

Date of Issue :July 18, 2016

FCC ID: 2ABMA-888-700-215

Report No: C160630R03-RPW

FCC 47 CFR PART15 SUBPART E

For

Prepared by

Product Name: 17.3inch Tablet

Brand Name: LYNX

Model No.: 850-035453

Series Model.: 850-035488,850-035489,850-035484,850-035490

FCC ID: 2ABMA-888-700-215

Test Report Number: C160630R03-RPW1

Issued for

Lynx Innovation Limited
Unit 8A, 331 Rosedale Road, Albany 0632, North Shore City, New Zealand

Issued by

Compliance Certification Services Inc.

Kun shan Laboratory

No.10 Weiye Rd., Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China

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Revision History

Rev. Issue Date		Report NO.	Effect Page	Contents
00	July 18, 2016	C160630R03-RPW1	ALL	N/A



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1 TEST RESULT CERTIFICATION

Product Name:	17.3inch Tablet
Trade Name:	LYNX
Model Name.:	850-035453
Series Model:	850-035488,850-035489,850-035484,850-035490
Applicant Discrepancy:	Initial
Device Category:	Mobile unit
Date of Test:	July 5, 2016 ~ July 13, 2016
Applicant:	Lynx Innovation Limited Unit 8A, 331 Rosedale Road, Albany 0632, North Shore City, New Zealand
Manufacturer:	Jiaxing Lynx Displays Limited 1F,Bldg#7,No.3288,Zhongshan Xi Road,Xiuzhou Industrial Park,Jiaxing, Zhejiang,China
Application Type:	Certification

APPLICABLE STANDARDS			
STANDARD TEST RESULT			
FCC 47 CFR Part 15 Subpart E	No non-compliance noted		

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.407and KDB 789033.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Jeff fang

Jeff.Fang

RF Manager

Compliance Certification Service Inc.

Tested by:

Lily.Wang

Test Engineer

Compliance Certification Service Inc.



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EUT DESCRIPTION

Product Name:	17.3inch Table	17.3inch Tablet			
Brand Name:	LYNX	LYNX			
Model Name:	850-035453	850-035453			
Series Model:	850-035488,8	850-035488,850-035489,850-035484,850-035490			
Model Discrepancy:	Only for marke	et segment			
Power Adapter:	DC 12V				
	Band	Mode	Frequency Range(MHz)	Number of Channels	
Frequency Range :	Band I UNII-I	IEEE802.11a mode IEEE802.11an HT20 mode IEEE802.11an HT40 mode IEEE802.11ac VHT20 mode IEEE802.11ac VHT40 mode IEEE802.11ac VHT40 mode IEEE802.11ac VHT80 mode	5150 MHz~5250 MHz	4 4 2 4 2	
Transmit Power :	IEEE802.11a mode: 9.91dBm IEEE802.11an HT20 mode: 9.95dBm			·	
Modulation Technique :	IEEE802.11a mode: OFDM (6,9,12,18,24,36,48 and 54 Mbps) IEEE802.11an HT20 mode: OFDM (MCS0~MCS7) IEEE802.11an HT40 mode: OFDM (MCS0~MCS7) IEEE802.11ac VHT20 mode: OFDM (MCS0~MCS7) IEEE802.11ac VHT40 mode: OFDM (MCS0~MCS7) IEEE802.11ac VHT40 mode: OFDM (MCS0~MCS7) IEEE802.11ac VHT80 mode: OFDM (MCS0~MCS7)				
Antenna Specification:	Dipole Antenn	a Gain: 5.0 dBi			

Remark:

- The sample selected for test was engineering sample that approximated to production product 1. and was provided by manufacturer.
- This submittal(s) (test report) is intended for FCC ID: 2ABMA-888-700-215 filing to comply 2. with FCC Part 15, Subpart E Rules.



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3 TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10:2013 and FCC CFR 47 15.207, 15.209 and 15.407.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed for RF field strength measurement to meet the Commissions requirement, and is operated in a manner intended to generate the maximum emission in a continuous normal application.

3.2 EUT EXERCISE

The EUT is operated in the engineering mode to fix the Tx frequency for the purposes of measurement.

According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is positioned at 0.8 m above the ground plane. According to the requirements in Section 13.3 of ANSI C63.10:2013, the conducted emission from the EUT is measured in the frequency range between 0.15 MHz and 30MHz, using the CISPR Quasi-Peak detector mode.

Radiated Emissions

Under 1GHz

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.10:2013.

Above 1GHz

The EUT is placed on a turn table, which is 1.5 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.10:2013.



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3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110 0.495 - 0.505 (1) 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218 6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294 8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293 12.51975 - 12.52025 13.36 - 13.41	16.42 - 16.423 16.69475 - 16.69525 16.80425 - 16.80475 25.50 - 25.67 37.50 - 38.25 73.00 - 74.60 74.80 - 75.20 108.00 - 121.94 123 - 138 149.90 - 150.05 156.52475 - 156.52525 156.70 - 156.90 162.0125 - 167.1700 167.72 - 173.20 240 - 285 322.0- 335.4	399.9 - 410 608 - 614 960.0 - 1240 1300 - 1427 1435.0 - 1626.5 1645.5 - 1646.5 1660 - 1710 1718.8 - 1722.2 2200 - 2300 2310 - 2390 2483.5 - 2500.0 2655 - 2900 3260 - 3267 3332 - 3339 3345.8 - 3358.0 3600 - 4400	4.50 - 5.15 5.35 - 5.46 7.25 - 7.75 8.025 - 8.500 9.0 - 9.2 9.3 - 9.5 10.6 - 12.7 13.25 - 13.4 14.47 - 14.5 15.35 - 16.2 17.7 - 21.4 22.01 - 23.12 23.6 - 24.0 31.2 - 31.8 36.43 - 36.5(²)

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

⁽b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



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3.5 DESCRIPTION OF TEST MODES

Description	Modulation Technology	Modulation Type
26dB Bandwidth and 99% bandwidth	OFDM	BPSK
Maximum conducted output power	OFDM	BPSK
Band edges measurement	OFDM	BPSK
Peak Power Spectral Density	OFDM	BPSK
Radiated undesirable emission	OFDM	BPSK
Powerline conducted emission	OFDM	BPSK

IEEE 802.11a mode:

Channel (5180MHz), Channel (5200MHz) and Channel (5240MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11an HT20 mode:

Channel (5180MHz), Channel (5200MHz) and Channel (5240MHz) with MCS0 data rate were chosen for full testing.

IEEE 802.11an HT40 mode:

Channel (5190MHz) and Channel (5230MHz) with MCS0 data rate were chosen for full testing.

IEEE 802.11ac VHT20 mode:

Channel (5180MHz), Channel (5200MHz) and Channel (5240MHz) with MCS0 data rate were chosen for full testing.

IEEE 802.11ac VHT40 mode:

Channel (5190MHz) and Channel (5230MHz) with MCS0 data rate were chosen for full testing.

IEEE 802.11ac VHT80 mode:

Channel (5210MHz) with MCS0 data rate were chosen for full testing.



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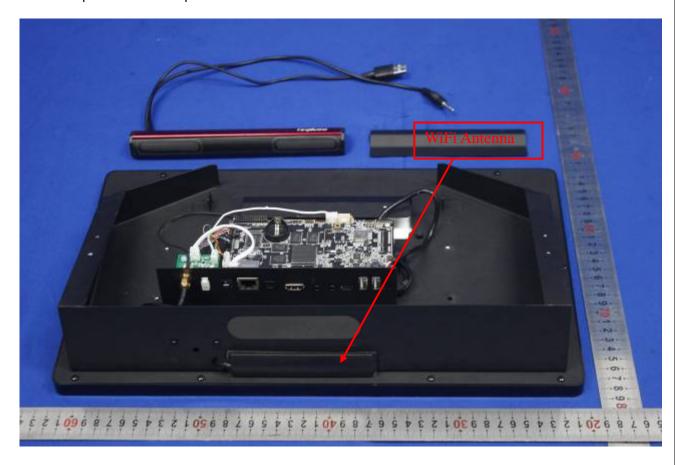
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3.6 ANTENNA DESCRIPTION

an intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached or an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section"

- * the antenna of this EUT is a unique(Dipole Antenna for WiFi and Bluetooth).
- * the EUT complies with the requirement of 15.203.





