



TESTING LABORATORY
CERTIFICATE #4820.01



FCC PART 15B

TEST REPORT

For

Grandstream Networks, Inc.

126 Brookline Ave., 3rd Floor Boston, MA 02215, USA

FCC ID: YZZGSC3625

Report Type: Original Report	Product Type: FHD Infrared Weatherproof Vari-focal and Auto-Focus IP Box Camera
Test Engineer:	Walker Chen, Asa Chen, Joker Chen <i>Walker Chen</i> <i>Asa Chen</i> <i>Joker Chen</i>
Report Number:	SZ1210301-05132E-00
Report Date:	2021-04-09
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TABLE OF CONTENTS

General Information	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
OBJECTIVE	3
TEST METHODOLOGY	3
MEASUREMENT UNCERTAINTY	3
TEST FACILITY	4
DECLARATIONS	4
System Test Configuration	5
DESCRIPTION OF TEST CONFIGURATION	5
EQUIPMENT MODIFICATIONS	5
EUT EXERCISE SOFTWARE	5
SUPPORT EQUIPMENT LIST AND DETAILS	5
SUPPORT CABLE LIST AND DETAILS	5
BLOCK DIAGRAM OF TEST SETUP	6
TEST EQUIPMENT LIST	7
ENVIRONMENTAL CONDITIONS	7
Summary of Test Results	8
Conducted emissions	9
EUT SETUP	9
EMI TEST RECEIVER SETUP	9
TEST PROCEDURE	10
CORRECTED AMPLITUDE & MARGIN CALCULATION	10
TEST DATA	11
Radiated emissions	15
EUT SETUP	15
EMI TEST RECEIVER SETUP	16
TEST PROCEDURE	16
CORRECTED AMPLITUDE & MARGIN CALCULATION	16
TEST DATA	17

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:	FHD Infrared Weatherproof Vari-focal and Auto-Focus IP Box Camera
EUT Model:	GSC3625
Rated Input Voltage:	DC 12V from AC Adapter or DC 48V from PoE
The Highest Operating Frequency:	804MHz
I/O Ports:	RJ45(PoE), Audio In, Audio Out
EUT Function:	Monitor
Serial Number:	SZ1210301-05132E-EM -S1
EUT Received Date:	2021.03.09
EUT Received Status:	Good

Objective

This report is prepared on behalf of **Grandstream Networks, Inc.** in accordance with Part 2, Subpart J, and Part 15-Subparts A and B of the Federal Communications Commission's rules.

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

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. (Dongguan).

Measurement Uncertainty

Parameter	Measurement Uncertainty
Unwanted Emissions, radiated	30M~200MHz: 4.55 dB, 200M~1GHz: 5.92 dB, 1G~6GHz: 4.98 dB, 6G~18GHz: 5.89 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Temperature	±1 °C
Humidity	±5%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk “★”.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing typical use mode.

Mode 1: Normal working(Powered by AC adapter)

Mode 2: Normal working(Powered by PoE)

Equipment Modifications

No modification was made to the EUT.

EUT Exercise Software

No Software was used in test.

Support Equipment List and Details

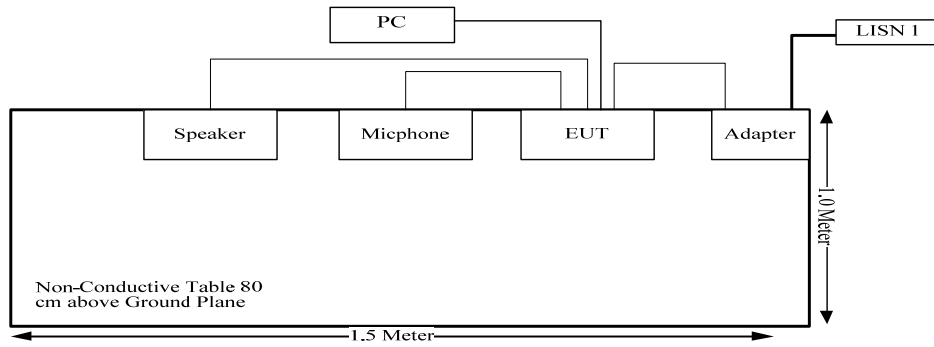
Manufacturer	Description	Model	Serial Number
DELL	PC	E6410ATG	Unknown
Unknown	Speaker	Unknown	Unknown
COSONIC	Micphone	CM-222	Unknown
Unknown	Adapter Input: AC 100-240V~50/60Hz Output: 12V/0.5A	F12DE1200100A	Unknown

Support Cable List and Details

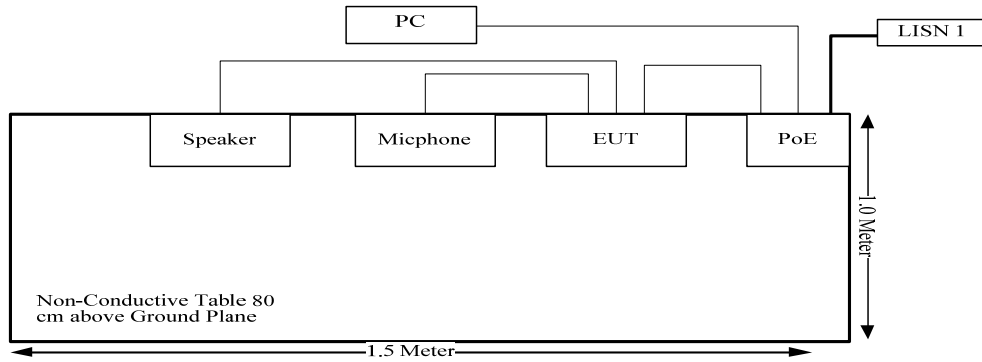
Cable Description	Shielding Cable	Ferrite Core	Length (m)	From Port	To
RJ45 Cable	No	No	2	PoE	PC
RJ45 Cable	No	No	0.8	PoE	EUT
AUX cable	No	No	1	EUT	Speaker
AUX cable	No	No	1.2	EUT	Micphone
Power Cable	No	No	1.2	EUT	Adapter

Block Diagram of Test Setup

Mode 1:



Mode 2:



Test Equipment List

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted emission					
R&S	LISN	ENV 216	101614	2020-09-12	2021-09-12
R&S	EMI Test Receiver	ESCI	101121	2020-07-07	2021-07-07
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2020-09-05	2021-09-05
R&S	Test Software	EMC32	Version 9.10.00	N/A	N/A
Radiated emissions below 1GHz					
Sunol Sciences	Antenna	JB3	A060611-1	2020-11-10	2023-11-10
R&S	EMI Test Receiver	ESR3	102453	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2020-05-06	2021-05-06
HP	Amplifier	8447D	2727A05902	2020-09-05	2021-09-05
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Radiated emissions above 1GHz					
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
Agilent	Spectrum Analyzer	E4440A	SG43360054	2020-07-07	2021-07-07
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2020-09-05	2021-09-05
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	2020-09-05	2021-09-05
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Environmental Conditions

