



# FCC TEST REPORT

According to

## FCC Rules and Regulations Part 15 Subpart C

Applicant	:	Y-cam Solutions Ltd
Address	:	Vision House, 3 Dee Road, Richmond, Surrey, TW9 2JN, United Kingdom
Equipment	:	802.11B/G/N (1T1R) Wifi Moduleb
Model No.	:	LP-8627M
Trade Name	:	Y-cam Solutions Ltd
FCC ID	:	V4FYCBLHD6

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of **Cerpass Technology Corp.**, the test report shall not be reproduced except in full.
- The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



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## History of this test report

■ ORIGINAL.

Additional attachment as following record:



# CERTIFICATE OF COMPLIANCE

According to

## FCC Rules and Regulations

### Part 15 Subpart C

Applicant : Y-cam Solutions Ltd  
Address : Vision House, 3 Dee Road, Richmond,  
              Surrey, TW9 2JN, United Kingdom  
Equipment : 802.11B/G/N (1T1R) Wifi Moduleb  
Model No. : LP-8627M  
FCC ID : V4FYCBLHD6

#### I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 2009, KDB558074 & KDB662911**. The equipment was **passed** the test performed according to **FCC Rules and Regulations Part 15 Subpart C (2010)**.

The test was carried out on Jul. 05, 2012 at Cerpass Technology Corp.

Approved by:

Hill Chen

EMC/RF B.U. Assistant Manager

Tested by:

Tom Tai

Engineer



## 1. Report of Measurements and Examinations

### 1.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. Conducted Emission	Pass
15.209 15.247(d)	. Radiated Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak Output Power	Pass
15.247(d)	. 100kHz Bandwidth of Frequency Band Edges	Pass
15.247(e)	. Power Spectral Density	Pass
1.1307 1.1310 2.1091 2.1093	. RF Exposure Compliance	Pass



## 2. Test Configuration of Equipment under Test

### 2.1 Feature of Equipment under Test

Standard	IEEE 802.11b/g/n
Antenna	Dipole Antenna
Chipset	Realtek RTL8188CUS
Frequency Band	2.400GHz ~ 2.484GHz unlicensed ISM band
Interface	USB 2.0 with Pinhead
Modulation Technique	Orthogonal frequency division multiplexing (OFDM). Direct Sequence Spread Spectrum (CCK,DQPSK,DBPSK)
Operation System Support	Windows® 2000, XP 32/64, Win7 32/64
Output Power	11b: 20dBm(Typical)±1 11g: 16dBm(Typical)±1 11n: 15dBm(Typical)±1
Data Rate	802.11b : 11,5.5,2 and 1 Mbps with auto-rate fall back 802.11g : 54,48,36,24,18,12,9&6 Mbps with auto-rate fall back 802.11n : (20MHz) : 150, 54, 48, 36, 24, 12, 9, 6, 11, 5.5, 2, 1 Mbps(Auto Rate Sensing)
Sensitivity	-94dBm @ 802.11b -89dBm @ 802.11g -88dBm @ 802.11n
Security	64/128 bit WEP WPA WPA2(TKIP/AES)
Driver support	Window®XP 32/64, Vista 32/64, Win7 32/64
Operation Temperature	0°C~60°C ambient temperature
Storage Temperature	-20°C~70°C ambient temperature
Storage Humidity	10%~90%(Non-condensing)



## 2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT 20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	---	---

802.11n, HT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	08	2447
---	---	09	2452
03	2422	---	---
04	2427	---	---
05	2432	---	---
06	2437	---	---
07	2442	---	---

## 2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
  - b. The complete test system included Notebook and EUT for RF test.
  - c. The EUT was executed to keep transmitting and receiving data via Wireless.
  - d. The following test modes were performed for test:
    - 802.11b/g/n HT20: CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
    - 802.11n HT40: CH03: 2422MHz, CH06: 2437MHz, CH09: 2452MHz
- \* Power output of data rate:

802.11b		802.11g		802.11n HT20		802.11n HT40	
Data Rate (Mbps)	Power output (dBm)						
11	20.17	54	16.27	130/15	15.23	270/15	15.47
5.5	20.15	48	16.18	117/14	15.18	243/14	15.42
2	20.12	36	16.21	104/13	15.15	216/13	15.41
1	20.10	24	16.18	78/12	15.21	162/12	15.37
---	---	18	16.22	52/11	15.17	108/11	15.38
---	---	12	16.26	39/10	15.17	81/10	15.35
---	---	9	16.24	26/9	15.20	54/9	15.40
---	---	6	16.21	13/8	15.18	27/8	15.37
---	---	---	---	65/7	15.22	135/7	15.34
---	---	---	---	58.5/6	15.17	121.5/6	15.33
---	---	---	---	52/5	15.18	108/5	15.38
---	---	---	---	39/4	15.19	81/4	15.33
---	---	---	---	26/3	15.17	54/3	15.38
---	---	---	---	19.5/2	15.18	40.5/2	15.34
---	---	---	---	13/1	15.17	27/1	15.34
---	---	---	---	6.5/0	15.18	13.5/0	15.34



## 2.4 Description of Test System

Device	Manufacturer	Model No.	Description
Notebook	IBM	2371	Power Cable, Unshielding 1.8m

## 2.5 General Information of Test

Test Site :	Cerpass Technology Corp. 2F-11, No. 3, Yuan Qu St., (Nankang Software Park), Taipei, Taiwan 115, R.O.C.
Test Site Location (OATS2-SD) :	No.68-1, Shihbachongsi, Shihding Township, Taipei City 223, Taiwan, R.O.C.
FCC Registration Number :	TW1049, TW1061, 488071, 390316
IC Registration Number :	4934B-1, 4934D-1
VCCI Registration Number :	T-1173 for Telecommunication Test C-4139 for Conducted emission test R-3428 for Radiated emission test G-97 for radiated disturbance above 1GHz
Test in Compliance with:	ANSI C63.4-2009 FCC Part 15 Subpart C
Frequency Range Investigated:	Conducted: from 150kHz to 30MHz Radiation: from 30MHz to 25,000MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.
Laboratory Accreditation	  Testing Laboratory 1439 NVLAP LAB CODE: 200954-0

## 2.6 Measurement Uncertainty

Measurement Item	Uncertainty
Radiated emission	±4.11dB
Peak Output Power(conducted)	±1.38dB
Peak Output Power(Radiated)	±1.70dB
Power Spectral Density	±1.39dB
Radiated emission(3m)	±4.11dB
Radiated emission(10m)	±3.89dB



### 3. Antenna Requirements

#### 3.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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 FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### 3.2 Antenna Construction and Directional Gain

Antenna Type: Dipole Antenna

Antenna Gain: 5 dBi



## 4. Test of Conducted Emission

### 4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2009 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

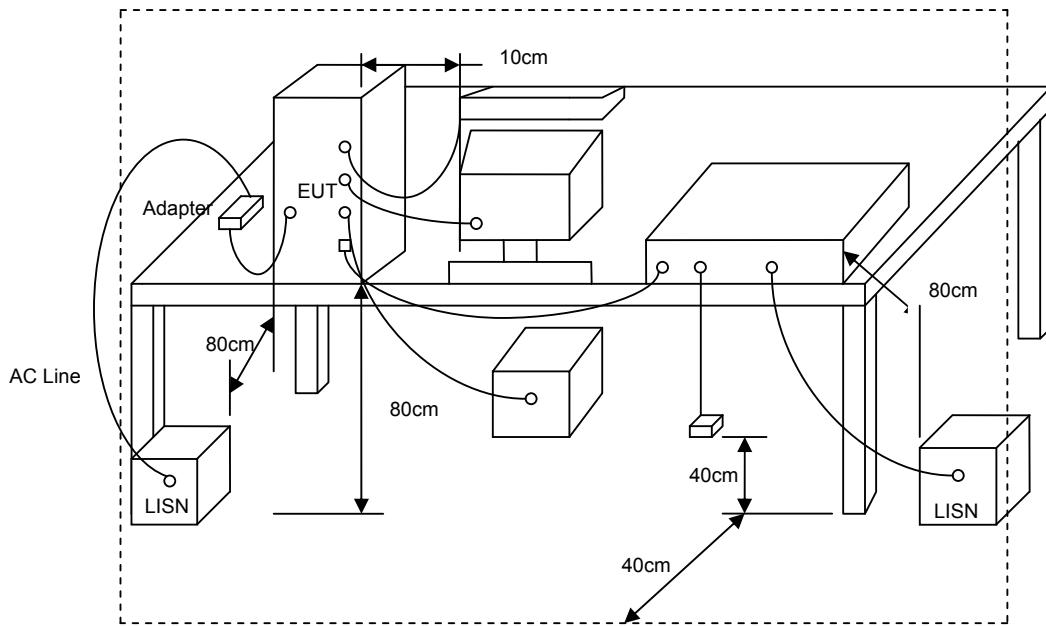
\*Decreases with the logarithm of the frequency.

### 4.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



#### 4.3 Typical Test Setup



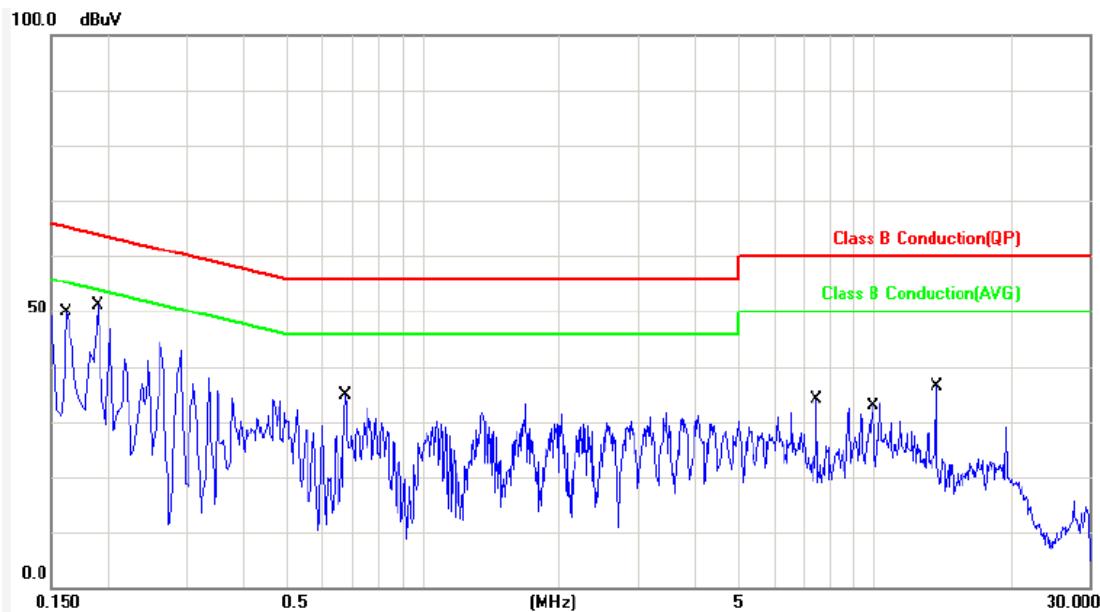
#### 4.4 Measurement Equipment

Instrument/ Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI	100443	2012/01/12	2013/01/11
LISN	Schwarzbeck	NSLK 8127	8127-516	2012/03/08	2013/03/07
LISN	Schwarzbeck	NSLK 8127	8127-568	2011/08/24	2012/08/23



#### 4.5 Test Result and Data

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 1	: 802.11g, CH1	Temperature	: 26 °C
Test Date	: Jul. 05, 2012	Humidity	: 60 %



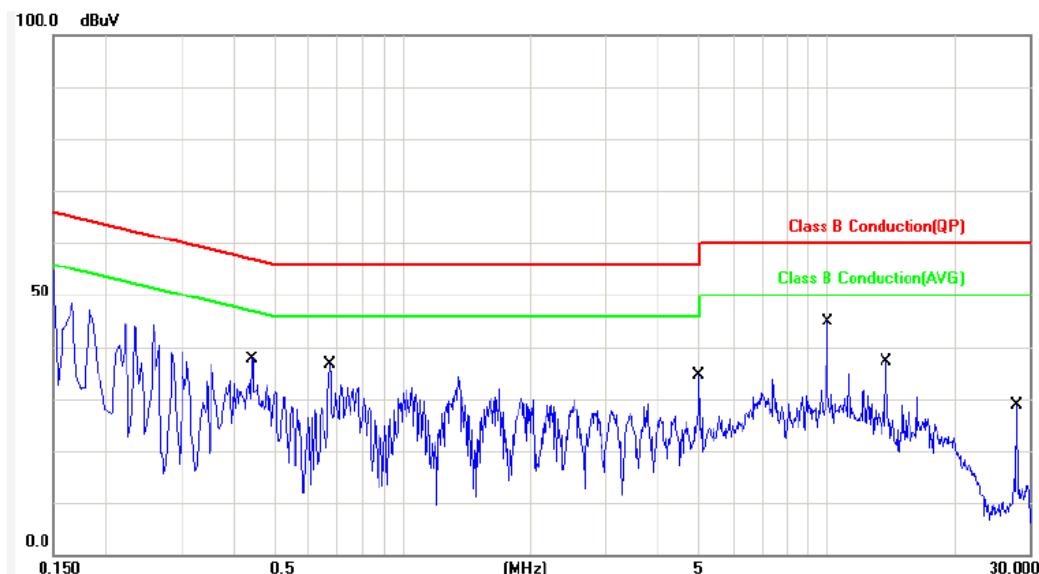
No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1620	0.12	46.33	46.45	65.36	-18.91	QP	P
2	0.1620	0.12	36.25	36.37	55.36	-18.99	Avg	P
3	0.1900	0.12	46.46	46.58	64.03	-17.45	QP	P
4	0.1900	0.12	36.85	36.97	54.03	-17.06	Avg	P
5	0.6740	0.15	34.94	35.09	56.00	-20.91	QP	P
6	0.6740	0.15	33.54	33.69	46.00	-12.31	Avg	P
7	7.4820	0.48	30.34	30.82	60.00	-29.18	QP	P
8	7.4820	0.48	15.70	16.18	50.00	-33.82	Avg	P
9	9.9140	0.58	18.11	18.69	60.00	-41.31	QP	P
10	9.9140	0.58	9.81	10.39	50.00	-39.61	Avg	P
11	13.7140	0.74	28.41	29.15	60.00	-30.85	QP	P
12	13.7140	0.74	14.28	15.02	50.00	-34.98	Avg	P