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4 INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.1 MEASUREMENT EQUIPMENT USED

Conducted Emissions Test Site						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum Analyzer	Agilent	E4446A	MY44020154	2015-9-11	2016-9-10	
Spectrum Analyzer	RS	FSU26	200789	2015-8-10	2016-8-9	
OSCILLOSCOPE	Agilent	DSO6104A	MY44002585	2016-3-2	2017-3-1	
Power meter	Anritsu	ML2495A	1445010	2016-5-16	2017-5-15	
Power sensor	Anritsu	MA2411B	1339220	2016-5-16	2017-5-15	
Power SPLITTER	Mini-Circuits	ZN2PD-9G	SF078500430	N.C.R	N.C.R	
DC Power Supply	AGILENT	E3632A	MY50340053	N.C.R	N.C.R	
Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	2016-5-16	2017-5-15	
Power SPLITTER	Mini-Circuits	ZN2PD-9G	SF078500430	N.C.R	N.C.R	
Temp. / Humidity Gauge	Anymetre	TH603	CCS007	2015-11-4	2016-11-3	

977 Chamber						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum Analyzer	Agilent	E4446A	MY44020154	2015-9-11	2016-9-10	
Spectrum Analyzer	RS	FSU26	200789	2015-8-10	2016-8-9	
EMI Test Receiver	R&S	ESCI	101378	2016-1-6	2017-1-5	
Pre-Amplfier	MINI	ZFL-1000VH2	070306	2016-1-13	2017-1-12	
Pre-Amplfier	Miteq	JS41-00101800-32-10P	1675713	2015-8-10	2016-8-9	
Bilog Antenna	Sunol	JB1	A062604	2016-5-29	2017-5-28	
Bilog Antenna	Sunol	JB1	A110204-1	2016-5-29	2017-5-28	
Loop Antenna	SCHWARZBECK	HXYZ9170	9170-108	2016-4-7	2017-4-6	
Horn-antenna	SCHWARZBECK	9120D	D:266	2016-3-6	2017-3-5	
Horn-antenna	SCHWARZBECK	9120D	D:267	2015-11-10	2016-11-9	
Turn Table	СТ	CT123	4165	N.C.R	N.C.R	
Antenna Tower	СТ	CTERG23	3256	N.C.R	N.C.R	
Controller	СТ	CT100	95637	N.C.R	N.C.R	
_	Test Software					



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Conducted Emission Calibration Calibration Name of Serial Manufacturer Model Number Date Due Equipment EMI TEST R&S **ESCI** 100781 2016-3-2 2017-3-1 **RECEIVER** V (V-LISN) SCHWARZBECK **NNLK 8129** 8129-143 2015-11-2 2016-11-1 LISN (EUT) **FCC** FCC-LISN-50/250-50-2-02 05012 2015-9-16 2016-9-15 Pulse LIMITER R&S ESH3-Z2 100524 2016-1-6 2017-1-5 **Test Software** EZ-EMC

Remark: Each piece of equipment is scheduled for calibration once a year.

4.2 MEASUREMENT UNCERTAINTY

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR 100 028-1 [2] and shall correspond to an expansion factor (coverage factor) k = 1,96 or k = 2 (which provide confidence levels of respectively 95 % and 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Table 6 is based on such expansion factors.

Table 6: Maximum measurement uncertainty

Parameter	<u>UNCERTAINTY</u>
Radio frequency	±0.8 × 10-7
RF power, conducted	0.2054
Maximum frequency deviation:	
-within 300 Hz and 6 kHz of audio frequency	1.3%
-within 6 kHz and 25 kHz of audio frequency	0.65 dB
Adjacent channel power	0.2054
Conducted spurious emission of transmitter, valid up to 6 GHz	0.2892
Conducted emission of receivers	+1.2/-1.1 dB
Radiated emission of transmitter, valid up to 6 GHz	±3.94 dB
Radiated emission of receiver, valid up to 6 GHz	±3.94 dB
RF level uncertainty for a given BER	±0.3 dB
Temperature	0.1979
Humidity	±1 %



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5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at No.10Weiye Rd., Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

The sites are constructed in conformance with the requirements of ANSI C63.10:2013 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 TABLE OF ACCREDITATIONS AND LISTINGS

The test facilities used to perform radiated and conducted emissions tests are accredited by American Association for Laboratory Accreditation Program for the specific scope accreditation under Lab Code: 200581-0 to perform Electromagnetic Interference tests according to FCC Part 15 and CISPR 22 requirements. In addition, the test facilities are listed with Industry Canada, Certification and Engineering Bureau, 2324E-1 for 10m chamber 10m, 2324E-2 for 10m chamber 3m; the test facilities are listed with USA, Certification and Engineering Bureau, 424105 for 10m chamber 10m, 238958 for 10m chamber 3m.



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5.4 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	47 CFR FCC Part 15/18 (using ANSI C63.10 :2013); VCCI V3; CNS 13438; CNS 13439; CNS 13803; CISPR 11; EN 55011; CISPR 13; EN 55013; CISPR 22:2005; CISPR 22:1997 +A1 :2000+A2 :2002; EN 55022:2006; EN55022 :1998 +A1 :2001+A2 :2003; EN 61000-6-3 (excluding discontinuous interference); EN 61000-6-4; AS/NZS CISPR 22; CAN/CSA-CEI/IEC CISPR 22; EN 61000-3-2; EN 61000-3-3; EN550024; EN 61000-4-2; EN 61000-4-3; EN61000-4-4; EN 61000-4-5; EN 61000-4-6; IEC 61000-3-3; IEC 61000-4-2; IEC 61000-4-3; IEC 61000-4-4; IEC 61000-4-5; IEC 61000-4-6; IEC 61000-4-8; IEC 61000-4-11; EN 300 220-3; EN 300 328; EN 300 330-2; EN 300 440-1; EN 300-440-2; EN 300 893; EN 301 489-01; EN 301 489-3; EN 301 489-07; EN 301 489-17; 47 CFR FCC Part 15, 22, 24	ACCREDITED TESTING CERT #2541.01
USA	FCC	3/10 meter Sites to perform FCC Part 15/18 measurements	FC 93105, 90471
Japan	VCCI	3/10 meter Sites and conducted test sites to perform radiated/conducted measurements	VCCI R-1600 C-1707 G-216

^{*} No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.



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6 SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No.	Equipment	Model No.	Serial No.
1	N/A		

Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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7 FCC PART 15 REQUIREMENTS

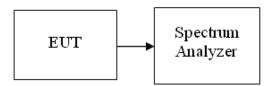
7.1 26 DB EMISSION BANDWIDTH

LIMIT

According to §15.403(i), for purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Compliance with the emissions limits is based on the use of measurement instrumentation employing a peak detector function with an instrument resolutions bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

Test Configuration

TEST PROCEDURE



- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low-loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = approximately 1% of the emission bandwidth, VBW > RBW, Detector = Peak ,Span >26dB bandwidth, and Sweep = auto ,Trace mode = max hold.
- 4. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%..
- 5. Repeat until all the rest channels were investigated.

TEST RESULTS

No non-compliance noted

Test Data

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Test mode: IEEE 802.11a mode

Channel	Frequency (MHz)	Bandwidth (B) (MHz)
Low	5180	21.777
Mid	5200	22.455
High	5240	23.192

Test mode: IEEE 802.11n HT20MHz mode

Channel	Frequency (MHz)	Bandwidth (B) (MHz)
Low	5180	27.210
Mid	5200	27.689
High	5240	24.070

Test mode: IEEE 802.11n HT40MHz mode

Channel	Frequency (MHz)	Bandwidth (B) (MHz)	
Low	5190	48.119	
High	5230	47.390	

Test mode: IEEE 802.11ac VHT20MHz mode

Channel	Frequency (MHz)	Bandwidth (B) (MHz)
Low	5180	26.446
Mid	5200	27.284
High	5240	24.159

Test mode: IEEE 802.11ac VHT40MHz mode

Channel	Frequency (MHz)	Bandwidth (B) (MHz)	
Low	5190	49.980	
High	5230	47.088	

Test mode: IEEE 802.11ac VHT80MHz mode

Channel	Frequency (MHz)	Bandwidth (B) (MHz)	
Mid	5210	89.696	



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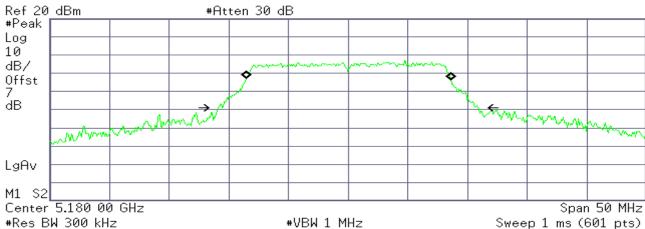
Test Plot

IEEE 802.11a mode:

CH Low



R T

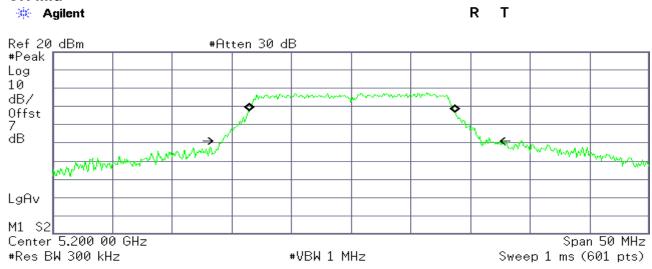


Occupied Bandwidth 17.0996 MHz Occ BW % Pwr 99.00 % **x dB** -26.00 dB

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Transmit Freq Error 54.889 kHz x dB Bandwidth 21.777 MHz

CH Mid



Occupied Bandwidth 17.1561 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

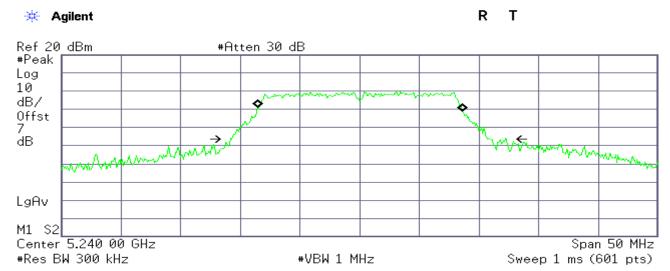
Transmit Freq Error 109.302 kHz x dB Bandwidth 22.455 MHz

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CH High



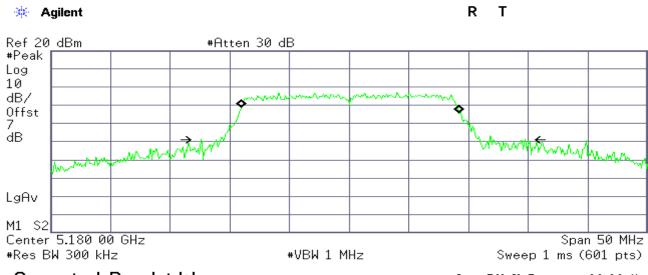
Occupied Bandwidth 17.1039 MHz Occ BW % Pwr 99.00 % **x dB** -26.00 dB

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Transmit Freq Error 61.860 kHz x dB Bandwidth 23.192 MHz

