FCC PART 15E TEST REPORT FOR CERTIFICATION
On Behalf of

Altai Technologies Limited

Altai A8-Ein (ac) Super WiFi Base Station

Model Number: WA8011NAC

FCC ID: UCC-WA8011NAC

Prepared for : Altai Technologies Limited
Units 209, 2/F, Lakeside 2.10 Science Park West Avenue,
Hong Kong Science Park, Shatin, Hong Kong, China

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
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Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

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Report Number	:	ACS-F15305
Date of Test	:	Sep.15~Oct.14, 2015
Date of Report	:	Dec.14, 2015

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TEST REPORT CERTIFICATION

Applicant	:	Altai Technologies Limited
Manufacturer	:	Altai Technologies Limited
EUT Description	:	Altai A8-Ein (ac) Super WiFi Base Station
FCC ID	:	UCC-WA8011NAC
(A) Model No.	:	WA8011NAC
(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 C: 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 : Sep.15~Oct.14, 2015 Report of date: Dec.14, 2015

Prepared by : Kayli He
Kayli He / Assistant

Reviewed by :
Sunny Lu / Assistant Manager

AUDIX® 信華科技（深圳）有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章
Stamp only for EMC Dept. Report
Signature: David Jin

Approved & Authorized Signer :
David Jin / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

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

EMISSION		
Description of Test Item	**Standard**	**Results**
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)	N/A
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 A8-Ein (ac) Super WiFi Base Station
Model Number	: WA8011NAC
FCC ID	: UCC-WA8011NAC
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	: WIFI 2.4GHz: Sector Antenna, 19dBi WIFI 5GHz: Panel Antenna, 20dBi
Applicant	: Altai Technologies Limited Units 209, 2/F, Lakeside 2.10 Science Park West Avenue, Hong Kong Science Park, Shatin, Hong Kong, China
Manufacturer	: Altai Technologies Limited Units 209, 2/F, Lakeside 2.10 Science Park West Avenue, Hong Kong Science Park, Shatin, Hong Kong, China
Date of Test	: Sep.15~Oct.14, 2015
Date of Receipt	: Aug.25, 2015
Sample Type	: Prototype production

2.2. Test Information

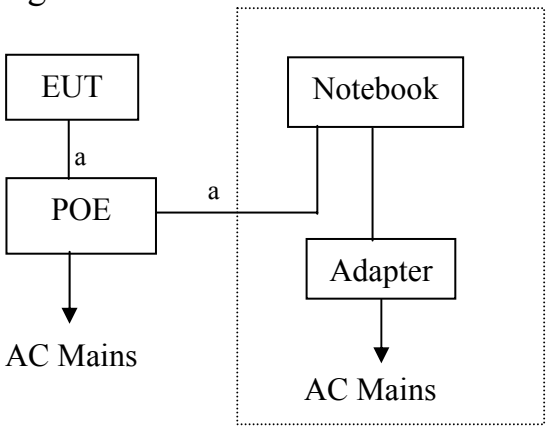
A special test software was used to control EUT work in Continuous TX mode (nearly 100% duty cycle), and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information			
Mode	data rate (Mpbs)(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. 11a use CDD Mode and 11ac/n 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



a: LAN Cable

(EUT: Altai A8-Ein (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, 2016

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

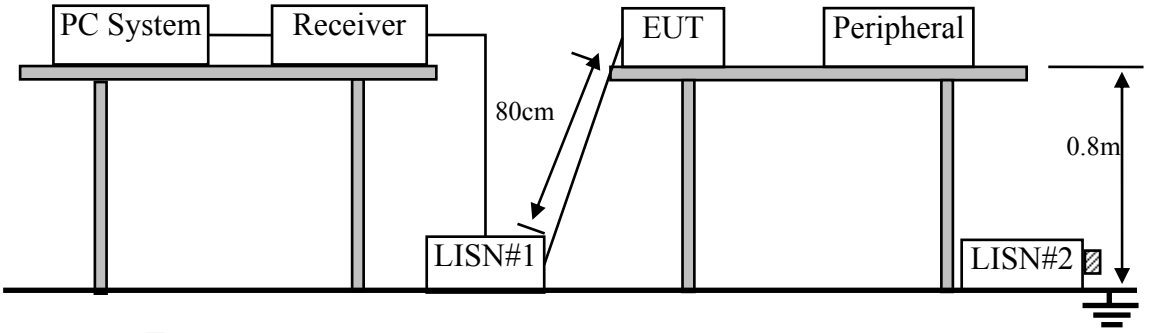
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.4dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	2.6 dB(30~200MHz, Polarization: H)
	2.6 dB(30~200MHz, Polarization: V)
	3.0 dB(200M~1GHz, Polarization: H)
	2.8 dB(200M~1GHz, Polarization: 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℃
	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.29,14	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	1Year
8.	Coaxial Switch	Anritsu	MP59B	6200766906	Apr.28,15	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101838	Oct.29,14	1 Year
10.	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 A8-Ein (ac) Super WiFi Base Station (EUT)

Model Number : WA8011NAC
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

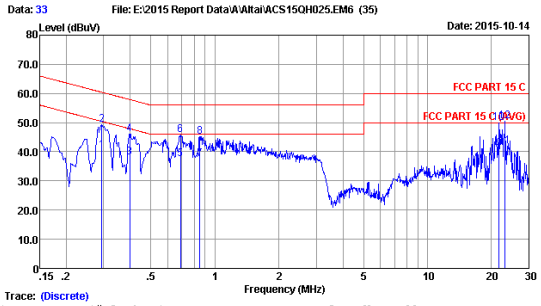
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). 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.)

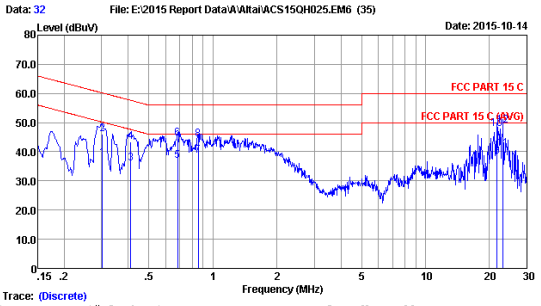


Trace: (Discrete)

Site no :1# Conduction Data No :33
Dis./Lisn :2014 ESH2-Z5 LINE
Limit :FCC PART 15 C
Env./Ins. :25.4*C/55% Engineer :Leo-Li
EUT :Altai A8-Ein (ac) Super WiFi Base Station
Power Rating :DC 56V From Adapter Input AC 230V/50Hz
Test Mode :Tx Mode
M/N:WA8011NAC

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.294	0.13	9.94	30.28	40.35	50.41	10.06	Average
2	0.294	0.13	9.94	39.33	49.40	60.41	11.01	QP
3	0.398	0.83	9.94	27.45	38.22	47.90	9.68	Average
4	0.398	0.83	9.94	35.35	46.12	57.90	11.78	QP
5	0.690	0.14	9.95	27.36	37.45	46.00	8.55	Average
6	0.690	0.14	9.95	35.64	45.73	56.00	10.27	QP
7	0.848	0.15	9.95	27.52	37.62	46.00	8.38	Average
8	0.848	0.15	9.95	35.00	45.10	56.00	10.90	QP
9	21.715	0.66	10.16	30.24	41.06	50.00	8.94	Average
10	21.715	0.66	10.16	39.17	49.99	60.00	10.01	QP
11	23.140	0.65	10.17	31.22	42.04	50.00	7.96	Average
12	23.140	0.65	10.17	39.51	50.33	60.00	9.67	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Trace: (Discrete)

Site no :1# Conduction Data No :32
Dis./Lisn :2014 ESH2-Z5 NEUTRAL
Limit :FCC PART 15 C
Env./Ins. :25.4*C/55% Engineer :Leo-Li
EUT :Altai A8-Ein (ac) Super WiFi Base Station
Power Rating :DC 56V From Adapter Input AC 230V/50Hz
Test Mode :Tx Mode
M/N:WA8011NAC

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.302	0.15	9.94	27.56	37.65	50.19	12.54	Average
2	0.302	0.15	9.94	36.10	46.19	60.19	14.00	QP
3	0.410	0.15	9.94	25.88	35.97	47.64	11.67	Average
4	0.410	0.15	9.94	33.28	43.37	57.64	14.27	QP
5	0.683	0.16	9.95	26.75	36.86	46.00	9.14	Average
6	0.683	0.16	9.95	34.57	44.68	56.00	11.32	QP
7	0.853	0.17	9.95	28.56	38.68	46.00	7.32	Average
8	0.853	0.17	9.95	34.08	44.20	56.00	11.80	QP
9	21.715	0.76	10.16	27.31	38.23	50.00	11.77	Average
10	21.715	0.76	10.16	36.84	47.76	60.00	12.24	QP
11	23.140	0.77	10.17	30.12	41.06	50.00	8.94	Average
12	23.140	0.77	10.17	38.19	49.13	60.00	10.87	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+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)

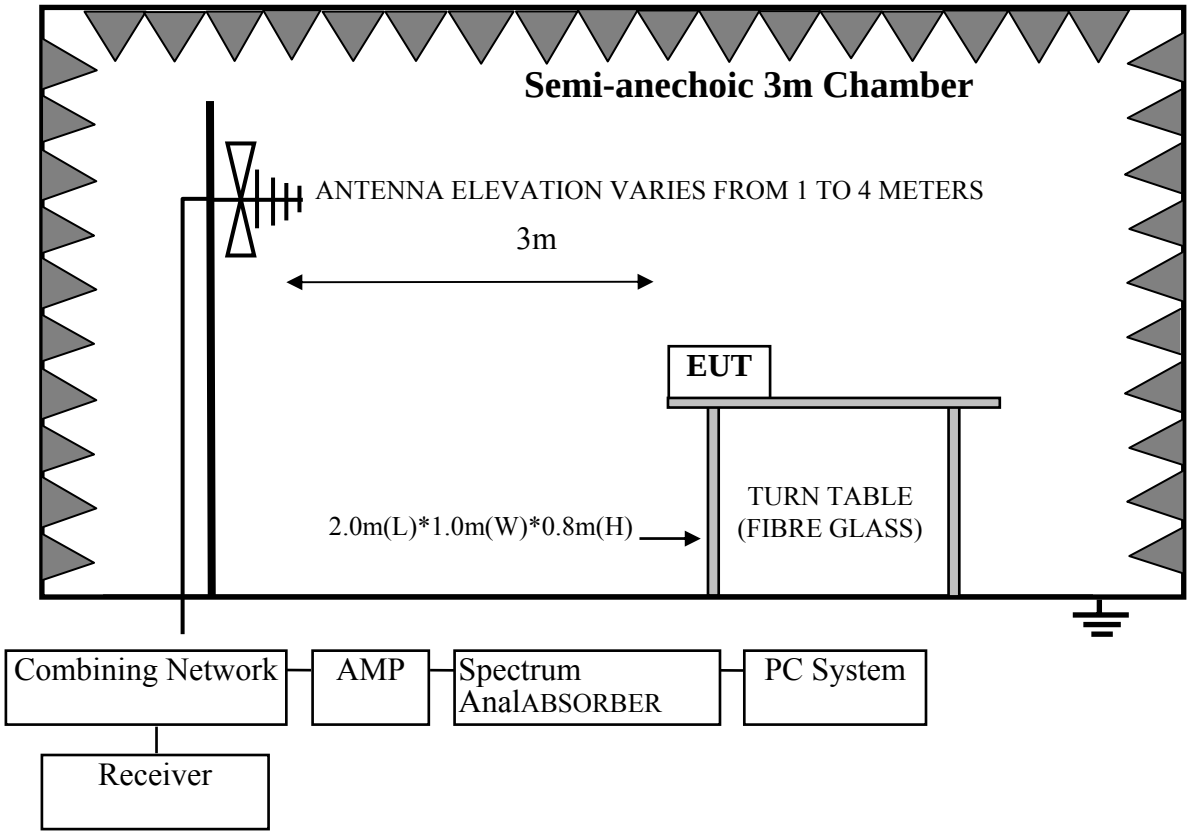
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.23,14	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr.28,15	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr.28,15	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr.28,15	1 Year
5.	Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-493	May.06,15	1 Year
6.	RF Cable	MIYAZAKI	CFD400-NW(3.5M)	No.3	Apr.28,15	1 Year
7.	RF Cable	MIYAZAKI	CFD400-LW(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)

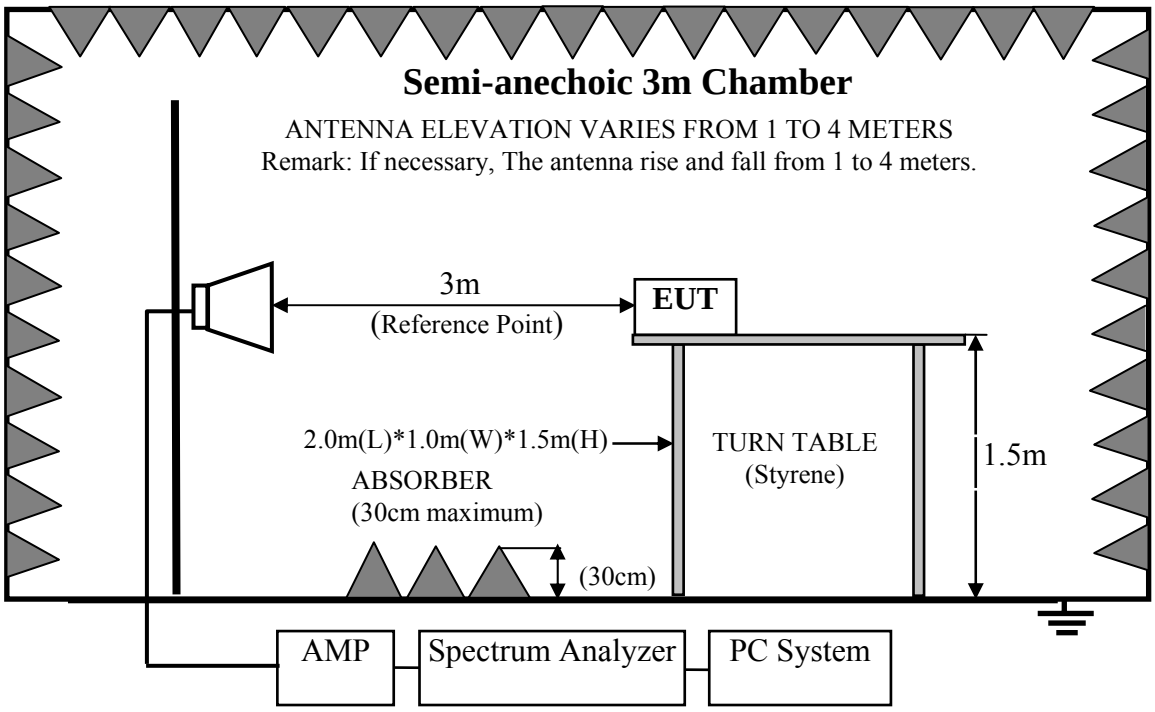
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.02, 14	1 Year
2.	Spectrum Analyzer	Agilent	E4407B	MY41440292	Apr. 28,15	1 Year
3.	Horn Antenna	ETS	3115	9607-4877	Sep.20, 14	1 Year
4.	Amplifier	Agilent	8449B	3008A00863	Apr. 28,15	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr. 28,15	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	Apr. 28,15	1 Year
7.	Horn Antenna	ETS	3116	00060089	Sep.20, 14	1 Year

4.2.Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



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 A8-Ein (ac) Super WiFi Base Station (EUT)

Model Number : WA8011NAC
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 a 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 Horm 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(dBuv/m)-95.2 Get the result of all unwanted emission outside the restricted band is less than the -27dBm/MHz.

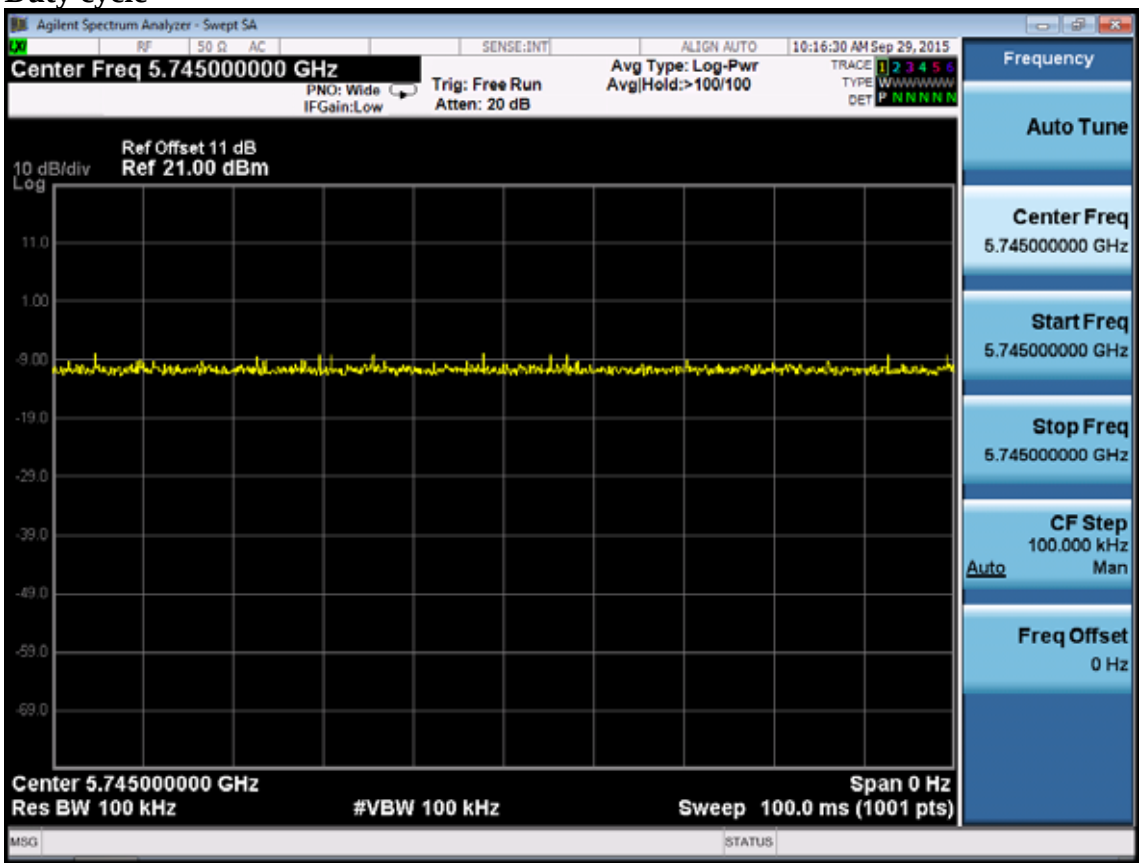
We had checked frequency range that is 30MHz to 10th harmonic (40GHz) and no any emissions were found from 18GHz to 40GHz, so the radiated emission from 18GHz to 40GHz were not record.

4.7.Radiated Emission Test Results

PASS.

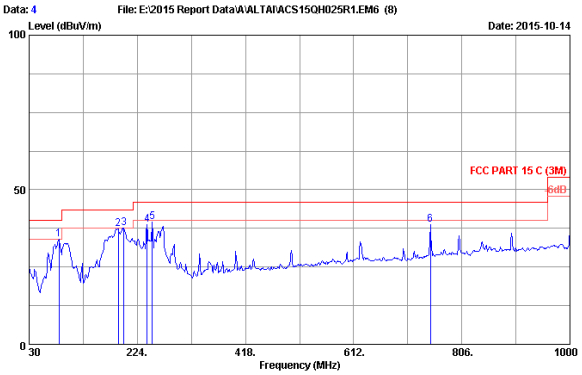
All the emissions from 30MHz to 1 GHz were comply with 15.209 limits.
All other emission comply with 15.407 (b)(1) requirements.

Duty cycle



Note: The Duty Cycle is close to 100%.

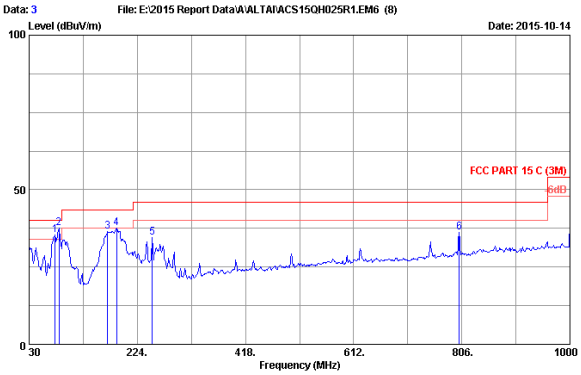
Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 2015 CBL6112D 35375 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : Tx Mode
WA8011NAC

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	83.350	8.30	1.02	24.67	33.99	40.00	6.01	QP
2	190.050	10.10	1.46	25.85	37.41	43.50	6.09	QP
3	199.750	10.59	1.51	25.61	37.71	43.50	5.79	QP
4	241.460	12.67	1.65	24.28	38.60	46.00	7.40	QP
5	251.160	13.32	1.71	24.41	39.44	46.00	6.56	QP
6	749.740	20.60	3.14	14.87	38.61	46.00	7.39	QP

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

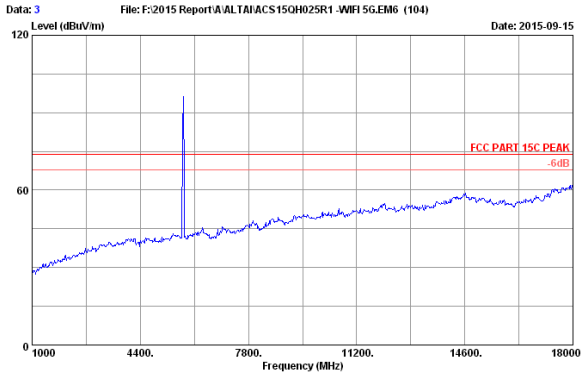


Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2015 CBL6112D 35375 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : Tx Mode
WA8011NAC

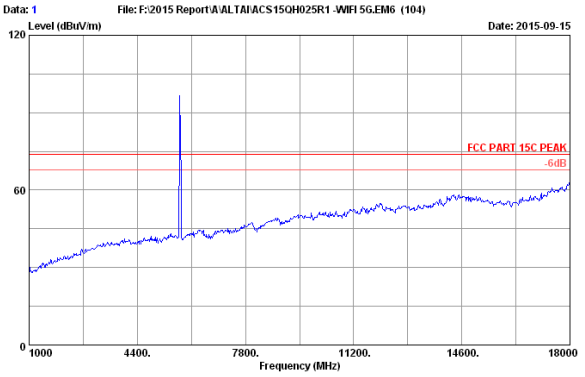
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	76.560	7.46	0.98	27.00	35.44	40.00	4.56	QP
2	83.350	8.30	1.02	28.32	37.64	40.00	2.36	QP
3	170.650	10.27	1.38	24.81	36.46	43.50	7.04	QP
4	187.140	10.10	1.46	26.08	37.64	43.50	5.86	QP
5	251.160	13.32	1.71	19.51	34.54	46.00	11.46	QP
6	801.150	21.09	3.26	11.81	36.16	46.00	9.84	QP

