



APPLICATION OF CERTIFICATION
For

Altai Technologies Limited

A8in Super WiFi Base Station

Model Number: WA8011N-HE

FCC ID: UCC-WA8011N-HE

Prepared for : Altai Technologies Limited
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Report Number : ACS- F13250
Date of Test : Oct.12~18, 2013
Date of Report : Apr.11, 2014

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TEST REPORT CERTIFICATION

Applicant : Altai Technologies Limited
 Manufacturer : Altai Technologies Limited
 EUT Description : A8in Super WiFi Base Station
 FCC ID : UCC-WA8011N-HE

(A) Model No. : WA8011N-HE

(B) Power Supply : AC 100V-240V, 50/60Hz

(C) Test Voltage : DC 56V From Adapter Input AC 120V/60Hz

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2012

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both conducted and radiated emissions. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed of full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Oct.12~ 18, 2013 Report of date: Apr.11, 2014

Prepared by : Lisa Liang / Assistant Reviewed by : Sunny Lu / Assistant Manager

Approved & Authorized Signer :



David Jin / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Results	Remarks
Power Line Conducted Emission Test	FCC Part 15: 2012 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 4.69dB at 20.269MHz
Radiated Emission Test (30-1000MHz)	FCC Part 15: 2012 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 5.46dB at 37.760MHz
Radiated Emission Test (1-6GHz)	FCC Part 15: 2012 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 11.26dB at 5030.960MHz

2. GENERAL INFORMATION

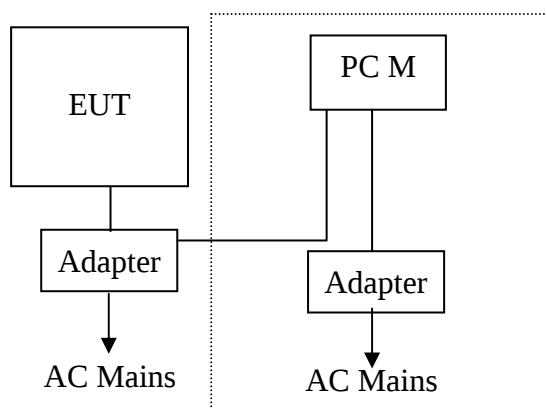
2.1. Equipment under test (EUT)

Product Name	: A8in Super WiFi Base Station
Model Number	: WA8011N-HE
FCC ID	: UCC-WA8011N-HE
Radio	: IEEE802.11 a/b/g/n
Operation Frequency	: IEEE 802.11a: 5745MHz—5825MHz IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11nHT20: 2412MHz—2462MHz, 5745MHz—5825MHz IEEE 802.11nHT40: 2422MHz—2452MHz, 5755MHz—5795MHz
Modulation Technology	: IEEE 802.11b: DSSS(CCK,DBPSK) IEEE 802.11a/g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
Antenna Assembly Gain	: 2.4GHz: Built-in Antenna, 19dBi 5GHz : External Antenna, 20dBi;
Applicant	: Altai Technologies Limited Units 209, 2/F, Lakeside 2, 10 Science Park West Avenue, Hong Kong Science Park, Shatin, Hong Kong, China
Manufacturer	: Altai Technologies Limited Units 209, 2/F, Lakeside 2, 10 Science Park West Avenue, Hong Kong Science Park, Shatin, Hong Kong, China
AC Adapter	: Manufacturer: FSGREAT M/N: GRT-560110A S/N : 130840101
Date of Test	: Oct.12~18, 2013
Date of Receipt	: Mar.01, 2013
Sample Type	: Prototype production

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1	Personal Computer	Test PC M	DELL	Studio 540	224XK2X	☒ FCC DoC ☒ BSMI ID:R33002
		Power Cord: Unshielded, Detachable, 1.8m Display Card: HD3450 (DVI+VGA+HDMI)				
2	Monitor	ACS-EMC-LM04R	DELL	1907FPt	CN-009759-7161 8-6AP-ACPP	☒ FCC DoC ☒ BSMI ID:R3A002
		Power Cord: Unshielded, Detachable, 1.8m VGA Cable: Shielded, Detachable, 2.0m (with two cores) DVI Cable: Shielded, Detachable, 2.0m (with two cores)				
3	USB Mouse	ACS-EMC-M04R	DELL	M0C5UO	512024282	☒ FCC DoC ☒ BSMI ID:R41108
		Power Cord: shielded, Undetachable, 1.8m				
4	USB Keyboard	ACS-EMC- K04R	DELL	SK-8115	CN-ODJ313-716 16-6BB-049J	☒ FCC DoC ☒ BSMI ID:T3A002
		Power Cord: shielded, Undetachable, 2.0m				

2.3. Block Diagram of Test Setup



(EUT: A8in Super WiFi Base Station)

