FCC 47 CFR PART 15 SUBPART C

Product Type	:	Smartphone
Applicant	:	HTC Corporation
Address	:	No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan
Trade Name	:	HTC
Model Number	:	PB76100
Test Specification	:	FCC 47 CFR PART 15 SUBPART C: Oct, 2008 ANSI C63.4-2003
Issue Date	:	Jan. 28, 2010

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	Jan. 28, 2010	Initial Issue	

Test Report Verification

Issued Date: 2010/01/28

Product Type	:	Smartphone
Applicant	:	HTC Corporation
Address	:	No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan
Trade Name	:	HTC
Model Number	:	PB76100
FCC ID	:	NM8PB76100
EUT Rated Voltage	:	AC 100-240V, 50-60Hz, 0.2A
Test Voltage	:	120 Vac / 60 Hz
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART C: Oct, 2008 ANSI C63.4-2003
Test Result	:	Complied
Performed Lab.	:	A Test Lab Techno Corp. No. 140-1, Changan Street, Bade City, Taoyuan Country 334, Taiwan R.O.C. Tel：+86-3-2710188 / Fax：+86-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330 http://www.atl-lab.com.tw/e-index.htm

The above equipment has been tested by A Test Lab Techno Corp., and found compliance with the requirements set forth in the Electromagnetic Compatibility Directive 2004/108/EC and technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved By : Reviewed By :

(Manager) (Miller Lee) (Testing Engineer) (John Cheng)

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1 General Information

1.1 Summary of Test Result

Standard		Item	Result	Remark
15.247	RSS-GEN			
15.207	7.2.2	AC Power Conducted Emission	PASS	-----
-----	6	Receiver Radiated Emissions	PASS	-----
Standard		Item	Result	Remark
15.247	RSS-210			
15.247(d)	A8.5	Transmitter Radiated Emissions	PASS	-----
15.247(b)(3)	A8.4	Max. Output Power	PASS	-----
15.247(a)(2)	A8.2 (a)	6dB RF Bandwidth	PASS	-----
15.247(e)	A8.2 (b)	Power Spectral Density	PASS	-----
15.247(c)	A8.5	Out of Band Conducted Spurious Emission	PASS	-----
15.247(d)	A8.5	Band Edge Measurement	PASS	-----
15.247(c)	A8.5	Occupied Bandwidth Measurement	PASS	-----
15.203	-	Antenna Requirement	PASS	-----

The test results of this report relate only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

1.2 Measurement Uncertainty

Conducted Emission

The measurement uncertainty is evaluated as ± 2.24 dB.

Radiated Emission

The measurement uncertainty of 30 MHz - 1GHz is evaluated as ± 3.072dB.

2 EUT Description

Product	:	Smartphone
Trade Name	:	HTC
Model No.	:	PB76100
Applicant	:	HTC Corporation No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan
Manufacturer	:	HTC Corporation No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan
FCC ID	:	NM8PB76100
Frequency Range	:	2412 ~ 2462 MHz
Modulation Type	:	IEEE 802.11b:DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g:DSSS(CCK, DQPSK, DBPSK)+ OFDM(QPSK, BPSK, 16-QAM, 64-QAM)
Antenna Type	:	PIFA Type
Antenna Gain	:	0.8 dBi
RF Output Power	:	IEEE 802.11b: 18.38 dBm / 0.069 W IEEE 802.11g: 22.72 dBm / 0.187 W

3 Test Methodology

3.1. Mode of Operation

Decision of Test 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:

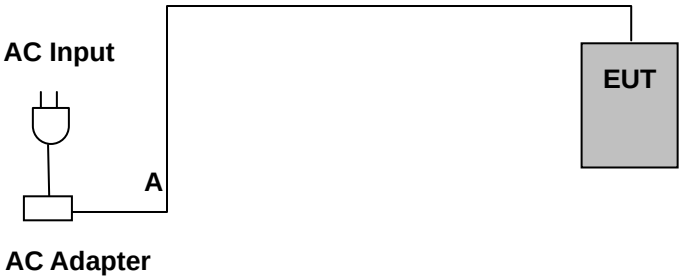
Pre-Test Mode
Mode 1: IDLE Mode
Mode 2: Normal Operation Mode
Mode 3: IEEE 802.11b Link Mode
Mode 4: IEEE 802.11g Link Mode
EUT Pre-Test Source
1. Sample 1st
2. Sample 2nd
AC Adapter Pre-Test Source
AC Adapter #1
AC Adapter #2
AC Adapter #3

Final-Test Mode
Mode 1: IDLE Mode
Mode 2: Normal Operation Mode
Mode 3: IEEE 802.11b Link Mode
Mode 4: IEEE 802.11g Link Mode
Final-Test of EUT Source
Sample 1st
Final -Test of AC Adapter Source
AC Adapter #2

3.2. EUT Exercise Software

1.	Setup the EUT shown on 3.3.
2.	Turn on the power of all equipment.
3.	Turn on Wi-Fi function link to AP.
4.	EUT run test program “HTC SSD Test-Ver.4.4.13.1.plat_2.0 ECLAIR-legend”.

3.3. Configuration of Test System Details



Signal Cable Type		Signal cable Description
A	AC Power Cable	Cable out: Shielded, 1.25 m

3.4. Test Site Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	25
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

4 Conducted Emission Measurement

4.1. Limit

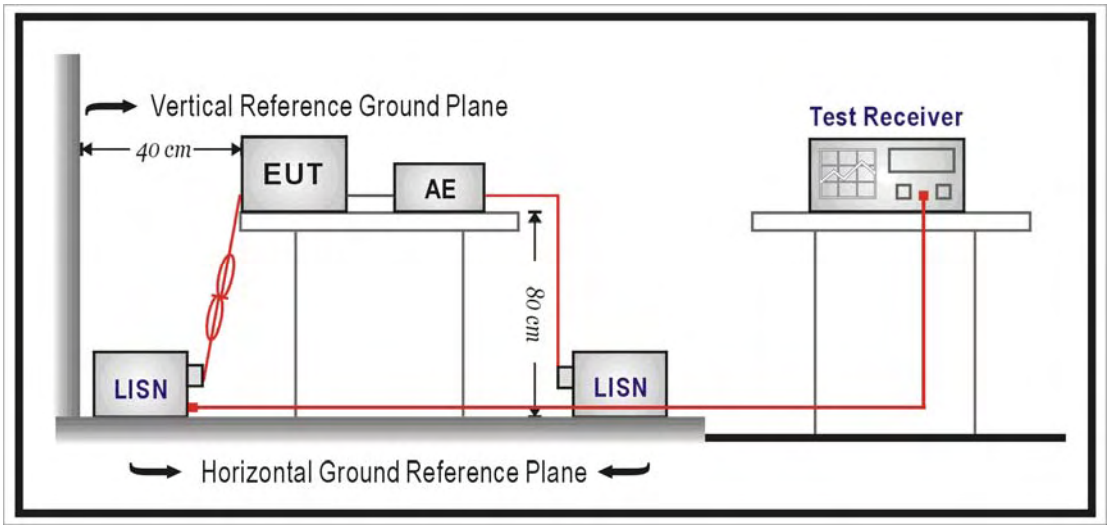
Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

4.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date
Test Receiver	R&S	ESCI	100367	07/01/2009
LISN	EMCO	3816/2 SH	00060110	06/05/2009
LISN	EMCO	3816/2 SH	00060111	06/29/2009
Transient Limiter	ELECTRO-METRICS	EM-7600	777	09/22/2009
Test Site	ATL	TE02	TE02	N.C.R.

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

4.3. Test Setup



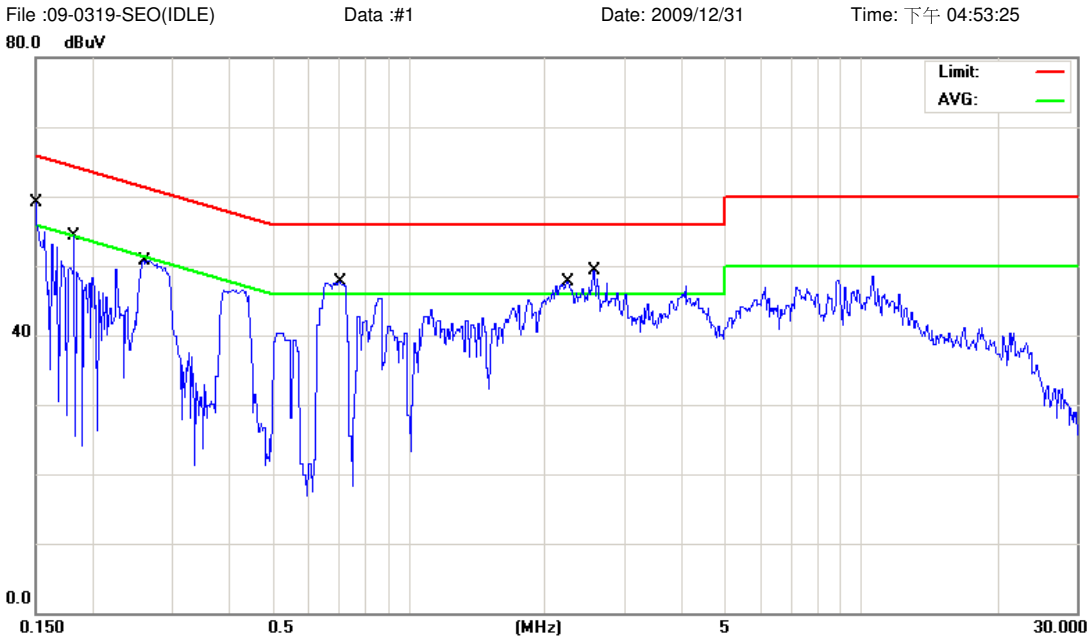
4.4. Test Procedure

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

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

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 4.1.

4.5. Test Result



Site : Conducted
Limit: CISPR22 Class B Conduction(QP)
EUT: Smartphone
M/N: PB76100
Mode: #1
Note: AC Adapter: #2

Phase: *L1*
Power: AC 120V/60Hz

Temperature: 26 ℃
Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	40.90	9.73	50.63	65.99	-15.36	QP	
2		0.1500	20.70	9.73	30.43	55.99	-25.56	AVG	
3		0.1822	27.80	9.74	37.54	64.38	-26.84	QP	
4		0.1822	7.00	9.74	16.74	54.38	-37.64	AVG	
5		0.2592	38.10	9.75	47.85	61.45	-13.60	QP	
6		0.2592	20.10	9.75	29.85	51.45	-21.60	AVG	
7	*	0.7070	34.40	9.80	44.20	56.00	-11.80	QP	
8		0.7070	17.10	9.80	26.90	46.00	-19.10	AVG	
9		2.2370	30.40	9.88	40.28	56.00	-15.72	QP	
10		2.2370	15.10	9.88	24.98	46.00	-21.02	AVG	
11		2.5610	31.80	9.93	41.73	56.00	-14.27	QP	
12		2.5610	21.40	9.93	31.33	46.00	-14.67	AVG	

*:Maximum data x:Over limit !:over margin ●Reference Only

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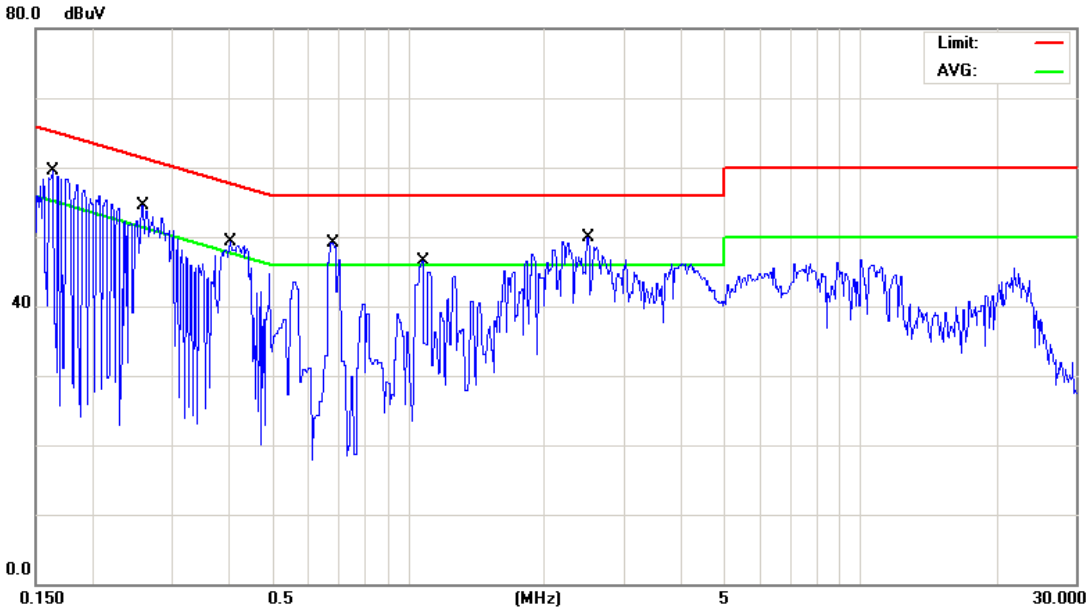


Site : Conducted Phase: *L2* Temperature: 26 ℃

Limit: CISPR22 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 55 %

EUT: Smartphone

M/N: PB76100

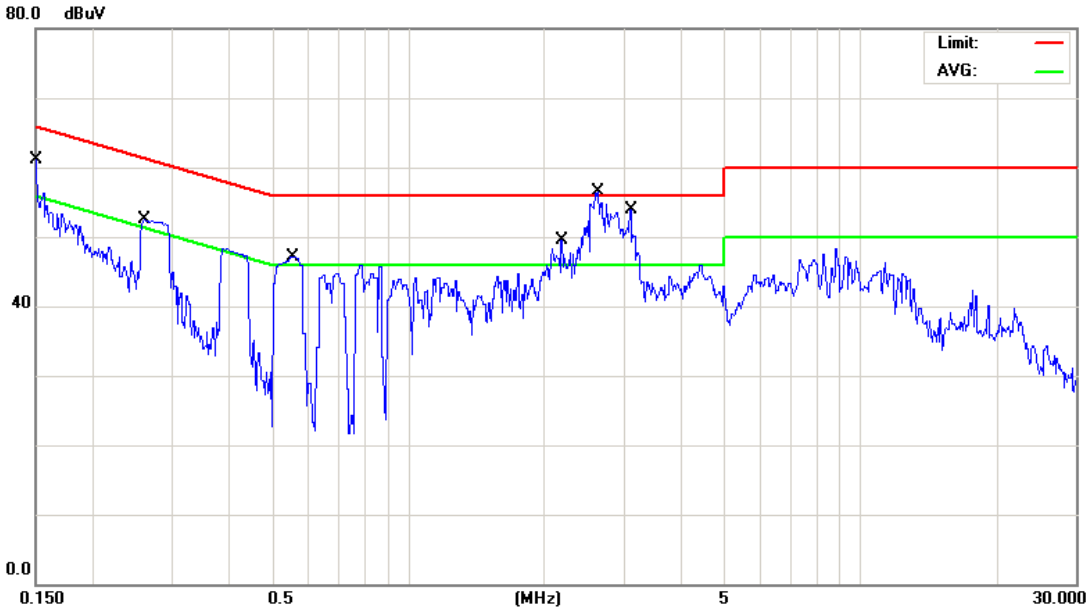
Mode: #1

Note: AC Adapter: #2

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1633	36.80	9.73	46.53	65.29	-18.76	QP	
2		0.1633	11.90	9.73	21.63	55.29	-33.66	AVG	
3		0.2578	37.40	9.75	47.15	61.50	-14.35	QP	
4		0.2578	15.70	9.75	25.45	51.50	-26.05	AVG	
5		0.4027	35.10	9.78	44.88	57.80	-12.92	QP	
6		0.4027	15.60	9.78	25.38	47.80	-22.42	AVG	
7	*	0.6800	35.10	9.79	44.89	56.00	-11.11	QP	
8		0.6800	12.80	9.79	22.59	46.00	-23.41	AVG	
9		1.0760	28.20	9.80	38.00	56.00	-18.00	QP	
10		1.0760	8.60	9.80	18.40	46.00	-27.60	AVG	
11		2.4890	31.71	9.87	41.58	56.00	-14.42	QP	
12		2.4890	18.61	9.87	28.48	46.00	-17.52	AVG	

*:Maximum data x:Over limit !:over margin ●Reference Only

File :09-0319-SEO(GSM850+WIFI+ Data :#1 Date: 2010/01/05 Time: 下午 03:17:08



Site : Conducted Phase: *L1* Temperature: 26 ℃

Limit: CISPR22 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 55 %

EUT: Smartphone

M/N: PB76100

Mode: #2

Note: AC Adapter: #2

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	44.60	9.73	54.33	65.99	-11.66	QP	
2		0.1500	24.00	9.73	33.73	55.99	-22.26	AVG	
3		0.2606	39.60	9.75	49.35	61.41	-12.06	QP	
4		0.2606	22.70	9.75	32.45	51.41	-18.96	AVG	
5		0.5540	34.70	9.79	44.49	56.00	-11.51	QP	
6		0.5540	18.00	9.79	27.79	46.00	-18.21	AVG	
7		2.1829	32.90	9.88	42.78	56.00	-13.22	QP	
8		2.1829	20.70	9.88	30.58	46.00	-15.42	AVG	
9	*	2.6330	40.00	9.93	49.93	56.00	-6.07	QP	
10		2.6330	28.20	9.93	38.13	46.00	-7.87	AVG	
11		3.0920	37.00	9.90	46.90	56.00	-9.10	QP	
12		3.0920	29.20	9.90	39.10	46.00	-6.90	AVG	

