

FCC PART 15.247 TEST REPORT

For

Shenzhen Foscam Intelligent Technology Co., Ltd.

5/F, Block 1, Vision Business Park, Nanshan District, Shenzhen, China

FCC ID: ZDEFI9803PV2

Product Type: Report Type: Outdoor HD IP Camera Original Report William Li **Test Engineer:** William Li **Report Number:** RSZ140903001-00B **Report Date:** 2014-09-28 Jimmy Xiao Jimmy xiao **Reviewed By:** RF Engineer Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building ShiHua Road, FuTian Free Trade Zone Prepared By: Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The ShenZhen Foscam Intelligent Technology Co., Ltd.'s product, model number: FI9803P V2 (FCC ID: ZDEFI9803PV2) or the "EUT" in this report was a Outdoor HD IP Camera, which was measured approximately: 153 mm (L) x 92 mm (W) x 86 mm (H), rated with input voltage: DC 12.0 V from adapter.

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Adapter information: Model: SAW-1201000

Input: AC 100-240V, 50/60 Hz, 0.5A

Output: DC 12.0V, 1000mA

Note: The product, series models FC5410P V2, FI9851P V2 and FC6411P V2 are electrically identical with the model FI9803P V2, that was selected for fully testing, They are only named different due to marketing purpose, the detailed information can be referred to the attached declaration letter that stated and guaranteed by the applicant.

*All measurement and test data in this report was gathered from production sample serial number: FIAI1403000001 (Assigned by applicant). The EUT supplied by the applicant was received on 2014-09-03.

Objective

This report is prepared on behalf of *ShenZhen Foscam Intelligent Technology Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

N/A

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement uncertainty with radiated emission is 5.91 dB for 30MHz-1GHz.and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

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Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

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Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 802.11b, 802.11g, and 802.11n-HT20 mode, 11 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

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EUT was tested with Channel 1, 6 and 11.

For 802.11n-HT40 mode, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2422	6	2447
2	2427	7	2452
3	2432	/	/
4	2437	/	/
5	2442	/	/

EUT was tested with Channel 1, 4 and 7.

The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all date rates bandwidths, and modulations.

EUT Exercise Software

Test software:MT7601USB.exe

802.11b: Rate 1 MHz, Power level: 13 802.11g: Rate 6 MHz, Power level: 9

802.11n-HT20: Rate MCS0, Power level: 0C 802.11n-HT40: Rate MCS0, Power level: 0A

Equipment Modifications

No modification was made to the EUT tested.

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Support Equipment List and Details

Manufacturer	Description	Model Serial Number		Remark
Sandisk	T-F card	N/A	3491	-
DELL	PC	DCSCSF	127BP2X	
CYBERFOX	PC	N/A	6104472	-
DELL	Monitor	E178WFPc	CN-0WY564-64180- 704-2SQH	
LG	Keyboard	ACK-201A	N/A	
Kensington	Mouse	N/A	N/A	
N/A	Earphone	MM450	N/A	
LISTED	Modem adapter	TYP60-1207000Z	E326703	
ECOM	modem	56000BPS	215465454	
Sagem	Router	N/A	N/A	
BULL	Socket	GN-415K	5503290068073	
N/A	Router adapter	N/A	N/A	

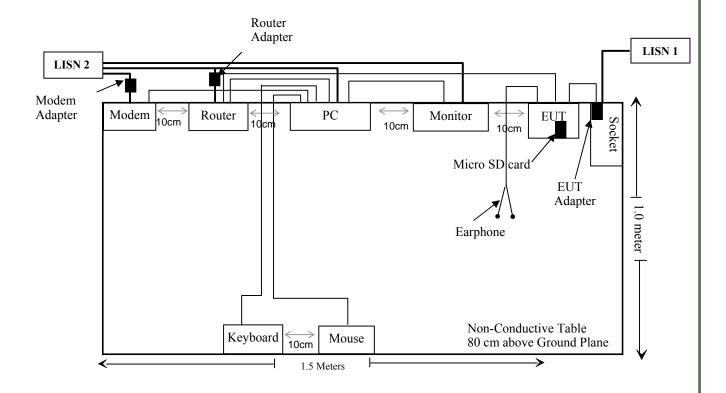
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External I/O Cable

