



MEASUREMENT REPORT

FCC Part 15B

FCC ID: O9C-BJNGAFB0008

APPLICANT: Hewlett Packard Company

Application Type: Certification

Product: Wireless LAN Access Point

Model No.: BJNGA-FB0008, JH306A

Brand Name: HP

FCC Classification: FCC Class B Digital Device (JBP)

FCC Rule Part(s): FCC Part 15 Subpart B

Test Procedure(s): ANSI C63.4: 2009

Test Date: Mar.16 ~ May. 29, 2015

Reviewed By : Robin Wu
(Robin Wu)

Approved By : Marlin Chen
(Marlin Chen)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2009. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date
1503RSU02004	Rev. 01	Initial report	06-01-2015

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§2.1033 General Information

Applicant:	Hewlett Packard Company
Applicant Address:	153 Taylor Street Littleton Massachusetts, United States 01460-1407
Manufacturer:	Hewlett Packard Company
Manufacturer Address:	153 Taylor Street Littleton Massachusetts, United States 01460-1407
Test Site:	MRT Technology (Suzhou) Co., Ltd
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
MRT FCC Registration No.:	809388
Model No.:	BJNGA-FB0008, JH306A
FCC ID:	O9C-BJNGAFB0008
Test Device Serial No.:	N/A <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering
FCC Classification:	FCC Class B Digital Device (JBP)

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.


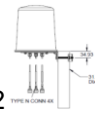
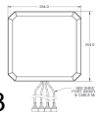
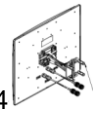


2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	Wireless LAN Access Point
Model No.	BJNGA-FB0008, JH306A
Power Type	POE input
Frequency Range	<p><u>For 2.4GHz Band:</u></p> <p>802.11b/g/n: 2412 ~ 2462 MHz</p> <p><u>For 5.0GHz Band:</u></p> <p>802.11a/n/ac: 5150 ~ 5350MHz 5470 ~ 5725MHz 5725 ~ 5850MHz</p>
Type of Modulation	<p>802.11b: DSSS</p> <p>802.11g/a/n/ac: OFDM</p>

2.2. Description of Available Antennas

Antenna No.	Frequency Band (GHz)	Operation Mode	Product Number	Tx Paths	Max Peak Gain (dBi)	> 30 Degree Peak Gain (dBi)	Directional Gain (dBi)	
							For Power	For PSD
 1	2.4	Indoor P-T-MP	JG696A	2	3.83	---	3.83	6.84
	5			2	5.69	---	5.69	8.70
 2	2.4	Outdoor P-T-MP	JL195A	2	6.70	---	6.70	9.71
	5			2	10.70	-2.0	10.70	13.71
 3	2.4	Outdoor P-T-MP	JL193A	2	8.80	---	8.80	8.80
	5			2	8.90	7.0	8.90	8.90
 4	2.4	Outdoor P-T-P	JL194A	2	11.50	---	11.50	11.50
	5			2	15.60	---	15.60	15.60

2.3. Device Capabilities

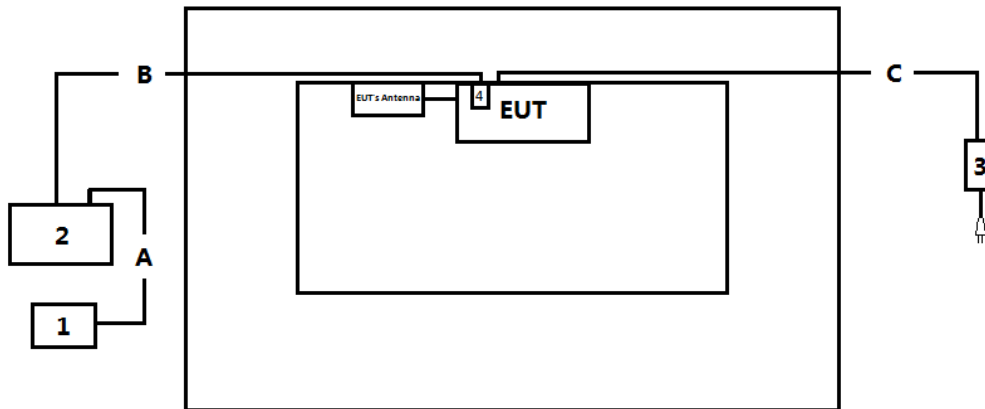
This device contains the following capabilities:

2.4GHz&5GHz (DTS/UNII)

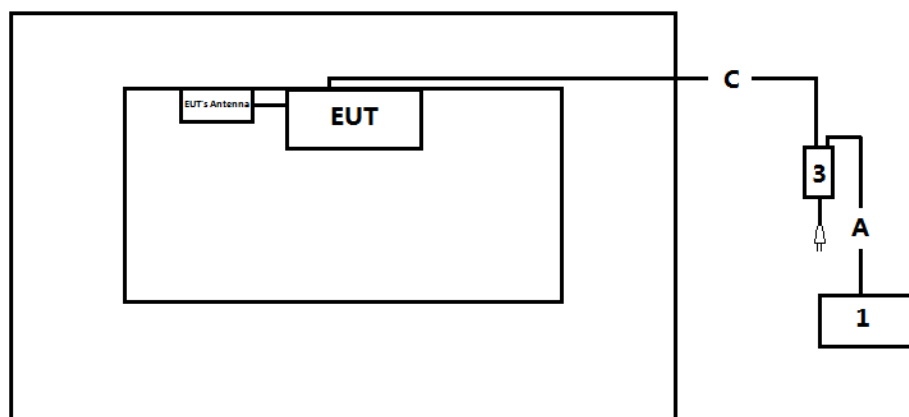
2.4. Test Configuration

The Wireless LAN Access Point FCC ID: O9C-BJNGAFB0008 was tested per the guidance FCC Part 15 Subpart B: 2014 and ANSI C63.4: 2009 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

Connection Diagram (Mode 1: Communication by optical fiber cable)



Connection Diagram (Mode 2: Communication by LAN cable)



Signal Cable Type		Signal cable Description			
A	LAN cable	Non-shielding, 1.0 m			
B	Optical fiber cable	Non-shielding, >10m			
C	LAN cable	Non-shielding, >10m			
Product	Manufacturer	Model No.	Serial No.	Power Cord	
1	Notebook	Lenovo	X201	3626AM3	Non-Shielded, 1.8m
2	H3C Router	H3C	WX3010-PoEP	N/A	N/A
3	POE Adapter	HP	PD-9001GR/AT/AC, J9867A	CN44GF60Y7	N/A
4	Optical Module	H3C	RTXM191-400, RTXM191-400-H3C	EA131200121282	N/A

Note 1: When we configured the EUT set-up, the console port didn't connect some peripherals, which was used to do software upgrade for the professional installers.

2.5. Test Software

1	Setup the EUT and simulators as shown on above.
2	Make the EUT communicate with notebook by optical fiber cable or LAN cable.

2.6. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.7. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(a)(5).

Please see attachment for FCC ID label and label location.

3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2009) was used in the measurement of the **Wireless LAN Access Point FCC ID: O9C-BJNGAFB0008**.