2.4. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block, Shenzhen
Science & Industrial Park, Nantou,
Shenzhen, Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 90454
Valid Date: Feb.22, 2015

3m & 10m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 794232
Valid Date: Oct.31, 2015

EMC Lab. : Certificated by DAkkS, Germany
Registration No: D-PL-12151-01-01
Valid Date: Feb.01, 2014

Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2014

2.5. Measurement Uncertainty (95% confidence levels, k=2)

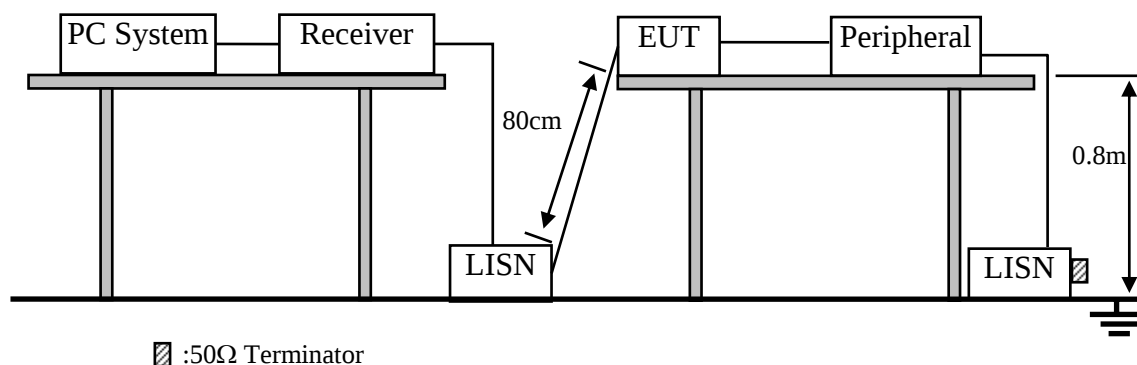
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.10dB (150kHz~30MHz)
Uncertainty for Radiation Emission test in 3m chamber (Distance: 3m)	3.22 dB (30~200MHz, Polarize: H)
	3.23 dB (30~200MHz, Polarize: V)
	3.49 dB (200M~1GHz, Polarize: H)
	3.39 dB (200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	5.04 dB (1-6GHz Distance: 3m)
	5.06 dB (6-18GHz Distance: 3m)
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.31, 12	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Oct.31, 12	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 13	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 13	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 13	1 Year
6.	RF Cable	Fujikura	3D-2W	No.1	May.08, 13	1Year
7.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 13	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 13	1 Year

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. A8in Super WiFi Base Station (EUT)

Model Number : WA8011N-HE
Serial Number : N/A

3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipment..

3.5.3. PC run test software to control EUT work in (Running) mode.

3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2009 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

3.7. Conducted Emission at Mains Terminals Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test modes were tested and selected to read Q.P values and average values, all the test results are listed in next pages.

