FCC 47 CFR PART 15 SUBPART C AND ANSI C63.10:2009 TEST REPORT

For

Wi-Fi Baby Camera

Model: DCS-855L, DCS-855LA1

Trade Name: D-Link

Issued for

D-Link Corporation

No.289, Sinhu 3rd Rd., Neihu District, Taipei City 114, Taiwan, R.O.C.

Issued by

Compliance Certification Services Inc. Hsinchu Lab.

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Issued Date: September 02, 2014





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Report No.: T140620S05-RP1

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	08/20/2014	Initial Issue	All Page 83	Michelle Chiu
01	01 09/02/2014 Revised Product Name		P.1 & P.4-6 & P.50-59 & P.77-78	Gloria Chang

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1. TEST REPORT CERTIFICATION

Applicant : D-Link Corporation

Address : No.289, Sinhu 3rd Rd., Neihu District, Taipei City 114,

Taiwan, R.O.C.

Equipment Under Test: Wi-Fi Baby Camera

Model : DCS-855L, DCS-855LA1

Trade Name : D-Link

Tested Date : June 03 ~ July17, 2014

APPLICABLE STANDARD			
Standard	Test Result		
FCC Part 15 Subpart C AND ANSI C63.10:2009	PASS		

WE HEREBY CERTIFY THAT: The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Sh Lu

Sr. Engineer

Reviewed by:

Gundam Lin Sr. Engineer

2. EUT DESCRIPTION

Product Name	Wi-Fi Baby Camera		
Model Number	DCS-855L, DCS-855LA1		
Identify Number	T140620S05		
Received Date	June 03, 2014		
Frequency Range	IEEE 802.11b/g, 802.11gn HT20 : 2412MHz ~ 2462MHz		
	IEEE 802.11b : 24.56 dBm (0.2858W)		
Transmit Power	IEEE 802.11g : 27.75 dBm (0.5957W)		
	IEEE 802.11gn HT20 : 27.30 dBm (0.5370W)		
Channel Spacing	IEEE 802.11b/g, 802.11gn HT20 : 5MHz		
Channel Number	IEEE 802.11b/g, 802.11gn HT20 : 11 Channels		
	IEEE 802.11b : 11, 5.5, 2, 1 Mbps		
Transmit Data Rate	IEEE 802.11g : 54, 48, 36, 24, 18, 12, 9, 6 Mbps		
	IEEE 802.11gnHT20: 72.2, 65, 58.5, 57.8, 52, 43.3, 39, 28.9, 26, 21.7, 19.5, 14.4, 13, 7.2, 6.5Mbps		
	IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK)		
Type of Modulation	IEEE 802.11g : OFDM (64QAM, 16QAM, QPSK, BPSK)		
Type or modulation	IEEE 802.11gn HT20 : OFDM (64QAM, 16QAM, QPSK, BPSK)		
Antenna Type	PCB Antenna, Antenna Gain 2.88 dBi		
Power Rating	5Vdc		
Test Voltage	120Vac, 60Hz		
DC Power Cable Type	Non-shielded cable 3m (Non-detachable)		
I/O Port	Micro SD Card Port × 1, Power Port × 1		

Power Adapter:

No.	Manufacturer	Model No.	Power Input	Power Output
1	APD	WB-10E05R	100-240Vac , 50-60Hz , 0.4A Max	5Vdc, 2A

Remark:

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- 2. For more details, please refer to the User's manual of the EUT.
- 3. This submittal(s) (test report) is intended for FCC ID: KA2CS855LA1 filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.
- 4. The model DCS-855L, DCS-855LA1 was considered the main model for testing.

3. DESCRIPTION OF TEST MODES

The EUT (Wi-Fi Baby Camera) had been tested under operating condition.

IEEE 802.11 b/g, 802.11gn HT20 mode: 1TX1RX.

Conducted Emission / Radiated Emission Test (Below 1 GHz)

1. The following test modes were scanned during the preliminary test:

No.	Pre-Test Mode
1	Normal Operating (Full Function)

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test Mode				
F.m.inning	Radiated Emission	Named Operation (Full Function)		
Emission	Conducted Emission	Normal Operating (Full Function)		

Remark : Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

Conducted / Radiated Emission Test (Above 1 GHz)

IEEE 802.11b, 802.11g, 802.11gn HT20 mode

The EUT had been tested under operating condition.

There are three channels have been tested as following:

Channel	Frequency (MHz)	
Low	2412	
Middle	2437	
High	2462	

IEEE 802.11b mode: 1Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11g mode: 6Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11gn HT20 mode: 6.5Mbps data rate (worst case) were chosen for full testing.

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2009 and FCC CFR 47, 15.207, 15.209 and 15.247.

5. FACILITIES AND ACCREDITATION

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

NO. 989-1 Wen Shan Rd., Shang Shan Village, Qionglin Shiang Hsinchu County 30741, Taiwan, R.O.C

The sites are constructed in conformance with the requirements of ANSI C63.10:2009 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.

5.2 ACCREDITATIONS

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

Taiwan TAF

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

Canada INDUSTRY CANADA
Japan VCCI
Taiwan BSMI
USA FCC MRA

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

Remark: FCC Designation Number TW1027.

5.3 MEASUREMENT UNCERTAINTY

The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2.

PARAMETER	UNCERTAINTY
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 30 to 1000 MHz	+/- 3.97
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 1 to 18GHz	+/- 3.58
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 18 to 26 GHz	+/- 3.59
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 26 to 40 GHz	+/- 3.81
Conducted Emission (Mains Terminals), 9kHz to 30MHz	+/- 2.48

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

Consistent with industry standard (e.g. CISPR 22, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.

6. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

No.	. Product Manufacturer		Model No.	Serial No.
1	Notebook PC	HP	ProBook 4421s	CNF03242PJ
2	Mirco SD	Sandisk	SDSDM-1024	

No.	Signal Cable Description
1	Non-shielded RJ-45 cable, 12m × 1(console for RF control)

SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

EUT OPERATING CONDITION

RF Mode:

- 1. EUT & peripherals setup diagram is shown in appendix setup photos.
- 2. EUT link console fixture with LAN.
- 3. Console fixture link to notebook PC.
- 4. Run HyperTerminal-→Transfer mode : 38400→ Enter the command(1) TX Mode :
 - → Tx Data Rate: 1Mbps Bandwidth 20 (IEEE 802.11b mode)
 6Mbps Bandwidth 20 (IEEE 802.11g mode)
 6.5Mbps Bandwidth 20 (IEEE 802.11gn HT20 mode)
 - ⇒ Power control

IEEE 802.11b Channel Low (2412MHz) TX Power 37
Key in-> # ate-tool tx 100000000 0 1 91 0 0 1 37
IEEE 802.11b Channel Mid (2437MHz) TX Power 43
Key in-> # ate-tool tx 100000000 0 1 91 0 0 6 43
IEEE 802.11b Channel High (2462MHz) TX Power 43
Key in-> # ate-tool tx 100000000 0 1 91 0 0 11 43
IEEE 802.11g Channel Low (2412MHz) TX Power 30
Key in-> # ate-tool tx 100000000 0 1 91 0 1 1 30
IEEE 802.11g Channel Mid (2437MHz) TX Power 39
Key in-> # ate-tool tx 100000000 0 1 91 0 1 6 39
IEEE 802.11g Channel High (2462MHz) TX Power 33
Key in-> # ate-tool tx 100000000 0 1 91 0 1 11 33

IEEE 802.11gn HT20 Channel Low (2412MHz) TX Power 31 Key in-> # ate-tool tx 100000000 0 1 91 0 2 1 31 IEEE 802.11gn HT20 Channel Mid (2437MHz) TX Power 39 Key in-> # ate-tool tx 100000000 0 1 91 0 2 6 39 IEEE 802.11gn HT20 Channel High (2462MHz) TX Power 34 Key in-> # ate-tool tx 100000000 0 1 91 0 2 11 34

- 5. All of the functions are under run.
- 6. Start test.

Normal Mode:

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

- 1. EUT & peripherals setup diagram is shown in appendix setup photos.
- 2. Notebook link to EUT by WiFi.
- 3. All of the functions are under run (Web display video).
- 4. Start test.

7. FCC PART 15.247 REQUIREMENTS

7.1 6dB BANDWIDTH

LIMITS

§ 15.247(a) (2) For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

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TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2015

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

TEST SETUP



TEST PROCEDURE

- 1. The transmitter output was connected to a spectrum analyzer.
- 2. Set RBW = 100 kHz.
- 3. Set the video bandwidth (VBW) \geq 3 x RBW.
- 4. Detector = Peak.
- 5. Trace mode = max hold.
- 6. Sweep = auto couple.
- 7. Allow the trace to stabilize.
- 8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	9.590	500	PASS
Middle	2437	10.060	500	PASS
High	2462	9.555	500	PASS

