

FCC PART 15E TEST REPORT FOR CERTIFICATION
On Behalf of

Altai Technologies Limited

Altai A8n (ac) Super WiFi Base Station

WA8011NAC-X

FCC ID: UCC-WA8011NAC-X

Prepared for : Altai Technologies Limited

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Date of Test : Feb.18~Mar.14, 2016

Date of Report : Apr.29, 2016

TABLE OF CONTENTS

Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	1-1
1.1. Description of Standards and Results	1-1
2. GENERAL INFORMATION	2-1
2.1. Description of Device (EUT)	2-1
2.2. Test Information	2-2
2.1. Tested Supporting System Details	2-2
2.2. Block diagram of connection between the EUT and simulators	2-2
2.3. Test Facility	2-3
2.4. Measurement Uncertainty (95% confidence levels, k=2)	2-3
3. POWER LINE CONDUCTED EMISSION TEST	3-1
3.1. Test Equipments	3-1
3.2. Block Diagram of Test Setup	3-1
3.3. Power Line Conducted Emission Test Limits	3-1
3.4. Configuration of EUT on Test	3-2
3.5. Operating Condition of EUT	3-2
3.6. Test Procedure	3-2
3.7. Power Line Conducted Emission Test Results	3-2
4. RADIATED EMISSION TEST	4-1
4.1. Test Equipment	4-1
4.2. Block Diagram of Test Setup	4-2
4.3. Radiated Emission Limit	4-3
4.4. EUT Configuration on Test	4-3
4.5. Operating Condition of EUT	4-4
4.6. Test Procedure	4-4
4.7. Radiated Emission Test Results	4-5
5. BAND EDGE COMPLIANCE TEST	5-1
5.1. Test Equipment	5-1
5.2. Limit	5-1
5.3. Test Produce	5-1
5.4. Test Results	5-1
6. 6dB&26dB Bandwidth Test	6-1
6.1. Test Equipment	6-1
6.2. Limit	6-1
6.3. Test Procedure	6-1
6.4. Test Results	6-1
7. OUTPUT POWER TEST	7-1
7.1. Test Equipment	7-1
7.2. Limit	7-1
7.3. Test Procedure	7-1
7.4. Test Results	7-2
8. SPECTRAL DENSITY TEST	8-1
8.1. Test Equipment	8-1
8.2. Limit	8-1
8.3. Test Procedure	8-1
8.4. Test Results	8-2
9. FREQUENCY STABILITY MEASUREMENT	9-1
9.1. Test Equipment	9-1
9.2. Limit	9-1
9.3. Test Procedure	9-1
9.4. Test Result	9-1

10.	MPE ESTIMATION	10-1
10.1.	Limit for General Population/ Uncontrolled Exposures	10-1
10.2.	Estimation Result.....	10-1
11.	ANTENNA REQUIREMENT	11-1
11.1.	Standard Applicable	11-1
11.2.	Antenna Connected Construction.....	11-1
12.	DEVIATION TO TEST SPECIFICATIONS	12-1
13.	PHOTOGRAPH OF TEST.....	13-1
13.1.	Photos of Power Line Conducted Emission Test	13-1
13.2.	Photos of Radiated Emission Test	13-2
14.	PHOTOGRAPHS OF EUT	14-1

TEST REPORT CERTIFICATION

Applicant : Altai Technologies Limited
 Manufacturer : Altai Technologies Limited
 EUT Description : Altai A8n (ac) Super WiFi Base Station
 FCC ID : UCC-WA8011NAC-X
 (A) Model No. : WA8011NAC-X
 (B) Power Supply : DC 56V
 (C) Test Voltage : DC 56V From POE Input AC 120V/60Hz

Tested for comply with:
 FCC CFR47 Part 15 Subpart E: 2014

Test procedure used:
 ANSI C63.10: 2013
 KDB789033D01

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart E requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

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 part 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 : Feb.18~Mar.14, 2016 Report of date: Apr.29, 2016

Prepared by : Cindy Zhu Reviewed by : Sunny Lu
 Cindy Zhu / Assistant Sunny Lu / Assistant Manager



Approved & Authorized Signer : David Jin
 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
Power Line Conducted Emission	FCC Part 15: 15.207	PASS
Radiated Emission	FCC Part 15: 15.209	PASS
Band Edge Compliance	FCC Part 15: 15.407	PASS
6dB&26Bandwidth Test	FCC Part 15: 15.407(a)	PASS
Output Power Test	FCC Part 15: 15.407(a)	PASS
Power Spectral Density Test	FCC Part 15: 15.407(a)	PASS
Frequency Stability	FCC Part 15: 15.407(g)	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name	: Altai A8n (ac) Super WiFi Base Station
Model No.	: WA8011NAC-X
FCC ID	: UCC-WA8011NAC-X
Radio	: IEEE802.11 a/b/g/n/ac
Operation Frequency	: IEEE 802.11a: 5745MHz—5825MHz IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz; 5745MHz—5825MHz IEEE 802.11n HT40: 2422MHz—2452MHz; 5755MHz—5795MHz IEEE 802.11ac VHT20: 5745MHz—5825MHz IEEE 802.11ac VHT40: 5755MHz—5795MHz IEEE 802.11ac VHT80: 5775MHz
Modulation Technology	: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11a/g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT20, VHT40, VHT80: OFDM(16QAM, 64QAM, 256QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM,QPSK,BPSK)
Antenna Assembly Gain	: 2.4GHz: Sector Antenna, 14dBi gain, 5GHz: Panel Antenna, 20dBi gain
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
POE	: Manufacturer: FSGREAT;M/N: GRT-560110A INPUT:AC 100-240V 50/60Hz OUTPUT:56V 1100mA
Date of Test	: Feb.18~Mar.14, 2016
Date of Receipt	: Feb.16, 2016
Sample Type	: Prototype production

2.2.Test Information

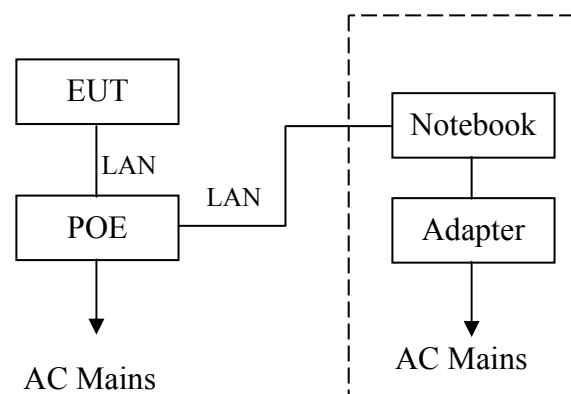
A special test software was used to control EUT work in Continuous TX mode (nearly 100% duty cycle), and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11a	6	Low :CH149	5745
	6	Middle: CH157	5785
	6	High: CH165	5825
IEEE 802.11nHT20	MCS0	Low :CH149	5745
	MCS0	Middle: CH157	5785
	MCS0	High: CH165	5825
IEEE 802.11nHT40	MCS0	Low :CH151	5755
	MCS0	High: CH159	5795
IEEE 802.11acVHT20	MCS0	Low :CH149	5745
	MCS0	Middle: CH157	5785
	MCS0	High: CH165	5825
IEEE 802.11acVHT40	MCS0	Low :CH151	5755
	MCS0	High: CH159	5795
IEEE 802.11acVHT80	MCS0	CH155	5775
Note: 1. According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.			
Note: 2. This device use MIMO Mode, test with two antenna transmit simultaneously and comply with KDB662911D01 V02r01.			

2.1.Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1	Notebook	N/A	DELL	PP09S	N/A
		Power Cord: Unshielded, Detachable, 1.8m Power Adapter: Manufacturer: DELL, M/N: LA65NS1-00 Cable: Unshielded, Detachable, 4.0m(Bond one ferrite core)			

2.2.Block diagram of connection between the EUT and simulators



(EUT: Altai A8n (ac) Super WiFi Base Station)

2.3. 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: Dec.30, 2017
3m & 10m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 794232 Valid Date: Jul.12, 2016
EMC Lab.	:	Certificated by Industry Canada Registration Number: IC 5183A-1 Valid Date: May.14, 2017
	:	Certificated by DAkkS, Germany Registration No: D-PL-12151-01-00 Valid Date: Dec.15, 2016
	:	Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2017

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

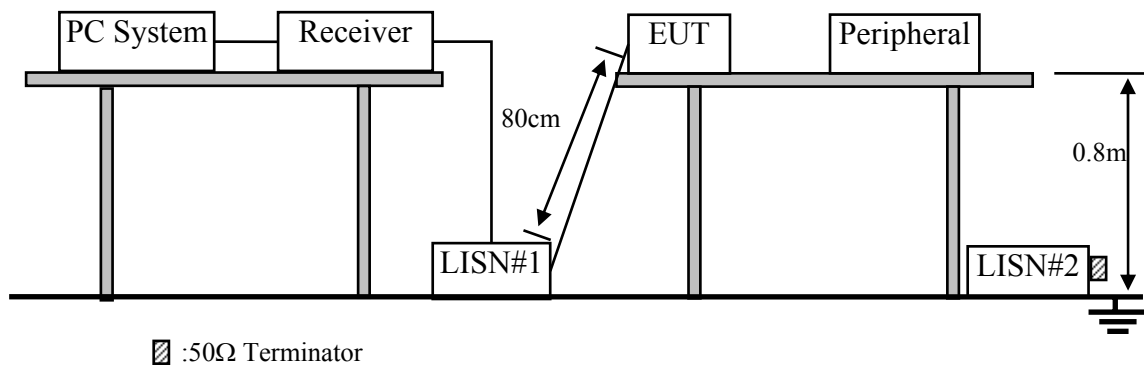
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.4dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	2.6 dB(30~200MHz, Polarization: H)
	2.6 dB(30~200MHz, Polarization: V)
	3.0 dB(200M~1GHz, Polarization: H)
	2.8 dB(200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	6.3 dB (1~6GHz, Distance: 3m)
	5.7 dB (6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.6 dB
Uncertainty for Conduction Spurious emission test	2.0 dB
Uncertainty for Output power test	0.8 dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.1 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.17,15	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCI	100842	Apr.28,15	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100429	Oct.18,15	1 Year
4.	L.I.S.N.#2	Kyoritsu	K NW-403D	8-1750-2	Apr.28,15	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	Apr.28,15	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	Apr.28,15	1 Year
7.	RF Cable	MIYAZAKI	3D-2W	No.1	Apr.28,15	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6200766906	Apr.28,15	1 Year
9.	Test Software	AUDIX	E3	6.100913a	N/A	N/A

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. Altai A8n (ac) Super WiFi Base Station (EUT)

Model Number : WA8011NAC-X
Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, 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. Turned on the power of all equipment.

3.5.3. PC run test software to control EUT work in Tx mode.

3.6.Test Procedure

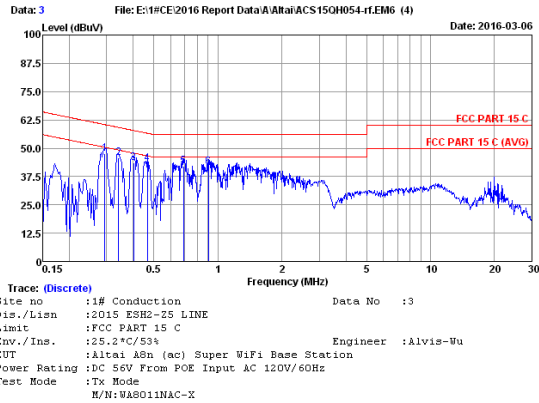
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

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

The frequency range from 150kHz to 30MHz is checked.

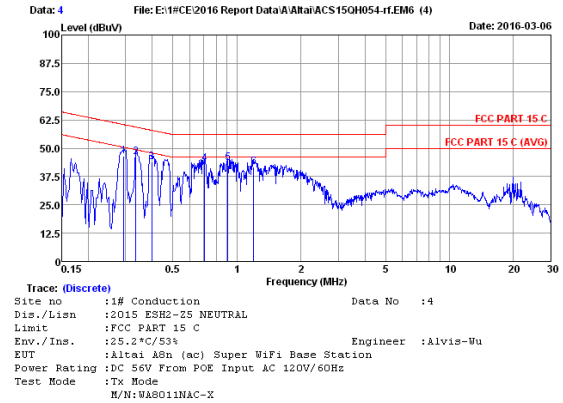
3.7.Power Line Conducted Emission Test Results

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



No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.294	0.13	0.05	47.59	47.77	60.41	12.64	QP
2	0.341	0.13	0.06	45.49	45.68	59.18	13.50	QP
3	0.402	0.79	0.06	42.75	43.60	57.81	14.21	QP
4	0.466	0.33	0.06	42.80	43.19	56.58	13.39	QP
5	0.690	0.15	0.06	41.87	42.08	56.00	13.92	QP
6	0.904	0.16	0.07	41.53	41.76	56.00	14.24	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.



No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.294	0.13	0.05	46.35	46.53	60.41	13.88	QP
2	0.335	0.13	0.06	45.85	46.04	59.31	13.27	QP
3	0.398	0.14	0.06	43.65	43.85	57.90	14.05	QP
4	0.705	0.15	0.06	43.04	43.25	56.00	12.75	QP
5	0.909	0.16	0.07	43.33	43.56	56.00	12.44	QP
6	1.197	0.17	0.08	41.27	41.52	56.00	14.48	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 30 MHz ~1000MHz (In 3m Anechoic Chamber)

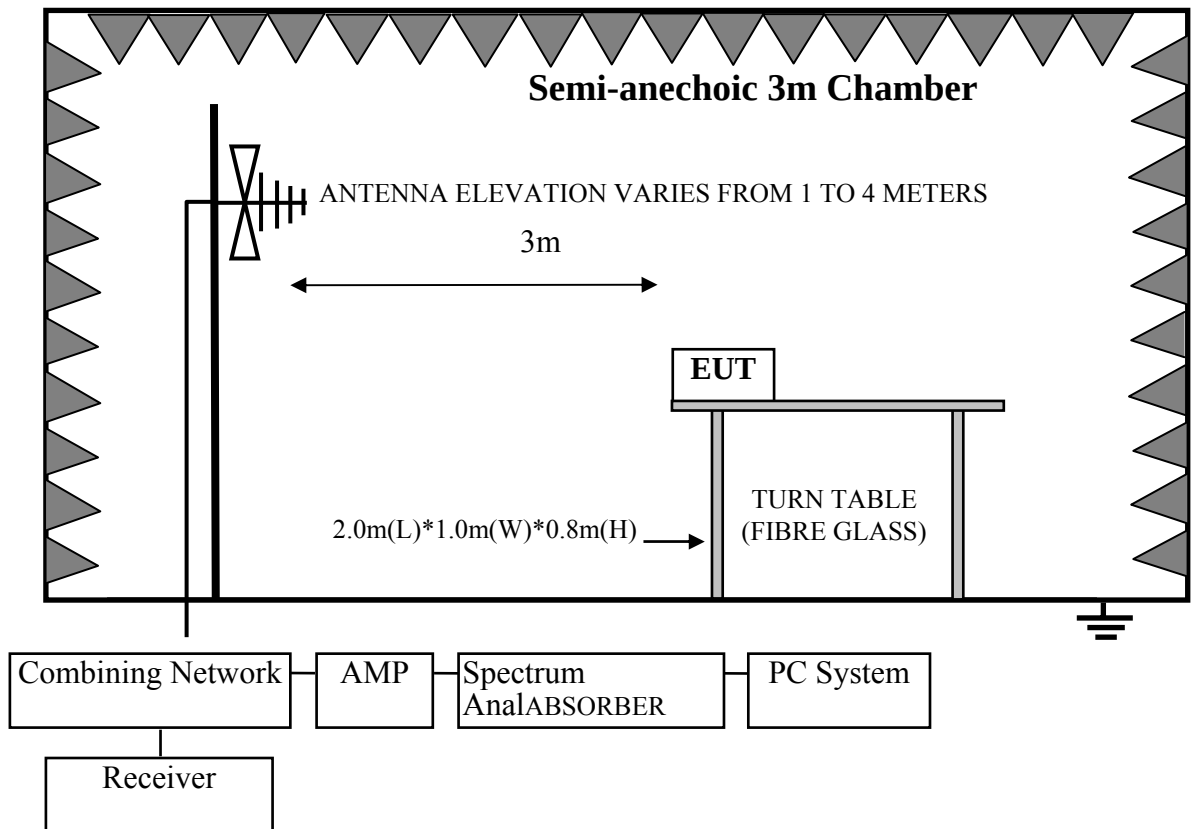
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Mar.28,15	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr.28,15	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr.28,15	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr.28,15	1 Year
5.	Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-493	May.06,15	1 Year
6.	RF Cable	MIYAZAKI	CFD400-N W(3.5M)	No.3	Apr.28,15	1 Year
7.	RF Cable	MIYAZAKI	CFD400-L W(22M)	No.7	Apr.28,15	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.28,15	1 Year
9.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

4.1.2. For frequency range 1GHz~40GHz (In 3m Anechoic Chamber)

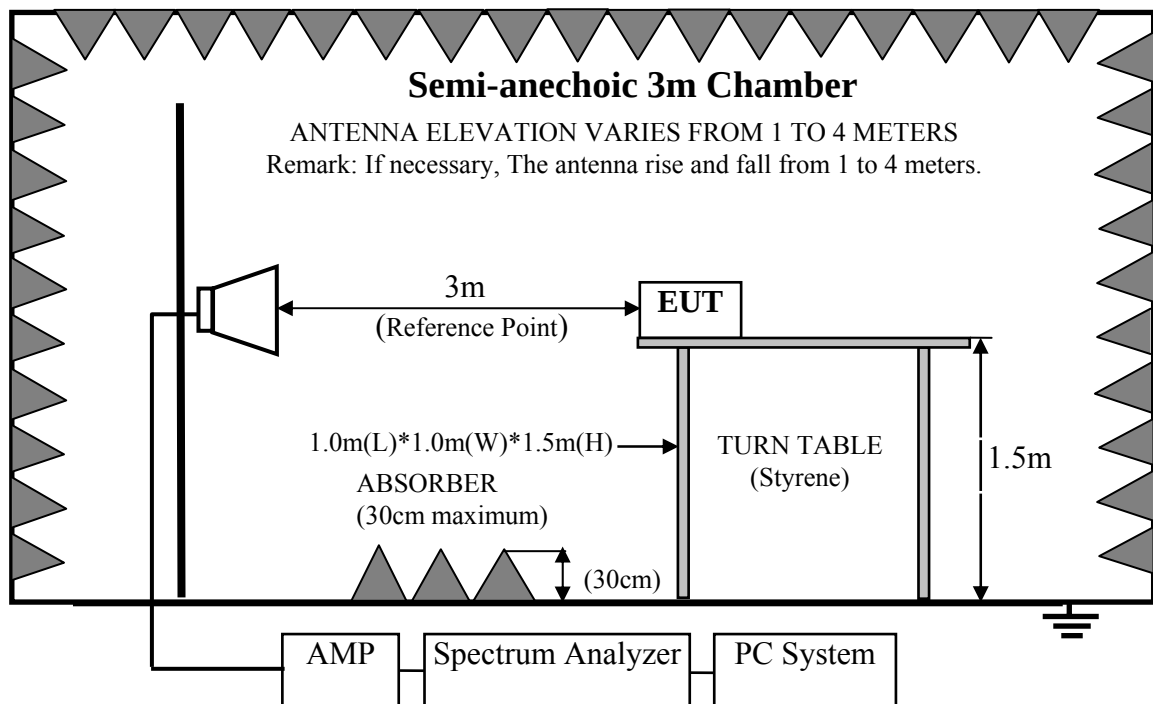
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	Apr.28,15	1 Year
2.	Horn Antenna	ETS	3115	9510-4877	Oct.15,15	1 Year
3.	Amplifier	Agilent	8449B	3008A02495	Apr.28,15	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr.28,15	1 Year
5.	Horn Antenna	ETS	3116	00060089	Oct.15,15	1 Year
6.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-40GHz



4.3.Radiated Emission Limit

For transmitters operating in the 5.15-5.25 GHz; 5.25-5.35GHz; 5.47-5.725GHz, 5.725-5.850GHz band: all emissions outside of those band shall not exceed an EIRP of -27 dBm/MHz. Unwanted emissions below 1 GHz and those emissions appearing within 15.205 restricted frequency bands must comply with the general field strength limits set forth in Section 15.209

4.3.1.15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

- Remarks :
- (1) Emission level dBμV = 20 log Emission level μV/m
 - (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.

4.3.2.15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

4.4.EUT Configuration 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.

4.4.1. Altai A8n (ac) Super WiFi Base Station (EUT)

Model Number : WA8011NAC-X

Serial Number : N/A

4.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turn on the power of all equipments.

4.5.3. Let EUT work in Tx mode.

4.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)*2.4m(W)*0.3m(H) on the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horn antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2013 on radiated emission Test.

For emissions below 1GHz and those emissions appearing within 15.205 restricted frequency bands use below procedure:

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 VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

For the emissions above 1GHz and not appearing within 15.205 restricted frequency bands use below procedure:

- (1). The maximum emission at 3m distance was measured and recorded with receive antenna in both vertical and horizontal by rotating the turntable and by lowering the receive antenna.
- (2). The EUT was then removed and replaced with a substitution antenna in the same position and the substitution antenna must have the same polarization with the receive antenna.
- (3). A signal which have the same frequency obtained in step 2 was fed to the substitution, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver, the level of the signal generator was adjusted until the measured field strength level in step 2 was obtained, recorded the level of the signal generator.
- (4). Repeated step 4 with both antenna polarizations
- (5). The spurious emissions is equal to the power supplied by the signal generator and corrections due to the gain of the substitution antenna and the cable loss between the signal generator and the substitution antenna. or use procedure (6).
- (6). Per KDB789033 clause H 2)d). if the test distance is 3m, the $EIRP(dBm) = E(dB\mu V/m) - 95.2$ Get the result of all unwanted emission outside the restricted band is less than the -27dBm/MHz.

We had checked frequency range that is 30MHz to 10th harmonic (40GHz) and no any emissions were found from 18GHz to 40GHz, so the radiated emission from 18GHz to 40GHz were not record.

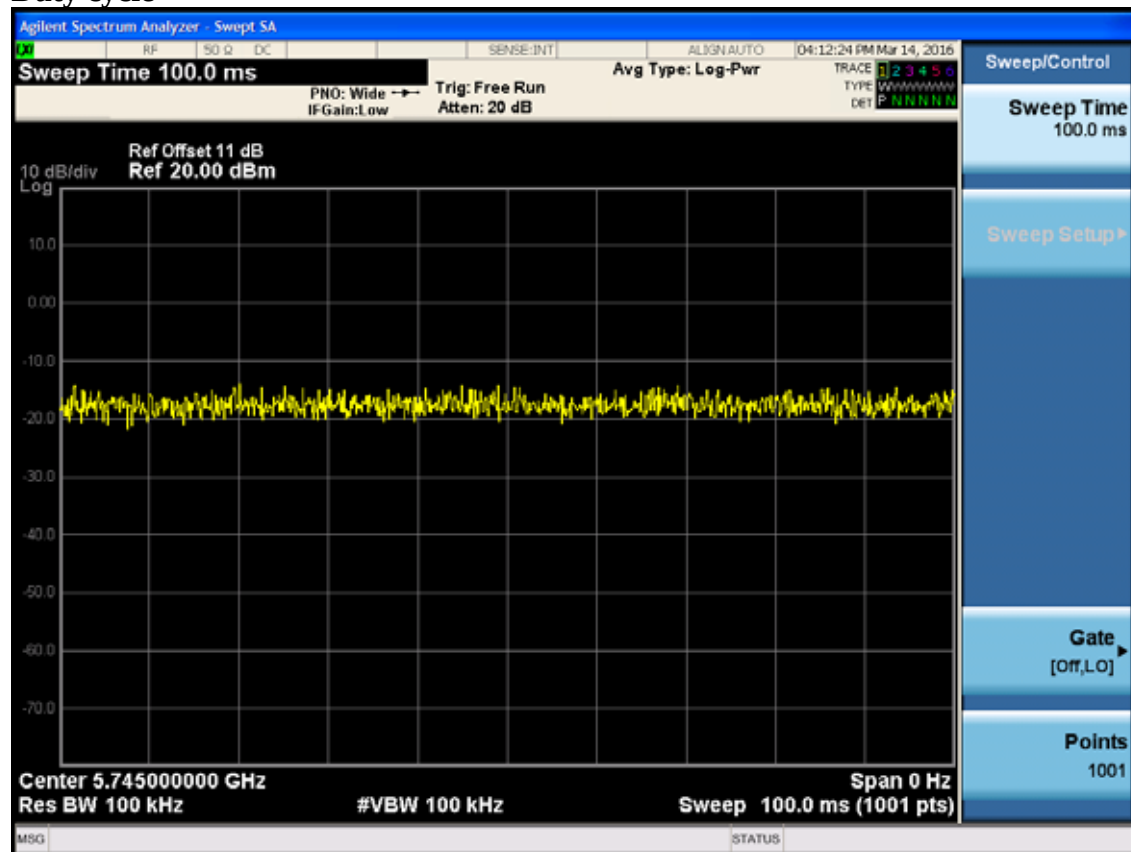
4.7. Radiated Emission Test Results

PASS.

All the emissions from 30MHz to 1 GHz were comply with 15.209 limits.

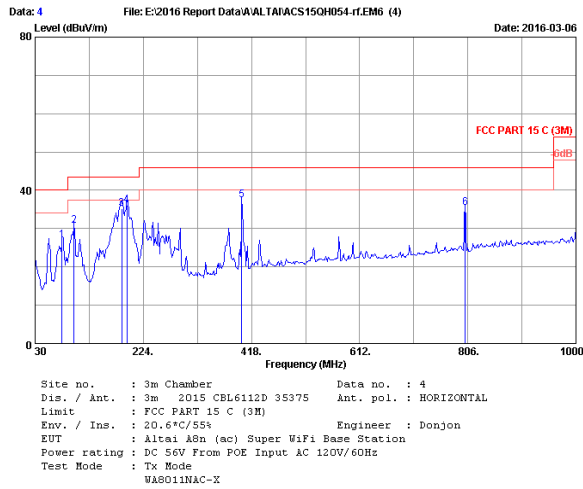
All other emission comply with 15.407 (b)(1) requirements.

Duty cycle



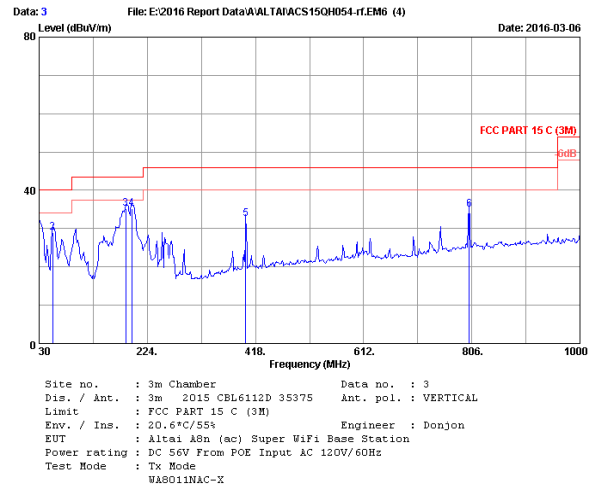
Note: The Duty Cycle is close to 100%.

Frequency: 30MHz~1GHz



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	78.500	7.69	0.98	18.21	26.88	40.00	13.12	QP
2	99.840	11.50	1.10	18.18	30.78	43.50	12.72	QP
3	185.200	10.15	1.43	23.54	35.12	43.50	8.38	QP
4	194.900	10.45	1.49	24.12	36.06	43.50	7.44	QP
5	400.540	16.91	2.20	18.29	37.40	46.00	8.60	QP
6	801.150	21.11	3.26	11.05	35.42	46.00	10.58	QP

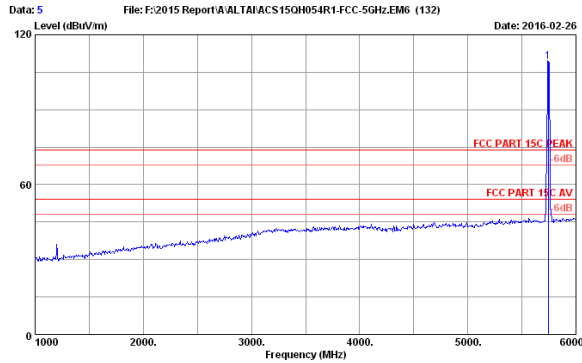
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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	20.30	0.51	9.49	30.30	40.00	9.70	QP
2	54.250	8.48	0.85	19.71	29.04	40.00	10.96	QP
3	185.200	10.15	1.43	23.64	35.22	43.50	8.28	QP
4	195.870	10.48	1.49	23.28	35.25	43.50	8.25	QP
5	400.540	16.91	2.20	13.51	32.62	46.00	13.38	QP
6	801.150	21.11	3.26	10.70	35.07	46.00	10.93	QP

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

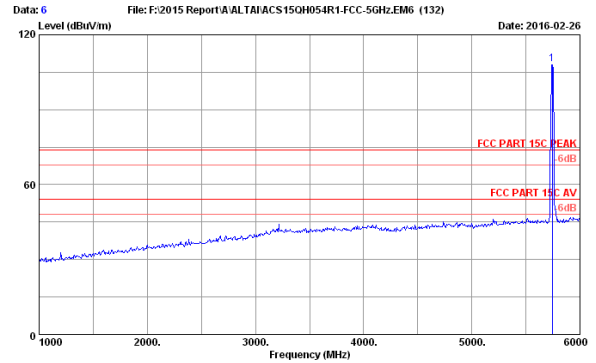
Frequency: 1GHz~18GHz



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5745MHz Tx
 WA8011NAC-X

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	5745.000	34.55	9.90	35.11	99.88	109.22	74.00	-35.22	Peak

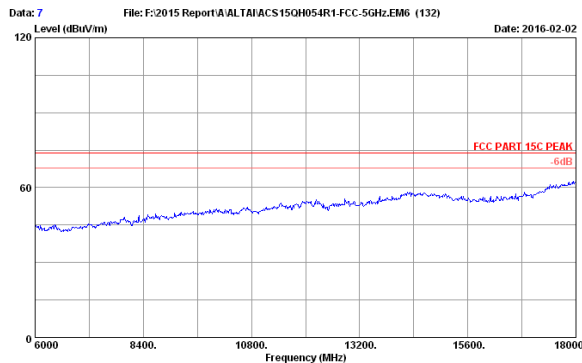
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



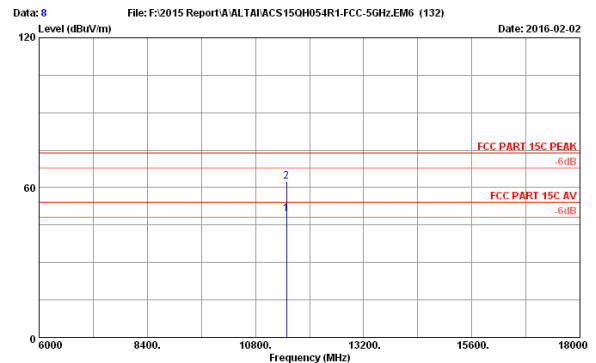
Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5745MHz Tx
 WA8011NAC-X

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	5745.000	34.55	9.90	35.11	98.86	108.20	74.00	-34.20	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.