EUT: A8in Super WiFi Base Station

Model No. : WA8011N-HE

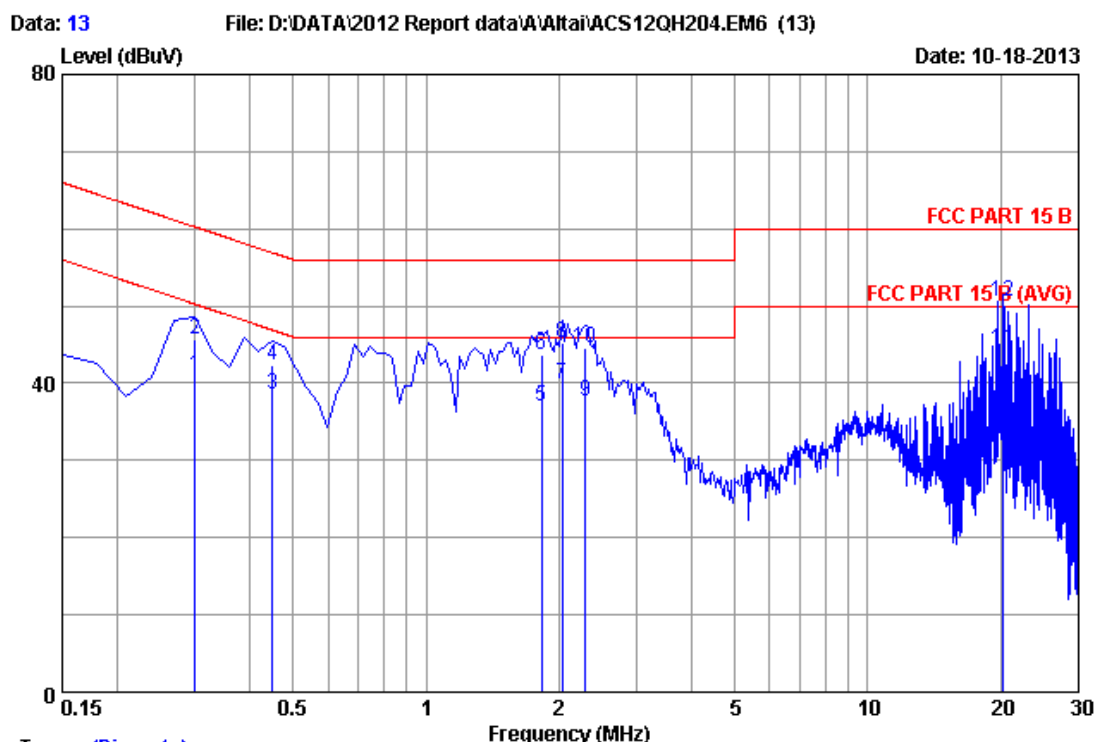
Test Date: Oct. 18, 2013

Temperature: 22.9°C

Humidity: 45%

The details of test mode are as follows :

No.	Test Mode	Reference Test Data No.	
		Line	Neutral
1.	Running	# 13	# 12

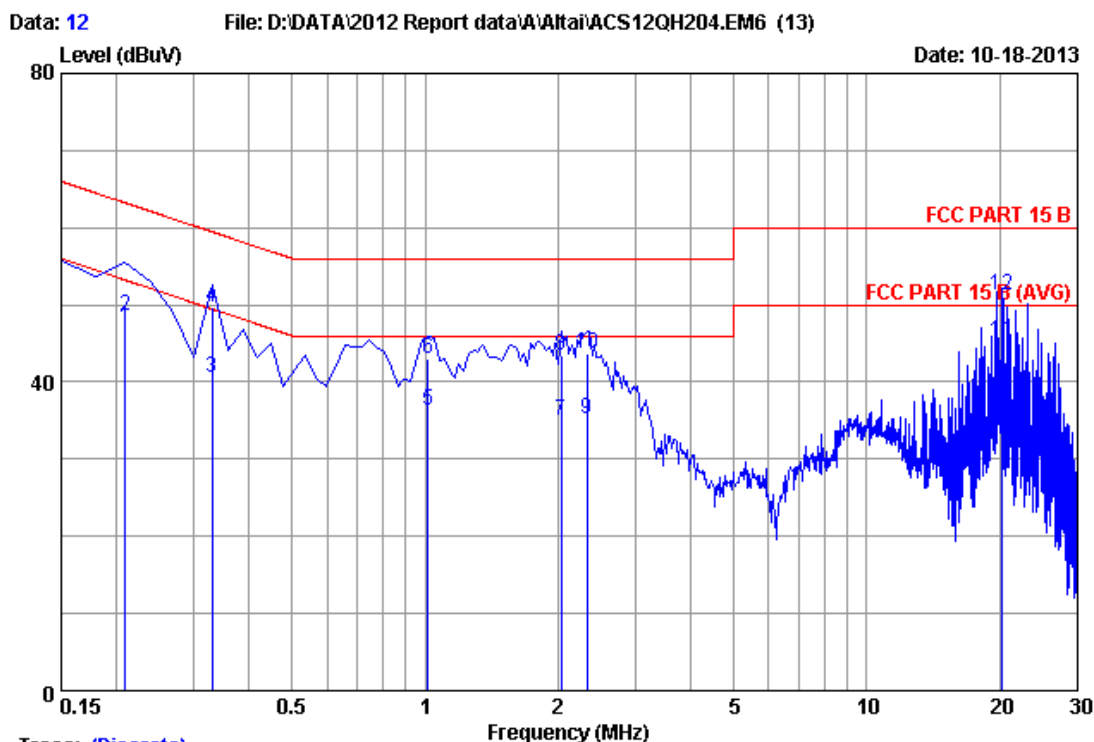


Trace: (Discrete)

Site no : 1#conduction Data No : 13
 Dis./Ant. : ** 2012 ESH2-Z5 LINE
 Limit : FCC PART 15 B
 Env./Ins. : 22.9°C/45% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power Rating : DC 56V From Adapter Input AC 120V/60Hz
 Test Mode : Running
 M/N: WA8011N-HE

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.29925	0.19	0.01	40.89	41.09	50.26	9.17	Average
2	0.29925	0.19	0.01	45.41	45.61	60.26	14.65	QP
3	0.44850	0.19	0.02	38.45	38.66	46.90	8.24	Average
4	0.44850	0.19	0.02	42.16	42.37	56.90	14.53	QP
5	1.822	0.24	0.04	36.77	37.05	46.00	8.95	Average
6	1.822	0.24	0.04	43.33	43.61	56.00	12.39	QP
7	2.031	0.24	0.04	39.59	39.87	46.00	6.13	Average
8	2.031	0.24	0.04	44.87	45.15	56.00	10.85	QP
9	2.299	0.25	0.04	37.29	37.58	46.00	8.42	Average
10	2.299	0.25	0.04	44.23	44.52	56.00	11.48	QP
11	20.269	1.18	0.14	42.92	44.24	50.00	5.76	Average
12	20.269	1.18	0.14	49.23	50.55	60.00	9.45	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss+Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Trace: (Discrete)