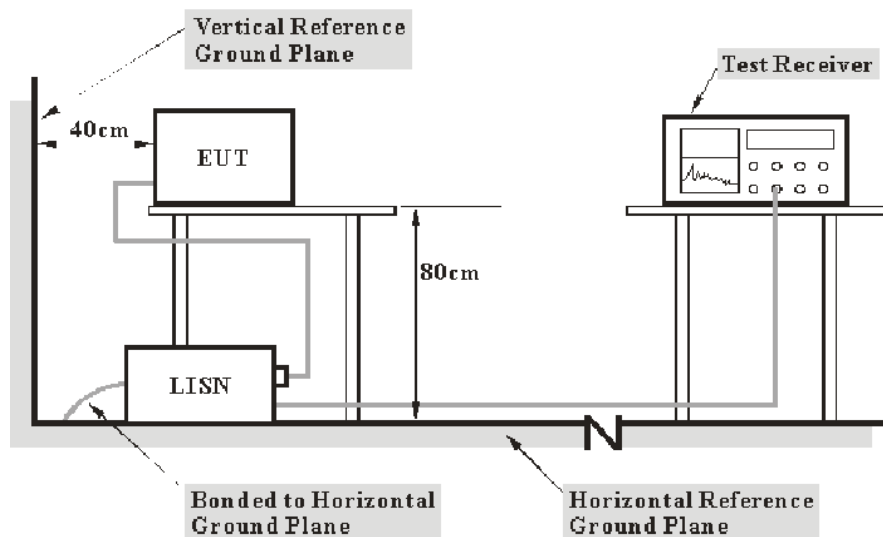
Temperature:	23.8~26.6 °C
Relative Humidity:	40~60 %
ATM Pressure:	101.3~102.1 kPa
Tester:	Walker Chen, Asa Chen, Joker Chen
Test Date:	2021.03.20~2021.03.22

SUMMARY OF TEST RESULTS

Rule and Clause	Description of Test	Test Result
FCC §15.107	Conducted emissions	Compliance
FCC §15.109	Radiated emissions	Compliance

CONDUCTED EMISSIONS

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.

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B 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.

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 adapter was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$\text{Result (QuasiPeak or Average)} = \text{Meter Reading} + \text{Corr.}$$

Note:

$$\text{Corr.} = \text{Cable loss} + \text{Factor of coupling device}$$

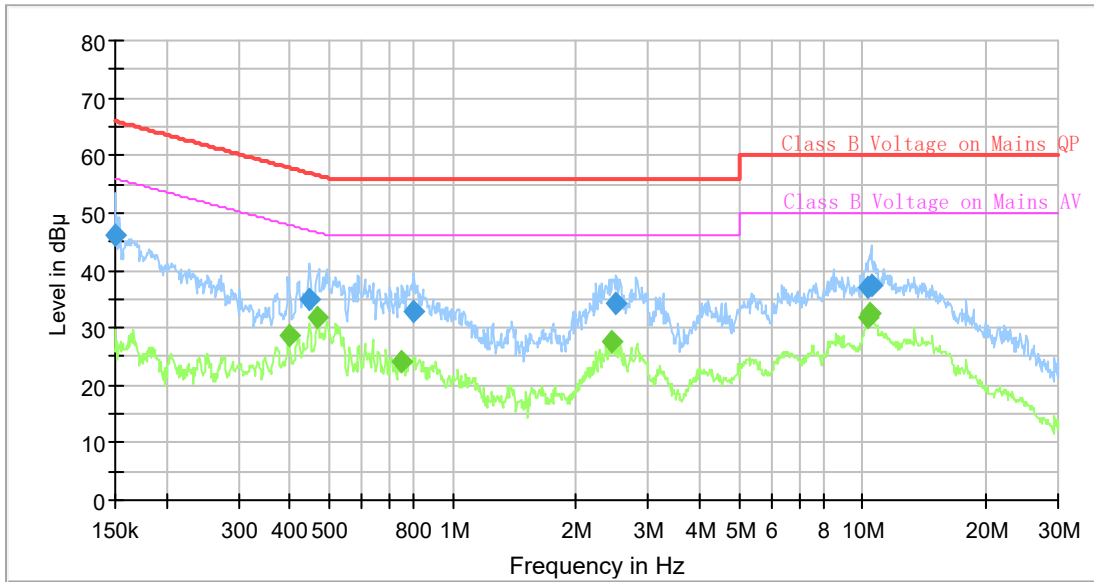
The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Result}$$

Test Data

Please refer to following table and plots:

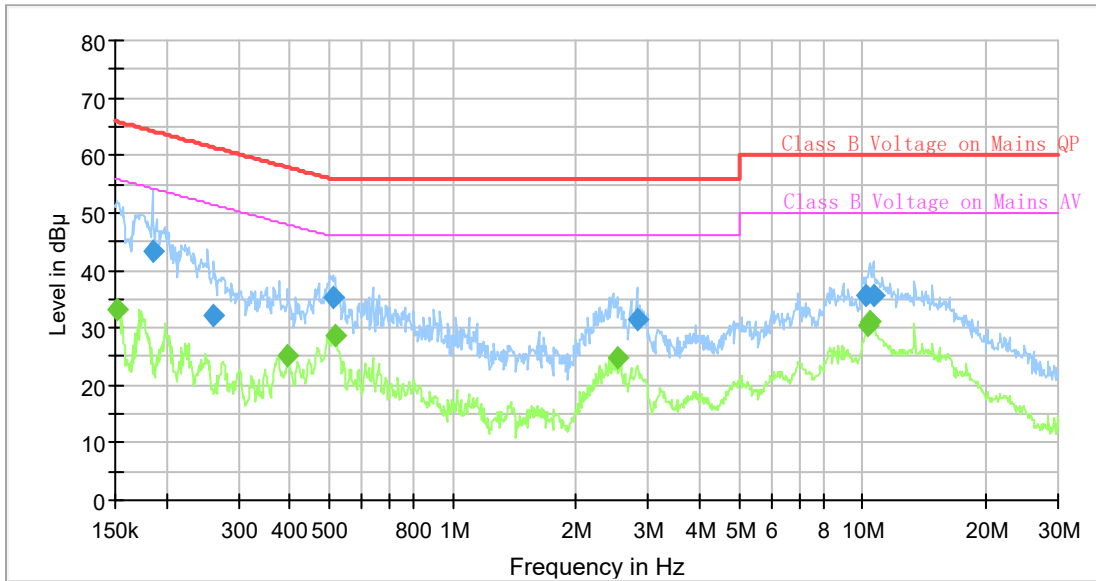
Port: L
 Test Mode: Mode 1: Normal working(Powered by AC adapter)
 Power Source: AC 120V/60Hz
 Note:



