

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 : PJ46100
Test Specification : FCC 47 CFR PART 22H: Oct, 2009
FCC 47 CFR PART 24E: Oct, 2009
CANADA RSS-132 ISSUE 2: Sep., 2005
CANADA RSS-133 ISSUE 5: Feb., 2009
Canada RSS-Gen ISSUE 3: Dec., 2010
ANSI/TIA-603-C-2004
Application Purpose : Original
Receive Date : Jan. 19, 2012
Issue Date : Feb. 23, 2012

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	Feb. 23, 2012	Initial Issue	

Verification of Compliance

Issued Date: 02/23/2012

Product Type : Smartphone
Applicant : HTC Corporation
Address : No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330,
Taiwan
Trade Name : HTC
Model Number : PJ46100
FCC ID : NM8PJ46100
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
CANADA RSS-132 ISSUE 2: Sep., 2005
CANADA RSS-133 ISSUE 5: Feb., 2009
Canada RSS-Gen ISSUE 3: Dec., 2010
ANSI/TIA-603-C-2004

Application : Original

Purpose

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)

(Murphy Wang)

Reviewed By : 

(Testing Engineer)

(Fly Lu)

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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		PJ46100			
IMEI Number		359188040039208			
FCC ID		NM8PJ46100			
Mode	GSM/GPRS/ EGPRS/DTM	Band	UL Frequency	DL Frequency (MHz)	Modulation
		850	824.2 ~ 848.8	869.2 ~ 893.8	GMSK/8PSK
	WCDMA/HSDPA /HSUPA/HSPA+	1900	1850.2 ~ 1909.8	1930.2 ~ 1989.8	GMSK/8PSK
		Band	UL Frequency	DL Frequency (MHz)	Modulation
		II	1852.4 ~ 1907.6	1932.4 ~ 1987.6	QPSK
		V	826.4 ~ 846.6	871.4 ~ 891.6	QPSK
Channel Control		Auto			
Type of Antenna		PIFA antenna			
Antenna Gain (dBi)		GSM/GPRS/EGPRS 850: -1.67 dBi GSM/GPRS/EGPRS 1900: 0.88 dBi WCDMA/ HSDPA/ HSUPA/HSPA+ Band II: -1.67 dBi WCDMA/ HSDPA/ HSUPA/HSPA+ Band V: -1.67 dBi			
Max. RF Output power		GSM/GPRS 850: 33.41 dBm / 2.193 W, EGPRS 850: 30.31 dBm / 1.074 W DTM 850: 33.33 dBm / 2.153 W GSM/GPRS 1900: 30.53 dBm / 1.130 W, EGPRS 1900: 28.80 dBm / 0.759 W DTM 1900: 29.50 dBm / 0.891 W WCDMA/ HSDPA/ HSUPA/HSPA+ Band II: 26.68 dBm / 0.466 W WCDMA/ HSDPA/ HSUPA/HSPA+ Band V: 26.44 dBm / 0.441 W			
Max. ERP/EIRP		GSM/GPRS 850: 26.99 dBm / 0.500 W, EGPRS 850: 21.39 dBm / 0.138 W GSM/GPRS 1900: 27.95 dBm / 0.624 W, EGPRS 1900: 25.68 dBm / 0.370 W WCDMA/ HSDPA/ HSUPA/HSPA+ Band II: 25.12 dBm / 0.325 W WCDMA/ HSDPA/ HSUPA/HSPA+ Band V: 19.95 dBm / 0.099 W			
Emission Designator		GSM/GPRS 850: 243KGXW, EGPRS 850: 243KG7W GSM/GPRS 1900: 244KGXW, EGPRS 1900: 249KG7W WCDMA/ HSDPA/ HSUPA/HSPA+ Band II: 4M06F9W WCDMA/ HSDPA/ HSUPA/HSPA+ Band V: 4M08F9W			

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: WCDMA Band II Link
Mode 4: WCDMA Band V Link
Mode 5: EGPRS 850 Link
Mode 6: 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

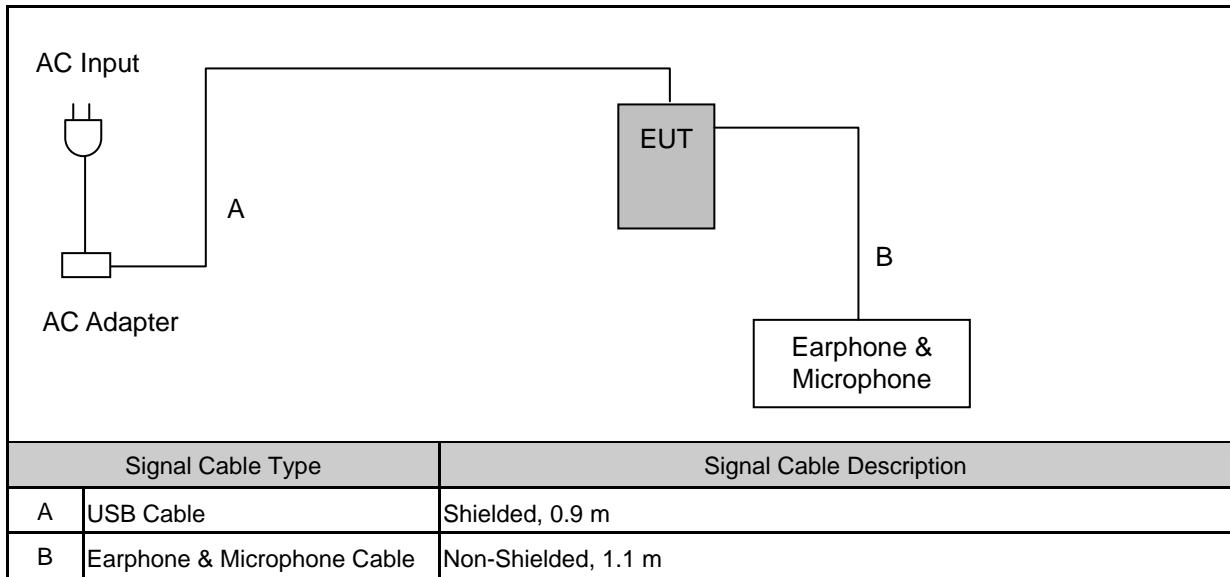
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

	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)	RSS-Gen (4.6.1)	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) RSS-Gen (4.10)	< 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

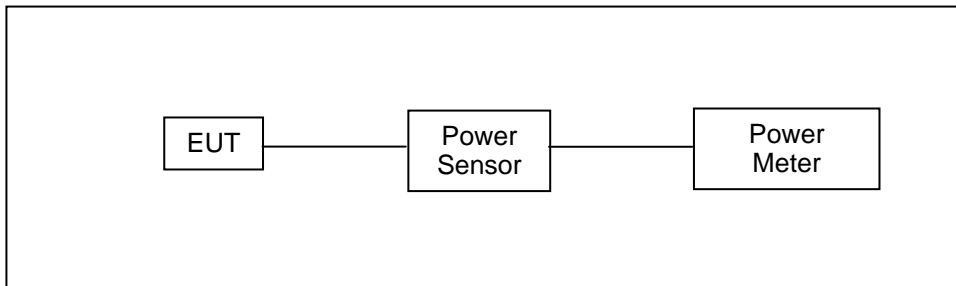
2.2. Test Instruments

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	PJ46100					
Test Item	RF Output Power					
Date of Test	02/02/2012			Test Site	TE02	
Bands	Data Rate	Frequency (MHz)	Burst Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
GSM 850	-----	824.2	33.15	2.065	33.25	2.113
		836.4	33.20	2.089	33.30	2.138
		848.8	33.24	2.109	33.35	2.163
GRRS 850	4Down1Up	824.2	33.18	2.080	33.28	2.128
		836.4	33.21	2.094	33.31	2.143
		848.8	33.23	2.104	33.34	2.158
	3Down2Up	824.2	33.11	2.046	33.31	2.143
		836.4	33.15	2.065	33.35	2.163
		848.8	33.21	2.094	33.41	2.193
	2Down3Up	824.2	32.48	1.770	32.68	1.854
		836.4	32.48	1.770	32.68	1.854
		848.8	32.47	1.766	32.67	1.849
	1Down4Up	824.2	31.32	1.355	31.62	1.452
		836.4	31.30	1.349	31.60	1.445
		848.8	31.31	1.352	31.61	1.449
EGPRS 850	4Down1Up	824.2	27.00	0.501	30.30	1.072
		836.4	27.00	0.501	30.30	1.072
		848.8	27.01	0.502	30.31	1.074
	3Down2Up	824.2	27.00	0.501	30.30	1.072
		836.4	27.00	0.501	30.30	1.072
		848.8	26.97	0.498	30.27	1.064
	2Down3Up	824.2	26.23	0.420	29.53	0.897
		836.4	26.22	0.419	29.52	0.895
		848.8	26.19	0.416	29.49	0.889
	1Down4Up	824.2	25.03	0.318	28.33	0.681
		836.4	25.01	0.317	28.31	0.678
		848.8	25.02	0.318	28.32	0.679
DTM 850	GSM+GPRS 2Down3Up	824.2	32.45	1.758	32.60	1.820
		836.4	32.35	1.718	32.60	1.820
		848.8	32.25	1.679	32.50	1.778
	GSM+EGPRS 2Down3Up	824.2	26.20	0.417	33.25	2.113
		836.4	26.18	0.415	33.30	2.138
		848.8	26.16	0.413	33.33	2.153

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

Model Number	PJ46100					
Test Item	RF Output Power					
Date of Test	02/02/2012			Test Site	TE02	
Bands	Data Rate	Frequency (MHz)	Burst Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
GSM 1900	-----	1850.20	30.26	1.062	30.46	1.112
		1880.00	30.29	1.069	30.49	1.119
		1909.80	30.33	1.079	30.53	1.130
GRRS 1900	4Down1Up	1850.20	30.18	1.042	30.38	1.091
		1880.00	30.22	1.052	30.42	1.102
		1909.80	30.28	1.067	30.48	1.117
	3Down2Up	1850.20	30.20	1.047	30.40	1.096
		1880.00	30.23	1.054	30.43	1.104
		1909.80	30.28	1.067	30.48	1.117
	2Down3Up	1850.20	29.46	0.883	29.66	0.925
		1880.00	29.46	0.883	29.66	0.925
		1909.80	29.50	0.891	29.70	0.933
	1Down4Up	1850.20	28.33	0.681	28.53	0.713
		1880.00	28.30	0.676	28.50	0.708
		1909.80	28.35	0.684	28.55	0.716
EGRRS 1900	4Down1Up	1850.20	25.68	0.370	28.68	0.738
		1880.00	25.80	0.380	28.80	0.759
		1909.80	25.71	0.372	28.71	0.743
	3Down2Up	1850.20	25.69	0.371	28.69	0.740
		1880.00	25.69	0.371	28.69	0.740
		1909.80	25.71	0.372	28.71	0.743
	2Down3Up	1850.20	24.93	0.311	27.93	0.621
		1880.00	24.89	0.308	27.89	0.615
		1909.80	24.93	0.311	27.93	0.621
	1Down4Up	1850.20	23.72	0.236	26.72	0.470
		1880.00	23.71	0.235	26.71	0.469
		1909.80	23.75	0.237	26.75	0.473
DTM 1900	GSM+EGPRS 2Down3Up	1850.20	24.77	0.300	29.47	0.885
		1880.00	24.67	0.293	29.27	0.845
		1909.80	24.47	0.280	29.17	0.826
	GSM+GPRS 2Down3Up	1850.20	29.40	0.871	29.50	0.891
		1880.00	29.30	0.851	29.50	0.891
		1909.80	29.30	0.851	29.50	0.891

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

Model Number	PJ46100					
Test Item	RF Output Power					
Date of Test	02/02/2012			Test Site	TE02	
Bands	Sub-Test	Frequency (MHz)	Burst Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
WCDMA Band II	-----	1852.4	22.94	0.197	26.35	0.432
		1880.0	22.93	0.196	26.35	0.432
		1907.6	23.29	0.213	26.68	0.466
HSDPA Band II	1	1852.4	21.93	0.156	25.35	0.343
		1880.0	21.91	0.155	25.33	0.341
		1907.6	22.26	0.168	25.71	0.372
	2	1852.4	21.90	0.155	25.32	0.340
		1880.0	21.88	0.154	25.30	0.339
		1907.6	22.25	0.168	25.70	0.372
	3	1852.4	21.49	0.141	24.91	0.310
		1880.0	21.46	0.140	24.88	0.308
		1907.6	21.78	0.151	25.20	0.331
	4	1852.4	21.41	0.138	24.83	0.304
		1880.0	21.39	0.138	24.81	0.303
		1907.6	21.75	0.150	25.17	0.329
HSUPA Band II	1	1852.4	21.03	0.127	24.45	0.279
		1880.0	21.30	0.135	24.72	0.296
		1907.6	21.66	0.147	25.08	0.322
	2	1852.4	19.00	0.079	22.42	0.175
		1880.0	19.21	0.083	22.63	0.183
		1907.6	19.72	0.094	23.14	0.206
	3	1852.4	20.12	0.103	23.54	0.226
		1880.0	20.40	0.110	23.82	0.241
		1907.6	20.71	0.118	24.13	0.259
	4	1852.4	19.07	0.081	22.49	0.177
		1880.0	19.39	0.087	22.81	0.191
		1907.6	19.76	0.095	23.18	0.208
	5	1852.4	20.94	0.124	24.36	0.273
		1880.0	21.29	0.135	24.71	0.296
		1907.6	21.57	0.144	24.99	0.316

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

Model Number	PJ46100					
Test Item	RF Output Power					
Date of Test	02/02/2012			Test Site	TE02	
Bands	Sub-Test	Frequency (MHz)	Burst Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
HSPA + Band II	1	1852.4	21.01	0.126	24.43	0.277
		1880.0	21.28	0.134	24.71	0.296
		1907.6	21.64	0.146	25.06	0.321
	2	1852.4	18.99	0.079	22.41	0.174
		1880.0	19.19	0.083	22.62	0.183
		1907.6	19.70	0.093	23.12	0.205
	3	1852.4	20.11	0.103	23.52	0.225
		1880.0	20.39	0.109	23.80	0.240
		1907.6	20.69	0.117	24.12	0.258
	4	1852.4	19.06	0.081	22.47	0.177
		1880.0	19.38	0.087	22.79	0.190
		1907.6	19.74	0.094	23.16	0.207
	5	1852.4	20.92	0.124	24.35	0.272
		1880.0	21.27	0.134	24.70	0.295
		1907.6	21.55	0.143	24.98	0.315

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

Model Number	PJ46100					
Test Item	RF Output Power					
Date of Test	02/02/2012			Test Site	TE02	
Bands	Sub-Test	Frequency (MHz)	Burst Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
WCDMA Band V	-----	826.4	23.40	0.219	26.28	0.425
		836.6	23.56	0.227	26.44	0.441
		846.4	23.29	0.213	26.17	0.414
HSDPA Band V	1	826.4	23.09	0.204	25.97	0.395
		836.6	23.28	0.213	26.16	0.413
		846.4	22.98	0.199	25.86	0.385
	2	826.4	23.08	0.203	25.97	0.395
		836.6	23.28	0.213	26.16	0.413
		846.4	22.98	0.199	25.86	0.385
	3	826.4	22.60	0.182	25.48	0.353
		836.6	22.80	0.191	25.68	0.370
		846.4	22.50	0.178	25.38	0.345
	4	826.4	22.55	0.180	25.43	0.349
		836.6	22.76	0.189	25.64	0.366
		846.4	22.43	0.175	25.31	0.340
HSUPA Band V	1	826.4	22.34	0.171	25.22	0.333
		836.6	22.53	0.179	25.41	0.348
		846.4	22.37	0.173	25.25	0.335
	2	826.4	20.31	0.107	23.19	0.208
		836.6	20.59	0.115	23.47	0.222
		846.4	20.29	0.107	23.17	0.207
	3	826.4	21.40	0.138	24.28	0.268
		836.6	21.56	0.143	24.44	0.278
		846.4	21.28	0.134	24.16	0.261
	4	826.4	20.44	0.111	23.20	0.209
		836.6	20.53	0.113	23.41	0.219
		846.4	20.29	0.107	23.17	0.207
	5	826.4	22.28	0.169	25.18	0.330
		836.6	22.46	0.176	25.34	0.342
		846.4	22.46	0.176	25.33	0.341

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

Model Number	PJ46100					
Test Item	RF Output Power					
Date of Test	02/02/2012			Test Site	TE02	
Bands	Sub-Test	Frequency (MHz)	Burst Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
HSPA + Band V	1	826.4	22.33	0.171	25.20	0.331
		836.6	22.52	0.179	25.39	0.346
		846.4	22.35	0.172	25.22	0.333
	2	826.4	20.30	0.107	23.16	0.207
		836.6	20.57	0.114	23.45	0.221
		846.4	20.26	0.106	23.16	0.207
	3	826.4	21.38	0.137	24.25	0.266
		836.6	21.53	0.142	24.43	0.277
		846.4	21.27	0.134	24.13	0.259
	4	826.4	20.43	0.110	23.19	0.208
		836.6	20.52	0.113	23.40	0.219
		846.4	20.27	0.106	23.15	0.207
	5	826.4	22.26	0.168	25.15	0.327
		836.6	22.45	0.176	25.33	0.341
		846.4	22.43	0.175	25.31	0.340

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

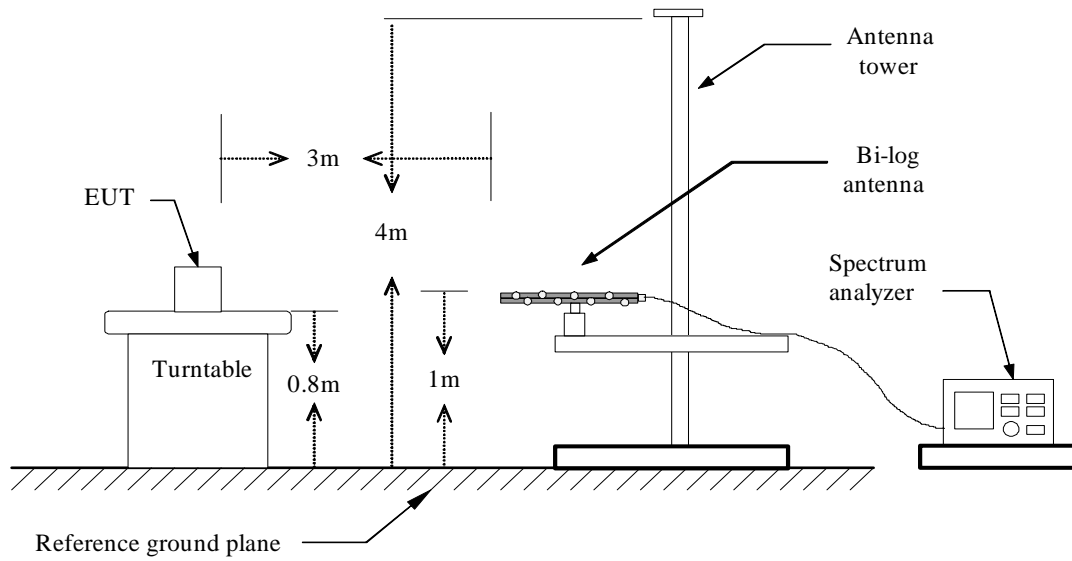
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/16/2012	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/16/2012	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/23/2011	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/23/2011	(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	12/20/2012	(1)

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

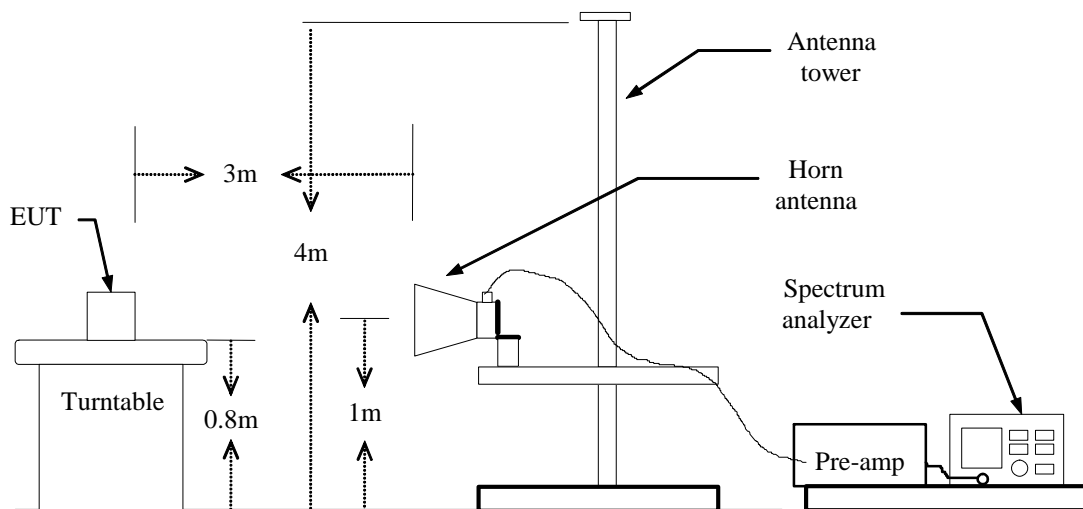
NOTE: N.C.R. = No Calibration Request.

3.3. Setup

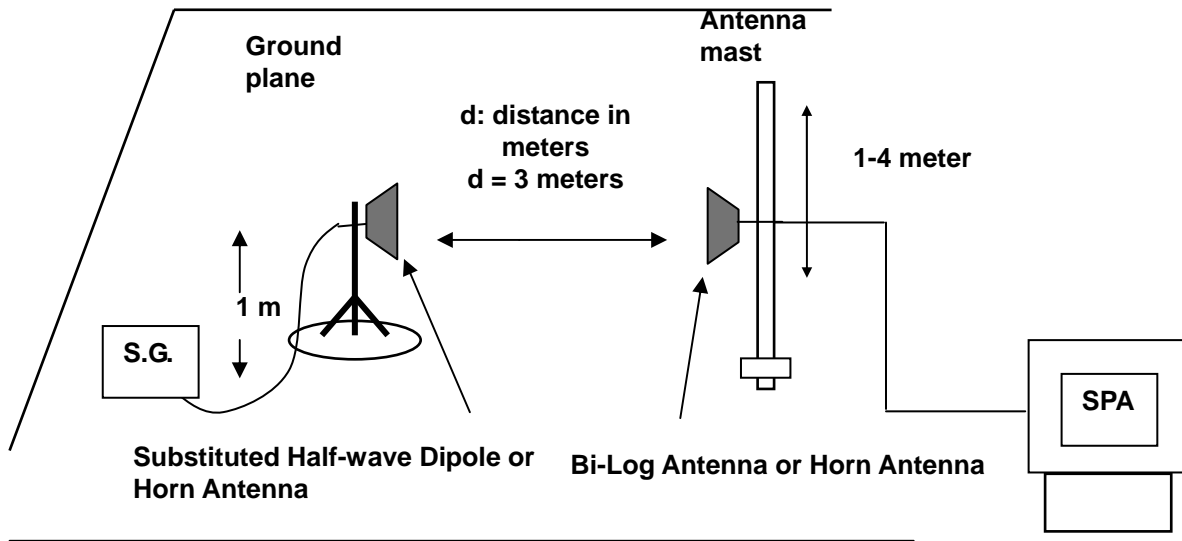
Below 1 GHz



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	PJ46100						
Test Item	ERP/EIRP						
Test Mode	Mode 1: GSM 850 Link						
Date of Test	02/16/2012				Test Site	TE01	
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	ERP		Limit
					(dBm)	(W)	
GSM 850	824.2	H	5.82	11.96	17.78	0.060	< 7W
		V	14.61	11.29	25.90	0.389	< 7W
	836.4	H	8.11	12.07	20.18	0.104	< 7W
		V	15.65	11.34	26.99	0.500	< 7W
	848.8	H	8.38	12.51	20.89	0.123	< 7W
		V	15.21	11.47	26.68	0.466	< 7W
EGPRS 850	824.2	H	-0.24	11.95	11.71	0.015	< 7W
		V	8.97	11.30	20.27	0.106	< 7W
	836.4	H	2.01	12.07	14.08	0.026	< 7W
		V	10.05	11.34	21.39	0.138	< 7W
	848.8	H	2.09	12.50	14.59	0.029	< 7W
		V	9.63	11.47	21.10	0.129	< 7W

Model Number	PJ46100						
Test Item	ERP/EIRP						
Test Mode	Mode 2: GSM 1900 Link						
Date of Test	02/16/2012				Test Site	TE01	
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	EIRP		Limit
					(dBm)	(W)	
GSM 1900	1850.20	H	17.46	10.49	27.95	0.624	< 2W
		V	17.04	8.33	25.37	0.344	< 2W
	1880.00	H	16.20	10.51	26.71	0.469	< 2W
		V	17.46	8.57	26.03	0.401	< 2W
	1909.80	H	15.85	10.52	26.37	0.434	< 2W
		V	17.14	8.81	25.95	0.394	< 2W
EGPRS 1900	1850.20	H	15.19	10.49	25.68	0.370	< 2W
		V	13.98	8.33	22.31	0.170	< 2W
	1880.00	H	12.88	10.51	23.39	0.218	< 2W
		V	12.24	8.57	20.81	0.121	< 2W
	1909.80	H	12.47	10.52	22.99	0.199	< 2W
		V	14.68	8.81	23.49	0.223	< 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.

Model Number	PJ46100						
Test Item	ERP/EIRP						
Test Mode	Mode 3: WCDMA Band II Link						
Date of Test	02/16/2012				Test Site	TE01	
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	EIRP		Limit
					(dBm)	(W)	
WCDMA Band II	1852.4	H	14.62	10.50	25.12	0.325	< 2W
		V	13.41	8.36	21.77	0.150	< 2W
	1880.0	H	12.06	10.52	22.58	0.181	< 2W
		V	14.14	8.56	22.70	0.186	< 2W
	1907.6	H	11.05	10.52	21.57	0.144	< 2W
		V	13.43	8.78	22.21	0.166	< 2W

Model Number	PJ46100						
Test Item	ERP/EIRP						
Test Mode	Mode 4: WCDMA Band V Link						
Date of Test	02/16/2012				Test Site	TE01	
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	ERP		Limit
					(dBm)	(W)	
WCDMA Band V	826.4	H	-1.50	11.97	10.47	0.011	< 7W
		V	8.35	11.30	19.65	0.092	< 7W
	836.4	H	0.65	12.08	12.73	0.019	< 7W
		V	8.61	11.34	19.95	0.099	< 7W
	846.4	H	-0.02	12.35	12.33	0.017	< 7W
		V	7.61	11.42	19.03	0.080	< 7W

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.