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

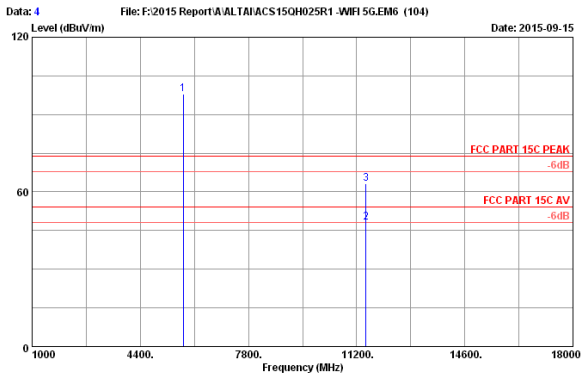
Frequency: 1GHz~18GHz



Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC



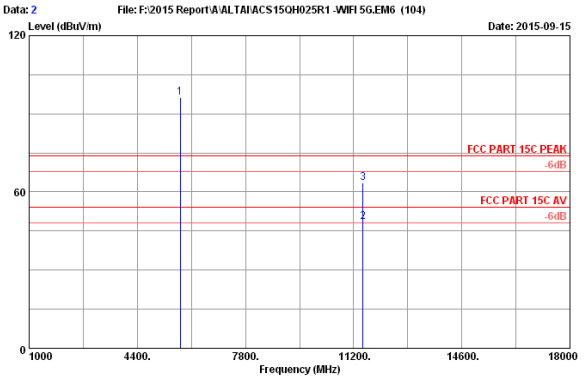
Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC



Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC

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	34.40	9.90	35.11	88.65	97.84	74.00	-23.84	Peak
2	11490.000	38.99	14.54	35.33	30.09	48.29	54.00	5.71	Average
3	11490.000	38.99	14.54	35.33	44.83	63.03	74.00	10.97	Peak

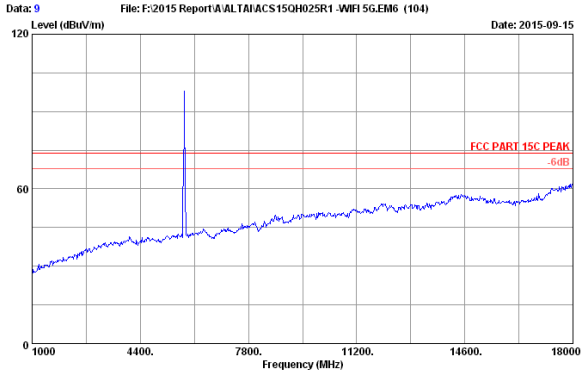
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



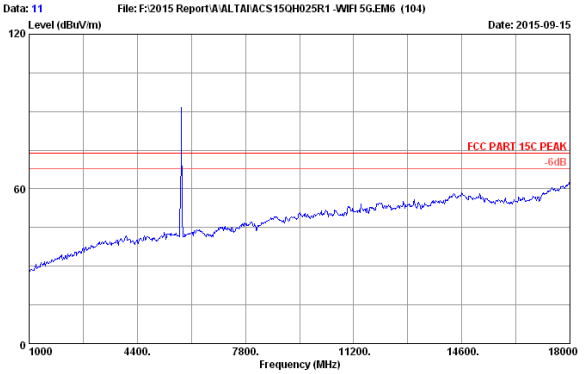
Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC

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	34.40	9.90	35.11	86.97	96.16	74.00	-22.16	Peak
2	11490.000	38.99	14.54	35.33	30.13	48.33	54.00	5.67	Average
3	11490.000	38.99	14.54	35.33	45.37	63.57	74.00	10.43	Peak

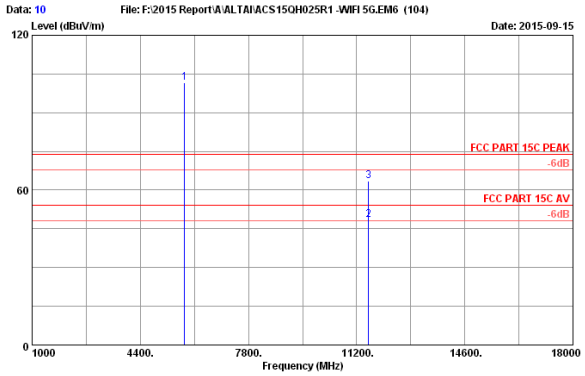
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
WA8011NAC



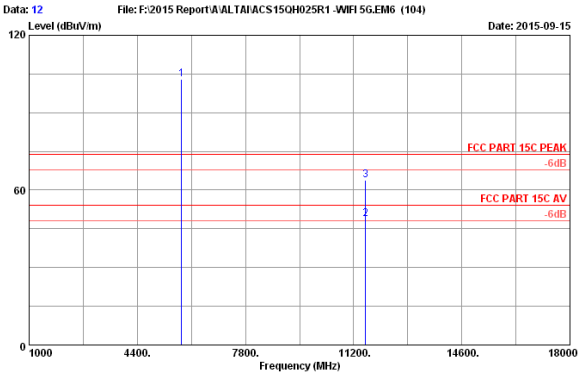
Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
WA8011NAC



Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
WA8011NAC

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	5785.000	34.42	9.91	35.10	92.50	101.73	74.00	-27.73	Peak
2	11570.000	39.03	14.60	35.31	30.21	48.53	54.00	5.47	Average
3	11570.000	39.03	14.60	35.31	45.23	63.55	74.00	10.45	Peak

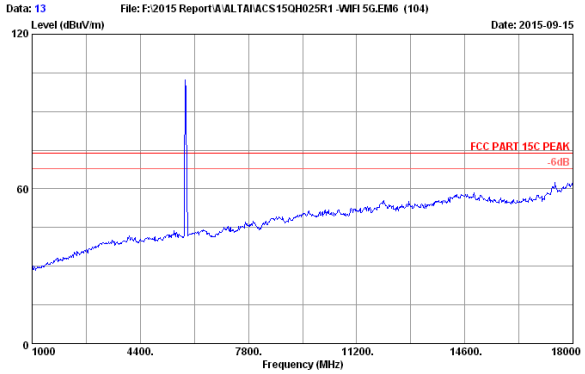
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



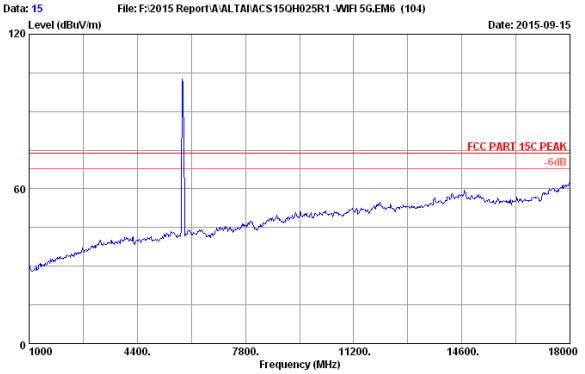
Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
WA8011NAC

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	5785.000	34.42	9.91	35.10	93.66	102.89	74.00	-28.89	Peak
2	11570.000	39.03	14.60	35.31	30.42	48.74	54.00	5.26	Average
3	11570.000	39.03	14.60	35.31	45.69	64.01	74.00	9.99	Peak

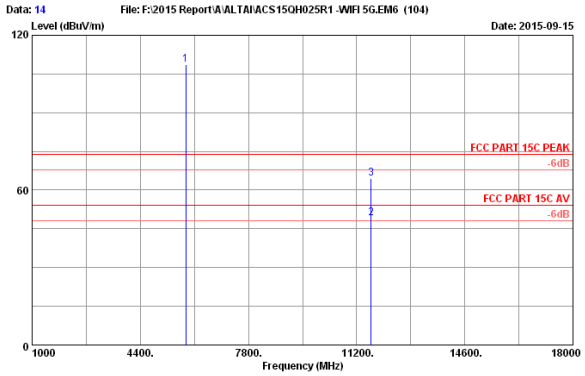
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC



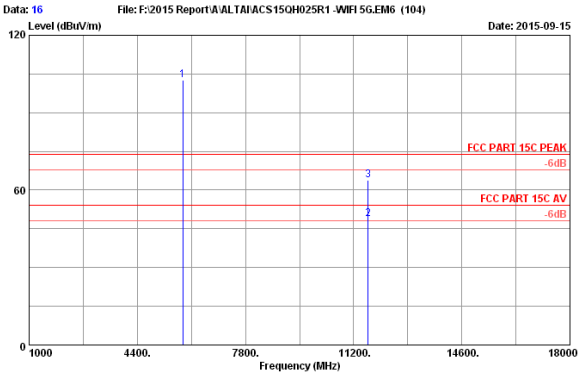
Site no. : 3m Chamber Data no. : 15
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC



Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC

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	34.43	9.93	35.08	99.28	108.56	74.00	-34.56	Peak
2	11650.000	39.06	14.66	35.29	30.82	49.25	54.00	4.75	Average
3	11650.000	39.06	14.66	35.29	45.96	64.39	74.00	9.61	Peak

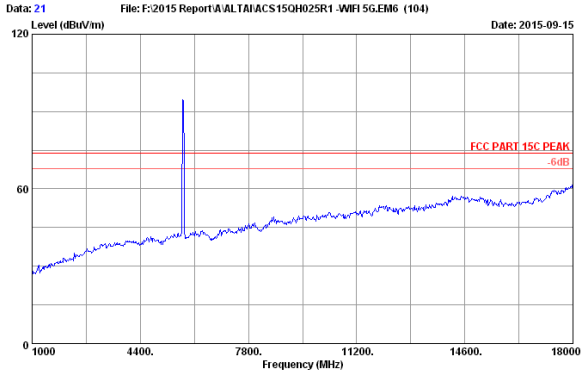
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



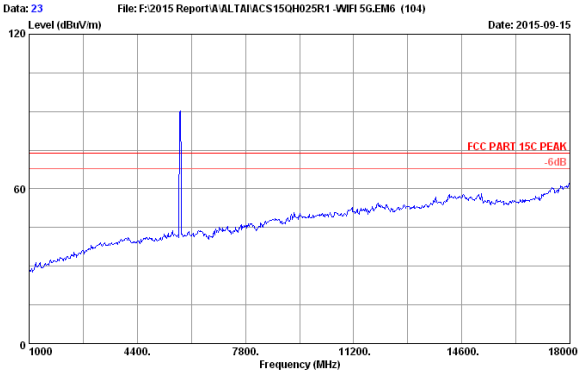
Site no. : 3m Chamber Data no. : 16
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC

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	34.43	9.93	35.08	93.45	102.73	74.00	-28.73	Peak
2	11650.000	39.06	14.66	35.29	30.41	48.84	54.00	5.16	Average
3	11650.000	39.06	14.66	35.29	45.27	63.70	74.00	10.30	Peak

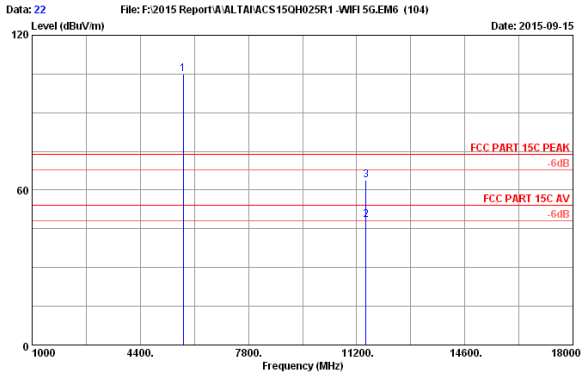
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC



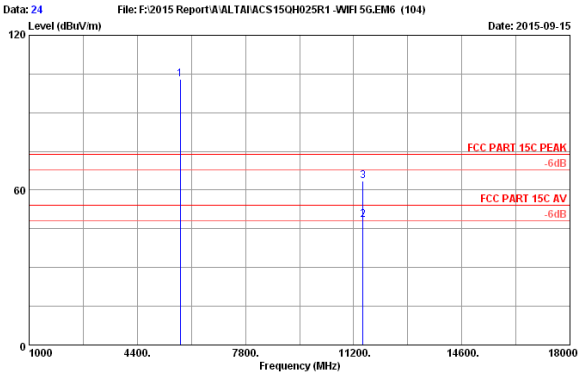
Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC



Site no. : 3m Chamber Data no. : 22
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC

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	34.40	9.90	35.11	95.85	105.04	74.00	-31.04	Peak
2	11490.000	38.99	14.54	35.33	30.29	48.49	54.00	5.51	Average
3	11490.000	38.99	14.54	35.33	45.64	63.84	74.00	10.16	Peak

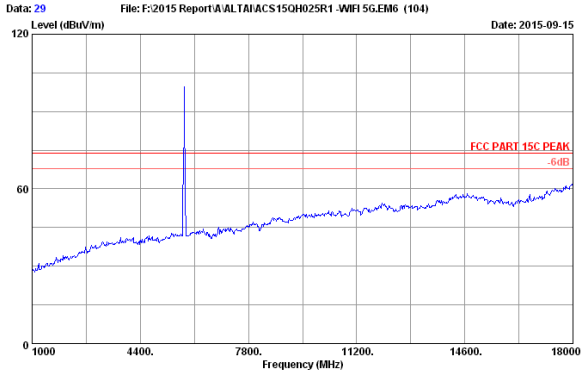
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



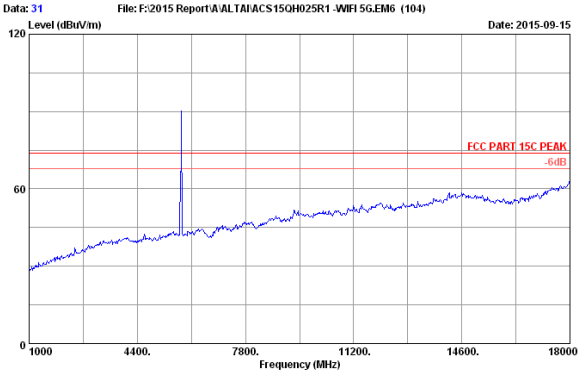
Site no. : 3m Chamber Data no. : 24
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC

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	34.40	9.90	35.11	93.67	102.86	74.00	-28.86	Peak
2	11490.000	38.99	14.54	35.33	30.20	48.40	54.00	5.60	Average
3	11490.000	38.99	14.54	35.33	45.38	63.58	74.00	10.42	Peak

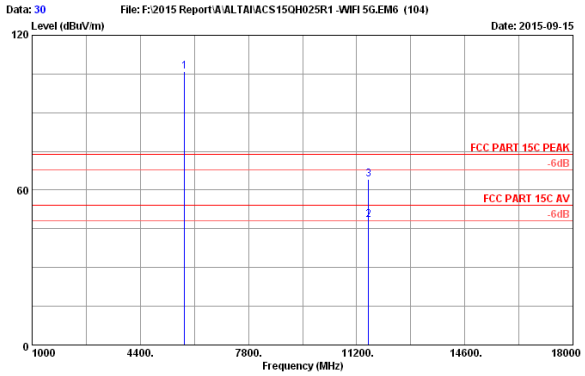
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
WA8011NAC



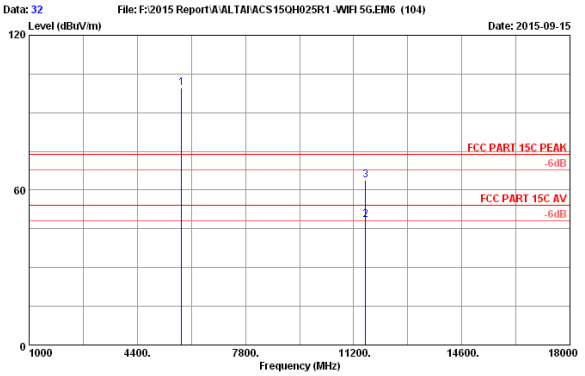
Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
WA8011NAC



Site no. : 3m Chamber Data no. : 30
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
WA8011NAC

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	5785.000	34.42	9.91	35.10	96.87	106.10	74.00	-32.10	Peak
2	11570.000	39.03	14.60	35.31	30.26	48.58	54.00	5.42	Average
3	11570.000	39.03	14.60	35.31	45.82	64.14	74.00	9.86	Peak

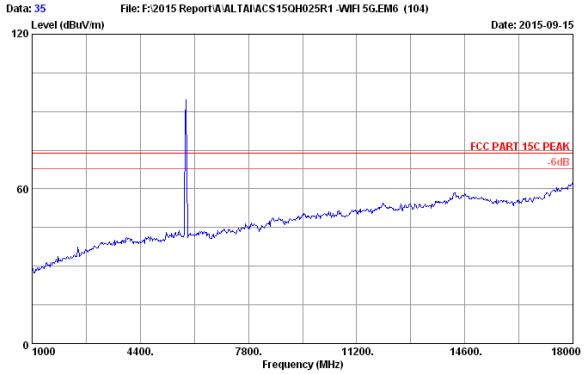
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



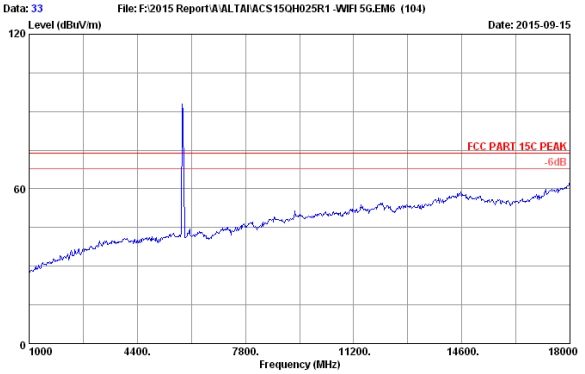
Site no. : 3m Chamber Data no. : 32
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
WA8011NAC

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	5785.000	34.42	9.91	35.10	90.43	99.66	74.00	-25.66	Peak
2	11570.000	39.03	14.60	35.31	30.29	48.61	54.00	5.39	Average
3	11570.000	39.03	14.60	35.31	45.36	63.68	74.00	10.32	Peak

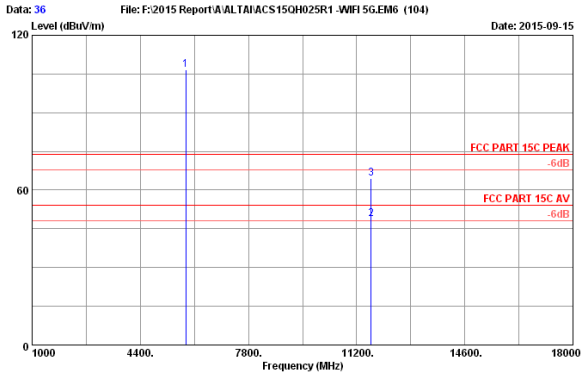
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 35
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC



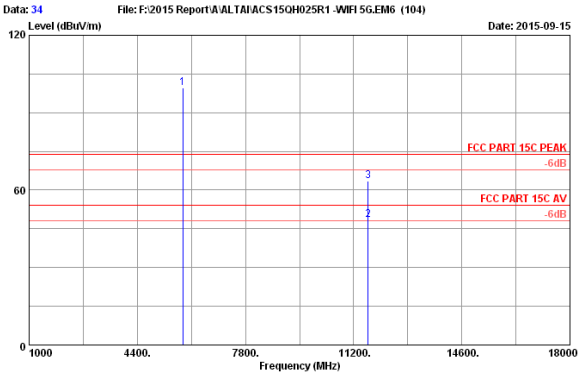
Site no. : 3m Chamber Data no. : 33
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC



Site no. : 3m Chamber Data no. : 36
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC

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	34.43	9.93	35.08	97.26	106.54	74.00	-32.54	Peak
2	11650.000	39.06	14.66	35.29	30.41	48.84	54.00	5.16	Average
3	11650.000	39.06	14.66	35.29	45.98	64.41	74.00	9.59	Peak

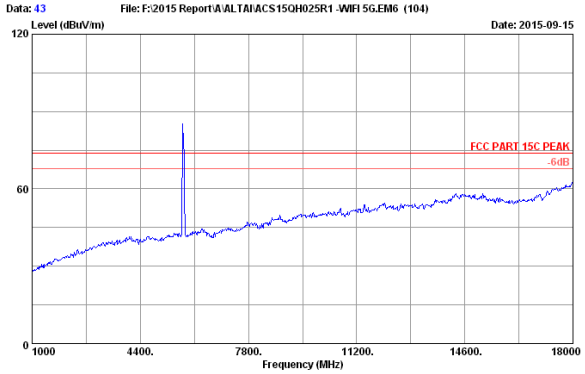
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



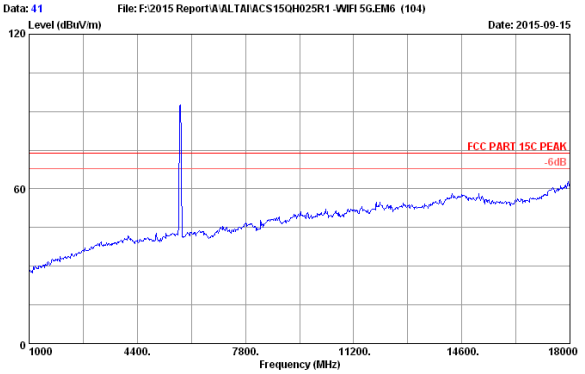
Site no. : 3m Chamber Data no. : 34
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC

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	34.43	9.93	35.08	90.36	99.64	74.00	-25.64	Peak
2	11650.000	39.06	14.66	35.29	30.08	48.51	54.00	5.49	Average
3	11650.000	39.06	14.66	35.29	45.11	63.54	74.00	10.46	Peak

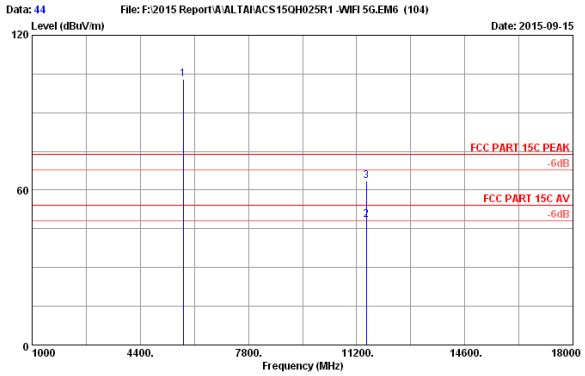
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 43
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC



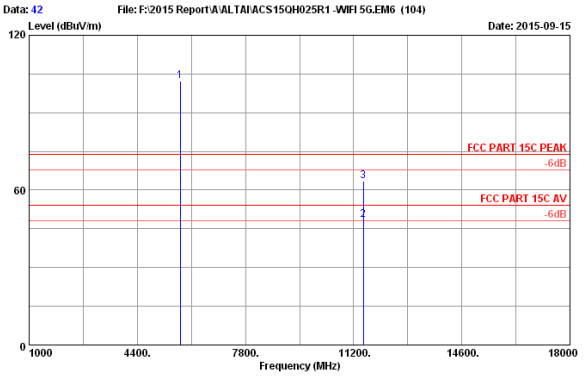
Site no. : 3m Chamber Data no. : 41
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC



Site no. : 3m Chamber Data no. : 44
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC

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	5755.000	34.40	9.91	35.11	93.87	103.07	74.00	-29.07	Peak
2	11510.000	39.00	14.56	35.33	30.19	48.42	54.00	5.58	Average
3	11510.000	39.00	14.56	35.33	45.26	63.49	74.00	10.51	Peak

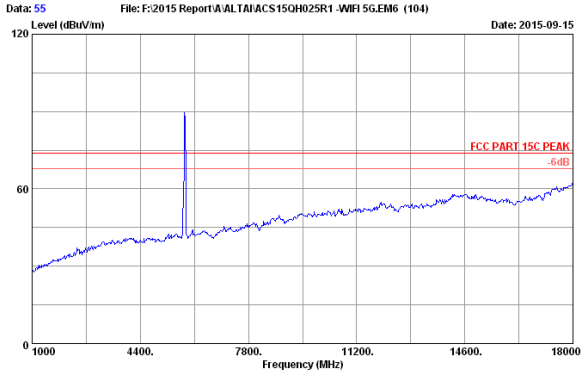
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



