

FCC Test Report

Report No.: AGC00008190601FE05

FCC ID : TW5T5810HCA

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION : HD WiFi Camera

BRAND NAME : N/A

MODEL NAME : T5810HCA, Y5810HCA

APPLICANT: Shenzhen Gospell Smarthome Electronic Co., Ltd.

DATE OF ISSUE : Jul 12, 2019

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15.247

REPORT VERSION : V1.0

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CAUTION:

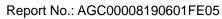
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REPORT REVISE RECORD

	Report Version	Revise Time	Issued Date	Valid Version	Notes
J	V1.0	1	Jul. 12, 2019	Valid	Initial Release



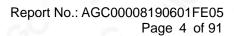
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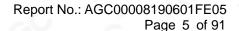






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1. VERIFICATION OF CONFORMITY

	2.10, 2.10, 1.1
Applicant	Shenzhen Gospell Smarthome Electronic Co., Ltd.
Address	East of 01st-04th Floor, Block A, No.1 Industrial park, Fenghuang Gang, South of No.1 Baotian Road, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province 518126, P.R.China
manufacturer	Shenzhen Gospell Smarthome Electronic Co., Ltd.
Address	East of 01st-04th Floor, Block A, No.1 Industrial park, Fenghuang Gang, South of No.1 Baotian Road, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province 518126, P.R.China
Factory	Shenzhen Gospell Smarthome Electronic Co., Ltd.
Address	East of 01st-04th Floor, Block A, No.1 Industrial park, Fenghuang Gang, South of No.1 Baotian Road, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province 518126, P.R.China
Product Designation	HD WiFi Camera
Brand Name	N/A
Test Model	T5810HCA
Series Model	Y5810HCA
Difference description	All the same except for the model name
Date of test	Jul. 01, 2019 to Jul. 10, 2019
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Tested By

Draven Li(Li Ming Liang)

Reviewed By

Max Zhang

Max Zhang

Max Zhang(Zhang Yi)

Jul. 12, 2019

Approved By

Forrest Lei(Lei Yonggang)

Authorized Officer

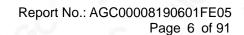
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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "HD WiFi Camera". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.412 GHz~2.462GHz
Output Power(Average)	IEEE 802.11b:17.81dBm; IEEE 802.11g:15.85dBm; IEEE 802.11n(20):13.66dBm; IEEE 802.11n(40):13.93dBm
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	11 _ C
Hardware Version	T5810HCA-M01
Software Version	E_800.U5810HCA.350
Antenna Designation	PCB antenna
Antenna Gain	3.0dBi
Power Supply	DC 5V by adapter

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	100	2412 MHZ
	2	2417 MHZ
NO CO	3	2422 MHZ
	4	2427 MHZ
60 c	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
100	9	2452 MHZ
0	10	2457 MHZ
GO .	11	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11, For 40MHZ bandwidth system use Channel 3 to Channel 9



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2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCI	NCBPS		NDBPS		ata Mbps) nsGl
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

Symbol	Explanation	
NSS	Number of spatial streams	
R	Code rate	
NBPSC	Number of coded bits per single carrier	
NCBPS	Number of coded bits per symbol	
NDBPS	Number of data bits per symbol	
GI	Guard interval	

2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for FCC ID: TW5T5810HCA filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

KDB 558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmissio n system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

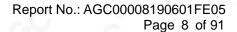
Not available for this EUT intended for grant.



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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB



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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal operating

Note:

Transmit by 802.11b with Date rate (1/2/5.5/11)

Transmit by 802.11g with Date rate (6/9/12/18/24/36/48/54)

Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)

Transmit by 802.11n (40MHz) with Date rate (13.5/27/40.5/54/81/108/121.5/135)

Note:

- The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- 3. The test software is the REALTEK 11n 8188FU USB WLAN NIC Massproduction Kit which can set the EUT into the individual test modes.