Site no : 1#conduction Data No : 12
 Dis./Ant. : ** 2012 ESH2-Z5 NEUTRAL
 Limit : FCC PART 15 B
 Env./Ins. : 22.9°C/45% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power Rating : DC 56V From Adapter Input AC 120V/60Hz
 Test Mode : Running
 M/N: WA8011N-HE

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.20970	0.21	0.01	46.86	47.08	53.22	6.14	Average
2	0.20970	0.21	0.01	48.32	48.54	63.22	14.68	QP
3	0.32910	0.22	0.01	40.36	40.59	49.47	8.88	Average
4	0.32910	0.22	0.01	49.36	49.59	59.47	9.88	QP
5	1.016	0.24	0.03	36.14	36.41	46.00	9.59	Average
6	1.016	0.24	0.03	42.70	42.97	56.00	13.03	QP
7	2.031	0.28	0.04	34.72	35.04	46.00	10.96	Average
8	2.031	0.28	0.04	43.16	43.48	56.00	12.52	QP
9	2.329	0.29	0.04	34.87	35.20	46.00	10.80	Average
10	2.329	0.29	0.04	43.28	43.61	56.00	12.39	QP
11	20.269	0.98	0.14	44.19	45.31	50.00	4.69	Average
12	20.269	0.98	0.14	50.04	51.16	60.00	8.84	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss+Reading.

2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

4.1.1. For frequency range 30MHz~1000MHz

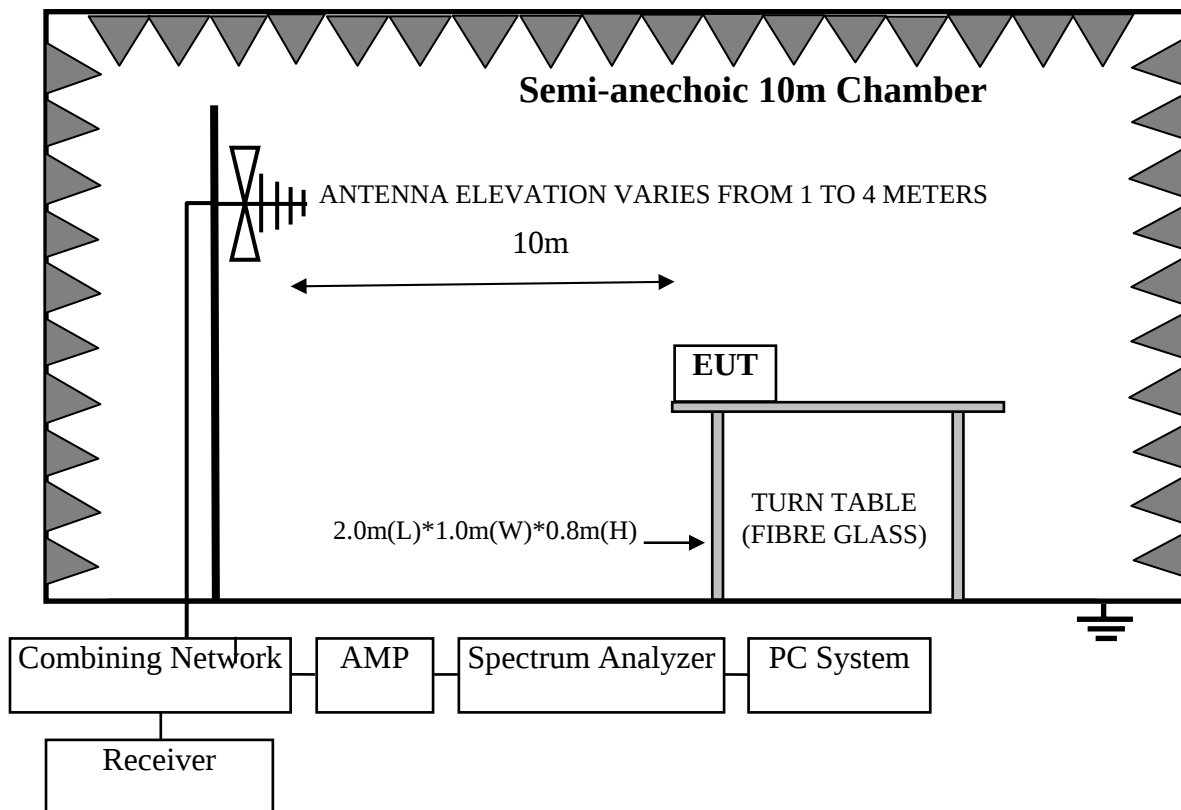
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24, 12	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 13	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 13	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 13	1 Year
5	Bilog Antenna	TESEQ	CBL6112D	35375	May.30, 13	1 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	May.08, 13	1 Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 13	1 Year

