

FCC Test Report

Report No.: AGC00008190305TE05

F	CC ID	: TW5T5925HCB	
A	PPLICATION PURPOSE	: Original Equipment	
P	RODUCT DESIGNATION	: HD Outdoor WiFi Camera	
B	RAND NAME	: N/A	
M	IODEL NAME	: Y5925HCB, T5925HCB	
C	LIENT	: Shenzhen Gospell Smarthome Electronic Co., Ltd.	
D	ATE OF ISSUE	: Apr. 08. 2019	
	TANDARD(S) EST PROCEDURE(S)	: FCC Part 15.247	
R	EPORT VERSION	: V1.0	

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Apr. 08. 2019	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Gospell Smarthome Electronic Co., Ltd.		
Address	East of 01st-04st Floor,Block A,No.1 Industrial park,Fenghuanggang,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-04st Floor,Block A,No.1 Industrial park,Fenghuanggang,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-04st Floor,Block A,No.1 Industrial park,Fenghuanggang,South of No.1 Baotian Road,Xixiang street,Bao'an District,Shenzhen City,Guangdong Province 518126,P.R.China		
Product Designation	HD Outdoor WiFi Camera		
Brand Name	N/A		
Test Model	Y5925HCB		
Series Model	T5925HCB		
Declaration of Difference	All the same except the model name.		
Date of test	Mar. 25. 2019 to Apr. 08. 2019		
Deviation None			
Condition of Test Sample	Normal		
Test Result Pass			
Report Template	AGCRT-US-BGN/RF		
Siles .			

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.

ested by

Draven li

Draven Li (Li Mingliang) Apr. 08, 2019

Max 2

Apr. 08, 2019

Approved By

Reviewed by

Forversto en

Forrest Lei(Lei Yonggang) Authorized Officer

Max Zhang (Zhang Yi)

Apr. 08, 2019

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "HD Outdoor 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:14.69dBm; IEEE 802.11g:11.02dBm; IEEE 802.11n(20):10.58dBm; IEEE 802.11n(40):10.97dBm
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	11 A G
Hardware Version	T5925HCB-M01
Software Version	E_800.Y5925HCB.353
Antenna Designation	External antenna
Antenna Gain	2.0dBi
Power Supply	DC 5V by adapter

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
E Thomas Company Company Company	-C 1 60	2412 MHZ
SC in	2	2417 MHZ
	A The 3 of The and the second	2422 MHZ
The score compared 6	G ⁴	2427 MHZ
C C	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
The The There is a second	· · · · · · · · · · · · · · · · · · ·	2442 MHZ
A Constanting Company of Company of Company	86	2447 MHZ
NGC NC	9	2452 MHZ
	10	2457 MHZ
E There in the second	11 60	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

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MCS Index	Nss	Nss	Modulation	R	NBPSC	NCI	BPS	NDI	BPS	rate(I	ata Mbps) nsGl
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz	
0	1	BPSK	1/2	1 5	52	108	26	54	6.5	13.5	
1	1 1 ance	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	6	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	The Lavon of	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 Mar Frank Comment	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 - State	Guard interval

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

This submittal(s) (test report) is intended for FCC ID: TW5T5925HCB 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, $Uc = \pm 3.2 dB$
- 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:	$\frac{1}{1000}$ by 802 11b with Data rate (1/2/5 5/11)
	it by 802.11b with Date rate (1/2/5.5/11) it by 802.11g with Date rate (6/9/12/18/24/36/48/54)
	it by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)
	it by 802.11n (40MHz) with Date rate (13.5/27/40.5/54/81/108/121.5/135)

Note:

- 1. 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.

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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

EUT	6 ^{\$}	AE
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5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	HD Outdoor WiFi Camera	Y5925HCB	TW5T5925HCB	EUT
2	Adapter 1	S005AYU0500100	DC5V/1A	AE
3	Adapter 2	HA-1905100UU	DC5V/1A	AE

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. 12, 2018	Jun. 11, 2019
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. 12, 2018	Jun. 11, 2019
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. 12, 2018	Jun. 11, 2019
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 12, 2018	Jun. 11, 2019
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

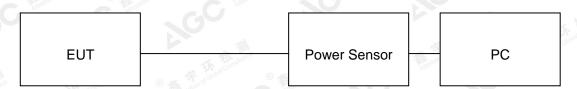
For average power test:

- 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	SOU
TEST MODE	802.11b with data rate 1	The Comments

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	14.31	30	Pass
2.437	14.69	30	Pass
2.462	14.54	30	Pass

TEST ITEM	OUTPUT POWER	C Automot Globa	C Attestation of C	0
TEST MODE	802.11g with data rate 6			

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	11.02	30	Pass
2.437	10.84	30	Pass
2.462	10.57	30	Pass

TEST ITEM	OUTPUT POWER		The the second
TEST MODE	802.11n 20 with data rate 6.5	The Company	Contraction of Contract

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	10.58	30	Pass
2.437	10.57	30	Pass
2.462	10.01	30	Pass

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Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
8 # Jun of Global			the wares
TEST MODE	802.11n 40 with data rate 13.5		
TEST ITEM	OUTPUT POWER	C The state of the	ton of Global C
[Cloba Coltri	2 Those of F