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150 kHz to 30 MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or resolution, clock or data exchange speed, scrolling H pattern to the EUT and/or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. Line conducted emissions test results are shown in Section 6.2.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30 MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30 MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB beam-width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2015/11/07
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2015/11/07
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2015/11/07
Temperature/ Meter Humidity	Anymetre	TH101B	MRTSUE06047	1 year	2015/11/14

Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	E4447A	MRTSUE06028	1 year	2015/10/09
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2015/11/07
Preamplifier	Agilent	83017A	MRTSUE06019	1 year	2015/12/13
TRILOG Antenna	Schwarzbeck	VULB9162	MRTSUE06022	1 year	2015/11/08
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06023	1 year	2015/11/08
Temperature/Humidity Meter	Anymetre	TH101B	MRTSUE06048	1 year	2015/11/14

Software	Version	Function
e3	V 8.3.5	EMI Test Software (CE & RE)

5. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 150kHz~30MHz: 3.5dB
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): Horizontal: 30MHz~1GHz: 4.07dB 1GHz~18GHz: 4.16 dB Vertical: 30MHz~1GHz: 4.18 dB 1GHz~18GHz: 4.76 dB

6. TEST RESULT

6.1. Summary

Company Name: Hewlett Packard Company
FCC ID: O9C-BJNGAFB0008
FCC Classification: FCC Class B Digital Device (JBP)
Test Mode: Communication

FCC Part Section(s)	Test Description	Test Result
15.107	Conducted Emissions	Pass
15.109	Radiated Emissions	Pass

6.2. Conducted Emission Measurement

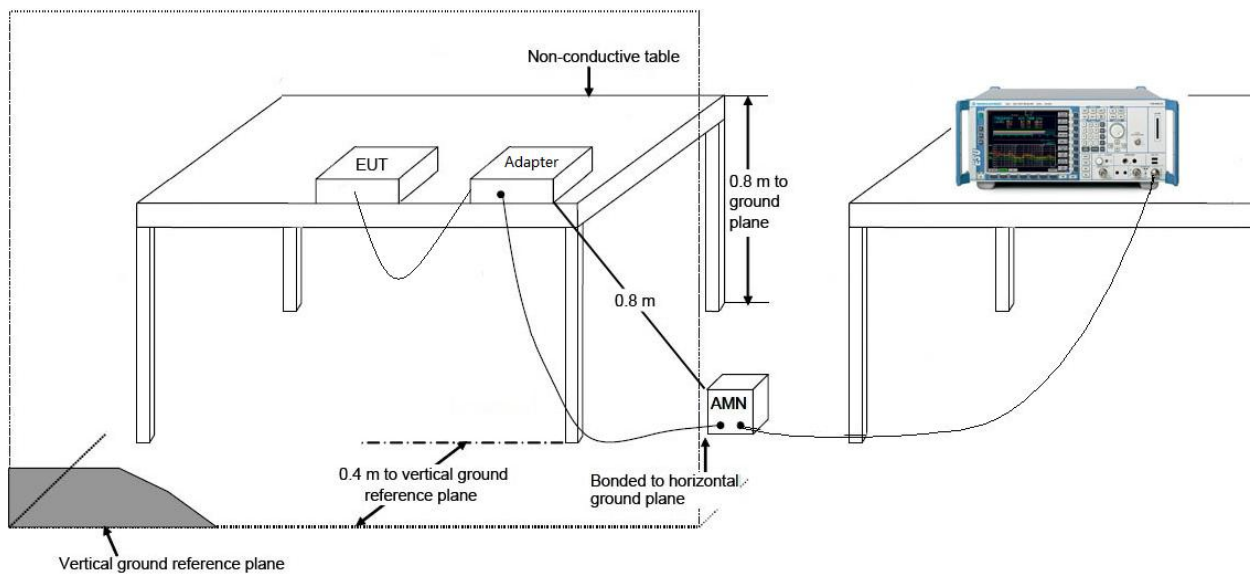
6.2.1. Test Limit

FCC Part 15.107 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

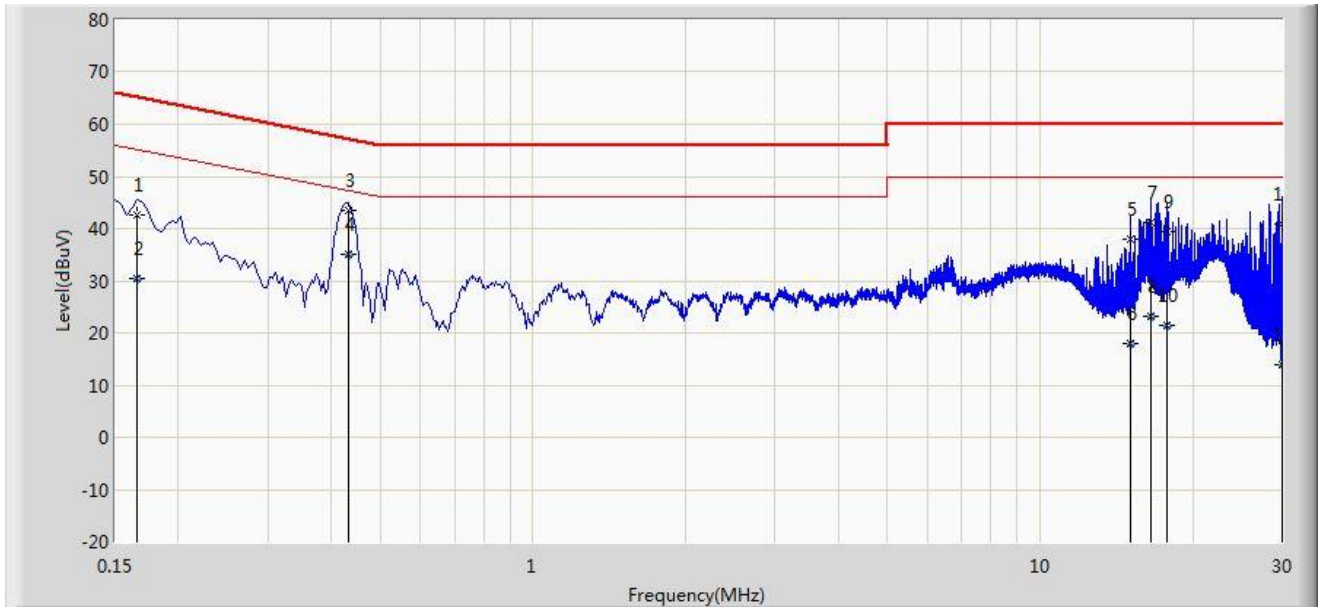
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.2.2. Test Setup



6.2.3. Test Result of Conducted Emissions

Site: SR2	Time: 2015/04/19 - 17:09
Limit: FCC_Part15.107_CE_AC Power_ClassB	Engineer: Milo Li
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Wireless LAN Access Point	Power: AC 120V/60Hz
Note: Mode 1	

