

EMI TEST REPORT

On Model Name: IP Multimedia Phone

Model Number: GXV3275

Brand Name: Grandstream

Prepared for Grandstream Networks, INC

FCC ID Number: YZZGXV3275

According to FCC 47 CFR Part 15, Subpart B

Test Report #: SHE-1402-11115-FCC

Tested by: Daomen Galanz
Daomen /Engineer Company Name

Reviewed by: Jawen Yin ECMG
Jawen Yin/ Senior Engineer Company Name

QC Manager: Swall Zhang ECMG
Swall Zhang/QC Manager Company Name

Test Report Released by: Swall Zhang March 25th, 2014
Swall Zhang Date

Test Location

Tests performed in a Certified ANSI Semi-Anechoic Chamber and Shielded Room.

<i>Test Site Location</i>	<i>: Galanz</i>
	<i>25 South Ronggui Rd., Shunde, Foshan, Guangdong, China</i>
<i>Tel</i>	<i>: (86)-757-23612785</i>
<i>Fax</i>	<i>: (86)-757-23612537</i>

Test Facility

The test facility was recognized, certified, or accredited by the following organizations:

- CNAL - LAB Code: L2244***

Galanz EMC Laboratory has been assessed and in compliance with CN AL/AC01:2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- FCC - Registration No.: 580210***

Galanz EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC was maintained in our files.

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List Attached Files

Exhibit Type	File Description	File Name
<i>Test Report</i>	<i>Test Report</i>	YZZGXV3275 _Test report.pdf
<i>Operation Description</i>	<i>Technical Description</i>	YZZGXV3275_operation description.pdf
<i>External Photos</i>	<i>External Photos</i>	YZZGXV3275_External Photos
<i>Internal Photos</i>	<i>Internal Photos</i>	YZZGXV3275_Internal Photos
<i>Block Diagram</i>	<i>Block Diagram</i>	YZZGXV3275_Block Diagram.pdf
<i>Schematics</i>	<i>Circuit Diagram</i>	YZZGXV3275 _Schematics.pdf
<i>ID Label/Location</i>	<i>Label and Location</i>	YZZGXV3275_Label & Location.pdf
<i>User Manual</i>	<i>User Manual</i>	YZZGXV3275 _User Manual.pdf
<i>Test set-up photos</i>	<i>Test set-up photos</i>	YZZGXV3275 _Test Set-up Photos

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Opinions and Interpretations

This test report relates to the abovementioned equipment under test (EUT). Without the permission of ECMG Electronic Technical Testing Corp (Shenzhen) Test Lab this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark on this or similar products. The manufacturer has sole responsibility of continued compliance of the device.

Statement of Measurement Uncertainty

The data and results referenced in the document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities that can account for a nominal measurement error. Furthermore, component and process variability of devices similar to that tested may result in additional deviation.

Administrative Data

Test Sample : IP Multimedia Phone

Model Numbers : GXV3275

Model Tested : GXV3275

Receipt Date : March 5th, 2014

Date Tested : March 13rd to 16th, 2014

Applicant : Grandstream Networks, INC

Address : 5F, Bldg #1, No.2 Kefa Rd., Science & Technology Park, Shenzhen, China

Telephone : (86)-755-26014600

Fax : (86)-755-26014601

Manufacturer : Grandstream Networks, INC

Address : 5F, Bldg #1, No.2 Kefa Rd., Science & Technology Park, Shenzhen, China

Telephone : (86)-755-26014600

Fax : (86)-755-26014601

Factory : Grandstream Networks, INC

Address : 5F, Bldg #1, No.2 Kefa Rd., Science & Technology Park, Shenzhen, China

Telephone : (86)-755-26014600

Fax : (86)-755-26014601

EUT Description

Grandstream Networks, INC. model tested GXV3275 (referred to as the EUT in this report) is an IP Multimedia Phone.

Technical specifications of the EUT are as belows:

Parameter		Range
Basic parameters	<i>Rated voltage</i>	12VDC
	<i>Rated Current</i>	1.5A
I/O Ports	<i>Power Jack</i>	<i>12V/5A Power Jack used to connect the power adapter. The phone should adopt BY type other than UPS. The usage of other adapters may lead to an insensitive touch screen.</i>
	<i>PC Port</i>	<i>10/100/1000Mbps Ethernet port for PC connection.</i>
	<i>LAN Port</i>	<i>10/100/1000Mbps Ethernet port connect to LAN. It supports PoE.</i>
	<i>RJ9 Headset Port</i>	<i>Connect RJ9 headset or EHS headset.</i>
	<i>Handset Port</i>	<i>Connect handset</i>
	<i>Mini HDMI Port</i>	<i>Connect the display device that supports HDMI.</i>
	<i>3.5mm Headset Port</i>	<i>Connect 3.5mm headset.</i>
	<i>SD Port</i>	<i>Connect SD storage device.</i>
	<i>USB Port</i>	<i>2 USB port to connect USB device.</i>
Power Adapter	<i>Input</i>	<i>100-240VAC 50/60Hz 0.4A</i>
	<i>Output</i>	<i>12VDC, 1.5A</i>
	<i>Model</i>	<i>SFF1200150A1BY</i>
	<i>Brand name</i>	<i>Mass Power</i>

NOTE: For more detailed informations or features please refer to user's manual of EUT.

Test Summary

The Electromagnetic Compatibility requirements on model GXV3275 for this test are stated below. All results listed in this report relate exclusively to this above-mentioned model as the Equipment under Test. This report confers no approval or endorsement upon any other component, host or subsystem used in the test set-up.

Emission Tests				
Specifications	Description	Test Results	Test Point	Remark
FCC Part 15.107 ANSI C63.4 -2003	Conducted Emission	Passed	AC Input Port	Attachment 1
FCC Part 15.109 ANSI C63.4 -2003	Radiated Emission	Passed	Enclosure	Attachment 2

Test Mode Justification

Pre-scan has been conducted to determine the worst-case from all possible combinations between available operation modes. The following mode was chosen for the final test as described below.

IP Call mode:

Connected the EUT to another an IP Multimedia Phone by an RJ-45 cable and established a video call communication between them. Then connected a notebook computer to PC port of the EUT by another an RJ-45 cable and ping “192.168.0.162 -t” to EUT and measured it.

For PoE Mode:

Let EUT powered on PoE mode and measured it.

EUT Exercise Software

No test software support this test.

Equipment Modification

Any modifications installed previous to testing by Grandstream Networks, INC. will be incorporated in each production model sold or leased in United States.

There were no modifications installed by ECMG Electronic Technical Testing Corp (Shenzhen). Test personnel.