IEEE 802.11n HT20 mode

CH Low



Occupied Bandwidth 18.1725 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error 112.371 kHz x dB Bandwidth 27.210 MHz

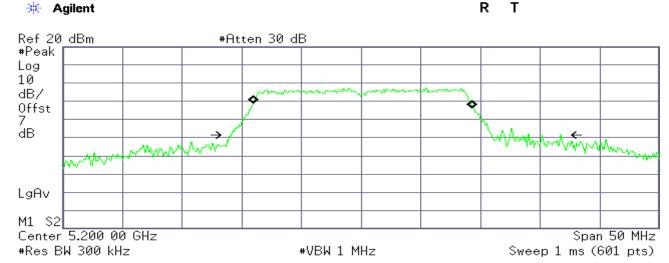
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CH Mid

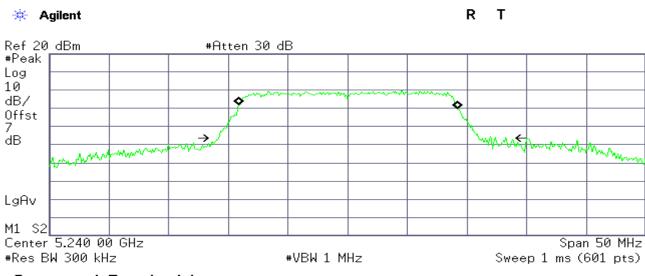


Occupied Bandwidth 18.2673 MHz

Occ BW % Pwr 99.00 % **x dB** -26.00 dB

Transmit Freq Error 131.326 kHz x dB Bandwidth 27.689 MHz

CH High



Occupied Bandwidth 18.2258 MHz Occ BW % Pwr 99.00 % **x dB** −26.00 dB

Transmit Freq Error 59.654 kHz x dB Bandwidth 24.070 MHz

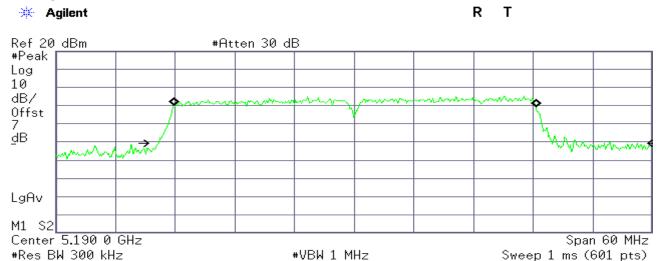


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FCC ID: 2ABMA-888-700-215

IEEE 802.11n HT40 mode

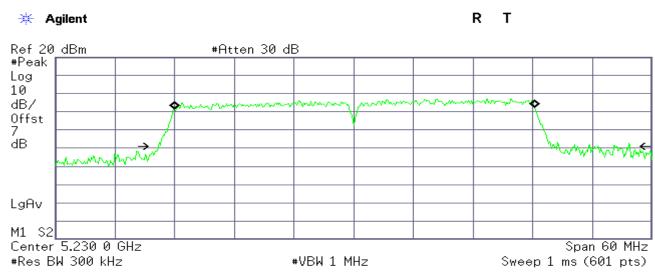




Occupied Bandwidth 36.3219 MHz Occ BW % Pwr 99.00 % **x dB** -26.00 dB

Transmit Freq Error 94.827 kHz x dB Bandwidth 48.119 MHz

CH High



Occupied Bandwidth 36.1964 MHz Occ BW % Pwr 99.00 % **x dB** -26.00 dB

Transmit Freq Error 115.488 kHz x dB Bandwidth 47.390 MHz

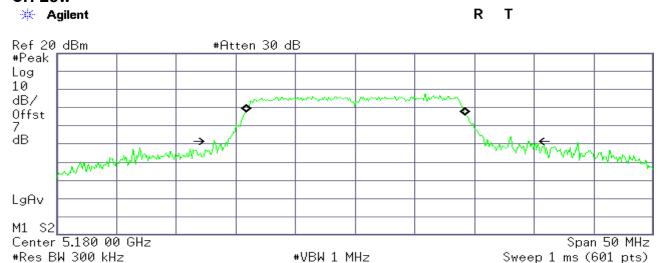
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IEEE 802.11ac VHT20 mode

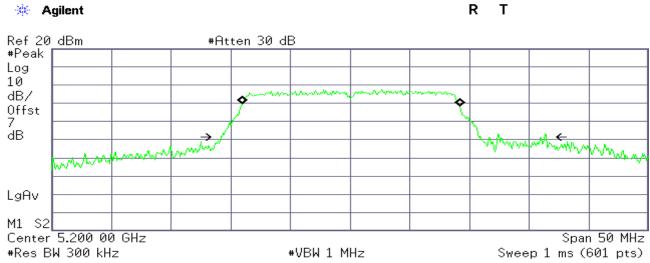




Occupied Bandwidth 18.2294 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error 46.172 kHz x dB Bandwidth 26.446 MHz

CH Mid



Occupied Bandwidth 18.1573 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

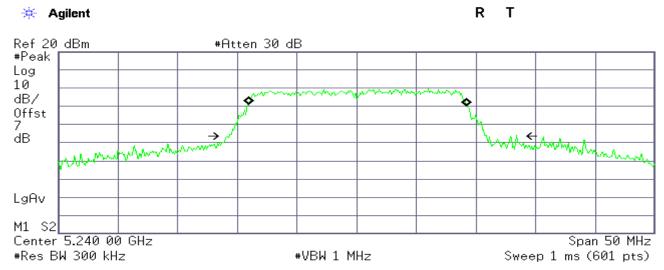
Transmit Freq Error 66.244 kHz x dB Bandwidth 27.284 MHz

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CH High



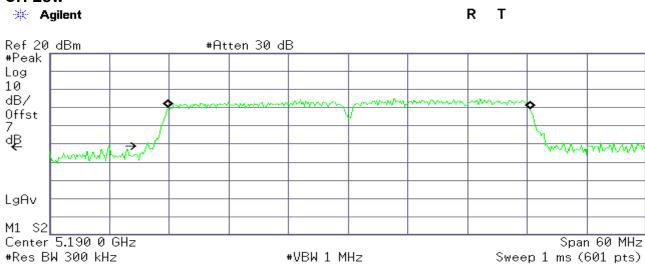
Occupied Bandwidth 18.2432 MHz Occ BW % Pwr 99.00 % **x dB** -26.00 dB

Report No: C160630R03-RPW1

Transmit Freq Error 81.500 kHz x dB Bandwidth 24.159 MHz

IEEE 802.11ac VHT40 mode

CH Low



Occupied Bandwidth 36.3236 MHz Occ BW % Pwr 99.00 % **x dB** -26.00 dB

Transmit Freq Error 99.919 kHz x dB Bandwidth 49.980 MHz

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CH High

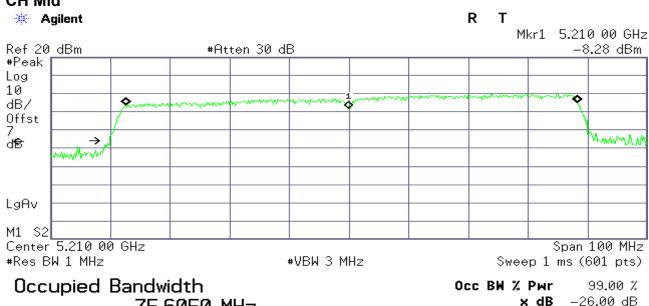


Occupied Bandwidth 36.2516 MHz Occ BW % Pwr 99.00 % **x dB** -26.00 dB

Transmit Freq Error 122.441 kHz x dB Bandwidth 47.088 MHz

IEEE 802.11ac VHT80 mode

CH Mid



Transmit Freq Error 429.611 kHz x dB Bandwidth 89.696 MHz

75.6050 MHz

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7.2 MAXIMUM CONDUCTED OUTPUT POWER

LIMIT

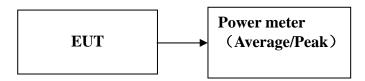
According to §15.407(a),

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

If transmitting antennas of directional gain greater than 6dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

The peak power shall not exceed the limit as follow:

Test Configuration



The EUT was connected to a spectrum analyzer through a 50Ω RF cable.

TEST PROCEDURE

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

Method PM (Measurement using an RF average power meter):

- 1. Measurement is performed using a wideband RF power meter.
- 2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
- 3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

TEST RESULTS

No non-compliance noted

TEST RESULTS

No non-compliance noted



FCC ID: 2ABMA-888-700-215

Test Data

Test mode: IEEE 802.11a mode

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
Low	5180	9.91	24.00
Mid	5200	9.87	24.00
High	5240	9.85	24.00

Test mode: IEEE 802.11n HT20MHz mode

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
Low	5180	9.87	24.00
Mid	5200	9.81	24.00
High	5240	9.95	24.00

Test mode: IEEE 802.11n HT40MHz mode

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
Low	5190	10.12	24.00
High	5230	10.27	24.00

Test mode: IEEE 802.11ac VHT20MHz mode

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
Low	5180	9.92	24.00
Mid	5200	9.95	24.00
High	5240	9.89	24.00

Test mode: IEEE 802.11ac VHT40MHz mode

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
Low	5190	10.15	24.00
High	5230	10.36	24.00

Test mode: IEEE 802.11ac VHT80MHz mode

5150~5250MHz

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
Mid	5210	9.82	24.00

Note: Duty factor has been offseted with cableloss



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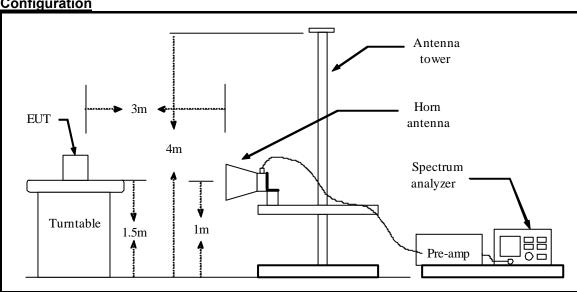
7.3 BAND EDGES MEASUREMENT

LIMIT

According to §15.407(b),

- (1) The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.
- (2) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

Test Configuration



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 1.5m above the ground plane.
- 2. The turntable shall be 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=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

TEST RESULTS

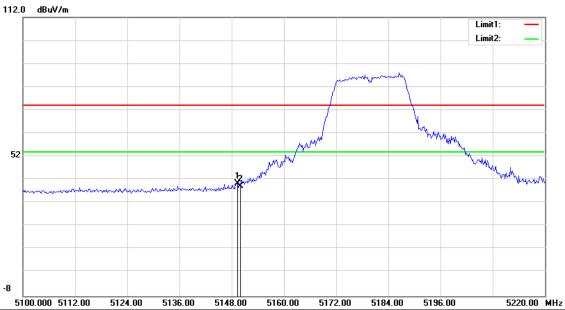
Refer to attach spectrum analyzer data chart.