4.1.2. For frequency range 1GHz~6GHz

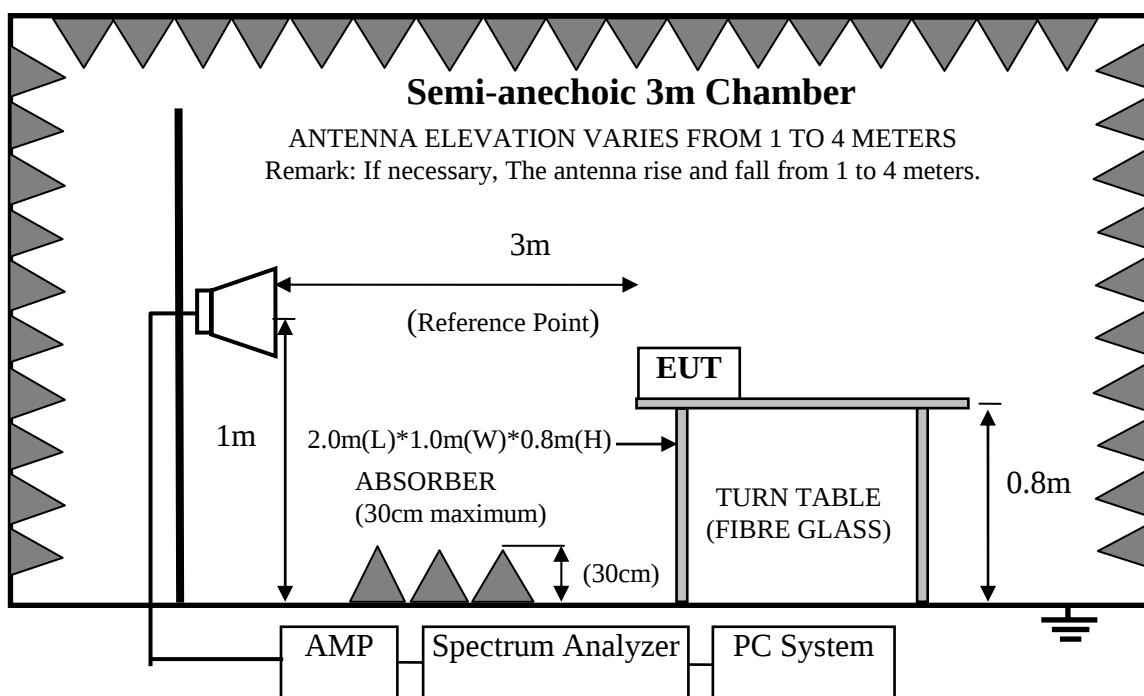
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 13	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Aug.27, 13	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 13	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 13	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	May.08, 13	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000Mz



For frequency range 1GHz-25GHz



4.3. Radiated Emission Limit

Frequency MHz	Distance (Meters)	Field Strengths Limits dB(μ V)/m
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0
Above 1000	3	74(Peak)54(Average)

- Remark: (1) Emission level = Antenna Factor + Cable Loss + Reading
Emission level = Antenna Factor - Amp Factor + Cable Loss + Reading
(above 1000MHz)
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4. EUT Configuration on Test

The configurations of EUT are listed in Section 3.4

4.5. Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.5. except the test set up replaced by Section 4.2.

4.6. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2009 on Radiated Emission test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz.

4.7. Radiated Disturbance Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

EUT: A8in Super WiFi Base Station
Model No. : WA8011N-HE

For frequency range 30MHz~1000MHz

The EUT with the following test modes were tested and selected to read Q.P values, all the test results are listed in next pages.

Test Date: Oct.12, 2013 Temperature: 24℃ Humidity: 65%

The details of test mode are as follows :