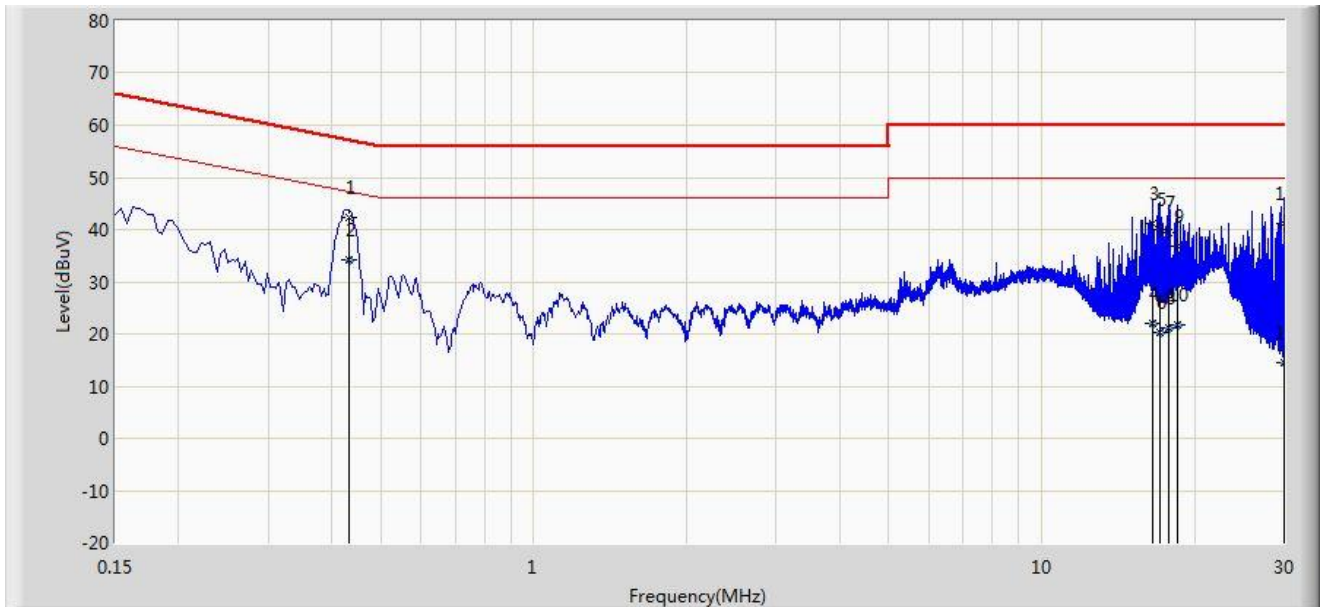


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.166	42.735	32.648	-22.423	65.158	10.087	QP
2			0.166	30.439	20.352	-24.719	55.158	10.087	AV
3			0.434	43.345	33.232	-13.831	57.176	10.113	QP
4		*	0.434	35.093	24.979	-12.083	47.176	10.113	AV
5			15.022	37.881	27.817	-22.119	60.000	10.064	QP
6			15.022	18.009	7.945	-31.991	50.000	10.064	AV
7			16.550	41.192	31.115	-18.808	60.000	10.077	QP
8			16.550	23.177	13.100	-26.823	50.000	10.077	AV
9			17.830	39.297	29.203	-20.703	60.000	10.094	QP
10			17.830	21.331	11.237	-28.669	50.000	10.094	AV
11			29.986	40.884	30.614	-19.116	60.000	10.270	QP
12			29.986	14.016	3.746	-35.984	50.000	10.270	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2015/04/19 - 17:17
Limit: FCC_Part15.107_CE_AC Power_ClassB	Engineer: Milo Li
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: Wireless LAN Access Point	Power: AC 120V/60Hz
Note: Mode 1	

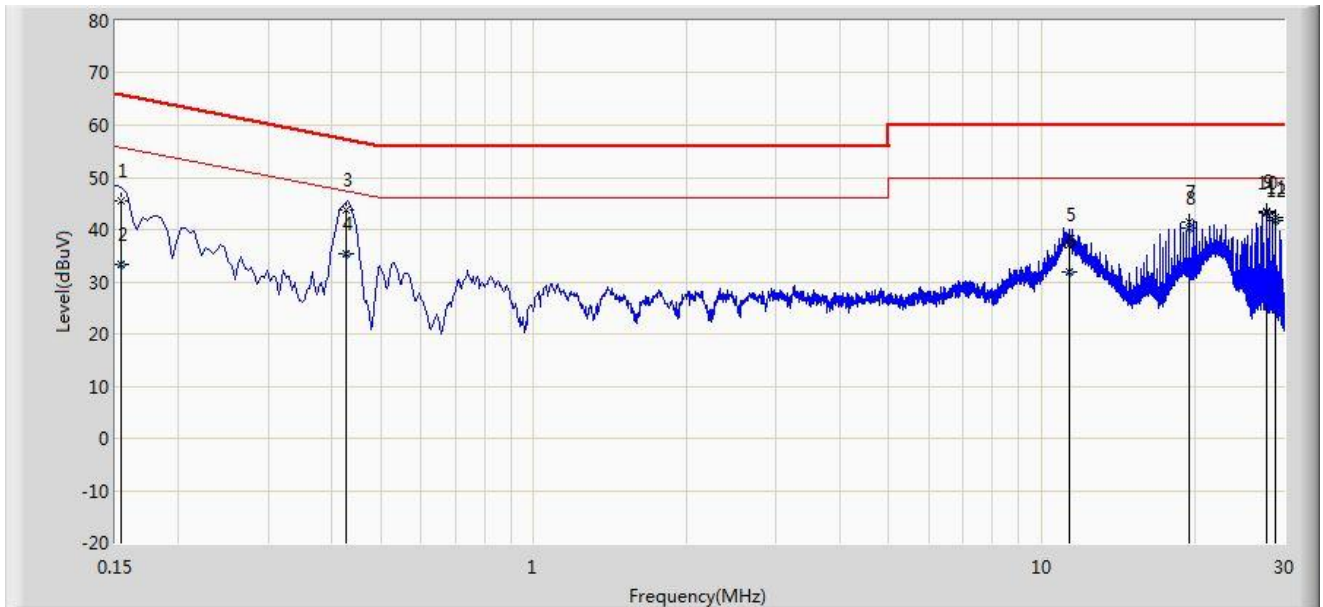


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.434	42.390	32.252	-14.786	57.176	10.138	QP
2		*	0.434	34.146	24.008	-13.030	47.176	10.138	AV
3			16.550	41.199	31.079	-18.801	60.000	10.120	QP
4			16.550	22.105	11.984	-27.895	50.000	10.120	AV
5			17.038	40.056	29.936	-19.944	60.000	10.120	QP
6			17.038	20.294	10.174	-29.706	50.000	10.120	AV
7			17.830	39.427	29.295	-20.573	60.000	10.132	QP
8			17.830	21.039	10.907	-28.961	50.000	10.132	AV
9			18.442	36.730	26.593	-23.270	60.000	10.137	QP
10			18.442	21.771	11.634	-28.229	50.000	10.137	AV
11			29.982	41.029	30.589	-18.971	60.000	10.440	QP
12			29.982	14.564	4.124	-35.436	50.000	10.440	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2015/04/19 - 17:23
Limit: FCC_Part15.107_CE_AC Power_ClassB	Engineer: Milo Li
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Wireless LAN Access Point	Power: AC 120V/60Hz
Note: Mode 2	