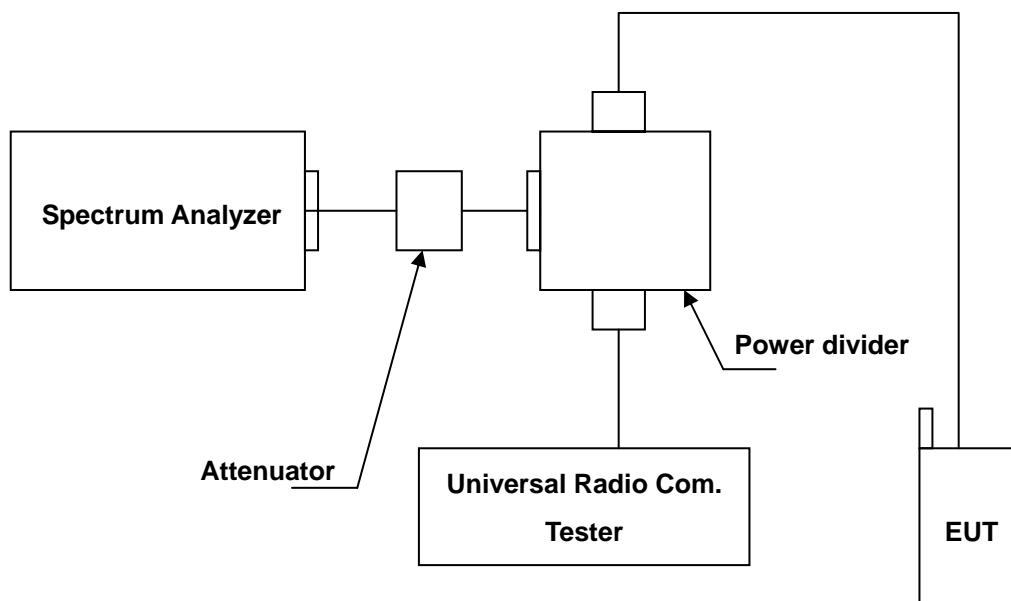
4.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/16/2011	(2)
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

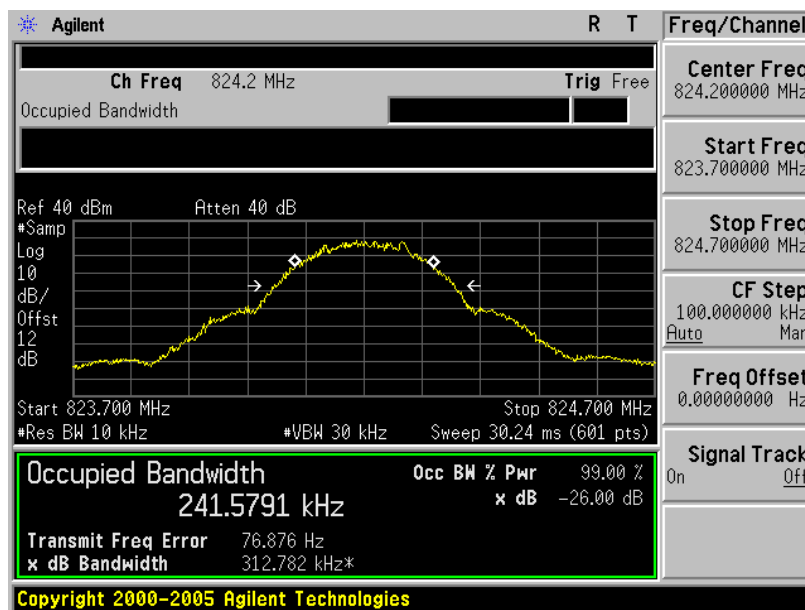
The measurement uncertainty is defined as $\pm 10\text{Hz}$

4.6. Test Result

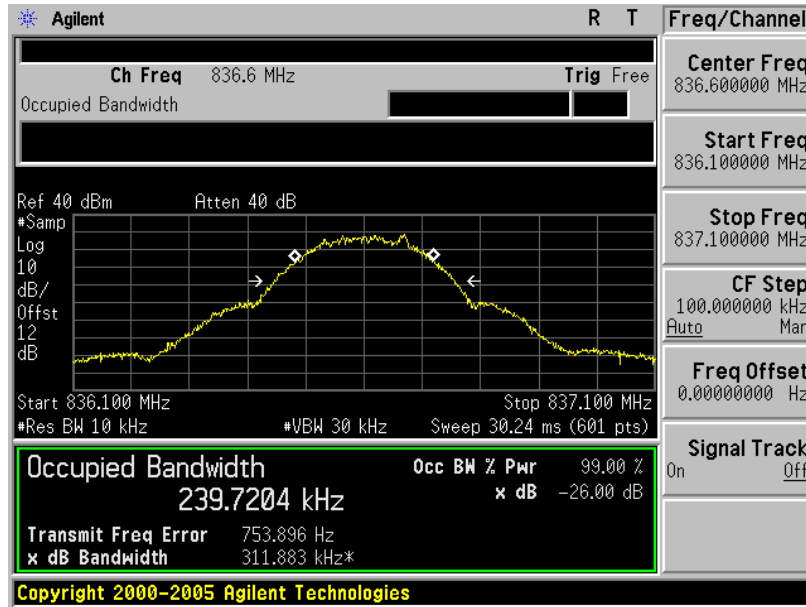
99% Occupied Bandwidth

Model Number	PJ46100		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: GSM 850 Link		
Date of Test	02/02/2012	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
128	824.2	241.5791	RBW:10kHz, VBW:30kHz
190	836.4	239.7204	RBW:10kHz, VBW:30kHz
251	848.8	243.4280	RBW:10kHz, VBW:30kHz

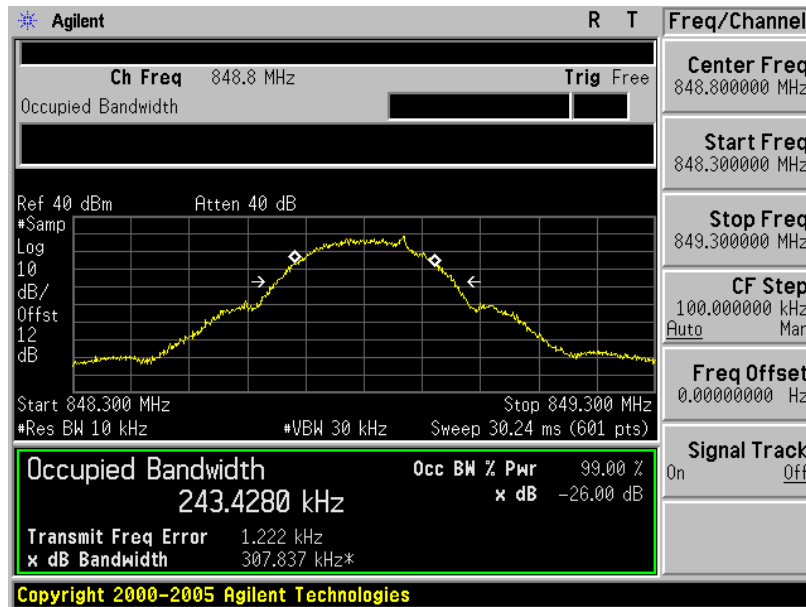
Channel 128



Channel 190

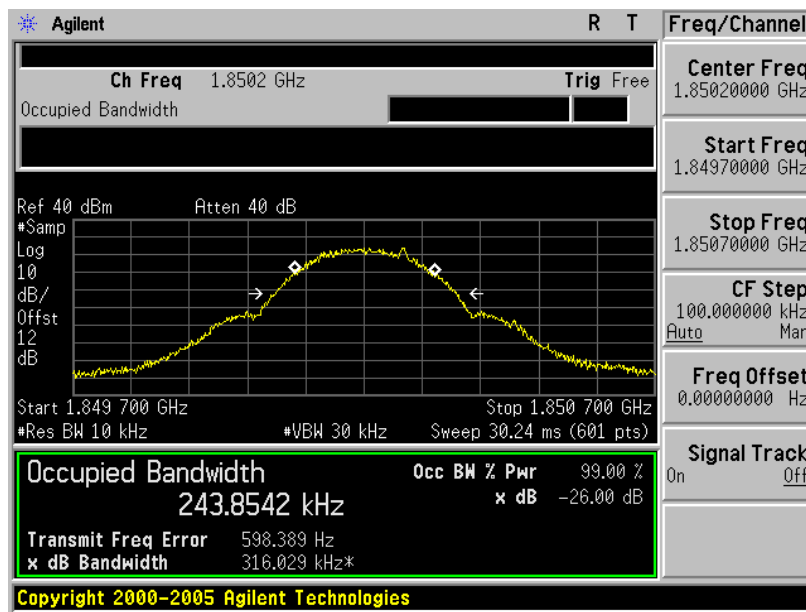


Channel 251

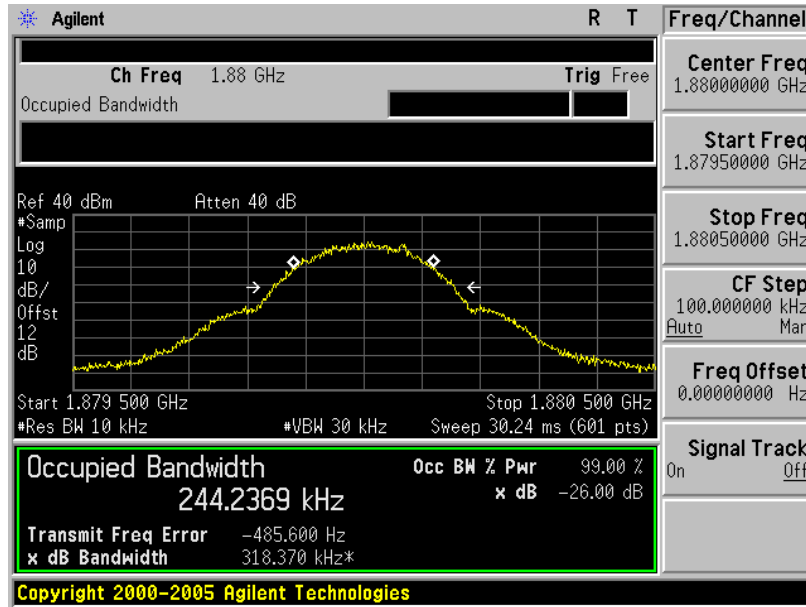


Model Number	PJ46100		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: GSM 1900 Link		
Date of Test	02/02/2012	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
512	1850.20	243.8542	RBW:10kHz, VBW:30kHz
661	1880.00	244.2369	RBW:10kHz, VBW:30kHz
810	1909.80	244.3924	RBW:10kHz, VBW:30kHz

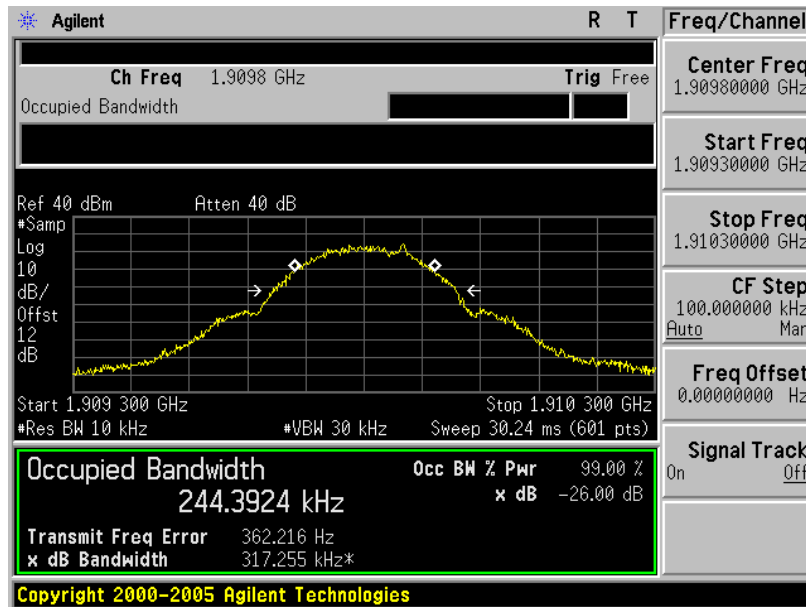
Channel 512



Channel 661

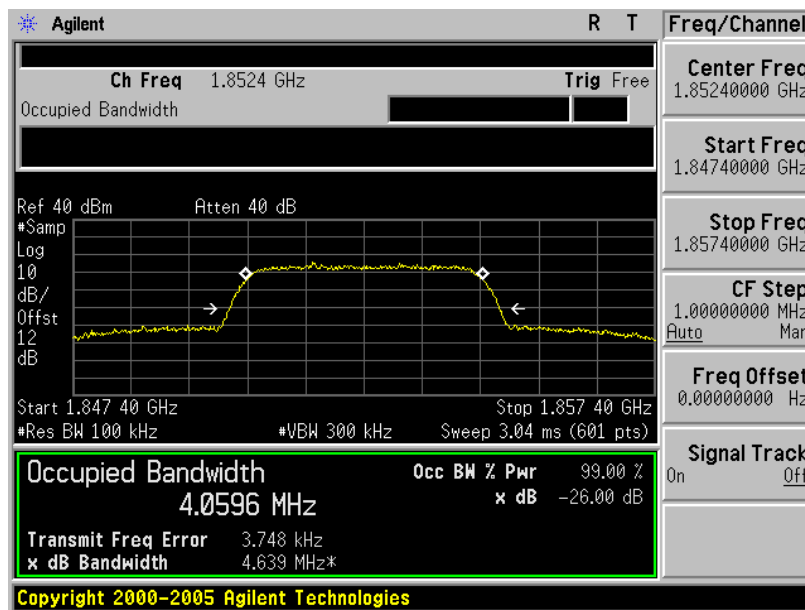


Channel 810

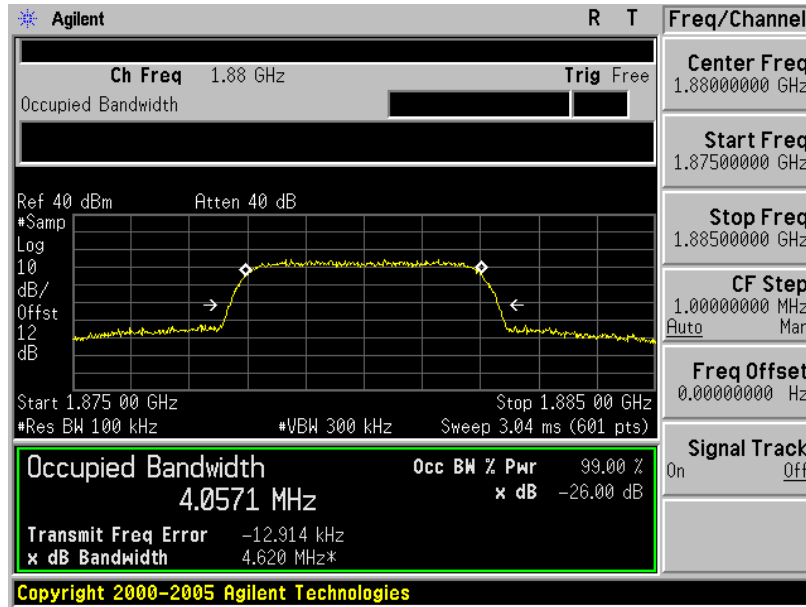


Model Number	PJ46100		
Test Item	Occupied Bandwidth		
Test Mode	Mode 3: WCDMA Band II Link		
Date of Test	02/02/2012	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	Note
9262	1852.4	4.0596	RBW:100kHz , VBW:300kHz
9400	1880.0	4.0571	RBW:100kHz , VBW:300kHz
9538	1907.6	4.0498	RBW:100kHz , VBW:300kHz

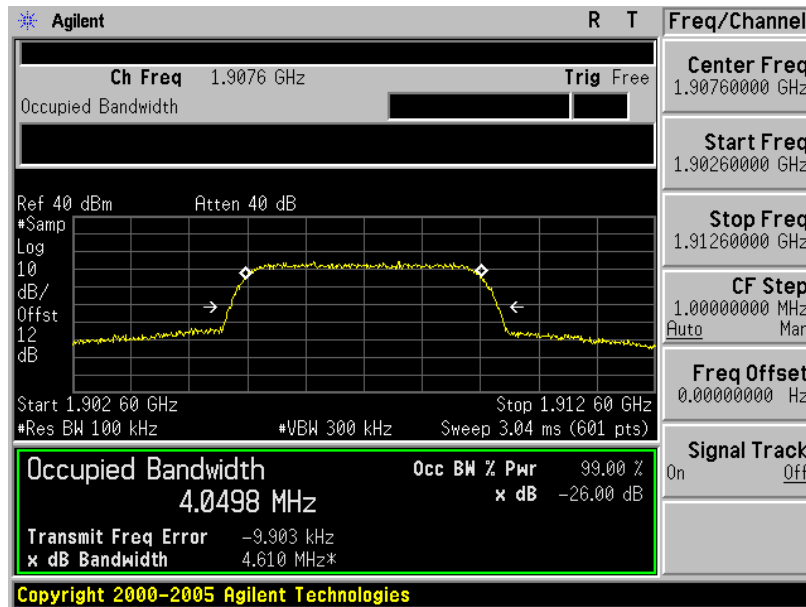
Channel 9262



Channel 9400

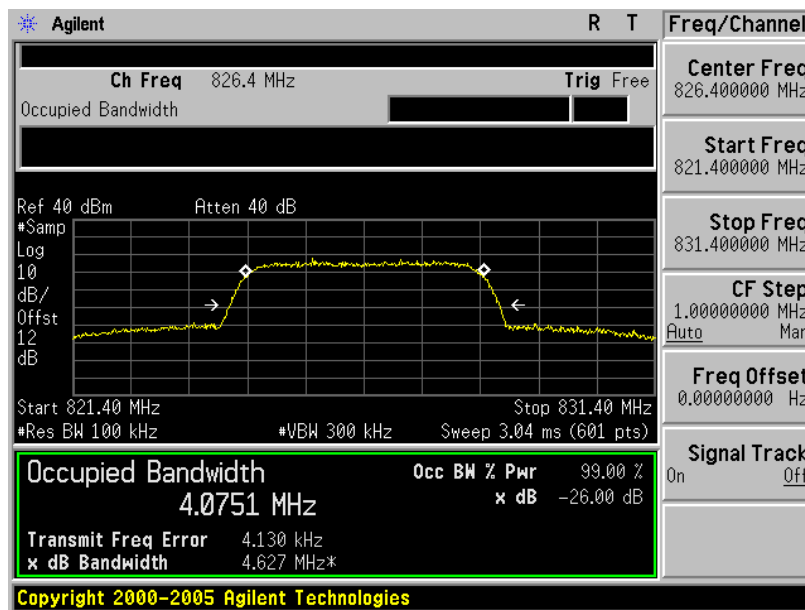


Channel 9538

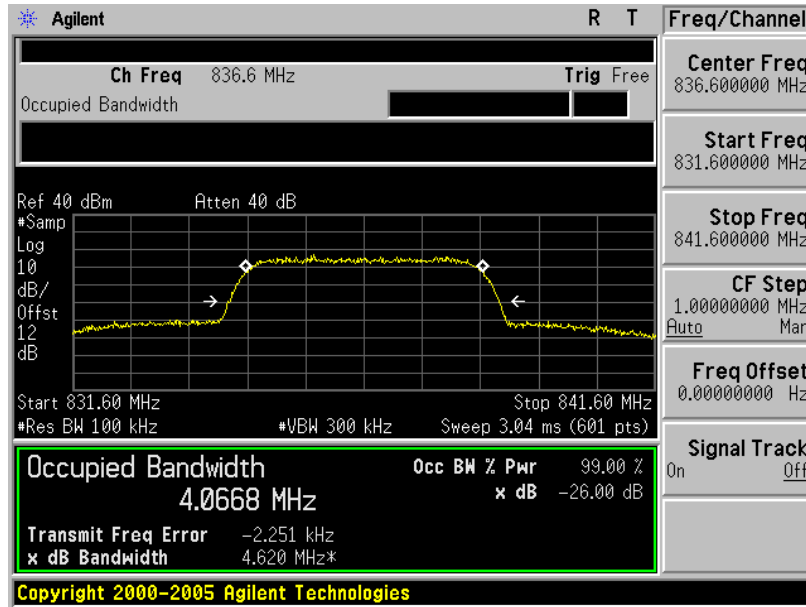


Model Number	PJ46100		
Test Item	Occupied Bandwidth		
Test Mode	Mode 4: WCDMA Band V Link		
Date of Test	02/02/2012	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
4132	826.4	4.0751	RBW:100kHz , VBW:300kHz
4182	836.4	4.0668	RBW:100kHz , VBW:300kHz
4233	846.4	4.0586	RBW:100kHz , VBW:300kHz

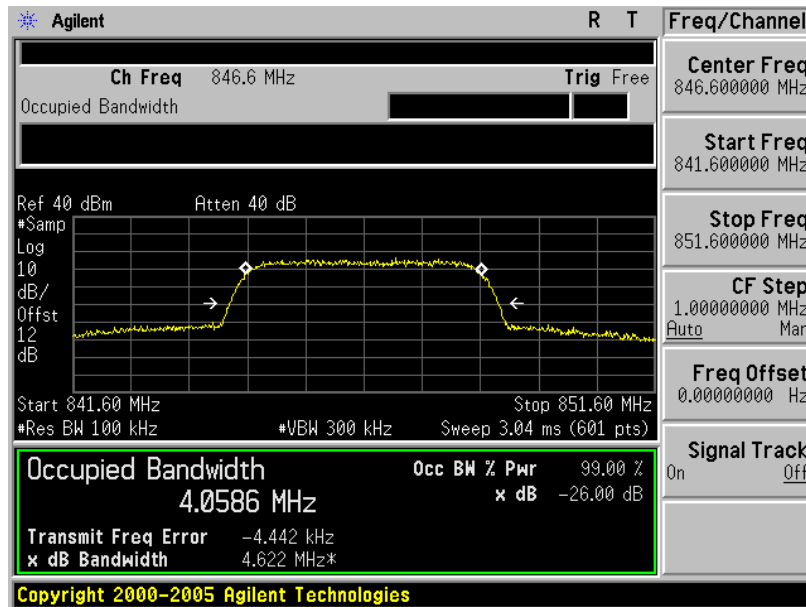
Channel 4132



Channel 4182



Channel 4233

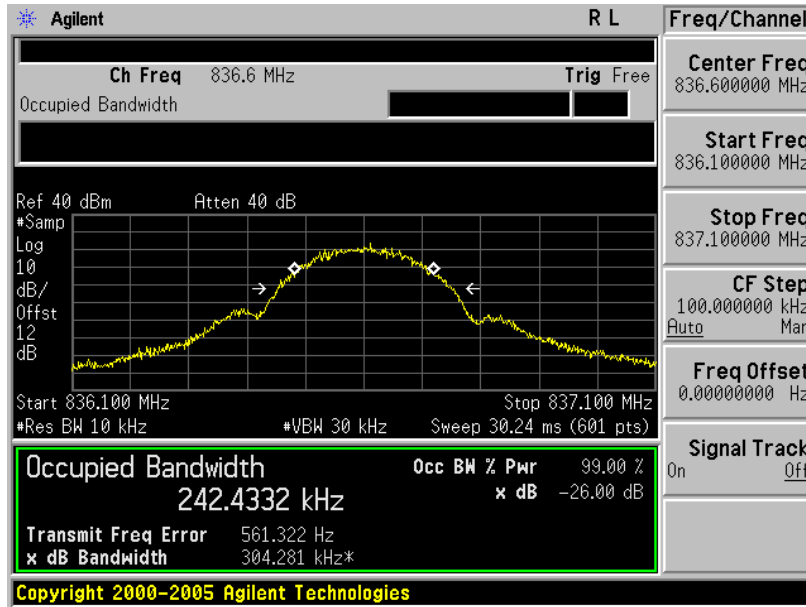


Model Number	PJ46100		
Test Item	Occupied Bandwidth		
Test Mode	Mode 5: EGPRS 850 Link		
Date of Test	02/02/2012	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
128	824.2	242.8321	RBW:10kHz , VBW:30kHz
190	836.4	242.4332	RBW:10kHz , VBW:30kHz
251	848.8	242.6205	RBW:10kHz , VBW:30kHz

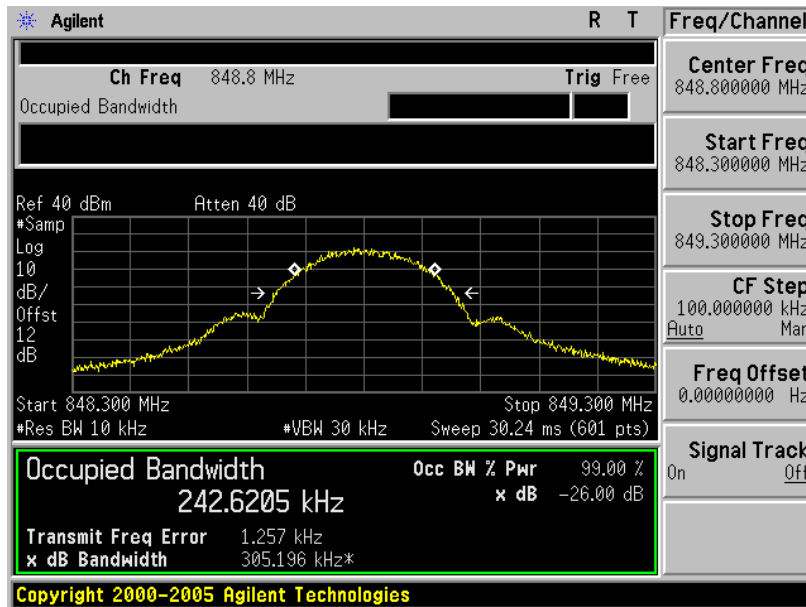
Channel 128



Channel 190



Channel 251

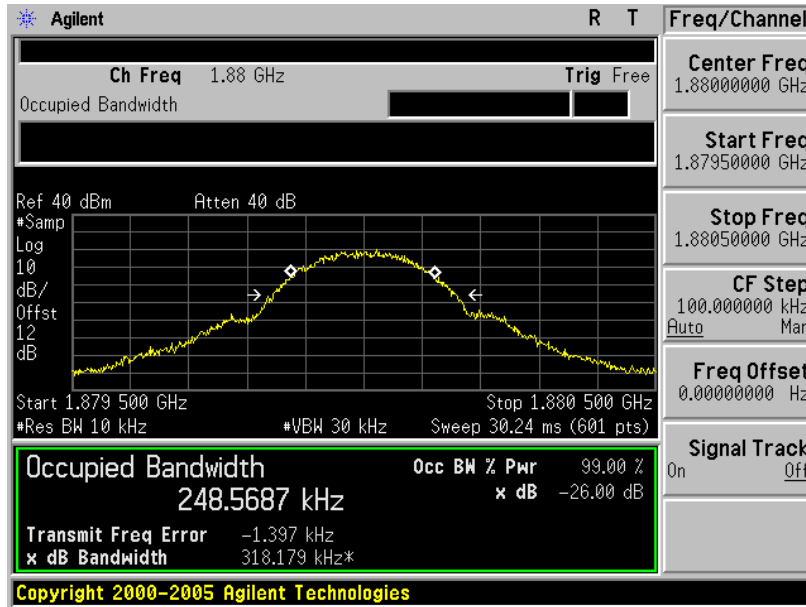


Model Number	PJ46100		
Test Item	Occupied Bandwidth		
Test Mode	Mode 6: EGPRS 1900 Link		
Date of Test	02/02/2012	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
512	1850.20	243.6839	RBW:10kHz , VBW:30kHz
661	1880.00	248.5687	RBW:10kHz , VBW:30kHz
810	1909.80	246.7571	RBW:10kHz , VBW:30kHz