*:Maximum data x:Over limit !:over margin ●Reference Only

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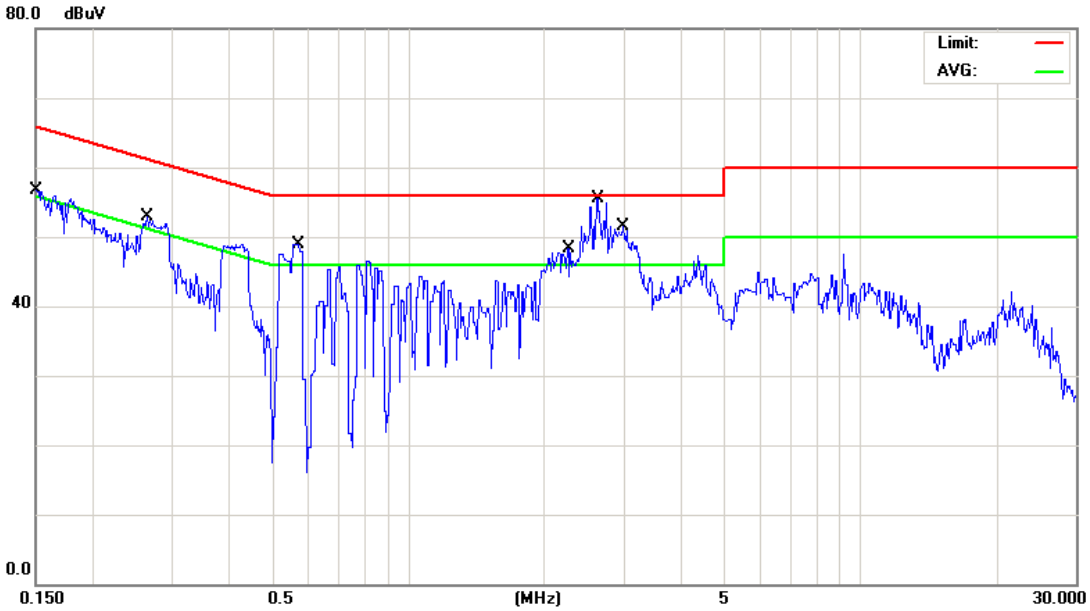


Site : Conducted Phase: *L2* Temperature: 26 ℃

Limit: CISPR22 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 55 %

EUT: Smartphone

M/N: PB76100

Mode: #2

Note: AC Adapter: #2

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	43.80	9.73	53.53	65.99	-12.46	QP	
2		0.1500	22.40	9.73	32.13	55.99	-23.86	AVG	
3		0.2641	39.40	9.75	49.15	61.30	-12.15	QP	
4		0.2641	21.60	9.75	31.35	51.30	-19.95	AVG	
5		0.5720	34.90	9.79	44.69	56.00	-11.31	QP	
6		0.5720	13.50	9.79	23.29	46.00	-22.71	AVG	
7		2.2550	31.00	9.88	40.88	56.00	-15.12	QP	
8		2.2550	18.90	9.88	28.78	46.00	-17.22	AVG	
9	*	2.6150	38.50	9.93	48.43	56.00	-7.57	QP	
10		2.6150	27.90	9.93	37.83	46.00	-8.17	AVG	
11		2.9930	38.40	9.89	48.29	56.00	-7.71	QP	
12		2.9930	28.40	9.89	38.29	46.00	-7.71	AVG	

*:Maximum data x:Over limit !:over margin ●Reference Only

5 Radiated Interference Measurement

5.1. Limit

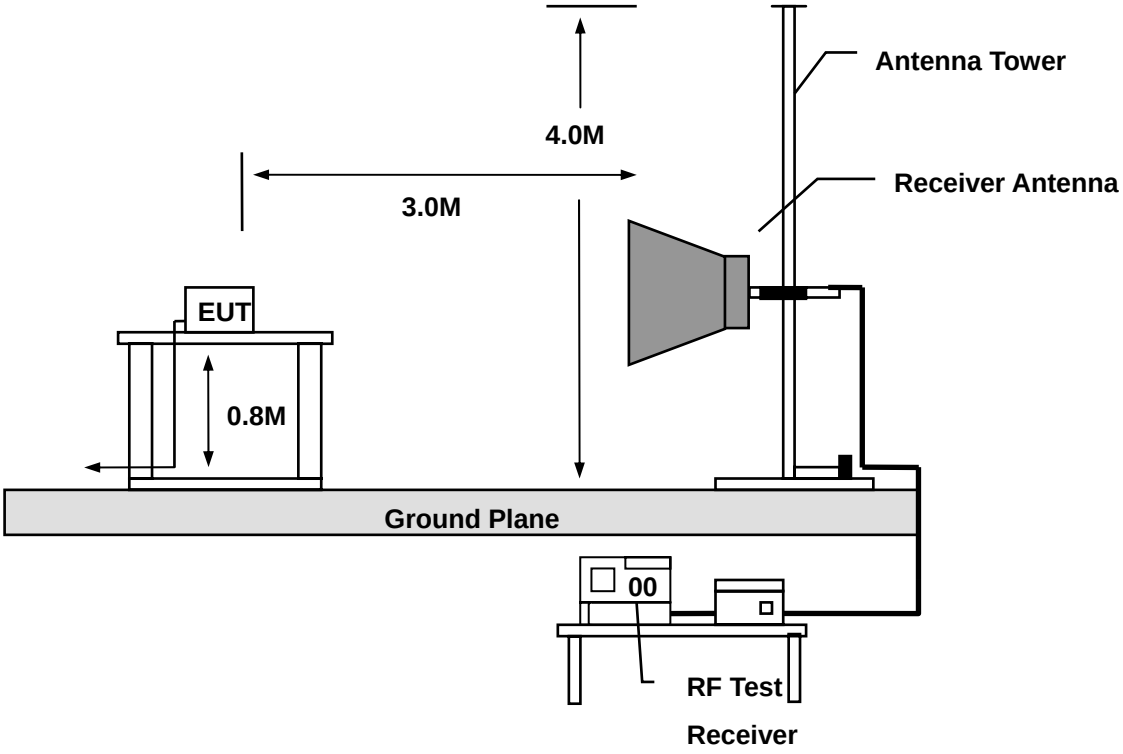
Frequency Range (MHz)	Peak (dBuV)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54

5.2. Test Instruments

3 Meter Chamber				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date**
RF Pre-selector	Agilent	N9039A	MY46520256	01/27/2009
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/20/2009
Pre Amplifier	Agilent	8449B	3008A02237	07/01/2009
Pre Amplifier	Agilent	8447D	2944A10961	06/30/2009
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	06/23/2009
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	07/01/2009
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/30/2009
Test Site	ATL	TE01	TE01	N.C.R.

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

5.3. Setup



5.4. 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 tree 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 (mode 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 pre meter (uV/m).

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

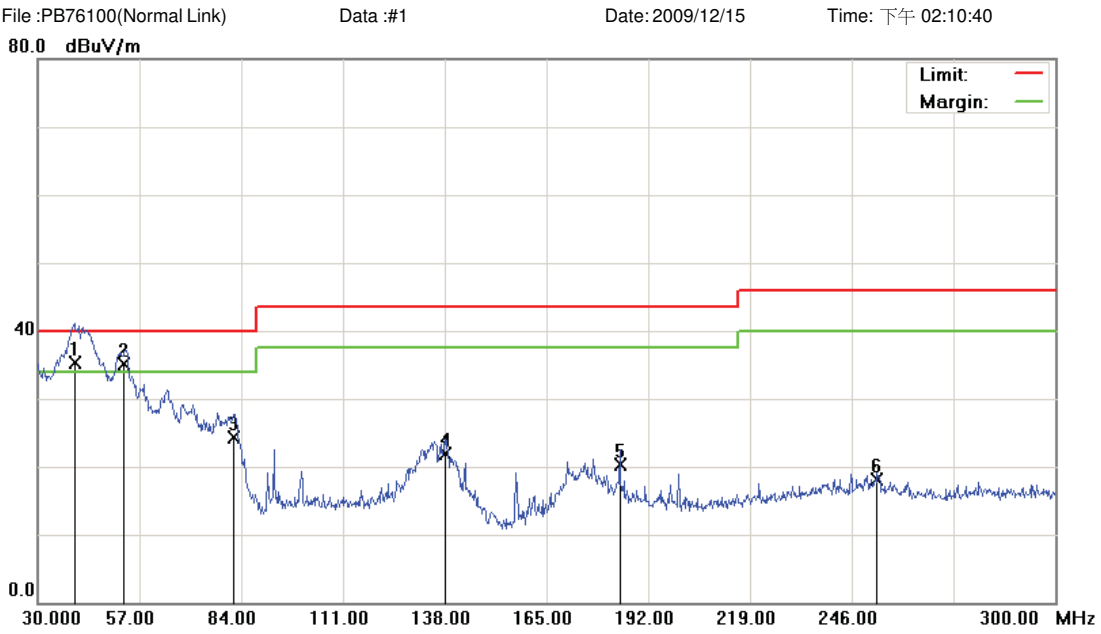
The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

(1) 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) 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

5.5. Test Result

5.5.1. Below 1GHz



Site: : 966 Chamber
Limit: FCC Class B 3M Radiation
EUT: Smartphone
M/N: PB76100
Mode: #2
Note: AC Adapter: #2

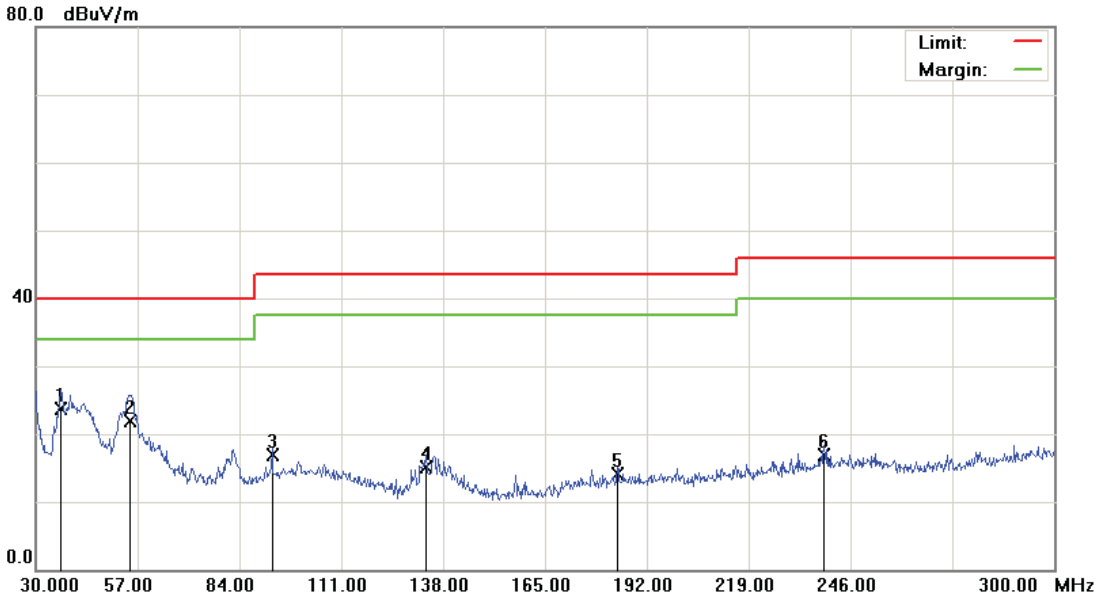
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	39.7200	47.18	-11.96	35.22	40.00	-4.78	QP			
2	!	52.9500	47.28	-12.19	35.09	40.00	-4.91	QP			
3		82.1100	40.12	-15.78	24.34	40.00	-15.66	QP			
4		138.0000	38.17	-16.20	21.97	43.50	-21.53	QP			
5		184.4400	34.23	-13.87	20.36	43.50	-23.14	QP			
6		252.7500	29.15	-11.01	18.14	46.00	-27.86	QP			

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

File :PB76100(Normal Link) Data :#3 Date: 2009/12/15 Time: 下午 02:18:07



Site: : 966 Chamber
Limit: FCC Class B 3M Radiation
EUT: Smartphone
M/N: PB76100
Mode: #2
Note: AC Adapter: #2

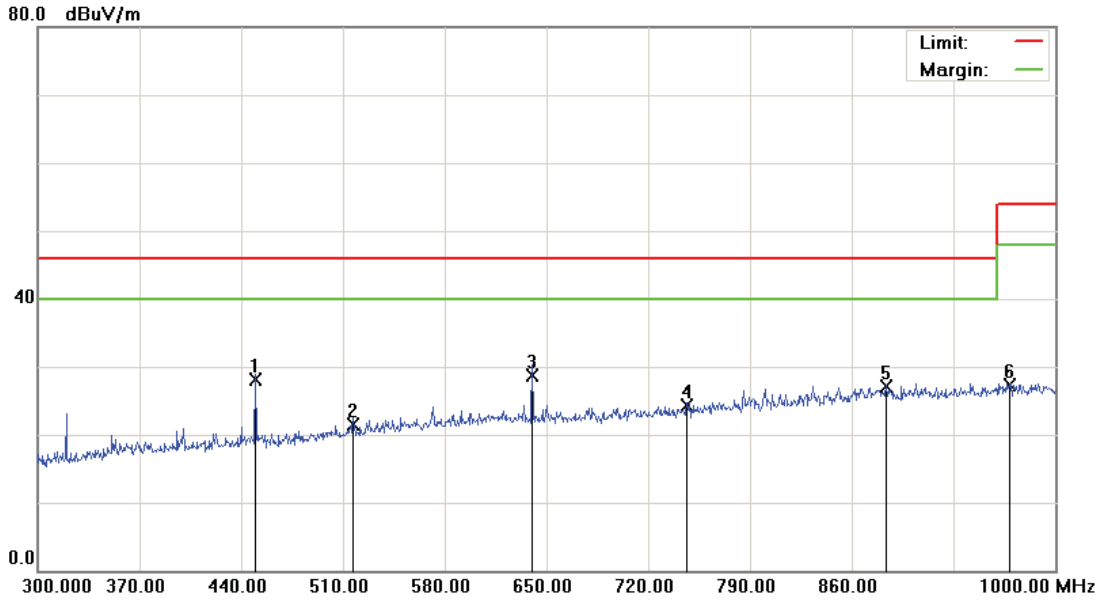
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	36.7500	36.53	-12.73	23.80	40.00	-16.20	QP			
2		55.1100	34.12	-12.22	21.90	40.00	-18.10	QP			
3		92.6400	29.38	-12.57	16.81	43.50	-26.69	QP			
4		133.4100	31.05	-15.86	15.19	43.50	-28.31	QP			
5		184.1700	28.02	-13.89	14.13	43.50	-29.37	QP			
6		238.9800	28.38	-11.49	16.89	46.00	-29.11	QP			

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

File :PB76100(Normal Link) Data :#2 Date: 2009/12/15 Time: 下午 02:14:23



Site: : 966 Chamber
Limit: FCC Class B 3M Radiation
EUT: Smartphone
M/N: PB76100
Mode: #2
Note: AC Adapter: #2

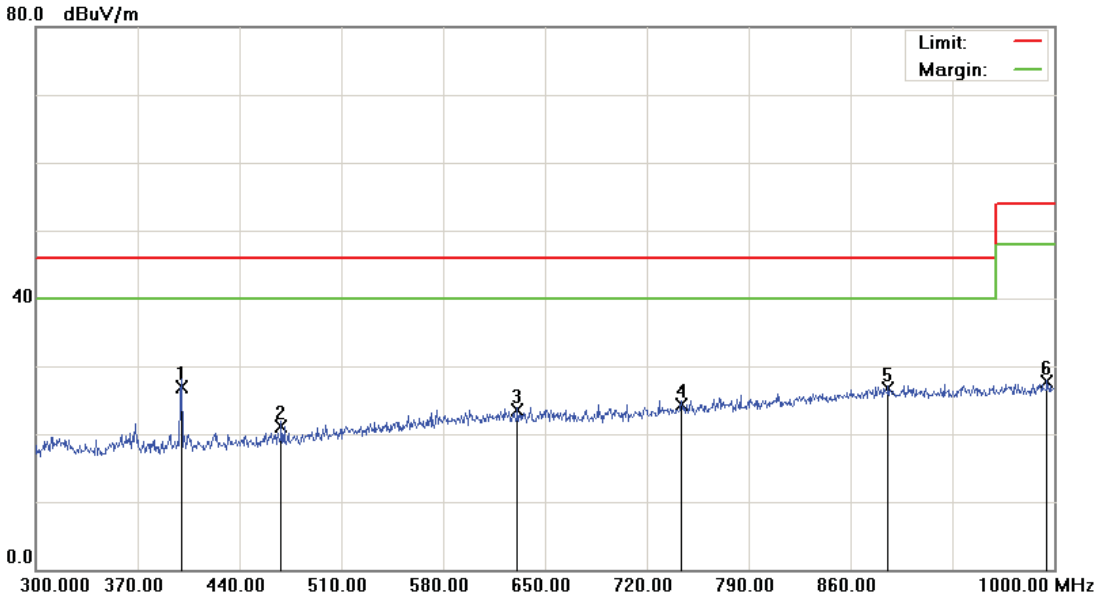
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		449.8000	36.35	-8.15	28.20	46.00	-17.80	QP			
2		517.0000	28.05	-6.48	21.57	46.00	-24.43	QP			
3	*	640.2000	33.12	-4.46	28.66	46.00	-17.34	QP			
4		746.6000	27.51	-3.11	24.40	46.00	-21.60	QP			
5		883.8000	27.31	-0.26	27.05	46.00	-18.95	QP			
6		968.5000	26.52	0.72	27.24	54.00	-26.76	QP			

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

File :PB76100(Normal Link) Data :#4 Date: 2009/12/15 Time: 下午 02:21:51



Site: : 966 Chamber
Limit: FCC Class B 3M Radiation
EUT: Smartphone
M/N: PB76100
Mode: #2
Note: AC Adapter: #2

