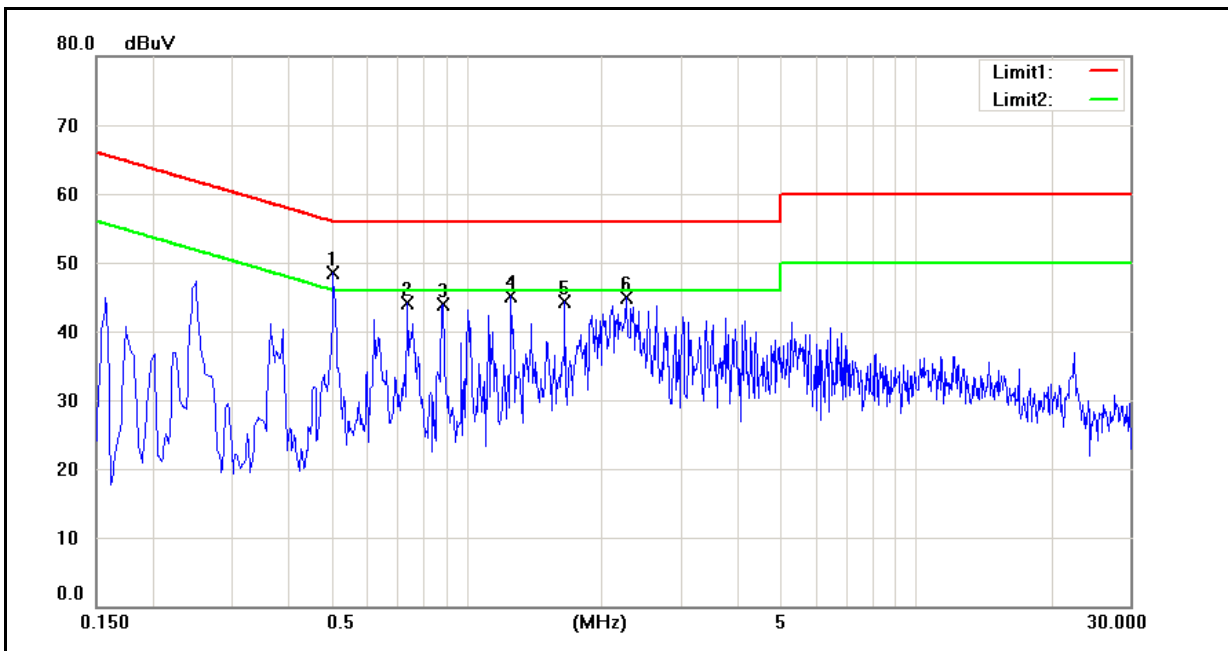
9.6. Test Result

Standard:	FCC Part 22H	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model:	PC49120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	2011/08/12
		Test By:	Gary Wu
Description:			