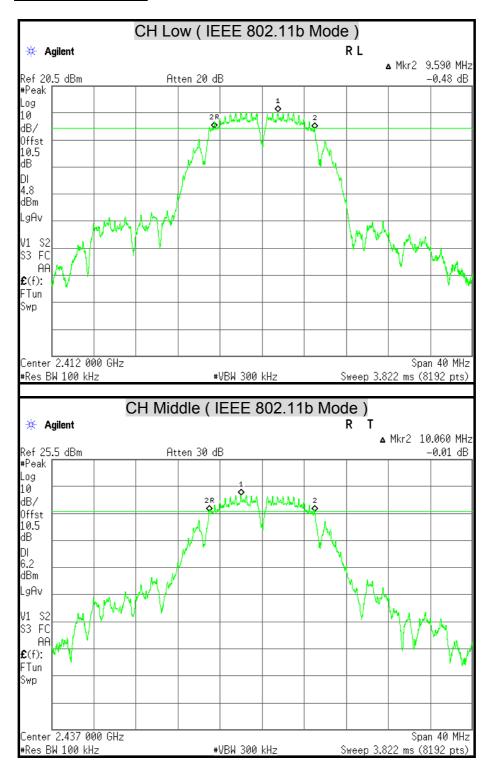
IEEE 802.11g Mode

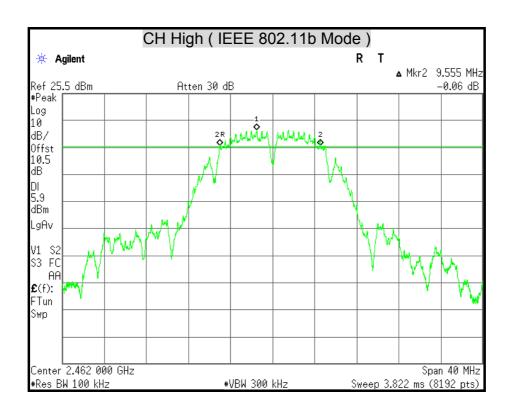
in the second se					
Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail	
Low	2412	16.340	500	PASS	
Middle	2437	16.325	500	PASS	
High	2462	16.355	500	PASS	

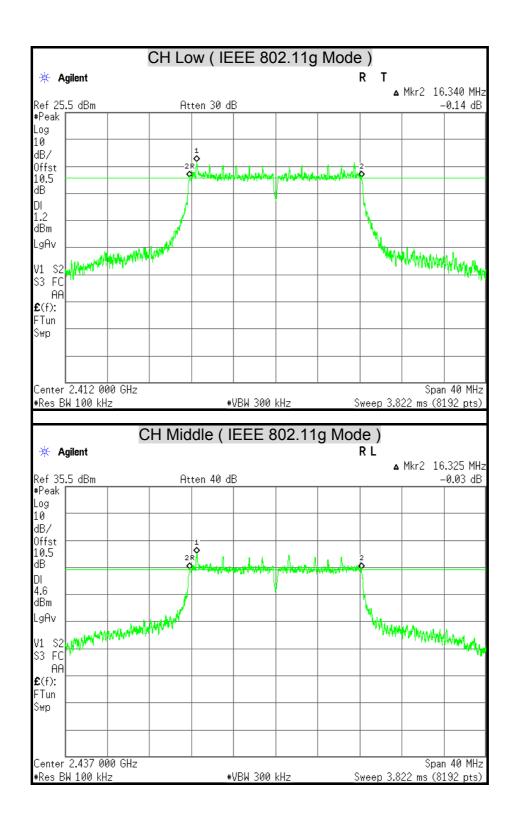
IEEE 802.11gn HT20 Mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	17.065	500	PASS
Middle	2437	16.810	500	PASS
High	2462	17.135	500	PASS

6dB BANDWIDTH

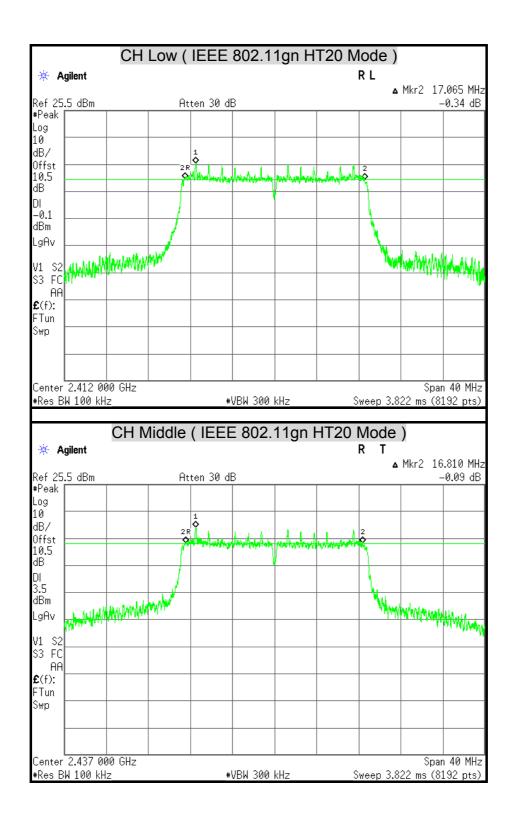






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CH High (IEEE 802.11g Mode) * Agilent ▲ Mkr2 16.355 MHz Ref 25.5 dBm Atten 30 dB -0.23 dB #Peak Log 10 dB/ 0ffst 10.5 ďΒ DI 2.0 dBm Appropriate to the propriate to the party LgAv S3 FC AΑ **£**(f): FTun Swp Center 2.462 000 GHz Span 40 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 3.822 ms (8192 pts)



Report No.: T140620S05-RP1

CH High (IEEE 802.11gn HT20 Mode) R L * Agilent ▲ Mkr2 17.135 MHz Ref 25.5 dBm Atten 30 dB -0.13 dB #Peak Log 10 dB/ 0ffst 10.5 dΒ DΙ 0.9 V1 S2 dBm AΑ **£**(f): FTun Swp Center 2.462 000 GHz Span 40 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 3.822 ms (8192 pts)

7.2 MAXIMUM PEAK OUTPUT POWER

LIMITS

§ 15.247(b) The maximum peak output power of the intentional radiator shall not exceed the following :

§ 15.247(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands : 1 watt.

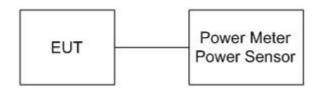
§ 15.247(b) (4) Except as shown in paragraphs (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Power Meter	Anritsu	ML2495A	1149001	12/06/2014
Power Sensor	Anritsu	MA2411B	1126148	12/06/2014

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

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to the power meter. The power meter is set to the peak power detection.

TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency	Peak Power		Peak Pov	wer Limit	Pass / Fail
	(MHz)	(dBm)	(W)	(dBm)	(W)	
Low	2412	23.08	0.2032	30	1	PASS
Middle	2437	24.56	0.2858	30	1	PASS
High	2462	23.89	0.2449	30	1	PASS

Remark:

- 1. At finial test to get the worst-case emission at 1Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11g Mode

Channel	Channel Frequency	Peak Power		Peak Pov	wer Limit	Pass / Fail
	(MHz)	(dBm)	(W)	(dBm)	(W)	
Low	2412	24.80	0.3020	30	1	PASS
Middle	2437	27.75	0.5957	30	1	PASS
High	2462	25.85	0.3846	30	1	PASS

Remark:

- 1. At finial test to get the worst-case emission at 6Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11gn HT20 Mode

Channel	Channel Frequency	Peak Power		Peak Pov	wer Limit	Pass / Fail
	(MHz)	(dBm)	(W)	(dBm)	(W)	
Low	2412	23.62	0.2301	30	1	PASS
Middle	2437	27.30	0.5370	30	1	PASS
High	2462	24.97	0.3141	30	1	PASS

Remark:

- 1. At finial test to get the worst-case emission at 6.5Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

7.3 AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Power Meter	ANRITSU	ML2495A	1149001	12/06/2014
Power Sensor	ANRITSU	MA2411B	1126148	12/06/2014

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

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to the power meter. The power meter is set to the average power detection.

TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	Average Power (dBm)
Low	2412	20.01
Middle	2437	21.61
High	2462	20.98

Remark:

- 1. At finial test to get the worst-case emission at 1Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11g Mode

ogouc						
Channel	Channel Frequency (MHz)	Average Power (dBm)				
Low	2412	17.22				
Middle	2437	19.97				
High	2462	18.20				

Remark:

- 1. At finial test to get the worst-case emission at 6Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11gn HT20 Mode

ELL GOZITTY III TITZO III GOGO							
Channel	Channel Frequency (MHz)	Average Power (dBm)					
Low	2412	16.17					
Middle	2437	19.57					
High	2462	17.06					

Remark:

- 1. At finial test to get the worst-case emission at 6.5Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

7.4 POWER SPECTRAL DENSITY

LIMITS

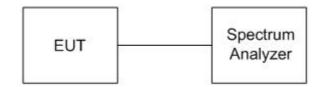
§ 15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2015

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

TEST SETUP



TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer.
- 2. Set analyzer center frequency to DTS channel center frequency.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- 5. Set the VBW \geq 3 x RBW.
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- 9. Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Minimum Limit (dBm)	Pass / Fail
Low	2412	-5.70	8	PASS
Middle	2437	-3.69	8	PASS
High	2462	-3.99	8	PASS

Remark:

- 1. At finial test to get the worst-case emission at 1Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11g Mode

Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Minimum Limit (dBm)	Pass / Fail
Low	2412	-9.53	8	PASS
Middle	2437	-7.07	8	PASS
High	2462	-8.72	8	PASS

Remark:

- 1. At finial test to get the worst-case emission at 6Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