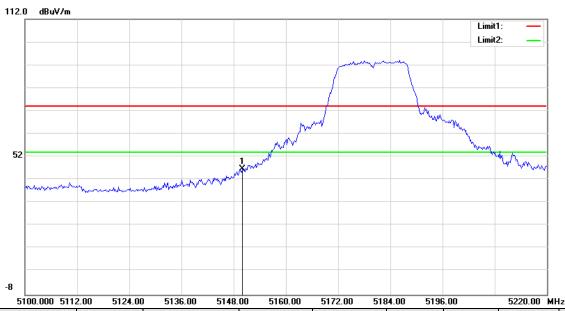
FCC ID: 2ABMA-888-700-215

Band Edges (IEEE 802.11a mode)

Polarity: Vertical



1	No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
		(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
	1	5149.423	43.17	-2.76	40.41	74.00	-33.59	100	281	peak
	2	5150.000	42.08	-2.76	39.32	74.00	-34.68	100	234	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5150.000	49.37	-2.76	46.61	74.00	-27.39	100	229	peak

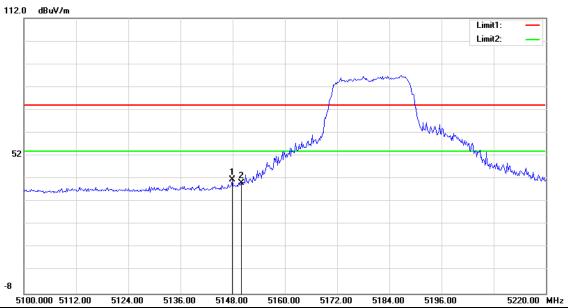


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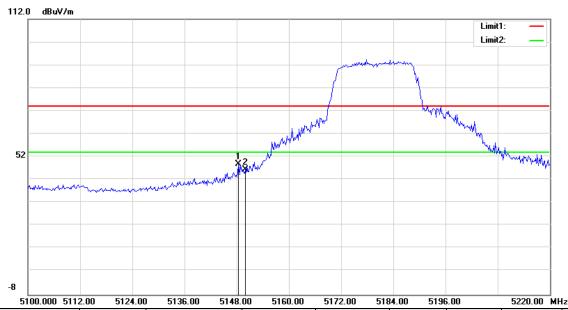
FCC ID: 2ABMA-888-700-215

Band Edges (IEEE 802.11n HT20 mode)

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5147.885	44.39	-2.76	41.63	74.00	-32.37	100	106	peak
2	5150.000	42.94	-2.76	40.18	74.00	-33.82	100	130	peak



	No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
Ī		(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
Ī	1	5148.462	51.49	-2.76	48.73	74.00	-25.27	100	120	peak
	2	5150.000	49.09	-2.76	46.33	74.00	-27.67	100	135	peak

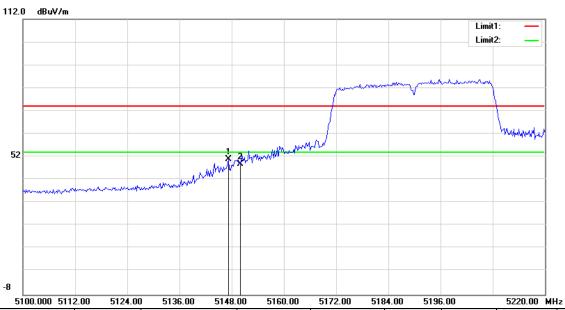


Compliance Certification Services Inc. Date of Issue: July 18, 2016 Report No: C160630R03-RPW

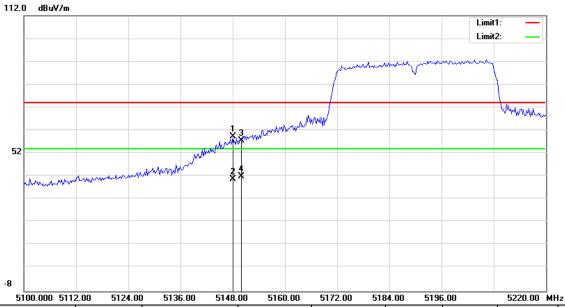
FCC ID: 2ABMA-888-700-215

Band Edges (IEEE 802.11n HT40 mode)

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5147.308	53.68	-2.76	50.92	74.00	-23.08	100	134	peak
2	5150.000	51.75	-2.76	48.99	74.00	-25.01	100	128	peak



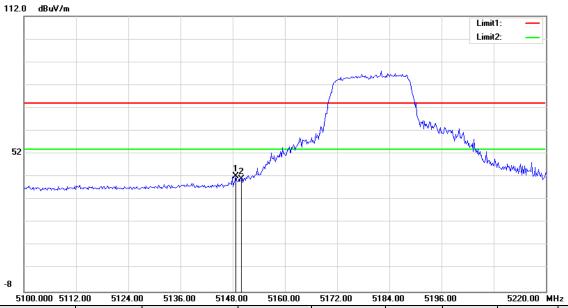
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5148.077	61.99	-2.76	59.23	74.00	-14.77	100	137	peak
2	5148.077	43.58	-2.76	40.82	54.00	-13.18	100	135	AVG
3	5150.000	60.36	-2.76	57.60	74.00	-16.40	100	141	peak
4	5150.000	44.72	-2.76	41.96	54.00	-12.04	100	141	AVG



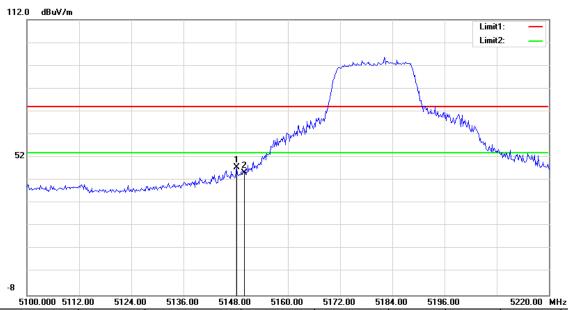
FCC ID: 2ABMA-888-700-215

Band Edges (IEEE 802.11ac VHT20 mode)

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5148.654	45.14	-2.76	42.38	74.00	-31.62	100	139	peak
2	5150.000	43.75	-2.76	40.99	74.00	-33.01	100	244	peak



N	Ю.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
		(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
	1	5148.269	50.28	-2.76	47.52	74.00	-26.48	100	139	peak
	2	5150.000	48.03	-2.76	45.27	74.00	-28.73	100	137	peak

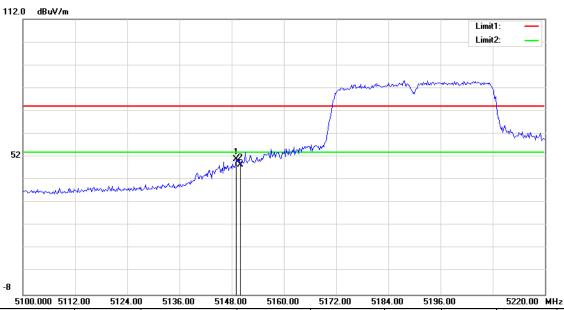


Compliance Certification Services Inc. Date of Issue :July 18, 2016 Report No: C160630R03-RPW:

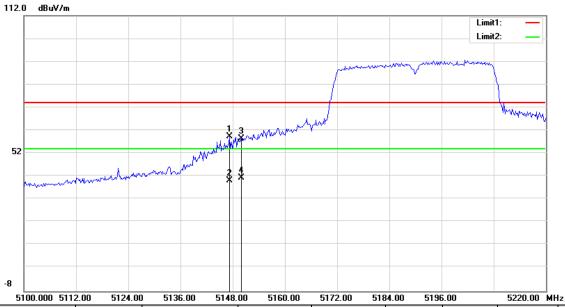
FCC ID: 2ABMA-888-700-215

Band Edges (IEEE 802.11ac VHT40 mode)

Polarity: Vertical



									_
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5149.038	53.79	-2.76	51.03	74.00	-22.97	100	84	peak
2	5150.000	51.20	-2.76	48.44	74.00	-25.56	100	135	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5147.308	62.14	-2.76	59.38	74.00	-14.62	100	133	peak
2	5147.308	42.93	-2.76	40.17	54.00	-13.83	100	133	AVG
3	5150.000	61.23	-2.76	58.47	74.00	-15.53	100	226	peak
4	5150.000	44.04	-2.76	41.28	54.00	-12.72	100	226	AVG

