FCC 47 CFR PART 15 SUBPART C

for

LifeShare TV

Model: LifeShareTV-Pro-1.0

Brand: N/A

Test Report Number: C150727Z04-RP1-1

Issued Date: September 29, 2015

Issued for

LifeShare Technologies LLC 2177 Intelliplex Dr., Suite 150 Shelbyville, IN 46176

Issued by:

Compliance Certification Services (Shenzhen) Inc.

No.10-1 Mingkeda Logistics park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen, China

> TEL: 86-755-28055000 FAX: 86-755-28055221







Report No.: C150727Z04-RP1-1

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Revision History

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Rev.	Issue Date	Revisions	Effect Page	Revised By
00	September 29, 2015	Initial Issue	ALL	Sabrina Wang

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TEST CERTIFICATION

Product	LifeShare TV
Model	LifeShareTV-Pro-1.0
Brand	N/A
Tested	July 27~September 29, 2015
Applicant	LifeShare Technologies LLC 2177 Intelliplex Dr., Suite 150 Shelbyville, IN 46176
Manufacturer	LifeShare Technologies LLC 2177 Intelliplex Dr., Suite 150 Shelbyville, IN 46176

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APPLICABLE STANDARDS						
Standard	Test Type	Standard	Test Type			
15.207(a)	Power Line Conducted Emissions	15.247(d) 15.209(a)	Spurious EmissionsConducted MeasurementRadiated Emissions			
15.247(a)(2)	6dB Bandwidth Measurement	15.247(b)(3) 15.247(b)(4)	Peak Power Measurement			
15.247(d)	Band Edges Measurement	15.247(e)	Peak Power Spectral Density			

We hereby certify that:

The above equipment was tested by Compliance Certification Services (Shenzhen) 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, 15.247. The test results of this report relate only to the tested sample EUT identified in this report.

Approved by: Reviewed by:

Sunday Hu Supervisor of EMC Dept.

Supervisor of Report Dept. Compliance Certification Services (Shenzhen) Inc. Compliance Certification Services (Shenzhen) Inc.

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Ruby Zhang

2 TEST RESULT SUMMARY

APPLICABLE STANDARDS							
Standard	Test Type	Result	Remark				
15.247(a)(2)	6dB Bandwidth Measurement	Pass	Meet the requirement of limit.				
15.247(b)(3) 15.247(b)(4)	Peak Power Measurement	Pass	Meet the requirement of limit.				
15.247(d)	Band Edges Measurement	Pass	Meet the requirement of limit.				
15.247(e)	247(e) Peak Power Spectral Density		Meet the requirement of limit.				
15.247(d) 15.209(a)	Spurious EmissionsConducted MeasurementRadiated Emissions	Pass	Meet the requirement of limit.				
15.207(a)	Power line Conducted Emissions	Pass	Meet the requirement of limit.				

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Note: 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.

2. The information of measurement uncertainty is available upon the customer's request.

3 EUT DESCRIPTION

Product	LifeShare TV
Model Number	LifeShareTV-Pro-1.0
Brand	N/A
Model Discrepancy	N/A
Identify Number	C150727Z04-RP1-1
Received Date	July 27, 2015
Power Supply	DC5V supplied by the Adapter
Adapter Manufacturer /Model No.	SHENZHEN FUJIA APPLIANCE CO., LTD. / FJ-SW0502000U I/P: 100-240Vac, 50/60Hz, 0.35A O/P: 5Vdc, 2000mA
Transmit Power	IEEE 802.11b mode: 9.51dBm (Antenna 1) IEEE 802.11b mode: 9.43dBm (Antenna 2) IEEE 802.11g mode: 14.40dBm (Antenna 1) IEEE 802.11g mode:14.65dBm (Antenna 2) IEEE 802.11n HT20 MHz mode: 15.45dBm(Combine with Antenna 1 and Antenna 2) IEEE 802.11n HT40 MHz mode: 15.07dBm(Combine with Antenna 1 and Antenna 2)
Modulation Technique	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM)
Transmit Data Rate	IEEE 802.11b: 11Mbps(CCK) with fall back rates of 5.5/2/1Mbps IEEE 802.11g: 54Mbps with fall back rates of 48/36/24/18/12/9 /6Mbps IEEE 802.11n HT20: 130Mbps with fall back rates of 130/117/104/ 78/52/39/26/13Mbps IEEE 802.11n HT40: 270Mbps with fall back rates of 270/243/216/ 162/108/81/54/27Mbps
Number of Channels	IEEE 802.11b mode: 11 Channels
Antenna Specification	PCB Antenna with 3dBi gain (Max)
Channels Spacing	IEEE 802.11b/g ,802.11n HT20/HT40 : 5MHz
Temperature Range	0°C ~ +40°C
Hardware Version	2.0
Software Version	1509

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Note: 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

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^{2.} This submittal(s) (test report) is intended for FCC ID: <u>2AFNK-D2C315</u> filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

4 TEST METHODOLOGY

4.1. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

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Test Item	Test Item Test mode	
	Mode 1: HDMI + USB1 Play (AC120V/60Hz)	
Conducted	Mode 2: HDMI + USB2 Play (AC120V/60Hz)	
Emission	Mode 3: HDMI + TF Play (AC120V/60Hz)	
	Mode 4: HDMI + USB1 Play (AC240V/50Hz)	
Radiated Emission	Mode 1: TX	\boxtimes

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only, and power line conducted emission below 30MHz, which worst case was in normal link mode.

IEEE802.11b mode: Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 1Mbps data rate were chosen for full testing.

IEEE802.11g mode: Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT20 MHz mode: Channel Low (2412MHz), Channel Mid(2437MHz) and Channel High (2462MHz) with 13Mbps data rate were chosen for full testing.

IEEE 802.11n HT40 MHz mode: Channel Low (2422MHz), Channel Mid (2437MHz) and Channel High (2452MHz) with 27Mbps data rate were chosen for full testing.

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5 SETUP OF EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
1	TV	TLM19V68	N/A	DOC	Hisense	N/A	Unshielded 1.50m
2	Mouse	WB365PA#AB2	2HTJMB10117 8-317	DOC	DELL	Shielded 1.45m	N/A

Note:

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5.2. CONFIGURATION OF SYSTEM UNDER TEST

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

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6 FACILITIES AND ACCREDITATIONS

6.1. FACILITIES

All measurement facilities used to collect the measurement data are located at No.10-1 Mingkeda Logistics park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen, China

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The sites are constructed in conformance with the requirements of ANSI C63.10, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA A2LA China CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA FCC

Japan VCCI(C-3478, R-3135, T-652, G-624)

Canada INDUSTRY CANADA

Taiwan BSMI

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccssz.com

6.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Uncertainty
Radiated Emission, 30 to 200 MHz Test Site: 966(2)	+/-3.6880dB
Radiated Emission, 200 to 1000 MHz Test Site: 966(2)	+/-3.6695dB
Radiated Emission, 1 to 8 GHz	+/-5.1782dB
Radiated Emission, 8 to 18 GHz	+/-5.2173dB
Conducted Emissions	+/-3.6836dB
Band Width	178kHz
Peak Output Power MU	+/-1.906dB
Band Edge MU	+/-0.182dB
Channel Separation MU	416.178Hz
Duty Cycle MU	0.054ms
Frequency Stability MU	226Hz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

The measured result is above (below) the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance (non-compliance) is more probable than non-compliance) with the specification limit.

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7 FCC PART 15.247 REQUIREMENTS

7.1. POWER LINE CONDUCTED EMISSIONS MEASUREMENT

7.1.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

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.

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Frequency Range		nits μV)
(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

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

7.1.2. TEST INSTRUMENTS

	Conducted Emission Test Site								
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration				
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/28/2015	02/27/2016				
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	02/28/2015	02/27/2016				
LISN	EMCO	3825/2	8901-1459	02/28/2015	02/27/2016				
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	02/28/2015	02/27/2016				
Test S/W	FARAD	1-CE							

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

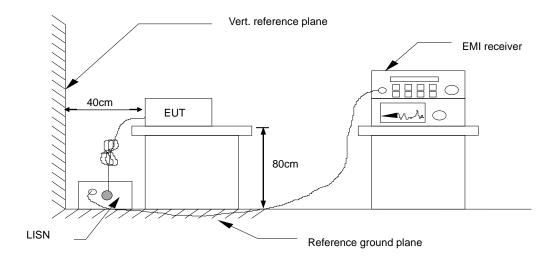
2. N.C.R = No Calibration Request.