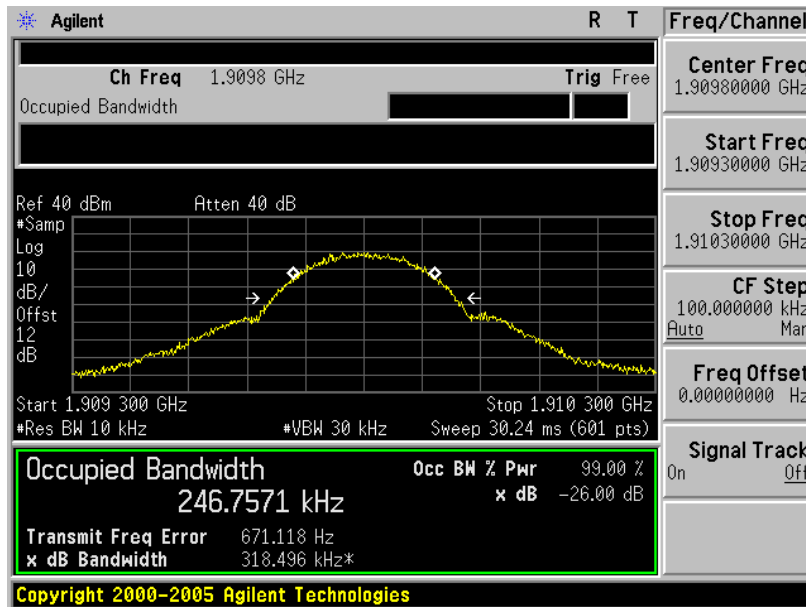
Channel 512



Channel 661



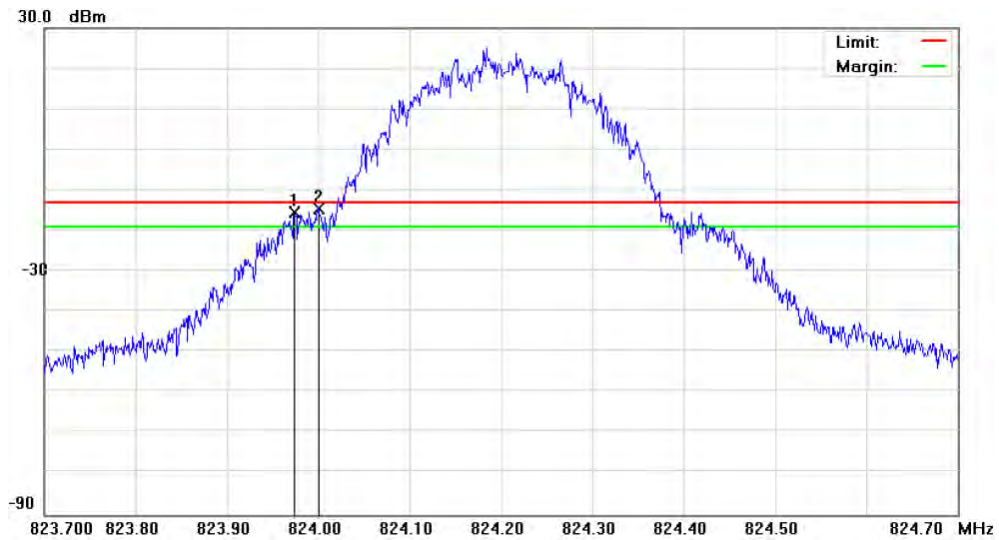
Channel 810



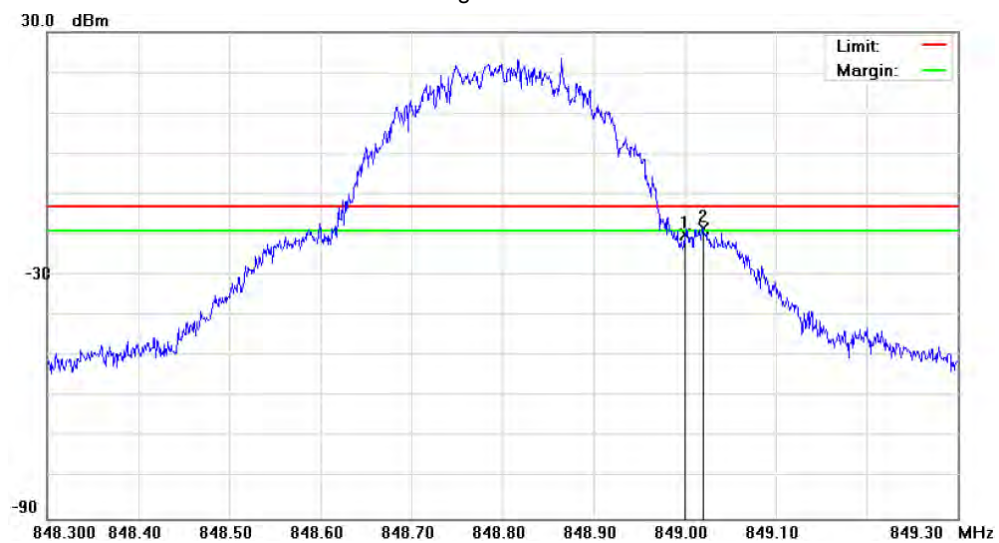
Band Edge

Model Number	PJ46100				
Test Item	Band Edge				
Test Mode	Mode 1: GSM 850 Link				
Date of Test	02/02/2012		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	128	824.0000	-14.60	-13	Pass
Higher	251	849.0000	-20.04	-13	Pass

Lower Band

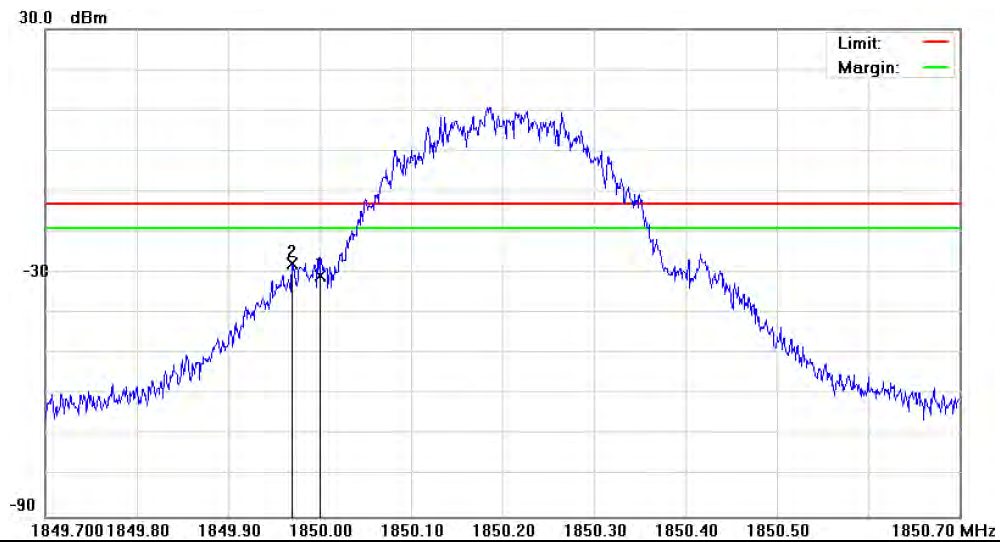


Higher Band

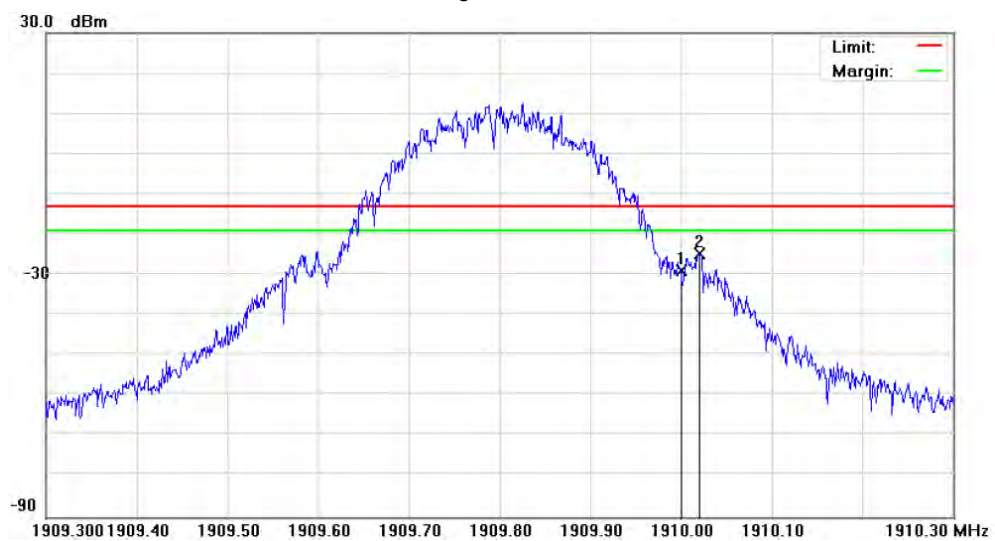


Model Number	PJ46100				
Test Item	Band Edge				
Test Mode	Mode 2: GSM 1900 Link				
Date of Test	02/02/2012		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	512	1850.000	-30.85	-13	Pass
Higher	810	1910.000	-29.04	-13	Pass

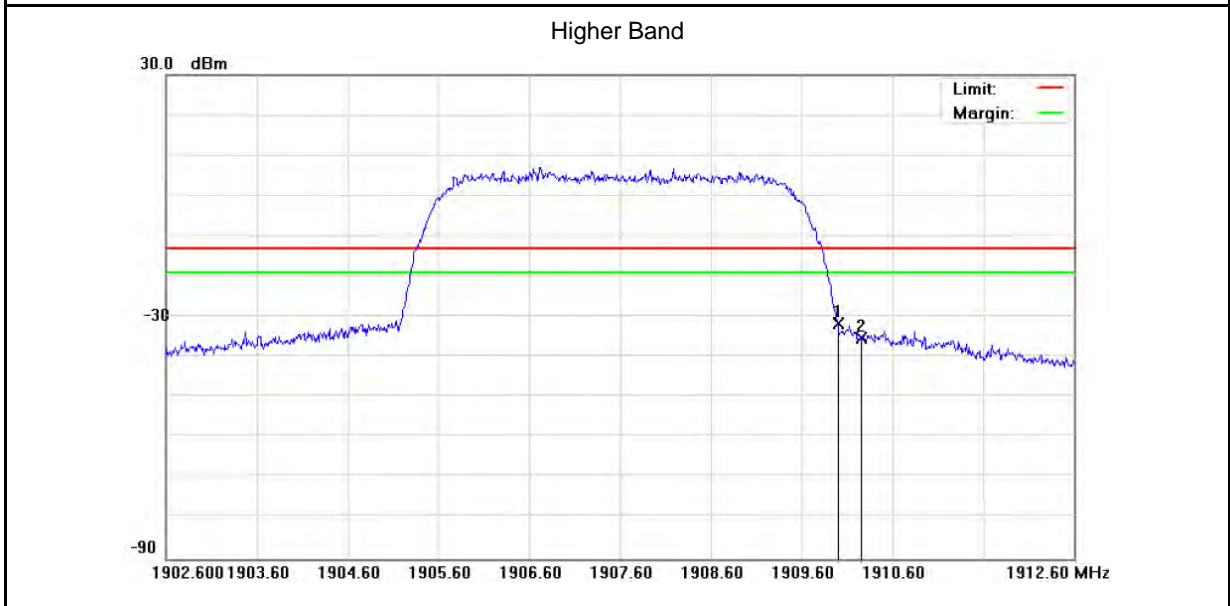
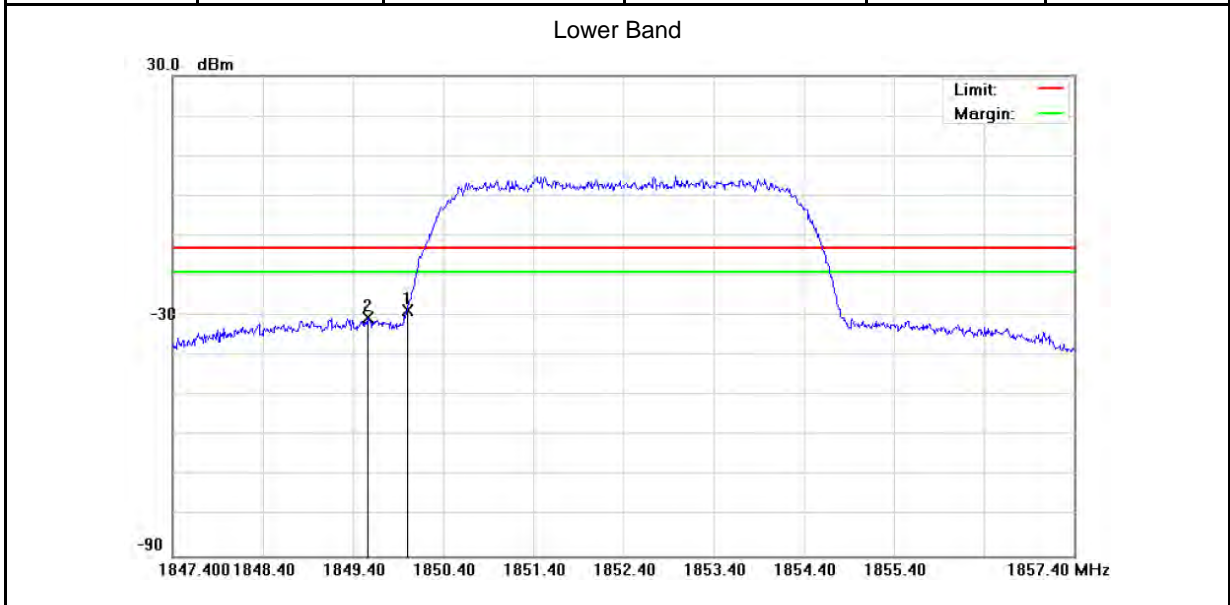
Lower Band



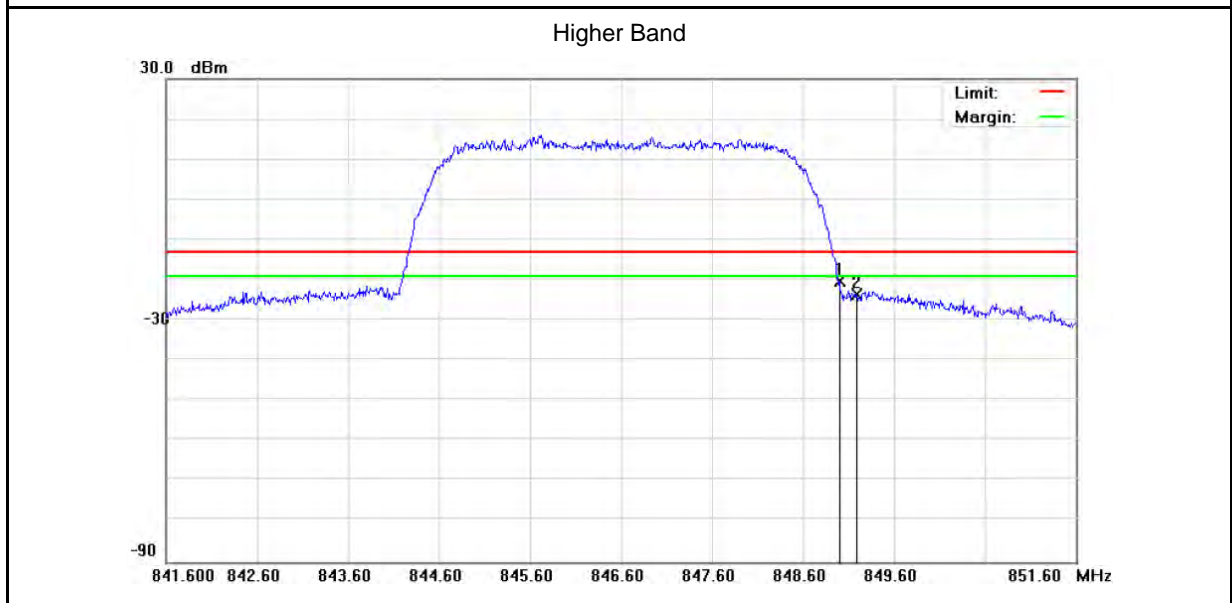
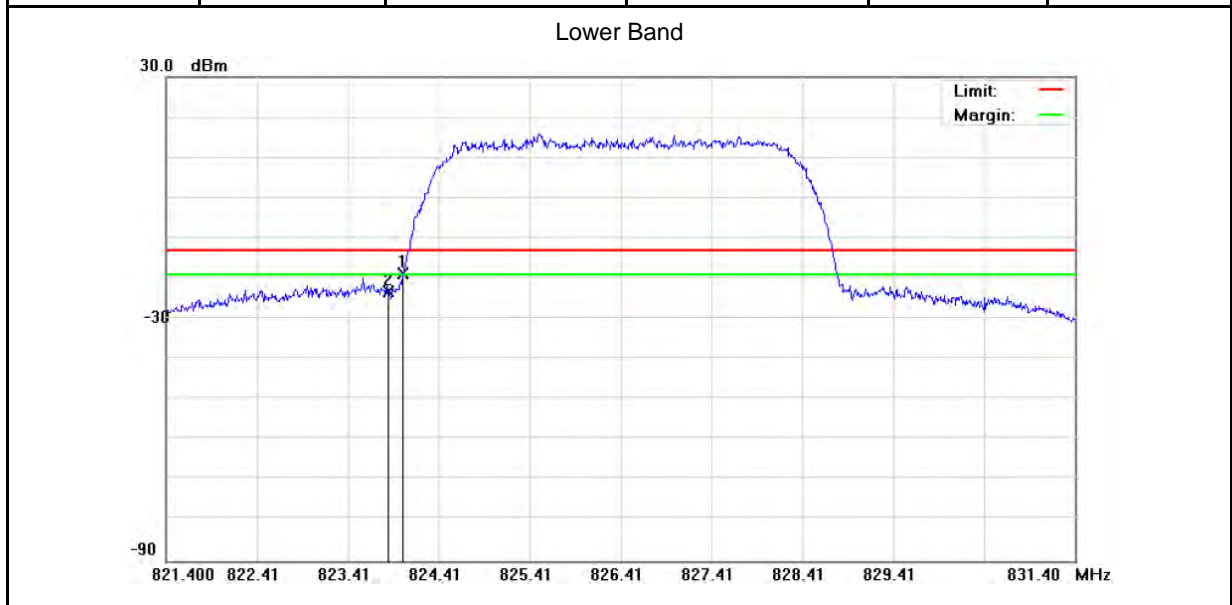
Higher Band



Model Number	PJ46100				
Test Item	Band Edge				
Test Mode	Mode 3: WCDMA Band II Link				
Date of Test	02/02/2012		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	9262	1850.000	-28.52	-13	Pass
Higher	9538	1910.000	-31.53	-13	Pass



Model Number	PJ46100				
Test Item	Band Edge				
Test Mode	Mode 4: WCDMA Band V Link				
Date of Test	02/02/2012		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	4132	824.0000	-18.79	-13	Pass
Higher	4233	849.0000	-20.23	-13	Pass



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

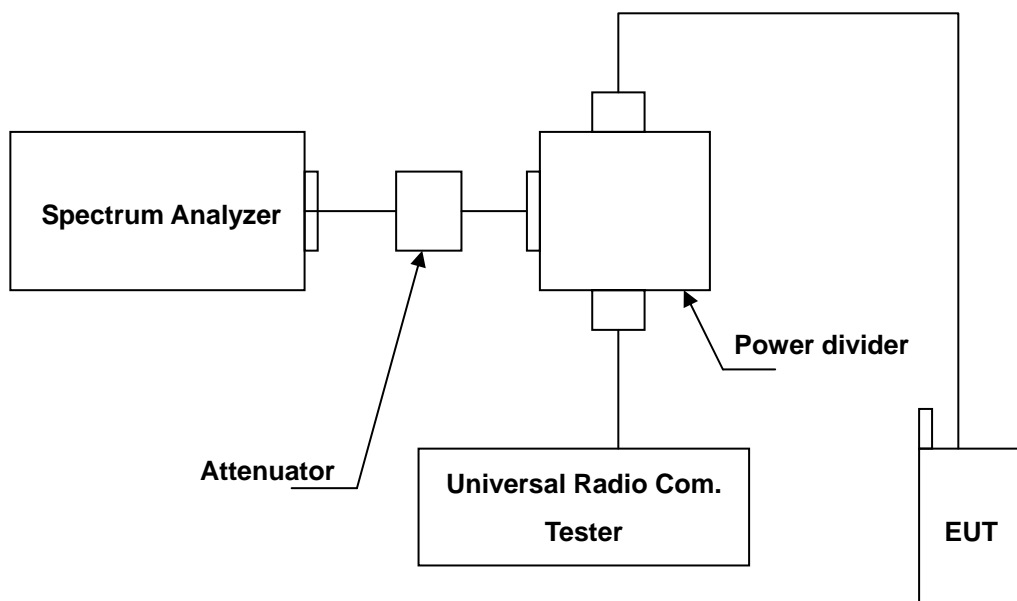
Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/16/2011	(2)
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.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

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

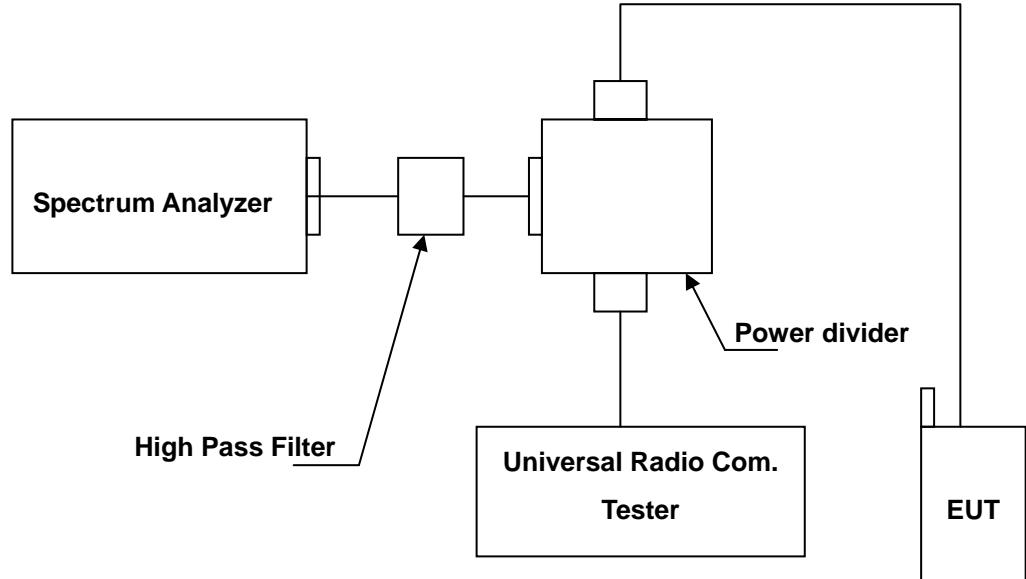
NOTE: N.C.R. = No Calibration Request.

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

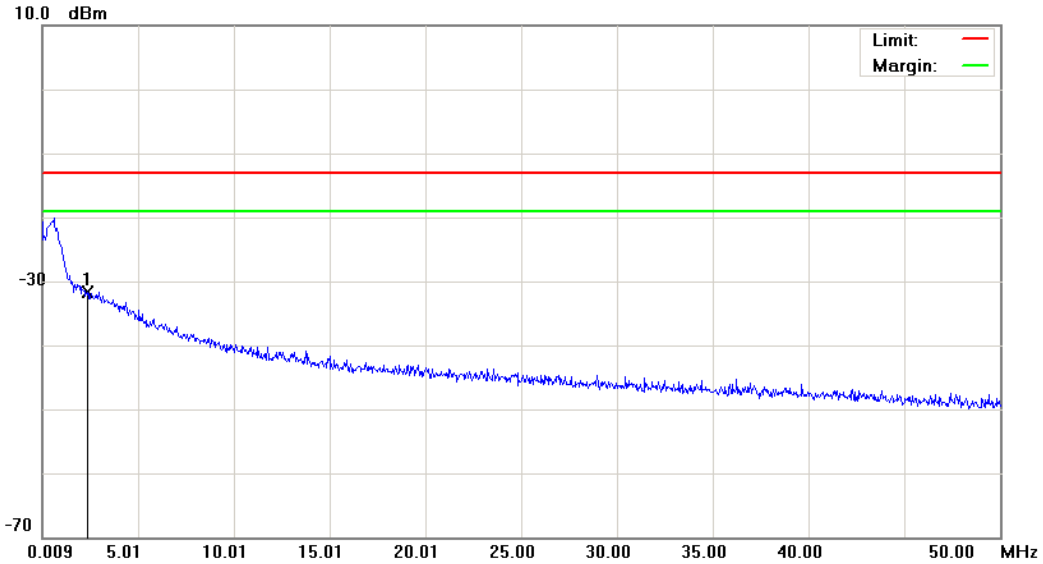
Model Number	PJ46100		
Test Item	Conducted Emission		
Mode	Mode 1: GSM 850 Link Mode 2: GSM 1900 Link Mode 3: WCDMA Band II Link Mode 4: WCDMA Band V Link		
Date of Test	02/02/2012	Test Site	TE02

File: PJ46100(CH128)

Data :#1

Date: 2012-2-2

Time: 下午 02:12:15



Site: : RF Conducted

 Polarization: **Conducted po**

Temperature: 23 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55.2 %

EUT: Smartphone

Distance:

RBW: 1000 kHz VBW: 1000kHz

M/N: PJ46100

Mode: 1

Note:

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2.3586	-62.59	30.92	-31.67	-13.00	-18.67	peak		

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

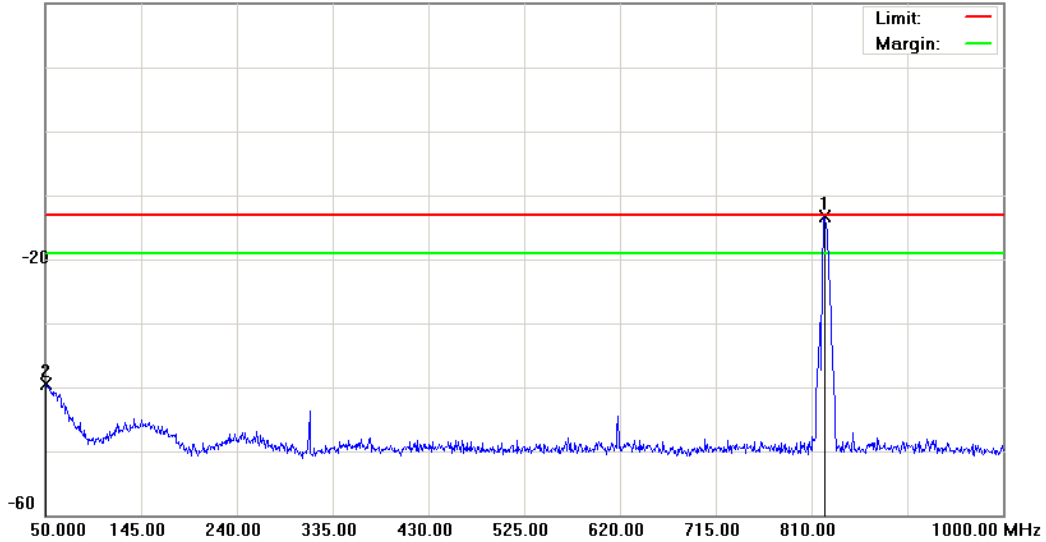
File: PJ46100(CH128)

Data :#2

Date: 2012-2-2

Time: 下午 02:12:39

20.0 dBm



Site: : RF Conducted

 Polarization: *Conducted po*

Temperature: 23 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55.2 %

EUT: Smartphone

Distance:

RBW: 1000 kHz VBW: 1000kHz

M/N: PJ46100

Mode: 1

Note:

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	822.8250	-17.14	3.83	-13.31	-13.00	-0.31	peak			Tx
2		50.0000	-54.17	14.69	-39.48	-13.00	-26.48	peak			

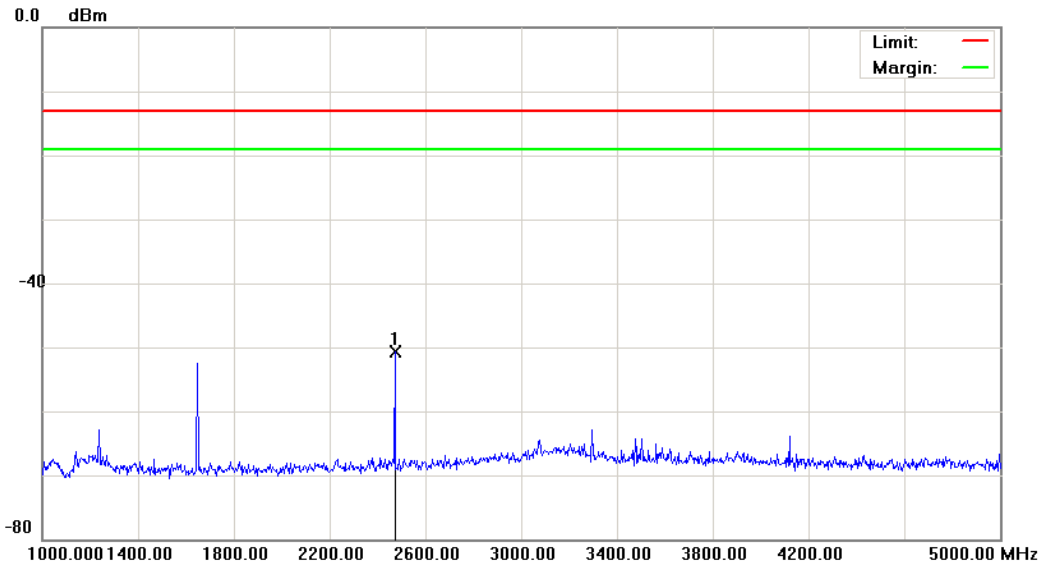
*:Maximum data x:Over limit !:over margin

File: PJ46100(CH128)

