

# Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC153725

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# **FCC Radio Test Report** FCC ID: 2AL56GF-H100

## **Original Grant**

Report No. TB-FCC153725

Shenzhen Goodflys Technology Co.,Ltd. **Applicant** 

**Equipment Under Test (EUT)** 

**EUT Name Smart Clock Camera** 

Model No. GF-H100base

GF-PH100pro, GF-PH100base, GF-PH100pro, GF-L100base,

Series Model No. GF-L100pro, GF-T100base, GF-T100pro, GF-L200base,

GF-L200pro

**Brand Name** Lizvie

**Receipt Date** 2017-05-02

**Test Date** 2017-05-03 to 2017-05-16

**Issue Date** 2017-05-17

FCC Part 15, Subpart C (15.247:2016) **Standards** 

ANSI C63.10: 2013 **Test Method** 

Conclusions **PASS** 

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC and IC requirements

**Test/Witness Engineer** 

Approved& **Authorized** 

the report.

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in

TB-RF-074-1.0

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TOBY

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# 1. General Information about EUT

#### 1.1 Client Information

**Applicant**: Shenzhen Goodflys Technology Co.,Ltd.

Address: 308 Room 3th Floor Building A, Qinye Business Center, Xin an 6 Road,

Xixiang Town, Baoan District, Shenzhen, Guangdong, China

Manufacturer : Shenzhen Goodflys Technology Co.,Ltd.

Address: 308 Room 3th Floor Building A, Qinye Business Center, Xin an 6 Road,

Xixiang Town, Baoan District, Shenzhen, Guangdong, China

### 1.2 General Description of EUT (Equipment Under Test)

<b>EUT Name</b>		Smart Clock Camera		
Models No.			100pro, GF-PH100base, GF-PH100pro, 0pro, GF-T100base, GF-T100pro, 0pro	
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.		
		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz	
		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40):9 channels see note(3)	
Product		RF Output Power:	802.11b: 9.28 dBm 802.11g: 9.17 dBm 802.11n (HT20): 9.14 dBm 802.11n (HT40): 9.05 dBm	
Description	1	Antenna Gain:	2 dBi Integral Antenna	
	TOBY	Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM, 64QAM)	
	Bit Rate of Transmitter:		802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps	
Power Supply	N.	DC 5V by USB Cable. DC 3.6V by 9.0Wh Li-io		
Connecting I/O Port(S)		Please refer to the User's Manual		

#### Note:

- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v04.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or



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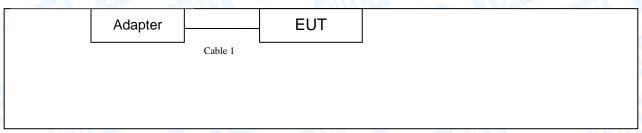
the User's Manual.

## (3) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		
Note:CH 01~CH 11	for 802.11b/g/n(HT2	0), CH 03~CH 09 for	802.11n(HT40)		

- (4) The Antenna information about the equipment is provided by the applicant.
- 1.3 Block Diagram Showing the Configuration of System Tested

## **USB Charging Mode**



#### TX Mode



# 1.4 Description of Support Units

	E	Equipment Informa	tion	
Name	Model	FCC ID/VOC	Manufacturer	Used "√"
AC/DC Adapter	TEKA012	VOC	TEKA	\(\sqrt{\sq}\sqrt{\sq}}\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}
AC/DC Adapter:	Input:100~240V, 50/60	OHz, 0.2A. Output: 5V	′, 1A	1
		Cable Information		
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	YES	YES	1.2M	2 CALL



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# 1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For (	Conducted Test
Final Test Mode	Description
Mode 1	USB Charging with TX B Mode

	For Radiated Test
Final Test Mode	Description
Mode 2	TX Mode B Mode Channel 01/06/11
Mode 3	TX Mode G Mode Channel 01/06/11
Mode 4	TX Mode N(HT20) Mode Channel 01/06/11
Mode 5	TX Mode N(HT40) Mode Channel 03/06/09

#### Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, Middle, lowest available channels, and the worst case data rate as follows:

802.11b Mode: CCK (1 Mbps) 802.11g Mode: OFDM (6 Mbps)

802.11n (HT20) Mode: MCS 0 (6.5 Mbps) 802.11n (HT40) Mode: MCS 0 (13 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a fixed unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



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# 1.6 Description of Test Software Setting

During testing channel&Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software Version	1000	MT7601USB.exe	
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	DEF	DEF	DEF
IEEE 802.11g OFDM	DEF	DEF	DEF
IEEE 802.11n (HT20)	DEF	DEF	DEF
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	DEF	DEF	DEF

# 1.7 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U <sub>Lab</sub> )
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Dedicted Emission	Level Accuracy:	.4.00 dD
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Dedicted Emission	Level Accuracy:	.4.40 JD
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Dadiated Emission	Level Accuracy:	.4.20 dD
Radiated Emission	Above 1000MHz	±4.20 dB



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## 1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

#### CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

#### FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

### IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.



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# 2. Test Summary

	FCC Part	t 15 Subpart C(15.247)/ RSS 247	Issue 1	
Standa	rd Section	Test Item	lucal arras a rat	Damani
FCC	IC	rest item	Judgment	Remark
15.203	1	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Band Edge	PASS	N/A
15.247(d)& 15.209	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A

Note: "/" for no requirement for this test item.

N/A is an abbreviation for Not Applicable.



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# 3. Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
LISN	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
Radiation	<b>Emission Tes</b>	t			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.25, 2017	Mar. 24, 2018
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.25, 2017	Mar. 24, 2018
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.24, 2017	Mar. 23, 2018
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.24, 2017	Mar. 23, 2018
Loop Antenna	Laplace instrument	RF300	0701	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	Sonoma	310N	185903	Mar.25, 2017	Mar. 24, 2018
Pre-amplifier	HP	8449B	3008A00849	Mar.26, 2016	Mar. 25, 2017
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.26, 2016	Mar. 25, 2017
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna C	Conducted Em	ission			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Power Meter	Anritsu	ML2495A	25406005	Jul. 22, 2016	Jul. 21, 2017
Power Sensor	Anritsu	ML2411B	25406005	Jul. 22, 2016	Jul. 21, 2017
Power Sensor	Anritsu	ML2411B	25406005	Jul. 22, 2016	Jul. 21, 2



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# 4. Conducted Emission Test

#### 4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

#### 4.1.2 Test Limit

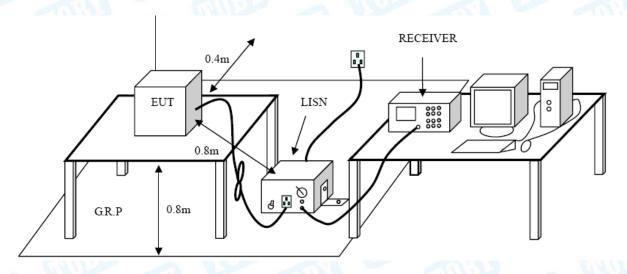
#### **Conducted Emission Test Limit**

Tunana (TIII)	Maximum RF Lin	e Voltage (dBμV)
Frequency	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

#### Notes:

- (1) \*Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.2 Test Setup



#### 4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.



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I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

## 4.4 EUT Operating Mode

Please refer to the description of test mode.

#### 4.5 Test Data

Please see the next page.



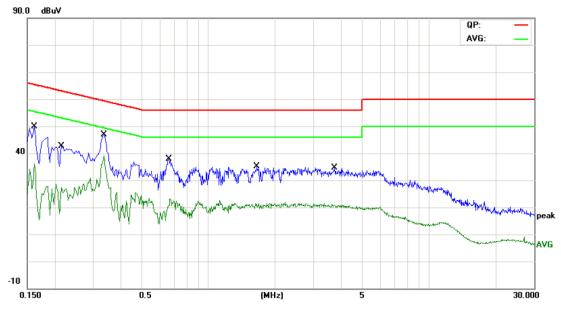
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EUT:	Smart (	Clock Came	ra <b>Mod</b>	el Name :	G	F-H100b	ase
Temperature:	25 ℃	CITI	Rela	tive Humidi	i <b>ty</b> : 5	5%	Birry
Test Voltage:	AC 120	)V/60Hz	1000		611	11.30	
Terminal:	Line		Din.		I B		THE STATE
Test Mode:	Chargir	ng with TX E	3 Mode	THE POST		a W	N. Carlot
Remark:	Only w	orse case is	reported			13	
90.0 dBuV							
						QP: AVG:	
My	X						
40 1	A THUMPHANANA	A h Ma wa	du Na Maria da maria da				
Manded		r raddel gan ulbud	's Machallan (Carlo	( handalahalahalahan)	N. America		
,(J.M)	" Inday and who	philipholas when a marker of	والمعارض والمراجع والمعارض والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراج	- hadadania	A haddy paledy the	haper of the second of the second of	Mary I
	1			and the second	and the state of t		peak
						and the second second	AVG
0.150	0.5		(MHz)	5			30.000
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
INO. IVIK.	MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector
1	0.1660	36.29	9.95	46.24		-18.91	QP
	0.1660	18.61	9.95	28.56		-26.59	AVG
	0.2029	31.70	10.02	41.72		-21.77	QP
	0.2029	16.55	10.02	26.57		-26.92	AVG
5	0.3379	36.26	10.02	46.28	59.25	-12.97	QP
6 *	0.3379	26.62	10.02	36.64	49.25	-12.61	AVG
7	0.6660	26.96	10.10	37.06	56.00	-18.94	QP
8	0.6660	16.21	10.10	26.31	46.00	-19.69	AVG
9	1.0300	24.13	10.06	34.19	56.00	-21.81	QP
10	1.0300	13.39	10.06	23.45	46.00	-22.55	AVG
	1.7900	22.81	10.06	32.87		-23.13	QP
	1.7900	13.84	10.06	23.90		-22.10	AVG
12	1 / 3/11/11						, , , , ,



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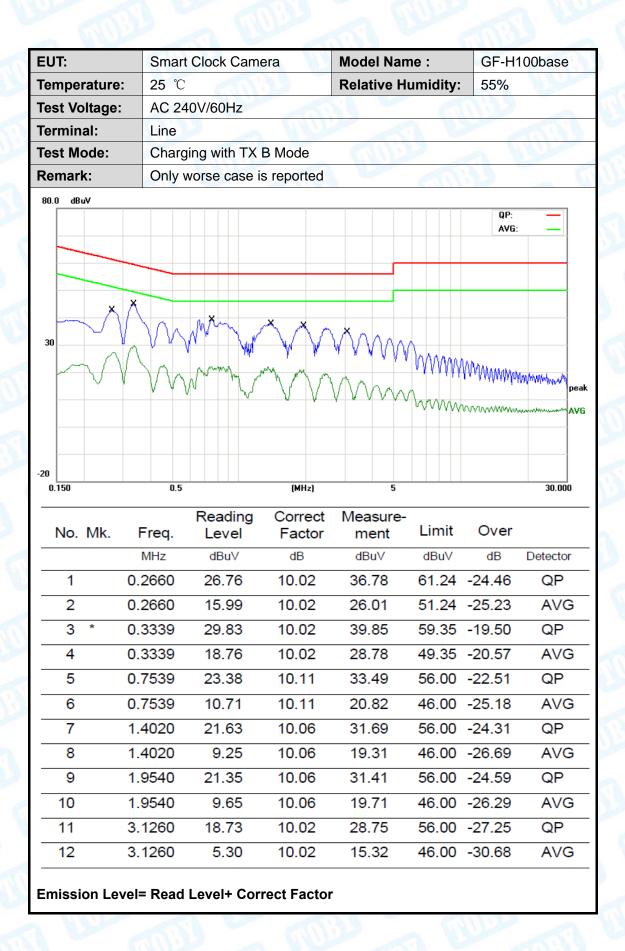
١	EUT:	Smart Clock Camera	Model Name :	GF-H100base
	Temperature:	25 ℃	Relative Humidity:	55%
	Test Voltage:	AC 120V/60Hz		
	Terminal:	Neutral		
	Test Mode:	Charging with TX B Mode		
	Remark:	Only worse case is reported	ed	
				·