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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:

EUT	0	AE

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	HD WiFi Camera	T5810HCA	TW5T5810HCA	EUT
2	Adapter	HA-19050100UU	Input: AC 100-240V, 50/60Hz, 0.25A Output: DC 5.0V—1000A	Market with EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant



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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China			
Designation Number	CN1259			
FCC Test Firm Registration Number	975832			
A2LA Cert. No.	5054.02			
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA			

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 10, 2019	Jun. 09, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 28, 2018	Aug. 27, 2019

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 10, 2019	Jun. 09, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
Power sensor	Aglient	U2021XA	MY54110007	Sep. 20, 2018	Sep. 19, 2019
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 10, 2019	Jun. 09, 2020
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 10, 2019	Jun. 09, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019





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7. OUTPUT POWER

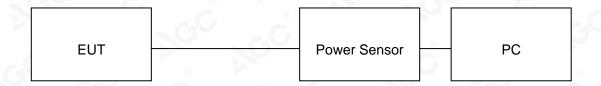
7.1. MEASUREMENT PROCEDURE

For average power test:

- 1. Connect EUT RF output port to power sensor through an RF attenuator.
- 2. Connect the power sensor to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) **AVERAGE POWER SETUP**





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7.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	OUTPUT POWER
TEST MODE	802.11b with data rate 1

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	17.81	30	Pass
2.437	17.56	30	Pass
2.462	17.47	30	Pass

TEST ITEM	OUTPUT POWER		NO.
TEST MODE	802.11g with data rate 6	-6	8

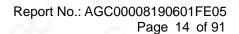
Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	15.85	30	Pass
2.437	15.62	30	Pass
2.462	15.33	30	Pass

TEST ITEM	OUTPUT POWER	0		10
TEST MODE	802.11n 20 with data rate 6.5	GO	- 6	0

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	13.12	30	Pass
2.437	13.48	30	Pass
2.462	13.66	30	Pass



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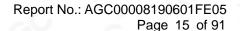




TEST ITEM	OUTPUT POWER	C	0		
TEST MODE	802.11n 40 with data rate 13.5		GO.	c _s C	

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.422	13.54	30	Pass
2.437	13.70	30	Pass
2.452	13.93	30	Pass







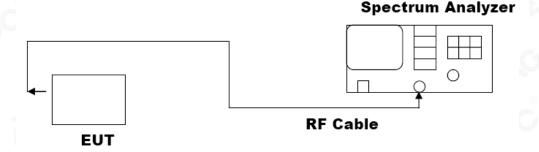
8. 6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

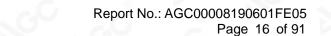
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)





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8.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH	,0	-6	0	
TEST MODE	802.11b with data rate 11			CO	0

LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Applicable Limits			
	Test Dat	a (MHz)	Criteria	
>500KHZ	Low Channel	9.041	PASS	
	Middle Channel	8.508	PASS	
	High Channel	9.039	PASS	

TEST ITEM	6DB BANDWIDTH			10
TEST MODE	802.11g with data rate 54	100	c.C	8

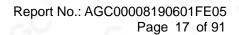
LIMITS AND MEASUREMENT RESULT				
A P I I . I ! ! .	Applicable Limits			
Applicable Limits	Test Data (MHz)		Criteria	
>500KHZ	Low Channel	16.39	PASS	
	Middle Channel	16.38	PASS	
	High Channel	16.36	PASS	

TEST ITEM	6DB BANDWIDTH		1,60	- GO
TEST MODE	802.11n 20 with data rate 65	- 6	0	

	LIMITS AND MEAS	UREMENT RESULT	
Applicable Limits	Applicable Limits		
	Test Da	ta (MHz)	Criteria
>500KHZ	Low Channel	17.59	PASS
	Middle Channel	17.57	PASS
	High Channel	17.57	PASS



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TEST ITEM	6DB BANDWIDTH	0	8		
TEST MODE	802.11n 40 with data rate 135		0	c _s C	