Note: Level = Reading + Factor

Margin = Level - Limit



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11g, CH1	Temperature	: 26 °C
Test Date	: Jul. 05, 2012	Humidity	: 60 %



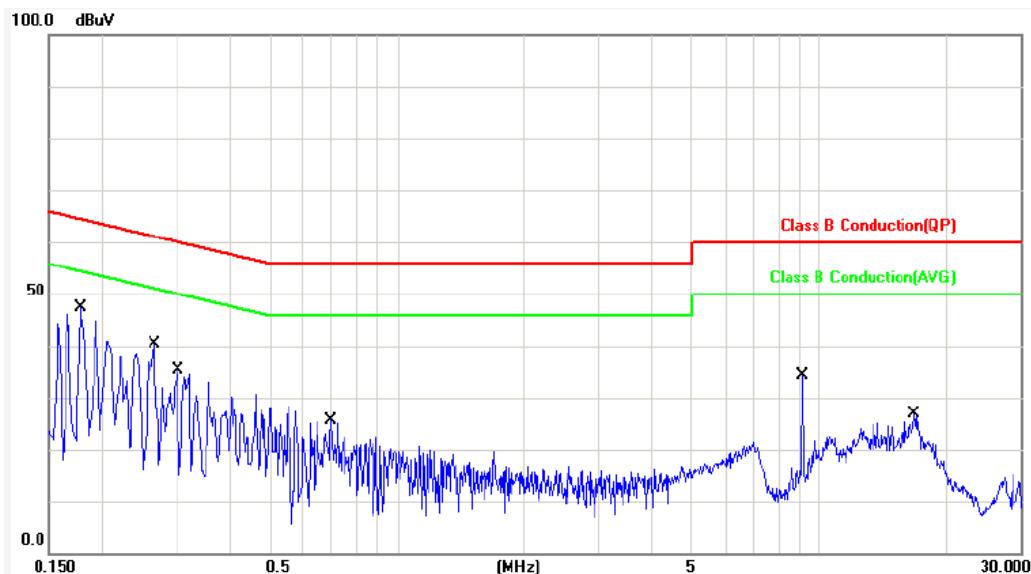
No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4420	0.13	32.43	32.56	57.02	-24.46	QP	P
2	0.4420	0.13	22.35	22.48	47.02	-24.54	AVG	P
3	0.6740	0.15	36.25	36.40	56.00	-19.60	QP	P
4	0.6740	0.15	33.48	33.63	46.00	-12.37	AVG	P
5	5.0020	0.39	28.58	28.97	60.00	-31.03	QP	P
6	5.0020	0.39	23.19	23.58	50.00	-26.42	AVG	P
7	10.0020	0.58	40.22	40.80	60.00	-19.20	QP	P
8	10.0020	0.58	28.74	29.32	50.00	-20.68	AVG	P
9	13.7540	0.74	22.48	23.22	60.00	-36.78	QP	P
10	13.7540	0.74	19.19	19.93	50.00	-30.07	AVG	P
11	27.9580	1.28	9.40	10.68	60.00	-49.32	QP	P
12	27.9580	1.28	4.39	5.67	50.00	-44.33	AVG	P

Note: Level = Reading + Factor

Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: LINE
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 26 °C
Test Date	: Jul. 05, 2012	Humidity	: 60 %



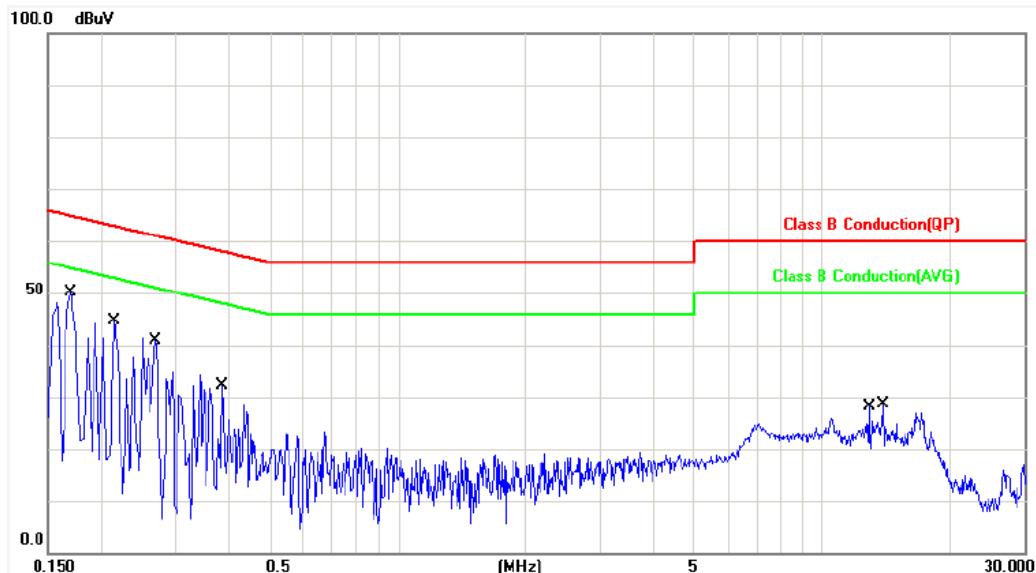
No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1780	0.12	40.78	40.90	64.57	-23.67	QP	P
2	0.1780	0.12	23.65	23.77	54.57	-30.80	AVG	P
3	0.2660	0.12	42.48	42.60	61.24	-18.64	QP	P
4	0.2660	0.12	36.40	36.52	51.24	-14.72	AVG	P
5	0.3020	0.12	28.37	28.49	60.19	-31.70	QP	P
6	0.3020	0.12	15.41	15.53	50.19	-34.66	AVG	P
7	0.6980	0.16	26.53	26.69	56.00	-29.31	QP	P
8	0.6980	0.16	20.41	20.57	46.00	-25.43	AVG	P
9	9.1220	0.55	15.55	16.10	60.00	-43.90	QP	P
10	9.1220	0.55	10.62	11.17	50.00	-38.83	AVG	P
11	16.7860	0.86	21.93	22.79	60.00	-37.21	QP	P
12	16.7860	0.86	15.84	16.70	50.00	-33.30	AVG	P

Note: Level = Reading + Factor

Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 26 °C
Test Date	: Jul. 05, 2012	Humidity	: 60 %



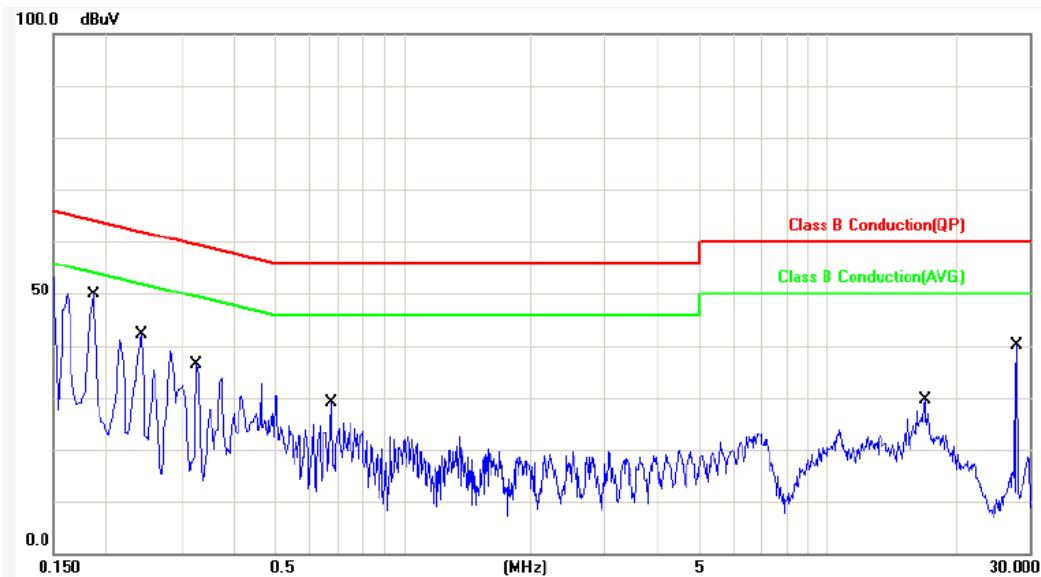
No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1700	0.12	48.64	48.76	64.96	-16.20	QP	P
2	0.1700	0.12	32.52	32.64	54.96	-22.32	AVG	P
3	0.2140	0.12	40.42	40.54	63.04	-22.50	QP	P
4	0.2140	0.12	28.36	28.48	53.04	-24.56	AVG	P
5	0.2700	0.12	35.51	35.63	61.12	-25.49	QP	P
6	0.2700	0.12	22.42	22.54	51.12	-28.58	AVG	P
7	0.3860	0.13	26.19	26.32	58.15	-31.83	QP	P
8	0.3860	0.13	19.47	19.60	48.15	-28.55	AVG	P
9	12.8940	0.70	19.58	20.28	60.00	-39.72	QP	P
10	12.8940	0.70	14.87	15.57	50.00	-34.43	AVG	P
11	13.9580	0.74	19.69	20.43	60.00	-39.57	QP	P
12	13.9580	0.74	14.31	15.05	50.00	-34.95	AVG	P

Note: Level = Reading + Factor

Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: LINE
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 26 °C
Test Date	: Jul. 05, 2012	Humidity	: 60 %



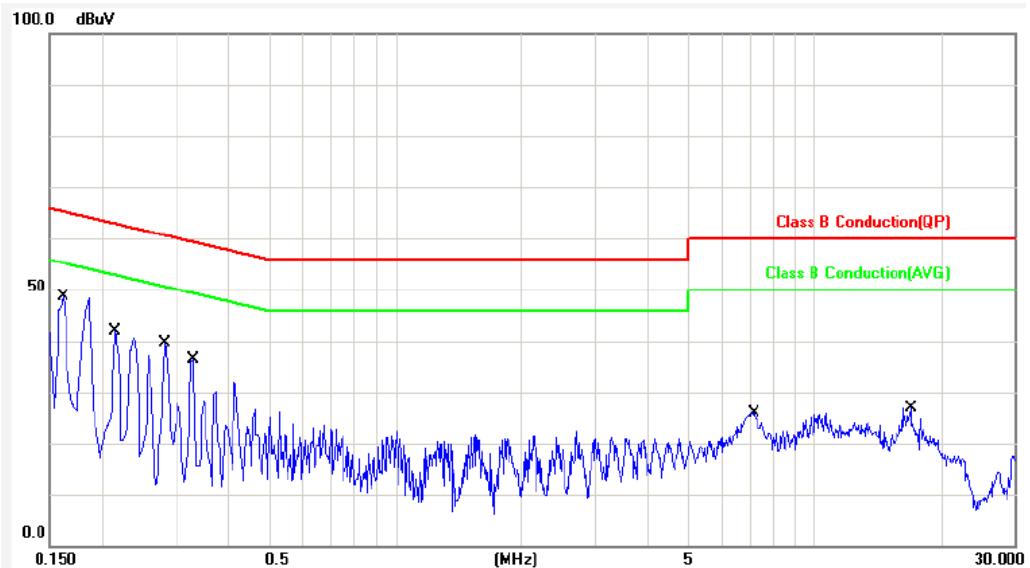
No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1860	0.12	45.49	45.61	64.21	-18.60	QP	P
2	0.1860	0.12	33.43	33.55	54.21	-20.66	AVG	P
3	0.2420	0.12	36.28	36.40	62.02	-25.62	QP	P
4	0.2420	0.12	22.37	22.49	52.02	-29.53	AVG	P
5	0.3260	0.12	32.46	32.58	59.55	-26.97	QP	P
6	0.3260	0.12	19.42	19.54	49.55	-30.01	AVG	P
7	0.6780	0.15	26.89	27.04	56.00	-28.96	QP	P
8	0.6780	0.15	25.41	25.56	46.00	-20.44	AVG	P
9	16.9740	0.87	22.40	23.27	60.00	-36.73	QP	P
10	16.9740	0.87	17.63	18.50	50.00	-31.50	AVG	P
11	27.9580	1.28	18.45	19.73	60.00	-40.27	QP	P
12	27.9580	1.28	14.59	15.87	50.00	-34.13	AVG	P

Note: Level = Reading + Factor

Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 26 °C
Test Date	: Jul. 05, 2012	Humidity	: 60 %