(GHz)	(авт)	(dBm)	
2.422	10.97	30	Pass
2.437	9.84	30	Pass
2.452	9.60	30	Pass

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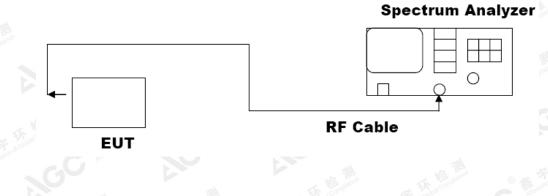
8.6 DB BANDWIDTH

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	C Attestation of C	C Alteration of Gou	C Atestation of
TEST MODE	802.11b with data rate 11			G

LIMITS AND MEASUREMENT RESULT

Applicable Limits	Applicable Limits			
	Test Data	(MHz)	Criteria	
SCO	Low Channel	9.023	PASS	
>500KHZ	Middle Channel	8.978	PASS	
	High Channel	9.047	PASS	

TEST ITEM	6DB BANDWIDTH	C Attestation of C	CC Hester	NO.
TEST MODE	802.11g with data rate 54	C i		

LIMITS AND MEASUREMENT RESULT				
Analiaahla Limita	Applicable Limits			
Applicable Limits	Test Data (MHz)		Criteria	
NOU	Low Channel	16.38	PASS	
>500KHZ	Middle Channel	16.38	PASS	
C # Antona Const Con	High Channel	16.38	PASS	

TEST ITEM	6DB BANDWIDTH	C Attestation of Cat	G	S
TEST MODE	802.11n 20 with data rate 65			The second

	LIMITS AND MEASU	REMENT RESULT	
Applicable Limite		Applicable Limits	
Applicable Limits	Test Data	a (MHz)	Criteria
	Low Channel	17.57	PASS
>500KHZ	Middle Channel	17.58	PASS
Some Complete	High Channel	17.59	PASS

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TEST MODE 802.11n 40 with data rate 135	Attestation of C			
	BL Janes			
LIMITS AND MEASUREMENT RESULT				

Applicable Limite	Applicable Limits			
Applicable Limits	Test Data (MHz)		Criteria	
CO The second	Low Channel	36.35	PASS	
>500KHZ	Middle Channel	36.34	PASS	
	High Channel	36.07	PASS	

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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

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802.11g TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

STATUS



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



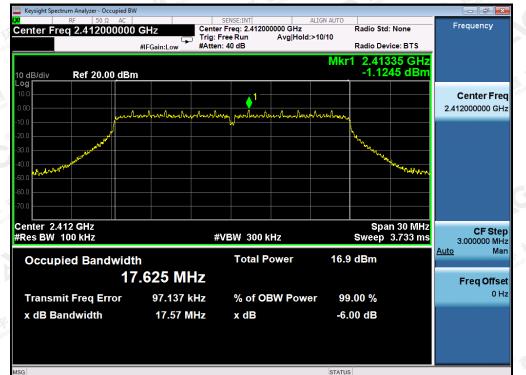
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802.11n (20) TEST RESULT

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

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

STATUS



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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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 MEAS	SUREMENT RESULT		
Applicable Limite	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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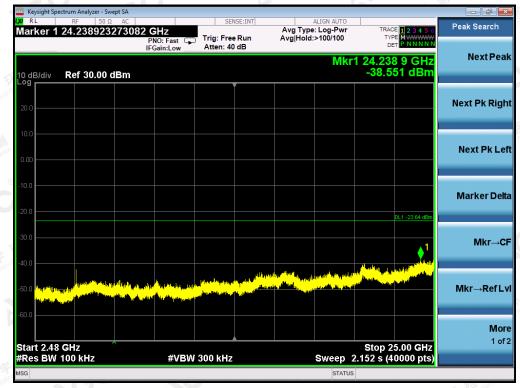


Peak Search Avg Type: Log-Pwi Avg|Hold:>100/100 92 MHz Trig: Free Run Atten: 40 dB PNO: Fast IFGain:Low Next Pea Mkr1 987.972 MHz -49.362 dBm I0 dB/div Ref 30.00 dBm Next Pk Right Next Pk Left Marker Delta 1 -23.64 d Mkr→C Mkr→Ref Lvi More 1 of 2 Stop 1.0000 GHz Sweep 93.33 ms (40000 pts) Start 0.0300 GHz #Res BW 100 kHz #VBW 300 kHz Marker 1 2.397619940499 GHz PNO: Fast IFGain:Low Peak Search Avg Type: Log-Pwr Avg|Hold:>100/100 Trig: Free Run Atten: 40 dB TYP DE Next Peak Mkr1 2.397 620 GHz -43.706 dBm Ref 30.00 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta 1 -23.64 c Mkr→CF Mkr→RefLv More Start 1.0000 GHz #Res BW 100 kHz 1 of 2 Stop 2.4000 GHz 136.0 ms (40000 pts) #VBW 300 kHz Sweep