Cable Description	Length (m)	From/Port	То
Un-shielding detachable AC Cable	1.7	Mains	Modem adapter
Un-shielding Un-detachable AC Cable	1.0	Mains	Socket
Un-shielding Un-detachable DC Cable	1.2	Router adapter	Router
Un-shielding Un-detachable RJ45 Cable	1.5	PC	Router
Un-shielding Un-detachable RJ45 Cable	1.0	EUT	Router
Un-shielding Un-detachable RS232 Cable	1.8	Modem	PC
Shielded Un-detachable VGA Cable	1.2	PC	monitor
Shielded Un-detachable USB Cable	1.5	Mouse	PC
Shielded Un-detachable USB Cable	1.5	Keyboard	PC
Un-shielding Un-detachable DC Power Cable	1.37	EUT	adapter
Un-shielding Un-detachable earphone Cable	1.2	EUT	Earphone
Un-shielding Un-detachable DC Cable	1.2	Modem adapter	Modem
Un-shielding detachable AC Cable	1.2	mains	PC
Un-shielding detachable AC Cable	1.5	mains	monitor

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Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b)(1), §2.1091	Maximum Permissible Exposure (MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	Conducted Emissions	Compliance
§15.247(d)	Spurious Emissions at Antenna Port	Compliance*
\$15.205, \$15.209, \$15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Bandwidth	Compliance*
§15.247(b)(3)	Maximum Peak Output Power	Compliance**
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance*
§15.247(e)	Power Spectral Density	Compliance*

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Note: Compliance*, please refer to certified RF module with FCC ID: Q8Y-FR1213C3 approved on 2013-09-02. Compliance**, the output power has been verified and consistent with the certified power.

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Applicable Standard

According to subpart 15.247 (i) and subpart 1.1307 (b)(1), 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

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Limits for General Population/Uncontrolled Exposure					
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)	
0.3-1.34	614	1.63	*(100)	30	
1.34-30	824/f	2.19/f	$*(180/f^2)$	30	
30-300	27.5	0.073	0.2	30	
300-1500	/	/	f/1500	30	
1500-100,000	/	/	1.0	30	

f = frequency in MHz

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm2)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Frequency	Antenna Gain		Conducted Power		Evaluation	Power	MPE Limit
(MHz)	(dBi)	(numeric)	(dBm)	(mW)	Distance (cm)	Density (mW/cm ²)	(mW/cm ²)
2412	2	1.58	15.33	34.12	20	0.0107	1

Note: To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

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^{* =} Plane-wave equivalent power density

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Antenna Connector Construction

The EUT has a RP-SMA antenna connector arrangement for Wi-Fi which the gain was 2.0dBi, fulfill the requirement of this section. Please refer to the external photos.

Result: Compliance.

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FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

Measurement Uncertainty

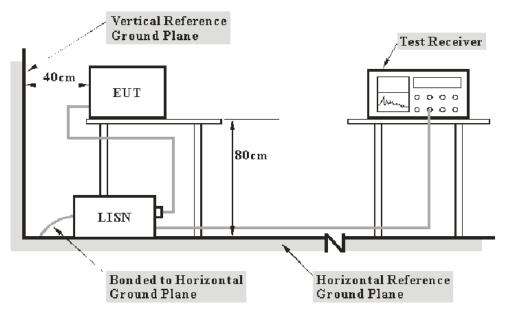
Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between LISN and receiver, LISN voltage division factor, LISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report

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Port	Expanded Measurement uncertainty
AC Mains	3.26 dB (k=2, 95% level of confidence)
CAT 3	3.70 dB (k=2, 95% level of confidence)
CAT 5	3.86 dB (k=2, 95% level of confidence)
CAT 6	4.64 dB (k=2, 95% level of confidence)

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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The setup of EUT is according with ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15.207 limits.

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The adapter was connected to a 120 $V_{AC}/60~\text{Hz}$ power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2014-06-03	2015-06-03
Rohde & Schwarz	LISN	EAH2-Z5	892107/021	2014-06-09	2015-06-09
Rohde & Schwarz	Transient limitor	ESH3Z2	DE25985	2014-05-14	2015-05-14
Rohde & Schwarz	CE Test software	EMC 32	V8.53	-	-

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Results Summary

According to the recorded data in following table, the worst margin reading as below:

3.5 dB at 0.561510 MHz in the Neutral conducted mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{\rm (Lm)} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

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Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

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The testing was performed by William Li on 2014-09-25.