Data :#3

Date: 2012-2-2

Time: 下午 03:36:36



Site: : RF Conducted

 Polarization: **Conducted po**

Temperature: 23 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55.2 %

EUT: Smartphone

Distance:

RBW: 1000 kHz VBW: 1000kHz

M/N: PJ46100

Mode: 1

Note:

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2472.000	-55.16	4.45	-50.71	-13.00	-37.71	peak		

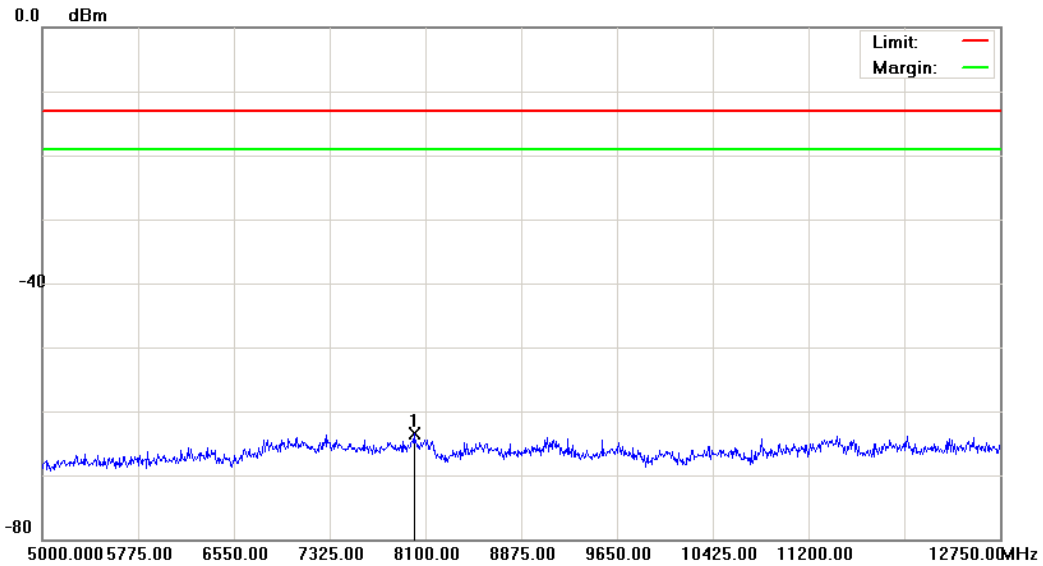
*:Maximum data x:Over limit !:over margin

File: PJ46100(CH128)

Data :#4

Date: 2012-2-2

Time: 下午 03:36:59



Site: : RF Conducted

 Polarization: **Conducted po**

Temperature: 23 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55.2 %

EUT: Smartphone

Distance:

RBW: 1000 kHz VBW: 1000kHz

M/N: PJ46100

Mode: 1

Note:

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	8007.000	-68.95	5.53	-63.42	-13.00	-50.42	peak		

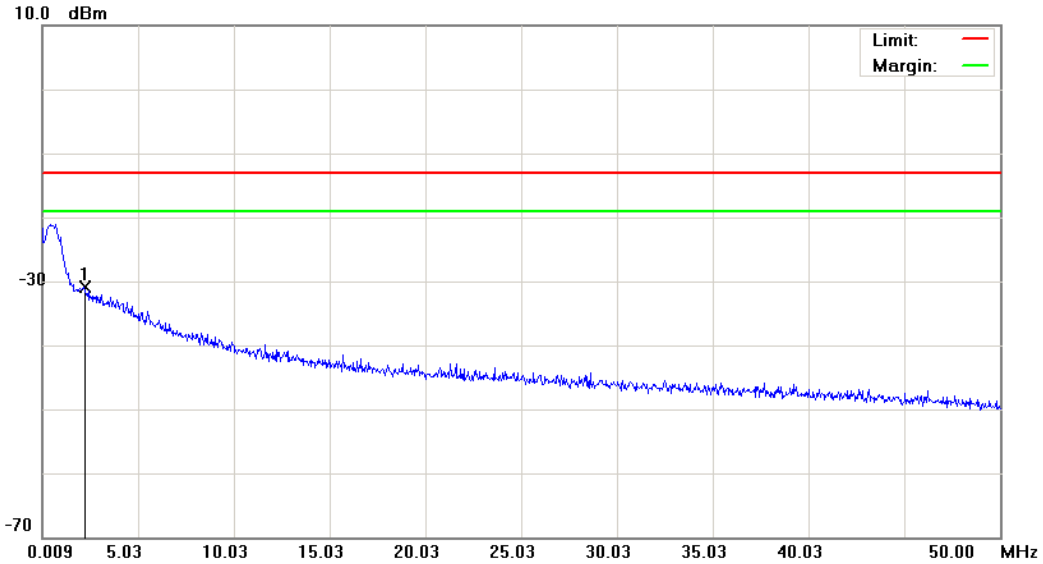
*:Maximum data x:Over limit !:over margin

File: PJ46100(CH190)

Data :#1

Date: 2012-2-2

Time: 下午 02:14:54



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 1		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2.1836	-62.25	31.34	-30.91	-13.00	-17.91	peak		

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

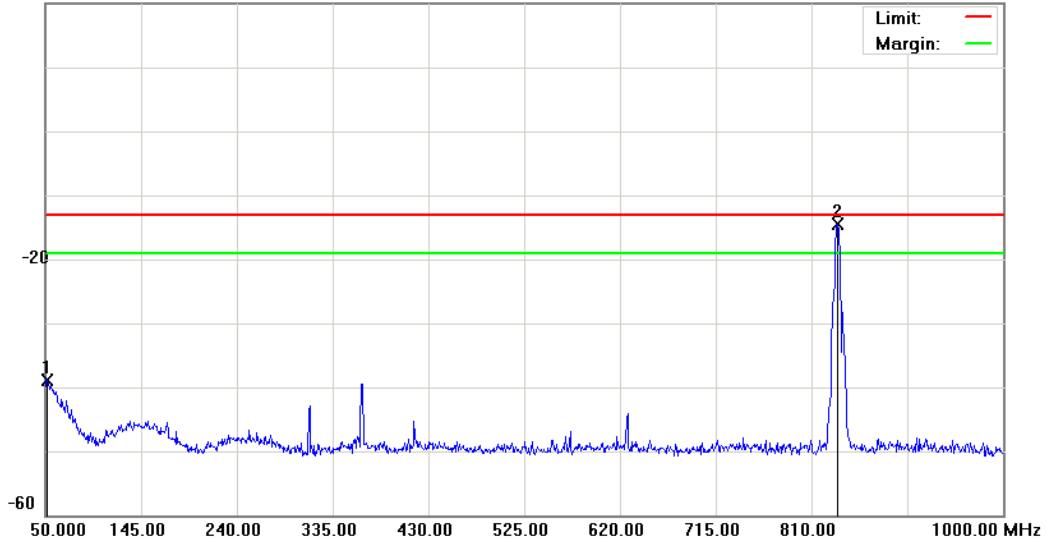
File: PJ46100(CH190)

Data :#2

Date: 2012-2-2

Time: 下午 02:15:19

20.0 dBm



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 1		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		51.9000	-53.19	14.36	-38.83	-13.00	-25.83	peak			
2	*	835.1750	-18.49	3.95	-14.54	-13.00	-1.54	peak			Tx

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

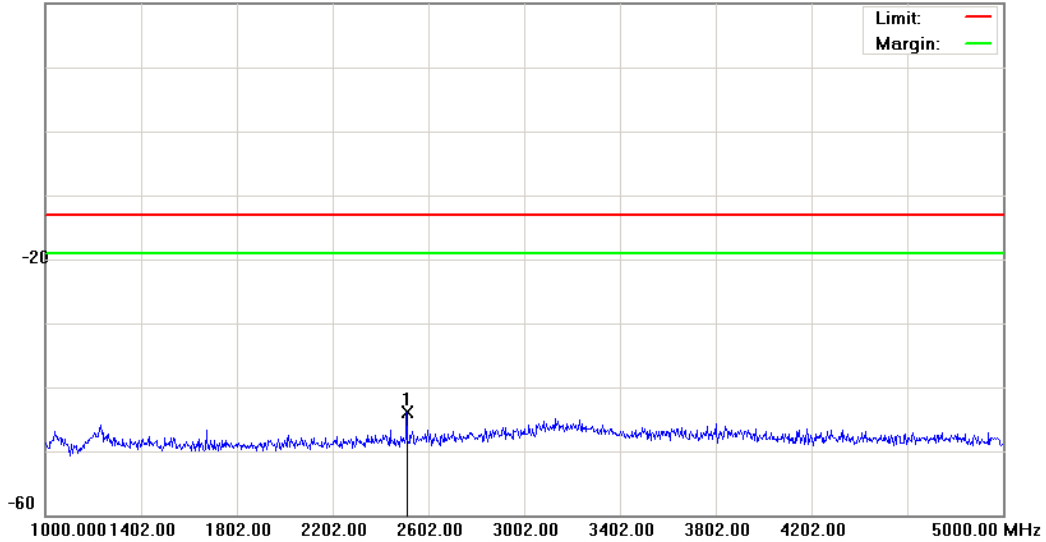
File: PJ46100(CH190)

Data :#3

Date: 2012-2-2

Time: 下午 03:37:50

20.0 dBm



Site: : RF Conducted

 Polarization: **Conducted po**

Temperature: 23 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55.2 %

EUT: Smartphone

Distance:

RBW: 1000 kHz VBW: 1000kHz

M/N: PJ46100

Mode: 1

Note:

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2510.000	-48.30	4.36	-43.94	-13.00	-30.94	peak		

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

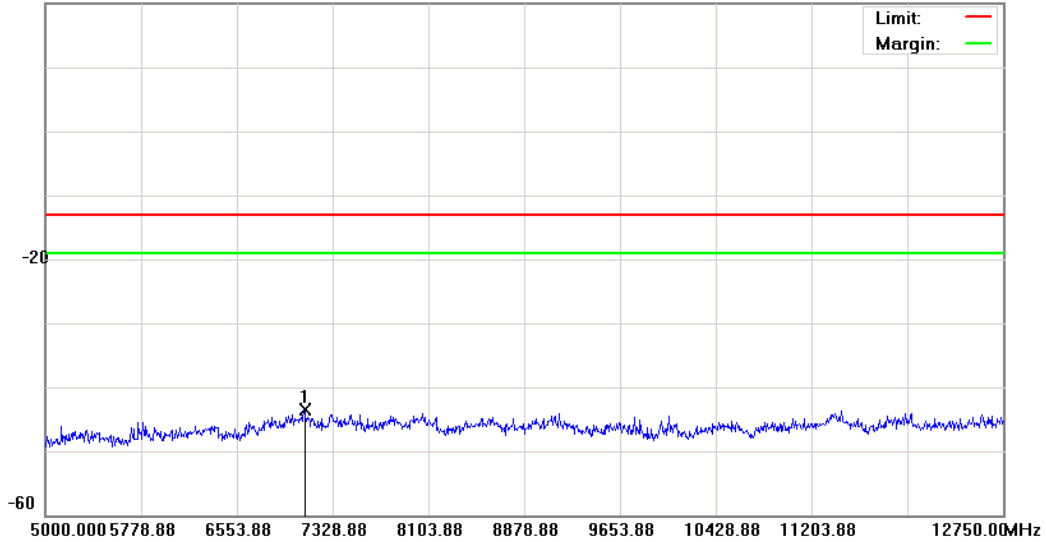
File: PJ46100(CH190)

Data :#4

Date: 2012-2-2

Time: 下午 03:38:13

20.0 dBm



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 1		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	7096.375	-48.47	5.07	-43.40	-13.00	-30.40	peak		

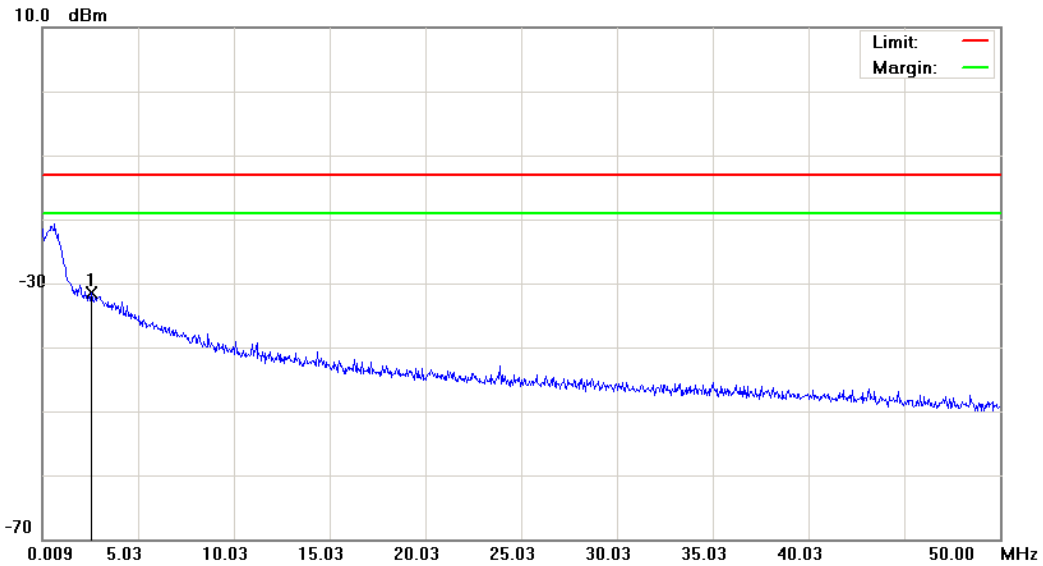
*:Maximum data x:Over limit !:over margin

File: PJ46100(CH251)

Data :#1

Date: 2012-2-2

Time: 下午 03:03:54



Site: : RF Conducted

 Polarization: **Conducted po**

Temperature: 23 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55.2 %

EUT: Smartphone

Distance:

RBW: 1000 kHz VBW: 1000kHz

M/N: PJ46100

Mode: 1

Note:

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	2.5584	-62.19	30.63	-31.56	-13.00	-18.56	peak			

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

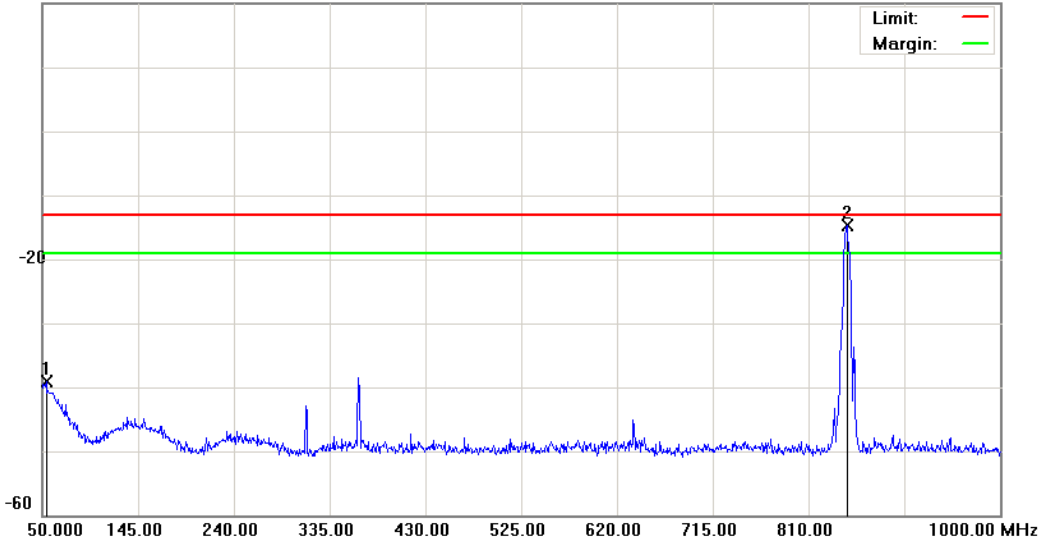
File: PJ46100(CH251)

Data :#2

Date: 2012-2-2

Time: 下午 03:04:19

20.0 dBm



Site: : RF Conducted

 Polarization: *Conducted po*

Temperature: 23 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55.2 %

EUT: Smartphone

Distance:

RBW: 1000 kHz VBW: 1000kHz

M/N: PJ46100

Mode: 1

Note:

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		54.2750	-53.13	13.94	-39.19	-13.00	-26.19	peak			
2	*	848.0000	-18.72	3.98	-14.74	-13.00	-1.74	peak			Tx

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

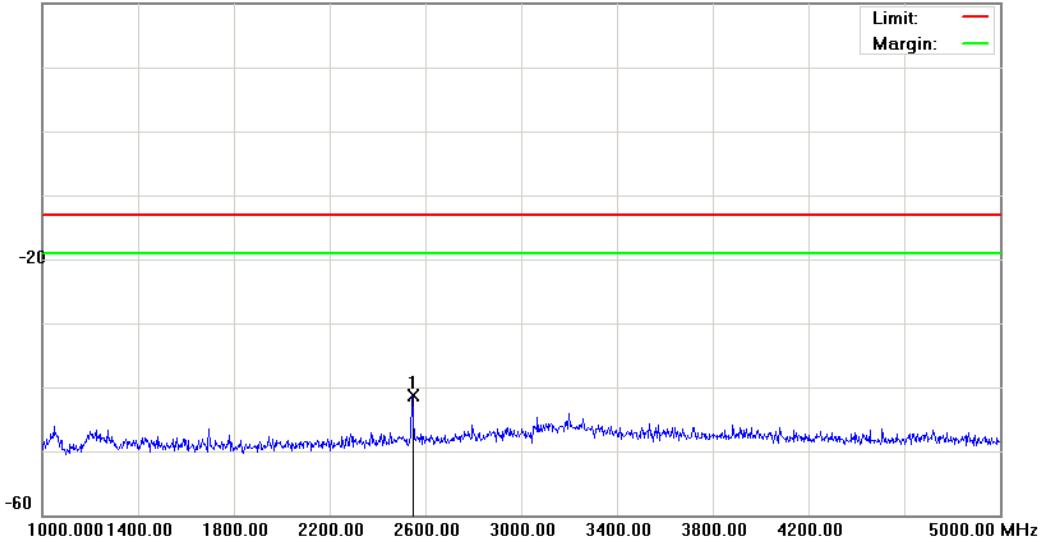
File: PJ46100(CH251)

Data :#3

Date: 2012-2-2

Time: 下午 03:56:25

20.0 dBm



Site: : RF Conducted

 Polarization: **Conducted po**

Temperature: 23 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55.2 %

EUT: Smartphone

Distance:

RBW: 1000 kHz VBW: 1000kHz

M/N: PJ46100

Mode: 1

Note:

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2546.000	-45.77	4.45	-41.32	-13.00	-28.32	peak		

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

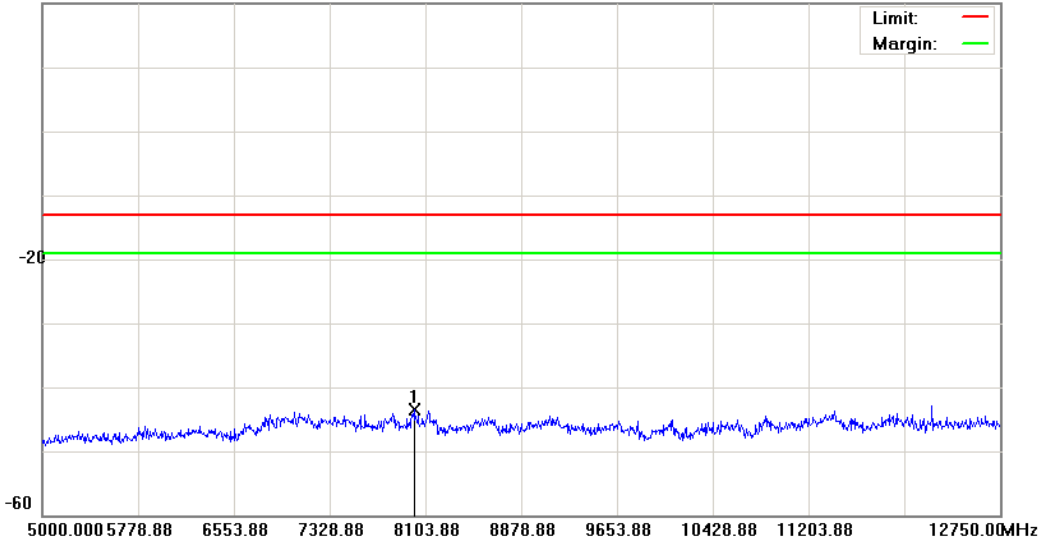
File: PJ46100(CH251)

Data :#4

Date: 2012-2-2

Time: 下午 03:56:48

20.0 dBm

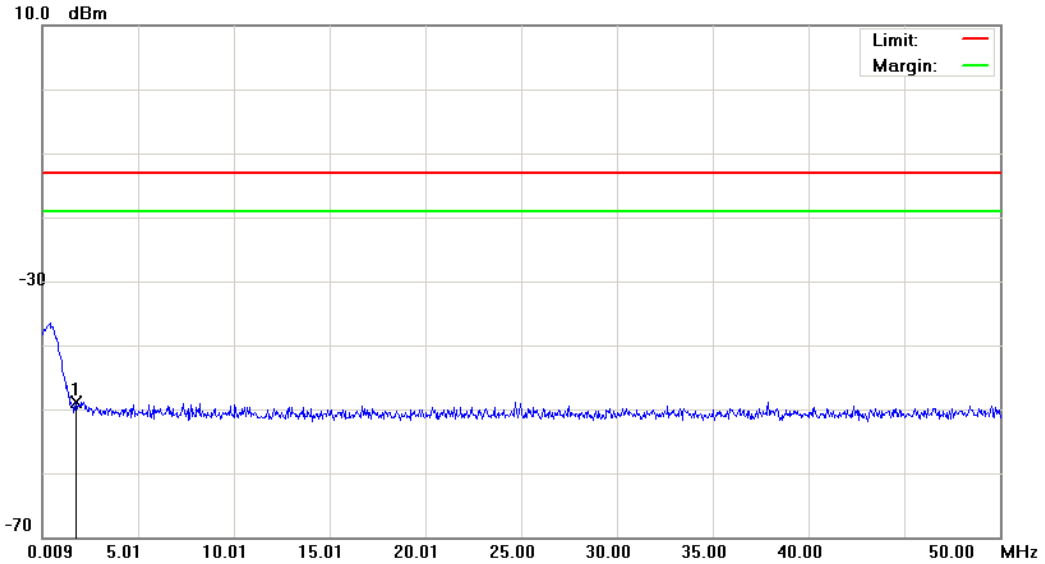


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 1		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	8010.875	-48.92	5.50	-43.42	-13.00	-30.42	peak		

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

File: PJ46100(CH512) Data :#1 Date: 2012-2-2 Time: 上午 11:20:16

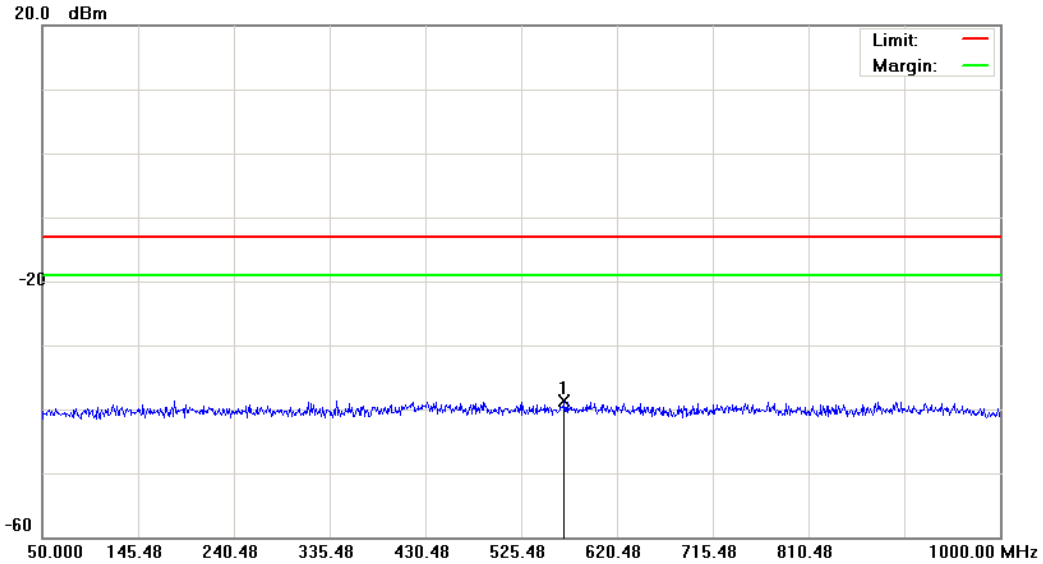


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 2		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	1.7586	-61.44	12.63	-48.81	-13.00	-35.81	peak			

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

File: PJ46100(CH512) Data :#2 Date: 2012-2-2 Time: 上午 11:20:41



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 2		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	567.7500	-51.82	13.13	-38.69	-13.00	-25.69	peak		

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

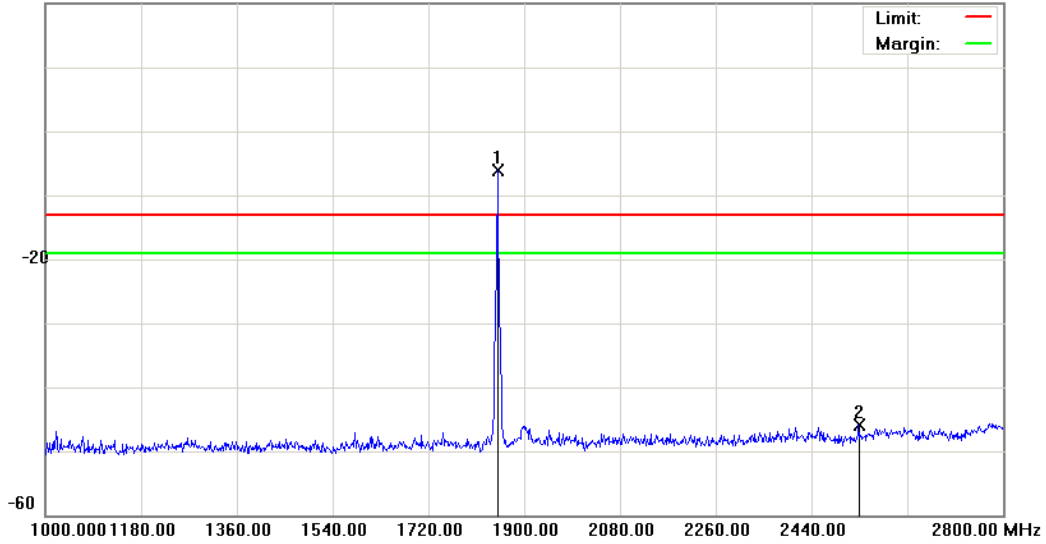
File: PJ46100(CH512)

Data :#3

Date: 2012-2-2

Time: 下午 01:08:41

20.0 dBm



Site: : RF Conducted

 Polarization: **Conducted po**

Temperature: 23 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55.2 %

EUT: Smartphone

Distance:

RBW: 1000 kHz VBW: 1000kHz

M/N: PJ46100

Mode: 2

Note:

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	1850.500	-10.40	4.26	-6.14	-13.00	6.86	peak			Tx
2		2529.100	-50.63	4.70	-45.93	-13.00	-32.93	peak			