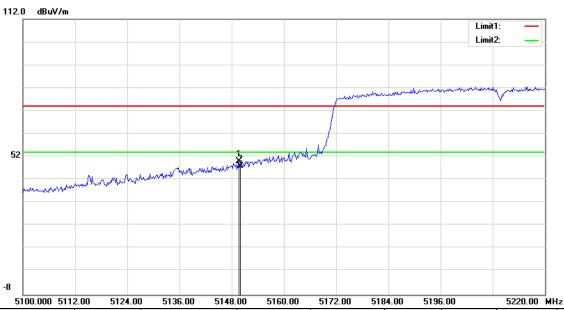


Compliance Certification Services Inc. Date of Issue: July 18, 2016 Report No: C160630R03-RPW

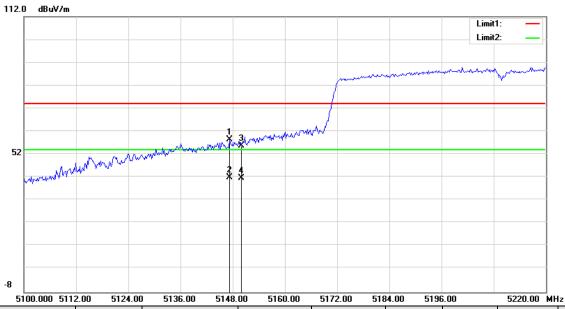
FCC ID: 2ABMA-888-700-215

Band Edges (IEEE 802.11ac VHT80 mode)

Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5149.615	52.81	-2.76	50.05	74.00	-23.95	100	137	peak
2	5150.000	50.62	-2.76	47.86	74.00	-26.14	100	136	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	5147.308	61.35	-2.76	58.59	74.00	-15.41	100	136	peak
2	5147.308	44.82	-2.76	42.06	54.00	-11.94	100	136	AVG
3	5150.000	58.66	-2.76	55.90	74.00	-18.10	100	134	peak
4	5150.000	44.31	-2.76	41.55	54.00	-12.45	100	134	AVG



Date of Issue :July 18, 2016

FCC ID: 2ABMA-888-700-215

Report No: C160630R03-RPW1

7.4 MAXIMUM POWER SPECTRAL DENSITY

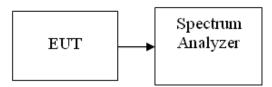
LIMIT

According to §15.407(a),

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

If transmitting antennas of directional gain greater than 6dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Test Configuration



TEST PROCEDURE

- Place the EUT on the table and set it in transmitting mode.
 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span must be greater than 26dB bandwidth, adjust as necessary, Sweep= auto, Detector RMS
- 3. Record the max. reading.

TEST RESULTS

No non-compliance noted

Test Data



Report No: C160630R03-RPW1

FCC ID: 2ABMA-888-700-215

Test mode: IEEE 802.11a mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	5180	-0.53	11.00	PASS
Mid	5200	0.95	11.00	PASS
High	5240	2.13	11.00	PASS

Test mode: IEEE 802.11n HT20MHz mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	5180	-1.00	11.00	PASS
Mid	5200	0.32	11.00	PASS
High	5240	1.86	11.00	PASS

Test mode: IEEE 802.11n HT40MHz mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	5190	-3.03	11.00	PASS
High	5230	-0.44	11.00	PASS

Test mode: IEEE 802.11ac VHT20MHz mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	5180	-0.81	11.00	PASS
Mid	5200	-0.10	11.00	PASS
High	5240	3.48	11.00	PASS

Test mode: IEEE 802.11ac VHT40MHz mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	5190	-2.78	11.00	PASS
High	5230	0.91	11.00	PASS

Test mode: IEEE 802.11ac VHT80MHz mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Mid	5210	-3.89	11.00	PASS

Note: Duty factor has been offseted with cableloss

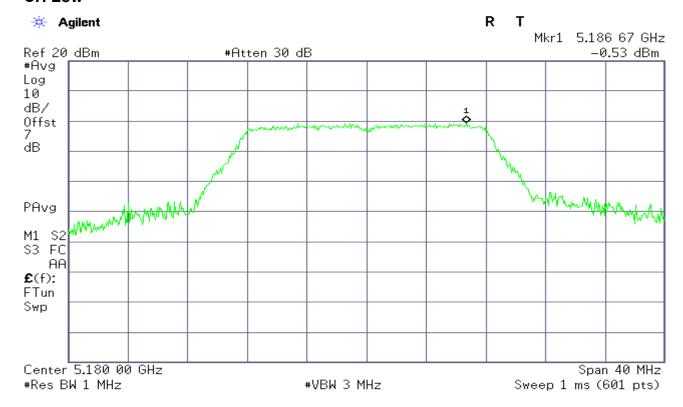


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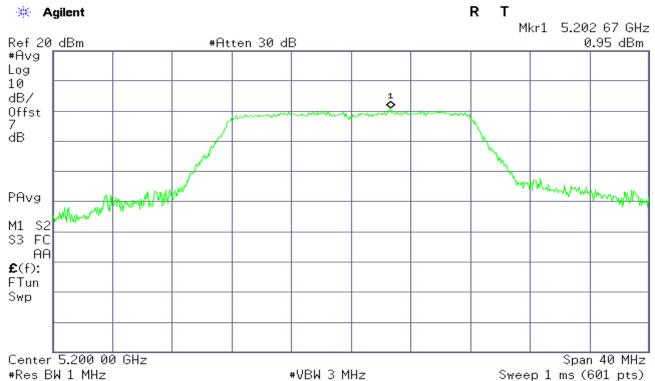
FCC ID: 2ABMA-888-700-215

Test Plot IEEE 802.11a mode:

CH Low









Report No: C160630R03-RPW1

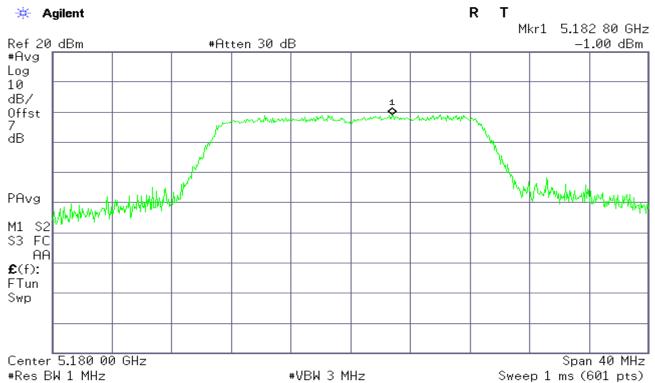
FCC ID: 2ABMA-888-700-215

CH High



IEEE 802.11n HT20 mode

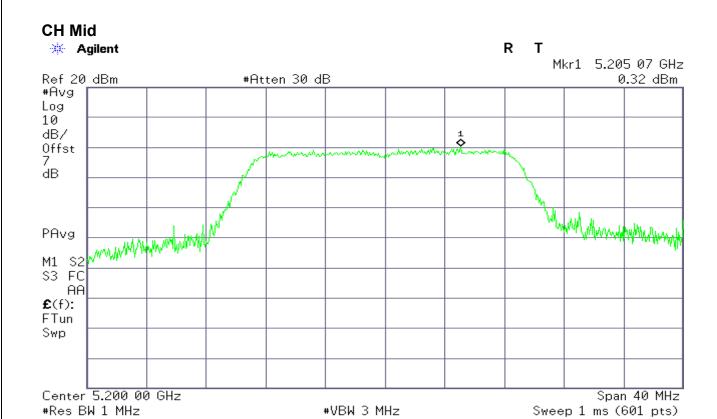
CH Low



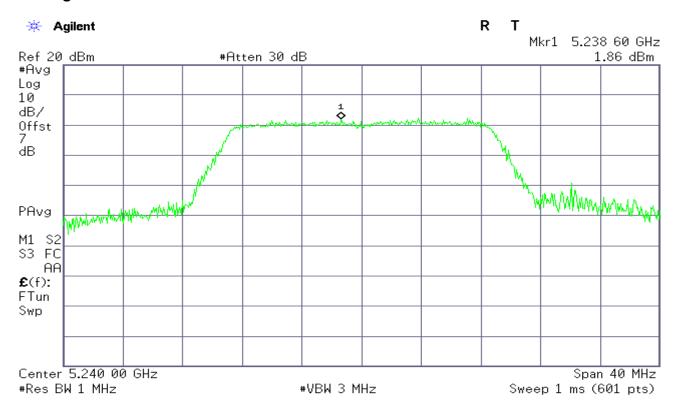


FCC ID: 2ABMA-888-700-215

Report No: C160630R03-RPW1



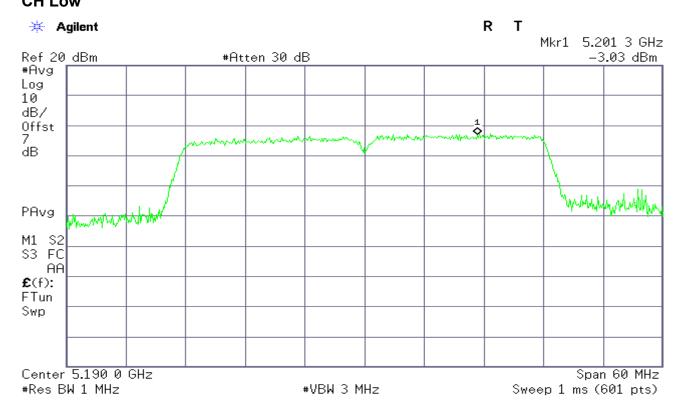
CH High



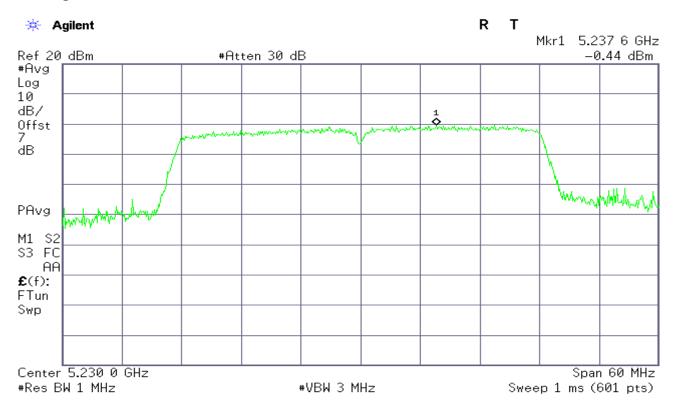


FCC ID: 2ABMA-888-700-215

IEEE 802.11n HT40 mode



CH High



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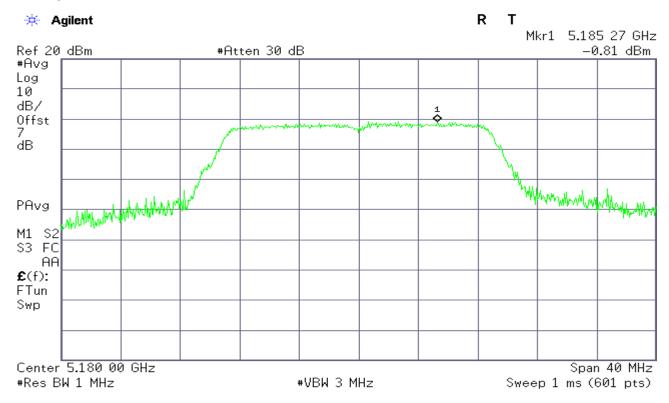
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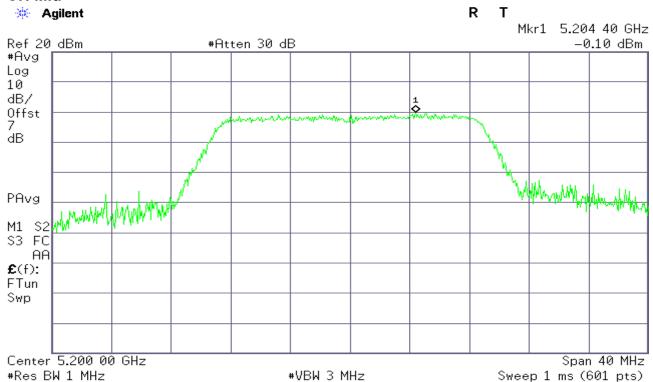
FCC ID: 2ABMA-888-700-215

IEEE 802.11ac VHT20 mode

CH Low





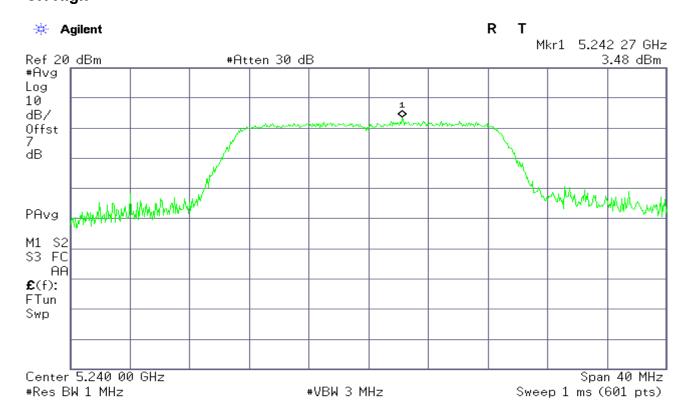




Report No: C160630R03-RPW1

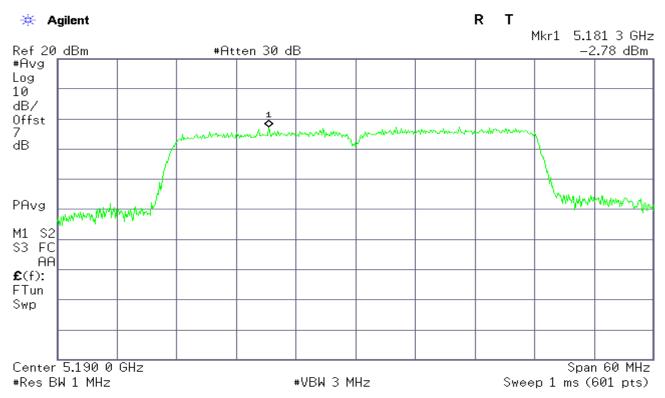
FCC ID: 2ABMA-888-700-215

CH High



IEEE 802.11ac VHT40 mode

CH Low

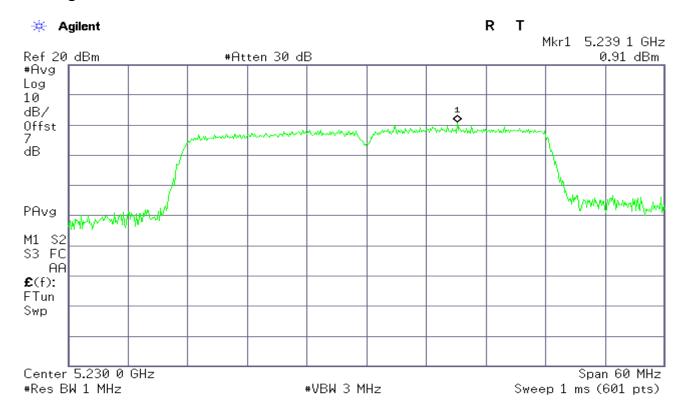




Compliance Certification Services Inc. Report No: C160630R03-RPW1

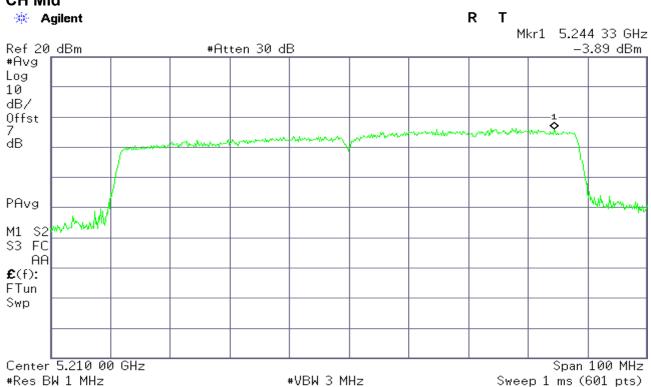
FCC ID: 2ABMA-888-700-215

CH High



IEEE 802.11ac VHT80 mode

CH Mid





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FCC ID: 2ABMA-888-700-215

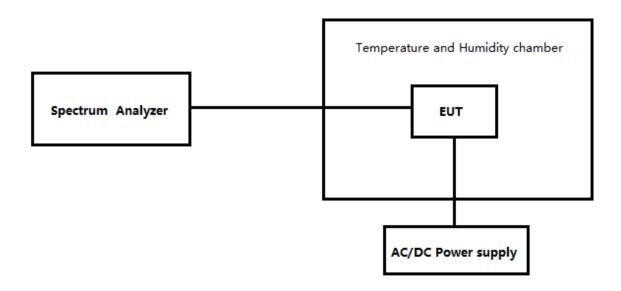
Report No: C160630R03-RPW1

7.5 FREQUENCY STABILITY MEASUREMENT

LIMIT

According to §15.407(g), Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

TEST CONFIGURATION



TEST PROCEDURE

- 1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- 2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
- 3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.



TEST RESULTS

U-NII-1-(5150MHz-5250MHz)							
Freq.(MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)		
5180	5180.000	0.000	0.00	25	V_{min}		
5180	5180.000	0.000	0.00	25	V_{max}		
5180	5180.000	0.000	0.00	25	V_{nor}		
5180	5179.993	-0.007	-1.35	-10	V_{nor}		
5180	5180.000	0.000	0.00	45	V_{nor}		



Compliance Certification Services Inc. Report No: C160630R03-RPW1

FCC ID: 2ABMA-888-700-215

7.6 RADIATED UNDESIRABLE EMISSION

LIMIT

Radiated emissions from 9 kHz to 25 GHz were measured according to the methods defines in ANSI C63.10-2013. The EUT was placed above the ground plane, 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

1. For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- 2. KDB789033 v01 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.
- 3. According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

FREQUENCIES(MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

4. In the emission table above, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54



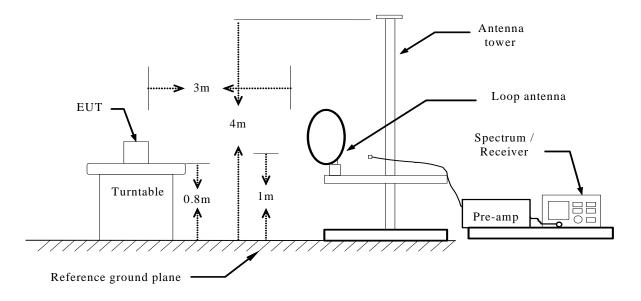
Date of Issue :July 18, 2016

FCC ID: 2ABMA-888-700-215

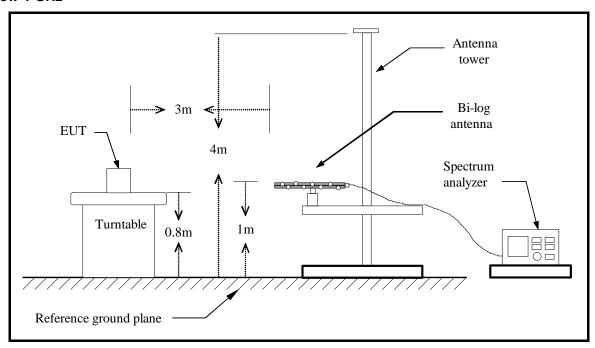
Report No: C160630R03-RPW1

Test Configuration

Below 30MHz



Below 1 GHz

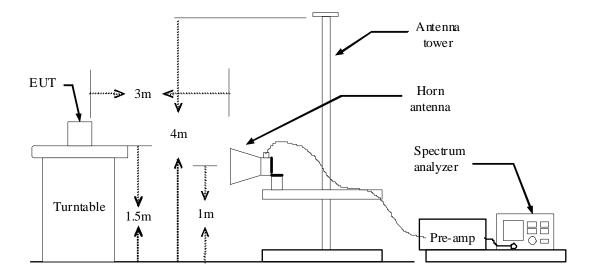




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Above 1 GHz



TEST PROCEDURE

- 1. The EUT is placed on a turntable above ground plane, which is 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz.
- 2. The turntable shall be 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 emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.