No.	Frequency (MHz)	Factor (dBuV)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1620	0.12	48.35	48.47	65.36	-16.89	QP	P
2	0.1620	0.12	35.66	35.78	55.36	-19.58	AVG	P
3	0.2140	0.12	40.43	40.55	63.04	-22.49	QP	P
4	0.2140	0.12	25.58	25.70	53.04	-27.34	AVG	P
5	0.2819	0.12	36.40	36.52	60.76	-24.24	QP	P
6	0.2819	0.12	28.34	28.46	50.76	-22.30	AVG	P
7	0.3300	0.12	29.46	29.58	59.45	-29.87	QP	P
8	0.3300	0.12	18.58	18.70	49.45	-30.75	AVG	P
9	7.2100	0.47	24.29	24.76	60.00	-35.24	QP	P
10	7.2100	0.47	22.24	22.71	50.00	-27.29	AVG	P
11	16.9740	0.87	20.36	21.23	60.00	-38.77	QP	P
12	16.9740	0.87	15.38	16.25	50.00	-33.75	AVG	P

Note: Level = Reading + Factor

Margin = Level – Limit



## 5. Test of Radiated Emission

### 5.1 Test Limit

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
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

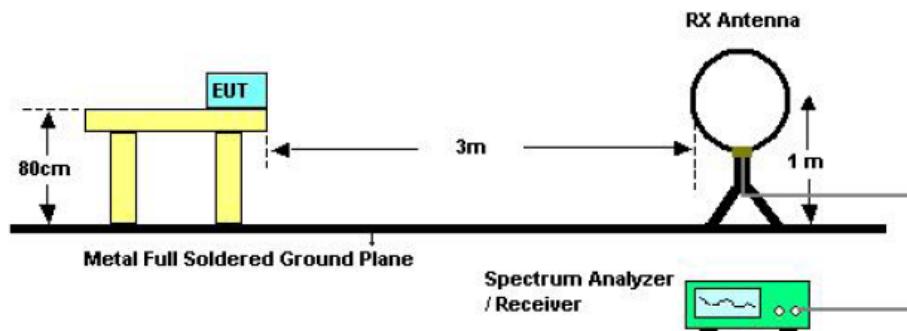
### 5.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. 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.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

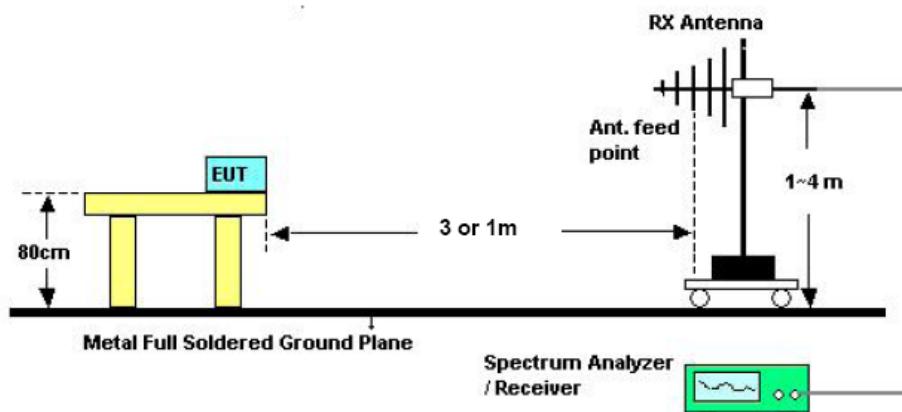


### 5.3 Typical Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

Distance extrapolation factor =  $20 \log (\text{specific distance [3m]} / \text{test distance [1m]})$  (dB);  
Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

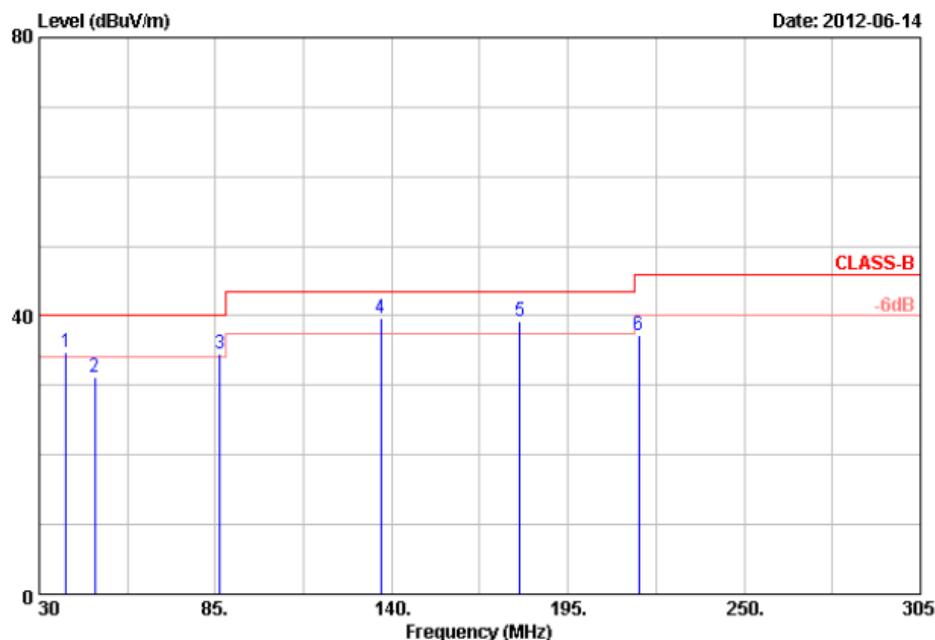
### 5.4 Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI	100821	2012/01/31	2013/01/30
Amplifier	QuieTek	AP/0100A	CHM0906075	2012/01/13	2013/01/12
Signal Generator	HP	8648B	3629U00612	2012/01/11	2013/01/10
Bilog Antenna	Schwarzbeck	VULB 9168	275	2012/03/23	2013/03/22
Spectrum Analyzer	R&S	FSP40	100047	2012/03/01	2013/02/28
Horn Antenna	EMCO	3115	31589	2012/03/01	2013/02/28
Preamplifier	Agilent	8449B	3008A01954	2012/02/29	2013/02/28
Loop Antenna	EMCO	6507	40855	2012/02/29	2013/02/28



## 5.5 Test Result and Data

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 1	:	802.11g, CH1	Temperature	:	26 °C
Memo	:		Humidity	:	61 %



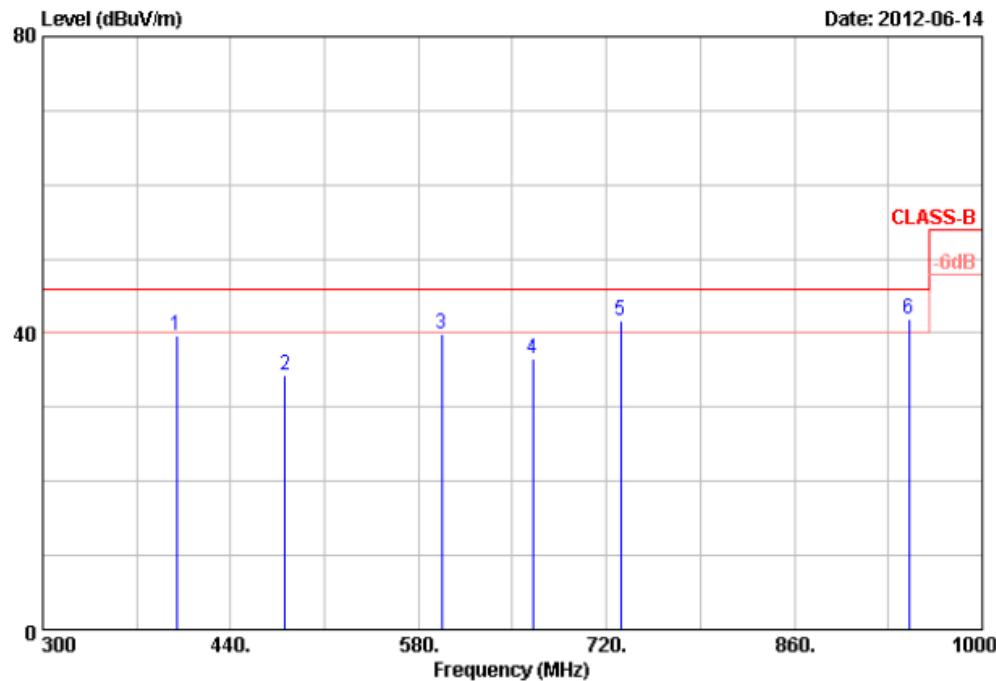
Item	Freq	Read			Limit	Margin	Remark	Ant Pos	Tab Pos
		Value	Factor	Result					
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	38.25	36.40	-1.73	34.67	40.00	-5.33	Peak	100	360
2	47.33	34.96	-3.78	31.18	40.00	-8.82	Peak	100	360
3	86.38	42.39	-7.93	34.46	40.00	-5.54	Peak	100	360
4	136.70	46.21	-6.62	39.59	43.50	-3.91	QP	100	360
5	179.88	44.36	-5.06	39.30	43.50	-4.20	Peak	100	360
6	217.00	43.76	-6.50	37.26	46.00	-8.74	Peak	100	360

### Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
6. The data is worse case.



Power :	AC 120V	Pol/Phase :	VERTICAL
Test Mode 1 :	802.11g, CH1	Temperature :	26 °C
Memo :		Humidity :	61 %



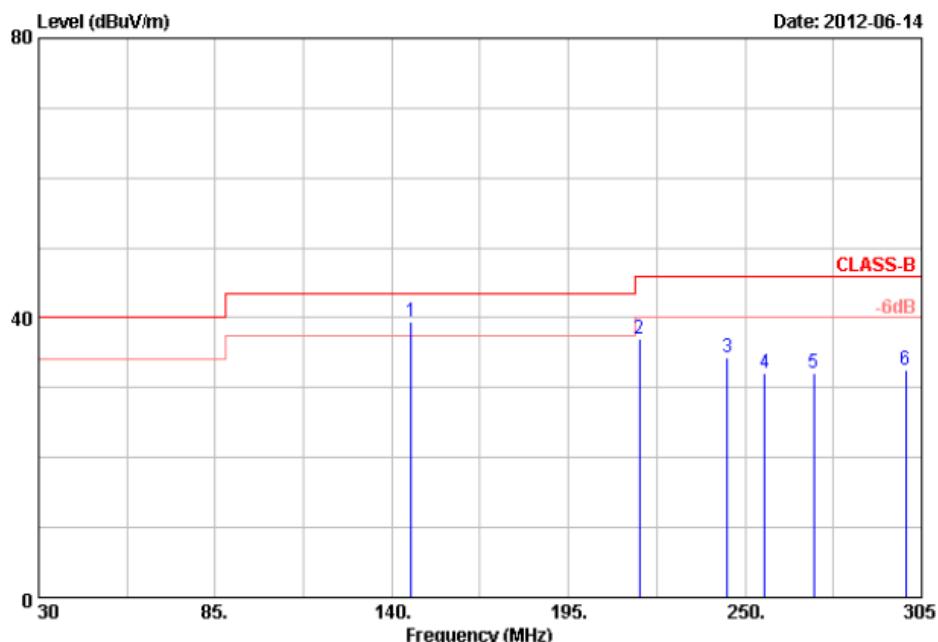
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	399.40	45.25	-5.59	39.66	46.00	-6.34	Peak	100	0
2	480.60	40.84	-6.42	34.42	46.00	-11.58	Peak	100	0
3	597.50	36.61	3.33	39.94	46.00	-6.06	Peak	100	0
4	665.40	37.86	-1.31	36.55	46.00	-9.45	Peak	100	0
5	730.50	34.51	7.18	41.69	46.00	-4.31	Peak	100	0
6	945.40	30.59	11.40	41.99	46.00	-4.01	Peak	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	802.11g, CH1	Temperature	:	26 °C
Memo	:		Humidity	:	61 %



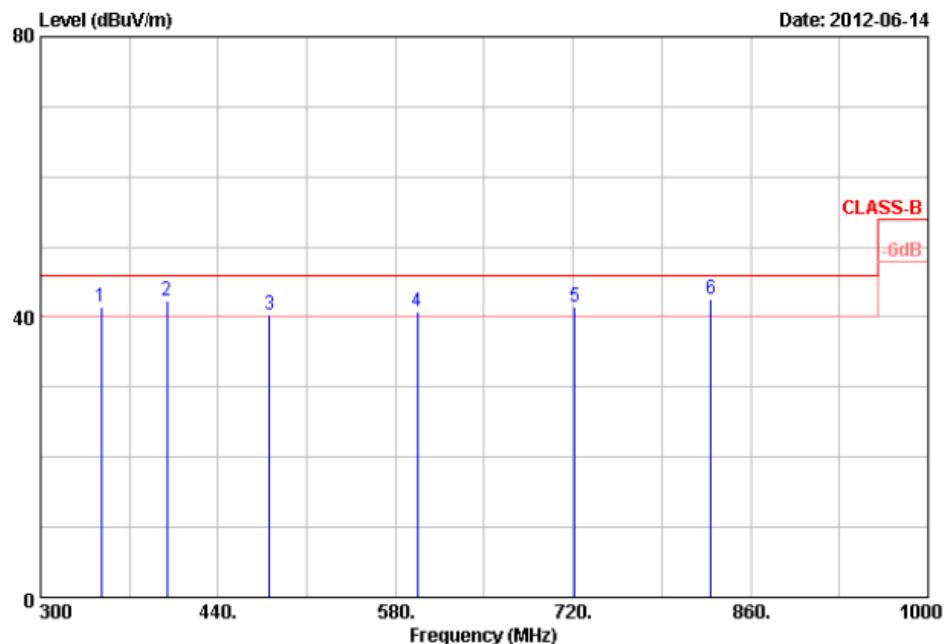
Item	Freq	Read		Result	Limit	Margin	Remark	Ant Pos	Tab Pos
		Value	Factor						
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	Deg
1	146.05	54.03	-14.65	39.38	43.50	-4.12	QP	100	360
2	217.00	53.05	-16.11	36.94	46.00	-9.06	Peak	100	360
3	244.50	47.65	-13.38	34.27	46.00	-11.73	Peak	100	360
4	256.05	45.65	-13.46	32.19	46.00	-13.81	Peak	100	360
5	271.45	46.38	-14.26	32.12	46.00	-13.88	Peak	100	360
6	300.05	44.58	-12.08	32.50	46.00	-13.50	Peak	100	360

### Notes:

1. Result = Read Value + Factor
  2. Factor = Antenna Factor + Cable Loss - Amplifier
  3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
  4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
  5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
  6. The data is worse case.