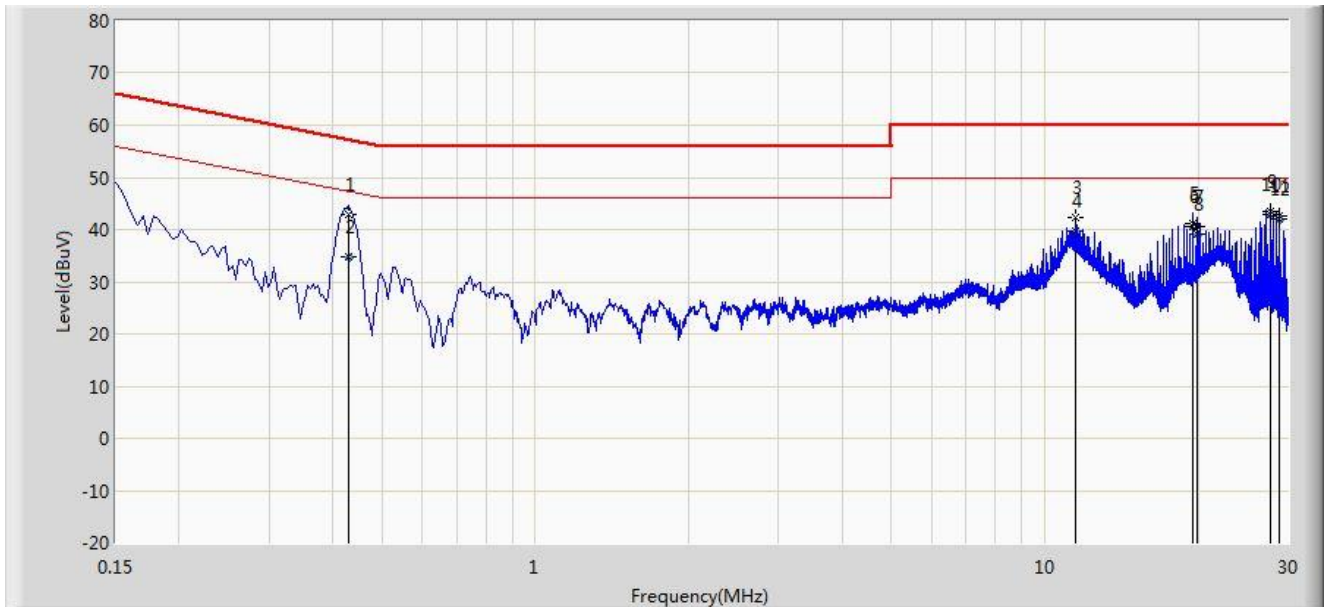


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.154	45.523	34.784	-20.258	65.781	10.740	QP
2			0.154	33.247	22.507	-22.534	55.781	10.740	AV
3			0.426	43.771	33.664	-13.559	57.330	10.107	QP
4			0.426	35.421	25.314	-11.909	47.330	10.107	AV
5			11.302	37.074	26.976	-22.926	60.000	10.097	QP
6			11.302	31.760	21.662	-18.240	50.000	10.097	AV
7			19.478	41.315	31.182	-18.685	60.000	10.133	QP
8			19.478	40.368	30.235	-9.632	50.000	10.133	AV
9			27.654	43.545	33.301	-16.455	60.000	10.244	QP
10		*	27.654	43.176	32.932	-6.824	50.000	10.244	AV
11			28.854	42.200	31.924	-17.800	60.000	10.276	QP
12			28.854	41.638	31.362	-8.362	50.000	10.276	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2015/04/19 - 17:34
Limit: FCC_Part15.107_CE_AC Power_ClassB	Engineer: Milo Li
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: Wireless LAN Access Point	Power: AC 120V/60Hz
Note: Mode 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.430	43.026	32.891	-14.227	57.253	10.135	QP
2			0.430	34.722	24.587	-12.531	47.253	10.135	AV
3			11.466	42.305	32.178	-17.695	60.000	10.127	QP
4			11.466	39.760	29.633	-10.240	50.000	10.127	AV
5			19.478	41.299	31.134	-18.701	60.000	10.165	QP
6			19.478	40.491	30.325	-9.509	50.000	10.165	AV
7			19.958	40.446	30.276	-19.554	60.000	10.170	QP
8			19.958	39.023	28.853	-10.977	50.000	10.170	AV
9			27.654	43.497	33.120	-16.503	60.000	10.377	QP
10		*	27.654	42.778	32.401	-7.222	50.000	10.377	AV
11			28.858	42.508	32.079	-17.492	60.000	10.429	QP
12			28.858	42.095	31.666	-7.905	50.000	10.429	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

6.3. Radiated Emission Measurement

6.3.1. Test Limit

FCC Part 15.109 Limits		
Frequency (MHz)	Distance (m)	Level (dB μ V/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

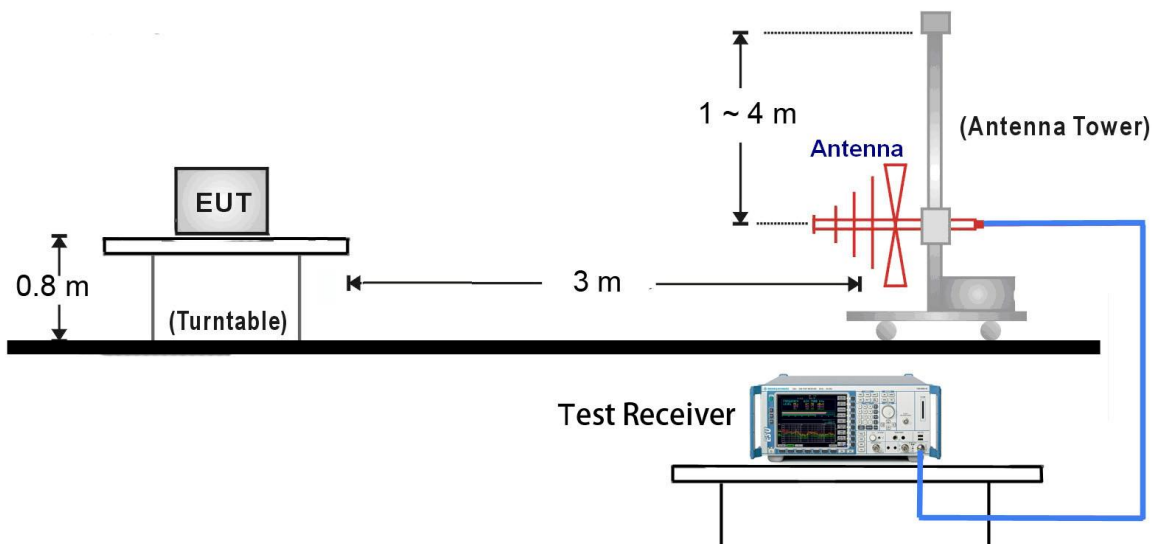
Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

