

FCC Test Report

Report No.: AGC00008190403FE05

FCC ID	: TW5GD7006
APPLICATION PURPOSE	· Original Equipment
PRODUCT DESIGNATION	Four-Channel Wireless Digital Surverillance System
BRAND NAME	: N/A
MODEL NAME	: GD7006
CLIENT	: Shenzhen Gospell Smarthome Electronic Co., Ltd.
DATE OF ISSUE	: May 10, 2019
STANDARD(S) TEST PROCEDURE(S)	: FCC Part 15.247
REPORT 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		May 10, 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	Four-Channel Wireless Digital Surverillance System			
Brand Name	N/A			
Test Model	GD7006			
Date of test	Apr. 30, 2019 to May 10, 2019			
Deviation	None State Contraction Contraction			
Condition of Test Sample	Normal			
Test Result	Pass			

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

Draven Li(Li Ming Liang)

May 10, 2019

Reviewed By

Max Zhang

Max Zhang(Zhang Yi)

May 10, 2019

Approved By

Forrest Un

Forrest Lei(Lei Yonggang) Authorized Officer

May 10, 2019

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2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

The EUT is designed as "Four-Channel Wireless Digital Surverillance System". 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:15.32dBm; IEEE 802.11g:11.94dBm; IEEE 802.11n(20):10.72dBm; IEEE 802.11n(40):10.83dBm
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	11 Contraction of the second sec
Hardware Version	V172P1
Software Version	V1.0
Antenna Designation	External antenna(Use of reverse SMA connector)
Antenna Gain	5.0dBi
Power Supply	DC 5V by adapter

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
E To d Conner Canton Conner Co	CC **** 1 CC **	2412 MHZ
Street and Street	2	2417 MHZ
	A The area and a second and as second and a	2422 MHZ
E State Conversion	G ⁴	2427 MHZ
	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
The The The second	The stand of the s	2442 MHZ
A const Company 6 August on a Co	86	2447 MHZ
NGO NO	9	2452 MHZ
-11	10	2457 MHZ
The state comparison		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	s Modulation R N	R NBPSC	NCBPS		NDBPS		Data rate(Mbps) 800nsGI				
							20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1 55	52	108	26	54	6.5	13.5		
1	1 1 and	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 C	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		

Explanation	
Number of spatial streams	
Code rate	
Number of coded bits per single carrier	
Number of coded bits per symbol	
Number of data bits per symbol	
Guard interval	

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

This submittal(s) (test report) is intended for **FCC ID: TW5GD7006** 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.

The results spow(bit http://www.agc-gait.com.

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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, $Uc = \pm 3.9 \text{ dB}$
- 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:	
	t by 802.11b with Date rate (1/2/5.5/11) t by 802.11g with Date rate (6/9/12/18/24/36/48/54)
	by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)
	t 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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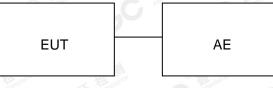
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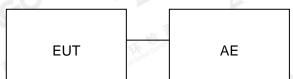
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :



Conducted Emission Configure :



5.2. EQUIPMENT USED IN EUT SYSTEM

	ltem	Equipment	Model No.	ID or Specification	Remark
10	1	Four-Channel Wireless Digital Surverillance System	GD7006	TW5GD7006	EUT
	2	Adapter	KT241050300US	100-240V, 50-60HZ, 0.8A 5V, 3A	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

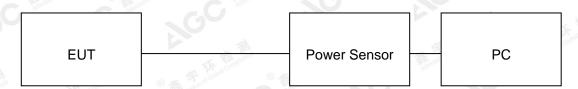
For average power test:

- 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	14.83	30	Pass
2.437	15.32	30	Pass
2.462	14.76	30	Pass

TEST ITEM	OUTPUT POWER	· · · · · · · · · · · · · · · · · · ·	and a star
TEST MODE	802.11g with data rate 6		

Frequency (GHz)	Average Power (dBm) (dBm) (dBm)		Pass or Fail
2.412	11.94	30	Pass
2.437	11.15	30	Pass
2.462	10.88	30	Pass