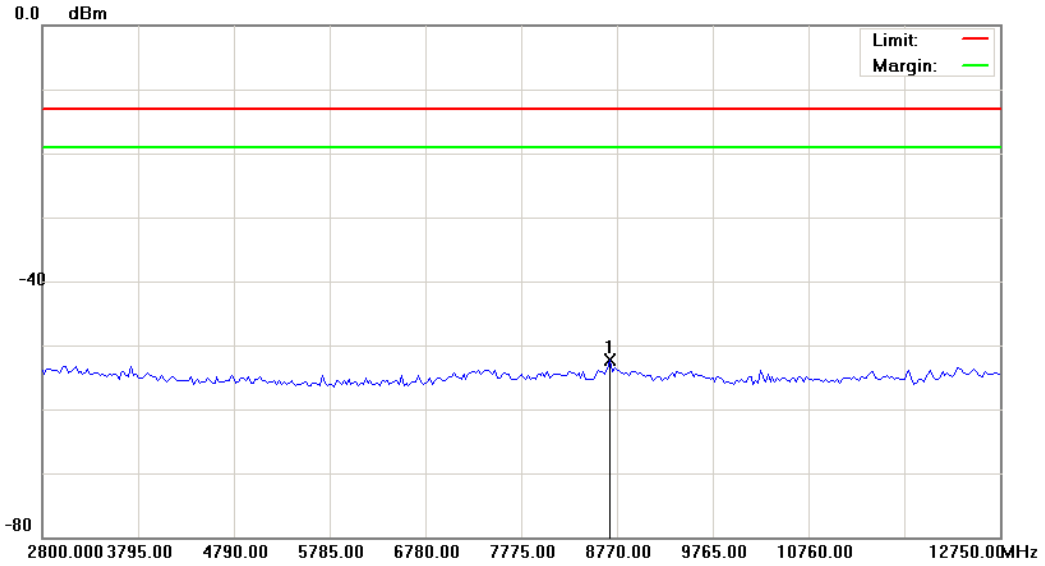
*:Maximum data x:Over limit !:over margin

File: PJ46100(CH512)

Data :#4

Date: 2012-2-2

Time: 下午 04:02:41

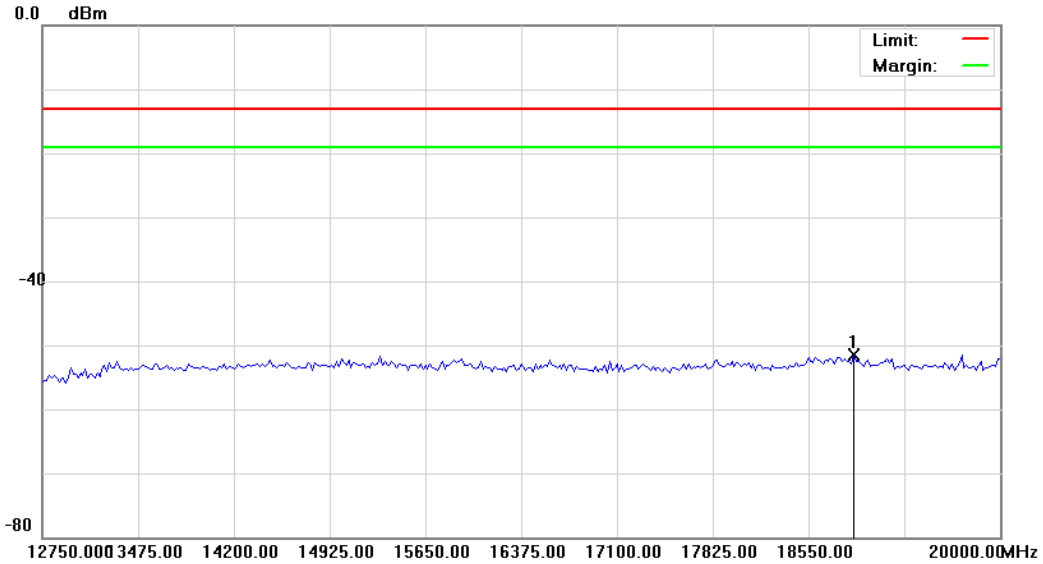


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 2		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	8695.375	-57.66	5.37	-52.29	-13.00	-39.29	peak			

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

File: PJ46100(CH512) Data :#5 Date: 2012-2-2 Time: 下午 04:03:03



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 2		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	18894.375	-58.53	7.12	-51.41	-13.00	-38.41	peak		

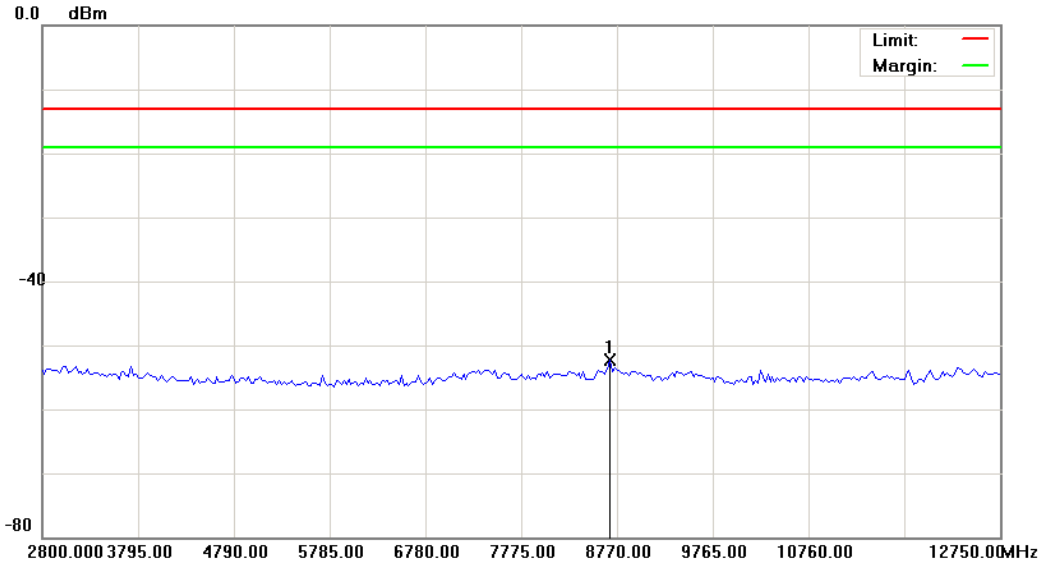
*:Maximum data x:Over limit !:over margin

File: PJ46100(CH512)

Data :#4

Date: 2012-2-2

Time: 下午 04:02:41

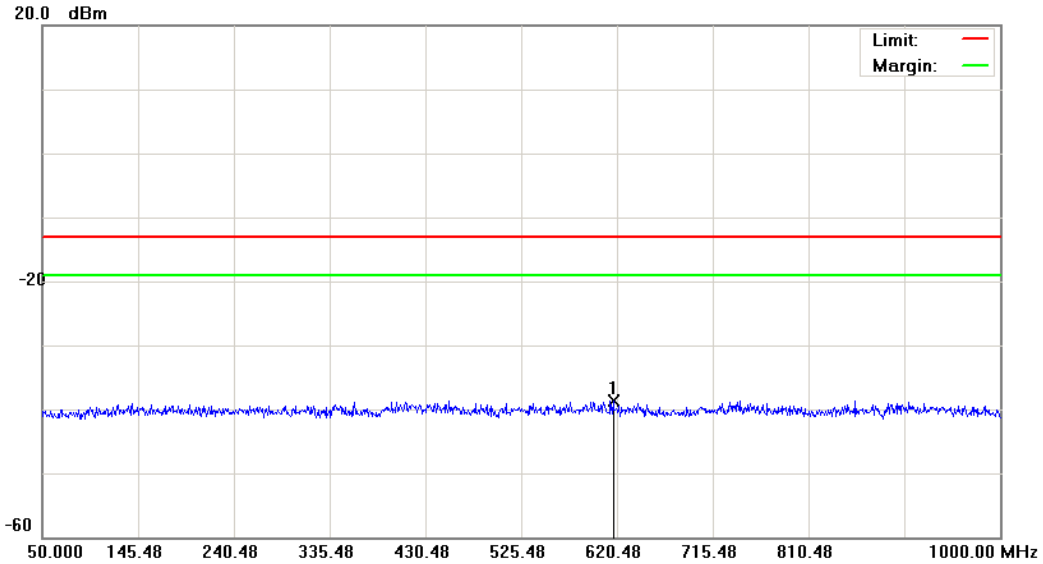


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 2		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	8695.375	-57.66	5.37	-52.29	-13.00	-39.29	peak		

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

File: PJ46100(CH661) Data :#2 Date: 2012-2-2 Time: 上午 11:22:17



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 2		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	616.2000	-51.73	13.12	-38.61	-13.00	-25.61	peak		

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

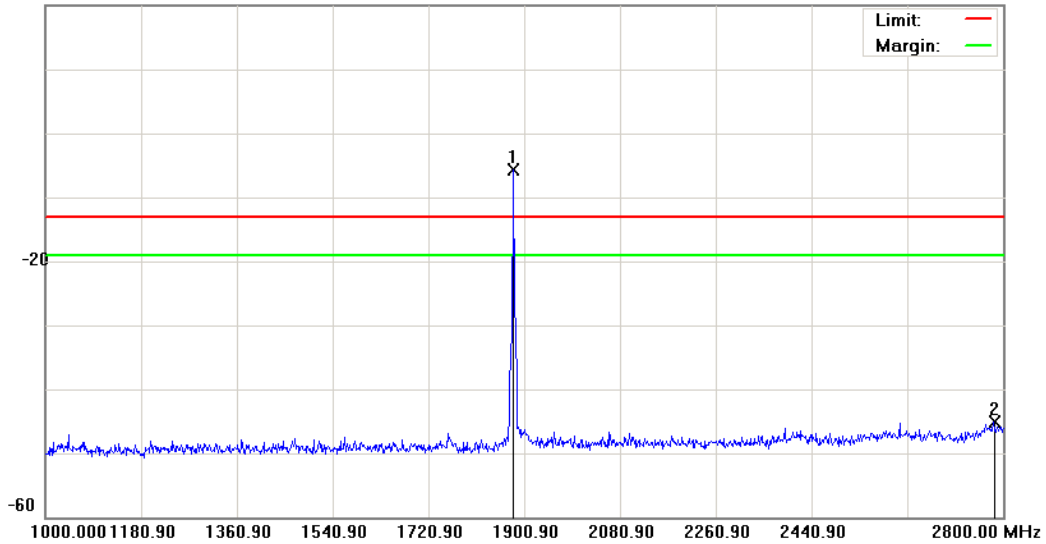
File: PJ46100(CH661)

Data :#3

Date: 2012-2-2

Time: 下午 01:10:15

20.0 dBm



Site: : RF Conducted

 Polarization: **Conducted po**

Temperature: 23 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55.2 %

EUT: Smartphone

Distance:

RBW: 1000 kHz VBW: 1000kHz

M/N: PJ46100

Mode: 2

Note:

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	1880.200	-10.28	4.65	-5.63	-13.00	7.37	peak			Tx
2		2782.900	-51.01	5.88	-45.13	-13.00	-32.13	peak			

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

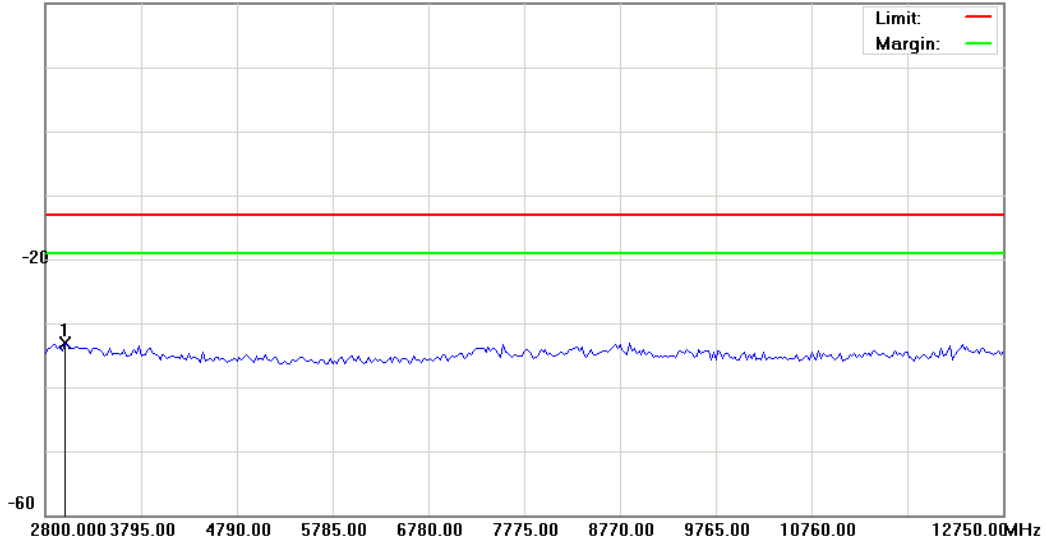
File: PJ46100(CH661)

Data :#4

Date: 2012-2-2

Time: 下午 04:04:14

20.0 dBm



Site: : RF Conducted

 Polarization: **Conducted po**

Temperature: 23 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55.2 %

EUT: Smartphone

Distance:

RBW: 1000 kHz VBW: 1000kHz

M/N: PJ46100

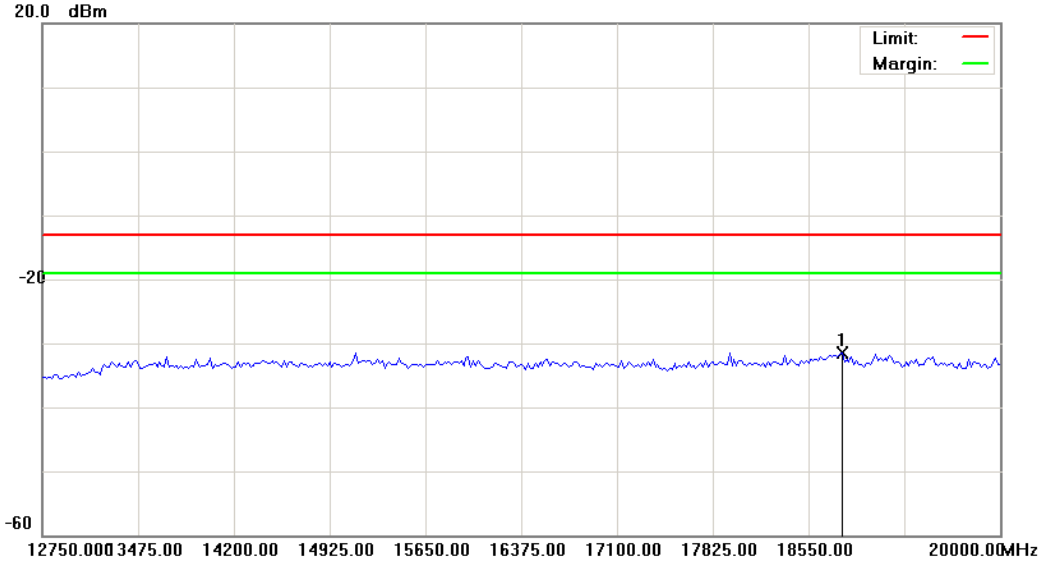
Mode: 2

Note:

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2999.000	-38.60	5.48	-33.12	-13.00	-20.12	peak		

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

File: PJ46100(CH661) Data :#5 Date: 2012-2-2 Time: 下午 04:04:37



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 2		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	18803.750	-38.52	7.10	-31.42	-13.00	-18.42	peak		

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

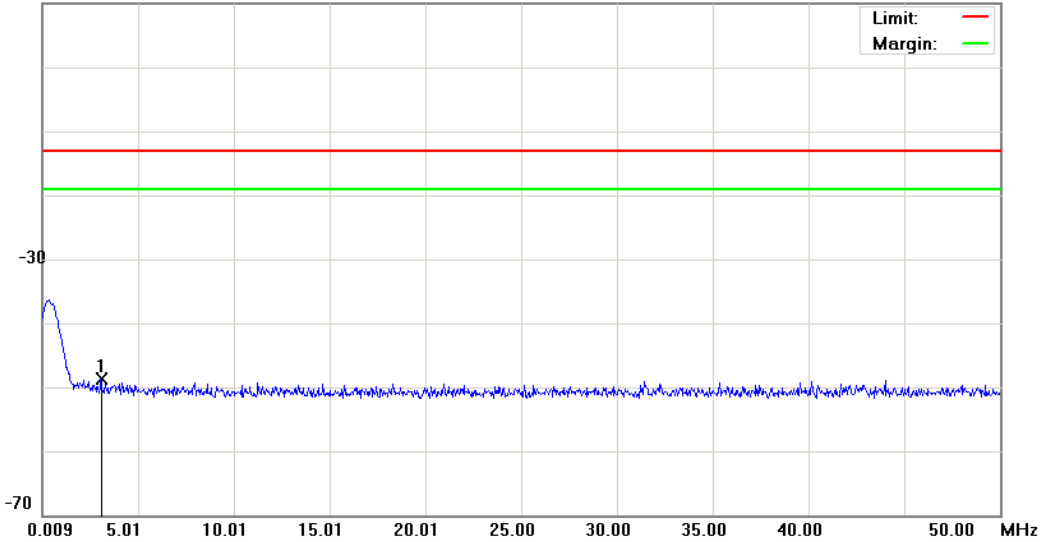
File: PJ46100(CH810)

Data :#1

Date: 2012-2-2

Time: 上午 11:34:29

10.0 dBm



Site: : RF Conducted

 Polarization: *Conducted po*

Temperature: 23 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55.2 %

EUT: Smartphone

Distance:

RBW: 1000 kHz VBW: 1000kHz

M/N: PJ46100

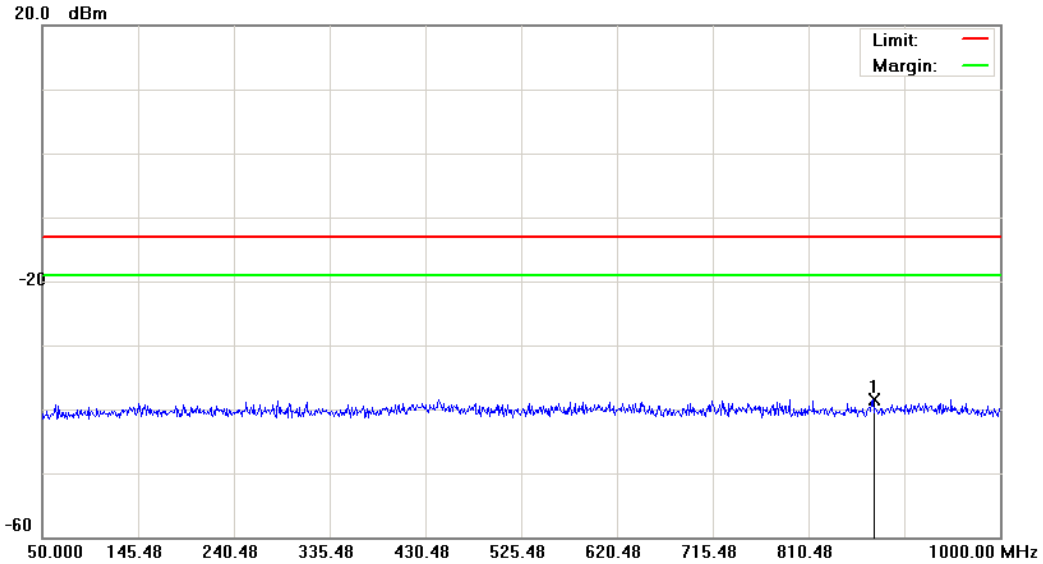
Mode: 2

Note:

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	3.0834	-61.78	13.01	-48.77	-13.00	-35.77	peak		

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

File: PJ46100(CH810) Data :#2 Date: 2012-2-2 Time: 上午 11:34:53



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 2		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	874.1250	-51.74	13.27	-38.47	-13.00	-25.47	peak		

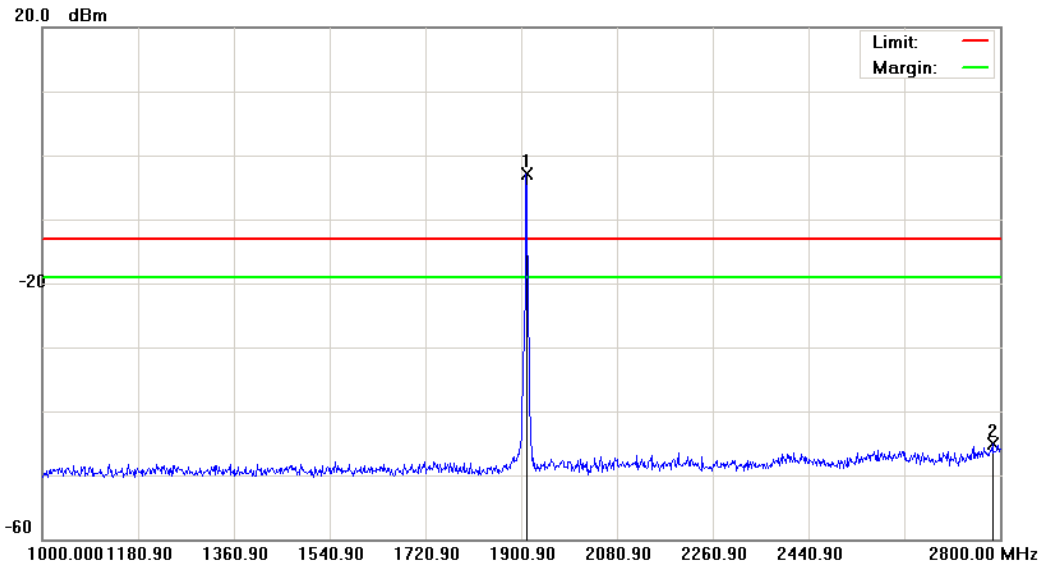
*:Maximum data x:Over limit !:over margin

File: PJ46100(CH810)

Data :#3

Date: 2012-2-2

Time: 下午 01:12:54

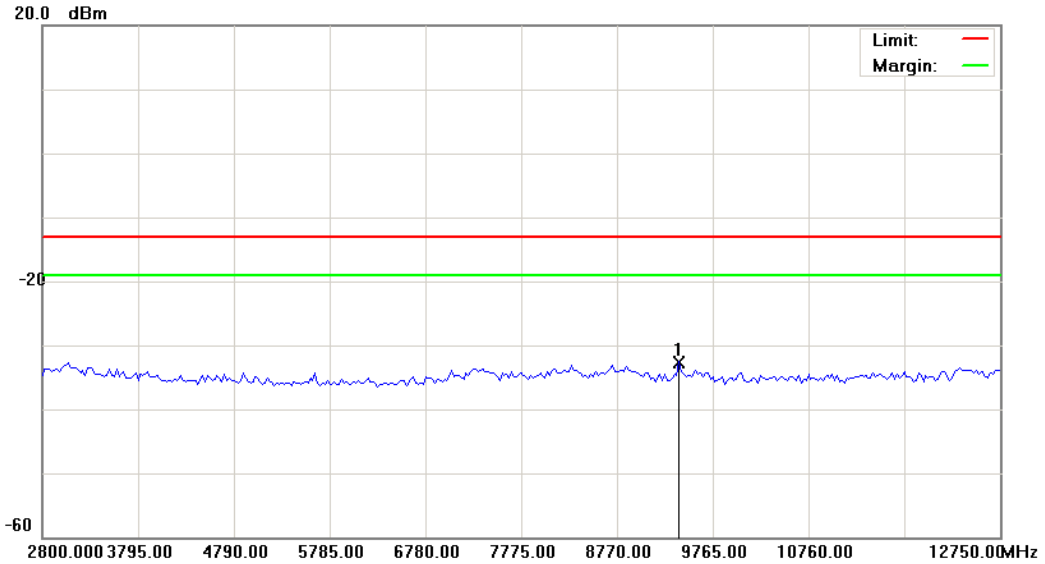


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 2		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	1909.900	-8.53	5.71	-2.82	-13.00	10.18	peak			Tx
2		2785.600	-50.90	5.89	-45.01	-13.00	-32.01	peak			

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

File: PJ46100(CH810) Data :#4 Date: 2012-2-2 Time: 下午 04:07:23



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 2		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	9416.750	-38.27	5.67	-32.60	-13.00	-19.60	peak		

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

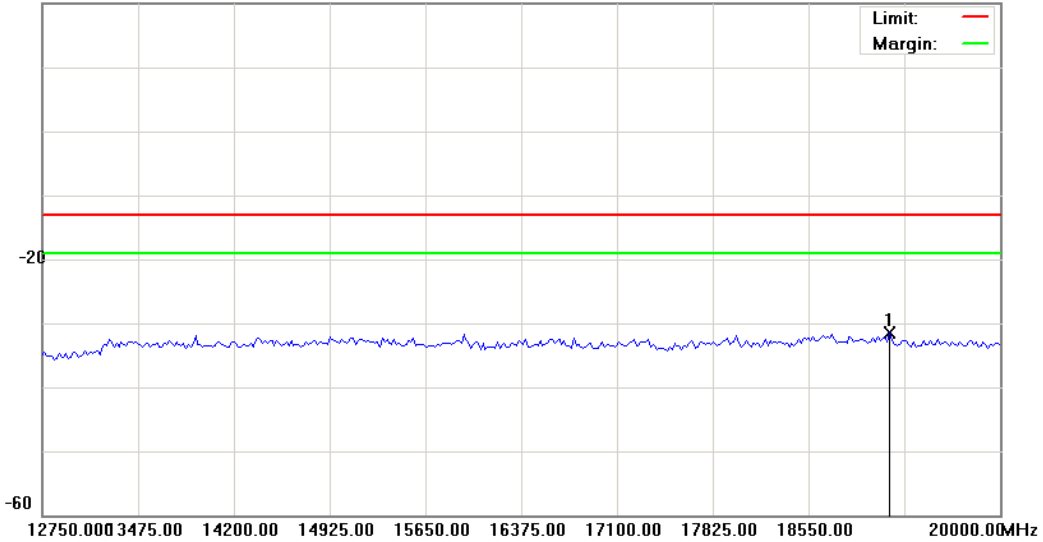
File: PJ46100(CH810)

Data :#5

Date: 2012-2-2

Time: 下午 04:07:45

20.0 dBm

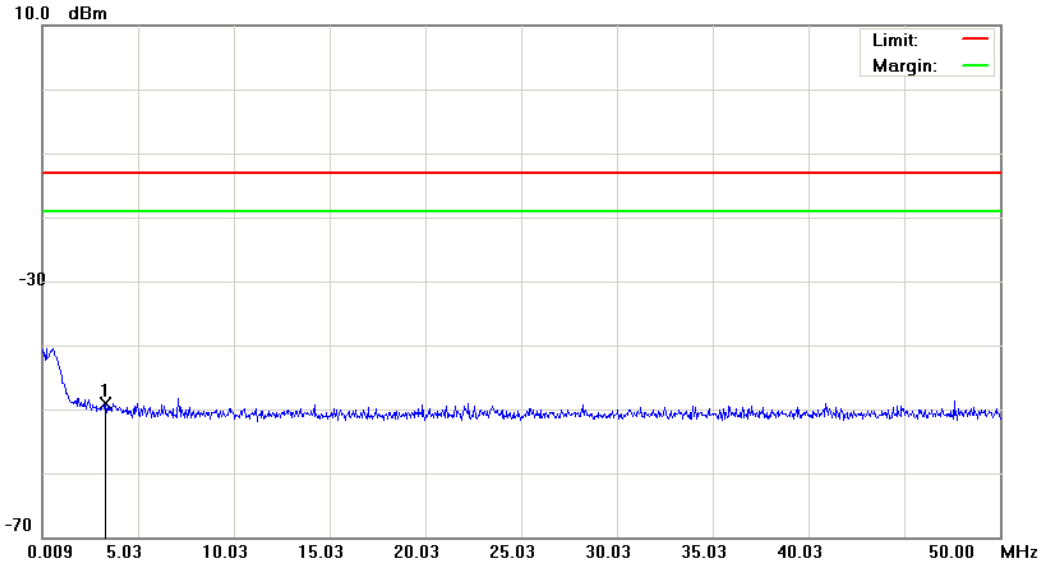


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 2		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	19166.250	-38.75	7.20	-31.55	-13.00	-18.55	peak			