	LIMITS AND MEASU	IREMENT RESULT	
		Applicable Limits	
Applicable Limits	Test Dat	a (MHz)	Criteria
3 60	Low Channel	35.95	PASS
>500KHZ	Middle Channel	36.06	PASS
	High Channel	36.30	PASS





802.11b TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL





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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



802.11g TEST RESULTTEST PLOT OF BANDWIDTH FOR LOW CHANNEL





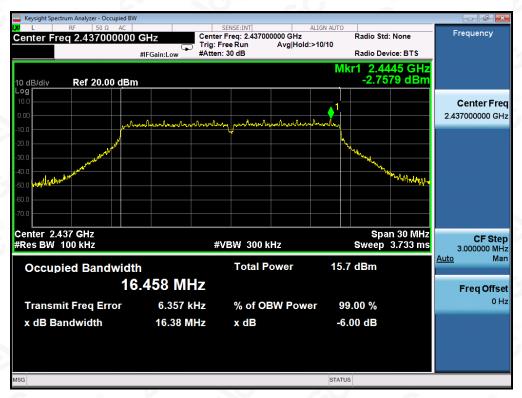
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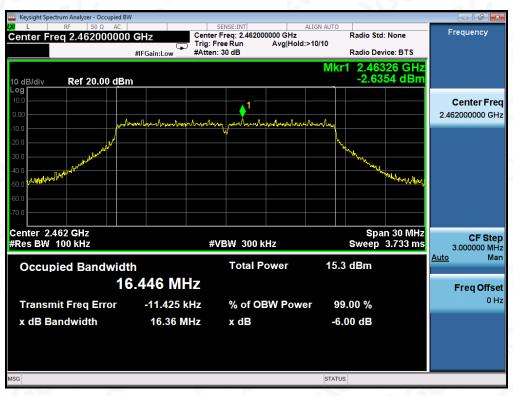
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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802.11n (20) TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL





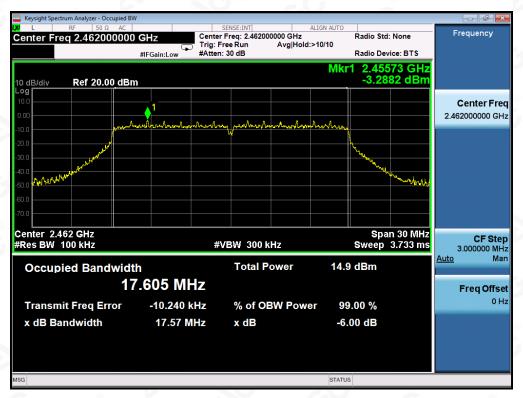
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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



802.11n (40) TEST RESULT
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW>RBW) are conform to the requirement.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USEDJN

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

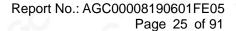
LIMITS AND MEASUREMENT RESULT					
A	Measurement Result				
Applicable Limits	Test Data	Criteria			
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -30dBc than the limit Specified on the BOTTOM Channel	PASS			
power that is produce by the intentional radiator shall be at least 30 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -30dBc than the limit Specified on the TOP Channel	PASS			



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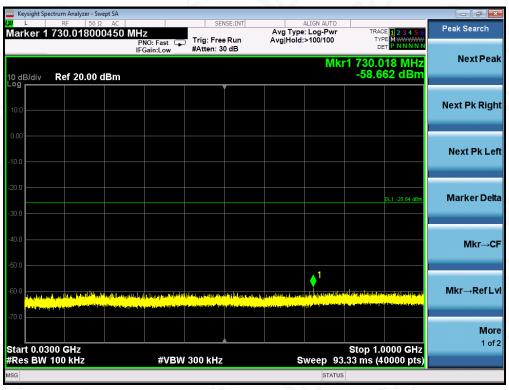
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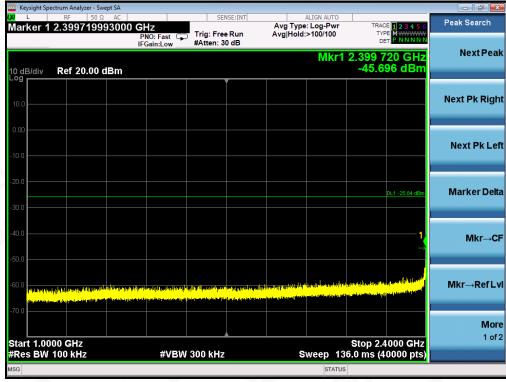
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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11b FOR MODULATION IN LOW CHANNEL