TEST ITEM	OUTPUT POWER		TA KA
TEST MODE	802.11n 20 with data rate 6.5	The the compliance	Contraction of Contract

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	10.72	30	Pass
2.437	10.61	30	Pass
2.462	10.35	30	Pass

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Frequency	Average Power (dBm)	Applicable Limits	Pass or Fail
Con Con Con Con	GU _ GU		the same
TEST MODE	802.11n 40 with data rate 13.5		SOU
TEST ITEM	OUTPUT POWER	C Frank Color	Hand Constant

(GHz)	(UBIII)	(dBm)	
2.422	10.83	30	Pass
2.437	9.16	30	Pass
2.452	9.47	30	Pass

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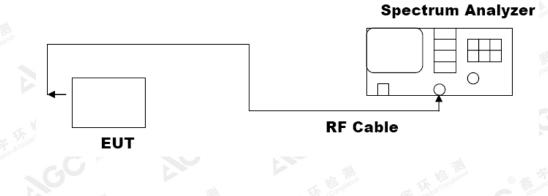
8.6 DB BANDWIDTH

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 Attendion of Gou	C Atestation of
TEST MODE	802.11b with data rate 11			

LIMITS AND MEASUREMENT RESULT

Applicable Limits	Applicable Limits			
	Test Data (MHz)	Criteria	
	Low Channel	10.07	PASS	
>500KHZ	Middle Channel	10.07	PASS	
C The station of Cloud C C	High Channel	10.07	PASS	

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

	LIMITS AND MEASU	REMENT RESULT		
	Applicable Limits			
Applicable Limits	Test Data (MHz)		Criteria	
NGO	Low Channel	16.52	PASS	
>500KHZ	Middle Channel	16.53	PASS	
C # Global C	High Channel	16.51	PASS	

TEST ITEM	6DB BANDWIDTH	ioan (Cartanol Carta	SC	S
TEST MODE	802.11n 20 with data rate 65	NOC I		Th

	LIMITS AND MEASU	IREMENT RESULT		
	Applicable Limits			
Applicable Limits	Test Data (MHz)		Criteria	
	Low Channel	17.64	PASS	
>500KHZ	Middle Channel	17.64	PASS	
Sound Controllant Control Control Control Control	High Channel	17.64	PASS	

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TEST ITEM	6DB BANDWIDTH	C These and a Conne control	The second constrained
TEST MODE	802.11n 40 with data rate 135	S S S	NOO
I GOT C ALL ALL ALL ALL ALL ALL ALL ALL ALL A	GU GU P		を言
	LIMITS AND MEASUREMENT R	ESULT	
	Applical	ble Limits	

Applicable Limits	Test Data (MHz)		Criteria	
CO Trans	Low Channel	36.35	PASS	
>500KHZ	Middle Channel	36.36	PASS	
	High Channel	36.35	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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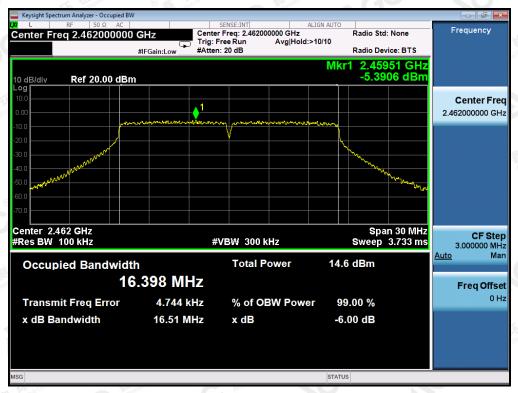


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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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

Frequency Center Freq: 2.412000000 GHz Trig: Free Run Avg|Hol #Atten: 20 dB Radio Std: None Center Freq 2.412000000 Avg|Hold:>10/10 #IFGain:Low Radio Device: BTS 2.40915 GHz -3.1893 dBm Mkr1 Ref 20.00 dBm 0 dB **Center Fred** 2.412000000 GHz Span 30 MHz Sweep 3.733 ms Center 2.412 GHz #Res BW 100 kHz CF Step 3.000000 MHz #VBW 300 kHz Ma Auto 16.5 dBm **Occupied Bandwidth Total Power** 17.576 MHz **Freq Offset** 0 Hz 26.938 kHz % of OBW Power 99.00 % Transmit Freq Error x dB Bandwidth 17.64 MHz x dB -6.00 dB