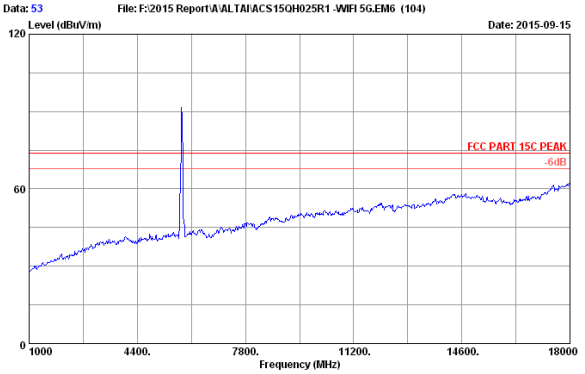
Site no. : 3m Chamber Data no. : 42
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC

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	5755.000	34.40	9.91	35.11	93.12	102.32	74.00	-28.32	Peak
2	11510.000	39.00	14.56	35.33	30.23	48.46	54.00	5.54	Average
3	11510.000	39.00	14.56	35.33	45.37	63.60	74.00	10.40	Peak

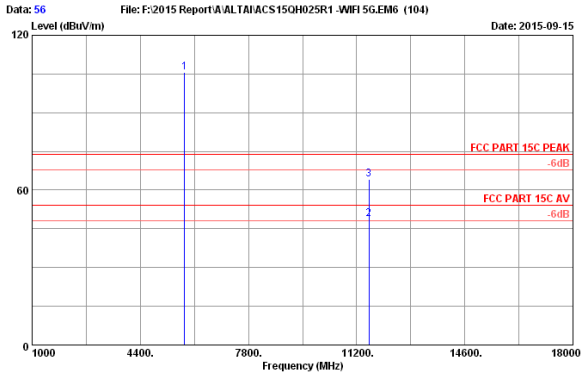
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 55
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC



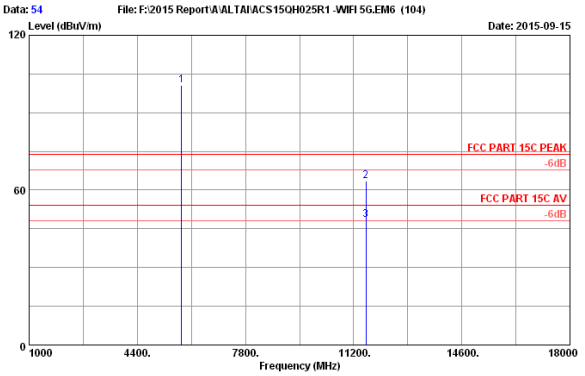
Site no. : 3m Chamber Data no. : 53
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC



Site no. : 3m Chamber Data no. : 56
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC

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	5795.000	34.42	9.92	35.09	96.48	105.73	74.00	-31.73	Peak
2	11590.000	39.04	14.61	35.30	30.52	48.87	54.00	5.13	Average
3	11590.000	39.04	14.61	35.30	45.67	64.02	74.00	9.98	Peak

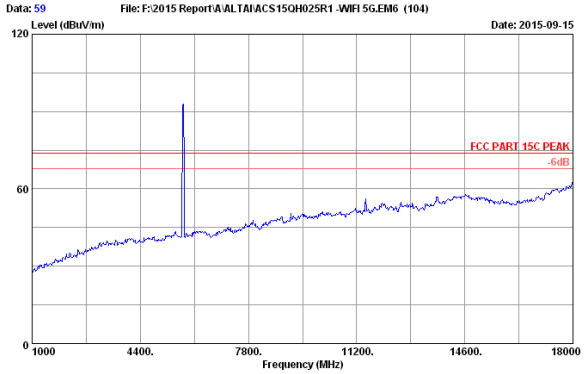
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



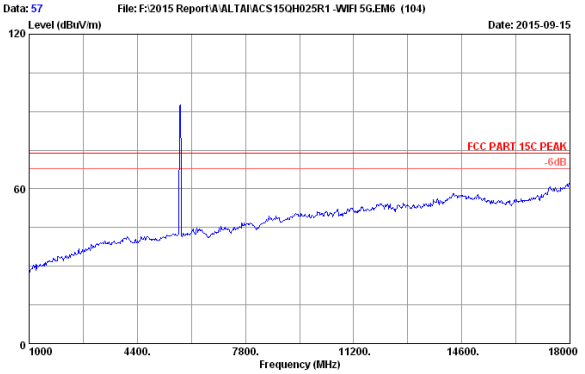
Site no. : 3m Chamber Data no. : 54
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC

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	5795.000	34.42	9.92	35.09	91.48	100.73	74.00	-26.73	Peak
2	11590.000	39.04	14.61	35.30	45.33	63.68	74.00	10.32	Peak
3	11590.000	39.04	14.61	35.30	30.16	48.51	74.00	25.49	QP

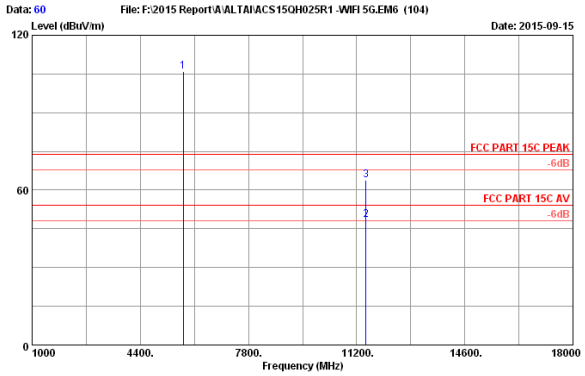
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 59
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC



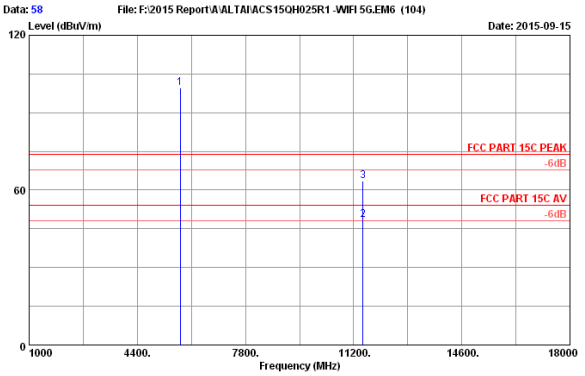
Site no. : 3m Chamber Data no. : 57
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC



Site no. : 3m Chamber Data no. : 60
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC

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	34.40	9.90	35.11	96.77	105.96	74.00	-31.96	Peak
2	11490.000	38.99	14.54	35.33	30.25	48.45	54.00	5.55	Average
3	11490.000	38.99	14.54	35.33	45.64	63.84	74.00	10.16	Peak

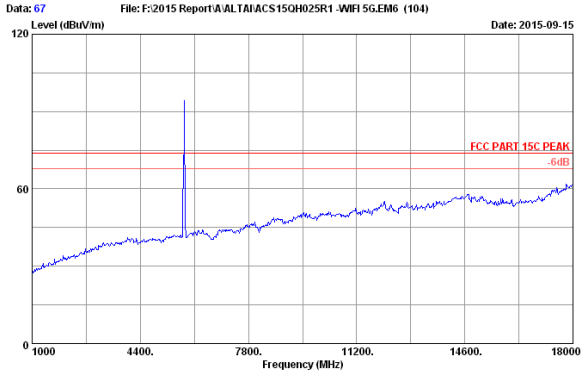
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



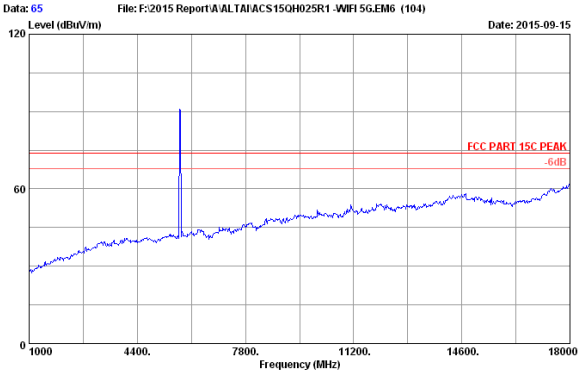
Site no. : 3m Chamber Data no. : 58
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC

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	34.40	9.90	35.11	90.32	99.51	74.00	-25.51	Peak
2	11490.000	38.99	14.54	35.33	30.28	48.48	54.00	5.52	Average
3	11490.000	38.99	14.54	35.33	45.40	63.60	74.00	10.40	Peak

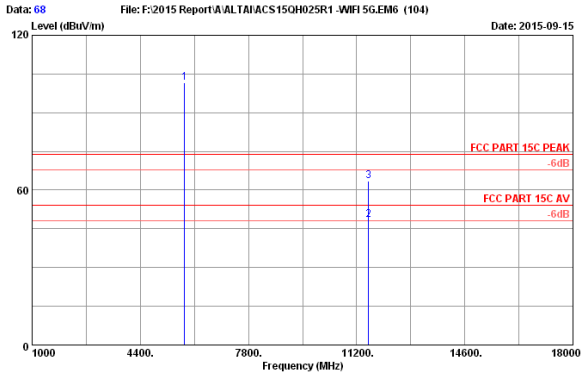
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 67
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5785MHz Tx
WA8011NAC



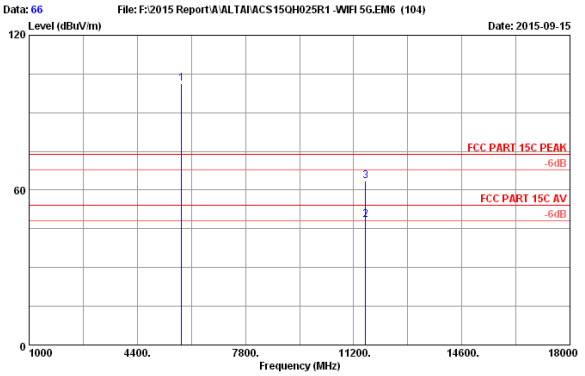
Site no. : 3m Chamber Data no. : 65
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5785MHz Tx
WA8011NAC



Site no. : 3m Chamber Data no. : 68
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5785MHz Tx
WA8011NAC

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	34.42	9.91	35.10	92.43	101.66	74.00	-27.66	Peak
2	11570.000	39.03	14.60	35.31	30.28	48.60	54.00	5.40	Average
3	11570.000	39.03	14.60	35.31	45.26	63.58	74.00	10.42	Peak

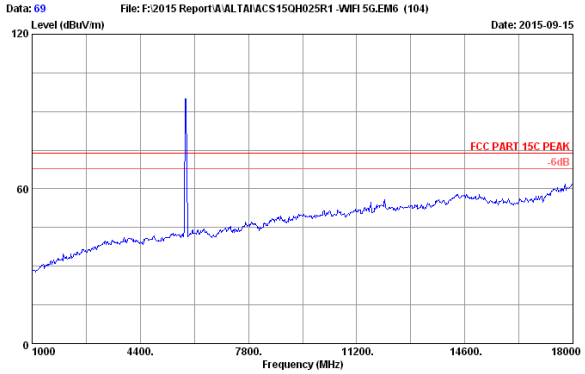
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



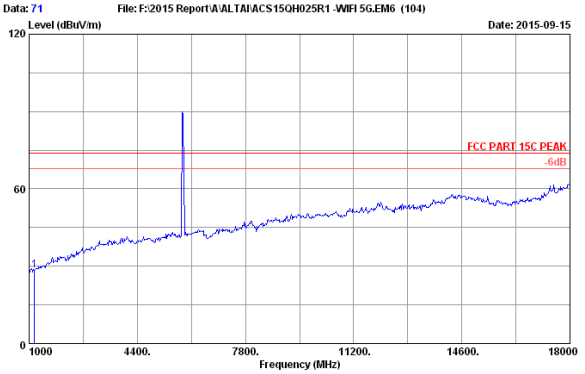
Site no. : 3m Chamber Data no. : 66
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5785MHz Tx
WA8011NAC

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	34.42	9.91	35.10	92.08	101.31	74.00	-27.31	Peak
2	11570.000	39.03	14.60	35.31	30.19	48.51	54.00	5.49	Average
3	11570.000	39.03	14.60	35.31	45.32	63.64	74.00	10.36	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.



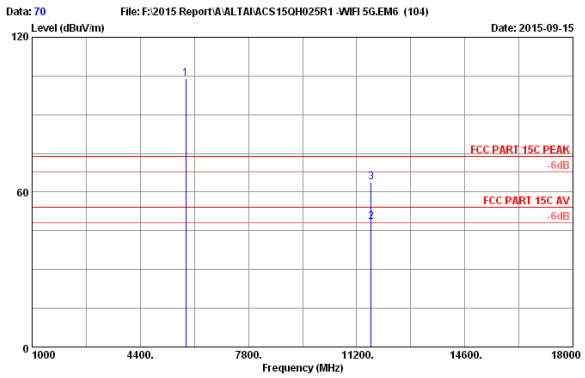
Site no. : 3m Chamber Data no. : 69
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC



Site no. : 3m Chamber Data no. : 71
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC

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	1170.000	24.47	4.63	37.38	36.53	28.25	74.00	45.75	Peak

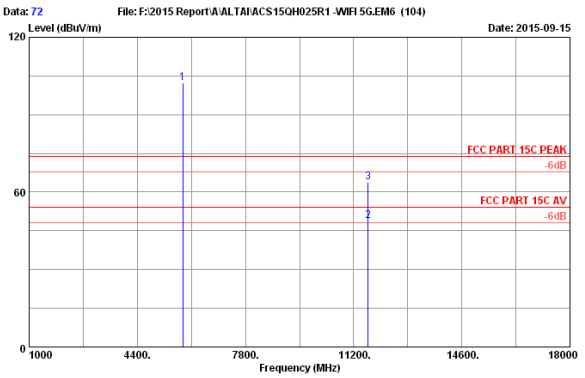
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 70
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC

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	34.43	9.93	35.08	94.57	103.85	74.00	-29.85	Peak
2	11650.000	39.06	14.66	35.29	30.07	48.50	54.00	5.50	Average
3	11650.000	39.06	14.66	35.29	45.33	63.76	74.00	10.24	Peak

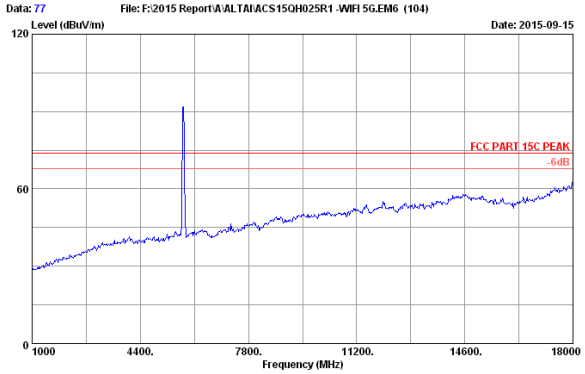
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



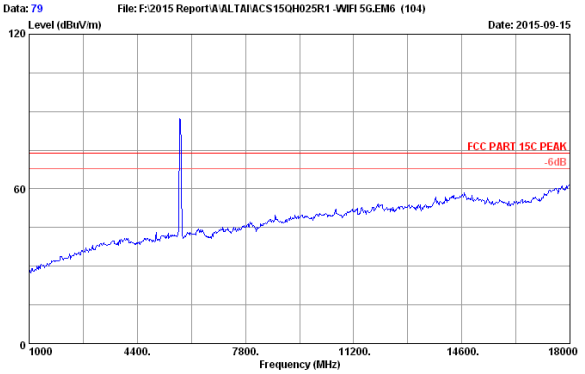
Site no. : 3m Chamber Data no. : 72
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC

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	34.43	9.93	35.08	92.85	102.13	74.00	-28.13	Peak
2	11650.000	39.06	14.66	35.29	30.47	48.90	54.00	5.10	Average
3	11650.000	39.06	14.66	35.29	45.38	63.81	74.00	10.19	Peak

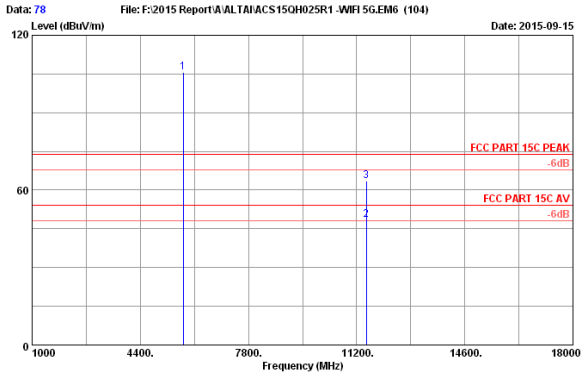
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 77
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC



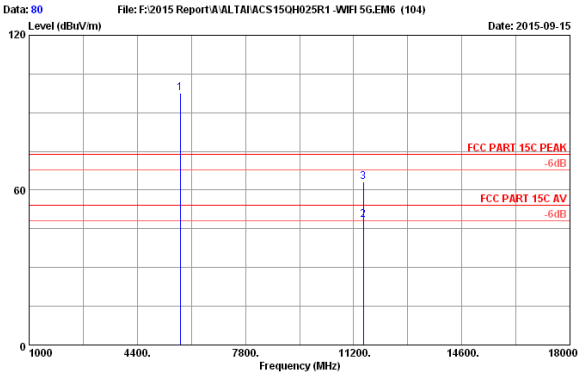
Site no. : 3m Chamber Data no. : 79
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC



Site no. : 3m Chamber Data no. : 78
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC

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	5755.000	34.40	9.91	35.11	96.48	105.68	74.00	-31.68	Peak
2	11510.000	39.00	14.56	35.33	30.13	48.36	54.00	5.64	Average
3	11510.000	39.00	14.56	35.33	45.36	63.59	74.00	10.41	Peak

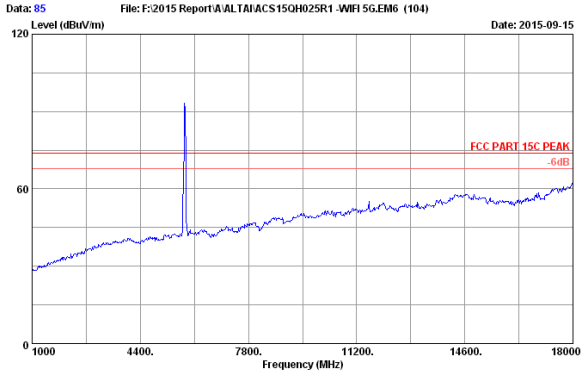
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



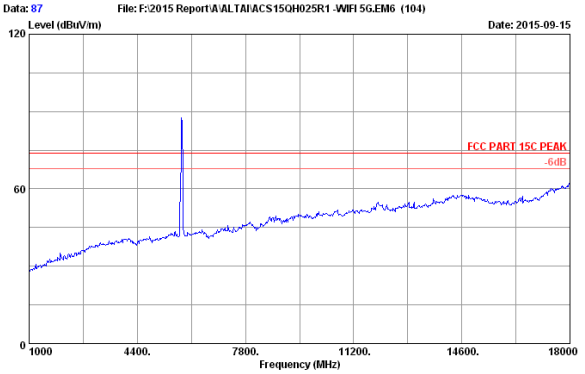
Site no. : 3m Chamber Data no. : 80
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC

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	5755.000	34.40	9.91	35.11	88.26	97.46	74.00	-23.46	Peak
2	11510.000	39.00	14.56	35.33	30.25	48.48	54.00	5.52	Average
3	11510.000	39.00	14.56	35.33	45.03	63.26	74.00	10.74	Peak

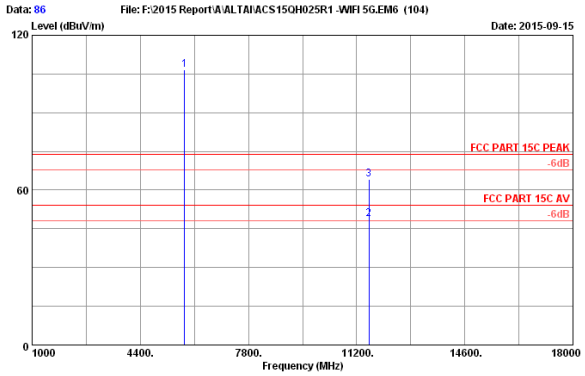
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 85
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC



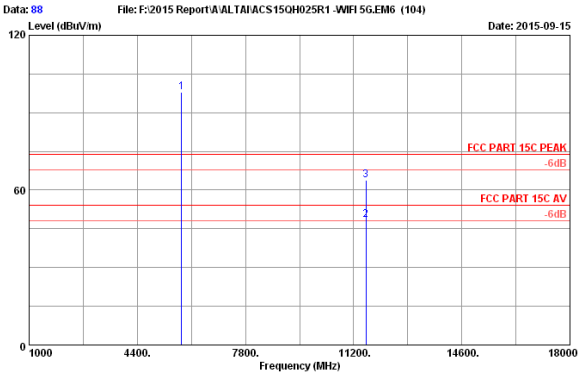
Site no. : 3m Chamber Data no. : 87
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC



Site no. : 3m Chamber Data no. : 86
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC

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	34.42	9.92	35.09	97.26	106.51	74.00	-32.51	Peak
2	11590.000	39.04	14.61	35.30	30.42	48.77	54.00	5.23	Average
3	11590.000	39.04	14.61	35.30	45.78	64.13	74.00	9.87	Peak

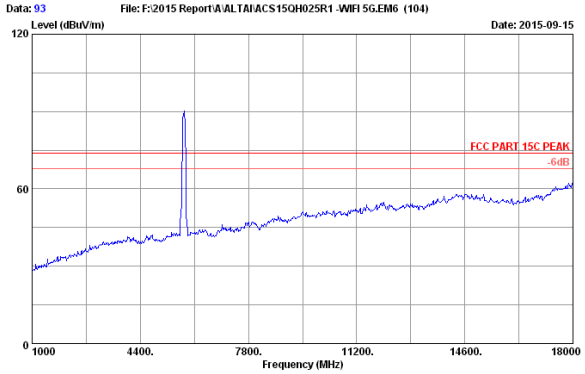
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



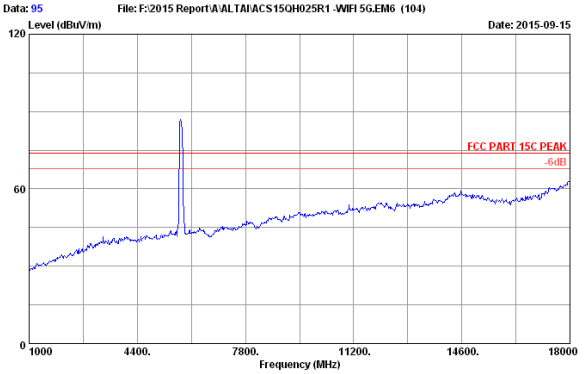
Site no. : 3m Chamber Data no. : 88
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC

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	34.42	9.92	35.09	88.62	97.87	74.00	-23.87	Peak
2	11590.000	39.04	14.61	35.30	30.23	48.58	54.00	5.42	Average
3	11590.000	39.04	14.61	35.30	45.61	63.96	74.00	10.04	Peak

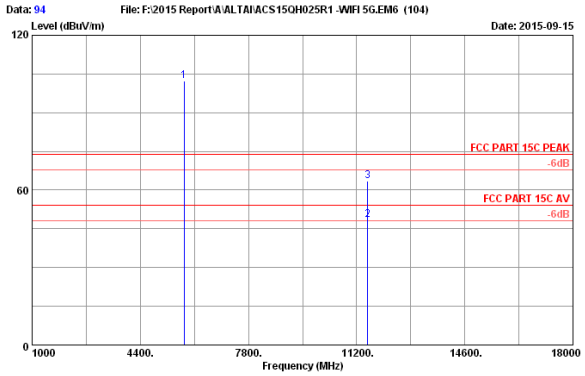
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 93
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC



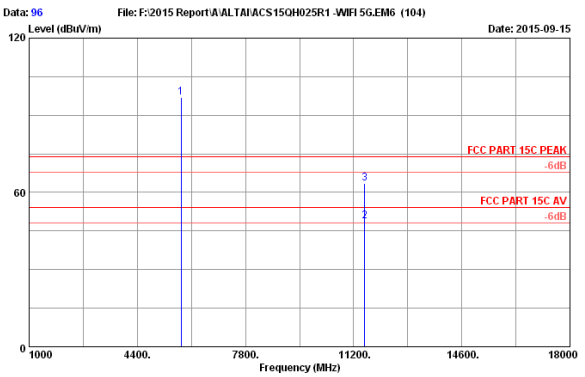
Site no. : 3m Chamber Data no. : 95
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC



Site no. : 3m Chamber Data no. : 94
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC

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	34.41	9.91	35.10	93.15	102.37	74.00	-28.37	Peak
2	11550.000	39.02	14.58	35.31	30.33	48.62	54.00	5.38	Average
3	11550.000	39.02	14.58	35.31	45.16	63.45	74.00	10.55	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 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC

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	34.41	9.91	35.10	87.65	96.87	74.00	-22.87	Peak
2	11550.000	39.02	14.58	35.31	30.42	48.71	54.00	5.29	Average
3	11550.000	39.02	14.58	35.31	45.26	63.55	74.00	10.45	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.	Amp	HP	8449B	3008A02495	Apr. 28,15	1 Year
2.	Horn Antenna	ETS	3115	9510-4877	Sep.20,14	1 Year
3.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr. 28,15	1 Year
4.	RF Cable	Hubersuhner	Sucoflex102	28610/2	Apr. 28,15	1 Year

5.2.Limit

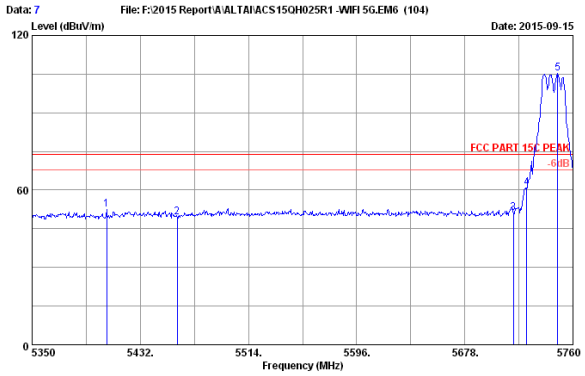
For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.
For devices with both operating frequencies and channel bandwidths contained within the band 5250-5350 MHz,
All emissions outside the band 5250-5350 MHz shall not exceed -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

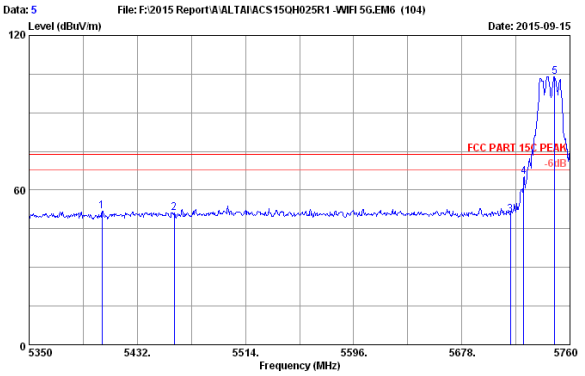
Pass (The testing data was attached in the next pages.)



Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC

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	5406.580	34.14	9.74	35.27	43.75	52.36	74.00	21.64	Peak
2	5460.000	34.23	9.76	35.25	40.88	49.62	74.00	24.38	Peak
3	5715.000	34.39	9.88	35.12	42.01	51.16	74.00	22.84	Peak
4	5725.000	34.39	9.89	35.12	51.83	60.99	74.00	13.01	Peak
5	5748.520	34.40	9.90	35.11	96.02	105.21	74.00	-31.21	Peak

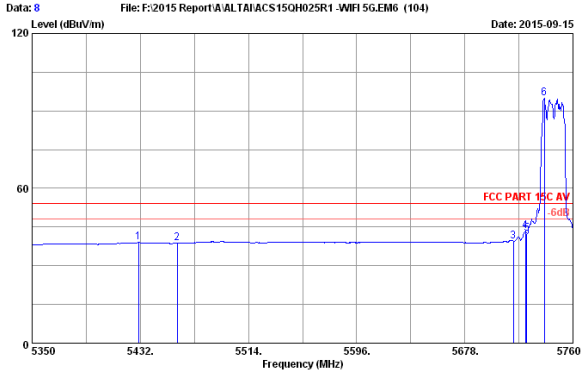
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC

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	5405.350	34.14	9.74	35.27	43.20	51.81	74.00	22.19	Peak
2	5459.880	34.23	9.76	35.25	42.25	50.99	74.00	23.01	Peak
3	5715.000	34.39	9.88	35.12	41.20	50.35	74.00	23.65	Peak
4	5725.000	34.39	9.89	35.12	55.94	65.10	74.00	8.90	Peak
5	5748.520	34.40	9.90	35.11	94.93	104.12	74.00	-30.12	Peak

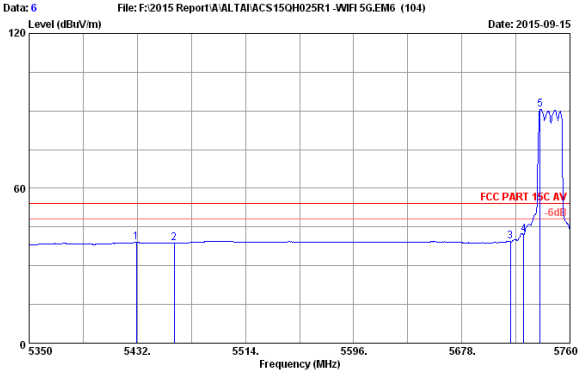
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC

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	34.18	9.75	35.26	30.31	38.98	54.00	15.02	Average
2	5460.000	34.23	9.76	35.25	29.92	38.66	54.00	15.34	Average
3	5715.000	34.39	9.88	35.12	30.43	39.58	54.00	14.42	Average
4	5723.920	34.39	9.89	35.12	34.28	43.44	54.00	10.56	Average
5	5725.000	34.39	9.89	35.12	33.25	42.41	54.00	11.59	Average
6	5738.270	34.40	9.90	35.11	85.59	94.78	54.00	-40.78	Average

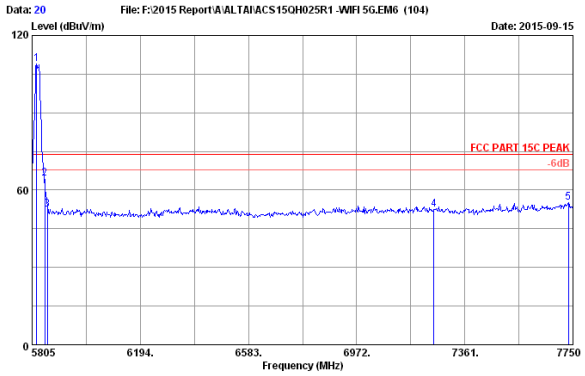
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC

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	5431.180	34.18	9.75	35.26	30.34	39.01	54.00	14.99	Average
2	5460.000	34.23	9.76	35.25	30.00	38.74	54.00	15.26	Average
3	5715.000	34.39	9.88	35.12	30.13	39.28	54.00	14.72	Average
4	5725.000	34.39	9.89	35.12	32.99	42.15	54.00	11.85	Average
5	5737.450	34.40	9.90	35.12	81.44	90.62	54.00	-36.62	Average

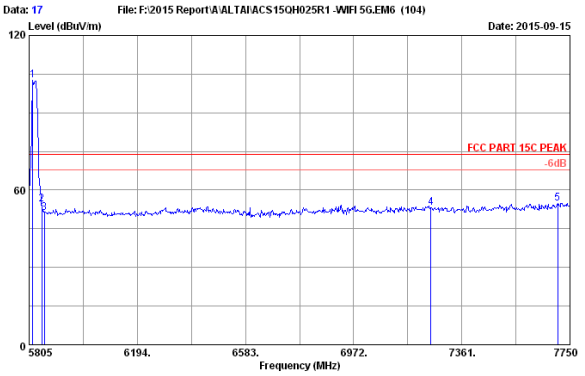
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 20
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC

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	5820.560	34.43	9.93	35.08	99.81	109.09	74.00	-35.09	Peak
2	5850.000	34.44	9.95	35.07	55.21	64.53	74.00	9.47	Peak
3	5860.000	34.45	9.95	35.07	43.12	52.45	74.00	21.55	Peak
4	7250.000	35.91	10.74	35.50	41.29	52.44	74.00	21.56	Peak
5	7734.440	36.64	11.22	35.69	42.84	55.01	74.00	18.99	Peak

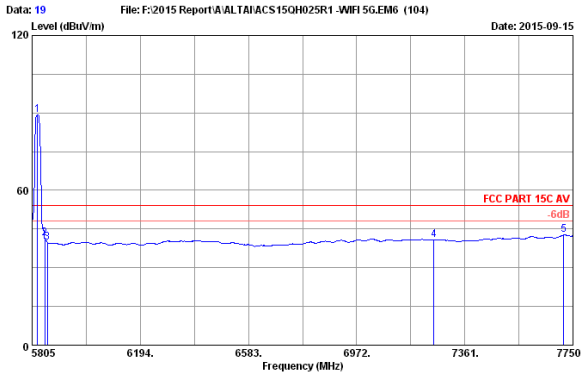
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 17
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC

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	5818.615	34.43	9.93	35.08	93.23	102.51	74.00	-28.51	Peak
2	5850.000	34.44	9.95	35.07	45.20	54.52	74.00	19.48	Peak
3	5860.000	34.45	9.95	35.07	41.81	51.14	74.00	22.86	Peak
4	7250.000	35.91	10.74	35.50	41.99	53.14	74.00	20.86	Peak
5	7705.265	36.63	11.18	35.68	42.62	54.75	74.00	19.25	Peak

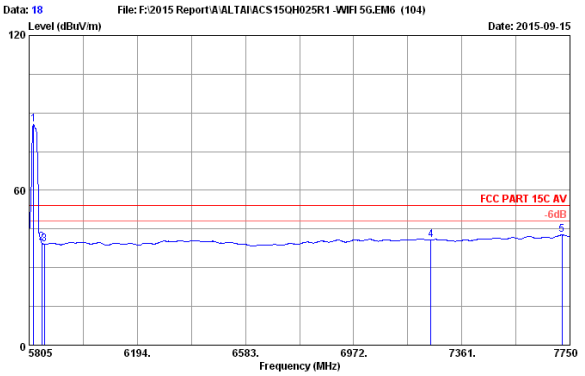
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 19
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC

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	5824.450	34.43	9.93	35.08	80.11	89.39	54.00	-35.39	Average
2	5850.000	34.44	9.95	35.07	32.16	41.48	54.00	12.52	Average
3	5860.000	34.45	9.95	35.07	30.31	39.64	54.00	14.36	Average
4	7250.000	35.91	10.74	35.50	29.71	40.86	54.00	13.14	Average
5	7716.935	36.63	11.20	35.69	30.54	42.68	54.00	11.32	Average

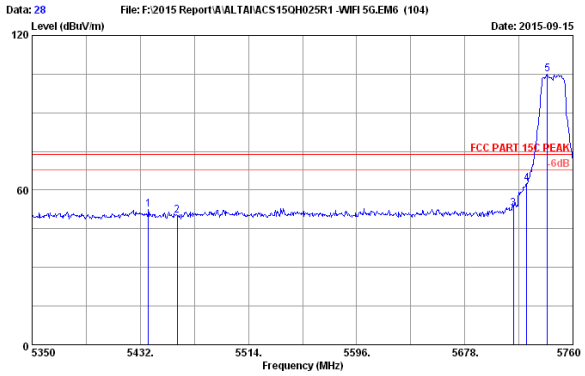
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 18
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC

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	5820.560	34.43	9.93	35.08	76.36	85.64	54.00	-31.64	Average
2	5850.000	34.44	9.95	35.07	30.34	39.66	54.00	14.34	Average
3	5860.000	34.45	9.95	35.07	29.72	39.05	54.00	14.95	Average
4	7250.000	35.91	10.74	35.50	29.71	40.86	54.00	13.14	Average
5	7720.825	36.63	11.20	35.69	30.59	42.73	54.00	11.27	Average

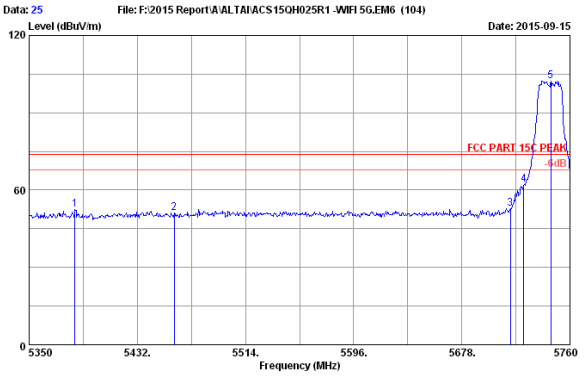
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 28
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC

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	5438.150	34.19	9.75	35.25	43.86	52.55	74.00	21.45	Peak
2	5460.000	34.23	9.76	35.25	41.47	50.21	74.00	23.79	Peak
3	5715.000	34.39	9.88	35.12	43.68	52.83	74.00	21.17	Peak
4	5725.000	34.39	9.89	35.12	53.41	62.57	74.00	11.43	Peak
5	5740.730	34.40	9.90	35.11	95.61	104.80	74.00	-30.80	Peak

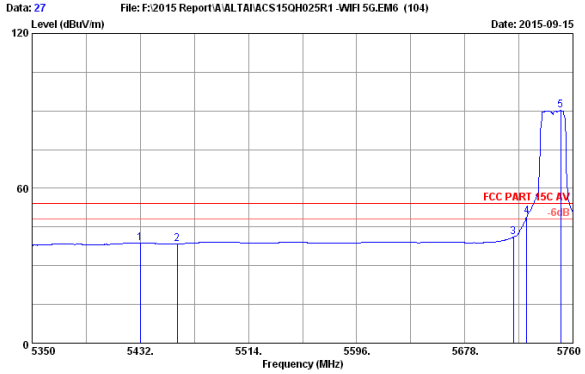
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 25
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC

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	5384.850	34.10	9.73	35.28	43.84	52.39	74.00	21.61	Peak
2	5460.000	34.23	9.76	35.25	42.35	51.09	74.00	22.91	Peak
3	5715.000	34.39	9.88	35.12	43.76	52.91	74.00	21.09	Peak
4	5725.000	34.39	9.89	35.12	53.16	62.32	74.00	11.68	Peak
5	5745.650	34.40	9.90	35.11	93.25	102.44	74.00	-28.44	Peak

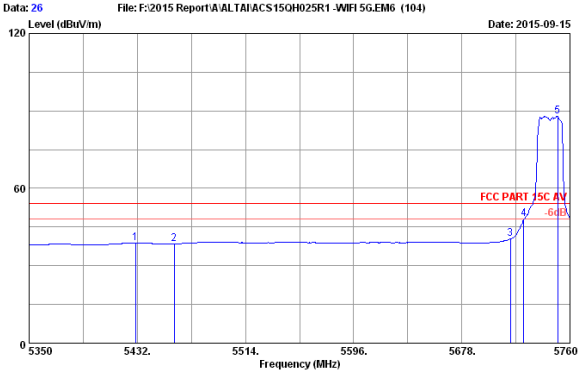
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC

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	5432.000	34.18	9.75	35.26	30.20	38.87	54.00	15.13	Average
2	5460.000	34.23	9.76	35.25	29.75	38.49	54.00	15.51	Average
3	5715.000	34.39	9.88	35.12	31.90	41.05	54.00	12.95	Average
4	5725.000	34.39	9.89	35.12	40.02	49.18	54.00	4.82	Average
5	5750.570	34.40	9.90	35.11	81.03	90.22	54.00	-36.22	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.

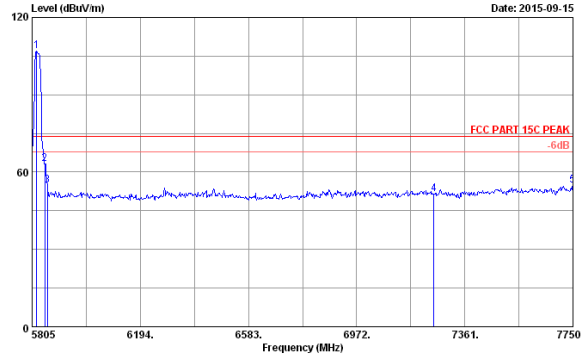


Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC

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	34.18	9.75	35.26	30.16	38.83	54.00	15.17	Average
2	5460.000	34.23	9.76	35.25	29.78	38.52	54.00	15.48	Average
3	5715.000	34.39	9.88	35.12	31.27	40.42	54.00	13.58	Average
4	5725.000	34.39	9.89	35.12	38.81	47.97	54.00	6.03	Average
5	5750.570	34.40	9.90	35.11	78.77	87.96	54.00	-33.96	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.

Data: 37 File: F:\2015 Report\A\ALTAI\ACS15QH025R1 -WIFI 5G.EM6 (104)

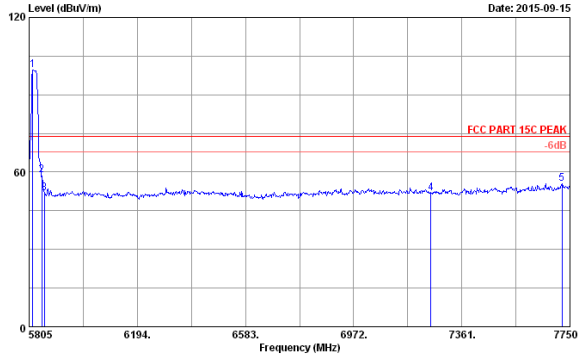


Site no. : 3m Chamber Data no. : 37
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC

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	5820.560	34.43	9.93	35.08	97.62	106.90	74.00	-32.90	Peak
2	5850.000	34.44	9.95	35.07	53.92	63.24	74.00	10.76	Peak
3	5860.000	34.45	9.95	35.07	45.34	54.67	74.00	19.33	Peak
4	7250.000	35.91	10.74	35.50	40.27	51.42	74.00	22.58	Peak
5	7750.000	36.65	11.23	35.70	42.57	54.75	74.00	19.25	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.

Data: 40 File: F:\2015 Report\A\ALTAI\ACS15QH025R1 -WIFI 5G.EM6 (104)

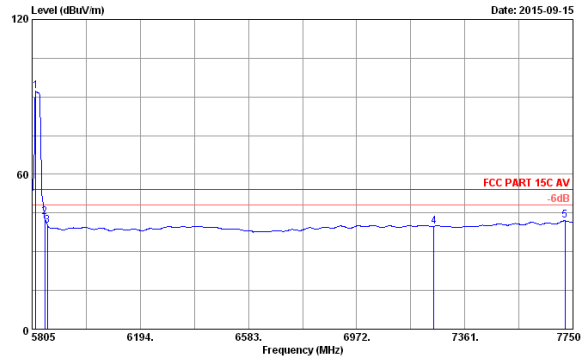


Site no. : 3m Chamber Data no. : 40
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC

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	5818.615	34.43	9.93	35.08	90.34	99.62	74.00	-25.62	Peak
2	5850.000	34.44	9.95	35.07	49.47	58.79	74.00	15.21	Peak
3	5860.000	34.45	9.95	35.07	42.47	51.80	74.00	22.20	Peak
4	7250.000	35.91	10.74	35.50	40.75	51.90	74.00	22.10	Peak
5	7720.825	36.63	11.20	35.69	43.37	55.51	74.00	18.49	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.

Data: 38 File: F:\2015 Report\A\ALTAI\ACS15QH025R1 -WIFI 5G.EM6 (104)

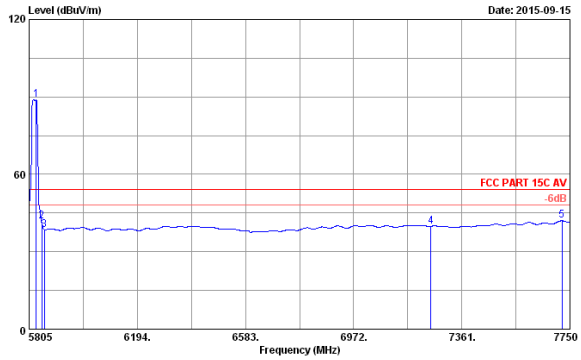


Site no. : 3m Chamber Data no. : 38
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC

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	5818.615	34.43	9.93	35.08	82.95	92.23	54.00	-38.23	Average
2	5850.000	34.44	9.95	35.07	33.99	43.31	54.00	10.69	Average
3	5860.000	34.45	9.95	35.07	30.89	40.22	54.00	13.78	Average
4	7250.000	35.91	10.74	35.50	28.77	39.92	54.00	14.08	Average
5	7720.825	36.63	11.20	35.69	29.82	41.96	54.00	12.04	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.

Data: 39 File: F:\2015 Report\A\ALTAI\ACS15QH025R1 -WIFI 5G.EM6 (104)

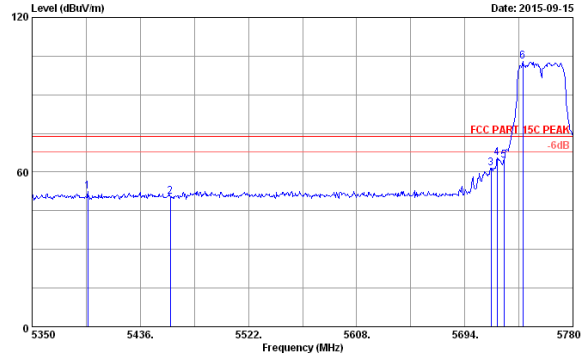


Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC

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	5830.285	34.43	9.94	35.08	79.60	88.89	54.00	-34.89	Average
2	5850.000	34.44	9.95	35.07	32.41	41.73	54.00	12.27	Average
3	5860.000	34.45	9.95	35.07	29.19	38.52	54.00	15.48	Average
4	7250.000	35.91	10.74	35.50	28.77	39.92	54.00	14.08	Average
5	7720.825	36.63	11.20	35.69	29.85	41.99	54.00	12.01	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.

Data: 47 File: F:\2015 Report\A\ALTAI\ACS15QH025R1 -WIFI 5G.EM6 (104)

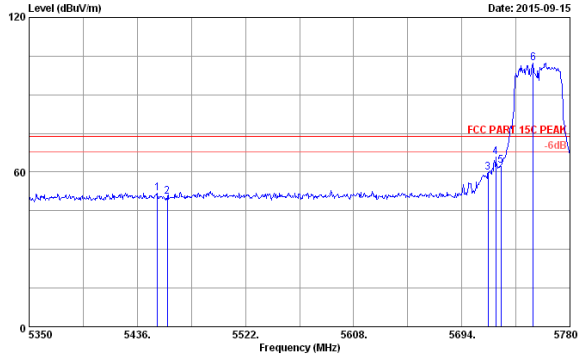


Site no. : 3m Chamber Data no. : 47
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC

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	5394.290	34.12	9.74	35.27	43.93	52.52	74.00	21.48	Peak
2	5460.000	34.23	9.76	35.25	41.84	50.58	74.00	23.42	Peak
3	5715.000	34.39	9.88	35.12	52.27	61.42	74.00	12.58	Peak
4	5719.800	34.39	9.89	35.12	56.27	65.43	74.00	8.57	Peak
5	5725.000	34.39	9.89	35.12	55.45	64.61	74.00	9.39	Peak
6	5740.010	34.40	9.90	35.11	93.60	102.79	74.00	-28.79	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.