EUT Sample Photos

EUT Model:GXV3275



EUT-Front View #1



EUT-Front View #2



EUT-Rear View



EUT-I/O Ports View



Power Adapter-Top View



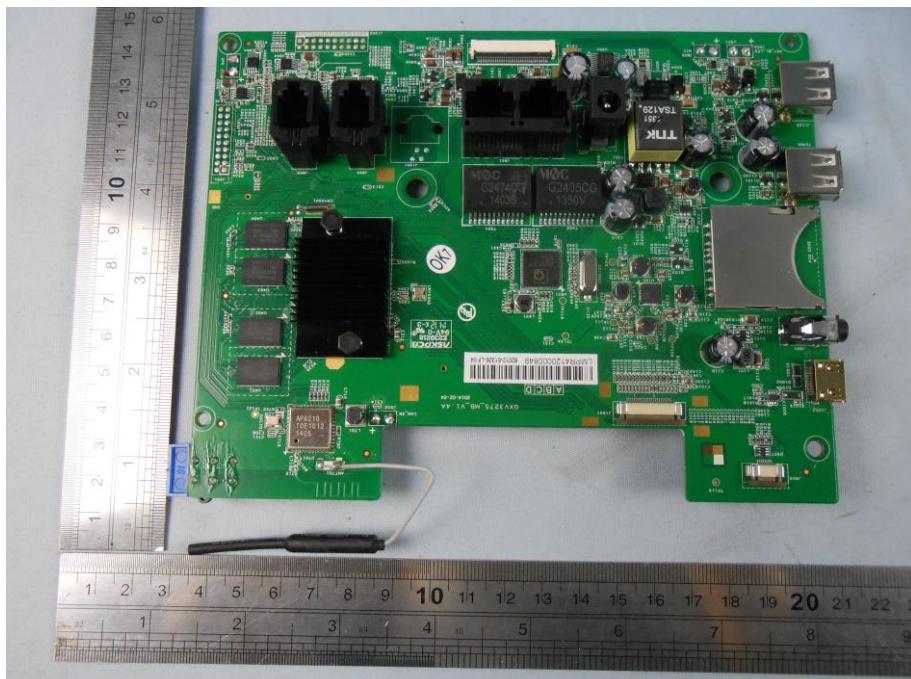
EUT-Uncovered View

FCC Test Report #: SHE-1402-11115-FCC

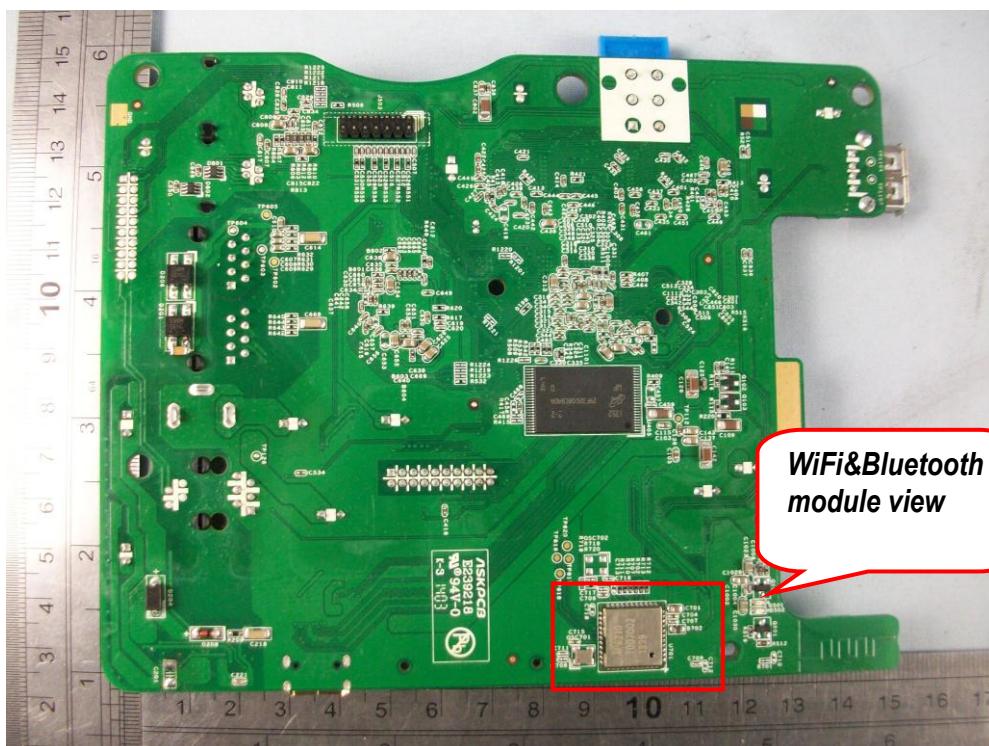
Prepared for Grandstream Networks, INC

Prepared by ECMG Electronic Technical Testing Corp (Shenzhen)

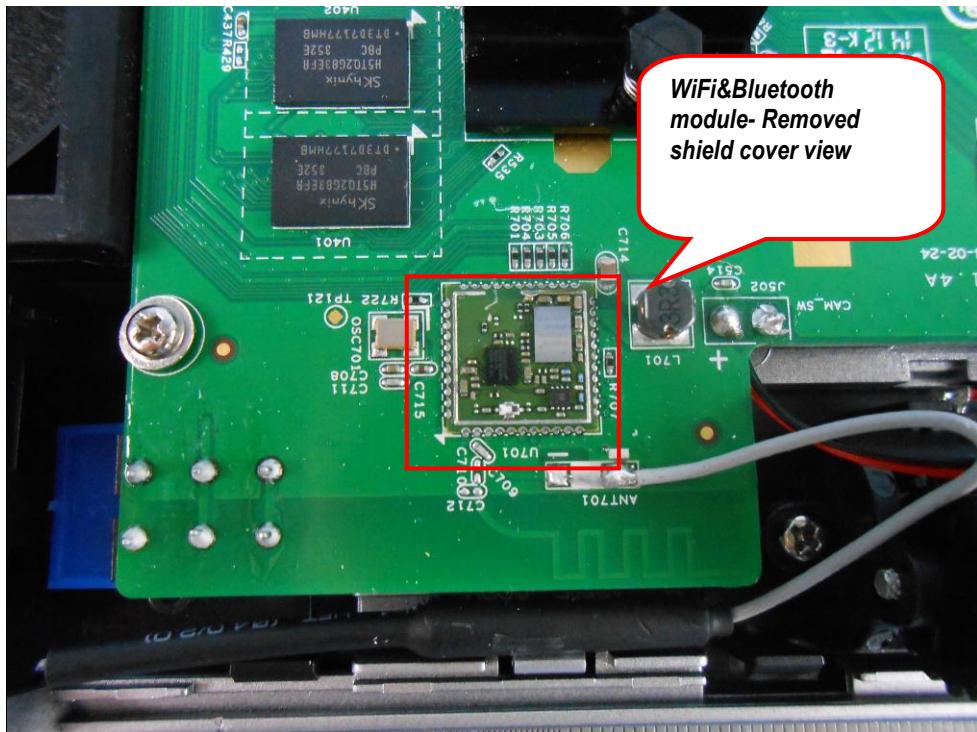
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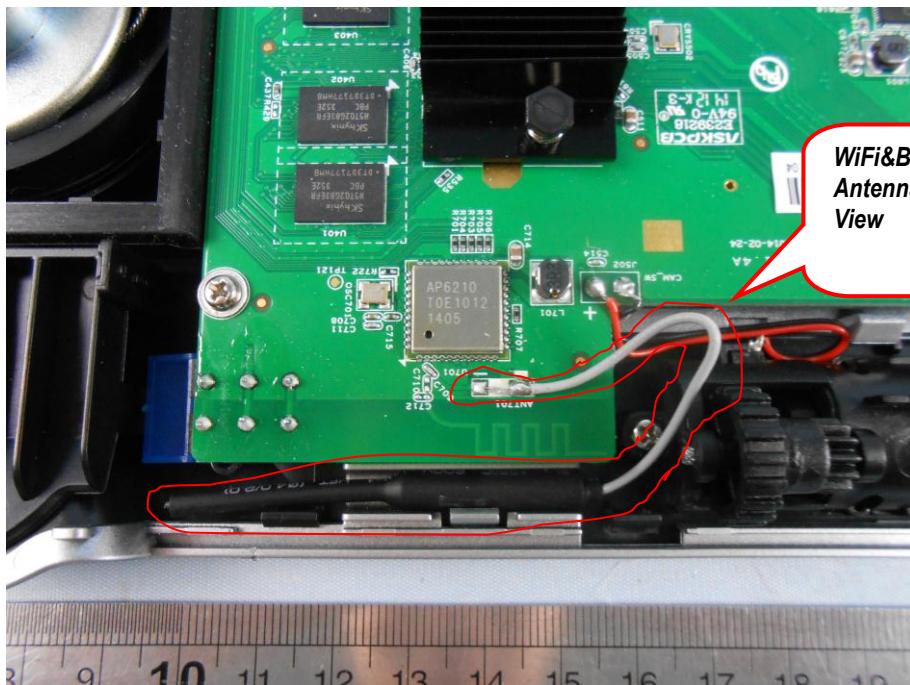
Main board- Top View