No.	Test Mode	Reference Test Data No.	
		Line	Neutral
1.	Running	# 7	# 8

For frequency range 1GHz~6GHz

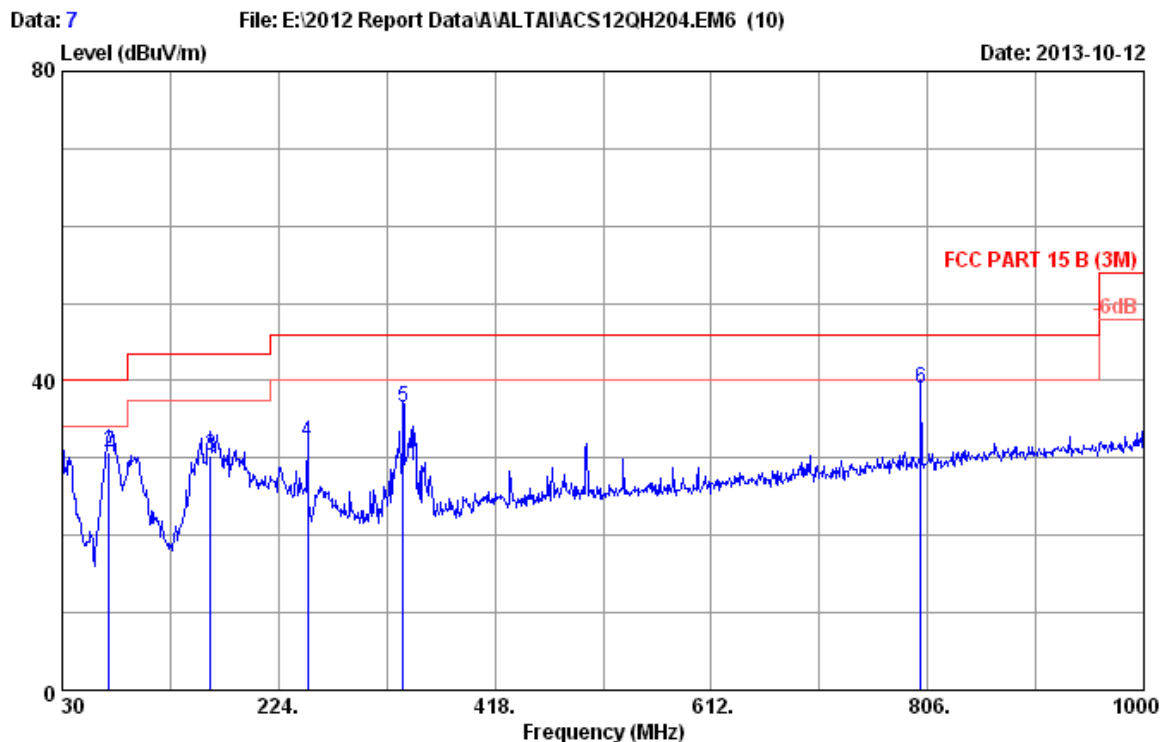
The EUT with below test mode were measured within Anechoic Chamber and the test results listed in next pages

Note: For all the emissions above 1GHz, the peak measured level comply with peak limit, so the average level were deemed to comply with average limit.