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



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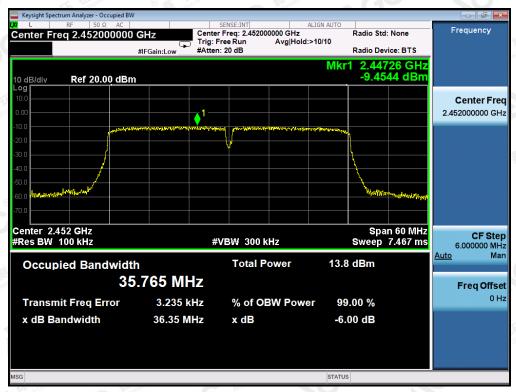


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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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.

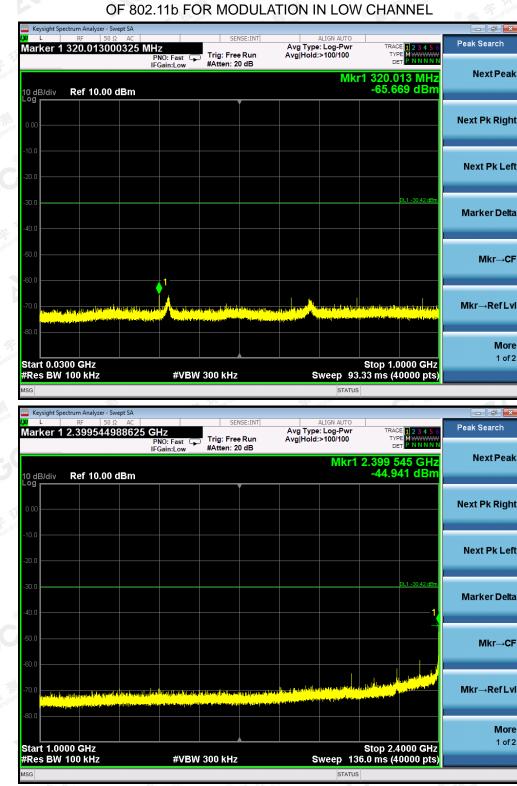
9.3. MEASUREMENT EQUIPMENT USEDJN

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

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

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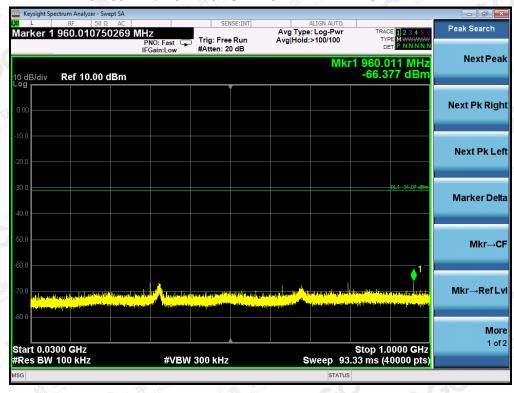
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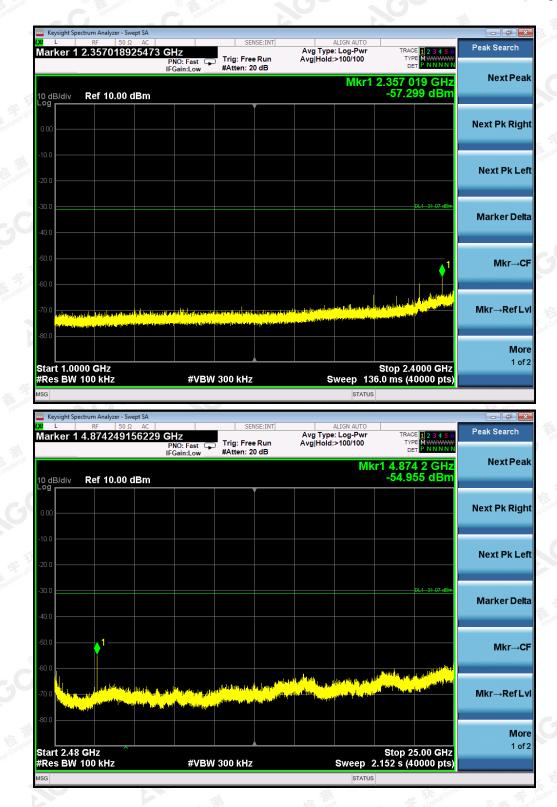
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