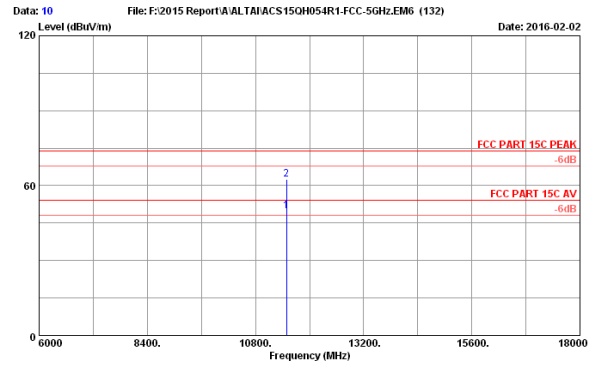
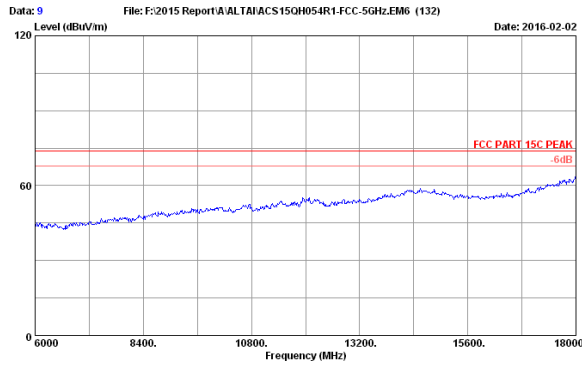
Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5745MHz Tx
 WA8011NAC-X



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5745MHz Tx
 WA8011NAC-X

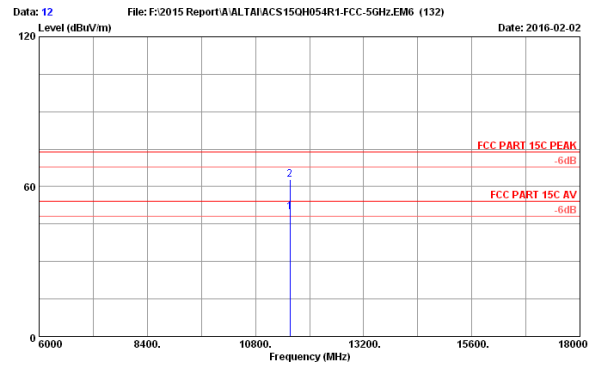
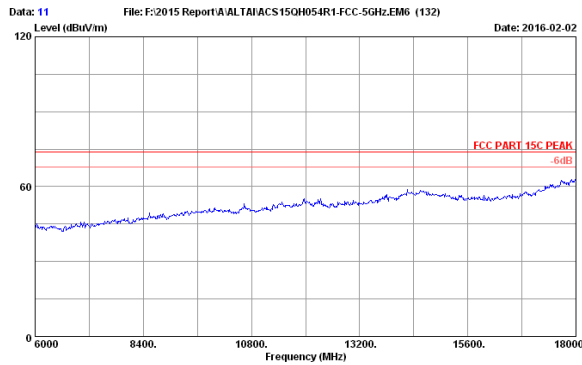
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11490.000	39.09	14.54	35.33	31.07	49.37	54.00	4.63	Average
2	11490.000	39.09	14.54	35.33	44.26	62.56	74.00	11.44	Peak

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.



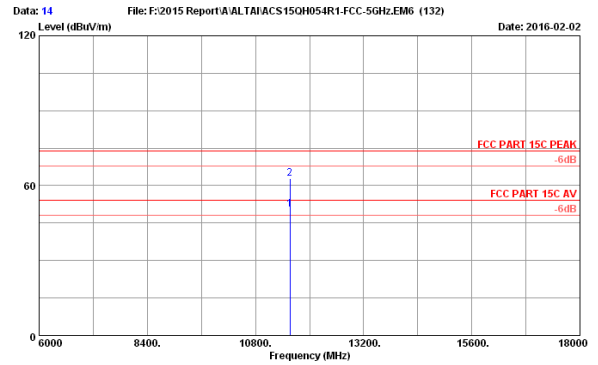
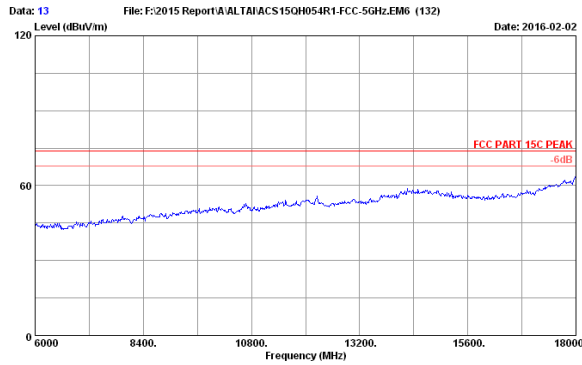
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11490.000	39.09	14.54	35.33	31.47	49.77	54.00	4.23	Average
2	11490.000	39.09	14.54	35.33	44.27	62.57	74.00	11.43	Peak

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.



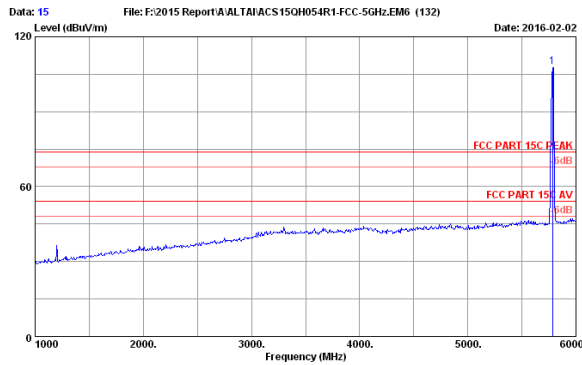
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11570.000	39.14	14.60	35.31	31.48	49.91	74.00	24.09	Average
2	11570.000	39.14	14.60	35.31	44.26	62.69	74.00	11.31	Peak

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.



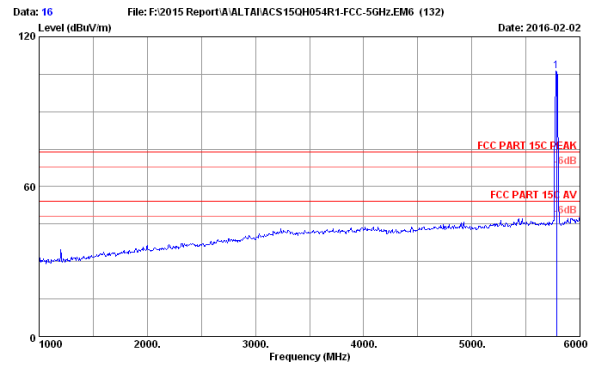
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11570.000	39.14	14.60	35.31	32.04	50.47	54.00	3.53	Average
2	11570.000	39.14	14.60	35.31	44.26	62.69	74.00	11.31	Peak

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.



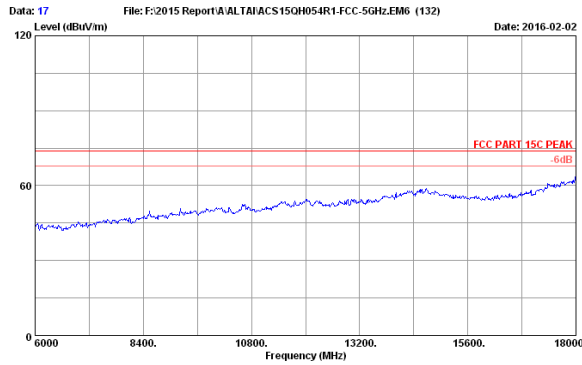
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.000	34.57	9.91	35.10	98.65	108.03	74.00	-34.03	Peak

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.

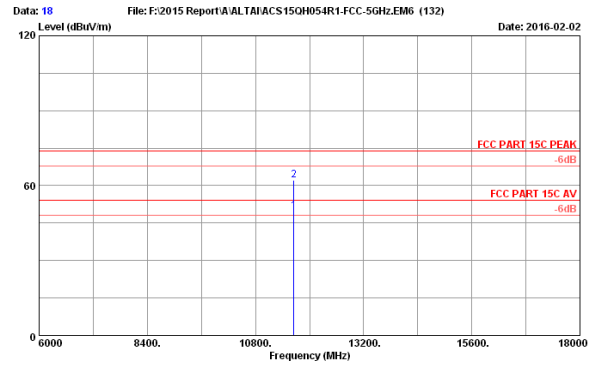


No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.000	34.57	9.91	35.10	96.85	106.23	74.00	-32.23	Peak

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.



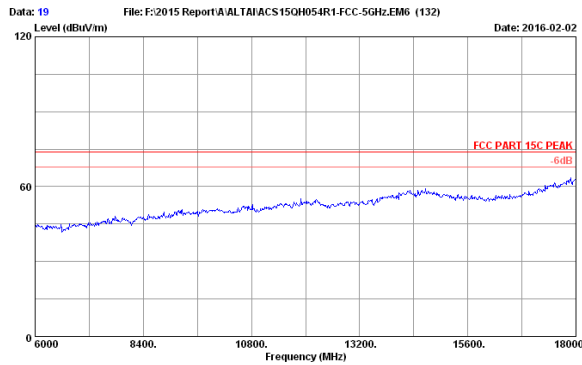
Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5825MHz Tx
 WA8011NAC-X



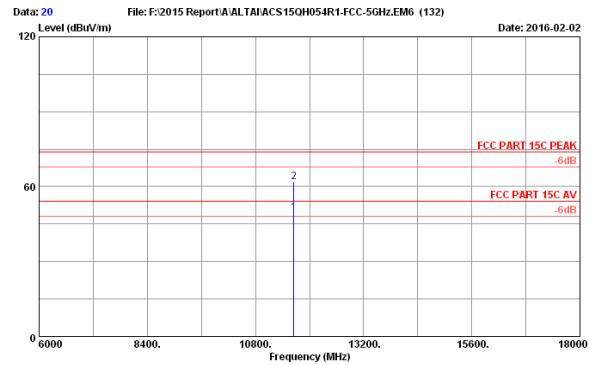
Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5825MHz Tx
 WA8011NAC-X

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	11650.000	39.19	14.66	35.29	31.34	49.90	54.00	4.10	Average
2	11650.000	39.19	14.66	35.29	43.76	62.32	74.00	11.68	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.



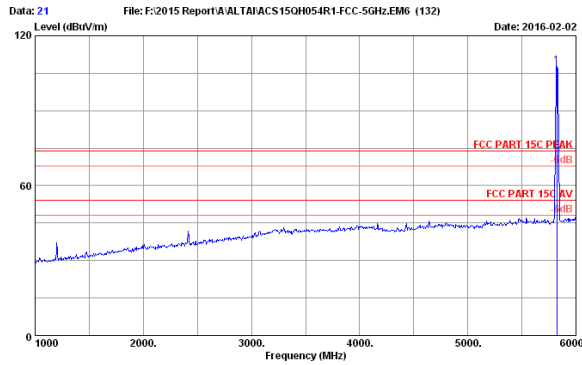
Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5825MHz Tx
 WA8011NAC-X



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5825MHz Tx
 WA8011NAC-X

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	11650.000	39.19	14.66	35.29	30.89	49.45	54.00	4.55	Average
2	11650.000	39.19	14.66	35.29	43.26	61.82	74.00	12.18	Peak

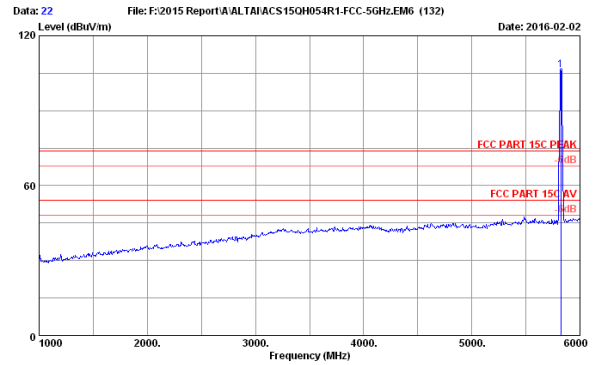
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5825MHz Tx
 WA8011NAC-X

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.000	34.60	9.93	35.08	98.59	108.04	74.00	-34.04	Peak

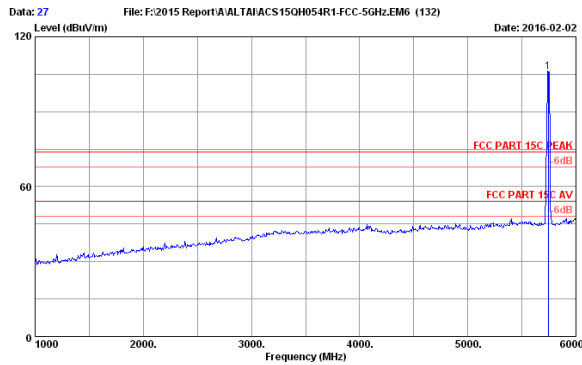
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5825MHz Tx
 WA8011NAC-X

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.000	34.60	9.93	35.08	96.89	106.34	74.00	-32.34	Peak

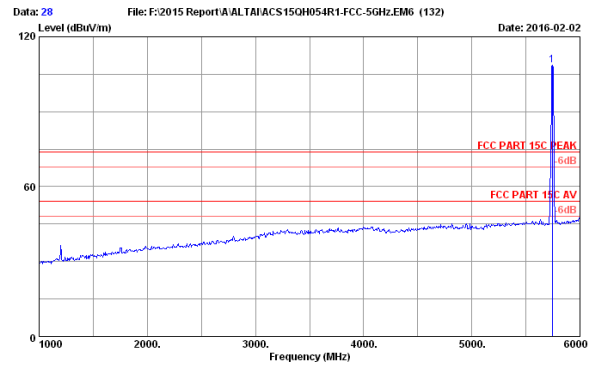
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5745MHz Tx
 WA8011NAC-X

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.000	34.55	9.90	35.11	96.77	106.11	74.00	-32.11	Peak

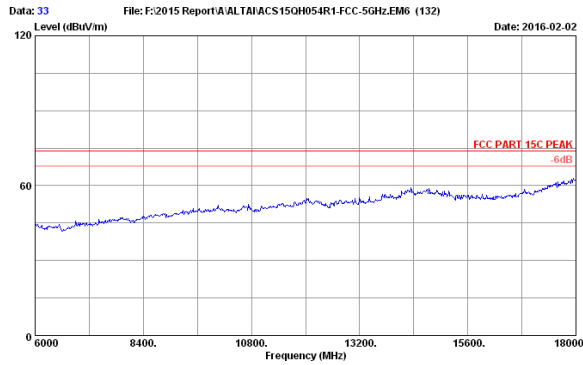
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



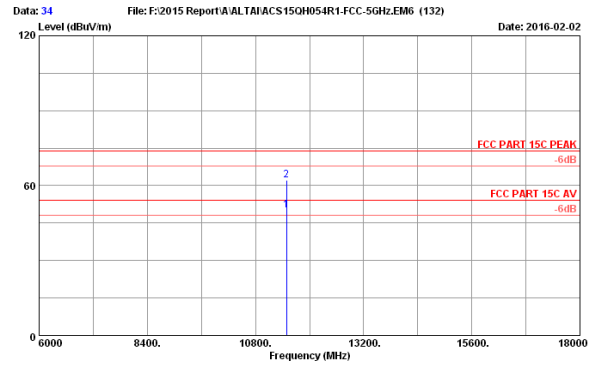
Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5745MHz Tx
 WA8011NAC-X

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.000	34.55	9.90	35.11	99.25	108.59	74.00	-34.59	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.



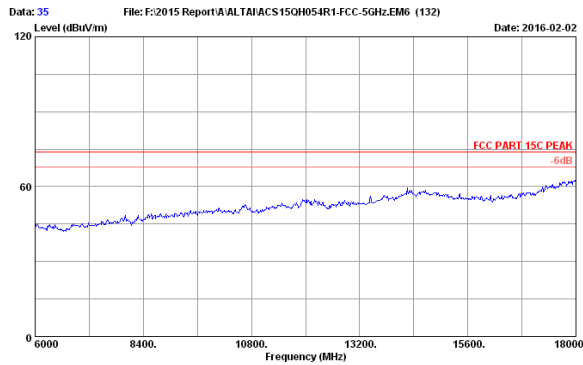
Site no. : 3m Chamber Data no. : 33
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5745MHz Tx
 WA8011NAC-X



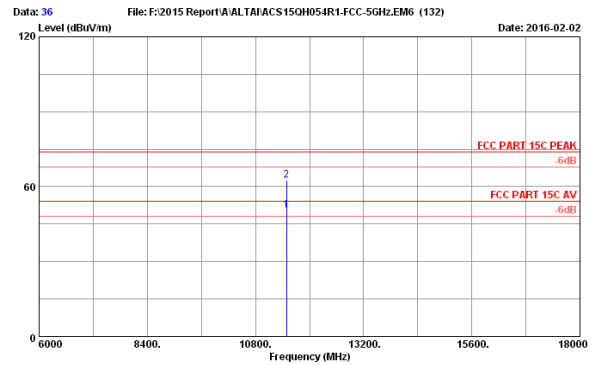
Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5745MHz Tx
 WA8011NAC-X

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	11490.000	39.09	14.54	35.33	31.75	50.05	54.00	3.95	Average
2	11490.000	39.09	14.54	35.33	43.87	62.17	74.00	11.83	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.



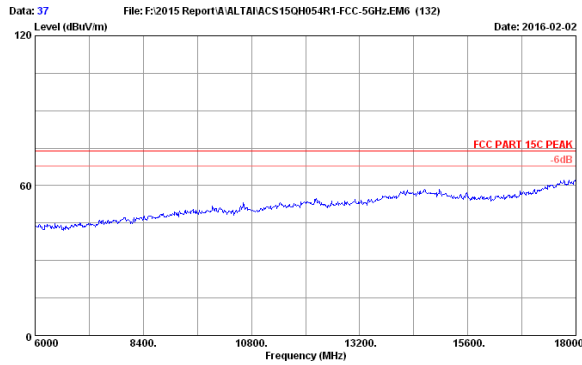
Site no. : 3m Chamber Data no. : 35
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5745MHz Tx
 WA8011NAC-X



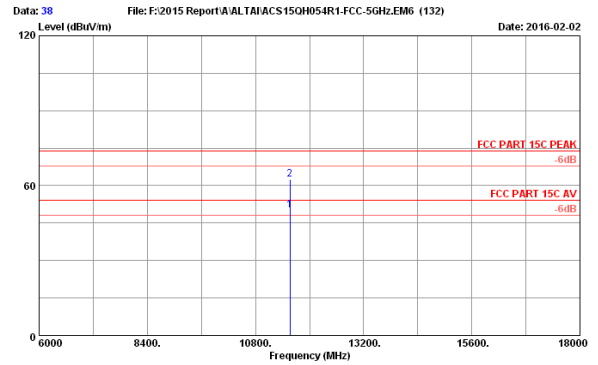
Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5745MHz Tx
 WA8011NAC-X

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	11490.000	39.09	14.54	35.33	32.05	50.35	54.00	3.65	Average
2	11490.000	39.09	14.54	35.33	44.07	62.37	74.00	11.63	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.



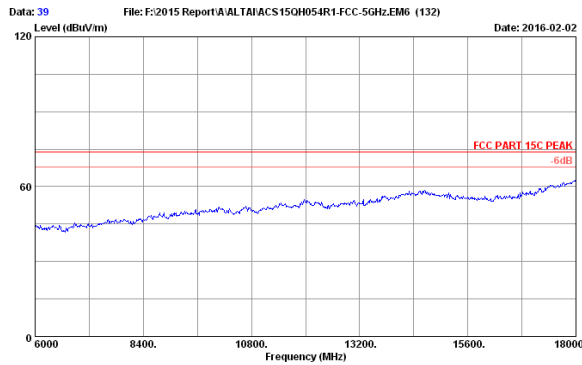
Site no. : 3m Chamber Data no. : 37
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5785MHz Tx
 WA8011NAC-X



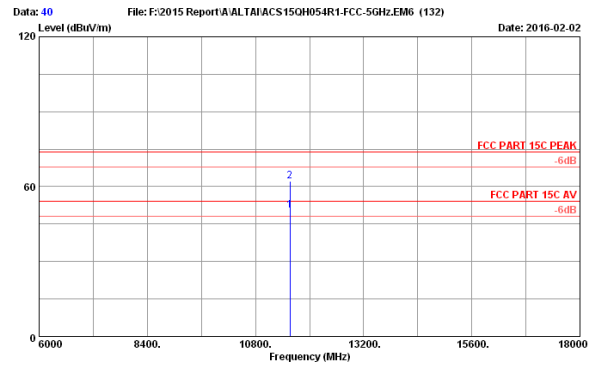
Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5785MHz Tx
 WA8011NAC-X

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	11570.000	39.14	14.60	35.31	31.56	49.99	54.00	4.01	Average
2	11570.000	39.14	14.60	35.31	44.03	62.46	74.00	11.54	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.



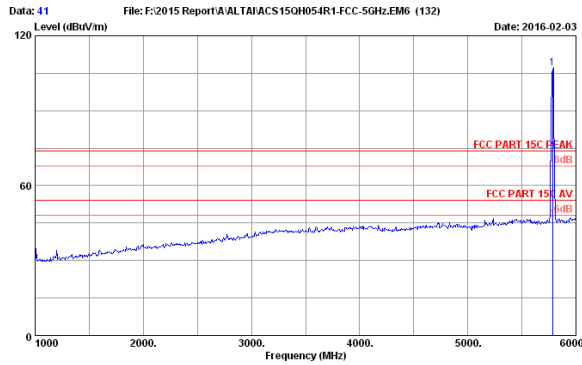
Site no. : 3m Chamber Data no. : 39
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5785MHz Tx
 WA8011NAC-X



Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5785MHz Tx
 WA8011NAC-X

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	11570.000	39.14	14.60	35.31	32.04	50.47	54.00	3.53	Average
2	11570.000	39.14	14.60	35.31	43.58	62.01	74.00	11.99	Peak

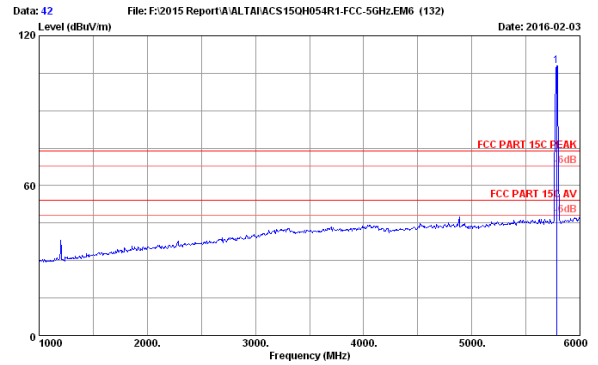
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 41
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5785MHz Tx
 WA8011NAC-X

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	5785.000	34.57	9.91	35.10	97.56	106.94	74.00	-32.94	Peak

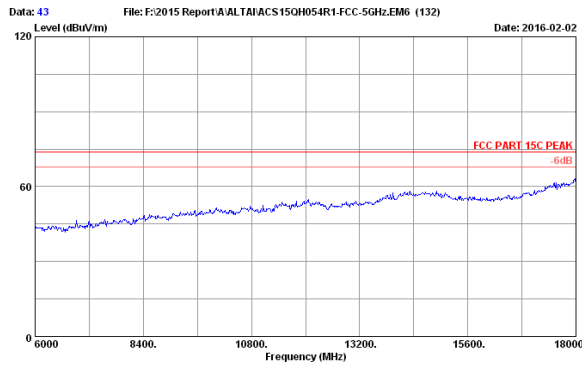
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5785MHz Tx
 WA8011NAC-X

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	5785.000	34.57	9.91	35.10	98.59	107.97	74.00	-33.97	Peak

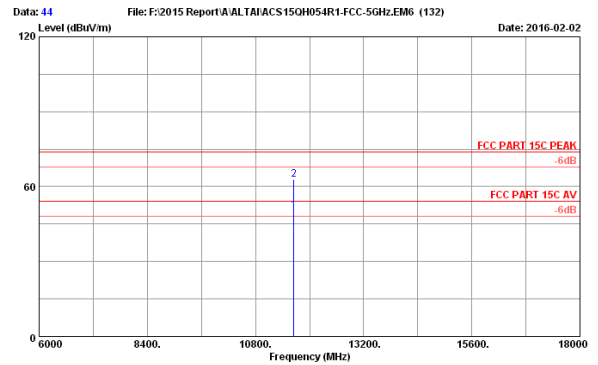
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5825MHz Tx
 WA8011NAC-X

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	11650.000	39.19	14.66	35.29	31.86	50.42	54.00	3.58	Average
2	11650.000	39.19	14.66	35.29	44.23	62.79	74.00	11.21	Peak

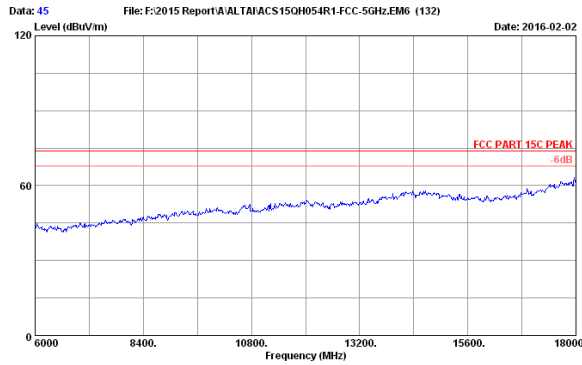
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



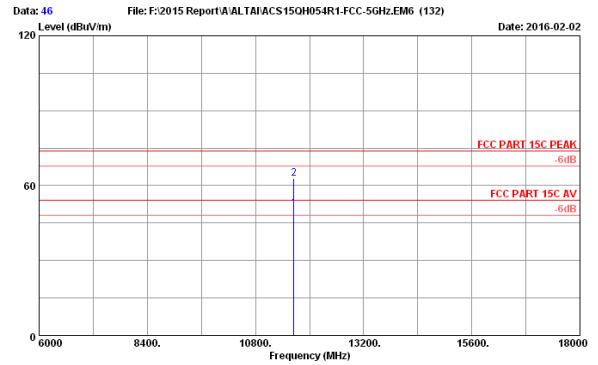
Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5825MHz Tx
 WA8011NAC-X

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	11650.000	39.19	14.66	35.29	31.86	50.42	54.00	3.58	Average
2	11650.000	39.19	14.66	35.29	44.23	62.79	74.00	11.21	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.



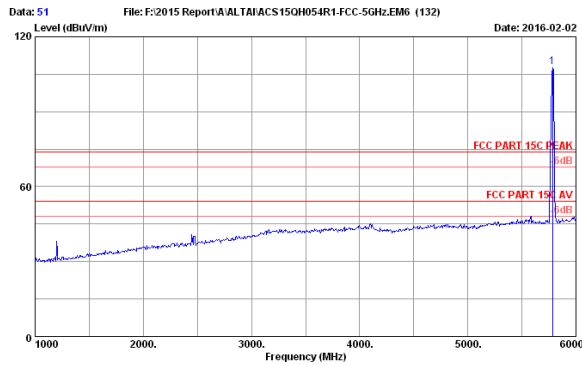
Site no. : 3m Chamber Data no. : 45
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5825MHz Tx
 WA8011NAC-X



Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5825MHz Tx
 WA8011NAC-X

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	11650.000	39.19	14.66	35.29	32.41	50.97	54.00	3.03	Average
2	11650.000	39.19	14.66	35.29	44.28	62.84	74.00	11.16	Peak

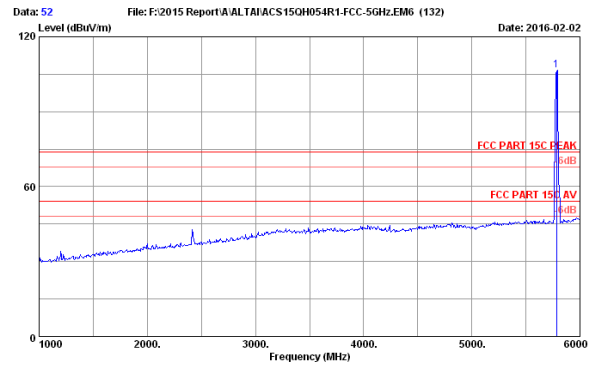
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 51
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5825MHz Tx
 WA8011NAC-X

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	5785.000	34.57	9.91	35.10	98.69	108.07	74.00	-34.07	Peak

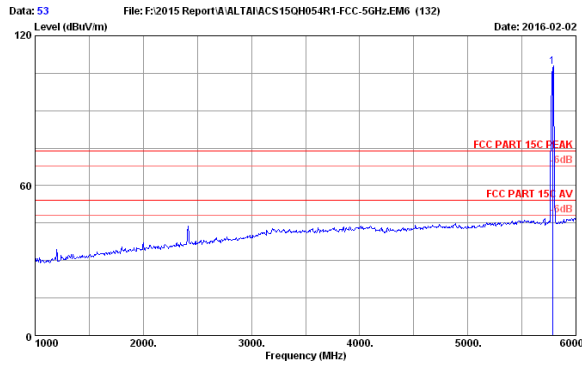
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5825MHz Tx
 WA8011NAC-X

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	5785.000	34.57	9.91	35.10	97.26	106.64	74.00	-32.64	Peak

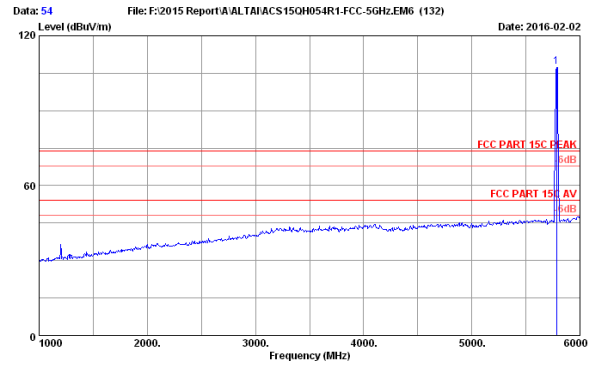
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5785MHz Tx
 WA8011NAC-X

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	5785.000	34.57	9.91	35.10	98.31	107.69	74.00	-33.69	Peak

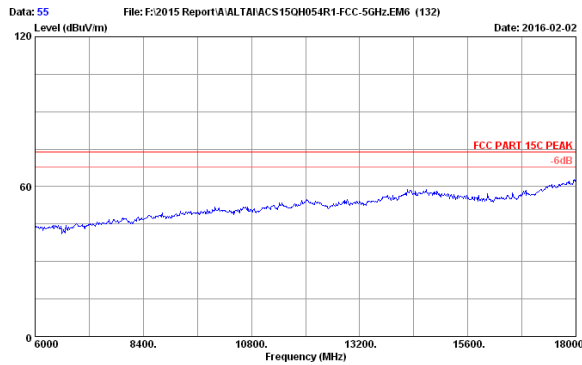
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5785MHz Tx
 WA8011NAC-X

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	5785.000	34.57	9.91	35.10	98.29	107.67	74.00	-33.67	Peak

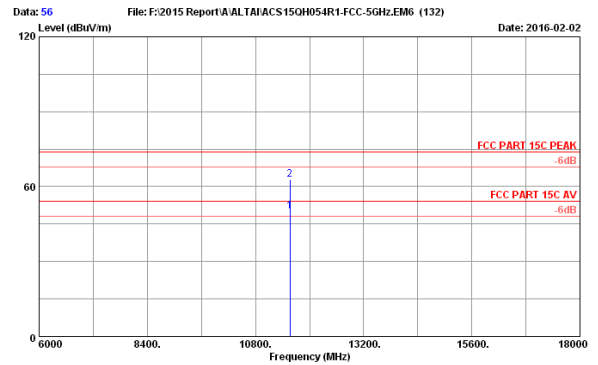
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5785MHz Tx
 WA8011NAC-X

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	11570.000	39.14	14.60	35.31	31.85	50.28	54.00	3.72	Average
2	11570.000	39.14	14.60	35.31	44.26	62.69	74.00	11.31	Peak

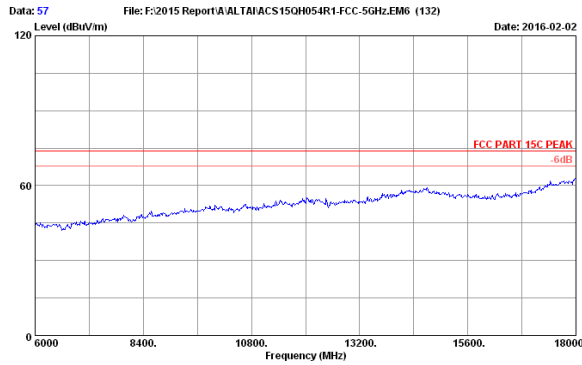
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



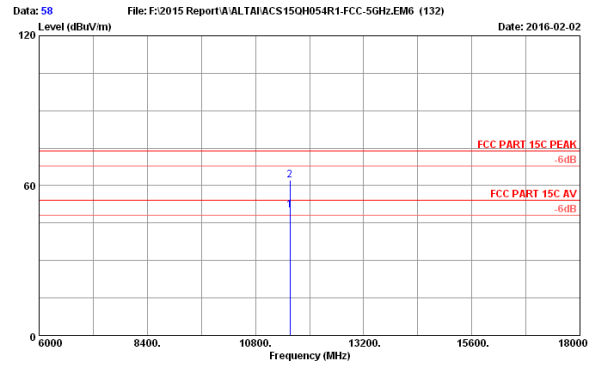
Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5785MHz Tx
 WA8011NAC-X

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	11570.000	39.14	14.60	35.31	31.85	50.28	54.00	3.72	Average
2	11570.000	39.14	14.60	35.31	44.26	62.69	74.00	11.31	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.