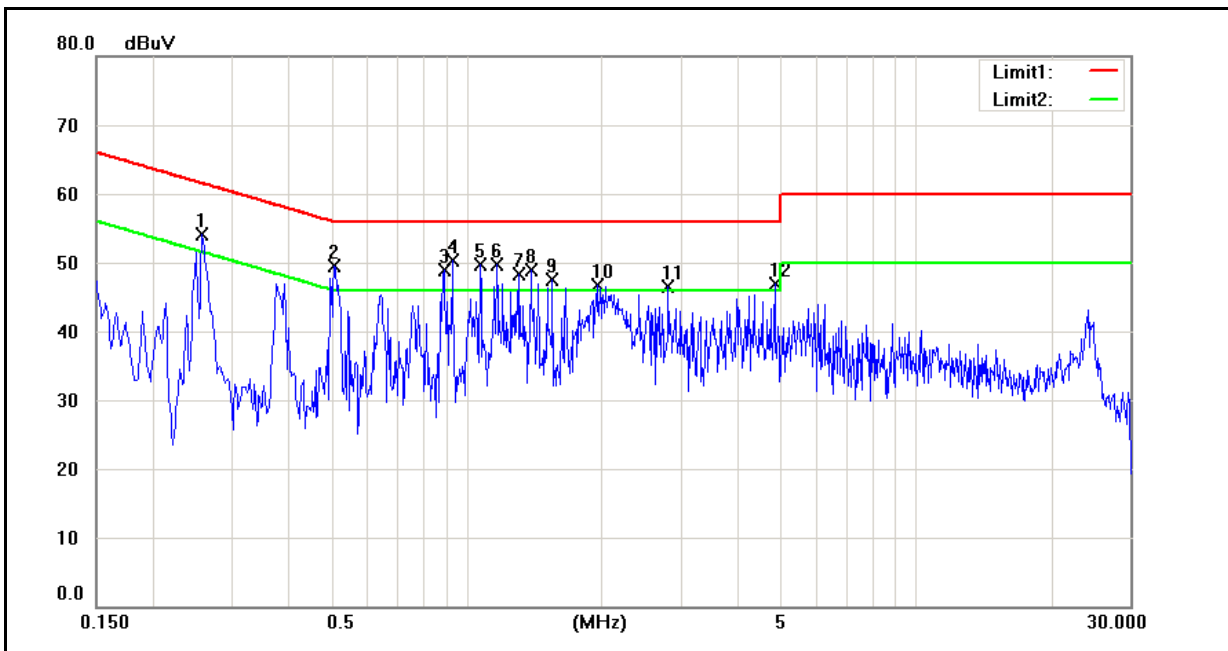
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.3820	28.91	20.24	9.98	38.89	30.22	58.24	48.24	-19.35	-18.02	Pass
2	0.6340	25.16	15.32	9.87	35.03	25.19	56.00	46.00	-20.97	-20.81	Pass
3	0.7580	23.20	13.78	9.83	33.03	23.61	56.00	46.00	-22.97	-22.39	Pass
4	0.8940	25.45	14.82	9.77	35.22	24.59	56.00	46.00	-20.78	-21.41	Pass
5	1.1300	15.89	6.25	9.72	25.61	15.97	56.00	46.00	-30.39	-30.03	Pass
6	2.2340	30.74	22.86	9.71	40.45	32.57	56.00	46.00	-15.55	-13.43	Pass

Standard:	FCC Part 22H	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model:	PC49120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	2011/08/12
		Test By:	Gary Wu
Description:			



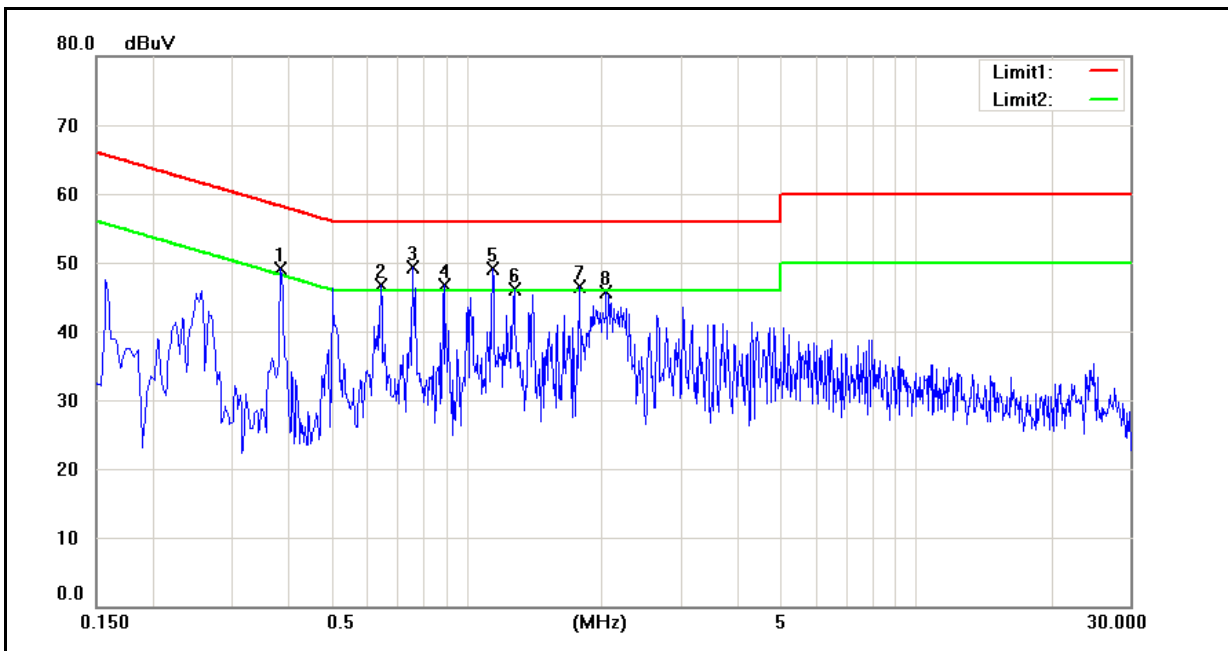
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.5060	35.09	25.93	10.01	45.10	35.94	56.00	46.00	-10.90	-10.06	Pass
2	0.7420	23.25	13.66	9.91	33.16	23.57	56.00	46.00	-22.84	-22.43	Pass
3	0.8860	31.19	23.41	9.85	41.04	33.26	56.00	46.00	-14.96	-12.74	Pass
4	1.2620	29.50	20.10	9.77	39.27	29.87	56.00	46.00	-16.73	-16.13	Pass
5	1.6540	27.02	17.60	9.75	36.77	27.35	56.00	46.00	-19.23	-18.65	Pass
6	2.2660	29.49	22.01	9.77	39.26	31.78	56.00	46.00	-16.74	-14.22	Pass