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector
1		0.1620	34.10	10.12	44.22	65.36	-21.14	QP
2		0.1620	19.35	10.12	29.47	55.36	-25.89	AVG
3		0.2140	27.65	10.12	37.77	63.04	-25.27	QP
4		0.2140	10.89	10.12	21.01	53.04	-32.03	AVG
5		0.3339	34.27	10.08	44.35	59.35	-15.00	QP
6	*	0.3339	27.52	10.08	37.60	49.35	-11.75	AVG
7		0.6580	23.51	10.02	33.53	56.00	-22.47	QP
8		0.6580	9.84	10.02	19.86	46.00	-26.14	AVG
9		1.6540	19.63	10.09	29.72	56.00	-26.28	QP
10		1.6540	10.14	10.09	20.23	46.00	-25.77	AVG
11		3.7380	16.85	10.06	26.91	56.00	-29.09	QP
12		3.7380	9.76	10.06	19.82	46.00	-26.18	AVG



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UT:	Smart Cl	ock Camera	Model Name :	GF-H100	Obase
emperature:	25 ℃		Relative Humidity	<b>55%</b>	
est Voltage:	AC 240V	/60Hz	501		
erminal:	Neutral	- W		C. Service	
est Mode:	Charging	with TX B Mode		A W	N. I.
Remark:	Only wor	se case is report	ed	11:30	
80.0 dBuV					
				QP: AVG:	
×					
*	X A MG	X , X ,	w* L.		
30	/ N A M.	y Wally by Mark	*V V V V V V V V V V V V V V V V V V V		
~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MA	my promy justice of	TANAA, TYM	YYYYYYY	physiosistic pe
ν	A , MA	M V	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VVVVVV.	AV
				The state of the s	A
20					
0.150	0.5	(MH	z) 5		30.000
	F	Reading Corr			
No. Mk.	Freq.	Level Fac	tor ment Lim	nit Over	
	MHz	dBuV dB	dBuV dBu	uV dB	Detector
1 0.	.1676	21.44 10.1	2 31.56 65.	07 -33.51	QP
2 0.	.1676	9.76 10.1	2 19.88 55.	07 -35.19	AVG
3 0.	.3339	26.68 10.0	8 36.76 59.	35 -22.59	QP
4 * 0.	.3339	19.28 10.0	8 29.36 49.	35 -19.99	AVG
5 0.	.4500	19.17 10.0	94 29.21 56.	87 -27.66	QP
6 0.	.4500	11.85 10.0	4 21.89 46.	87 -24.98	AVG
		18.73 10.0		00 -27.23	QP
	.7500	9.77 10.0		00 -26.19	AVG
		17.89 10.1			QP
		10.63 10.1			AVG
	.5740 .5740	16.51 10.0		00 -29.43	QP
	m / /	8.16 10.0	6 18.22 46.	00 -27.78	AVG



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# 5. Radiated Emission Test

## 5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209

5.1.2 Test Limit

### Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

## Radiated Emission Limit (Above 1000MHz)

Frequency	Distance of 3	m (dBuV/m)
(MHz)	Peak	Average
Above 1000	74	54

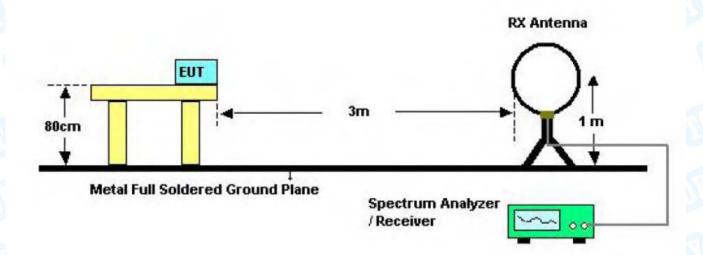
#### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

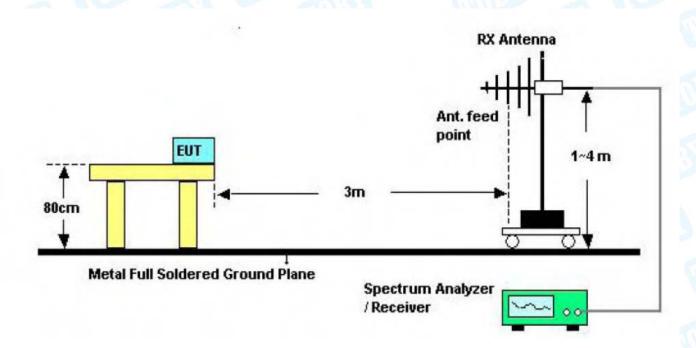


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# 5.2 Test Setup



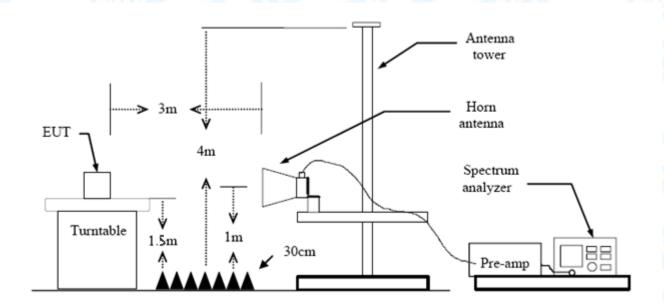
Below 30MHz Test Setup



Below 1000MHz Test Setup



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Above 1GHz Test Setup

#### 5.3 Test Procedure

- (1) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (7) For the actual test configuration, please see the test setup photo.

# 5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.



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## 5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.



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## 9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB

below the permissible value has no need to be reported.

# 30MHz~1GHz

EUT	•		9	Sma	rt Cl	lock	c Cam	era	Model	l:		G	F-H10	00bas	se
Tem	pera	ture	: 2	25 °C					Relati	ve Hur	nidity:	5	5%		
Гest	Vol	tage:	[	DC 3.6V											
Ant.	Pol	•	H	Horizontal						11			FIN I		
Test	: Mo	de:	-	TX B Mode 2412MHz											
Rem	nark:	1	(	Only	now	rse	case i	s reported			11111			1	
80.0	dBu∀	//m													7
											(RF)FCC	15C 3M	Radiation		
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•	Markey.							Land	بالماليل بير ليكال	Prop. L. M. Pillingho	M				
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-20	000	40	50	60 7	70 80		A American Services	MHz)	JAN (machillioch	300		500	600 700	1000	0.000
-20 30.0	000	40				Rea	ading	(MHz)	Meas	300	400			1000	0.000
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-20 30.0	000	40 Mk.	Fre	eq. Iz	F	Rea Le	ading	(MHz) Correct Factor	Meas mer	300 sure- nt //m	400 !	n	Over	Det	eak
-20 30.1	000	40 Mk.	Fre	eq. Iz 127	F	Rea Le	ading evel	(MHz)  Correct Factor  dB/m	Meas mer	300 sure- nt //m	Limit	m ) -	Over dB	Det	tecto eak
-20	000	40 Mk.	Fr∈ M⊦ 568.6	eq. Iz 127 583	F	Rea Le dE 40	ading evel BuV	(MHz)  Correct Factor  dB/m -9.47	Meas mer dBu\	300 sure- nt //m 11	400 ! Limit dBuV/r 46.00	m ) -	Over dB -14.89	Det ) p	ecto eak
-20	000	40 Mk.	Fre MH 668.6	eq. 127 583	F	Rea Le 40 38	ading evel BuV 0.58	(MHz)  Correct Factor dB/m -9.47 -6.08	Meas mer dBu\ 31.	300 sure- nt //m 11 00	Limit dBuV/r 46.00	m ) -	Over dB -14.89	Det  ) p  ) p  ) p	eak eak
-20 30.0 N	000	40 Mk.	Fre MH 568.6 729.3	eq. 127 583 863	F	Rea Le 40 38 38	ading evel BuV 0.58 3.08	(MHz)  Correct Factor  dB/m -9.47 -6.08 -5.27	Meas mer dBu\ 31. 32.0	300 sure- nt //m 11 00 52	Limit dBuV/r 46.00 46.00 46.00	m ) -	Over  dB  -14.89  -14.00  -12.48	Det  ) p  ) p  ) p  ) p	eak eak eak
-20 N 1 2 3 4	000	40 Mk.	Fre MH 568.6 729.3 801.7	eq. 127 583 863 353	F	Rea Le 40 38 38 37	ading evel 3uV 0.58 3.08 3.79 7.85	(MHz)  Correct Factor  dB/m -9.47 -6.08 -5.27 -5.31	Meas mer dBu\ 31. 32.0 33.5 32.5	300 sure- nt //m 11 00 52 54	400 state of the s	m ) - ) - ) -	Over  dB  -14.89  -14.00  -12.48  -13.46	Det      p     p     p     p     p     p	tecto



Page: 22 of 91

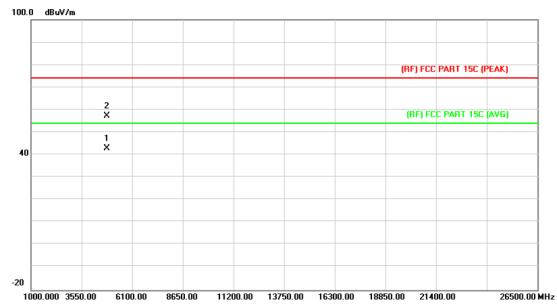
UT:		Smart Clock Camera					Model:				GF-H100base						
empe	rature		25	$\mathbb{C}$	e		33	R	elative	Hum	nidity	<b>'</b> : !	55%	à	1		
est Vo	oltage:		DC	3.6\	V				18			6					
nt. Po	ol.		Vert	ical				MAR		1		6			A	10	
est M	ode:		TX	ВМ	ode	2412	2MHz			11/2			A				
Remark:			Only	y wc	orse	case	is rep	orted	1		6						
80.0 dE	3uV/m																7
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20 30.000	40	50	60 7	~~~~ 70 80		Manager		MHz)	M. vilored to Mile	300		400	500	600		1000	0.00
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2030.000	40		eq.	F	Rea	ding vel	Cor	MHz)	Mea: me	300 sure-	. Li	400	500	600	700 er	1000	
2030.000	40 Mk.	Fre	e <b>q.</b>	R	o Read Lev	ding vel uV	Col Fa	MHz) rrect	Meas me	300 sure- ent	Li	mit	<b>500</b>	600 Ove	700 er		ecto
30.000 No.	40 Mk.	Fre	eq. Iz 127	R	Read Lev	ding vel uV	Col Fa	mHz) rrect	Meas me dBu	sure- ent	Li de	mit	500 (m	600 Ove	700 er 8	Dete	ecto
20 30.000 No.	* 5	Fre MH 68.6	eq.  z  127	R	Read Lev dB	ding vel uV .58	Col Fa dB -9.	mHz) rrect actor s/m 47	Meas me dBu 41	sure- ent uv/m .11	Li de 4	mit BuV/n	500 (m)) -	OV6	700 er 89	Dete pe	ecto al
No. 1 2 3	* 5	Fre MH 68.6 29.3	eq. 127 582 862	R	Read Lev dB: 50.	ding vel uV .58 .08	Col Fa dB -9.	rrect actor 47 08	Meas me dBu 41 32	300 sure- ent uv/m .11 2.00	Li de 4	mit BuV/n 6.00	((mn))) -	OV6 dB -4.6	700 er 89 .00	Dete pe pe	ecto eal- eal-
No.  1 2 3 4	* 5	Fre MH 68.6 29.3 01.7 51.0	eq. 127 127 582 862 353	R	dBi 50. 38. 37.	ding vel uV .58 .08 .79	Col Fa dB -9. -6. -5.	rrect actor 47 08 27	Meas me dBu 41 32 33	300 sure- ent uV/m .11 2.00 3.52	Li de 4	mit 8uV/n 6.00 6.00	(mn))	OV 600 dB -4.8 -14.	700 er 89 .00 .48	Dete pe pe pe	ecto al- al-
No. 1 2 3	* 5 7 8	Fre MH 68.6 29.3	eq. 127 582 862 353	R	Read Lev dB: 50.	ding vel uV 58 08 .79 .35	Col Fa dB -9. -6. -5. -5.	rrect actor 47 08	Meas me dBu 41 32 33 32 31	300 sure- ent uv/m .11 2.00	Li de 4	mit BuV/n 6.00	((mn))	OV6 dB -4.6	700 er 89 .00 .48	Dete pe pe	ecto eal- eal- eal-



