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Report No.: 1601RSU00903 Report Version: Issue Date: 01-21-2016

# **MEASUREMENT REPORT**

# FCC PART 15.247 Bluetooth v4.0

FCC ID: YZZGVC3200

APPLICANT: Grandstream Networks, Inc.

Application Type: Certification

**Product:** Full HD Video Conferencing System

Model No.: GVC3200

**Brand Name:** Grandstream

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15.247

Test Procedure(s): ANSI C63.10-2013, KDB 558074 D01v03r04

January 12 ~ 20, 2016 **Test Date:** 

Reviewed By : Robin Wu (Robin Wu)

Approved By

(Marlin Chen)



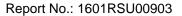


The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01v03r04. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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# **Revision History**

Report No.	Version	Description	Issue Date
1601RSU00903	Rev. 01	Initial report	01-21-2016

Note: The EUT has been got the FCC certificate (FCC ID: YZZGVC3200). The EUT adds one new adapter now and we have shown the conducted emission data and radiated emission data (below 1GHz) in the BLE report.

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# §2.1033 General Information

Applicant:	Grandstream Networks, Inc.	
Applicant Address:	4th Floor, Rainbow Technology Building #16 New West Rd, Nanshan	
	Science & Technology Park (North District), Shenzhen, China 518057	
Manufacturer:	Grandstream Networks, Inc.	
Manufacturer Address:	4th Floor, Rainbow Technology Building #16 New West Rd, Nanshan	
	Science & Technology Park (North District), Shenzhen, China 518057	
Test Site:	MRT Technology (Suzhou) Co., Ltd	
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong	
	Economic Development Zone, Suzhou, China	
MRT Registration No.:	809388	
FCC Rule Part(s):	Part 15.247	
Model No.:	GVC3200	
FCC ID:	YZZGVC3200	
Test Device Serial No.:	N/A ☐ Production ☐ Pre-Production ☐ Engineering	
FCC Classification:	Digital Transmission System (DTS)	

## **Test Facility / Accreditations**

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



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### 1. INTRODUCTION

## 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

#### 1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



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# 2. PRODUCT INFORMATION

# 2.1. Equipment Description

Product Name	Full HD Video Conferencing System	
Model No.	GVC3200	
Brand Name	Grandstream	
WLAN Specification	802.11a/b/g/n	
BT Specification	v3.0 + HS, v4.0	
Antenna Type	PCB Antenna	
Antenna Gain	2.12dBi for 2.4GHz, 1.14dBi for 5GHz	
Components		
Adapter	M/N: NBS65A120500M3	
	Input: AC 100-240V ~ 50/60Hz, 1.5A	
	OUTPUT: 12Vdc, 5.0A	

# 2.2. Product Specification Subjective to this Standard

Product Specification Subjective to this Standard		
Transmitter / Receiver Frequency Range	2402~2480MHz	
Number of Channels	40	
Channel Spacing	2MHz	
Data Rate	GFSK	

Note: For other features of this EUT, test report will be issued separately.

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## 2.3. Working Frequencies

Channel List for BLE

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz				

### 2.4. Device Capabilities

This device contains the following capabilities:

Bluetooth (v3.0 + HS, v4.0)

### 2.5. Test Configuration

The **Full HD Video Conferencing System FCC ID: YZZGVC3200** was tested per the guidance of KDB 558074 D01v03r04. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

### 2.6. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

### 2.7. Test Software

The test utility software used during testing was engineering directive ordered by applicant.

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#### 3. DESCRIPTION OF TEST

#### 3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01v03r04 were used in the measurement of the **Full HD Video Conferencing System FCC ID: YZZGVC3200.** 

Deviation from measurement procedure......None

#### 3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz,  $50\Omega/50uH$  Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions were used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013 at Clause 4.3.

Line conducted emissions test results are shown in Section 6.3.

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#### 3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the Antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable. For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive Antenna height using a broadband Antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn Antennas were used. For frequencies below 30MHz, a calibrated loop Antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband Antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive Antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn Antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive Antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive Antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn Antenna, the horn Antenna should be always directed to the EUT when rising height.