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	45.95	---	66.00	20.05	9.000	L1	9.6
0.398694	---	28.52	47.88	19.36	9.000	L1	9.6
0.447156	35.04	---	56.93	21.89	9.000	L1	9.6
0.467685	---	31.96	46.55	14.59	9.000	L1	9.6
0.751154	---	24.00	46.00	22.00	9.000	L1	9.7
0.805479	32.80	---	56.00	23.20	9.000	L1	9.7
2.449547	---	27.52	46.00	18.48	9.000	L1	9.7
2.498907	34.17	---	56.00	21.83	9.000	L1	9.7
10.301765	37.09	---	60.00	22.91	9.000	L1	9.9
10.353274	---	31.74	50.00	18.26	9.000	L1	9.9
10.405040	---	32.41	50.00	17.59	9.000	L1	9.9
10.509350	37.55	---	60.00	22.45	9.000	L1	9.9

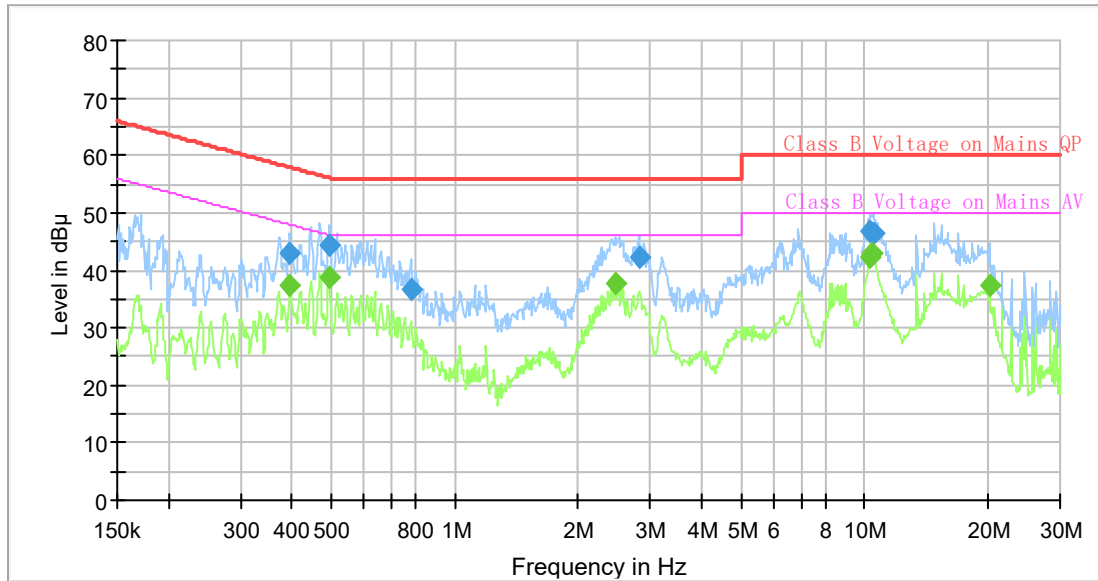
Port: N
 Test Mode: Mode 1: Normal working(Powered by AC adapter)
 Power Source: AC 120V/60Hz
 Note:



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.152261	---	33.02	55.88	22.86	9.000	N	9.6
0.184955	43.42	---	64.26	20.84	9.000	N	9.6
0.260930	32.13	---	61.40	29.27	9.000	N	9.6
0.396710	---	25.20	47.92	22.72	9.000	N	9.6
0.509069	35.40	---	56.00	20.60	9.000	N	9.6
0.514172	---	28.79	46.00	17.21	9.000	N	9.6
2.511402	---	24.76	46.00	21.24	9.000	N	9.6
2.816667	31.43	---	56.00	24.57	9.000	N	9.6
10.199515	35.69	---	60.00	24.31	9.000	N	9.7
10.250512	---	30.39	50.00	19.61	9.000	N	9.7
10.405040	---	31.16	50.00	18.84	9.000	N	9.7
10.614707	35.80	---	60.00	24.20	9.000	N	9.7

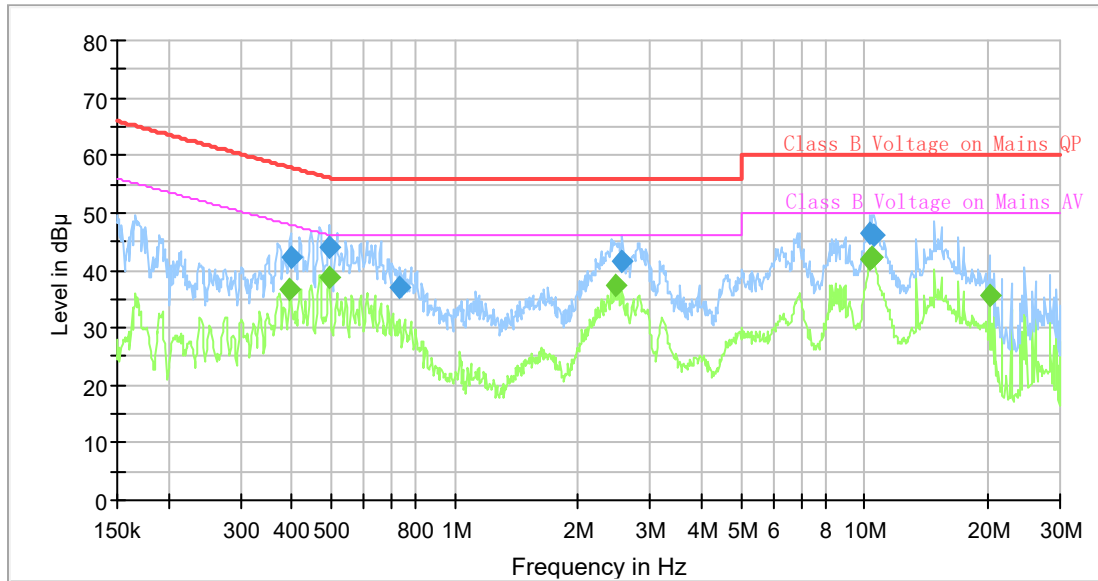
Port: L
 Test Mode: Mode 2: Normal working(Powered by POE)
 Power Source: AC 120V/60Hz
 Note:



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.396710	---	37.21	47.92	10.71	9.000	L1	9.6
0.396710	42.97	---	57.92	14.95	9.000	L1	9.6
0.494060	---	38.74	46.10	7.36	9.000	L1	9.6
0.494060	44.20	---	56.10	11.90	9.000	L1	9.6
0.781732	36.57	---	56.00	19.43	9.000	L1	9.7
2.461795	---	37.59	46.00	8.41	9.000	L1	9.7
2.816667	42.28	---	56.00	13.72	9.000	L1	9.7
10.353274	---	42.22	50.00	7.78	9.000	L1	9.9
10.353274	46.82	---	60.00	13.18	9.000	L1	9.9
10.405040	---	42.81	50.00	7.19	9.000	L1	9.9
10.509350	46.38	---	60.00	13.62	9.000	L1	9.9
20.199004	---	37.32	50.00	12.68	9.000	L1	10.0