Test Date: Oct.12, 2013 Temperature: 24℃ Humidity: 56%

No.	Test Mode	Reference Test Data No.	
		Line	Neutral
1.	Running	# 9	# 10

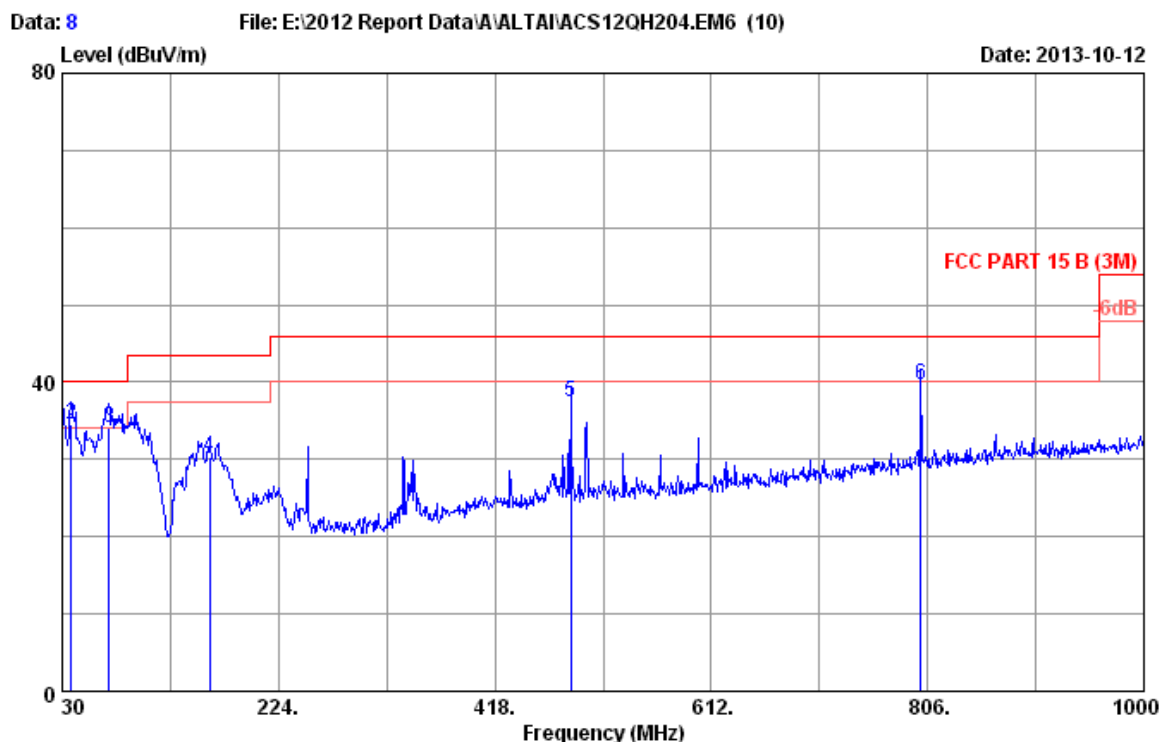
30MHz~1000MHz



Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/65% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power rating : DC 56V From Adapter Input AC 120V/60Hz
 Test Mode : Running
 M/N:WA8011N-HE

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.10	0.83	8.27	29.20	40.00	10.80	QP
2	71.710	6.89	1.29	22.50	30.68	40.00	9.32	QP
3	162.890	10.66	1.65	18.06	30.37	43.50	13.13	QP
4	250.190	13.11	1.98	16.91	32.00	46.00	14.00	QP
5	335.550	14.82	2.27	19.45	36.54	46.00	9.46	QP
6	800.180	20.90	3.61	14.58	39.09	46.00	6.91	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

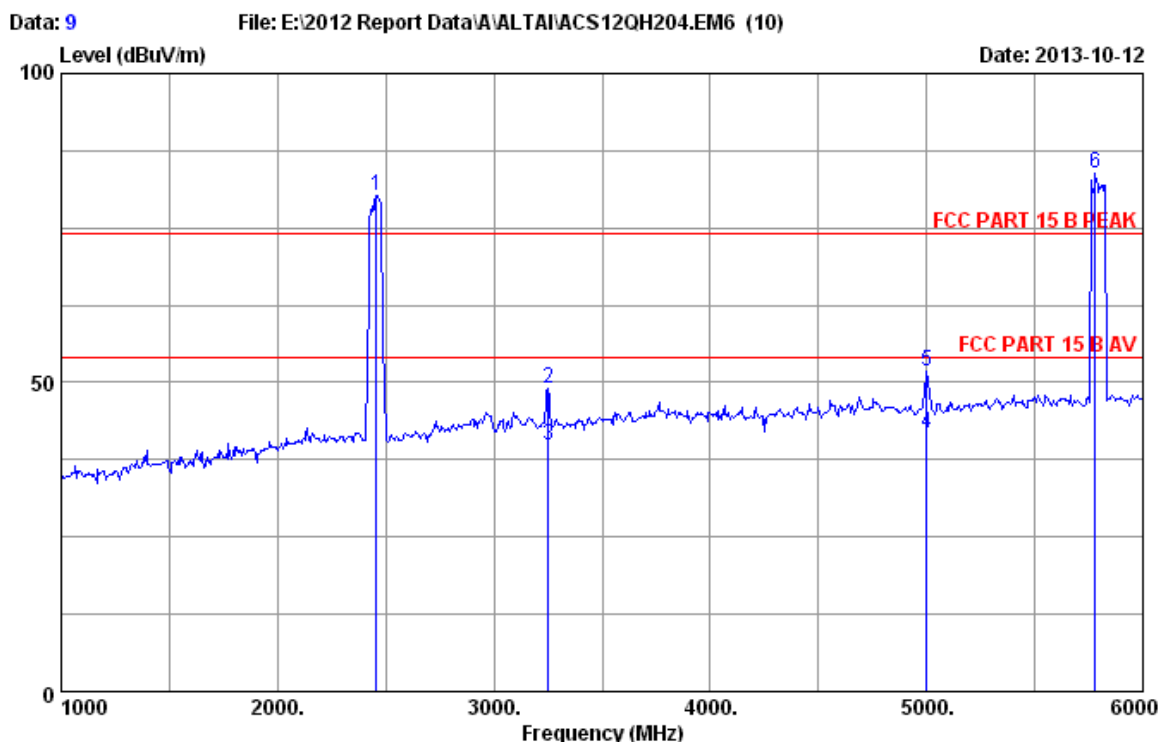


Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/65% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power rating : DC 56V From Adapter Input AC 120V/60Hz
 Test Mode : Running
 M/N:WA8011N-HE

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	30.000	20.10	0.83	13.09	34.02	40.00	5.98	QP
2	37.760	15.34	0.97	18.23	34.54	40.00	5.46	QP
3	71.710	6.89	1.29	26.00	34.18	40.00	5.82	QP
4	161.920	10.70	1.65	17.88	30.23	43.50	13.27	QP
5	485.900	17.80	2.71	17.03	37.54	46.00	8.46	QP
6	800.180	20.90	3.61	15.14	39.65	46.00	6.35	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