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7.1.3. TEST PROCEDURES (please refer to measurement standard)

- The EUT and Support equipment, if needed, was placed on a non-conducted table, which is 0.8m above the ground plane and 0.4m away from the conducted wall.
- The test equipment EUT installed received AC main power, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane. All support equipment power received from a second LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The frequency range from 150 kHz to 30 MHz was searched. The test data of the worst-case condition(s) was recorded. Emission levels under limit 20dB were not recorded.

7.1.4. TEST SETUP



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For the actual test configuration, please refer to the related item - Photographs of the Test Configuration.

7.1.5. DATA SAMPLE

Frequency (MHz)		Average Reading (dBuV)		QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Margin	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

Factor = Insertion loss of LISN + Cable Loss

Result = Quasi-peak Reading/ Average Reading + Factor

Limit = Limit stated in standard

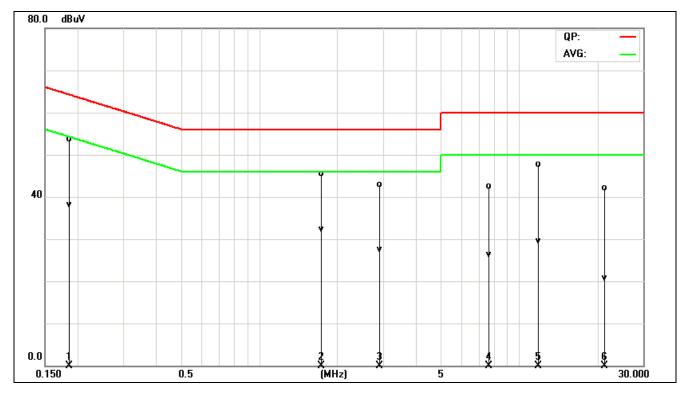
Margin = Result (dBuV) – Limit (dBuV)

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7.1.6. TEST RESULTS

Model No.		RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Candy Xia	Line	L1
Test Date	September 24, 2015		

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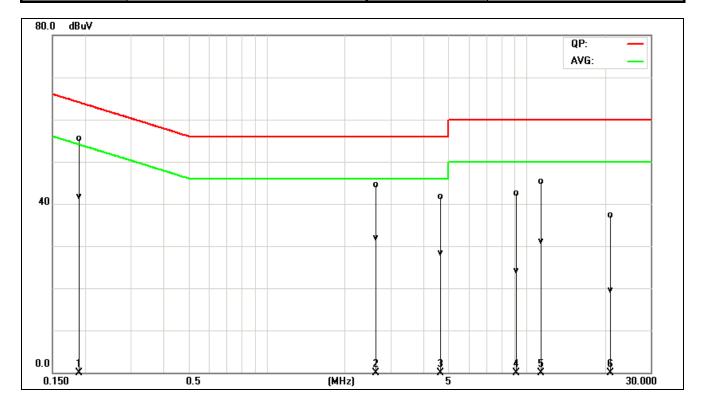


Frequency (MHz)		Average Reading (dBuV)		QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Margin	Remark (Pass/Fail)	Line (L1/L2)
0.1860	43.98	28.48	9.66	53.64	38.14	64.21	54.21	-10.57	-16.07	Pass	L1
1.7340	35.76	22.61	9.72	45.48	32.33	56.00	46.00	-10.52	-13.67	Pass	L1
2.8900	33.27	17.77	9.71	42.98	27.48	56.00	46.00	-13.02	-18.52	Pass	L1
7.6380	32.70	16.44	9.80	42.50	26.24	60.00	50.00	-17.50	-23.76	Pass	L1
11.8060	37.91	19.62	9.88	47.79	29.50	60.00	50.00	-12.21	-20.50	Pass	L1
21.2060	32.23	10.91	9.84	42.07	20.75	60.00	50.00	-17.93	-29.25	Pass	L1

REMARKS: L1 = Line One (Live Line)

Model No.		RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Candy Xia	Line	L1
Test Date	September 24, 2015		

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Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)		QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Margin	Remark (Pass/Fail)	Line (L1/L2)
0.1900	45.71	31.91	9.79	55.50	41.70	64.03	54.04	-8.53	-12.34	Pass	L2
2.6180	34.77	22.09	9.74	44.51	31.83	56.00	46.00	-11.49	-14.17	Pass	L2
4.6540	31.86	18.51	9.77	41.63	28.28	56.00	46.00	-14.37	-17.72	Pass	L2
9.0780	32.73	14.22	9.84	42.57	24.06	60.00	50.00	-17.43	-25.94	Pass	L2
11.3420	35.53	21.25	9.83	45.36	31.08	60.00	50.00	-14.64	-18.92	Pass	L2
21.0100	27.66	9.67	9.74	37.40	19.41	60.00	50.00	-22.60	-30.59	Pass	L2

REMARKS: L2 = Line Two (Neutral Line)

7.2. SPURIOUS EMISSIONS MEASUREMENT

7.2.1. CONDUCTED EMISSIONS MEASUREMENT

7.2.1.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

§15.247(d)specifies that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

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If the peakoutput power procedure is used to measure the fundamental emission powerto demonstrate compliance to 15.247(b)(3)requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency bandshall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

If the averageoutput power procedure is used to measure the fundamental emission powerto demonstrate compliance to 15.247(b)(3)requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measuredin-band average PSD level.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

7.2.1.2. TEST INSTRUMENTS

Name of Equipment	Manutacturer		Serial Number	Last Calibration	Due Calibration	
Spectrum Analyzer	Agilent	E4446A	US44300399	02/28/2015	02/27/2016	

7.2.1.3. TEST PROCEDURE (please refer to measurement standard)

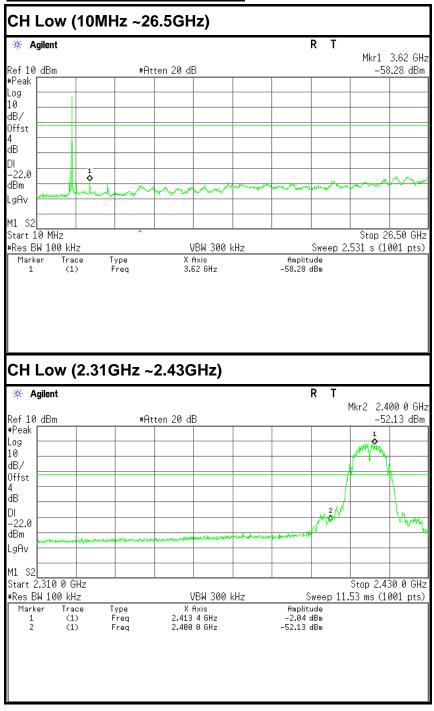
Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

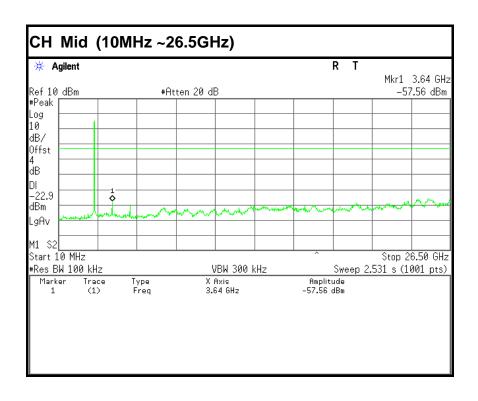
The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

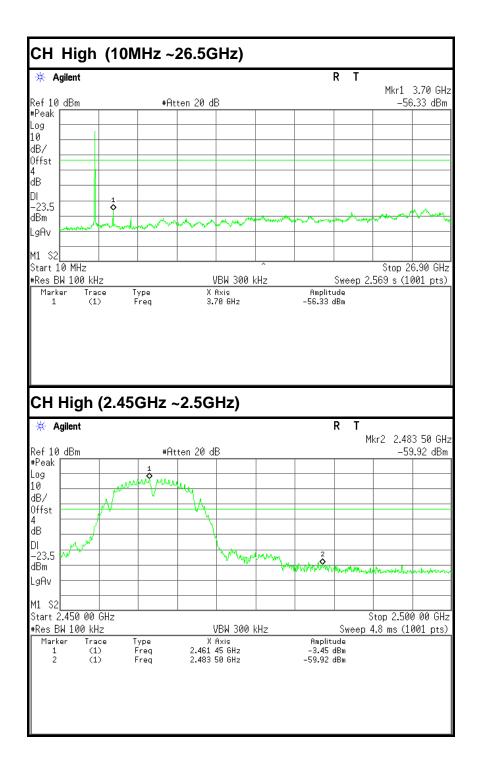
Measurements are made over the 10MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels. No emission found between lowest internal used/generated frequency to 10MHz, it is only recorded 10MHz to 26GHz.

