

# FCC PART 15B MEASUREMENT AND TEST REPORT

For

# Shanghai Xiaoyi Technology Co., Ltd.

6F, Building E, No. 2889, Jinke Road, Shanghai, China.

FCC ID: 2AFIB-YHS2116

Report Type: **Product Type:** YI Home Camera 1080P Original Report Allen tian **Test Engineer:** Allen Tian **Report Number:** RKS151229002-00A **Report Date:** 2016-01-14 Jesse huang Jesse. Humf EMC Manager **Reviewed By:** Bay Area Compliance Laboratories Corp. (Kunshan) Prepared By: Chenghu Road, Kunshan Development Zon No.248, Kunshan, Jiangsu, China Tel: +86-0512-86175000 Fax: +86-0512-88934268 www.baclcorp.com.cn

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## **GENERAL INFORMATION**

#### **Product Description for Equipment under Test (EUT)**

The Shanghai Xiaoyi Technology Co., Ltd.'s product, model number: YHS.2116.INT(FCC ID: 2AFIB-YHS2116) or the "EUT" in this report was a YI Home Camera 1080P, was measured approximately: 125 mm (L) x70mm (W) x 40mm (H), input power: AC 120V/60Hz, the highest operating frequency:2462 MHz.

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\*All measurement and test data in this report was gathered from production sample serial number: 151229005 (Assigned by the BACL, Kunshan). The EUT supplied by the applicant was received on 2015-12-29.

# **Objective**

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

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15B.

#### **Related Submittal(s)/Grant(s)**

No related submittal(s).

#### **Test Methodology**

All measurements contained in this report were conducted with ANSI C63.4-2014, 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 radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

#### **Test Facility**

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the Chenghu Road, Kunshan Development Zone No.248, Kunshan, Jiangsu, China

Test site at Bay Area Compliance Laboratories Corp. (Kunshan) 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 November 06, 2014. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 815570. 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 (FCC §15.27)

#### Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

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#### **EUT Exercise Software**

No exercise software was used.

# **Special Accessories**

No special accessory was used.

# **Equipment Modifications**

No modification was made to the EUT tested.

# **Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
Thinkpad	Notebook PC	T400	N/A
KYOCERA	Printer	FS-1125MFP	N/A
DELL	Keyboard	MB-BL919EB	N/A
DELL	Mouse	MO-1008BU	N/A

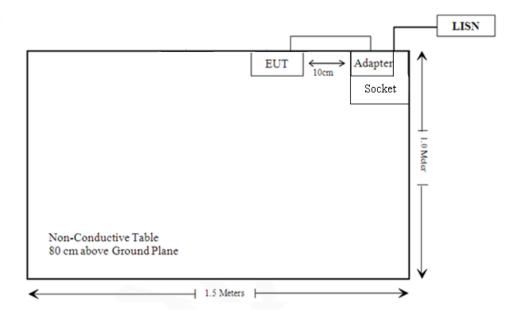
# **External I/O Cable**

Cable Description	Length (m)	From/Port	То
Unshielding Detachable USB Cable	2.0	EUT	ADAPTER/ PC

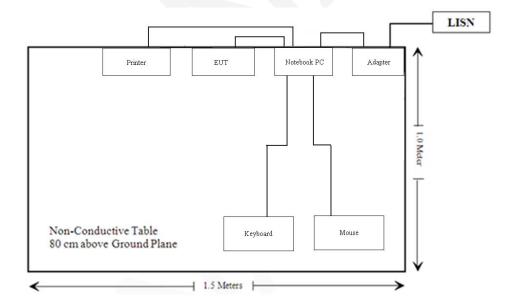
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# **Block Diagram of Test Setup**

Test mode:Operation



Test mode: Data transfer



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# SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliance
§15.109	Radiated Emissions	Compliance

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# FCC §15.107 – AC LINE CONDUCTED EMISSIONS

# **Applicable Standard**

According to FCC§15.107

# **Measurement Uncertainty**

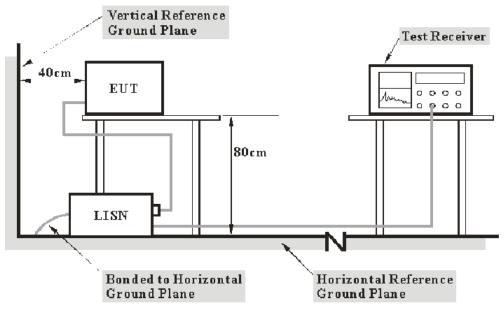
Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between LISN and receiver, LISN voltage division factor, LISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Kunshan) 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 (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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The measurement procedure of EUT setup is according with ANSI C63.4-2014. The related limit was specified in FCC Part 15.107 Class B.