Data: 46 File: F:\2015 Report\A\ALTAI\ACS15QH025R1 -WIFI 5G.EM6 (104)

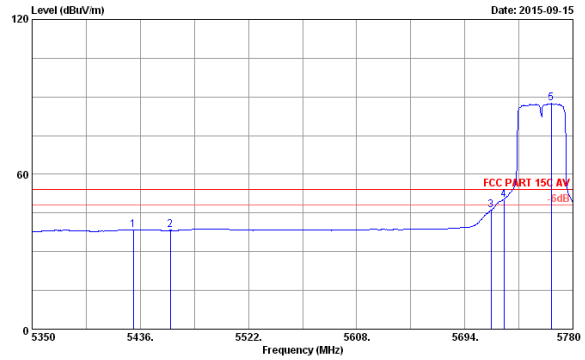


Site no. : 3m Chamber Data no. : 46
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC

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	5451.910	34.22	9.76	35.25	43.16	51.89	74.00	22.11	Peak
2	5460.000	34.23	9.76	35.25	41.61	50.35	74.00	23.65	Peak
3	5715.000	34.39	9.88	35.12	50.53	59.68	74.00	14.32	Peak
4	5721.090	34.39	9.89	35.12	56.67	65.83	74.00	8.17	Peak
5	5725.000	34.39	9.89	35.12	53.28	62.44	74.00	11.56	Peak
6	5750.760	34.40	9.90	35.11	93.07	102.26	74.00	-28.26	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.

Data: 48 File: F:\2015 Report\A\ALTAI\ACS15QH025R1 -WIFI 5G.EM6 (104)

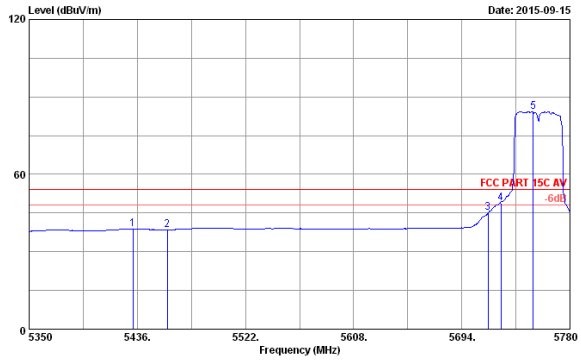


Site no. : 3m Chamber Data no. : 48
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC

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	5430.410	34.18	9.75	35.26	29.92	38.59	54.00	15.41	Average
2	5460.000	34.23	9.76	35.25	29.55	38.29	54.00	15.71	Average
3	5715.000	34.39	9.88	35.12	37.04	46.19	54.00	7.81	Average
4	5725.000	34.39	9.89	35.12	40.96	50.12	54.00	3.88	Average
5	5762.800	34.41	9.91	35.10	78.32	87.54	54.00	-33.54	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.

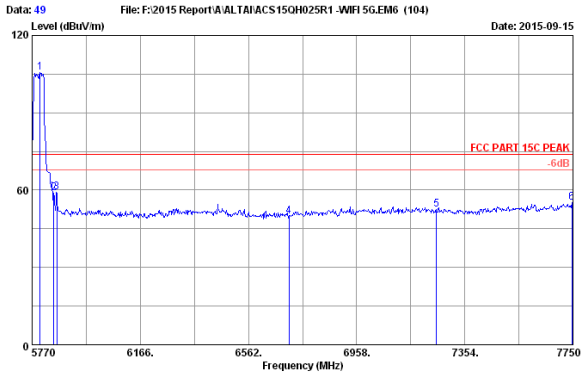
Data: 45 File: F:\2015 Report\A\ALTAI\ACS15QH025R1 -WIFI 5G.EM6 (104)



Site no. : 3m Chamber Data no. : 45
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC

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	5432.560	34.18	9.75	35.26	30.15	38.82	54.00	15.18	Average
2	5460.000	34.23	9.76	35.25	29.75	38.49	54.00	15.51	Average
3	5715.000	34.39	9.88	35.12	36.02	45.17	54.00	8.83	Average
4	5725.000	34.39	9.89	35.12	39.75	48.91	54.00	5.09	Average
5	5750.760	34.40	9.90	35.11	75.17	84.36	54.00	-30.36	Average

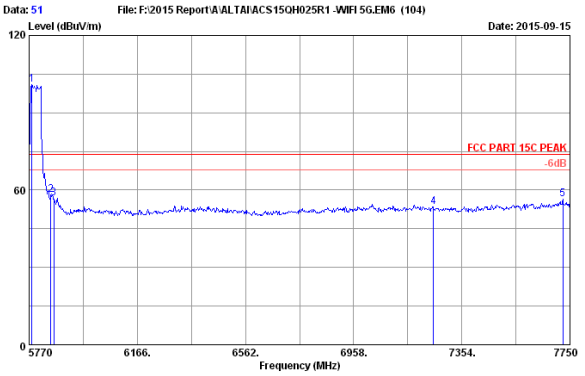
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 49
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC

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	5799.700	34.42	9.92	35.09	96.27	105.52	74.00	-31.52	Peak
2	5850.000	34.44	9.95	35.07	49.48	58.80	74.00	15.20	Peak
3	5860.000	34.45	9.95	35.07	49.68	59.01	74.00	14.99	Peak
4	6710.500	34.96	10.35	35.28	39.69	49.72	74.00	24.28	Peak
5	7250.000	35.91	10.74	35.50	41.31	52.46	74.00	21.54	Peak
6	7746.040	36.65	11.22	35.70	43.13	55.30	74.00	18.70	Peak

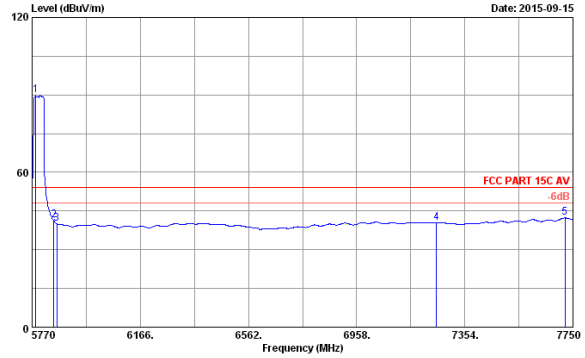
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 51
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC

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	34.41	9.91	35.10	91.68	100.90	74.00	-26.90	Peak
2	5850.000	34.44	9.95	35.07	48.95	58.27	74.00	15.73	Peak
3	5860.000	34.45	9.95	35.07	47.49	56.82	74.00	17.18	Peak
4	7250.000	35.91	10.74	35.50	42.44	53.59	74.00	20.41	Peak
5	7724.260	36.64	11.20	35.69	44.44	56.59	74.00	17.41	Peak

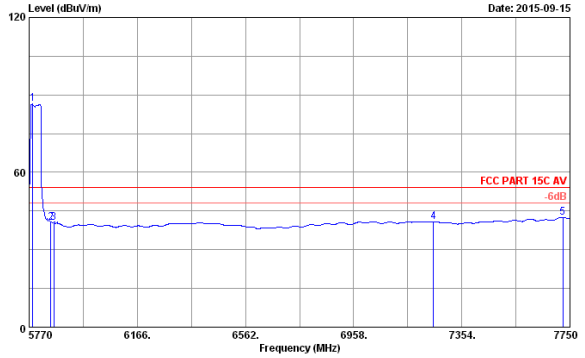
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 50
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC

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	5783.860	34.42	9.91	35.10	80.67	89.90	54.00	-35.90	Average
2	5850.000	34.44	9.95	35.07	31.97	41.29	54.00	12.71	Average
3	5860.000	34.45	9.95	35.07	30.76	40.09	54.00	13.91	Average
4	7250.000	35.91	10.74	35.50	29.27	40.42	54.00	13.58	Average
5	7720.300	36.63	11.20	35.69	30.18	42.32	54.00	11.68	Average

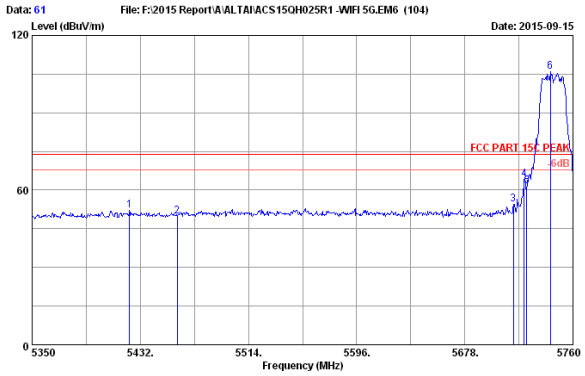
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 52
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC

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	5783.860	34.42	9.91	35.10	77.21	86.44	54.00	-32.44	Average
2	5850.000	34.44	9.95	35.07	31.22	40.54	54.00	13.46	Average
3	5860.000	34.45	9.95	35.07	31.24	40.57	54.00	13.43	Average
4	7250.000	35.91	10.74	35.50	29.51	40.66	54.00	13.34	Average
5	7724.260	36.64	11.20	35.69	30.42	42.57	54.00	11.43	Average

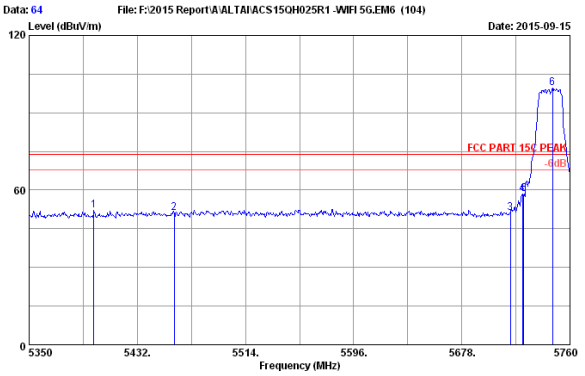
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 61
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC

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	5423.800	34.17	9.74	35.26	43.52	52.17	74.00	21.83	Peak
2	5460.000	34.23	9.76	35.25	41.21	49.95	74.00	24.05	Peak
3	5715.000	34.39	9.88	35.12	45.31	54.46	74.00	19.54	Peak
4	5723.100	34.39	9.89	35.12	55.03	64.19	74.00	9.81	Peak
5	5725.000	34.39	9.89	35.12	52.26	61.42	74.00	12.58	Peak
6	5742.780	34.40	9.90	35.11	96.79	105.98	74.00	-31.98	Peak

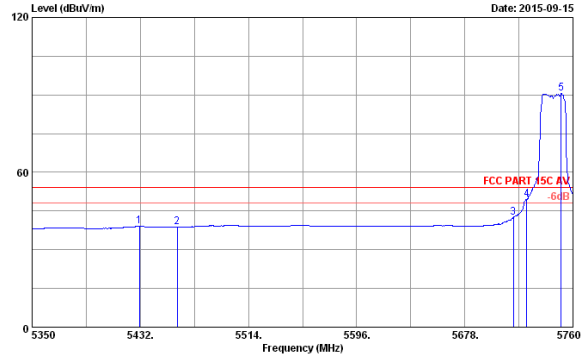
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 64
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC

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	5399.200	34.13	9.74	35.27	43.71	52.31	74.00	21.69	Peak
2	5460.000	34.23	9.76	35.25	42.56	51.30	74.00	22.70	Peak
3	5715.000	34.39	9.88	35.12	41.86	51.01	74.00	22.99	Peak
4	5723.920	34.39	9.89	35.12	49.38	58.54	74.00	15.46	Peak
5	5725.000	34.39	9.89	35.12	49.17	58.33	74.00	15.67	Peak
6	5746.880	34.40	9.90	35.11	90.42	99.61	74.00	-25.61	Peak

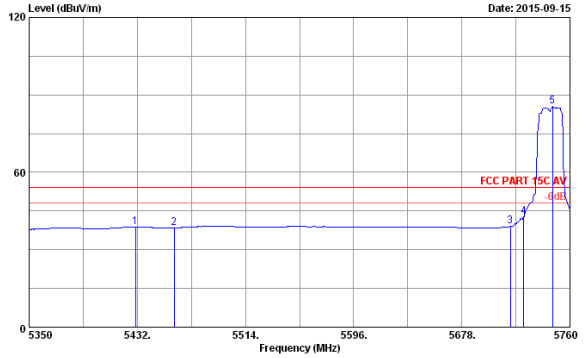
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 62
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC

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	5431.180	34.18	9.75	35.26	30.53	39.20	54.00	14.80	Average
2	5460.000	34.23	9.76	35.25	29.97	38.71	54.00	15.29	Average
3	5715.000	34.39	9.88	35.12	33.42	42.57	54.00	11.43	Average
4	5725.000	34.39	9.89	35.12	40.28	49.44	54.00	4.56	Average
5	5750.980	34.40	9.90	35.11	81.52	90.71	54.00	-36.71	Average

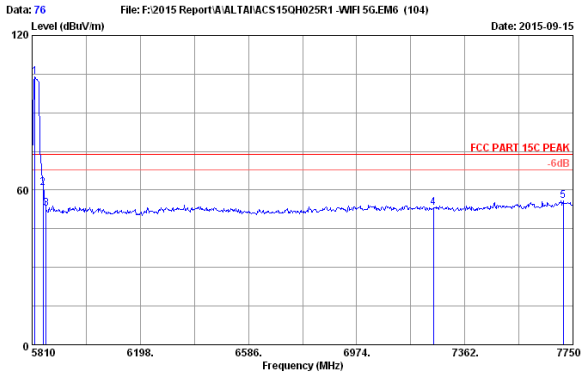
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 63
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC

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	34.18	9.75	35.26	30.14	38.81	54.00	15.19	Average
2	5460.000	34.23	9.76	35.25	29.79	38.53	54.00	15.47	Average
3	5715.000	34.39	9.88	35.12	29.80	38.95	54.00	15.05	Average
4	5725.000	34.39	9.89	35.12	33.79	42.95	54.00	11.05	Average
5	5746.880	34.40	9.90	35.11	76.37	85.56	54.00	-31.56	Average

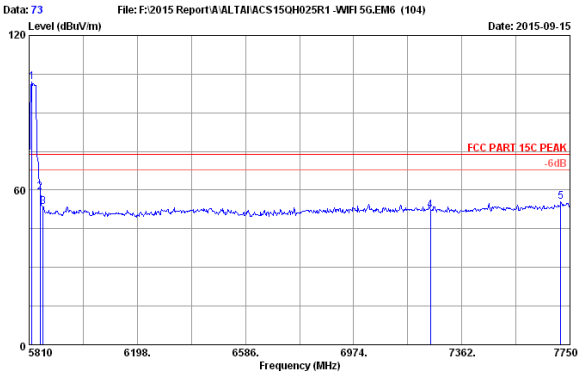
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 76
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC

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	34.43	9.93	35.08	94.77	104.05	74.00	-30.05	Peak
2	5850.000	34.44	9.95	35.07	51.60	60.92	74.00	13.08	Peak
3	5860.000	34.45	9.95	35.07	43.53	52.86	74.00	21.14	Peak
4	7250.000	35.91	10.74	35.50	42.00	53.15	74.00	20.85	Peak
5	7715.080	36.63	11.20	35.69	43.55	55.69	74.00	18.31	Peak

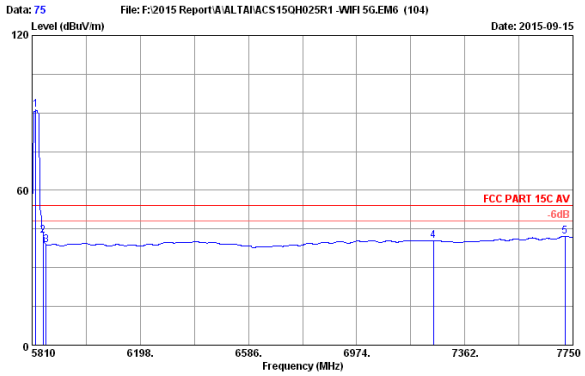
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 73
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC

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	34.43	9.93	35.08	92.69	101.97	74.00	-27.97	Peak
2	5850.000	34.44	9.95	35.07	49.99	59.31	74.00	14.69	Peak
3	5860.000	34.45	9.95	35.07	44.31	53.64	74.00	20.36	Peak
4	7250.000	35.91	10.74	35.50	41.13	52.28	74.00	21.72	Peak
5	7717.020	36.63	11.20	35.69	43.50	55.64	74.00	18.36	Peak

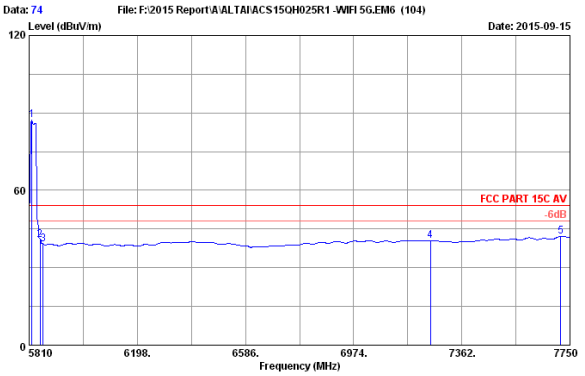
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 75
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC

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	34.43	9.93	35.08	81.87	91.15	54.00	-37.15	Average
2	5850.000	34.44	9.95	35.07	33.12	42.44	54.00	11.56	Average
3	5860.000	34.45	9.95	35.07	29.53	38.86	54.00	15.14	Average
4	7250.000	35.91	10.74	35.50	29.25	40.40	54.00	13.60	Average
5	7720.900	36.63	11.20	35.69	30.10	42.24	54.00	11.76	Average

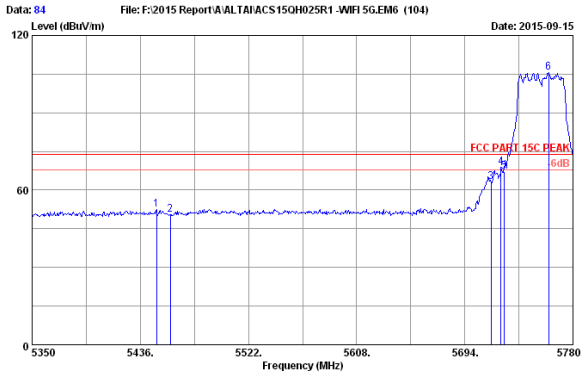
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 74
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC

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	34.43	9.93	35.08	77.80	87.08	54.00	-33.08	Average
2	5850.000	34.44	9.95	35.07	31.49	40.81	54.00	13.19	Average
3	5860.000	34.45	9.95	35.07	29.83	39.16	54.00	14.84	Average
4	7250.000	35.91	10.74	35.50	29.26	40.41	54.00	13.59	Average
5	7717.020	36.63	11.20	35.69	30.11	42.25	54.00	11.75	Average

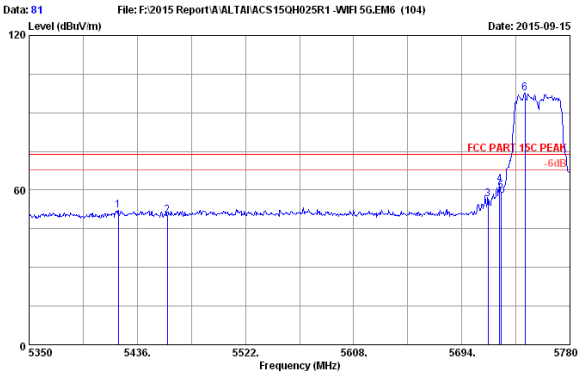
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 84
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC

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	5448.900	34.21	9.76	35.25	43.83	52.55	74.00	21.45	Peak
2	5460.000	34.23	9.76	35.25	41.71	50.45	74.00	23.55	Peak
3	5715.000	34.39	9.88	35.12	54.05	63.20	74.00	10.80	Peak
4	5722.810	34.39	9.89	35.12	59.58	68.74	74.00	5.26	Peak
5	5725.000	34.39	9.89	35.12	57.94	67.10	74.00	6.90	Peak
6	5760.650	34.41	9.91	35.11	96.35	105.56	74.00	-31.56	Peak

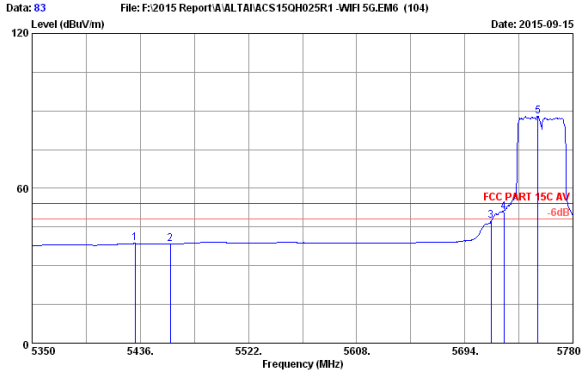
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 81
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC

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	5420.950	34.16	9.74	35.26	43.48	52.12	74.00	21.88	Peak
2	5460.000	34.23	9.76	35.25	41.53	50.27	74.00	23.73	Peak
3	5715.000	34.39	9.88	35.12	47.24	56.39	74.00	17.61	Peak
4	5724.100	34.39	9.89	35.12	52.89	62.05	74.00	11.95	Peak
5	5725.000	34.39	9.89	35.12	50.49	59.65	74.00	14.35	Peak
6	5744.310	34.40	9.90	35.11	88.39	97.58	74.00	-23.58	Peak

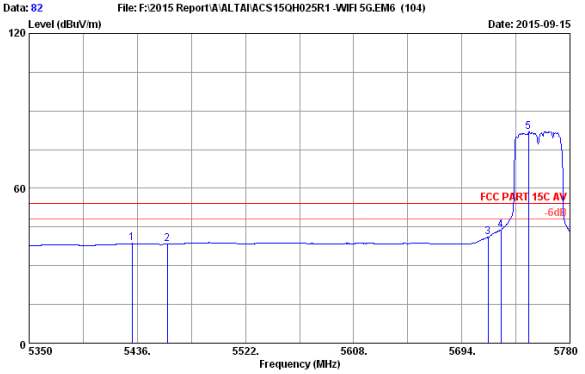
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 83
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC

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	5431.700	34.18	9.75	35.26	29.96	38.63	54.00	15.37	Average
2	5460.000	34.23	9.76	35.25	29.68	38.42	54.00	15.58	Average
3	5715.000	34.39	9.88	35.12	38.30	47.45	54.00	6.55	Average
4	5725.000	34.39	9.89	35.12	41.81	50.97	54.00	3.03	Average
5	5752.050	34.40	9.90	35.11	78.88	88.07	54.00	-34.07	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.

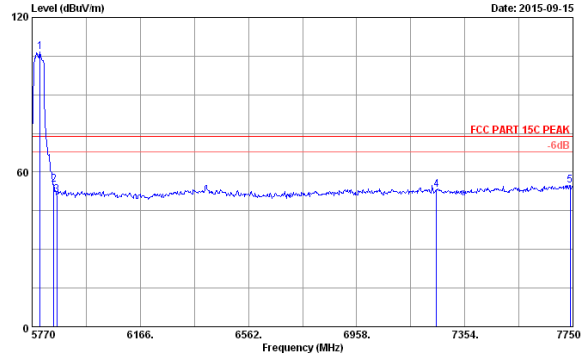


Site no. : 3m Chamber Data no. : 82
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC

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	5431.700	34.18	9.75	35.26	29.94	38.61	54.00	15.39	Average
2	5460.000	34.23	9.76	35.25	29.56	38.30	54.00	15.70	Average
3	5715.000	34.39	9.88	35.12	31.85	41.00	54.00	13.00	Average
4	5725.000	34.39	9.89	35.12	34.58	43.74	54.00	10.26	Average
5	5746.890	34.40	9.90	35.11	72.73	81.92	54.00	-27.92	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.