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#### **Above 1GHz**

Smart Clock Camera	Model:	GF-H100base
25 ℃	Relative Humidity:	55%
DC 3.6V	01 - 6	THE STATE OF THE S
Horizontal		
TX B Mode 2412MHz		THE PARTY OF THE P
No report for the emission limit.	which more than 10 dE	B below the prescribed
	25 °C DC 3.6V Horizontal TX B Mode 2412MHz No report for the emission	25 °C Relative Humidity:  DC 3.6V  Horizontal  TX B Mode 2412MHz  No report for the emission which more than 10 dB



1	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4823.040	29.23	13.56	42.79	54.00	-11.21	AVG
2			4823.538	43.75	13.56	57.31	74.00	-16.69	peak



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Smart Clock Camera	Model:	GF-H100base
25 ℃	Relative Humidity:	55%
DC 3.6V		133
Vertical	O	
TX B Mode 2412MHz		Jan Jan
No report for the emission value prescribed limit.	which more than 10 dB	below the
	25 °C DC 3.6V Vertical TX B Mode 2412MHz No report for the emission v	25 °C Relative Humidity:  DC 3.6V  Vertical  TX B Mode 2412MHz  No report for the emission which more than 10 dB

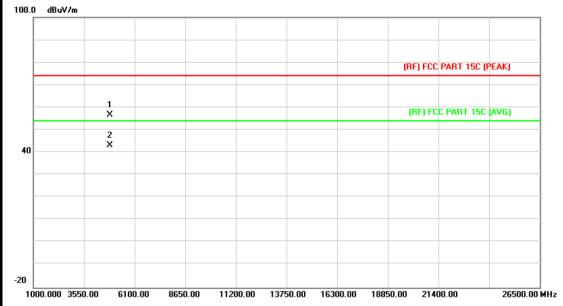


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.836				54.00	-11.27	AVG
2		4824.082	42.89	13.56	56.45	74.00	-17.55	peak



Page: 25 of 91

EUT:	Smart Clock Camera	Model:	GF-H100base			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 3.6V		TI STATE OF THE ST			
Ant. Pol.	Horizontal					
Test Mode:	TX B Mode 2437MHz					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the				
	prescribed limit.					
4						



No	o. Mk	. Freq.			Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.374	42.89	13.86	56.75	74.00	-17.25	peak
2	*	4873.928	29.32	13.86	43.18	54.00	-10.82	AVG



Page: 26 of 91

EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission	which more than 10 de	B below the
	prescribed limit.		



No	o. Mk	. Freq.			Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.080	43.39	13.86	57.25	74.00	-16.75	peak
2	*	4874.434	29.37	13.86	43.23	54.00	-10.77	AVG



Page: 27 of 91

EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission	n which more than 10 de	B below the
	prescribed limit.		



No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.556	42.40	14.15	56.55	74.00	-17.45	peak
2	*	4924.778	29.67	14.15	43.82	54.00	-10.18	AVG



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EUT:	Smart Clock Camera	Model:	GF-H100base			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 3.6V					
Ant. Pol.	Vertical					
Test Mode:	TX B Mode 2462MHz		A VIII			
Remark:	No report for the emission	No report for the emission which more than 10 dB below the				
	prescribed limit.					
Ì						

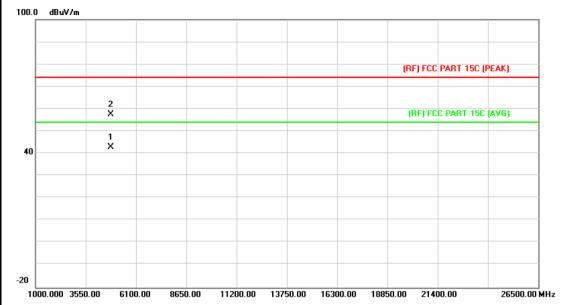


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.168	43.46	14.15	57.61	74.00	-16.39	peak
2	*	4924.718	29.66	14.15	43.81	54.00	-10.19	AVG



Page: 29 of 91

EUT:	Smart Clock Camera	Model:	GF-H100base			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 3.6V	501 5	URA			
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX G Mode 2412MHz	WIII DE	A HILL			
Remark:	No report for the emission	on which more than 10 dl	B below the			
	prescribed limit.					

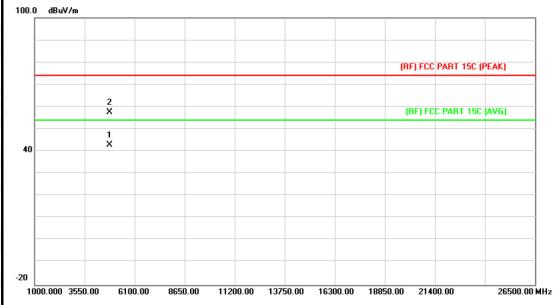


No	o. M	k. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.242	29.21	13.56	42.77	54.00	-11.23	AVG
2		4824.956	43.96	13.56	57.52	74.00	-16.48	peak



Page: 30 of 91

Smart Clock Camera	Model:	GF-H100base
25 ℃	Relative Humidity:	55%
DC 3.6V		The same of the sa
Vertical		
TX G Mode 2412MHz	WIID?	THE PARTY OF THE P
No report for the emission prescribed limit.	which more than 10 dE	3 below the
	25 °C DC 3.6V Vertical TX G Mode 2412MHz No report for the emission	25 °C Relative Humidity:  DC 3.6V  Vertical  TX G Mode 2412MHz  No report for the emission which more than 10 dB

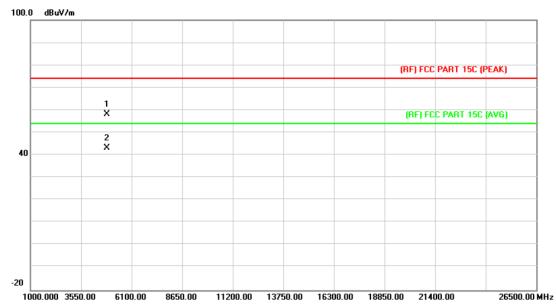


No	o. MI	k. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.156	29.18	13.56	42.74	54.00	-11.26	AVG
2		4824.188	43.89	13.56	57.45	74.00	-16.55	peak



Page: 31 of 91

EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V	DC 3.6V					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX G Mode 2437MHz		THE PARTY OF THE P				
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						

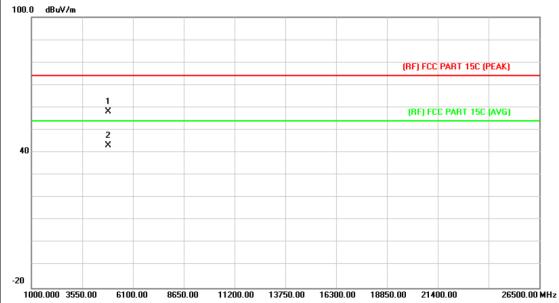


N	o. Mk	. Freq.			Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.680	44.39	13.86	58.25	74.00	-15.75	peak
2	*	4874.838	29.37	13.86	43.23	54.00	-10.77	AVG



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EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V	DC 3.6V					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX G Mode 2437MHz						
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						
Í							



No	o. N	Лk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4	4873.444	44.25	13.86	58.11	74.00	-15.89	peak
2	*	4	4874.554	29.35	13.86	43.21	54.00	-10.79	AVG



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EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V	DC 3.6V					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX G Mode 2462MHz		The same of the sa				
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						



ı	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4924.516	29.68	14.15	43.83	54.00	-10.17	AVG
2			4924.538	42.92	14.15	57.07	74.00	-16.93	peak



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Smart Clock Camera	Model:	GF-H100base			
<b>25</b> ℃	Relative Humidity:	55%			
DC 3.6V					
Vertical					
TX G Mode 2462MHz	MILDS	A VIII			
No report for the emission which more than 10 dB below the prescribed limit.					
	OC 3.6V Vertical TX G Mode 2462MHz No report for the emission	OC 3.6V Vertical TX G Mode 2462MHz No report for the emission which more than 10 dB			

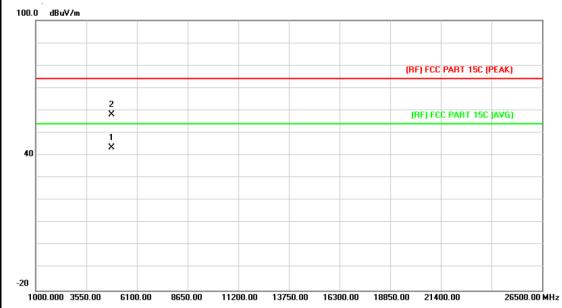


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.554	43.85	14.15	58.00	74.00	-16.00	peak
2	*	4924.720	29.65	14.15	43.80	54.00	-10.20	AVG



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EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V	DC 3.6V					
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT20) Mode 2412M	Hz					
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

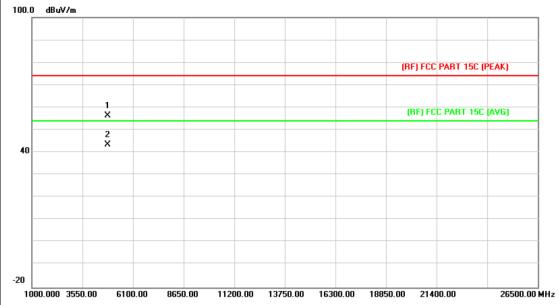


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.738	29.83	13.56	43.39	54.00	-10.61	AVG
2		4824.164	44.72	13.56	58.28	74.00	-15.72	peak



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EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V	DC 3.6V					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT20) Mode 2412M	lHz					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						

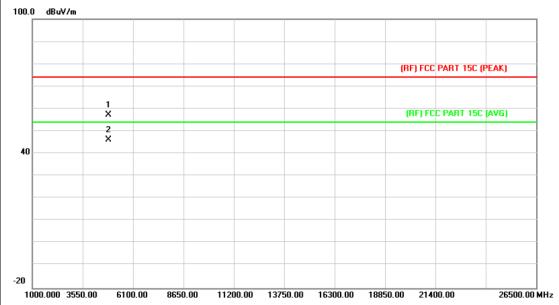


No	. Mk	. Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.312	42.78	13.56	56.34	74.00	-17.66	peak
2	*	4823.888	29.96	13.56	43.52	54.00	-10.48	AVG



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EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V	DC 3.6V					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX N(HT20) Mode 2437	MHz	THE PARTY OF THE P				
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						

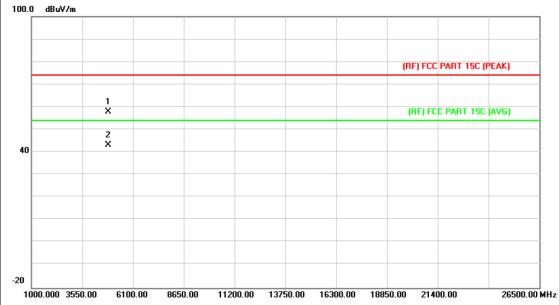


No	o. Mk	c. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.442	43.53	13.86	57.39	74.00	-16.61	peak
2	*	4874.720	32.21	13.86	46.07	54.00	-7.93	AVG



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EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V		U33				
Ant. Pol.	Vertical						
Test Mode:	TX N(HT20) Mode 2437N	ИНz	A VIII				
Remark:	No report for the emissio	No report for the emission which more than 10 dB below the					
	prescribed limit.						