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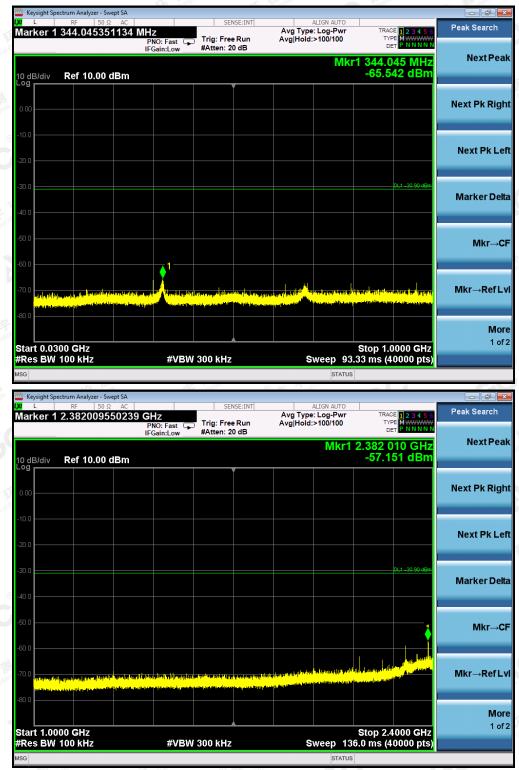


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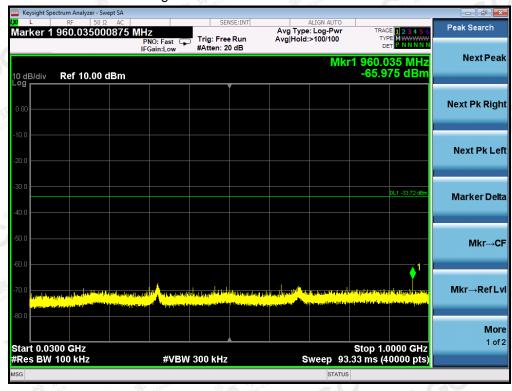
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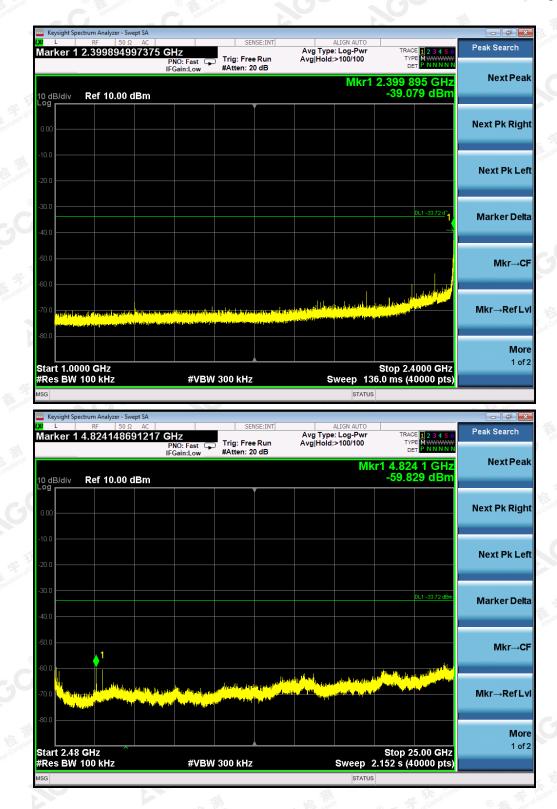
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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL



