

FCC 47 CFR PART 15 SUBPART C TEST REPORT

For

Applicant: CLC Hong Kong Limited

Address: 2209, Concordia Plaza, North Tower, No.1 Science Museum

Road, Tsim Sha Tsui East, Kowloon, Hong Kong

Product Name: Mobile Phone

Model Name: Wicked, Z100, Z101

Brand Name: plum

FCC ID: Y7WPLUMWICKED

Report No.: DPH120705F05

Date of Issue: July. 24, 2012

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

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Revision History				
Issue	Reason for Revision			
1.0	July 24, 2012	First edition		

1. VERIFICATION OF CONFORMITY

Mobile Phone
plum
Wicked
Z100, Z101
The main board is the same, but the series models Z101 only support one SIM card.
Y7WPLUMWICKED
CLC Hong Kong Limited
2209, Concordia Plaza, North Tower, No.1 Science Museum Road, Tsim Sha Tsui East, Kowloon, Hong Kong
CLC Technology Co. Ltd
Room 303, Block 31, Longtang Industrial Zone, Longtang Community Minzhi Street, Bao'an District , Shenzhen, China
47 CFR Part 15 Subpart C
DPH120705F05
July 07~ July 23, 2012
None
Normal
PASS

The above equipment was tested by STS. For compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

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

The test results of this report relate only to the tested sumple lac	
Tested by (+ signature):	Approved by (+ signature):
Rex Luo	Joe Jia
Rex Luo	Joe Jia
Test Engineer	Manager

2. GENERAL INFORMATION

2.1 Product Information

Description:	Mobile Phone	
Brand Name:	plum	
Model Name:	Wicked	
F	IEEE 802.11b/g/n-20MHz mode: 2412MHz- 2462MHz	
Frequency Range:	IEEE 802.11n Standard-40 MHz Channel mode: 2422MHz- 2452MHz	
	IEEE 802.11b/g/n-20MHz mode: 2412MHz, 2437MHz, 2462MHz	
Test Frequency:	IEEE 802.11n Standard-40 MHz Channel mode: 2422MHz, 2437MHz,	
	2452MHz	
Number of Champala	IEEE 802.11b/g/n-20MHz mode: 11 Channels	
Number of Channels:	IEEE 802.11n Standard-40 MHz Channel mode: 7 Channels	
	IEEE 802.11b mode: DSSS (1, 2, 5.5 and 11 Mpbs)	
	IEEE 802.11g mode: OFDM (6, 9, 12, 18, 24, 36, 48 and 54 Mpbs)	
Madulation Tachnique	IEEE 802.11n Standard-20 MHz Channel mode: OFDM(6.5, 13, 19.5,	
Modulation Technique:	26, 39, 52, 58.5, 65.0Mbps)	
	IEEE 802.11n Standard-40 MHz Channel mode: OFDM (13.5, 27, 40.5,	
	54, 81, 108, 121.5, 135Mbps)	
Dower Cumply:	DC 5V by AC/DC adapter 100~240V 50/60Hz	
Power Supply:	DC 3.7V by Lithium-ion Battery	
Temperature Range:	-20°C ~ +50°C	

NOTE:

1. For more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

The objective of the report is to perform tests according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title	
1	47 CFR Part 15(10-1-09 Edition)	Radio Frequency Devices	

2.3 Test Standards and Results

Test items and the results are as bellow:

No.	Section	Description	Result	Date of Test
1	15.247(a)(2)	6dB Bandwidth	PASS	2012-07-21
2	15.247(b)(3)	Peak Output Power	PASS	2012-07-21
3	15.247(d)	conducted spurious emission	PASS	2012-07-21
4	15.247(d)	Band Edge	PASS	2012-07-21
5	15.247(e)	Power Spectral Density	PASS	2012-07-21
6	15.207	Conducted Emission	PASS	2012-07-13
7	15.247(d) 15.205 15.209	Radiated Emission	PASS	2012-07-13

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

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

2.4 Environmental Conditions

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

- Temperature: 15-35°C - Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

3. TEST FACILITY

3. 1 Test Facility

Most Technology Service Co., Ltd.			
No.5, Nangshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China			
There is one 3m semi-anechoic an area test sites and two line conducted labs for			
final test. The Open Area Test Sites and the Line Conducted labs are constructed			
and calibrated to meet the FCC requirements in documents ANSI C63.4 and			
CISPR 16 requirements.			
The FCC Registration Number is 490827.			
The site description is on file with the Federal Communications			
Commission, 7435 Oakland Mills Road, Columbia, MD 21046.			
All measuring equipment is in accord with ANSI C63.4 and CISPR 16			
requirements that meet industry regulatory agency and accreditation agency			
requirement.			
Two conductive reference ground planes were used during the Line Conducted			
Emission, one in vertical and the other in horizontal. The dimensions of these			
ground planes are as below. The vertical ground plane was placed distancing			
40 cm to the rear of the wooden test table on where the EUT and the support			
equipment were placed during test. The horizontal ground plane projected 50 cm			
beyond the footprint of the EUT system and distanced 80 cm to the wooden test			
table. For Radiated Emission Test, one horizontal conductive ground plane			
extended at least 1m beyond the periphery of the EUT and the largest measuring			
antenna, and covered the entire area between the EUT and the antenna. It has			
no holes or gaps having longitudinal dimensions larger than one-tenth of a			
wavelength at the highest frequency of measurement up to 1GHz.			

3.2 General Test Procedures

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2009, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2009.

3.3 FCC Part 15.205 Restricted Bands of Operations

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz MHz		GHz
0.090 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasipeak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

² Above 38.6

FCC ID: Y7WPLUMWICKED Report No.: DPH120705F04

4. TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1/ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2013/4/21
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2013/4/21
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2013/3/14
4	Terminator	Hubersuhner	50Ω	No.1	2013/3/14
5	RF Cable	SchwarzBeck	N/A	No.1	N/A
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2013/4/21
7	Test Antenna – Horn	Schwarzbeck	BBHA 9120C		2013/3/14
8	Test Antenna – Bi-Log	Schwarzbeck	VULB 9163		2013/3/14
9	Power Splitter	Weinschel	1506A	NW521	N/A
10	Spectrum Analyzer	Agilent	4408B	MY41440460	2013/4/21
11	Cable	Resenberger	N/A	NO.1	N/A
12	Cable	SchwarzBeck	N/A	NO.2	N/A
13	Cable	SchwarzBeck	N/A	NO.3	N/A
14	Signal Generator	IFR	2032	203002/100	2013/5/21
15	EPM Series Power Meter	Agilent	E4418B	GB43318063	2013/5/21
16	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2013/4/21
17	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2012/03/14
18	DC Power Supply	Good Will	GPS-3030DD	EF920938	2013/4/21
19	Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2013/4/15

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

5. 47 CFR Part 15 C 15.247 Requirements

5.1 6dB Bandwidth

5.1.1 Definition

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.1.2 Test Description

The EUT is powered by the Battery, is coupled to the Spectrum Analyzer (SA) through the Attenuator/DC Block. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power. The RF load attached to the EUT antenna terminal is 500hm.

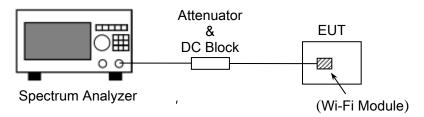


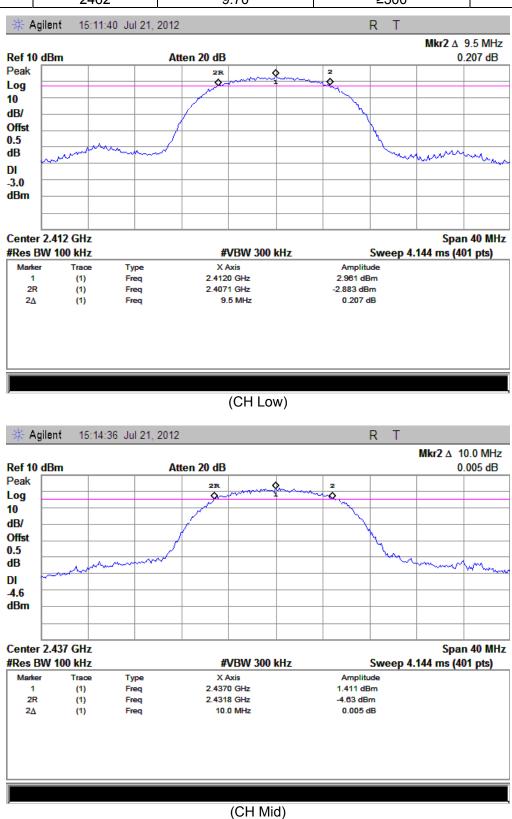
Figure 1: RF Test Setup

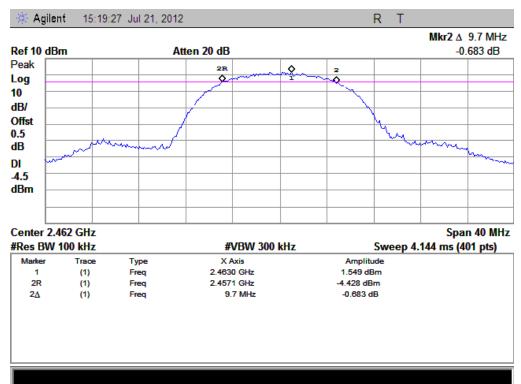
5.1.3 Test Result

The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the Module.

802.11b Test Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	9.50	≥500	PASS
6	2437	10.00	≥500	PASS
11	2462	9.70	≥500	PASS

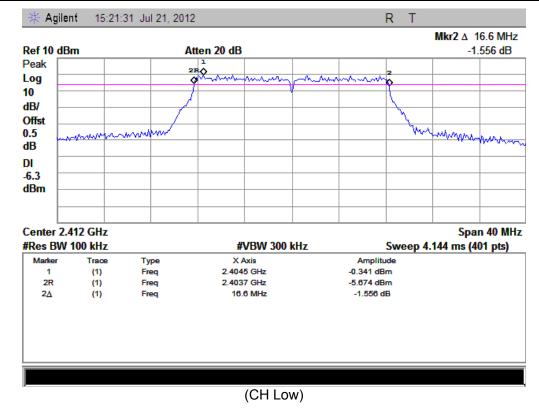


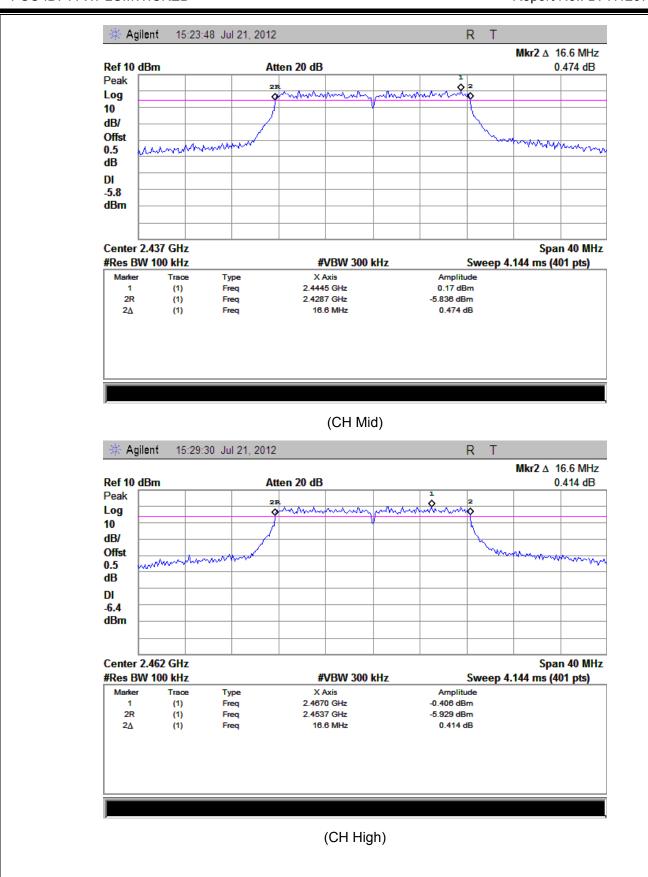


(CH High)