Report No: C160630R03-RPW1

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TEST RESULTS

Test Result of Radiated Emission

Below 30MHz

The interference of the frequency value is lower than the limit below 20 db, measured as the background noise values and will not be recorded.

30MHz-1GHz

Operation Mode:	Normal Link	Test Date:	2016-7-11
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	48% RH	Polarity:	Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
35.9800	V	18.99	17.55	36.54	40.00	-3.46	QP
500.4500	V	22.49	18.87	41.36	46.00	-4.64	peak
625.5800	V	20.23	20.50	40.73	46.00	-5.27	peak
806.9700	V	16.71	22.93	39.64	46.00	-6.36	peak
875.0080	V	20.54	23.55	44.09	46.00	-1.91	QP
960.0480	٧	27.38	24.92	52.30	54.00	-1.70	QP
276.3800	Н	23.04	14.05	37.09	46.00	-8.91	peak
375.3200	I	22.29	16.35	38.64	46.00	-7.36	peak
500.4500	Η	23.81	18.87	42.68	46.00	-3.32	peak
806.9700	Н	19.81	22.93	42.74	46.00	-3.26	peak
876.1320	Н	6.20	23.56	29.76	46.00	-16.24	QP
960.2300	Н	22.65	24.92	47.57	54.00	-6.43	peak

Remark:

- 1. Measuring frequencies from 30 MHz to the 1GHz.(no emission found from the lowest internal used/generated frequency to 30MHz)
- 2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
- 3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Margin (dB) = Remark result (dBuV/m) Quasi-peak limit (dBuV/m).



Above 1 GHz

Operation Mode:	Tx / IEEE 802.11a mode CH Low	Test Date:	2016-7-10
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10235.577	39.34	6.16	45.50	74.00	-28.50	100	327	peak
2	13913.461	38.23	6.71	44.94	74.00	-29.06	100	266	peak
N/A									

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10262.820	40.25	6.14	46.39	74.00	-27.61	100	272	peak
2	13886.218	37.99	6.80	44.79	74.00	-29.21	100	60	peak
N/A									

Operation Mode:	Tx / IEEE 802.11a mode CH Mid	Test Date:	2016-7-10
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10589.744	40.17	5.87	46.04	74.00	-27.96	100	49	peak
2	14758.013	37.82	6.21	44.03	74.00	-29.97	100	172	peak
N/A									

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10371.795	39.67	6.05	45.72	74.00	-28.28	100	360	peak
2	13940.705	37.68	6.61	44.29	74.00	-29.71	100	19	peak
N/A									



Compliance Certification Services Inc. Date of Issue :July 18, 2016 FCC ID: 2ABMA-888-700-215 Report No: C160630R03-RPW1 Report No: C160630R03-RPW1

Operation Mode:	Tx / IEEE 802.11a mode CH High	Test Date:	2016-7-10
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal

No	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10753.205	38.89	5.73	44.62	74.00	-29.38	100	151	peak
2	14213.141	37.29	6.35	43.64	74.00	-30.36	100	301	peak
N/A									

Vertical

No	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10943.910	39.01	5.58	44.59	74.00	-29.41	100	251	peak
2	14431.090	37.97	6.29	44.26	74.00	-29.74	100	281	peak
N/A									

Operation Mode:	TX / IEEE 802.11n HT20 mode /CH Low	Test Date:	2016-7-10
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10916.667	39.12	5.60	44.72	74.00	-29.28	100	37	peak
2	13913.461	38.49	6.71	45.20	74.00	-28.80	100	288	peak
N/A									

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10753.205	39.20	5.73	44.93	74.00	-29.07	100	62	peak
2	14185.897	37.50	6.36	43.86	74.00	-30.14	100	181	peak
N/A									



Compliance Certification Services Inc. Date of Issue: July 18, 2016 Report No: C160630R03-RPW

FCC ID: 2ABMA-888-700-215

Report No: C160630R03-RPW1

Operation Mode:	TX / IEEE 802.11n HT20 mode /CH Mid	Test Date:	2016-7-10
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10671.474	39.55	5.80	45.35	74.00	-28.65	100	139	peak
2	13886.218	38.93	6.80	45.73	74.00	-28.27	100	186	peak
N/A									

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10834.936	38.96	5.67	44.63	74.00	-29.37	100	255	peak
2	14839.744	38.88	6.18	45.06	74.00	-28.94	100	294	peak
N/A									

Operation Mode:	TX / IEEE 802.11n HT20 mode /CH High	Test Date:	2016-7-10
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10753.205	40.60	5.73	46.33	74.00	-27.67	100	32	peak
2	14431.090	38.06	6.29	44.35	74.00	-29.65	100	203	peak
N/A									

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10589.744	39.82	5.87	45.69	74.00	-28.31	100	274	peak
2	14812.500	38.51	6.19	44.70	74.00	-29.30	100	22	peak
N/A									



Report No: C160630R03-RPW1

Operation Mode:	TX / IEEE 802.11n HT40 mode /CH Low	Test Date:	2016-7-10
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10644.231	41.12	5.83	46.95	74.00	-27.05	100	70	peak
2	13777.244	39.27	7.17	46.44	74.00	-27.56	100	79	peak
N/A									

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	11025.641	39.48	5.47	44.95	74.00	-29.05	100	246	peak
2	14785.256	37.95	6.20	44.15	74.00	-29.85	100	70	peak
N/A									

Operation Mode:	TX / IEEE 802.11n HT40 mode /CH High	Test Date:	2016-7-10
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10889.423	38.28	5.62	43.90	74.00	-30.10	100	154	peak
2	14022.436	37.67	6.40	44.07	74.00	-29.93	100	32	peak
N/A									

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10780.449	38.88	5.71	44.59	74.00	-29.41	100	5	peak
2	14866.987	38.66	6.18	44.84	74.00	-29.16	100	57	peak
N/A									



Report No: C160630R03-RPW1

Operation Mode:	TX / IEEE 802.11ac VHT20 mode /CH Low	Test Date:	2016-7-10
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10616.987	39.60	5.85	45.45	74.00	-28.55	100	355	peak
2	14403.846	37.36	6.30	43.66	74.00	-30.34	100	99	peak
N/A									

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10371.795	40.08	6.05	46.13	74.00	-27.87	100	57	peak
2	14621.795	37.02	6.24	43.26	74.00	-30.74	100	291	peak
N/A									

Operation Mode:	TX / IEEE 802.11ac VHT20 mode /CH Mid	Test Date:	2016-7-10
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10508.013	40.64	5.94	46.58	74.00	-27.42	100	292	peak
2	13858.974	38.46	6.89	45.35	74.00	-28.65	100	21	peak
N/A									

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10616.987	39.66	5.85	45.51	74.00	-28.49	100	231	peak
2	13477.564	37.47	8.20	45.67	74.00	-28.33	100	284	peak
N/A									



Report No: C160630R03-RPW1

Operation Mode:	TX / IEEE 802.11ac VHT20 mode /CH High	Test Date:	2016-7-10
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10480.769	40.20	5.96	46.16	74.00	-27.84	100	185	peak
2	13804.487	37.80	7.08	44.88	74.00	-29.12	100	208	peak
N/A									

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10807.692	39.13	5.69	44.82	74.00	-29.18	100	84	peak
2	14812.500	39.10	6.19	45.29	74.00	-28.71	100	7	peak
N/A									

Operation Mode:	TX / IEEE 802.11ac VHT40 mode /CH Low	Test Date:	2016-7-10
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal

					-				
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	11107.372	39.51	5.26	44.77	74.00	-29.23	100	3	peak
2	14839.744	38.36	6.18	44.54	74.00	-29.46	100	327	peak
N/A									

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10535.256	39.89	5.92	45.81	74.00	-28.19	100	50	peak
2	14812.500	38.58	6.19	44.77	74.00	-29.23	100	225	peak
N/A									



Compliance Certification Services Inc. Date of Issue: July 18, 2016 Report No: C160630R03-RPW1

FCC I	D: 2ABMA-888-700)-215

Operation Mode:	TX / IEEE 802.11ac VHT40 mode /CH High	Test Date:	2016-7-10
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	11107.372	39.44	5.26	44.70	74.00	-29.30	100	235	peak
2	14921.474	37.96	6.16	44.12	74.00	-29.88	100	282	peak
N/A									

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10862.180	40.15	5.64	45.79	74.00	-28.21	100	355	peak
2	14567.308	37.94	6.26	44.20	74.00	-29.80	100	352	peak
N/A									

Operation Mode:	TX / IEEE 802.11ac VHT80 mode /CH Mid	Test Date:	2016-7-10
Temperature:	25°C	Tested by:	Lily.Wang
Humidity:	55% RH	Polarity:	Ver. / Hor.