Polarization: *Horizontal*
Power:
Distance: 3m

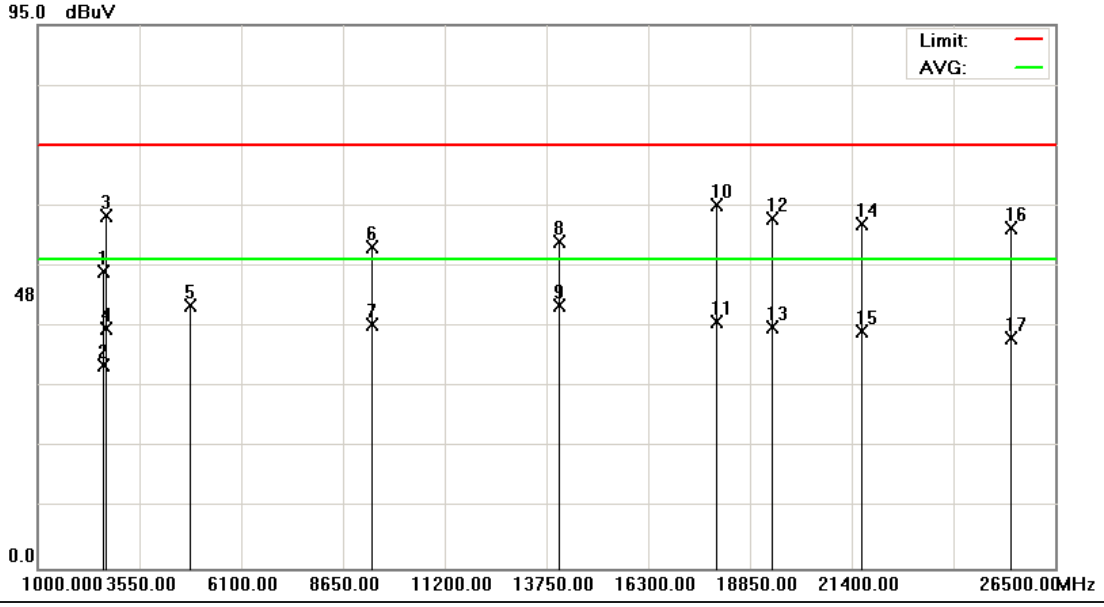
Temperature: 22 ℃
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	400.1000	35.25	-8.33	26.92	46.00	-19.08	QP			
2		468.7000	28.93	-7.75	21.18	46.00	-24.82	QP			
3		631.1000	27.78	-4.36	23.42	46.00	-22.58	QP			
4		743.8000	27.38	-3.15	24.23	46.00	-21.77	QP			
5		885.9000	27.01	-0.25	26.76	46.00	-19.24	QP			
6		995.1000	26.96	0.78	27.74	54.00	-26.26	QP			

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

5.5.2. Above 1GHz

File :PB76100(2412MHZ) Data :#17 Date: 2009/12/15 Time: 上午 10:24:08



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #3
Note: 2412MHz, AC Adapter: #2

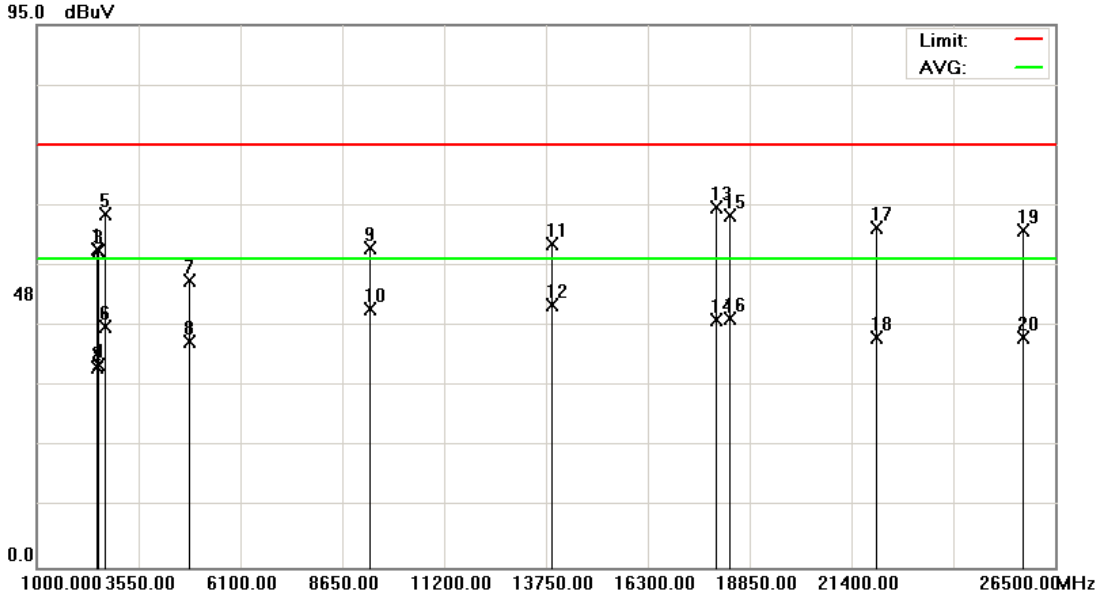
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2647.300	50.90	0.97	51.87	74.00	-22.13	peak			
2		2647.300	34.63	0.97	35.60	54.00	-18.40	AVG			
3		2700.000	39.11	22.58	61.69	74.00	-12.31	peak			
4		2700.000	19.40	22.58	41.98	54.00	-12.02	AVG			
5		4804.000	38.74	7.32	46.06	74.00	-27.94	peak			
6		9361.250	39.15	16.98	56.13	74.00	-17.87	peak			
7		9361.250	25.64	16.98	42.62	54.00	-11.38	AVG			
8		14080.000	38.28	18.81	57.09	74.00	-16.91	peak			
9	*	14080.000	27.06	18.81	45.87	54.00	-8.13	AVG			
10		18000.000	38.06	25.57	63.63	74.00	-10.37	peak			
11		18000.000	17.54	25.57	43.11	54.00	-10.89	AVG			
12		19402.500	38.43	22.80	61.23	74.00	-12.77	peak			
13		19402.500	19.37	22.80	42.17	54.00	-11.83	AVG			
14		21633.750	38.82	21.28	60.10	74.00	-13.90	peak			
15		21633.750	20.13	21.28	41.41	54.00	-12.59	AVG			
16		25395.000	40.43	19.04	59.47	74.00	-14.53	peak			
17		25395.000	21.27	19.04	40.31	54.00	-13.69	AVG			

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

File :PB76100(2412MHZ) Data :#18 Date: 2009/12/15 Time: 上午 10:27:31



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #3
Note: 2412MHz, AC Adapter: #2

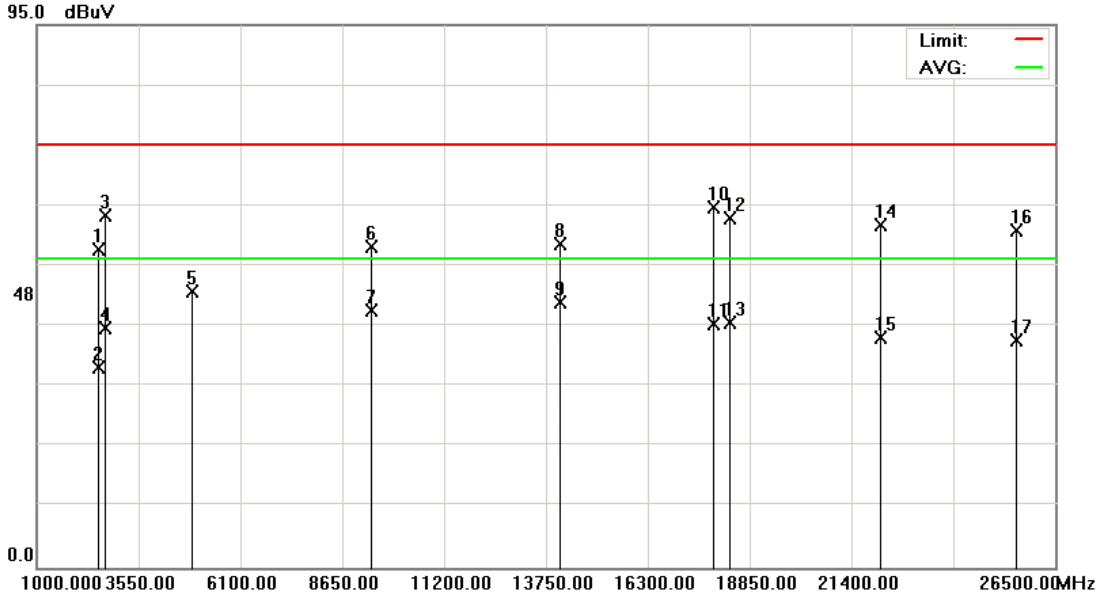
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2494.300	55.50	0.26	55.76	74.00	-18.24	peak			
2		2494.300	34.69	0.26	34.95	54.00	-19.05	AVG			
3		2528.300	55.01	0.45	55.46	74.00	-18.54	peak			
4		2528.300	35.12	0.45	35.57	54.00	-18.43	AVG			
5		2700.000	39.36	22.58	61.94	74.00	-12.06	peak			
6		2700.000	19.53	22.58	42.11	54.00	-11.89	AVG			
7		4817.000	42.75	7.42	50.17	74.00	-23.83	peak			
8		4817.000	32.21	7.42	39.63	54.00	-14.37	AVG			
9		9324.750	39.03	16.91	55.94	74.00	-18.06	peak			
10		9324.750	28.37	16.91	45.28	54.00	-8.72	AVG			
11		13880.000	38.37	18.38	56.75	74.00	-17.25	peak			
12	*	13880.000	27.68	18.38	46.06	54.00	-7.94	AVG			
13		18000.000	37.43	25.57	63.00	74.00	-11.00	peak			
14		18000.000	17.83	25.57	43.40	54.00	-10.60	AVG			
15		18340.000	38.52	23.18	61.70	74.00	-12.30	peak			
16		18340.000	20.31	23.18	43.49	54.00	-10.51	AVG			
17		22037.500	38.49	21.09	59.58	74.00	-14.42	peak			
18		22037.500	19.13	21.09	40.22	54.00	-13.78	AVG			
19		25671.250	40.11	18.85	58.96	74.00	-15.04	peak			
20		25671.250	21.46	18.85	40.31	54.00	-13.69	AVG			

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

File :PB76100(2437MHZ) Data :#17 Date: 2009/12/15 Time: 上午 10:21:59



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #3
Note: 2437MHz, AC Adapter: #2

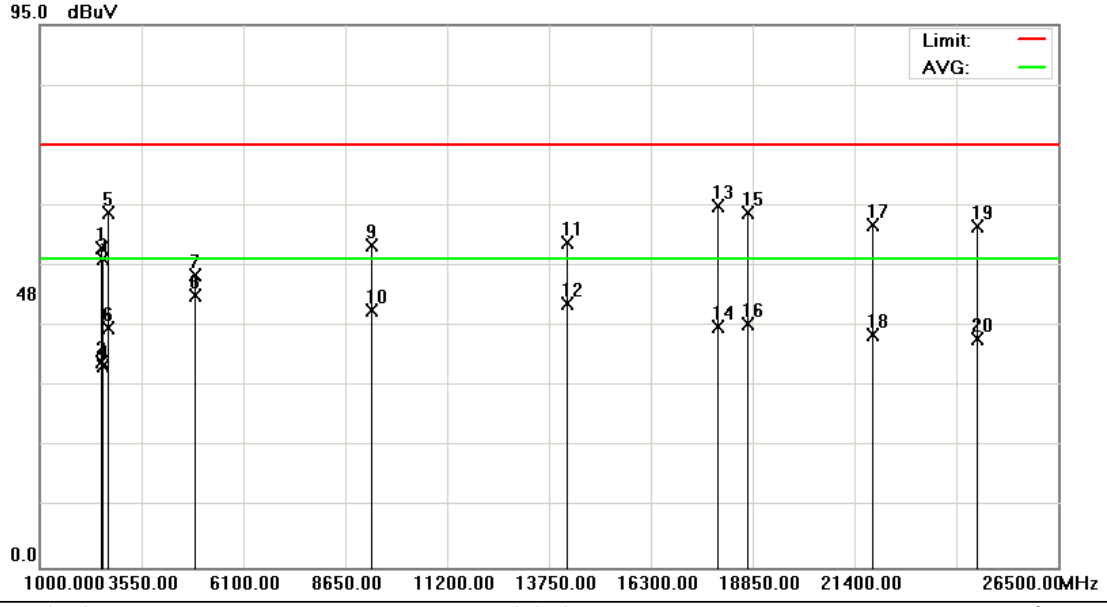
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2555.500	55.35	0.40	55.75	74.00	-18.25	peak			
2		2555.500	34.62	0.40	35.02	54.00	-18.98	AVG			
3		2700.000	39.05	22.58	61.63	74.00	-12.37	peak			
4		2700.000	19.32	22.58	41.90	54.00	-12.10	AVG			
5		4871.750	40.67	7.72	48.39	74.00	-25.61	peak			
6		9343.000	39.28	16.93	56.21	74.00	-17.79	peak			
7		9343.000	28.01	16.93	44.94	54.00	-9.06	AVG			
8		14100.000	37.65	18.90	56.55	74.00	-17.45	peak			
9	*	14100.000	27.63	18.90	46.53	54.00	-7.47	AVG			
10		17940.000	38.24	24.71	62.95	74.00	-11.05	peak			
11		17940.000	17.96	24.71	42.67	54.00	-11.33	AVG			
12		18361.250	38.10	23.16	61.26	74.00	-12.74	peak			
13		18361.250	19.77	23.16	42.93	54.00	-11.07	AVG			
14		22122.500	38.90	21.05	59.95	74.00	-14.05	peak			
15		22122.500	19.32	21.05	40.37	54.00	-13.63	AVG			
16		25522.500	40.12	18.97	59.09	74.00	-14.91	peak			
17		25522.500	20.75	18.97	39.72	54.00	-14.28	AVG			

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

File :PB76100(2437MHZ) Data :#18 Date: 2009/12/15 Time: 上午 10:56:03



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #3
Note: 2437MHz, AC Adapter: #2

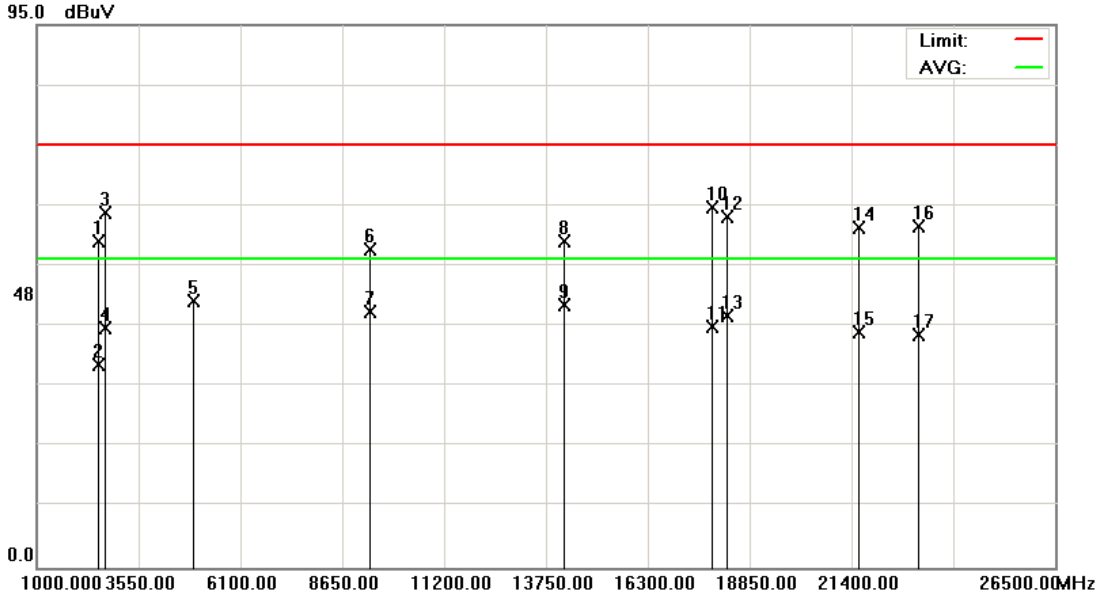
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2518.100	55.60	0.40	56.00	74.00	-18.00	peak			
2		2518.100	35.61	0.40	36.01	54.00	-17.99	AVG			
3		2560.600	53.63	0.45	54.08	74.00	-19.92	peak			
4		2560.600	34.75	0.45	35.20	54.00	-18.80	AVG			
5		2700.000	39.50	22.58	62.08	74.00	-11.92	peak			
6		2700.000	19.28	22.58	41.86	54.00	-12.14	AVG			
7		4871.750	43.47	7.72	51.19	74.00	-22.81	peak			
8	*	4871.750	39.92	7.72	47.64	54.00	-6.36	AVG			
9		9306.500	39.41	16.89	56.30	74.00	-17.70	peak			
10		9306.500	28.08	16.89	44.97	54.00	-9.03	AVG			
11		14200.000	38.03	18.86	56.89	74.00	-17.11	peak			
12		14200.000	27.42	18.86	46.28	54.00	-7.72	AVG			
13		17980.000	38.12	25.21	63.33	74.00	-10.67	peak			
14		17980.000	17.02	25.21	42.23	54.00	-11.77	AVG			
15		18701.250	39.05	23.11	62.16	74.00	-11.84	peak			
16		18701.250	19.61	23.11	42.72	54.00	-11.28	AVG			
17		21846.250	38.77	21.20	59.97	74.00	-14.03	peak			
18		21846.250	19.60	21.20	40.80	54.00	-13.20	AVG			
19		24460.000	40.16	19.69	59.85	74.00	-14.15	peak			
20		24460.000	20.37	19.69	40.06	54.00	-13.94	AVG			

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

File :PB76100(2462MHZ) Data :#17 Date: 2009/12/15 Time: 上午 10:19:31



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #3
Note: 2462MHz, AC Adapter: #2