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

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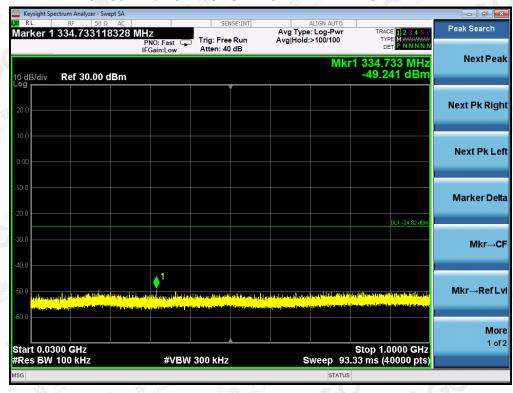
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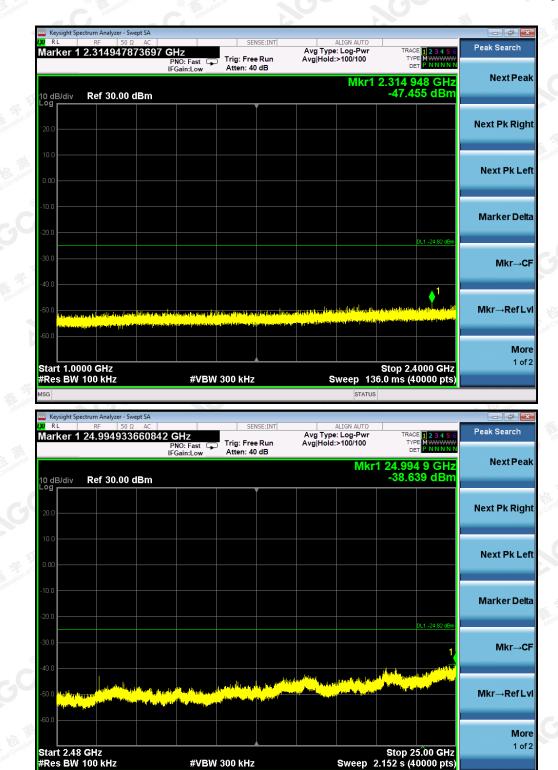
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



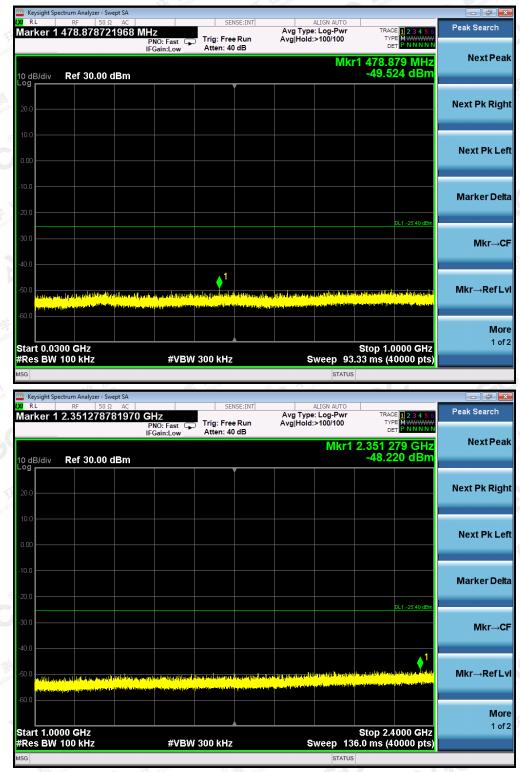
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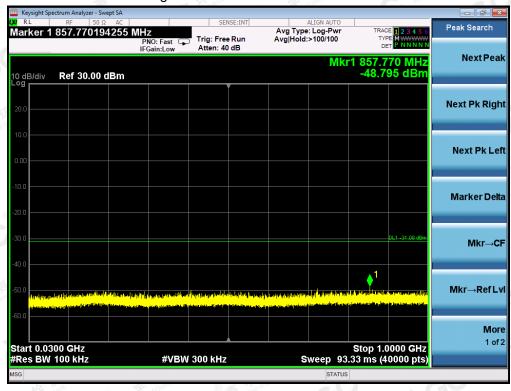
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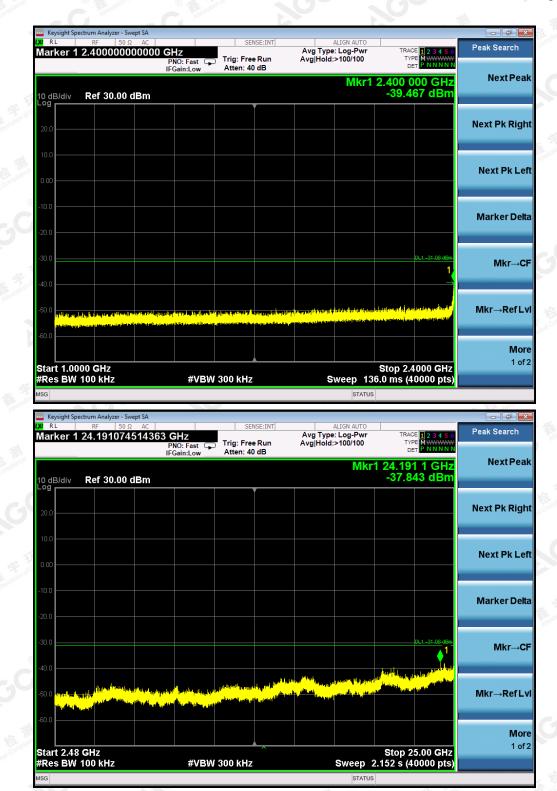
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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL



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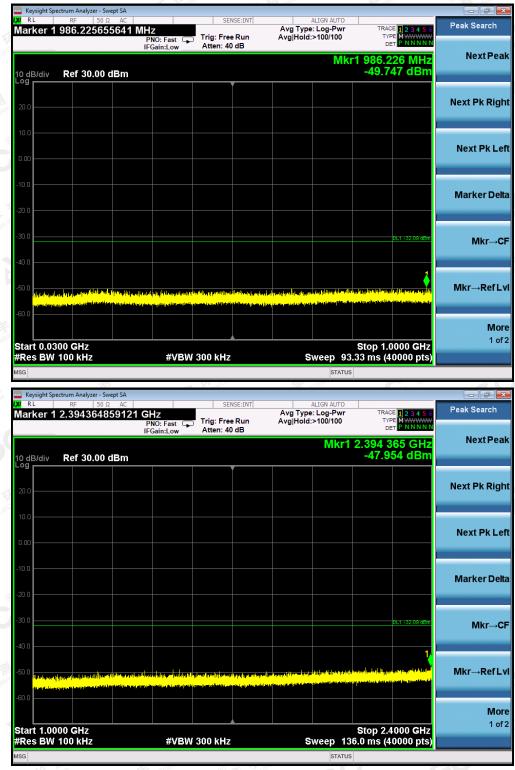
Report No.: AGC00008190305TE05 Page 30 of 91



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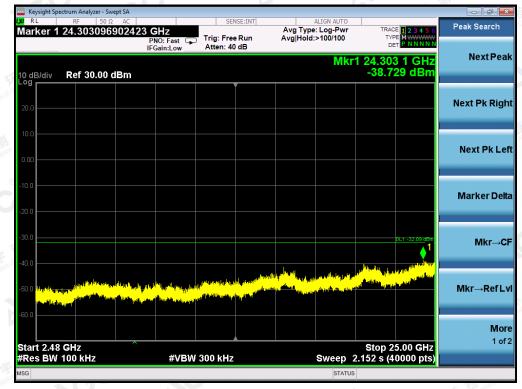
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN MIDDLE CHANNEL

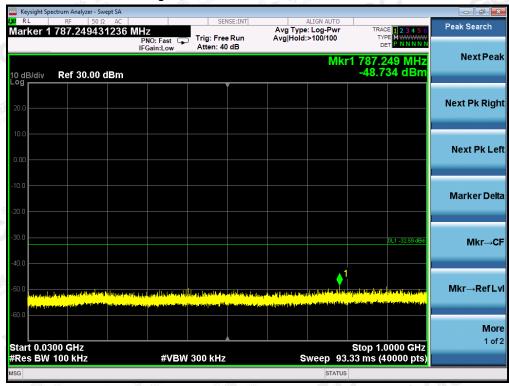
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE

OF 802.11g FOR MODULATION IN HIGH CHANNEL

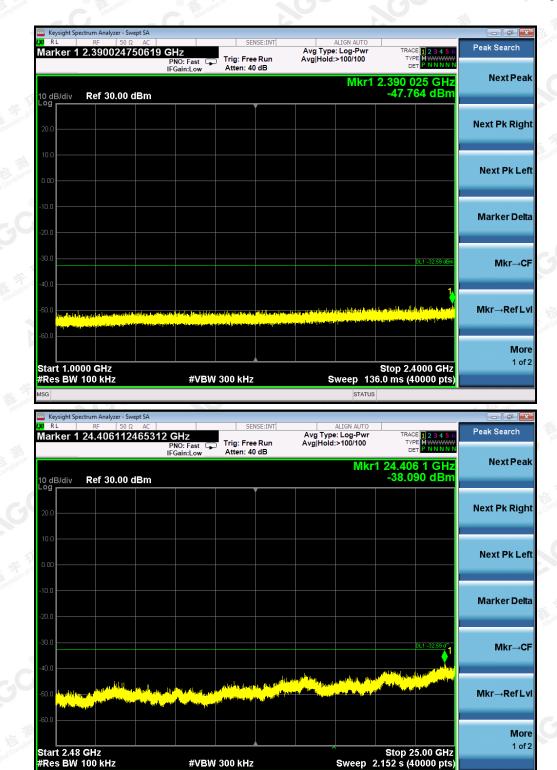


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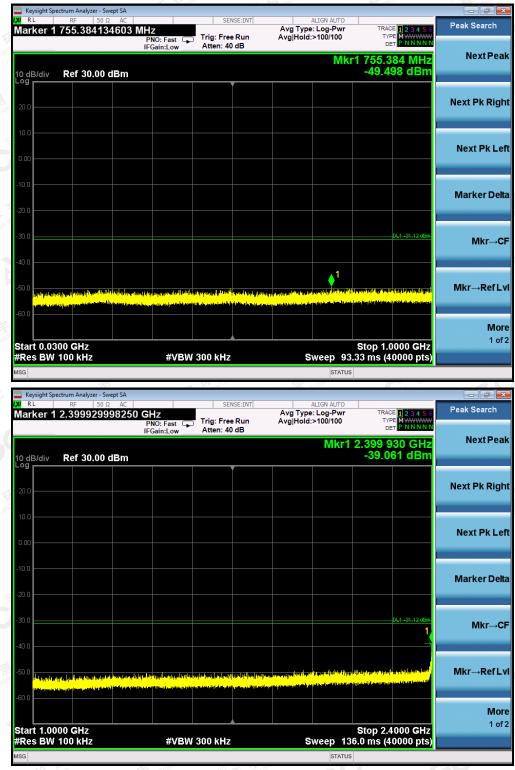
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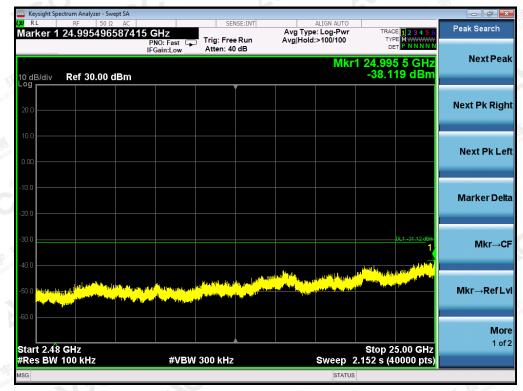


TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n20 FOR MODULATION IN LOW CHANNEL

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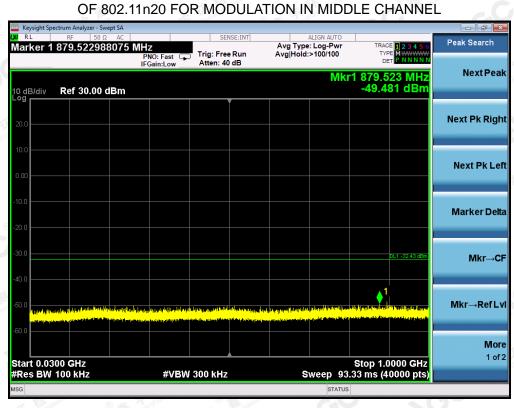
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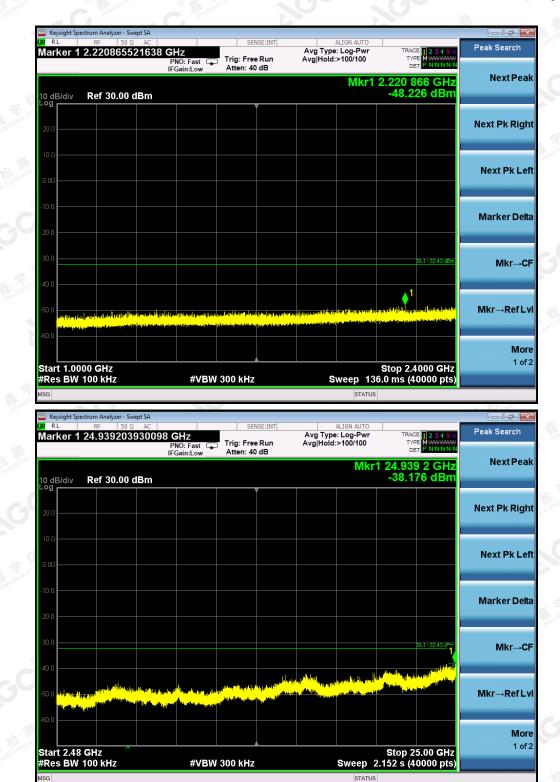
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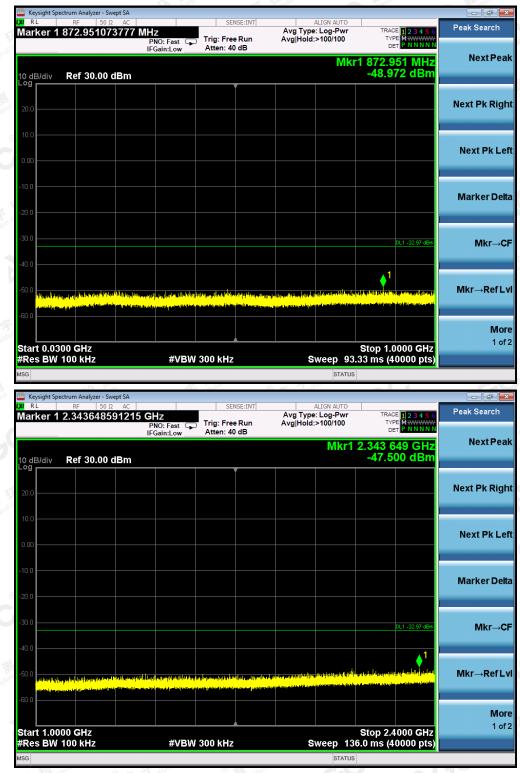


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL

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Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC				
RL RF 50Ω AC Iarker 1 24.26538082202	I GHZ PNO: Fast Trig: Free Run IFGain:Low Atten: 40 dB	ALIGN AUTO Avg Type: Log-Pwr Avg[Hold:>100/100	TRACE 123456 TYPE MWWWW DET P N N N N N	Peak Search
0 dB/div Ref 30.00 dBm	riten to ab	Mkr1	24.265 4 GHz -37.559 dBm	NextPea
og				Next Pk Righ
0.00				Next Pk Le
10.0				Marker De
30.0			DL1 -32.97.0 1	Mkr→0
40.0		in the second		Mkr→RefL
50.0			Stop 25.00 GHz	Мо 1 о
Res BW 100 kHz	#VBW 300 kHz	Sweep 2.	152 s (40000 pts)	