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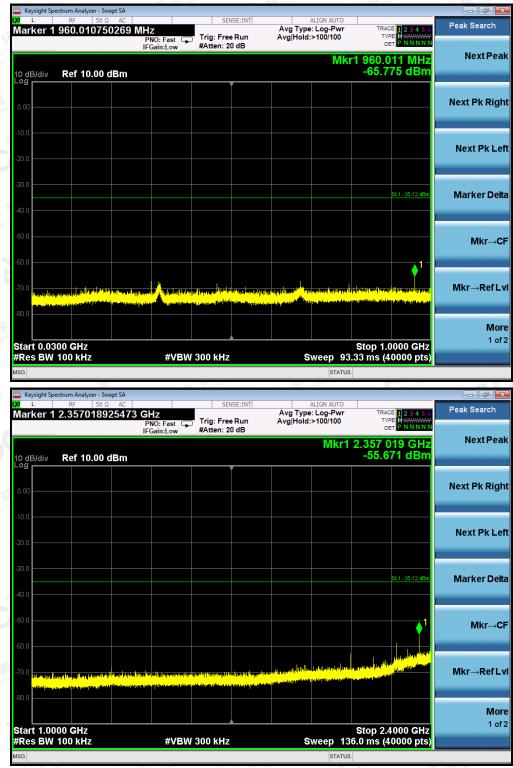
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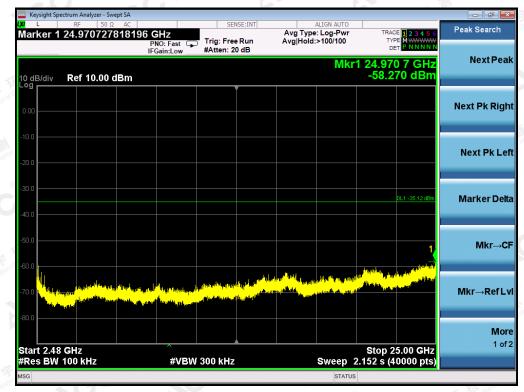
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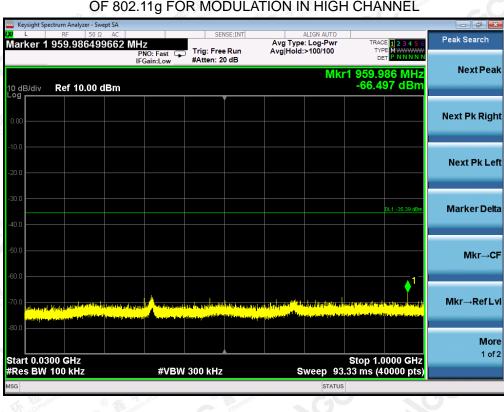
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN MIDDLE CHANNEL

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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE



OF 802.11g FOR MODULATION IN HIGH CHANNEL

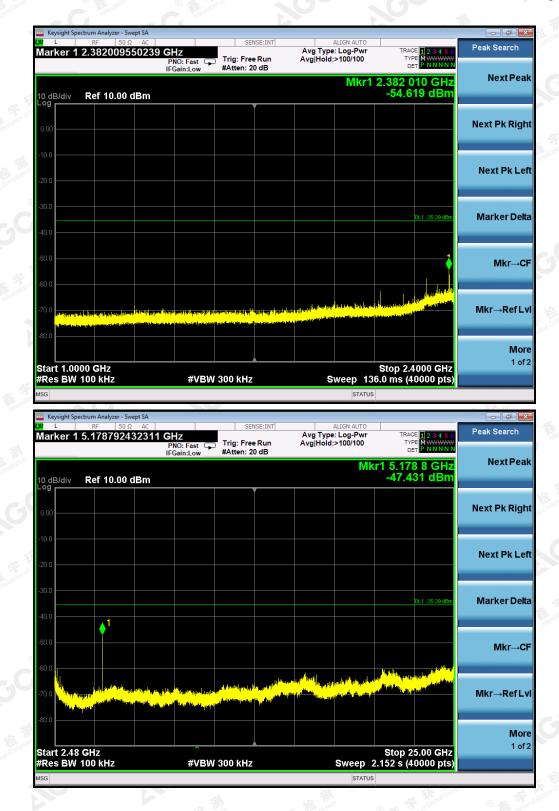
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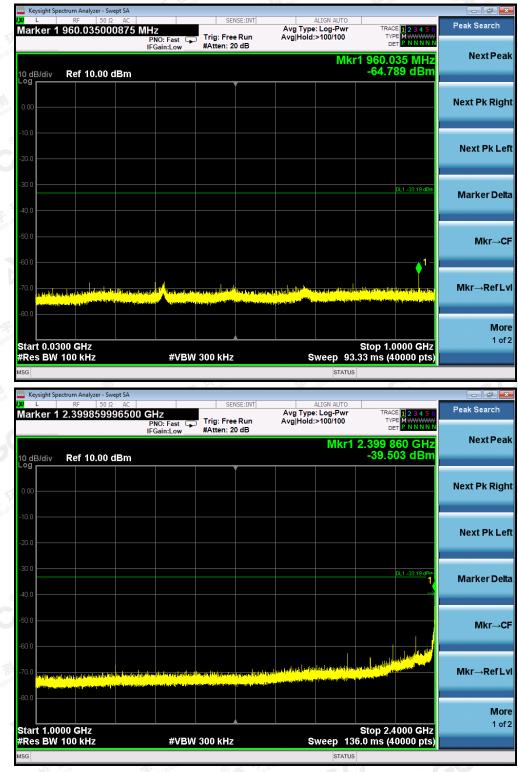
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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n20 FOR MODULATION IN LOW CHANNEL