Data: 92 File: F:\2015 Report\A\ALTAI\ACS15QH025R1 -WIFI 5G.EM6 (104)

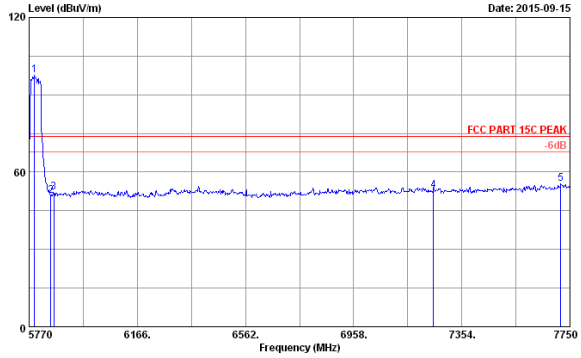


Site no. : 3m Chamber Data no. : 92
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC

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	5799.700	34.42	9.92	35.09	97.34	106.59	74.00	-32.59	Peak
2	5850.000	34.44	9.95	35.07	45.76	55.08	74.00	18.92	Peak
3	5860.000	34.45	9.95	35.07	41.93	51.26	74.00	22.74	Peak
4	7250.000	35.91	10.74	35.50	42.06	53.21	74.00	20.79	Peak
5	7740.100	36.65	11.22	35.70	42.76	54.93	74.00	19.07	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.

Data: 89 File: F:\2015 Report\A\ALTAI\ACS15QH025R1 -WIFI 5G.EM6 (104)

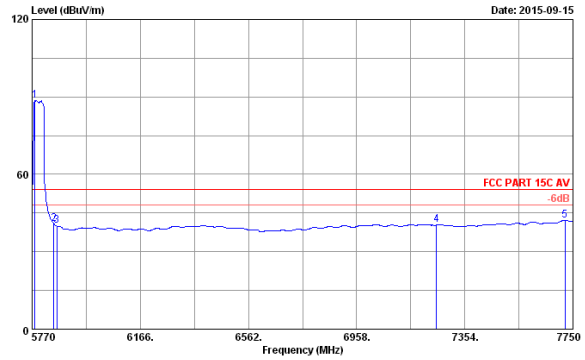


Site no. : 3m Chamber Data no. : 89
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC

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	34.42	9.92	35.09	88.19	97.44	74.00	-23.44	Peak
2	5850.000	34.44	9.95	35.07	41.41	50.73	74.00	23.27	Peak
3	5860.000	34.45	9.95	35.07	42.85	52.18	74.00	21.82	Peak
4	7250.000	35.91	10.74	35.50	41.72	52.87	74.00	21.13	Peak
5	7716.340	36.63	11.20	35.69	43.45	55.59	74.00	18.41	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.

Data: 91 File: F:\2015 Report\A\ALTAI\ACS15QH025R1 -WIFI 5G.EM6 (104)

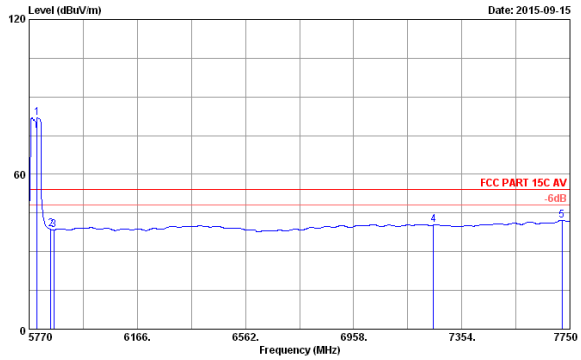


Site no. : 3m Chamber Data no. : 91
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC

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	34.41	9.91	35.10	79.45	88.67	54.00	-34.67	Average
2	5850.000	34.44	9.95	35.07	31.50	40.82	54.00	13.18	Average
3	5860.000	34.45	9.95	35.07	30.66	39.99	54.00	14.01	Average
4	7250.000	35.91	10.74	35.50	29.13	40.28	54.00	13.72	Average
5	7720.300	36.63	11.20	35.69	30.01	42.15	54.00	11.85	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.

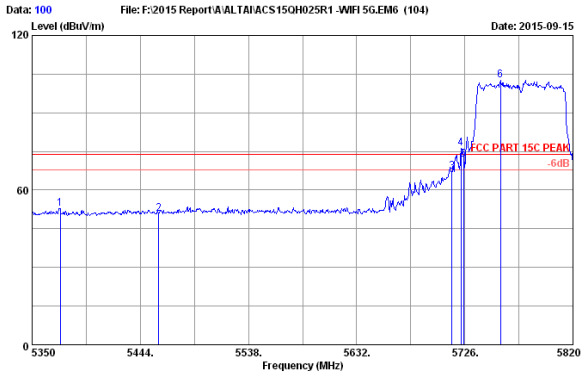
Data: 90 File: F:\2015 Report\A\ALTAI\ACS15QH025R1 -WIFI 5G.EM6 (104)



Site no. : 3m Chamber Data no. : 90
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC

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	5799.700	34.42	9.92	35.09	72.72	81.97	54.00	-27.97	Average
2	5850.000	34.44	9.95	35.07	29.37	38.69	54.00	15.31	Average
3	5860.000	34.45	9.95	35.07	29.13	38.46	54.00	15.54	Average
4	7250.000	35.91	10.74	35.50	29.13	40.28	54.00	13.72	Average
5	7720.300	36.63	11.20	35.69	30.01	42.15	54.00	11.85	Average

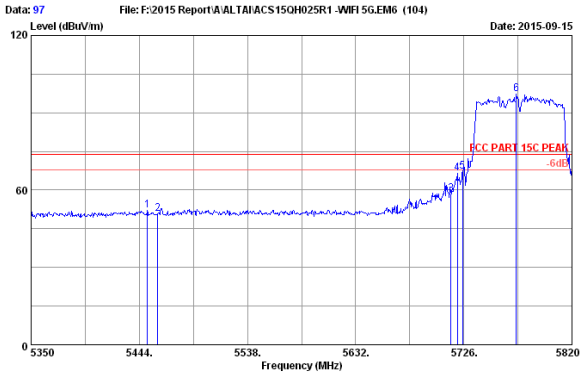
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 100
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC

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	5374.440	34.08	9.72	35.28	44.26	52.78	74.00	21.22	Peak
2	5460.000	34.23	9.76	35.25	42.21	50.95	74.00	23.05	Peak
3	5715.000	34.39	9.88	35.12	58.11	67.26	74.00	6.74	Peak
4	5722.710	34.39	9.89	35.12	67.18	76.34	74.00	-2.34	Peak
5	5725.000	34.39	9.89	35.12	62.68	71.84	74.00	2.16	Peak
6	5757.020	34.40	9.91	35.11	93.55	102.75	74.00	-28.75	Peak

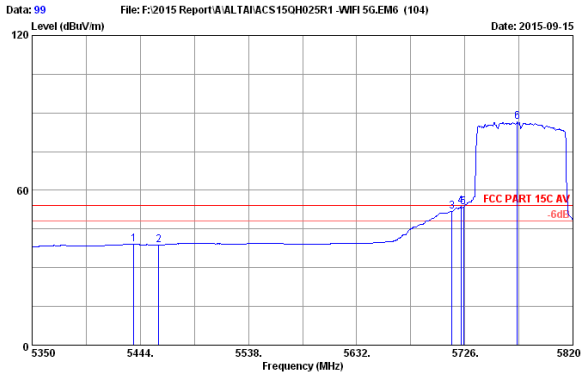
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 97
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC

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	5451.050	34.22	9.76	35.25	43.44	52.17	74.00	21.83	Peak
2	5460.000	34.23	9.76	35.25	42.07	50.81	74.00	23.19	Peak
3	5715.000	34.39	9.88	35.12	49.47	58.62	74.00	15.38	Peak
4	5720.360	34.39	9.89	35.12	57.20	66.36	74.00	7.64	Peak
5	5725.000	34.39	9.89	35.12	57.88	67.04	74.00	6.96	Peak
6	5771.590	34.41	9.91	35.10	88.07	97.29	74.00	-23.29	Peak

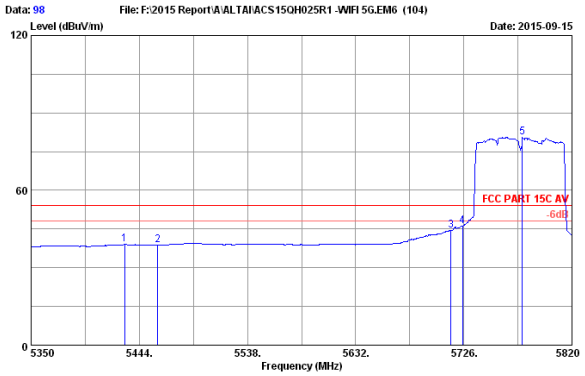
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 99
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC

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	5438.360	34.19	9.75	35.25	30.34	39.03	54.00	14.97	Average
2	5460.000	34.23	9.76	35.25	30.15	38.89	54.00	15.11	Average
3	5715.000	34.39	9.88	35.12	42.58	51.73	54.00	2.27	Average
4	5722.710	34.39	9.89	35.12	44.56	53.72	54.00	0.28	Average
5	5725.000	34.39	9.89	35.12	44.44	53.60	54.00	0.40	Average
6	5771.590	34.41	9.91	35.10	77.52	86.74	54.00	-32.74	Average

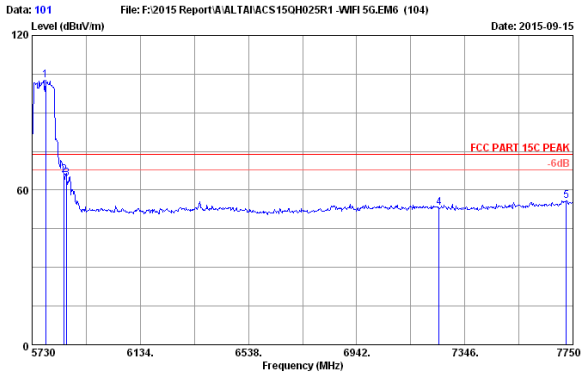
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 98
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC

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	5431.310	34.18	9.75	35.26	30.31	38.98	54.00	15.02	Average
2	5460.000	34.23	9.76	35.25	30.02	38.76	54.00	15.24	Average
3	5715.000	34.39	9.88	35.12	35.38	44.53	54.00	9.47	Average
4	5725.000	34.39	9.89	35.12	37.04	46.20	54.00	7.80	Average
5	5776.760	34.41	9.91	35.10	71.32	80.54	54.00	-26.54	Average

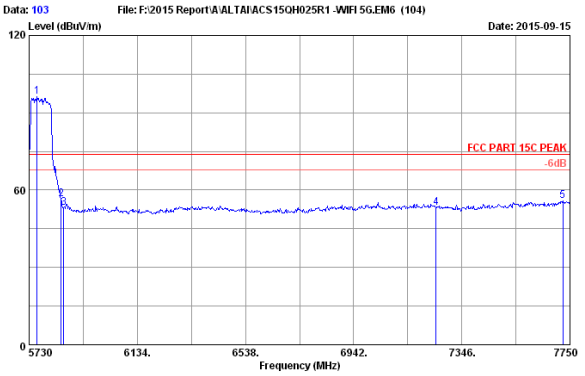
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 101
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC

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	34.41	9.91	35.10	93.44	102.66	74.00	-28.66	Peak
2	5850.000	34.44	9.95	35.07	56.45	65.77	74.00	8.23	Peak
3	5860.000	34.45	9.95	35.07	55.09	64.42	74.00	9.58	Peak
4	7250.000	35.91	10.74	35.50	41.92	53.07	74.00	20.93	Peak
5	7725.760	36.64	11.20	35.69	43.79	55.94	74.00	18.06	Peak

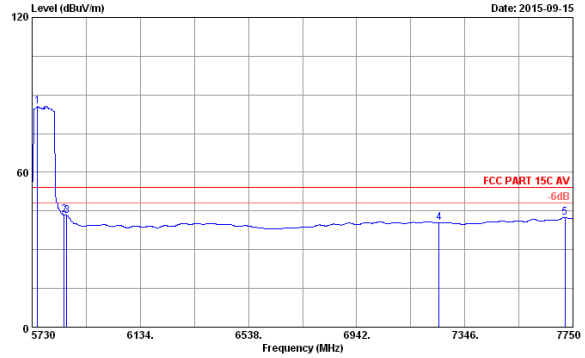
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 103
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC

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	5760.300	34.41	9.91	35.11	87.00	96.21	74.00	-22.21	Peak
2	5850.000	34.44	9.95	35.07	47.32	56.64	74.00	17.36	Peak
3	5860.000	34.45	9.95	35.07	43.84	53.17	74.00	20.83	Peak
4	7250.000	35.91	10.74	35.50	42.11	53.26	74.00	20.74	Peak
5	7723.740	36.64	11.20	35.69	43.73	55.88	74.00	18.12	Peak

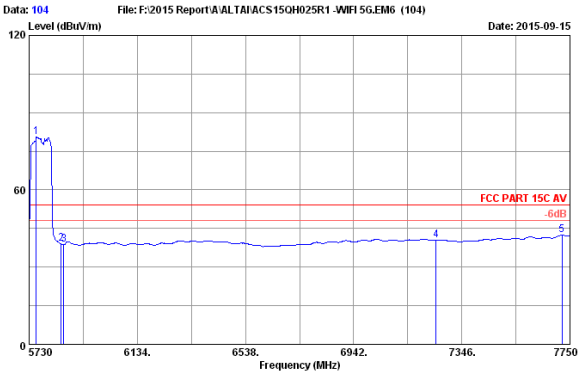
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 102
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC

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	34.40	9.90	35.11	76.46	85.65	54.00	-31.65	Average
2	5850.000	34.44	9.95	35.07	34.08	43.40	54.00	10.60	Average
3	5860.000	34.45	9.95	35.07	33.86	43.19	54.00	10.81	Average
4	7250.000	35.91	10.74	35.50	29.38	40.53	54.00	13.47	Average
5	7719.700	36.63	11.20	35.69	30.28	42.42	54.00	11.58	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. : 104
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8-Ein (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC

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	5756.260	34.40	9.91	35.11	71.24	80.44	54.00	-26.44	Average
2	5850.000	34.44	9.95	35.07	29.66	38.98	54.00	15.02	Average
3	5860.000	34.45	9.95	35.07	29.49	38.82	54.00	15.18	Average
4	7250.000	35.91	10.74	35.50	29.34	40.49	54.00	13.51	Average
5	7719.700	36.63	11.20	35.69	30.27	42.41	54.00	11.59	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.

6. 6dB&26dB Bandwidth Test

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct. 29, 14	1Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,15	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,15	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

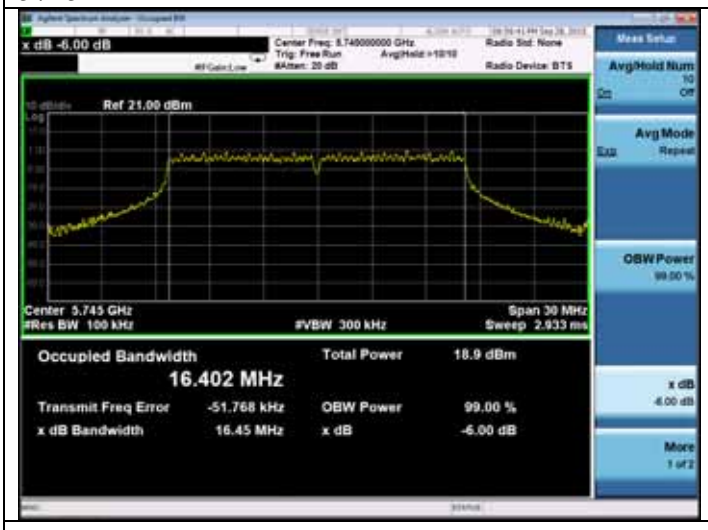
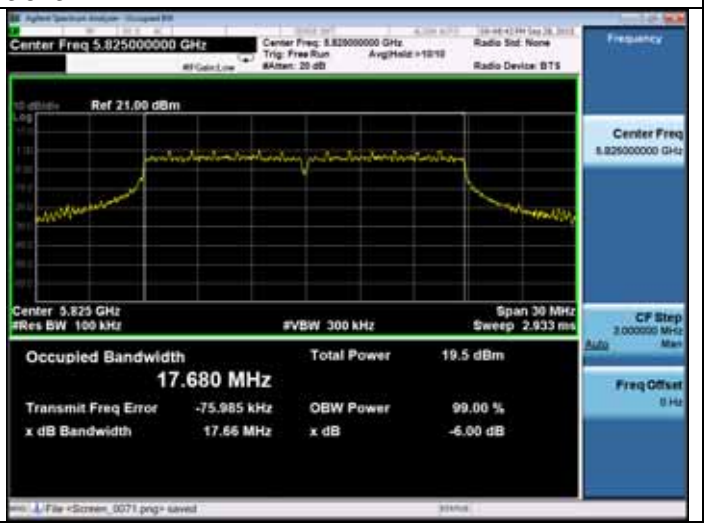
EUT: Altai A8-Ein (ac) Super WiFi Base Station		
M/N: WA8011NAC		
Test date: 2015-09-29	Pressure: 101.2±1.0kpa	Humidity:52.9±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:22.8±0.6 ℃

Test Mode	Frequency (MHz)	6dB bandwidth (MHz)		Limit (KHz)
		ANT 0	ANT 1	
11a	5745	16.45	16.46	≧500
	5785	16.42	16.46	≧500
	5825	16.44	16.41	≧500
11n HT20	5745	17.67	17.71	≧500
	5785	17.71	17.71	≧500
	5825	17.66	17.66	≧500
11n HT40	5755	35.07	37.07	≧500
	5795	35.88	35.13	≧500
11ac VHT20	5745	17.73	17.67	≧500
	5785	17.71	17.70	≧500
	5825	17.64	17.66	≧500
11ac VHT40	5755	32.59	36.71	≧500
	5795	36.00	36.17	≧500
11ac VHT80	5775	75.11	75.11	≧500
Conclusion：PASS				

26dB bandwidth

EUT: Altai A8-Ein (ac) Super WiFi Base Station		
M/N:WA8011NAC		
Test date: 2015-09-29	Pressure: 101.2±1.0kpa	Humidity:52.9±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:22.8±0.6 ℃

Test Mode	Frequency（MHz）	26dB bandwidth（MHz）		Limit (KHz)
		ANT 0	ANT 1	
11a	5745	19.07	18.87	N/A
	5785	19.23	19.16	N/A
	5825	18.54	18.46	N/A
11n HT20	5745	20.99	20.99	N/A
	5785	20.70	20.69	N/A
	5825	21.17	21.19	N/A
11n HT40	5755	39.33	39.24	N/A
	5795	40.26	38.99	N/A
11ac VHT20	5745	20.96	20.97	N/A
	5785	20.42	20.72	N/A
	5825	21.06	21.17	N/A
11ac VHT40	5755	39.41	39.80	N/A
	5795	47.80	38.99	N/A
11ac VHT80	5775	93.45	99.85	N/A
Conclusion：PASS				

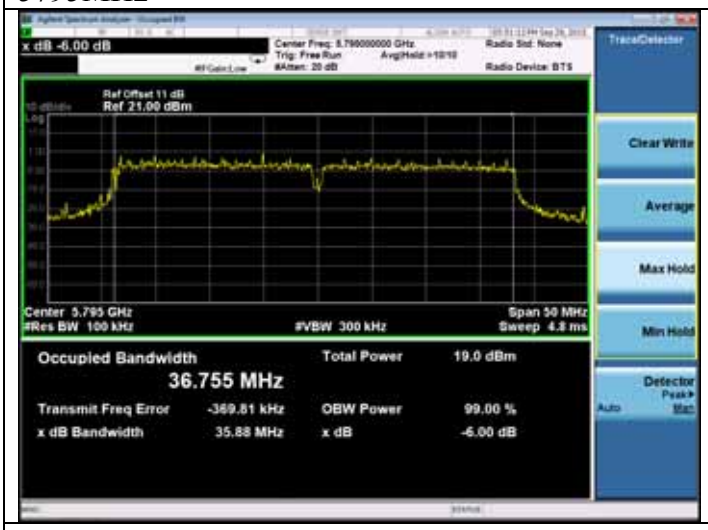
6dB bandwidth	
ANT 0	
11a	11n HT20
5745MHz	5745MHz
	
5785MHz	5785MHz
	
5825MHz	5825MHz
	

11n HT40

5755MHz

5785MHz

5795MHz



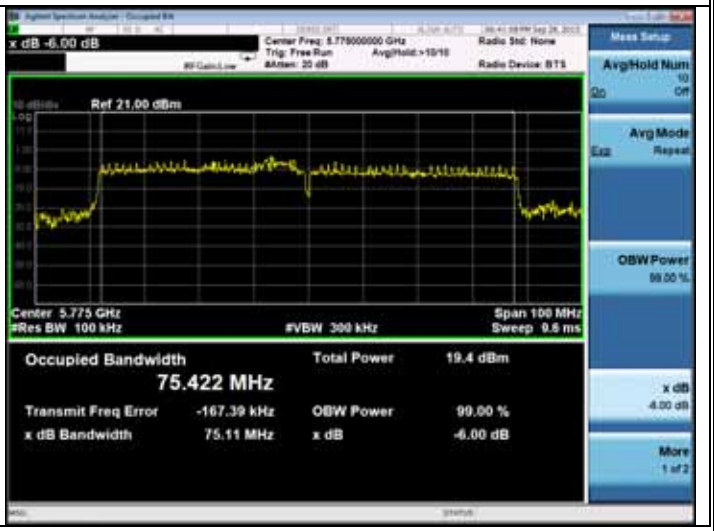
5825MHz

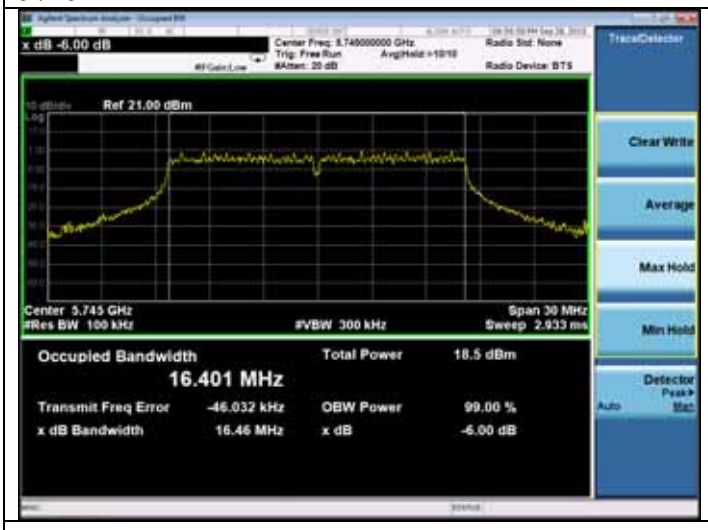
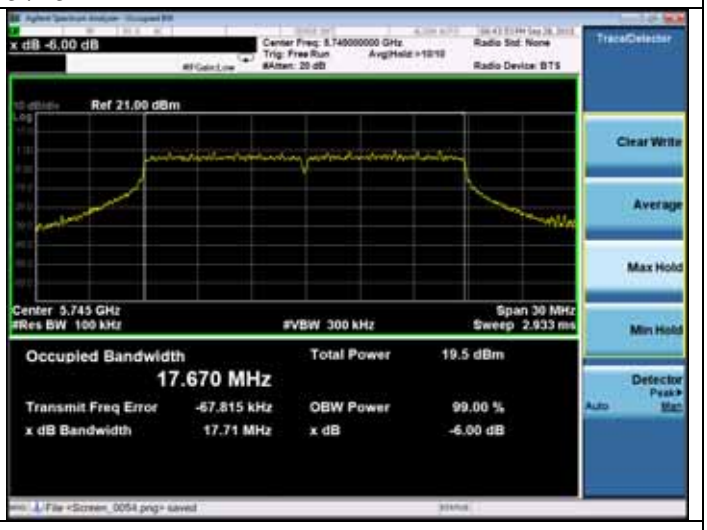
11ac VHT20