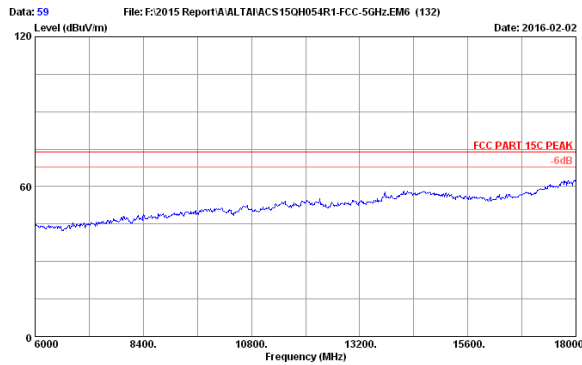
Site no. : 3m Chamber Data no. : 57
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5785MHz Tx
 WA8011NAC-X



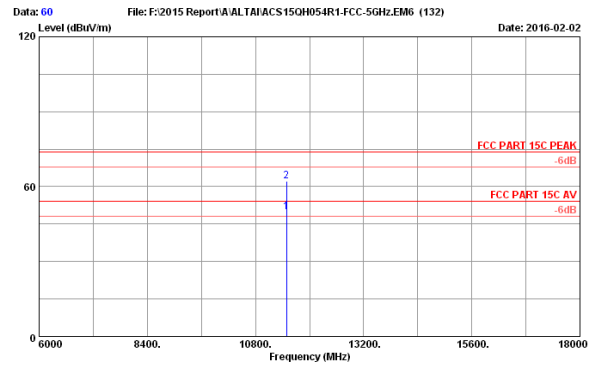
Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5785MHz Tx
 WA8011NAC-X

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	11570.000	39.14	14.60	35.31	31.86	50.29	54.00	3.71	Average
2	11570.000	39.14	14.60	35.31	43.89	62.32	74.00	11.68	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.



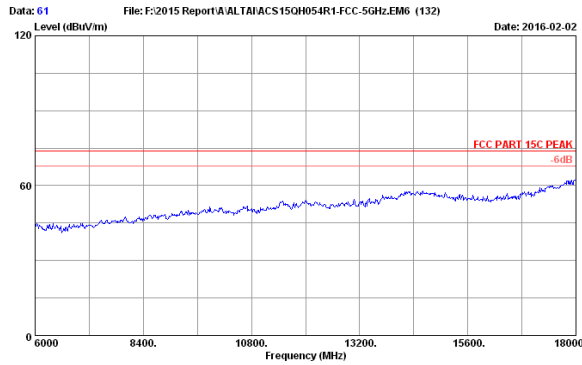
Site no. : 3m Chamber Data no. : 59
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5745MHz Tx
 WA8011NAC-X



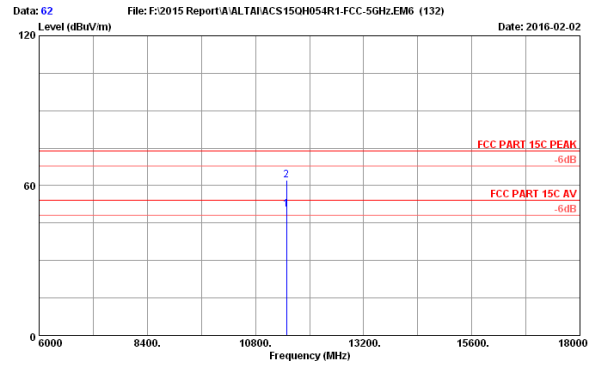
Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5745MHz Tx
 WA8011NAC-X

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	11490.000	39.09	14.54	35.33	31.46	49.76	54.00	4.24	Average
2	11490.000	39.09	14.54	35.33	43.86	62.16	74.00	11.84	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.



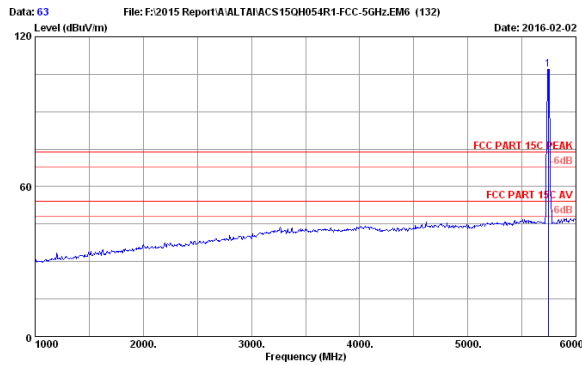
Site no. : 3m Chamber Data no. : 61
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5745MHz Tx
 WA8011NAC-X



Site no. : 3m Chamber Data no. : 62
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5745MHz Tx
 WA8011NAC-X

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	11490.000	39.09	14.54	35.33	32.16	50.46	54.00	3.54	Average
2	11490.000	39.09	14.54	35.33	44.04	62.34	74.00	11.66	Peak

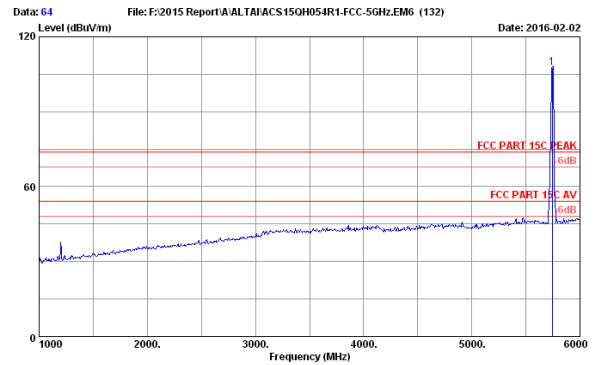
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 63
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5745MHz Tx
 WA8011NAC-X

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	5745.000	34.55	9.90	35.11	97.58	106.92	74.00	-32.92	Peak

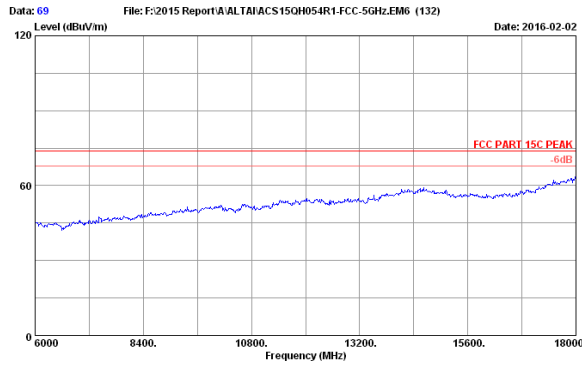
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



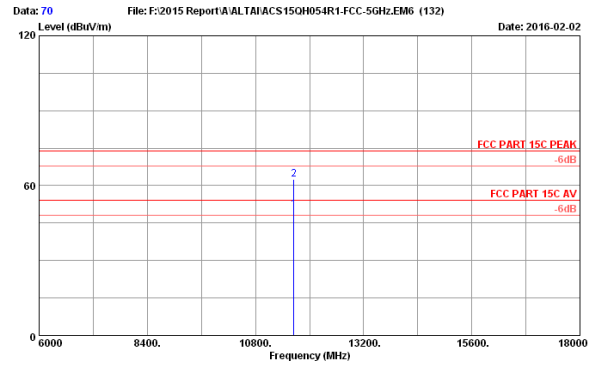
Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5745MHz Tx
 WA8011NAC-X

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	5745.000	34.55	9.90	35.11	98.25	107.59	74.00	-33.59	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.



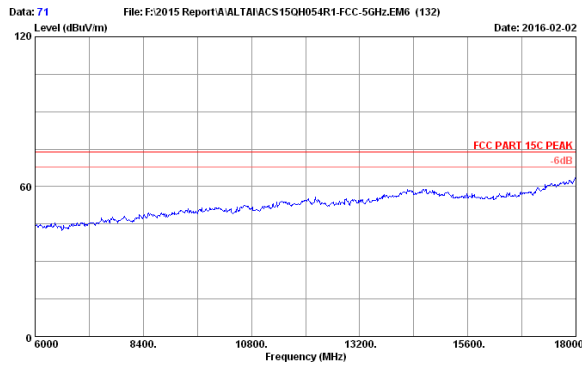
Site no. : 3m Chamber Data no. : 69
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5825MHz Tx
 WA8011NAC-X



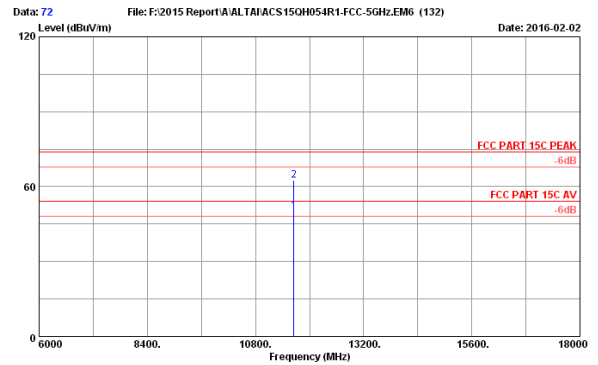
Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5825MHz Tx
 WA8011NAC-X

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	11650.000	39.19	14.66	35.29	31.89	50.45	54.00	3.55	Average
2	11650.000	39.19	14.66	35.29	43.78	62.34	74.00	11.66	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.



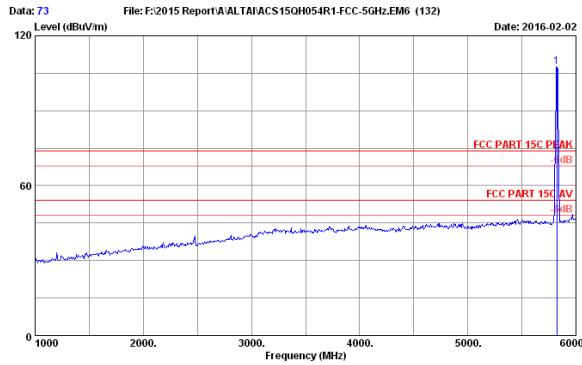
Site no. : 3m Chamber Data no. : 71
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5825MHz Tx
 WA8011NAC-X



Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5825MHz Tx
 WA8011NAC-X

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	11650.000	39.19	14.66	35.29	31.42	49.98	54.00	4.02	Average
2	11650.000	39.19	14.66	35.29	43.85	62.41	74.00	11.59	Peak

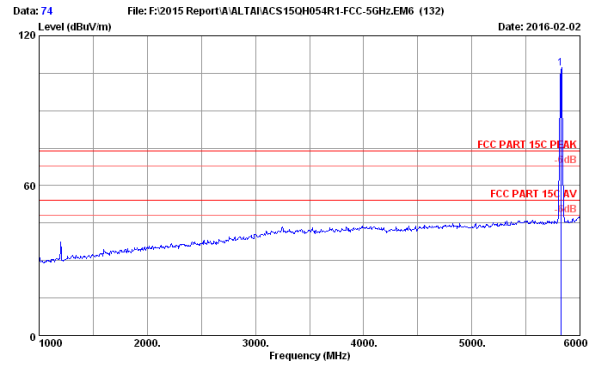
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5825MHz Tx
 WA8011NAC-X

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	5825.000	34.60	9.93	35.08	98.23	107.68	74.00	-33.68	Peak

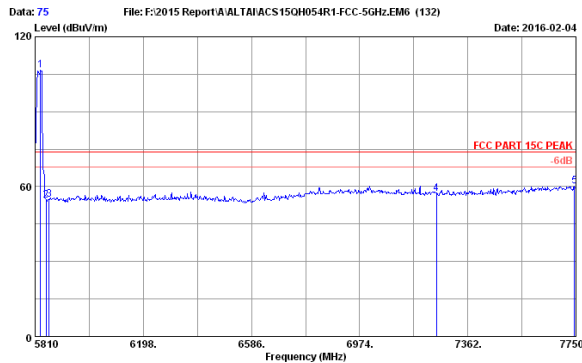
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5825MHz Tx
 WA8011NAC-X

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	5825.000	34.60	9.93	35.08	97.59	107.04	74.00	-33.04	Peak

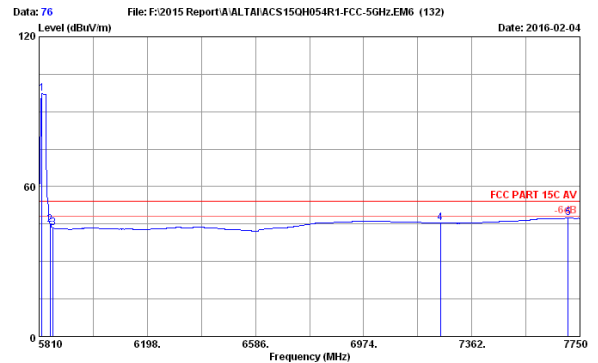
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5825MHz Tx
 WA8011NAC-X

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	5829.400	34.60	9.94	35.08	97.03	106.49	74.00	-32.49	Peak
2	5850.000	34.61	9.95	35.07	45.01	54.50	74.00	19.50	Peak
3	5860.000	34.62	9.95	35.07	45.32	54.82	74.00	19.18	Peak
4	7249.480	36.10	10.74	35.50	45.67	57.01	74.00	16.99	Peak
5	7744.180	36.85	11.22	35.70	47.92	60.29	74.00	13.71	Peak

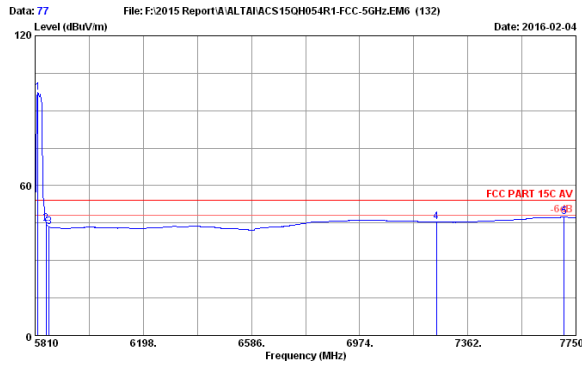
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5825MHz Tx
 WA8011NAC-X

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	5819.700	34.59	9.93	35.08	87.96	97.40	54.00	-43.40	Average
2	5850.000	34.61	9.95	35.07	35.32	44.81	54.00	9.19	Average
3	5860.000	34.62	9.95	35.07	34.01	43.51	54.00	10.49	Average
4	7250.000	36.10	10.74	35.50	34.17	45.51	54.00	8.49	Average
5	7707.320	36.82	11.18	35.68	35.02	47.34	54.00	6.66	Average

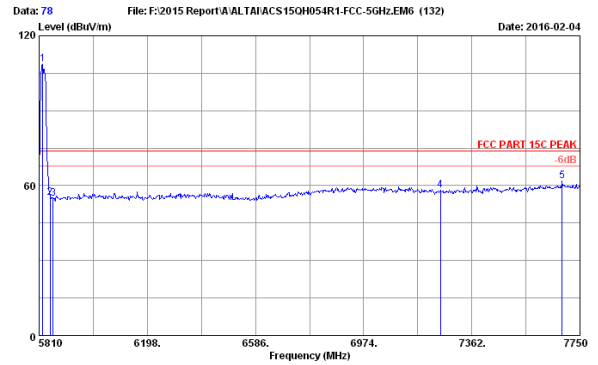
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 77
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5825MHz Tx
 WA8011NAC-X

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	5819.700	34.59	9.93	35.08	87.29	97.29	54.00	-43.29	Average
2	5850.000	34.61	9.95	35.07	35.16	44.65	54.00	9.35	Average
3	5860.000	34.62	9.95	35.07	33.91	43.41	54.00	10.59	Average
4	7250.000	36.10	10.74	35.50	34.16	45.50	54.00	8.50	Average
5	7707.320	36.82	11.18	35.68	35.01	47.33	54.00	6.67	Average

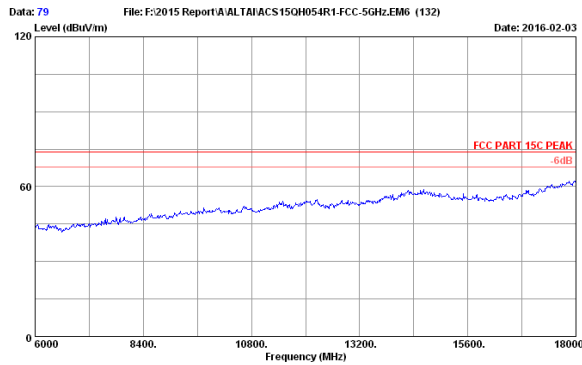
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



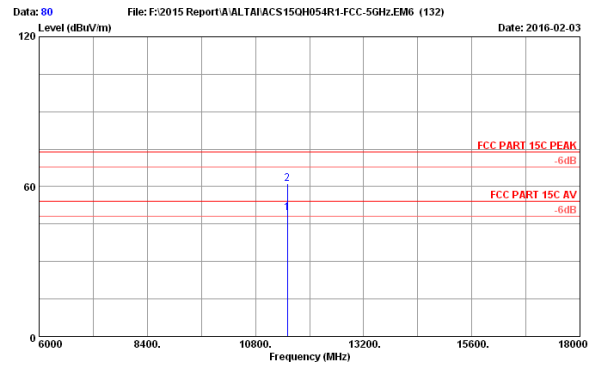
Site no. : 3m Chamber Data no. : 78
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5825MHz Tx
 WA8011NAC-X

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	5823.580	34.59	9.93	35.08	99.14	108.58	74.00	-34.58	Peak
2	5850.000	34.61	9.95	35.07	45.81	55.30	74.00	18.70	Peak
3	5860.000	34.62	9.95	35.07	45.47	54.97	74.00	19.03	Peak
4	7250.000	36.10	10.74	35.50	46.96	58.30	74.00	15.70	Peak
5	7685.980	36.81	11.16	35.67	49.51	61.81	74.00	12.19	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.



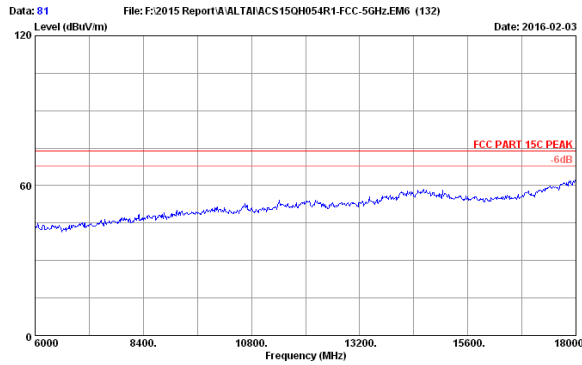
Site no. : 3m Chamber Data no. : 79
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5755MHz Tx
 WA8011NAC-X



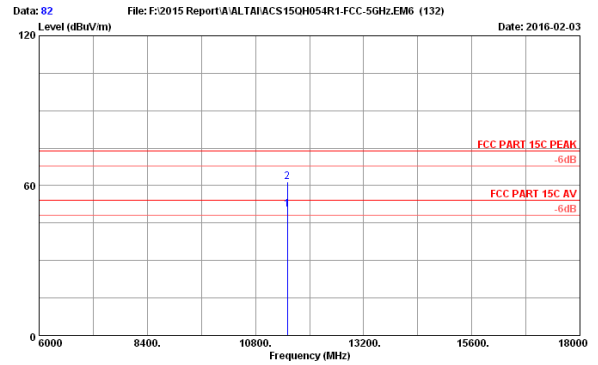
Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5755MHz Tx
 WA8011NAC-X

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	11510.000	39.11	14.56	35.33	31.26	49.60	54.00	4.40	Average
2	11510.000	39.11	14.56	35.33	42.89	61.23	74.00	12.77	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.



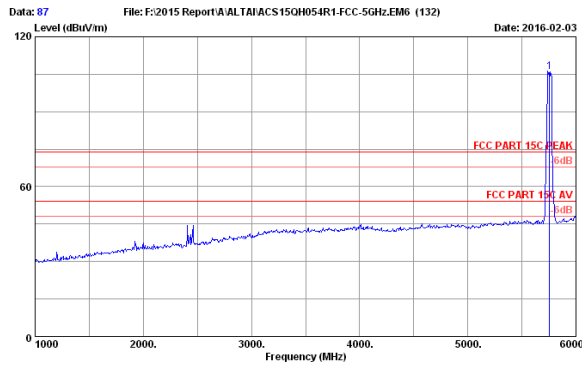
Site no. : 3m Chamber Data no. : 81
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC-X



Site no. : 3m Chamber Data no. : 82
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC-X

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	11510.000	39.11	14.56	35.33	32.11	50.45	54.00	3.55	Average
2	11510.000	39.11	14.56	35.33	43.25	61.59	74.00	12.41	Peak

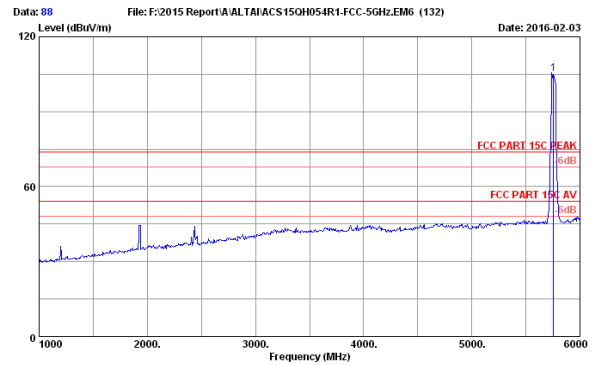
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
- Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 87
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC-X

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	5755.000	34.55	9.91	35.11	96.59	105.94	74.00	-31.94	Peak

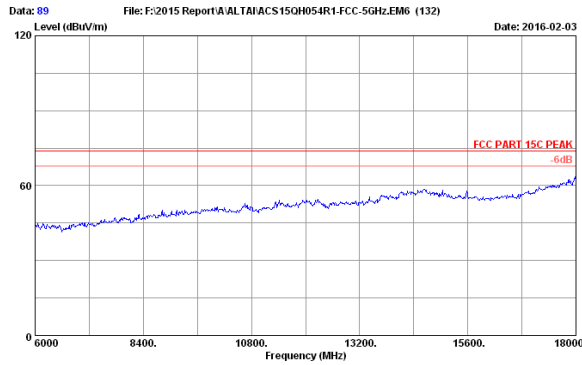
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
- Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



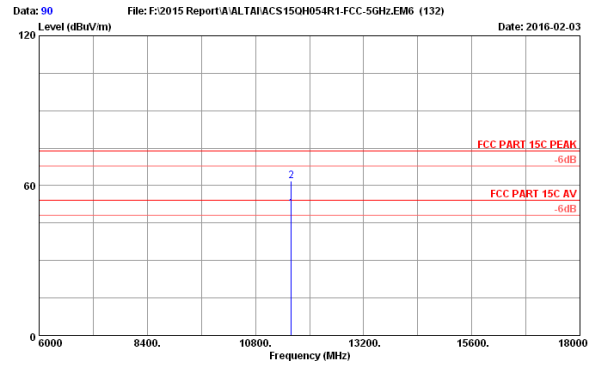
Site no. : 3m Chamber Data no. : 88
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC-X

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	5755.000	34.55	9.91	35.11	95.86	105.21	74.00	-31.21	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.



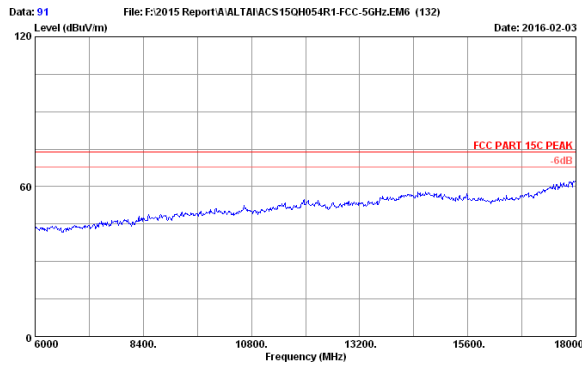
Site no. : 3m Chamber Data no. : 89
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5795MHz Tx
 WA8011NAC-X



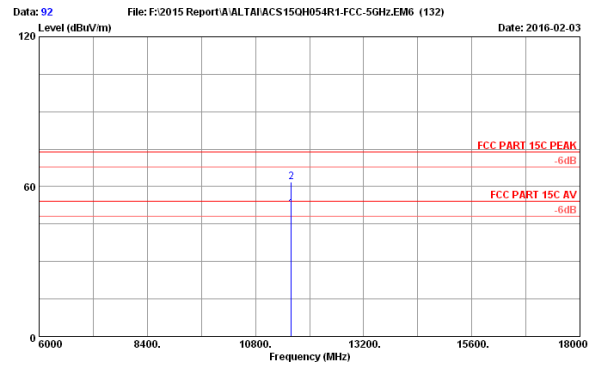
Site no. : 3m Chamber Data no. : 90
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5795MHz Tx
 WA8011NAC-X

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	11590.000	39.15	14.61	35.30	32.48	50.94	54.00	3.06	Average
2	11590.000	39.15	14.61	35.30	43.54	62.00	74.00	12.00	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.



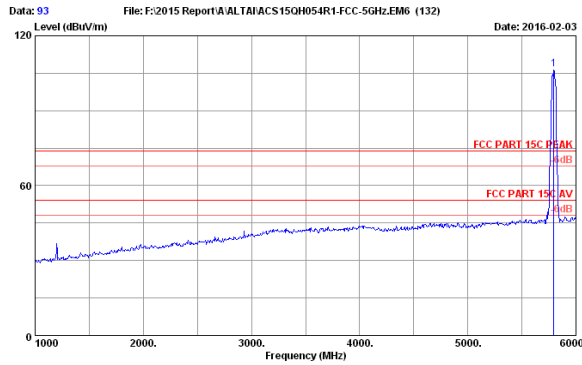
Site no. : 3m Chamber Data no. : 91
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5795MHz Tx
 WA8011NAC-X



Site no. : 3m Chamber Data no. : 92
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5795MHz Tx
 WA8011NAC-X

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	11590.000	39.15	14.61	35.30	32.52	50.98	54.00	3.02	Average
2	11590.000	39.15	14.61	35.30	43.28	61.74	74.00	12.26	Peak

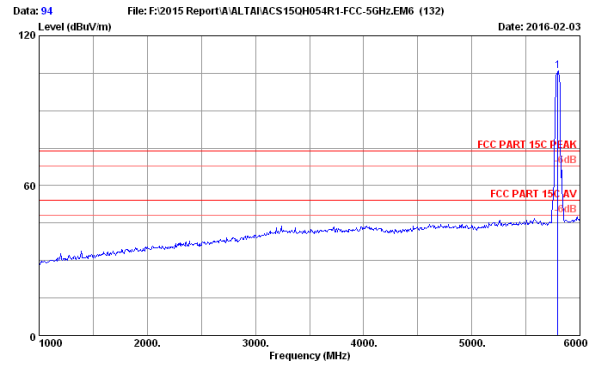
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 93
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5795MHz Tx
 WA8011NAC-X

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	5795.000	34.58	9.92	35.09	97.26	106.67	74.00	-32.67	Peak

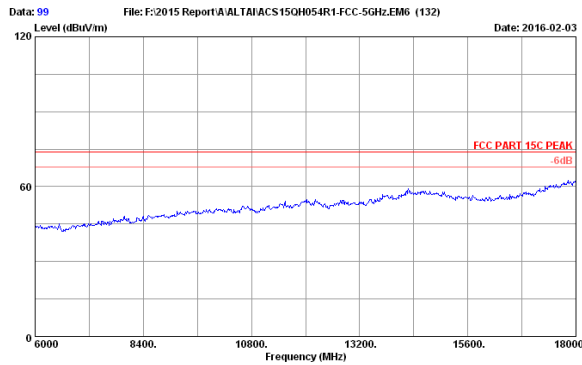
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 94
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5795MHz Tx
 WA8011NAC-X

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	5795.000	34.58	9.92	35.09	96.56	105.97	74.00	-31.97	Peak

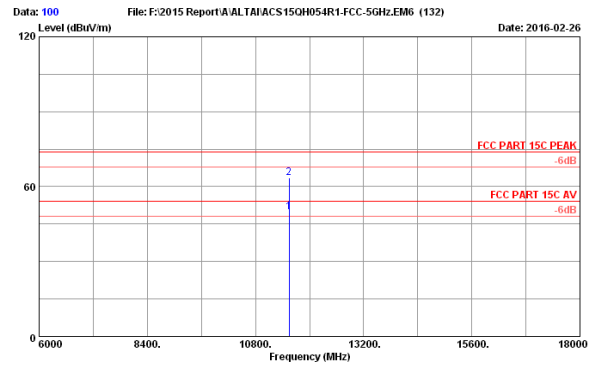
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 99
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT80 5775MHz Tx
 WA8011NAC-X

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	11550.000	39.13	14.58	35.31	31.42	49.82	54.00	4.18	Average
2	11550.000	39.13	14.58	35.31	45.16	63.56	74.00	10.44	Peak

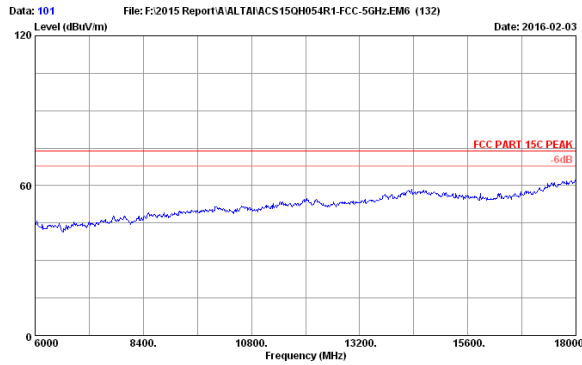
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



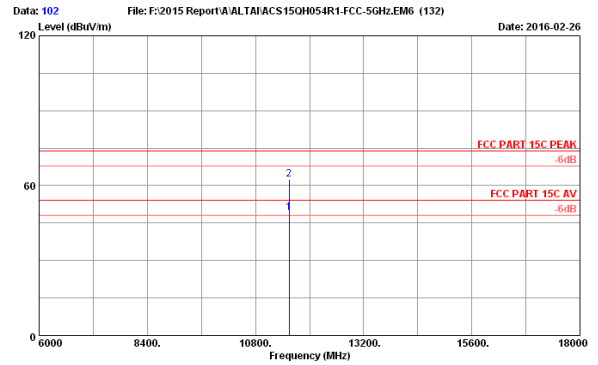
Site no. : 3m Chamber Data no. : 100
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT80 5775MHz Tx
 WA8011NAC-X

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	11550.000	39.13	14.58	35.31	31.42	49.82	54.00	4.18	Average
2	11550.000	39.13	14.58	35.31	45.16	63.56	74.00	10.44	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.