7.2.1.4. TEST RESULTS

Test Plot IEEE 802.11b mode (Antenna 1)

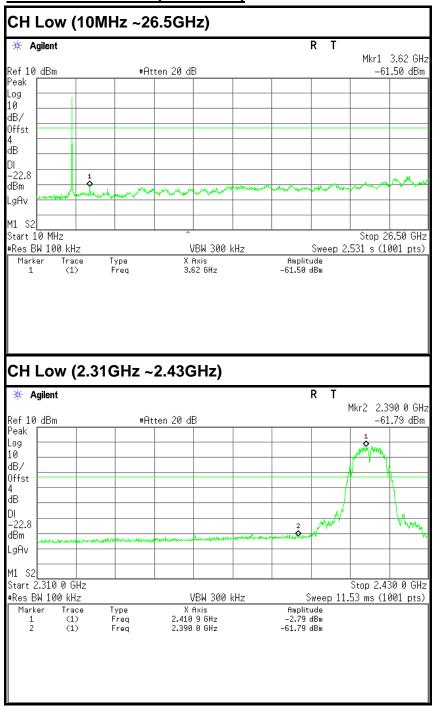


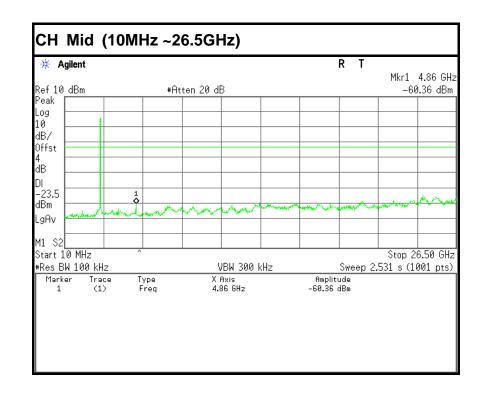


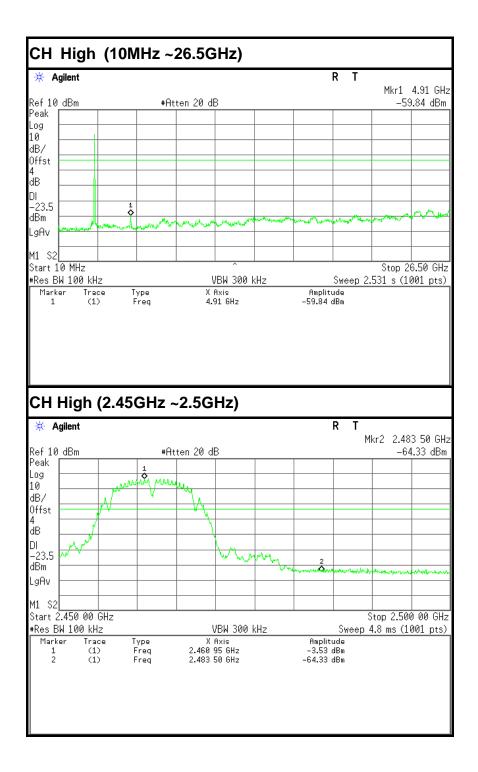


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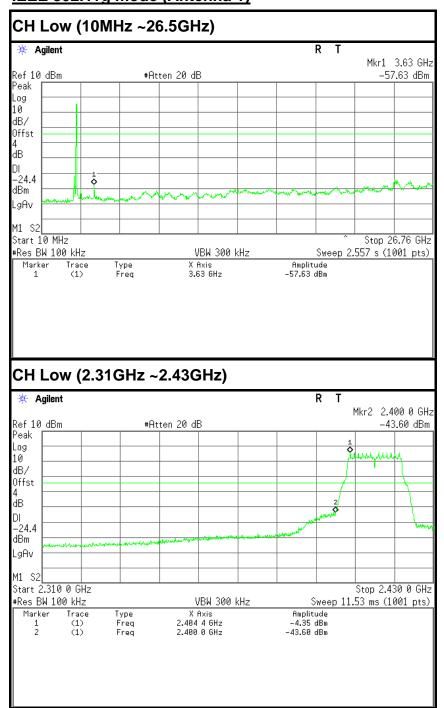
IEEE 802.11b mode (Antenna 2)

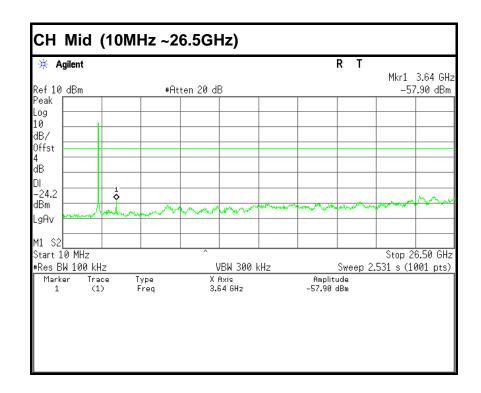


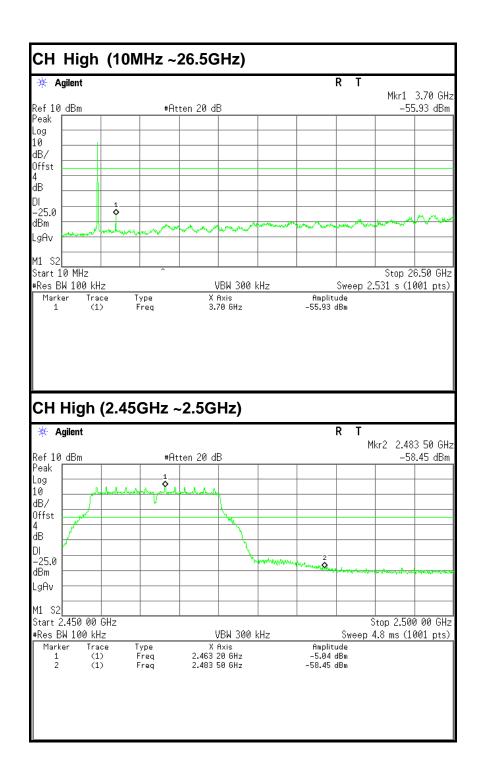




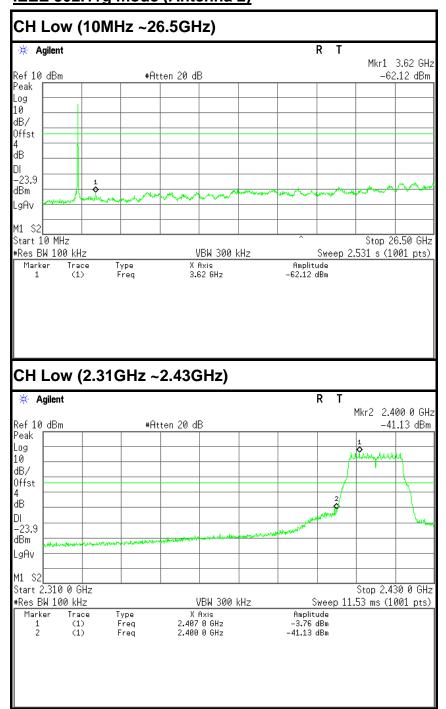
IEEE 802.11g mode (Antenna 1)