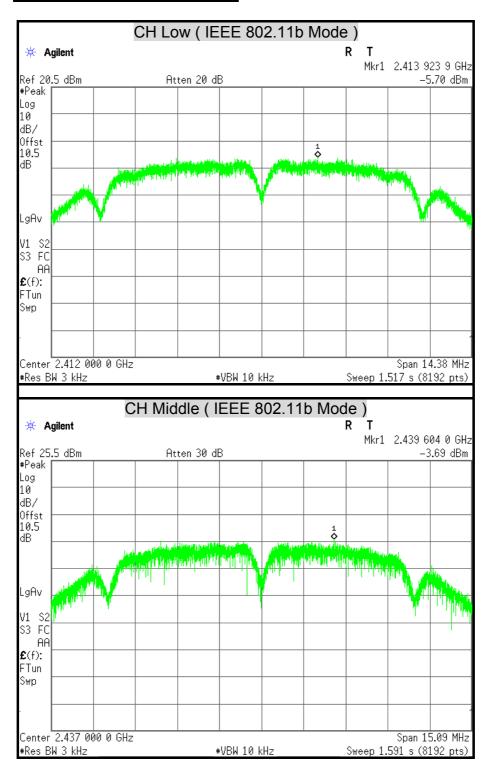
IEEE 802.11gn HT20 Mode

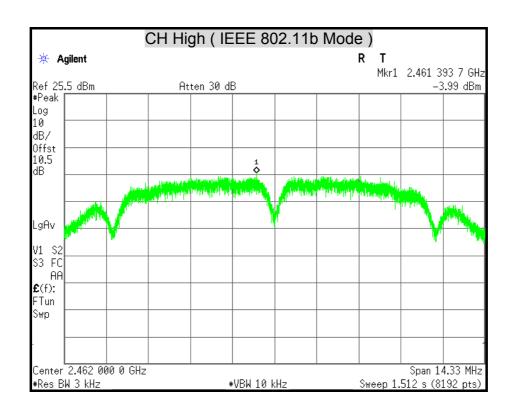
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Minimum Limit (dBm)	Pass / Fail
Low	2412	-11.32	8	PASS
Middle	2437	-7.32	8	PASS
High	2462	-9.60	8	PASS

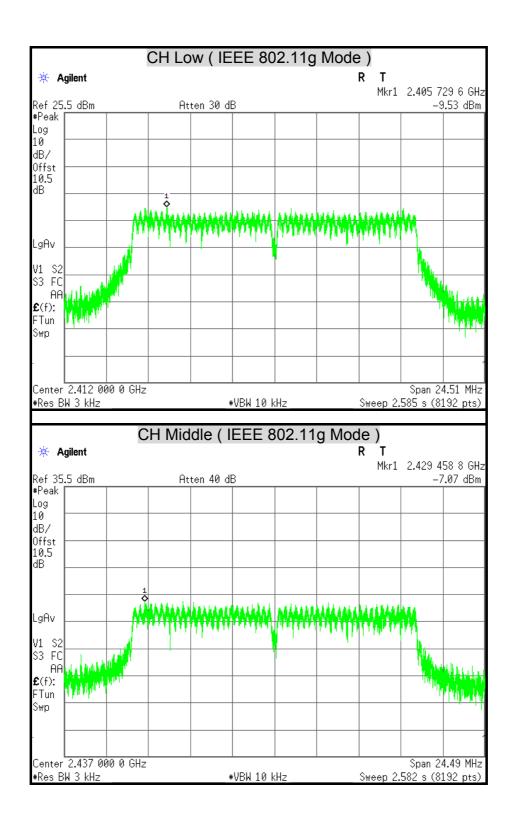
Remark:

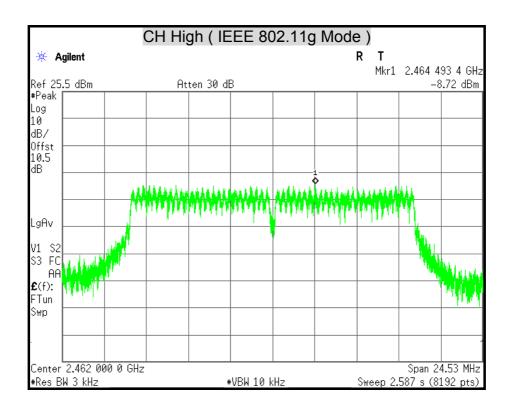
- 1. At finial test to get the worst-case emission at 6.5Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

POWER SPECTRAL DENSITY



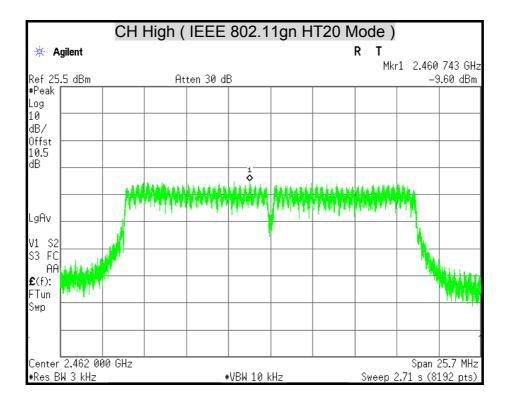






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CH Low (IEEE 802.11gn HT20 Mode) 🔆 Agilent Mkr1 2.418 880 GHz Ref 25.5 dBm Atten 30 dB -11.32 dBm #Peak Log 10 dB/ Offst 10.5 dΒ ╒╃╃╃╃╃╫╫╫╃╃╬╫╫╃╃╃╫╫╫╫╫ LgAv S3 FC AΑ **£**(f): FTun Swp Span 25.6 MHz Center 2.412 000 GHz Sweep 2.699 s (8192 pts) #Res BW 3 kHz #VBW 10 kHz CH Middle (IEEE 802.11gn HT20 Mode) 🔅 Agilent RLMkr1 2.443 925 GHz Ref 25.5 dBm Atten 30 dB -7.32 dBm #Peak Log 10 dB/ Offst 10.5 dΒ LgAv S3 FC AA MAAAA **£**(f): FTun Swp Center 2.437 000 GHz Span 25.21 MHz Sweep 2.659 s (8192 pts) #Res BW 3 kHz #VBW 10 kHz



7.5 CONDUCTED SPURIOUS EMISSION

LIMITS

§ 15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the and that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. 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 § 15.205(c)).

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2015

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

TEST SETUP



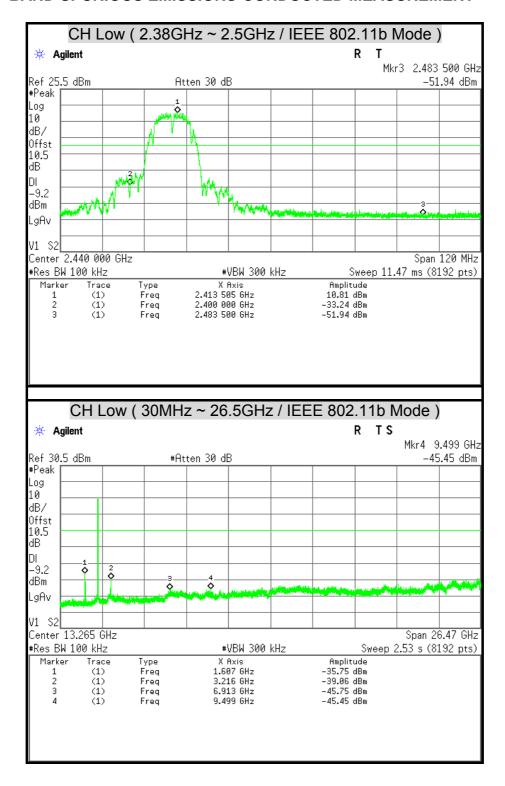
TEST PROCEDURE

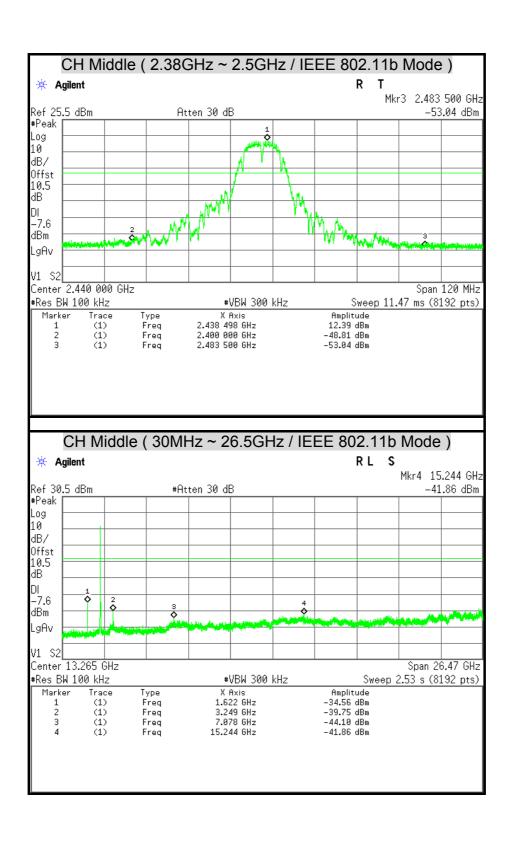
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

The spectrum from 30 MHz to 26.5 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

TEST RESULTS

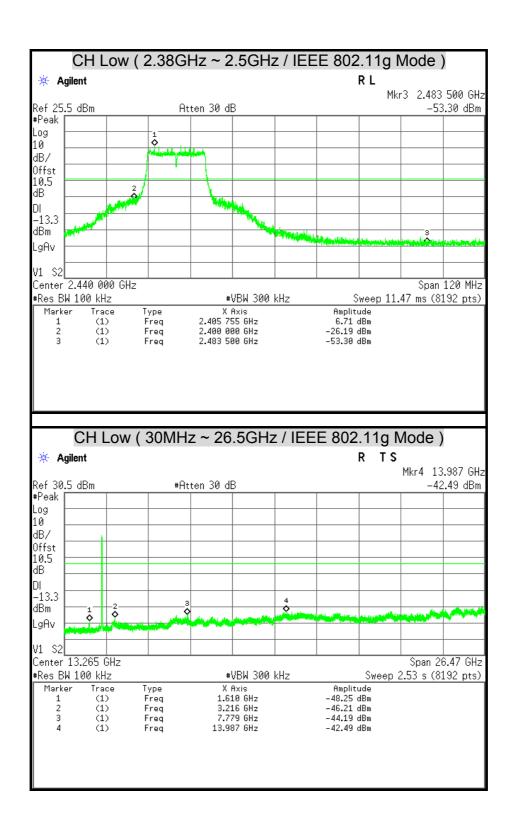
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