Main board- Bottom View



Main board- Bottom View



Antenna Location View

Test System Details

EUT			
Model Number:	GXV3275		
Model Tested:	GXV3275		
Description:	IP Multimedia Phone		
Input:	AC 120V/60Hz		
Manufacturer:	Grandstream Networks, INC		
Support Equipment			
Description	Model Number	Serial Number	Manufacturer
Notebook computer	ThinkPad x121e	---	Lenovo
Adapter Of Notebook PC	ThinkPad 57Y4614	---	Lenovo
Mouse	MO32B0	23-033131	IBM
Keyboard	SK-1788	---	Lenovo
Monitor	TFT1780PS	B8879HA021638	AOC
IP Multimedia Phone	GXV3240	N/A	Grandstream Networks, INC
PoE Adapter terminal unit	DWL-P200	F370175001634	D-Link

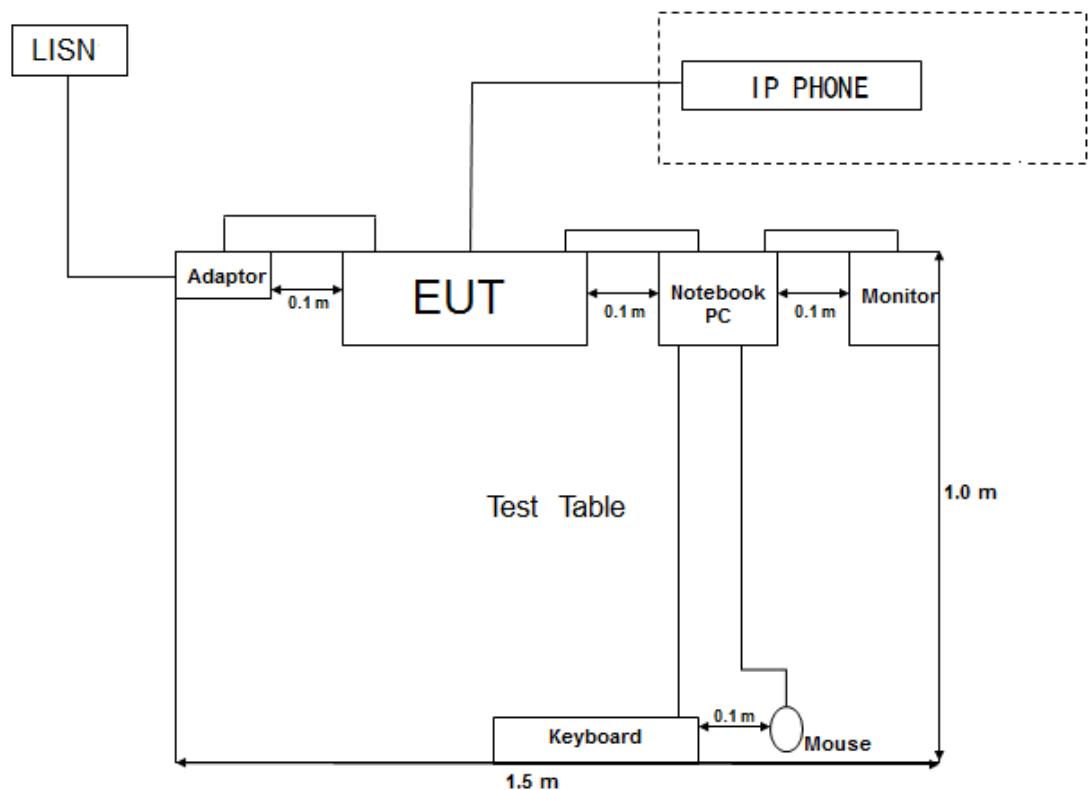
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<i>Cable Description</i>					
<i>Description</i>	<i>From</i>	<i>To</i>	<i>Length (Meters)</i>	<i>Shielded (Y/N)</i>	<i>Ferrite (Y/N)</i>
<i>Power Cord Of Notebook PC</i>	<i>Adapter</i>	<i>Notebook Computer</i>	1.6	<i>N</i>	<i>Y</i>
	<i>Adapter</i>	<i>AC Plug</i>	1.2	<i>N</i>	<i>Y</i>
<i>AC power cord of monitor</i>	<i>Monitor</i>	<i>Plug</i>	1.2	<i>N</i>	<i>Y</i>
<i>Mouse cord</i>	<i>Mouse</i>	<i>Plug</i>	1.2	<i>N</i>	<i>Y</i>
<i>Keyboard cord</i>	<i>Keyboard</i>	<i>Plug</i>	1.2	<i>N</i>	<i>Y</i>
<i>RJ-45 Cord 1</i>	<i>EUT</i>	<i>Notebook Computer</i>	1.5	<i>N</i>	<i>N</i>
<i>RJ-45 Cord 2</i>	<i>EUT</i>	<i>IP Phone</i>	>3.0	<i>N</i>	<i>N</i>
<i>Power cord of Adapter</i>	<i>EUT</i>	<i>Plug</i>	1.8	<i>N</i>	<i>N</i>

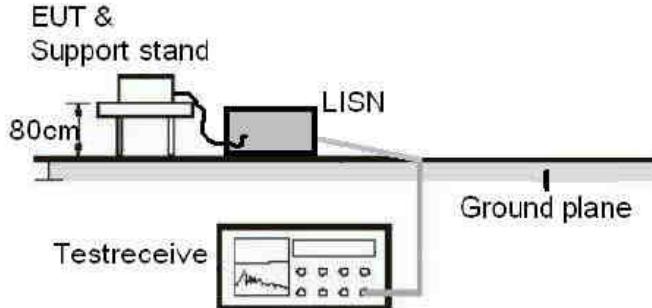
Note: The "EUT" means "IP MULTIMEDIA PHONE".