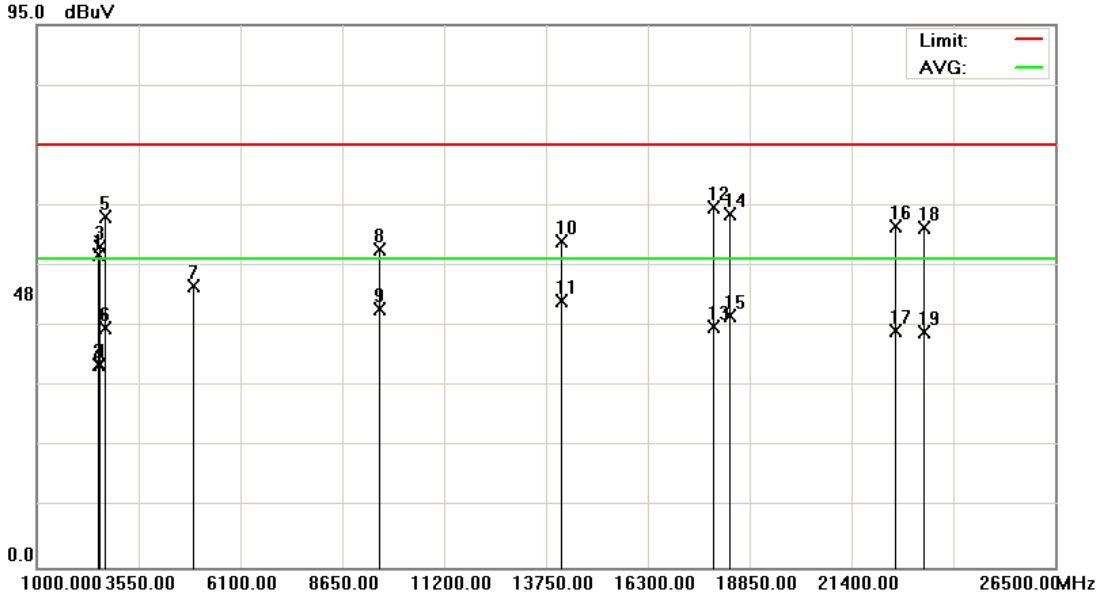
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2543.600	56.59	0.43	57.02	74.00	-16.98	peak			
2		2543.600	35.16	0.43	35.59	54.00	-18.41	AVG			
3		2700.000	39.58	22.58	62.16	74.00	-11.84	peak			
4		2700.000	19.30	22.58	41.88	54.00	-12.12	AVG			
5		4924.000	39.08	7.65	46.73	74.00	-27.27	peak			
6		9324.750	38.78	16.91	55.69	74.00	-18.31	peak			
7		9324.750	27.89	16.91	44.80	54.00	-9.20	AVG			
8		14200.000	38.33	18.86	57.19	74.00	-16.81	peak			
9	*	14200.000	27.21	18.86	46.07	54.00	-7.93	AVG			
10		17900.000	38.11	24.96	63.07	74.00	-10.93	peak			
11		17900.000	17.25	24.96	42.21	54.00	-11.79	AVG			
12		18276.250	38.16	23.21	61.37	74.00	-12.63	peak			
13		18276.250	20.91	23.21	44.12	54.00	-9.88	AVG			
14		21570.000	38.28	21.31	59.59	74.00	-14.41	peak			
15		21570.000	19.81	21.31	41.12	54.00	-12.88	AVG			
16		23078.750	38.98	20.84	59.82	74.00	-14.18	peak			
17		23078.750	19.96	20.84	40.80	54.00	-13.20	AVG			

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

File :PB76100(2462MHZ) Data :#18 Date: 2009/12/15 Time: 上午 11:21:29



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #3
Note: 2462MHz, AC Adapter: #2

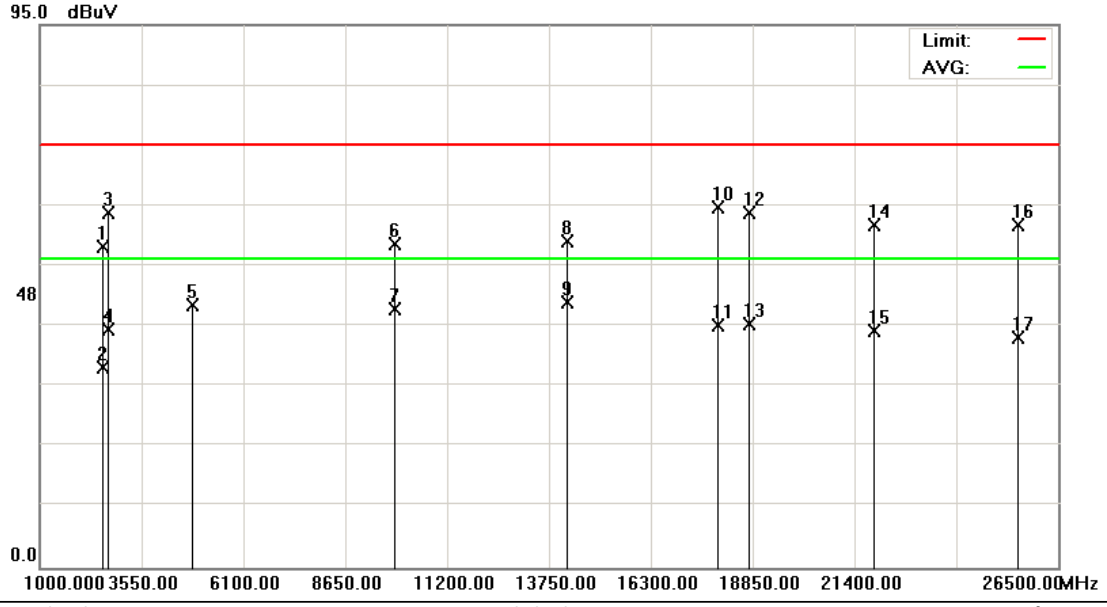
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2541.900	54.35	0.45	54.80	74.00	-19.20	peak			
2		2541.900	35.12	0.45	35.57	54.00	-18.43	AVG			
3		2579.300	55.49	0.62	56.11	74.00	-17.89	peak			
4		2579.300	34.89	0.62	35.51	54.00	-18.49	AVG			
5		2700.000	38.72	22.58	61.30	74.00	-12.70	peak			
6		2700.000	19.23	22.58	41.81	54.00	-12.19	AVG			
7		4926.500	41.52	7.66	49.18	74.00	-24.82	peak			
8		9562.000	38.55	17.21	55.76	74.00	-18.24	peak			
9		9562.000	28.10	17.21	45.31	54.00	-8.69	AVG			
10		14120.000	38.30	18.87	57.17	74.00	-16.83	peak			
11	*	14120.000	27.80	18.87	46.67	54.00	-7.33	AVG			
12		17920.000	38.29	24.84	63.13	74.00	-10.87	peak			
13		17920.000	17.43	24.84	42.27	54.00	-11.73	AVG			
14		18340.000	38.71	23.18	61.89	74.00	-12.11	peak			
15		18340.000	20.86	23.18	44.04	54.00	-9.96	AVG			
16		22483.750	38.74	20.90	59.64	74.00	-14.36	peak			
17		22483.750	20.45	20.90	41.35	54.00	-12.65	AVG			
18		23206.250	38.65	20.81	59.46	74.00	-14.54	peak			
19		23206.250	20.37	20.81	41.18	54.00	-12.82	AVG			

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

File :PB76100(2412MHZ) Data :#17 Date: 2009/12/15 Time: 下午 12:17:06



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #4
Note: 2412MHz, AC Adapter: #2

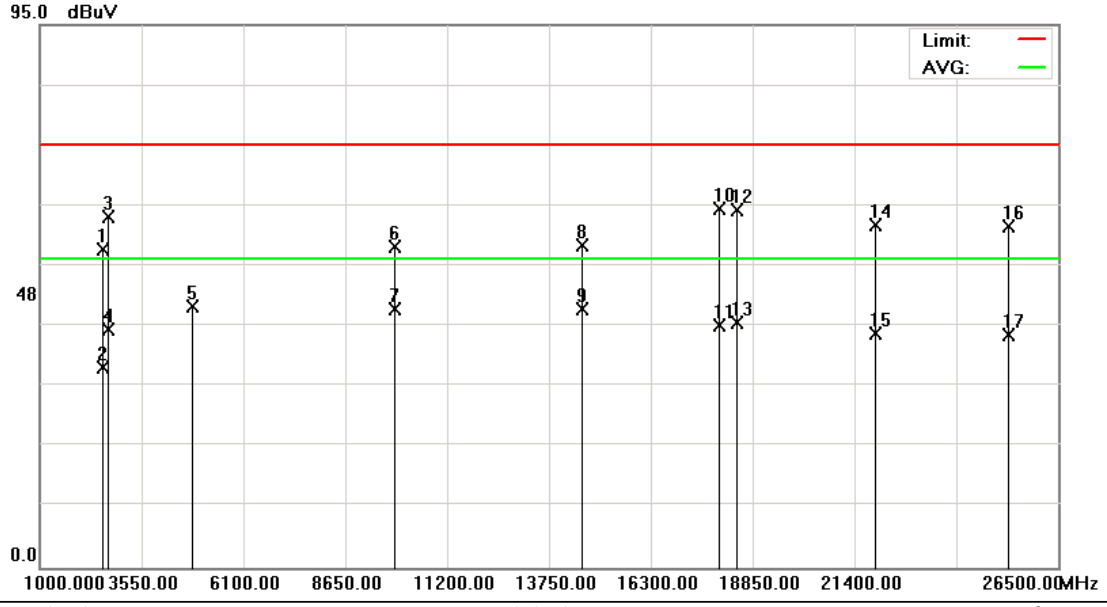
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2570.800	55.65	0.53	56.18	74.00	-17.82	peak			
2		2570.800	34.42	0.53	34.95	54.00	-19.05	AVG			
3		2700.000	39.45	22.58	62.03	74.00	-11.97	peak			
4		2700.000	19.10	22.58	41.68	54.00	-12.32	AVG			
5		4824.000	38.38	7.48	45.86	74.00	-28.14	peak			
6		9890.500	38.78	17.80	56.58	74.00	-17.42	peak			
7		9890.500	27.44	17.80	45.24	54.00	-8.76	AVG			
8		14200.000	38.27	18.86	57.13	74.00	-16.87	peak			
9	*	14200.000	27.65	18.86	46.51	54.00	-7.49	AVG			
10		17980.000	37.82	25.21	63.03	74.00	-10.97	peak			
11		17980.000	17.15	25.21	42.36	54.00	-11.64	AVG			
12		18765.000	38.88	23.13	62.01	74.00	-11.99	peak			
13		18765.000	19.61	23.13	42.74	54.00	-11.26	AVG			
14		21867.500	38.70	21.19	59.89	74.00	-14.11	peak			
15		21867.500	20.15	21.19	41.34	54.00	-12.66	AVG			
16		25480.000	41.04	18.99	60.03	74.00	-13.97	peak			
17		25480.000	21.27	18.99	40.26	54.00	-13.74	AVG			

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

File :PB76100(2412MHZ) Data :#18 Date: 2009/12/15 Time: 下午 01:31:40



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #4
Note: 2412MHz, AC Adapter: #2, AC Adapter: #2

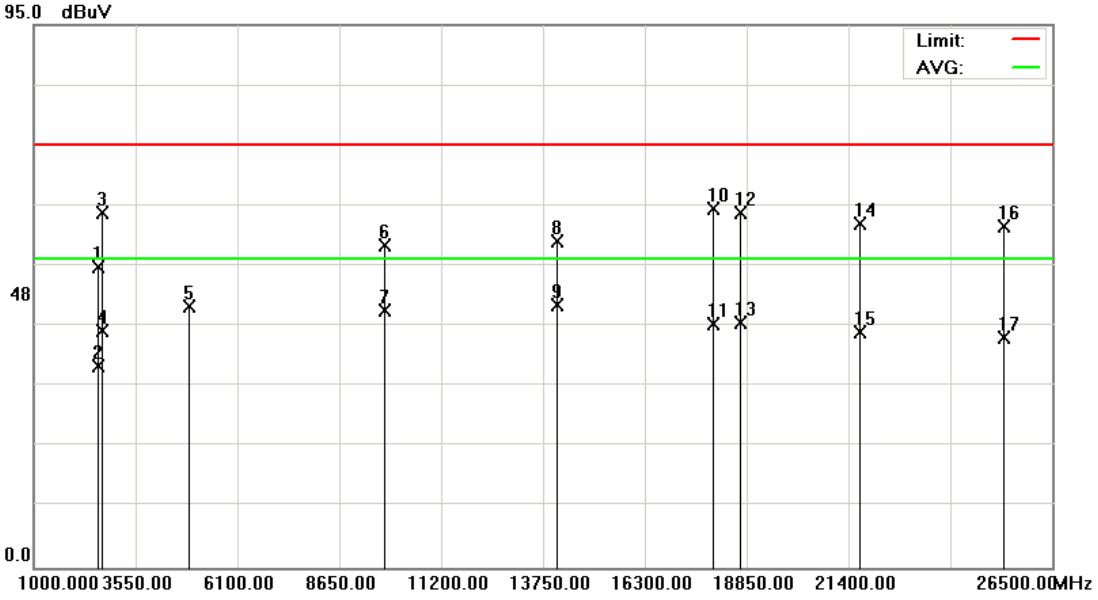
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2570.800	55.24	0.53	55.77	74.00	-18.23	peak			
2		2570.800	34.48	0.53	35.01	54.00	-18.99	AVG			
3		2700.000	38.82	22.58	61.40	74.00	-12.60	peak			
4		2700.000	19.11	22.58	41.69	54.00	-12.31	AVG			
5		4824.000	38.16	7.48	45.64	74.00	-28.36	peak			
6		9872.250	38.40	17.84	56.24	74.00	-17.76	peak			
7	*	9872.250	27.45	17.84	45.29	54.00	-8.71	AVG			
8		14560.000	38.60	17.79	56.39	74.00	-17.61	peak			
9		14560.000	27.41	17.79	45.20	54.00	-8.80	AVG			
10		18000.000	37.30	25.57	62.87	74.00	-11.13	peak			
11		18000.000	16.89	25.57	42.46	54.00	-11.54	AVG			
12		18467.500	39.40	23.12	62.52	74.00	-11.48	peak			
13		18467.500	19.73	23.12	42.85	54.00	-11.15	AVG			
14		21888.750	38.69	21.18	59.87	74.00	-14.13	peak			
15		21888.750	19.83	21.18	41.01	54.00	-12.99	AVG			
16		25246.250	40.59	19.14	59.73	74.00	-14.27	peak			
17		25246.250	21.54	19.14	40.68	54.00	-13.32	AVG			

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

File :PB76100(2437MHZ) Data :#17 Date: 2009/12/15 Time: 下午 12:19:10



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #4
Note: 2437MHz

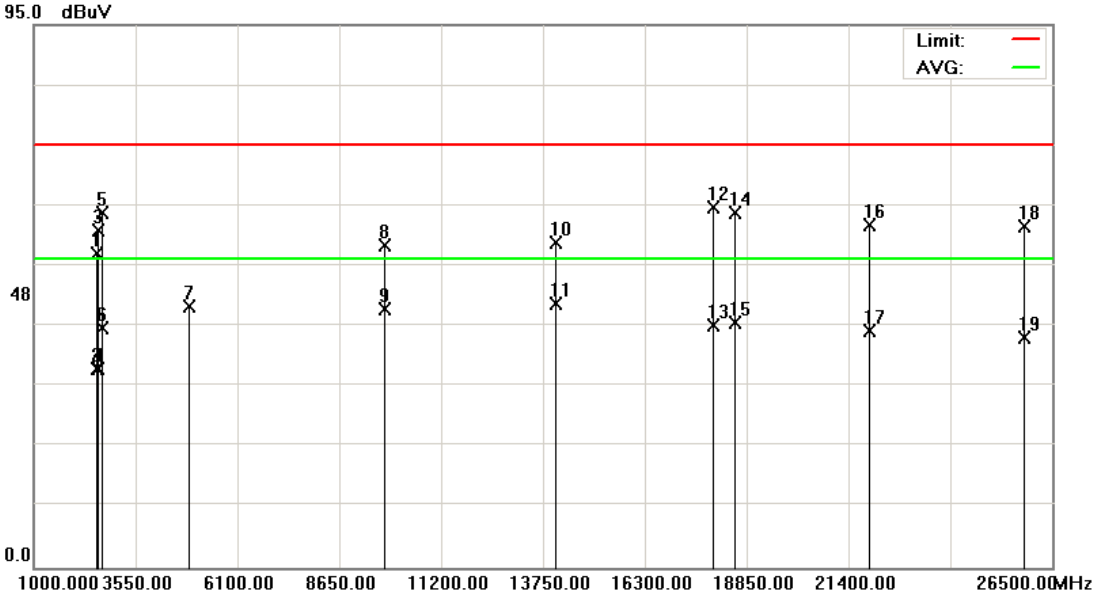
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2596.300	52.14	0.54	52.68	74.00	-21.32	peak			
2		2596.300	34.68	0.54	35.22	54.00	-18.78	AVG			
3		2700.000	39.63	22.58	62.21	74.00	-11.79	peak			
4		2700.000	18.96	22.58	41.54	54.00	-12.46	AVG			
5		4874.000	38.01	7.72	45.73	74.00	-28.27	peak			
6		9762.750	38.70	17.70	56.40	74.00	-17.60	peak			
7		9762.750	27.28	17.70	44.98	54.00	-9.02	AVG			
8		14100.000	38.17	18.90	57.07	74.00	-16.93	peak			
9	*	14100.000	27.15	18.90	46.05	54.00	-7.95	AVG			
10		18000.000	37.33	25.57	62.90	74.00	-11.10	peak			
11		18000.000	17.12	25.57	42.69	54.00	-11.31	AVG			
12		18680.000	39.01	23.09	62.10	74.00	-11.90	peak			
13		18680.000	19.75	23.09	42.84	54.00	-11.16	AVG			
14		21676.250	38.89	21.25	60.14	74.00	-13.86	peak			
15		21676.250	19.90	21.25	41.15	54.00	-12.85	AVG			
16		25288.750	40.57	19.11	59.68	74.00	-14.32	peak			
17		25288.750	21.20	19.11	40.31	54.00	-13.69	AVG			

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

File :PB76100(2437MHZ) Data :#18 Date: 2009/12/15 Time: 下午 12:55:44



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #4
Note: 2437MHz, AC Adapter: #2