Port: N
 Test Mode: Mode 2: Normal working(Powered by POE)
 Power Source: AC 120V/60Hz
 Note:



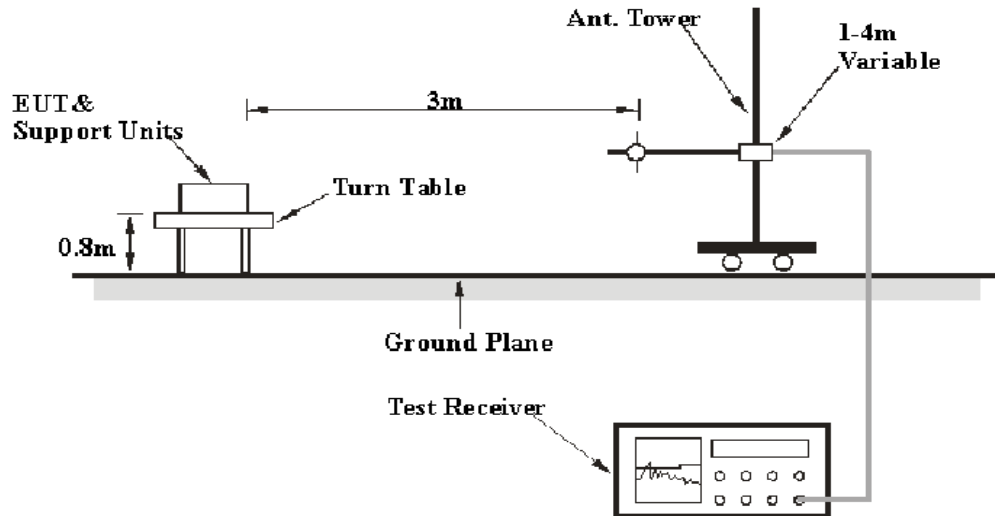
Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.396710	---	36.80	47.92	11.12	9.000	N	9.6
0.398694	42.27	---	57.88	15.61	9.000	N	9.6
0.494060	---	38.85	46.10	7.25	9.000	N	9.6
0.494060	44.05	---	56.10	12.05	9.000	N	9.6
0.736317	37.17	---	56.00	18.83	9.000	N	9.6
2.461795	---	37.54	46.00	8.46	9.000	N	9.6
2.562008	41.67	---	56.00	14.33	9.000	N	9.6
10.353274	---	41.90	50.00	8.10	9.000	N	9.7
10.353274	46.53	---	60.00	13.47	9.000	N	9.7
10.405040	---	42.41	50.00	7.59	9.000	N	9.7
10.561897	45.94	---	60.00	14.06	9.000	N	9.7
20.199004	---	35.63	50.00	14.37	9.000	N	9.9

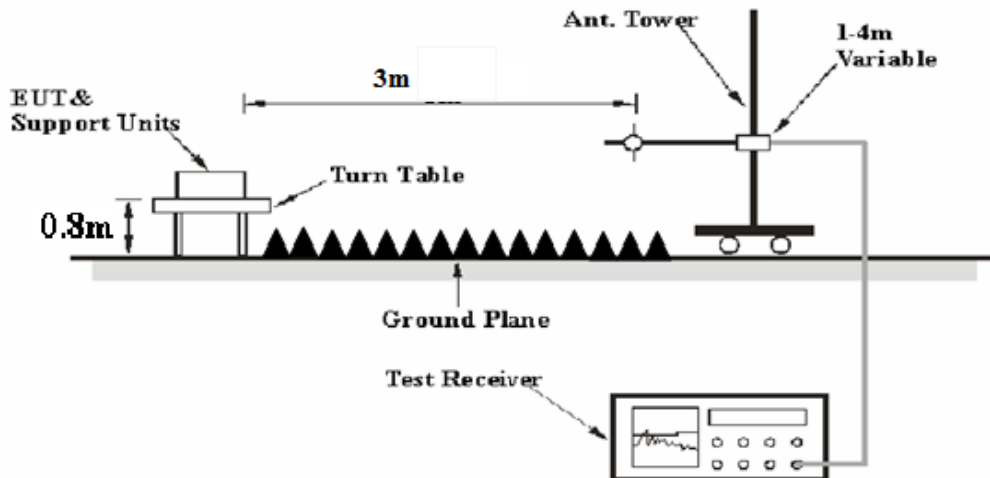
RADIATED EMISSIONS

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission below 1GHz tests were performed in the 10 meters chamber test site in 3 meter distance, above 1GHz tests were performed in the 3 meters chamber test site B, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 5 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	Measurement
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	10Hz	/	AVG

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

During the radiated emissions, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

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

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

All emissions under the average limit and under the noise floor have not recorded in the report.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Meter Reading+ Corrected

Note:

Corrected = Antenna Factor + Cable Loss - Amplifier Gain

or

Corrected = Antenna Factor + Cable Loss + Insertion loss of attenuator - 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:

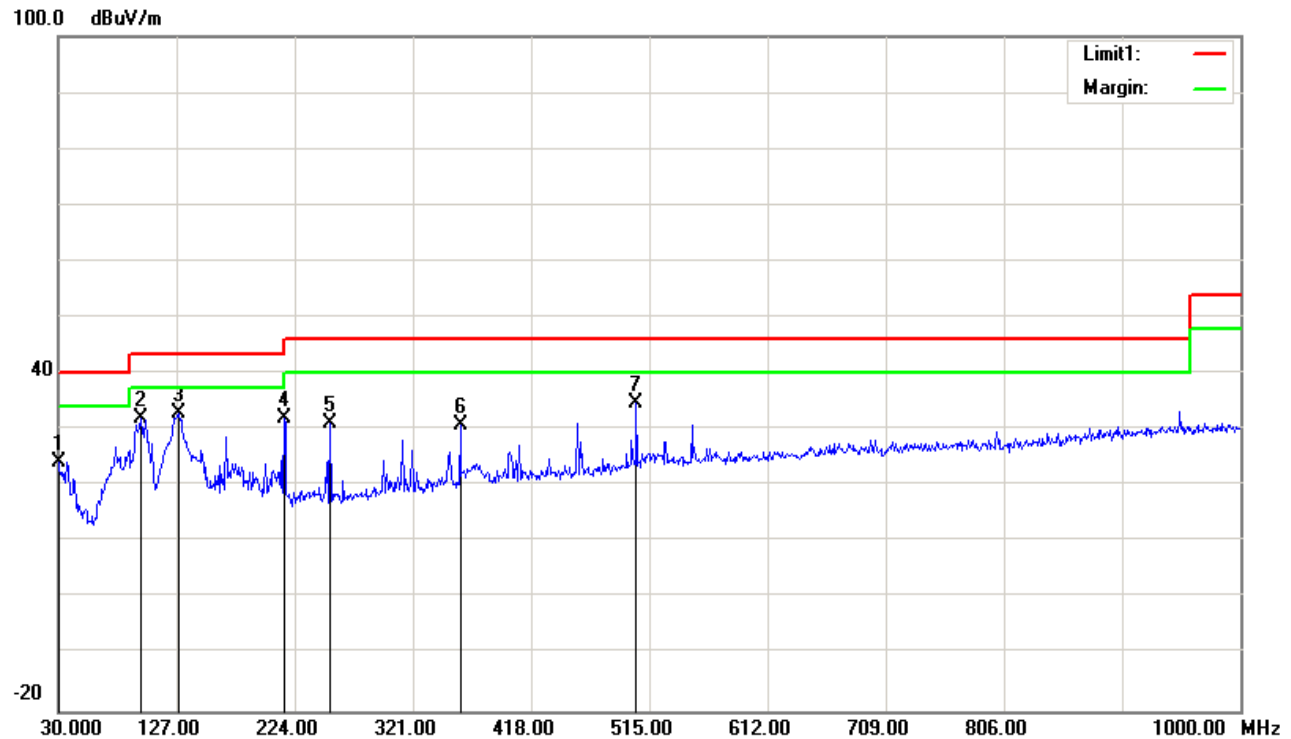
$$\text{Margin} = \text{Limit} - \text{Result}$$