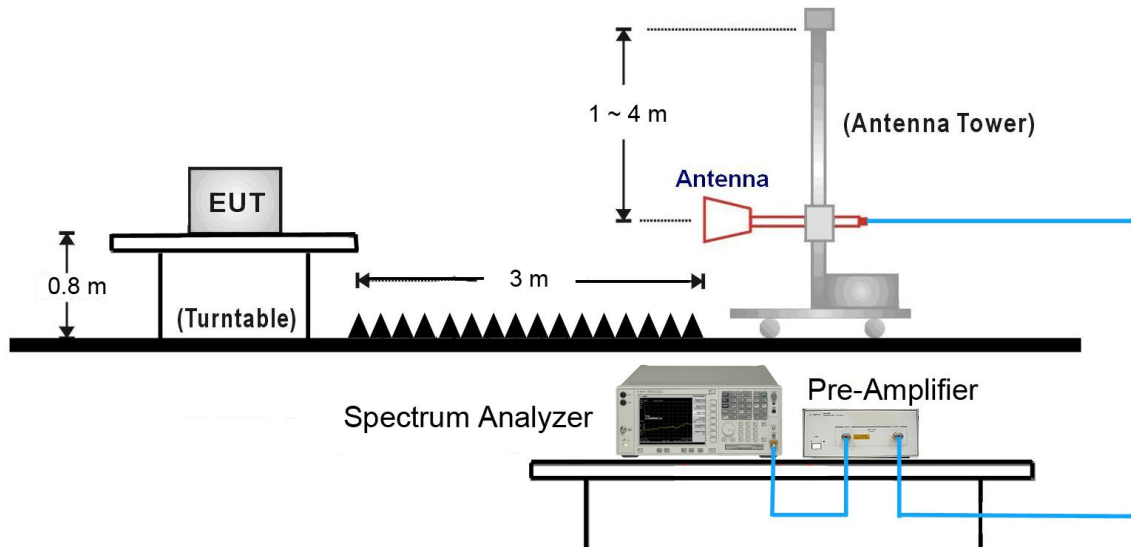
Note 3: E field strength (dB μ V/m) = 20 log E field strength (uV/m)

6.3.2. Test Setup

30MHz ~ 1GHz Test Setup:

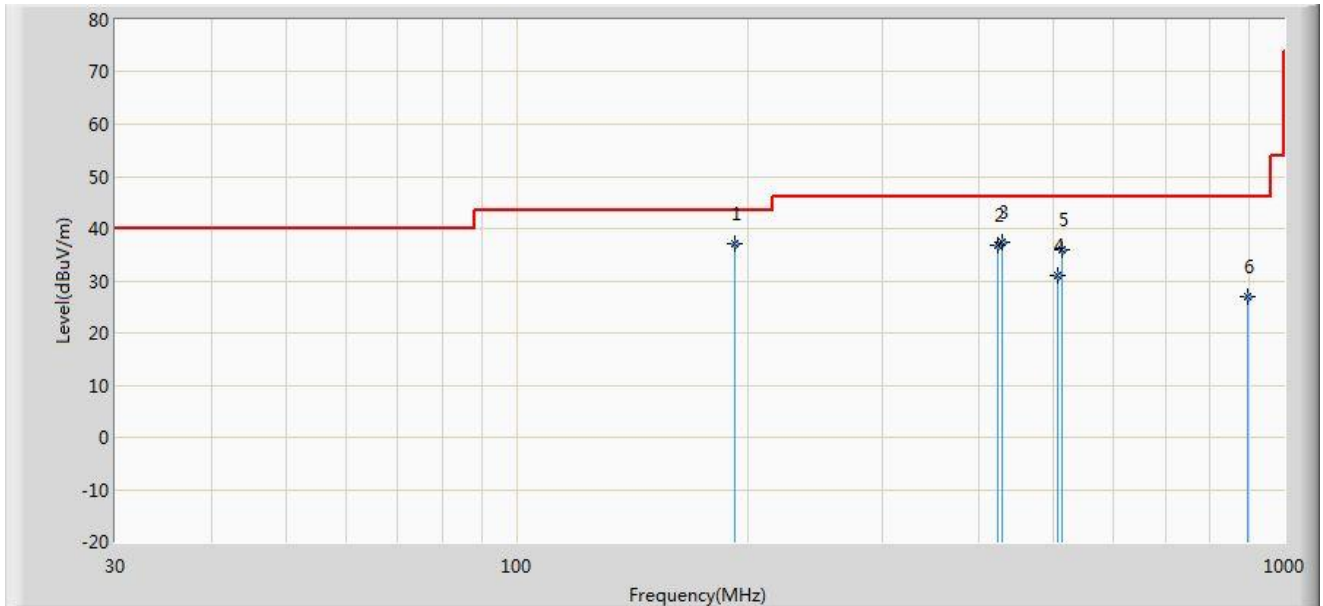


1GHz ~18GHz Test Setup:



6.3.3. Test Result of Radiated Emissions

Site: AC1	Time: 2015/04/20 - 10:10
Limit: FCC_Part15.109_RE(3m)_ClassB	Engineer: Milo Li
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: Wireless LAN Access Point	Power: AC 120V/60Hz
Note: Mode 1	

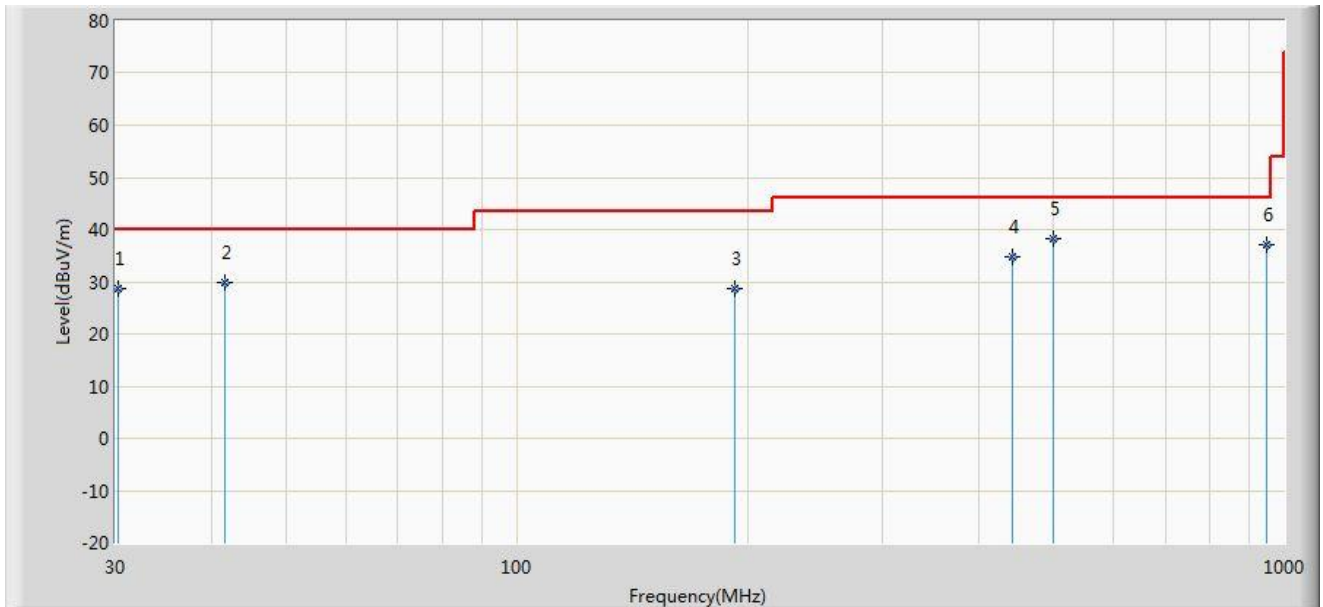


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	192.490	36.999	25.100	-6.501	43.500	11.899	QP
2			423.340	36.845	19.860	-9.155	46.000	16.985	QP
3			429.750	37.492	20.430	-8.508	46.000	17.062	QP
4			508.025	31.132	12.800	-14.868	46.000	18.332	QP
5			514.302	35.977	17.540	-10.023	46.000	18.437	QP
6			897.103	27.021	3.060	-18.979	46.000	23.961	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2015/04/20 - 10:12
Limit: FCC_Part15.109_RE(3m)_ClassB	Engineer: Milo Li
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: Wireless LAN Access Point	Power: AC 120V/60Hz
Note: Mode 1	