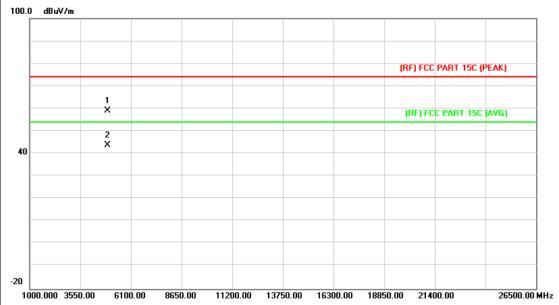


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.222	44.08	13.86	57.94	74.00	-16.06	peak
2	*	4874.494	29.34	13.86	43.20	54.00	-10.80	AVG



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EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V	DC 3.6V					
Ant. Pol.	Horizontal	No.					
Test Mode:	TX N(HT20) Mode 2462N	lHz	A WILLIAM				
Remark:	No report for the emission	which more than 10 dB	below the				
	prescribed limit.						



No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.142	44.78	14.15	58.93	74.00	-15.07	peak
2	*	4924.374	29.66	14.15	43.81	54.00	-10.19	AVG



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EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V	DC 3.6V					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT20) Mode 2462MH	z milipe	A HILL				
Remark:	No report for the emission w	No report for the emission which more than 10 dB below the					
	prescribed limit.						



No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.278	43.43	14.15	57.58	74.00	-16.42	peak
2	*	4924.708	29.62	14.15	43.77	54.00	-10.23	AVG



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Smart Clock Camera	Model:	GF-H100base				
25 ℃	Relative Humidity:	55%				
DC 3.6V	DC 3.6V					
Horizontal	Horizontal					
TX N(HT40) Mode 2422N	ИНz	A VIII				
No report for the emission which more than 10 dB below the						
	25 °C DC 3.6V Horizontal TX N(HT40) Mode 2422N	25 °C Relative Humidity:  DC 3.6V Horizontal  TX N(HT40) Mode 2422MHz  No report for the emission which more than 10 dB				



No	o. Mk	c. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.200	29.31	13.68	42.99	54.00	-11.01	AVG
2		4843.476	43.16	13.68	56.84	74.00	-17.16	peak



Page: 42 of 91

EUT:	Smart Clock Camera	Model:	GF-H100base					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	DC 3.6V	DC 3.6V						
Ant. Pol.	Vertical							
Test Mode:	TX N(HT40) Mode 2422M	-lz	2					
Remark:	No report for the emission which more than 10 dB below the							
	prescribed limit.							



No	o. Mk	c. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.768	29.31	13.68	42.99	54.00	-11.01	AVG
2		4844.928	43.80	13.68	57.48	74.00	-16.52	peak



Page: 43 of 91

EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V	DC 3.6V					
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT40) Mode 2437N	ИНz	A HILL				
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.	20 m					
l I							



No	o. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.012	43.41	13.86	57.27	74.00	-16.73	peak
2	*	4874.354	29.36	13.86	43.22	54.00	-10.78	AVG



Page: 44 of 91

EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V	DC 3.6V					
Ant. Pol.	Vertical						
Test Mode:	TX N(HT40) Mode 2437M	1Hz					
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						



No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.682	41.13	13.86	54.99	74.00	-19.01	peak
2	*	4874.516	29.36	13.86	43.22	54.00	-10.78	AVG



Page: 45 of 91

EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V	DC 3.6V					
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT40) Mode 2452I	MHz					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						

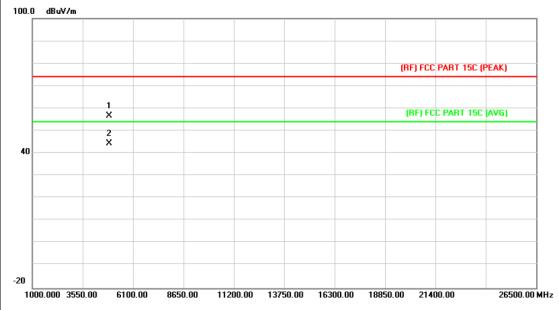


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4903.765	30.23	14.03	44.26	54.00	-9.74	AVG
2		4904.271	44.04	14.03	58.07	74.00	-15.93	peak



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EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V	DC 3.6V					
Ant. Pol.	Vertical						
Test Mode:	TX N(HT40) Mode 2452N	ИНz	THE PARTY OF THE P				
Remark:	No report for the emissio	No report for the emission which more than 10 dB below the					
	prescribed limit.						
1							



No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4904.725	42.69	14.03	56.72	74.00	-17.28	peak
2	*	4905.672	30.22	14.05	44.27	54.00	-9.73	AVG



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# 6. Restricted Bands Requirement

#### 6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

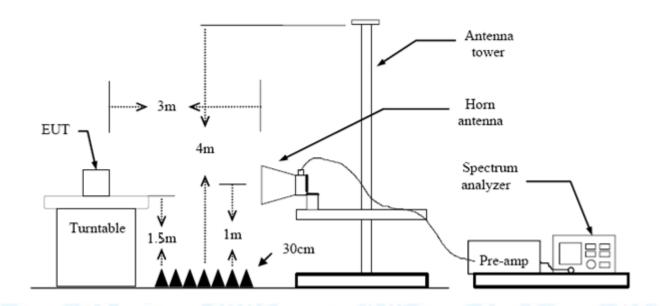
FCC Part 15.209

FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Distance of 3m (dBuV/m)		
Band (MHz)	Peak	Average	
2310 ~2390	74	54	
2483.5 ~2500	74	54	

### 6.2 Test Setup



#### 6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.



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(3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

### 6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

#### 6.5 Test Data

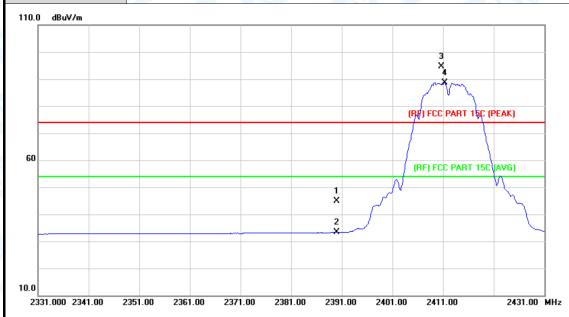
Please see the next page.



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## (1) Radiation Test

EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V		
Ant. Pol.	Horizontal	WILL STATE OF THE	MILL
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A	JU 130	

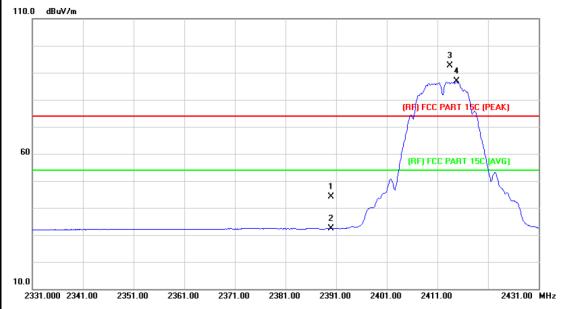


No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	44.04	0.77	44.81	74.00	-29.19	peak
2		2390.000	32.58	0.77	33.35	54.00	-20.65	AVG
3	Χ	2410.700	93.86	0.86	94.72	Fundamental F	requency	peak
4	*	2411.300	87.77	0.86	88.63	Fundamental F	requency	AVG



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EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		THE PARTY OF THE P
Remark:	N/A		(I)
110.0 ID.V/			

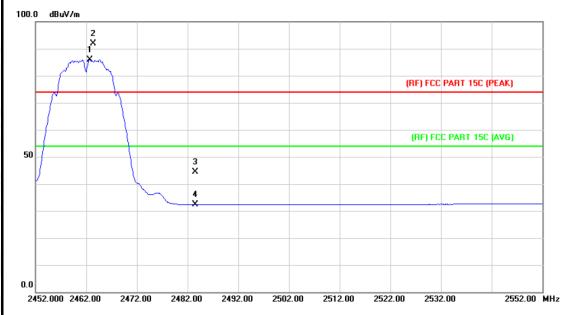


N	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.31	0.77	44.08	74.00	-29.92	peak
2		2390.000	31.56	0.77	32.33	54.00	-21.67	AVG
3	X	2413.500	91.76	0.86	92.62	Fundamental Frequency		peak
4	*	2414.800	85.94	0.88	86.82	Fundamenta	l Frequency	AVG



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EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz	MILLER	
Remark:	N/A		



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2462.700	84.85	1.08	85.93	Fundamental	Frequency	AVG
2	Χ	2463.400	90.85	1.08	91.93	Fundamental	Frequency	peak
3		2483.500	43.32	1.17	44.49	74.00	-29.51	peak
4		2483.500	31.24	1.17	32.41	54.00	-21.59	AVG



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		A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.					
EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V	531	MILES OF				
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2462MHz						
Remark:	N/A		133				
100.0 dBuV/m							
2 X							
, in the same of t							
		(RF) F	CC PART 15C (PEAK)				

2 X								
1 X	run.							
						(RF) FC	C PART 15C	PEAK)
	7							
H						(BE) E	CC PART 150	(AVG)
						(11)11	C TAIT 130	(ATU)
50			X 3					
		~	4					
			-					
0								

No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2459.300	83.58	1.06	84.64	Fundamental F	requency	AVG
2	X	2460.500	89.45	1.06	90.51	Fundamental F	requency	peak
3		2483.500	44.06	1.17	45.23	74.00	-28.77	peak
4		2483.500	31.19	1.17	32.36	54.00	-21.64	AVG