Test Data

Please refer to following table and plots:

Condition: FCC Part 15B Class B
EUT: FHD Infrared Weatherproof Vari-focal and Auto-Focus IP Box Camera
Model: GSC3625
Test Mode: Normal working(Powered by AC adapter)

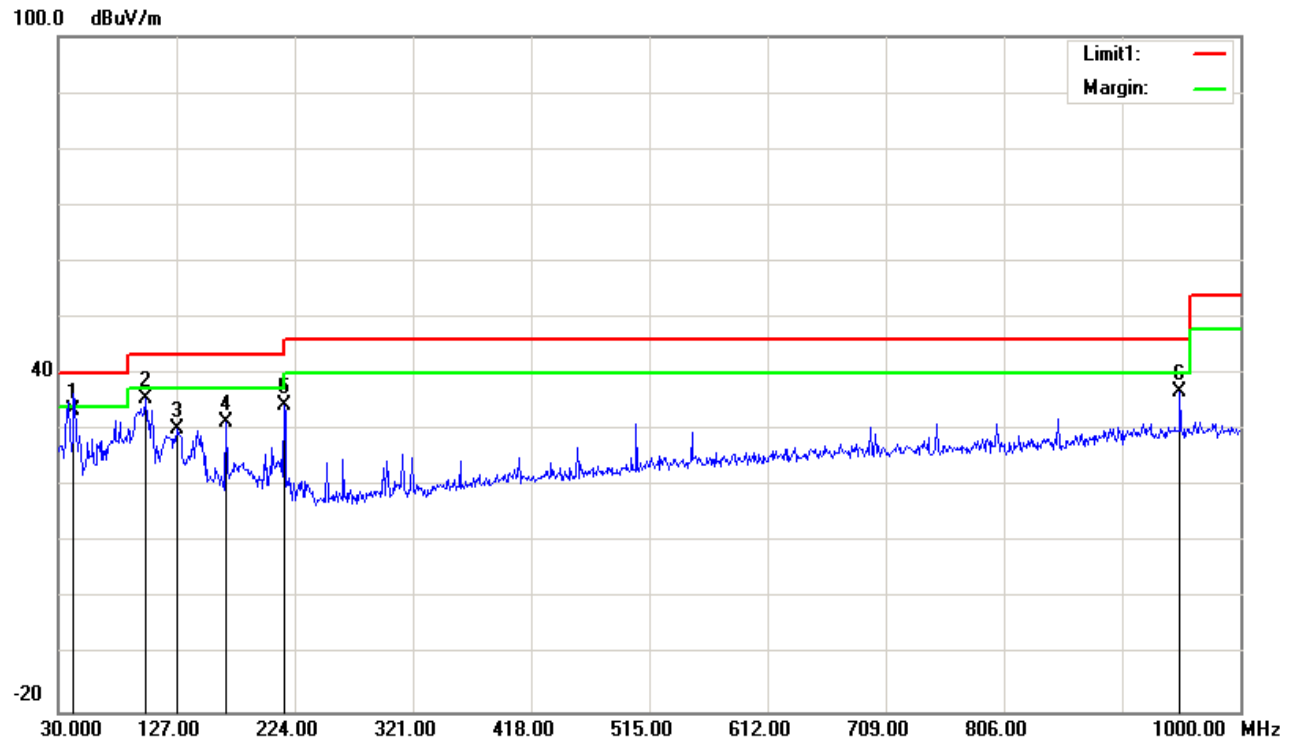
Polarization: Horizontal
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	30.0000	28.37	peak	-4.10	24.27	40.00	15.73
2	97.9000	46.24	peak	-14.22	32.02	43.50	11.48
3	128.9400	43.06	peak	-10.02	33.04	43.50	10.46
4	215.2700	43.19	peak	-11.19	32.00	43.50	11.50
5	253.1000	40.64	peak	-9.53	31.11	46.00	14.89
6	359.8000	36.74	peak	-5.95	30.79	46.00	15.21
7	504.3300	38.04	peak	-3.26	34.78	46.00	11.22

Condition: FCC Part 15B Class B
EUT: FHD Infrared Weatherproof Vari-focal and
Auto-Focus IP Box Camera
Model: GSC3625
Test Mode: Normal working(Powered by AC adapter)