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Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

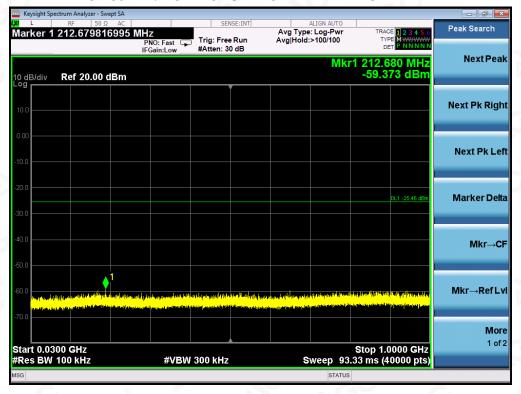
Xixiang, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com

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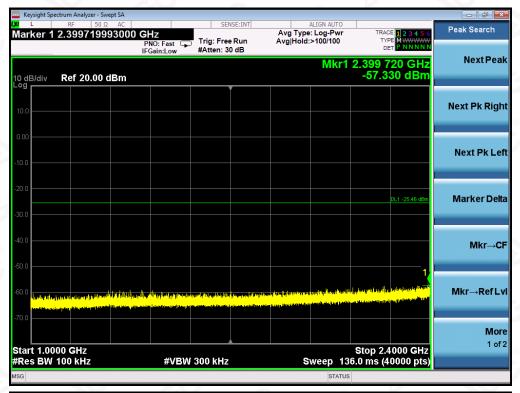
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL

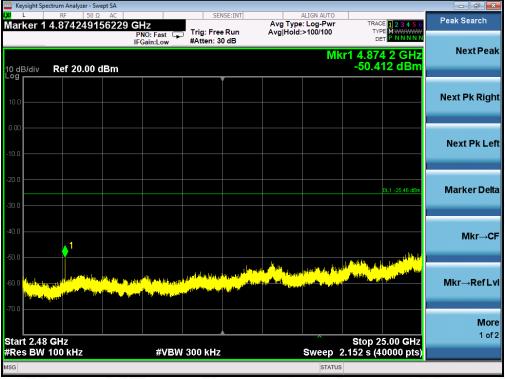




Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,





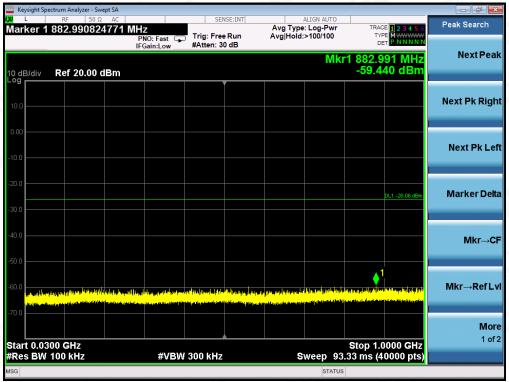


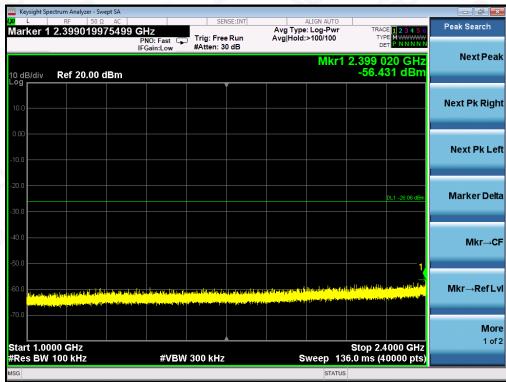


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN HIGH CHANNEL







Attestation of Global Compliance(Shenzhen)Co.,Ltd.