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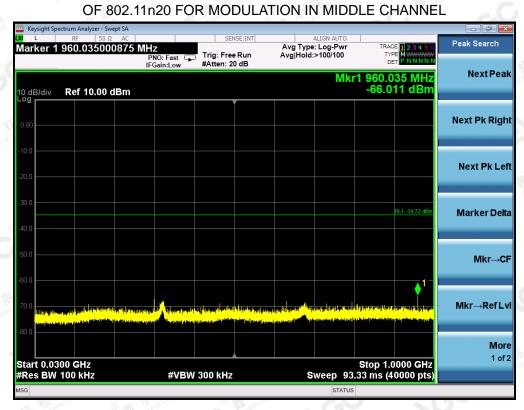
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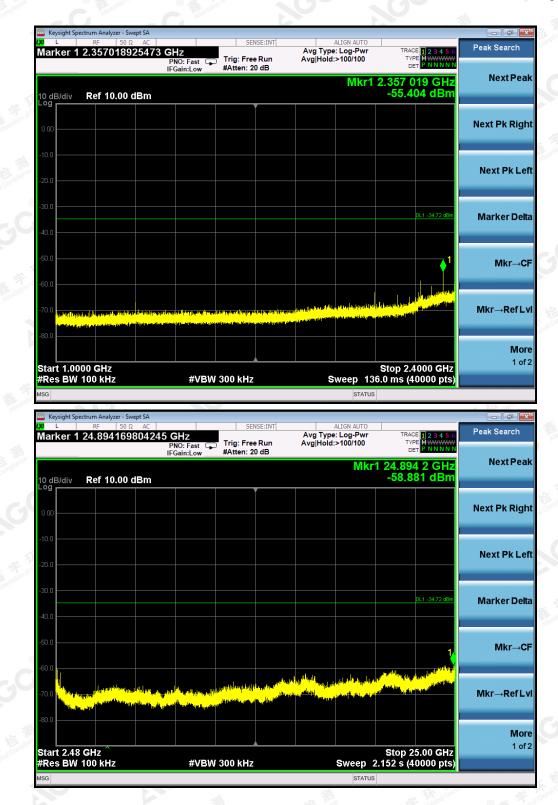
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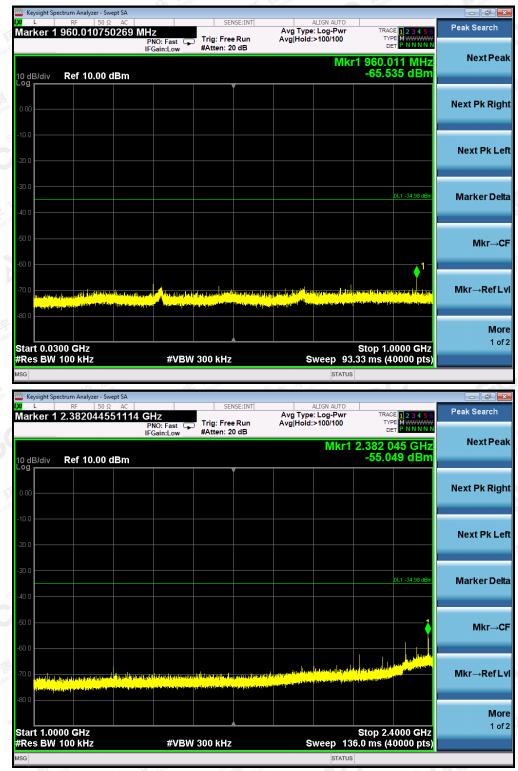
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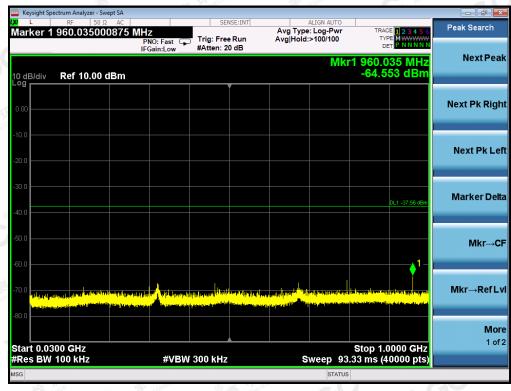
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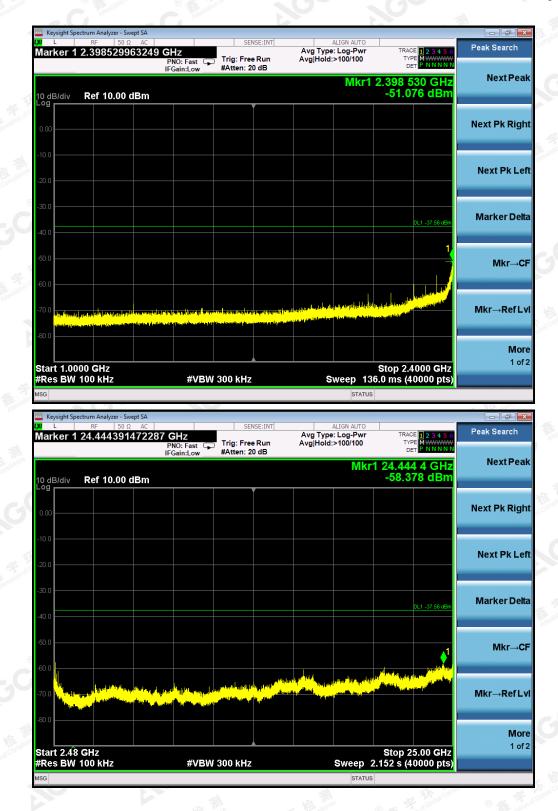
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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n40 FOR MODULATION IN LOW CHANNEL