Standard:	FCC Part 24E	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model:	PC49120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2	Date:	2011/08/12
		Test By:	Gary Wu
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.2580	40.94	27.17	10.03	50.97	37.20	61.50	51.50	-10.53	-14.30	Pass
2	0.5100	37.69	25.22	9.93	47.62	35.15	56.00	46.00	-8.38	-10.85	Pass
3	0.8940	36.78	22.83	9.77	46.55	32.60	56.00	46.00	-9.45	-13.40	Pass
4	0.9300	29.95	12.14	9.76	39.71	21.90	56.00	46.00	-16.29	-24.10	Pass
5	1.0740	24.88	18.62	9.72	34.60	28.34	56.00	46.00	-21.40	-17.66	Pass
6	1.1660	28.40	19.19	9.71	38.11	28.90	56.00	46.00	-17.89	-17.10	Pass
7	1.3100	27.49	19.89	9.70	37.19	29.59	56.00	46.00	-18.81	-16.41	Pass
8	1.3940	30.20	20.90	9.69	39.89	30.59	56.00	46.00	-16.11	-15.41	Pass
9	1.5580	24.83	14.58	9.69	34.52	24.27	56.00	46.00	-21.48	-21.73	Pass
10	1.9580	34.19	25.07	9.68	43.87	34.75	56.00	46.00	-12.13	-11.25	Pass
11	2.8220	25.83	14.51	9.78	35.61	24.29	56.00	46.00	-20.39	-21.71	Pass
12	4.8700	21.78	8.25	9.81	31.59	18.06	56.00	46.00	-24.41	-27.94	Pass

Standard:	FCC Part 24E	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model:	PC49120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2	Date:	2011/08/12
		Test By:	Gary Wu
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.3860	34.69	22.46	10.06	44.75	32.52	58.15	48.15	-13.40	-15.63	Pass
2	0.6460	30.07	18.36	9.95	40.02	28.31	56.00	46.00	-15.98	-17.69	Pass
3	0.7620	32.87	23.33	9.90	42.77	33.23	56.00	46.00	-13.23	-12.77	Pass
4	0.8900	32.09	21.56	9.85	41.94	31.41	56.00	46.00	-14.06	-14.59	Pass
5	1.1490	34.40	23.01	9.79	44.19	32.80	56.00	46.00	-11.81	-13.20	Pass
6	1.2780	33.01	21.97	9.77	42.78	31.74	56.00	46.00	-13.22	-14.26	Pass
7	1.7820	28.76	18.38	9.74	38.50	28.12	56.00	46.00	-17.50	-17.88	Pass
8	2.0500	32.37	24.77	9.75	42.12	34.52	56.00	46.00	-13.88	-11.48	Pass