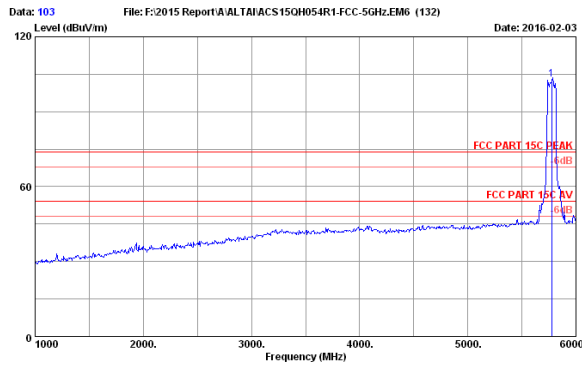
Site no. : 3m Chamber Data no. : 101
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT80 5775MHz Tx
 WA8011NAC-X



Site no. : 3m Chamber Data no. : 102
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT80 5775MHz Tx
 WA8011NAC-X

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	11550.000	39.13	14.58	35.31	30.85	49.25	54.00	4.75	Average
2	11550.000	39.13	14.58	35.31	44.13	62.53	74.00	11.47	Peak

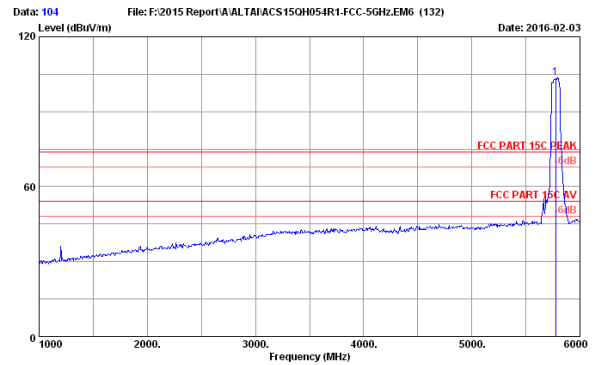
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 103
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT80 5775MHz Tx
 WA8011NAC-X

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	5775.000	34.57	9.91	35.10	93.69	103.07	74.00	-29.07	Peak

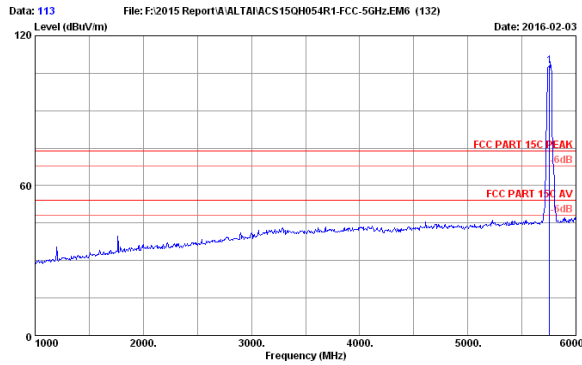
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 104
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT80 5775MHz Tx
 WA8011NAC-X

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	5775.000	34.57	9.91	35.10	94.26	103.64	74.00	-29.64	Peak

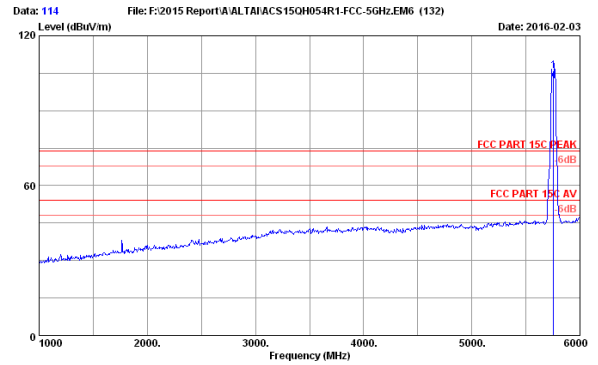
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 113
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5755MHz Tx
 WA8011NAC-X

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	5755.000	34.55	9.91	35.11	98.62	107.97	74.00	-33.97	Peak

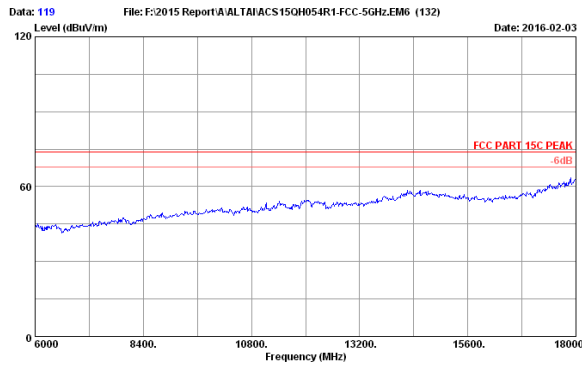
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 114
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5755MHz Tx
 WA8011NAC-X

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	5755.000	34.55	9.91	35.11	96.59	105.94	74.00	-31.94	Peak

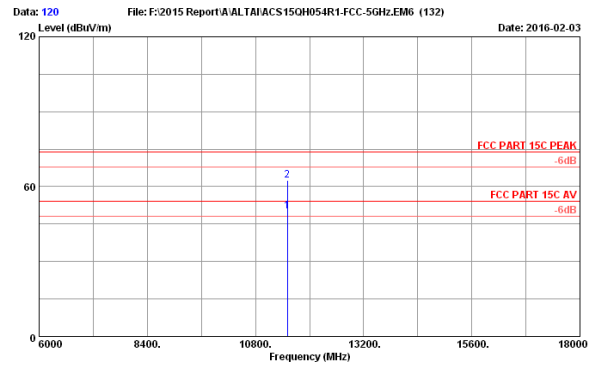
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 119
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5755MHz Tx
 WA8011NAC-X

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	11510.000	39.11	14.56	35.33	31.89	50.23	54.00	3.77	Average
2	11510.000	39.11	14.56	35.33	44.01	62.35	74.00	11.65	Peak

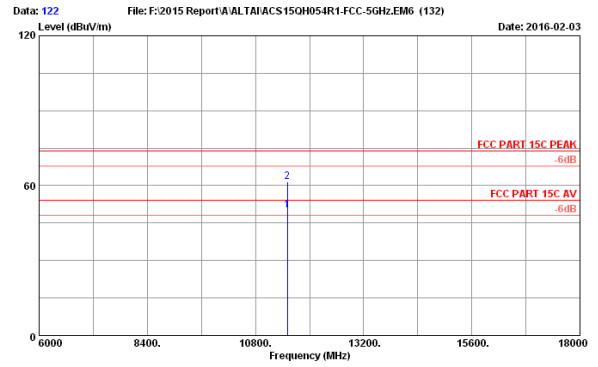
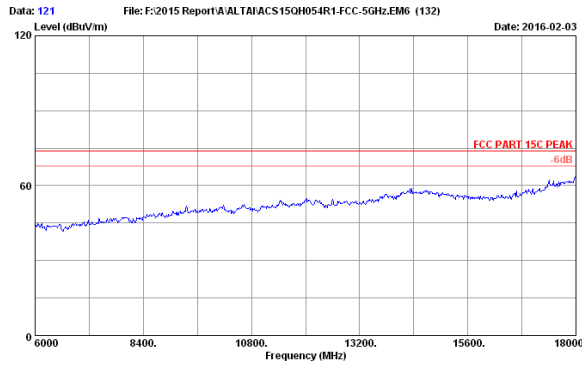
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 120
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5755MHz Tx
 WA8011NAC-X

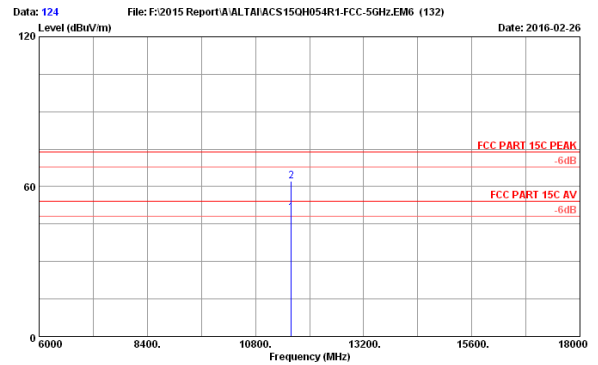
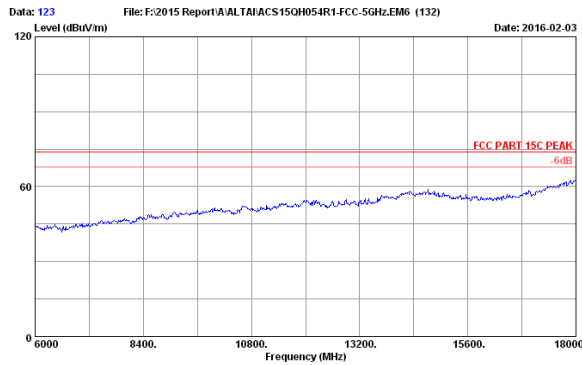
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11510.000	39.11	14.56	35.33	31.89	50.23	54.00	3.77	Average
2	11510.000	39.11	14.56	35.33	44.01	62.35	74.00	11.65	Peak

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.



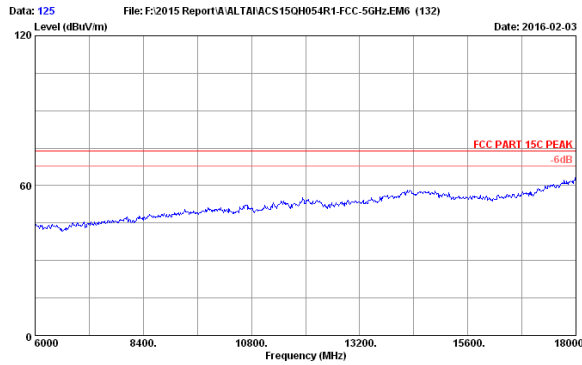
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11510.000	39.11	14.56	35.33	31.85	50.19	54.00	3.81	Average
2	11510.000	39.11	14.56	35.33	43.29	61.63	74.00	12.37	Peak

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.

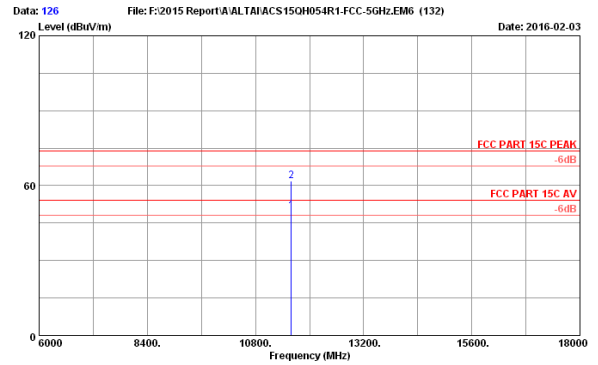


No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11590.000	39.15	14.61	35.30	30.85	49.31	54.00	4.69	Average
2	11590.000	39.15	14.61	35.30	43.74	62.20	74.00	11.80	Peak

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.



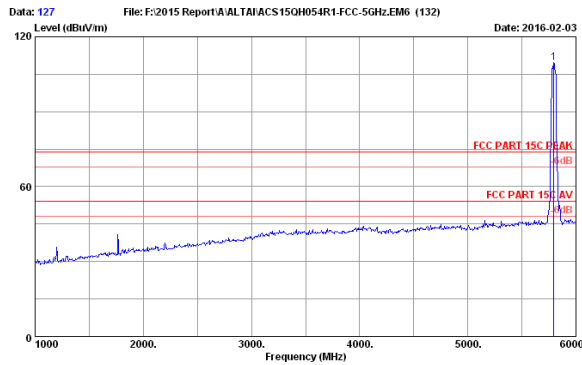
Site no. : 3m Chamber Data no. : 125
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC-X



Site no. : 3m Chamber Data no. : 126
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC-X

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	11590.000	39.15	14.61	35.30	31.28	49.74	54.00	4.26	Average
2	11590.000	39.15	14.61	35.30	43.26	61.72	74.00	12.28	Peak

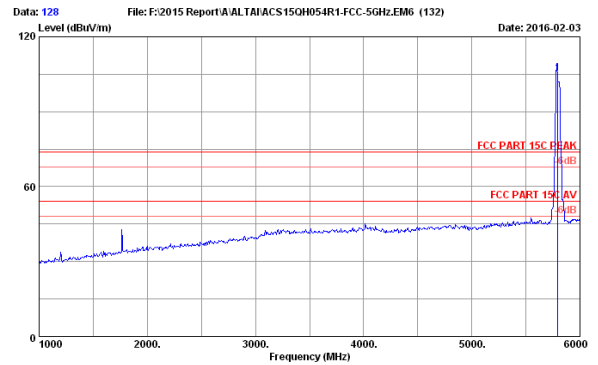
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 127
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC-X

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	5795.000	34.58	9.92	35.09	100.23	109.64	74.00	-35.64	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.



Site no. : 3m Chamber Data no. : 128
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC-X

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	5795.000	34.58	9.92	35.09	95.86	105.27	74.00	-31.27	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.

5. BAND EDGE COMPLIANCE TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	Apr.28,15	1 Year
2.	Amp	HP	8449B	3008A02495	Apr.28,15	1 Year
3.	Horn Antenna	ETS	3115	9510-4877	Oct.15,15	1 Year
4.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr.28,15	1 Year

5.2. Limit

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.

For devices with both operating frequencies and channel bandwidths contained within the band 5250-5350 MHz,

All emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.

For transmitters operating in the band 5470-5725MHz, Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

For the band 5725-5850 MHz, emissions at frequencies from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p.

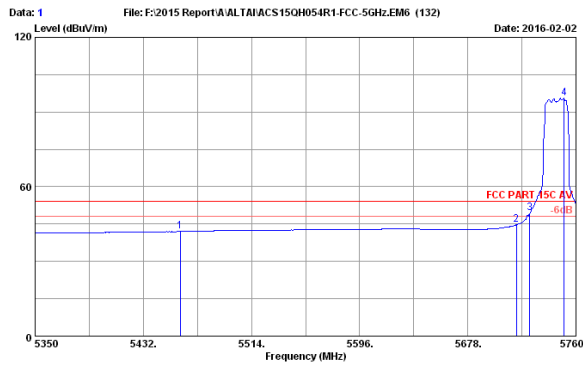
For emissions at frequencies more than 10 MHz above or below the band edges, the emissions power shall not exceed -27 dBm/MHz.

5.3. Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO
5. Per KDB789033 clause H 2)d).if the test distance is 3m,the EIRP(dBm)=E(dBuv/m)-95.2
Get the final compare with limit.

5.4. Test Results

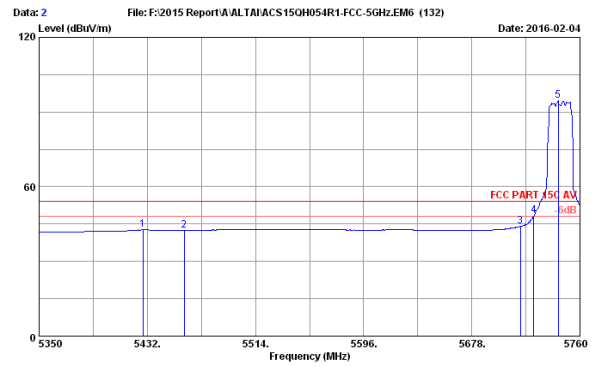
Pass (The testing data was attached in the next pages.)



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5745MHz Tx
 WA8011NAC-X

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	5460.000	34.33	9.76	35.25	33.16	42.00	54.00	12.00	Average
2	5715.000	34.53	9.88	35.12	35.45	44.74	54.00	9.26	Average
3	5725.000	34.53	9.89	35.12	40.13	49.43	54.00	4.57	Average
4	5750.980	34.55	9.90	35.11	86.18	95.52	54.00	-41.52	Average

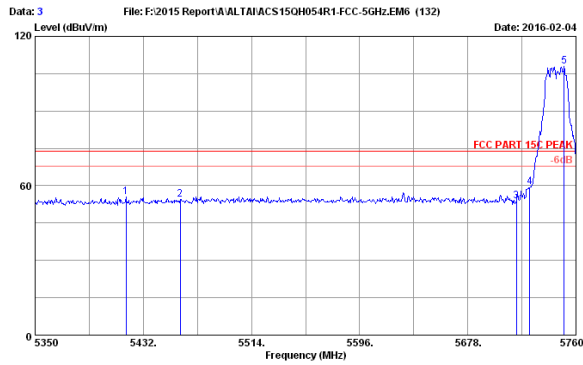
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5745MHz Tx
 WA8011NAC-X

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	5428.720	34.27	9.74	35.26	33.96	42.71	54.00	11.29	Average
2	5459.880	34.33	9.76	35.25	33.60	42.44	54.00	11.56	Average
3	5715.000	34.53	9.88	35.12	34.84	44.13	54.00	9.87	Average
4	5725.000	34.53	9.89	35.12	39.09	48.39	54.00	5.61	Average
5	5743.600	34.55	9.90	35.11	85.24	94.58	54.00	-40.58	Average

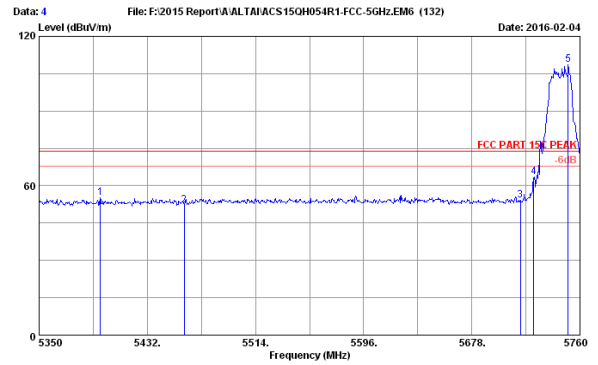
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5745MHz Tx
 WA8011NAC-X

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	5418.880	34.25	9.74	35.26	46.69	55.42	74.00	18.58	Peak
2	5460.000	34.33	9.76	35.25	45.67	54.51	74.00	19.49	Peak
3	5715.000	34.53	9.88	35.12	44.68	53.97	74.00	20.03	Peak
4	5725.000	34.53	9.89	35.12	50.06	59.36	74.00	14.64	Peak
5	5750.980	34.55	9.90	35.11	98.70	108.04	74.00	-34.04	Peak

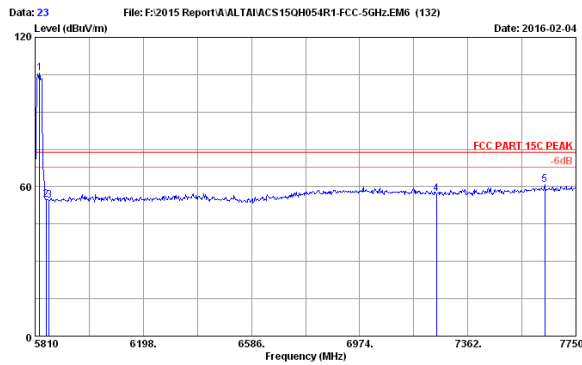
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5745MHz Tx
 WA8011NAC-X

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	5396.330	34.21	9.74	35.27	46.62	55.30	74.00	18.70	Peak
2	5460.000	34.33	9.76	35.25	43.29	52.13	74.00	21.87	Peak
3	5715.000	34.53	9.88	35.12	44.82	54.11	74.00	19.89	Peak
4	5725.000	34.53	9.89	35.12	54.05	63.35	74.00	10.65	Peak
5	5750.980	34.55	9.90	35.11	99.17	108.51	74.00	-34.51	Peak

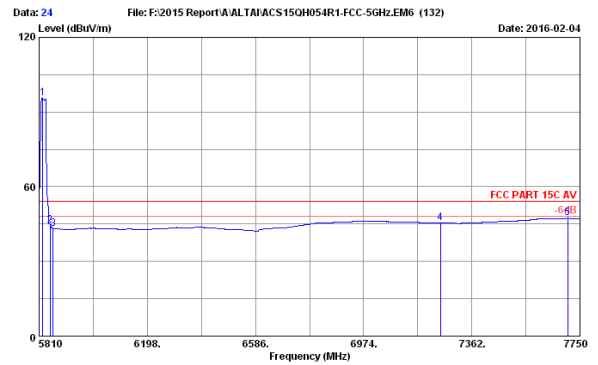
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5825MHz Tx
 WA8011NAC-X

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	5825.520	34.60	9.94	35.08	96.02	105.48	74.00	-31.48	Peak
2	5850.000	34.61	9.95	35.07	45.23	54.72	74.00	19.28	Peak
3	5860.000	34.62	9.95	35.07	45.09	54.59	74.00	19.41	Peak
4	7250.000	36.10	10.74	35.50	45.88	57.22	74.00	16.78	Peak
5	7637.480	36.78	11.11	35.65	48.56	60.80	74.00	13.20	Peak

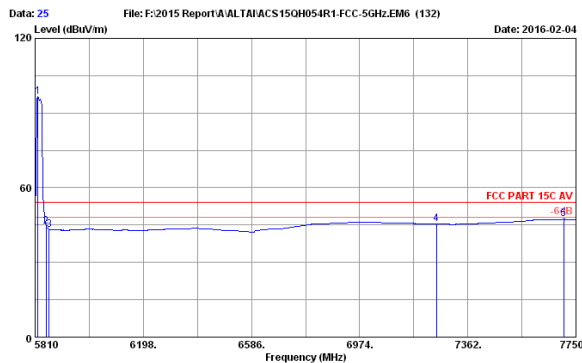
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5825MHz Tx
 WA8011NAC-X

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	5825.580	34.59	9.93	35.08	86.05	95.49	54.00	-41.49	Average
2	5850.000	34.61	9.95	35.07	34.92	44.41	54.00	9.59	Average
3	5860.000	34.62	9.95	35.07	33.75	43.25	54.00	10.75	Average
4	7250.000	36.10	10.74	35.50	34.14	45.48	54.00	8.52	Average
5	7705.380	36.82	11.18	35.68	35.01	47.33	54.00	6.67	Average

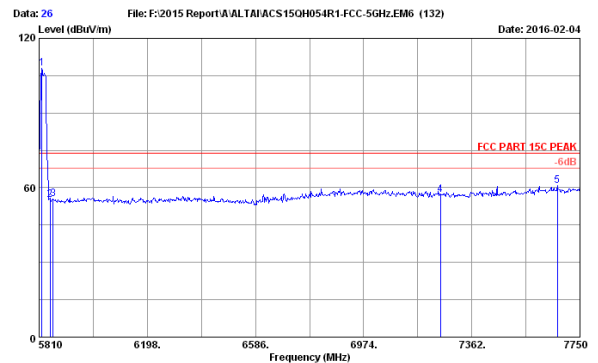
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5825MHz Tx
 WA8011NAC-X

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	5819.700	34.59	9.93	35.08	87.13	96.57	54.00	-42.57	Average
2	5850.000	34.61	9.95	35.07	34.93	44.42	54.00	9.58	Average
3	5860.000	34.62	9.95	35.07	33.77	43.27	54.00	10.73	Average
4	7250.000	36.10	10.74	35.50	34.12	45.46	54.00	8.54	Average
5	7705.380	36.82	11.18	35.68	35.01	47.33	54.00	6.67	Average

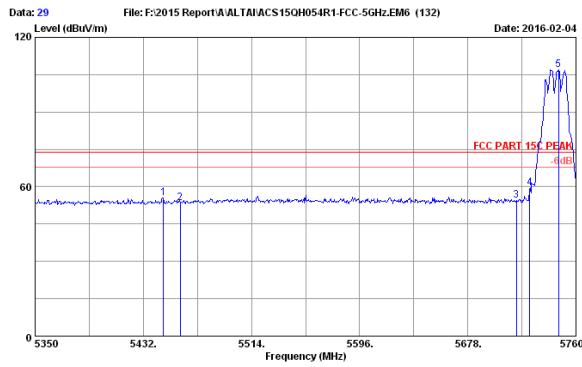
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11a 5825MHz Tx
 WA8011NAC-X

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	5819.700	34.59	9.93	35.08	98.55	107.99	74.00	-33.99	Peak
2	5850.000	34.61	9.95	35.07	45.60	55.09	74.00	18.91	Peak
3	5860.000	34.62	9.95	35.07	45.06	55.36	74.00	18.64	Peak
4	7250.000	36.10	10.74	35.50	45.84	57.18	74.00	16.82	Peak
5	7668.520	36.80	11.15	35.67	48.68	60.96	74.00	13.04	Peak

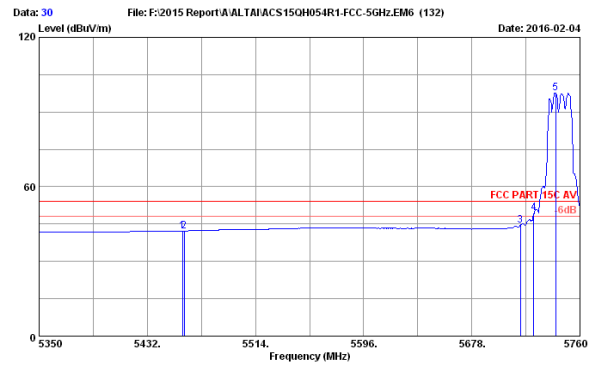
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5745MHz Tx
 WA8011NAC-X

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	5447.170	34.30	9.75	35.25	46.72	55.52	74.00	18.48	Peak
2	5460.000	34.33	9.76	35.25	44.57	53.41	74.00	20.59	Peak
3	5715.000	34.53	9.88	35.12	45.31	54.60	74.00	19.40	Peak
4	5725.000	34.53	9.89	35.12	50.28	59.58	74.00	14.42	Peak
5	5746.880	34.55	9.90	35.11	97.75	107.09	74.00	-33.09	Peak

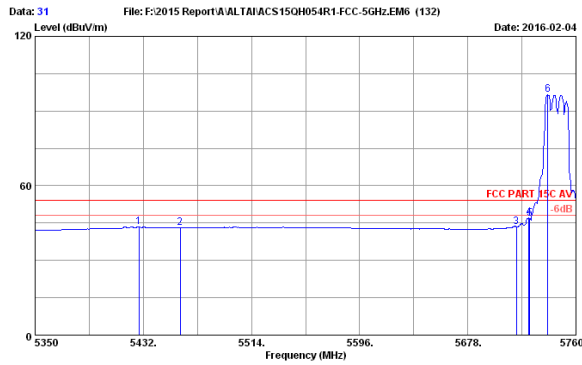
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5745MHz Tx
 WA8011NAC-X

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	5458.650	34.33	9.76	35.25	33.42	42.26	54.00	11.74	Average
2	5460.000	34.33	9.76	35.25	33.44	42.28	54.00	11.72	Average
3	5715.000	34.53	9.88	35.12	35.32	44.61	54.00	9.39	Average
4	5725.000	34.53	9.89	35.12	40.04	49.34	54.00	4.66	Average
5	5741.550	34.54	9.90	35.11	88.32	97.65	54.00	-43.65	Average

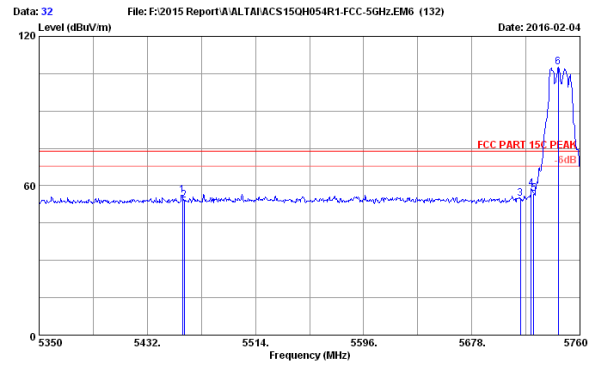
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5745MHz Tx
 WA8011NAC-X

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	5428.720	34.27	9.74	35.26	34.77	43.52	54.00	10.48	Average
2	5460.000	34.33	9.76	35.25	34.24	43.08	54.00	10.92	Average
3	5715.000	34.53	9.88	35.12	34.24	43.53	54.00	10.47	Average
4	5724.330	34.53	9.89	35.12	37.78	47.08	54.00	6.92	Average
5	5725.000	34.53	9.89	35.12	37.49	46.79	54.00	7.21	Average
6	5738.680	34.54	9.90	35.11	87.29	96.62	54.00	-42.62	Average

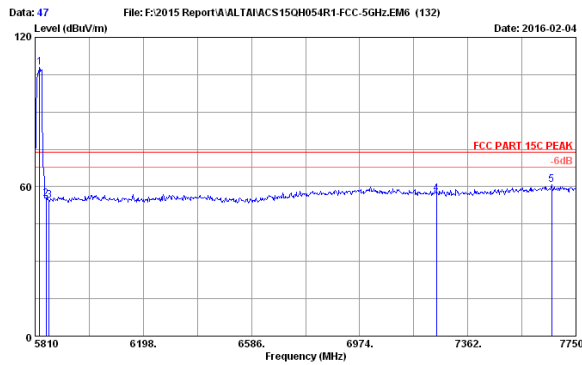
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5745MHz Tx
 WA8011NAC-X

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	5458.650	34.33	9.76	35.25	47.35	56.19	74.00	17.81	Peak
2	5460.000	34.33	9.76	35.25	45.27	54.11	74.00	19.89	Peak
3	5715.000	34.53	9.88	35.12	45.36	54.65	74.00	19.35	Peak
4	5723.100	34.53	9.89	35.12	49.68	58.98	74.00	15.02	Peak
5	5725.000	34.53	9.89	35.12	47.44	56.74	74.00	17.26	Peak
6	5743.600	34.55	9.90	35.11	98.18	107.52	74.00	-33.52	Peak

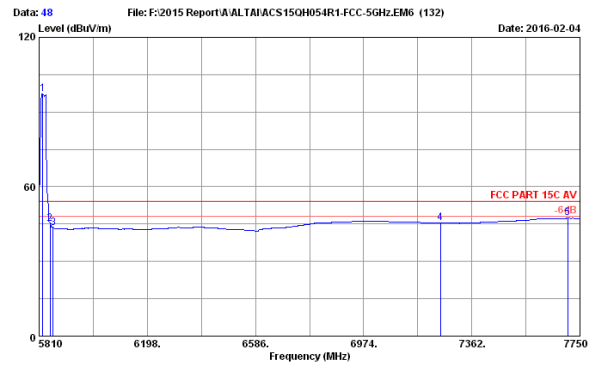
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5825MHz Tx
 WA8011NAC-X

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	5825.520	34.60	9.94	35.08	98.39	107.85	74.00	-33.85	Peak
2	5850.000	34.61	9.95	35.07	45.67	55.16	74.00	18.84	Peak
3	5860.000	34.62	9.95	35.07	44.85	54.35	74.00	19.65	Peak
4	7250.000	36.10	10.74	35.50	45.82	57.16	74.00	16.84	Peak
5	7662.700	36.80	11.15	35.67	48.45	60.73	74.00	13.27	Peak

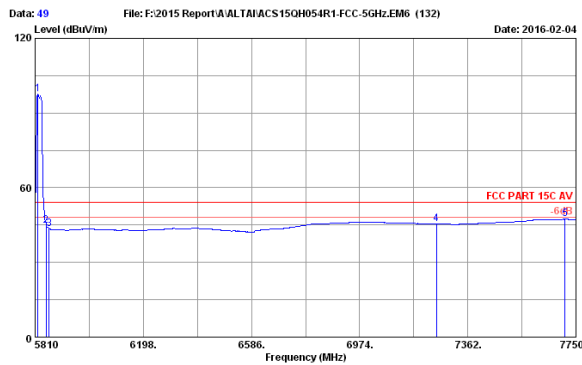
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5825MHz Tx
 WA8011NAC-X

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	5825.580	34.59	9.93	35.08	87.77	97.21	54.00	-43.21	Average
2	5850.000	34.61	9.95	35.07	35.60	45.09	54.00	8.91	Average
3	5860.000	34.62	9.95	35.07	34.03	43.53	54.00	10.47	Average
4	7250.000	36.10	10.74	35.50	34.16	45.50	54.00	8.50	Average
5	7705.380	36.82	11.18	35.68	35.01	47.33	54.00	6.67	Average

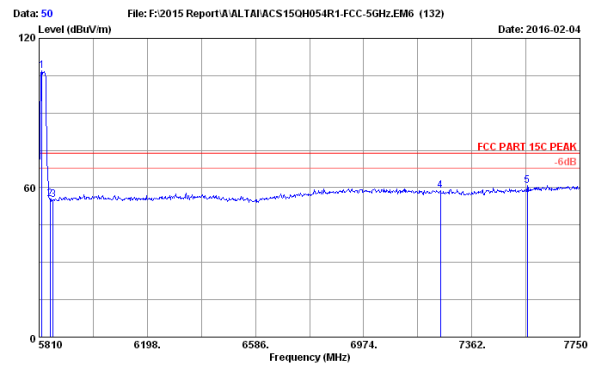
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 49
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5825MHz Tx
 WA8011NAC-X

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	5819.700	34.59	9.93	35.08	88.15	97.59	54.00	-43.59	Average
2	5850.000	34.61	9.95	35.07	35.37	44.86	54.00	9.14	Average
3	5860.000	34.62	9.95	35.07	33.98	43.48	54.00	10.52	Average
4	7250.000	36.10	10.74	35.50	34.15	45.49	54.00	8.51	Average
5	7711.200	36.83	11.18	35.68	35.01	47.34	54.00	6.66	Average

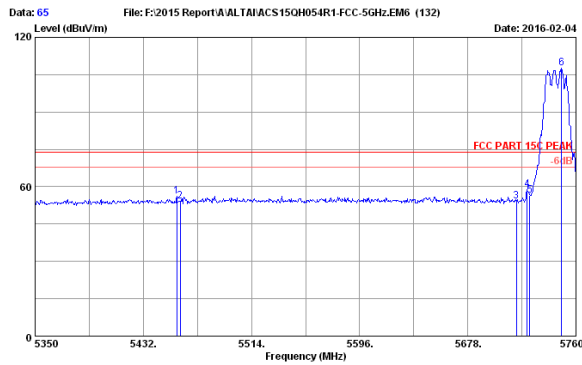
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5825MHz Tx
 WA8011NAC-X

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	5819.700	34.59	9.93	35.08	97.53	106.97	74.00	-32.97	Peak
2	5850.000	34.61	9.95	35.07	45.85	55.34	74.00	18.66	Peak
3	5860.000	34.62	9.95	35.07	45.60	55.10	74.00	18.90	Peak
4	7250.000	36.10	10.74	35.50	47.66	59.00	74.00	15.00	Peak
5	7561.820	36.74	11.04	35.62	48.83	60.99	74.00	13.01	Peak

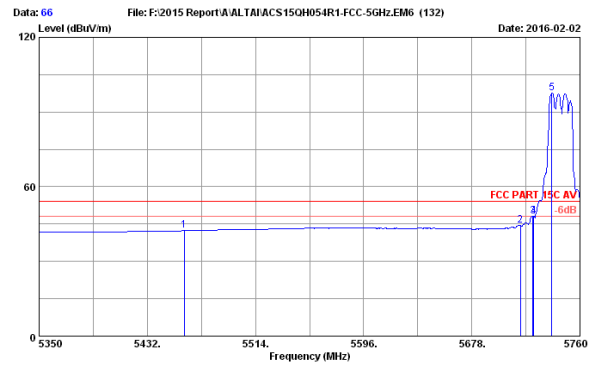
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 65
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5745MHz Tx
 WA8011NAC-X

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	5457.420	34.32	9.76	35.25	47.19	56.02	74.00	17.98	Peak
2	5460.000	34.33	9.76	35.25	45.37	54.21	74.00	19.79	Peak
3	5715.000	34.53	9.88	35.12	44.83	54.12	74.00	19.88	Peak
4	5723.000	34.53	9.89	35.12	49.40	58.70	74.00	15.30	Peak
5	5725.000	34.53	9.89	35.12	47.31	56.61	74.00	17.39	Peak
6	5748.930	34.55	9.90	35.11	98.29	107.63	74.00	-33.63	Peak