Power :	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode 1 :	802.11g, CH1	Temperature :	26 °C
Memo :		Humidity :	61 %



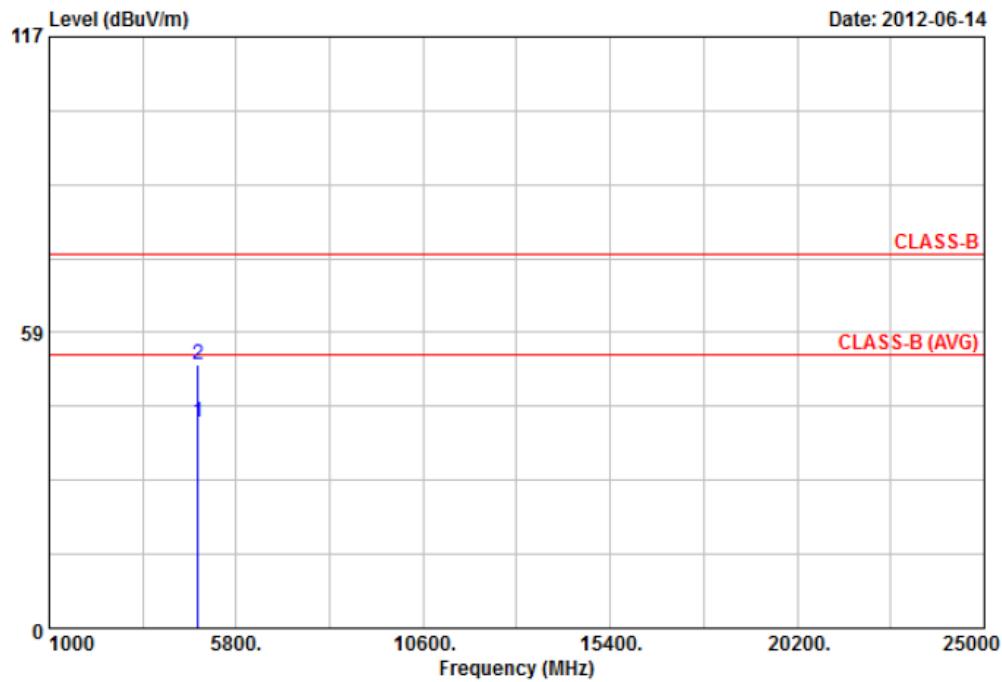
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	347.60	50.77	-9.23	41.54	46.00	-4.46	Peak	100	0
2	399.40	51.68	-9.28	42.40	46.00	-3.60	Peak	100	0
3	480.60	44.51	-4.23	40.28	46.00	-5.72	QP	100	0
4	597.50	38.02	2.84	40.86	46.00	-5.14	Peak	100	0
5	721.40	37.51	3.99	41.50	46.00	-4.50	Peak	100	0
6	828.50	34.16	8.34	42.50	46.00	-3.50	QP	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11b, CH1	Temperature	: 26 °C
Memo	:	Humidity	: 61 %



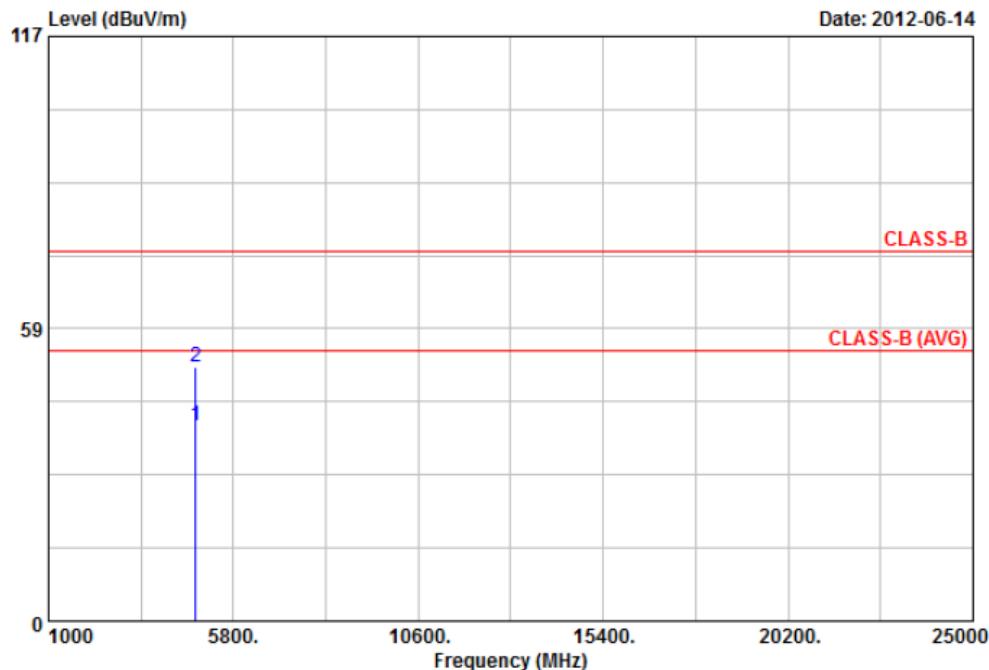
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
		MHz	dBuV	dB/m	dBuV/m	dB		cm	Deg
1	4824.00	35.01	5.61	40.62	54.00	-13.38	Average	100	0
2	4824.00	46.48	5.61	52.09	74.00	-21.91	Peak	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.(The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11b, CH1	Temperature	: 26 °C
Memo	:	Humidity	: 61 %



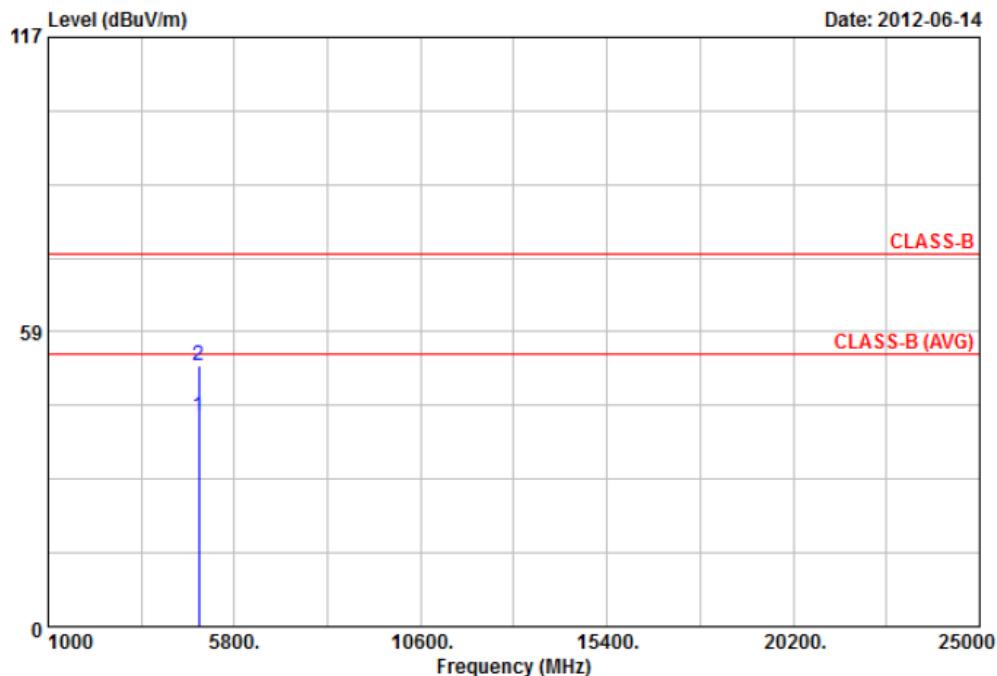
Item	Freq	Read			Limit	Margin	Remark	Ant	Tab
		Value	Factor	Result				Pos	Pos
		MHz	dBuV	dB/m	dBuV/m	dB		cm	Deg
1	4824.00	35.07	3.95	39.02	54.00	-14.98	Average	100	247
2	4824.00	46.78	3.95	50.73	74.00	-23.27	Peak	100	247

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured. (The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11b, CH6	Temperature	: 26 °C
Memo	:	Humidity	: 61 %



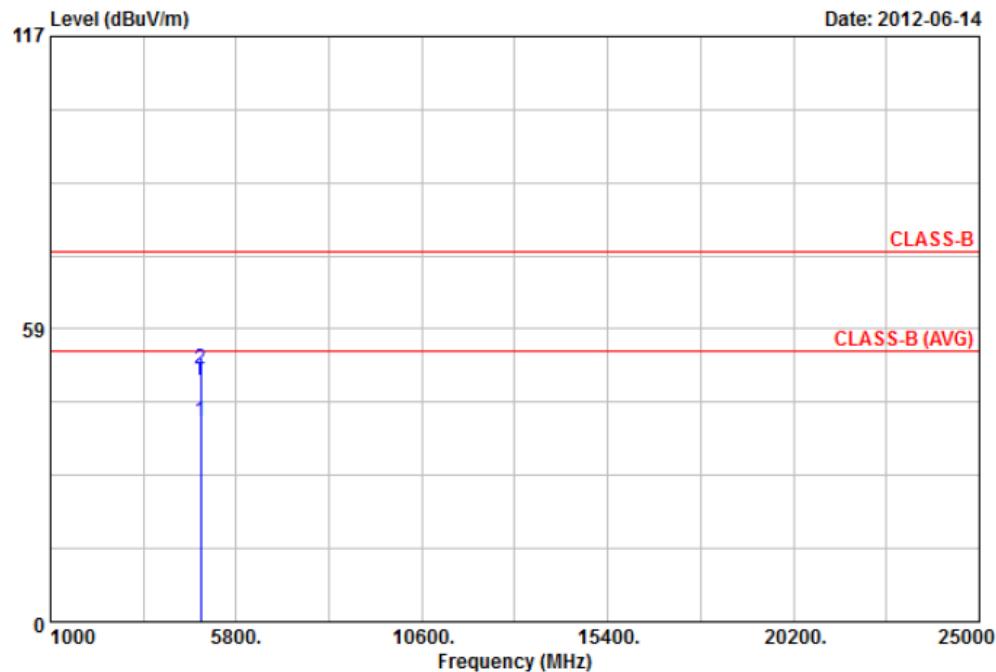
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	35.24	6.59	41.83	54.00	-12.17	Average	100	208
2	4874.00	45.08	6.59	51.67	74.00	-22.33	Peak	100	208

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured. (The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11b, CH6	Temperature	: 26 °C
Memo	:	Humidity	: 61 %



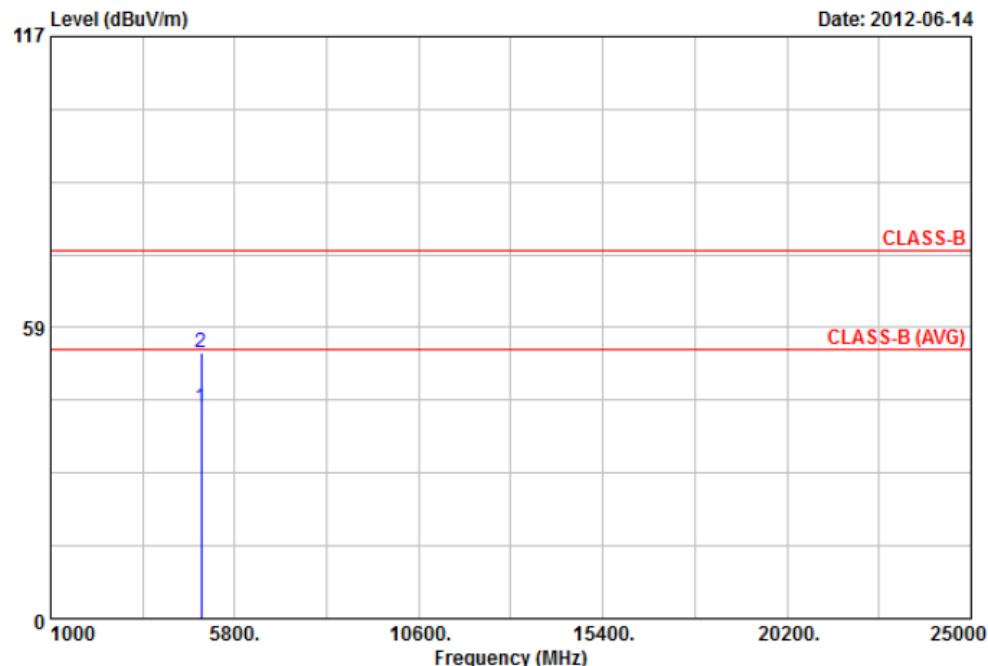
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	35.24	4.73	39.97	54.00	-14.03	Average	100	230
2	4874.00	45.67	4.73	50.40	74.00	-23.60	Peak	100	230