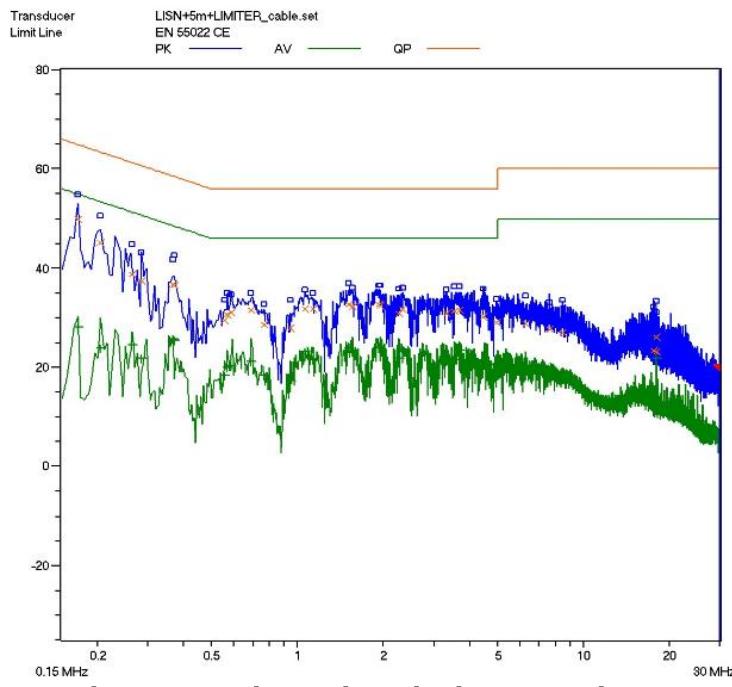
NOTE: The EUT has been tested as an independent unit together with other necessary accessories or support units. The above support units or accessories were used to form a representative test configuration during the test tests.

Configuration of Tested System

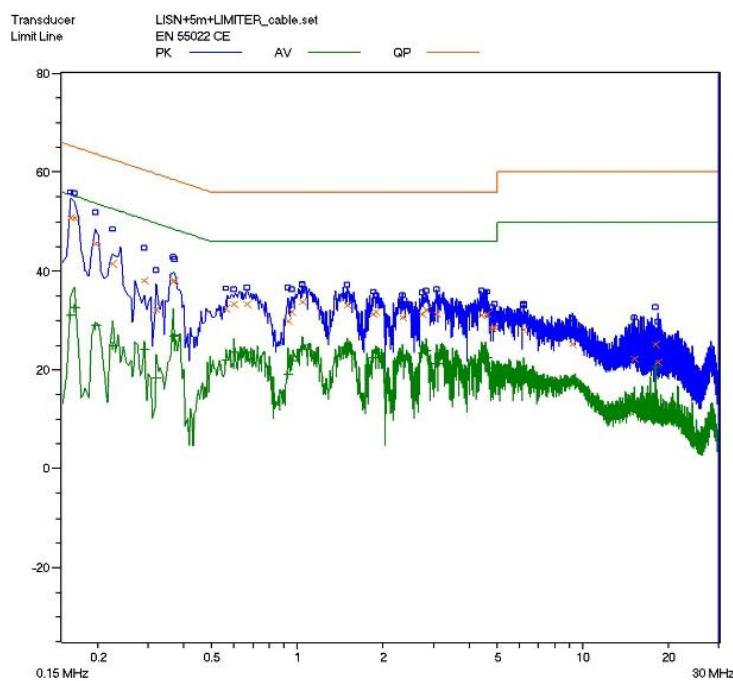


ATTACHMENT 1 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Grandstream Networks, INC	TEST STANDERD:	FCC Part 15, Subpart B, Section 15.107
MODEL NUMBERS:	GXV3275	PRODUCT:	IP Multimedia Phone
MODEL TESTED:	GXV3275	EUT DESIGNATION:	Home or Office
TEMPERATURE:	23°C	HUMIDITY:	51%
ATM PRESSURE:	103kPa	GROUNDING:	None
TESTED BY:	Sewen Guo	DATE OF TEST:	March 14 th , 2014
TEST REFERENCE:	ANSI C63.4 -2003		
TEST PROCEDURE:	The EUT was set up according to the guidelines of ANSI C63.4 -2003 for conducted emissions. The measurement was using a AMN on each line and an EMI receiver peak scan was made at the frequency measurement range. The six highest significant peaks were then marked, and these signals were then quasi-peaked and averaged. The frequency range investigated was from 150KHz to 30MHz.		
DESCRIPTION OF TEST MODE	IP Call		
TEST SET UP			
TESTED RANGE:	150kHz to 30MHz		
TEST VOLTAGE:	AC 120V/60Hz		
RESULTS:	The EUT meets the requirements of test reference for Conducted Emissions. The test results relate only to the equipment under test provided by client.		
CHANGES OR MODIFICATIONS:	There were no modifications installed by ECMG Electronic Technical Testing Corp (Shenzhen). Test personnel.		
M. UNCERTAINTY:	Freq. $\pm 2 \times 10^{-7}$ x Center Freq., Amp ± 2.6 dB		



Line L Conducted Emission Graph



Line N Conducted Emission Graph

Test Data:

Lines	Frequency (MHz)	Corrected QP Level (dBuV)	Limits QP (dBuV)	Margin QP (dB)	Frequency (MHz)	Corrected AVE Level (dBuV)	Limits AVE (dBuV)	Margin AVE (dB)
L	0.170	49.9	65	-15.1	0.17	28.1	55	-26.9
L	0.205	45.0	63.4	-18.4	0.205	23.8	53.4	-29.6
L	0.265	38.9	61.3	-22.4	0.265	24.5	51.3	-26.8
N	0.160	50.8	65.5	-14.7	0.16	31.1	55.5	-24.4
N	0.165	50.9	65.2	-14.3	0.165	32.6	55.2	-22.6
N	0.195	45.6	63.8	-18.2	0.195	29.0	53.8	-24.8

Note:

- 1) All readings are using a bandwidth of 9 kHz, with a 500 ms sweep time. A video filter was not used.
- 2) Other emission levels are too low against official limit that are not reported.

Test Equipment List:

Test Equipment	Model No.	Manufacturer	Serial No.	Last Cal.	Cal. Interval
Receiver	SMR4503	SCHAFFNER	11725	2013.07.08	2014.07.08
Line impedance stabilization network	4825/2	ETS	1161	2013.07.08	2014.07.08

Note: All testing were performed using internationally recognized standards. All test instruments were calibrated.