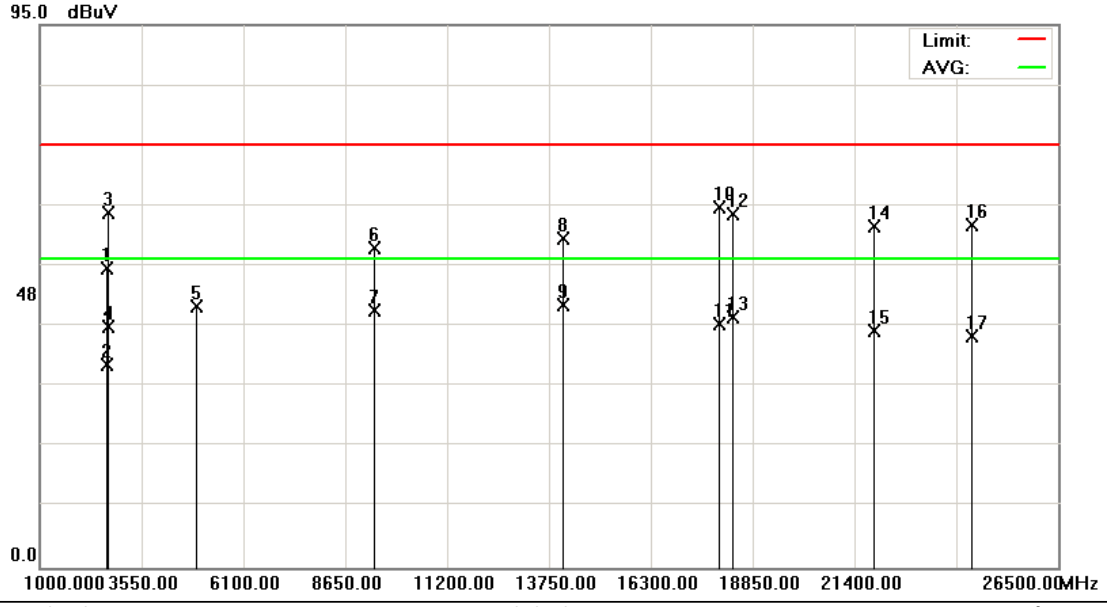
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2557.200	54.52	0.42	54.94	74.00	-19.06	peak			
2		2557.200	34.48	0.42	34.90	54.00	-19.10	AVG			
3		2591.200	58.61	0.47	59.08	74.00	-14.92	peak			
4		2591.200	34.41	0.47	34.88	54.00	-19.12	AVG			
5		2700.000	39.41	22.58	61.99	74.00	-12.01	peak			
6		2700.000	19.41	22.58	41.99	54.00	-12.01	AVG			
7		4874.000	38.04	7.72	45.76	74.00	-28.24	peak			
8		9781.000	38.69	17.69	56.38	74.00	-17.62	peak			
9		9781.000	27.56	17.69	45.25	54.00	-8.75	AVG			
10		14080.000	38.10	18.81	56.91	74.00	-17.09	peak			
11	*	14080.000	27.42	18.81	46.23	54.00	-7.77	AVG			
12		18000.000	37.52	25.57	63.09	74.00	-10.91	peak			
13		18000.000	16.89	25.57	42.46	54.00	-11.54	AVG			
14		18552.500	38.91	23.08	61.99	74.00	-12.01	peak			
15		18552.500	19.81	23.08	42.89	54.00	-11.11	AVG			
16		21888.750	38.80	21.18	59.98	74.00	-14.02	peak			
17		21888.750	20.28	21.18	41.46	54.00	-12.54	AVG			
18		25777.500	40.94	18.74	59.68	74.00	-14.32	peak			
19		25777.500	21.59	18.74	40.33	54.00	-13.67	AVG			

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

File :PB76100(2462MHZ) Data :#17 Date: 2009/12/15 Time: 下午 12:23:25



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #4
Note: 2462MHz, AC Adapter: #2

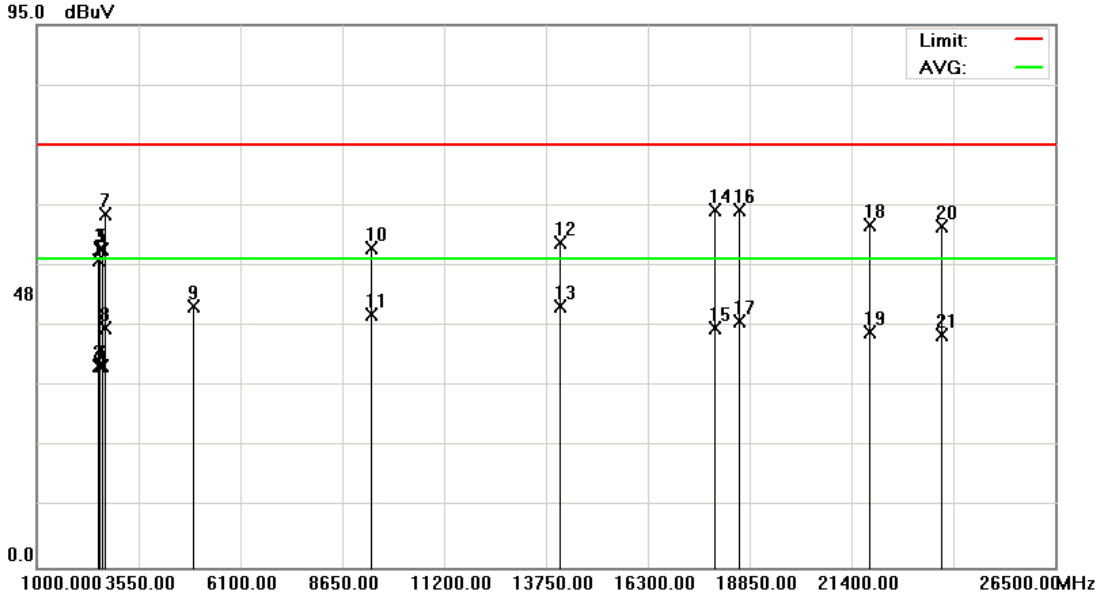
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2664.300	51.52	0.96	52.48	74.00	-21.52	peak			
2		2664.300	34.51	0.96	35.47	54.00	-18.53	AVG			
3		2700.000	39.61	22.58	62.19	74.00	-11.81	peak			
4		2700.000	19.63	22.58	42.21	54.00	-11.79	AVG			
5		4924.000	38.07	7.65	45.72	74.00	-28.28	peak			
6		9379.500	38.87	17.03	55.90	74.00	-18.10	peak			
7		9379.500	27.87	17.03	44.90	54.00	-9.10	AVG			
8		14100.000	38.67	18.90	57.57	74.00	-16.43	peak			
9	*	14100.000	26.95	18.90	45.85	54.00	-8.15	AVG			
10		18000.000	37.59	25.57	63.16	74.00	-10.84	peak			
11		18000.000	17.17	25.57	42.74	54.00	-11.26	AVG			
12		18318.750	38.77	23.19	61.96	74.00	-12.04	peak			
13		18318.750	20.64	23.19	43.83	54.00	-10.17	AVG			
14		21867.500	38.59	21.19	59.78	74.00	-14.22	peak			
15		21867.500	20.15	21.19	41.34	54.00	-12.66	AVG			
16		24332.500	40.23	19.76	59.99	74.00	-14.01	peak			
17		24332.500	20.72	19.76	40.48	54.00	-13.52	AVG			

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

File :PB76100(2462MHZ) Data :#18 Date: 2009/12/15 Time: 下午 12:29:38



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #4
Note: 2462MHz, AC Adapter: #2

Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2541.900	53.34	0.45	53.79	74.00	-20.21	peak			
2		2541.900	34.73	0.45	35.18	54.00	-18.82	AVG			
3		2577.600	55.07	0.60	55.67	74.00	-18.33	peak			
4		2577.600	34.75	0.60	35.35	54.00	-18.65	AVG			
5		2618.400	54.91	0.75	55.66	74.00	-18.34	peak			
6		2618.400	34.56	0.75	35.31	54.00	-18.69	AVG			
7		2700.000	39.35	22.58	61.93	74.00	-12.07	peak			
8		2700.000	19.24	22.58	41.82	54.00	-12.18	AVG			
9		4924.000	38.03	7.65	45.68	74.00	-28.32	peak			
10		9343.000	39.06	16.93	55.99	74.00	-18.01	peak			
11		9343.000	27.34	16.93	44.27	54.00	-9.73	AVG			
12		14100.000	37.89	18.90	56.79	74.00	-17.21	peak			
13	*	14100.000	26.91	18.90	45.81	54.00	-8.19	AVG			
14		17960.000	37.71	24.84	62.55	74.00	-11.45	peak			
15		17960.000	17.17	24.84	42.01	54.00	-11.99	AVG			
16		18595.000	39.59	23.07	62.66	74.00	-11.34	peak			
17		18595.000	19.95	23.07	43.02	54.00	-10.98	AVG			
18		21846.250	38.80	21.20	60.00	74.00	-14.00	peak			
19		21846.250	19.96	21.20	41.16	54.00	-12.84	AVG			
20		23631.250	39.30	20.42	59.72	74.00	-14.28	peak			
21		23631.250	20.32	20.42	40.74	54.00	-13.26	AVG			

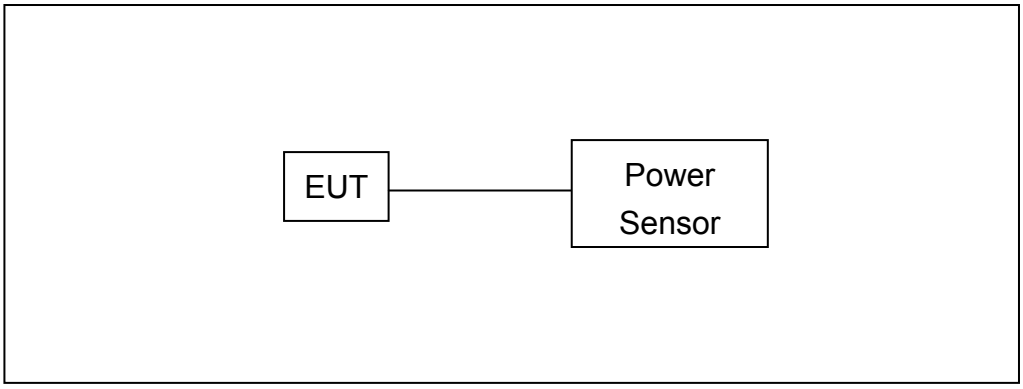
*:Maximum data x:Over limit !:over margin

6 Maximum Conducted Output Power Measurement

6.1. Limit

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm.

6.2. Test Setup



6.3. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date
Power Sensor	R&S	NRP-Z81	100017	05/17/2009
Test Site	ATL	TE06	TE06	N.C.R.

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

6.4. Test Procedure

The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor. The maximum peak output power shall not exceed 1 watt.

Use a direct connection between the antenna port of transmitter and the power sensor, for prevent the power sensor input attenuation 40-50 dB. Set the RBW Bandwidth of the emission or use a channel power meter mode.

For antennas with gains of 6 dBi or less, maximum allowed transmitter output is 1 watt (+30 dBm). For antennas with gains greater than 6 dBi, transmitter output level must be decreased by an amount equal to (GAIN - 6)/3 dBm.

The antenna port of the EUT was connected to the input of a power sensor. Power was read directly and cable loss correction was added to the reading to obtain power at the EUT antenna terminals.

6.5. Test Result

Product	Smartphone			
Test Item	Maximum Conducted Output Power			
Test Mode	Mode 3: IEEE 802.11b Link Mode			
Date of Test	12/02/2009		Test Site	TE06
Frequency (MHz)	Data Rate	Measurement		Limit (dBm)
		(dBm)	(W)	
2412	1	17.85	0.061	< 30
2437	1	18.08	0.064	< 30
2462	1	18.38	0.069	< 30

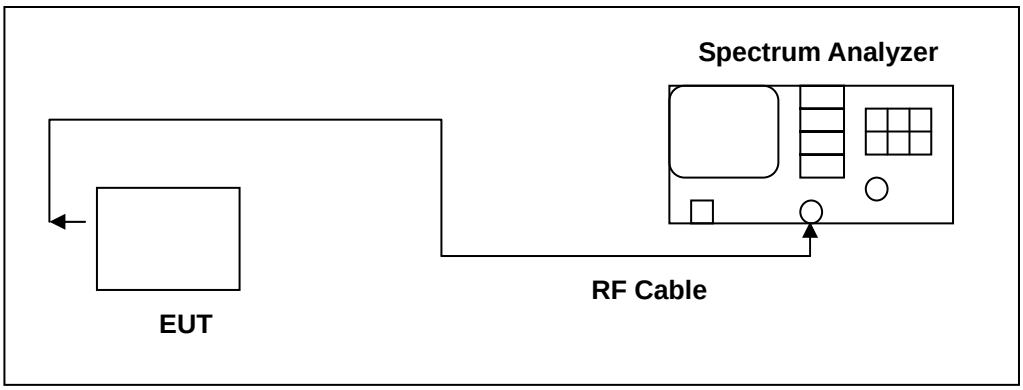
Product	Smartphone			
Test Item	Maximum Conducted Output Power			
Test Mode	Mode 4: IEEE 802.11g Link Mode			
Date of Test	12/02/2009		Test Site	TE06
Frequency (MHz)	Data Rate	Measurement		Limit (dBm)
		(dBm)	(W)	
2412	6	21.31	0.135	< 30
2437	6	21.94	0.156	< 30
2462	6	22.72	0.187	< 30

7 6dB RF Bandwidth Measurement

7.1. Limit

Systems using digital modulation techniques may operate in the 2400–2483.5 MHz bands. The minimum 6 dB band-width shall be at least 500 kHz.

7.2. Test Setup



7.3. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2009
Test Site	ATL	TE06	TE06	N.C.R.

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

7.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A peak output reading was taken, a DISPLAY line was drawn 6 dB lower than peak level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

The test was performed at 3 channels (Channel 1, 6, 11)

7.5. Test Result

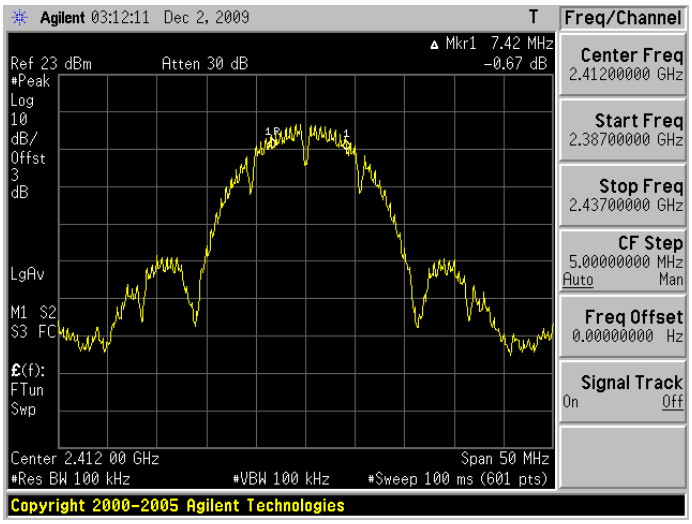
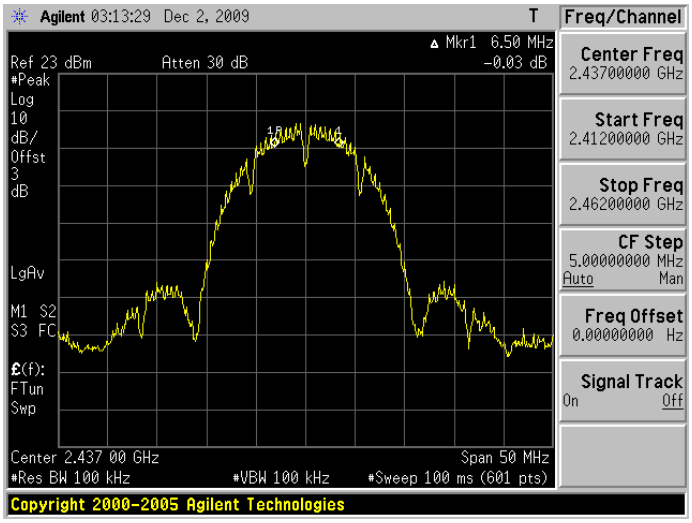
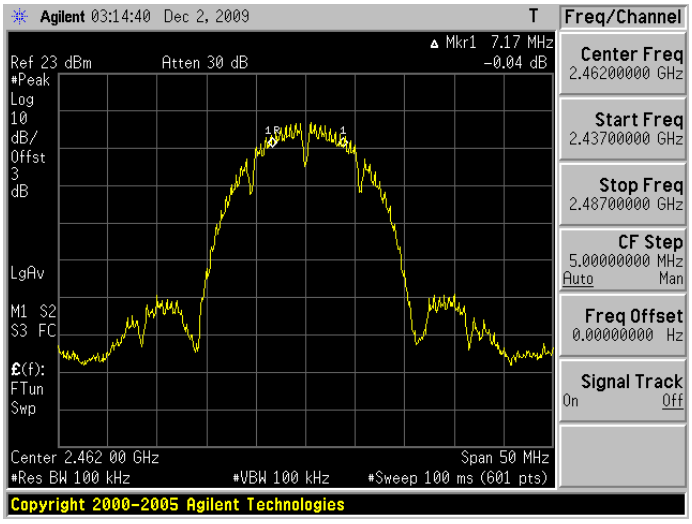
Product	Smartphone		
Test Item	6dB RF Bandwidth		
Test Mode	Mode 3: IEEE 802.11b Link Mode		
Date of Test	12/02/2009	Test Site	TE06