802.11g Test Mode

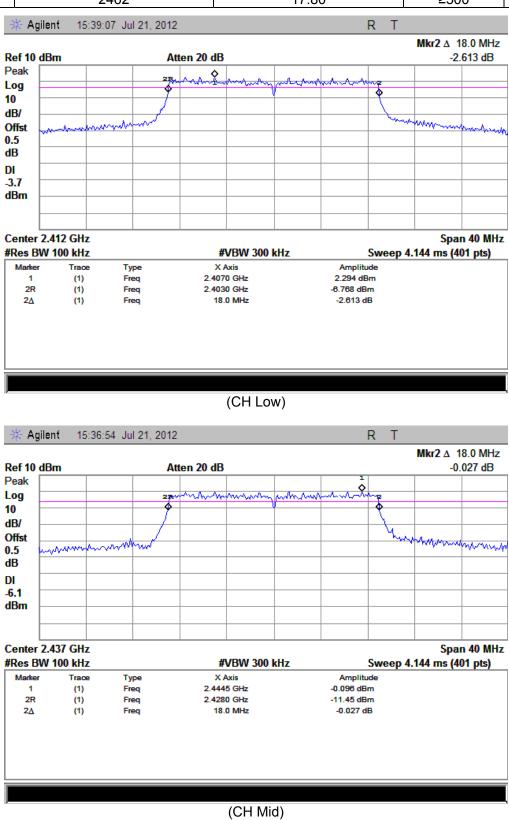
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	16.60	≥500	PASS
6	2437	16.60	≥500	PASS
11	2462	16.60	≥500	PASS

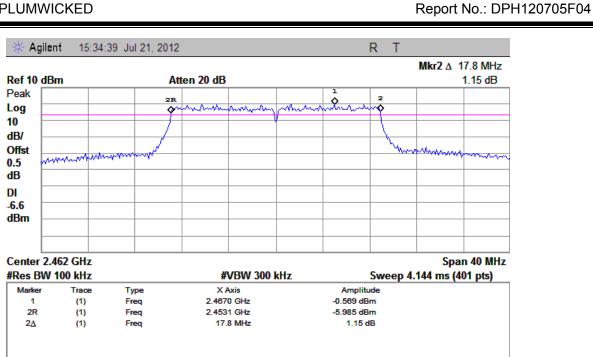




802.11n-20MHz Test Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	18.00	≥500	PASS
6	2437	18.00	≥500	PASS
11	2462	17.80	≥500	PASS

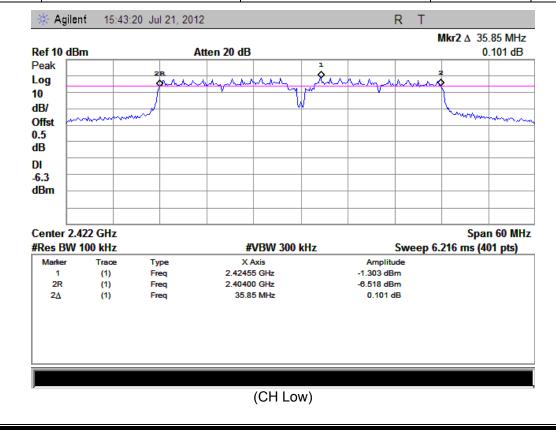


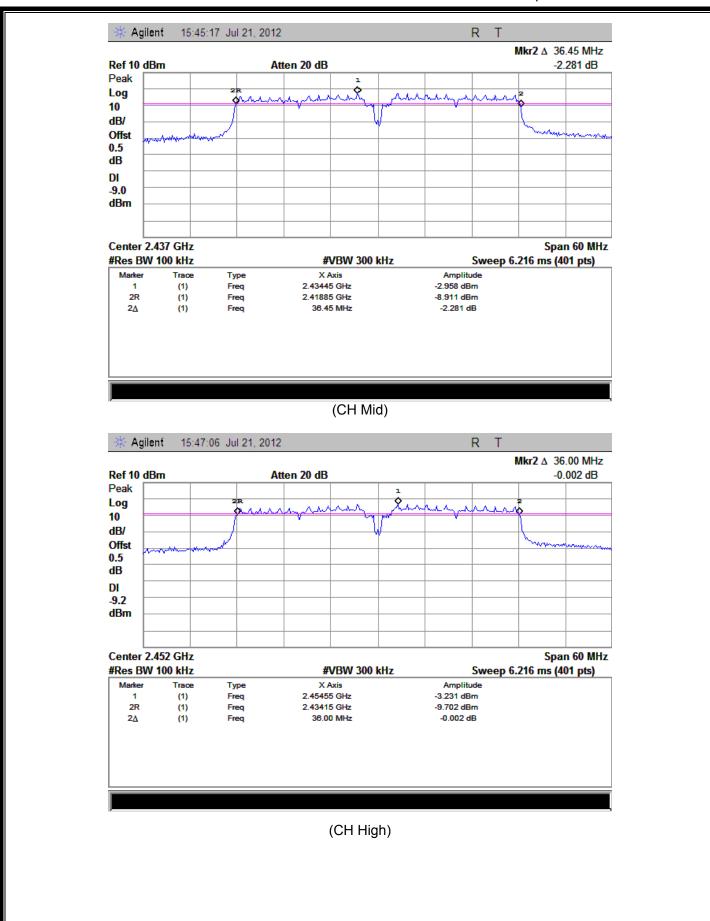


(CH High)

802.11n-40MHz Test Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
3	2422	35.85	≥500	PASS
6	2437	36.45	≥500	PASS
9	2452	36.00	≥500	PASS



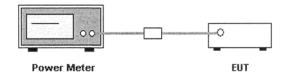


5.2 Peak Output Power

5.2.1 Definition

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power.

5.2.2 Test Description



The EUT which is powered by Battery, is coupled to the Power Meter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

5.2.3 Test Result

The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

802.11b Test Mode

Channel	Frequency (MHz)	Rate	Measured Output Peak Power		Limit		Verdict
		(Mbps)	dBm	W	dBm	W	
4	2412	1Mbps	16.31	0.043	30	1	PASS
1		11Mbps	14.37	0.027			PASS
6	2437	1Mbps	16.22	0.042			PASS
0		11Mbps	13.98	0.025			PASS
44	2462	1Mbps	16.49	0.045			PASS
11	2402	11Mbps	14.72	0.030			PASS

802.11g Test Mode

Channel Frequency (MHz)		Rate	Measured Output Peak Power		Limit		Verdict
		(Mbps)	dBm	W	dBm	W	
1	2412	6Mbps	14.11	0.026	30	1	PASS
'		54Mbps	13.46	0.022			PASS
6	2427	6Mbps	14.39	0.027			PASS
0	2437	54Mbps	pps 12.91 0.020	0.020			PASS
44	2462	6Mbps	14.55	0.029			PASS
11	2462	54Mbps	12.65	0.018			PASS

802.11n Test Mode (Standard-20 MHz Channel mode)

Channel	Frequency (MHz)	Rate	Measured Output Peak Power		Limit		Verdict
		(Mbps)	dBm	W	dBm	W	
1	2412	6.5Mbps	13.78	0.024	30	1	PASS
'		65Mbps	12.14	0.016			PASS
6	2437	6.5Mbps	14.03	0.025			PASS
0		65Mbps	12.57	0.018			PASS
11	2462	6.5Mbps	13.65	0.023			PASS
''	2402	65Mbps	11.99	0.016			PASS

802.11n Test Mode (Standard-40 MHz Channel mode)

Channel	Frequency (MHz)	Rate	Measured Output Peak Power		Limit		Verdict
		(Mbps)	dBm	W	dBm	W	
3	2422	13.5Mbps	13.15	0.021	20		PASS
3	2422	135Mbps	11.63	0.015		1	PASS
6	6 2437	13.5Mbps	12.88	0.019			PASS
0		135Mbps	11.85	0.015	30	ļ	PASS
9	2452	13.5Mbps	12.72	0.019			PASS
		135Mbps	11.57	0.014			PASS

5.3 Conducted Spurious Emission

5.3.1 Definition

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, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

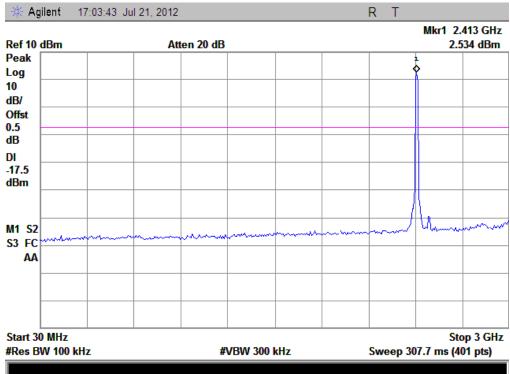
5.3.2 Test Description

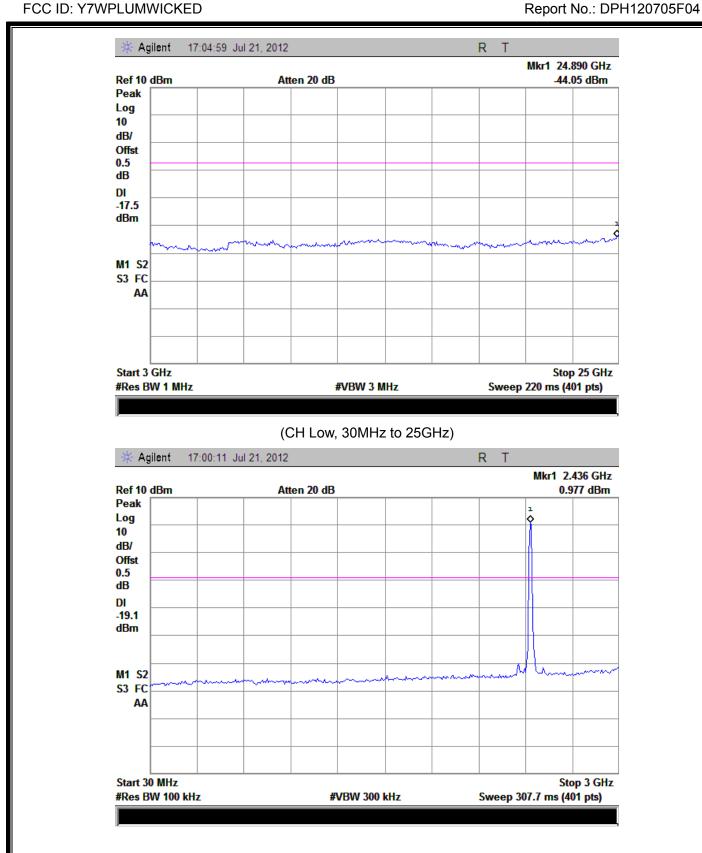
See section 5.1.2 of this report.