5745MHz

11ac VHT40

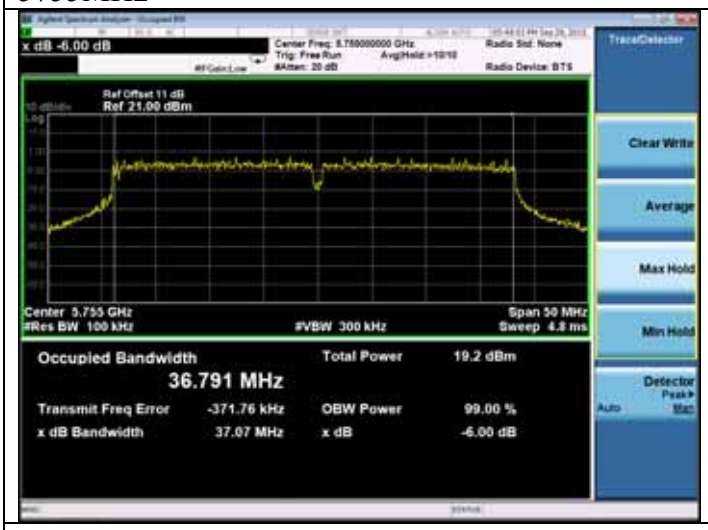
5755MHz

	11ac VHT80
5795MHz	5775MHz
	

6dB bandwidth	
ANT 1	
11a	11n HT20
5745MHz	5745MHz
	
5785MHz	5785MHz
	
5825MHz	5825MHz
	

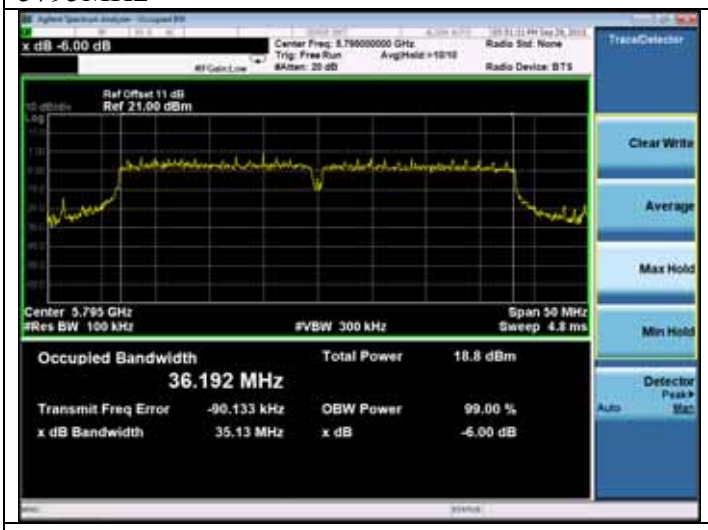
11n HT40

5755MHz



5785MHz

5795MHz



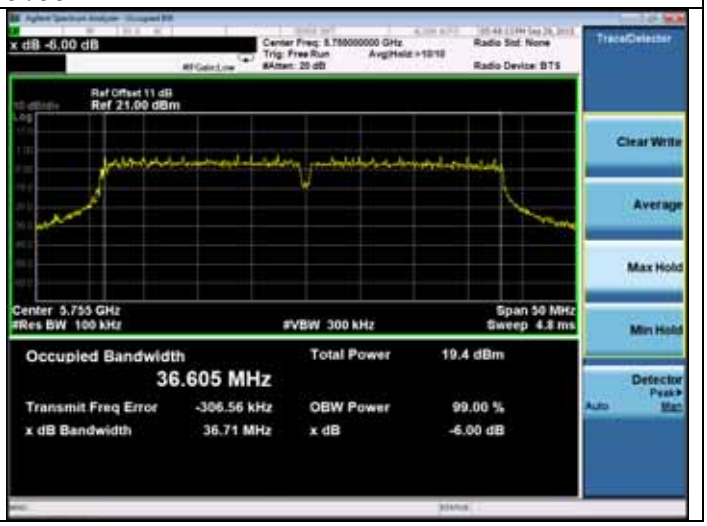
5825MHz

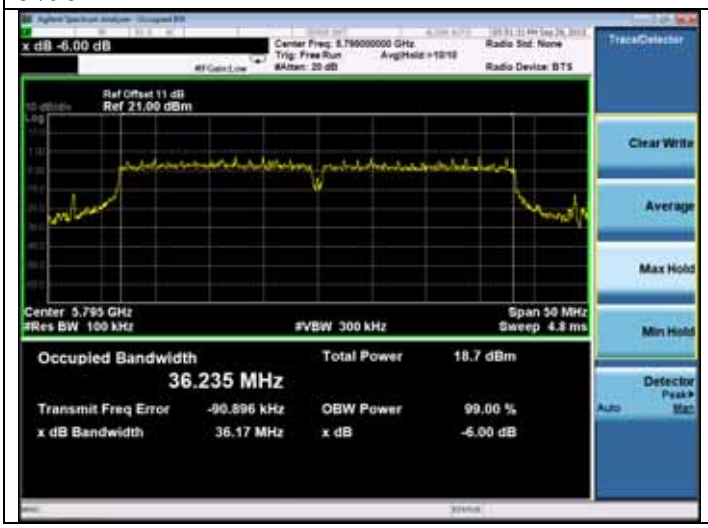
11ac VHT20

5745MHz

11ac VHT40

5755MHz



	11ac VHT80
5795MHz	5775MHz
	

26dB bandwidth	
ANT 0	
11a	11n HT20
5745MHz	5745MHz
	
5785MHz	5785MHz
	
5825MHz	5825MHz
	

11n HT40

5755MHz

5785MHz

5795MHz

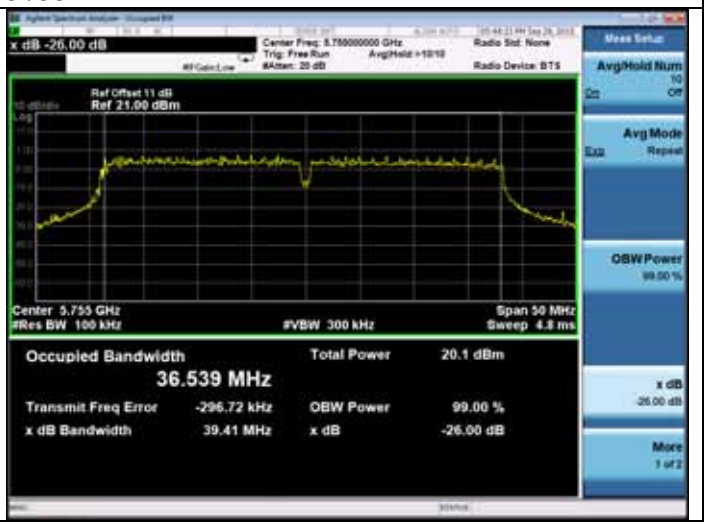
5825MHz

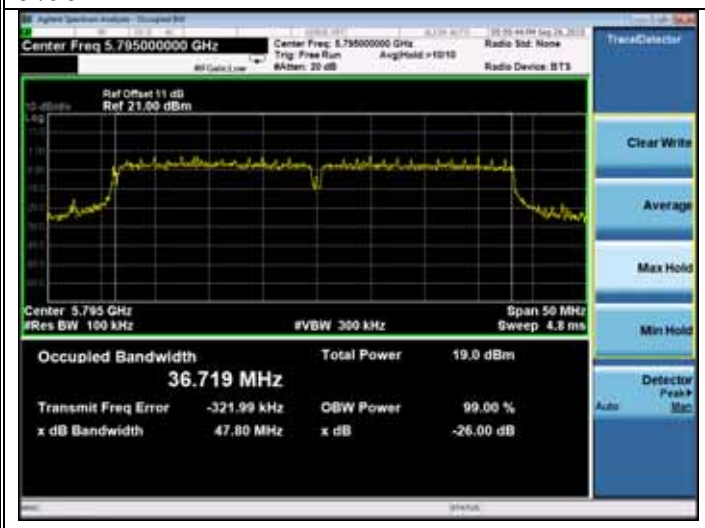
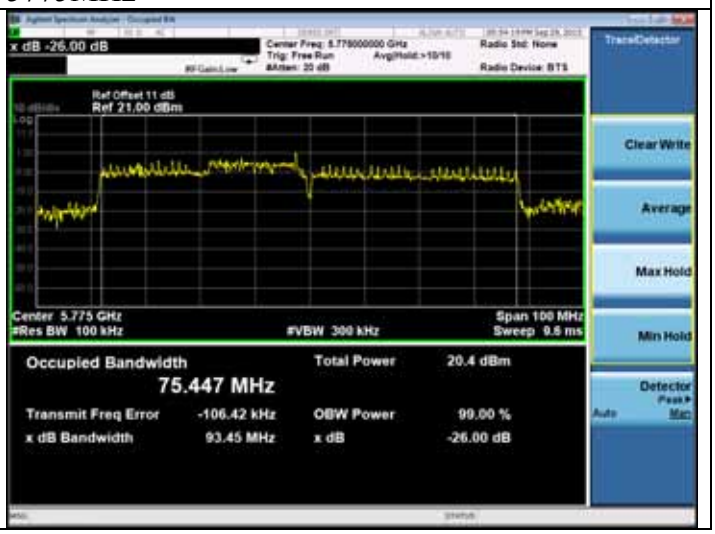
11ac VHT20

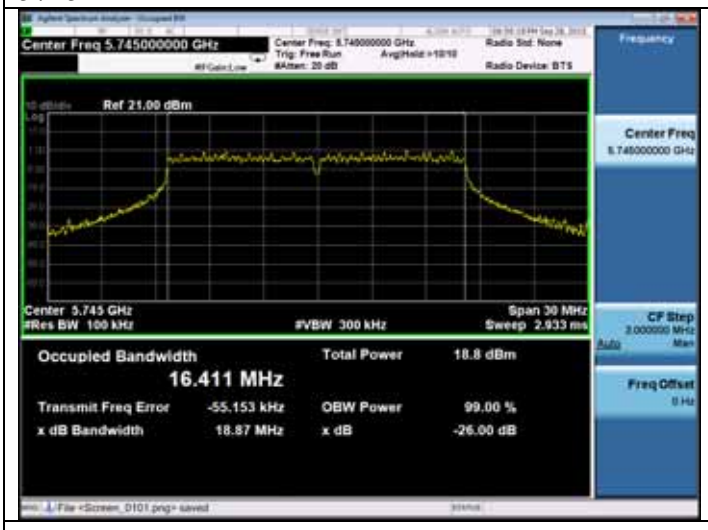
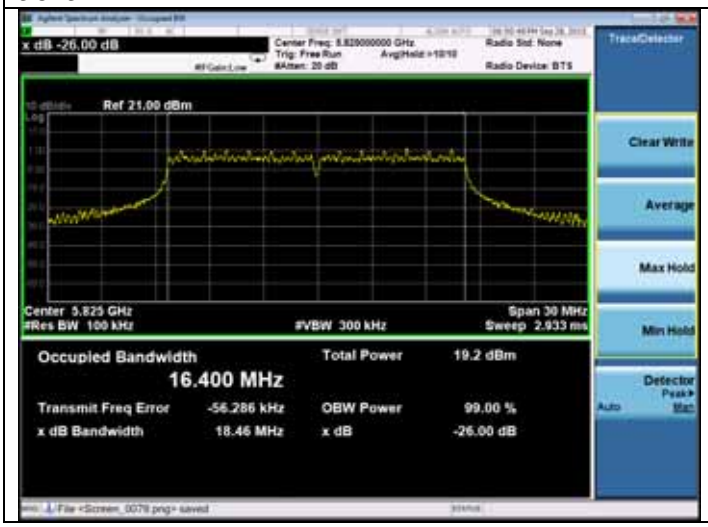
5745MHz

11ac VHT40

5755MHz



5795MHz	**11ac VHT80** 5775MHz
	

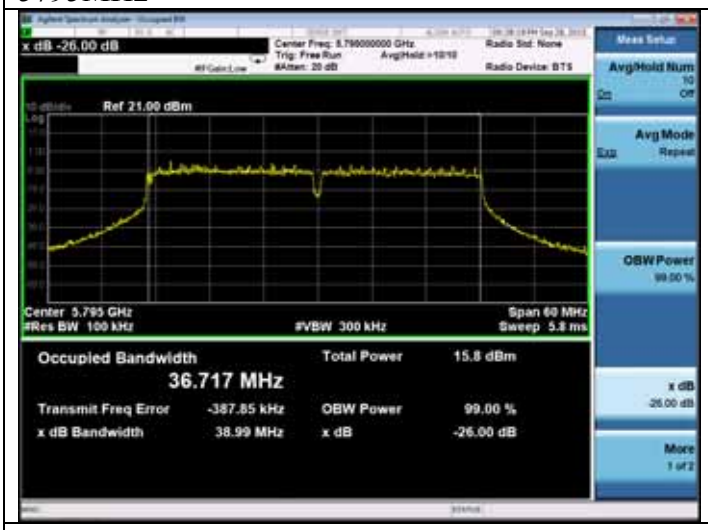
26dB bandwidth	
ANT 1	
11a	11n HT20
5745MHz	5745MHz
	
5785MHz	5785MHz
	
5825MHz	5825MHz
	

11n HT40

5755MHz

5785MHz

5795MHz



5825MHz

11ac VHT20

5745MHz

11ac VHT40

5755MHz

	11ac VHT80
5795MHz	5775MHz
	

7. OUTPUT POWER TEST

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
2.	Power meter	Anritsu	ML2487A	6K00002472	Apr.28, 15	1Year
3.	Power sensor	Anritsu	MA2491A	0033005	Apr.28, 15	1Year
4.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.28, 15	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr.28, 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 max-imum 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 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 ≥ 2 Span / 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 A8-Ein (ac) Super WiFi Base Station		
M/N:WA8011NAC		
Test date: 2015-09-28	Pressure: 101.3±1.0 kpa	Humidity:53.8±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:23.2±0.6 ℃

Test Mode	Frequency (MHz)	Maximum Conducted Output Power (dBm)			Limit (dBm)
		ANT 0	ANT 1	Total	
11a	5745	10.48	10.64	13.57	16
	5785	10.82	10.73	13.79	16
	5825	10.86	10.98	13.93	16
11n HT20	5745	11.19	11.08	14.15	13
	5785	11.12	11.16	14.15	13
	5825	10.85	10.95	13.91	13
11n HT40	5755	11.03	11.01	14.03	13
	5795	11.56	11.57	14.58	13
11ac VHT20	5745	11.22	11.07	14.16	13
	5785	11.07	10.96	14.03	13
	5825	11.06	11.01	14.05	13
11ac VHT40	5755	10.99	11.07	14.04	13
	5795	11.66	11.60	14.64	13
11ac VHT80	5775	8.30	8.34	11.33	13
Conclusion：PASS					

Note: (1)11a Mode:

Directional Dain= G_{ANT}+ Array Gain

=20dBi+0dBi

=20dBi＞6dBi

(2)11n /ac Mode:

Directional Dain= G_{ANT}+ Array Gain

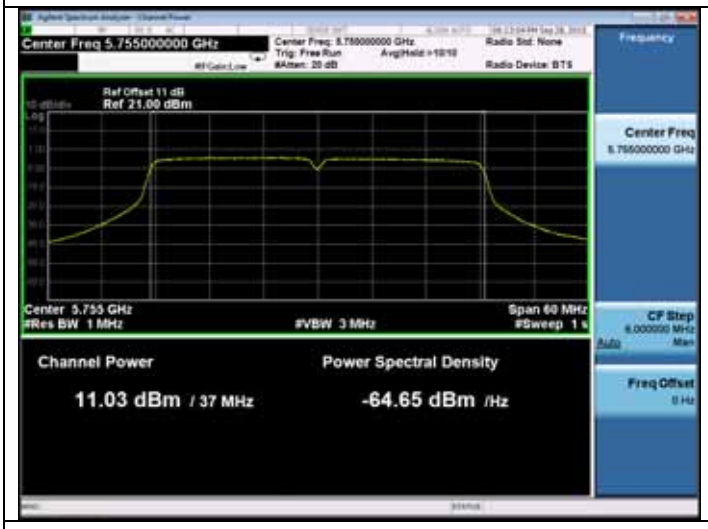
=20dBi+ (10log2)dBi

=23dBi＞6dBi

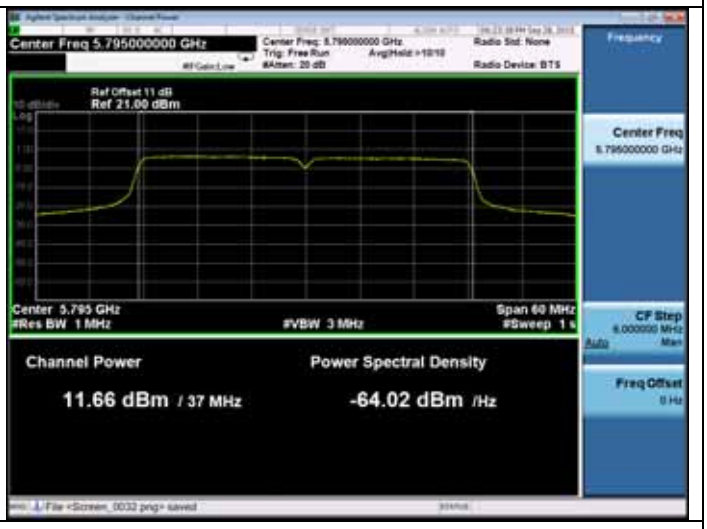
ANT 0

11n HT40

5755MHz

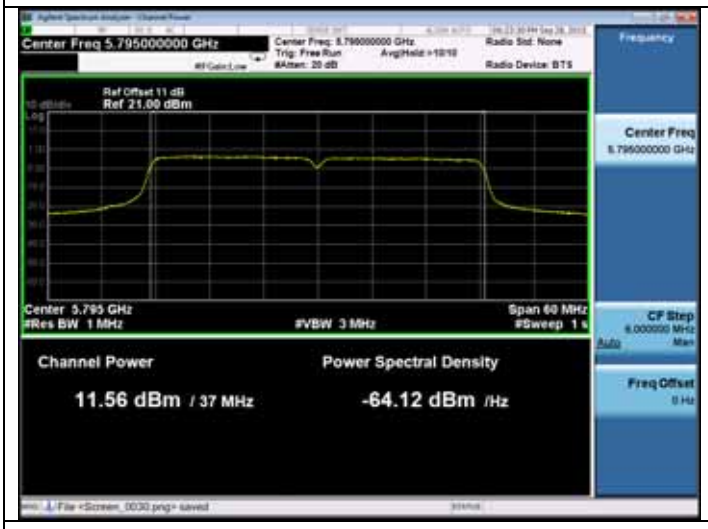


5795MHz



11ac VHT80

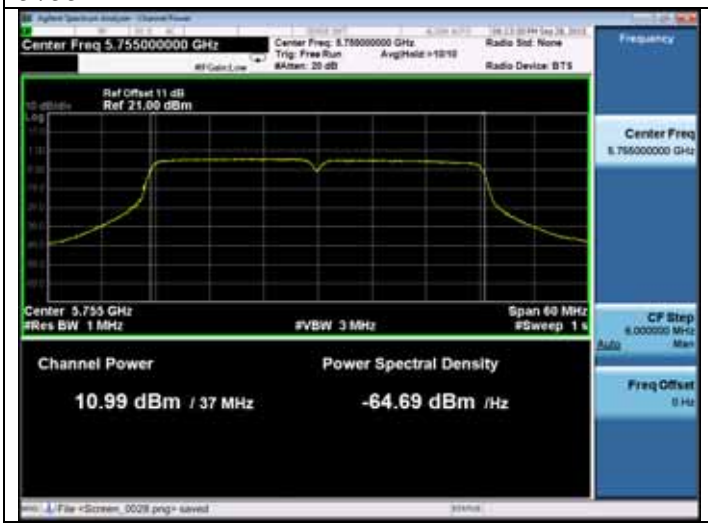
5795MHz



5775MHz

11acVHT40

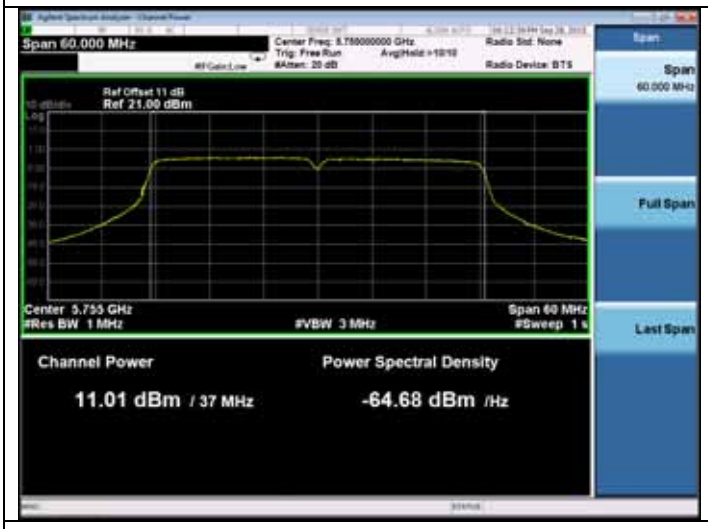
5755MHz



ANT 1

11n HT40

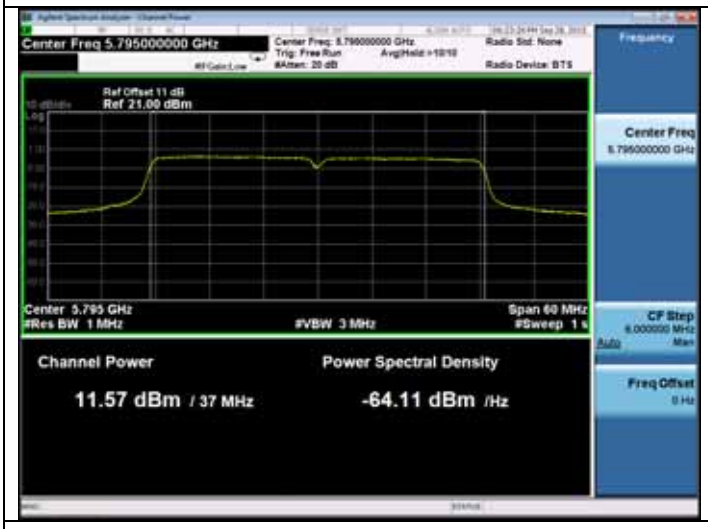
5755MHz



5795MHz

11ac VHT80

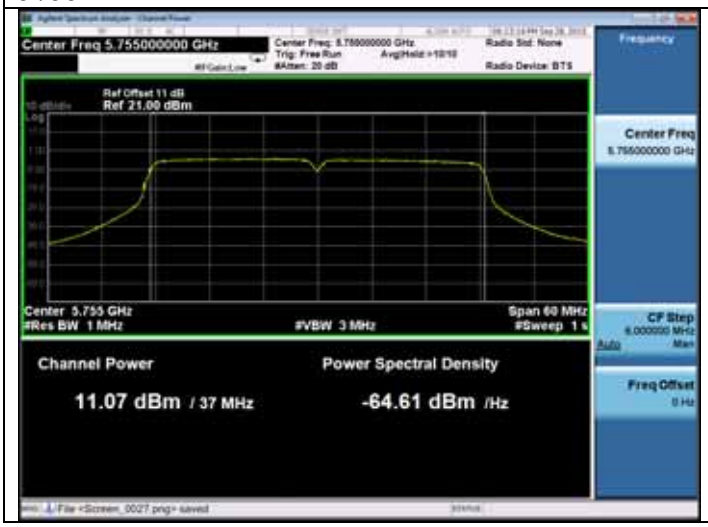
5795MHz



5775MHz

11acVHT40

5755MHz



8. SPECTRAL DENSITY TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.28, 15	1 Year
3	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	Apr.28, 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 ≤ 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 10log (500kHz/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 A8-Ein (ac) Super WiFi Base Station		
M/N: WA8011NAC		
Test date: 2015-09-29	Pressure: 101.3±1.0 kpa	Humidity:53.8±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:23.2±0.6 ℃