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# 4. TEST EQUIPMENT CALIBRATION DATE

## Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2016/11/03
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2016/11/03
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2016/11/03
Temperature/ Meter Humidity	Yuhuaze	N/A	MRTSUE06180	1 year	2016/12/20

#### Radiated Emissions - AC2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9010A	MRTSUE06124	1 year	2016/06/23
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2016/11/03
TRILOG Antenna	Schwarzbeck	VULB9168	MRTSUE06172	1 year	2016/12/10
Temperature/ Meter Humidity	Mingao	ETH529	MRTSUE06170	1 year	2016/11/29

Software	Version	Function
e3	V 8.3.5	EMI Test Software

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### 5. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

#### **AC Conducted Emission Measurement**

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

150kHz~30MHz: 3.46dB

#### Radiated Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

9kHz ~ 1GHz: 4.18dB

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## 6. TEST RESULT

# 6.1. Summary

Company Name: <u>Grandstream Networks, Inc.</u>

FCC ID: YZZGVC3200

FCC Classification: <u>Digital Transmission System (DTS)</u>

Data Rate(s) Tested: 1Mbps(GFSK) (BLE)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.209	General Field Strength Limits (Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass	Section 6.2
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 6.3

**Notes:** All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.

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### 6.2. Radiated Spurious Emission Measurement

#### 6.2.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FC(	FCC Part 15 Subpart C Paragraph 15.209				
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]			
0.009 – 0.490	2400/F (kHz)	300			
0.490 – 1.705	24000/F (kHz)	30			
1.705 - 30	30	30			
30 - 88	100	3			
88 - 216	150	3			
216 - 960	200	3			
Above 960	500	3			

#### 6.2.2. Test Procedure Used

KDB 558074 D01v03r04 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v03r04 - Section 12.2.4 (peak power measurements)

### 6.2.3. Test Setting

## Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v03r04

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = as specified in Table 1
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold

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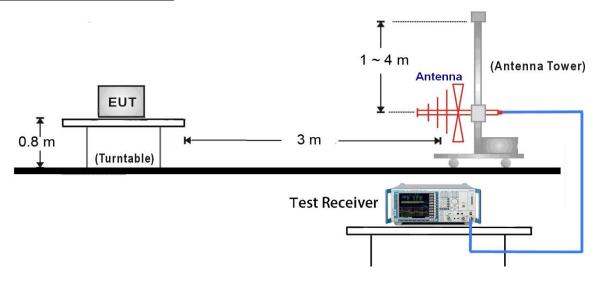
### 7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

## 6.2.4. Test Setup

## 30MHz ~ 1GHz Test Setup:



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#### 6.2.5. Test Result

### The worst case of Radiated Emission 30MHz ~ 1GHz:

Probe: VULB9162_0.03-8GHz  EUT: Full HD Video Conferencing System	Polarity: Horizontal Power: AC 120V/60Hz		
Limit: FCC_Part15.209_RE(3m)_Class B	Engineer: Lewis Huang		
Site: AC2	Time: 2016/01/13 - 20:02		

Frequency(MHz)

No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			164.345	28.653	18.640	-14.847	43.500	10.013	QP
2			250.190	41.676	27.980	-4.324	46.000	13.696	QP
3			342.340	38.124	22.394	-7.876	46.000	15.729	QP
4			371.440	41.013	24.840	-4.987	46.000	16.174	QP
5			616.850	37.137	16.840	-8.863	46.000	20.297	QP
6		*	874.870	44.331	20.394	-1.669	46.000	23.937	QP

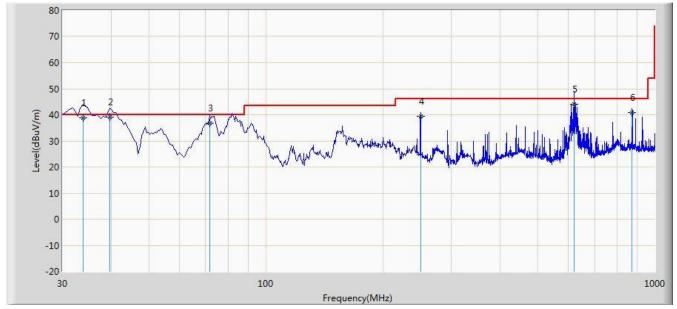
Note: Measure Level  $(dB\mu V/m)$  = Reading Level  $(dB\mu V)$  + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC2	Time: 2016/01/13 - 20:05					
Limit: FCC_Part15.209_RE(3m)_Class B	Engineer: Lewis Huang					
Probe: VULB9162_0.03-8GHz	Polarity: Vertical					
EUT: Full HD Video Conferencing System	Power: AC 120V/60Hz					
Worst Case Mode: Transmit at Channel 2402MHz by BLE						