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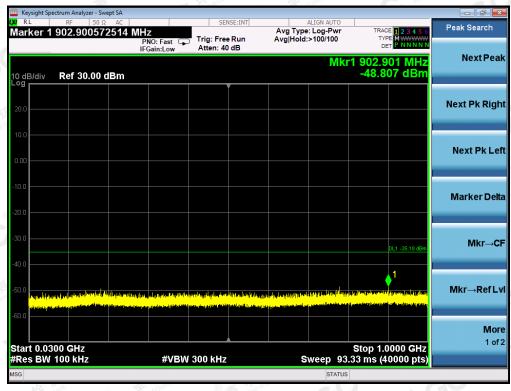
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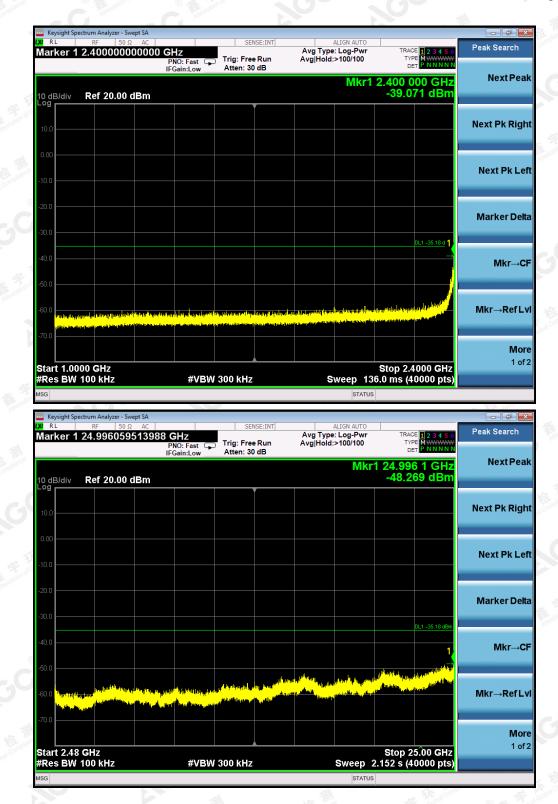
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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n40 FOR MODULATION IN LOW CHANNEL



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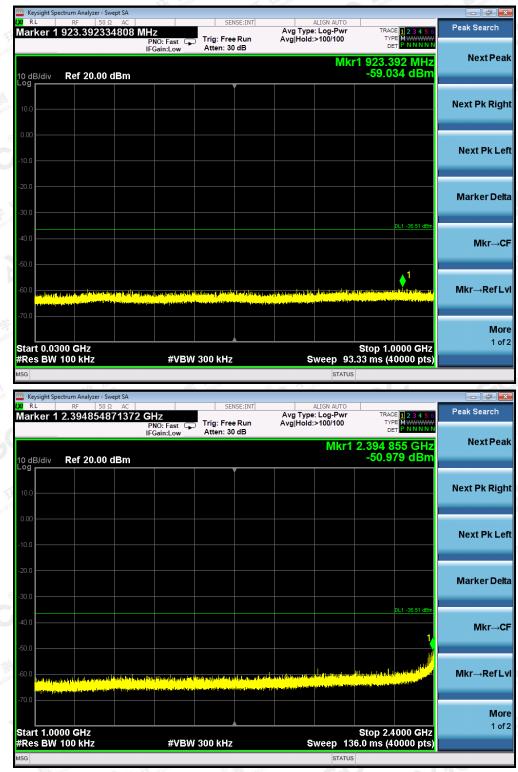
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN MIDDLE CHANNEL

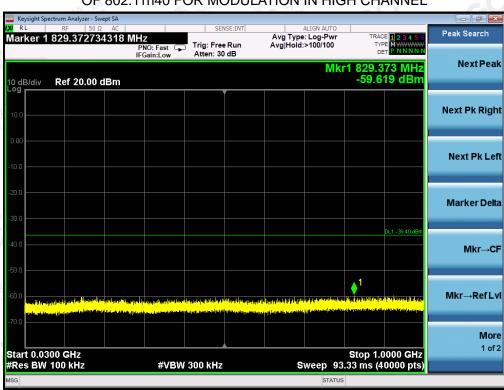
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE



OF 802.11n40 FOR MODULATION IN HIGH CHANNEL

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 Marker 1 24.992119027976 GHz PFGain:Low
 Trig: Free Run Atten: 30 dB
 Avg Type: Log-Pwr AvgHold:>100/100
 Trice: 1234.55 Trice: 1234.55 AvgHold:>100/100
 P24k Search

 10 dB/div
 Ref 20.00 dBm
 -46.856 dBm
 -46.856 dBm
 Next Pe Right

 100
 -46.856 dBm
 -46.856 dBm
 Next Pk Right

 200
 -46.856 dBm
 -46.856 dBm
 Next Pk Right

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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 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 method of AVGPSD-1 in the ANSI C63.10 (2013) item 11.10 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

	Globa
TEST MODE 802.11b with data rate 1	S

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	0.331	6 8	Pass
Middle Channel	-0.297	8	Pass
High Channel	-0.432	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY		
TEST MODE	802.11g with data rate 6	The the man	Compared Constant

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-5.585	8	Pass
Middle Channel	-7.436	8	Pass
High Channel	-6.920	8	Pass