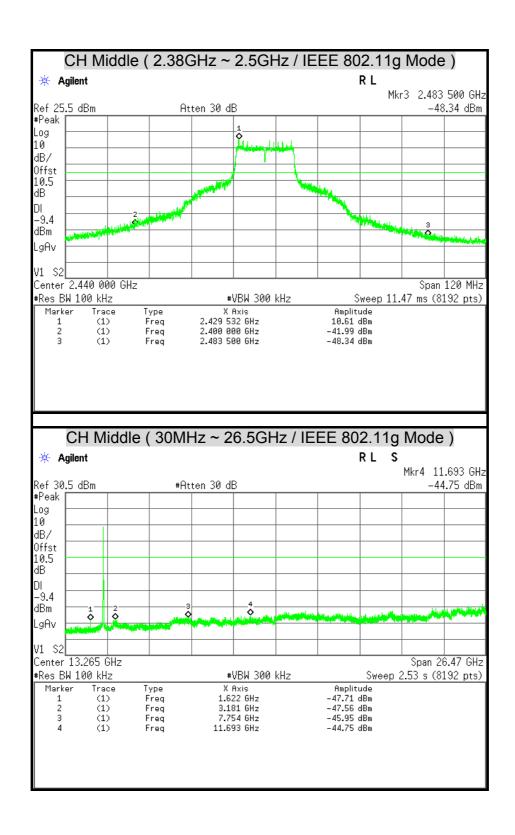




Report No.: T140620S05-RP1

CH High (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode) * Agilent Mkr3 2.483 500 GHz Ref 25.5 dBm Atten 30 dB -38.30 dBm #Peak Log 10 dB/ Offst 10.5 dΒ DI -8.3 dBm LgAv Center 2.440 000 GHz Span 120 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 11.47 ms (8192 pts) X Axis 2.463 506 GHz Type Freq Amplitude Marker Trace (1) (1) 2.400 000 GHz -52.31 dBm 2.483 500 GHz -38.30 dBm (1) Freq CH High (30MHz ~ 26.5GHz / IEEE 802.11b Mode) RL S 🔆 Agilent Mkr4 15.002 GHz Ref 30.5 dBm #Atten 30 dB -42.18 dBm #Peak Log 10 dB/ Offst 10.5 dΒ DΙ -8.3 dBm LgAv V1 S2 Center 13.265 GHz Span 26.47 GHz Sweep 2.53 s (8192 pts) #Res BW 100 kHz #VBW 300 kHz Marker Trace Туре X Axis Amplitude 1.643 GHz Freq -39.84 dBm 3.284 GHz 7.175 GHz -44.52 dBm (1) Freq (1) -45.22 dBm Freq (1) 15.002 GHz -42.18 dBm





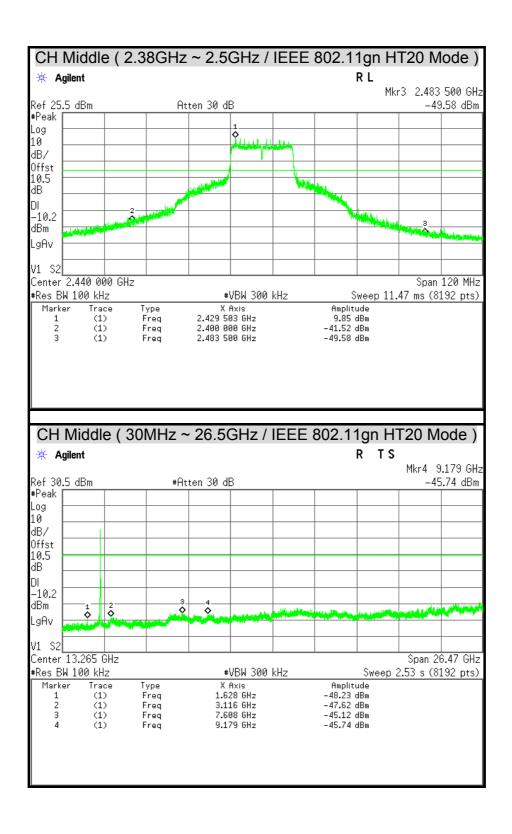
Report No.: T140620S05-RP1

CH High (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode) * Agilent Mkr3 2.483 500 GHz Ref 25.5 dBm Atten 30 dB -32.95 dBm #Peak Log 10 dB/ Offst 10.5 dΒ DΙ -12.2dBm LgAv Center 2.440 000 GHz Span 120 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 11.47 ms (8192 pts) X Axis 2.455 742 GHz Amplitude 7.76 dBm Type Freq Marker Trace (1) 2.400 000 GHz 2.483 500 GHz (1) -50.39 dBm -32.95 dBm (1) Freq CH High (30MHz ~ 26.5GHz / IEEE 802.11g Mode) TS 🔆 Agilent Mkr4 15.018 GHz Ref 30.5 dBm #Atten 30 dB -41.36 dBm #Peak Log 10 dB/ Offst 10.5 dΒ DΙ -12.2 dBm LgAv V1 S2 Center 13.265 GHz Span 26.47 GHz Sweep 2.53 s (8192 pts) #Res BW 100 kHz #VBW 300 kHz Marker Trace Туре X Axis Amplitude 1.636 GHz 3.284 GHz 7.065 GHz Freq -51.92 dBm -45.30 dBm (1) Freq (1) -45.37 dBm Freq (1) 15.018 GHz -41.36 dBm

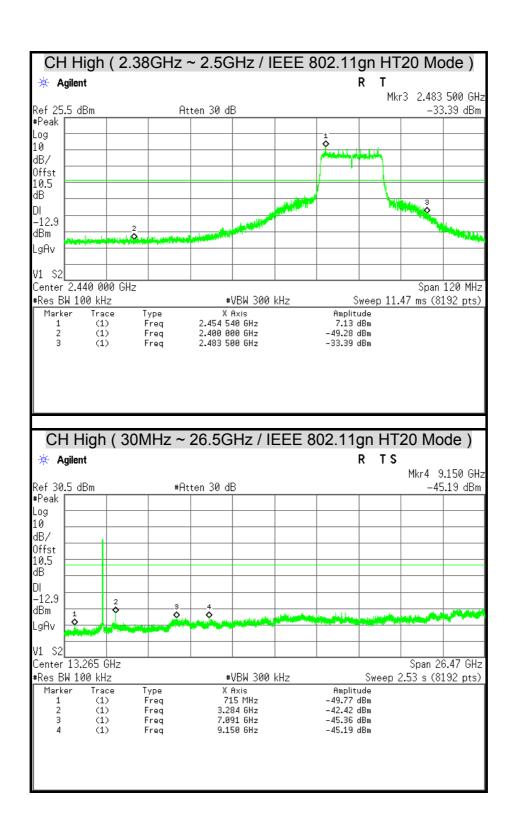
Report No.: T140620S05-RP1

CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT20 Mode) R L 🔆 Agilent Mkr3 2.483 500 GHz Ref 25.5 dBm Atten 30 dB -52.64 dBm #Peak Log 10 dB/ Offst 10.5 dΒ DΙ -14.1dBm LgAv Center 2.440 000 GHz Span 120 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 11.47 ms (8192 pts) X Axis 2.404 510 GHz Type Freq Amplitude Marker Trace (1) (1) 2.400 000 GHz -31.13 dBm 2.483 500 GHz -52.64 dBm (1)Freq CH Low (30MHz ~ 26.5GHz / IEEE 802.11gn HT20 Mode) * Agilent RL S Mkr4 8.652 GHz Ref 30.5 dBm #Atten 30 dB -45.69 dBm #Peak Log 10 dB/ Offst 10.5 dΒ DΙ -14.1dBm LgAv V1 S2 Center 13.265 GHz Span 26.47 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.53 s (8192 pts) Marker Trace X Axis Amplitude Туре 1.655 GHz Freq -51.06 dBm 3.216 GHz -46.99 dBm (1) Freq (1) 7.030 GHz -44.86 dBm Freq (1) 8.652 GHz -45.69 dBm

Report No.: T140620S05-RP1



Report No.: T140620S05-RP1



7.6 RADIATED EMISSION

LIMITS

(1) According to § 15.205 (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	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 -1710	10.6 -12.7
6.26775 - 6.26825	108 -121.94	1718.8 - 1722.2	13.25 -13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 – 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 -16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 -335.4	3600 - 4400	(²)
13.36 - 13.41			

Remark:

(2) According to § 15.205 (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 is 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.

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

^{2. &}lt;sup>2</sup> Above 38.6

(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 :

Report No.: T140620S05-RP1

Frequency (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) According to § 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST EQUIPMENT

Radiated Emission / 966Chamber_B

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY46180323	04/15/2015
EMI Test Receiver	ROHDE & SCHWARZ	ESCS 30	835418/008	10/16/2014
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-778	09/12/2014
Bi-log Antenna	SCHWARZBECK	VULB 9168	9168-250	09/12/2014
Double-Ridged Waveguide Horn	ETS-LINDGREN	3117	00078733	12/05/2014
Horn Antenna	COM-POWER	AH-840	03077	12/18/2014
Pre-Amplifier	Agilent	8447D	2944A10052	07/15/2015
Pre-Amplifier	Agilent	8449B	3008A01916	07/15/2015
LOOP Antenna	EMCO	6502	8905-2356	08/20/2014
Notch Filters Band Reject	Micro-Tronics	BRM05702-01	026	N.C.R

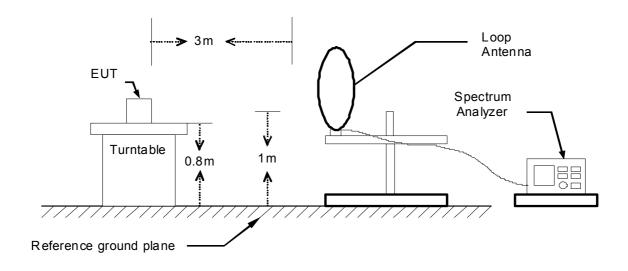
Remark: 1. Each piece of equipment is scheduled for calibration once a year.