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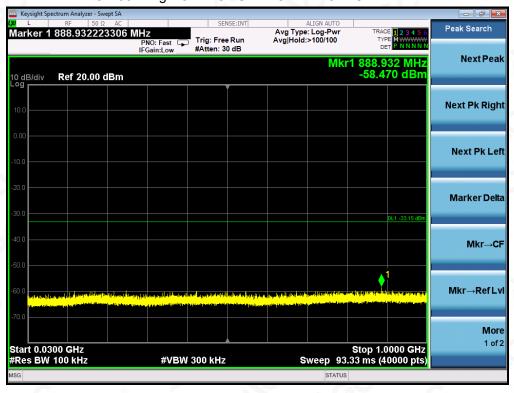
Xixiang, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com

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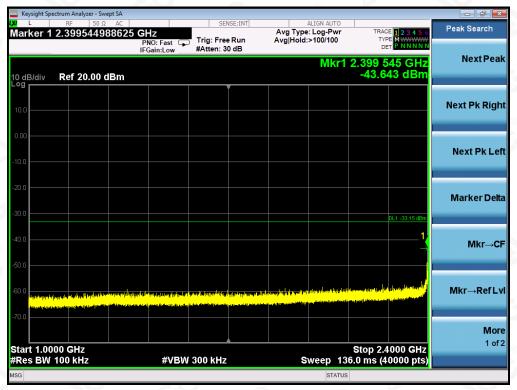
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL





Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,





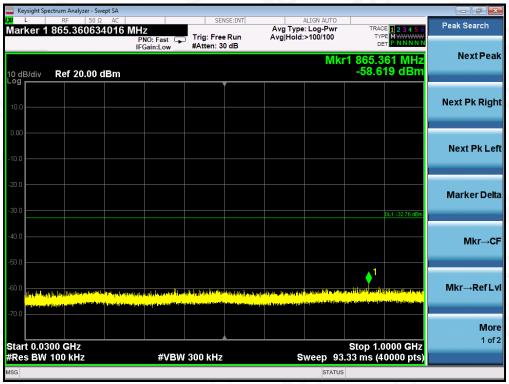


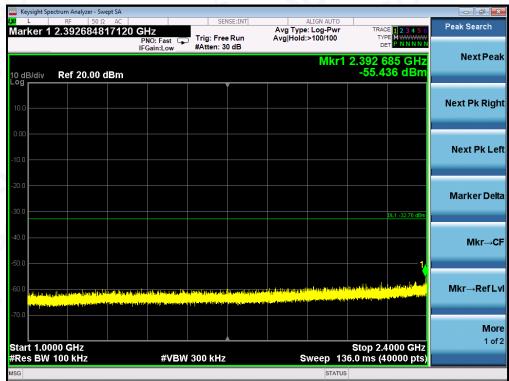


Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,



TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN MIDDLE CHANNEL







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Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

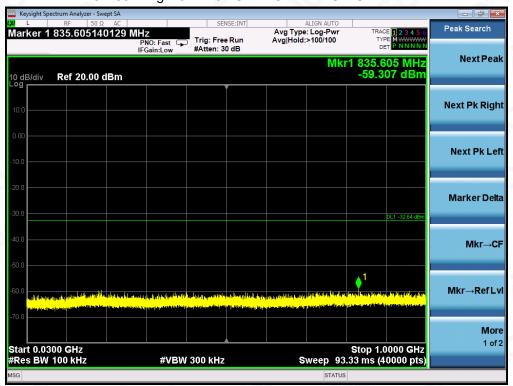
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN HIGH CHANNEL