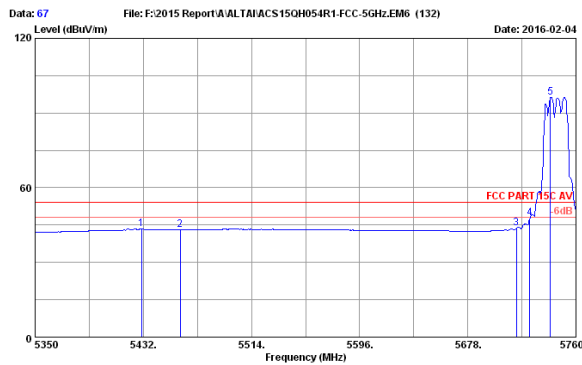
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5745MHz Tx
 WA8011NAC-X

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	5460.000	34.33	9.76	35.25	33.46	42.30	54.00	11.70	Average
2	5715.000	34.53	9.88	35.12	35.01	44.30	54.00	9.70	Average
3	5724.330	34.53	9.89	35.12	38.95	48.25	54.00	5.75	Average
4	5725.000	34.53	9.89	35.12	38.73	48.03	54.00	5.97	Average
5	5738.680	34.54	9.90	35.11	88.27	97.60	54.00	-43.60	Average

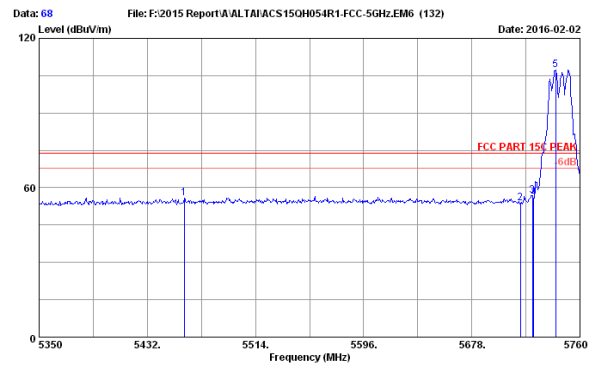
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 67
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5745MHz Tx
 WA8011NAC-X

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	5430.770	34.28	9.75	35.26	34.77	43.54	54.00	10.46	Average
2	5460.000	34.33	9.76	35.25	34.25	43.09	54.00	10.91	Average
3	5715.000	34.53	9.88	35.12	34.50	43.79	54.00	10.21	Average
4	5725.000	34.53	9.89	35.12	38.53	47.83	54.00	6.17	Average
5	5740.730	34.54	9.90	35.11	87.02	96.35	54.00	-42.35	Average

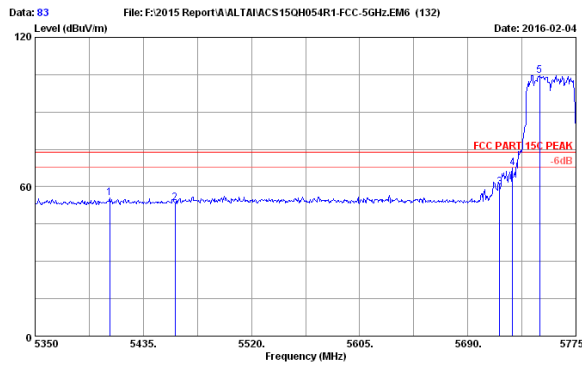
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT20 5745MHz Tx
 WA8011NAC-X

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	5460.000	34.33	9.76	35.25	46.97	55.81	74.00	18.19	Peak
2	5715.000	34.53	9.88	35.12	44.45	53.74	74.00	20.26	Peak
3	5725.920	34.53	9.89	35.12	47.54	56.84	74.00	17.16	Peak
4	5725.000	34.53	9.89	35.12	46.49	55.79	74.00	18.21	Peak
5	5741.550	34.54	9.90	35.11	98.02	107.35	74.00	-33.35	Peak

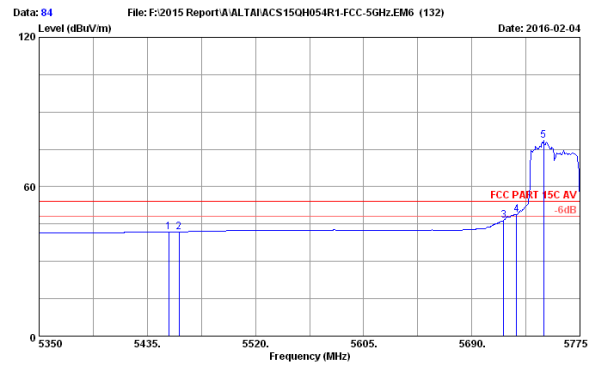
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 83
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5755MHz Tx
 WA8011NAC-X

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	5408.650	34.24	9.74	35.27	46.66	55.37	74.00	18.63	Peak
2	5460.000	34.33	9.76	35.25	44.72	53.56	74.00	20.44	Peak
3	5715.000	34.53	9.88	35.12	50.68	59.97	74.00	14.03	Peak
4	5725.000	34.53	9.89	35.12	58.09	67.39	74.00	6.61	Peak
5	5746.525	34.55	9.90	35.11	95.30	104.64	74.00	-30.64	Peak

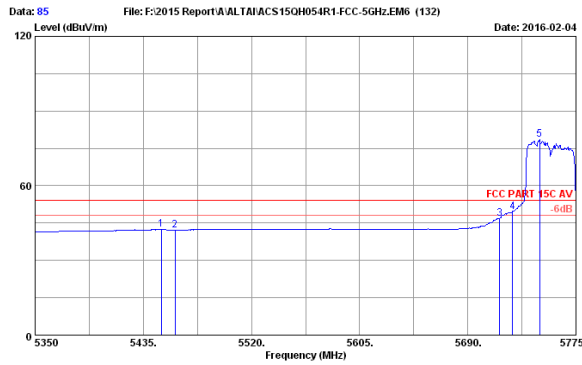
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 84
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5755MHz Tx
 WA8011NAC-X

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	5452.000	34.31	9.76	35.25	33.12	41.94	54.00	12.06	Peak
2	5460.000	34.33	9.76	35.25	33.04	41.88	54.00	12.12	Peak
3	5715.000	34.53	9.88	35.12	37.31	46.60	54.00	7.40	Peak
4	5725.000	34.53	9.89	35.12	39.41	48.71	54.00	5.29	Peak
5	5746.525	34.55	9.90	35.11	69.35	78.69	54.00	-24.69	Peak

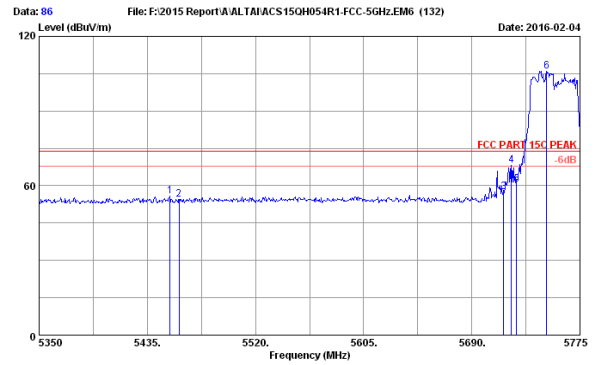
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 85
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5755MHz Tx
 WA8011NAC-X

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	5449.025	34.31	9.76	35.25	33.57	42.39	54.00	11.61	Average
2	5460.000	34.33	9.76	35.25	33.34	42.18	54.00	11.82	Average
3	5715.000	34.53	9.88	35.12	37.62	46.91	54.00	7.09	Average
4	5725.000	34.53	9.89	35.12	40.13	49.43	54.00	4.57	Average
5	5746.525	34.55	9.90	35.11	69.35	78.69	54.00	-24.69	Average

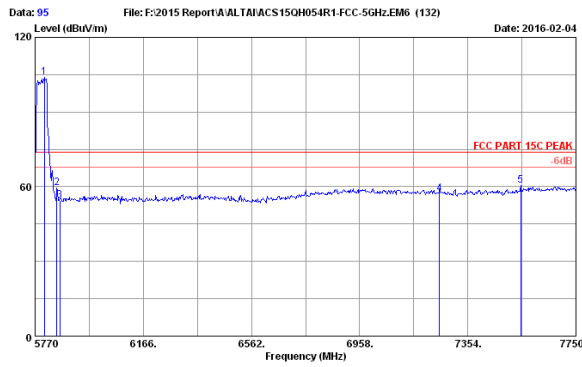
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 86
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5755MHz Tx
 WA8011NAC-X

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	5452.850	34.32	9.76	35.25	46.84	55.67	74.00	18.33	Peak
2	5460.000	34.33	9.76	35.25	45.56	54.40	74.00	19.60	Peak
3	5715.000	34.53	9.88	35.12	48.35	57.64	74.00	16.36	Peak
4	5721.025	34.53	9.89	35.12	59.02	68.32	74.00	5.68	Peak
5	5725.000	34.53	9.89	35.12	51.10	60.40	74.00	13.60	Peak
6	5746.650	34.55	9.90	35.11	96.74	106.08	74.00	-32.08	Peak

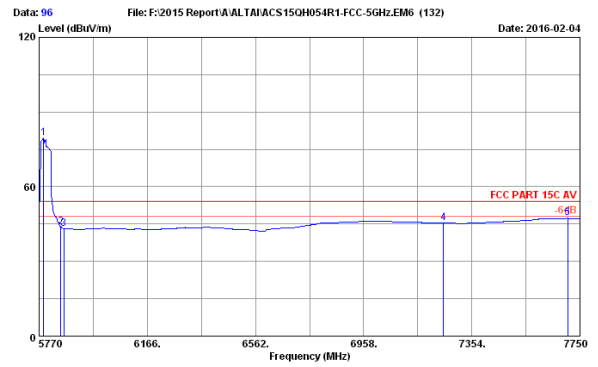
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 95
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5795MHz Tx
 WA8011NAC-X

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	5803.660	34.58	9.92	35.09	94.68	104.09	74.00	-30.09	Peak
2	5850.000	34.61	9.95	35.07	50.00	59.49	74.00	14.51	Peak
3	5860.000	34.62	9.95	35.07	44.98	54.48	74.00	19.52	Peak
4	7250.000	36.10	10.74	35.50	45.89	57.23	74.00	16.77	Peak
5	7548.040	36.73	11.02	35.62	48.33	60.46	74.00	13.54	Peak

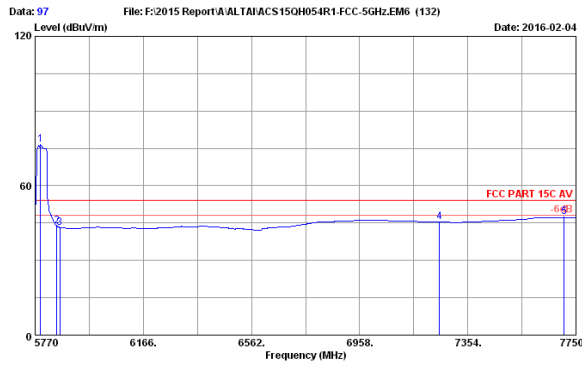
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5795MHz Tx
 WA8011NAC-X

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	5785.840	34.57	9.91	35.10	70.03	79.41	54.00	-25.41	Average
2	5850.000	34.61	9.95	35.07	34.29	43.78	54.00	10.22	Average
3	5860.000	34.62	9.95	35.07	33.72	43.22	54.00	10.78	Average
4	7250.000	36.10	10.74	35.50	34.14	45.48	54.00	8.52	Average
5	7704.460	36.82	11.18	35.68	35.01	47.33	54.00	6.67	Average

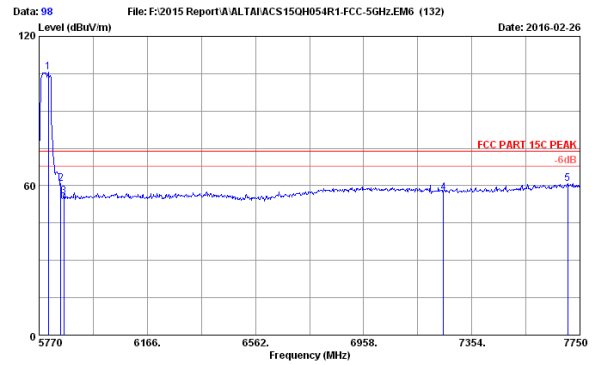
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 97
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5795MHz Tx
 WA8011NAC-X

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	5789.800	34.57	9.92	35.09	66.99	76.39	54.00	-22.39	Average
2	5850.000	34.61	9.95	35.07	34.31	43.80	54.00	10.20	Average
3	5860.000	34.62	9.95	35.07	33.76	43.26	54.00	10.74	Average
4	7250.000	36.10	10.74	35.50	34.13	45.47	54.00	8.53	Average
5	7704.460	36.82	11.18	35.68	34.98	47.30	54.00	6.70	Average

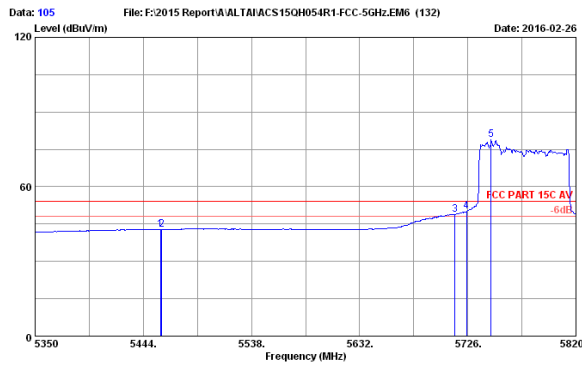
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT40 5795MHz Tx
 WA8011NAC-X

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	5803.660	34.58	9.92	35.09	96.20	105.61	74.00	-31.61	Peak
2	5850.000	34.61	9.95	35.07	51.35	60.84	74.00	13.16	Peak
3	5860.000	34.62	9.95	35.07	46.17	55.67	74.00	18.33	Peak
4	7250.000	36.10	10.74	35.50	45.98	57.32	74.00	16.68	Peak
5	7704.460	36.82	11.18	35.68	48.54	60.86	74.00	13.14	Peak

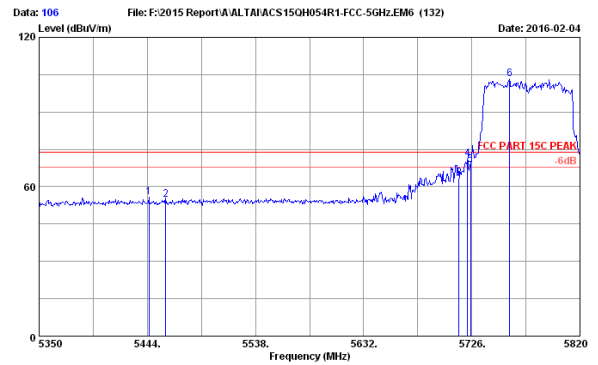
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 105
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT80 5775MHz Tx
 WA8011NAC-X

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	5459.040	34.33	9.75	35.25	34.05	42.89	54.00	11.11	Average
2	5460.000	34.33	9.75	35.25	34.00	42.84	54.00	11.16	Average
3	5715.000	34.53	9.88	35.12	39.35	48.64	54.00	5.36	Average
4	5725.000	34.53	9.89	35.12	40.95	50.25	54.00	3.75	Average
5	5746.210	34.55	9.90	35.11	69.41	78.75	54.00	-24.75	Average

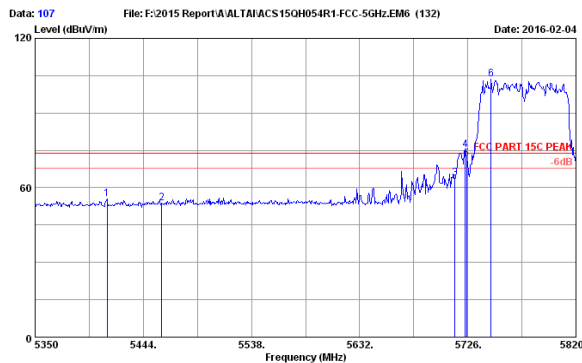
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 106
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT80 5775MHz Tx
 WA8011NAC-X

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	5445.410	34.30	9.75	35.25	46.86	55.66	74.00	18.34	Peak
2	5460.000	34.33	9.75	35.25	45.87	54.71	74.00	19.29	Peak
3	5715.000	34.53	9.88	35.12	54.36	63.65	74.00	10.35	Peak
4	5725.000	34.53	9.89	35.12	61.93	71.23	74.00	2.77	Peak
5	5725.000	34.53	9.89	35.12	59.41	68.71	74.00	5.29	Peak
6	5758.900	34.56	9.91	35.11	93.88	103.24	74.00	-29.24	Peak

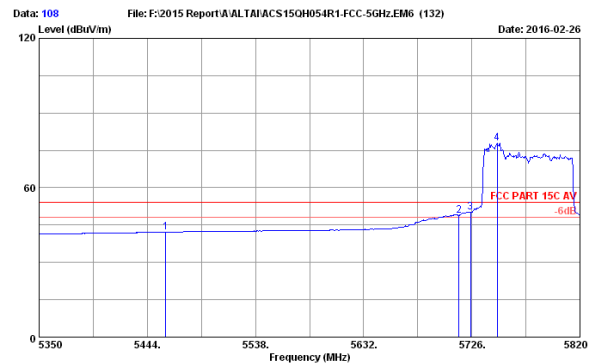
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 107
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT80 5775MHz Tx
 WA8011NAC-X

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	5412.510	34.24	9.74	35.26	46.67	55.39	74.00	18.61	Peak
2	5460.000	34.33	9.76	35.25	44.81	53.65	74.00	20.35	Peak
3	5715.000	34.53	9.88	35.12	54.40	63.69	74.00	10.31	Peak
4	5723.650	34.53	9.89	35.12	65.95	75.25	74.00	-1.25	Peak
5	5725.000	34.53	9.89	35.12	62.30	71.60	74.00	2.40	Peak
6	5746.210	34.55	9.90	35.11	94.13	103.47	74.00	-29.47	Peak

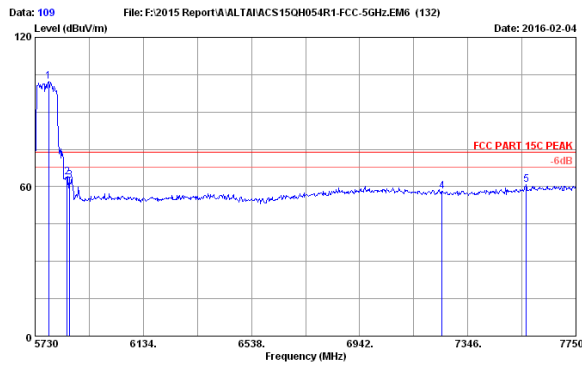
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 108
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT80 5775MHz Tx
 WA8011NAC-X

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	5460.000	34.33	9.75	35.25	33.31	42.15	54.00	11.85	Average
2	5715.000	34.53	9.88	35.12	39.67	48.96	54.00	5.04	Average
3	5725.000	34.53	9.89	35.12	40.95	50.25	54.00	3.75	Average
4	5748.090	34.55	9.90	35.11	68.55	77.89	54.00	-23.89	Average

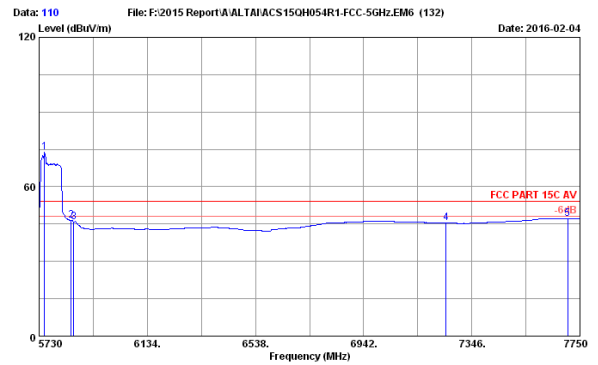
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 109
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT80 5775MHz Tx
 WA8011NAC-X

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	5780.500	34.57	9.91	35.10	92.75	102.13	74.00	-28.13	Peak
2	5850.000	34.61	9.95	35.07	54.31	63.80	74.00	10.20	Peak
3	5860.000	34.62	9.95	35.07	52.85	62.35	74.00	11.65	Peak
4	7250.000	36.10	10.74	35.50	46.77	58.11	74.00	15.89	Peak
5	7564.160	36.74	11.04	35.63	48.55	60.70	74.00	13.30	Peak

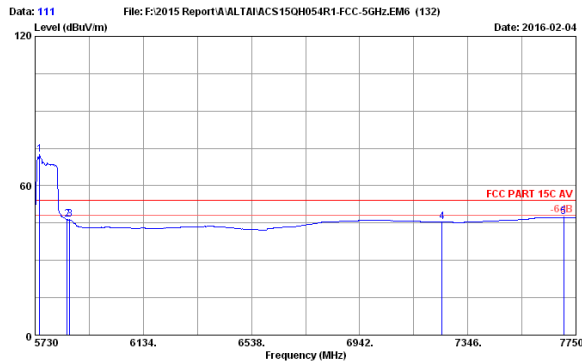
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 110
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT80 5775MHz Tx
 WA8011NAC-X

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	5750.200	34.55	9.90	35.11	64.60	73.94	54.00	-19.94	Average
2	5850.000	34.61	9.95	35.07	36.93	46.42	54.00	7.58	Average
3	5860.000	34.62	9.95	35.07	36.35	45.85	54.00	8.15	Average
4	7250.000	36.10	10.74	35.50	34.10	45.44	54.00	8.56	Average
5	7703.540	36.82	11.18	35.68	34.98	47.30	54.00	6.70	Average

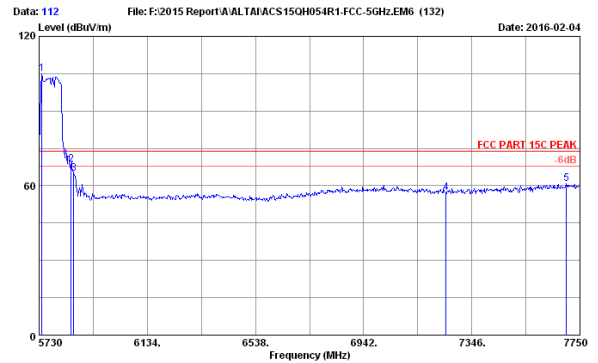
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 111
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT80 5775MHz Tx
 WA8011NAC-X

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	5746.160	34.55	9.90	35.11	63.05	72.39	54.00	-18.39	Average
2	5850.000	34.61	9.95	35.07	36.87	46.36	54.00	7.64	Average
3	5860.000	34.62	9.95	35.07	36.83	46.33	54.00	7.67	Average
4	7250.000	36.10	10.74	35.50	34.13	45.47	54.00	8.53	Average
5	7703.540	36.82	11.18	35.68	34.99	47.31	54.00	6.69	Average

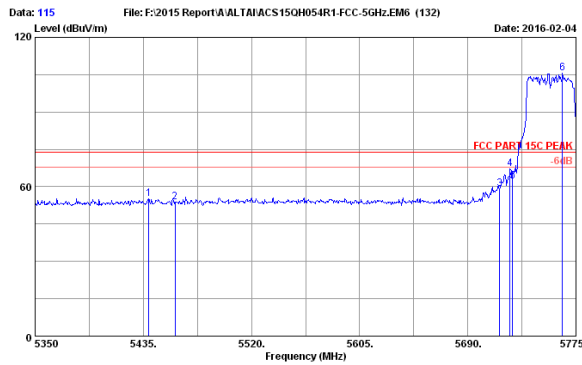
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 112
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11ac VHT80 5775MHz Tx
 WA8011NAC-X

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	5740.100	34.54	9.90	35.11	95.73	105.06	74.00	-31.06	Peak
2	5850.000	34.61	9.95	35.07	58.87	68.36	74.00	5.64	Peak
3	5860.000	34.62	9.95	35.07	55.45	64.95	74.00	9.05	Peak
4	7250.000	36.10	10.74	35.50	45.74	57.08	74.00	16.92	Peak
5	7699.500	36.82	11.18	35.68	48.52	60.84	74.00	13.16	Peak

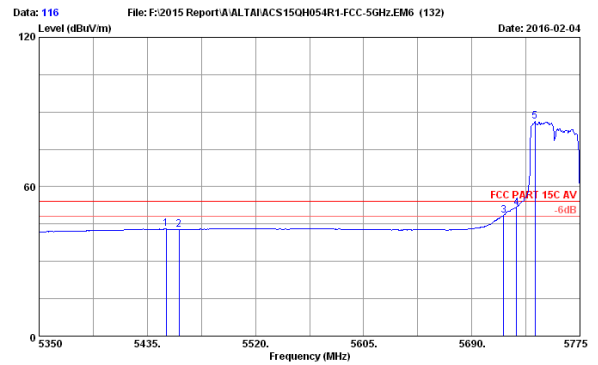
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 115
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5755MHz Tx
 WAB011NAC-X

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	5439.250	34.29	9.75	35.25	46.51	55.30	74.00	18.70	Peak
2	5460.000	34.33	9.76	35.25	45.00	53.84	74.00	20.16	Peak
3	5715.000	34.53	9.88	35.12	49.71	59.00	74.00	15.00	Peak
4	5723.150	34.53	9.89	35.12	58.04	67.34	74.00	6.66	Peak
5	5725.000	34.53	9.89	35.12	52.86	62.16	74.00	11.84	Peak
6	5764.375	34.56	9.91	35.10	96.10	105.47	74.00	-31.47	Peak

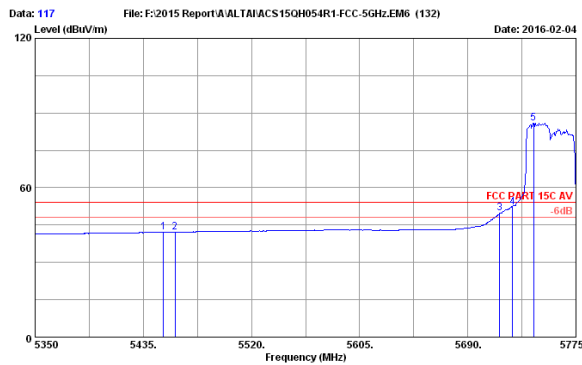
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 116
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5755MHz Tx
 WAB011NAC-X

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	5449.875	34.31	9.76	35.25	34.17	42.99	54.00	11.01	Average
2	5460.000	34.33	9.76	35.25	33.96	42.80	54.00	11.20	Average
3	5715.000	34.53	9.88	35.12	39.30	48.59	54.00	5.41	Average
4	5725.000	34.53	9.89	35.12	42.10	51.40	54.00	2.60	Average
5	5739.725	34.54	9.90	35.11	76.82	86.15	54.00	-32.15	Average

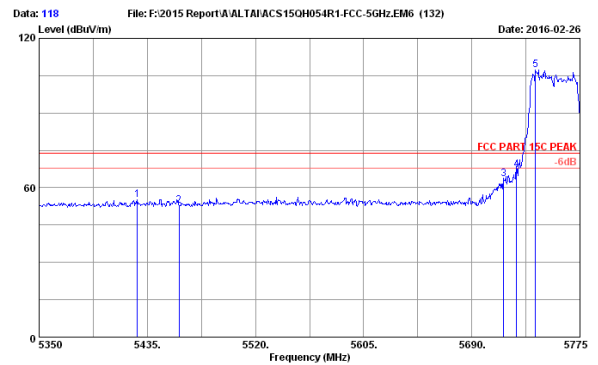
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 117
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5755MHz Tx
 WAB011NAC-X

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	5450.725	34.31	9.76	35.25	33.30	42.12	54.00	11.88	Average
2	5460.000	34.33	9.76	35.25	33.25	42.09	54.00	11.91	Average
3	5715.000	34.53	9.88	35.12	40.39	49.68	54.00	4.32	Average
4	5725.000	34.53	9.89	35.12	42.92	52.22	54.00	1.78	Average
5	5741.850	34.55	9.90	35.11	76.73	86.07	54.00	-32.07	Average

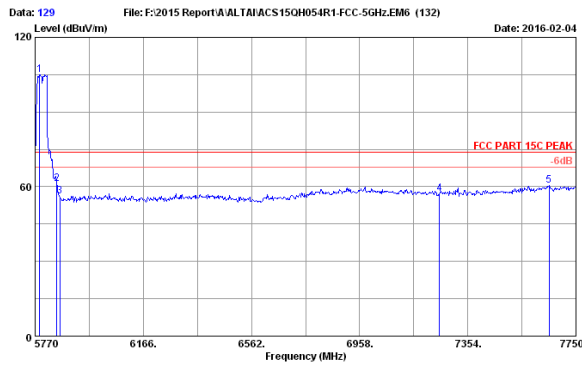
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 118
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5755MHz Tx
 WAB011NAC-X

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	5427.350	34.27	9.74	35.26	46.54	55.29	74.00	18.71	Peak
2	5460.000	34.33	9.76	35.25	44.00	52.84	74.00	21.16	Peak
3	5715.000	34.53	9.88	35.12	54.14	63.43	74.00	10.57	Peak
4	5725.000	34.53	9.89	35.12	57.88	67.18	74.00	6.82	Peak
5	5740.150	34.54	9.90	35.11	98.01	107.34	74.00	-33.34	Peak

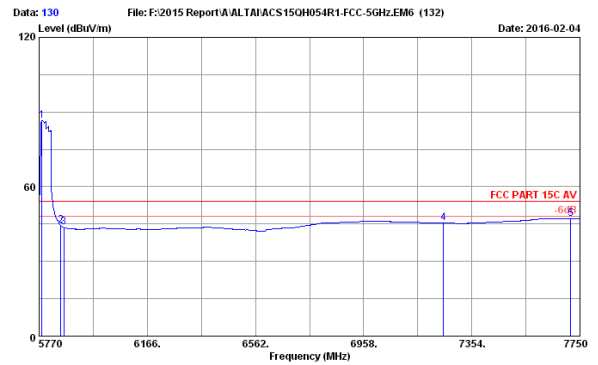
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 129
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5795MHz Tx
 WA8011NAC-X

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	5785.840	34.57	9.91	35.10	95.64	105.02	74.00	-31.02	Peak
2	5850.000	34.61	9.95	35.07	51.64	61.13	74.00	12.87	Peak
3	5860.000	34.62	9.95	35.07	46.75	56.25	74.00	17.75	Peak
4	7250.000	36.10	10.74	35.50	45.79	57.13	74.00	16.87	Peak
5	7651.000	36.79	11.13	35.66	48.20	60.46	74.00	13.54	Peak

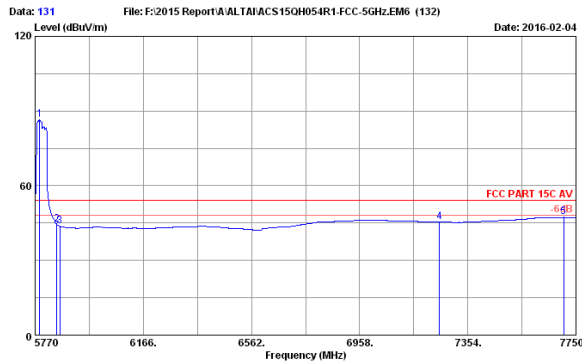
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 130
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5795MHz Tx
 WA8011NAC-X

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	5779.900	34.57	9.91	35.10	77.31	86.69	54.00	-32.69	Average
2	5850.000	34.61	9.95	35.07	34.93	44.42	54.00	9.58	Average
3	5860.000	34.62	9.95	35.07	34.16	43.66	54.00	10.34	Average
4	7250.000	36.10	10.74	35.50	34.13	45.47	54.00	8.53	Average
5	7716.340	36.83	11.20	35.69	34.95	47.29	54.00	6.71	Average

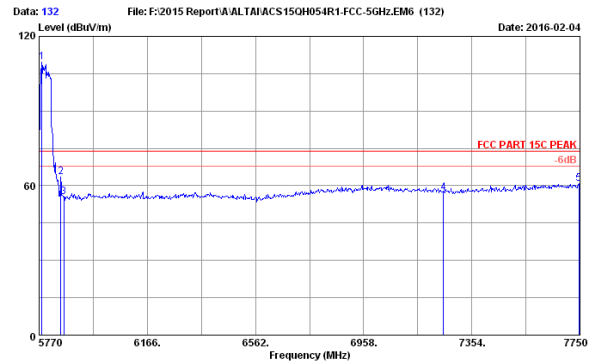
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 131
 Dis. / Ant. : 3m 2011329 CABLE Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5795MHz Tx
 WA8011NAC-X

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	5785.840	0.00	9.91	35.10	111.72	86.53	54.00	-32.53	Average
2	5850.000	0.00	9.95	35.07	69.59	44.47	54.00	9.53	Average
3	5860.000	0.00	9.95	35.07	68.90	43.78	54.00	10.22	Average
4	7250.000	0.00	10.74	35.50	70.26	45.50	54.00	8.50	Average
5	7704.460	0.00	11.18	35.68	71.80	47.30	54.00	6.70	Average

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.