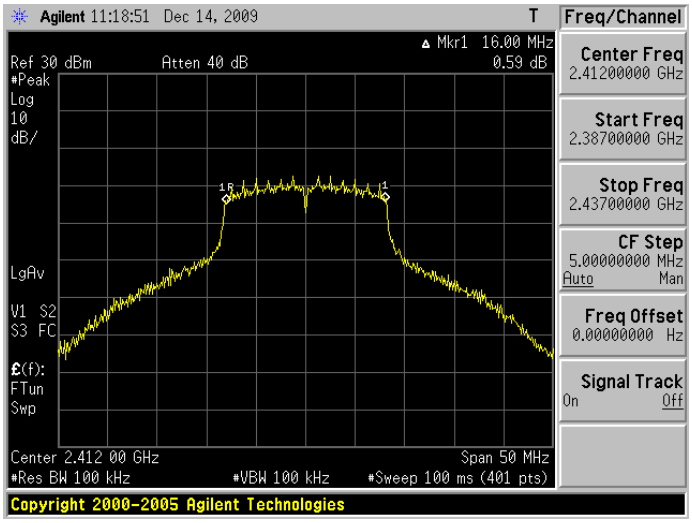
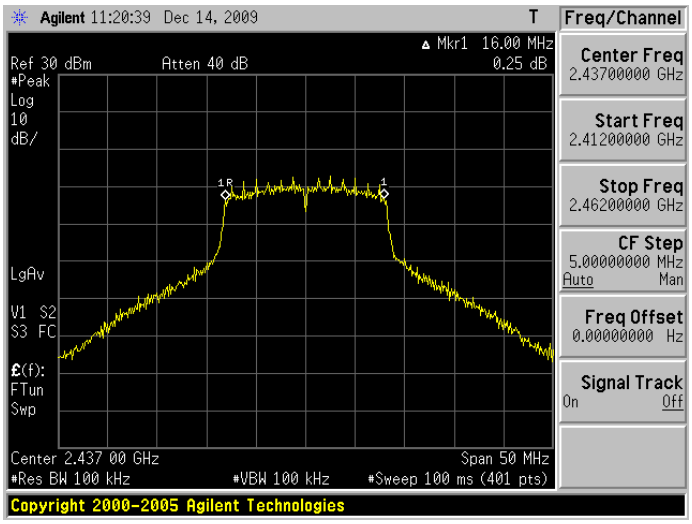
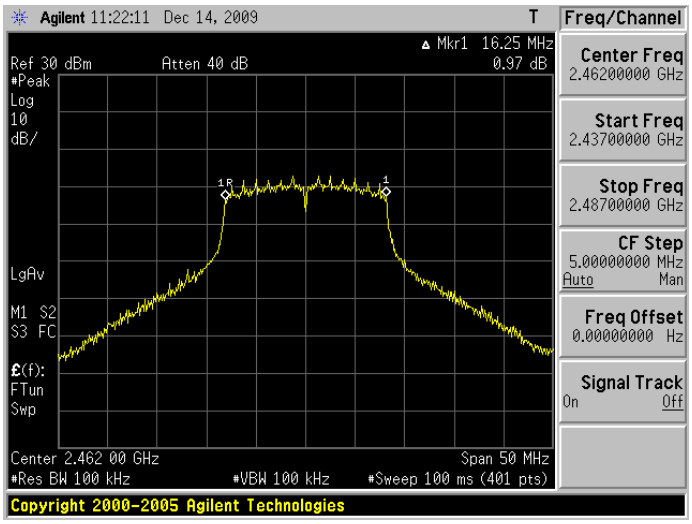
Frequency (MHz)	Measurement (kHz)	Limit (kHz)
2412	7420	> 500
2437	6500	> 500
2462	7170	> 500

Product	Smartphone		
Test Item	6dB RF Bandwidth		
Test Mode	Mode 4: IEEE 802.11g Link Mode		
Date of Test	12/14/2009	Test Site	TE06

Frequency (MHz)	Measurement (kHz)	Limit (kHz)
2412	16000	> 500
2437	16000	> 500
2462	16250	> 500

7.6. Test Graphs

Mode 3: IEEE 802.11b Link Mode	
2412	
2437	
2462	

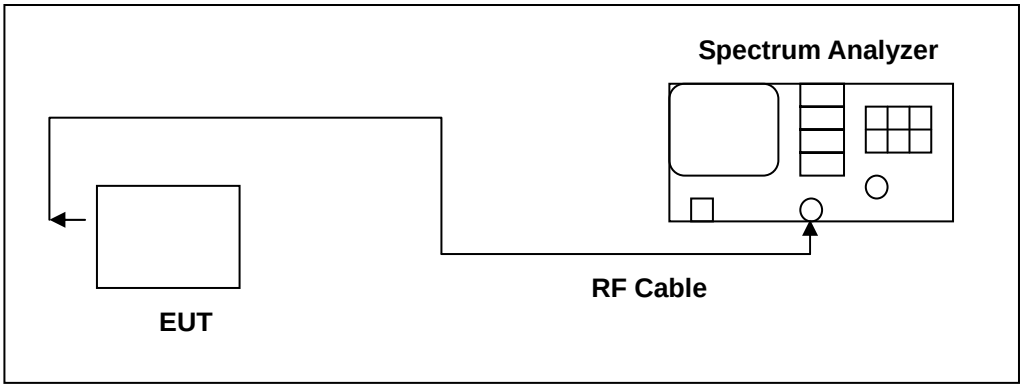
Mode 4: IEEE 802.11g Link Mode	
2412	
2437	
2462	

8 Maximum Power Density Measurement

8.1. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.2. Test Setup



8.3. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2009
Test Site	ATL	TE06	TE06	N.C.R.

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

8.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The spectrum analyzer RES BW was set to 3 kHz. The START and STOP frequencies were set to the band edges of the maximum output pass band. If there is no clear maximum amplitude in any given portion of the band, it may be necessary to make measurements at a number of bands defined by several START and STOP frequency pairs. The specification calls for a 1 second interval at each 3 kHz bandwidth; total SWEEP TIME is calculated as follows:

SWEEP TIME (SEC) = (Fstop, kHz - Fstart, kHz)/3 kHz

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

8.5. Test Result

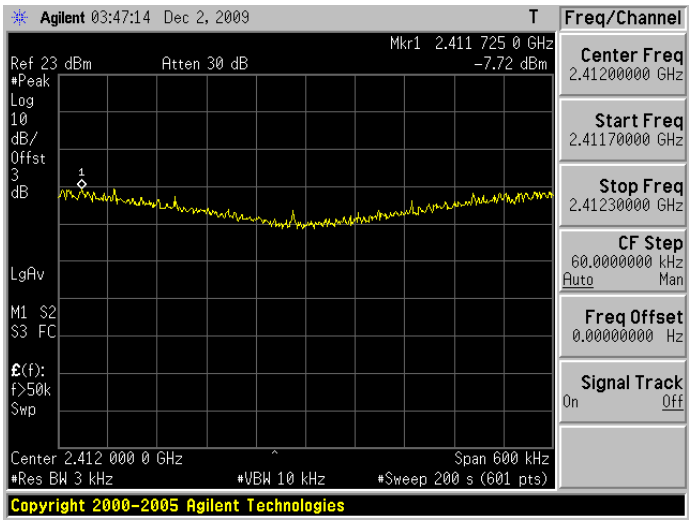
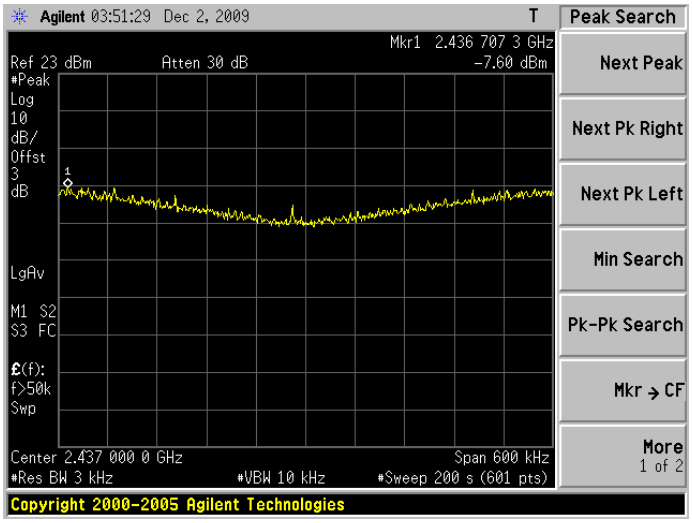
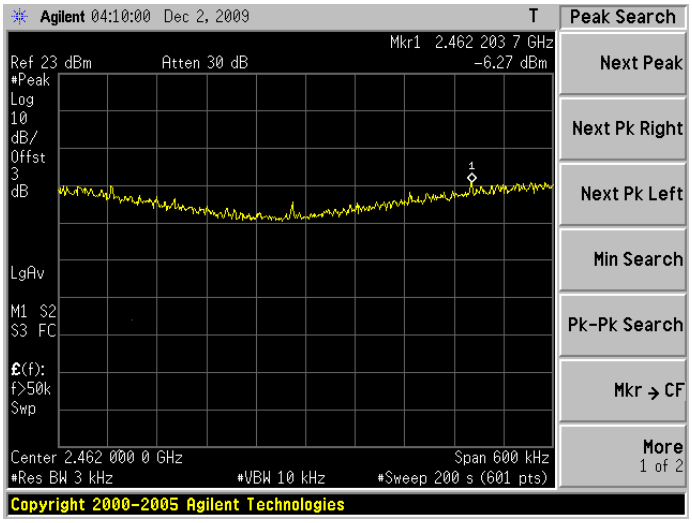
Product	Smartphone		
Test Item	Maximum Power Density		
Test Mode	Mode 3: IEEE 802.11b Link Mode		
Date of Test	12/02/2009	Test Site	TE06

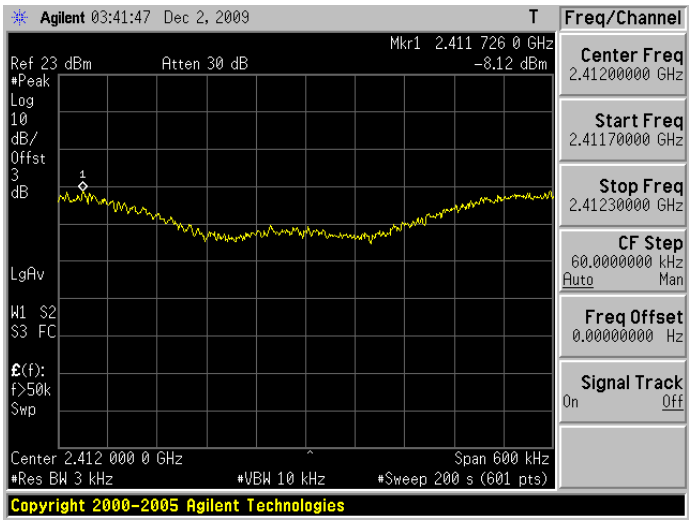
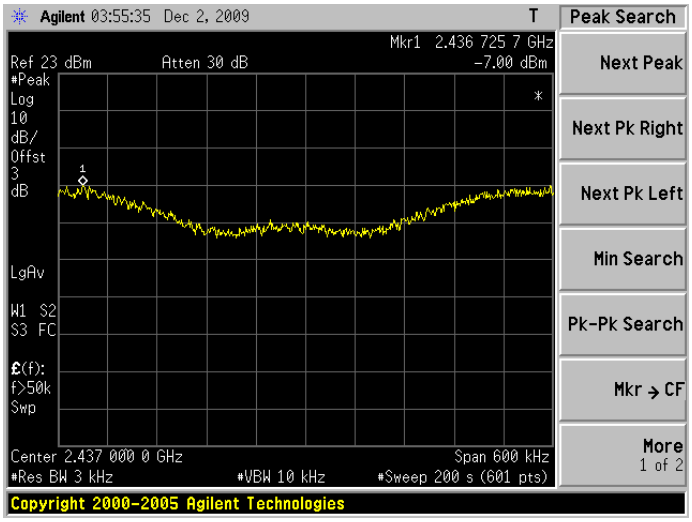
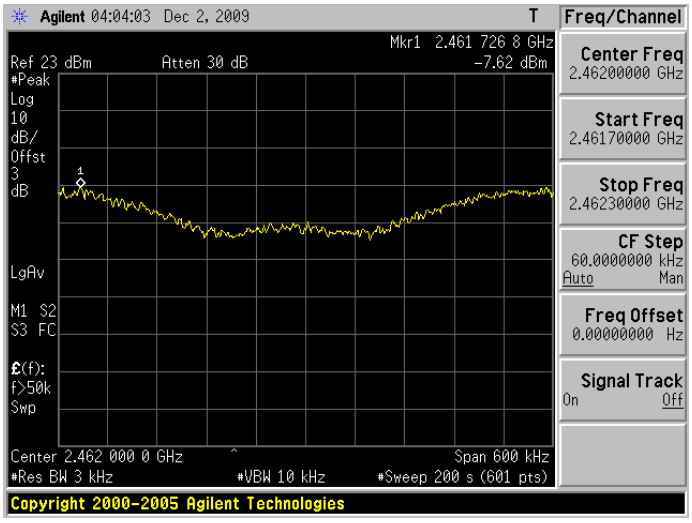
Frequency (MHz)	Measurement (dBm)	Limit (dBm)
2412	-7.72	< 8
2437	-7.60	< 8
2462	-6.27	< 8

Product	Smartphone		
Test Item	Maximum Power Density		
Test Mode	Mode 4: IEEE 802.11g Link Mode		
Date of Test	12/02/2009	Test Site	TE06

Frequency (MHz)	Measurement (dBm)	Limit (dBm)
2412	-8.12	1
2437	-7.00	1
2462	-7.62	1

8.6. Test Graphs

Mode 3: IEEE 802.11b Link Mode	
2412	
2437	
2462	

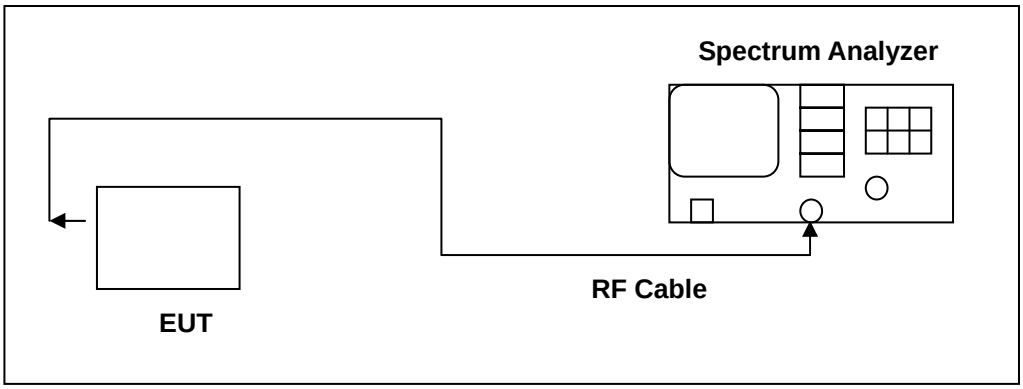
Mode 4: IEEE 802.11g Link Mode	
2412	
2437	
2462	

9 Out of Band Conducted Emissions Measurement

9.1. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

9.2. Test Setup



9.3. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2009
Test Site	ATL	TE06	TE06	N.C.R.

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

9.4. Test Procedure

In any 100 kHz bandwidth outside the EUT pass band, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission, antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the pass band. The test was performed at 3 channels (Channel 1, 6, 11)

9.5. Test Result

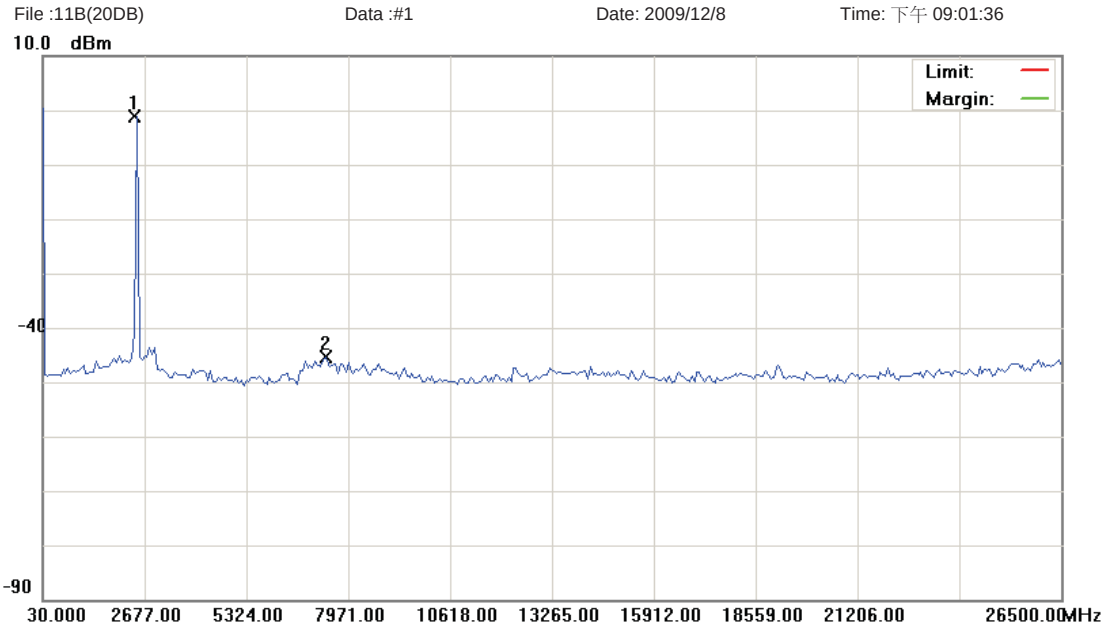
Product	Smartphone		
Test Item	Out of Band Conducted Emissions		
Test Mode	Mode 3: IEEE 802.11b Link Mode		
Date of Test	12/08/2009	Test Site	TE06

Frequency (MHz)	Fundamental (dBμV)	Limit (dBμV)	Measurement (dBμV)
2412	-1.14	-21.14	-45.33
2437	-1.63	-21.63	-45.33
2462	-1.85	-21.85	-45.51

Product	Smartphone		
Test Item	Out of Band Conducted Emissions		
Test Mode	Mode 4: IEEE 802.11g Link Mode		
Date of Test	12/08/2009	Test Site	TE06

Frequency (MHz)	Fundamental (dBμV)	Limit (dBμV)	Measurement (dBμV)
2412	-2.64	-22.64	-44.83
2437	-2.88	-22.88	-44.33
2462	-2.79	-22.79	-43.83