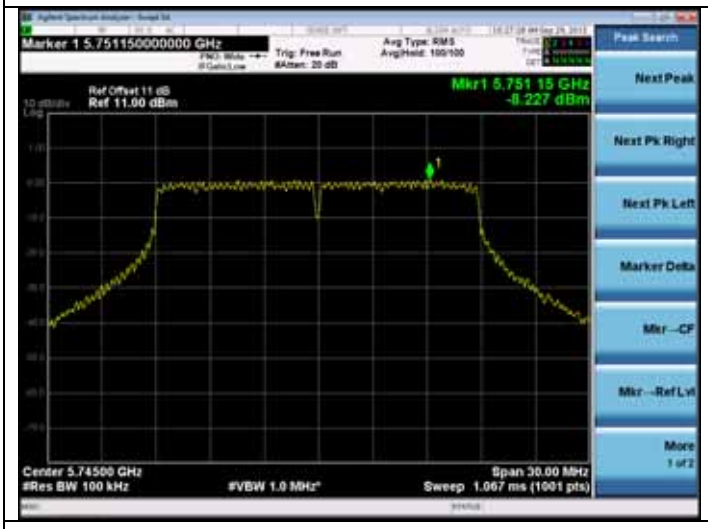
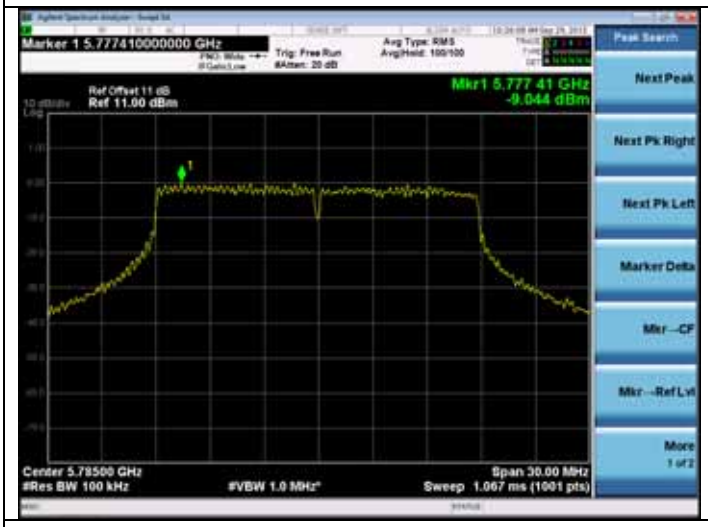
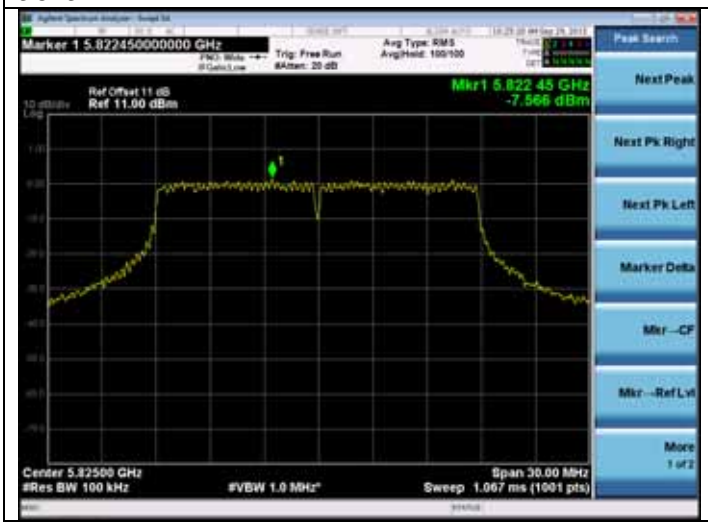
Test Mode	Frequency (MHz)	Power density (dBm/500KHz)			Limit (dBm/500KHz)
		ANT 0	ANT 1	Total	
11a	5745	-1.237	-0.275	2.28	13
	5785	-2.054	-2.300	0.84	13
	5825	-0.576	-1.073	2.19	13
11n HT20	5745	-1.245	-2.233	1.30	13
	5785	-1.944	-2.468	0.81	13
	5825	-2.367	-1.088	1.33	13
11n HT40	5755	-3.467	-3.895	-0.67	13
	5795	-2.899	-3.036	0.04	13
11ac VHT20	5745	-0.730	-2.307	1.56	13
	5785	-1.632	-2.952	0.77	13
	5825	-2.038	-2.255	0.87	13
11ac VHT40	5755	-4.412	-5.071	-1.72	13
	5795	-2.953	-3.234	-0.08	13
11ac VHT80	5775	-9.180	-9.127	-6.14	13
Conclusion: PASS					

Note 1: 11a/ac/n Mode:

Directional Dain= G_{ANT}+ Array Gain

=20dBi+ (10log2)dBi

=23dBi

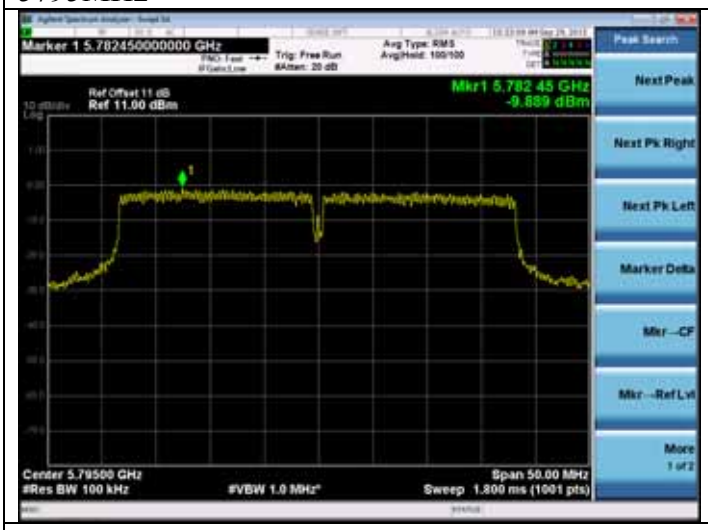
ANT 0	
11a	**11n HT20**
5745MHz	5745MHz
	
5785MHz	5785MHz
	
5825MHz	5825MHz
	

11n HT40

5755MHz

5785MHz

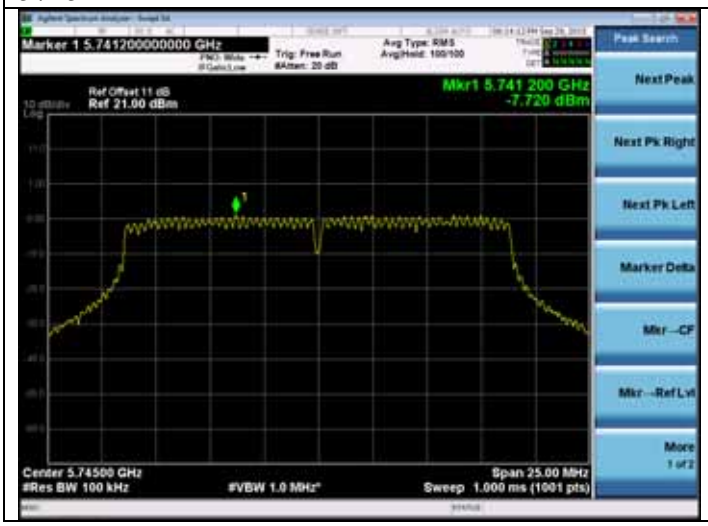
5795MHz



5825MHz

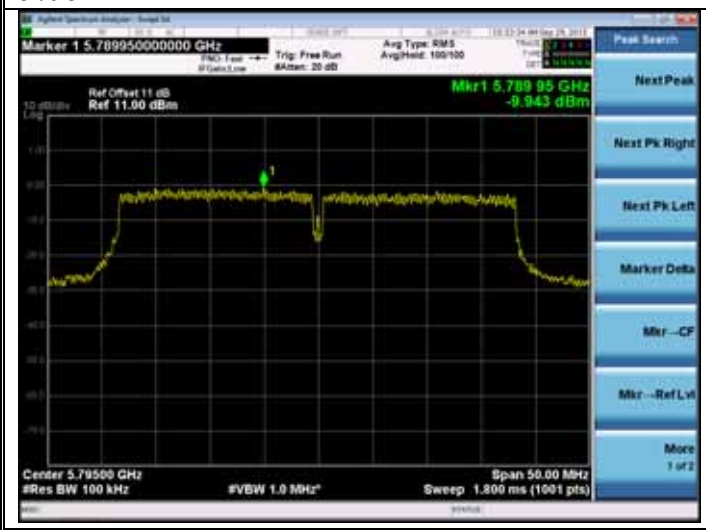
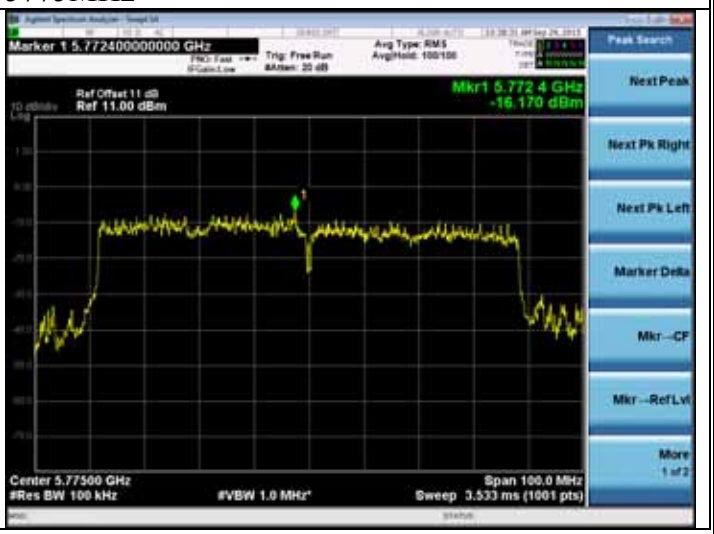
11ac VHT20

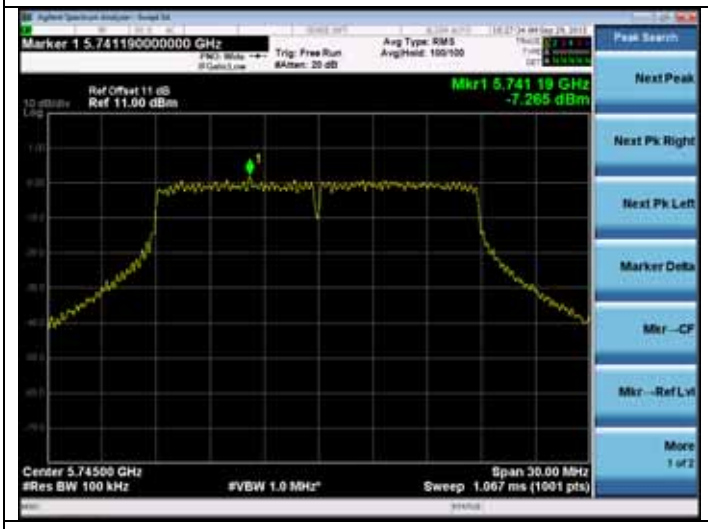
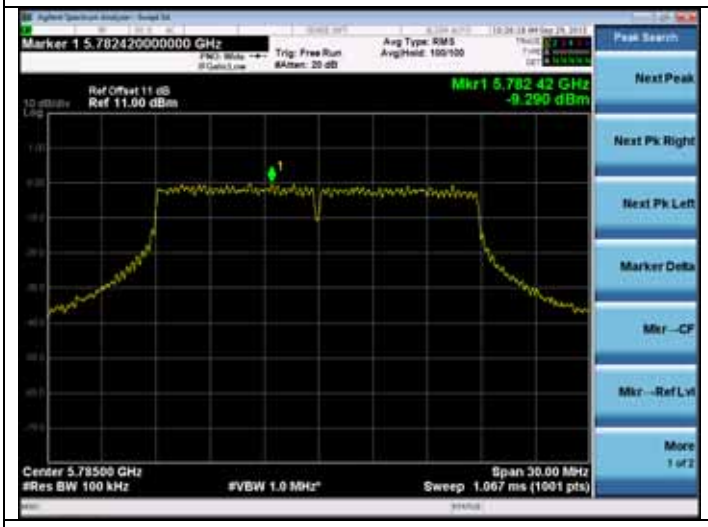
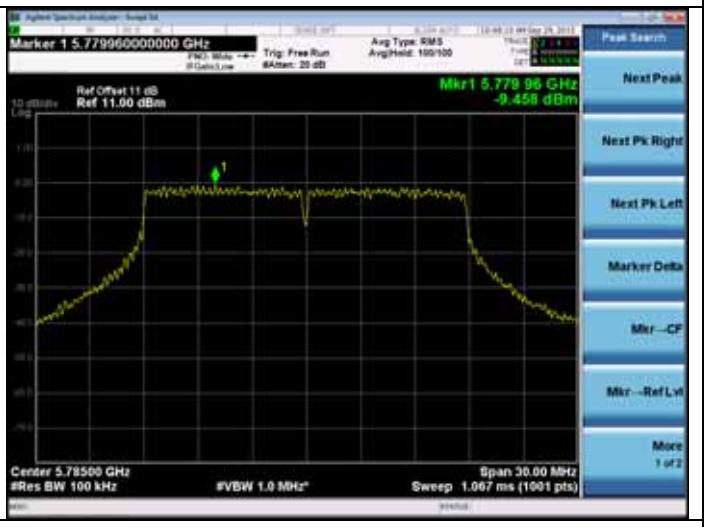
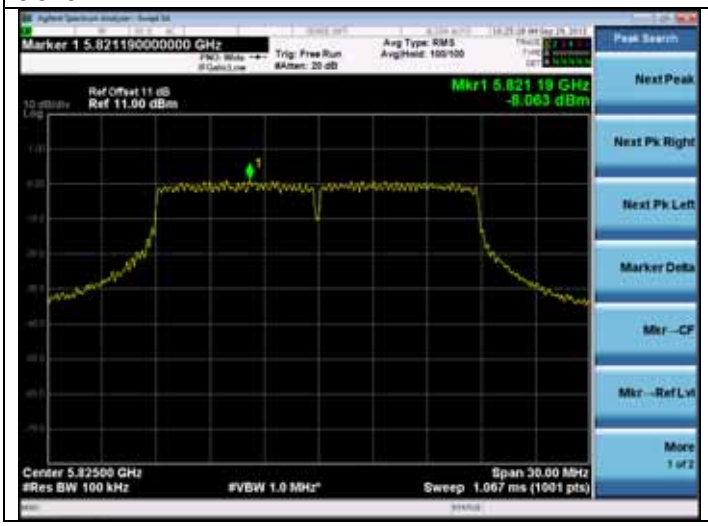
5745MHz



11ac VHT40

5755MHz

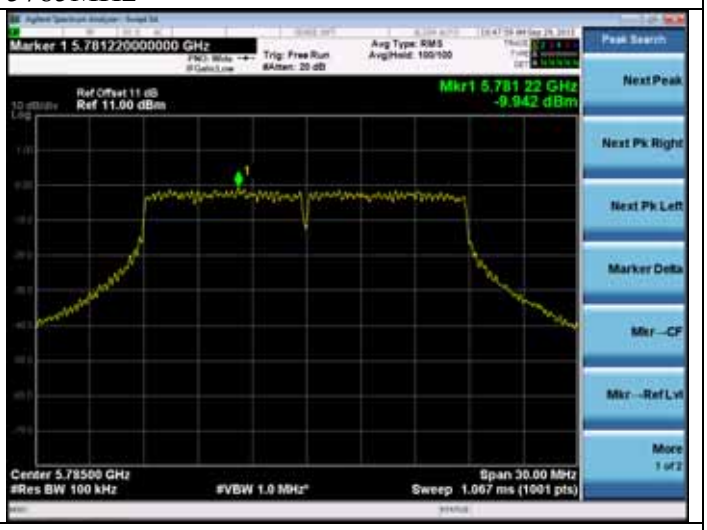
	11ac VHT80
5795MHz	5775MHz
	

ANT 1	
11a	**11n HT20**
5745MHz	5745MHz
	
5785MHz	5785MHz
	
5825MHz	5825MHz
	

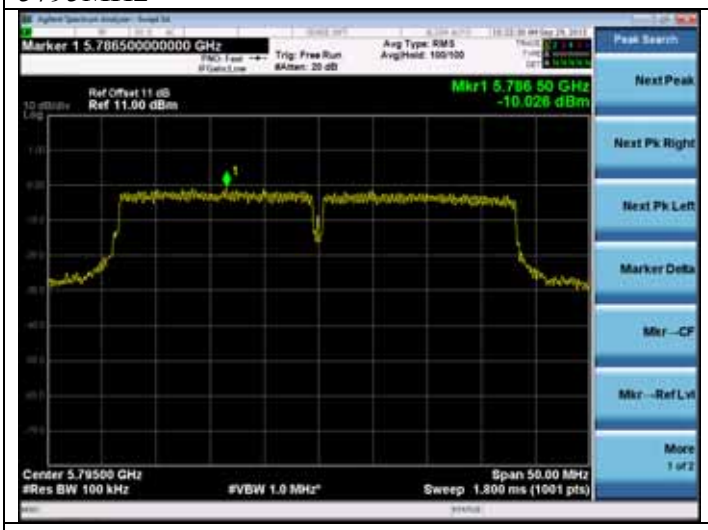
11n HT40

5755MHz

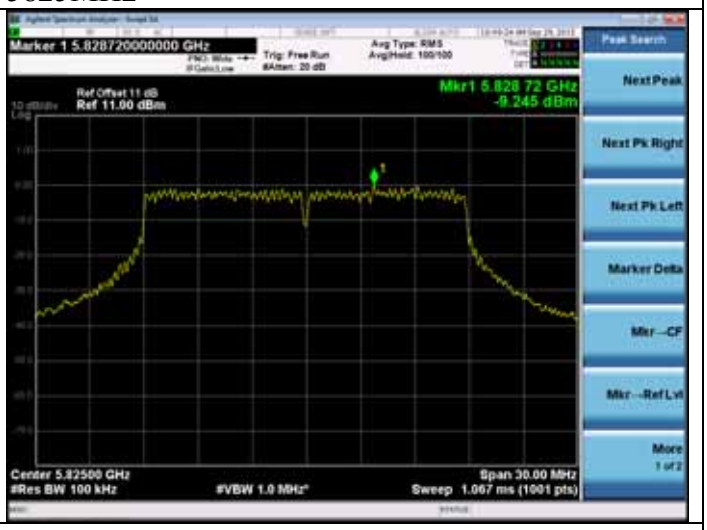
5785MHz



5795MHz

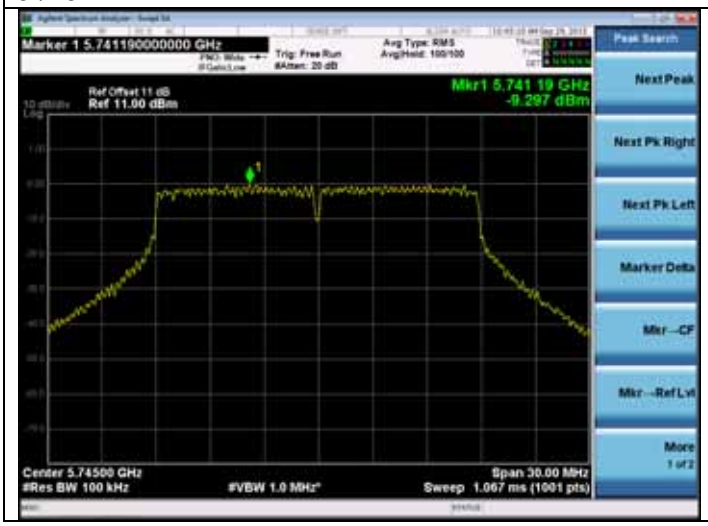


5825MHz



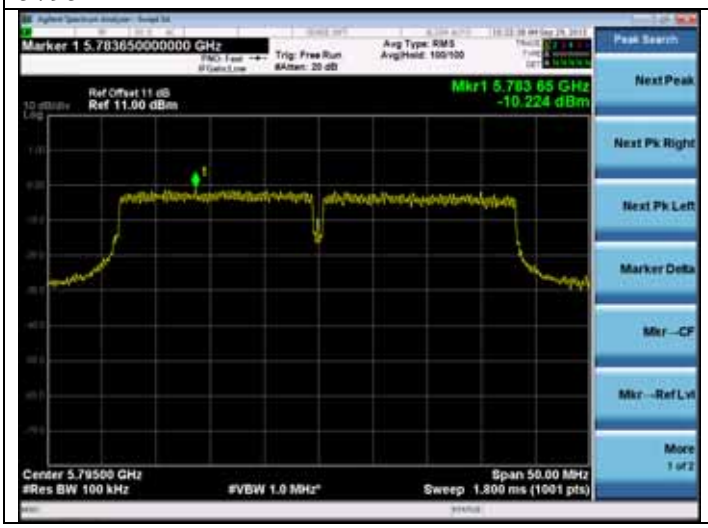
11ac VHT20

5745MHz



11ac VHT40

5755MHz

	11ac VHT80
5795MHz	5775MHz
	

9. MPE ESTIMATION

9.1. 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

9.2. Estimation Result

EUT: Altai A8-Ein (ac) Super WiFi Base Station		
M/N:WA8011NAC		
Test date: 2015-09-29	Pressure: 101.2±1.0 kpa	Humidity: 53.4±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:23.7±0.6 ℃

Test Mode	Frequency（MHz）	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	5745	13.57	22.75	20	100.00	0.4528
	5785	13.79	23.93	20	100.00	0.4764
	5825	13.93	24.72	20	100.00	0.4920
11n HT20	5745	14.15	26.00	20	100.00	0.5175
	5785	14.15	26.00	20	100.00	0.5175
	5825	13.91	24.60	20	100.00	0.4897
11n HT40	5755	14.03	25.29	20	100.00	0.5034
	5795	14.58	28.71	20	100.00	0.5714
11ac VHT20	5745	14.16	26.06	20	100.00	0.5187
	5785	14.03	25.29	20	100.00	0.5034
	5825	14.05	25.41	20	100.00	0.5058
11ac VHT40	5755	14.04	25.35	20	100.00	0.5046
	5795	14.64	29.11	20	100.00	0.5794
11ac VHT80	5775	11.33	13.58	20	100.00	0.2704

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

10. ANTENNA REQUIREMENT

10.1. 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.

10.2. Antenna Connected Construction

The antennas used for this product are Panel 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.

11. DEVIATION TO TEST SPECIFICATIONS

[NONE]