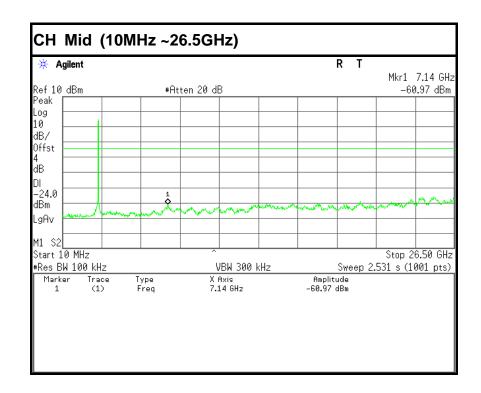


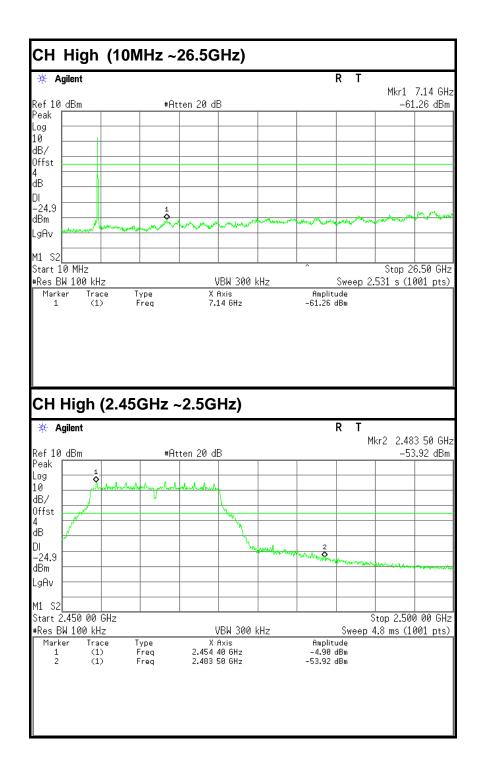




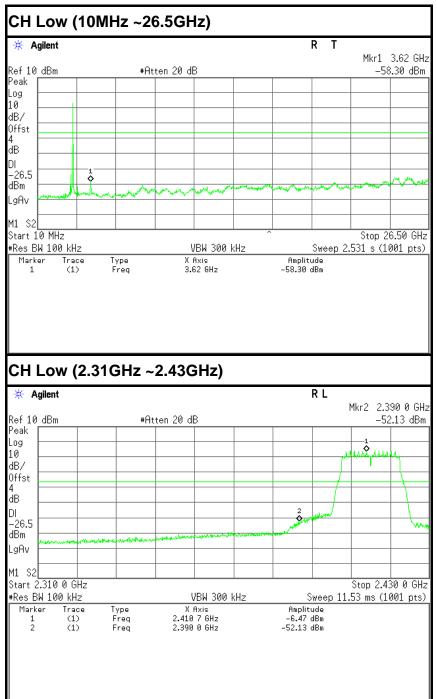
IEEE 802.11g mode (Antenna 2)

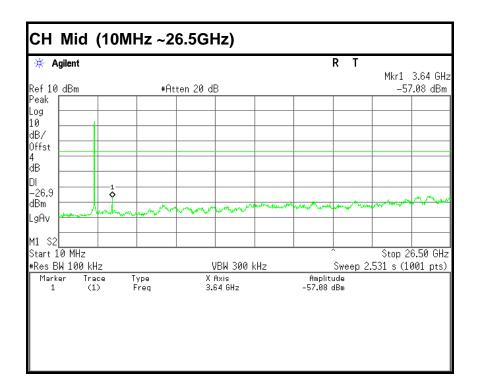


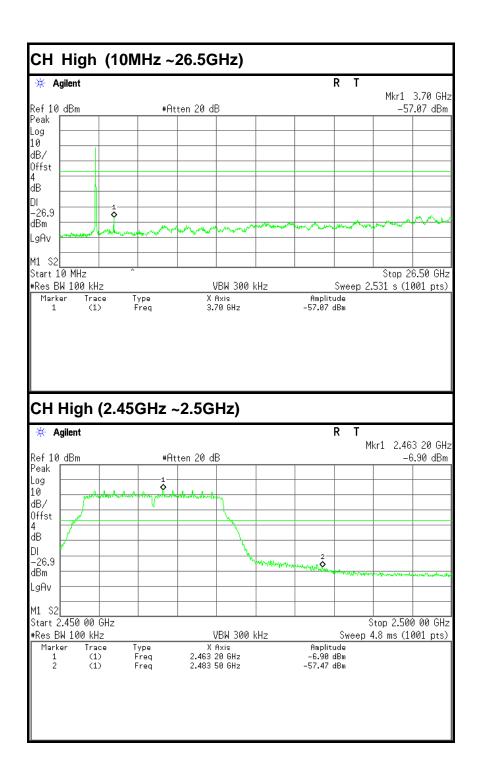




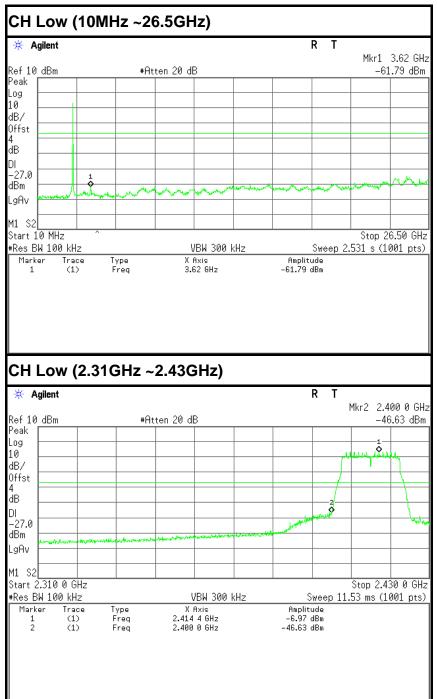
IEEE 802.11n HT20 MHz mode (Antenna 1)

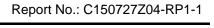


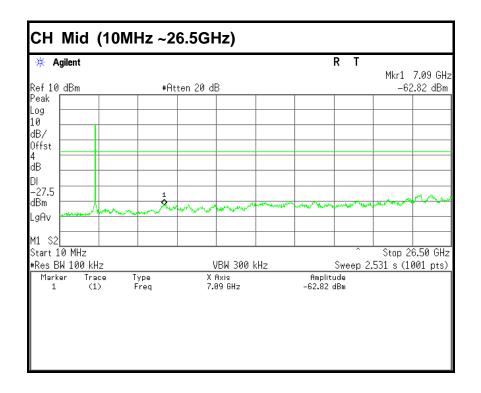




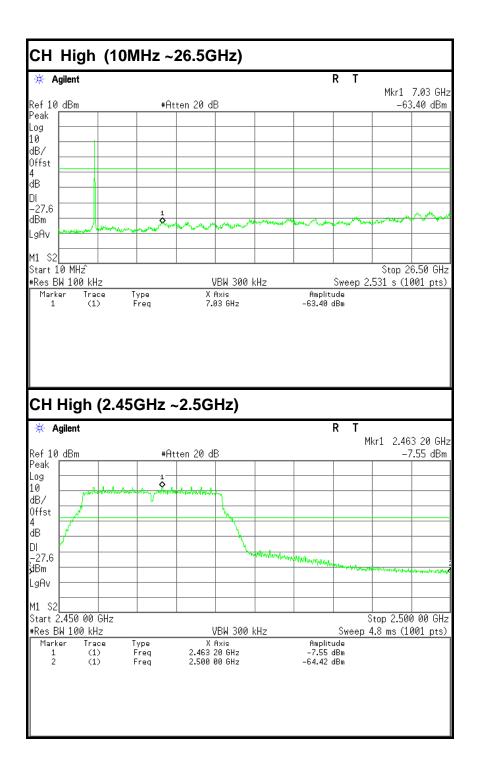
IEEE 802.11n HT20 MHz mode (Antenna 2)