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.(The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11b, CH11	Temperature	: 26 °C
Memo		Humidity	: 61 %



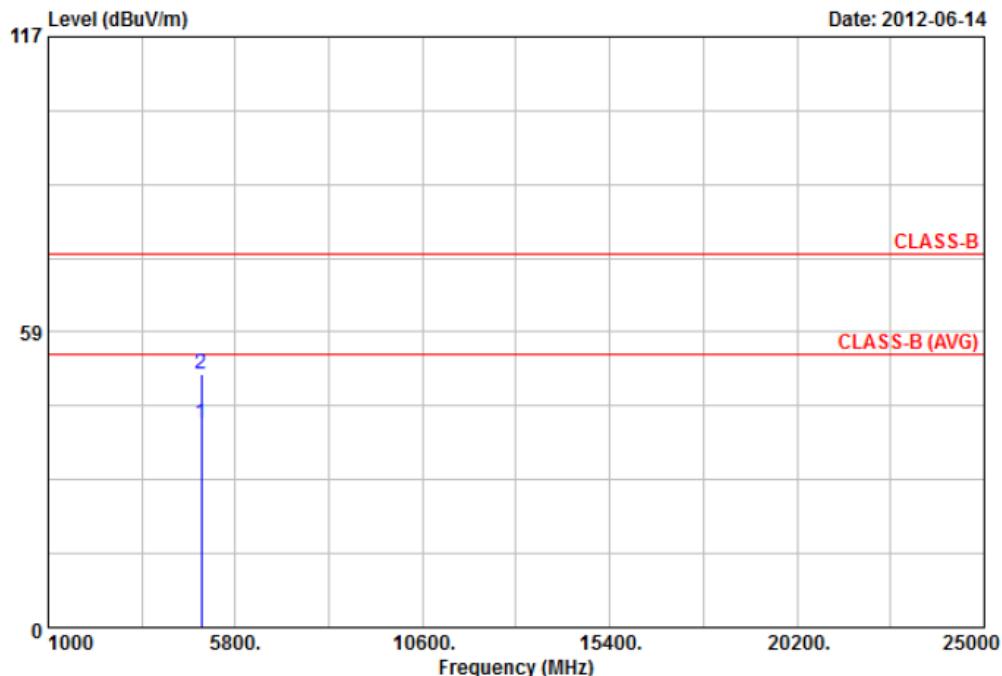
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	35.22	7.16	42.38	54.00	-11.62	Average	100	262
2	4924.00	46.17	7.16	53.33	74.00	-20.67	Peak	100	262

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.(The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11b, CH11	Temperature	: 26 °C
Memo	:	Humidity	: 61 %



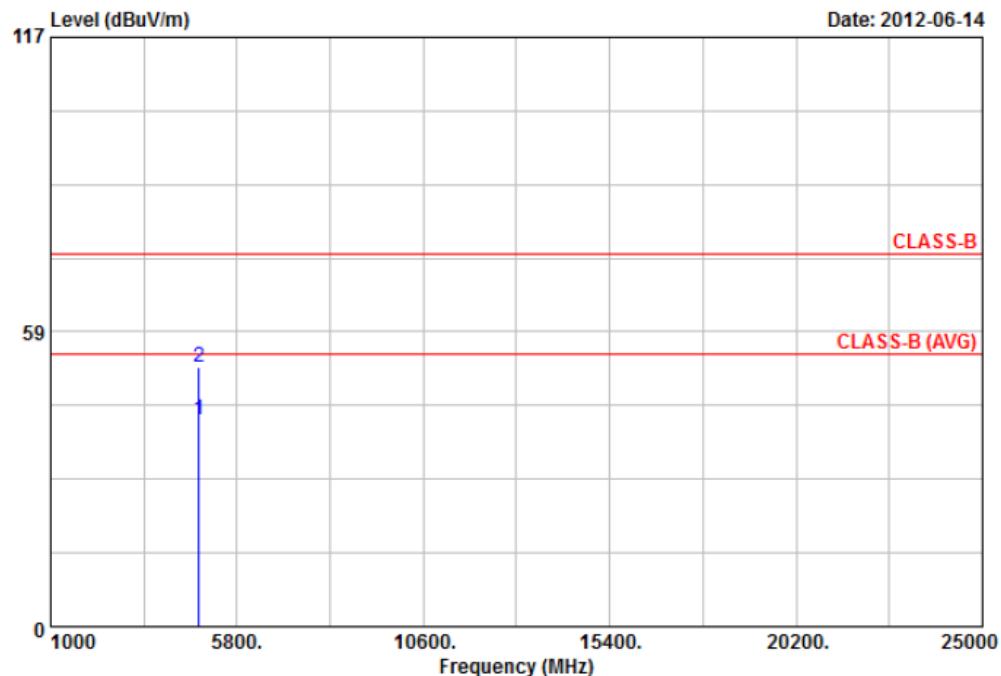
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	35.26	5.15	40.41	54.00	-13.59	Average	100	226
2	4924.00	44.96	5.15	50.11	74.00	-23.89	Peak	100	226

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.(The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH1	Temperature	: 26 °C
Memo		Humidity	: 61 %



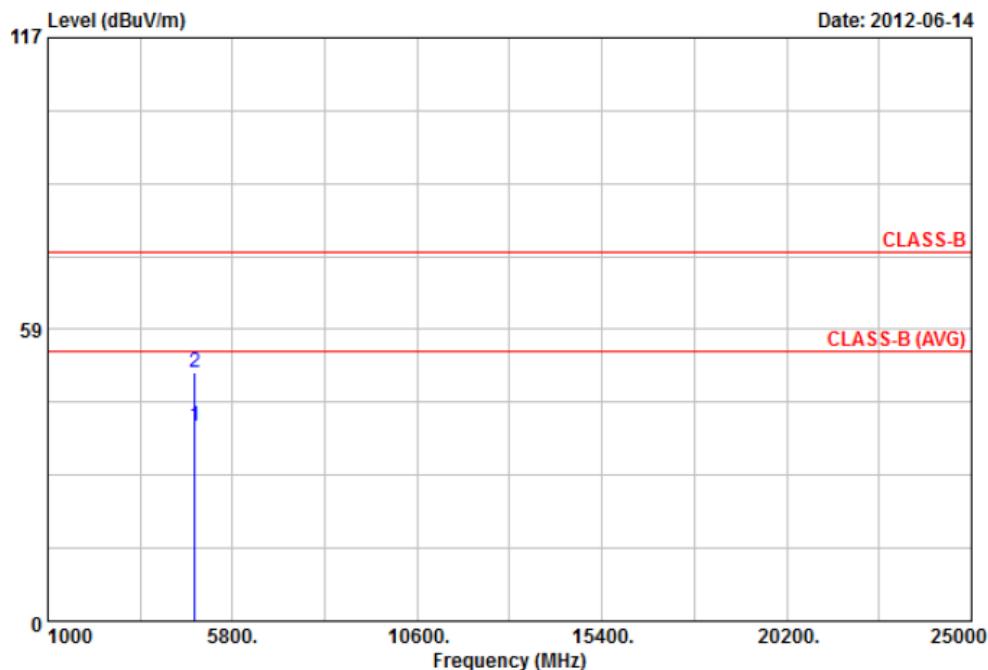
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	Deg
1	4824.00	35.30	5.61	40.91	54.00	-13.09	Average	100	198
2	4824.00	45.95	5.61	51.56	74.00	-22.44	Peak	100	198

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.(The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH1	Temperature	: 26 °C
Memo	:	Humidity	: 61 %



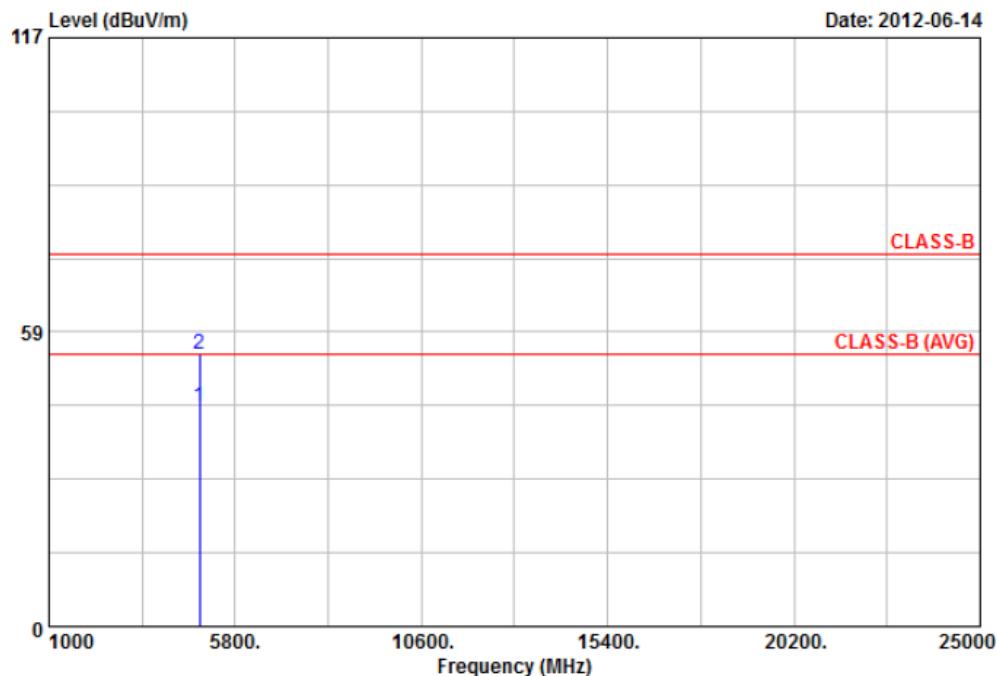
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Freq	Value					Pos	Pos
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	Deg
1	4824.00	35.30		3.95	39.25	54.00	-14.75	Average	100 240
2	4824.00	45.80		3.95	49.75	74.00	-24.25	Peak	100 240

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.(The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power :	AC 120V	Pol/Phase :	VERTICAL
Test Mode 1 :	802.11g, CH6	Temperature :	26 °C
Memo :		Humidity :	61 %



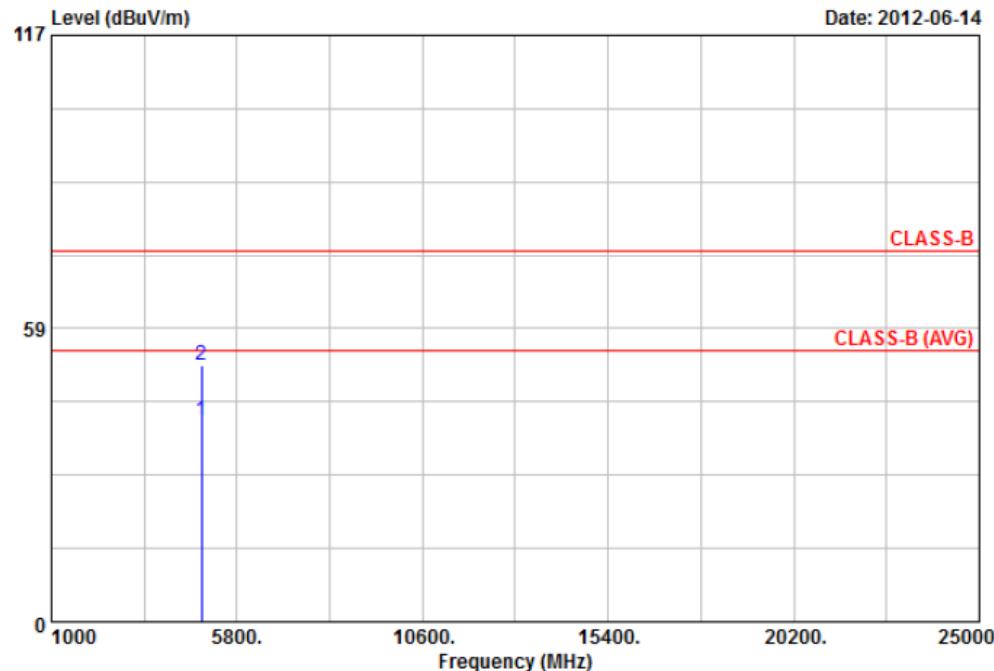
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	Deg
1	4874.00	37.15	6.59	43.74	54.00	-10.26	Average	100	251
2	4874.00	47.46	6.59	54.05	74.00	-19.95	Peak	100	251

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.(The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	802.11g, CH6	Temperature	:	26 °C
Memo	:		Humidity	:	61 %