Site no. : 3m Chamber Data no. : 132
 Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A8n (ac) Super WiFi Base Station
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5795MHz Tx
 WA8011NAC-X

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	5779.900	34.57	9.91	35.10	100.20	109.58	74.00	-35.58	Peak
2	5850.000	34.61	9.95	35.07	53.99	63.48	74.00	10.52	Peak
3	5860.000	34.62	9.95	35.07	45.84	55.34	74.00	18.66	Peak
4	7250.000	36.10	10.74	35.50	45.87	57.21	74.00	16.79	Peak
5	7746.040	36.85	11.22	35.70	48.41	60.78	74.00	13.22	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.

6. 6dB&26dB Bandwidth Test

6.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	Apr.28,15	1 Year
2.	Spectrum	Agilent	N9030A	MY51380221	Oct.18,15	1Year
3.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.28,15	1 Year
4.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct.17.15	1 Year

6.2.Limit

6dB Bandwidth should be not less than 500kHz

6.3.Test Procedure

6dB Bandwidth:

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 KHz VBW for signal width below 20MHz and 300KHz RBW ,1MHz VBW for Above 20MHz signal Bandwidth.

26dB Bandwidth:

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 KHz VBW The 26dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 26dB.

6.4.Test Results

6dB bandwidth

EUT: Altai A8n (ac) Super WiFi Base Station		
M/N: WA8011NAC-X		
Test date: 2016-02-18	Pressure: 101.3±1.0 kpa	Humidity: 50.4±3.0%
Tested by: Donjon_Huang	Test site: RF site	Temperature: 21.3±0.6 °C

Test Mode	CH	6dB bandwidth (MHz)		Limit (KHz)
		ANT1	ANT2	
11a	CH149	16.51	16.44	≥500
	CH157	16.49	16.48	≥500
	CH165	16.47	16.51	≥500
11n HT20	CH149	17.69	17.67	≥500
	CH157	17.71	17.71	≥500
	CH165	17.73	17.73	≥500
11n HT40	CH151	36.32	37.11	≥500
	CH159	36.42	36.46	≥500
11ac VHT20	CH149	17.73	17.68	≥500
	CH157	17.72	17.71	≥500
	CH165	17.68	17.57	≥500
11ac VHT40	CH151	36.44	35.12	≥500
	CH159	35.50	35.85	≥500
11ac VHT80	CH155	75.14	72.58	≥500
Conclusion : PASS				

26dB bandwidth

EUT: Altai A8n (ac) Super WiFi Base Station		
M/N: WA8011NAC-X		
Test date: 2016-02-18	Pressure: 101.8±1.0 kpa	Humidity: 50.2±3.0%
Tested by: Donjon_Huang	Test site: RF site	Temperature:20.5±0.6 °C

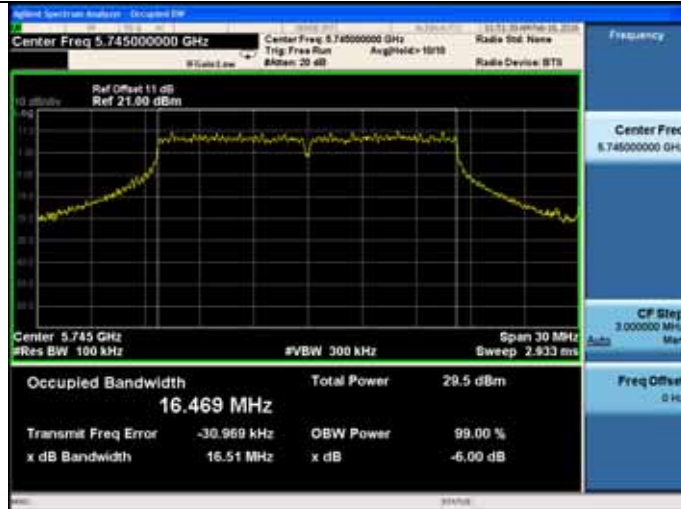
Test Mode	CH	26dB bandwidth (MHz)		Limit (KHz)
		ANT1	ANT2	
11a	CH149	20.52	19.43	N/A
	CH157	20.02	19.80	N/A
	CH165	19.84	20.05	N/A
11n HT20	CH149	21.17	20.56	N/A
	CH157	21.13	20.99	N/A
	CH165	20.64	20.91	N/A
11n HT40	CH151	39.86	39.62	N/A
	CH159	39.29	39.62	N/A
11ac VHT20	CH149	20.99	20.75	N/A
	CH157	21.10	21.09	N/A
	CH165	20.80	20.89	N/A
11ac VHT40	CH151	39.03	38.68	N/A
	CH159	38.74	38.74	N/A
11ac VHT80	CH155	78.29	77.79	N/A
Conclusion : PASS				

6dB bandwidth

ANT 1

11a

5745MHz

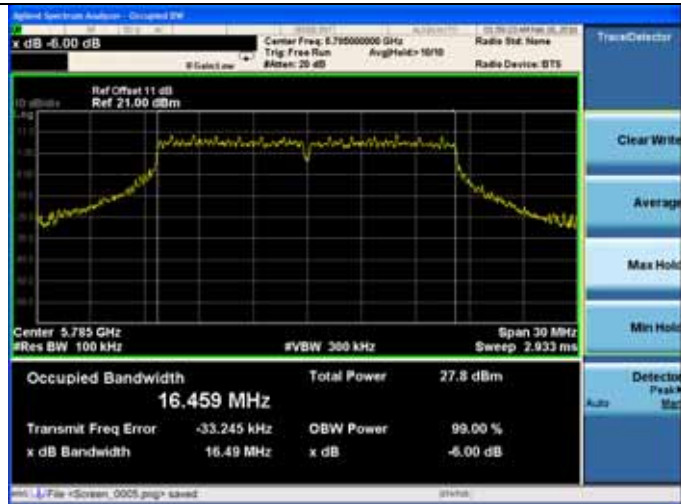


11n HT20

5745MHz



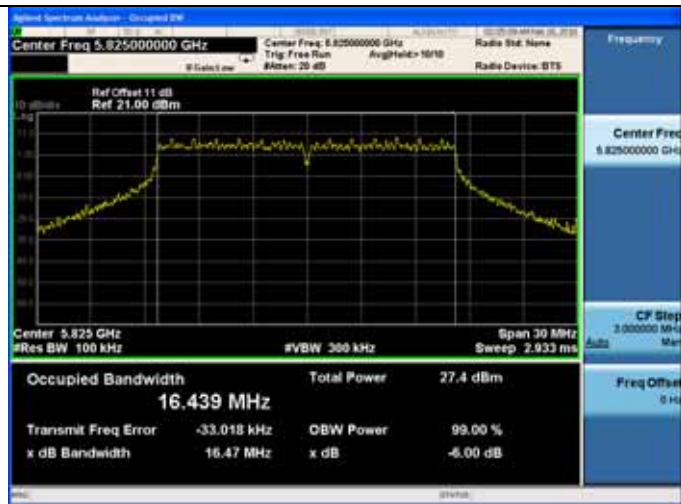
5785MHz



5785MHz



5825MHz

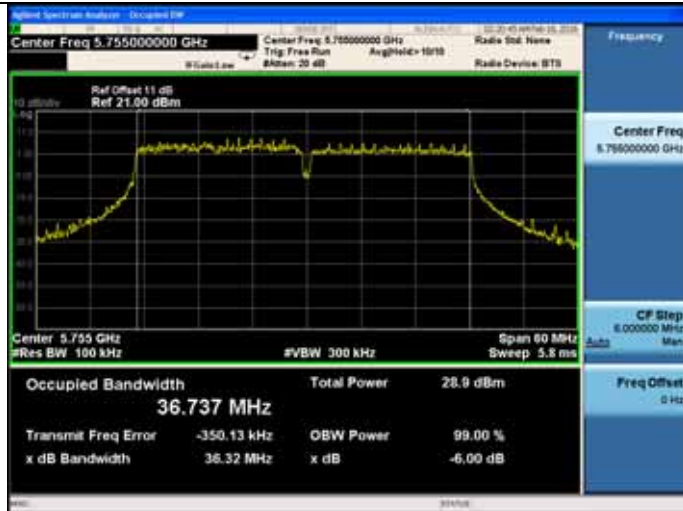


5825MHz

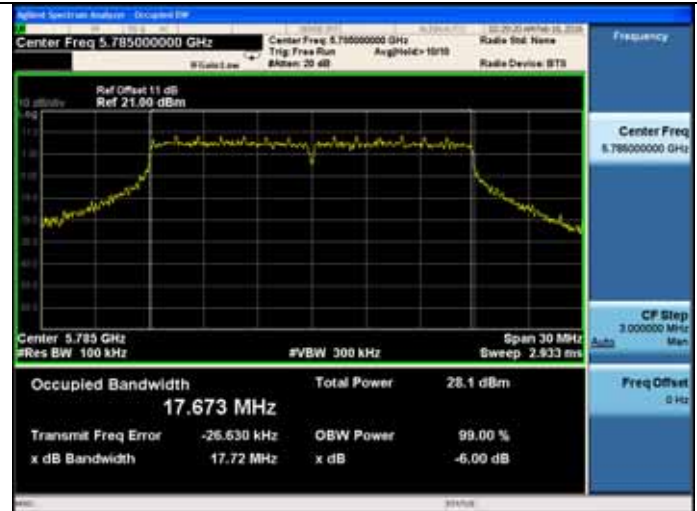


11n HT40

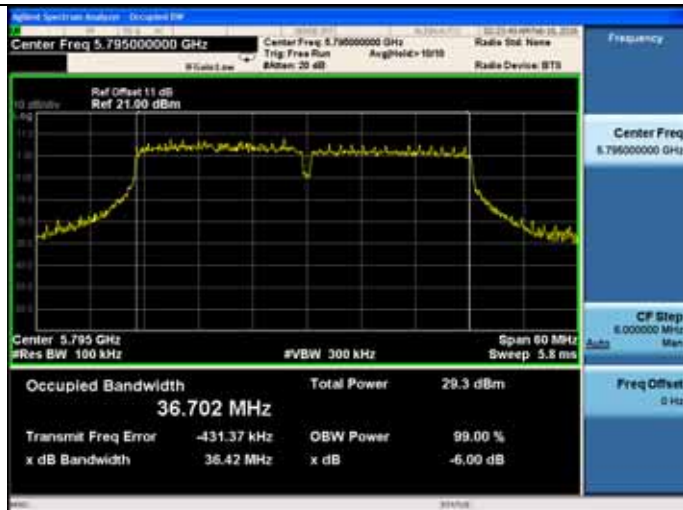
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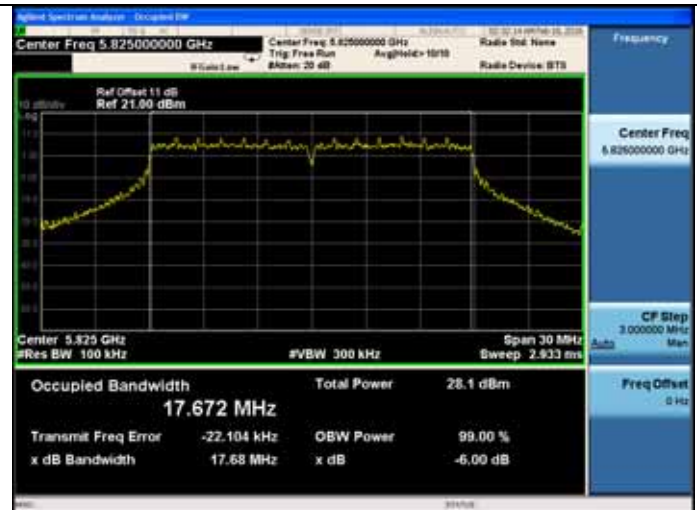
5785MHz



5795MHz

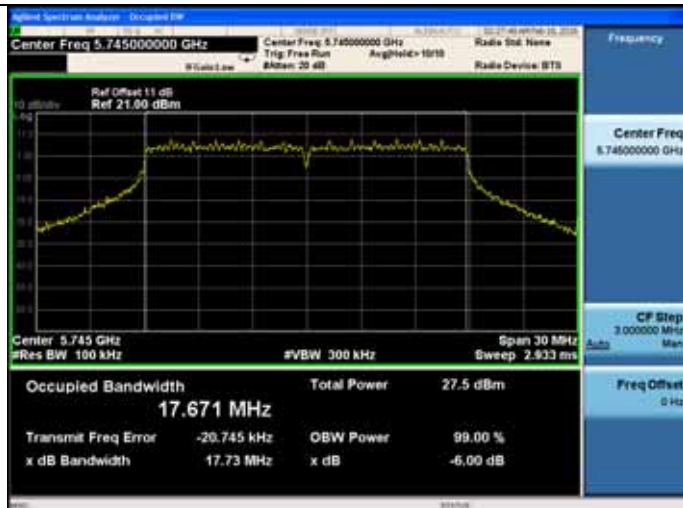


5825MHz



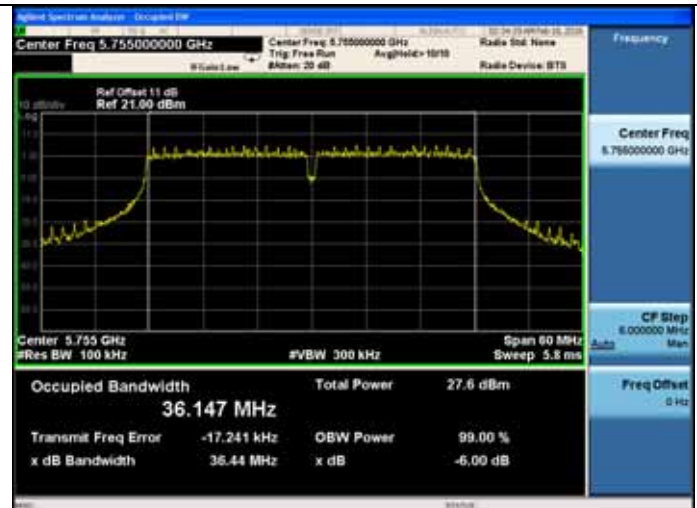
11ac VHT20

5745MHz

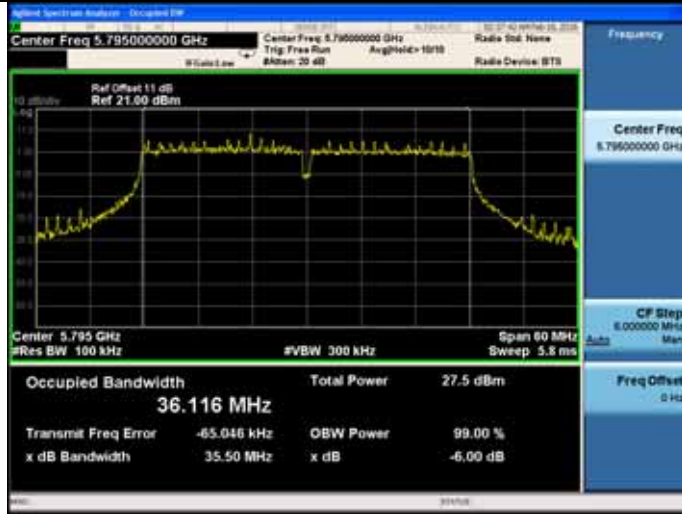


11ac VHT40

5755MHz

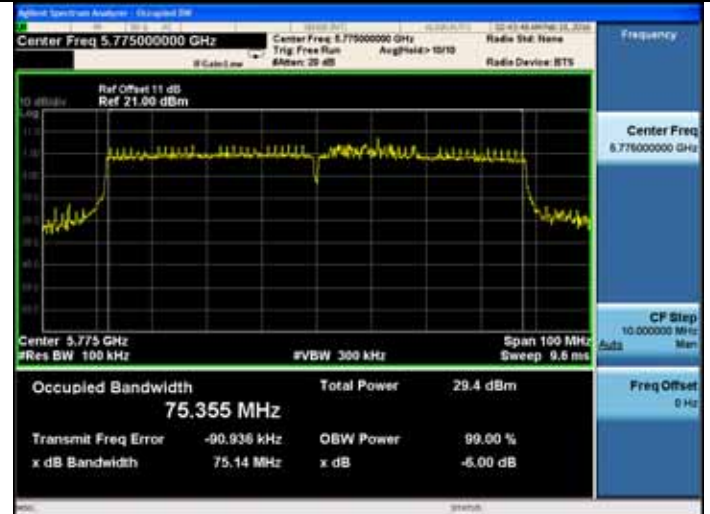


5795MHz



11ac VHT80

5775MHz

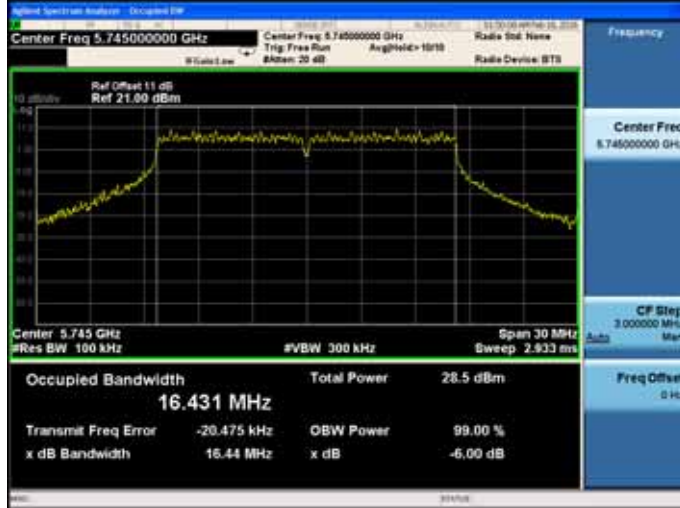


6dB bandwidth

ANT 2

11a

5745MHz

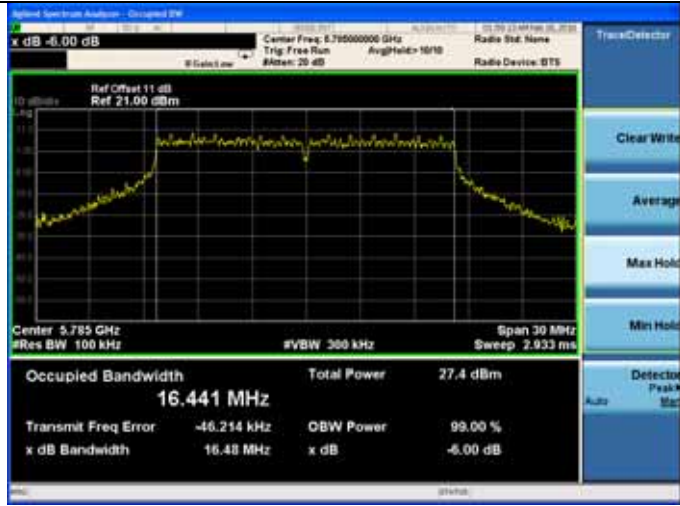


11n HT20

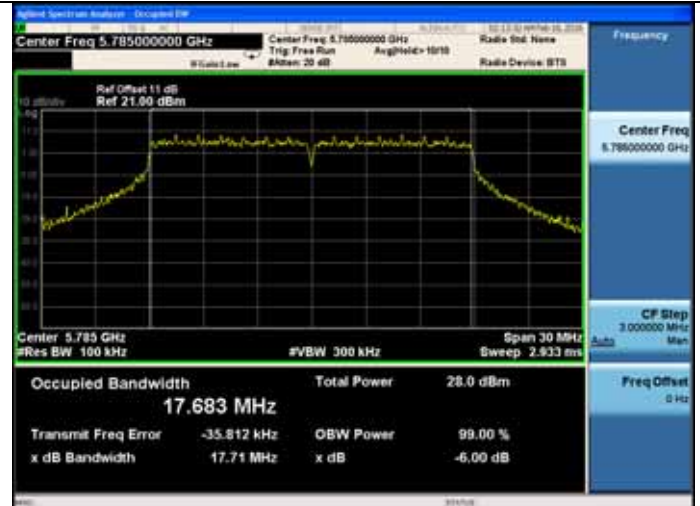
5745MHz



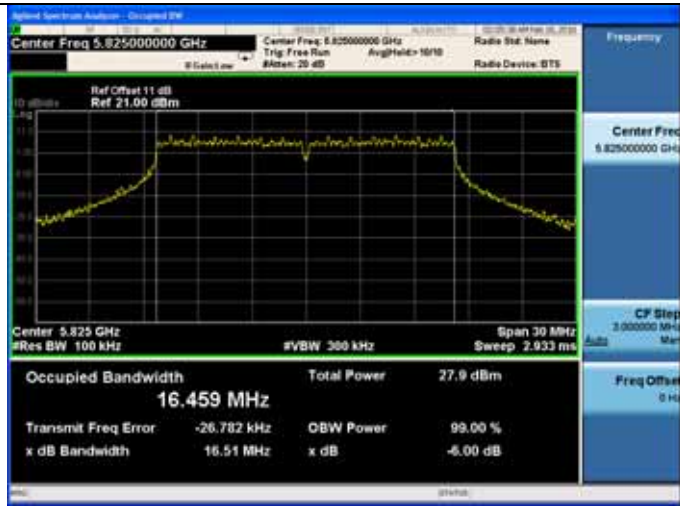
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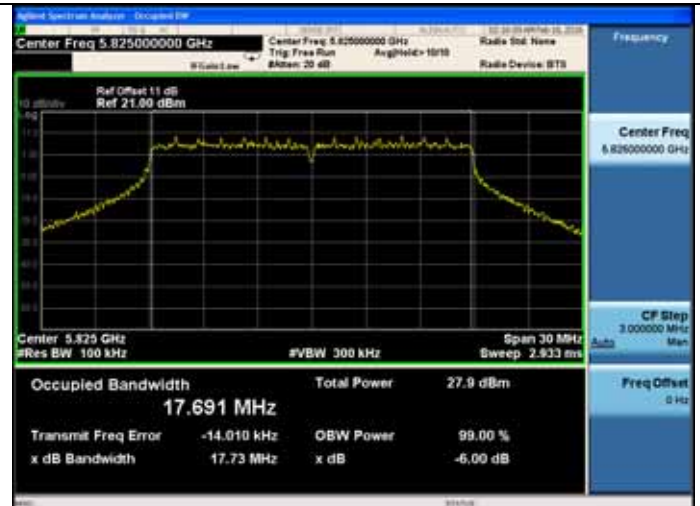
5785MHz