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The EUT was connected to an AC 120V/60 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**

During the conducted emission test, the EUT was connected to the outlet of the LISN.

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	<b>Description</b> Model		Serial Number	Calibration Date	Calibration Due Date				
Rohde & Schwarz	EMI Test Receiver	ESCS30	934115/007	2015-11-4	2016-11-3				
Rohde & Schwarz	LISN	ESH3-Z5	862770/011	2015-11-4	2016-11-3				
Rohde & Schwarz	LISN	ESH3-Z5	12008	2015-06-23	2016-06-22				
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2015-09-16	2016-09-15				
Rohde & Schwarz	CE Test software	EMC 32	V 09.10.0						

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

## **Corrected Factor & Margin Calculation**

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss

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 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit –(QuasiPeak & Average)

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# **Test Results Summary**

According to the recorded data in following table, the EUT complied with the <u>FCC Part 15.107 Class B</u>, the worst margin reading as below:

#### 11.20 dB at 0.670000 MHz in the Line conducted mode

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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**

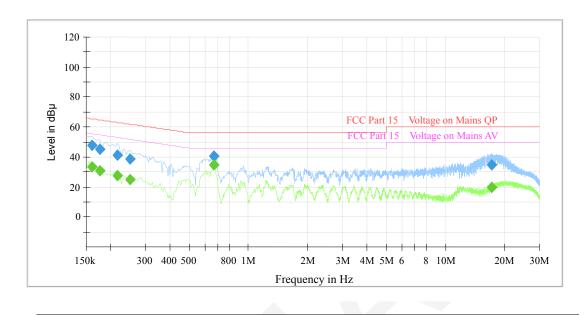
#### **Environmental Conditions**

Temperature:	25℃
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Allen Tian on 2016-01-05

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# AC 120V/60 Hz, Line



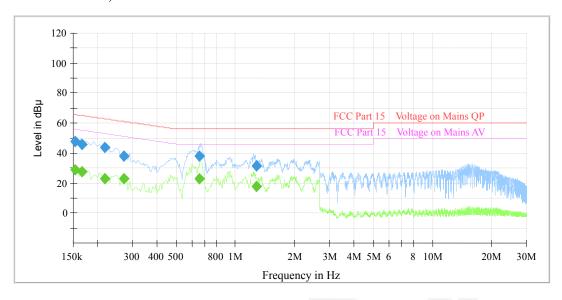
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Frequency	Corrected A	Amplitude	Limit	Margin	Bandwidth	Line	Corr.
(MHz)	QuasiPeak (dB \mu V)	Average (dB \mu V)	(dB \mu V)	(dB)	(kHz)		(dB)
0.160000		33.32	55.46	22.14	9.000	L1	11.0
0.160000	47.58		65.46	17.88	9.000	L1	11.0
0.175000		30.76	54.72	23.96	9.000	L1	11.0
0.175000	45.28		64.72	19.44	9.000	L1	11.0
0.215000		27.84	53.01	25.17	9.000	L1	11.0
0.215000	41.42		63.01	21.59	9.000	L1	11.0
0.250000		24.63	51.76	27.13	9.000	L1	11.0
0.250000	38.42		61.76	23.34	9.000	L1	11.0
0.670000		34.80	46.00	11.20	9.000	L1	11.1
0.670000	40.36		56.00	15.64	9.000	L1	11.1
17.120000		19.94	50.00	30.06	9.000	L1	11.4
17.120000	34.87		60.00	25.13	9.000	L1	11.4