Horizontal

					.				
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10725.961	38.76	5.76	44.52	74.00	-29.48	100	285	peak
2	13995.192	38.01	6.43	44.44	74.00	-29.56	100	162	peak
N/A									

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	10562.500	39.79	5.89	45.68	74.00	-28.32	100	359	peak
2	13831.731	38.42	6.99	45.41	74.00	-28.59	100	275	peak
N/A									
				·	-				



Date of Issue :July 18, 2016

FCC ID: 2ABMA-888-700-215

7.7 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range	Limits (dBµV)					
(MHz)	Quasi-peak	Average				
0.15 to 0.50	66 to 56*	56 to 46*				
0.50 to 5	56	46				
5 to 30	60	50				

^{*} Decreases with the logarithm of the frequency.

TEST CONFIGURATION

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

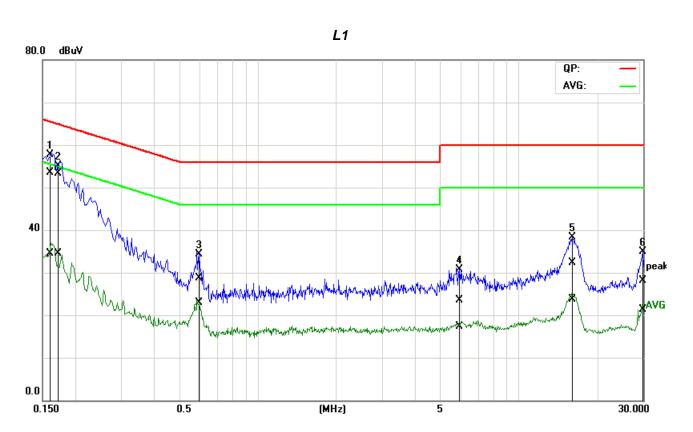


Compliance Certification Services Inc. Report No: C160630R03-RPW1

Date of Issue :July 18, 2016 FCC ID: 2ABMA-888-700-215

Test Data

Job No.:	C160630R03	Date:	2016-7-8
Model No.:	850-035453	Time:	PM 04:32:43
Standard:	FCC Class B	Temp.(C)/Hum.(%):	22(C)/48%
Test item:	Conduction test	Test By:	Lily.Wang
Line:	L1	Test Voltage:	AC 120V/60Hz
Model:		Description:	



No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1590	33.62	14.67	19.79	53.41	34.46	65.51	55.52	-12.10	-21.06	Pass
2*	0.1699	33.43	14.74	19.79	53.22	34.53	64.96	54.97	-11.74	-20.44	Pass
3	0.5958	8.98	3.08	19.81	28.79	22.89	56.00	46.00	-27.21	-23.11	Pass
4	5.8482	3.58	-2.64	19.93	23.51	17.29	60.00	50.00	-36.49	-32.71	Pass
5	16.1270	12.35	3.70	20.05	32.40	23.75	60.00	50.00	-27.60	-26.25	Pass
6	29.7843	7.82	1.06	20.28	28.10	21.34	60.00	50.00	-31.90	-28.66	Pass

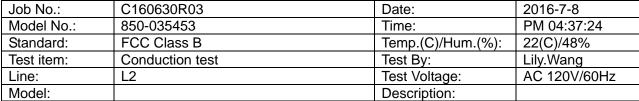
Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

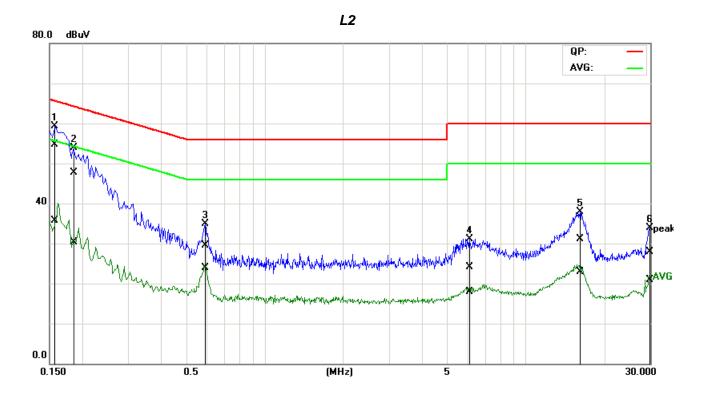


Compliance Certification Services Inc. Report No: C160630R03-RPW1

FCC ID: 2ABMA-888-700-215

2016-7-8 PM 04:37:24 22(C)/48%





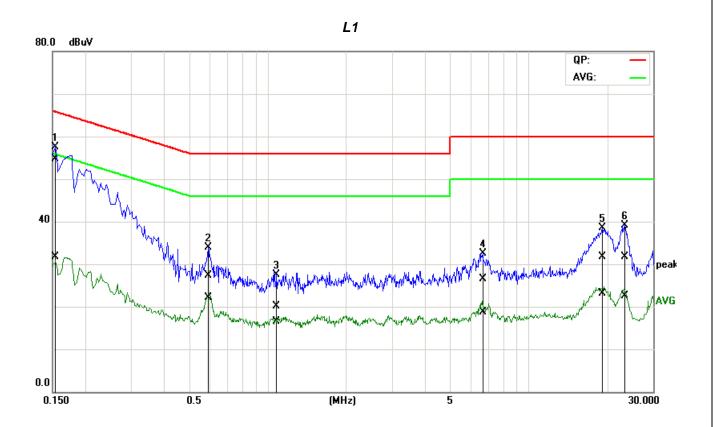
No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1559	35.01	15.89	19.74	54.75	35.63	65.67	55.68	-10.92	-20.05	Pass
2	0.1844	27.89	10.47	19.74	47.63	30.21	64.28	54.29	-16.65	-24.08	Pass
3	0.5905	9.85	4.18	19.75	29.60	23.93	56.00	46.00	-26.40	-22.07	Pass
4	6.0852	4.16	-2.05	19.86	24.02	17.81	60.00	50.00	-35.98	-32.19	Pass
5	16.1638	10.78	2.47	20.34	31.12	22.81	60.00	50.00	-28.88	-27.19	Pass
6	29.8976	7.38	0.36	20.57	27.95	20.93	60.00	50.00	-32.05	-29.07	Pass

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).



Report No: C160630R03-RPW1

Job No.:	C160630R03	Date:	2016-7-8
Model No.:	850-035453	Time:	PM 04:42:46
Standard:	FCC Class B	Temp.(C)/Hum.(%):	22(C)/48%
Test item:	Conduction test	Test By:	Lily.Wang
Line:	L1	Test Voltage:	AC 240V/60Hz
Model:		Description:	



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1500	35.01	11.90	19.79	54.80	31.69	65.99	56.00	-11.19	-24.31	Pass
2	0.5876	7.43	2.34	19.81	27.24	22.15	56.00	46.00	-28.76	-23.85	Pass
3	1.0933	0.31	-3.22	19.79	20.10	16.57	56.00	46.00	-35.90	-29.43	Pass
4	6.6711	6.52	-1.13	19.92	26.44	18.79	60.00	50.00	-33.56	-31.21	Pass
5	19.2180	11.52	2.97	20.10	31.62	23.07	60.00	50.00	-28.38	-26.93	Pass
6	23.5064	11.53	2.40	20.17	31.70	22.57	60.00	50.00	-28.30	-27.43	Pass

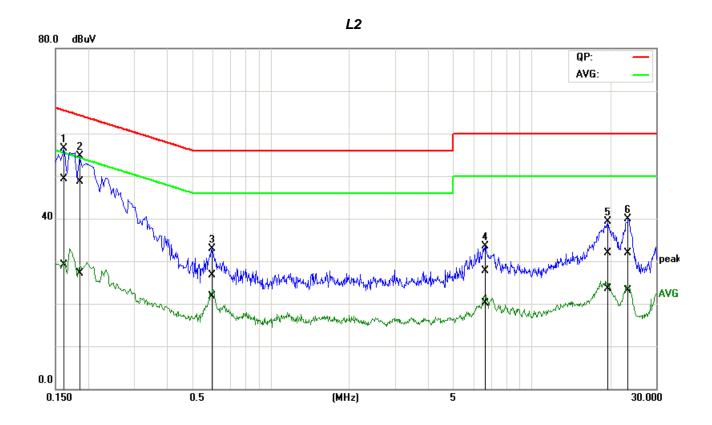
Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).



Date of Issue :July 18, 2016

FCC ID: 2ABMA-888-700-215

Job No.:	C160630R03	Date:	2016-7-8
JUD 140	C 100030103	Date.	
Model No.:	850-035453	Time:	PM 04:47:18
Standard:	FCC Class B	Temp.(C)/Hum.(%):	22(C)/48%
Test item:	Conduction test	Test By:	Lily.Wang
Line:	L2	Test Voltage:	AC 240V/60Hz
Model:		Description:	



No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1627	29.64	9.36	19.74	49.38	29.10	65.32	55.32	-15.94	-26.22	Pass
2*	0.1828	29.05	7.34	19.74	48.79	27.08	64.35	54.36	-15.56	-27.28	Pass
3	0.5873	6.98	2.00	19.75	26.73	21.75	56.00	46.00	-29.27	-24.25	Pass
4	6.6853	7.89	0.27	19.87	27.76	20.14	60.00	50.00	-32.24	-29.86	Pass
5	19.5858	11.48	3.17	20.38	31.86	23.55	60.00	50.00	-28.14	-26.45	Pass
6	23.4588	11.53	2.66	20.45	31.98	23.11	60.00	50.00	-28.02	-26.89	Pass

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

Remark:

- 1. The measuring frequencies range between 0.15 MHz and 30 MHz.
- 2. The emissions measured in the frequency range between 0.15 MHz and 30MHz were made with an instrument using Quasi-peak detector and Average detector.
- 3."---" denotes the emission level was or more than 2dB below the Average limit, and no re-check was made.
- 4.The IF bandwidth of SPA between 0.15MHz and 30MHz was 10KHz. The IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9kHz.

END OF REPORT

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