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TEST ITEM	POWER SPECTRAL DENSITY	The The and the The	A Compliance
TEST MODE	802.11n 20 with data rate 6.5	C These of the second co	C.C
and the second second	And a second sec		No.
Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-6.641	8	Pass
Middle Channel	-8.107	8	Pass
High Channel	-8.452	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY	NO.	
TEST MODE	802.11n 40 with data rate 13.5	The the first	The second compares
	the man is the second	Q . John	W the second

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-10.035	8	Pass
Middle Channel	-10.876	8	Pass
High Channel	-11.218	8	Pass

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802.11b TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

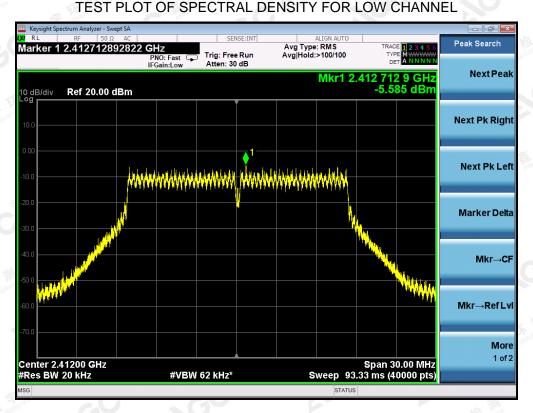


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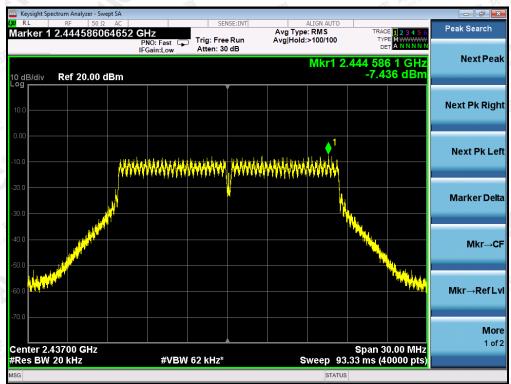
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

802.11g TEST RESULT

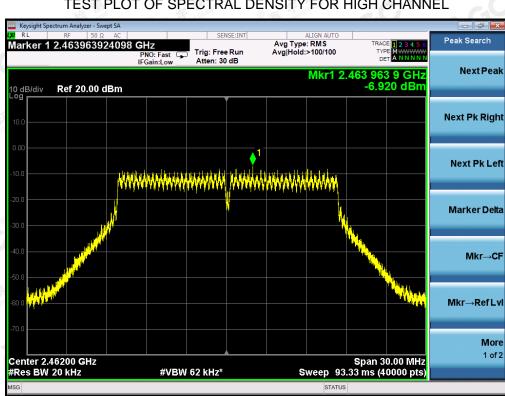


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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



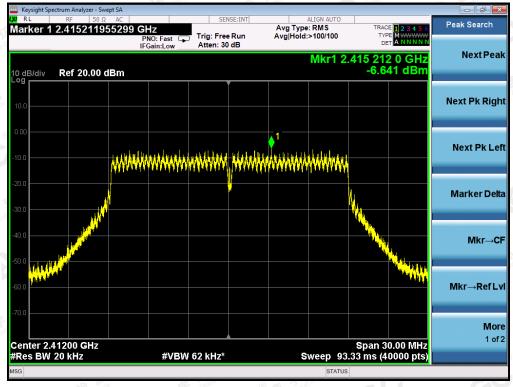
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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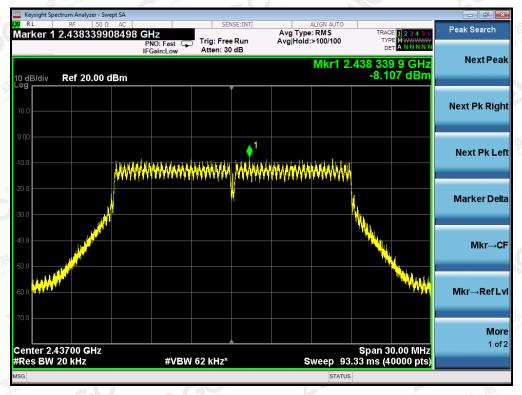


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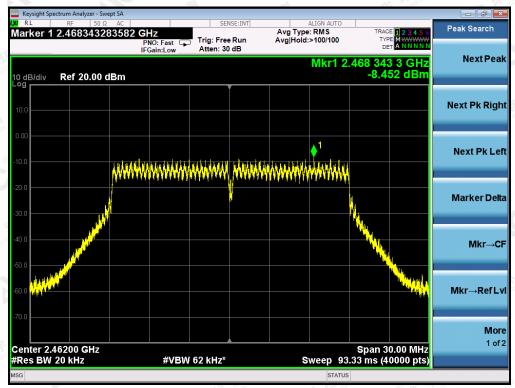