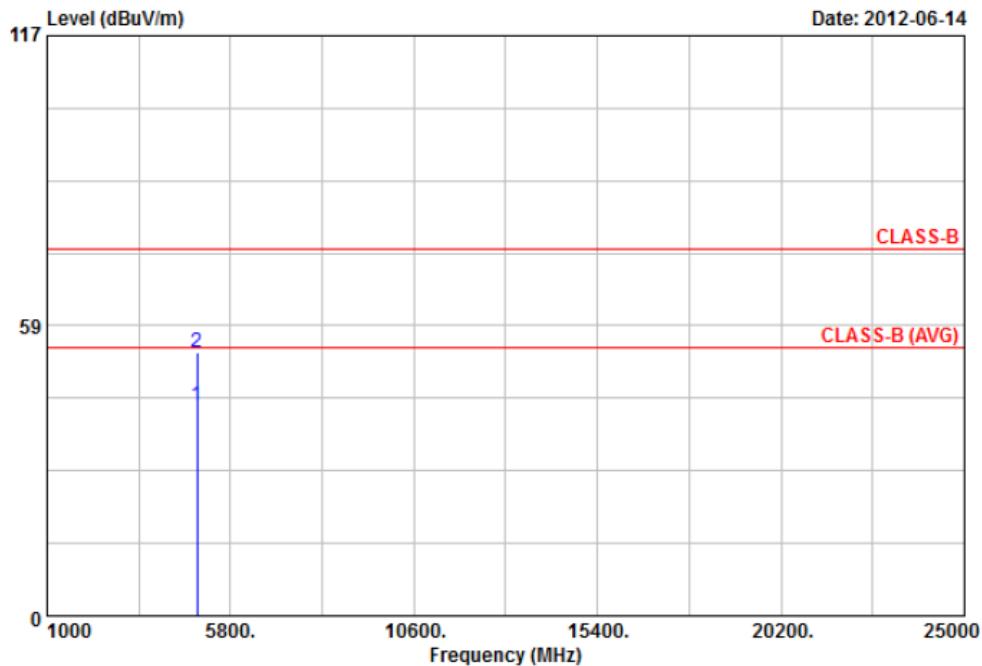
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	35.26	4.73	39.99	54.00	-14.01	Average	100	219
2	4874.00	46.42	4.73	51.15	74.00	-22.85	Peak	100	219

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.(The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH11	Temperature	: 26 °C
Memo	:	Humidity	: 61 %



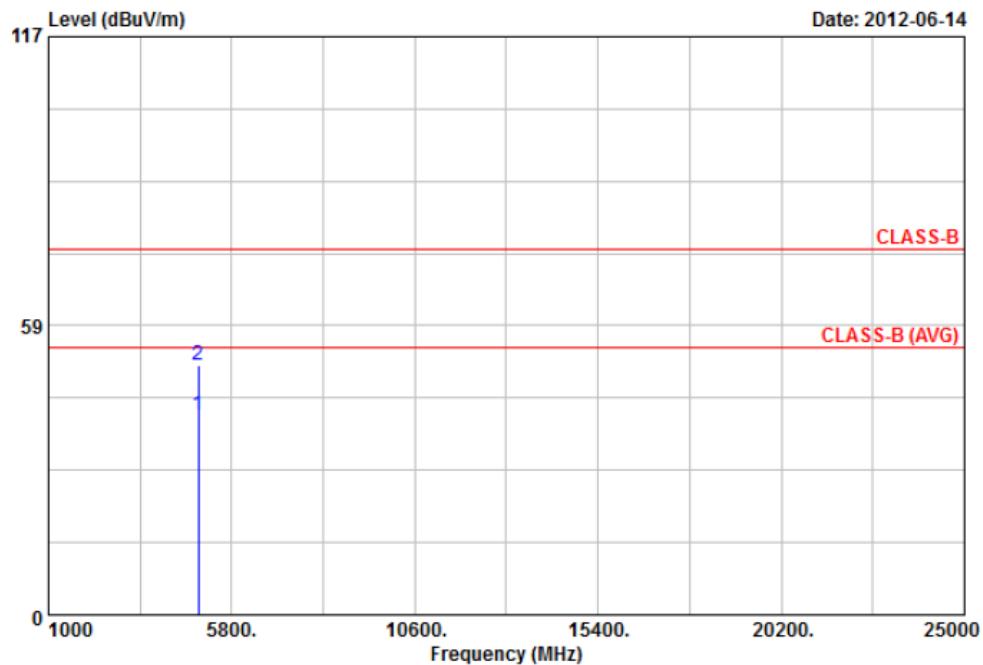
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab	Pos	Pos
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	Deg		
1	4924.00	35.20	7.16	42.36	54.00	-11.64	Average	100	254		
2	4924.00	45.90	7.16	53.06	74.00	-20.94	Peak	100	254		

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured. (The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power :	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode 1 :	802.11g, CH11	Temperature :	26 °C
Memo :		Humidity :	61 %



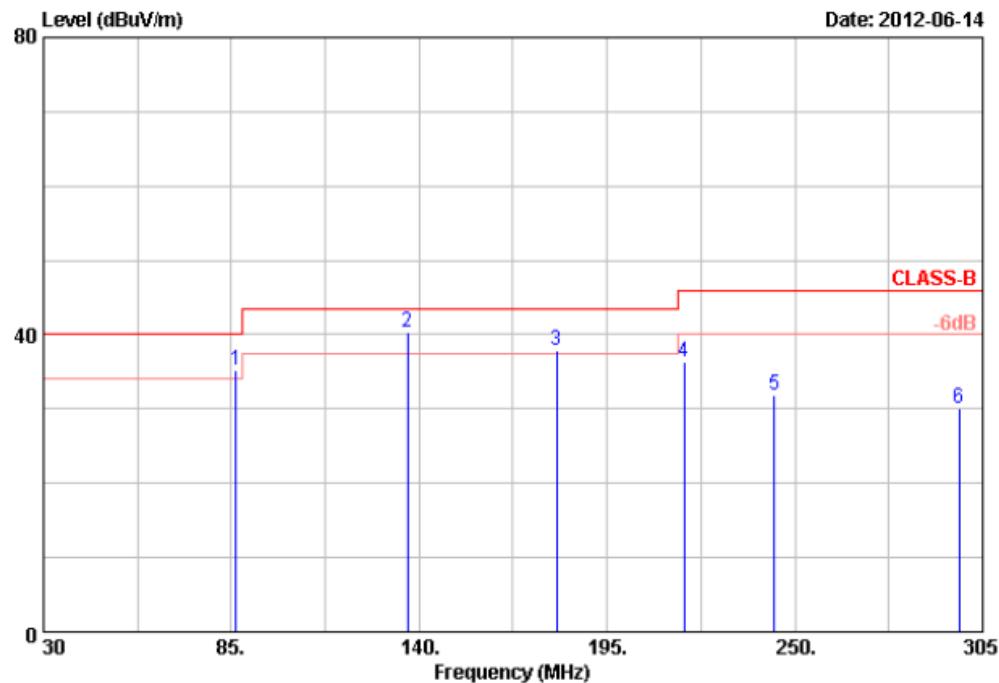
Item	Read			Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value	Factor					Pos	Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	35.21	5.15	40.36	54.00	-13.64	Average	100	228
2	4924.00	45.34	5.15	50.49	74.00	-23.51	Peak	100	228

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.(The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 26 °C
Memo		Humidity	: 61 %



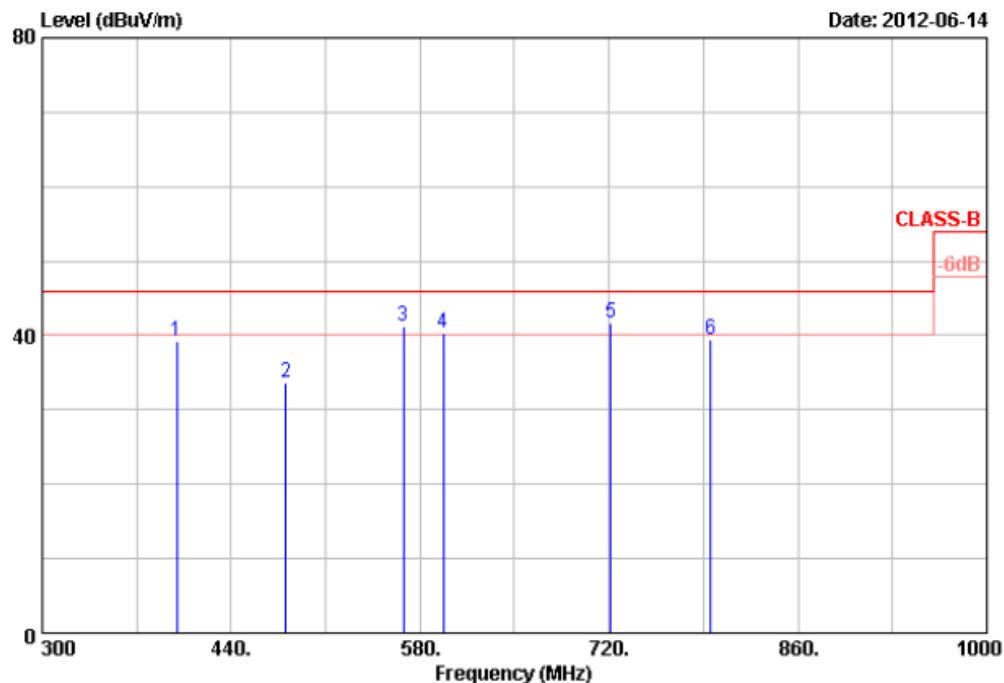
Item	Freq	Read		Result	Limit	Margin	Remark	Ant Pos	Tab Pos
		Value	Factor						
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	86.38	43.24	-7.93	35.31	40.00	-4.69	Peak	100	360
2	136.70	46.92	-6.62	40.30	43.50	-3.20	QP	100	360
3	180.15	42.98	-5.15	37.83	43.50	-5.67	Peak	100	360
4	217.55	42.79	-6.41	36.38	46.00	-9.62	Peak	100	360
5	243.95	42.68	-10.73	31.95	46.00	-14.05	Peak	100	360
6	298.13	38.93	-8.92	30.01	46.00	-15.99	Peak	100	360

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 26 °C
Memo		Humidity	: 61 %



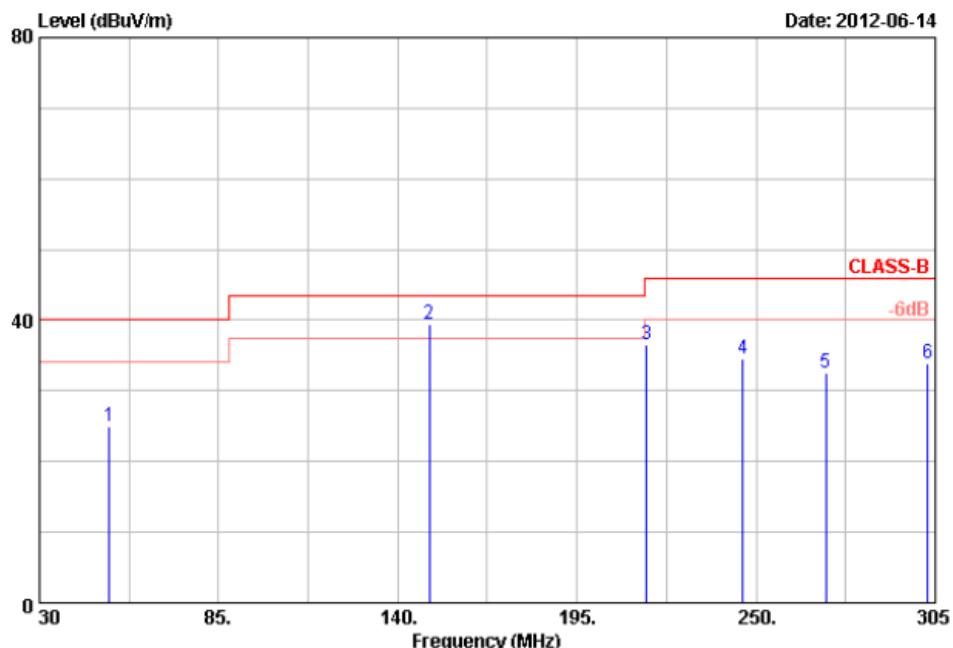
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	399.40	44.89	-5.59	39.30	46.00	-6.70	Peak	100	0
2	480.60	40.05	-6.42	33.63	46.00	-12.37	Peak	100	0
3	567.40	34.00	7.11	41.11	46.00	-4.89	QP	100	0
4	597.50	37.00	3.33	40.33	46.00	-5.67	Peak	100	0
5	721.40	35.40	6.29	41.69	46.00	-4.31	Peak	100	0
6	795.60	33.49	6.06	39.55	46.00	-6.45	Peak	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 26 °C
Memo		Humidity	: 61 %



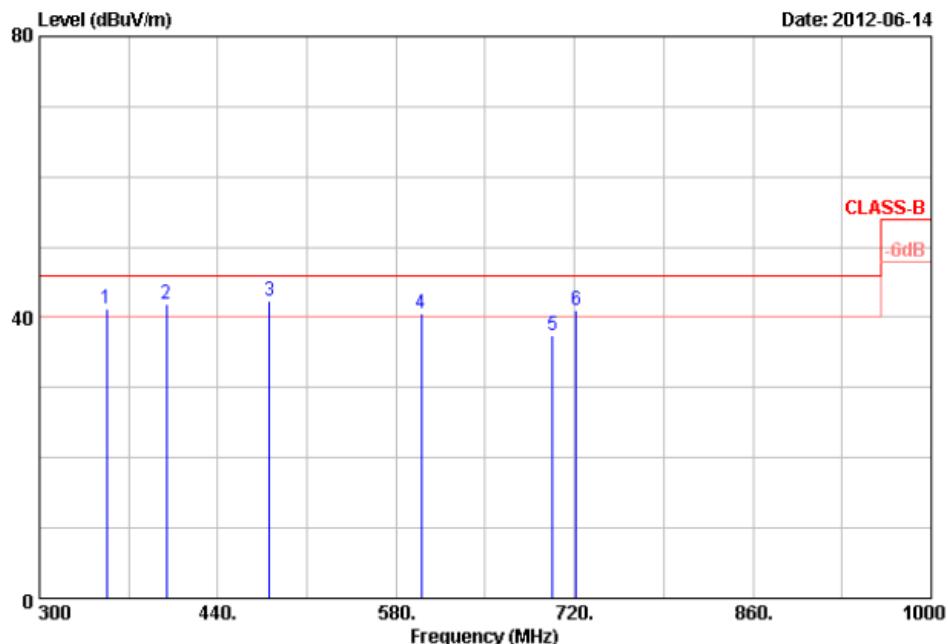
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor						
MHz									
1	51.45	34.77	-9.82	24.95	40.00	-15.05	Peak	100	360
2	149.63	54.23	-14.70	39.53	43.50	-3.97	QP	100	360
3	216.45	52.75	-16.19	36.56	46.00	-9.44	Peak	100	360
4	245.88	47.96	-13.35	34.61	46.00	-11.39	Peak	100	360
5	271.45	46.73	-14.26	32.47	46.00	-13.53	Peak	100	360
6	302.80	46.09	-12.12	33.97	46.00	-12.03	Peak	100	360