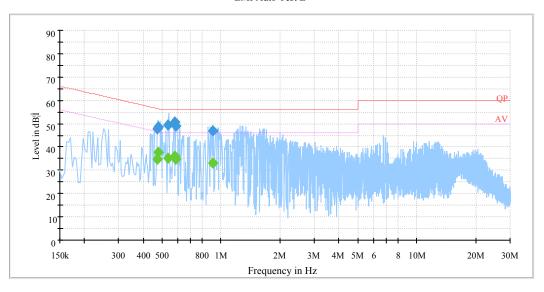
EUT operation mode: Transmitting

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AC 120V/60 Hz, Line

EMI Auto Test L

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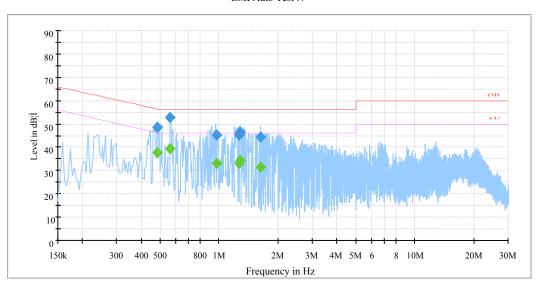
Frequency (MHz)	Corrected Amplitude (dBµV)	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/QP/Ave.)
0.470830	47.7	19.6	56.5	8.8	QP
0.470830	34.8	19.6	46.5	11.7	Ave.
0.478710	48.4	19.6	56.3	7.9	QP
0.478710	37.6	19.6	46.3	8.7	Ave.
0.537870	49.6	19.6	56.0	6.4	QP
0.537870	35.3	19.6	46.0	10.7	Ave.
0.581150	50.6	19.6	56.0	5.4	QP
0.581150	36.1	19.6	46.0	9.9	Ave.
0.589030	49.2	19.6	56.0	6.8	QP
0.589030	34.7	19.6	46.0	11.3	Ave.
0.904350	47.0	19.5	56.0	9.0	QP
0.904350	33.0	19.5	46.0	13.0	Ave.

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AC 120V/60 Hz, Neutral

EMI Auto Test N

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Frequency (MHz)	Corrected Amplitude (dBµV)	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/QP/Ave.)
0.482770	48.5	19.6	56.2	7.7	QP
0.482770	37.5	19.6	46.2	8.7	Ave.
0.561510	52.5	19.6	56.0	3.5	QP
0.561510	39.5	19.6	46.0	6.5	Ave.
0.971570	45.1	19.5	56.0	10.9	QP
0.971570	33.0	19.5	46.0	13.0	Ave.
1.267070	45.3	19.5	56.0	10.7	QP
1.267070	32.9	19.5	46.0	13.1	Ave.
1.286710	46.5	19.5	56.0	9.5	QP
1.286710	34.2	19.5	46.0	11.8	Ave.
1.621550	44.4	19.6	56.0	11.6	QP
1.621550	31.5	19.6	46.0	14.5	Ave.

- 1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
 3) Margin = Limit Corrected Amplitude

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FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

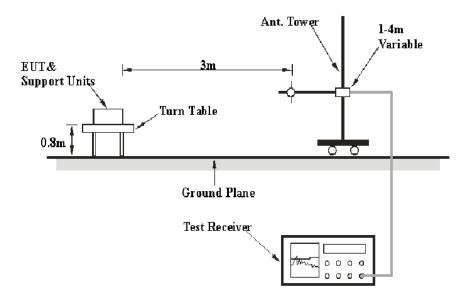
Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

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Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) is 5.91 dB for 30MHz-1GHz.and 4.92 dB for above 1GHz, and it will not be taken into consideration for the test data recorded in the report

EUT Setup



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter was connected to an AC 120V/60 Hz power source.

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EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
Above I GHZ	1MHz	10 Hz	/	Ave.

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Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz and peak and Average detection modes for frequencies above 1 GHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01046	2013-09-30	2014-09-30
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2014-09-25	2015-09-25
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2014-11-27
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2014-04-03	2015-04-03
Sunol Sciences	Horn Antenna	DRH-118	A052304	2011-12-01	2014-11-30
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2013-11-12	2014-11-12
DUCOMMUN	Pre-amplifier	ALN-22093530-01	991373-01	2014-08-03	2015-08-03
the electro- Mechanics Co.	Horn Antenna	3116	9510-2270	2013-10-14	2016-10-13

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

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Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the worst margin reading as below:

1.19 dB at 4824.00 MHz in the Vertical polarization for 802.11b mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by William Li on 2014-09-25.