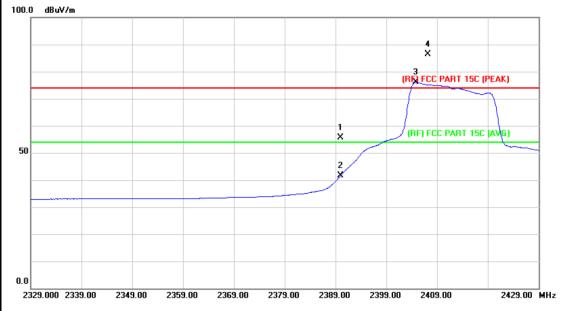
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EUT:			Sma	rt Clo	ock Ca	mera	Mode	el:		GF-H100base		
empe	eratur	e:	25 °	С			Rela	ive Hu	midity:	55%		
est V	oltag	<b>e</b> :	DC 3	3.6V					67	W	9	
nt. P	ol.		Horiz	zonta		A. R. R.	1				-	
est N	lode:		TX C	S Mod	de 241	2MHz	_ (	4115		-	MA	
Rema	rk:		N/A	M					6.00	333		
100.0	ßuV/m											
										3 X		
										^	4	
									(RE) FC	PART 150	C (PEAK)	
											+	
			+					1 X	(RF) F	CC PART 1	5C (AVG)	
50								2				
								2 X				
2329.0	000 2339	0.00 23	49.00	2359.	00 23	69.00 2379	.00 238	9.00 23	399.00 240	9.00	24	29.00 M
			-	Re	adina	Correc	t Me	asure-				
No.	Mk.	Fre	q.		ading evel	Correc		asure- nent	Limit	Ov	er	
No.	Mk.	Fre		Le	_		or m		Limit dBuV/r			Detect
No.			Z	Le d	evel	Facto	or m	nent		n d		Detect pea
		МН	z 000	d 56	evel BuV	Facto dB/m	or m	nent BuV/m	dBuV/r	n d	В	
1		MH 2390.	z 000 000	56 42	BuV 6.40	dB/m 0.77	or m	nent BuV/m 7.17	dBuV/r	n dl ) -16 ) -10	B 6.83 0.80	pea



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EUT:	Smart Clock Camera	Model:	GF-H100base					
Temperature:	<b>25</b> ℃	Relative Humidity:	55%					
Test Voltage:	DC 3.6V							
Ant. Pol.	Vertical	Vertical						
Test Mode:	TX G Mode 2412MHz		2					
Remark:	N/A							

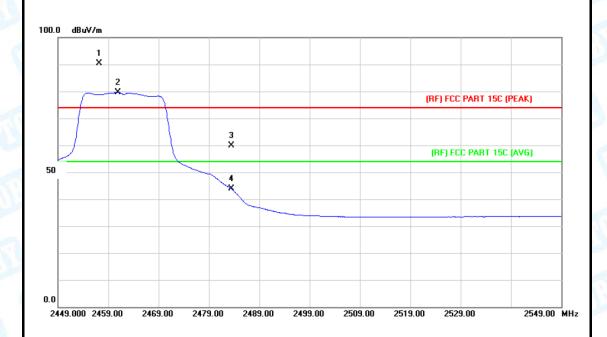


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	54.90	0.77	55.67	74.00	-18.33	peak
2		2390.000	40.85	0.77	41.62	54.00	-12.38	AVG
3	*	2404.800	75.20	0.84	76.04	Fundamental	Frequency	AVG
4	Χ	2407.200	85.64	0.85	86.49	Fundamental	Frequency	peak



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EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		133

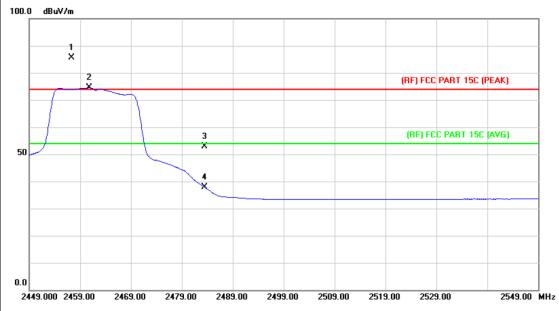


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2457.200	89.43	1.05	90.48	Fundamental F	requency	peak
2	*	2460.900	78.66	1.06	79.72	Fundamental F	requency	AVG
3		2483.500	58.70	1.17	59.87	74.00	-14.13	peak
4		2483.500	42.63	1.17	43.80	54.00	-10.20	AVG



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EUT:	Smart Clock Camera	Model:	GF-H100base				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.6V						
Ant. Pol.	Vertical						
Test Mode:	TX G Mode 2462MHz		3 VIII				
Remark:	N/A		72 _ 0				

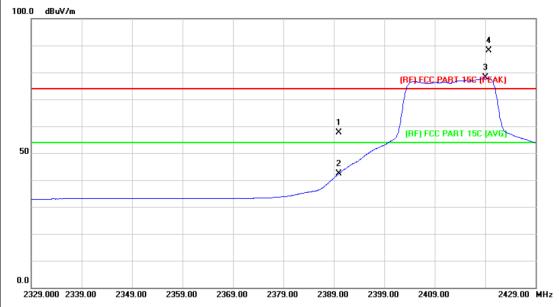


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2457.300	84.55	1.05	85.60	Fundamental	Frequency	peak
2	*	2460.800	73.49	1.06	74.55	Fundamental	Frequency	AVG
3		2483.500	51.67	1.17	52.84	74.00	-21.16	peak
4		2483.500	36.72	1.17	37.89	54.00	-16.11	AVG



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EUT:	Smart Clock Camera	Model:	GF-H100base					
Temperature:	25 °C Relative Humidity: 55%							
Test Voltage:	DC 3.6V							
Ant. Pol.	Horizontal	0						
Test Mode:	TX N(HT20) Mode 2412MH	z	2					
Remark:	N/A							



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	56.95	0.77	57.72	74.00	-16.28	peak
2		2390.000	41.57	0.77	42.34	54.00	-11.66	AVG
3	*	2419.000	77.14	0.89	78.03	- Fundamental	Frequency	AVG
4	Χ	2419.700	87.24	0.89	88.13	Fundamental	Frequency	peak



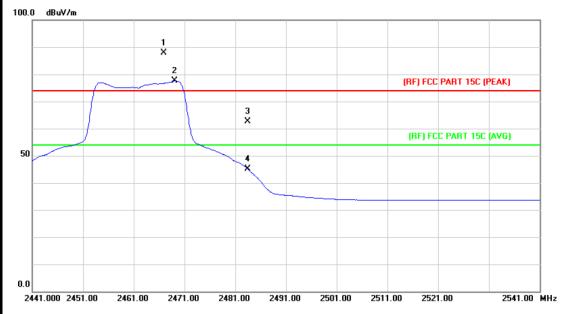
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EUT:			Sma	rt Cl	ock Ca	amera	N	lodel	:		GF-H	100b	ase	10
Tempe	eratu	re:	25 °C	C	611	CAN	R	elati	ve Hu	midity:	55%			
Test V	oltag	e:	DC 3	8.6V	100		50			6		9		
Ant. P	ol.		Verti	cal	- 10	2 B						A		
Test N	lode:		TXN	I(HT	20) Mo	ode 2412	2MHz	160	1110		-0	All		
Rema	rk:		N/A	1/1			50	A		an	113			I
100.0	dBuV/m													
										3 X				
										(RE) FO	C PART 15	C (PEAK	)	
										+/-				-
								,	·	(BF) F	CC PART 1	5C (AVG	1	-
50									. /				_	1
									2					
								-						
														1
							_							1
0.0 2329.	000 233	9.00 2	349.00	2359	.00 2	369.00 23	379.00	2389.	00 23	399.00 24	09.00	2	429.00	_ МН
				Re	ading	Corre	ect	Mea	sure-					
Nο	Mk.	Fre	eq.		evel	Fac		me		Limit	Ov	er		
140.								4D.	ıV/m	dBuV/ı	m di	В	Dete	cto
140.		MH	Z	d	lBu∀	dB/n	า	abu	I V /IIII	ubu v/i	II UI			
1		мн 2390.			Bu∨ 8.53	dB/n			.30	74.00		.70	pe	ak
			000	5			7	59			0 -14		pe: AV	
1	X	2390.	000	5	8.53	0.77	7	59 43	.30	74.00 54.00	0 -14	.70		/G



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1	EUT:	Smart Clock Camera	Model:	GF-H100base
	Temperature:	25 ℃	Relative Humidity:	55%
	Test Voltage:	DC 3.6V	The state of	133
l	Ant. Pol.	Horizontal	O	
ŕ	Test Mode:	TX N(HT20) Mode 2462MH	z (MV)	a William
	Remark:	N/A		



No.	. Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2466.900	86.88	1.10	87.98	Fundamental F	-requency	peak
2	*	2469.100	76.47	1.11	77.58	Fundamental F	-requency	AVG
3		2483.500	61.45	1.17	62.62	74.00	-11.38	peak
4		2483.500	43.88	1.17	45.05	54.00	-8.95	AVG



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EUT	:		Smar	t Clock C	amera	Model:		GF-H100b	pase
Гem	peratu	re:	25 ℃	Can	BD.	Relative	Humidity:	55%	
Test	Voltag	je:	DC 3	.6V		11/10	61	4133	
4nt	Pol.		Vertic	cal	a Whi		O U		
Test	Mode:		TX N	(HT20) M	lode 2462N	lHz	000	9 W	1 leave
Ren	nark:		N/A	MAR				33	_ (
100.0	) dBuV/m								
			2 X						
			1				(RF) FCC	PART 15C (PEAK	9
		1							
					3 X				
50		<del>                                     </del>		-	×		(RF) FC	C PART 15C (AVE	i)
30	p. Burney				4 X				
0.0									
24	41.000 24	51.00	2461.00	2471.00	2481.00 2491	.00 2501.00	2511.00 252	1.00 2	2541.00 MHz
				Readin	g Corre	ct Measu			
N	lo. Mk	. Fi	req.	Level	Facto	r ment	Limit	Over	
		M	lHz	dBu∀	dB/m	dBuV/ı	m dBuV/n	n dB	Detecto
1	*	2460	0.700	73.70	1.06	74.76	6 Fundament	al Frequency	AVG
2	X	2460	0.900	84.27	1.06	85.33	3 Fundament	al Frequency	peak
3		2483	3.500	57.06	1.17	58.23	3 74.00	-15.77	peak
3								-10.77	



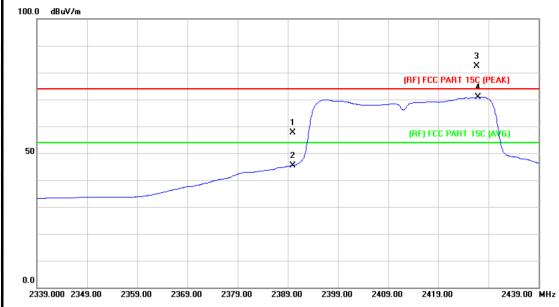
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EU1	Γ:		Smar	t Clock	Camera		Mod	lel:		GF-H	100ba	se
Гem	peratui	re:	25 ℃		THE		Rela	tive Hu	umidity:	55%	As	N. B.
Tes <sup>-</sup>	t Voltag	e:	DC 3	.6V					CITY OF THE	1133		an.
۱nt	. Pol.		Horiz	ontal	0	MAR			J C	-	1	
Tes:	t Mode:		TX N	(HT40)	Mode 24	52MHz	2					
Ren	nark:		N/A	ARA		661				33		
100.0	) dBuV/m											_
									(DE) Fee	4 × PAR B 15C (P	EAV	
									(RF) FLC	PARB ISC (P	EAKJ	
						1 X						
						2			(RF) FCC	PART 15C	AVG)	
50												
												$\dashv$
												-
0.0												
23	339.000 234	9.00 235	59.00	2369.00	2379.00	2389.00	2399		99.00 2419.	00	2439.0	0 MH:
_		_		Readi		rrect		asure-	1 1 14	0		
N	lo. Mk.		<u> </u>	Leve	el Fa	orrect actor	m	ent	Limit	Ove		
N	lo. Mk.	Fre	<u> </u>		Fa		m		Limit dBuV/m			etecto
1	lo. Mk.		z	Leve	el Fa	actor	m dB	ent		ı dB	De	etecto
	lo. Mk.	MH	z 000	Leve dBuV	el Fa / dl 4 0	actor B/m	dB 62	ent suV/m	dBuV/m	dB -11.	D∈ 59 p	
1	No. Mk.	MH:	z 000 000	dBuV	el Fa / dl 4 0 0 0	B/m .77	62 49	ent suV/m 2.41	dBuV/m	-11.	De 59 p	eal