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# AC 120V/60 Hz, Neutral



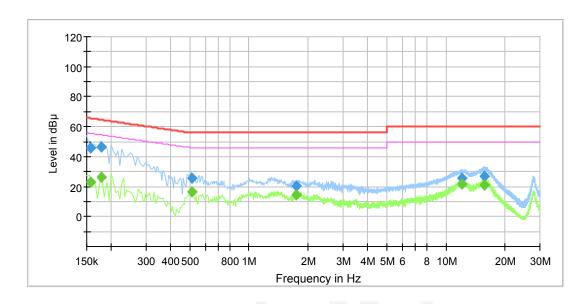
Frequency	Corrected A	Amplitude	Limit	Margin	Bandwidth	Line	Corr.
(MHz)	QuasiPeak (dB \mu V)	Average (dB \mu V)	(dB \mu V)	(dB)	(kHz)		(dB)
0.155000		29.32	55.73	25.41	9.000	N	11.0
0.155000	48.40		65.73	17.33	9.000	N	11.0
0.165000		27.94	55.21	27.27	9.000	N	11.0
0.165000	45.90		65.21	19.31	9.000	N	11.0
0.220000		22.10	52.82	30.72	9.000	N	11.0
0.220000	43.90		62.82	18.92	9.000	N	11.0
0.270000		23.69	51.12	27.43	9.000	N	11.0
0.270000	38.13		61.12	22.99	9.000	N	11.0
0.665000		23.59	46.00	22.41	9.000	N	11.1
0.665000	38.26		56.00	17.74	9.000	N	11.1
1.240000		18.50	46.00	27.50	9.000	N	11.1
1.240000	31.07		56.00	24.93	9.000	N	11.1

Note:

Corrected Amplitude = Reading + Correction Factor
 Margin = Limit - Corrected Amplitude

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# AC 120V/60 Hz, Line

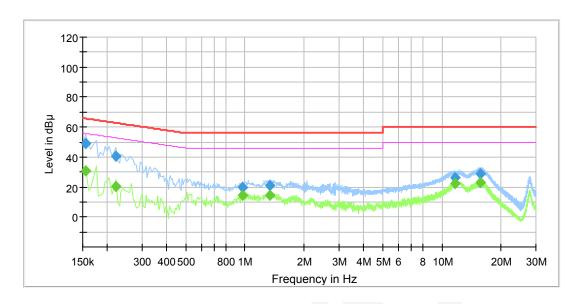


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Frequency	Corrected A	Amplitude	Limit	Margin	Bandwidth	Line	Corr.
(MHz)	QuasiPeak (dB \mu V)	Average (dB \mu V)	(dB \mu V)	(dB)	(kHz)		(dB)
0.157500		22.79	55.59	32.80	9.000	L1	11.0
0.157500	45.74		65.59	19.85	9.000	L1	11.0
0.177500		26.06	54.60	28.54	9.000	L1	11.0
0.177500	46.33		64.60	18.27	9.000	L1	11.0
0.515500		16.70	46.00	29.30	9.000	L1	11.0
0.515500	25.27		56.00	30.73	9.000	L1	11.0
1.728500		14.27	46.00	31.73	9.000	L1	11.2
1.728500	20.12		56.00	35.88	9.000	L1	11.2
11.996500		21.70	50.00	28.30	9.000	L1	11.3
11.996500	25.69		60.00	34.31	9.000	L1	11.3
15.726500		21.10	50.00	28.90	9.000	L1	11.3
15.726500	26.56		60.00	33.44	9.000	L1	11.3

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# AC 120V/60 Hz, Neutral



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Frequency	Corrected A	Amplitude	Limit	Margin	Bandwidth	Line	Corr.
(MHz)	QuasiPeak	Average	(dB \mu V)	(dB)	(kHz)		(dB)
	(dB \mu V)	( <b>dB</b> µ <b>V</b> )					
0.155000		31.09	55.73	24.64	9.000	N	11.0
0.155000	49.06		65.73	16.67	9.000	N	11.0
0.220000		20.52	52.82	32.30	9.000	N	11.0
0.220000	40.39		62.82	22.43	9.000	N	11.0
0.970000		14.45	46.00	31.55	9.000	N	11.1
0.970000	19.86		56.00	36.14	9.000	N	11.1
1.330000		14.61	46.00	31.39	9.000	N	11.1
1.330000	21.26		56.00	34.74	9.000	N	11.1
11.625000		22.50	50.00	27.50	9.000	N	11.4
11.625000	26.54		60.00	33.46	9.000	N	11.4
15.675000		23.24	50.00	26.76	9.000	N	11.4
15.675000	29.16		60.00	30.84	9.000	N	11.4

Note:

Corrected Amplitude = Reading + Correction Factor
 Margin = Limit - Corrected Amplitude

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# FCC §15.109 - RADIATED EMISSIONS