EUT operation mode: Transmitting

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30 MHz-25 GHz:

802.11b Mode:

Frequency	Re	eceiver	Turntable	Rx An	itenna		Corrected		C Part /205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Low Ch	annel (2	412 MI	Hz)			
569.62	49.62	QP	53	2.2	Н	-7.8	41.82	46	4.18
2412.00	93.78	PK	50	2.2	Н	6.13	99.91	/	/
2412.00	88.93	Ave.	50	2.2	Н	6.13	95.06	/	/
2412.00	103.89	PK	166	2.2	V	6.13	110.02	/	/
2412.00	99.27	Ave.	166	2.2	V	6.13	105.4	/	/
1499.67	49.19	PK	259	1.5	Н	0.74	49.93	74	24.07
1499.67	39.50	Ave.	259	1.5	Н	0.74	40.24	54	13.76
2390.00	53.00	PK	82	1.4	V	5.48	58.48	74	15.52
2390.00	37.14	Ave.	82	1.4	V	5.48	42.62	54	11.38
2492.53	46.60	PK	315	2.0	V	7.21	53.81	74	20.19
2492.53	33.90	Ave.	315	2.0	V	7.21	41.11	54	12.89
4824.00	49.05	PK	280	2.1	V	12.44	61.49	74	12.51
4824.00	40.37	Ave.	280	2.1	V	12.44	52.81	54	1.19
7236.00	32.53	PK	140	1.8	V	17.06	49.59	74	24.41
7236.00	15.41	Ave.	140	1.8	V	17.06	32.47	54	21.53
9648.00	35.57	PK	278	1.5	V	19.28	54.85	74	19.15
9648.00	19.95	Ave.	278	1.5	V	19.28	39.23	54	14.77
			Middle C	hannel	(2437 N	(Hz)			
569.62	48.43	QP	66	1.6	Н	-9.8	38.63	46	7.37
2437.00	91.17	PK	76	1.2	Н	6.13	97.3	/	/
2437.00	90.46	Ave.	76	1.2	Н	6.13	96.59	/	/
2437.00	104.64	PK	159	2.4	V	6.13	110.77	/	/
2437.00	100.58	Ave.	159	2.4	V	6.13	106.71	/	/
2366.43	51.36	PK	73	1.0	Н	5.48	56.84	74	17.16
2366.43	40.83	Ave.	73	1.0	Н	5.48	46.31	54	7.69
2375.12	53.19	PK	55	1.8	Н	5.48	58.67	74	15.33
2375.12	37.54	Ave.	55	1.8	Н	5.48	43.02	54	10.98
2495.06	46.41	PK	248	1.6	V	7.21	53.62	74	20.38
2495.06	34.81	Ave.	248	1.6	V	7.21	42.02	54	11.98
4874.00	50.94	PK	112	1.5	Н	12.4	63.34	74	10.66
4874.00	36.59	AV	294	1.6	Н	12.4	48.99	54	5.01
7311.00	33.86	PK	277	2.1	V	16.62	50.48	74	23.52
7311.00	15.86	Ave.	277	2.1	V	16.62	32.48	54	21.52
9748.00	35.66	PK	273	1.9	Н	19.4	55.06	74	18.94
9748.00	19.71	Ave.	273	1.9	Н	19.4	39.11	54	14.89

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Frequency	Re	eceiver		Rx An	itenna		Corrected	15.247	C Part /205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	_		High Ch	nannel (2	2462 M	Hz)			
569.62	48.87	QP	205	1.8	Н	-7.8	41.07	46	4.93
2462.00	88.88	PK	275	1.9	Н	6.13	95.01	/	/
2462.00	83.22	Ave.	275	1.9	Н	6.13	89.35	/	/
2462.00	97.23	PK	183	1.4	V	6.13	103.36	/	/
2462.00	92.34	Ave.	183	1.4	V	6.13	98.47	/	/
2324.00	43.22	PK	220	1.7	V	4.99	48.21	74	25.79
2324.00	26.04	Ave.	220	1.7	V	4.99	31.03	54	22.97
2488.00	44.25	PK	112	1.3	V	7.21	51.46	74	22.54
2488.00	30.23	Ave.	112	1.3	V	7.21	37.44	54	16.56
2491.27	46.67	PK	245	1.4	V	7.21	53.88	74	20.12
2491.27	39.07	Ave.	245	1.4	V	7.21	46.28	54	7.72
4924.00	46.98	PK	307	1.3	V	12.46	59.44	74	14.56
4924.00	39.98	Ave.	307	1.3	V	12.46	52.44	54	1.56
7386.00	35.87	PK	334	1.1	V	15.91	51.78	74	22.22
7386.00	21.28	Ave.	334	1.1	V	15.91	37.19	54	16.81
9848.00	34.37	PK	239	2.4	V	19.29	53.66	74	20.34
9848.00	19.01	Ave.	239	2.4	V	19.29	38.30	54	15.70