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EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.6V		1133
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422N	ИНz	2 Hills
Remark:	N/A		13 _ 6
100.0 dBuV/m			
			3

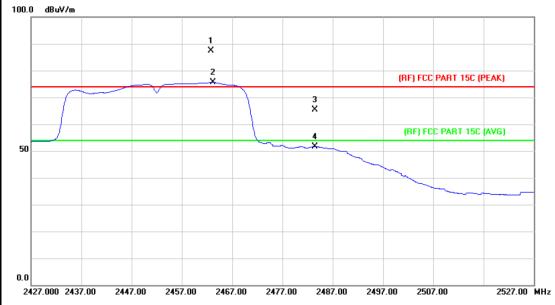


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	56.88	0.77	57.65	74.00	-16.35	peak
2		2390.000	44.69	0.77	45.46	54.00	-8.54	AVG
3	Χ	2426.700	81.47	0.93	82.40	Fundamental	Frequency	peak
4	*	2426.900	69.97	0.93	70.90	Fundamental	Frequency	AVG



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EUT:	Smart Clock Camera	Model:	GF-H100base					
Temperature:	<b>25</b> ℃	Relative Humidity:	55%					
Test Voltage:	DC 3.6V	DC 3.6V						
Ant. Pol.	Horizontal							
Test Mode:	TX N(HT40) Mode 2452M	Hz						
Remark:	N/A							

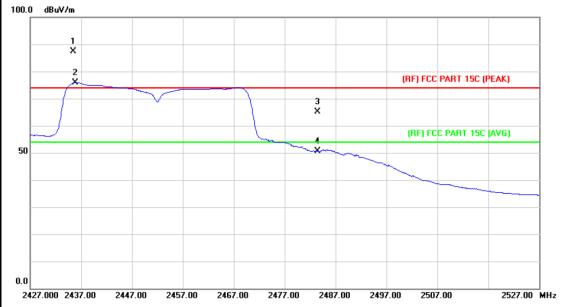


No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2462.800	86.19	1.08	87.27	Fundamental	Frequency	peak
2	*	2463.200	74.59	1.08	75.67	Fundamental	Frequency	AVG
3		2483.500	64.30	1.17	65.47	74.00	-8.53	peak
4		2483.500	50.48	1.17	51.65	54.00	-2.35	AVG

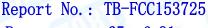


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EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V	531	
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		133
100.0 dBuV/m			
1			
×			



-	۷o.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		X	2435.500	86.31	0.97	87.28	Fundamental F	Frequency -	peak
2		*	2435.800	74.95	0.97	75.92	Fundamental F	-requency	AVG
3			2483.500	64.01	1.17	65.18	74.00	-8.82	peak
4			2483.500	49.47	1.17	50.64	54.00	-3.36	AVG

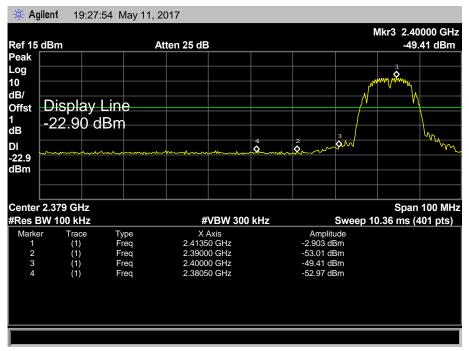


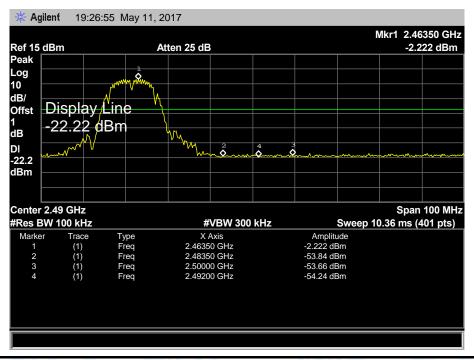


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### (2) Conducted Test

EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



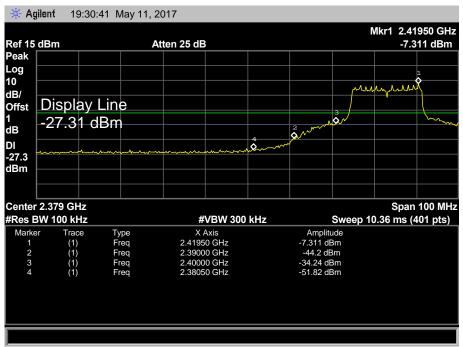


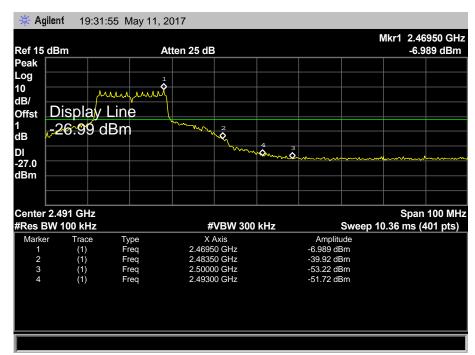


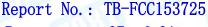


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EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



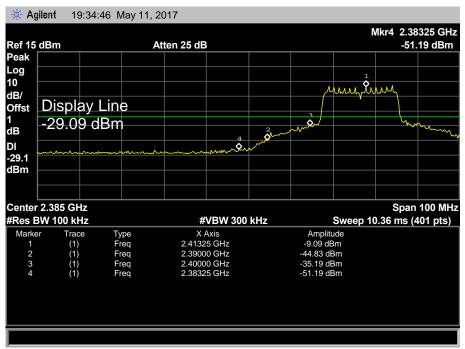






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EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



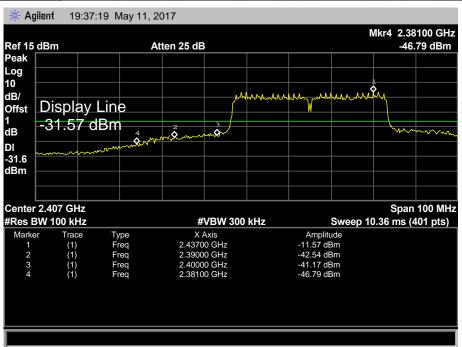


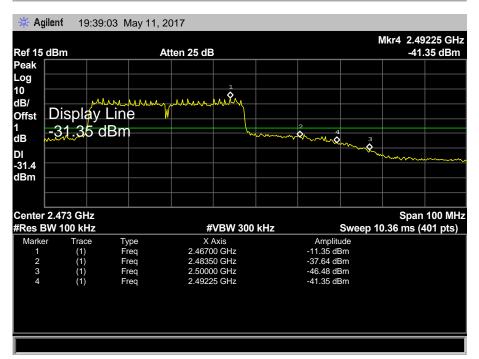




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EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz		
Remark:	The EUT is programed in continuously transmitting mode		







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## 7. Bandwidth Test

#### 7.1 Test Standard and Limit

7.1.1 Test Standard FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210				
Test Item	Limit	Frequency Range(MHz)		
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5		

## 7.2 Test Setup



#### 7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

## 7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.



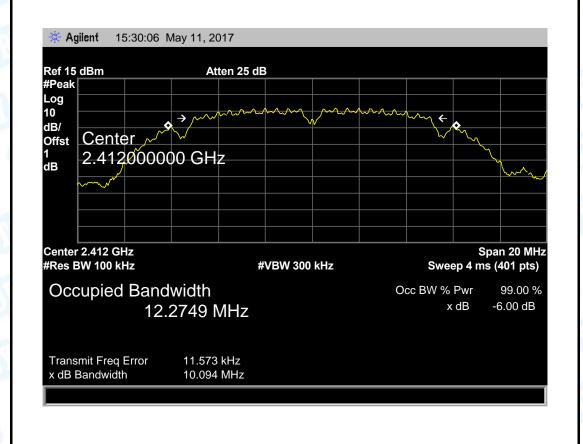
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## 7.5 Test Data

EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V		CON 1313
Test Mode:	Mode: TX 802.11B Mode		
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2412	10.084	14.6322	
2437	10.070	14.5797	>=0.5
2462	10.069	14.5493	

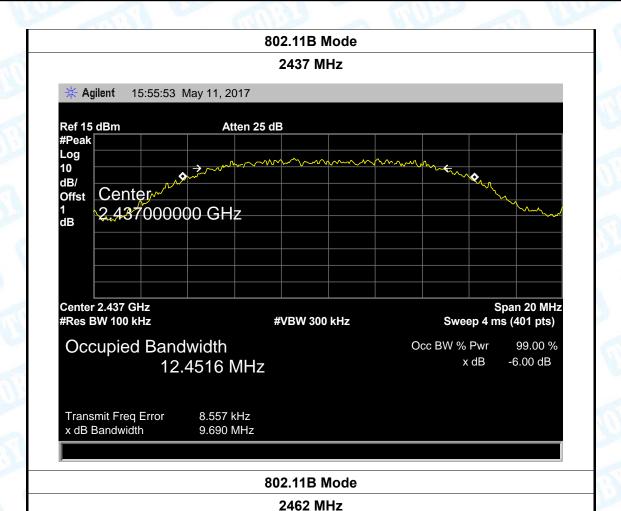
#### 802.11B Mode

#### 2412 MHz





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#### \* Agilent 15:55:09 May 11, 2017 Ref 15 dBm Atten 25 dB #Peak Log 10 dB/ Center Offst 1 dB 2.462000000 GHz Center 2.462 GHz Span 20 MHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 4 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB 12.6205 MHz