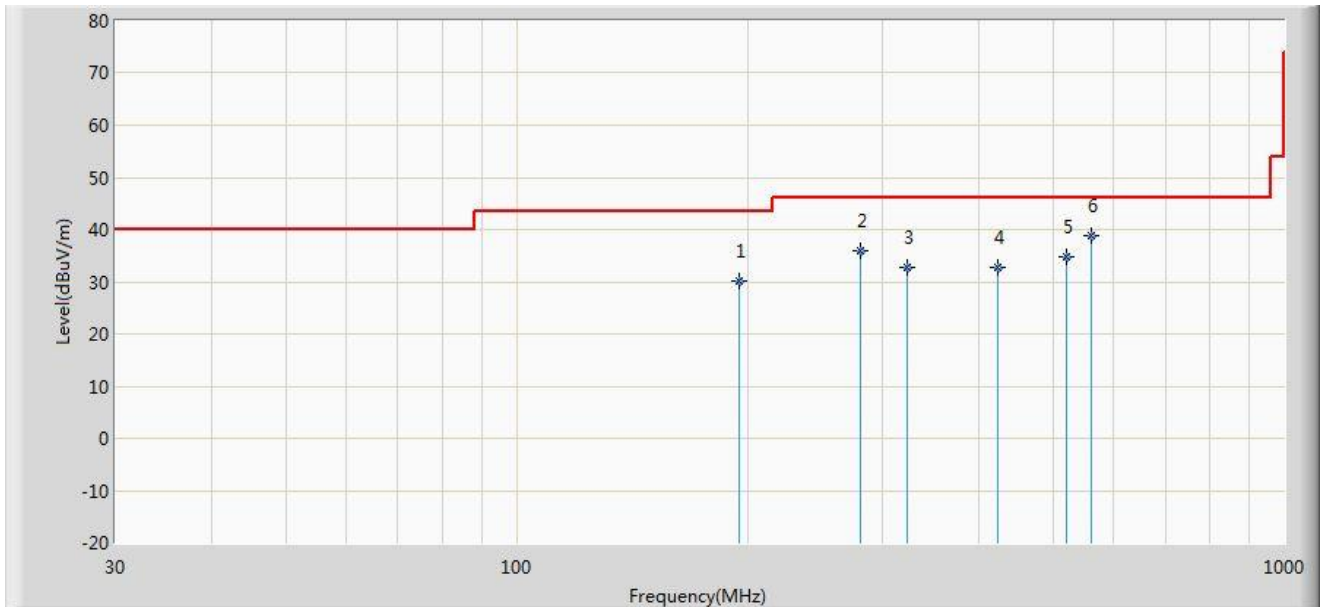


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			30.310	28.777	16.700	-11.223	40.000	12.077	QP
2			41.602	29.968	15.820	-10.032	40.000	14.148	QP
3			192.520	28.701	16.800	-14.799	43.500	11.901	QP
4			442.500	34.840	17.620	-11.160	46.000	17.220	QP
5		*	500.040	38.400	20.170	-7.600	46.000	18.230	QP
6			950.110	36.990	12.630	-9.010	46.000	24.361	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2015/04/20 - 10:06
Limit: FCC_Part15.109_RE(3m)_ClassB	Engineer: Milo Li
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: Wireless LAN Access Point	Power: AC 120V/60Hz
Note: Mode 2	

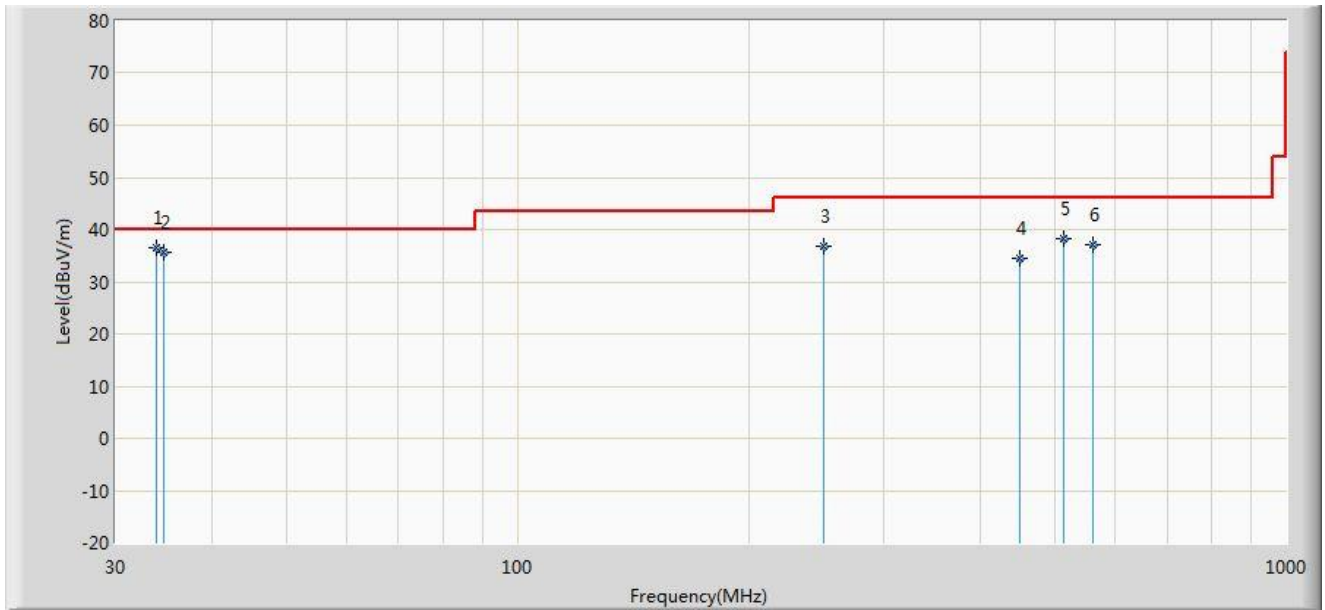


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			194.780	30.154	18.120	-13.346	43.500	12.034	QP
2			280.210	35.995	21.850	-10.005	46.000	14.145	QP
3			323.230	32.666	17.560	-13.334	46.000	15.106	QP
4			423.300	32.704	15.720	-13.296	46.000	16.984	QP
5			520.650	34.875	16.350	-11.125	46.000	18.524	QP
6		*	559.670	38.861	19.620	-7.139	46.000	19.241	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2015/04/20 - 10:06
Limit: FCC_Part15.109_RE(3m)_ClassB	Engineer: Milo Li
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: Wireless LAN Access Point	Power: AC 120V/60Hz
Note: Mode 2	