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			33.880	38.752	26.012	-1.248	40.000	12.740	QP
2		*	39.700	39.120	25.314	-0.880	40.000	13.806	QP
3			71.710	36.893	26.397	-3.107	40.000	10.496	QP
4			250.190	39.370	25.674	-6.630	46.000	13.696	QP
5			619.760	44.020	23.694	-1.980	46.000	20.326	QP
6			874.840	40.915	16.978	-5.085	46.000	23.937	QP

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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### 6.3. AC Conducted Emissions Measurement

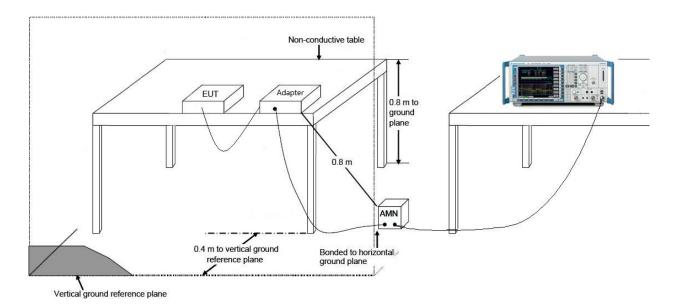
### 6.3.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits									
Frequency (MHz)	QP (dBuV)	AV (dBuV)							
0.15 - 0.50	66 - 56	56 – 46							
0.50 - 5.0	56	46							
5.0 - 30	60	50							

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

## 6.3.2. Test Setup



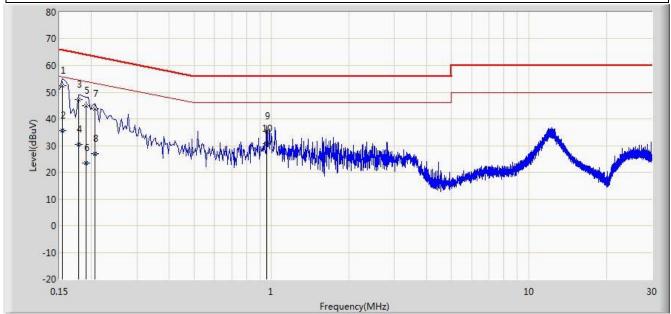
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#### 6.3.3. Test Result

Site: SR2	Time: 2016/01/12 - 20:46
Limit: FCC_Part15.207_CE_AC Power_ClassB	Engineer: Vince Yu
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Full HD Video Conferencing System	Power: AC 120V/60Hz
Note: Transmit at Channel 2402MHz by PLE	

Note: Transmit at Channel 2402MHz by BLE



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1		*	0.154	52.487	41.747	-13.294	65.781	10.740	QP
2			0.154	35.616	24.876	-20.165	55.781	10.740	AV
3			0.178	47.353	37.295	-17.225	64.578	10.058	QP
4			0.178	30.442	20.384	-24.136	54.578	10.058	AV
5			0.190	44.991	34.962	-19.045	64.037	10.029	QP
6			0.190	23.485	13.457	-30.551	54.037	10.029	AV
7			0.206	43.766	33.785	-19.599	63.365	9.981	QP
8			0.206	27.018	17.038	-26.347	53.365	9.981	AV
9			0.958	35.371	25.441	-20.629	56.000	9.930	QP
10			0.958	30.827	20.897	-15.173	46.000	9.930	AV

Note: Measure Level (dB $\mu$ V) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

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Site: SR2	Time: 2016/01/12 - 20:51
Limit: FCC_Part15.207_CE_AC Power_ClassB	Engineer: Vince Yu
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: Full HD Video Conferencing System	Power: AC 120V/60Hz
Note: Transmit at Channel 2402MHz by BLF	·

No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1		*	0.150	55.488	44.346	-10.512	66.000	11.142	QP
2			0.150	36.448	25.306	-19.552	56.000	11.142	AV
3			0.162	50.789	40.711	-14.572	65.361	10.078	QP
4			0.162	31.396	21.318	-23.964	55.361	10.078	AV
5			0.174	50.207	40.150	-14.561	64.767	10.057	QP
6			0.174	29.764	19.707	-25.003	54.767	10.057	AV
7			0.190	45.773	35.745	-18.263	64.037	10.028	QP
8			0.190	25.575	15.547	-28.462	54.037	10.028	AV
9			0.206	45.473	35.472	-17.892	63.365	10.001	QP
10			0.206	29.275	19.274	-24.090	53.365	10.001	AV

Note: Measure Level (dB $\mu$ V) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

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# 7. CONCLUSION

The data collected relate only the item(s) tested and show that the **Full HD Video Conferencing**System FCC ID: YZZGVC3200 is in compliance with Part 15C of the FCC Rules.

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The End