9.6. Test Graphs



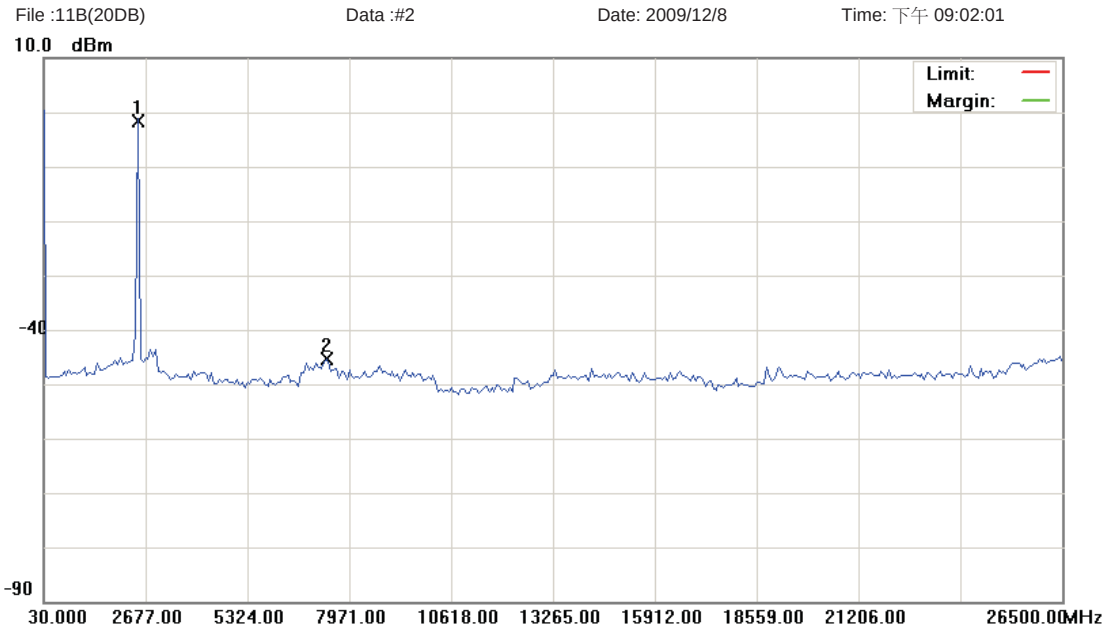
Site : RF Conducted
Limit:
EUT: Smartphone
M/N: PB76100
Mode: #3
Note: CH01(2412MHZ)

Phase:
Power:

Temperature: ℃
Humidity: %
RBW: 100 KHz VBW: 100 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2412.000	-1.14	0.00	-1.14			peak	TX
2		7375.425	-45.33	0.00	-45.33			peak	

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



Site : RF Conducted
Limit:
EUT: Smartphone
M/N: PB76100
Mode: #3
Note: CH06(2437MHZ)

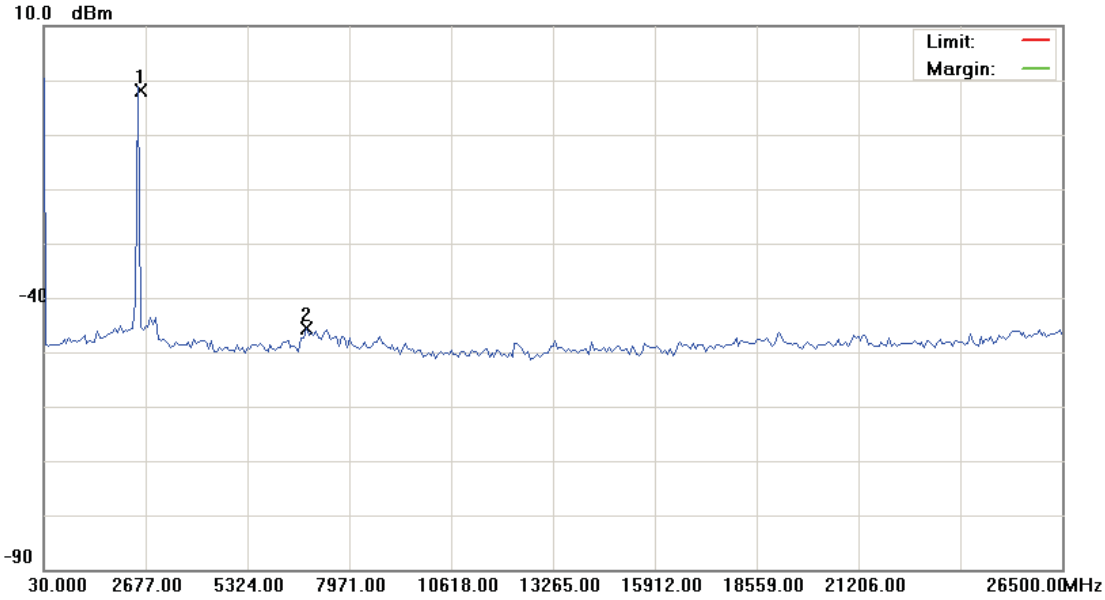
Phase:
Power:

Temperature: ℃
Humidity: %
RBW: 100 KHz VBW: 100 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2437.000	-1.63	0.00	-1.63			peak	TX
2		7375.425	-45.33	0.00	-45.33			peak	

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

File :11B(20DB) Data :#3 Date: 2009/12/8 Time: 下午 09:02:01



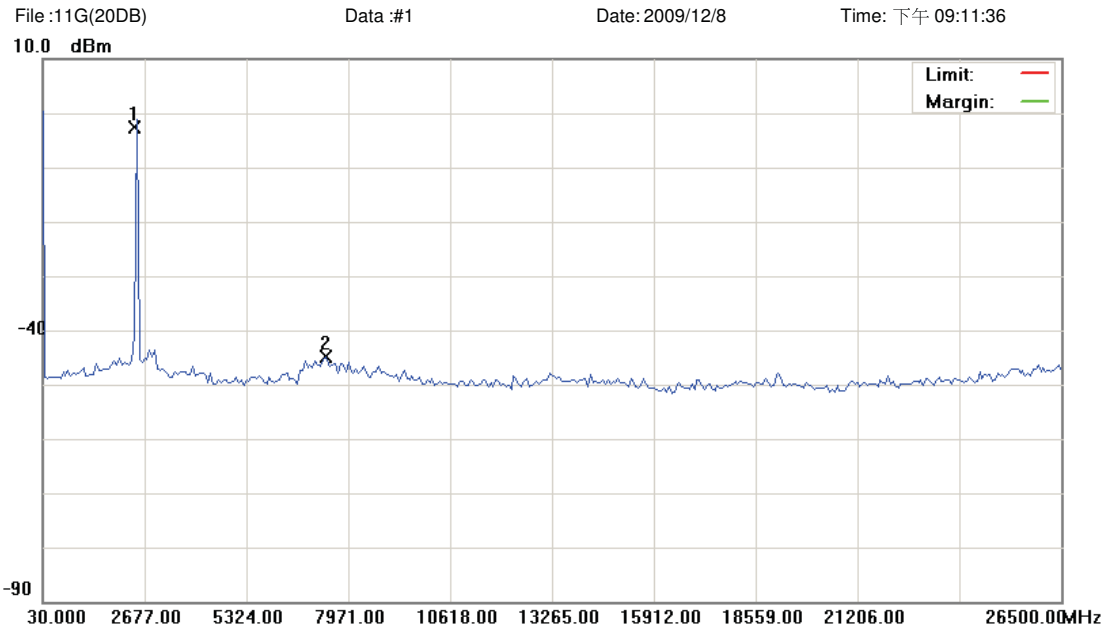
Site : RF Conducted
Limit:
EUT: Smartphone
M/N: PB76100
Mode: #3
Note: CH11(2462MHZ)

Phase:
Power:

Temperature: ℃
Humidity: %
RBW: 100 KHz VBW: 100 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2462.000	-1.85	0.00	-1.85			peak	TX
2		6846.025	-45.51	0.00	-45.51			peak	

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



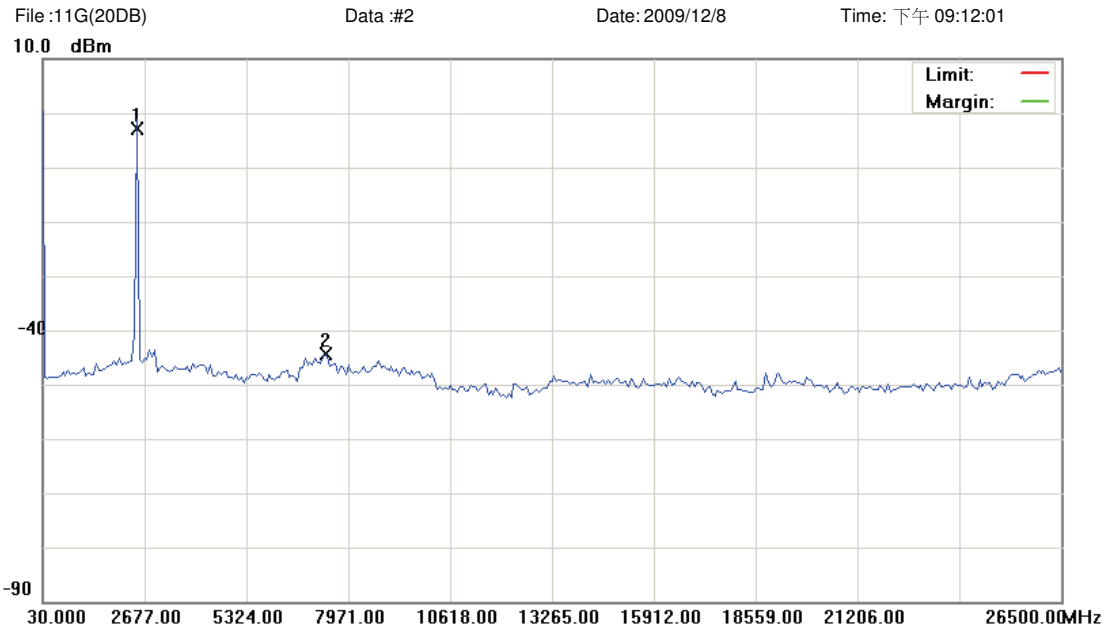
Site : RF Conducted
Limit:
EUT: Smartphone
M/N: PB76100
Mode: #4
Note: CH01(2412MHZ)

Phase:
Power:

Temperature: ℃
Humidity: %
RBW: 100 KHz VBW: 100 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2402.000	-2.64	0.00	-2.64			peak	TX
2		7375.425	-44.83	0.00	-44.83			peak	

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



Site : RF Conducted
Limit:
EUT: Smartphone
M/N: PB76100
Mode: #4
Note: CH06(2437MHZ)

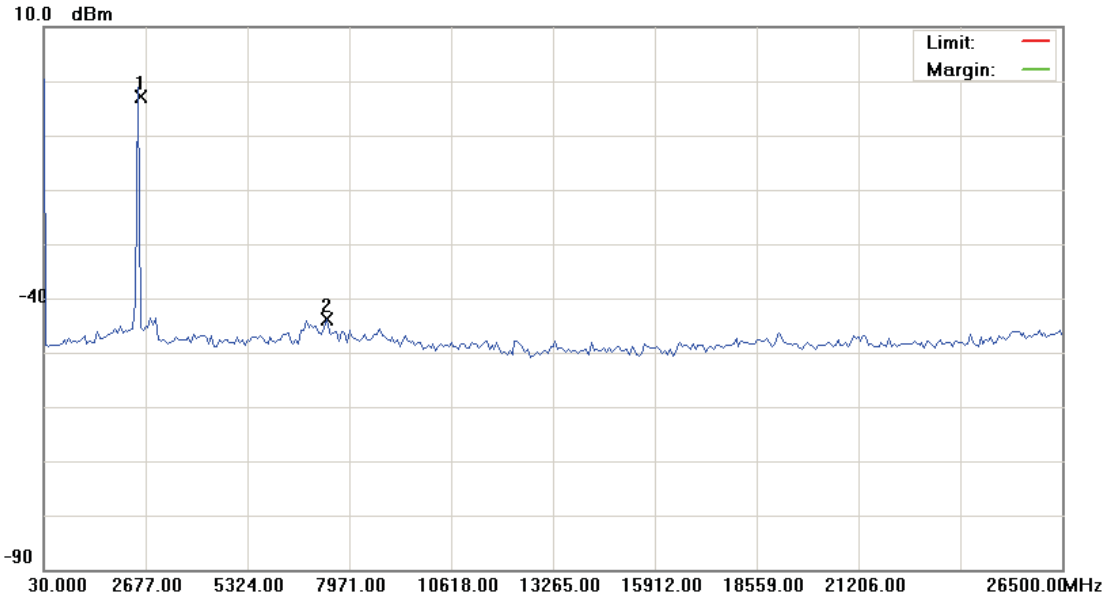
Phase:
Power:

Temperature: ℃
Humidity: %
RBW: 100 KHz VBW: 100 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2441.000	-2.88	0.00	-2.88			peak	TX
2		7375.425	-44.33	0.00	-44.33			peak	

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

File :11G(20DB) Data :#3 Date: 2009/12/8 Time: 下午 09:13:01



Site : RF Conducted
Limit:
EUT: Smartphone
M/N: PB76100
Mode: #4
Note: CH11(2462MHZ)

Phase:
Power:

Temperature: ℃
Humidity: %
RBW: 100 KHz VBW: 100 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2480.000	-2.79	0.00	-2.79			peak	TX
2		7375.425	-43.83	0.00	-43.83			peak	

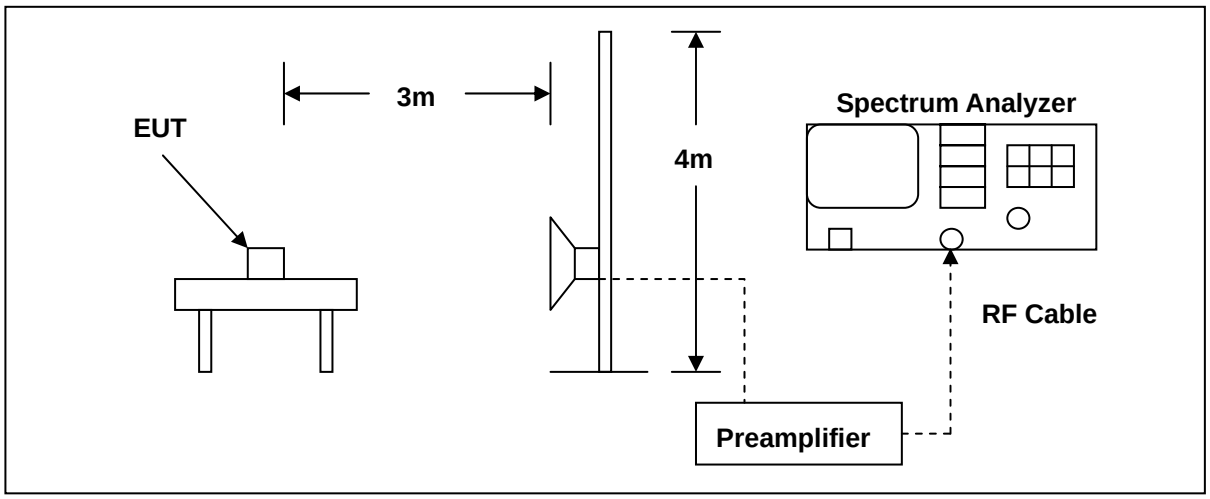
*:Maximum data x:Over limit !:over margin

10 Band Edges Measurement

10.1. Limit

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

10.2. Test Setup



10.3. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45107753	06/23/2009
Pre Amplifier	Agilent	8449B	3008A02237	07/01/2009
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	9120D	9120D-550	07/01/2009
Test Site	ATL	TE06	TE06	N.C.R.

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

10.4. Test Procedure

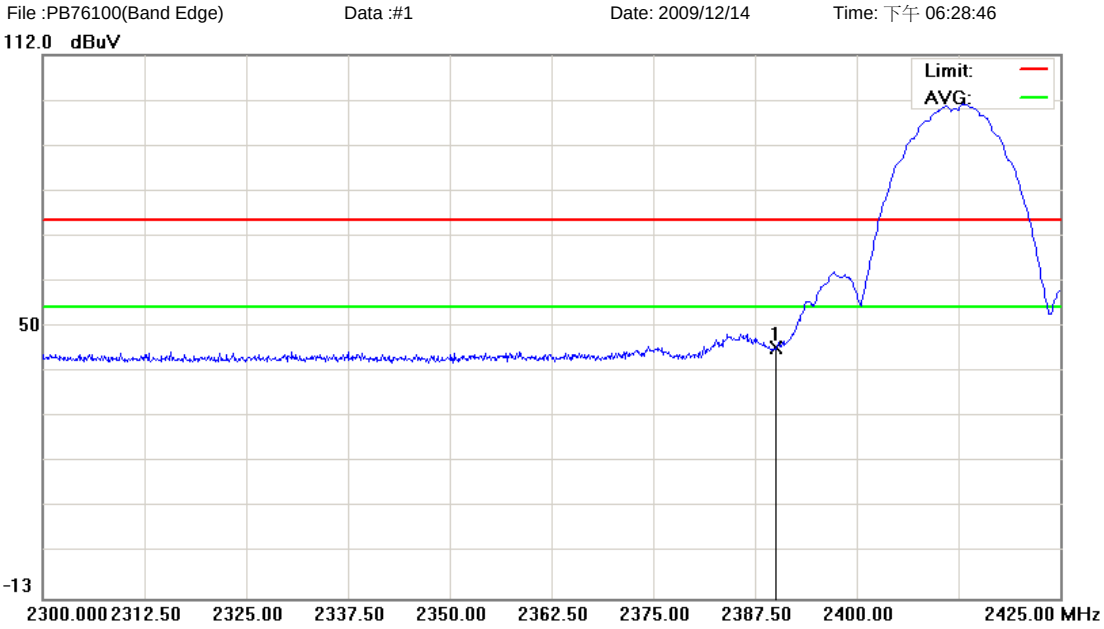
The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The emissions on the harmonics frequencies, the limits, and the margin of compliance are presented. These tests were made when the transmitter was in full radiated power. The additional test was performed to show compliance with the requirement at the band-edge frequency 2483.5 MHz and up to 2500 MHz and at 2390.0 MHz.