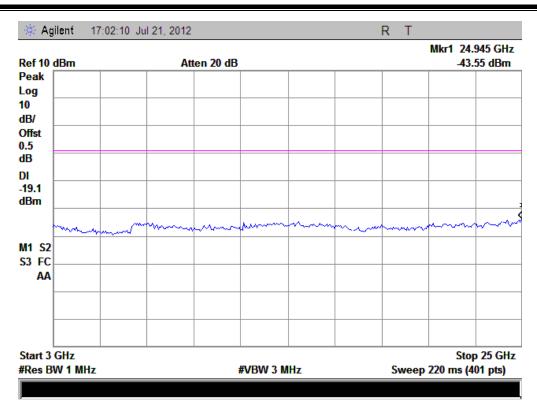
5.3.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

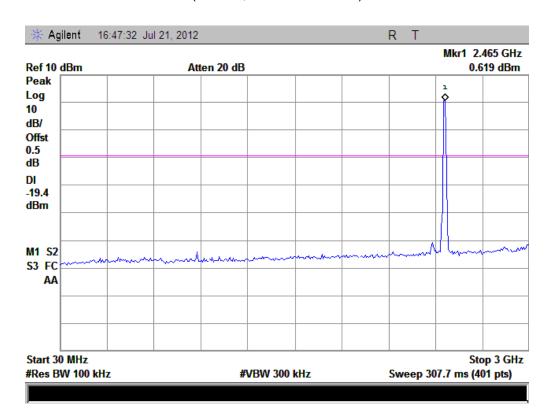
802.11b Test Mode

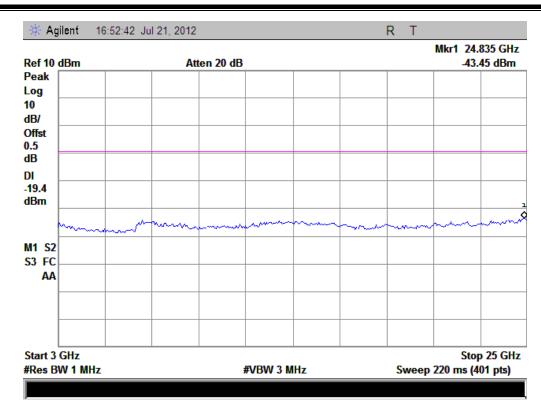








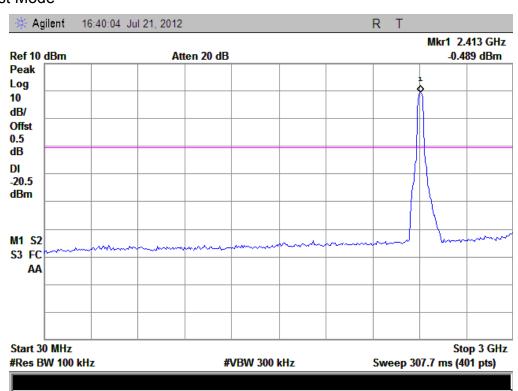


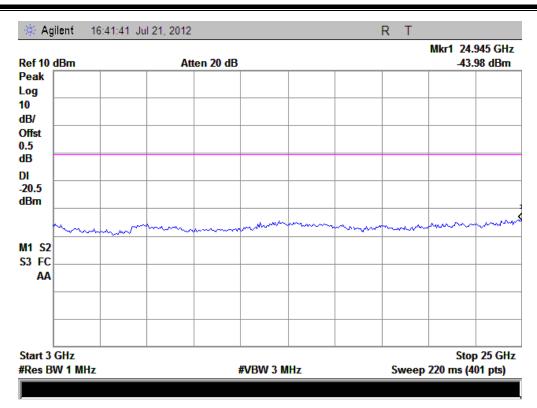


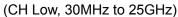
(CH High, 30MHz to 25GHz)

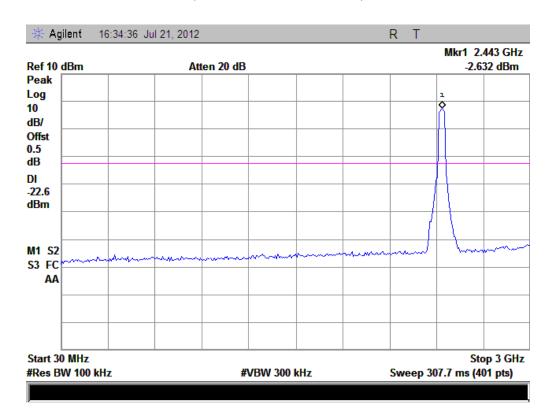
Note: The power of the Module transmitting frequency should be ignored.

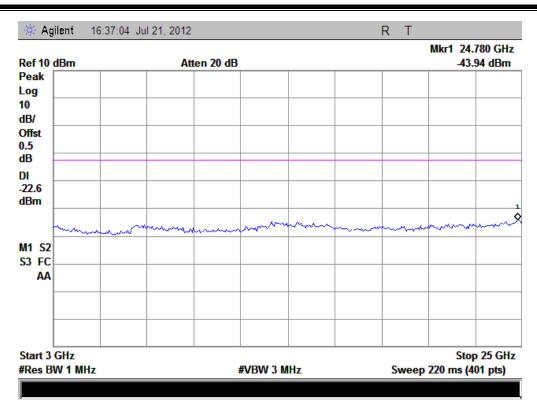
802.11g Test Mode



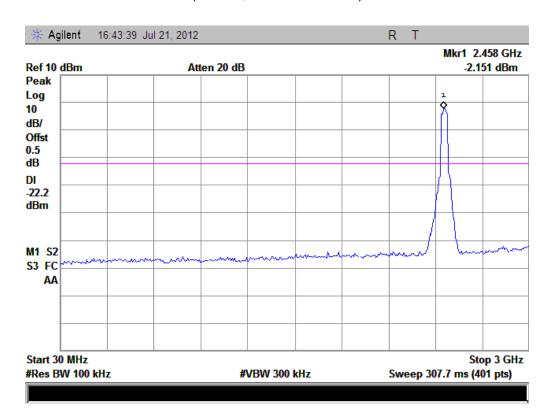


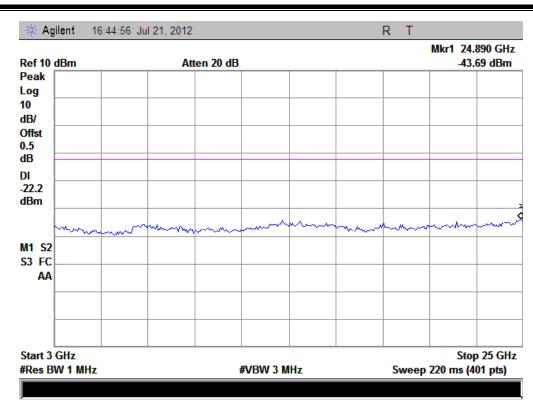








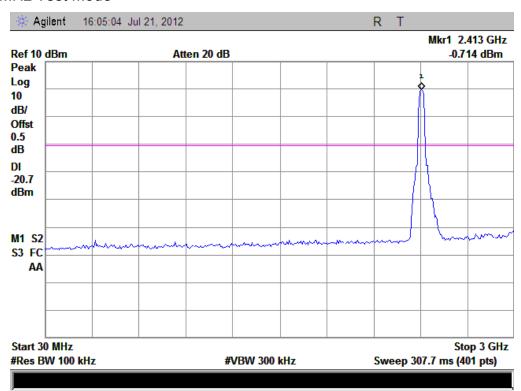


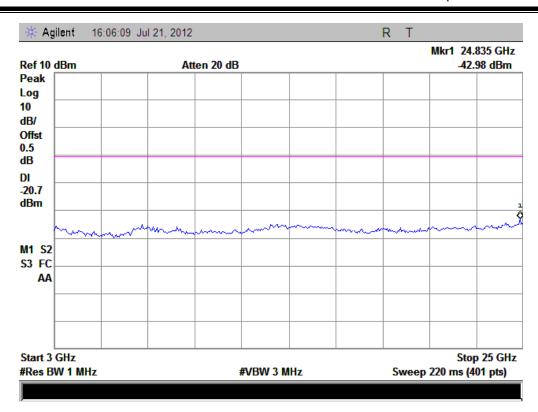


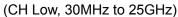
(CH High, 30MHz to 25GHz)

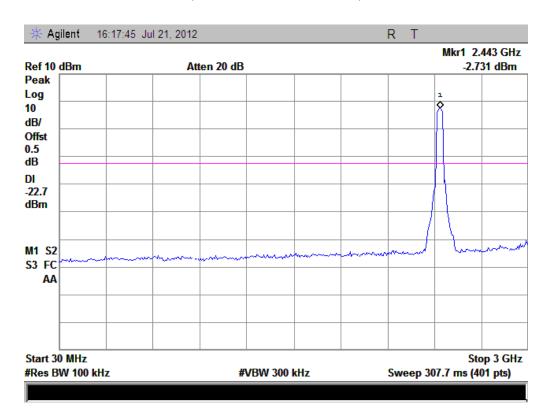
Note: The power of the Module transmitting frequency should be ignored.