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

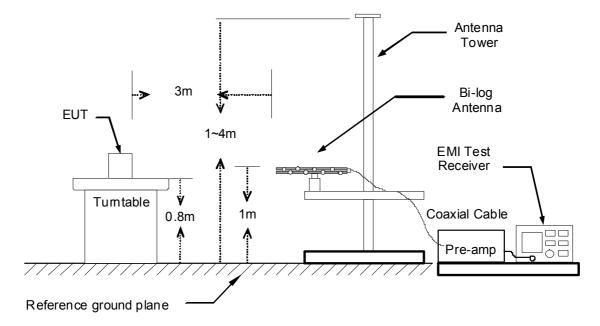
TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission below 1GHz.

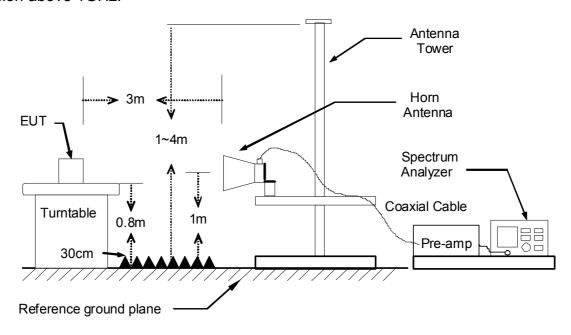
9kHz ~ 30MHz



30MHz ~ 1GHz



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

- 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
- 3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Remark:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

TEST RESULTS

Below 1 GHz (9kHz ~ 30MHz)

No emission found between lowest internal used/generated frequency to 30MHz.

Below 1 GHz (30MHz ~ 1GHz)

Product Name	Wi-Fi Baby Camera	Test By	Waternil Guan
Test Model	DCS-855L, DCS-855LA1	Test Date	2014/06/05
Test Mode	Normal Operating (Full Function)	Temp. & Humidity	26°C, 50%

	966 Chamber_B at 3Meter / Horizontal										
Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	actor (dRuV/m) (dRuV/m)		Margin (dB)	Remark					
133.79	38.53	-14.61	23.93	43.50	-19.57	Peak					
160.95	40.05	-13.46	26.59	43.50	-16.91	Peak					
399.57	47.11	-9.94	37.17	46.00	-8.83	Peak					
450.01	41.68	-8.85	32.83	46.00	-13.17	Peak					
480.08	42.78	-8.46	34.32	46.00	-11.68	Peak					
749.74	36.14	-3.58	32.57	46.00	-13.43	Peak					
807.94	40.42	-2.94	37.49	46.00	-8.51	Peak					
960.23	38.95	-0.40	38.55	54.00	-15.45	Peak					
		966 Chamb	er_B at 3Met	ter / Vertical							
Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark					
38.73	49.85	-14.61	35.23	40.00	-4.77	Peak					
126.03	48.99	-15.45	33.53	43.50	-9.97	Peak					
133.79	49.63	-14.61	35.02	43.50	-8.48	Peak					
216.24	44.77	-15.59	29.18	46.00	-16.82	Peak					
399.57	42.67	-9.94	32.73	46.00	-13.27	Peak					
450.01	41.17	-8.85	32.32	46.00	-13.68	Peak					
480.08	43.15	-8.46	34.69	46.00	-11.31	Peak					

Remark:

811.82

- 1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
- 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.

35.19

46.00

-10.81

Peak

- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) PreAmp.Gain (dB)
- 4. Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)
- 5. Margin (dB) = Remark result (dBuV/m) Quasi-peak limit (dBuV/m).

-2.86

38.05

Above 1 GHz

Product Name	Wi-Fi Baby Camera	Test By	Waternil Guan
Test Model	DCS-855L, DCS-855LA1	Test Date	2014/07/08
Test Mode	IEEE 802.11b TX / CH Low	Temp. & Humidity	28°C, 58%

		96	6 Chambe	er_B at 3N	Meter / Ho	rizontal			
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1608.00	53.02		-1.88	51.14		74.00	54.00	-2.86	Peak
1932.00	48.97		1.18	50.15		74.00	54.00	-3.85	Peak
2092.00	47.60		2.00	49.60		74.00	54.00	-4.40	Peak
3210.00	51.01	47.64	4.25	55.26	51.89	74.00	54.00	-2.11	AVG
3870.00	41.14		5.50	46.64		74.00	54.00	-7.36	Peak
4830.00	40.42		8.09	48.51		74.00	54.00	-5.49	Peak
		9	66 Chaml	ber_B at 3	3Meter / V	ertical			
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1608.00	49.25		-1.88	47.37		74.00	54.00	-6.63	Peak
2048.00	47.22		1.92	49.14		74.00	54.00	-4.86	Peak
2568.00	47.83		2.98	50.81		74.00	54.00	-3.19	Peak
3210.00	45.07		4.25	49.32		74.00	54.00	-4.68	Peak
3915.00	41.17		5.63	46.79		74.00	54.00	-7.21	Peak

Remark:

4830.00

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

8.09

3. 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.

74.00

54.00

-2.19

Peak

51.81

- 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. Result = Reading + Correction Factor

43.72

Margin = Result - Limit

 $Remark\ Peak = Result(PK) - Limit(AV)$

Product Name	Wi-Fi Baby Camera	Test By	Waternil Guan
Test Model	DCS-855L, DCS-855LA1	Test Date	2014/07/08
Test Mode	IEEE 802.11b TX / CH Middle	Temp. & Humidity	28°C, 58%

	966 Chamber_B at 3Meter / Horizontal												
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark				
1624.00	51.78		-1.73	50.05		74.00	54.00	-3.95	Peak				
1994.00	48.50		1.76	50.26		74.00	54.00	-3.74	Peak				
2672.00	47.73		3.25	50.97		74.00	54.00	-3.03	Peak				
3255.00	44.16		4.29	48.45		74.00	54.00	-5.55	Peak				
4410.00	40.28		7.13	47.41		74.00	54.00	-6.59	Peak				
4875.00	38.60		8.18	46.78		74.00	54.00	-7.22	Peak				
	966 Chamber_B at 3Meter / Vertical												
Frequency	Reading- PK	Reading- AV	Correction Factor	Result-PK	Result-AV		Limit-AV	Margin	Remark				

	966 Chamber_B at 3Meter / Vertical													
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PN	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark					
1200.00	50.20		-2.89	47.32		74.00	54.00	-6.68	Peak					
1666.00	49.07		-1.33	47.74		74.00	54.00	-6.26	Peak					
1974.00	48.12		1.57	49.69		74.00	54.00	-4.31	Peak					
3255.00	44.23		4.29	48.52		74.00	54.00	-5.48	Peak					
3990.00	40.65		5.83	46.48		74.00	54.00	-7.52	Peak					
4875.00	41.83		8.18	50.01		74.00	54.00	-3.99	Peak					

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. 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.
- 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. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

Product Name	Wi-Fi Baby Camera	Test By	Waternil Guan
Test Model	DCS-855L, DCS-855LA1	Test Date	2014/07/08
Test Mode	IEEE 802.11b TX / CH High	Temp. & Humidity	28°C, 58%

	966 Chamber_B at 3Meter / Horizontal												
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark				
1856.00	48.18	-	0.46	48.64	-	74.00	54.00	-5.36	Peak				
2068.00	48.39	-	1.95	50.35	-	74.00	54.00	-3.65	Peak				
2536.00	47.83	-	2.90	50.74	-	74.00	54.00	-3.26	Peak				
3285.00	46.31	-	4.31	50.62	-	74.00	54.00	-3.38	Peak				
4410.00	40.05		7.13	47.18		74.00	54.00	-6.82	Peak				
4920.00	40.91		8.28	49.19		74.00	54.00	-4.81	Peak				

	966 Chamber_B at 3Meter / Vertical											
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)			Limit-AV (dBuV/m)	Margin (dB)	Remark			
1774.00	48.66		-0.31	48.34		74.00	54.00	-5.66	Peak			
2090.00	47.80		2.00	49.79		74.00	54.00	-4.21	Peak			
2344.00	48.70		2.50	51.20		74.00	54.00	-2.80	Peak			
3285.00	42.90		4.31	47.22		74.00	54.00	-6.78	Peak			
3600.00	42.04		4.76	46.80		74.00	54.00	-7.20	Peak			
4920.00	47.00	42.77	8.28	55.28	51.05	74.00	54.00	-2.95	AVG			

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. 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.
- 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. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

Product Name	Wi-Fi Baby Camera	Test By	Waternil Guan
Test Model	DCS-855L, DCS-855LA1	Test Date	2014/07/08
Test Mode	IEEE 802.11g TX / CH Low	Temp. & Humidity	28°C, 58%

	966 Chamber_B at 3Meter / Horizontal											
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark			
1466.00	49.80	-	-2.90	46.90	-	74.00	54.00	-7.10	Peak			
1696.00	48.23	-	-1.05	47.18	-	74.00	54.00	-6.82	Peak			
2000.00	49.71	-	1.82	51.53		74.00	54.00	-2.47	Peak			
3210.00	43.45	-	4.25	47.70		74.00	54.00	-6.30	Peak			
3855.00	40.80		5.46	46.27		74.00	54.00	-7.73	Peak			
4830.00	39.30		8.09	47.39		74.00	54.00	-6.61	Peak			