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

File: PJ46100(CH9262) Data :#1 Date: 2012-2-2 Time: 下午 01:18:39

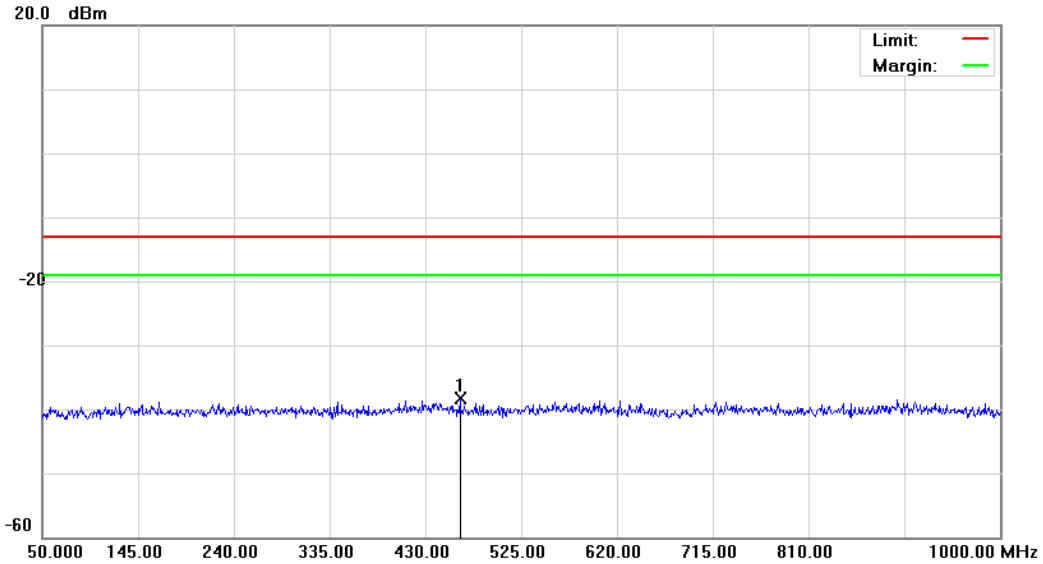


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	3.3083	-62.11	13.09	-49.02	-13.00	-36.02	peak		

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

File: PJ46100(CH9262) Data :#2 Date: 2012-2-2 Time: 下午 01:19:03

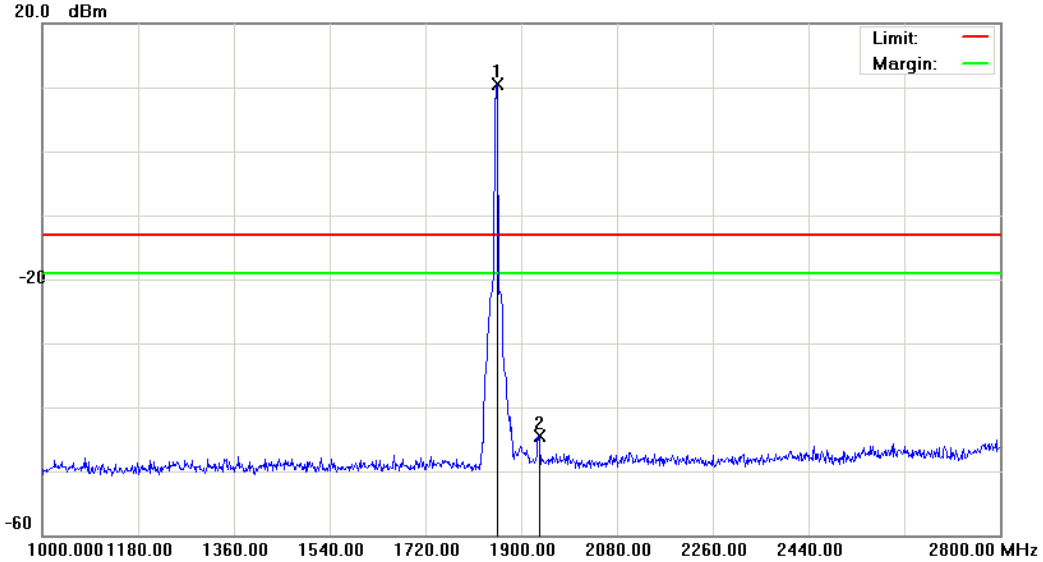


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	464.2000	-51.48	13.19	-38.29	-13.00	-25.29	peak		

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

File: PJ46100(CH9262) Data :#3 Date: 2012-2-2 Time: 下午 01:49:25

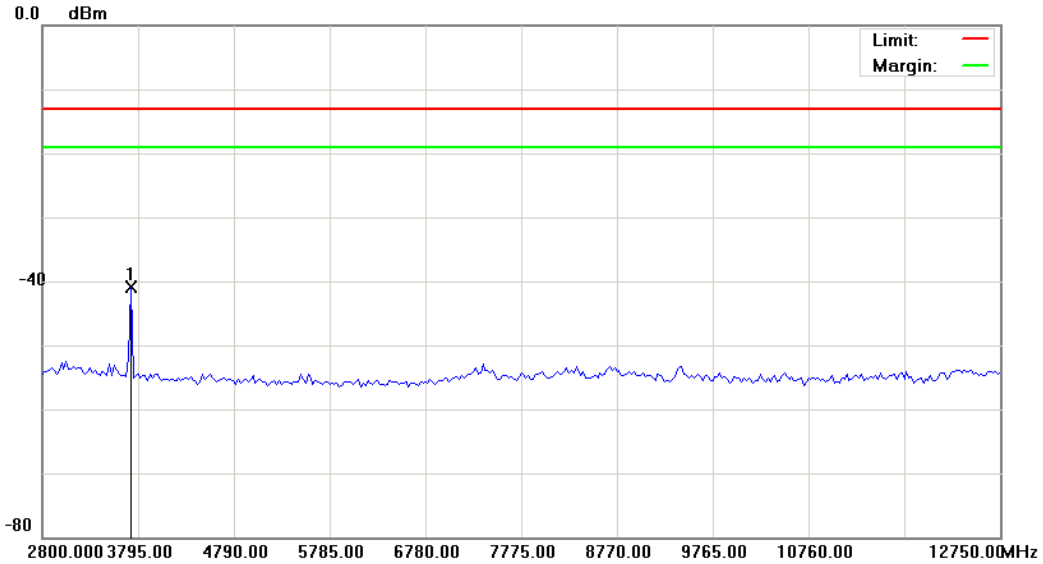


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	1854.100	6.24	4.28	10.52	-13.00	23.52	peak			Tx
2		1933.300	-49.16	4.66	-44.50	-13.00	-31.50	peak			

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

File: PJ46100(CH9262) Data :#4 Date: 2012-2-2 Time: 下午 04:09:19

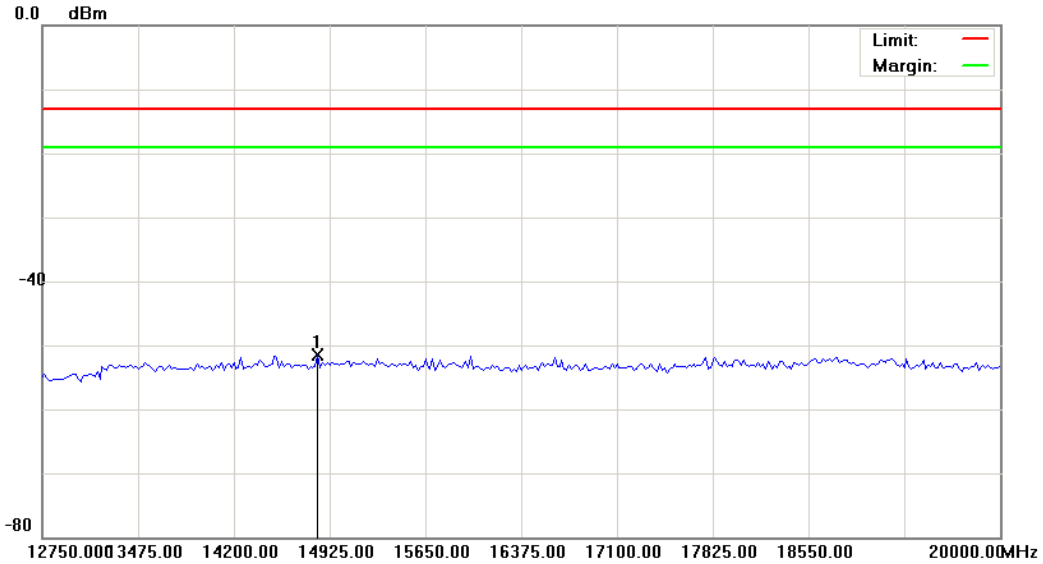


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	3720.375	-45.73	4.88	-40.85	-13.00	-27.85	peak			

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

File: PJ46100(CH9262) Data :#5 Date: 2012-2-2 Time: 下午 04:09:40

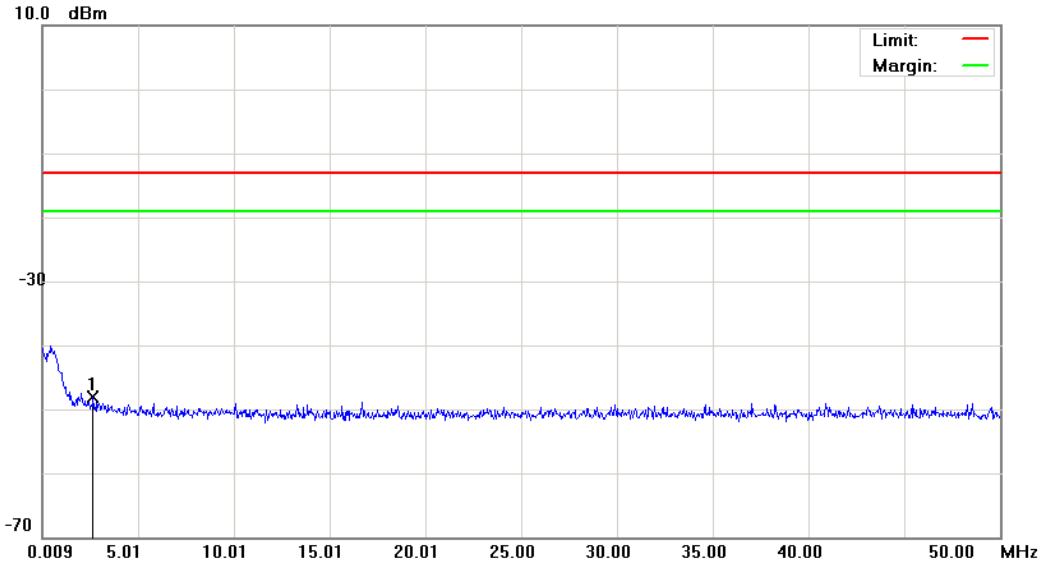


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	14834.375	-57.46	5.97	-51.49	-13.00	-38.49	peak		

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

File: PJ46100(CH9400) Data: #1 Date: 2012-2-2 Time: 下午 01:20:04

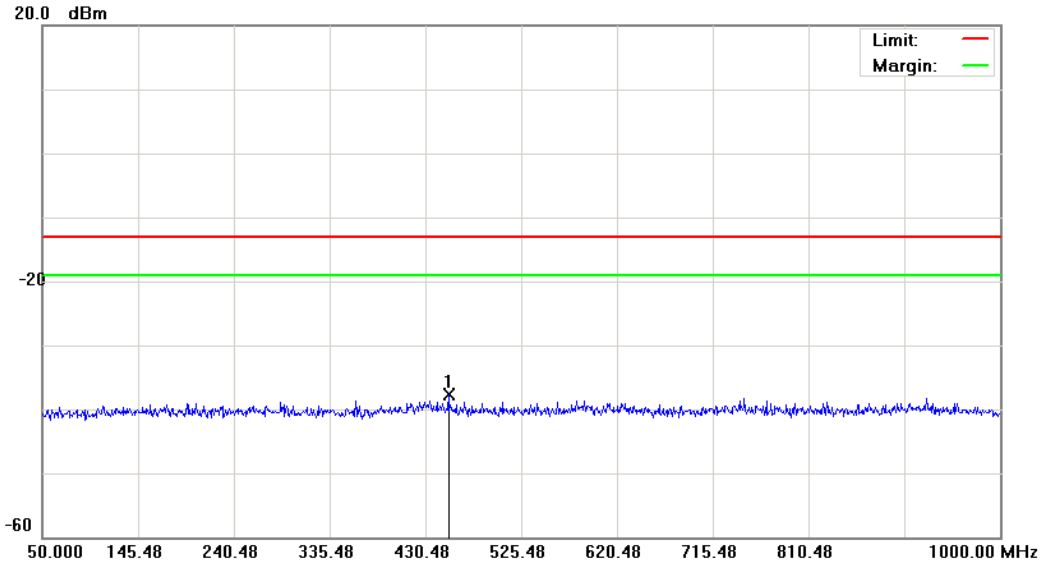


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	2.6585	-60.90	12.80	-48.10	-13.00	-35.10	peak			

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

File: PJ46100(CH9400) Data :#2 Date: 2012-2-2 Time: 下午 01:20:28

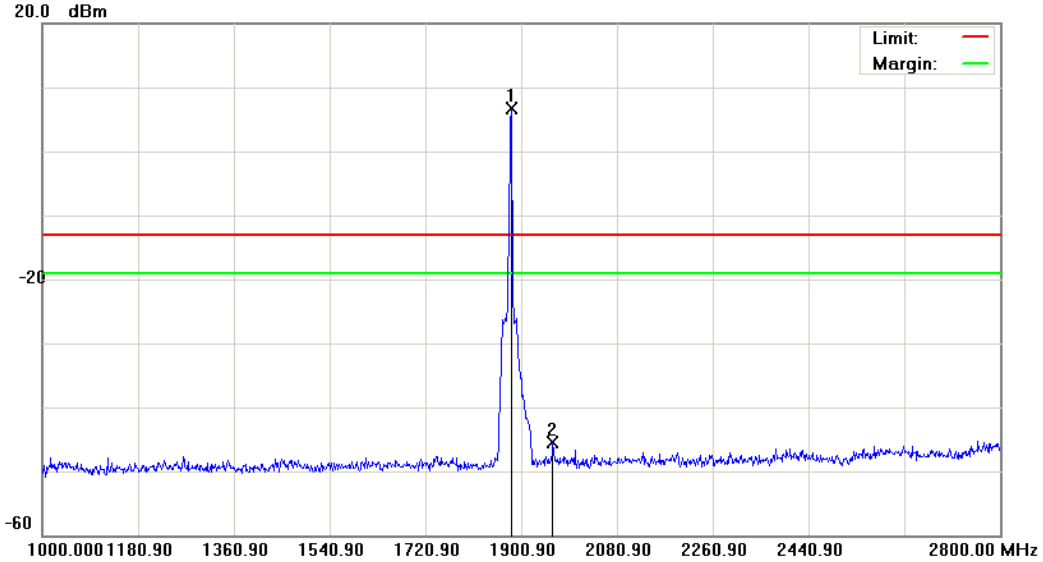


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	452.8000	-50.89	13.22	-37.67	-13.00	-24.67	peak		

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

File: PJ46100(CH9400) Data :#3 Date: 2012-2-2 Time: 下午 01:52:14

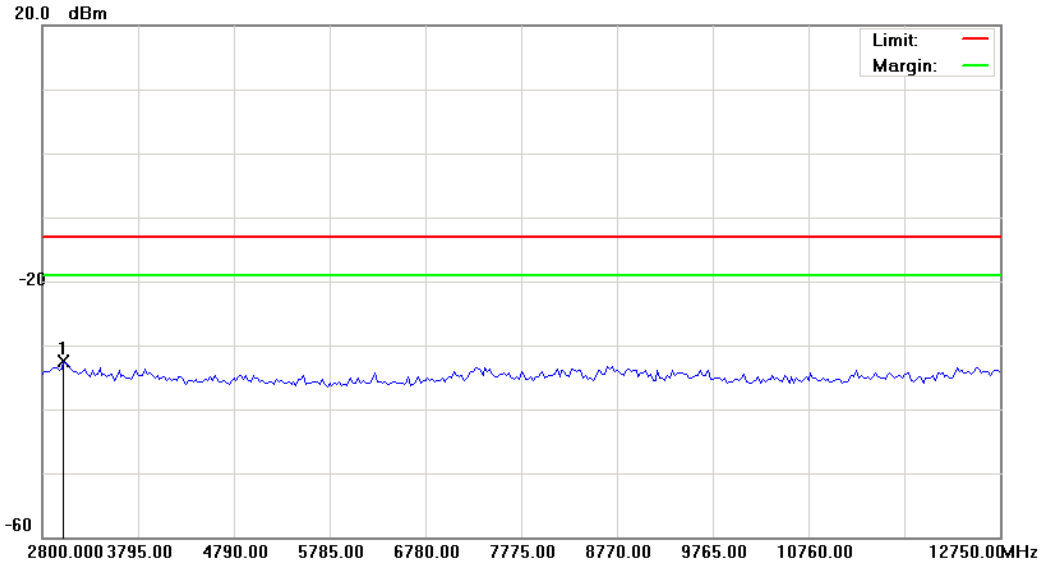


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	1882.000	1.88	4.83	6.71	-13.00	19.71	peak			Tx
2		1959.400	-50.25	4.73	-45.52	-13.00	-32.52	peak			

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

File: PJ46100(CH9400) Data :#4 Date: 2012-2-2 Time: 下午 04:10:15

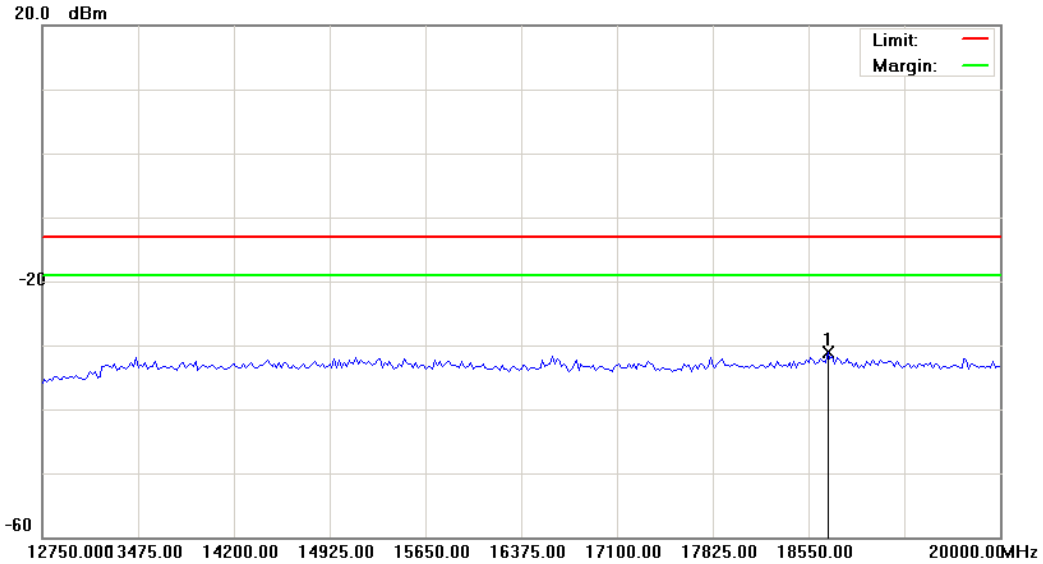


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	3023.875	-38.06	5.48	-32.58	-13.00	-19.58	peak		

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

File: PJ46100(CH9400) Data :#5 Date: 2012-2-2 Time: 下午 04:10:37

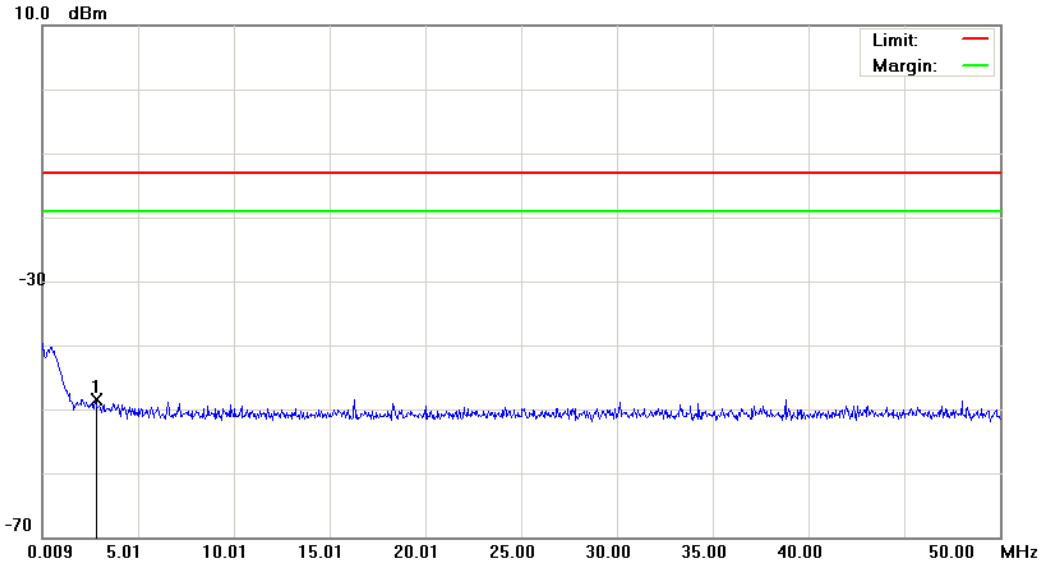


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	18695.000	-38.23	7.07	-31.16	-13.00	-18.16	peak			

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

File: PJ46100(CH9538) Data :#1 Date: 2012-2-2 Time: 下午 01:21:44

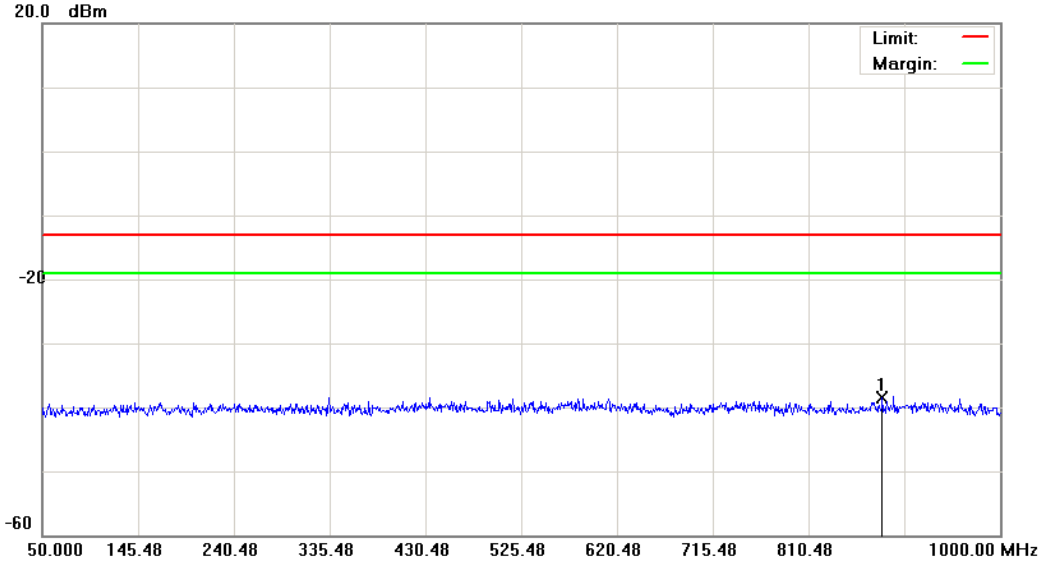


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2.7835	-61.45	12.88	-48.57	-13.00	-35.57	peak		

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

File: PJ46100(CH9538) Data :#2 Date: 2012-2-2 Time: 下午 01:22:09

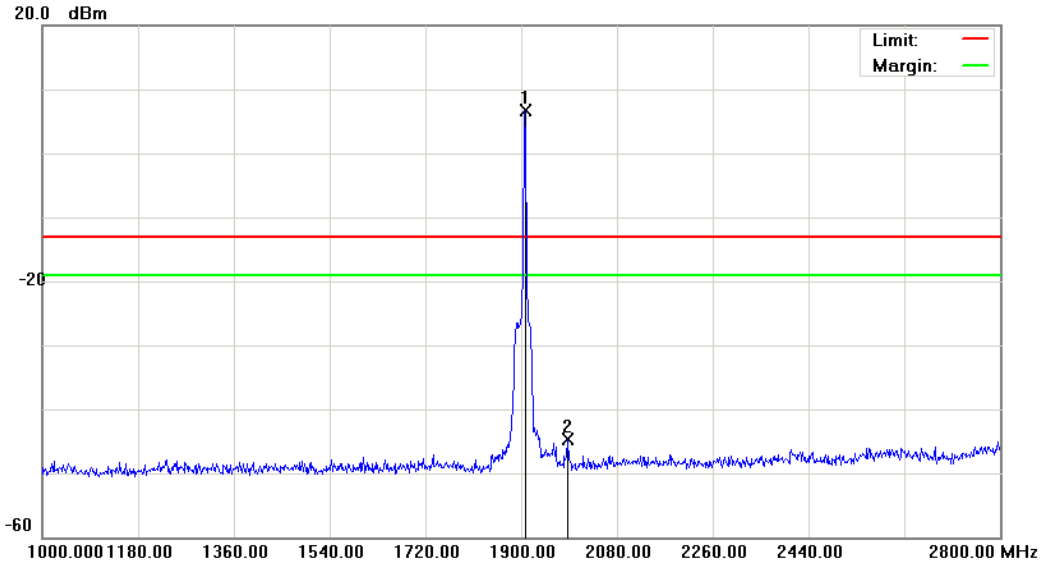


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	883.1500	-51.66	13.20	-38.46	-13.00	-25.46	peak		

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

File: PJ46100(CH9538) Data :#3 Date: 2012-2-2 Time: 下午 01:53:58



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	1906.300	0.58	6.05	6.63	-13.00	19.63	peak			Tx
2		1987.300	-49.41	4.67	-44.74	-13.00	-31.74	peak			

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

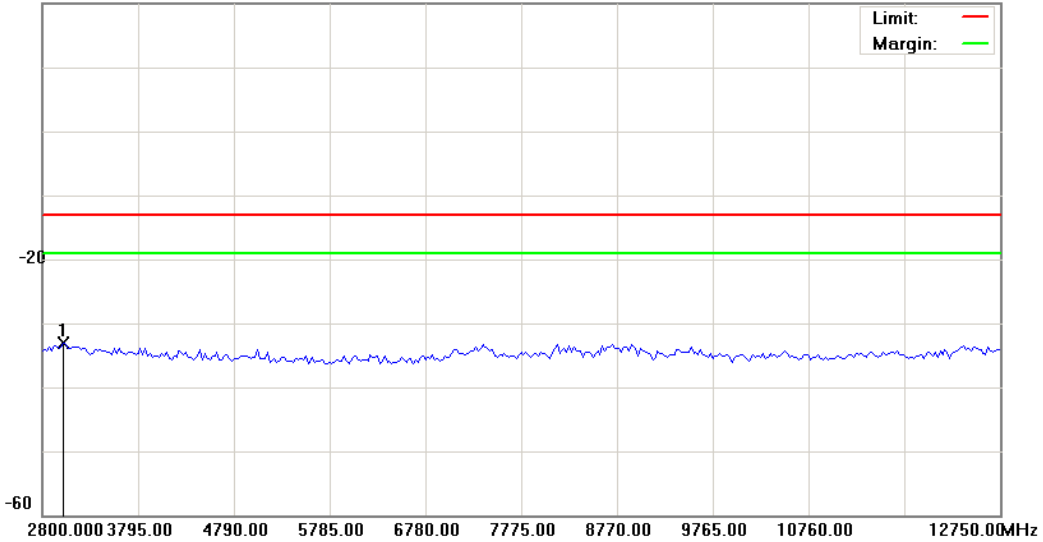
File: PJ46100(CH9538)