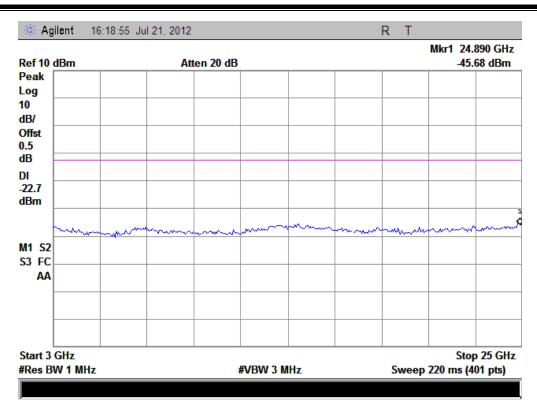
802.11n-20MHz Test Mode



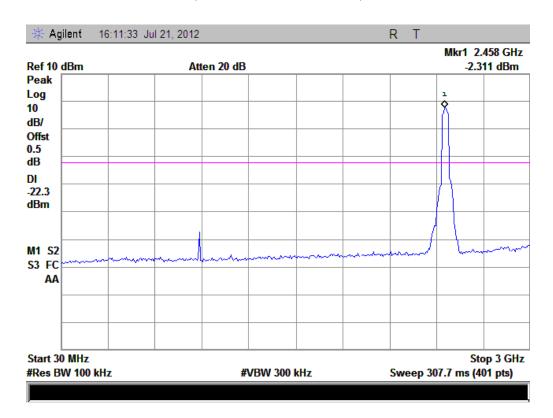


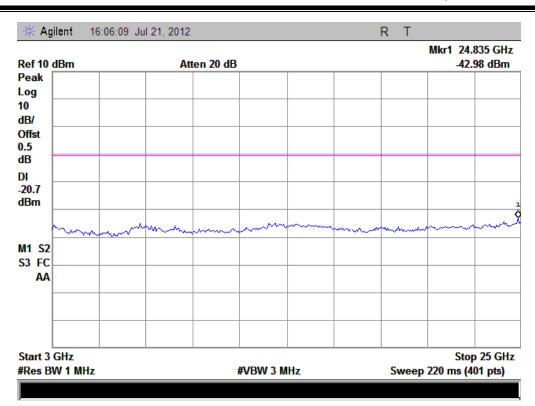








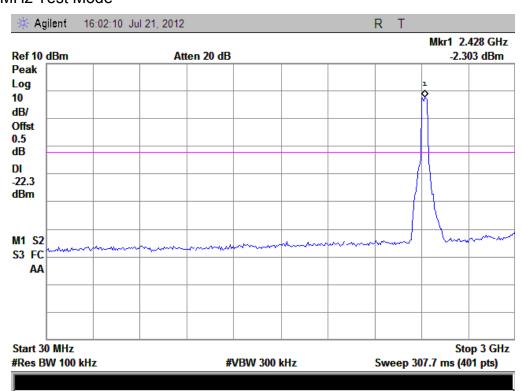


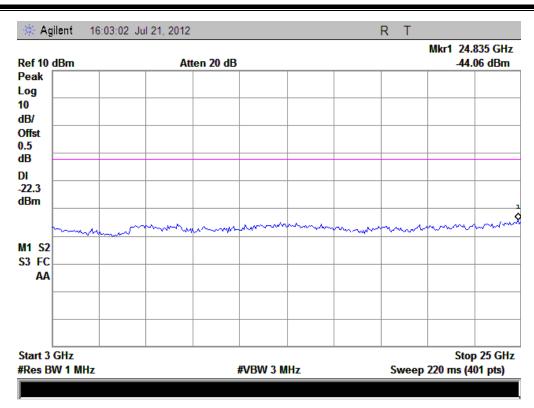


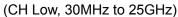
(CH High, 30MHz to 25GHz)

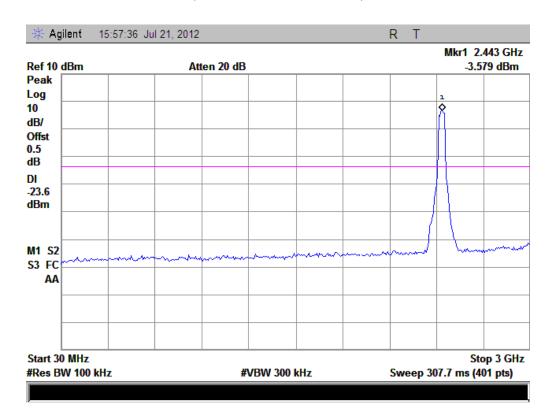
Note: The power of the Module transmitting frequency should be ignored.

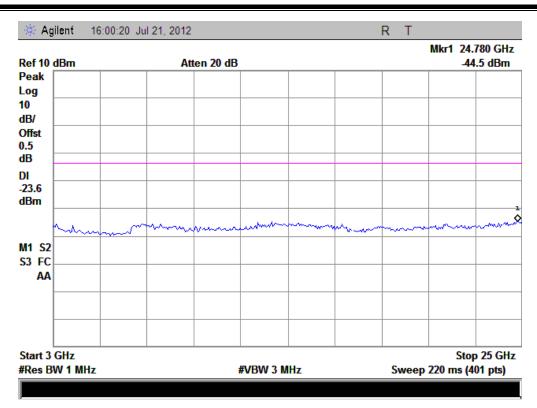
802.11n-40MHz Test Mode



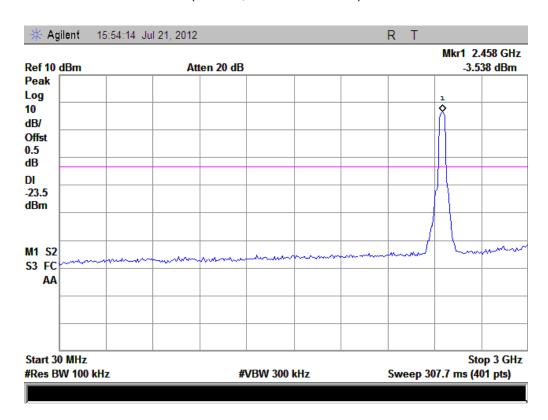


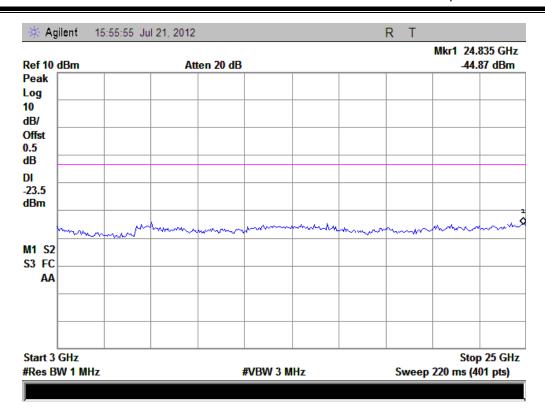






(CH Mid, 30MHz to 25GHz)





(CH High, 30MHz to 25GHz)

Note: The power of the Module transmitting frequency should be ignored.

5.4 Band Edge

5.4.1 **Definition**

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, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

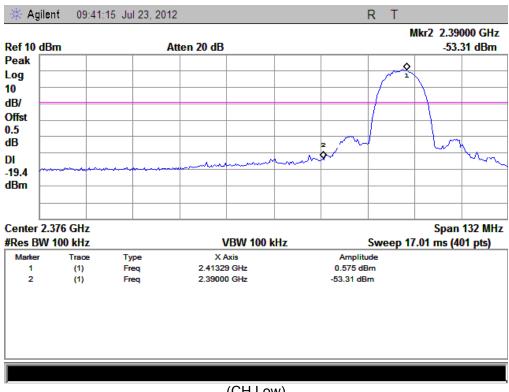
5.4.2 **Test Description**

See section 5.1.2 of this report.

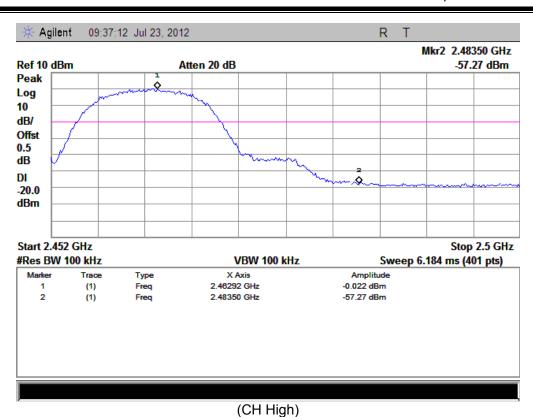
5.4.3 **Test Result**

The EUT operates at continuous transmit test mode. The test data of the lowest and highest channels are tested to verify the band edge emissions.

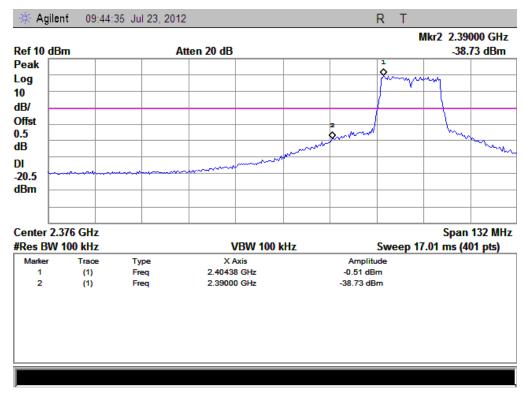
802.11b Test Mode



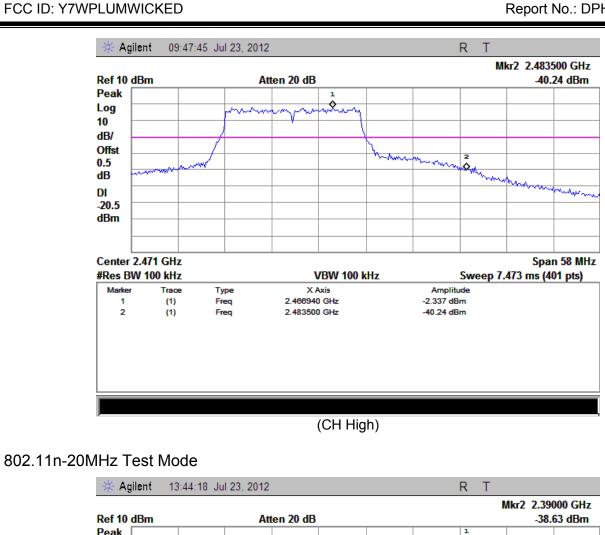
(CH Low)