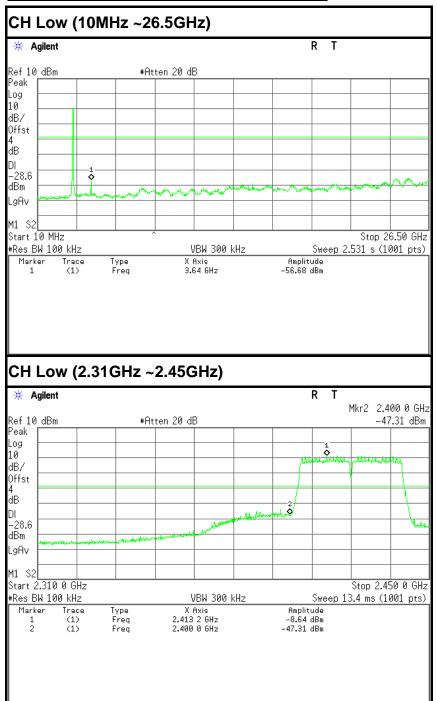




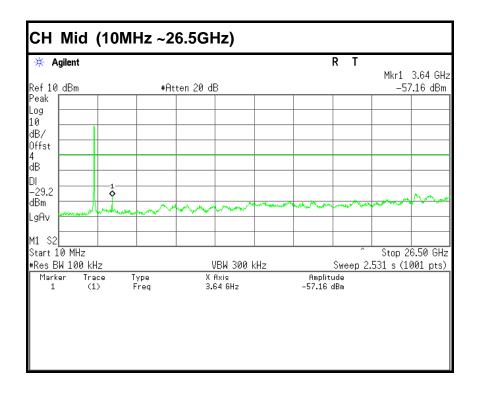


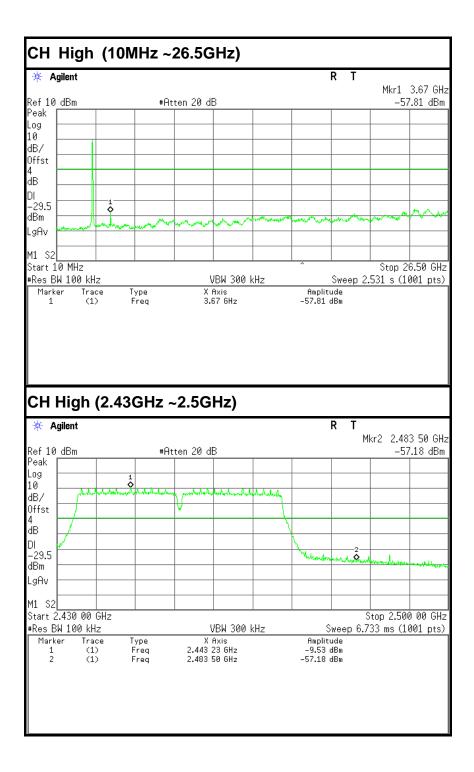


IEEE 802.11n HT40 MHz mode (Antenna 1)

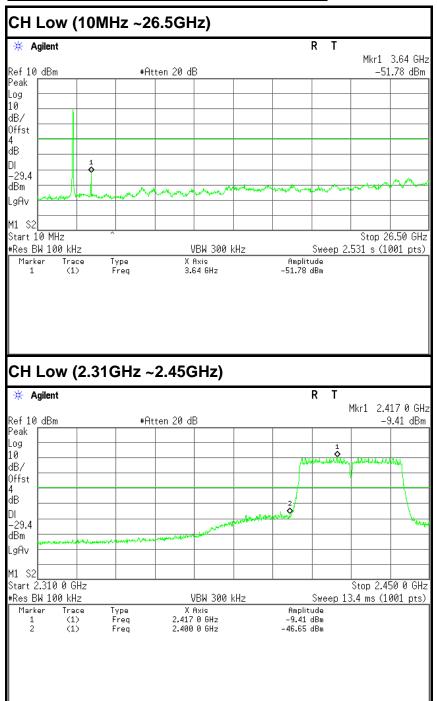






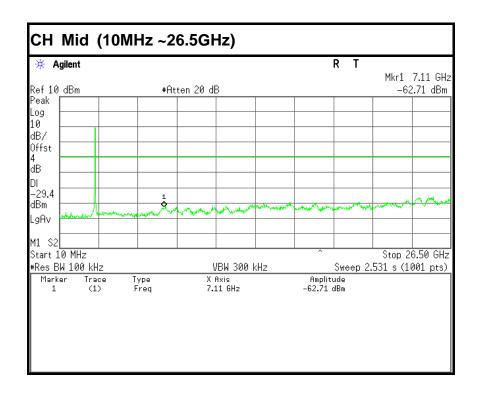


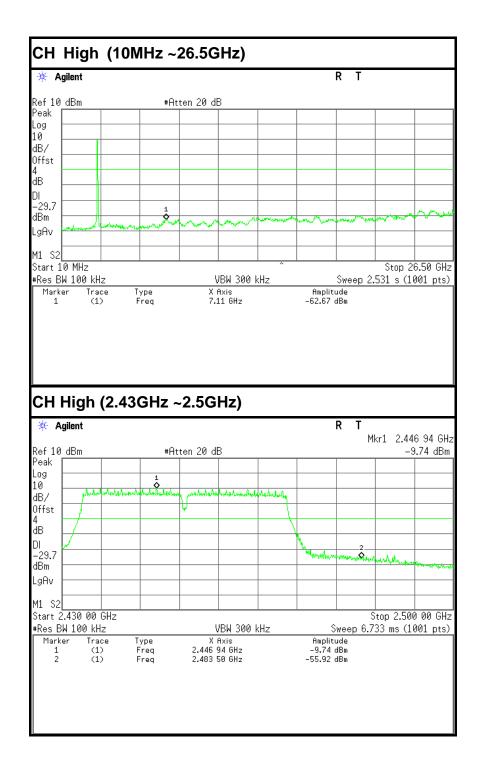
IEEE 802.11n HT40 MHz mode (Antenna 2)



Report No.: C150727Z04-RP1-1







7.2.2. RADIATED EMISSIONS MEASUREMENT

7.2.2.1. LIMITS OF RADIATED EMISSIONS MEASUREMENT

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:

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Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
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.

1. 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

NOTE:(1) The lower limit shall apply at the transition frequencies.

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⁽²⁾ Emission level (dBuV/m) = 20 log Emission level (uV/m).

7.2.2.2. TEST INSTRUMENTS

	Radiated Er	mission Test S	Site 966 (2)		
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	02/28/2015	02/27/2016
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/28/2015	02/27/2016
Amplifier	MITEQ	AM-1604-3000	1123808	03/18/2015	03/18/2016
High Noise Amplifier	Agilent	8449B	3008A01838	02/28/2015	02/27/2016
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2015	02/27/2016
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/28/2015	02/27/2016
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2015	02/27/2016
Loop Antenna	COM-POWER	AL-130	121044	09/25/2015	09/24/2016
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	СТ	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/28/2015	02/27/2016
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Test S/W	FARAD		LZ-RF / CCS	S-SZ-3A2	

Report No.: C150727Z04-RP1-1

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The FCC Site Registration number is 101879.
- 3. N.C.R = No Calibration Required.

7.2.2.3. TEST PROCEDURE (please refer to measurement standard)

- 1. The EUT is placed on a turntable, which is 0.8m or 1.5m above 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 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

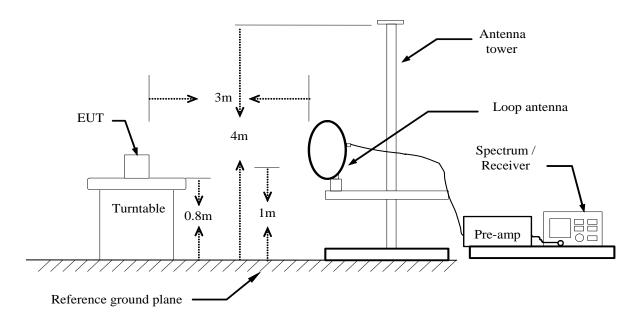
Above 1GHz:

- (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO
- (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
- 7. Repeat above procedures until the measurements for all frequencies
- 8. are complete.