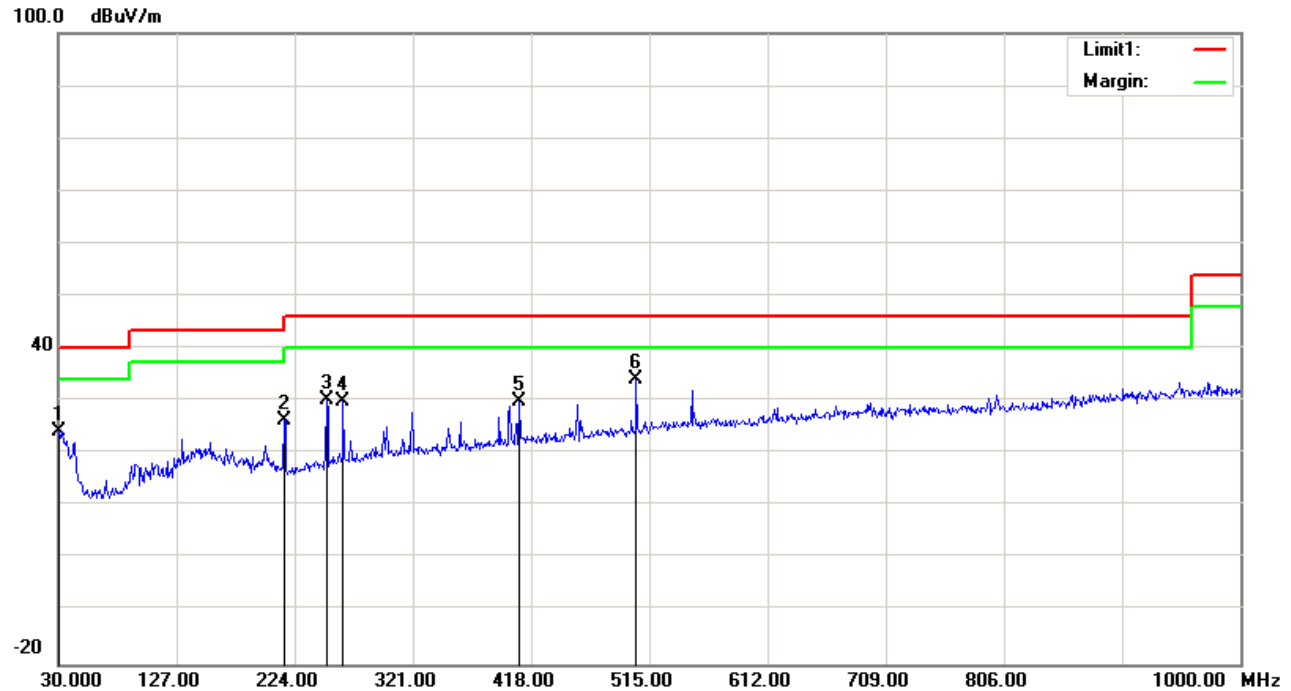
Polarization: Vertical
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1	42.6100	44.65	QP	-11.05	33.60	40.00	6.40
2	101.7800	49.60	peak	-13.83	35.77	43.50	7.73
3	127.9700	40.52	peak	-10.37	30.15	43.50	13.35
4	167.7400	41.03	peak	-9.44	31.59	43.50	11.91
5	215.2700	45.65	peak	-11.19	34.46	43.50	9.04
6	950.5300	32.20	peak	4.69	36.89	46.00	9.11

Condition: FCC Part 15B Class B
EUT: FHD Infrared Weatherproof Vari-focal and
Auto-Focus IP Box Camera
Model: GSC3625
Test Mode: Normal working(Powered by PoE)

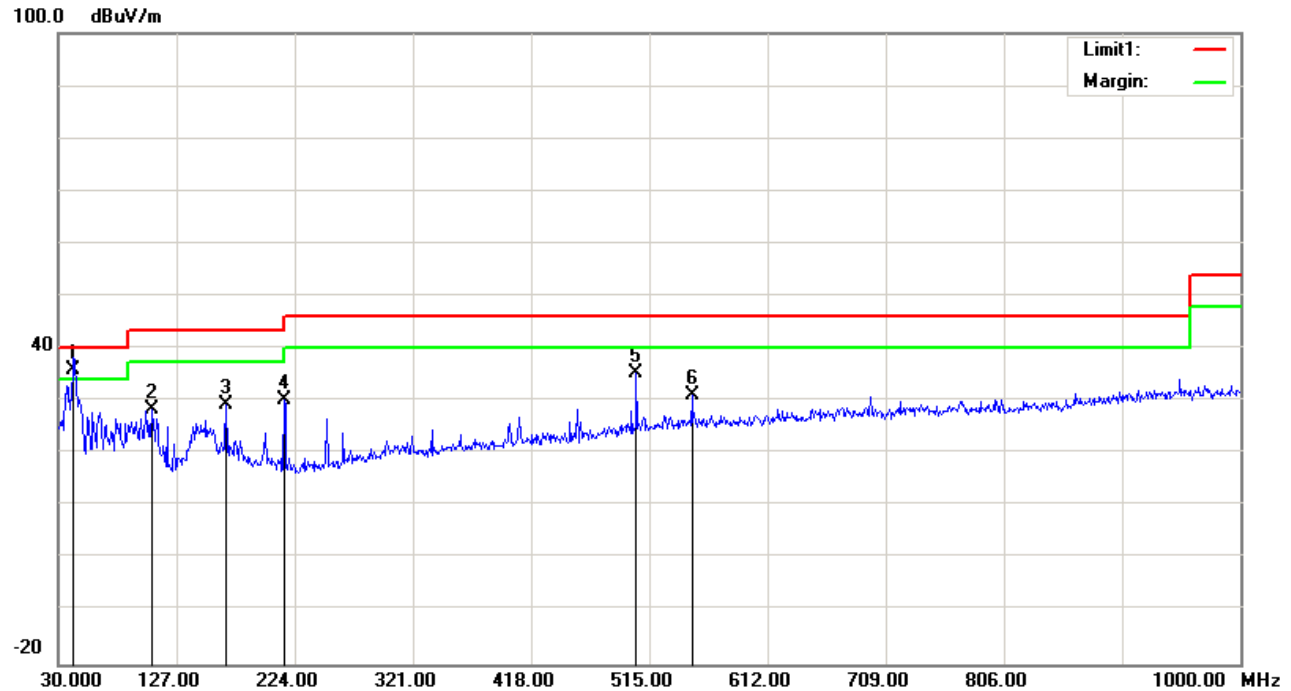
Polarization: Horizontal
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	30.9700	28.93	peak	-4.66	24.27	40.00	15.73
2	215.2700	37.57	peak	-11.19	26.38	43.50	17.12
3	250.1900	40.11	peak	-9.73	30.38	46.00	15.62
4	263.7700	38.96	peak	-8.88	30.08	46.00	15.92
5	408.3000	34.99	peak	-4.92	30.07	46.00	15.93
6	504.3300	37.31	peak	-3.26	34.05	46.00	11.95

Condition: FCC Part 15B Class B
EUT: FHD Infrared Weatherproof Vari-focal and Auto-Focus IP Box Camera
Model: GSC3625
Test Mode: Normal working(Powered by PoE)