	966 Chamber_B at 3Meter / Vertical											
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark			
1390.00	50.11		-2.90	47.22		74.00	54.00	-6.78	Peak			
2022.00	48.08		1.86	49.94		74.00	54.00	-4.06	Peak			
2484.00	46.02		2.78	48.80		74.00	54.00	-5.20	Peak			
3210.00	42.13		4.25	46.38		74.00	54.00	-7.62	Peak			
3900.00	40.91		5.59	46.50		74.00	54.00	-7.50	Peak			
4815.00	39.28		8.06	47.33		74.00	54.00	-6.67	Peak			

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. 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.
- 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. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

Product Name	Wi-Fi Baby Camera	Test By	Waternil Guan
Test Model	DCS-855L, DCS-855LA1	Test Date	2014/07/08
Test Mode	IEEE 802.11g TX / CH Middle	Temp. & Humidity	28°C, 58%

	966 Chamber_B at 3Meter / Horizontal												
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark				
1614.00	50.18		-1.82	48.35		74.00	54.00	-5.65	Peak				
2390.00	70.75	50.51	2.59	73.34	53.10	74.00	54.00	-0.90	AVG				
2484.00	65.72	46.00	2.78	68.50	48.78	74.00	54.00	-5.22	AVG				
3255.00	45.15	-	4.29	49.44	1	74.00	54.00	-4.56	Peak				
4350.00	40.35	-	6.94	47.30	1	74.00	54.00	-6.70	Peak				
4785.00	40.65		8.00	48.64		74.00	54.00	-5.36	Peak				

	966 Chamber_B at 3Meter / Vertical											
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)			Limit-AV (dBuV/m)	Margin (dB)	Remark			
1616.00	49.51		-1.80	47.71		74.00	54.00	-6.29	Peak			
2390.00	67.31	48.33	2.59	69.90	50.92	74.00	54.00	-3.08	AVG			
2484.00	60.21	44.33	2.78	62.99	47.11	74.00	54.00	-6.89	AVG			
3255.00	43.65		4.29	47.94		74.00	54.00	-6.06	Peak			
4410.00	40.46		7.13	47.59		74.00	54.00	-6.41	Peak			
4860.00	40.55		8.15	48.70		74.00	54.00	-5.30	Peak			

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. 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.
- 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. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

Product Name	Wi-Fi Baby Camera	Test By	Waternil Guan
Test Model	DCS-855L, DCS-855LA1	Test Date	2014/07/08
Test Mode	IEEE 802.11g TX / CH High	Temp. & Humidity	28°C, 58%

	966 Chamber_B at 3Meter / Horizontal											
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark			
1600.00	49.34	-	-1.96	47.38	-	74.00	54.00	-6.62	Peak			
1770.00	48.07	-	-0.35	47.72	-	74.00	54.00	-6.28	Peak			
2548.00	48.92	-	2.93	51.85		74.00	54.00	-2.15	Peak			
3285.00	46.15	-	4.31	50.47		74.00	54.00	-3.53	Peak			
4425.00	40.90		7.18	48.08		74.00	54.00	-5.92	Peak			
4785.00	39.88		8.00	47.87		74.00	54.00	-6.13	Peak			

	966 Chamber_B at 3Meter / Vertical											
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)			Limit-AV (dBuV/m)	Margin (dB)	Remark			
1692.00	48.65		-1.09	47.56		74.00	54.00	-6.44	Peak			
2012.00	47.99		1.84	49.83		74.00	54.00	-4.17	Peak			
2342.00	52.19	39.70	2.50	54.69	42.20	74.00	54.00	-11.80	AVG			
3285.00	41.55		4.31	45.86		74.00	54.00	-8.14	Peak			
4020.00	41.14		5.92	47.07		74.00	54.00	-6.93	Peak			
4905.00	40.18		8.24	48.43		74.00	54.00	-5.57	Peak			

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. 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.
- 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. Result = Reading + Correction Factor

Margin = Result - Limit

 $Remark\ Peak = Result(PK) - Limit(AV)$

74.00

74.00

54.00

54.00

-6.68

-6.93

Peak

Peak

Product Name	Wi-Fi Baby Camera	Test By	Waternil Guan
Test Model	DCS-855L, DCS-855LA1	Test Date	2014/07/08
Test Mode	IEEE 802.11gn HT20 TX / CH Low	Temp. & Humidity	28°C, 58%

	966 Chamber_B at 3Meter / Horizontal										
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark		
1252.00	49.17		-2.89	46.28		74.00	54.00	-7.72	Peak		
1766.00	47.67		-0.39	47.28		74.00	54.00	-6.72	Peak		
2492.00	51.49	35.61	2.79	54.28	38.40	74.00	54.00	-15.60	AVG		
3210.00	43.44		4.25	47.69		74.00	54.00	-6.31	Peak		
4575.00	40.71		7.56	48.27		74.00	54.00	-5.73	Peak		
4800.00	39.70		8.03	47.72		74.00	54.00	-6.28	Peak		
		9	66 Chaml	ber_B at 3	3Meter / V	ertical					
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark		
1200.00	50.70		-2.89	47.81		74.00	54.00	-6.19	Peak		
1570.00	49.13		-2.24	46.89		74.00	54.00	-7.11	Peak		
2484.00	45.87		2.78	48.65		74.00	54.00	-5.35	Peak		
3210.00	42.72		4.25	46.98		74.00	54.00	-7.02	Peak		

Remark:

4125.00

4830.00

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

6.25

8.09

 Average test would be performed if the peak result were greater than the average limit.
 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.

47.32

47.07

- 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. Result = Reading + Correction Factor

41.07

38.98

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

Product Name	oduct Name Wi-Fi Baby Camera		Waternil Guan
Test Model	DCS-855L, DCS-855LA1	Test Date	2014/07/08
Test Mode	IEEE 802.11gn HT20 TX / CH Middle	Temp. & Humidity	28°C, 58%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)		Margin (dB)	Remark
1140.00	53.07		-2.89	50.18		74.00	54.00	-3.82	Peak
2390.00	68.76	46.54	2.59	71.35	49.13	74.00	54.00	-4.87	AVG
2484.00	64.69	43.28	2.78	67.47	46.06	74.00	54.00	-7.94	AVG
3255.00	48.20		4.29	52.49		74.00	54.00	-1.51	Peak
4080.00	40.96		6.11	47.07		74.00	54.00	-6.93	Peak
4860.00	39.74		8.15	47.90		74.00	54.00	-6.10	Peak
	966 Chamber_B at 3Meter / Vertical								
	Dooding	Dooding	Correction						

	966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark	
1596.00	48.41		-1.99	46.41		74.00	54.00	-7.59	Peak	
2390.00	66.88	44.60	2.59	69.47	47.19	74.00	54.00	-6.81	AVG	
2484.00	62.58	42.19	2.78	65.36	44.97	74.00	54.00	-9.03	AVG	
3255.00	44.89	-	4.29	49.18		74.00	54.00	-4.82	Peak	
4830.00	40.14		8.09	48.23		74.00	54.00	-5.77	Peak	
5070.00	39.57		8.56	48.13		74.00	54.00	-5.87	Peak	

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. 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.
- 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. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

Product Name	Wi-Fi Baby Camera	Test By	Waternil Guan
Test Model	DCS-855L, DCS-855LA1	Test Date	2014/07/08
Test Mode	IEEE 802.11gn HT20 TX / CH High	Temp. & Humidity	28°C, 58%

	966 Chamber_B at 3Meter / Horizontal								
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)		Margin (dB)	Remark
1730.00	48.89		-0.73	48.16		74.00	54.00	-5.84	Peak
1950.00	48.33		1.35	49.68		74.00	54.00	-4.32	Peak
2340.00	52.05	38.40	2.49	54.54	40.89	74.00	54.00	-13.11	AVG
3285.00	47.56		4.31	51.88		74.00	54.00	-2.12	Peak
3810.00	41.56		5.34	46.90		74.00	54.00	-7.10	Peak
4800.00	39.84		8.03	47.87		74.00	54.00	-6.13	Peak

	966 Chamber_B at 3Meter / Vertical								
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)			Limit-AV (dBuV/m)	Margin (dB)	Remark
1062.00	50.52		-2.88	47.63		74.00	54.00	-6.37	Peak
1920.00	47.74		1.06	48.80		74.00	54.00	-5.20	Peak
2356.00	51.85	37.74	2.52	54.37	40.26	74.00	54.00	-13.74	AVG
3285.00	42.59		4.31	46.91		74.00	54.00	-7.09	Peak
4755.00	40.21		7.94	48.15		74.00	54.00	-5.85	Peak
4920.00	39.84		8.28	48.12		74.00	54.00	-5.88	Peak

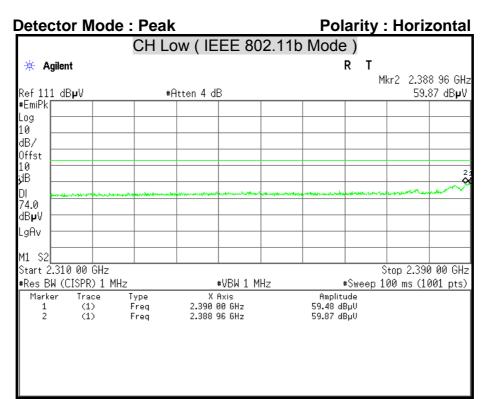
Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. 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.
- 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. Result = Reading + Correction Factor