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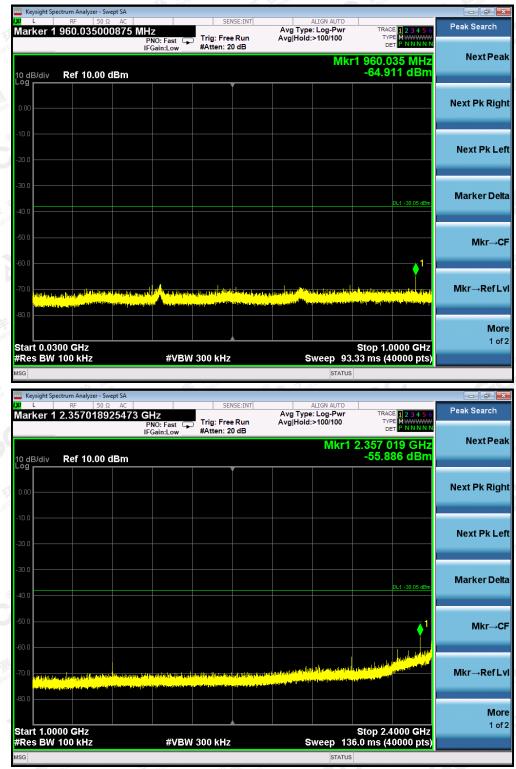