TESTED BY: Daomen **GALANZ**
ENGINEER **COMPANY NAME**

REVIEWED BY: Jawenfjia **ECMG**
SENIOR ENGINEER **COMPANY NAME**

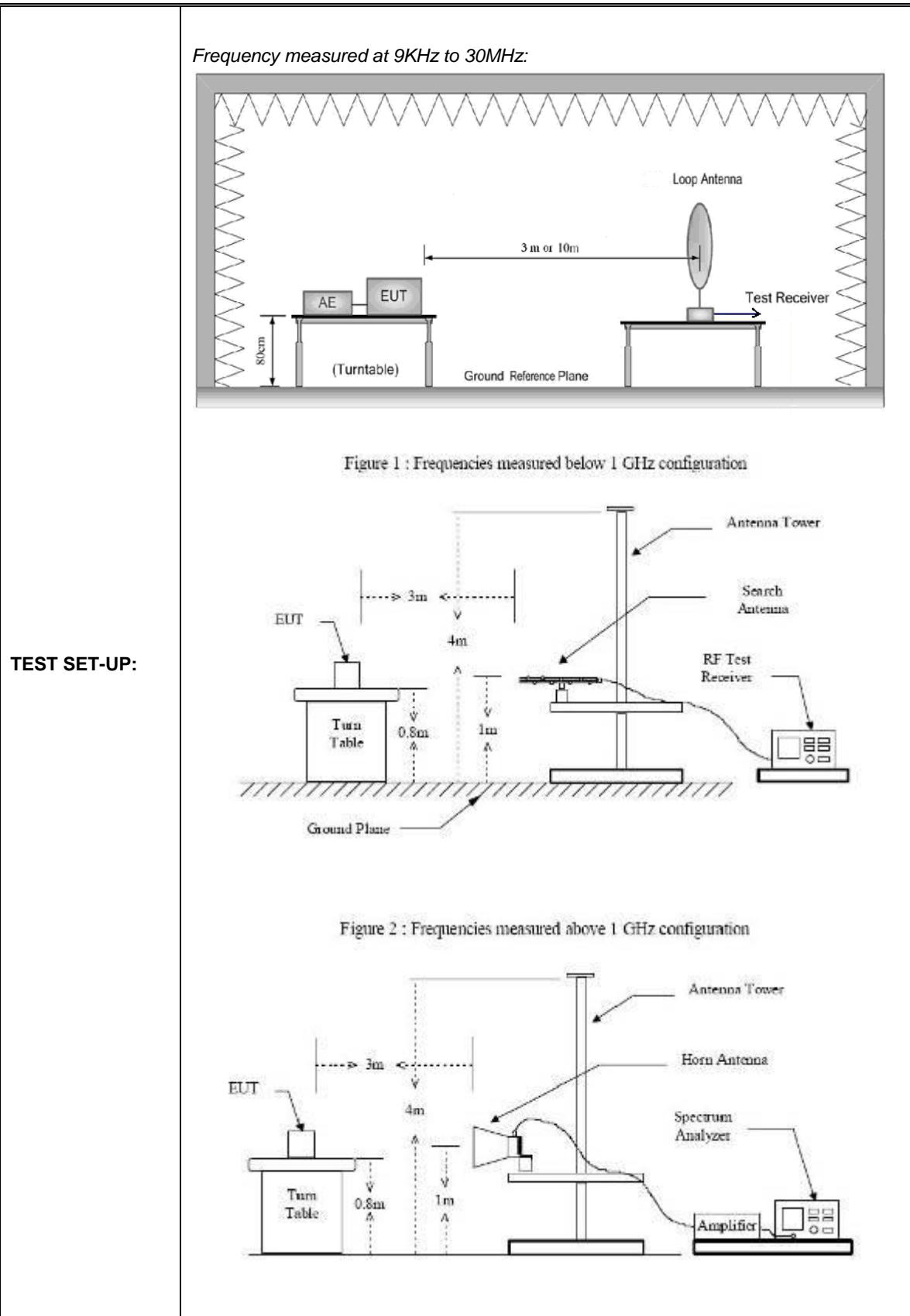


Conducted Emission Test Set-up

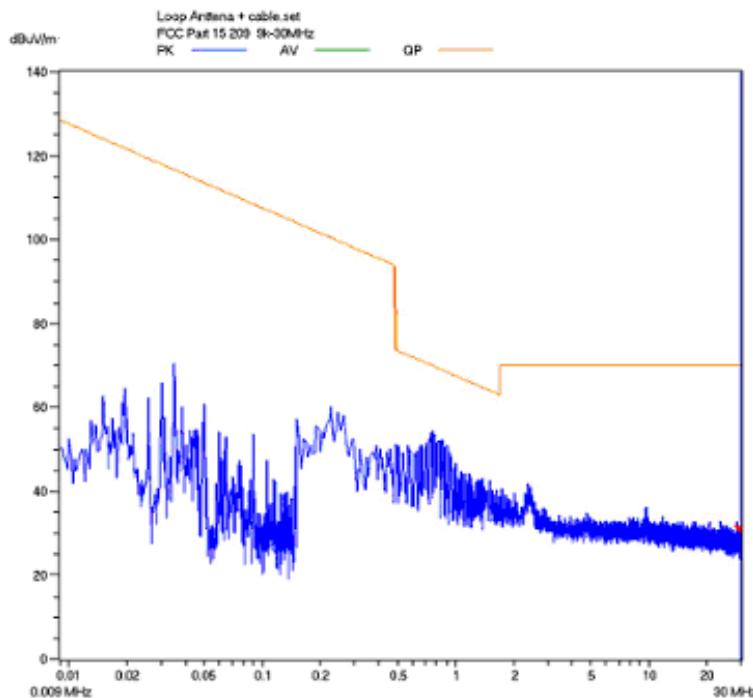
ATTACHMENT 2 – RADIATED EMISSION MEASUREMENT

CLIENT:	Grandstream Networks, INC	TEST STANDERD:	FCC Part 15,Subpart B, Section 15.109
MODEL NUMBERS:	GXV3275	PRODUCT:	IP Multimedia Phone
EUT MODEL:	GXV3275	EUT DESIGNATION:	Home or Office
TEMPERATURE:	23°C	HUMIDITY:	49%RH
ATM PRESSURE:	103.0kPa	GROUNDING:	None
TESTED BY:	Daomen	DATE OF TEST:	March 14 th , 2014
TEST REFERENCE:	ANSI C63.4 -2003		
TEST PROCEDURE:	<p>The EUT was set up according to the guidelines of ANSI C63.4 -2003 for radiated emissions. An EMI receiver peak scan was made at the frequency measurement range (pre-scan) in an Anechoic chamber. signal discrimination was then performed and the significant peaks marked. these peaks were then quasi-peaked in the frequency range of 30 MHz to 1GHz and average and peak in the frequency range of 1 GHz to 5GHz at an anechoic chamber.</p> <p>The following data lists the significant emission frequencies, measured levels, correction factors (including cable and antenna correction factors), and the corrected readings against the limits. Explanation of the Correction Factor are given as follows:</p> <p>FS= RA + AF + CF - AG</p> <p>Where: FS = Field Strength</p> <p>RA = Receiver Amplitude</p> <p>AF = Antenna Factor</p> <p>CF = Cable Attenuation Factor</p> <p>AG = Amplifier Gain</p>		
TEST MODE	IP Call mode,PoE mode		
TESTED RANGE:	9K-30MHz and 30MHz to 5GHz Note: As highest frequency operated of the EUT is 1GHz, so upper frequency of radiated emission test is up to 5GHz by FCC PART 15,subpart B,section 15.33(b).		
TEST VOLTAGE:	AC 120V/60Hz		
RESULTS:	The EUT meet the requirements of test reference for radiated emissions. The test results relate only to the equipment under test provided by client.		
CHANGES OR MODIFICATIONS:	There were no modifications installed by ECMG Electronic Technical Testing Corp (Shenzhen). Test personnel.		
M. UNCERTAINTY:	Freq. $\pm 2 \times 10^{-7}$ x Center Freq., Amp ± 3.6 dB		