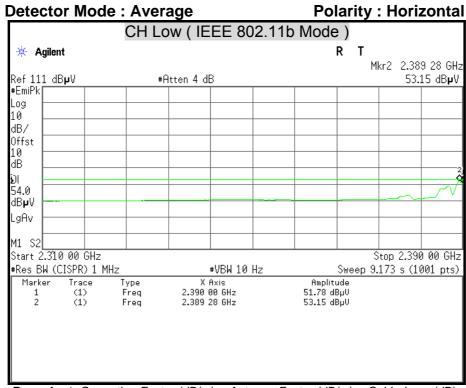
Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

Restricted Band Edges

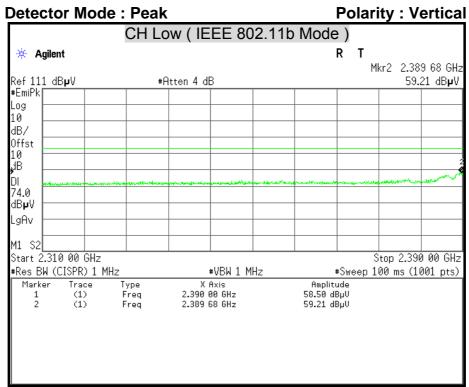


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

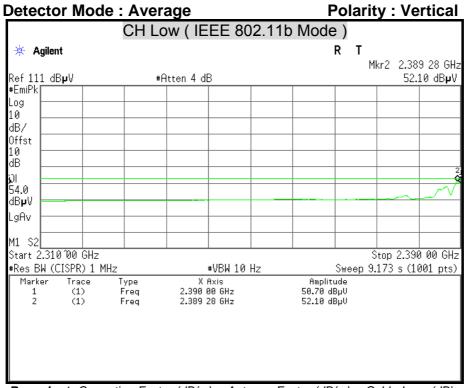


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)

^{2.} The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.

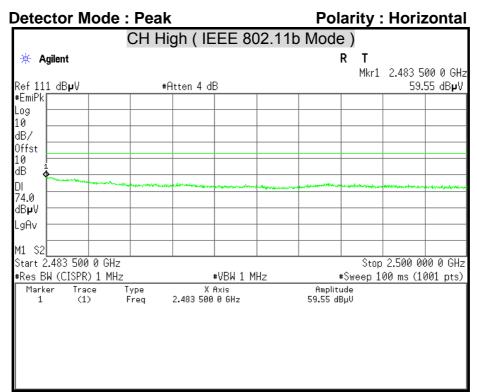


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

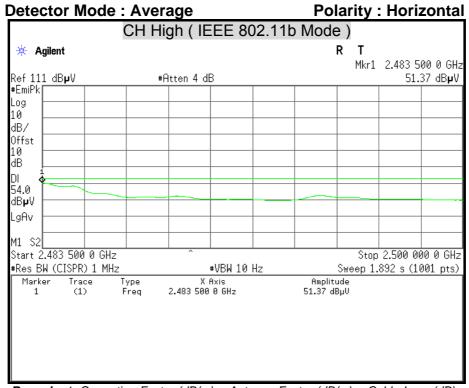


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

^{2.} The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.

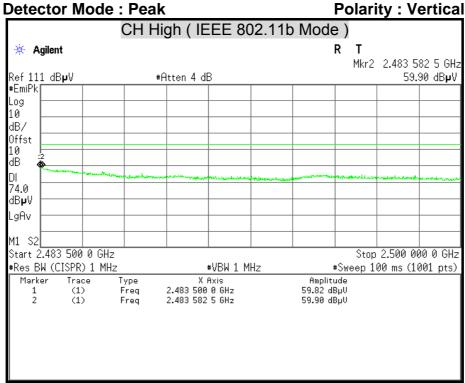


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

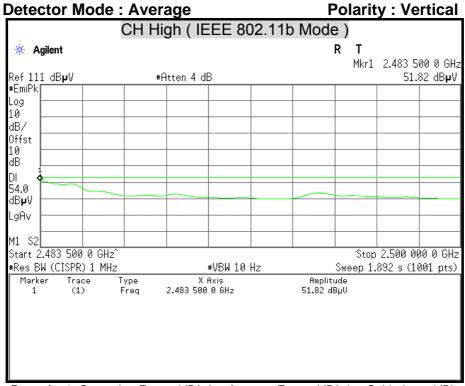


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

^{2.} The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.

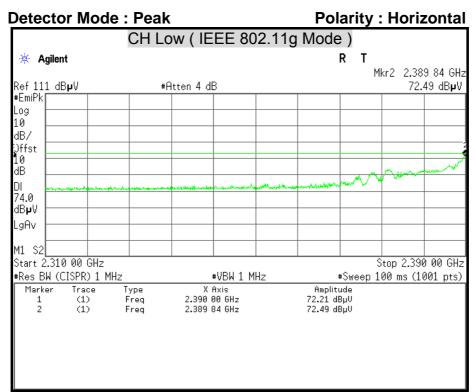


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

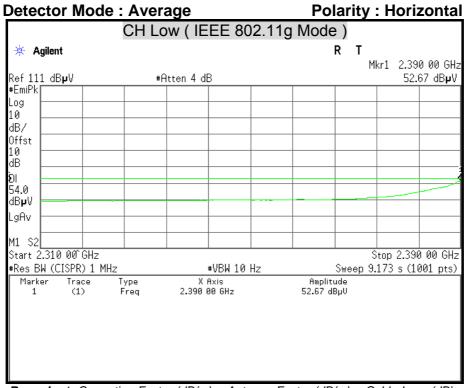


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

^{2.} The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.

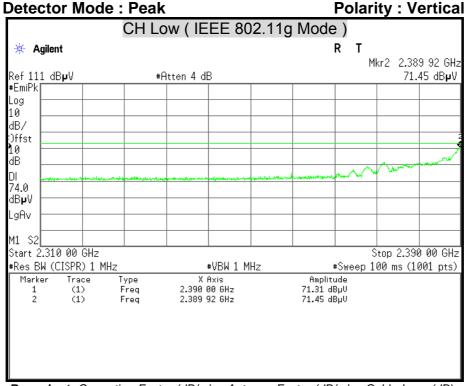


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

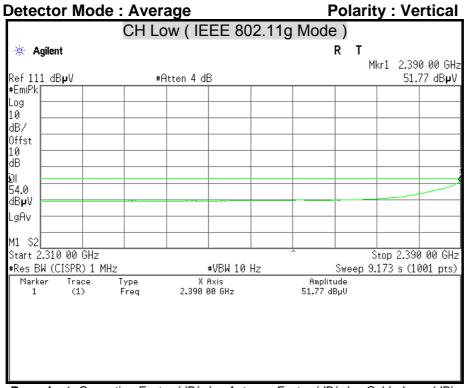


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

^{2.} The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.

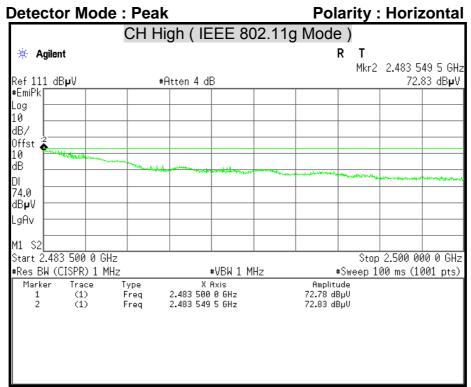


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

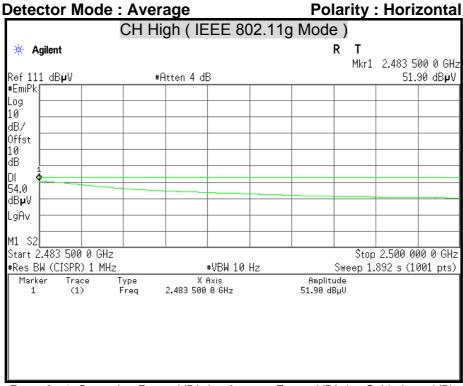


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

^{2.} The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.

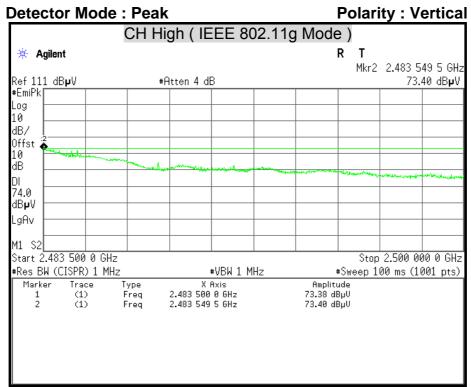


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

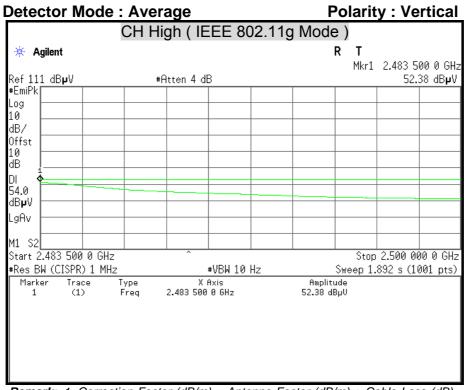


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

^{2.} The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.

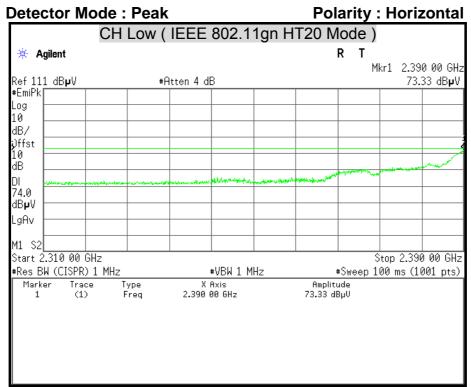


Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)



Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

^{2.} The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.