1GHz~6GHz



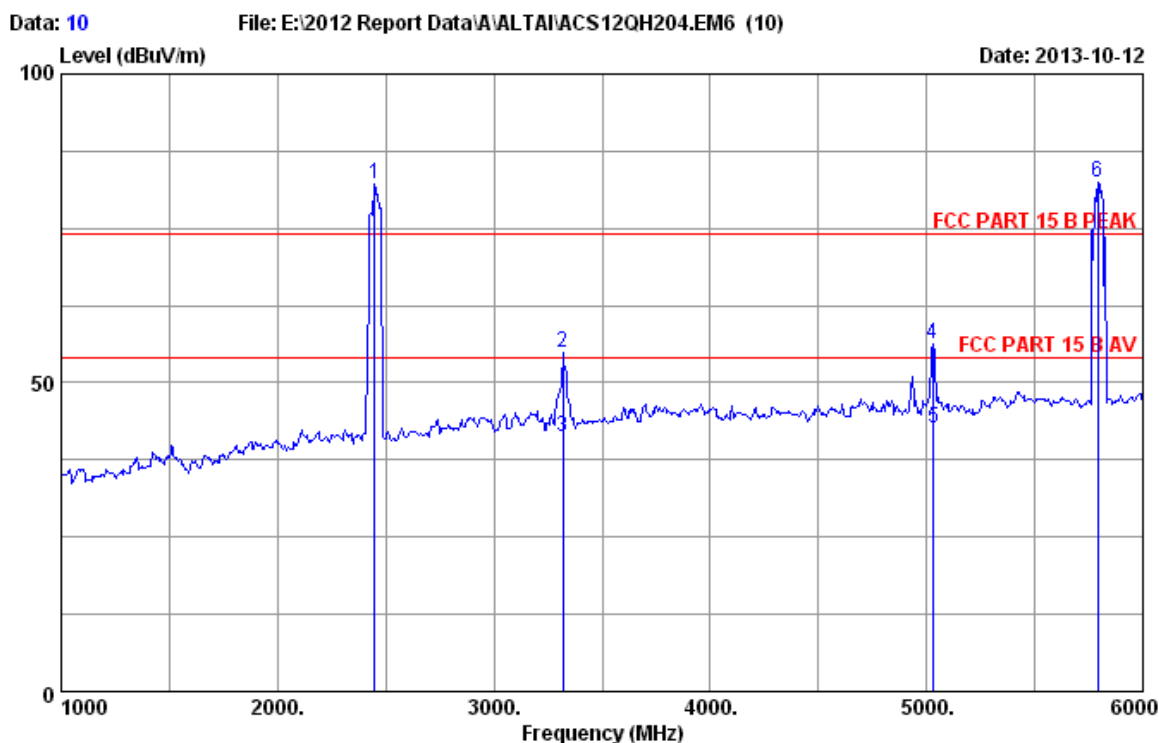
Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2013 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power Rating : DC 56V From Adapter Input AC 120V/60Hz
 Test Mode : Running
 M/N:WA8011N-HE

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2455.360	27.38	2.82	35.70	85.81	80.31	74.00	-6.31	Peak
2	3250.000	29.90	3.22	35.70	51.74	49.16	74.00	24.84	Peak
3	3251.390	29.91	3.23	35.70	42.35	39.79	54.00	14.21	Average
4	5000.864	32.90	4.23	35.70	40.28	41.71	54.00	12.29	Average
5	5001.320	32.90	4.23	35.70	50.36	51.79	74.00	22.21	Peak
6	5780.000	34.11	4.86	35.70	80.70	83.97	74.00	-9.97	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor

2. The emission levels that are 20dB below the official
 limit are not reported.

3. 2455.360MHz and 5780 is the Signal from fundament Frequency. No need to
 comply with the limit



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2013 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power Rating : DC 56V From Adapter Input AC 120V/60Hz
 Test Mode : Running
 M/N:WA8011N-HE

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2449.850	27.36	2.82	35.70	87.65	82.13	74.00	-8.13	Peak
2	3320.580	30.18	3.28	35.70	57.03	54.79	74.00	19.21	Peak
3	3321.120	30.18	3.28	35.70	43.39	41.15	54.00	12.85	Average
4	5030.000	32.97	4.25	35.70	54.63	56.15	74.00	17.85	Peak
5	5030.960	32.97	4.25	35.70	41.22	42.74	54.00	11.26	Average
6	5791.230	34.12	4.86	35.70	79.09	82.37	74.00	-8.37	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor

2. The emission levels that are 20dB below the official
 limit are not reported.

3. 2449.850MHz and 5791.230 is the Signal from fundament Frequency. No need
 to comply with the limit



5. DEVIATION TO TEST SPECIFICATIONS

[NONE]