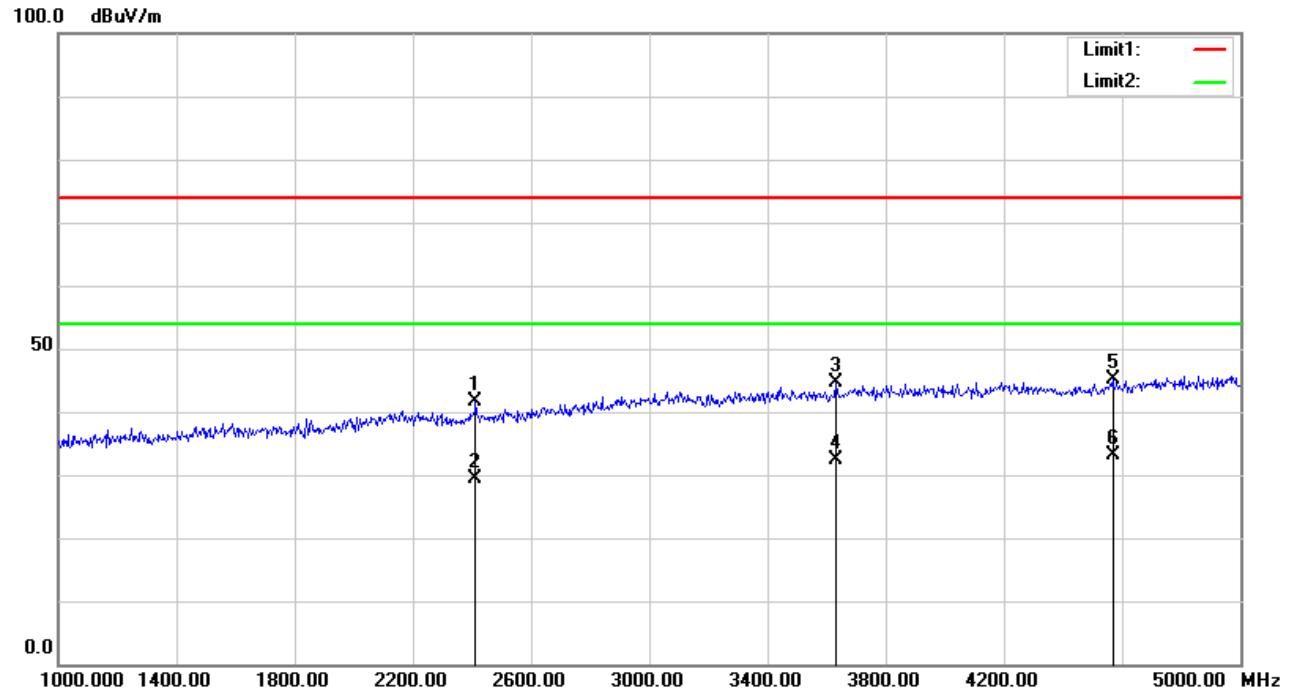
Polarization: Vertical
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	42.6100	46.95	QP	-11.05	35.90	40.00	4.10
2	106.6300	41.90	peak	-13.31	28.59	43.50	14.91
3	167.7400	38.80	peak	-9.44	29.36	43.50	14.14
4	215.2700	41.48	peak	-11.19	30.29	43.50	13.21
5	504.3300	38.63	peak	-3.26	35.37	46.00	10.63
6	549.9200	33.04	peak	-1.82	31.22	46.00	14.78

Condition: FCC Part 15B Class B
EUT: FHD Infrared Weatherproof Vari-focal and
Auto-Focus IP Box Camera
Model: GSC3625
Test Mode: Normal working(Powered by AC adapter)

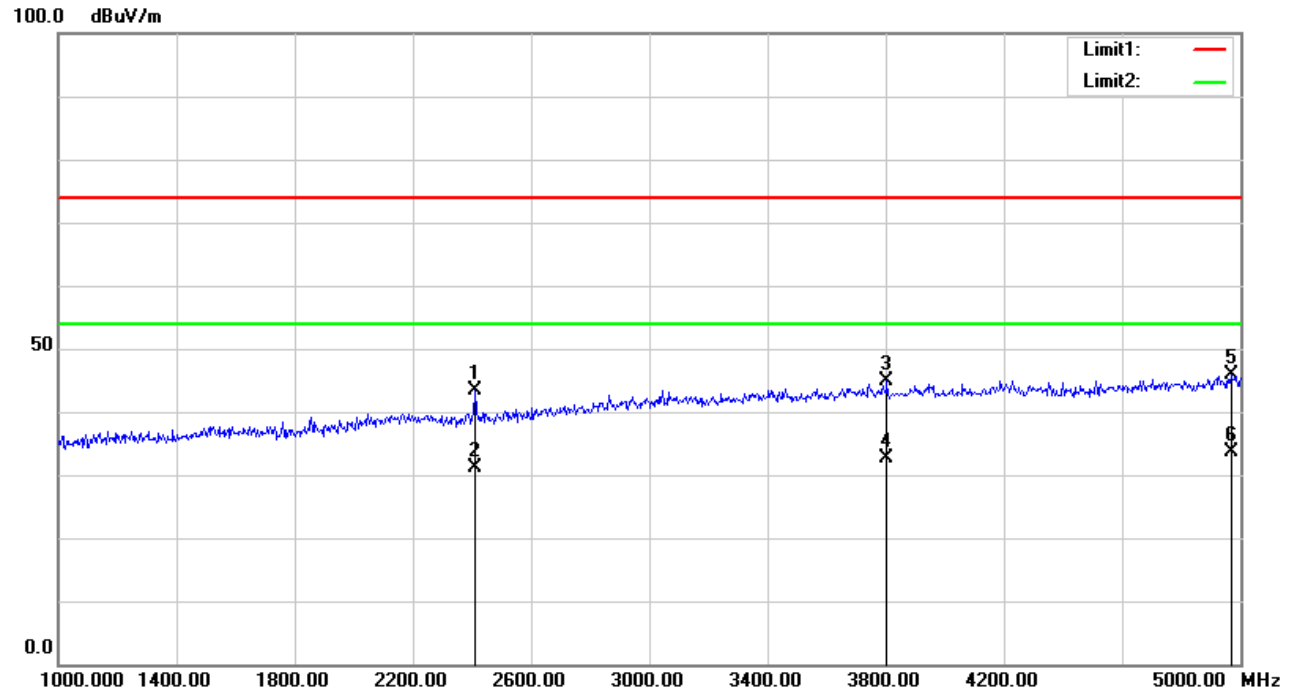
Polarization: Horizontal
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2414.000	37.90	peak	3.66	41.56	74.00	32.44
2	2414.000	25.78	AVG	3.66	29.44	54.00	24.56
3	3632.000	36.47	peak	8.10	44.57	74.00	29.43
4	3632.000	24.35	AVG	8.10	32.45	54.00	21.55
5	4568.000	35.31	peak	9.75	45.06	74.00	28.94
6	4568.000	23.44	AVG	9.75	33.19	54.00	20.81

Condition: FCC Part 15B Class B
EUT: FHD Infrared Weatherproof Vari-focal and Auto-Focus IP Box Camera
Model: GSC3625
Test Mode: Normal working(Powered by AC adapter)