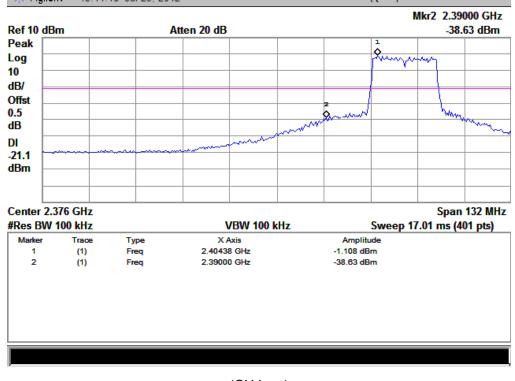


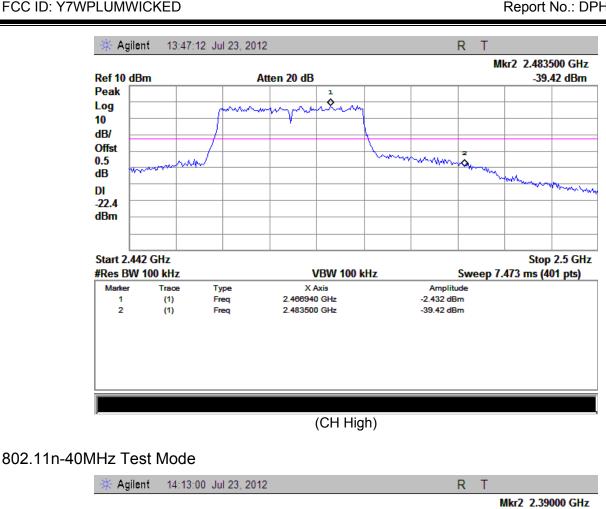
802.11g Test Mode

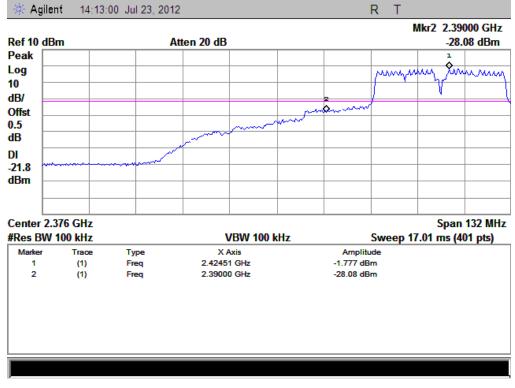


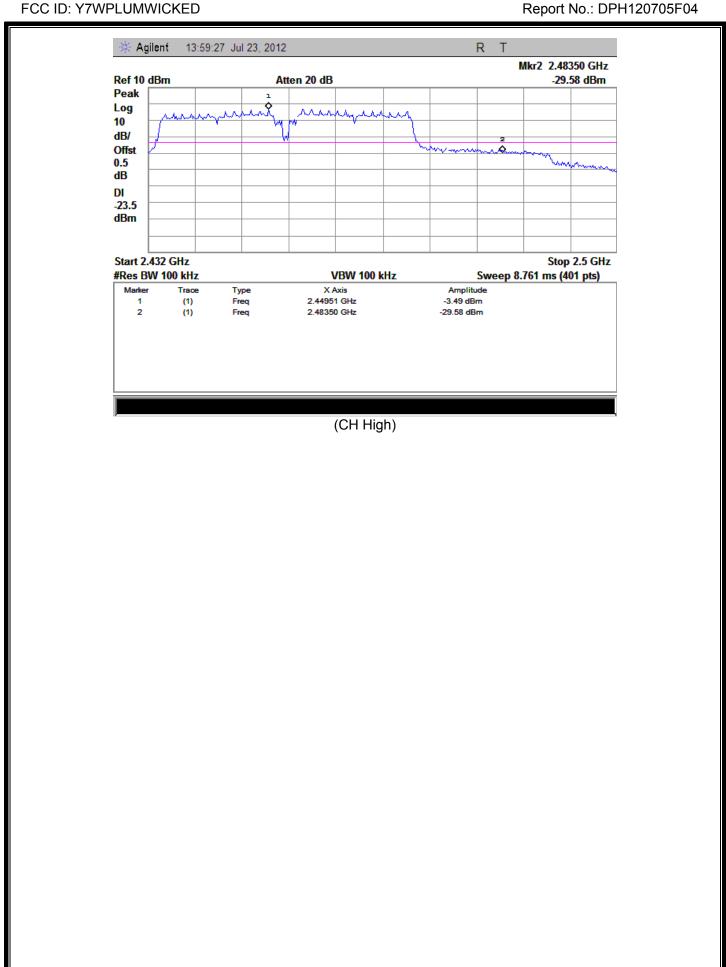
(CH Low)











5.5 Power Spectral Density (PSD)

5.5.1 **Definition**

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.

Test Description

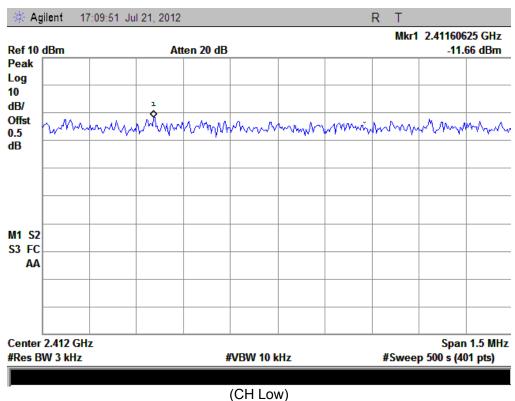
See section 5.1.2 of this report.

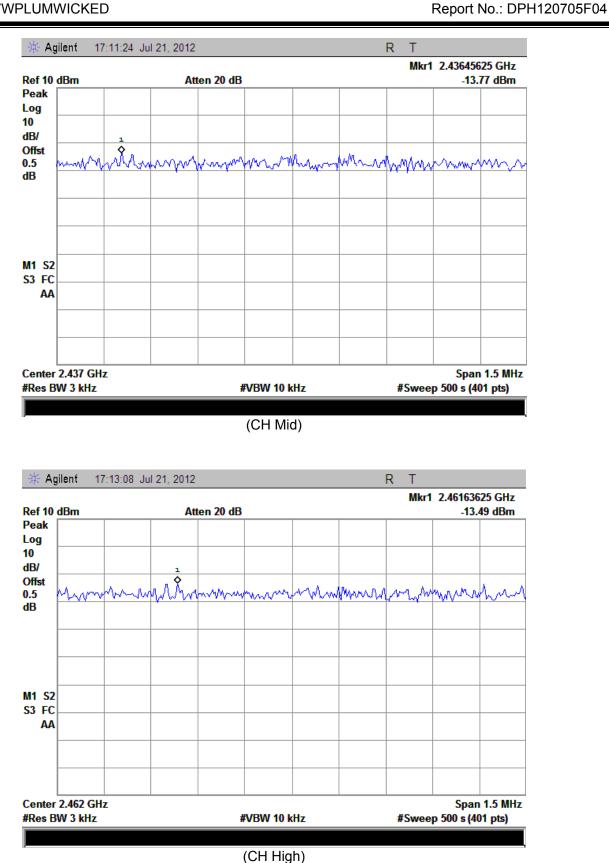
5.5.3 **Test Result**

The lowest, middle and highest channels are tested to verify the power spectral density.

802.11b Test Mode

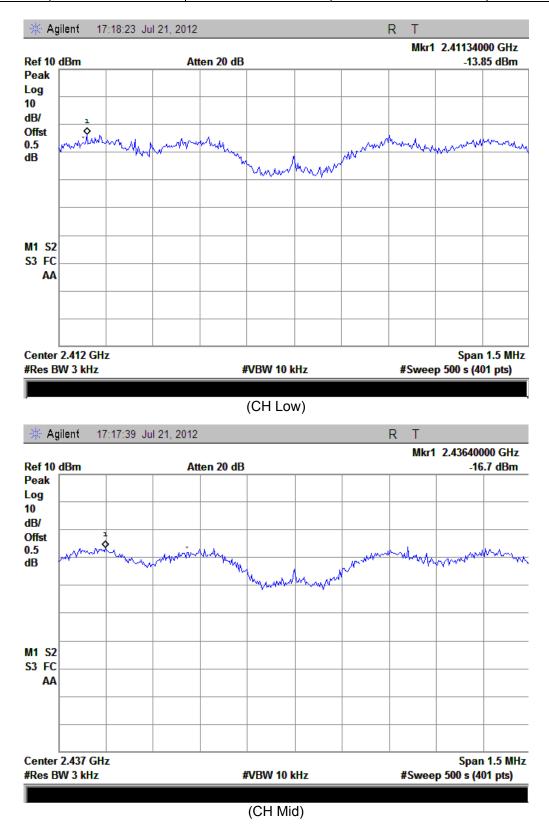
Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-11.66	≤8	PASS
6	2437	-13.77	≤8	PASS
11	2462	-13.49	≤8	PASS

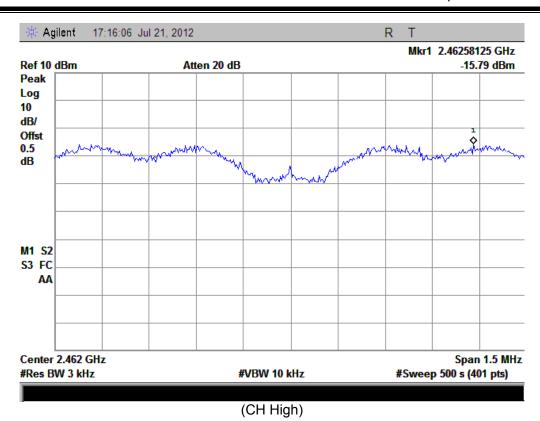




802.11g Test Mode

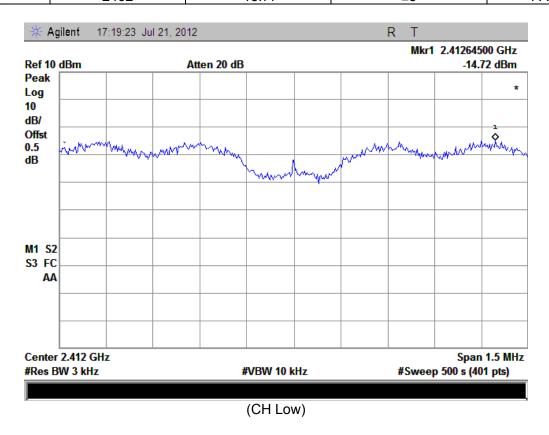
Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-13.85	≤8	PASS
6	2437	-16.70	≤8	PASS
11	2462	-15.79	≤8	PASS

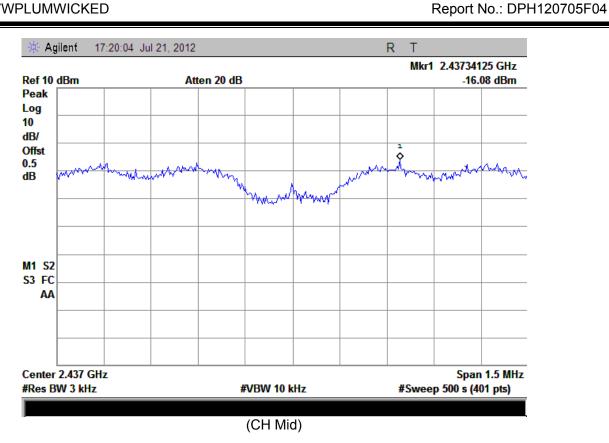


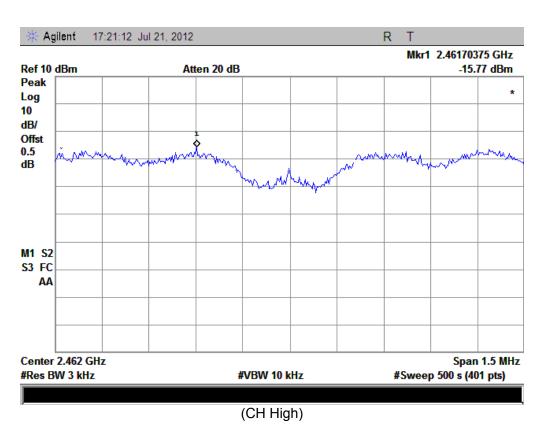


802.11n-20MHz Test Mode

Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-14.72	≤8	PASS
6	2437	-16.08	≤8	PASS
11	2462	-15.77	≤8	PASS

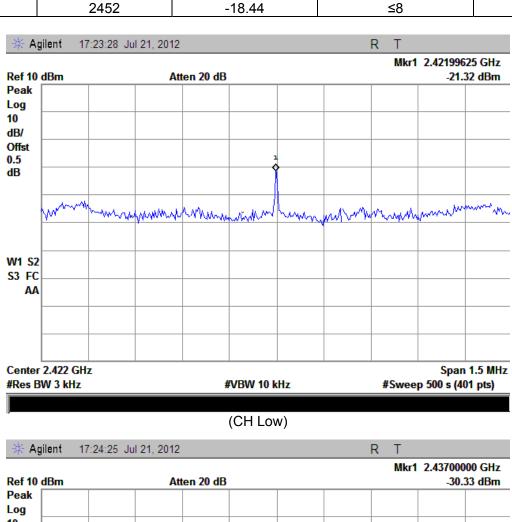


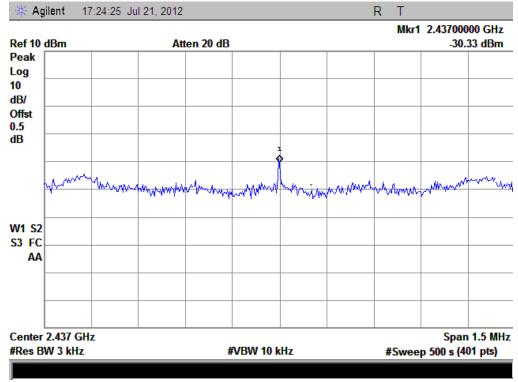




802.11n-40MHz Test Mode

Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
3	2422	-19.86	≤8	PASS
6	2437	-17.35	≤8	PASS
9	2452	-18.44	≤8	PASS





(CH Mid)

Ref 10 dBm

Peak Log 10 dB/ Offst 0.5 dB

W1 S2 S3 FC AA

Center 2.452 GHz

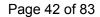
#Res BW 3 kHz

* Agilent 17:25:01 Jul 21, 2012

Atten 20 dB

#VBW 10 kHz

(CH High)



5.6 Conducted Emission

5.6.1 Definition

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).