5825MHz

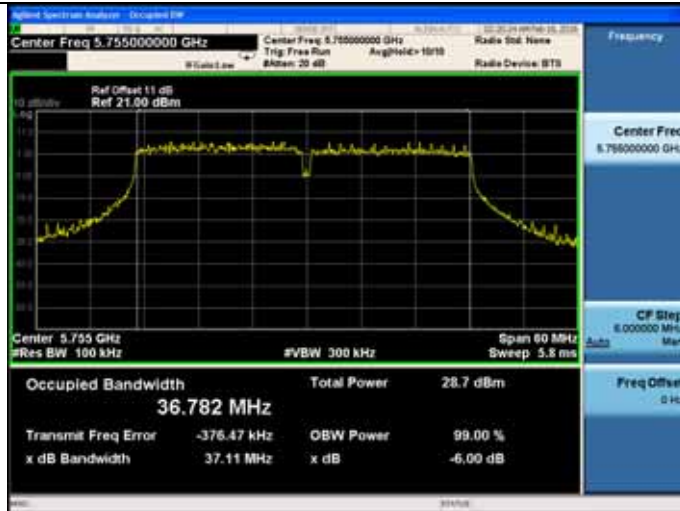


5825MHz

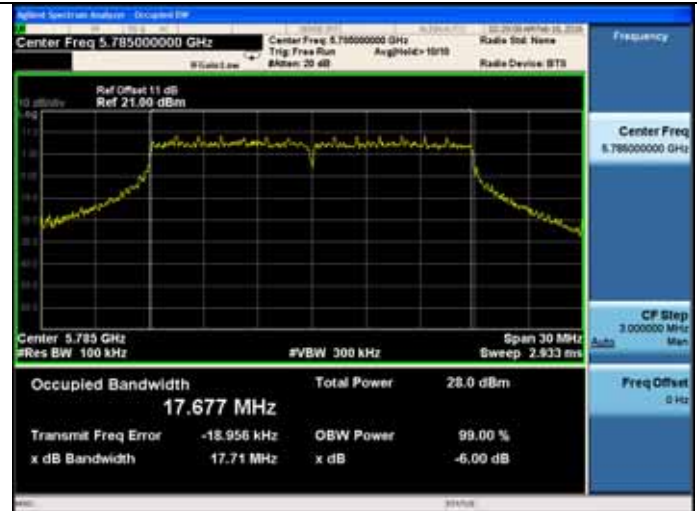


11n HT40

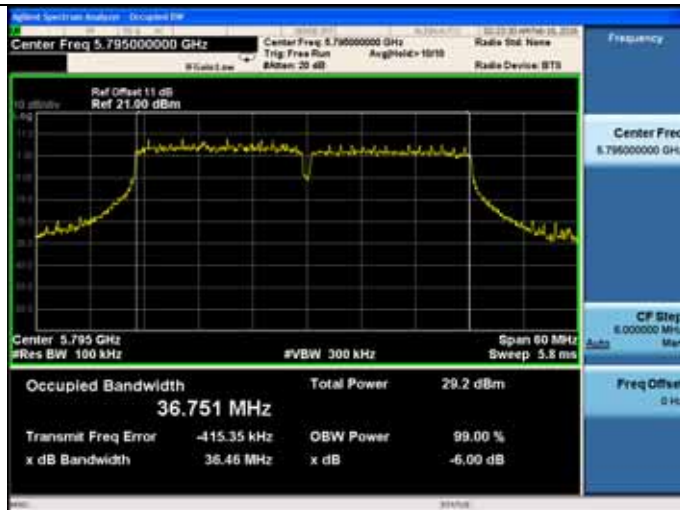
5755MHz



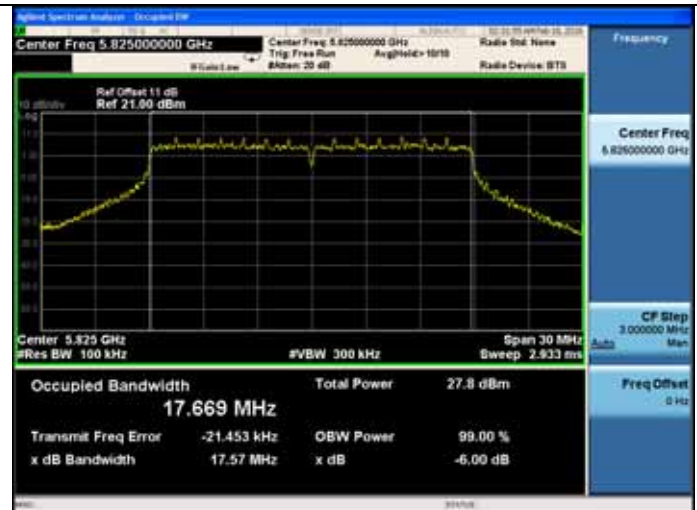
5785MHz



5795MHz

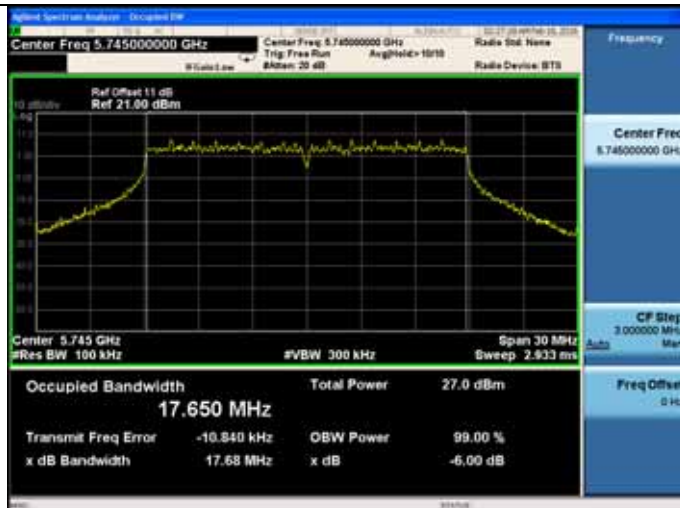


5825MHz



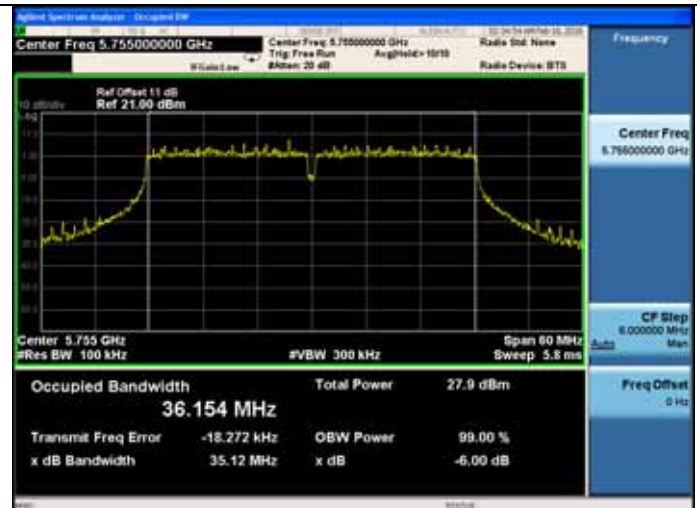
11ac VHT20

5745MHz

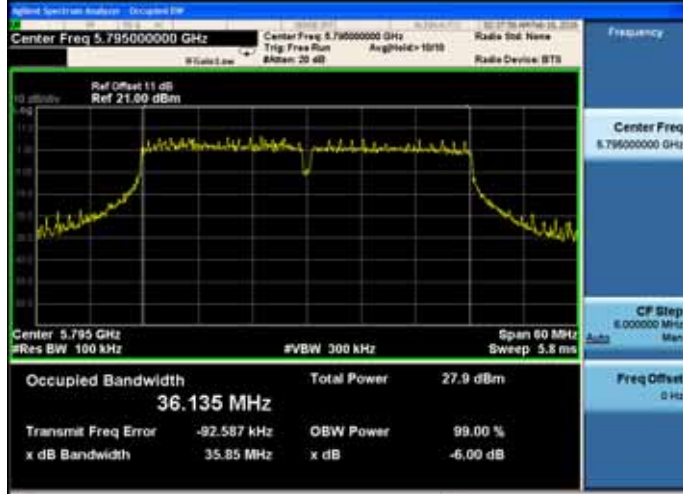


11ac VHT40

5755MHz

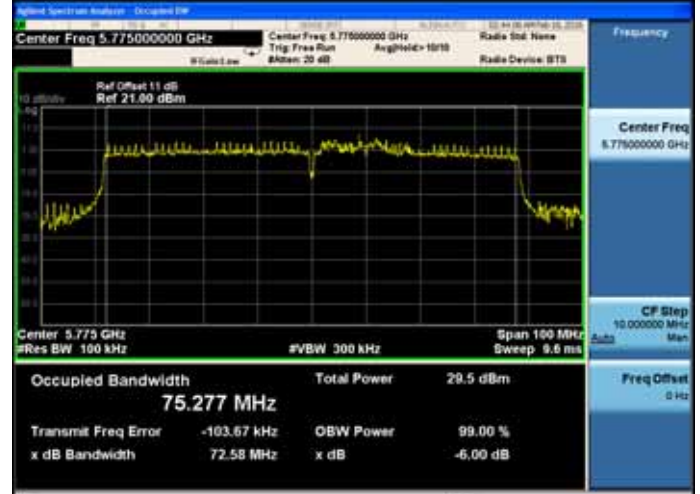


5795MHz



11ac VHT80

5775MHz

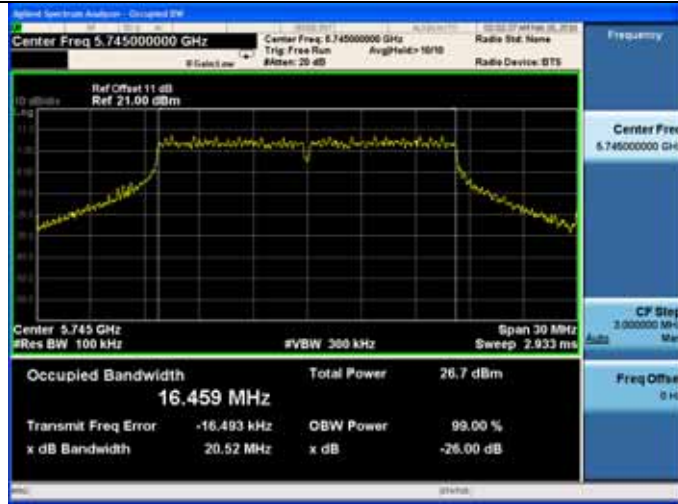


26dB bandwidth

ANT 1

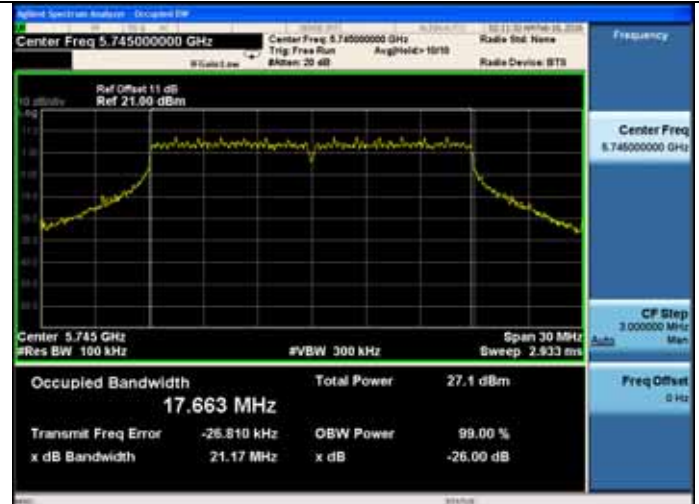
11a

5745MHz

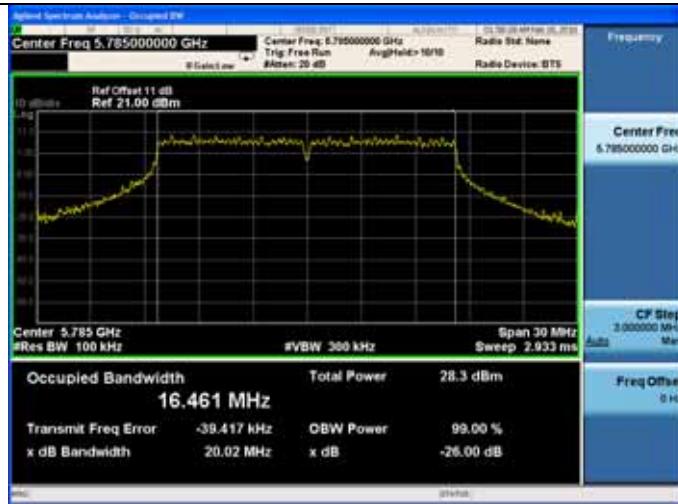


11n HT20

5745MHz



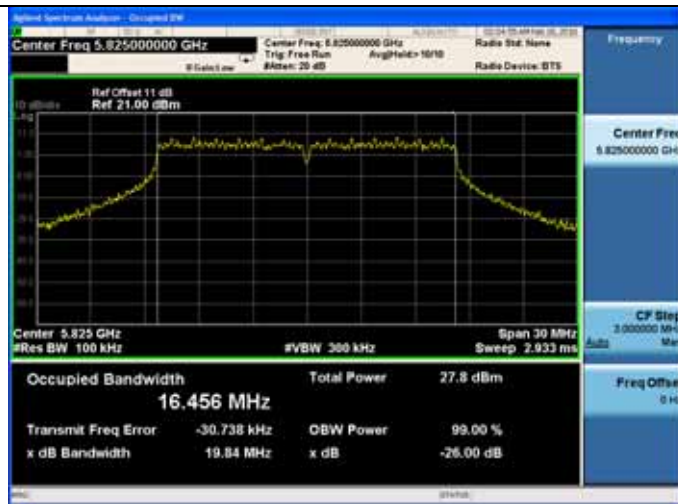
5785MHz



5785MHz



5825MHz

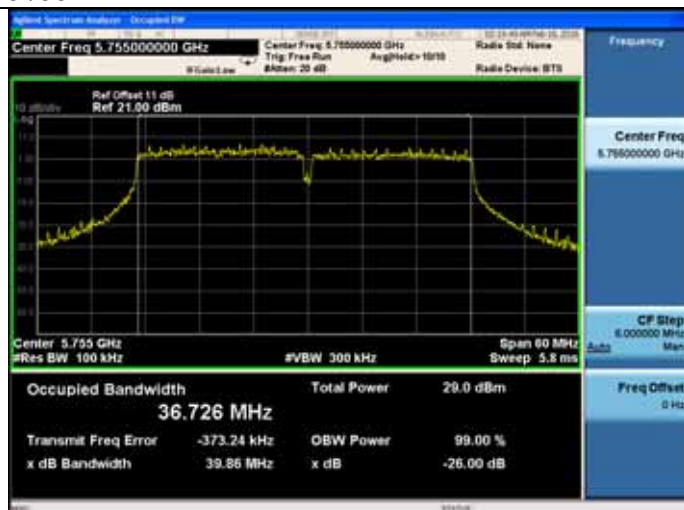


5825MHz

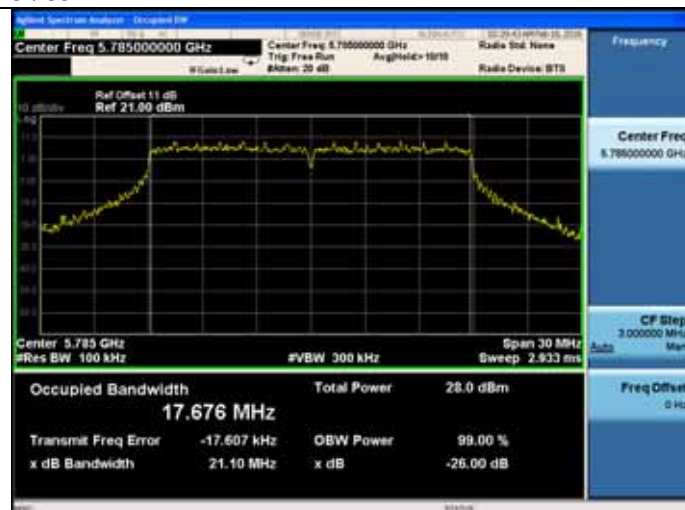


11n HT40

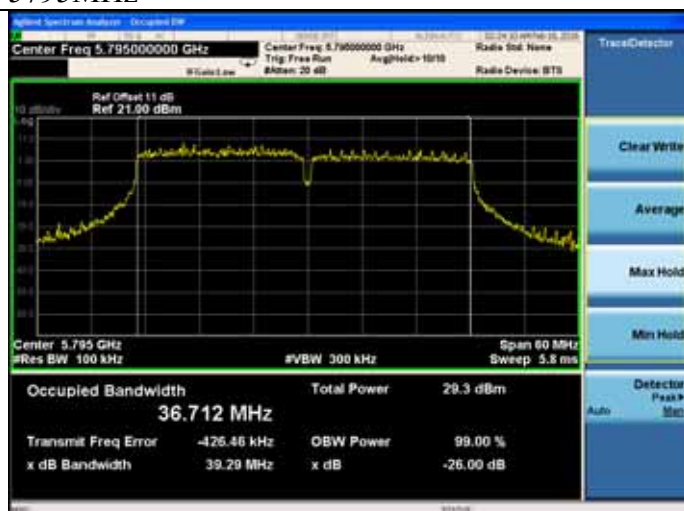
5755MHz



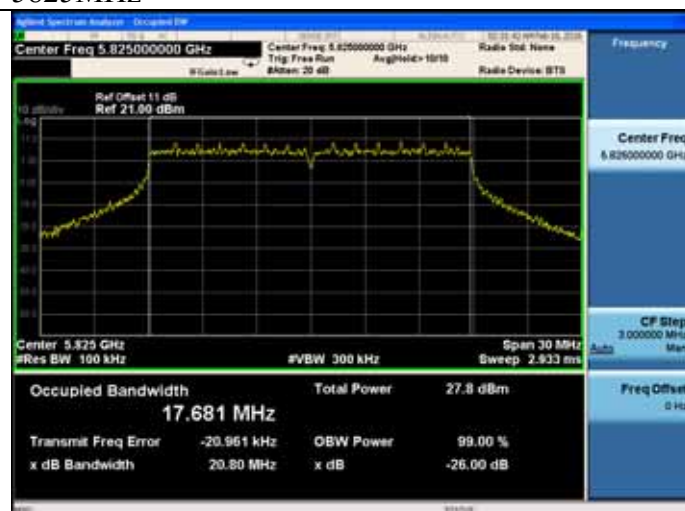
5785MHz



5795MHz

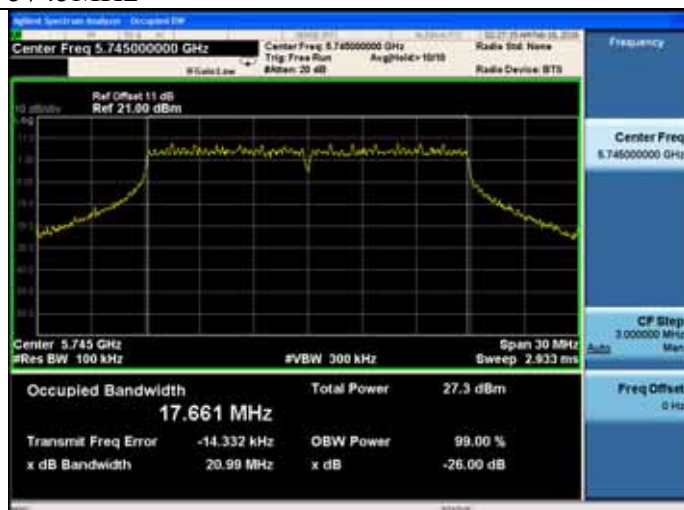


5825MHz



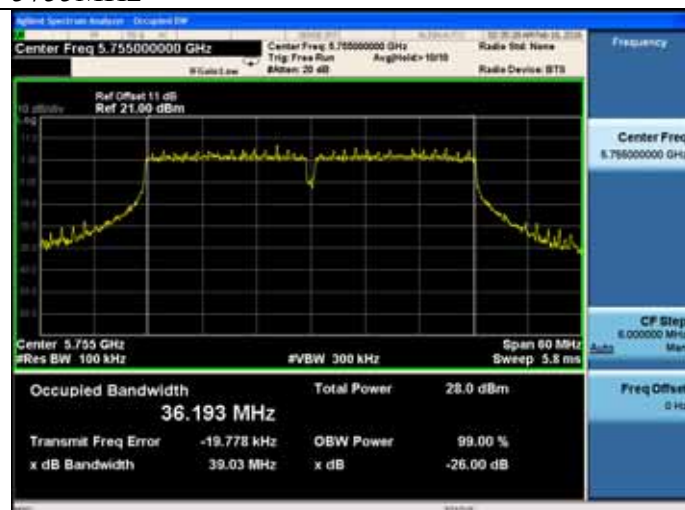
11ac VHT20

5745MHz

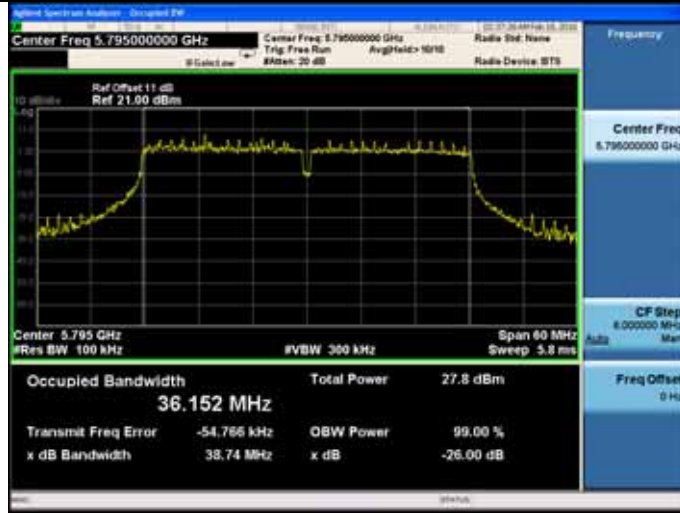


11ac VHT40

5755MHz

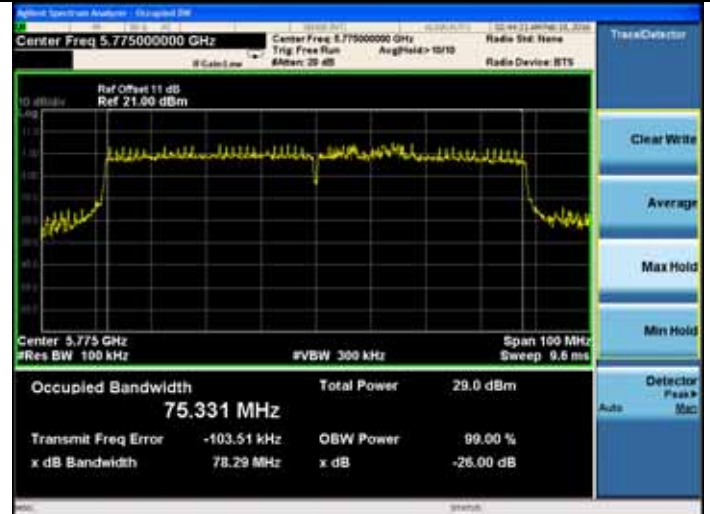


5795MHz



11ac VHT80

5775MHz

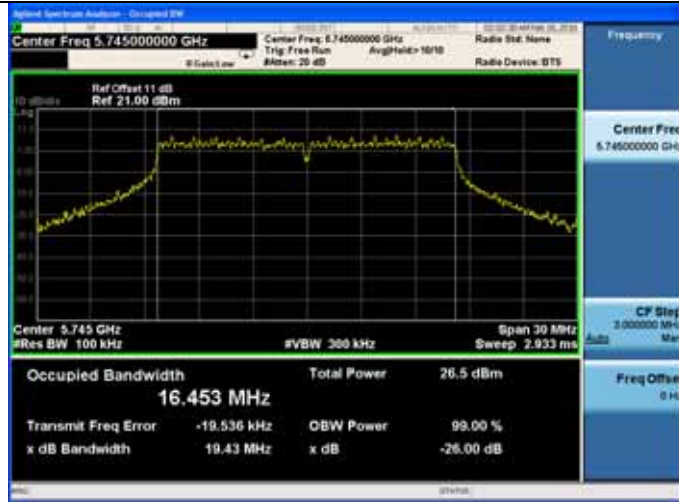


26dB bandwidth

ANT 2

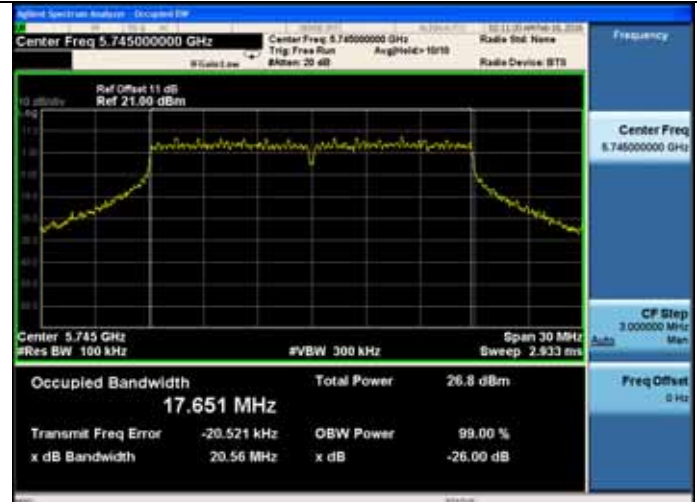
11a

5745MHz

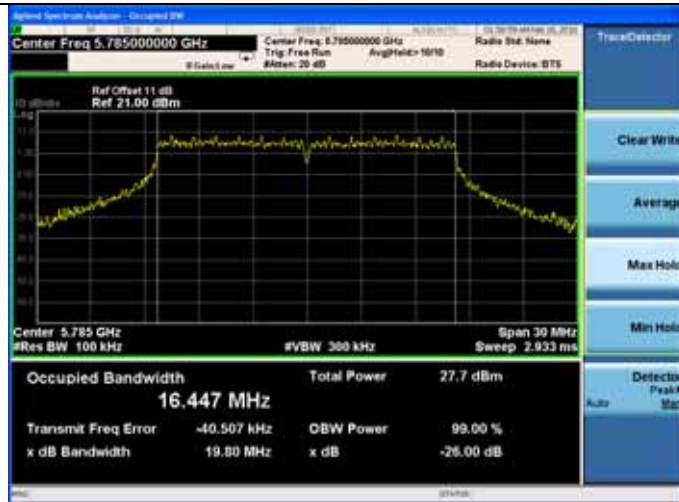


11n HT20

5745MHz



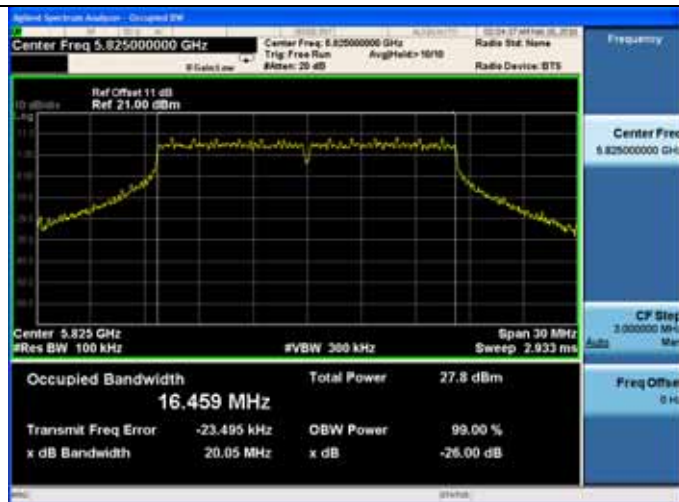
5785MHz



5785MHz



5825MHz

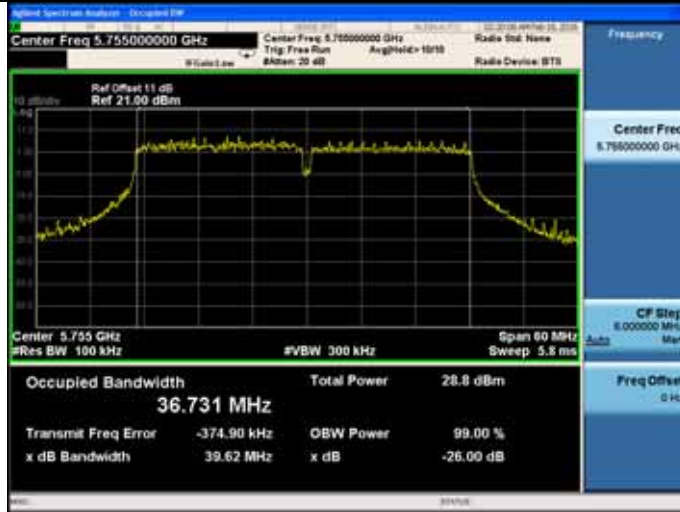


5825MHz

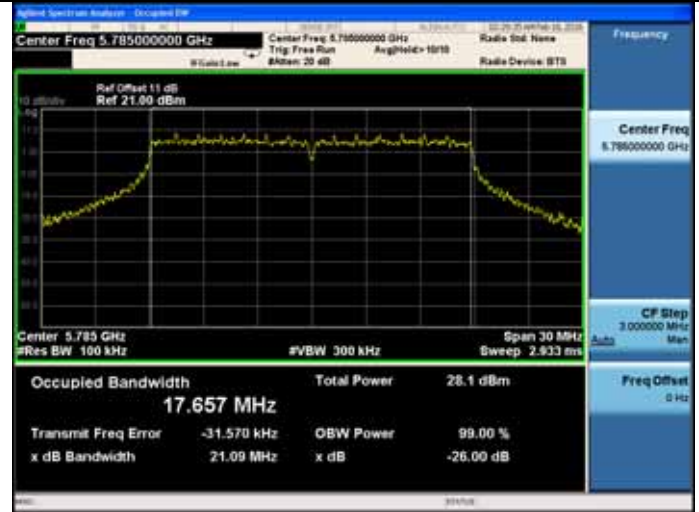


11n HT40

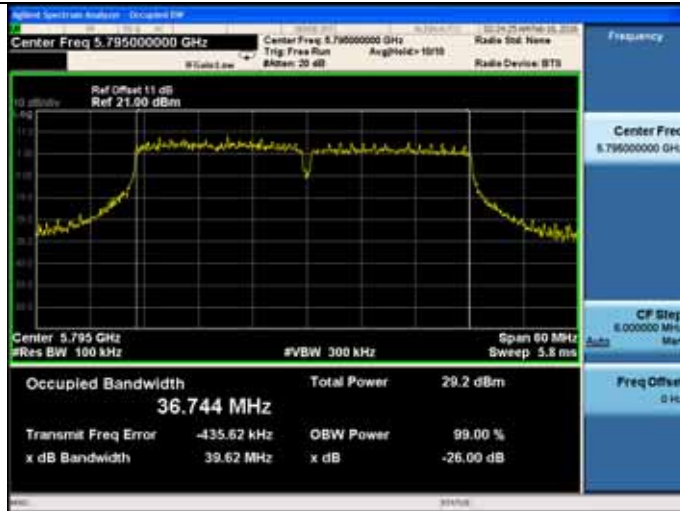
5755MHz



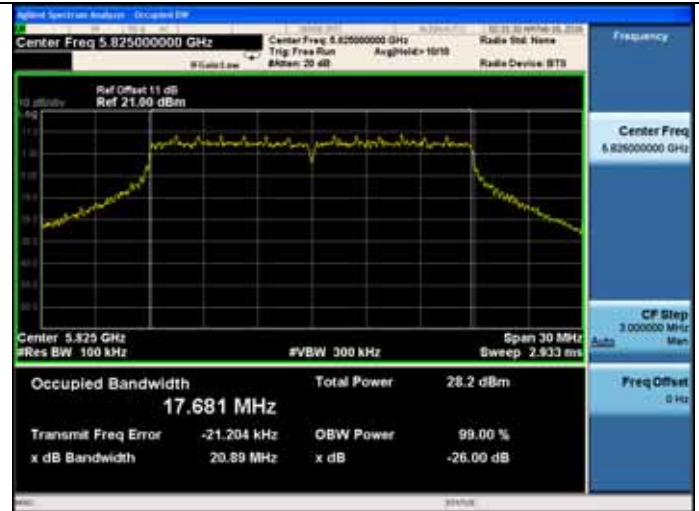
5785MHz



5795MHz

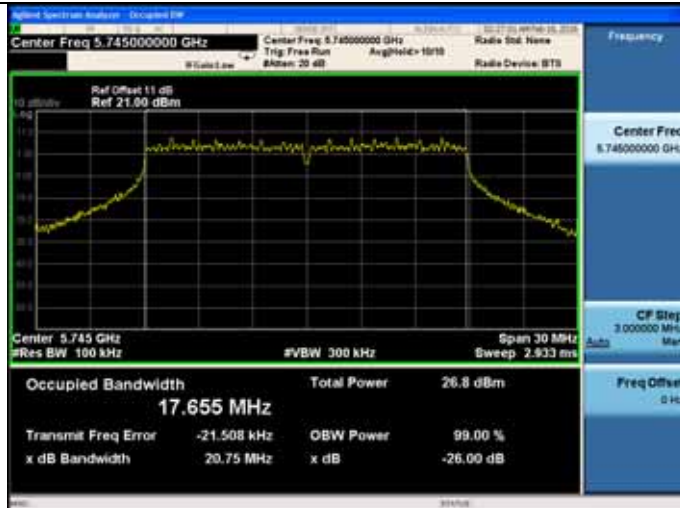


5825MHz



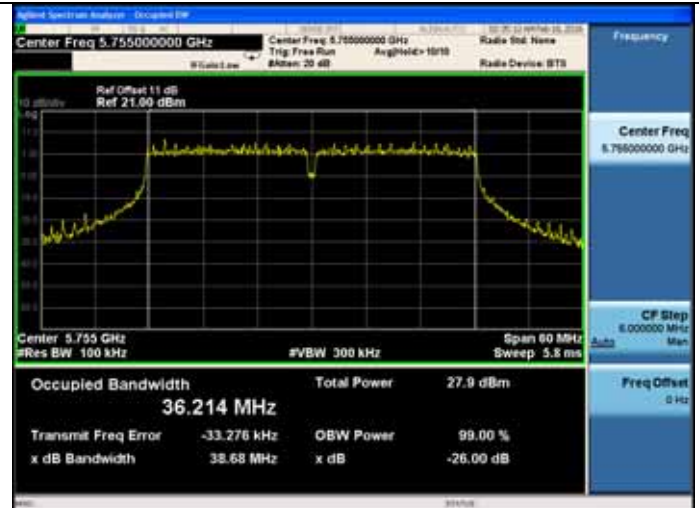
11ac VHT20

5745MHz

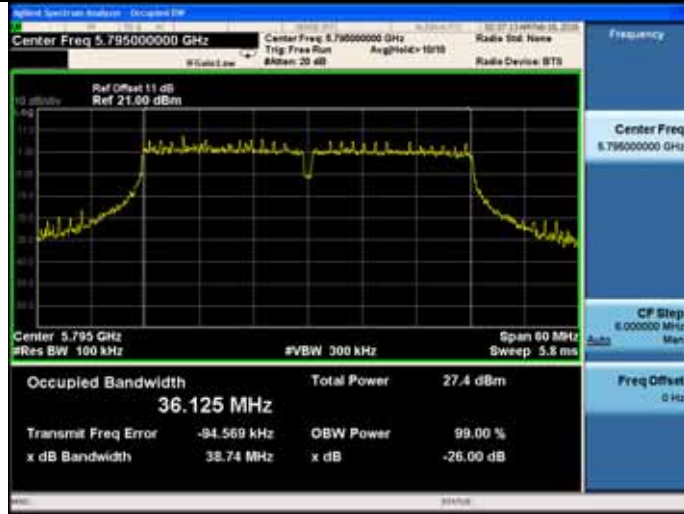


11ac VHT40

5755MHz

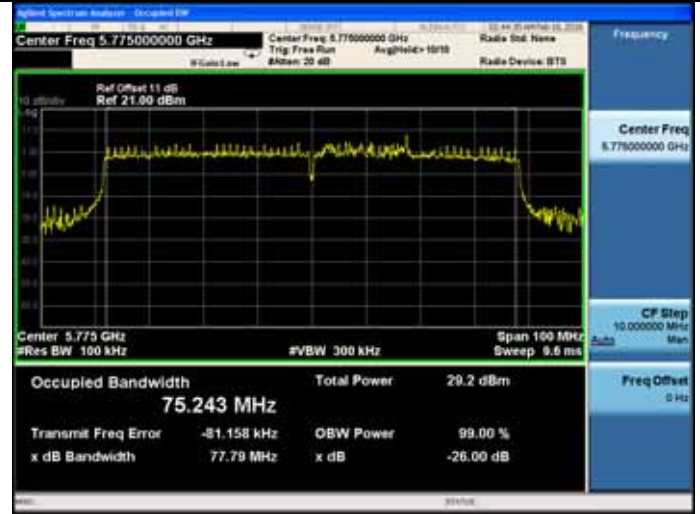


5795MHz



11ac VHT80

5775MHz



7. OUTPUT POWER TEST

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	Apr.28,15	1 Year
2.	Spectrum	Agilent	N9030A	MY51380221	Oct.18,15	1 Year
3.	Power meter	Anritsu	ML2487A	6K00002472	Aug.21,15	1 Year
4.	Power sensor	Anritsu	MA2491A	0033005	Aug.21,15	1 Year
5.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.28,15	1 Year
6.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct.17,15	1 Year

7.2. Limit

For the band 5.15–5.25 GHz.

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

7.3. Test Procedure

1. Connected the EUT's antenna port to measure device by 26dB attenuator.
2. For IEEE 802.11a and IEEE802.11n HT20 and 802.11ac VHT20 mode, use a PK power meter which's bandwidth is 20MHz and above 26dB bandwidth of signal to measure out each test modes' PK output power.
3. For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So use the test method described in KBD789033 clause E Method SA-1
 - 1) Connect the antenna port to the spectrum analyzer and Set span of the spectrum to encompass the entire emission bandwidth (EBW) of the signal.
 - 2) Set the RBW=1MHz and VBW =3MHz
 - 3) Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$
 - 4) Detector = RMS
 - 5) Sweep time = auto couple
 - 6) Allow the sweep to "free run" and set the Trace average at least 100 traces in power averaging (i.e., RMS) mode.
 - 7) Compute power by integrating the spectrum across the 26 dB EBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW band edges.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

7.4. Test Results

EUT: Altai A8n (ac) Super WiFi Base Station					
M/N: WA8011NAC-X					
Test date: 2016-02-18		Pressure:101.8±1.0 kpa		Humidity:50.3±3.0%	
Tested by: Donjon_Huang		Test site: RF site		Temperature:20.2±0.6 °C	
Test Mode	Frequency (MHz)	Maximum Conducted output power (dBm)			Limit (dBm)
		ANT1	ANT2	Total	
11a	5745	11.67	11.57	14.63	13
	5785	12.60	11.78	15.22	13
	5825	12.63	12.03	15.35	13
11n HT20	5745	11.41	11.07	14.25	13
	5785	11.60	11.47	14.55	13
	5825	11.93	10.88	14.45	13
11n HT40	5755	12.49	12.24	15.38	13
	5795	12.43	12.00	15.23	13
11ac VHT20	5745	11.43	11.88	14.67	13
	5785	12.25	11.41	14.86	13
	5825	12.48	11.45	15.01	13
11ac VHT40	5755	11.96	11.76	14.87	13
	5795	12.03	11.87	14.96	13
11ac VHT80	5775	12.35	11.65	15.02	13
Conclusion: PASS					

Directional Gain= $G_{ANT} + 10\log 2$ (dBi)

=20dBi+3dBi

=23dBi>6dBi

Output Power Limit=30dBm-(23dBi-6dBi)

=13dBm

ANT 1

11n HT40

5755MHz



5795MHz



5795MHz



11ac VHT80

5775MHz



11acVHT40

5755MHz



ANT 2

11n HT40

5755MHz



5795MHz



5795MHz



11ac VHT80

5775MHz



11ac VHT40

5755MHz



8. SPECTRAL DENSITY TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	Apr.28,15	1 Year
2.	Spectrum	Agilent	N9030A	MY51380221	Oct.18,15	1 Year
3.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.28,15	1 Year
4.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct.17,15	1 Year

8.2. Limit

Band 5150-5250 MHz:

The e.i.r.p spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Band 5250-5350 MHz:

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

Band 5470-5725 MHz:

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

Band 5725-5850 MHz:

The power spectral density shall not exceed 30 dBm in any 500 KHz band.

8.3. Test Procedure

For the Band 5.15-5.25GHz:

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW; Detector: RMS mode.

For the band 5.725-5.85 GHz:

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW,RMS Detector.