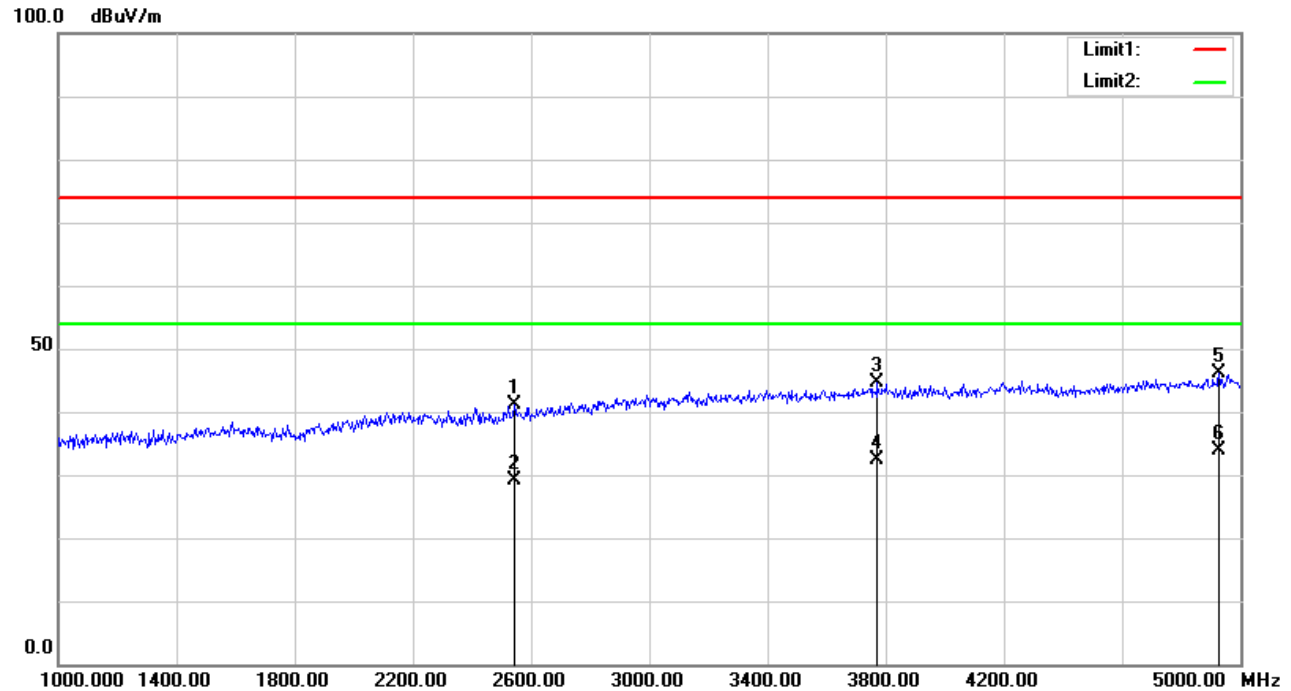
Polarization: Vertical
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2412.000	39.80	peak	3.65	43.45	74.00	30.55
2	2412.000	27.59	AVG	3.65	31.24	54.00	22.76
3	3806.000	36.12	peak	8.66	44.78	74.00	29.22
4	3806.000	24.06	AVG	8.66	32.72	54.00	21.28
5	4970.000	34.99	peak	10.84	45.83	74.00	28.17
6	4970.000	22.83	AVG	10.84	33.67	54.00	20.33

Condition: FCC Part 15B Class B
EUT: FHD Infrared Weatherproof Vari-focal and
Auto-Focus IP Box Camera
Model: GSC3625
Test Mode: Mode 2: Normal working(Powered by PoE)

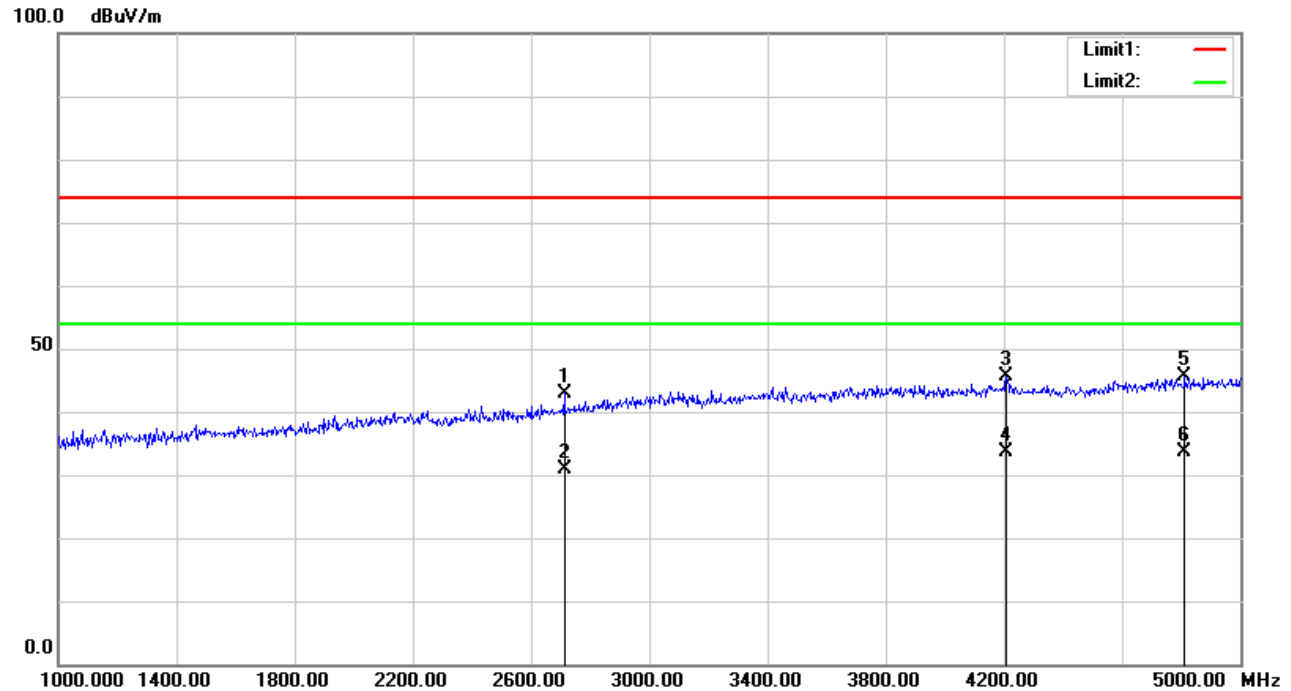
Polarization: Horizontal
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2544.000	37.12	peak	4.09	41.21	74.00	32.79
2	2544.000	25.01	AVG	4.09	29.10	54.00	24.90
3	3774.000	35.93	peak	8.58	44.51	74.00	29.49
4	3774.000	23.81	AVG	8.58	32.39	54.00	21.61
5	4930.000	35.39	peak	10.77	46.16	74.00	27.84
6	4930.000	23.14	AVG	10.77	33.91	54.00	20.09

Condition: FCC Part 15B Class B
EUT: FHD Infrared Weatherproof Vari-focal and
Auto-Focus IP Box Camera
Model: GSC3625
Test Mode: Mode 2: Normal working(Powered by PoE)

Polarization: Vertical
Power: AC 120V/60Hz
Distance: 3m



No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2714.000	38.16	peak	4.84	43.00	74.00	31.00
2	2714.000	26.05	AVG	4.84	30.89	54.00	23.11
3	4210.000	36.25	peak	9.35	45.60	74.00	28.40
4	4210.000	24.37	AVG	9.35	33.72	54.00	20.28
5	4812.000	35.12	peak	10.49	45.61	74.00	28.39
6	4812.000	23.19	AVG	10.49	33.68	54.00	20.32

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