Data :#4

Date: 2012-2-2

Time: 下午 04:11:12

20.0 dBm

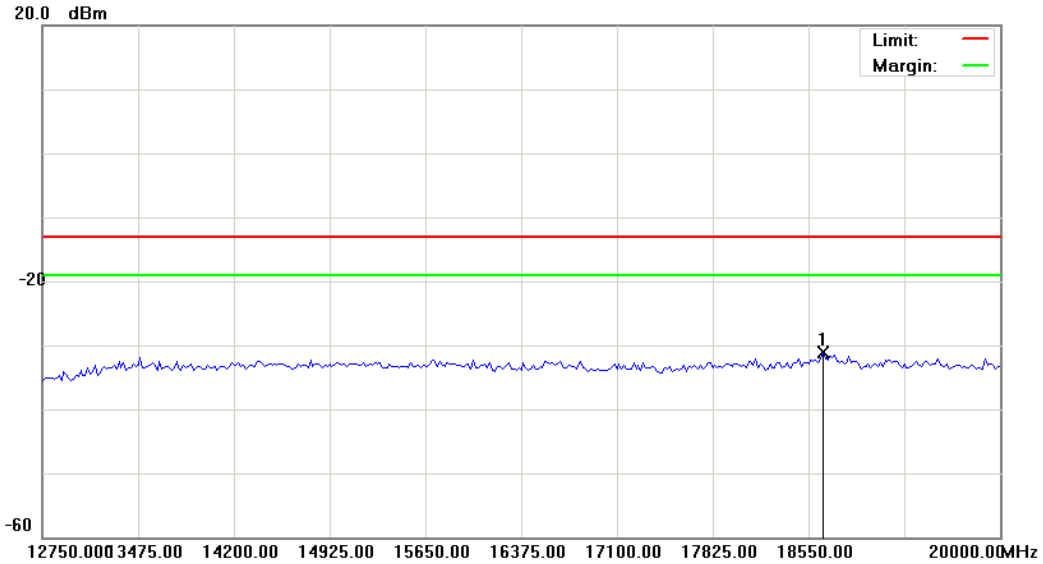


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	3023.875	-38.48	5.48	-33.00	-13.00	-20.00	peak			

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

File: PJ46100(CH9538) Data :#5 Date: 2012-2-2 Time: 下午 04:11:33

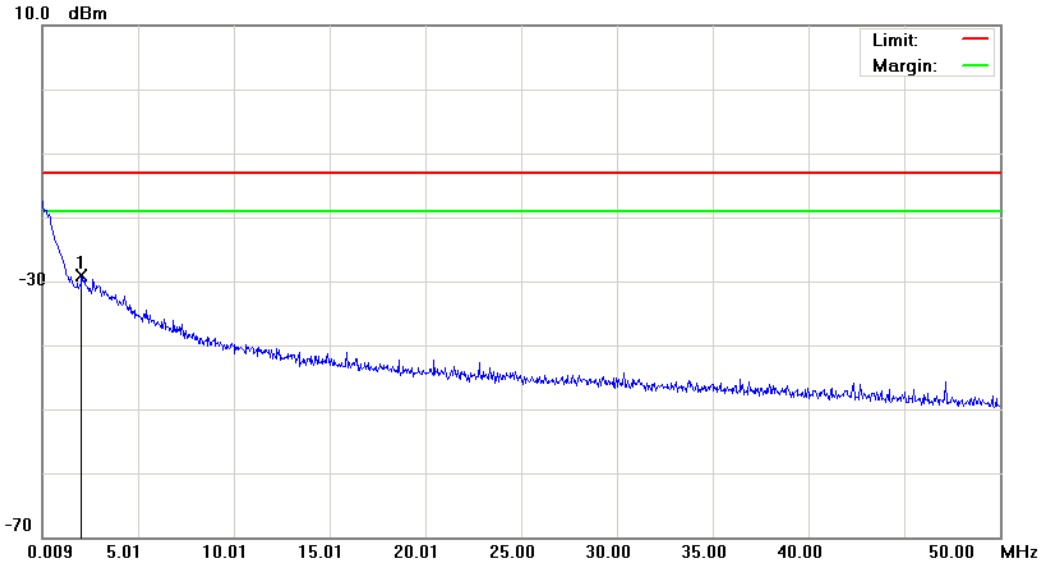


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 3		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	18658.750	-38.20	7.06	-31.14	-13.00	-18.14	peak		

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

File: PJ46100(CH4132) Data: #1 Date: 2012-2-2 Time: 下午 03:10:13

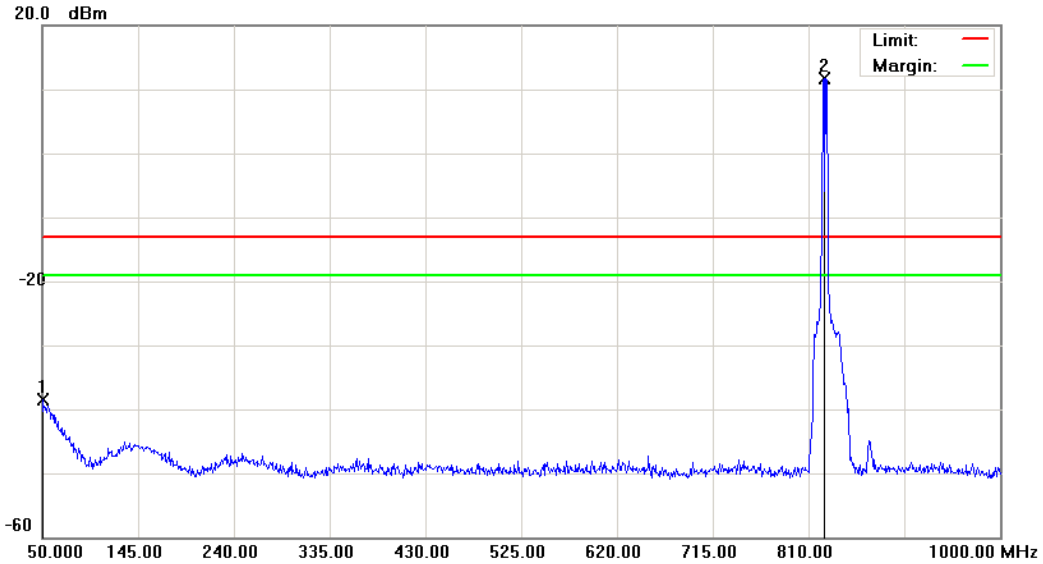


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 4		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2.0586	-60.50	31.45	-29.05	-13.00	-16.05	peak		

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

File: PJ46100(CH4132) Data :#2 Date: 2012-2-2 Time: 下午 03:10:37



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 4		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		50.0000	-53.18	14.69	-38.49	-13.00	-25.49	peak			
2	*	825.2000	7.95	3.84	11.79	-13.00	24.79	peak			Tx

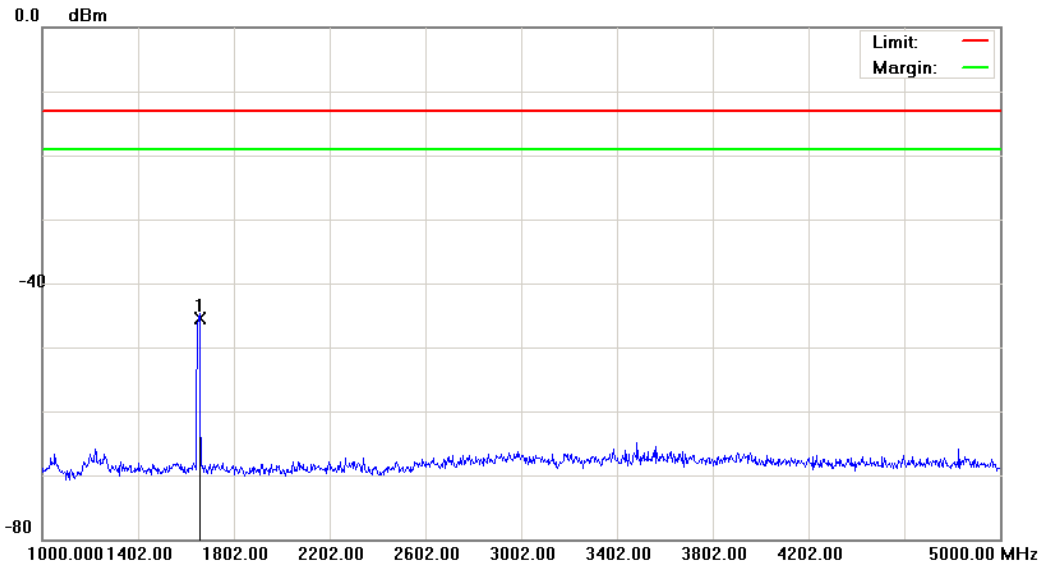
*:Maximum data x:Over limit !:over margin

File: PJ46100(CH4132)

Data :#3

Date: 2012-2-2

Time: 下午 03:33:12



Site: : RF Conducted

 Polarization: **Conducted po**

Temperature: 23 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55.2 %

EUT: Smartphone

Distance:

RBW: 1000 kHz VBW: 1000kHz

M/N: PJ46100

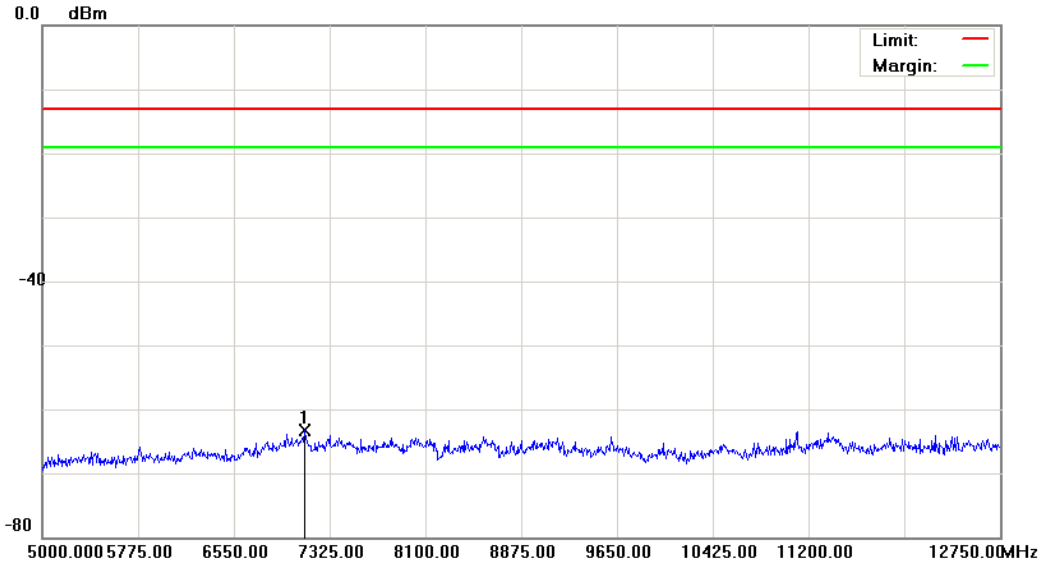
Mode: 4

Note:

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	1654.000	-49.92	4.45	-45.47	-13.00	-32.47	peak			

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

File: PJ46100(CH4132) Data :#4 Date: 2012-2-2 Time: 下午 03:33:35

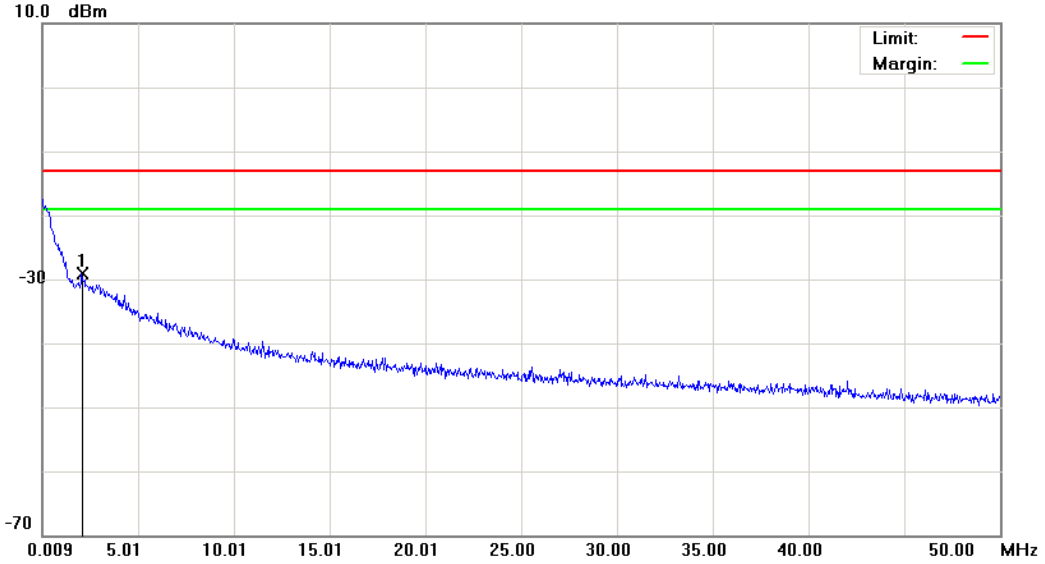


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 4		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	7123.500	-68.44	5.18	-63.26	-13.00	-50.26	peak		

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

File: PJ46100(CH4183) Data :#1 Date: 2012-2-2 Time: 下午 03:12:50

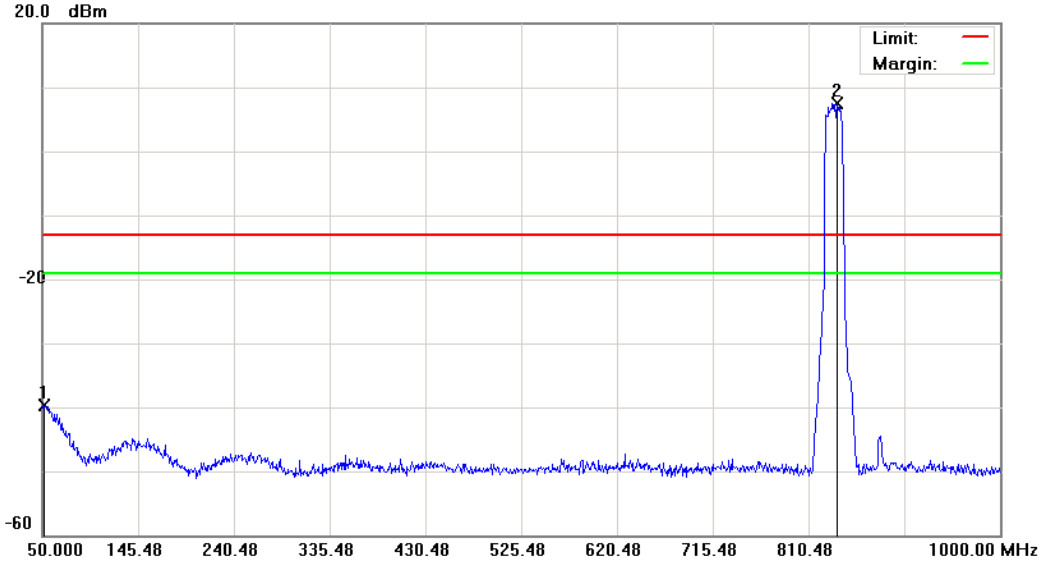


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 4		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2.0836	-60.53	31.50	-29.03	-13.00	-16.03	peak		

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

File: PJ46100(CH4183) Data :#2 Date: 2012-2-2 Time: 下午 03:13:15

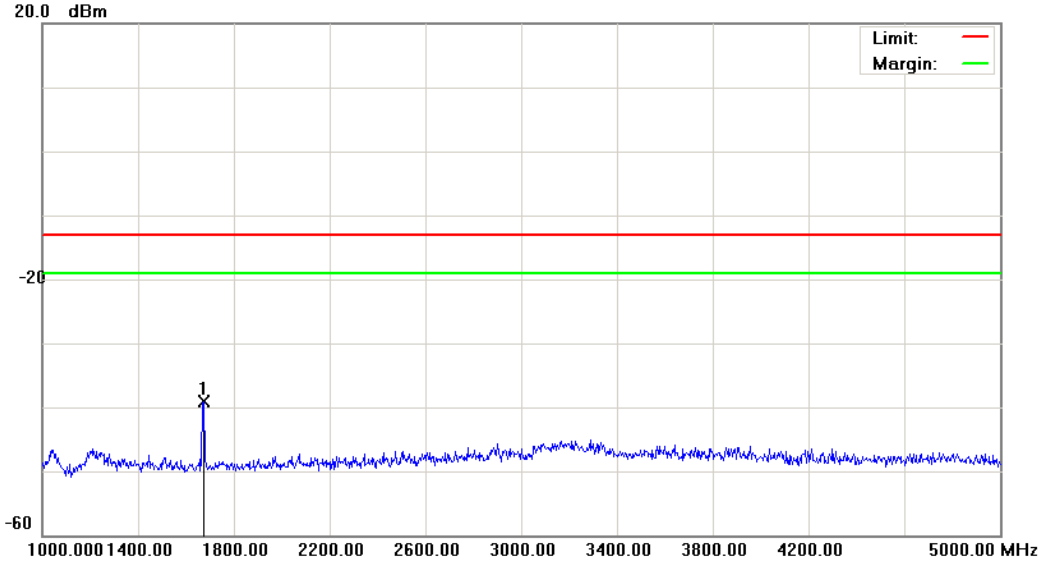


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 4		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		51.4250	-54.16	14.44	-39.72	-13.00	-26.72	peak			
2	*	838.5000	3.49	3.97	7.46	-13.00	20.46	peak			Tx

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

File: PJ46100(CH4183) Data :#3 Date: 2012-2-2 Time: 下午 03:29:50



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 4		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	1676.000	-43.62	4.47	-39.15	-13.00	-26.15	peak			

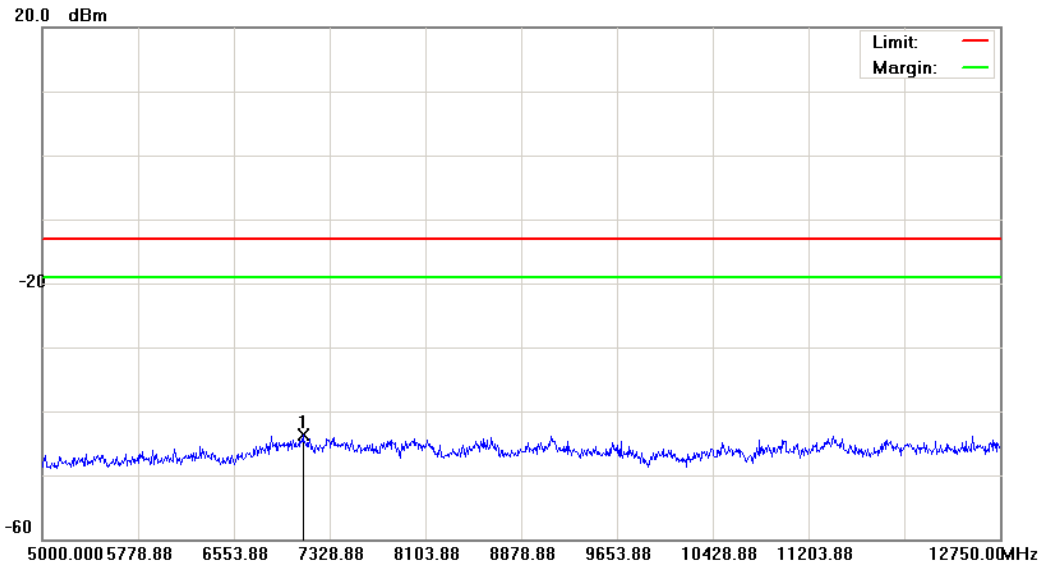
*:Maximum data x:Over limit !:over margin

File: PJ46100(CH4183)

Data :#4

Date: 2012-2-2

Time: 下午 03:30:13

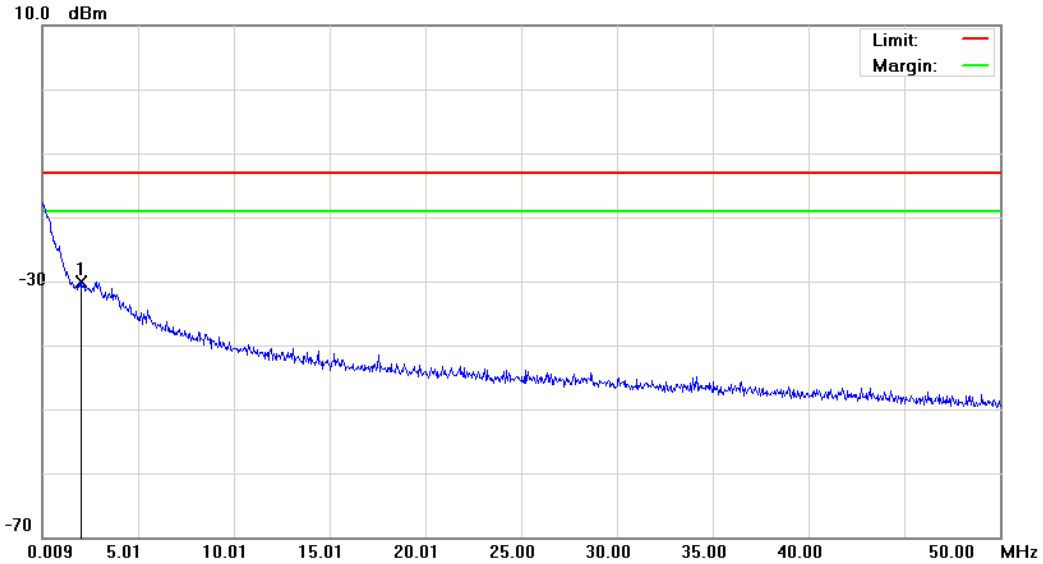


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 4		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	7108.000	-48.79	5.12	-43.67	-13.00	-30.67	peak		

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

File: PJ46100(CH4233) Data :#1 Date: 2012-2-2 Time: 下午 03:16:19

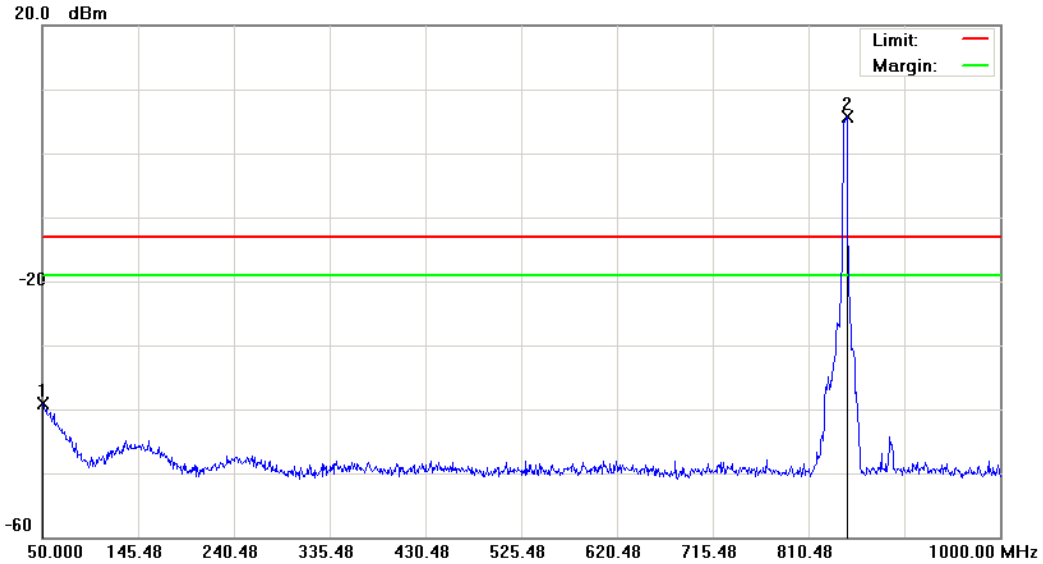


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 4		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2.0586	-61.60	31.45	-30.15	-13.00	-17.15	peak		

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

File: PJ46100(CH4233) Data :#2 Date: 2012-2-2 Time: 下午 03:16:43

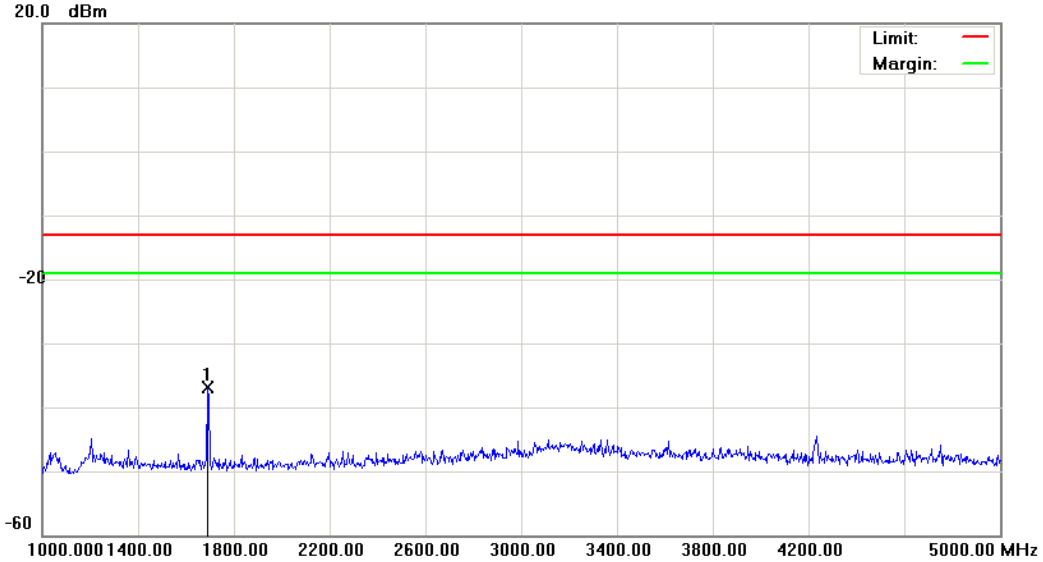


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 4		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		50.4750	-53.70	14.61	-39.09	-13.00	-26.09	peak			
2	*	848.0000	1.80	3.98	5.78	-13.00	18.78	peak			Tx

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

File: PJ46100(CH4233) Data :#3 Date: 2012-2-2 Time: 下午 03:32:03

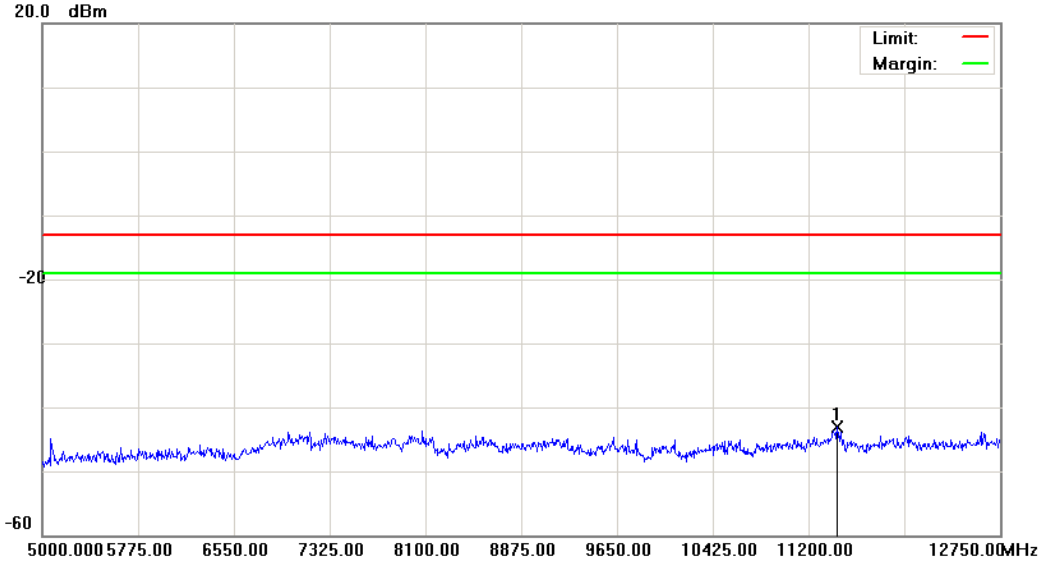


Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 4		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1692.000	-41.40	4.48	-36.92	-13.00	-23.92	peak		

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

File: PJ46100(CH4233) Data :#4 Date: 2012-2-2 Time: 下午 03:32:26



Site: : RF Conducted	Polarization: Conducted po	Temperature: 23 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55.2 %
EUT: Smartphone	Distance:	RBW: 1000 kHz VBW: 1000kHz
M/N: PJ46100		
Mode: 4		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	11432.500	-48.70	5.57	-43.13	-13.00	-30.13	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.