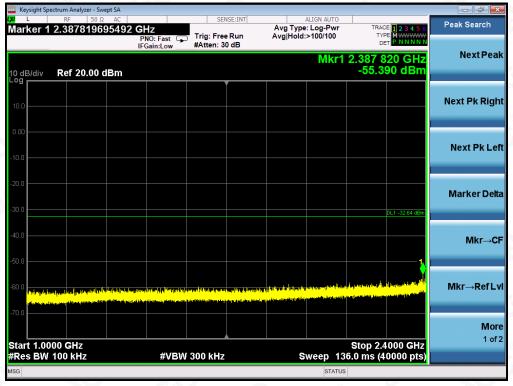


Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

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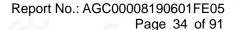








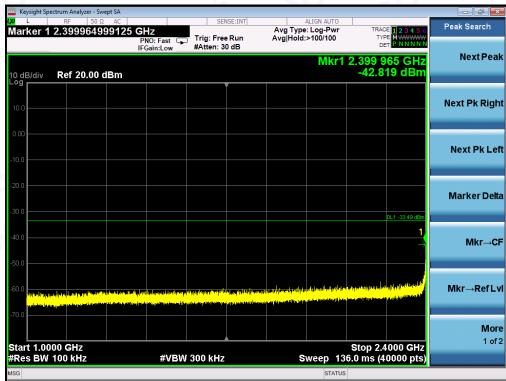
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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n20 FOR MODULATION IN LOW CHANNEL







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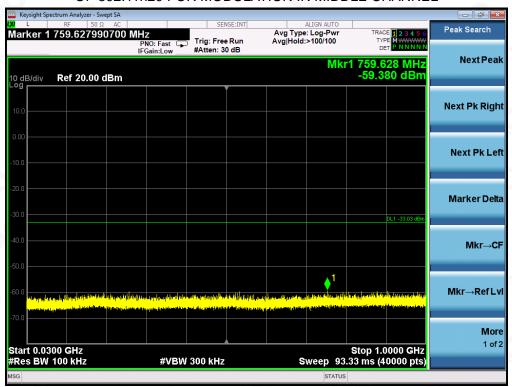
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL

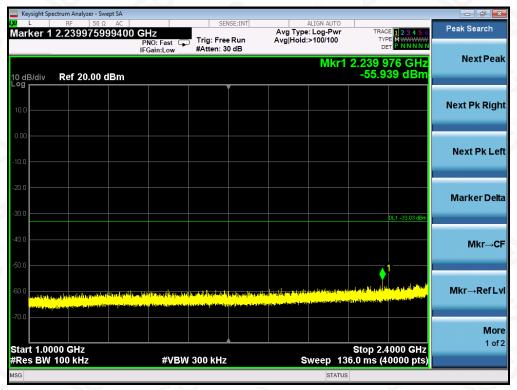


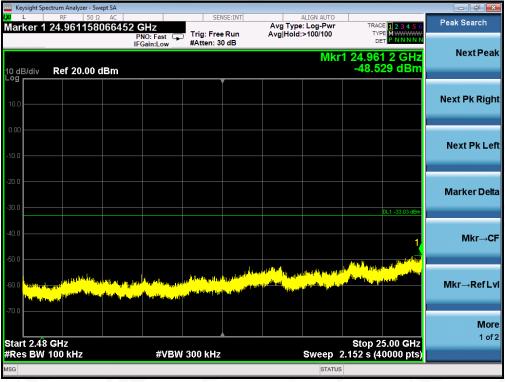


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Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,