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802.11g Mode:

Frequency	Re	eceiver	Turntable	Rx An	itenna		Corrected		C Part /205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Low Ch	nannel (2	2412 M	Hz)			
569.62	49.23	QP	115	3.9	Н	-7.8	41.43	46	4.57
2412.00	91.68	PK	144	2.2	Н	6.13	97.81	/	/
2412.00	76.47	Ave.	144	2.2	Н	6.13	82.6	/	/
2412.00	104.57	PK	323	1.5	V	6.13	110.7	/	/
2412.00	82.14	Ave.	323	1.5	V	6.13	88.27	/	/
2344.56	61.02	PK	32	2.4	Н	5.48	66.50	74	7.50
2344.56	38.43	Ave.	32	2.4	Н	5.48	43.91	54	10.09
2379.70	55.36	PK	194	1.2	Н	5.48	60.84	74	13.16
2379.70	38.65	Ave.	194	1.2	Н	5.48	44.13	54	9.87
2495.75	44.24	PK	95	1.2	V	7.21	51.45	74	22.55
2495.75	26.86	Ave.	95	1.2	V	7.21	34.07	54	19.93
4824.00	47.54	PK	333	2.0	Н	12.44	59.98	74	14.02
4824.00	29.30	Ave.	333	2.0	Н	12.44	41.74	54	12.26
7236.00	32.32	PK	185	1.3	V	17.06	49.38	74	24.62
7236.00	16.30	Ave.	185	1.3	V	17.06	33.36	54	20.64
9648.00	34.19	PK	105	2.4	Н	19.28	53.47	74	20.53
9648.00	19.55	Ave.	105	2.4	Н	19.28	38.83	54	15.17
			Middle C	hannel ((2437 N	(Hz)			
569.62	46.51	QP	305	2.1	Н	-9.8	36.71	46	9.29
2437.00	90.98	PK	158	1.1	Н	6.13	97.11	/	/
2437.00	76.73	Ave.	158	1.1	Н	6.13	82.86	/	/
2437.00	103.58	PK	138	2.2	V	6.13	109.71	/	/
2437.00	82.02	Ave.	138	2.2	V	6.13	88.15	/	/
2345.68	61.98	PK	204	1.7	Н	5.48	67.46	74	6.54
2345.68	38.46	Ave.	204	1.7	Н	5.48	43.94	54	10.06
2373.11	54.47	PK	304	1.6	Н	5.48	59.95	74	14.05
2373.11	39.22	Ave.	304	1.6	Н	5.48	44.70	54	9.30
2494.30	46.53	PK	345	1.4	V	7.21	53.74	74	20.26
2494.30	27.36	Ave.	345	1.4	V	7.21	34.57	54	19.43
4874.00	49.72	PK	304	1.0	V	12.4	62.12	74	11.88
4874.00	30.45	Ave.	304	1.0	V	12.4	42.85	54	11.15
7311.00	32.92	PK	109	2.2	Н	16.62	49.54	74	24.46
7311.00	16.40	Ave.	109	2.2	Н	16.62	33.02	54	20.98
9748.00	35.56	PK	153	1.3	Н	19.4	54.96	74	19.04
9748.00	19.81	Ave.	153	1.3	Н	19.4	39.21	54	14.79

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Frequency	Receiver		Turntable		itenna	Corrected	Corrected	FCC Part 15.247/205/209				
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)			
	High Channel (2462 MHz)											
569.62	50.13	QP	260	1.4	Н	-7.8	42.33	46	3.67			
2462.00	90.25	PK	157	2.1	Н	6.13	96.38	/	/			
2462.00	75.57	Ave.	157	2.1	Н	6.13	81.7	/	/			
2462.00	96.54	PK	181	2.4	V	6.13	102.67	/	/			
2462.00	80.20	Ave.	181	2.4	V	6.13	86.33	/	/			
2386.06	44.27	PK	348	1.8	Н	5.48	49.75	74	24.25			
2386.06	27.22	Ave.	348	1.8	Н	5.48	32.70	54	21.30			
2485.33	53.34	PK	252	2.2	Н	7.21	60.55	74	13.45			
2485.33	39.17	Ave.	252	2.2	Н	7.21	46.38	54	7.62			
2492.59	42.95	PK	85	1.7	V	7.21	50.16	74	23.84			
2492.59	23.84	Ave.	85	1.7	V	7.21	31.05	54	22.95			
4924.00	57.28	PK	351	1.4	V	12.46	69.74	74	4.26			
4924.00	38.03	Ave.	351	1.4	V	12.46	50.49	54	3.51			
7386.00	32.02	PK	117	1.0	Н	15.91	47.93	74	26.07			
7386.00	16.08	Ave.	117	1.0	Н	15.91	31.99	54	22.01			
9848.00	35.78	PK	355	1.9	V	19.29	55.07	74	18.93			
9848.00	20.80	Ave.	355	1.9	V	19.29	40.09	54	13.91			