# **Applicable Standard**

FCC §15.109

## **Measurement Uncertainty**

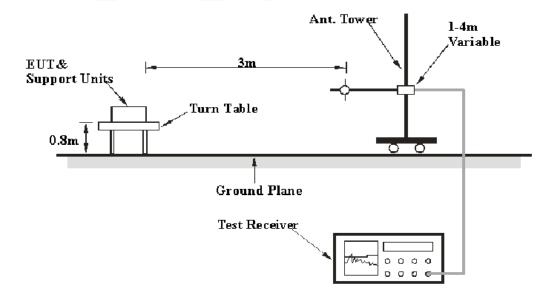
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency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

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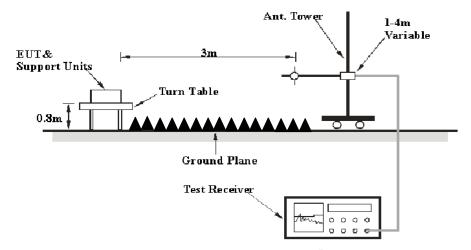
Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Kunshan) is shown in below table. And the uncertainty will not be taken into consideration for the test data recorded in the report

Frequency	Polarity	Measurement uncertainty		
30 MHz~200 MHz	Horizontal	4.62 dB (k=2, 95% level of confidence)		
30 MHZ~200 MHZ	Vertical	4.54 dB (k=2, 95% level of confidence)		
200 MHz∼1 GHz	Horizontal	4.84 dB (k=2, 95% level of confidence)		
200 MHZ~1 GHZ	Vertical	5.91 dB (k=2, 95% level of confidence)		
1 GHz~6 GHz	Horizontal/Vertical	4.68 dB (k=2, 95% level of confidence)		
Above 6 GHz	Horizontal/Vertical	4.92 dB (k=2, 95% level of confidence)		

## **EUT Setup**



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The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B 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 spacing between the peripherals was 10 cm.

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

#### **EMI Test Receiver Setup**

The system was investigated from 30 MHz to 13 GHz.

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

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

#### **Test Procedure**

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

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

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# **Test Equipment List and Details**

Manufacturer	Description	Description Model		Calibration Date	Calibration Due Date
Sonoma Instrunent	Amplifier	330	171377	2015-09-16	2016-09-15
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2015-05-20	2016-05-19
Sunol Sciences	Broadband Antenna	ЈВ3	A090314-2	2015-11-07	2016-11-06
ETS	Horn Antenna	3115	6229	2015-11-07	2016-11-06
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048	2015-11-04	2016-11-03
Mini	Pre-amplifier	ZVA-183-S+	857001418	2015-09-16	2016-09-15
R&S	Auto test Software	EMC32	V 09.10.0	-	-

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<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

## **Correction Factor & Margin Calculation**

The Correction Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

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Correction Factor = 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 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit –(QuasiPeak & Average)

# **Test Results Summary**

According to the data in the following table, the EUT complied with the FCC §15.109 Class B, with the worst margin reading of:

## 5.30 dB at 61.147650 MHz in the Vertical polarization

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  $U_{\text{cispr}}$ , if  $L_{\text{m}}$  is less than  $L_{\text{lim}}$ , it implies that the EUT complies with the limit.

#### **Test Data**

#### **Environmental Conditions**

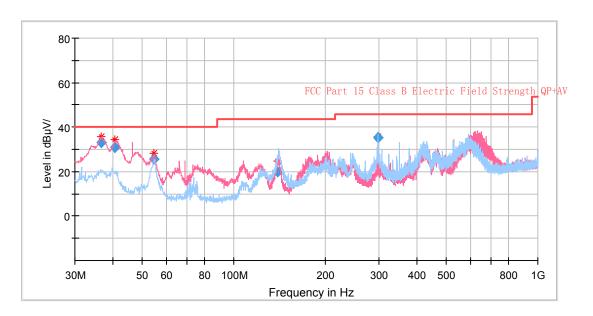
Temperature:	25℃
Relative Humidity:	51 %
ATM Pressure:	101.0 kPa

The testing was performed by Allen Tian on 2016-01-06

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Test Mode: Operation

# $30MHz \sim 1GHz$



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Frequency (MHz)	Corrected Amplitude (dB \mu V/m)	Detector	Limit (dB µ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.597700	33.07	QuasiPeak	40.00	6.93	120.000	100.0	V	127.0	-10.3
40.752350	30.86	QuasiPeak	40.00	9.14	120.000	100.0	V	137.0	-10.7
54.709550	25.40	QuasiPeak	40.00	14.60	120.000	100.0	V	195.0	-16.6
139.649550	19.90	QuasiPeak	43.50	23.60	120.000	200.0	Н	165.0	-11.9
297.060950	35.12	QuasiPeak	46.00	10.88	120.000	100.0	Н	122.0	-10.2
205.272400	6.92	QuasiPeak	43.50	36.58	120.000	100.0	Н	178.0	-12.3