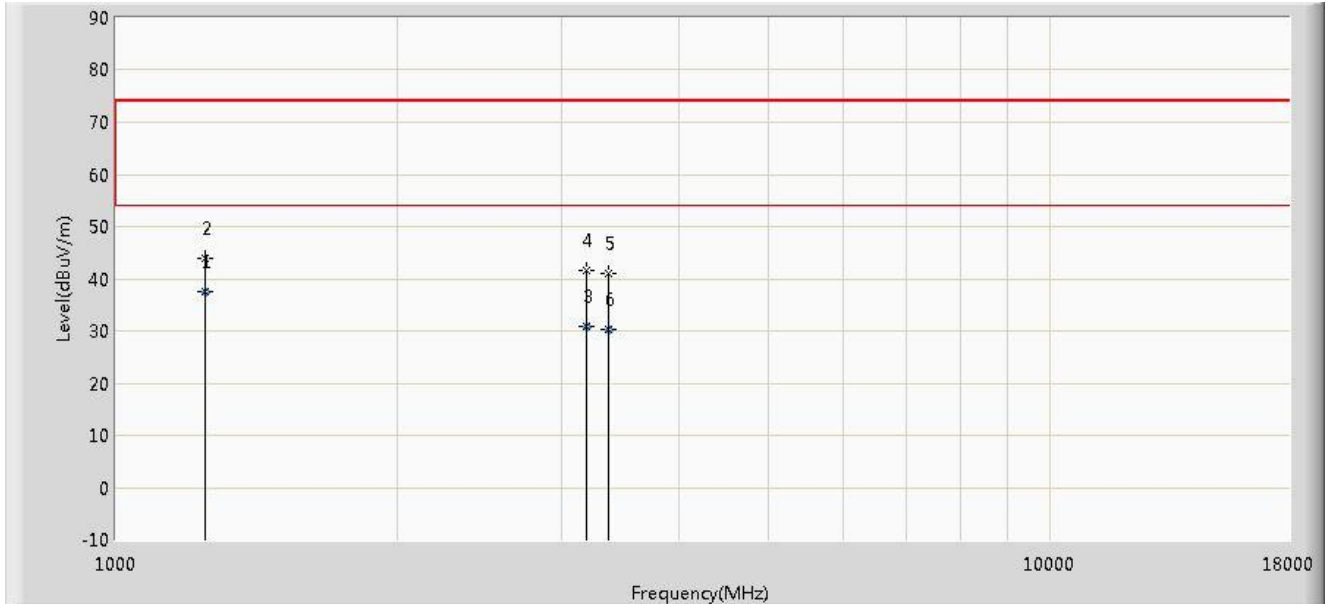


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	33.860	36.403	23.690	-3.597	40.000	12.713	QP
2			34.670	35.727	22.870	-4.273	40.000	12.857	QP
3			250.010	36.838	23.210	-9.162	46.000	13.627	QP
4			450.030	34.375	17.040	-11.625	46.000	17.335	QP
5			514.330	38.316	19.878	-7.684	46.000	18.438	QP
6			559.870	37.175	17.930	-8.825	46.000	19.245	QP

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2015/04/17 - 19:35
Limit: FCC_Part15.109_RE(3m)_ClassB	Engineer: Milo Li
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wireless LAN Access Point	Power: AC 120V/60Hz
Note: Mode 1	

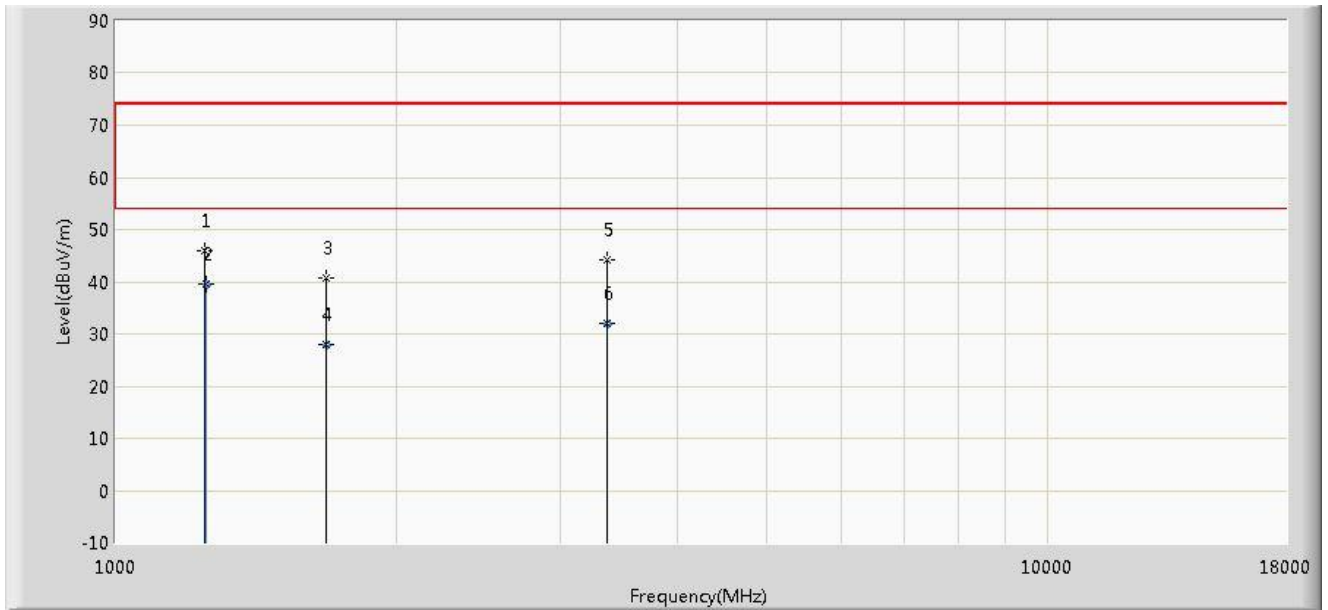


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	1246.240	37.654	46.240	-16.346	54.000	-8.586	AV
2			1246.500	43.952	52.536	-30.048	74.000	-8.583	PK
3			3184.260	30.882	32.460	-23.118	54.000	-1.578	AV
4			3184.500	41.497	43.076	-32.503	74.000	-1.579	PK
5			3363.000	40.995	42.819	-33.005	74.000	-1.824	PK
6			3364.210	30.191	32.010	-23.809	54.000	-1.819	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB).