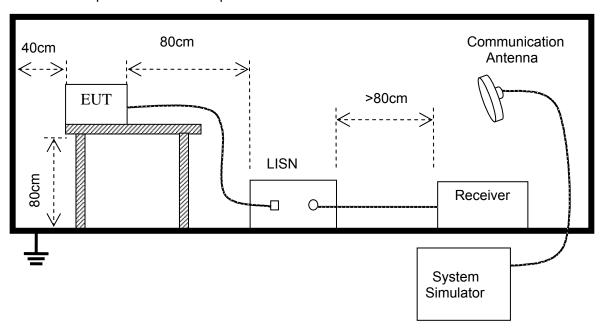
Eroguenov	Maximum RF	Line Voltage		
Frequency	Q.P.(dBuV)	Average(dBuV)		
150kHz-500kHz	66-56	56-46		
500kHz-5MHz	56	46		
5MHz-30MHz	60	50		

Note:

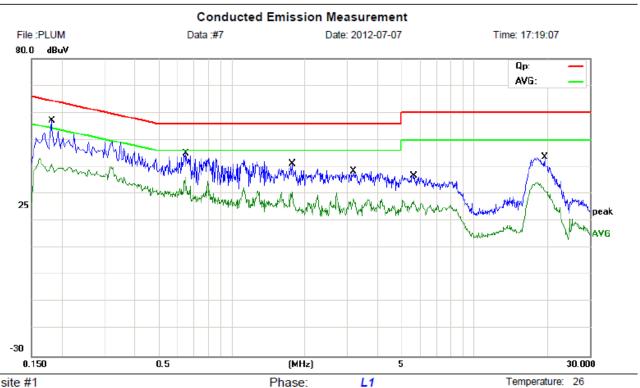
- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.6.2 Test Description

The EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power.



5.6.3 Test Result



Site site #1 Phase: L Limit: FCC Part15 B Class B QP Power: 120V/60Hz

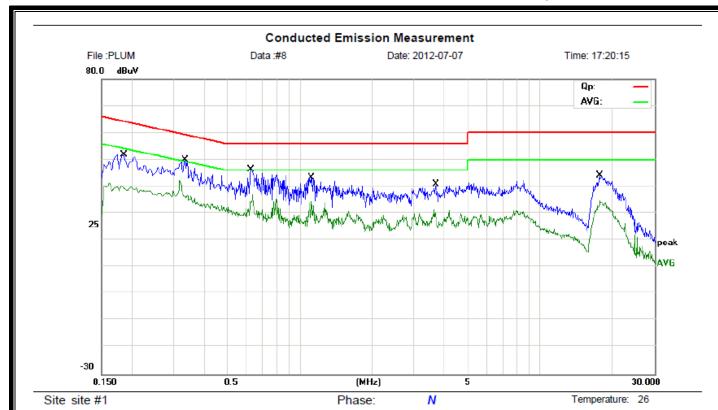
EUT: MOBILE PHONE

M/N: Wicked Mode: wifi Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBu∨	dB	Detector	Comment
1 *	0.1820	46.21	10.92	57.13	64.39	-7.26	QP	
2	0.6540	34.82	10.00	44.82	56.00	-11.18	QP	
3	1.7820	31.94	9.22	41.16	56.00	-14.84	QP	
4	3.1940	28.27	10.19	38.46	56.00	-17.54	QP	
5	5.6660	25.13	11.60	36.73	60.00	-23.27	QP	
6	19.5340	34.55	9.00	43.55	60.00	-16.45	QP	

Humidity: 60 %

^{*:}Maximum data x:Over limit !:over margin



Limit: FCC Part15 B Class B QP

EUT: MOBILE PHONE

M/N: Wicked Mode: wifi Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	0.1860	40.77	11.16	51.93	64.21	-12.28	QP		
2 *	0.3340	38.70	11.11	49.81	59.35	-9.54	QP		
3	0.6300	36.27	10.00	46.27	56.00	-9.73	QP		
4	1.1220	33.45	9.88	43.33	56.00	-12.67	QP		
5	3.6980	30.23	10.70	40.93	56.00	-15.07	QP		
6	17.6780	35.02	9.00	44.02	60.00	-15.98	QP		

Power: 120V/60Hz

Humidity: 60 %

^{*:}Maximum data x:Over limit !:over margin

5.7 Radiated Emission

5.7.1 Definition

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

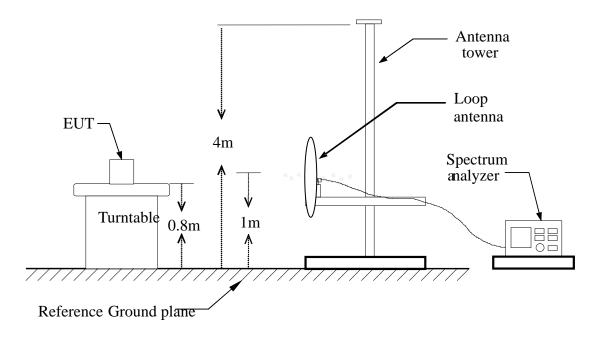
According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

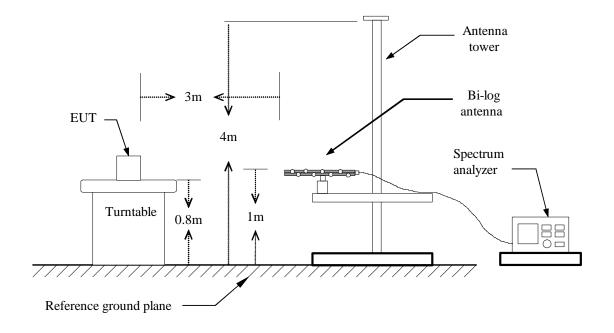
As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

5.7.2 Test Description

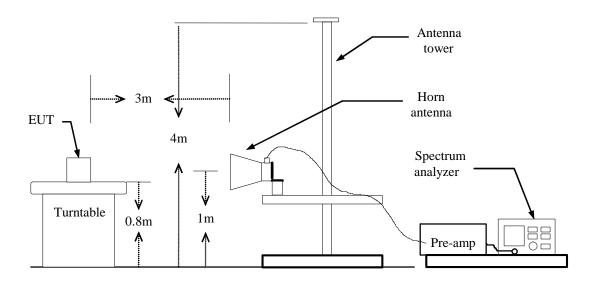
A. Test Setup:



Blow 1GHz:



Above 1GHz:



B. Test procedures

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz: (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=1MHz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

FCC ID: Y7WPLUMWICKED Report No.: DPH120705F04

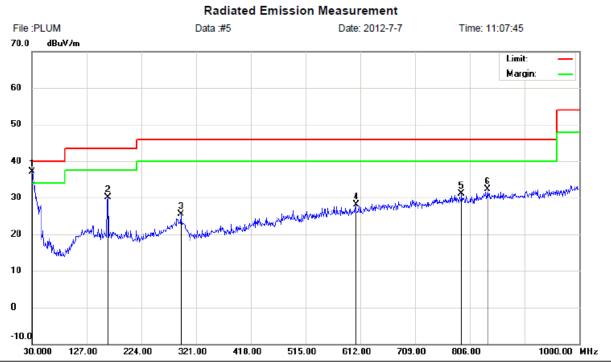
5.7.3 Test Result

Form 9 KHz to 30MHz:

N/A	Ant. Pol	Peak	Ant. / CL	Actual Fs	Peak	Peak
(MHz)	H/V	Reading	CF	Actual FS	Limit	Margin
		(dBuV)	(dB)	Peak	(dBuV/m)	(dB)
				(dBuV/m)		
	Н					
	Н					
	Н					
N/A						>20
	V					
	V					
	V					
N/A						>20

-Note: No test data was detected in below 30MHz.

Below 1 GHz



Site site MOST 3M

Polarization: Vertical

Temperature: 26

61 %

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity:

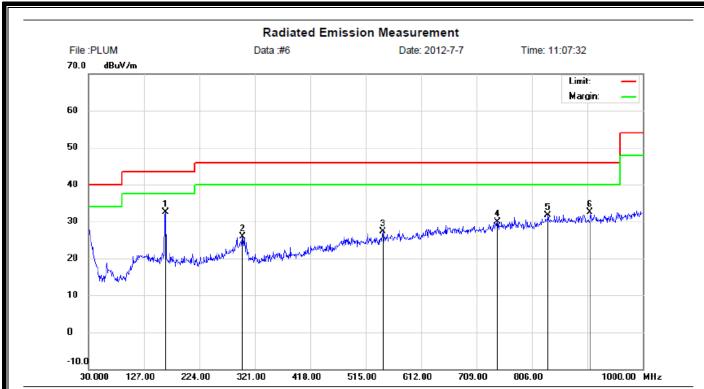
Distance:

EUT: Phone M/N: Wicked

Mode: WIFI

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	*	30.9700	13.07	24.05	37.12	40.00	-2.88	QP			
2		164.8300	12.91	17.21	30.12	43.50	-13.38	QP			
3		293.8400	6.18	19.32	25.50	46.00	-20.50	QP			
4		604.2400	4.94	23.17	28.11	46.00	-17.89	QP			
5		791.4500	5.11	25.98	31.09	46.00	-14.91	QP			
6		837.0400	5.23	27.10	32.33	46.00	-13.67	QP			

^{*:}Maximum data x:Over limit !:over margin



Site site MOST 3M

Limit: FCC Part15 B 3M Radiation

EUT: Phone M/N: Wicked

Mode: WIFI Note: Polarization: Horizontal

Power: AC 120V/60Hz

Temperature: 26

Humidity: 61 %

Distance:

No.	Mk	c. 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	*	164.8300	15.27	17.21	32.48	43.50	-11.02	QP			
2		299.6600	6.60	19.30	25.90	46.00	-20.10	QP			
3		545.0700	4.93	22.30	27.23	46.00	-18.77	QP			
4		745.8600	4.02	25.80	29.82	46.00	-16.18	QP			
5		834.1300	4.61	27.08	31.69	46.00	-14.31	QP			
6		907.8500	5.04	27.56	32.60	46.00	-13.40	QP			

^{*:}Maximum data x:Over limit !:over margin

FCC ID: Y7WPLUMWICKED Report No.: DPH120705F04

Above 1 GHz

Operation Mode: TX/ IEEE 802.11b/CH Low Test Date: 2012-06-13

Temperature: 20°C Humidity: 70 % RH

Freq. (MHz) 4824.5 N/A 4824.5 N/A	Ant. Pol	Peak	AV	Ant. / CL	Actu	Actual Fs		AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		dBuV	dBuV	dB)	Peak	AV	dBuV/m	dBuV/m	dB
					dBuV/m	dBuV/m			
4824.5	V	46.08	25.48	23.05	69.13	48.53	74.00	54.00	-5.47
N/A	Н								
4824.5	Н	42.24	24.29	23.05	65.29	47.34	74.00	54.00	-6.66
N/A	Н								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11b/CH Mid Test Date: 2012-06-13

Temperature: 20°C Humidity: 70 % RH

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		dBuV	dBuV	dB	Peak	AV	dBuV/m	dBuV/m	dB
					dBuV/m	dBuV/m			
4874.50	V	44.18	23.03	23.98	68.16	47.01	74.00	54.00	-6.99
N/A	V								
4874.50	Н	45.36	22.78	23.98	69.34	46.76	74.00	54.00	-7.24
N/A	Н								
								_	

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11b/CH High Test Date: 2012-06-13

Temperature: 20°C Humidity: 70 % RH

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Acti	ual Fs	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		dBuV	dBuV	dB	Peak	AV	dBuV/m	dBuV/m	dB
					dBuV/m	dBuV/m			
4924.50	V	43.68	23.08	24.86	68.54	47.94	74.00	54.00	-6.06
N/A	V								
4924.50	Н	42.53	20.45	24.86	67.39	45.31	74.00	54.00	-8.69
N/A	Н								-
									_

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH Low Test Date: 2012-06-13

Temperature: 20°C Humidity: 70 % RH

Freq. (MHz)	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF	7101001110		Limit	Limit	Margin
		dBuV	dBuV	dB)	Peak	AV	dBuV/m	dBuV/m	dB
					dBuV/m	dBuV/m			
4824.5	V	45.14	26.28	23.05	68.19	49.33	74.00	54.00	-4.67
N/A	V								
N/A									
4824.5	Н	44.62	25.27	23.05	67.67	48.32	74.00	54.00	-5.68
N/A	Н								
N/A									

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH Mid Test Date: 2012-06-13

Temperature: 20°C **Humidity:** 70 % RH

Freq. (MHz)	Ant. Pol	Peak	AV	Ant. / CL	Actu	ıal Fs	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		dBuV	dBuV	dB)	Peak	AV	dBuV/m	dBuV/m	dB
					dBuV/m	dBuV/m			
4874.50	V	45.36	24.67	23.98	69.34	48.65	74.00	54.00	-5.35
N/A	V								
N/A									
4874.50	Н	43.95	22.13	23.98	67.93	46.11	74.00	54.00	-7.89
N/A	Н		_						
N/A									

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH High Test Date: 2012-06-13

Temperature: 20°C Humidity: 70 % RH

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	ıal Fs	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF	710144110		Limit	Limit	Margin
		dBuV	dBuV	dB)	Peak	AV	dBuV/m	dBuV/m	dB
					dBuV/m	dBuV/m			
4924.50	V	44.28	24.11	24.86	69.14	48.97	74.00	54.00	-5.03
N/A	V								
4924.50	Н	43.77	22.70	24.86	68.63	47.56	74.00	54.00	-6.44
N/A	Н								_

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11n/CH Low Test Date: 2012-06-13

Temperature: 20°C Humidity: 70 % RH

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		dBuV	dBuV	dB)	Peak	AV	dBuV/m	dBuV/m	dB
					dBuV/m	dBuV/m			
4824.5	V	44.80	23.52	23.05	67.85	46.57	74.00	54.00	-7.43
N/A	V								
4824.5	Н	44.48	22.24	23.05	67.53	45.29	74.00	54.00	-8.71
N/A	Н								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11n/CH Mid Test Date: 2012-06-13

Temperature: 20°C Humidity: 70 % RH

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	ıal Fs	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF	7.000		Limit	Limit	Margin
		dBuV	dBuV	dB)	Peak	AV	dBuV/m	dBuV/m	dB
					dBuV/m	dBuV/m			
4874.50	V	44.06	23.16	23.98	68.04	47.14	74.00	54.00	-6.86
N/A	V								
4874.50	Н	43.85	22.49	23.98	67.83	46.47	74.00	54.00	-7.53
N/A	Н								

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11n/CH High Test Date: 2012-06-13

Temperature: 20°C Humidity: 70 % RH

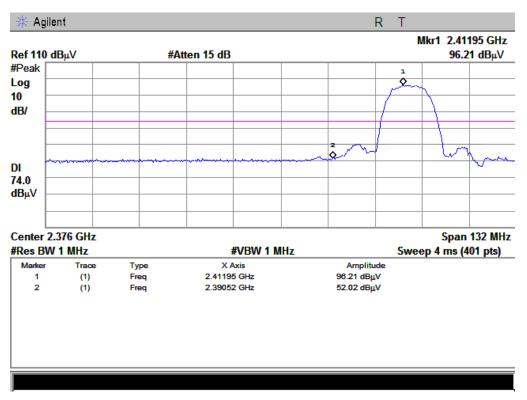
Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	ıal Fs	Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		dBuV	dBuV	dB)	Peak	AV	dBuV/m	dBuV/m	dB
					dBuV/m	dBuV/m			
4924.50	V	43.23	24.47	24.86	68.09	49.33	74.00	54.00	-4.67
N/A	V								
N/A									
4924.50	Н	42.63	22.32	24.86	67.49	47.18	74.00	54.00	-6.82
N/A	Н								
N/A									

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

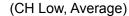
Test Range of "2.31GHz to 2.5GHz"

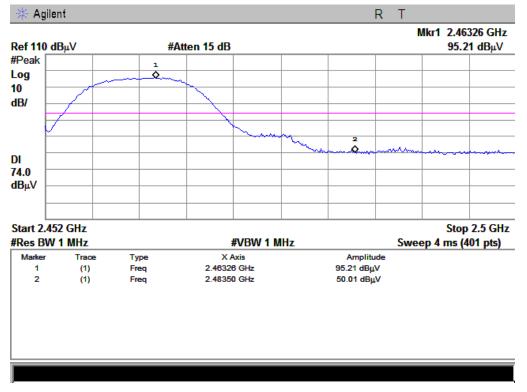
802.11b Test Mode

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarization	Detector
2390.00	52.02	74.00	21.98	100.00	256.00	Vertical	Peak
2390.00	43.11	54.00	10.89	100.00	152.00	Horizontal	Average
2483.50	50.01	74.00	23.99	100.00	120.00	Vertical	Peak
2403.30	42.21	54.00	11.79	100.00	120.00	Horizontal	Average

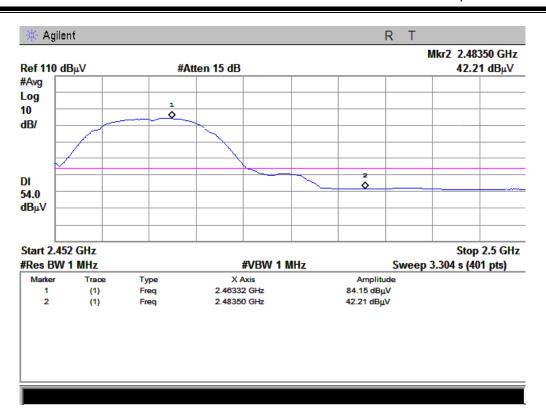


(CH Low, Peak)





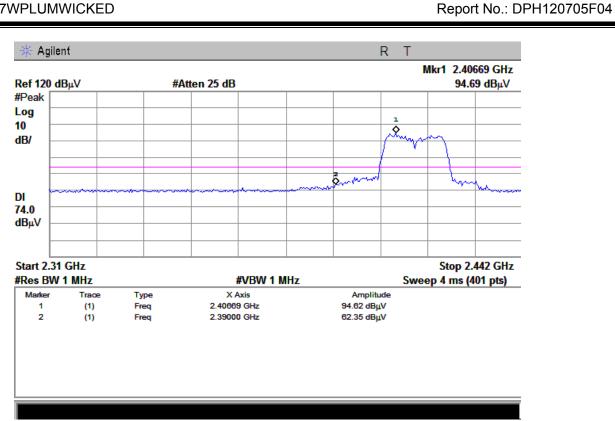
(CH High, Peak)



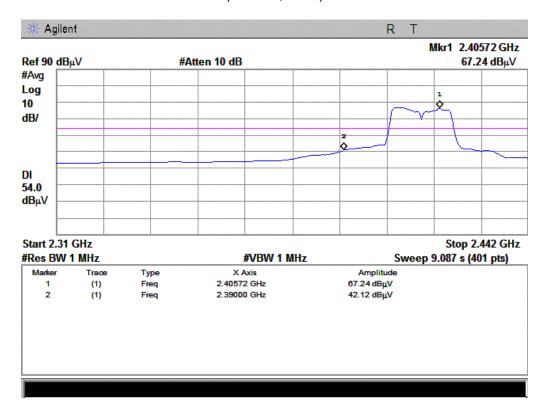
(CH High, Average)

802.11g Test Mode

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarization	Detector
2390.00	62.35	74.00	11.65	100.00	220.00	Vertical	Peak
2390.00	42.12	54.00	11.88	100.00	135.00	Vertical	Average
2492.50	61.26	74.00	12.74	200.00	330.00	Horizontal	Peak
2483.50	46.06	54.00	7.94	100.00	120.00	Horizontal	Average



(CH Low, Peak)



(CH Low, Average)