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802.11n-HT20 Mode:

Frequency	Re	eceiver	Turntable	Rx An	ntenna		Corrected		C Part /205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Low Ch	annel (2	2412 MI	Hz)			
569.62	50.22	QP	341	2.8	Н	-7.8	42.42	46	3.58
2412.00	95.66	PK	91	2.1	Н	6.13	101.79	/	/
2412.00	83.39	Ave.	91	2.1	Н	6.13	89.52	/	/
2412.00	99.63	PK	348	1.1	V	6.13	105.76	/	/
2412.00	88.99	Ave.	348	1.1	V	6.13	95.12	/	/
2345.50	57.90	PK	174	2.4	Н	5.48	63.38	74	10.62
2345.50	37.66	Ave.	174	2.4	Н	5.48	43.14	54	10.86
2387.33	53.45	PK	144	2.2	Н	5.48	58.93	74	15.07
2387.33	39.30	Ave.	144	2.2	Н	5.48	44.78	54	9.22
2485.37	40.14	PK	248	2.2	V	7.21	47.35	74	26.65
2485.37	26.87	Ave.	248	2.2	V	7.21	34.08	54	19.92
4824.00	53.32	PK	158	2.2	Н	12.44	65.76	74	8.24
4824.00	37.82	Ave.	158	2.2	Н	12.44	50.26	54	3.74
7236.00	32.05	PK	38	2.0	Н	17.06	49.11	74	24.89
7236.00	15.21	Ave.	38	2.0	Н	17.06	32.27	54	21.73
9648.00	35.41	PK	114	2.3	Н	19.28	54.69	74	19.31
9648.00	20.59	Ave.	114	2.3	Н	19.28	39.87	54	14.13
			Middle C	hannel	(2437 N	(Hz)			
569.62	50.22	QP	341	2.8	Н	-7.8	42.42	46	3.58
2437.00	94.63	PK	65	1.9	Н	6.13	100.76	/	/
2437.00	84.15	Ave.	65	1.9	Н	6.13	90.28	/	/
2437.00	99.78	PK	259	1.1	V	6.13	105.91	/	/
2437.00	90.00	Ave.	259	1.1	V	6.13	96.13	/	/
2347.48	57.97	PK	174	1.5	Н	5.48	63.45	74	10.55
2347.48	38.81	Ave.	174	1.5	Н	5.48	44.29	54	9.71
2384.39	54.90	PK	217	1.2	Н	5.48	60.38	74	13.62
2384.39	39.72	Ave.	217	1.2	Н	5.48	45.20	54	8.80
2497.80	38.45	PK	98	1.5	V	7.21	45.66	74	28.34
2497.80	26.67	Ave.	98	1.5	V	7.21	33.88	54	20.12
4874.00	54.43	PK	250	1.4	Н	12.4	66.83	74	7.17
4874.00	35.00	Ave.	250	1.4	Н	12.4	47.40	54	6.60
7311.00	32.89	PK	239	1.2	Н	16.62	49.51	74	24.49
7311.00	16.50	Ave.	239	1.2	Н	16.62	33.12	54	20.88
9748.00	35.41	PK	134	2.4	V	19.4	54.81	74	19.19
9748.00	20.31	Ave.	134	2.4	V	19.4	39.71	54	14.29