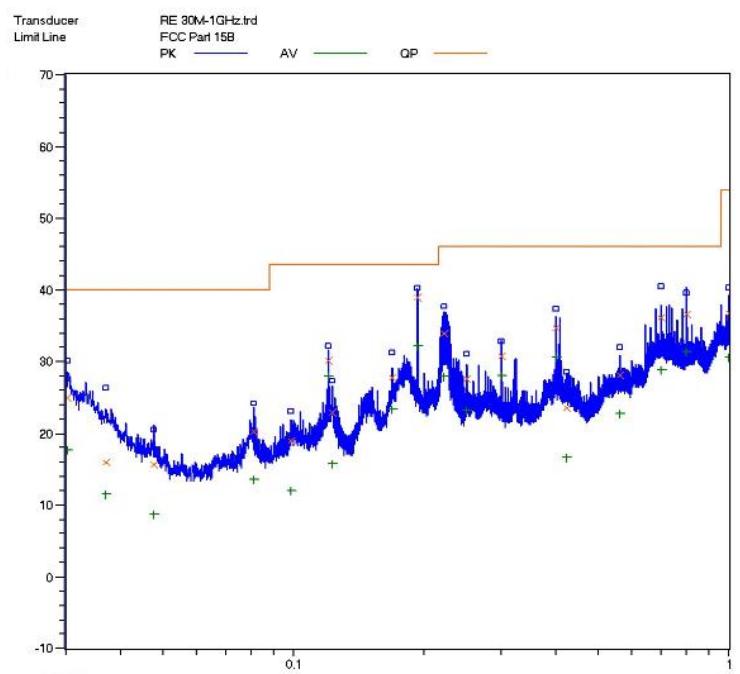
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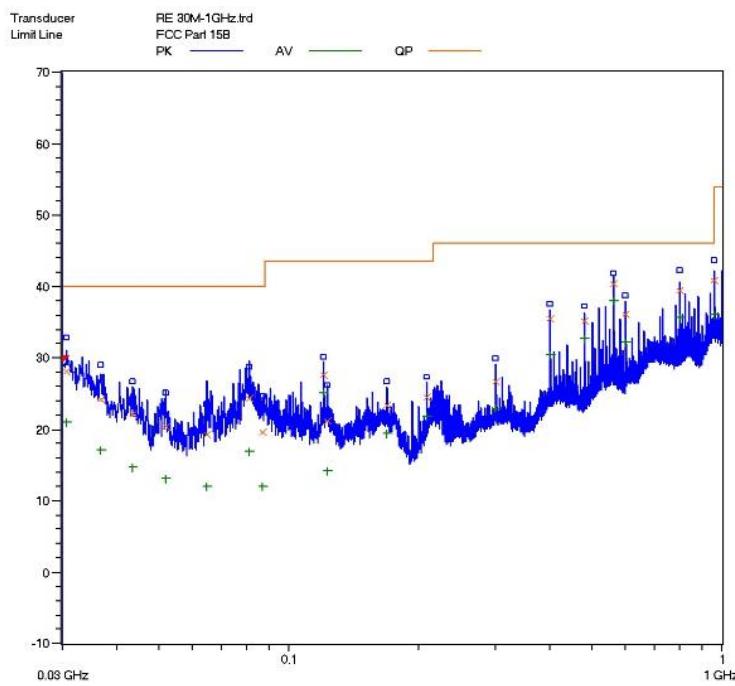
IP Call:



**9KHz-30MHz-Radiated Filed Strength
Emission Test Plot (Peak,maxhold)**

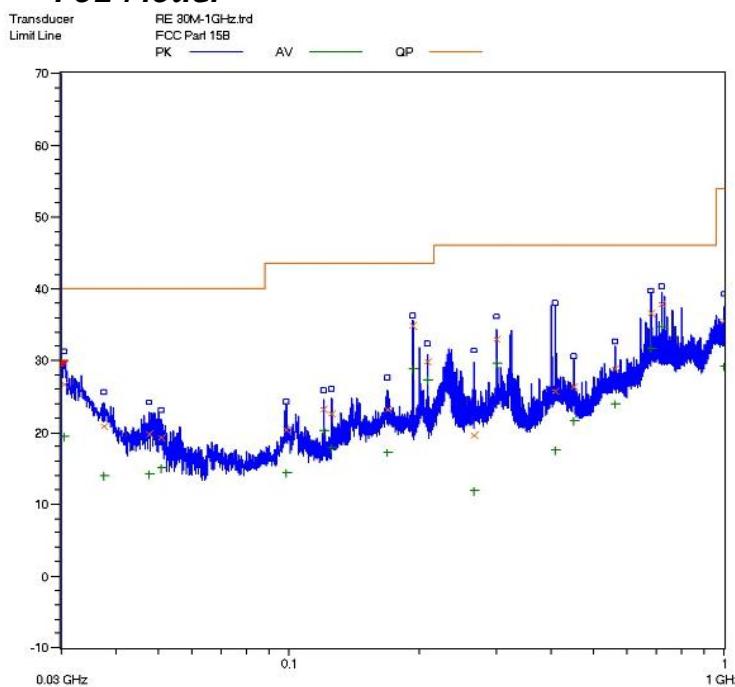


**30MHz-1000MHz-Horizontal: Radiated
Emission Test Plot (Peak,maxhold)**

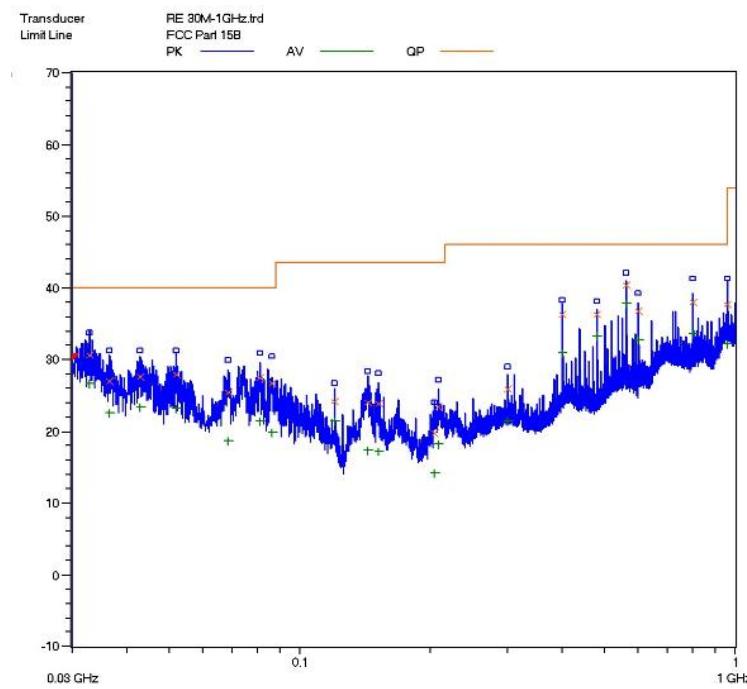


30MHz-1000MHz-Vertical: Radiated Emission Test Plot (Peak,maxhold)

PoE Mode:



30MHz-1000MHz-Horizontal: Radiated Emission Test Plot



30MHz-1000MHz-Vertical:Radiated Emission Test Plot

Test Data:
9KHz to 30MHz:

Test No. #:	Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Reading Level QP (dBuV/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/

Note:

1. The field strength is calculated by adding the antenna factor, cable factor. The basic equation with a sample calculation is as follows: Emission Level =Reading Level + Antenna Factor + Cable Loss.
2. The limits shown are based on quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. the bandwidth of Test Receiver was set at 200Hz in frequency range of 9KHz to 150KHz, 9kHz in the frequency range of 150KHz to 30MHz.
3. IP Call mode was selected for the final testing in frequency range of 9KHz to 30MHz.
4. All emission levels in the frequency range of 9KHz to 30MHz are 20dB below the official limits that are not reported.