Site: AC1	Time: 2015/04/17 - 19:35
Limit: FCC_Part15.109_RE(3m)_ClassB	Engineer: Milo Li
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wireless LAN Access Point	Power: AC 120V/60Hz
Note: Mode 1	

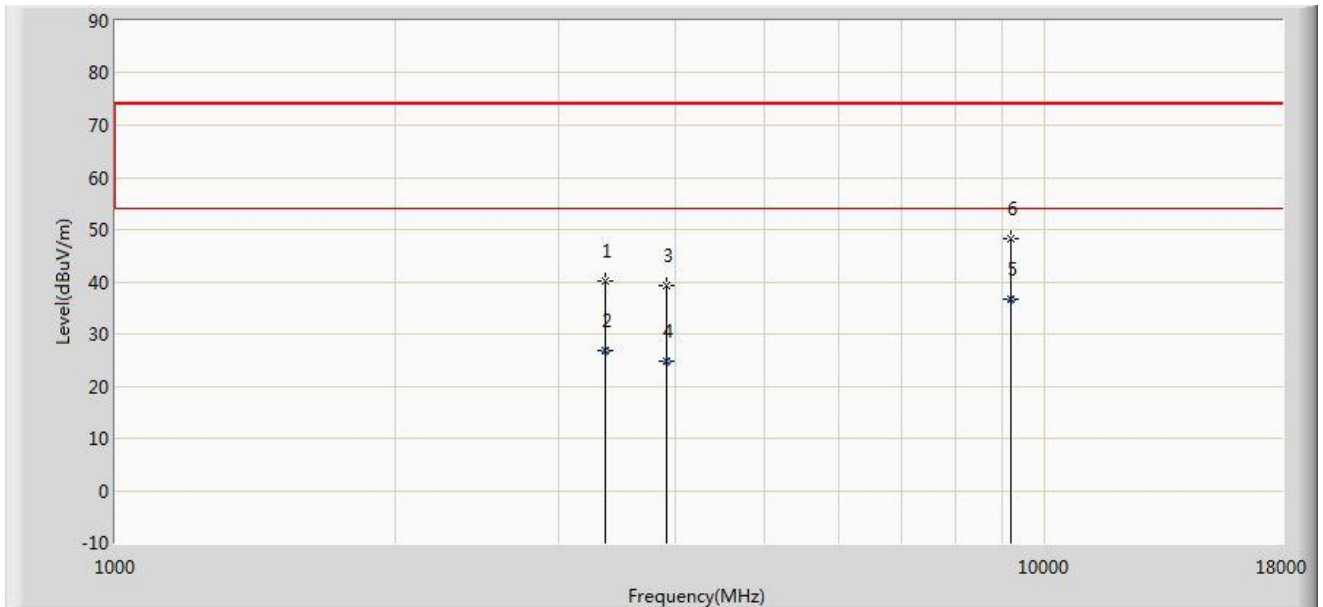


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			1246.500	46.042	54.626	-27.958	74.000	-8.583	PK
2		*	1250.030	39.508	48.060	-14.492	54.000	-8.552	AV
3			1680.000	40.828	48.394	-33.172	74.000	-7.566	PK
4			1680.040	27.834	35.400	-26.166	54.000	-7.566	AV
5			3363.000	44.341	46.165	-29.659	74.000	-1.824	PK
6			3363.080	32.096	33.920	-21.904	54.000	-1.824	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB).

Site: AC1	Time: 2015/04/15 - 11:17
Limit: FCC_Part15.109_RE(3m)_ClassB	Engineer: Jame
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wireless LAN Access Point	Power: AC 120V/60Hz
Note: Mode 2	

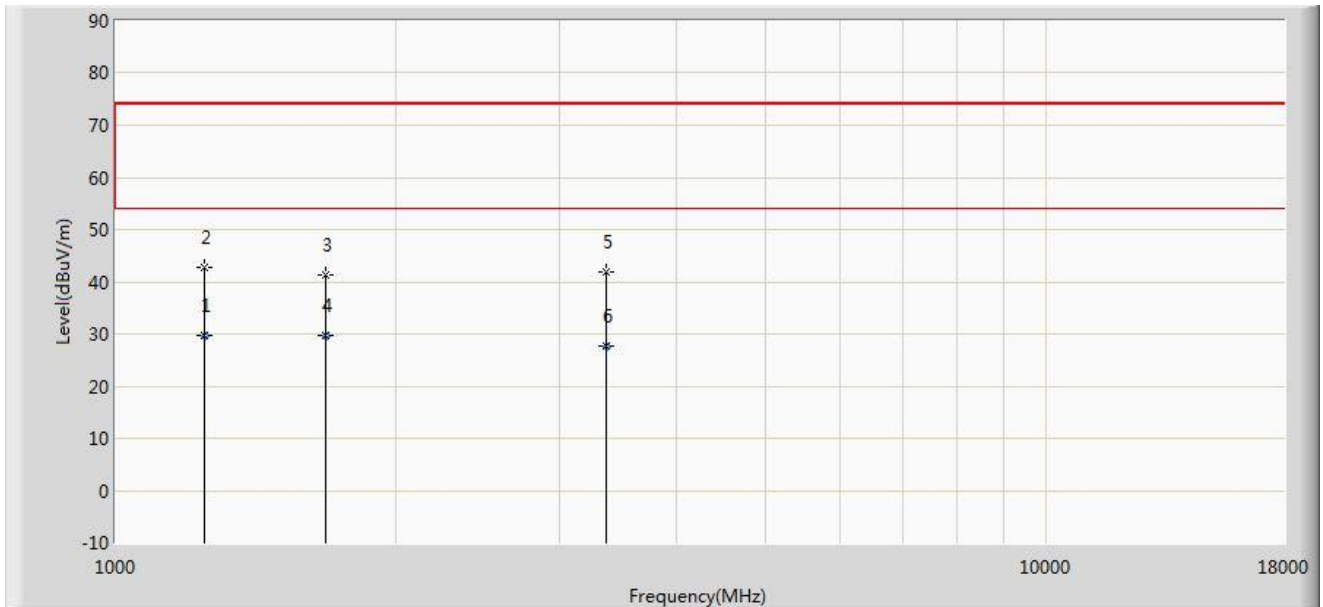


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			3363.000	40.182	42.006	-33.818	74.000	-1.824	PK
2			3363.108	26.777	28.600	-27.223	54.000	-1.824	AV
3			3915.500	39.397	39.163	-34.603	74.000	0.234	PK
4			3915.810	24.925	24.690	-29.075	54.000	0.235	AV
5		*	9185.410	36.579	26.540	-17.421	54.000	10.039	AV
6			9185.500	48.262	38.222	-25.738	74.000	10.039	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB).

Site: AC1	Time: 2015/04/15 - 11:17
Limit: FCC_Part15.109_RE(3m)_ClassB	Engineer: Jame
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wireless LAN Access Point	Power: AC 120V/60Hz
Note: Mode 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	1246.480	29.816	38.400	-24.184	54.000	-8.585	AV
2			1246.500	42.835	51.419	-31.165	74.000	-8.583	PK
3			1680.000	41.398	48.964	-32.602	74.000	-7.566	PK
4			1680.060	29.604	37.170	-24.396	54.000	-7.566	AV
5			3363.000	41.924	43.748	-32.076	74.000	-1.824	PK
6			3363.084	27.676	29.500	-26.324	54.000	-1.824	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB).

7. CONCLUSION

The data collected relate only the item(s) tested and show that the **Wireless LAN Access Point FCC ID: O9C-BJNGAFB0008** has been tested to comply with the requirements specified in §15.107 and §15.109 of the FCC Rules.

————— The End —————