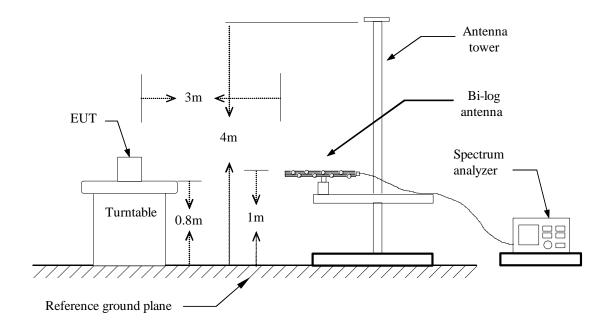
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7.2.2.4. TEST SETUP

Below 30MHz

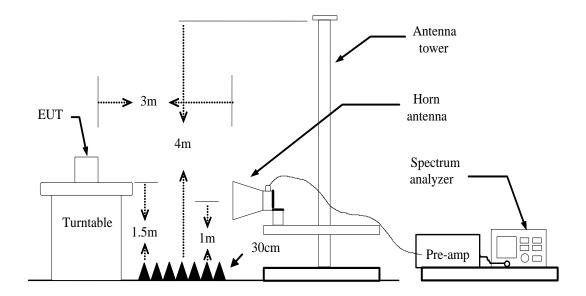


Below 1 GHz



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Above 1 GHz



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For the actual test configuration, please refer to the related item - Photographs of the Test Configuration.

7.2.2.5. DATA SAPLE

Below 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXX.XXXX	36.37	-12.20	24.17	40.00	-15.83	V	QP

Report No.: C150727Z04-RP1-1

Frequency (MHz) = Emission frequency in MHz

Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correct Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

Q.P. = Quasi-peak Reading

Above 1GHz

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXXX.XXXX	62.09	-11.42	50.67	74.00	-23.33	V	Peak
XXXX.XXXX	49.78	-11.42	38.36	54.00	-15.64	V	AVG

Frequency (MHz) = Emission frequency in MHz

Reading (dBuV) = Uncorrected Analyzer / Receiver reading Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

Peak = Peak Reading AVG = Average Reading

Calculation Formula

Margin (dB) = Result (dBuV/m) - Limits (dBuV/m) Result (dBuV/m) = Reading (dBuV) + Correction Factor

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7.2.2.6. TEST RESULTS

Below 1 GHz

Test Mode: TX_ Tested by: Jack Chen

Report No.: C150727Z04-RP1-1

Ambient temperature: 24°C Relative humidity: 52% RH Date: September 28, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
75.5900	64.07	-26.25	37.82	40.00	-2.18	V	QP
133.7900	61.99	-20.94	41.05	43.50	-2.45	V	QP
424.7900	53.43	-15.50	37.93	46.00	-8.07	V	QP
540.2200	54.29	-13.28	41.01	46.00	-4.99	V	QP
708.0300	53.99	-11.91	42.08	46.00	-3.92	V	QP
991.2700	52.02	-9.29	42.73	54.00	-11.27	V	QP
111.4800	62.96	-21.73	41.23	43.50	-2.27	Н	QP
424.7900	54.42	-15.50	38.92	46.00	-7.08	Н	QP
566.4100	54.36	-13.11	41.25	46.00	-4.75	Н	QP
593.5700	53.35	-12.98	40.37	46.00	-5.63	Н	QP
742.9500	51.08	-11.30	39.78	46.00	-6.22	Н	QP
849.6500	52.44	-10.69	41.75	46.00	-4.25	Н	QP

^{**}Remark: No emission found between lowest internal used/generated frequency to 30MHz.

Notes:

- 1. Radiated emissions measured in frequency range from 9kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
- 2. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. The IF bandwidth of Receiver between 30MHz to 1GHz was 120kHz.

4. Frequency (MHz).

= Emission frequency in MHz

Reading (dBµV/m)
Correction Factor (dB)

= Receiver reading

= Antenna factor + Cable loss - Amplifier gain

Limit (dBµV/m) = Limit stated in standard

Margin (dB)

= Measured ($dB\mu V/m$) – Limits ($dB\mu V/m$)

Antenna Pol e(H/V)

= Current carrying line of reading

Above 1 GHz Antenna 1

Test Mode: TX / IEEE 802.11b(CH Low) Tested by: Jack Chen

Report No.: C150727Z04-RP1-1

Ambient temperature: 24°C Relative humidity: 52% RH Date: August 10, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1630.000	53.54	-6.64	46.90	74.00	-27.10	V	peak
1981.000	49.77	-5.12	44.65	74.00	-29.35	V	peak
2575.000	45.24	-2.12	43.12	74.00	-30.88	V	peak
2971.000	52.07	-1.41	50.66	74.00	-23.34	V	peak
3961.000	42.57	1.43	44.00	74.00	-30.00	V	peak
4456.000	45.75	3.20	48.95	74.00	-25.05	V	peak
4825.000	43.93	4.41	48.34	74.00	-25.66	V	peak
2971.000	54.46	-1.41	53.05	74.00	-20.95	Н	Peak
2971.000	43.37	-1.41	41.96	54.00	-12.04	Н	AVG
3448.000	43.05	-0.61	42.44	74.00	-31.56	Н	peak
3961.000	43.75	1.43	45.18	74.00	-28.82	Н	peak
4456.000	43.54	3.20	46.74	74.00	-27.26	Н	peak
4825.000	42.93	4.41	47.34	74.00	-26.66	Н	peak
5761.000	40.41	5.98	46.39	74.00	-27.61	Н	peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11b (CH Mid)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: August 10, 2015

Report No.: C150727Z04-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2548.000	45.38	-2.17	43.21	74.00	-30.79	V	Peak
2971.000	53.61	-1.41	52.20	74.00	-21.80	V	Peak
3961.000	44.29	1.43	45.72	74.00	-28.28	V	Peak
4456.000	43.80	3.20	47.00	74.00	-27.00	V	Peak
4870.000	43.02	4.56	47.58	74.00	-26.42	V	Peak
5473.000	40.92	5.82	46.74	74.00	-27.26	V	Peak
1981.000	53.53	-5.12	48.41	74.00	-25.59	Н	Peak
2971.000	45.97	-1.41	44.56	74.00	-29.44	Н	Peak
3961.000	43.53	1.43	44.96	74.00	-29.04	Н	Peak
4456.000	43.17	3.20	46.37	74.00	-27.63	Н	Peak
4960.000	41.29	4.85	46.14	74.00	-27.86	Н	Peak
6166.000	41.01	6.35	47.36	74.00	-26.64	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11b (CH High)

Ambient temperature: 24°C Relative humidity: 52% RH

Tested by: Jack Chen

Date: August 10, 2015

Report No.: C150727Z04-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2971.000	53.06	-1.41	51.65	74.00	-22.35	V	Peak
3961.000	43.63	1.43	45.06	74.00	-28.94	V	Peak
4456.000	44.96	3.20	48.16	74.00	-25.84	V	Peak
4924.000	45.31	4.73	50.04	74.00	-23.96	V	Peak
5734.000	41.17	5.97	47.14	74.00	-26.86	V	Peak
6544.000	40.52	6.96	47.48	74.00	-26.52	V	Peak
2575.000	45.71	-2.12	43.59	74.00	-30.41	Н	Peak
2971.000	49.45	-1.41	48.04	74.00	-25.96	Н	Peak
3952.000	41.65	1.39	43.04	74.00	-30.96	Н	Peak
4924.000	43.88	4.73	48.61	74.00	-25.39	Н	Peak
6247.000	39.86	6.48	46.34	74.00	-27.66	Н	Peak
6985.000	40.18	7.68	47.86	74.00	-26.14	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Antenna 2

Test Mode: TX / IEEE 802.11b(CH Low)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: August 10, 2015

Report No.: C150727Z04-RP1-1

Н

Н

Н

Н

Peak

peak

peak

peak

-30.72

-28.24

-28.51

-26.74

Correction **Antenna** Frequency Reading Result Limit Margin Remark Pole **Factor** (MHz) (dBuV) (dBuV/m) (dBuV/m) (dB) (dB/m) (V/H) 2413.000 46.35 -2.7474.00 -30.39 43.61 peak ٧ 2971.000 50.18 -1.41 48.77 74.00 -25.23 peak 3889.000 42.84 1.12 43.96 74.00 -30.04 V peak V 4456.000 41.91 3.20 45.11 74.00 -28.89 peak 4.41 ٧ 4825.000 42.04 46.45 74.00 -27.55 peak ٧ 6247,000 40.51 6.48 46.99 74.00 -27.01 peak 74.00 Н 2413.000 46.57 -2.74 43.83 -30.17Peak 2971.000 -1.41 47.85 74.00 Н Peak 49.26 -26.15