Test Data:
IP Call/30MHz-1GHz:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Preamp Factor (dB)	Reading Level QP (dBuV/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
Horizontal							
192.000	0.10	6.4	/	32.50	39.0	43.5	-4.5
221.920	0.12	8.4	/	25.38	33.9	46	-12.1
400.000	0.16	14.7	/	19.84	34.7	46	-11.3
700.000	0.36	20.4	/	15.44	36.2	46	-9.8
800.000	0.39	22.2	/	14.01	36.6	46	-9.4
1000.000	0.44	23.9	/	12.36	36.7	54	-17.3
Vertical							
400.000	0.16	14.7	/	20.64	35.5	46	-10.5
480.000	0.20	17.5	/	17.6	35.3	46	-10.7
560.000	0.30	18.4	/	21.7	40.4	46	-5.6
600.000	0.30	19.1	/	16.7	36.1	46	-9.9
800.000	0.39	22.2	/	16.81	39.4	46	-6.6
960.000	0.44	23.9	/	16.56	40.9	46	-5.1

Note:

1. All readings are quasi-peak unless stated otherwise, using a QPA bandwidth of 120kHz, with a 60 s sweep time. A video filter was not used.
2. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Emission Level =Reading Level + Antenna Factor + Cable Loss -Preamplifier Factor.
3. The other emission levels are 20dB below the official limits that are not reported.

Radiated Emission from 1GHz to 5GHz:

Frequency (GHz)	Cable Loss (dB)	Antenna Factor (dB)	Preamp Factor (dB)	Reading Level (dBuV/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polarization (H/V)
Peak Measurement								
1.169	1.12	24.5	-34.45	-11.84	48.23	74	-25.77	H
1.192	1.20	24.7	-34.45	-11.23	49.12	74	-24.88	H
1.627	1.75	26.8	-33.6	-14.51	47.64	74	-26.36	H
1.169	1.12	24.5	-34.45	-10.84	49.23	74	-24.77	V
1.298	1.45	25.2	-33.6	-12.67	47.58	74	-26.42	V
1.638	1.75	26.8	-33.6	-13.24	48.91	74	-25.09	V
Average Measurement								
1.169	1.12	24.5	-34.45	-21.86	38.21	54	-15.79	H
1.192	1.20	24.7	-34.45	-23.57	36.78	54	-17.22	H
1.627	1.75	26.8	-33.6	-22.94	39.21	54	-14.79	H
1.169	1.12	24.5	-34.45	-21.8	38.27	54	-15.73	V
1.298	1.45	25.2	-33.6	-22.96	37.29	54	-16.71	V
1.638	1.75	26.8	-33.6	-24.96	37.19	54	-16.81	V

Note:

1. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Emission Level =Reading Level + Antenna Factor + Cable Loss -Preamplifier Factor.
2. The limits shown are based on Peak value and Average value detector above 1GHz, the bandwidth of Test Receiver was set at 1MHz above 1GHz.
3. The other emission levels are 20dB below the official limits that are not reported.

PoE Mode/30MHz to 1GHz:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Preamp Factor (dB)	Reading Level QP (dBuV/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
Horizontal							
192.000	0.1	6.4	/	28.3	34.8	43.5	-8.7
207.440	0.12	7.8	/	21.88	29.8	43.5	-13.7
300.000	0.16	13.3	/	19.54	33	46	-13.0
680.000	0.36	20.2	/	16.04	36.6	46	-9.4
720.000	0.39	20.7	/	16.81	37.9	46	-8.1
1000.000	0.44	23.9	/	11.16	35.5	54	-18.5
Vertical							
400.000	0.16	14.7	/	21.54	36.4	46	-9.6
480.000	0.2	17.5	/	18.5	36.2	46	-9.8
560.000	0.3	18.4	/	21.7	40.4	46	-5.6
600.000	0.3	19.1	/	17.3	36.7	46	-9.3
800.000	0.42	22.2	/	15.48	38.1	46	-7.9
957.200	0.44	24	/	13.36	37.8	46	-8.2

Note:

1. All readings are quasi-peak unless stated otherwise, using a QPA bandwidth of 120kHz, with a 60 s sweep time. A video filter was not used.
2. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Emission Level =Reading Level + Antenna Factor + Cable Loss -Preamplifier Factor.
3. The other emission levels are 20dB below the official limits that are not reported.

PoE Mode/ Radiated Emission from 1GHz to 5GHz:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Preamp Factor (dB)	Reading Level (dBuV/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polarization (H/V)
Peak Measurement								
1.169	1.12	24.5	-34.45	-11.8	48.27	74	-25.73	H
1.192	1.20	24.7	-34.45	-13.57	46.78	74	-27.22	H
1.627	1.75	26.8	-33.6	-12.94	49.21	74	-24.79	H
1.169	1.12	24.5	-34.45	-13.53	46.54	74	-27.46	V
1.298	1.45	25.2	-33.6	-12.98	47.27	74	-26.73	V
1.638	1.75	26.8	-33.6	-15.26	46.89	74	-27.11	V
Average Measurement								
1.169	1.12	24.5	-34.45	-23.32	36.75	54	-17.25	H
1.192	1.20	24.7	-34.45	-22.14	38.21	54	-15.79	H
1.627	1.75	26.8	-33.6	-22.94	39.21	54	-14.79	H
1.169	1.12	24.5	-34.45	-23.52	36.55	54	-17.45	V
1.298	1.45	25.2	-33.6	-24.74	35.51	54	-18.49	V
1.638	1.75	26.8	-33.6	-25.83	36.32	54	-17.68	V

Note:

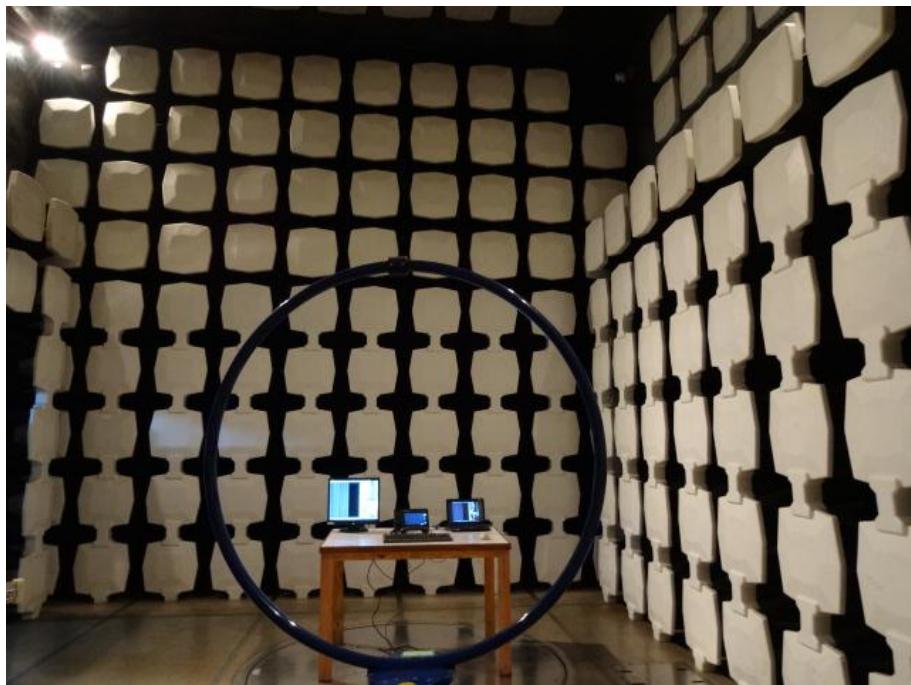
1. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Emission Level =Reading Level + Antenna Factor + Cable Loss -Preamplifier Factor.
2. The limits shown are based on Peak value and Average value detector above 1GHz, the bandwidth of Test Receiver was set at 1MHz above 1GHz.
3. The other emission levels are 20dB below the official limits that are not reported.