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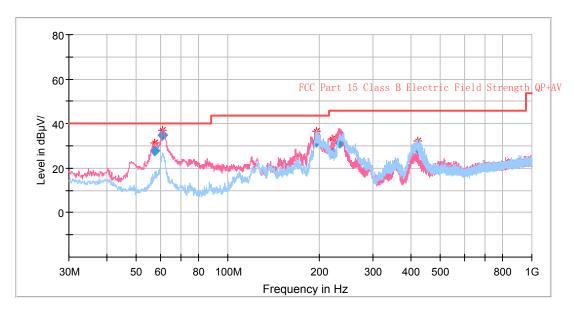
 $1GHz \sim 13GHz$ 

Frequency (MHz)	MaxPeak (dB µ	Average (dB µ	Limit	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
,	V/m)	V/m)	V/m)		,	(-)		(***8)	
1226.333299	38.99		74.00	35.01	1000.000	150.0	V	194.0	-1.9
1226.333299		26.35	54.00	27.65	1000.000	150.0	V	194.0	-1.9
1978.078680		28.83	54.00	25.17	1000.000	150.0	V	48.0	3.8
1978.078680	41.73		74.00	32.27	1000.000	150.0	V	48.0	3.8
3203.398502	45.43		74.00	28.57	1000.000	250.0	V	171.0	9.2
3203.398502		32.30	54.00	21.70	1000.000	250.0	V	171.0	9.2
3988.446394	46.48		74.00	27.52	1000.000	249.0	Н	13.0	11.7
3988.446394		32.60	54.00	21.40	1000.000	249.0	Н	13.0	11.7
5038.255659		35.10	54.00	18.90	1000.000	150.0	V	135.0	14.2
5038.255659	48.55		74.00	25.45	1000.000	150.0	V	135.0	14.2
5836.457113		37.46	54.00	16.54	1000.000	150.0	V	191.0	16.6
5836.457113	50.72		74.00	23.28	1000.000	150.0	V	191.0	16.6

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# $30MHz \sim 1GHz$



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Frequency (MHz)	Corrected Amplitude (dB \mu V/m)	Detector	Limit (dB µ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
57.339850	27.83	QuasiPeak	40.00	12.17	120.000	100.0	V	110.0	-16.6
61.147650	34.70	QuasiPeak	40.00	5.30	120.000	100.0	V	0.0	-16.7
194.946550	31.83	QuasiPeak	43.50	11.67	120.000	100.0	V	188.0	-12.2
219.843850	26.78	QuasiPeak	46.00	19.22	120.000	100.0	V	197.0	-12.2
233.202750	31.28	QuasiPeak	46.00	14.72	120.000	100.0	V	129.0	-12.0
420.220150	28.73	QuasiPeak	46.00	17.27	120.000	100.0	Н	206.0	-7.8

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**1GHz ~ 13GHz** 

Frequency	MaxPeak	Average	Limit	Margin	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dB µ V/m)	(dB µ V/m)	(dB µ V/m)	(dB)	(kHz)	(cm)		(deg)	(dB)
1079.943868		36.62	54.00	17.38	1000.000	150.0	Н	110.0	-2.9
1079.943868	43.39		74.00	30.61	1000.000	150.0	Н	110.0	-2.9
1794.481822	40.36		74.00	33.64	1000.000	250.0	Н	211.0	1.9
1794.481822		27.44	54.00	26.56	1000.000	250.0	Н	211.0	1.9
2383.508064	40.83		74.00	33.17	1000.000	250.0	Н	211.0	4.1
2383.508064		27.81	54.00	26.19	1000.000	250.0	Н	211.0	4.1
3174.279574	47.26		74.00	26.74	1000.000	250.0	Н	281.0	9.2
3174.279574		33.15	54.00	20.85	1000.000	250.0	Н	281.0	9.2
4471.333482	48.26		74.00	25.74	1000.000	150.0	Н	119.0	13.0
4471.333482		34.69	54.00	19.31	1000.000	150.0	Н	119.0	13.0
5887.981586		37.24	54.00	16.76	1000.000	150.0	V	301.0	16.8
5887.981586	50.58		74.00	23.42	1000.000	150.0	V	301.0	16.8

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

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