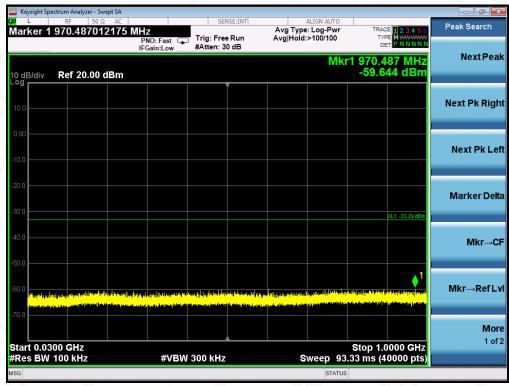


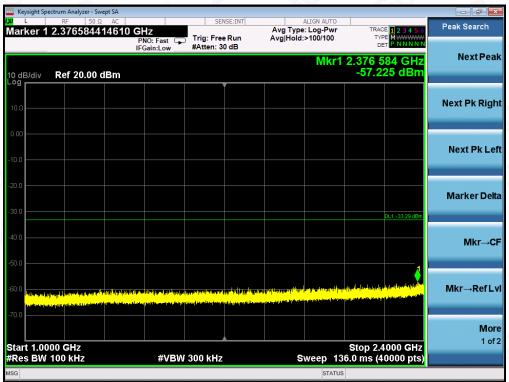


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL







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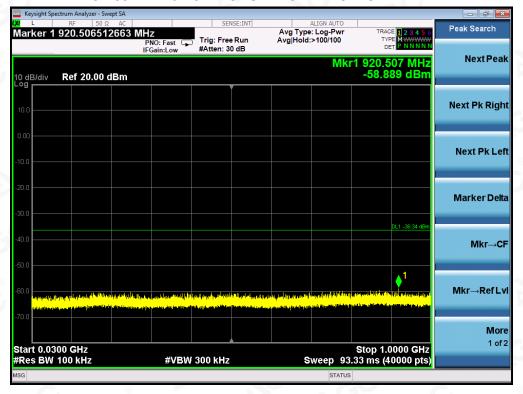
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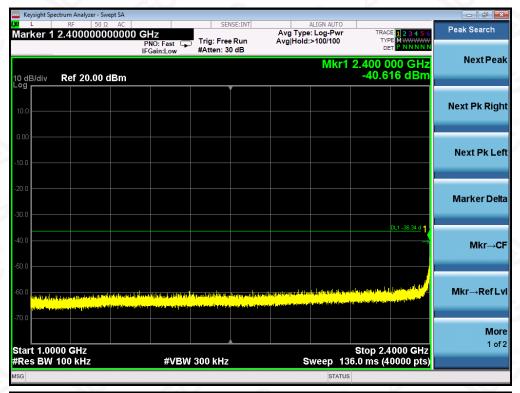
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n40 FOR MODULATION IN LOW CHANNEL





Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,





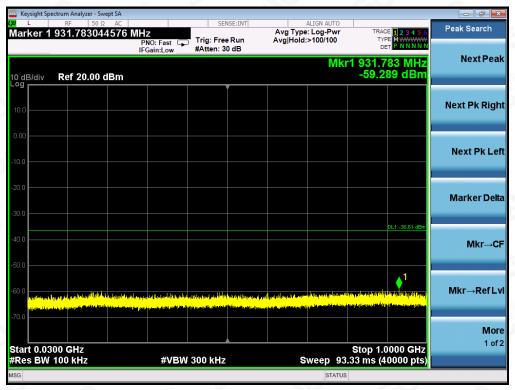


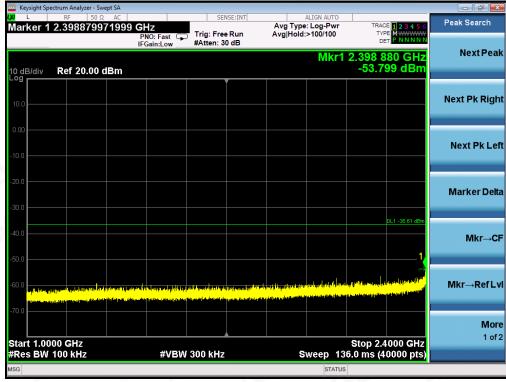


Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,



TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN MIDDLE CHANNEL







Attestation of Global Compliance(Shenzhen)Co.,Ltd.

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