Test Equipment List:

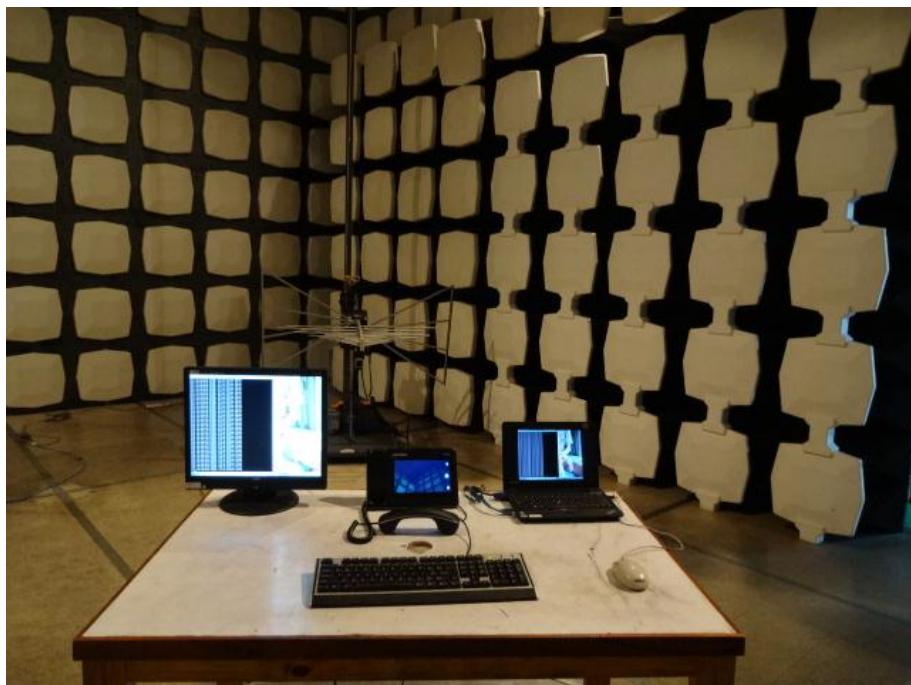
Test Equipment	Model No.	Manufacturer	Serial No.	Last Cal.	Cal. Due
Receiver	SMR4503	SCHAFFNER	11725	2013.07.08	2014.07.07
HF Loop Antenna	HLA6120	TESEQ	26348	2013.09.27	2014.09.26
Double-ridged Wave guide horn	3115	ETS	6587	2013.08.02	2014.08.01
Microwave system amplifier	83017A	Agilent	MY39500438	2013.07.11	2014.07.10
Biconilog Antenna	3142C	ETS	00042672	2013.09.28	2014.09.27
Band-pass Filter	BRM50702	Micro-Tronic	S/N-030	2013.11.30	2014.11.29
Spectrum Analyzer	FSP30	R&S	100755	2013.11.30	2014.11.29
<i>Note: All testing were performed using internationally recognized standards. All test instruments were calibrated.</i>					

TESTED BY: Daomen **GALANZ**
ENGINEER **COMPANY NAME**

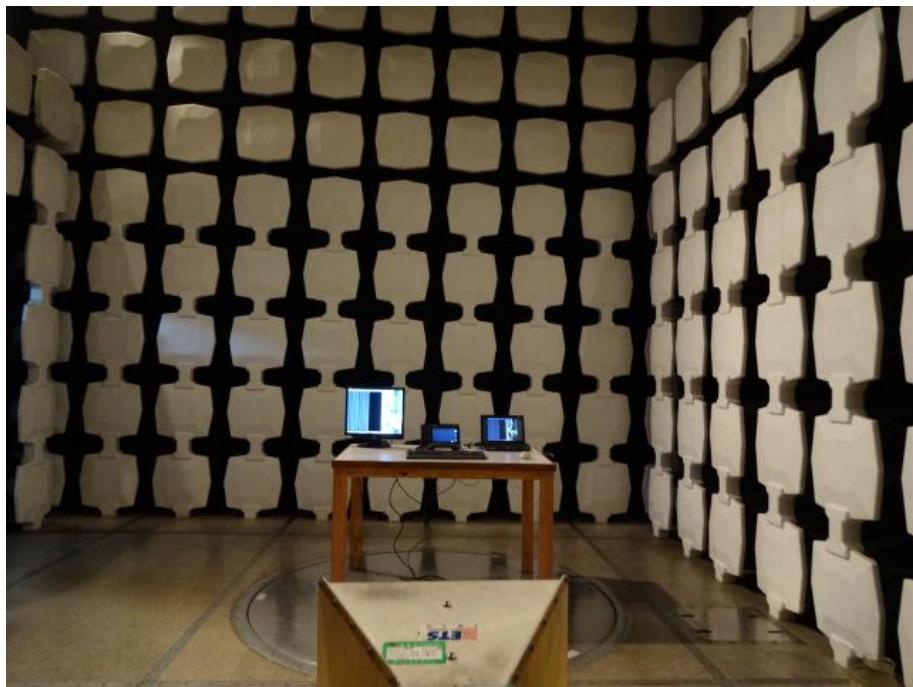
REVIEWED BY: Jawen **ECMG**
SENIOR ENGINEER **COMPANY NAME**



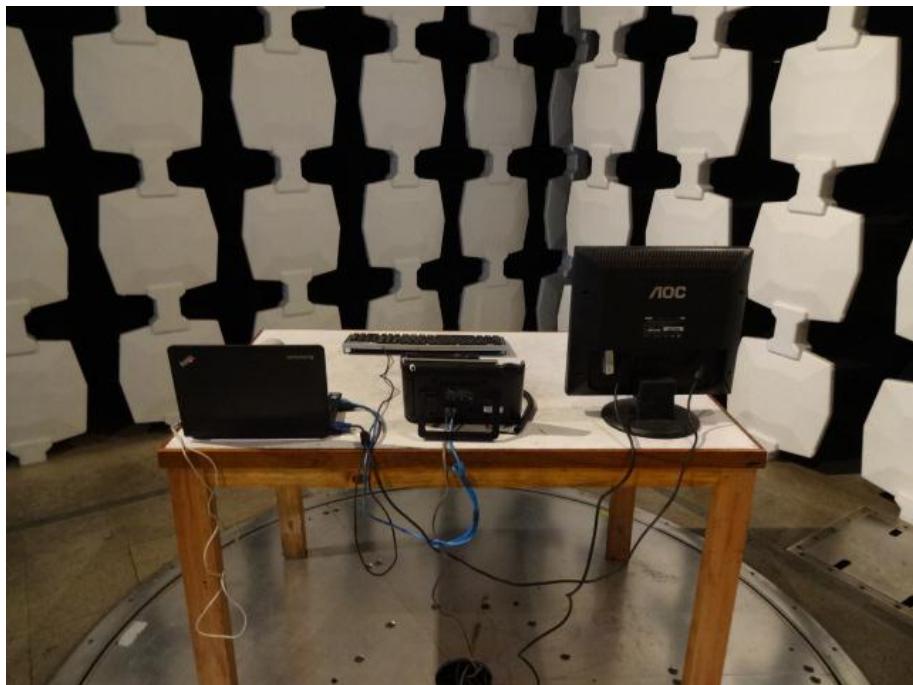
Radiated Emission Test Set-up (9KHz-30MHz)



Radiated Emission Test Set-up (Below 1GHz)



Radiated Emission Test Set-up (Above 1GHz)



Radiated Emission Test Set-up (Rear View)

*** ***End Of Report*** ***