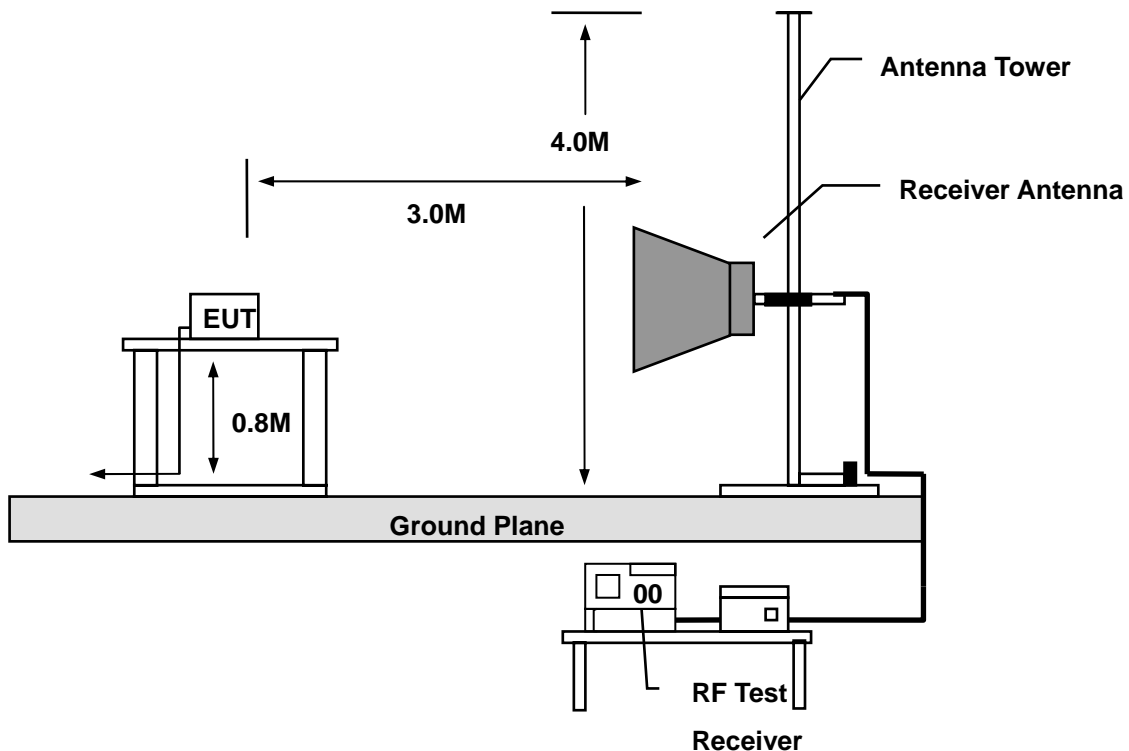
6.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/16/2012	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/16/2012	(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	12/20/2011	(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

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 30 MHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna (model VULB9163) at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna (model BBHA9120D&9170) was used in frequencies 1 – 26.5 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts per meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro volts per meter (dBuV/m).

The actual field intensity in decibels referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

$$(1) \text{ Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

$$(2) \text{ Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)}$$

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

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:	PJ46100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	2012/02/18
Frequency:	824.2 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	81.5000	-70.64	-2.93	-73.57	-13.00	-60.57	peak	H
2	232.5000	-82.01	-1.21	-83.22	-13.00	-70.22	peak	H
3	406.5000	-81.51	2.83	-78.68	-13.00	-65.68	peak	H
4	483.5000	-81.49	5.95	-75.54	-13.00	-62.54	peak	H
5	620.5000	-80.80	7.68	-73.12	-13.00	-60.12	peak	H
6	796.5000	-81.48	11.06	-70.42	-13.00	-57.42	peak	H
7	8044.000	-72.66	29.54	-43.12	-13.00	-30.12	peak	H
8	10204.000	-74.21	33.07	-41.14	-13.00	-28.14	peak	H
9	12196.000	-74.47	36.54	-37.93	-13.00	-24.93	peak	H
1	55.0000	-70.14	-5.76	-75.90	-13.00	-62.90	peak	V
2	131.5000	-75.76	13.56	-62.20	-13.00	-49.20	peak	V
3	162.5000	-72.99	10.32	-62.67	-13.00	-49.67	peak	V
4	331.5000	-80.95	1.13	-79.82	-13.00	-66.82	peak	V
5	524.0000	-82.19	3.34	-78.85	-13.00	-65.85	peak	V
6	652.0000	-81.06	9.09	-71.97	-13.00	-58.97	peak	V
7	5980.000	-73.44	22.79	-50.65	-13.00	-37.65	peak	V
8	7684.000	-74.34	26.45	-47.89	-13.00	-34.89	peak	V
9	8956.000	-74.72	24.34	-50.38	-13.00	-37.38	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ46100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	2012/02/18
Frequency:	836.4 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	92.5000	-71.73	-0.43	-72.16	-13.00	-59.16	peak	H
2	417.0000	-80.93	3.31	-77.62	-13.00	-64.62	peak	H
3	538.0000	-80.67	8.19	-72.48	-13.00	-59.48	peak	H
4	582.5000	-80.35	7.64	-72.71	-13.00	-59.71	peak	H
5	705.5000	-80.95	7.10	-73.85	-13.00	-60.85	peak	H
6	958.0000	-82.36	14.83	-67.53	-13.00	-54.53	peak	H
7	4564.000	-72.85	17.44	-55.41	-13.00	-42.41	peak	H
8	8524.000	-73.27	28.65	-44.62	-13.00	-31.62	peak	H
9	11572.000	-74.10	36.83	-37.27	-13.00	-24.27	peak	H
1	54.5000	-69.10	-5.83	-74.93	-13.00	-61.93	peak	V
2	130.5000	-74.90	14.09	-60.81	-13.00	-47.81	peak	V
3	156.0000	-71.03	10.76	-60.27	-13.00	-47.27	peak	V
4	239.5000	-82.47	0.48	-81.99	-13.00	-68.99	peak	V
5	389.5000	-81.97	1.48	-80.49	-13.00	-67.49	peak	V
6	554.5000	-79.66	4.34	-75.32	-13.00	-62.32	peak	V
7	4180.000	-71.71	21.16	-50.55	-13.00	-37.55	peak	V
8	7456.000	-73.13	26.42	-46.71	-13.00	-33.71	peak	V
9	10132.000	-72.18	31.23	-40.95	-13.00	-27.95	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ46100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	2012/02/18
Frequency:	848.8 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	92.5000	-71.36	-0.43	-71.79	-13.00	-58.79	peak	H
2	260.0000	-80.81	-4.34	-85.15	-13.00	-72.15	peak	H
3	498.5000	-80.73	6.87	-73.86	-13.00	-60.86	peak	H
4	659.5000	-80.62	7.15	-73.47	-13.00	-60.47	peak	H
5	912.5000	-81.35	14.49	-66.86	-13.00	-53.86	peak	H
6	963.5000	-82.07	14.74	-67.33	-13.00	-54.33	peak	H
7	4000.000	-72.94	16.45	-56.49	-13.00	-43.49	peak	H
8	8356.000	-72.41	29.01	-43.40	-13.00	-30.40	peak	H
9	11548.000	-75.84	36.84	-39.00	-13.00	-26.00	peak	H
1	54.5000	-69.36	-5.83	-75.19	-13.00	-62.19	peak	V
2	130.0000	-75.07	14.37	-60.70	-13.00	-47.70	peak	V
3	204.0000	-80.50	9.66	-70.84	-13.00	-57.84	peak	V
4	511.0000	-80.03	2.94	-77.09	-13.00	-64.09	peak	V
5	624.0000	-80.34	8.83	-71.51	-13.00	-58.51	peak	V
6	708.0000	-81.27	10.46	-70.81	-13.00	-57.81	peak	V
7	4852.000	-72.40	23.07	-49.33	-13.00	-36.33	peak	V
8	7324.000	-73.08	26.14	-46.94	-13.00	-33.94	peak	V
9	9376.000	-73.96	27.42	-46.54	-13.00	-33.54	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ46100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2	Date:	2012/02/18
Frequency:	1850.2 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	55.5000	-75.47	6.12	-69.35	-13.00	-56.35	peak	H
2	280.0000	-84.18	-4.34	-88.52	-13.00	-75.52	peak	H
3	567.0000	-81.37	7.74	-73.63	-13.00	-60.63	peak	H
4	732.0000	-82.90	7.91	-74.99	-13.00	-61.99	peak	H
5	823.5000	-83.02	11.95	-71.07	-13.00	-58.07	peak	H
6	861.5000	-84.63	13.04	-71.59	-13.00	-58.59	peak	H
7	3724.000	-69.29	15.92	-53.37	-13.00	-40.37	peak	H
8	6220.000	-71.69	24.41	-47.28	-13.00	-34.28	peak	H
9	11440.000	-72.91	36.79	-36.12	-13.00	-23.12	peak	H
1	56.0000	-70.67	-5.63	-76.30	-13.00	-63.30	peak	V
2	260.0000	-84.37	-1.56	-85.93	-13.00	-72.93	peak	V
3	480.0000	-83.00	2.39	-80.61	-13.00	-67.61	peak	V
4	595.5000	-82.06	7.10	-74.96	-13.00	-61.96	peak	V
5	804.0000	-82.28	11.76	-70.52	-13.00	-57.52	peak	V
6	905.0000	-84.22	10.90	-73.32	-13.00	-60.32	peak	V
7	3904.000	-69.48	20.38	-49.10	-13.00	-36.10	peak	V
8	7396.000	-69.28	26.30	-42.98	-13.00	-29.98	peak	V
9	10948.000	-73.56	36.33	-37.23	-13.00	-24.23	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ46100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2	Date:	2012/02/18
Frequency:	1880.0 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	44.0000	-81.94	8.94	-73.00	-13.00	-60.00	peak	H
2	260.5000	-83.31	-4.34	-87.65	-13.00	-74.65	peak	H
3	497.0000	-81.03	6.79	-74.24	-13.00	-61.24	peak	H
4	673.5000	-83.45	7.07	-76.38	-13.00	-63.38	peak	H
5	791.5000	-82.59	10.78	-71.81	-13.00	-58.81	peak	H
6	921.0000	-84.28	14.74	-69.54	-13.00	-56.54	peak	H
7	1876.000	-58.32	10.51	-47.81	-13.00	-34.81	peak	H
8	5644.000	-64.72	22.08	-42.64	-13.00	-29.64	peak	H
9	11212.000	-73.78	36.62	-37.16	-13.00	-24.16	peak	H
1	163.5000	-73.35	9.37	-63.98	-13.00	-50.98	peak	V
2	239.5000	-82.65	0.48	-82.17	-13.00	-69.17	peak	V
3	293.5000	-84.03	2.12	-81.91	-13.00	-68.91	peak	V
4	526.0000	-81.66	3.45	-78.21	-13.00	-65.21	peak	V
5	615.5000	-81.51	8.56	-72.95	-13.00	-59.95	peak	V
6	893.0000	-82.95	10.69	-72.26	-13.00	-59.26	peak	V
7	4132.000	-69.21	21.00	-48.21	-13.00	-35.21	peak	V
8	7564.000	-71.32	26.49	-44.83	-13.00	-31.83	peak	V
9	11416.000	-72.77	37.82	-34.95	-13.00	-21.95	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ46100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2	Date:	2012/02/18
Frequency:	1909.8 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	55.5000	-75.47	6.12	-69.35	-13.00	-56.35	peak	H
2	249.0000	-84.13	-4.00	-88.13	-13.00	-75.13	peak	H
3	653.5000	-82.98	7.05	-75.93	-13.00	-62.93	peak	H
4	776.5000	-83.40	9.99	-73.41	-13.00	-60.41	peak	H
5	858.5000	-83.76	12.95	-70.81	-13.00	-57.81	peak	H
6	918.5000	-83.55	14.69	-68.86	-13.00	-55.86	peak	H
7	3100.000	-68.87	14.24	-54.63	-13.00	-41.63	peak	H
8	7528.000	-71.70	29.21	-42.49	-13.00	-29.49	peak	H
9	10264.000	-72.14	33.28	-38.86	-13.00	-25.86	peak	H
1	79.0000	-75.47	-9.03	-84.50	-13.00	-71.50	peak	V
2	171.5000	-79.10	3.06	-76.04	-13.00	-63.04	peak	V
3	567.5000	-82.33	4.95	-77.38	-13.00	-64.38	peak	V
4	692.0000	-83.71	9.94	-73.77	-13.00	-60.77	peak	V
5	827.5000	-82.74	11.31	-71.43	-13.00	-58.43	peak	V
6	866.5000	-82.88	11.38	-71.50	-13.00	-58.50	peak	V
7	3820.000	-66.95	20.21	-46.74	-13.00	-33.74	peak	V
8	10564.000	-73.23	33.67	-39.56	-13.00	-26.56	peak	V
9	12760.000	-74.92	40.30	-34.62	-13.00	-21.62	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ46100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3	Date:	2012/02/18
Frequency:	1852.4 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	54.5000	-73.44	6.44	-67.00	-13.00	-54.00	peak	H
2	159.0000	-75.28	1.13	-74.15	-13.00	-61.15	peak	H
3	567.5000	-80.88	7.73	-73.15	-13.00	-60.15	peak	H
4	774.0000	-81.75	9.86	-71.89	-13.00	-58.89	peak	H
5	832.5000	-80.96	12.03	-68.93	-13.00	-55.93	peak	H
6	951.0000	-82.87	14.85	-68.02	-13.00	-55.02	peak	H
7	4060.000	-69.25	16.52	-52.73	-13.00	-39.73	peak	H
8	6676.000	-74.03	26.65	-47.38	-13.00	-34.38	peak	H
9	8140.000	-72.06	29.38	-42.68	-13.00	-29.68	peak	H
1	138.0000	-75.59	10.02	-65.57	-13.00	-52.57	peak	V
2	285.5000	-82.81	1.40	-81.41	-13.00	-68.41	peak	V
3	557.5000	-82.72	4.35	-78.37	-13.00	-65.37	peak	V
4	739.0000	-80.67	10.52	-70.15	-13.00	-57.15	peak	V
5	887.0000	-81.98	10.79	-71.19	-13.00	-58.19	peak	V
6	945.5000	-84.78	12.64	-72.14	-13.00	-59.14	peak	V
7	6748.000	-72.29	25.20	-47.09	-13.00	-34.09	peak	V
8	7996.000	-72.24	26.35	-45.89	-13.00	-32.89	peak	V
9	10540.000	-72.60	33.50	-39.10	-13.00	-26.10	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ46100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3	Date:	2012/02/18
Frequency:	1880.0 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	49.0000	-82.58	8.04	-74.54	-13.00	-61.54	peak	H
2	249.5000	-82.63	-4.10	-86.73	-13.00	-73.73	peak	H
3	446.0000	-81.75	4.11	-77.64	-13.00	-64.64	peak	H
4	673.0000	-81.97	7.07	-74.90	-13.00	-61.90	peak	H
5	849.0000	-83.39	12.51	-70.88	-13.00	-57.88	peak	H
6	919.5000	-83.03	14.73	-68.30	-13.00	-55.30	peak	H
7	4144.000	-71.31	16.62	-54.69	-13.00	-41.69	peak	H
8	7120.000	-72.29	27.97	-44.32	-13.00	-31.32	peak	H
9	9220.000	-73.44	27.95	-45.49	-13.00	-32.49	peak	H
1	141.0000	-76.00	8.84	-67.16	-13.00	-54.16	peak	V
2	300.0000	-82.37	2.71	-79.66	-13.00	-66.66	peak	V
3	518.0000	-80.68	3.07	-77.61	-13.00	-64.61	peak	V
4	797.0000	-82.41	11.77	-70.64	-13.00	-57.64	peak	V
5	865.5000	-81.86	11.41	-70.45	-13.00	-57.45	peak	V
6	926.0000	-83.11	12.13	-70.98	-13.00	-57.98	peak	V
7	4132.000	-70.11	21.00	-49.11	-13.00	-36.11	peak	V
8	8188.000	-73.28	26.24	-47.04	-13.00	-34.04	peak	V
9	11404.000	-74.43	37.82	-36.61	-13.00	-23.61	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ46100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3	Date:	2012/02/18
Frequency:	1907.6 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	258.5000	-82.72	-4.32	-87.04	-13.00	-74.04	peak	H
2	533.0000	-81.78	8.04	-73.74	-13.00	-60.74	peak	H
3	541.0000	-79.89	8.23	-71.66	-13.00	-58.66	peak	H
4	647.0000	-81.82	6.94	-74.88	-13.00	-61.88	peak	H
5	767.0000	-82.78	9.47	-73.31	-13.00	-60.31	peak	H
6	962.5000	-83.59	14.76	-68.83	-13.00	-55.83	peak	H
7	4216.000	-70.00	16.71	-53.29	-13.00	-40.29	peak	H
8	7192.000	-72.11	28.20	-43.91	-13.00	-30.91	peak	H
9	9340.000	-72.99	28.93	-44.06	-13.00	-31.06	peak	H
1	202.5000	-77.21	9.84	-67.37	-13.00	-54.37	peak	V
2	440.5000	-80.84	1.46	-79.38	-13.00	-66.38	peak	V
3	566.5000	-82.11	4.88	-77.23	-13.00	-64.23	peak	V
4	713.0000	-81.28	10.63	-70.65	-13.00	-57.65	peak	V
5	827.5000	-82.74	11.31	-71.43	-13.00	-58.43	peak	V
6	866.5000	-82.88	11.38	-71.50	-13.00	-58.50	peak	V
7	3508.000	-69.08	19.52	-49.56	-13.00	-36.56	peak	V
8	7144.000	-73.42	25.78	-47.64	-13.00	-34.64	peak	V
9	10468.000	-73.11	33.06	-40.05	-13.00	-27.05	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ46100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4	Date:	2012/02/18
Frequency:	826.4 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	81.5000	-70.64	-2.93	-73.57	-13.00	-60.57	peak	H
2	208.5000	-80.15	0.98	-79.17	-13.00	-66.17	peak	H
3	426.5000	-81.33	3.58	-77.75	-13.00	-64.75	peak	H
4	615.5000	-80.68	7.75	-72.93	-13.00	-59.93	peak	H
5	721.0000	-81.27	7.52	-73.75	-13.00	-60.75	peak	H
6	811.0000	-83.83	11.61	-72.22	-13.00	-59.22	peak	H
7	4000.000	-70.32	16.45	-53.87	-13.00	-40.87	peak	H
8	8572.000	-74.23	28.40	-45.83	-13.00	-32.83	peak	H
9	11404.000	-75.62	36.78	-38.84	-13.00	-25.84	peak	H
1	55.0000	-70.14	-5.76	-75.90	-13.00	-62.90	peak	V
2	127.0000	-72.44	11.38	-61.06	-13.00	-48.06	peak	V
3	201.0000	-79.24	10.04	-69.20	-13.00	-56.20	peak	V
4	352.0000	-82.13	1.95	-80.18	-13.00	-67.18	peak	V
5	468.5000	-81.19	2.00	-79.19	-13.00	-66.19	peak	V
6	677.5000	-81.38	9.54	-71.84	-13.00	-58.84	peak	V
7	3484.000	-69.19	19.41	-49.78	-13.00	-36.78	peak	V
8	7528.000	-71.71	26.48	-45.23	-13.00	-32.23	peak	V
9	10300.000	-72.68	32.14	-40.54	-13.00	-27.54	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ46100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4	Date:	2012/02/18
Frequency:	836.4 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	120.5000	-72.31	-5.39	-77.70	-13.00	-64.70	peak	H
2	261.5000	-81.89	-4.34	-86.23	-13.00	-73.23	peak	H
3	582.5000	-80.35	7.64	-72.71	-13.00	-59.71	peak	H
4	610.5000	-80.28	7.82	-72.46	-13.00	-59.46	peak	H
5	755.0000	-81.35	8.87	-72.48	-13.00	-59.48	peak	H
6	958.0000	-82.36	14.83	-67.53	-13.00	-54.53	peak	H
7	4672.000	-72.60	18.11	-54.49	-13.00	-41.49	peak	H
8	6724.000	-72.93	26.79	-46.14	-13.00	-33.14	peak	H
9	11056.000	-74.31	36.48	-37.83	-13.00	-24.83	peak	H
1	163.5000	-74.49	9.37	-65.12	-13.00	-52.12	peak	V
2	493.5000	-80.31	2.63	-77.68	-13.00	-64.68	peak	V
3	524.0000	-81.56	3.34	-78.22	-13.00	-65.22	peak	V
4	660.0000	-81.28	9.39	-71.89	-13.00	-58.89	peak	V
5	667.5000	-81.78	9.45	-72.33	-13.00	-59.33	peak	V
6	974.5000	-87.60	12.48	-75.12	-13.00	-62.12	peak	V
7	4756.000	-73.58	22.82	-50.76	-13.00	-37.76	peak	V
8	8980.000	-73.00	24.26	-48.74	-13.00	-35.74	peak	V
9	12004.000	-74.62	38.96	-35.66	-13.00	-22.66	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PJ46100	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4	Date:	2012/02/18
Frequency:	846.4 MHz	Test By:	Fly Lu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	81.5000	-73.68	-2.93	-76.61	-13.00	-63.61	peak	H
2	167.0000	-81.31	-4.01	-85.32	-13.00	-72.32	peak	H
3	626.0000	-80.79	7.44	-73.35	-13.00	-60.35	peak	H
4	659.5000	-80.62	7.15	-73.47	-13.00	-60.47	peak	H
5	747.5000	-81.90	8.52	-73.38	-13.00	-60.38	peak	H
6	939.5000	-81.42	14.86	-66.56	-13.00	-53.56	peak	H
7	3676.000	-69.92	15.83	-54.09	-13.00	-41.09	peak	H
8	6532.000	-73.79	26.24	-47.55	-13.00	-34.55	peak	H
9	11380.000	-76.61	36.74	-39.87	-13.00	-26.87	peak	H
1	30.0000	-52.22	-9.69	-61.91	-13.00	-48.91	peak	V
2	124.0000	-77.94	8.41	-69.53	-13.00	-56.53	peak	V
3	169.5000	-79.66	3.72	-75.94	-13.00	-62.94	peak	V
4	300.5000	-81.83	2.67	-79.16	-13.00	-66.16	peak	V
5	670.0000	-81.43	9.47	-71.96	-13.00	-58.96	peak	V
6	873.0000	-74.43	11.14	-63.29	-13.00	-50.29	peak	V
7	4084.000	-71.65	20.86	-50.79	-13.00	-37.79	peak	V
8	7108.000	-74.39	25.72	-48.67	-13.00	-35.67	peak	V
9	10780.000	-76.78	35.16	-41.62	-13.00	-28.62	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.

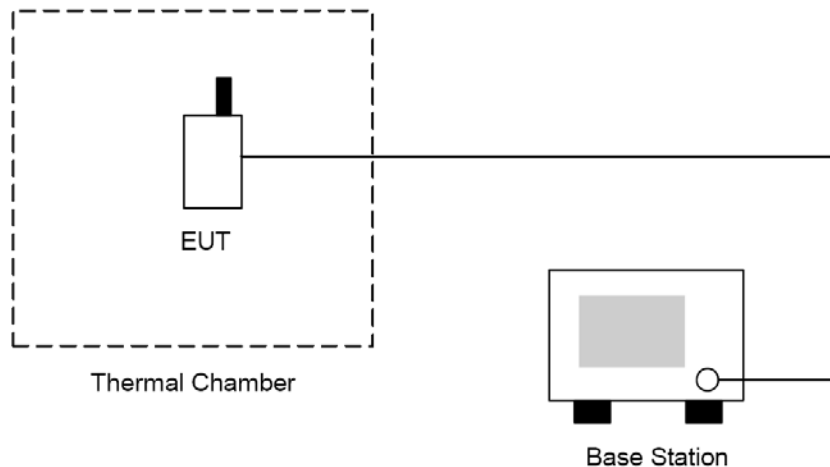
7.2. Test Instruments

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	08/24/2011	(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.

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	PJ46100			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 1: GSM 850 Link			
Date of Test	02/02/2012		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	12	0.014	±2.5	Pass
-20	11	0.013	±2.5	Pass
-10	15	0.018	±2.5	Pass
0	10	0.012	±2.5	Pass
10	8	0.010	±2.5	Pass
20	9	0.011	±2.5	Pass
30	11	0.013	±2.5	Pass
40	13	0.016	±2.5	Pass
50	10	0.012	±2.5	Pass

Model Number	PJ46100			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 2: GSM 1900 Link			
Date of Test	02/02/2012		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	-16	-0.009	±2.5	Pass
-20	-18	-0.010	±2.5	Pass
-10	-12	-0.006	±2.5	Pass
0	-10	-0.005	±2.5	Pass
10	-15	-0.008	±2.5	Pass
20	-19	-0.010	±2.5	Pass
30	-16	-0.009	±2.5	Pass
40	-18	-0.010	±2.5	Pass
50	-10	-0.005	±2.5	Pass

Model Number	PJ46100			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 3: WCDMA Band II Link			
Date of Test	02/02/2012		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	-3	-0.002	±2.5	Pass
-20	-8	-0.004	±2.5	Pass
-10	-9	-0.005	±2.5	Pass
0	-13	-0.007	±2.5	Pass
10	-12	-0.006	±2.5	Pass
20	-10	-0.005	±2.5	Pass
30	-8	-0.004	±2.5	Pass
40	-9	-0.005	±2.5	Pass
50	-11	-0.006	±2.5	Pass

Model Number	PJ46100			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 4: WCDMA Band V Link			
Date of Test	02/02/2012		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	-6	-0.007	±2.5	Pass
-20	-4	-0.005	±2.5	Pass
-10	-7	-0.008	±2.5	Pass
0	-5	-0.006	±2.5	Pass
10	-6	-0.007	±2.5	Pass
20	-8	-0.010	±2.5	Pass
30	-6	-0.007	±2.5	Pass
40	-5	-0.006	±2.5	Pass
50	-6	-0.007	±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.

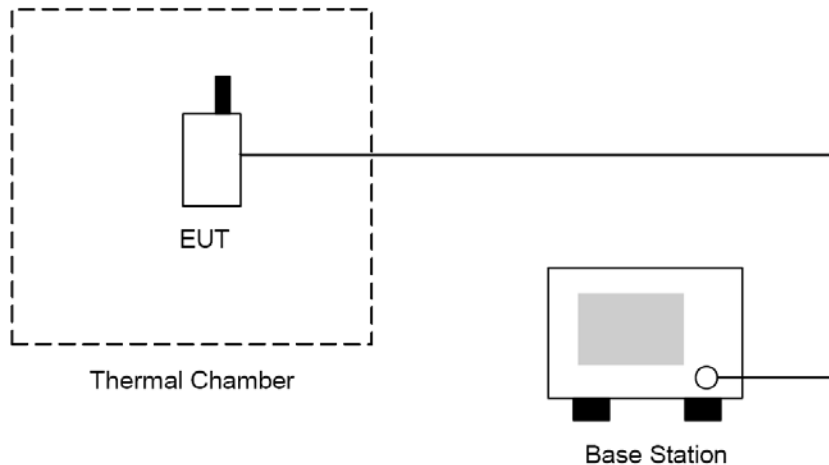
8.2. Test Instruments

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	08/24/2011	(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.

8.3. Setup



8.4. Test Procedure

1. The EUT was placed in a temperature chamber at $25 \pm 5 \text{ }^\circ\text{C}$ 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	PJ46100				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 1: GSM 850 Link				
Date of Test	02/02/2012		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.20	15	0.018	± 2.5	Pass
Normal	3.70	11	0.013	± 2.5	Pass
Battery cut-off point	3.40	12	0.014	± 2.5	Pass

Model Number	PJ46100				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 2: GSM 1900 Link				
Date of Test	02/02/2012		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.20	-15	-0.008	± 2.5	Pass
Normal	3.70	-13	-0.007	± 2.5	Pass
Battery cut-off point	3.40	-14	-0.007	± 2.5	Pass

Model Number	PJ46100				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 3: WCDMA Band II Link				
Date of Test	02/02/2012		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.20	-12	-0.006	± 2.5	Pass
Normal	3.70	-10	-0.005	± 2.5	Pass
Battery cut-off point	3.40	-13	-0.007	± 2.5	Pass

Model Number	PJ46100				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 4: WCDMA Band V Link				
Date of Test	02/02/2012		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.20	-7	-0.008	±2.5	Pass
Normal	3.70	-8	-0.010	±2.5	Pass
Battery cut-off point	3.40	-6	-0.007	±2.5	Pass