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 26 °C
Memo		Humidity	: 61 %



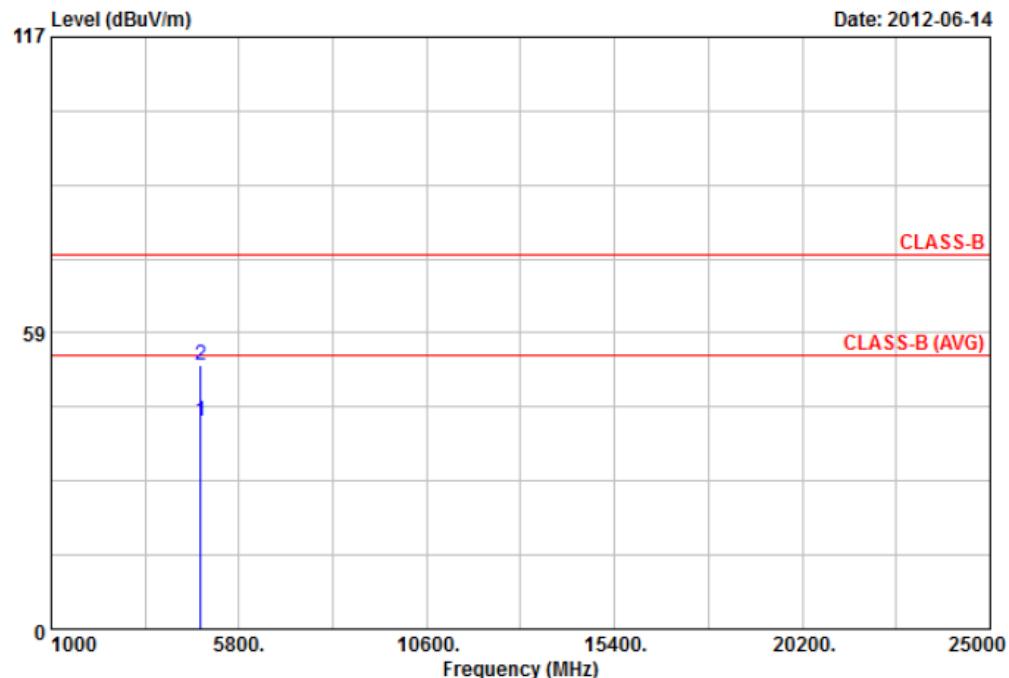
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
-----									
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	352.50	51.43	-10.12	41.31	46.00	-4.69	Peak	100	0
2	399.40	51.14	-9.28	41.86	46.00	-4.14	QP	100	0
3	480.60	46.54	-4.23	42.31	46.00	-3.69	QP	100	0
4	599.60	38.25	2.30	40.55	46.00	-5.45	Peak	100	0
5	702.50	35.19	2.22	37.41	46.00	-8.59	Peak	100	0
6	721.40	37.12	3.99	41.11	46.00	-4.89	Peak	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 26 °C
Memo	:	Humidity	: 61 %



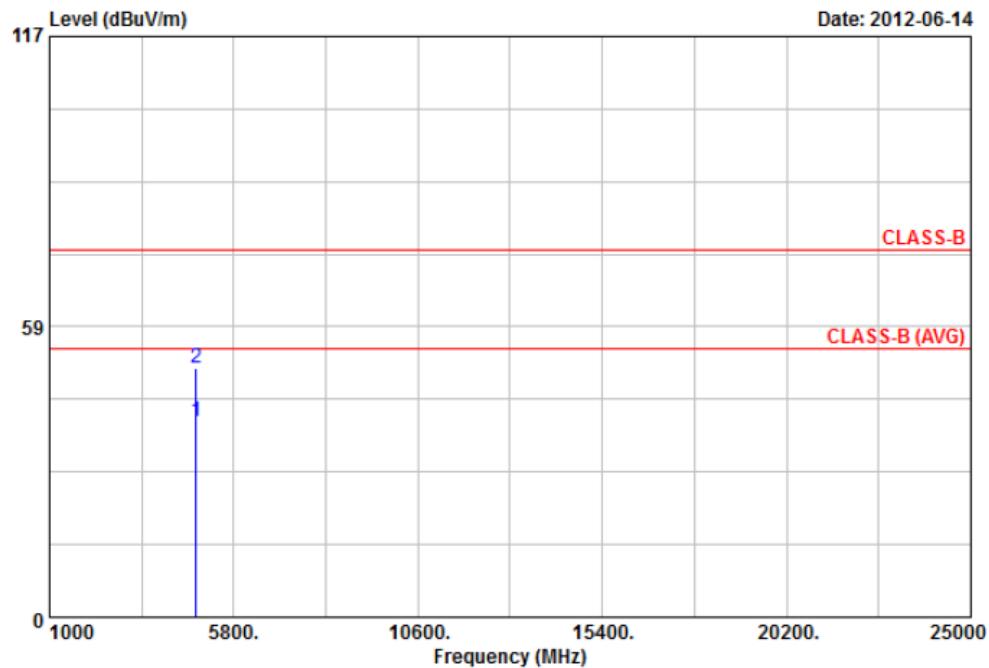
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	35.61	5.61	41.22	54.00	-12.78	Average	100	260
2	4824.00	46.52	5.61	52.13	74.00	-21.87	Peak	100	260

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.(The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 26 °C
Memo	:	Humidity	: 61 %



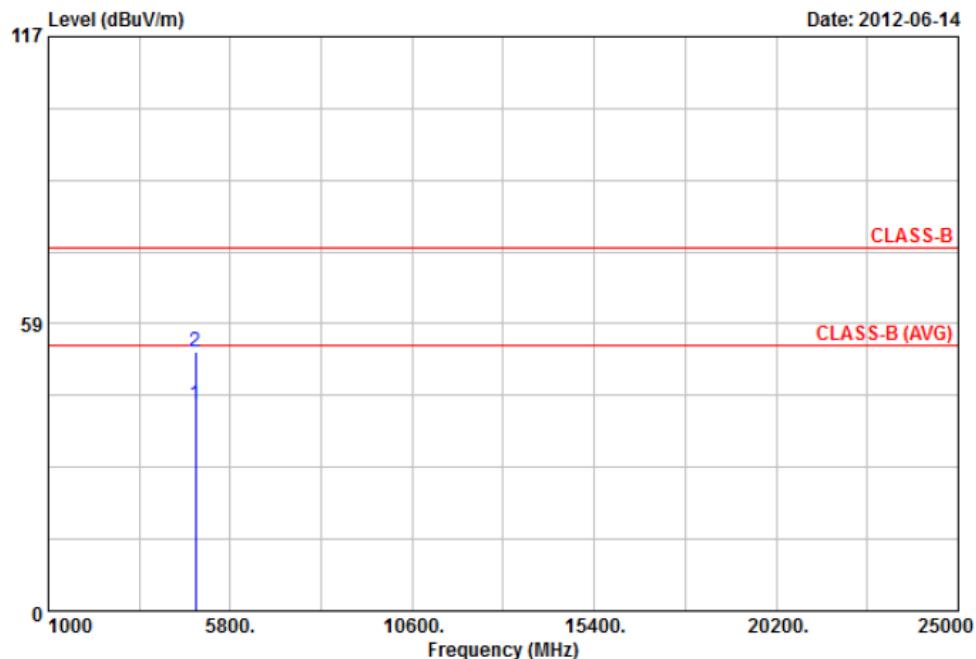
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	35.60	3.95	39.55	54.00	-14.45	Average	100	221
2	4824.00	46.09	3.95	50.04	74.00	-23.96	Peak	100	221

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.(The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: 802.11n HT20, CH6	Temperature	: 26 °C
Memo	:	Humidity	: 61 %



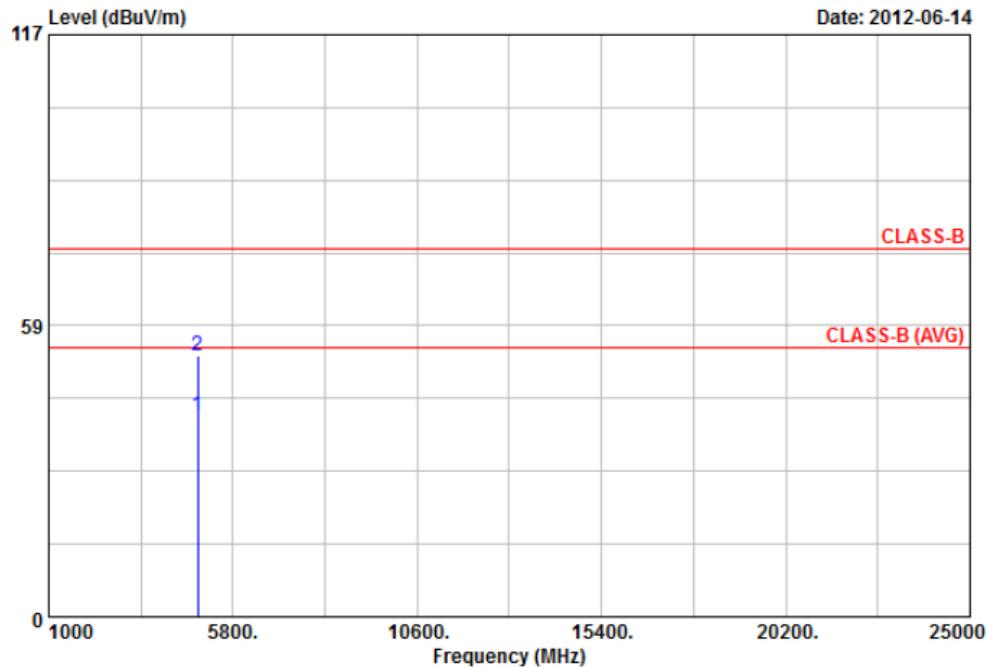
Item	Freq	Read		Factor	Result	Limit	Margin	Remark	Ant	Tab
		Value	Unit						Pos	Pos
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	35.56		6.59	42.15	54.00	-11.85	Average	100	274
2	4874.00	46.06		6.59	52.65	74.00	-21.35	Peak	100	274

### Notes:

1. Result = Read Value + Factor
  2. Factor = Antenna Factor + Cable Loss - Amplifier
  3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
  4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
  5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
  6. The other emissions is too low to be measured.(The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
  7. The data is worse case.



Power :	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode 2 :	802.11n HT20, CH6	Temperature :	26 °C
Memo :		Humidity :	61 %



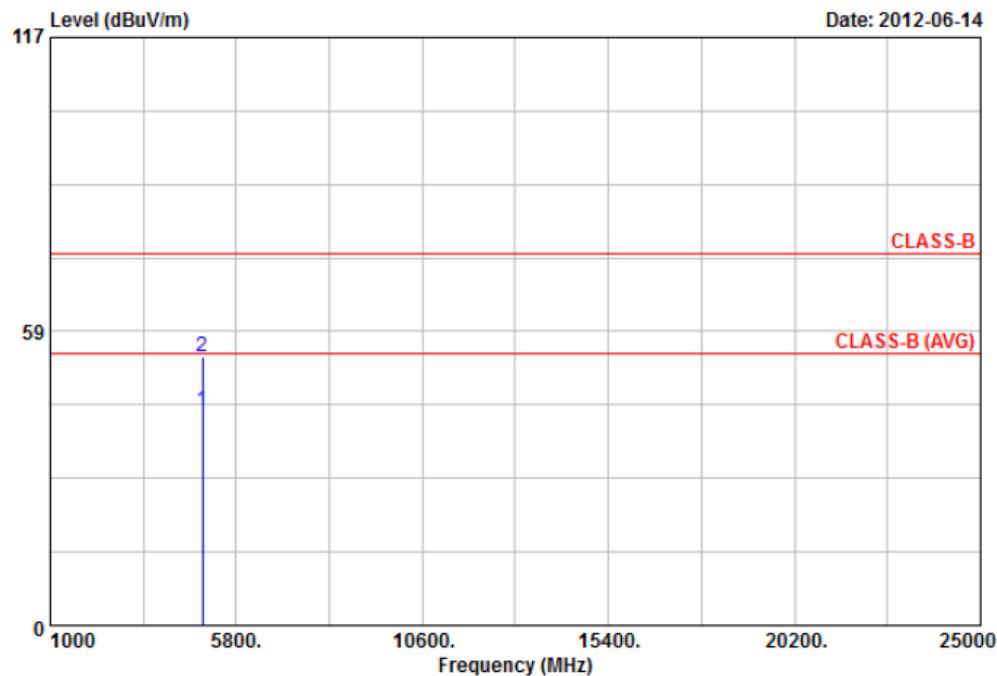
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	35.52	4.73	40.25	54.00	-13.75	Average	100	304
2	4874.00	47.74	4.73	52.47	74.00	-21.53	Peak	100	304