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Frequency	Receiver		Turntable		itenna		Corrected	FCC Part 15.247/205/209				
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)			
	High Channel (2462 MHz)											
569.62	49.87	QP	227	2.3	Н	-7.8	42.07	46	3.93			
2462.00	91.14	PK	39	1.0	Н	6.13	97.27	/	/			
2462.00	79.91	Ave.	39	1.0	Н	6.13	86.04	/	/			
2462.00	91.24	PK	72	1.2	V	6.13	97.37	/	/			
2462.00	80.21	Ave.	72	1.2	V	6.13	86.34	/	/			
2384.73	47.26	PK	38	1.6	Н	5.48	52.74	74	21.26			
2384.73	23.67	Ave.	38	1.6	Н	5.48	29.15	54	24.85			
2485.06	47.16	PK	99	2.2	Н	7.21	54.37	74	19.63			
2485.06	25.59	Ave.	99	2.2	Н	7.21	32.80	54	21.20			
2496.96	45.00	PK	206	2.2	V	7.21	52.21	74	21.79			
2496.96	28.53	Ave.	206	2.2	V	7.21	35.74	54	18.26			
4924.00	52.00	PK	238	1.1	Н	12.46	64.46	74	9.54			
4924.00	36.92	Ave.	238	1.1	Н	12.46	49.38	54	4.62			
7386.00	33.50	PK	331	1.6	V	15.91	49.41	74	24.59			
7386.00	16.87	Ave.	331	1.6	V	15.91	32.78	54	21.22			
9848.00	35.81	PK	159	1.8	V	19.29	55.10	74	18.90			
9848.00	20.28	Ave.	159	1.8	V	19.29	39.57	54	14.43			

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802.11n-HT40 Mode:

Frequency (MHz)	Receiver		Turntable	Rx Antenna				FCC Part 15.247/205/209			
	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)		Margin (dB)		
Low Channel (2422 MHz)											
569.62	49.28	QP	306	1.2	Н	-7.8	41.48	46	4.52		
2422.00	89.92	PK	139	2.2	Н	6.13	96.05	/	/		
2422.00	79.36	Ave.	139	2.2	Н	6.13	85.49	/	/		
2422.00	95.25	PK	150	2.0	V	6.13	101.38	/	/		
2422.00	83.20	Ave.	150	2.0	V	6.13	89.33	/	/		
2340.44	55.11	PK	30	2.2	Н	5.48	60.59	74	13.41		
2340.44	38.34	Ave.	30	2.2	Н	5.48	43.82	54	10.18		
2376.06	51.94	PK	250	2.3	Н	5.48	57.42	74	16.58		
2376.06	36.70	Ave.	250	2.3	Н	5.48	42.18	54	11.82		
2495.34	41.31	PK	257	2.4	V	7.21	48.52	74	25.48		
2495.34	28.06	Ave.	257	2.4	V	7.21	35.27	54	18.73		
4844.00	49.93	PK	132	2.0	V	12.4	62.33	74	11.67		
4844.00	35.32	Ave.	132	2.0	V	12.4	47.72	54	6.28		
7266.00	33.78	PK	258	2.4	V	16.62	50.40	74	23.60		
7266.00	15.65	Ave.	258	2.4	V	16.62	32.27	54	21.73		
9688.00	34.28	PK	6	1.4	V	19.29	53.57	74	20.43		
9688.00	19.95	Ave.	6	1.4	V	19.29	39.24	54	14.76		
	•		Middle C	hannel ((2437 N	ИHz)	•	<u>'</u>			
569.62	42.38	QP	47	3.4	Н	-9.8	32.58	46	13.42		
2437.00	90.99	PK	57	2.2	Н	6.13	97.12	/	/		
2437.00	78.45	Ave.	57	2.2	Н	6.13	84.58	/	/		
2437.00	95.10	PK	169	1.0	V	6.13	101.23	/	/		
2437.00	84.00	Ave.	169	1.0	V	6.13	90.13	/	/		
2343.54	54.58	PK	211	1.9	Н	5.48	60.06	74	13.94		
2343.54	37.34	Ave.	211	1.9	Н	5.48	42.82	54	11.18		
2382.81	52.26	PK	337	1.4	Н	5.48	57.74	74	16.26		
2382.81	37.28	Ave.	337	1.4	Н	5.48	42.76	54	11.24		
2489.83	41.47	PK	94	1.9	V	7.21	48.68	74	25.32		
2489.83	27.07	Ave.	94	1.9	V	7.21	34.28	54	19.72		
4874.00	51.88	PK	75	1.3	Н	12.4	64.28	74	9.72		
4874.00	35.50	Ave.	75	1.3	Н	12.4	47.9	54	6.10		
7311.00	32.96	PK	311	2.0	Н	16.62	49.58	74	24.42		
7311.00	15.60	Ave.	311	2.0	Н	16.62	32.22	54	21.78		
9748.00	35.67	PK	58	1.1	Н	19.4	55.07	74	18.93		
9748.00	19.21	Ave.	58	1.1	Н	19.4	38.61	54	15.39		