43.28

45.76

45.49

47.26

REMARKS:

3826.000

4456.000

4825.000

6139.000

42.42

42.56

41.08

40.95

0.86

3.20

4.41

6.31

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

74.00

74.00

74.00

74.00

- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11b (CH Mid)

Ambient temperature: 24°C Relative humidity: 52% RH

Tested by: Jack Chen

Date: August 10, 2015

Report No.: C150727Z04-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2548.000	45.38	-2.17	43.21	74.00	-30.79	V	Peak
2971.000	53.38	-1.41	51.97	74.00	-22.03	V	Peak
3961.000	45.72	1.43	47.15	74.00	-26.85	V	Peak
4456.000	44.22	3.20	47.42	74.00	-26.58	V	Peak
4870.000	42.48	4.56	47.04	74.00	-26.96	V	Peak
6157.000	40.62	6.33	46.95	74.00	-27.05	V	Peak
1702.000	48.88	-6.48	42.40	74.00	-31.60	Н	Peak
1981.000	47.35	-5.12	42.23	74.00	-31.77	Н	Peak
2476.000	45.17	-2.39	42.78	74.00	-31.22	Н	Peak
3214.000	42.62	-1.00	41.62	74.00	-32.38	Н	Peak
4546.000	41.12	3.50	44.62	74.00	-29.38	Н	Peak
5041.000	41.14	5.05	46.19	74.00	-27.81	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11b (CH High)

Ambient temperature: 24°C Relative humidity: 52% RH

Tested by: Jack Chen

Date: August 10, 2015

Report No.: C150727Z04-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2503.000	45.85	-2.25	43.60	74.00	-30.40	V	Peak
2971.000	52.68	-1.41	51.27	74.00	-22.73	V	Peak
3268.000	43.45	-0.91	42.54	74.00	-31.46	V	Peak
3961.000	43.07	1.43	44.50	74.00	-29.50	V	Peak
4456.000	43.22	3.20	46.42	74.00	-27.58	V	Peak
4924.000	43.40	4.73	48.13	74.00	-25.87	V	Peak
2575.000	45.71	-2.12	43.59	74.00	-30.41	Н	Peak
2971.000	49.45	-1.41	48.04	74.00	-25.96	Н	Peak
3952.000	41.65	1.39	43.04	74.00	-30.96	Н	Peak
4924.000	43.88	4.73	48.61	74.00	-25.39	Н	Peak
5437.000	40.04	5.76	45.80	74.00	-28.20	Н	Peak
6247.000	39.86	6.48	46.34	74.00	-27.66	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Antenna 1

Test Mode: TX / IEEE 802.11g(CH Low)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: August 10, 2015

Report No.: C150727Z04-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1981.000	55.15	-5.12	50.03	74.00	-23.97	V	Peak
2773.000	44.73	-1.77	42.96	74.00	-31.04	V	Peak
2971.000	51.04	-1.41	49.63	74.00	-24.37	V	Peak
3808.000	41.61	0.78	42.39	74.00	-31.61	V	Peak
4537.000	41.15	3.47	44.62	74.00	-29.38	V	Peak
5482.000	40.64	5.84	46.48	74.00	-27.52	V	Peak
2809.000	44.00	-1.70	42.30	74.00	-31.70	Н	Peak
2971.000	51.12	-1.41	49.71	74.00	-24.29	Н	Peak
3295.000	42.82	-0.86	41.96	74.00	-32.04	Н	Peak
3961.000	42.63	1.43	44.06	74.00	-29.94	Н	Peak
4456.000	44.39	3.20	47.59	74.00	-26.41	Н	Peak
4861.000	40.40	4.53	44.93	74.00	-29.07	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11g (CH Mid)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: August 10, 2015

Report No.: C150727Z04-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2557.000	45.46	-2.16	43.30	74.00	-30.70	V	Peak
2971.000	49.62	-1.41	48.21	74.00	-25.79	V	Peak
3889.000	42.10	1.12	43.22	74.00	-30.78	V	Peak
4456.000	41.42	3.20	44.62	74.00	-29.38	V	Peak
4879.000	41.73	4.59	46.32	74.00	-27.68	V	Peak
5923.000	40.49	6.05	46.54	74.00	-27.46	V	Peak
1981.000	55.83	-5.12	50.71	74.00	-23.29	Н	Peak
2971.000	51.85	-1.41	50.44	74.00	-23.56	Н	Peak
3961.000	45.26	1.43	46.69	74.00	-27.31	Н	Peak
4456.000	45.41	3.20	48.61	74.00	-25.39	Н	Peak
4870.000	41.72	4.56	46.28	74.00	-27.72	Н	Peak
6013.000	41.10	6.10	47.20	74.00	-26.80	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11g (CH High)

Ambient temperature: 24°C Relative humidity: 52% RH

Tested by: Jack Chen

Date: August 10, 2015

Report No.: C150727Z04-RP1-1

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Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1981.000	52.17	-5.12	47.05	74.00	-26.95	V	Peak
2971.000	50.44	-1.41	49.03	74.00	-24.97	V	Peak
3826.000	41.54	0.86	42.40	74.00	-31.60	V	Peak
4267.000	42.10	2.53	44.63	74.00	-29.37	V	Peak
4924.000	41.60	4.73	46.33	74.00	-27.67	V	Peak
5752.000	39.84	5.98	45.82	74.00	-28.18	V	Peak
2458.000	45.73	-2.49	43.24	74.00	-30.76	Н	Peak
2971.000	52.67	-1.41	51.26	74.00	-22.74	Н	Peak
3448.000	42.91	-0.61	42.30	74.00	-31.70	Н	Peak
4033.000	42.28	1.71	43.99	74.00	-30.01	Н	Peak
4456.000	44.59	3.20	47.79	74.00	-26.21	Н	Peak
5365.000	41.01	5.63	46.64	74.00	-27.36	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Antenna 2

Test Mode: TX / IEEE 802.11g(CH Low)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: August 10, 2015

Report No.: C150727Z04-RP1-1

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Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1891.000	55.52	-5.69	49.83	74.00	-24.17	V	Peak
2971.000	50.81	-1.41	49.40	74.00	-24.60	V	Peak
3394.000	42.91	-0.70	42.21	74.00	-31.79	V	Peak
4456.000	41.71	3.20	44.91	74.00	-29.09	V	Peak
4870.000	41.29	4.56	45.85	74.00	-28.15	V	Peak
5491.000	40.10	5.85	45.95	74.00	-28.05	V	Peak
2413.000	45.75	-2.74	43.01	74.00	-30.99	Н	Peak
2971.000	52.66	-1.41	51.25	74.00	-22.75	Н	Peak
3961.000	42.39	1.43	43.82	74.00	-30.18	Н	Peak
4456.000	43.50	3.20	46.70	74.00	-27.30	Н	Peak
4933.000	40.96	4.76	45.72	74.00	-28.28	Н	Peak
5590.000	40.06	5.91	45.97	74.00	-28.03	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11g (CH Mid)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: August 10, 2015

Report No.: C150727Z04-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2575.000	44.55	-2.12	42.43	74.00	-31.57	V	Peak
2971.000	50.27	-1.41	48.86	74.00	-25.14	V	Peak
3655.000	42.02	0.13	42.15	74.00	-31.85	V	Peak
4177.000	41.73	2.21	43.94	74.00	-30.06	V	Peak
4870.000	41.60	4.56	46.16	74.00	-27.84	V	Peak
5365.000	40.03	5.63	45.66	74.00	-28.34	V	Peak
2575.000	46.07	-2.12	43.95	74.00	-30.05	Н	Peak
2971.000	50.24	-1.41	48.83	74.00	-25.17	Н	Peak
3934.000	42.28	1.31	43.59	74.00	-30.41	Н	Peak
4456.000	41.41	3.20	44.61	74.00	-29.39	Н	Peak
4879.000	40.94	4.59	45.53	74.00	-28.47	Н	Peak
6157.000	41.09	6.33	47.42	74.00	-26.58	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11g (CH High)