Transmit Freq Error

x dB Bandwidth

3.555 kHz

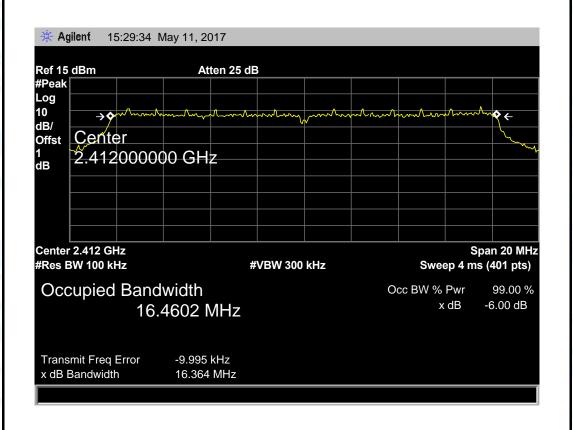
9.029 MHz



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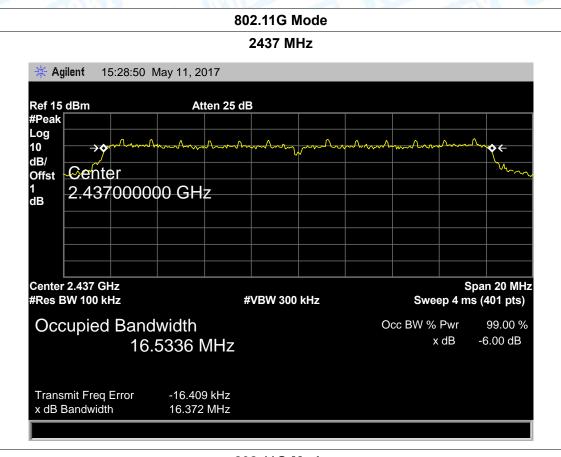
EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	Temperature: 25 °C		55%
Test Voltage:	DC 3.6V	10 TO	133
Test Mode:	Test Mode: TX 802.11G Mode		
Channel frequency 6dB Bandwidth		99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2412	16.573	16.4726	
2437	16.593	16.5164	>=0.5
2437 2462	16.593 15.692	16.5164 16.3885	>=0.5

#### 2412 MHz

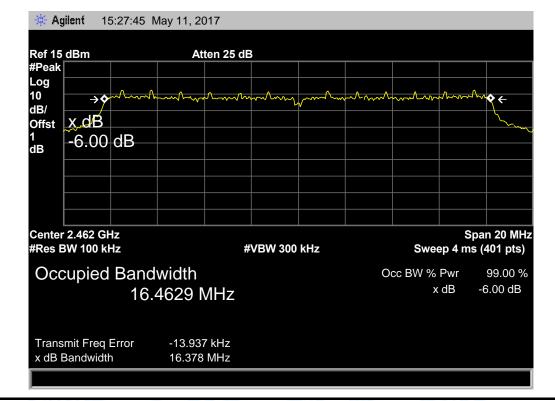




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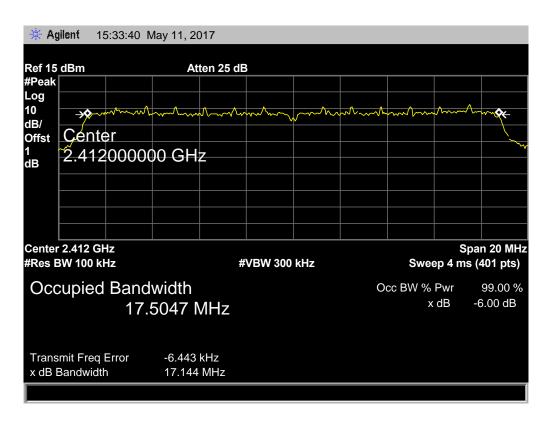
#### 802.11G Mode





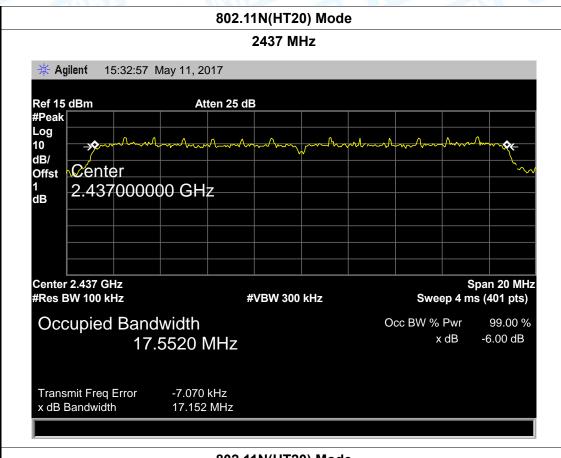
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EUT:	Smart Clock Camer	a Model:	GF-H100base
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V		
Test Mode:	TX 802.11N(HT20) Mode		
Channel frequen	cy 6dB Bandwi	dth 99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2412	17.840	17.6397	
2437	17.858	17.6415	>=0.5
2462	17.823	17.6304	
	802.1	1N(HT20) Mode	
		2412 MHz	





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#### 802.11N(HT20) Mode 2462 MHz 🔆 Agilent 15:32:17 May 11, 2017 Ref 15 dBm Atten 25 dB #Peak Log 10 dB/ Center Offst 1 dB 2.462000000 GHz Center 2.462 GHz Span 20 MHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 4 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB 17.5622 MHz Transmit Freq Error -7.186 kHz x dB Bandwidth 17.164 MHz



Center 2.422 GHz #Res BW 100 kHz

Transmit Freq Error x dB Bandwidth

Occupied Bandwidth

35.8160 MHz

28.734 kHz 35.616 MHz Report No.: TB-FCC153725

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Span 40 MHz Sweep 4.144 ms (401 pts)

99.00 %

-6.00 dB

Occ BW % Pwr

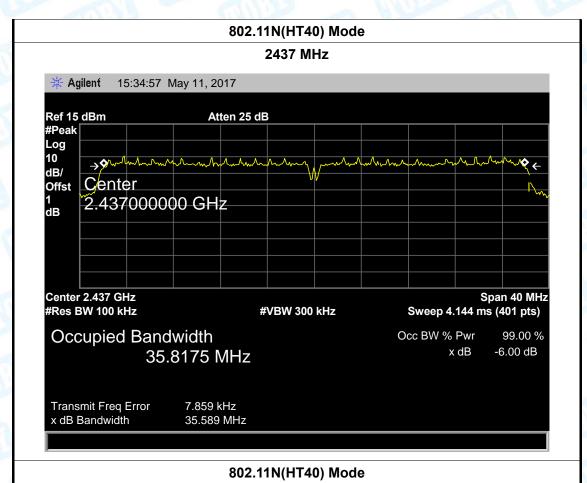
x dB

		The state of the s	A W
EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V	DC 3.6V	
Test Mode:	TX 802.11N(HT40) Mode	e	Miles -
Channel freque	ncy 6dB Bandwidth	99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2422	36.314	35.7600	
2437	36.547	36.0023	>=0.5
2452	36.513	36.0041	
	802.11N(F	IT40) Mode	
	2422	2 MHz	
* Agilent 19	5:34:23 May 11, 2017		
Ref 15 dBm #Peak	Atten 25 dB		
Log			
10	mmmmmmmm.	my pour mountains pour	mhalahaha L
dB/ Offst Cente		<del></del>	
	000000 GHz		hw.
dB 2.422	000000 GHZ		

#VBW 300 kHz



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#### 2452 MHz \* Agilent 15:35:29 May 11, 2017 Ref 15 dBm Atten 25 dB #Peak Log 10 dB/ Center Offst 1 dB 2.452000000 GHz Center 2.452 GHz Span 40 MHz #Res BW 100 kHz Sweep 4.144 ms (401 pts) **#VBW 300 kHz** Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB 35.8370 MHz Transmit Freq Error -2.696 kHz 35.508 MHz x dB Bandwidth



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# 8. Peak Output Power Test

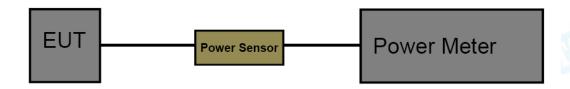
## 8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210			
Test Item Limit Frequency Range(MH			
Peak Output Power	1 Watt or 30 dBm	2400~2483.5	

# 8.2 Test Setup



## 8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v04. The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

# 8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

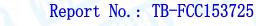


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# 8.5 Test Data

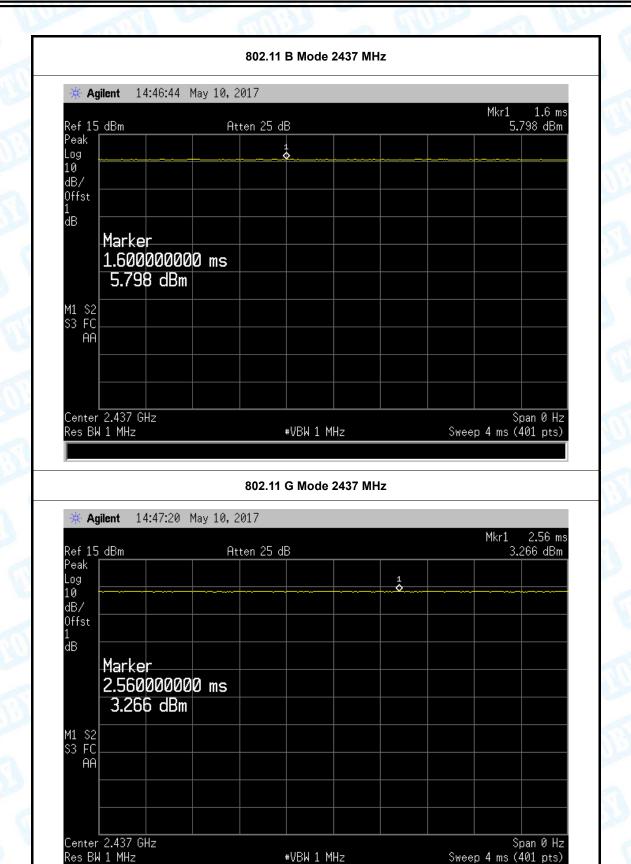
EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.6V	The same of the sa	
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
	2412	9.26	
802.11b	2437	9.28	
	2462	9.24	
	2412	9.15	
802.11g	2437	9.13	
	2462	9.17	30
802.11n	2412	9.12	30
(HT20)	2437	9.11	
(11120)	2462	9.14	
802.11n	2422	9.02	
(HT40)	2437	9.05	
(11140)	2452	9.04	
	Resu	ilt: PASS	<u> </u>

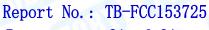
	Duty Cyc	le
Mode	Channel frequency (MHz)	Test Result
	2412	
802.11b	2437	
	2462	
	2412	
802.11g	2437	
	2462	>98%
000 44 =	2412	290 %
802.11n (HT20)	2437	
(11120)	2462	
000 44 =	2422	
802.11n	2437	
(M140)	2452	
(HT40)	2452	



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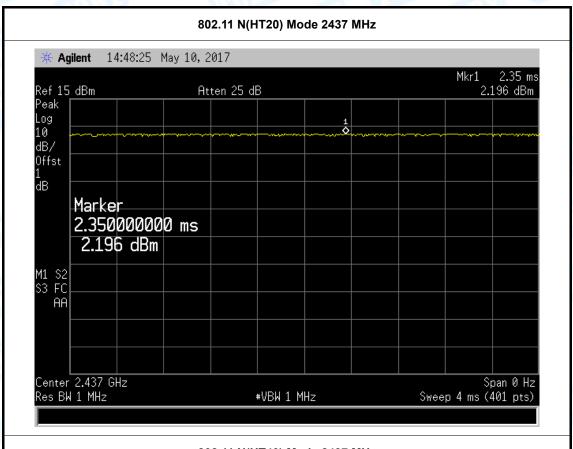


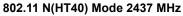


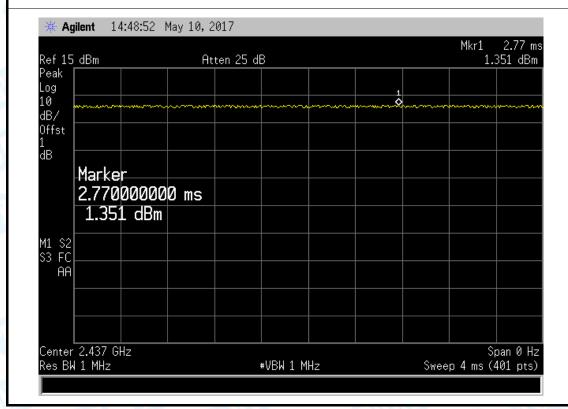




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# 9. Power Spectral Density Test