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Frequency (MHz)	Receiver		Turntable	Rx Antenna		Corrected	Corrected	FCC Part 15.247/205/209				
	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)			
High Channel (2452 MHz)												
569.62	48.56	QP	209	3.8	Н	-7.8	40.76	46	5.24			
2452.00	88.66	PK	129	2.0	Н	6.13	94.79	/	/			
2452.00	75.72	Ave.	129	2.0	Н	6.13	81.85	/	/			
2452.00	90.28	PK	114	1.5	V	6.13	96.41	/	/			
2452.00	77.71	Ave.	114	1.5	V	6.13	83.84	/	/			
2383.33	41.79	PK	340	2.4	Н	5.48	47.27	74	26.73			
2383.33	26.55	Ave.	340	2.4	Н	5.48	32.03	54	21.97			
2489.57	40.86	PK	98	1.9	Н	7.21	48.07	74	25.93			
2489.57	26.17	Ave.	98	1.9	Н	7.21	33.38	54	20.62			
2490.54	44.81	PK	269	1.8	V	7.21	52.02	74	21.98			
2490.54	32.00	Ave.	269	1.8	V	7.21	39.21	54	14.79			
4904.00	52.70	PK	72	1.5	Н	12.46	65.16	74	8.84			
4904.00	35.07	Ave.	72	1.5	Н	12.46	47.53	54	6.47			
7356.00	33.32	PK	222	2.0	V	16.49	49.81	74	24.19			
7356.00	15.04	Ave.	222	2.0	V	16.49	31.53	54	22.47			
9808.00	34.32	PK	222	1.7	V	19.29	53.61	74	20.39			
9808.00	19.87	Ave.	222	1.7	V	19.29	39.16	54	14.84			

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Note:

Corrected Amplitude = Corrected Factor + Reading Corrected Factor=Antenna factor (RX) + Cable Loss - Amplifier Factor Margin = Limit- Corr. Amplitude

Conducted Spurious Emissions at Antenna Port:

Test data is referred to FCC ID: Q8Y-FR1213C3 granted on 2013-09-02, report number: KSZ2013053101J01, which was tested by Ke Mei Ou Laboratory Co., Ltd.

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FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Report No.: RSZ140903001-00B

Test Data

Test data is referred to FCC ID: Q8Y-FR1213C3 granted on 2013-09-02, report number: KSZ2013053101J01, which was tested by Ke Mei Ou Laboratory Co., Ltd.

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FCC §15.247(b) (3) - MAXIMUM PEAK OUTPUT POWER

Applicable Standard

According to §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. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Report No.: RSZ140903001-00B

Test Data

Test data is referred to FCC ID: Q8Y-FR1213C3 granted on 2013-09-02, report number: KSZ2013053101J01, which was tested by Ke Mei Ou Laboratory Co., Ltd.

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FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Report No.: RSZ140903001-00B

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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 band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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 Data

Test data is referred to FCC ID: Q8Y-FR1213C3 granted on 2013-09-02, report number: KSZ2013053101J01, which was tested by Ke Mei Ou Laboratory Co., Ltd.

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FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Report No.: RSZ140903001-00B

Test Data

Test data is referred to FCC ID: Q8Y-FR1213C3 granted on 2013-09-02, report number: KSZ2013053101J01, which was tested by Ke Mei Ou Laboratory Co., Ltd.

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PRODUCT SIMILARITY DECLARATION LETTER

FOSCAM

ShenZhen Foscam Intelligent Technology Co., Ltd.
Address: 5/F, Block 1, Vision Business Park, Nanshan District, Shenzhen, PRC
Tel: 0755-26720367-8306; Fax: 0755-26745168

Report No.: RSZ140903001-00B

2014-9-28

Product Similarity Declaration

To Whom It May Concern,

We, ShenZhen Foscam Intelligent Technology Co., Ltd. hereby declare that our Outdoor HD IP Camera, Model Number: FC5410P V2; FI9851P V2; FC6411P V2 are electrically identical with the FI9803P V2 that was certified by BACL. They are only named different due to marketing purpose.

Please contact me if you have any question.

Yidong XU 9/28,2014

Signature:

Yidong Xu

Manager

***** END OF REPORT *****

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