So use the test method described in KDB789033 clause E

- 1) Set the RBW=100kHz and VBW =3MHz
- 2) Number of points in sweep ≥ 2 Span / RBW.(This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)
- 3) Sweep time = auto
- 4) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- 5) Use the “peak search” function of spectrum analyzer find the max value, then add $10\log(500\text{kHz}/\text{RBW})$ to the measured result.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

8.4. Test Results

EUT: Altai A8n (ac) Super WiFi Base Station		
M/N: WA8011NAC-X		
Test date: 2016-02-19	Pressure:101.8±1.0 kpa	Humidity:50.3±3.0%
Tested by: Donjon_Huang	Test site: RF site	Temperature:20.2±0.6 °C

Test Mode	Frequency (MHz)	Power density (dBm/500KHz)			Limit (dBm/500KHz)
		ANT1	ANT2	Total	
11a	5745	-9.9473	-10.1673	-7.05	13
	5785	-9.8283	-10.2873	-7.04	13
	5825	-9.9563	-10.5273	-7.22	13
11n HT20	5745	-10.7803	-11.0053	-7.88	13
	5785	-10.7663	-10.8463	-7.80	13
	5825	-10.2723	-11.2683	-7.73	13
11n HT40	5755	-13.9453	-14.0593	-10.99	13
	5795	-13.7463	-13.4163	-10.57	13
11ac VHT20	5745	-10.3513	-10.1923	-7.26	13
	5785	-9.9713	-9.6933	-6.82	13
	5825	-10.0513	-10.1443	-7.09	13
11ac VHT40	5755	-15.7873	-14.9923	-12.36	13
	5795	-14.9973	-15.0123	-11.99	13
11ac VHT80	5775	-19.7583	-19.7523	-16.74	13
Conclusion: PASS					

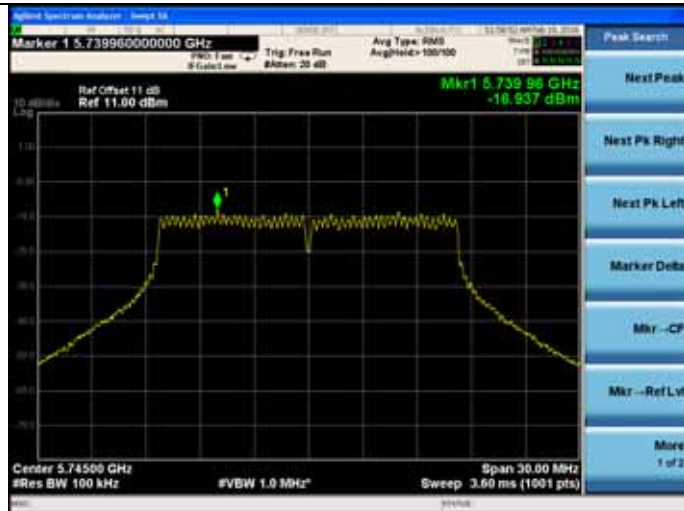
$$\begin{aligned}
 \text{Directional Gain} &= G_{\text{ANT}} + 10\log 2(\text{dBi}) \\
 &= 20\text{dBi} + 3\text{dBi} \\
 &= 23\text{dBi} > 6\text{dBi}
 \end{aligned}$$

$$\begin{aligned}
 \text{Output Power Limit} &= 30\text{dBm} - (23\text{dBi} - 6\text{dBi}) \\
 &= 13\text{dBm}
 \end{aligned}$$

ANT 1

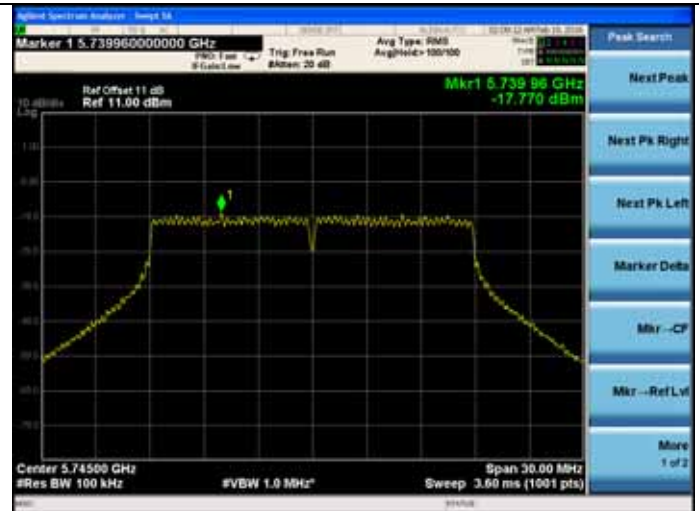
11a

5745MHz

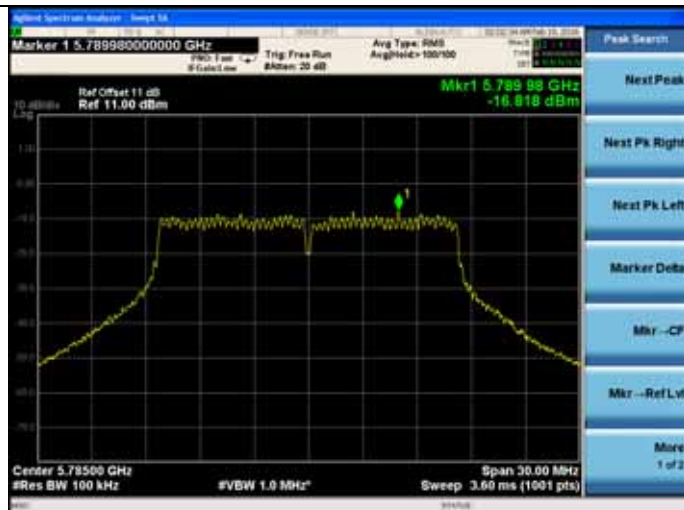


11n HT20

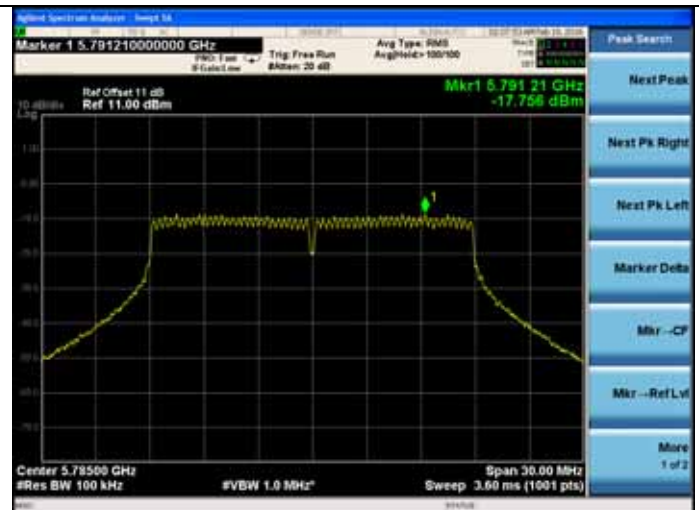
5745MHz



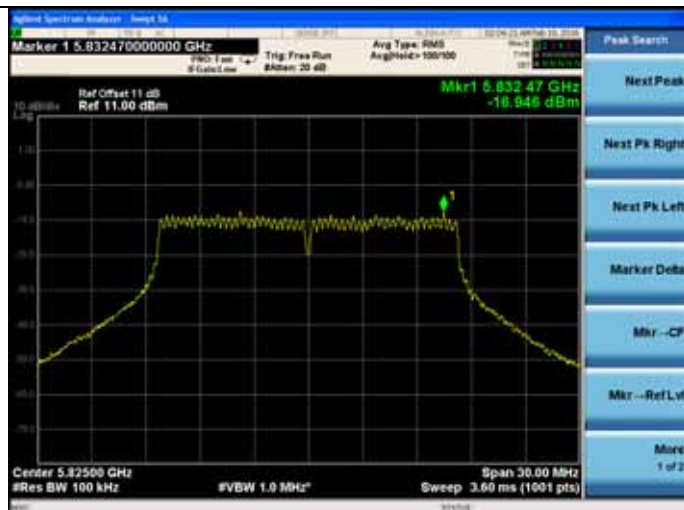
5785MHz



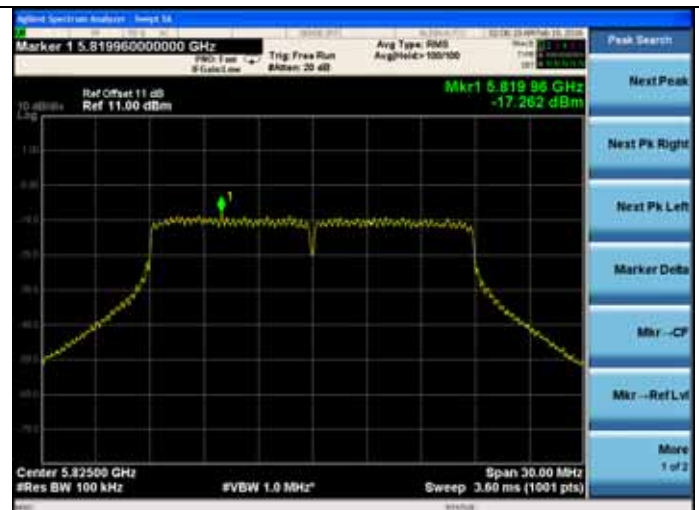
5785MHz



5825MHz



5825MHz

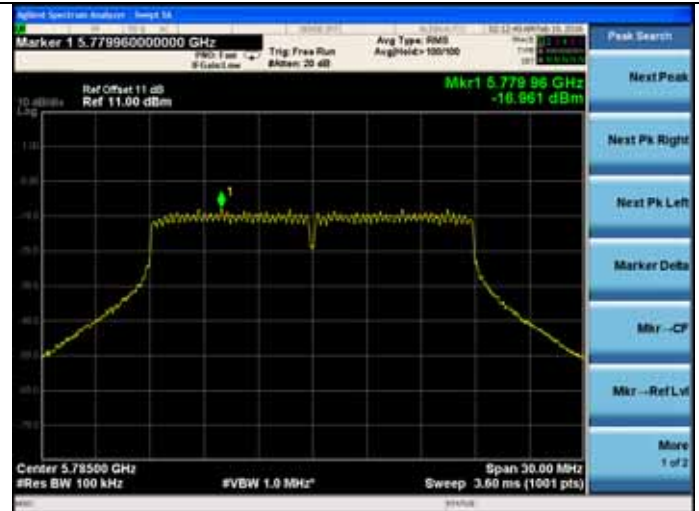


11n HT40

5755MHz



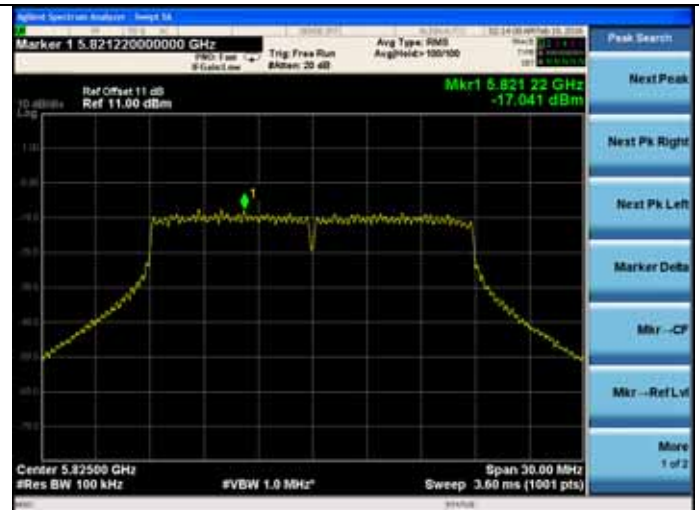
5785MHz



5795MHz

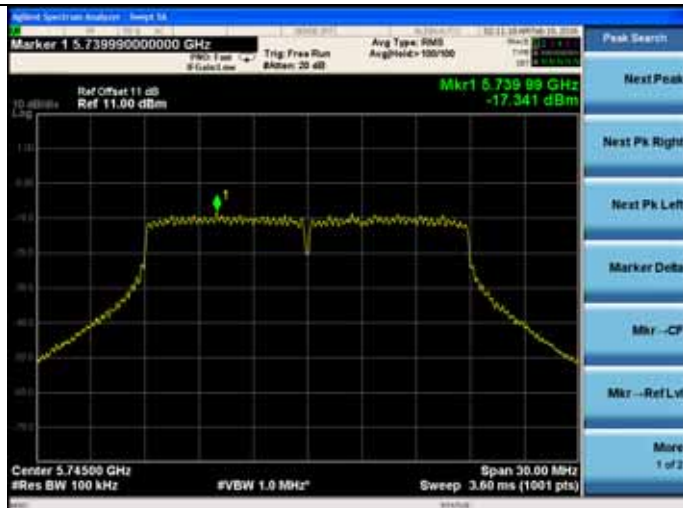


5825MHz



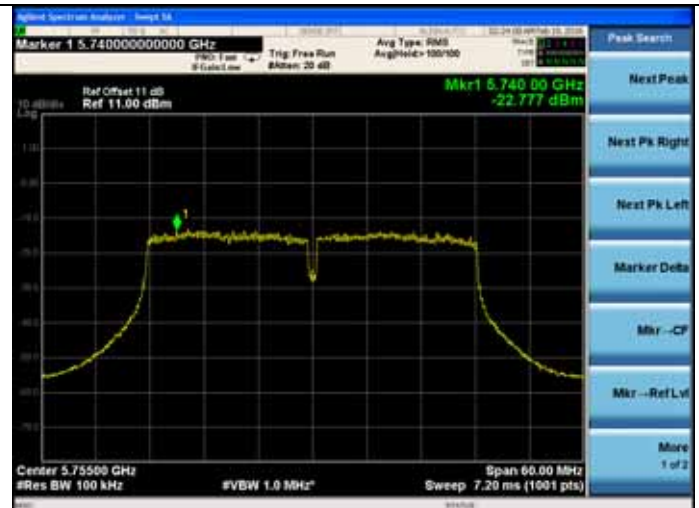
11ac VHT20

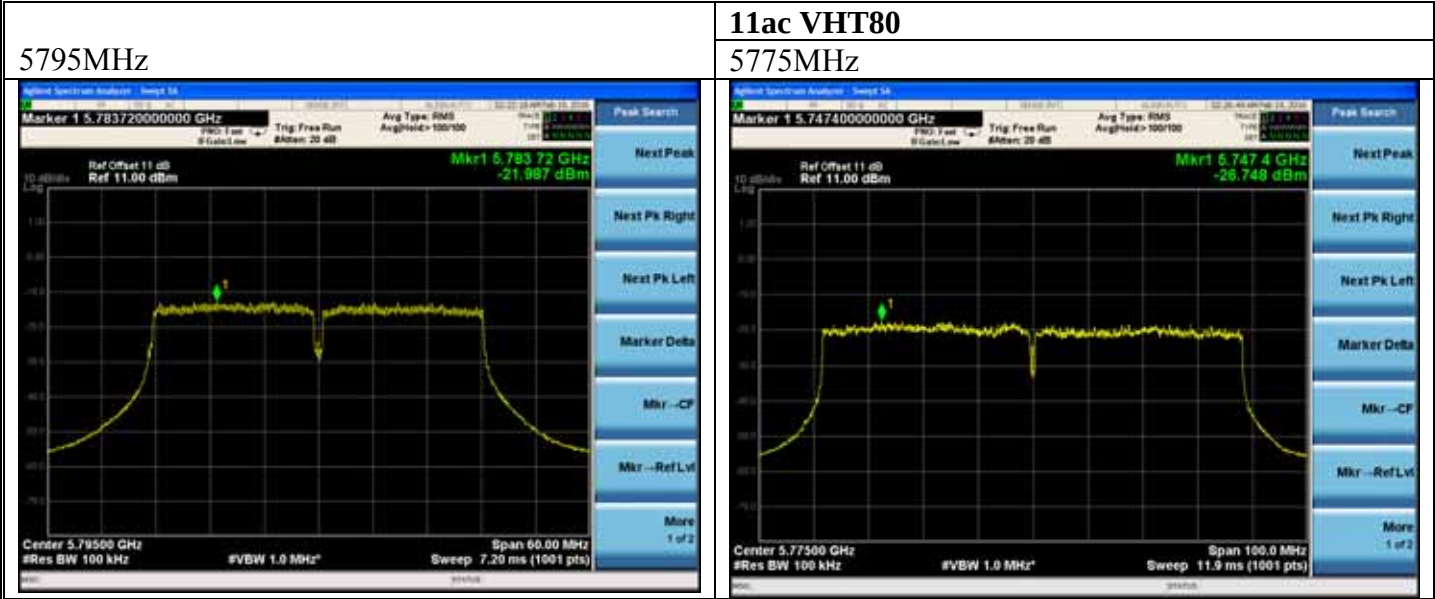
5745MHz



11ac VHT40

5755MHz

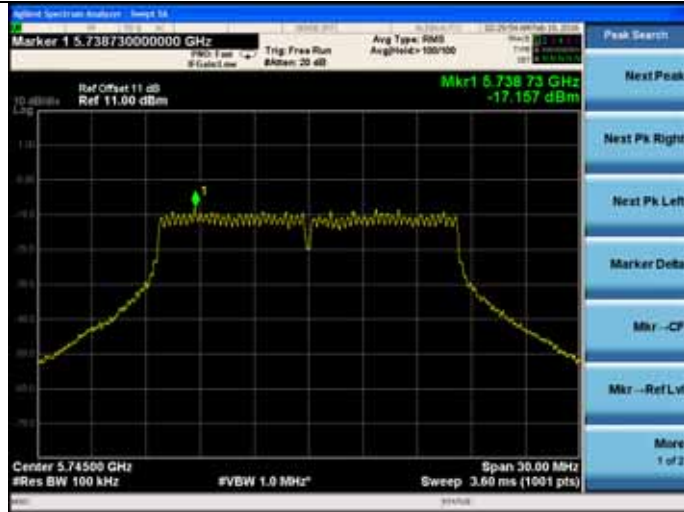




ANT 2

11a

5745MHz

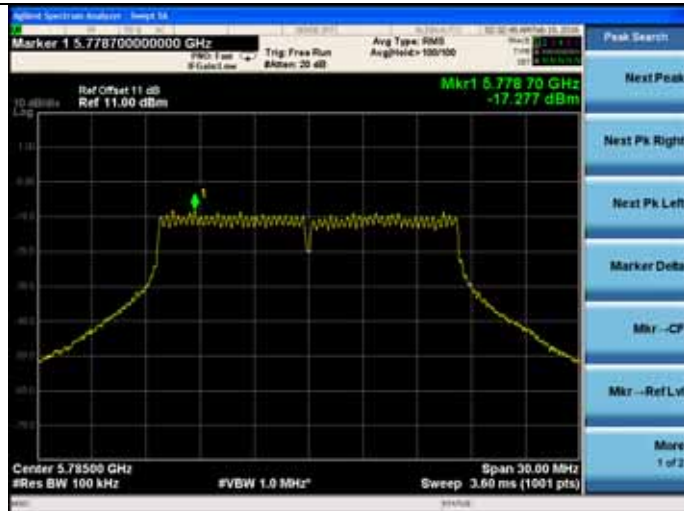


11n HT20

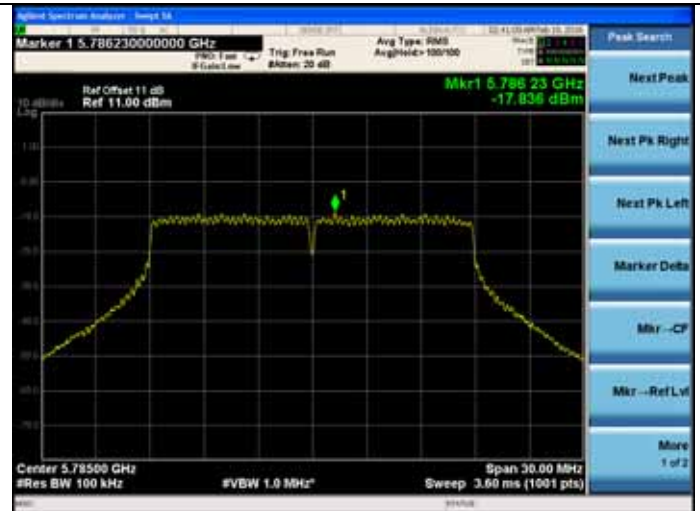
5745MHz



5785MHz



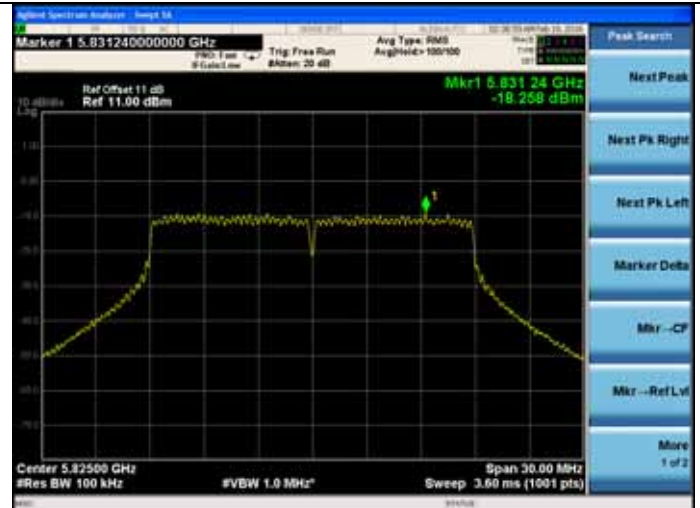
5785MHz



5825MHz



5825MHz



11n HT40

5755MHz



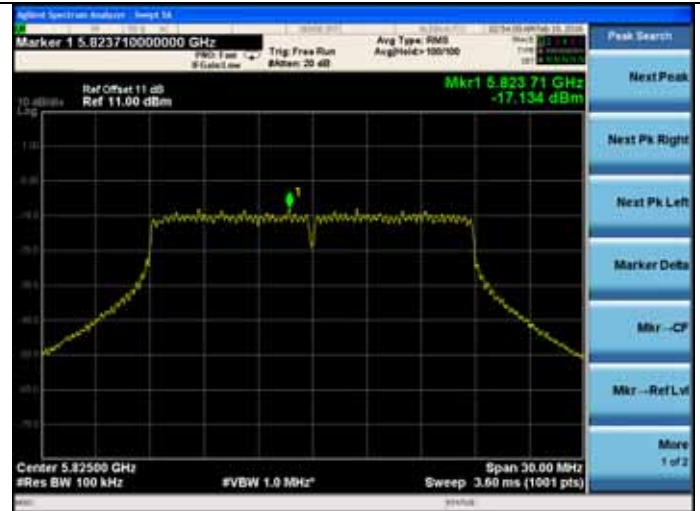
5785MHz



5795MHz

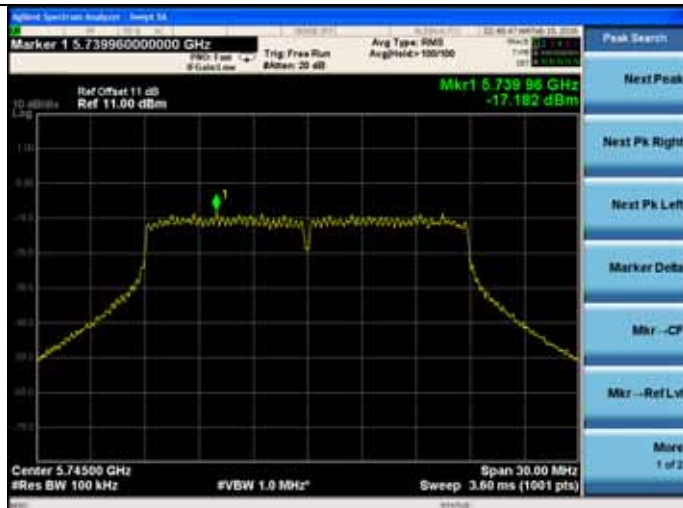


5825MHz



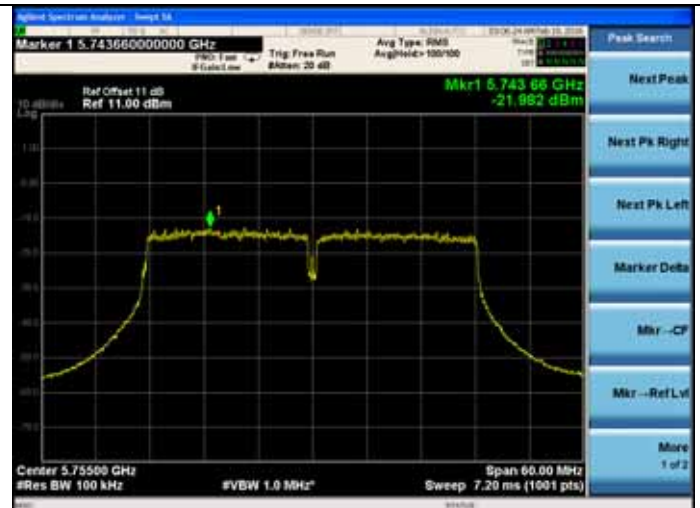
11ac VHT20

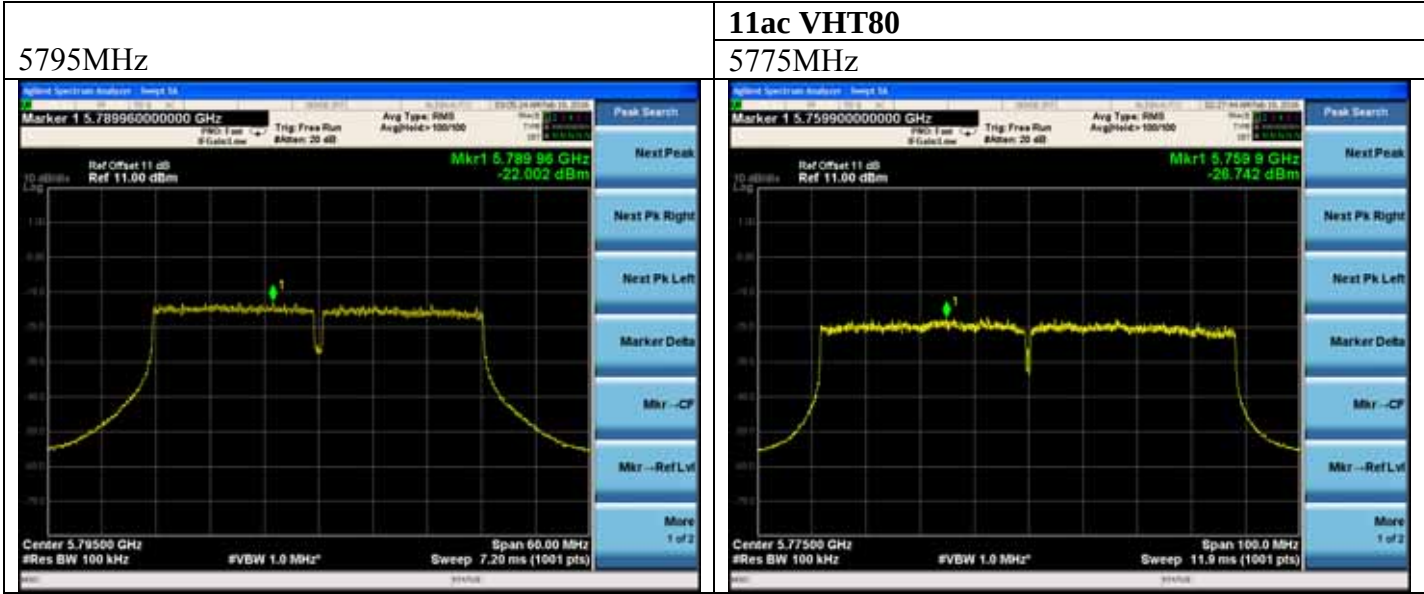
5745MHz



11ac VHT40

5755MHz





9. FREQUENCY STABILITY MEASUREMENT

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Oct.18,15	1 Year
2.	Amplifier	Agilent	8449B	3008A02495	Apr.28,15	1 Year
3.	Horn Antenna	ETS	3115	9510-4877	Oct.15,15	1 Year
4.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr.28,15	1 Year

9.2. Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emissions is maintained within the band of operation under all conditions of normal operation as specified in the user's manual or $\pm 20\text{ppm}$

9.3. Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer. EUT have transmitted absence of modulation signal and fixed channelise. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6 \text{ ppm}$ and the limit is less than $\pm 20\text{ppm}$ The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
2. Extreme temperature rule is $-30^\circ\text{C} \sim 50^\circ\text{C}$.

9.4. Test Result

EUT: Altai A8n (ac) Super WiFi Base Station		
M/N: WA8011NAC-X		
Test date: 2016-02-26	Pressure:101.8±1.0 kpa	Humidity:50.8±3.0%
Tested by: Donjon_Huang	Test site: RF site	Temperature:20.9±0.6 °C

Frequency Stability vs Voltage:

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 108V	25°C	CH149	5745.033	5745	5.74	±20
		CH151	5755.029	5755	5.04	±20
		CH155	5775.038	5775	6.58	±20
		CH157	5785.029	5785	5.01	±20
		CH159	5795.025	5795	4.31	±20
		CH165	5825.034	5825	5.84	±20

Conclusion: PASS

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 120V	25°C	CH149	5745.036	5745	6.27	±20
		CH151	5755.031	5755	5.39	±20
		CH155	5775.029	5775	5.02	±20
		CH157	5785.034	5785	5.88	±20
		CH159	5795.036	5795	6.21	±20
		CH165	5825.029	5825	4.98	±20

Conclusion: PASS

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 132V	25°C	CH149	5745.029	5745	5.05	±20
		CH151	5755.030	5755	5.21	±20
		CH155	5775.029	5775	5.02	±20
		CH157	5785.034	5785	5.89	±20
		CH159	5795.028	5795	4.83	±20
		CH165	5825.026	5825	4.46	±20

Conclusion: PASS

Frequency Stability vs. Temperature:

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 120V	-45°C	CH149	5745.022	5745	3.83	±20
		CH151	5755.046	5755	7.99	±20
		CH155	5775.038	5775	6.58	±20
		CH157	5785.026	5785	4.49	±20
		CH159	5795.041	5795	7.08	±20
		CH165	5825.029	5825	4.98	±20

Conclusion: PASS

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 120V	-35°C	CH149	5745.028	5745	4.87	±20
		CH151	5755.039	5755	6.78	±20
		CH155	5775.027	5775	4.68	±20
		CH157	5785.035	5785	6.05	±20
		CH159	5795.042	5795	7.25	±20
		CH165	5825.031	5825	5.32	±20
Conclusion: PASS						

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 120V	-25°C	CH149	5745.031	5745	5.40	±20
		CH151	5755.029	5755	5.04	±20
		CH155	5775.036	5775	6.23	±20
		CH157	5785.042	5785	7.26	±20
		CH159	5795.038	5795	6.56	±20
		CH165	5825.052	5825	8.93	±20
Conclusion: PASS						

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 120V	-15°C	CH149	5745.026	5745	4.53	±20
		CH151	5755.033	5755	5.73	±20
		CH155	5775.047	5775	8.14	±20
		CH157	5785.035	5785	6.05	±20
		CH159	5795.034	5795	5.87	±20
		CH165	5825.021	5825	3.61	±20
Conclusion: PASS						

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 120V	-5°C	CH149	5745.034	5745	5.92	±20
		CH151	5755.027	5755	4.69	±20
		CH155	5775.029	5775	5.02	±20
		CH157	5785.031	5785	5.36	±20
		CH159	5795.037	5795	6.38	±20
		CH165	5825.029	5825	4.98	±20
Conclusion: PASS						

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 120V	5°C	CH149	5745.037	5745	6.44	±20
		CH151	5755.041	5755	7.12	±20
		CH155	5775.028	5775	4.85	±20
		CH157	5785.026	5785	4.49	±20
		CH159	5795.051	5795	8.80	±20
		CH165	5825.039	5825	6.70	±20
Conclusion: PASS						

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 120V	15°C	CH149	5745.029	5745	5.05	±20
		CH151	5755.035	5755	6.08	±20
		CH155	5775.028	5775	4.85	±20
		CH157	5785.034	5785	5.88	±20
		CH159	5795.026	5795	4.49	±20
		CH165	5825.027	5825	4.64	±20
Conclusion: PASS						

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 120V	25°C	CH149	5745.034	5745	5.92	±20
		CH151	5755.029	5755	5.04	±20
		CH155	5775.036	5775	6.23	±20
		CH157	5785.042	5785	7.26	±20
		CH159	5795.039	5795	6.73	±20
		CH165	5825.043	5825	7.38	±20
Conclusion: PASS						

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 120V	35°C	CH149	5745.030	5745	5.22	±20
		CH151	5755.031	5755	5.39	±20
		CH155	5775.041	5775	7.10	±20
		CH157	5785.039	5785	6.74	±20
		CH159	5795.028	5795	4.83	±20
		CH165	5825.031	5825	5.32	±20
Conclusion: PASS						

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 120V	45°C	CH149	5745.029	5745	5.05	±20
		CH151	5755.031	5755	5.39	±20
		CH155	5775.029	5775	5.02	±20
		CH157	5785.027	5785	4.67	±20
		CH159	5795.034	5795	5.87	±20
		CH165	5825.038	5825	6.52	±20
Conclusion: PASS						

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 120V	55°C	CH149	5745.031	5745	5.39	±20
		CH151	5755.036	5755	6.26	±20
		CH155	5775.029	5775	5.02	±20
		CH157	5785.031	5785	5.36	±20
		CH159	5795.042	5795	7.25	±20
		CH165	5825.029	5825	4.98	±20
Conclusion: PASS						

Test Voltage (V)	Temp (°C)	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)	Limit (ppm)
AC 120V	65°C	CH149	5745.028	5745	4.87	±20
		CH151	5755.036	5755	6.26	±20
		CH155	5775.029	5775	5.02	±20
		CH157	5785.038	5785	6.57	±20
		CH159	5795.036	5795	6.21	±20
		CH165	5825.039	5825	6.70	±20
Conclusion: PASS						

10. MPE ESTIMATION

10.1. Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Note: F= Frequency in MHz

10.2. Estimation Result

EUT: Altai A8n (ac) Super WiFi Base Station		
M/N: WA8011NAC-X		
Test date: 2016-02-25	Pressure: 101.3±1.0 kpa	Humidity: 50.2±3.0%
Tested by: Donjon_Huang	Test site: RF site	Temperature:20.4±0.6 °C

Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	5745	14.63	29.04	20	100.00	0.5780
	5785	15.22	33.27	20	100.00	0.6621
	5825	15.35	34.28	20	100.00	0.6823
11n HT20	5745	14.25	26.61	20	100.00	0.5296
	5785	14.55	28.51	20	100.00	0.5675
	5825	14.45	27.86	20	100.00	0.5546
11n HT40	5755	15.38	34.51	20	100.00	0.6870
	5795	15.23	33.34	20	100.00	0.6637
11ac VHT20	5745	14.67	29.31	20	100.00	0.5834
	5785	14.86	30.62	20	100.00	0.6095
	5825	15.01	31.70	20	100.00	0.6309
11ac VHT40	5755	14.87	30.69	20	100.00	0.6109
	5795	14.96	31.33	20	100.00	0.6237
11ac VHT80	5775	15.02	31.77	20	100.00	0.6323

$$MPE = \frac{PG}{4\pi R^2} \quad (R=20 \text{ cm})$$

11. ANTENNA REQUIREMENT

11.1. 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 15.407 (a), 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.

11.2. Antenna Connected Construction

The antennas used for this product are Omni Antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 20 dBi.

12. DEVIATION TO TEST SPECIFICATIONS

[NONE]