802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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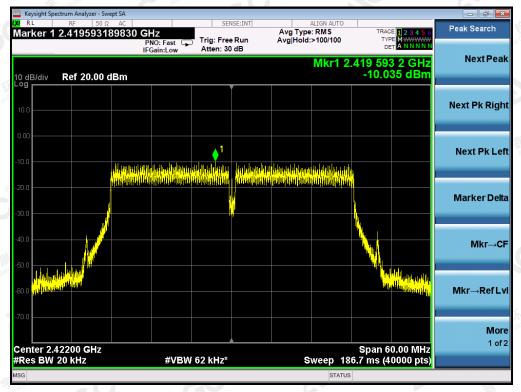
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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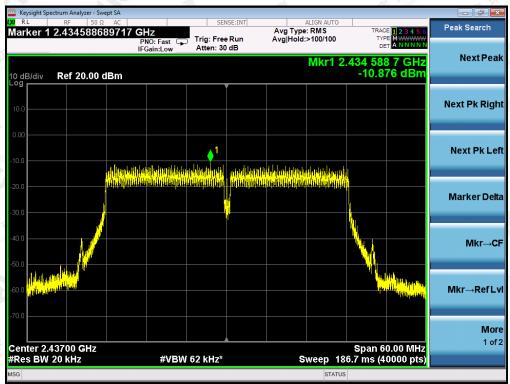
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802.11n 40 TEST RESULT

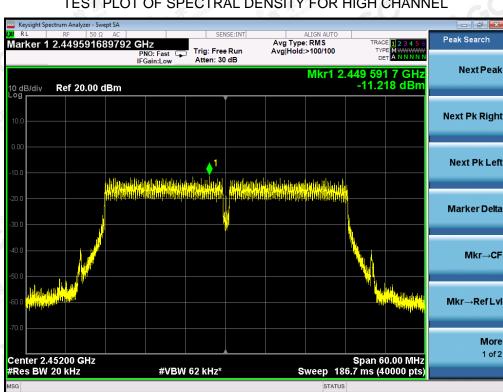
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

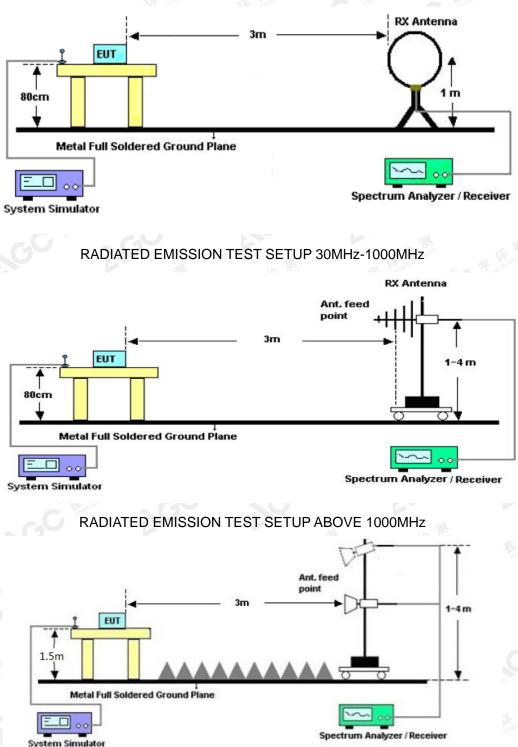
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11.2. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



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11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/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

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

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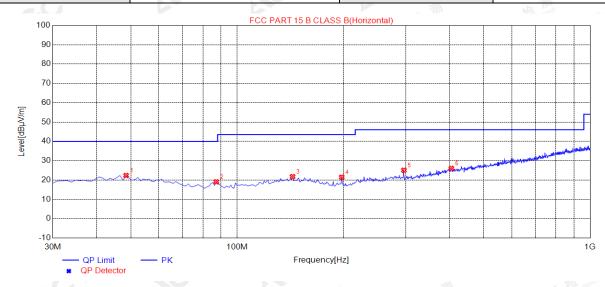


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RADIATED EMISSION BELOW 1GHZ

For adapter 1_S005AYU0500100

EUT	HD Outdoor WiFi Camera	Model Name	Y5925HCB
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal



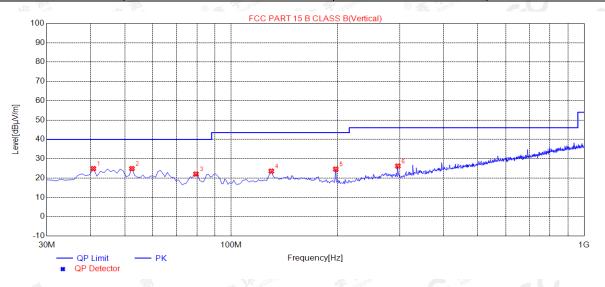
NO	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	22.37	14.71	40.00	17.63	200	160	Horizontal
2	87.2300	19.10	10.23	40.00	20.90	100	180	Horizontal
3	143.4900	21.77	14.88	43.50	21.73	150	220	Horizontal
4	197.8100	21.47	12.16	43.50	22.03	200	280	Horizontal
5	296.7500	25.07	15.96	46.00	20.93	100	300	Horizontal
6	404.4200	26.02	19.93	46.00	19.98	100	330	Horizontal

RESULT: PASS

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EUT	HD Outdoor WiFi Camera	Model Name	Y5925HCB
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical



C	NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
	1	40.6700	24.85	14.91	40.00	15.15	200	230	Vertical
	2	52.3100	24.87	14.49	40.00	15.13	100	80	Vertical
	3	79.4700	22.05	10.26	40.00	17.95	200	20	Vertical
10	4	129.9100	23.55	14.14	43.50	19.95	200	10	Vertical
	5	197.8100	24.59	12.16	43.50	18.91	100	50	Vertical
	6	296.7500	26.18	15.96	46.00	19.82	100	80	Vertical

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