The transmitter was configured with the worst case antenna and setup to transmit at the highest channel. Then the field strength was measured at 2483.5 MHz.

The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel. Then the field strength was measured at 2390.0 MHz. These tests were performed at 4 different bit rates.

10.5. Test Graphs



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #3
Note: 2412MHz

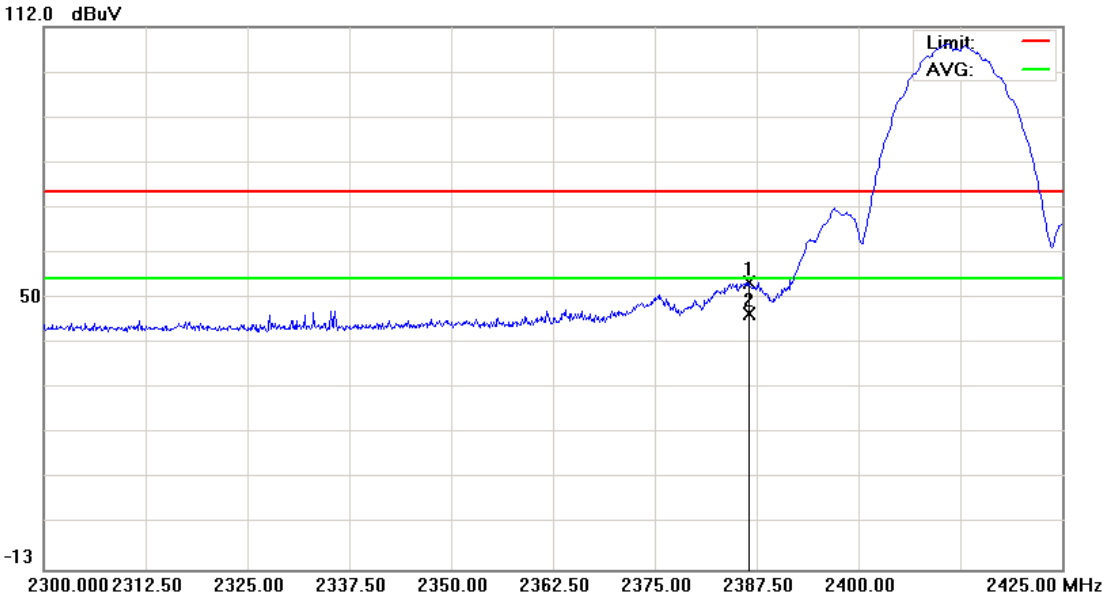
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 KHz VBW: 1000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	44.54	0.19	44.73	74.00	-29.27	peak			

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

File :PB76100(Band Edge) Data :#3 Date: 2009/12/14 Time: 下午 06:48:02



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #3
Note: 2412MHz

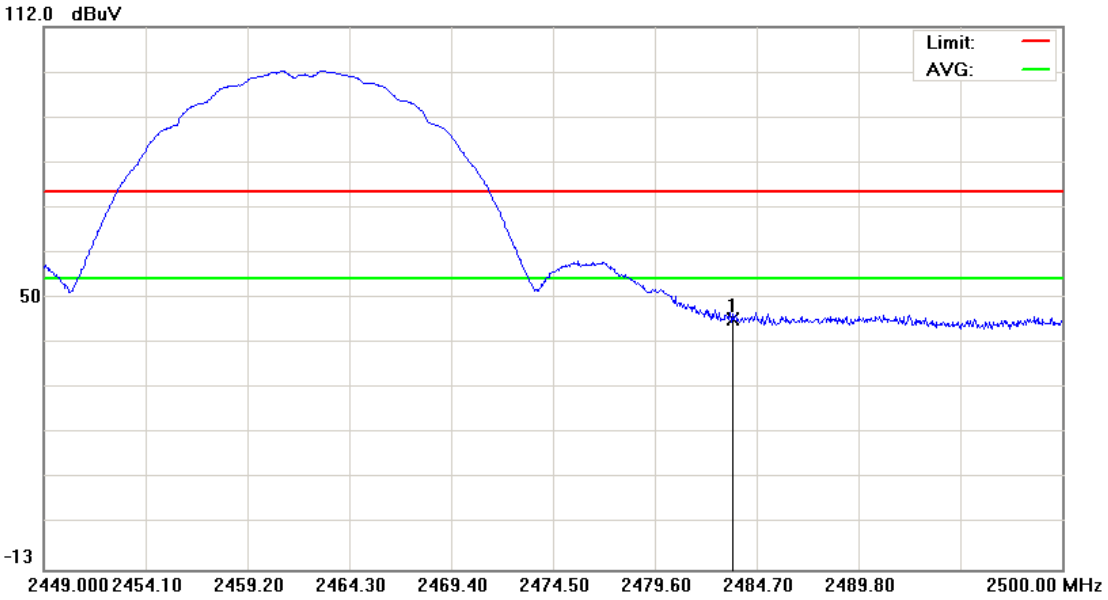
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 KHz VBW: 1000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2386.500	52.87	0.18	53.05	74.00	-20.95	peak			
2	*	2386.500	45.71	0.18	45.89	54.00	-8.11	AVG			

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

File :PB76100(Band Edge) Data :#5 Date: 2009/12/14 Time: 下午 07:13:57



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #3
Note: 2462MHz

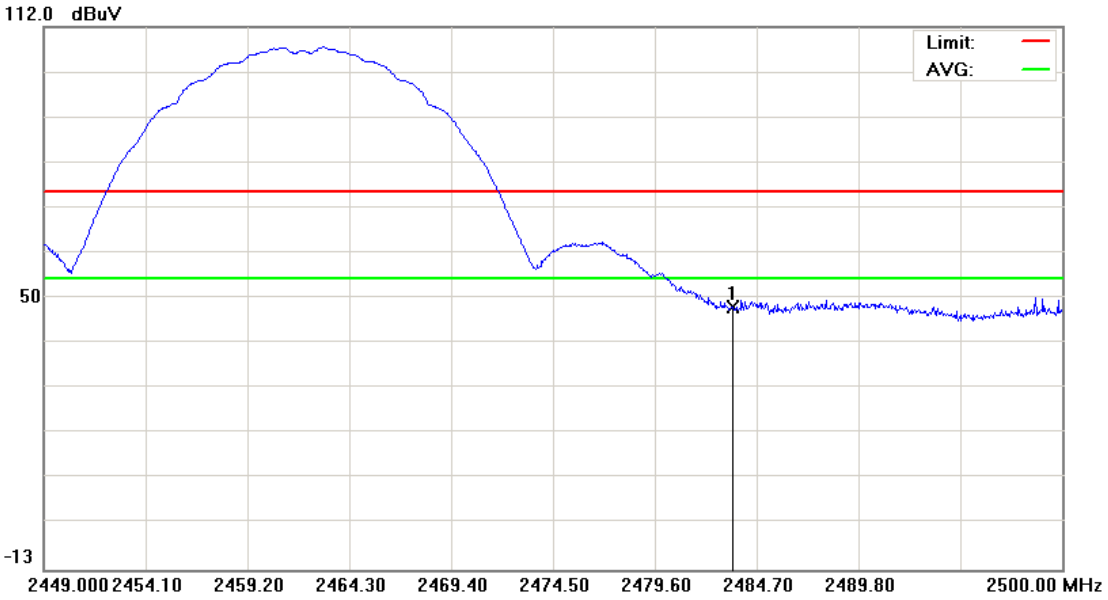
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 KHz VBW: 1000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	44.46	0.25	44.71	74.00	-29.29	peak			

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

File :PB76100(Band Edge) Data :#7 Date: 2009/12/14 Time: 下午 07:28:18



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #3
Note: 2462MHz

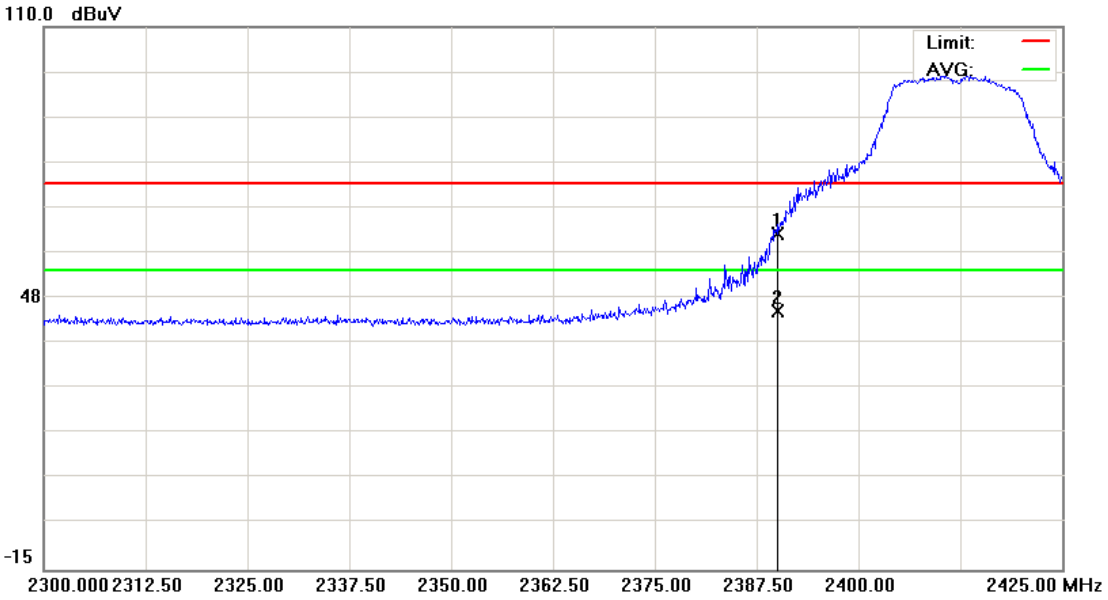
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 KHz VBW: 1000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	47.21	0.25	47.46	74.00	-26.54	peak			

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

File :PB76100(Band Edge) Data :#1 Date: 2009/12/14 Time: 下午 12:34:54



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #4
Note: 2412MHz

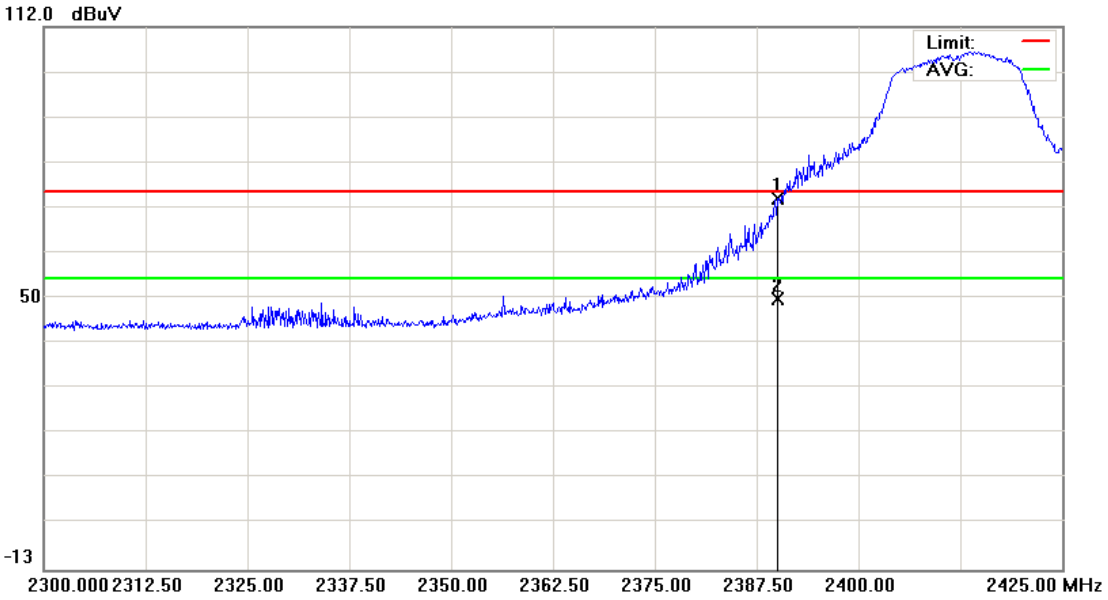
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 KHz VBW: 1000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	62.19	0.19	62.38	74.00	-11.62	peak			
2	*	2390.000	44.47	0.19	44.66	54.00	-9.34	AVG			

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

File :PB76100(Band Edge) Data :#3 Date: 2009/12/14 Time: 下午 01:40:47



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #4
Note: 2412MHz

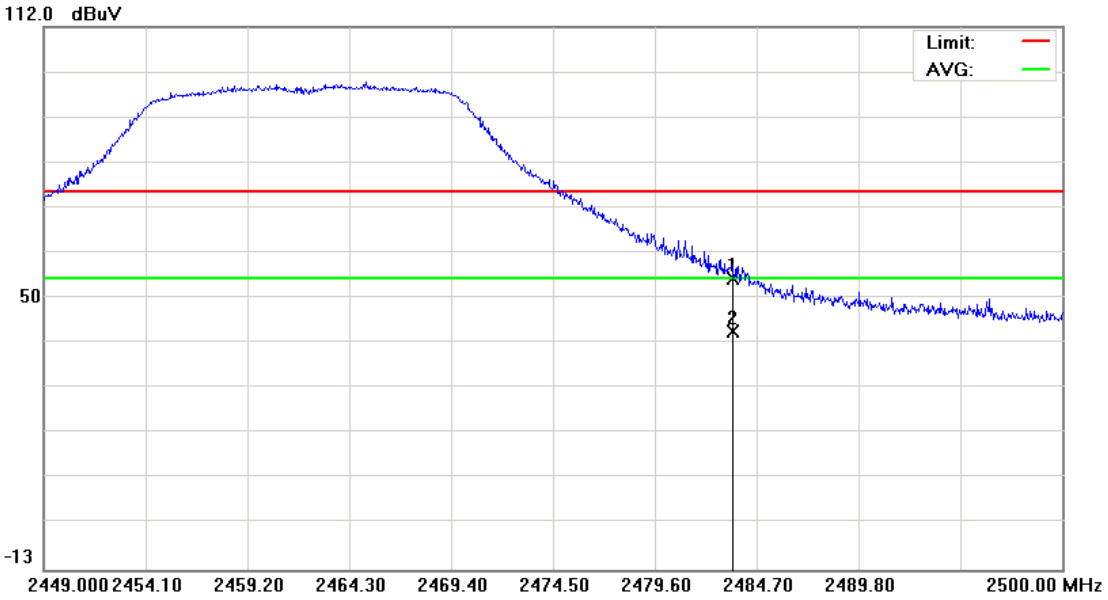
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 KHz VBW: 1000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	72.19	0.19	72.38	74.00	-1.62	peak			
2		2390.000	49.27	0.19	49.46	54.00	-4.54	AVG			

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

File :PB76100(Band Edge) Data :#5 Date: 2009/12/14 Time: 下午 02:26:49



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #4
Note: 2462MHz

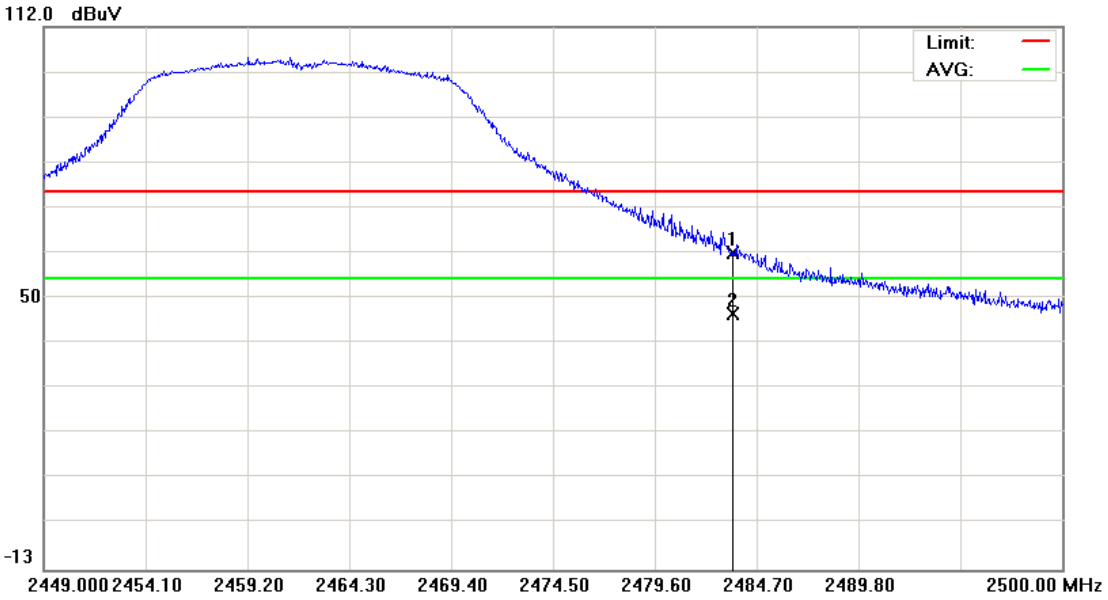
Polarization: *Vertical*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 KHz VBW: 1000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	53.90	0.25	54.15	74.00	-19.85	peak			
2	*	2483.500	41.72	0.25	41.97	54.00	-12.03	AVG			

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

File :PB76100(Band Edge) Data :#7 Date: 2009/12/14 Time: 下午 02:42:51



Site: : 966 Chamber
Limit: FCC part 15 (PK)
EUT: Smartphone
M/N: PB76100
Mode: #4
Note: 2462MHz

Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 22 ℃
Humidity: 60 %
RBW: 1000 KHz VBW: 1000 KHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	59.65	0.25	59.90	74.00	-14.10	peak			
2	*	2483.500	45.61	0.25	45.86	54.00	-8.14	AVG			

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

11 Antenna Measurement

11.1. Limit

For intentional device, according to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Antenna Connector Construction

The antenna used in this product is **PIFA antenna**. And the maximum Gain of this antenna is only **0.8 dBi**.