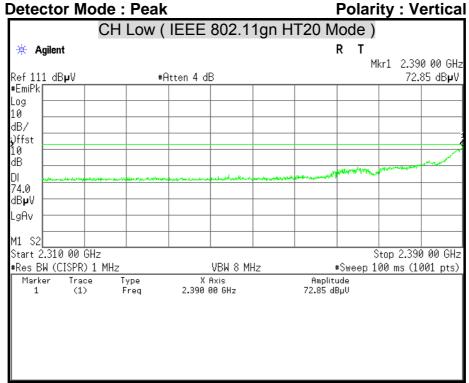
Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

2. The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.

Detector Mode: Average Polarity: Horizontal CH Low (IEEE 802.11gn HT20 Mode) Agilent Mkr1 2.390 00 GHz 50.74 dBµV Ref 111 dBµV #Atten 4 dB #EmiPk Log dB/ Offst dΒ 54.0 dB₽V LgAv Start 2.310 00 GHz Stop 2.390 00 GHz #Res BW (CISPR) 1 MHz #VBW 10 Hz Sweep 9.173 s (1001 pts) Type Freq Amplitude Marker Trace X Axis 2.390 00 GHz

Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

^{2.} The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.



Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

2. The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.

Detector Mode: Average Polarity: Vertical CH Low (IEEE 802.11gn HT20 Mode) Agilent Mkr1 2.390 00 GHz 49.85 dBpV Ref 111 dBµV #Atten 4 dB #EmiPk Log 10 dB/ Offst dΒ 54.0 dB₽V LgAv Start 2.310 00 GHz Stop 2.390 00 GHz #Res BW (CISPR) 1 MHz #VBW 10 Hz Sweep 9.173 s (1001 pts) Type Freq Amplitude Marker Trace X Axis 2.390 00 GHz

Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

^{2.} The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.

Detector Mode: Peak Polarity: Horizontal CH High (IEEE 802.11gn HT20 Mode) 🗰 Agilent R Mkr1 2.483 500 0 GHz Ref 111 dB**µ**V #Atten 4 dB 72.69 dBpV #EmiPk| Loa 10 dB/ Offst 10 dΒ 74.0 dB₽V LgAv M1 S2 Start 2.483 500 0 GHz Stop 2.500 000 0 GHz #Res BW (CISPR) 1 MHz #VBW 1 MHz #Sweep 100 ms (1001 pts) Marker X Axis 2.483 500 0 GHz Amplitude 72.69 dBµV (1)

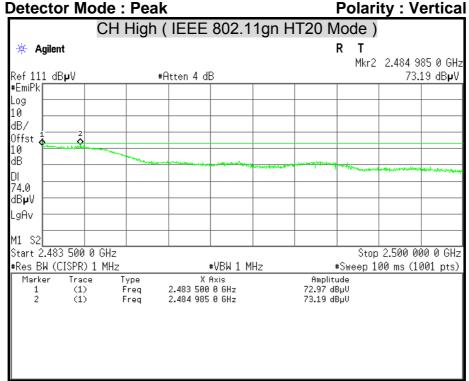
Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

2. The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.

Detector Mode: Average Polarity: Horizontal CH High (IEEE 802.11gn HT20 Mode) Agilent Mkr1 2.483 500 0 GHz 49.54 dB**µ**V Ref 111 dBµV #Atten 4 dB #EmiPk Log dB/ Offst dΒ 54.0 dB₽V LgAv Start 2.483 500 0 GHz Stop 2.500 000 0 GHz #Res BW (CISPR) 1 MHz #VBW 10 Hz Sweep 1.892 s (1001 pts) Amplitude Marker Trace Туре X Axis 2.483 500 0 GHz

Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

^{2.} The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.



Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

2. The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.

Detector Mode: Average Polarity: Vertical CH High (IEEE 802.11gn HT20 Mode) Agilent Mkr1 2.483 549 5 GHz 49.82 dB**µ**V Ref 111 dBµV #Atten 4 dB #EmiPk Log 10 dB/ Offst dΒ 54.0 dB₽V LgAv Start 2.483 500 0 GHz Stop 2.500 000 0 GHz #Res BW (CISPR) 1 MHz #VBW 10 Hz Sweep 1.892 s (1001 pts) Amplitude Marker Trace Type X Axis 2.483 549 5 GHz

Remark: 1. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

^{2.} The correction factor was entered as an offset in the spectrum analyzer to allow for direct reading of power.

7.7 CONDUCTED EMISSION

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) 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	Conducted Limit (dBµv)				
(MHz)	Quasi-peak	Average			
0.15 - 0.50	66 to 56	56 to 46			
0.50 - 5.00	56	46			
5.00 - 30.0	60	50			

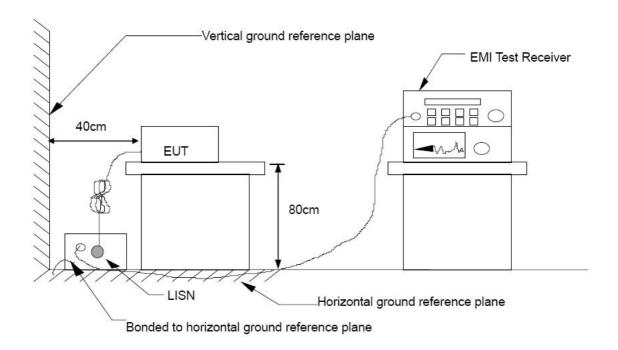
TEST EQUIPMENT

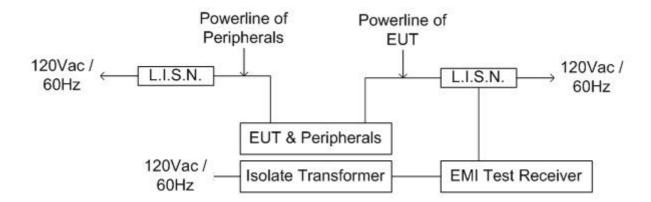
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-465	08/11/2014
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-473	03/10/2015
EMI Test Receiver	ROHDE & SCHWARZ	ESHS 30	838550/003	11/07/2014
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	100111	06/30/2015

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

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TEST SETUP





TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.10:2009.

The test procedure is performed in a 4m × 3m × 2.4m (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0 m (W) \times 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

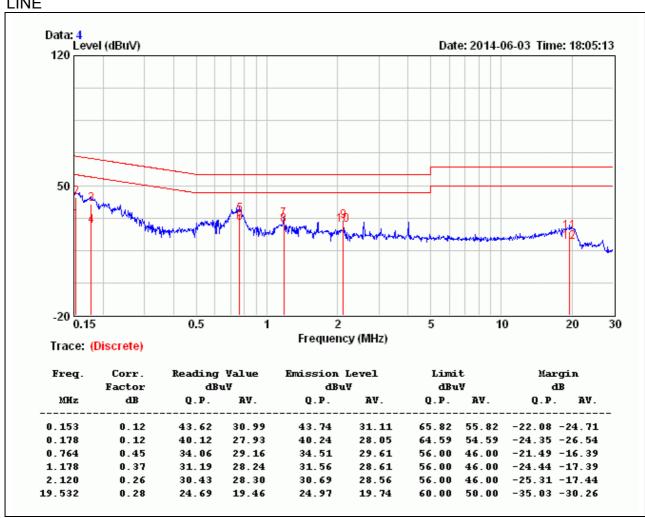
The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

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TEST RESULTS

Product Name	roduct Name Wi-Fi Baby Camera Test By		Rex Chiu
Test Model	Test Model DCS-855L, DCS-855LA1 Test Date		2014/06/03
Test Mode	Normal Operating (Full Function)	Temp. & Humidity	21°C, 61%

LINE

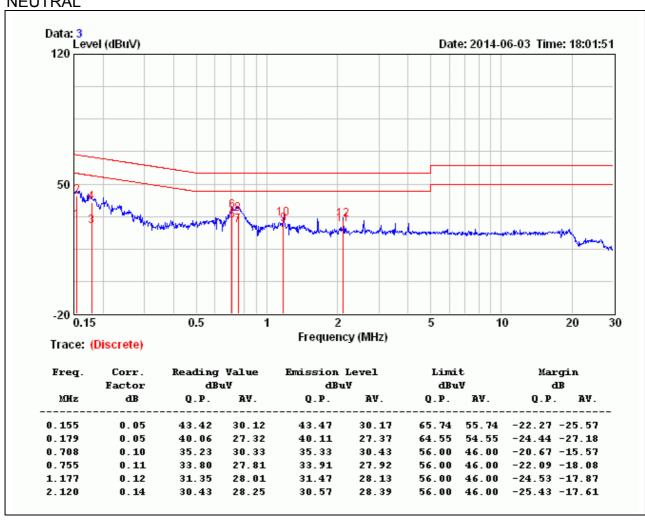


Remark:

- 1. Correction Factor = Insertion loss + Cable loss
- 2. Emission level = Reading Value + Correction factor
- 3. Margin value = Emission level Limit value

Product Name	Product Name Wi-Fi Baby Camera		Rex Chiu
Test Model	DCS-855L, DCS-855LA1	Test Date	2014/06/03
Test Mode	Normal Operating (Full Function)	Temp. & Humidity	21°C, 61%

NEUTRAL



Remark:

- 1. Correction Factor = Insertion loss + Cable loss
- 2. Emission level = Reading Value + Correction factor
- 3. Margin value = Emission level Limit value