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.(The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 2	: 802.11n HT20, CH11	Temperature	: 26 °C
Memo	:	Humidity	: 61 %



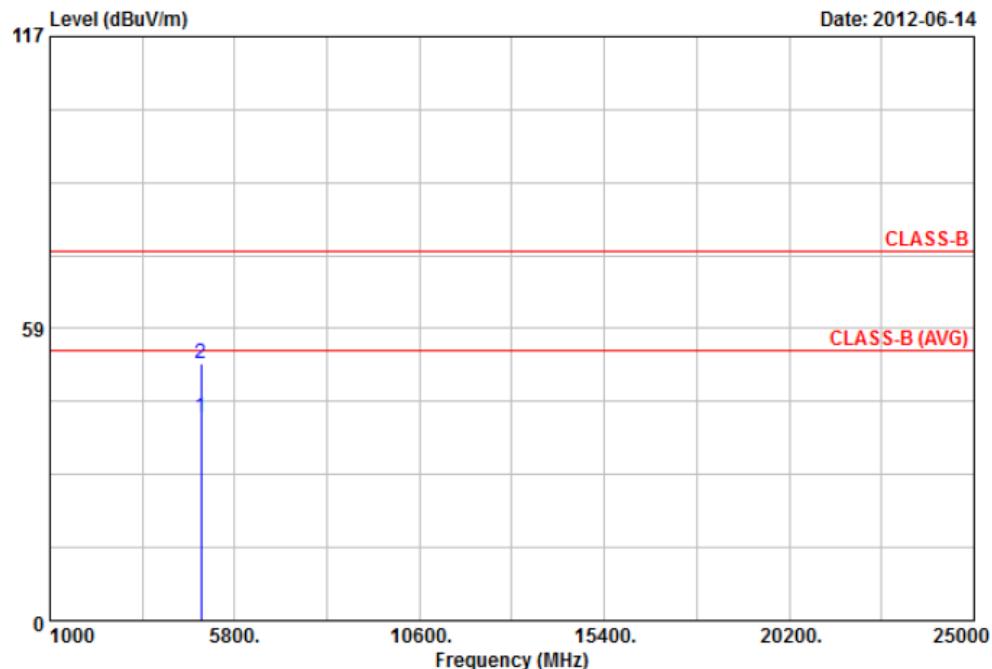
Item	Read		Factor	Result	Limit	Margin	Remark	Ant	Tab
	Freq	Value						Pos	Pos
1	4924.00	35.55	7.16	42.71	54.00	-11.29	Average	100	250
2	4924.00	46.24	7.16	53.40	74.00	-20.60	Peak	100	250

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured. (The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 2	: 802.11n HT20, CH11	Temperature	: 26 °C
Memo	:	Humidity	: 61 %



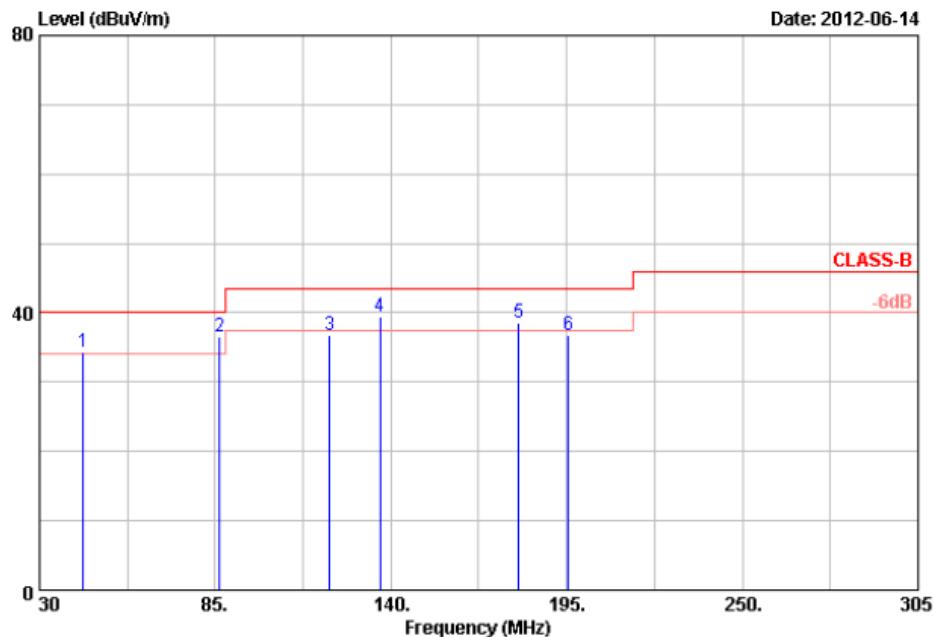
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	35.53	5.15	40.68	54.00	-13.32	Average	100	222
2	4924.00	46.31	5.15	51.46	74.00	-22.54	Peak	100	222

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.(The worst case noise floor measurements value is 47.93 dBuV at 16.10GHz)
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 26 °C
Memo	:	Humidity	: 61 %



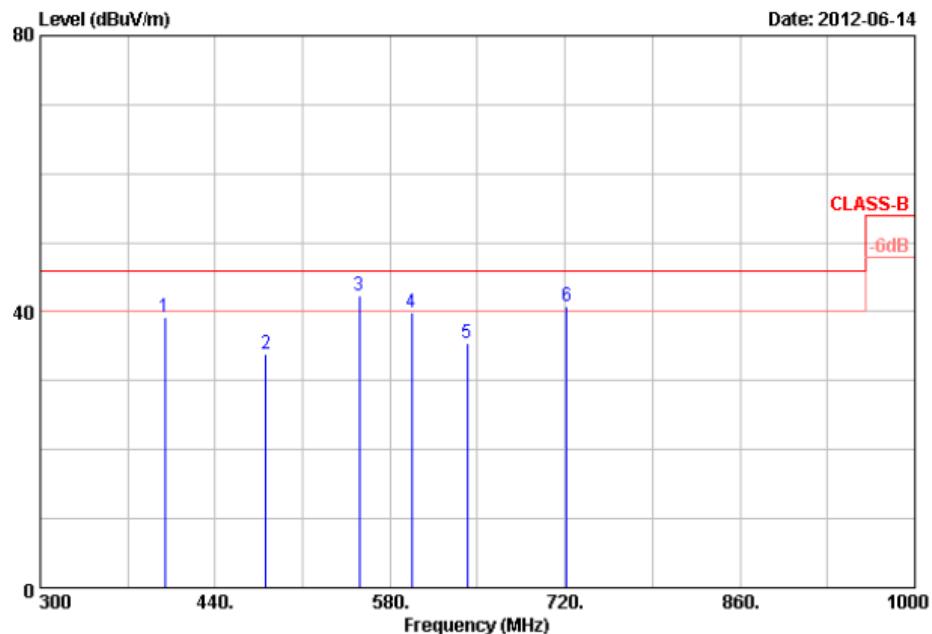
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	43.75	35.46	-1.22	34.24	40.00	-5.76	Peak	100	360
2	86.38	44.51	-7.93	36.58	40.00	-3.42	Peak	100	360
3	120.75	41.57	-4.69	36.88	43.50	-6.62	QP	100	360
4	136.70	45.98	-6.62	39.36	43.50	-4.14	QP	100	360
5	179.88	43.64	-5.06	38.58	43.50	-4.92	Peak	100	360
6	195.55	48.49	-11.67	36.82	43.50	-6.68	Peak	100	360

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 26 °C
Memo	:	Humidity	: 61 %



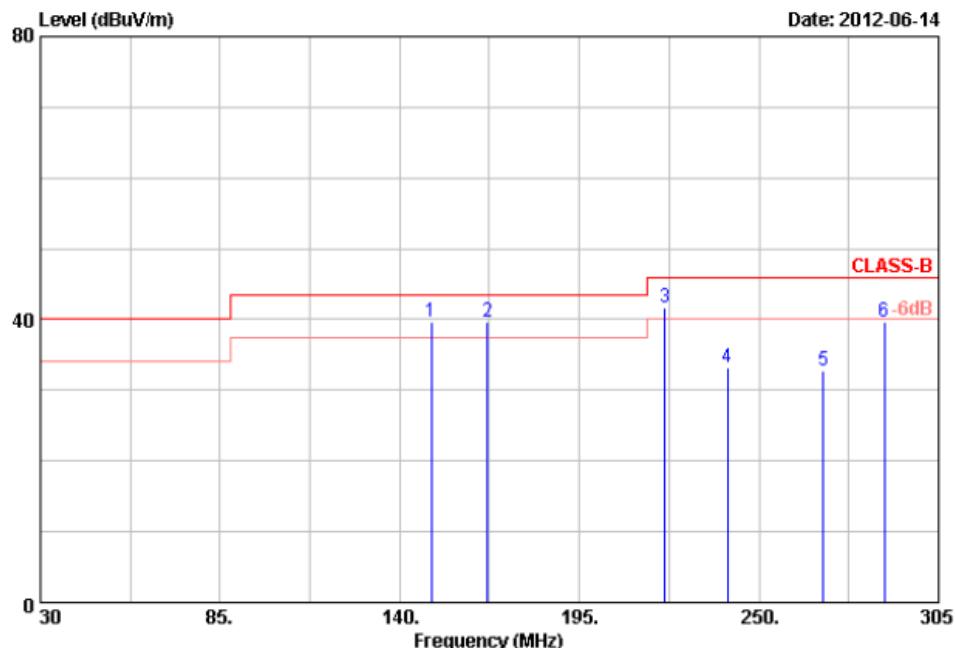
Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
MHz dBuV dB/m dBuV/m dBuV/m dB									
1	399.40	44.89	-5.59	39.30	46.00	-6.70	Peak	100	0
2	480.60	40.34	-6.42	33.92	46.00	-12.08	Peak	100	0
3	555.50	34.69	7.64	42.33	46.00	-3.67	QP	100	0
4	597.50	36.49	3.33	39.82	46.00	-6.18	Peak	100	0
5	641.60	35.64	-0.22	35.42	46.00	-10.58	Peak	100	0
6	721.40	34.42	6.29	40.71	46.00	-5.29	Peak	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300KHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 3	: 802.11n HT40, CH3	Temperature	: 26 °C
Memo		Humidity	: 61 %



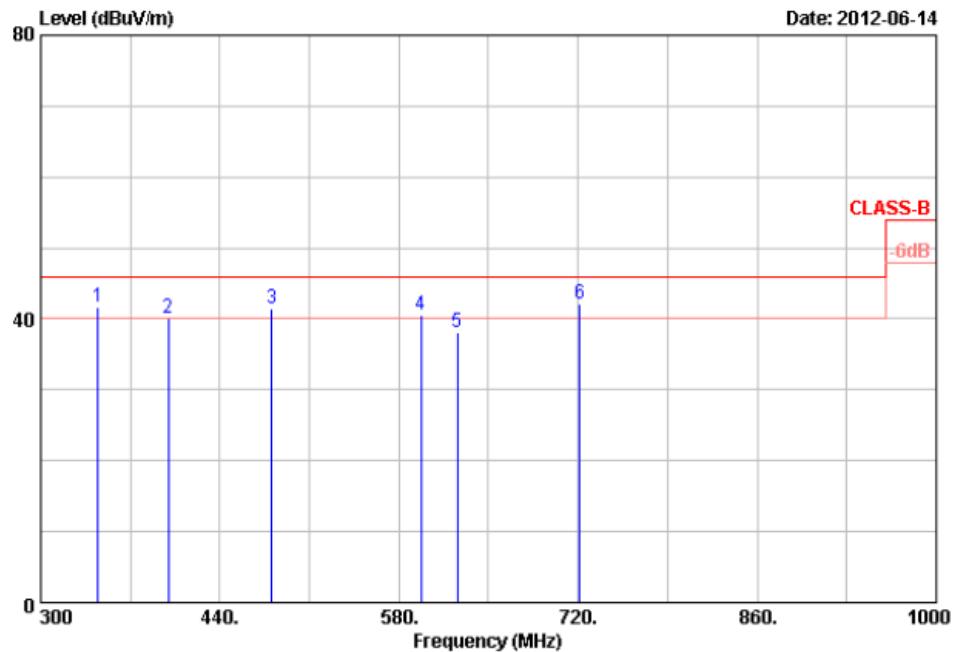
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
-----									
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	149.63	54.36	-14.70	39.66	43.50	-3.84	QP	100	360
2	166.95	53.99	-14.28	39.71	43.50	-3.79	Peak	100	360
3	221.13	57.15	-15.53	41.62	46.00	-4.38	QP	100	360
4	240.38	47.26	-13.99	33.27	46.00	-12.73	Peak	100	360
5	269.80	46.87	-14.10	32.77	46.00	-13.23	Peak	100	360
6	288.50	52.88	-13.12	39.76	46.00	-6.24	Peak	100	360

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
6. The data is worse case.



Power :	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode 3 :	802.11n HT40, CH3	Temperature :	26 °C
Memo :		Humidity :	61 %



Item	Freq	Read		Result	Limit	Margin	Remark	Ant	Tab
		Value	Factor					Pos	Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	344.80	50.39	-8.64	41.75	46.00	-4.25	Peak	100	0
2	399.40	49.39	-9.28	40.11	46.00	-5.89	QP	100	0
3	480.60	45.73	-4.23	41.50	46.00	-4.50	QP	100	0
4	597.50	37.62	2.84	40.46	46.00	-5.54	Peak	100	0
5	625.50	33.92	4.23	38.15	46.00	-7.85	Peak	100	0
6	721.40	38.06	3.99	42.05	46.00	-3.95	Peak	100	0

## Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
6. The data is worse case.