Ambient temperature: 24°C Relative humidity: 52% RH

Tested by: Jack Chen

Date: August 10, 2015

Report No.: C150727Z04-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2458.000	46.35	-2.49	43.86	74.00	-30.14	V	Peak
2971.000	52.83	-1.41	51.42	74.00	-22.58	V	Peak
3331.000	43.92	-0.80	43.12	74.00	-30.88	V	Peak
4456.000	44.85	3.20	48.05	74.00	-25.95	V	Peak
4933.000	40.90	4.76	45.66	74.00	-28.34	V	Peak
6319.000	39.89	6.60	46.49	74.00	-27.51	V	Peak
2458.000	47.72	-2.49	45.23	74.00	-28.77	Н	Peak
2971.000	49.45	-1.41	48.04	74.00	-25.96	Н	Peak
3142.000	43.27	-1.12	42.15	74.00	-31.85	Н	Peak
3961.000	41.94	1.43	43.37	74.00	-30.63	Н	Peak
4456.000	42.29	3.20	45.49	74.00	-28.51	Н	Peak
5365.000	40.54	5.63	46.17	74.00	-27.83	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Report No.: C150727Z04-RP1-1

Combine with Antenna 1 and Antenna 2

Test Mode: TX / IEEE 802.11n HT20 MHz (CH Low)

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: August 10, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2530.000	45.52	-2.21	43.31	74.00	-30.69	V	Peak
2971.000	51.34	-1.41	49.93	74.00	-24.07	V	Peak
3970.000	42.56	1.46	44.02	74.00	-29.98	V	Peak
4456.000	46.53	3.20	49.73	74.00	-24.27	V	Peak
6139.000	40.21	6.31	46.52	74.00	-27.48	V	Peak
6949.000	41.79	7.62	49.41	74.00	-24.59	V	Peak
1981.000	56.54	-5.12	51.42	74.00	-22.58	Н	Peak
2971.000	50.31	-1.41	48.90	74.00	-25.10	Н	Peak
4150.000	42.12	2.12	44.24	74.00	-29.76	Н	Peak
4456.000	42.38	3.20	45.58	74.00	-28.42	Н	Peak
5266.000	39.92	5.45	45.37	74.00	-28.63	Н	Peak
5851.000	39.98	6.02	46.00	74.00	-28.00	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Ambient temperature: 24°C Relative humidity: 52% RH

Test Mode: TX / IEEE 802.11n HT20 MHz (CH Mid) Tested by: Jack Chen

Report No.: C150727Z04-RP1-1

Date: August 10, 2015

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Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1972.000	49.17	-5.18	43.99	74.00	-30.01	V	Peak
2440.000	45.86	-2.59	43.27	74.00	-30.73	V	Peak
2971.000	50.97	-1.41	49.56	74.00	-24.44	V	Peak
3322.000	43.20	-0.82	42.38	74.00	-31.62	V	Peak
3709.000	43.25	0.36	43.61	74.00	-30.39	V	Peak
4456.000	45.48	3.20	48.68	74.00	-25.32	V	Peak
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2530.000	45.11	-2.21	42.90	74.00	-31.10	Н	Peak
2971.000	50.72	-1.41	49.31	74.00	-24.69	Н	Peak
3889.000	42.89	1.12	44.01	74.00	-29.99	Н	Peak
4456.000	42.91	3.20	46.11	74.00	-27.89	Н	Peak
5023.000	40.57	5.02	45.59	74.00	-28.41	Н	Peak
5356.000	40.48	5.61	46.09	74.00	-27.91	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / EEE 802.11n HT20 MHz (CH High)

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: August 10, 2015

Report No.: C150727Z04-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1972.000	49.35	-5.18	44.17	74.00	-29.83	V	Peak
2467.000	46.03	-2.44	43.59	74.00	-30.41	V	Peak
2971.000	53.05	-1.41	51.64	74.00	-22.36	V	Peak
3961.000	42.27	1.43	43.70	74.00	-30.30	V	Peak
4456.000	46.33	3.20	49.53	74.00	-24.47	V	Peak
4924.000	41.93	4.73	46.66	74.00	-27.34	V	Peak
2467.000	46.83	-2.44	44.39	74.00	-29.61	Н	Peak
2971.000	49.09	-1.41	47.68	74.00	-26.32	Н	Peak
3880.000	41.76	1.08	42.84	74.00	-31.16	Н	Peak
4348.000	41.75	2.81	44.56	74.00	-29.44	Н	Peak
4924.000	42.12	4.73	46.85	74.00	-27.15	Н	Peak
6085.000	41.34	6.22	47.56	74.00	-26.44	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Combine with Antenna 1 and Antenna 2

Test Mode: TX/ IEEE 802.11n HT40 MHz (CH Low)

Tested by: Jack Chen

Report No.: C150727Z04-RP1-1

Ambient temperature: 24°C Relative humidity: 52% RH Date: August 10, 2015

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2548.000	45.10	-2.17	42.93	74.00	-31.07	V	Peak
2971.000	49.90	-1.41	48.49	74.00	-25.51	V	Peak
3484.000	42.96	-0.55	42.41	74.00	-31.59	V	Peak
4105.000	42.06	1.96	44.02	74.00	-29.98	V	Peak
4456.000	42.94	3.20	46.14	74.00	-27.86	V	Peak
4951.000	41.37	4.82	46.19	74.00	-27.81	V	Peak
2971.000	48.48	-1.41	47.07	74.00	-26.93	Н	Peak
3709.000	43.04	0.36	43.40	74.00	-30.60	Н	Peak
3880.000	43.15	1.08	44.23	74.00	-29.77	Н	Peak
4708.000	40.85	4.03	44.88	74.00	-29.12	Н	Peak
4942.000	40.71	4.79	45.50	74.00	-28.50	Н	Peak
6706.000	39.59	7.22	46.81	74.00	-27.19	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11n HT40 MHz (CH Mid)

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: August 10, 2015

Report No.: C150727Z04-RP1-1

Antenna Pole Correction Remark Frequency Reading Result Limit Margin **Factor** (V/H) (dBuV/m) (dBuV/m) (MHz) (dBuV) (dB) (dB/m) 2539.000 44.87 74.00 ٧ -2.1942.68 -31.32 Peak 2971.000 51.76 -1.41 50.35 74.00 -23.65 ٧ Peak ٧ 3961.000 42.66 1.43 44.09 74.00 -29.91 Peak ٧ 4456.000 44.81 3.20 48.01 74.00 -25.99 Peak 5545.000 74.00 ٧ 39.65 5.89 45.54 -28.46 Peak V 6391.000 39.51 6.71 46.22 74.00 -27.78 Peak 2512.000 44.97 -2.2442.73 74.00 -31.27 Η Peak 48.71 2971.000 50.12 -1.4174.00 -25.29Н Peak 3709.000 42.06 42.42 74.00 Н 0.36 -31.58Peak Н 4141.000 41.51 2.09 43.60 74.00 -30.40 Peak 4942.000 40.44 4.79 45.23 74.00 -28.77 Н Peak 5842.000 40.77 6.01 46.78 74.00 -27.22 Н Peak

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX/ IEEE 802.11n HT40 MHz (CH High)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: August 10, 2015

Report No.: C150727Z04-RP1-1

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Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2575.000	44.38	-2.12	42.26	74.00	-31.74	V	Peak
2971.000	52.24	-1.41	50.83	74.00	-23.17	V	Peak
3961.000	42.00	1.43	43.43	74.00	-30.57	V	Peak
4456.000	44.18	3.20	47.38	74.00	-26.62	V	Peak
5464.000	39.77	5.81	45.58	74.00	-28.42	V	Peak
5671.000	40.03	5.94	45.97	74.00	-28.03	V	Peak
1981.000	55.94	-5.12	50.82	74.00	-23.18	Н	Peak
2512.000	44.97	-2.24	42.73	74.00	-31.27	Н	Peak
2971.000	50.12	-1.41	48.71	74.00	-25.29	Н	Peak
3898.000	42.00	1.16	43.16	74.00	-30.84	Н	Peak
4519.000	40.82	3.41	44.23	74.00	-29.77	Н	Peak
5491.000	40.10	5.85	45.95	74.00	-28.05	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).