🔆 Agilent

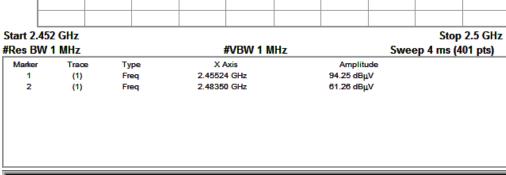
Ref 110 dBµV

Q

#Peak Log

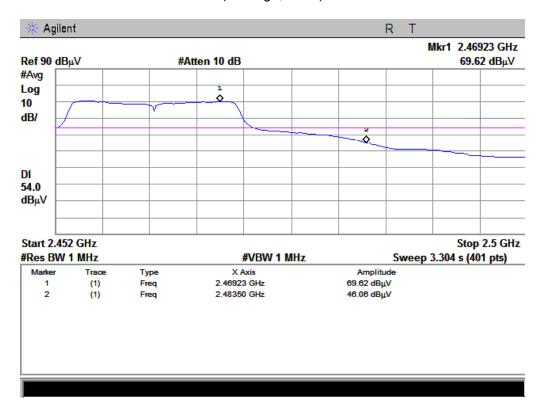
10 dB/

DI 74.0 dBμV



#Atten 25 dB

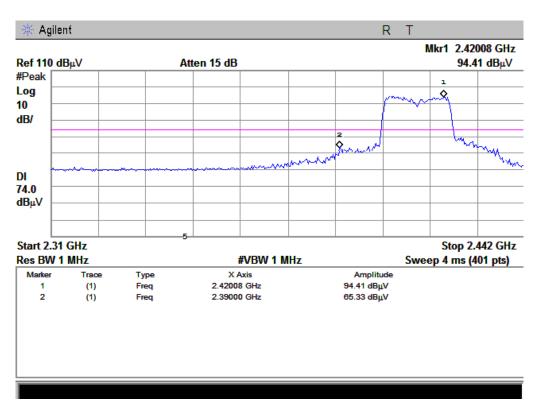
(CH High, Peak)



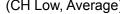
(CH High, Average)

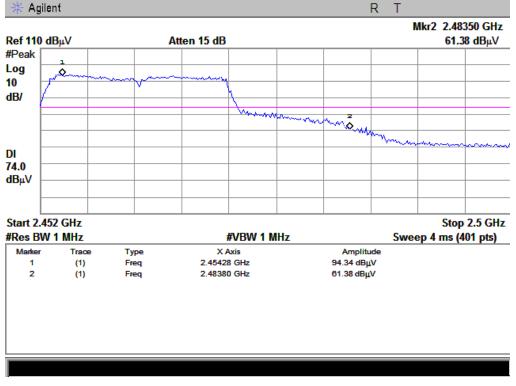
802.11n-20MHz Test Mode

Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarization	Detector
	65.33	74.00	8.67	200.00	245.00	Vertical	Peak
2390.00	44.90	54.00	9.10	100.00	135.00	Horizontal	Average
2492.50	61.38	74.00	12.62	100.00	95.00	Vertical	Peak
2483.50	44.23	54.00	9.77	100.00	120.00	Horizontal	Average

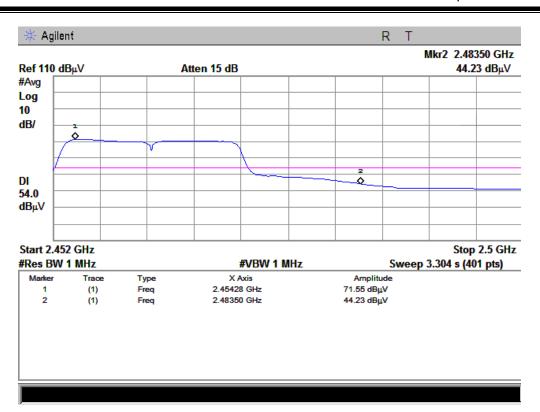


(CH Low, Peak)





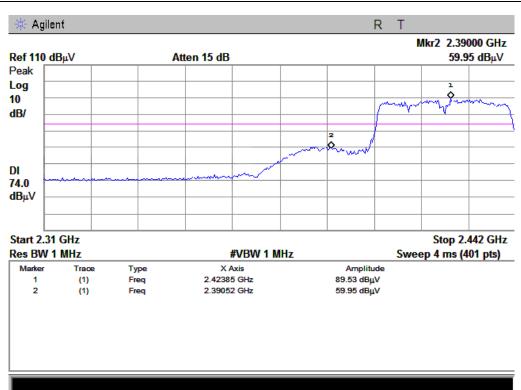
(CH High, Peak)



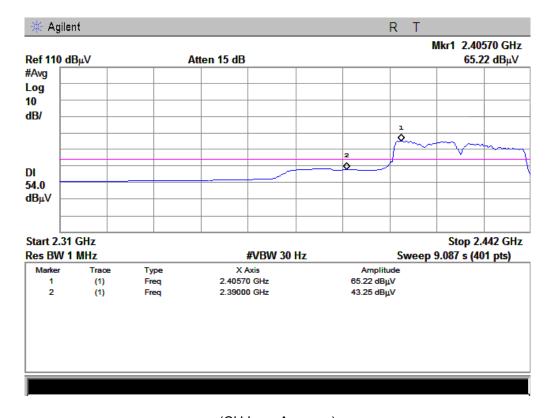
(CH High, Average)

802.11n-40MHz Test Mode

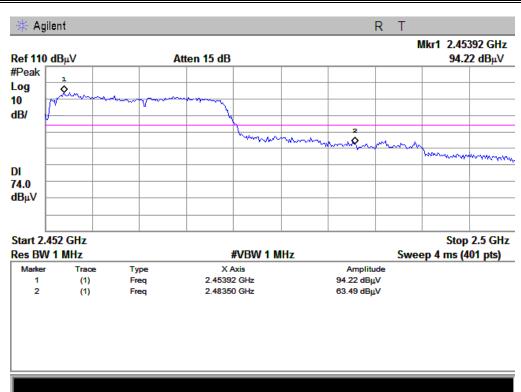
Frequency (MHz)	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarization	Detector
2390.00	59.95	74.00	14.05	100.00	225.00	Vertical	Peak
2390.00	43.25	54.00	10.75	100.00	145.00	Horizontal	Average
2492 50	63.49	74.00	10.51	200.00	120.00	Vertical	Peak
2483.50	40.56	54.00	13.44	100.00	120.00	Horizontal	Average



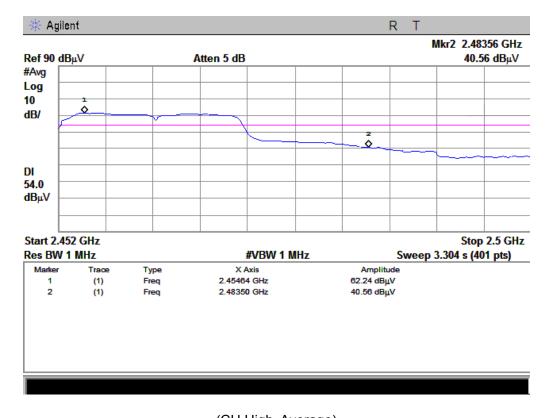
(CH Low, Peak)



(CH Low, Average)



(CH High, Peak)



(CH High, Average)

FCC ID: Y7WPLUMWICKED	Report No.: DPH120705F04
APPENDIX 1	
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PHOTOGRAPHS OF TEST S	SETUP

CE TEST SETUP

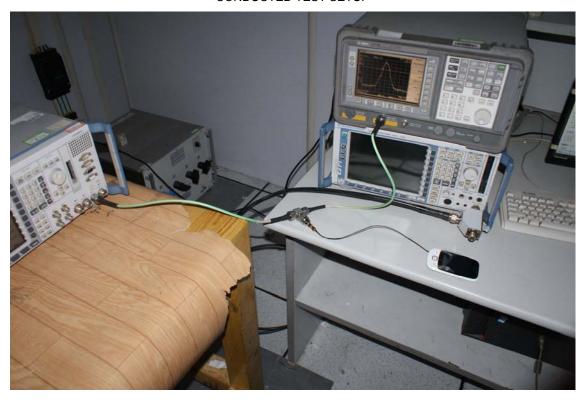


RE TEST SETUP





CONDUCTED TEST SETUP



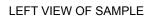
FCC ID: Y7WPLUMWICKED	Report No.: DPH120705F04
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BACK VIEW OF SAMPLE







RIGHT VIEW OF SAMPLE



UP VIEW OF SAMPLE



DOWN VIEW OF SAMPLE



PHOTO OF CHARGER



PHOTO OF HEADPHONE



PHOTO OF BATTERY



PHOTO OF USB CABLE



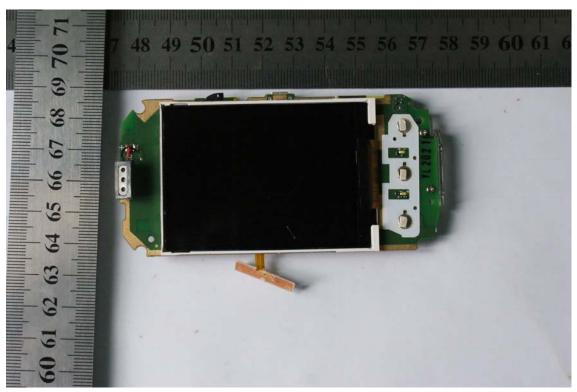
INTERNAL PHOTO OF SAMPLE - 1



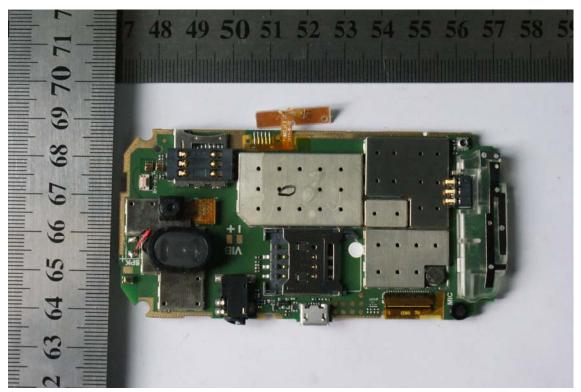
INTERNAL PHOTO OF SAMPLE -2



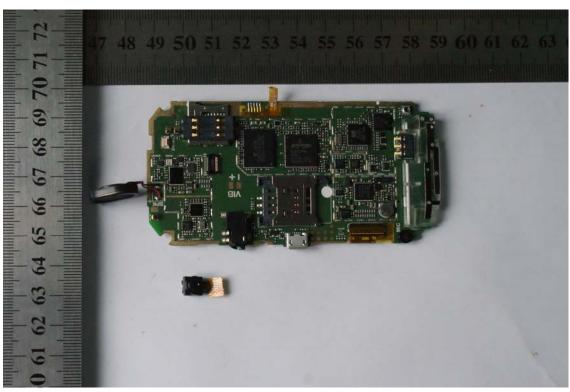
INTERNAL PHOTO OF SAMPLE - 3



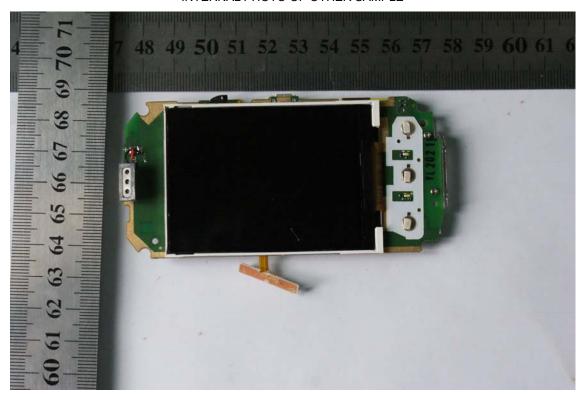
INTERNAL PHOTO OF SAMPLE - 4



INTERNAL PHOTO OF SAMPLE - 5



INTERNAL PHOTO OF OTHER SAMPLE





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