## 9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)			
Test Item Limit Frequency Range(MHz			
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5	

# 9.2 Test Setup



## 9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v04.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz(5) Set the VBW to: 10 kHz
- (6) Detector: peak(7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

# 9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

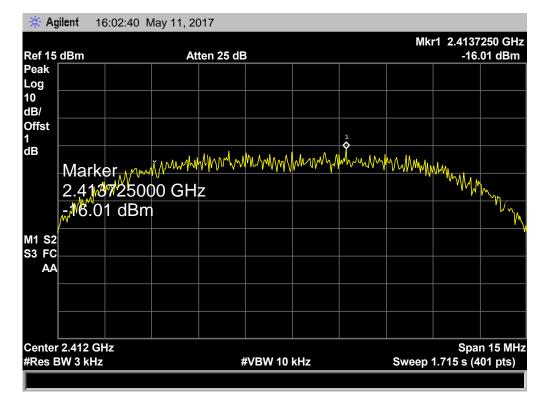


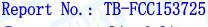
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# 9.5 Test Data

EUT:	Smart Clo	ock Camera	Model:	GF-H100base
Temperature:	25 ℃		Relative Humidity:	55%
Test Voltage:	DC 3.6V	DC 3.6V		
Test Mode:	TX 802.11	2.11B Mode		
Channel Freq	uency	Power	Density	Limit
(MHz)		(3 kH	z/dBm)	(dBm)
2412		-10	6.01	
2437		-16.73 -13.88		8
2462				

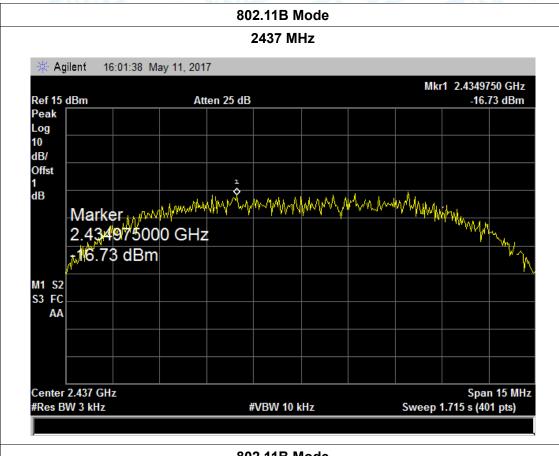
### 802.11B Mode

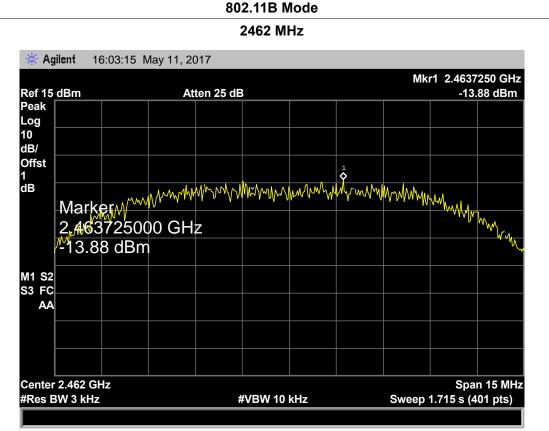






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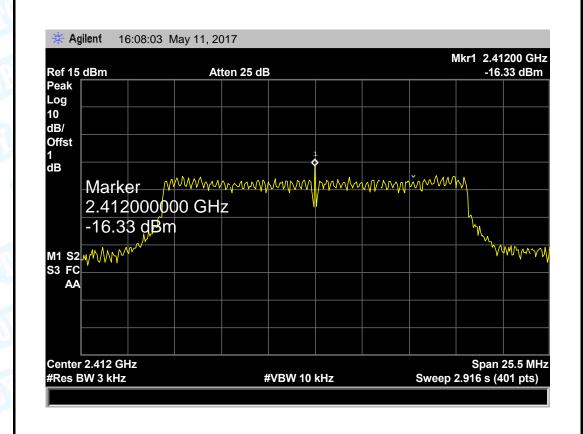
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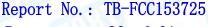
EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	<b>25</b> ℃	Temperature:	25 ℃
Test Voltage:	DC 3.6V		

Test Mode: TX 802.11G Mode

Channel Frequency	Power Density	Limit
(MHz)	(3 kHz/dBm)	(dBm)
2412	-16.33	
2437	-15.99	8
2462	-16.01	

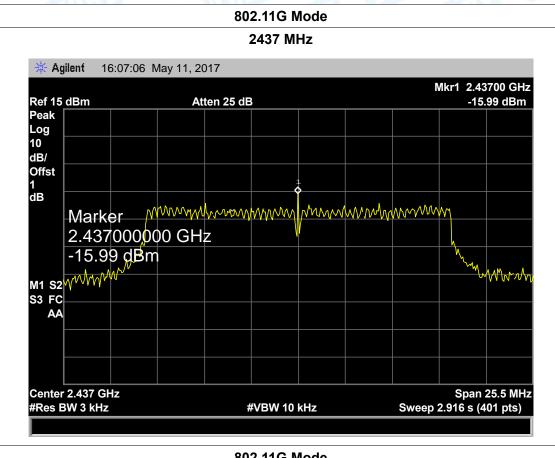
#### 802.11G Mode







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802.11G Mode 2462 MHz \* Agilent 16:07:38 May 11, 2017 Mkr1 2.46200 GHz -16.01 dBm Ref 15 dBm Atten 25 dB Peak Log 10 dB/ Offst 1 dB 2.462000000 GHz -16.01 dBm M1 S2 S3 FC AA Center 2.462 GHz Span 25.5 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 2.916 s (401 pts)



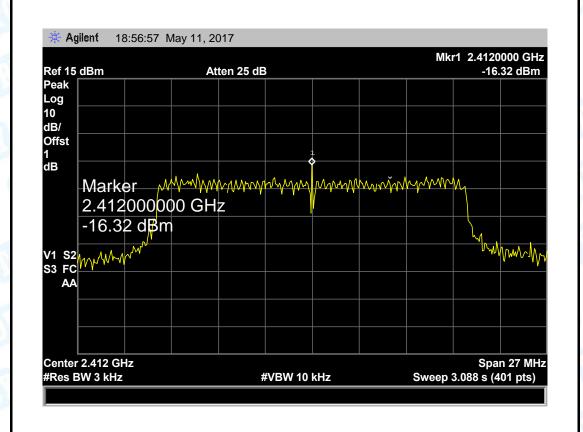
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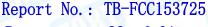
EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	25 ℃	Temperature:	25 ℃
Test Voltage:	DC 3.6V	81 - 6	

Test Mode: TX 802.11N(HT20) Mode

Channel Frequency	Power Density	Limit
(MHz)	(3 kHz/dBm)	(dBm)
2412	-16.32	
2437	-19.31	8
2462	-19.06	

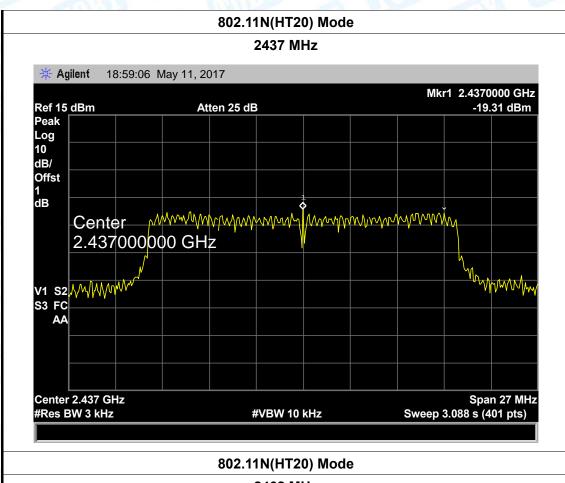
## 802.11N(HT20) Mode

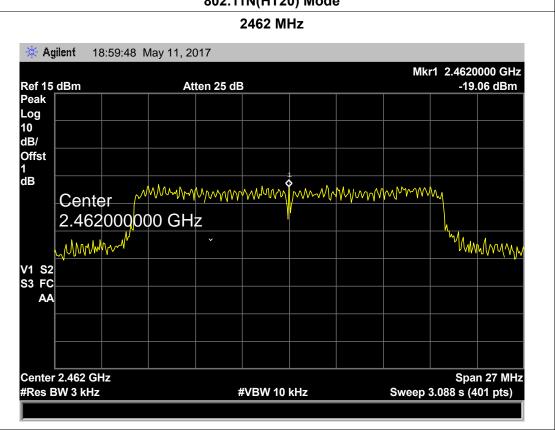






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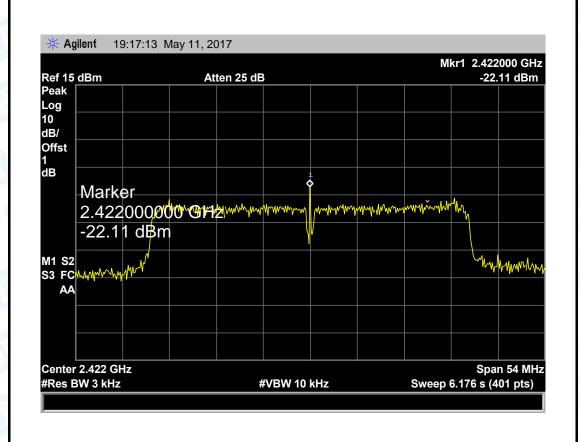


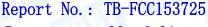
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EUT:	Smart Clock Camera	Model:	GF-H100base
Temperature:	25 ℃	Temperature:	25 ℃
Test Voltage:	DC 3.6V		
Test Mode:	TX 802.11N(HT40) Mode		

Channel Frequency	Power Density	Limit
(MHz)	(3 kHz/dBm)	(dBm)
2422	-22.11	
2437	-22.35	8
2452	-22.18	

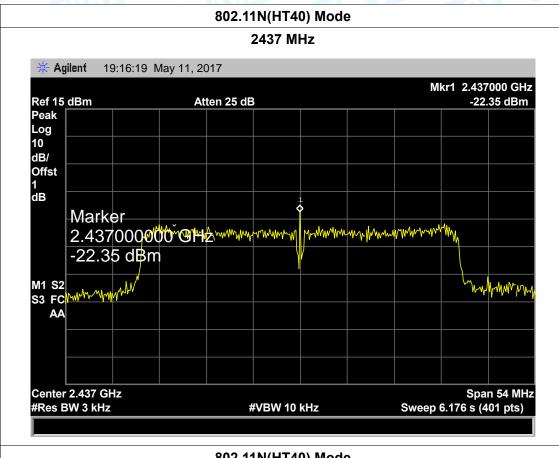
## 802.11N(HT40) Mode







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# 10. Antenna Requirement

# 10.1 Standard Requirement

10.1.1 Standard FCC Part 15.203

## 10.1.2 Requirement

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 use of a standard antenna jack or electrical connector is prohibited.

### 10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 2 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

## Result

The EUT antenna is a Integral Antenna. It complies with the standard requirement.

Antenna Type		
33	□ Permanent attached antenna	
ann	✓ Unique connector antenna	
1003	□ Professional installation antenna	

----END OF REPORT----