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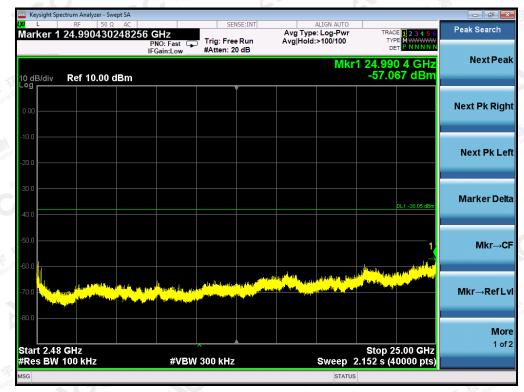
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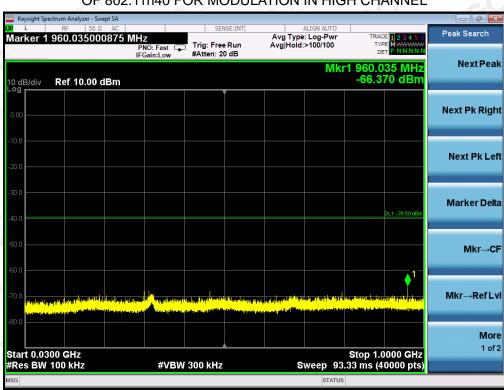
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN MIDDLE CHANNEL

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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE



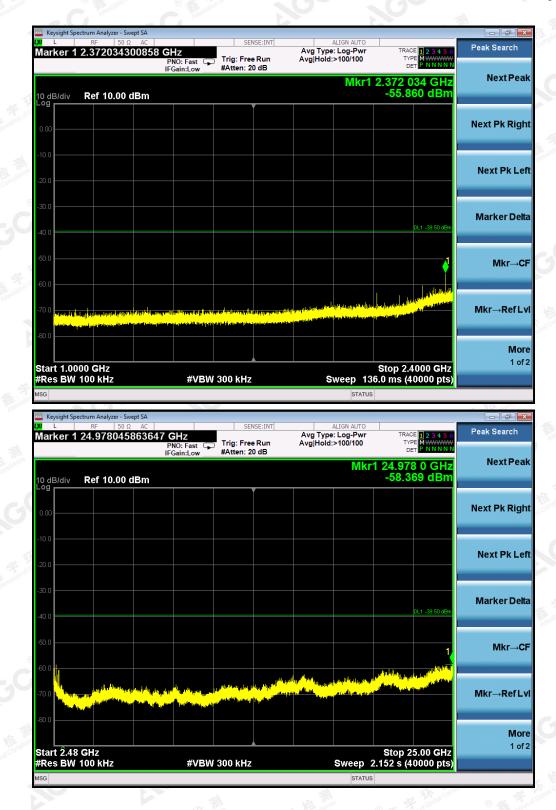
OF 802.11n40 FOR MODULATION IN HIGH CHANNEL

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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

TEST ITEM	POWER SPECTRAL DENSITY	The the average of the second	The Townson Comments
TEST MODE	802.11b with data rate 1	C Thestownolou	

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-6.337	8 6	Pass
Middle Channel	-7.094	8	Pass
High Channel	-6.864	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY		
TEST MODE	802.11g with data rate 6	The Company	C The second Co

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result	
Low Channel	-7.752	Standard 8 Standard	Pass	
Middle Channel	-9.075	8	Pass	
High Channel	-9.333	8	Pass	

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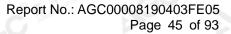
TEST ITEM	POWER SPECTRAL DENSITY	The The and the states	Compliance
TEST MODE	802.11n 20 with data rate 6.5	C Thereiner C Thereiner	-G
The second secon			
Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-8.282	8	Pass
Middle Channel	-9.078	8	Pass
High Channel	-9.421	8	Pass

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 . Solow	W the second

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result	
Low Channel	-10.395	8	Pass	
Middle Channel	-10.898	8	Pass	
High Channel	-12.333	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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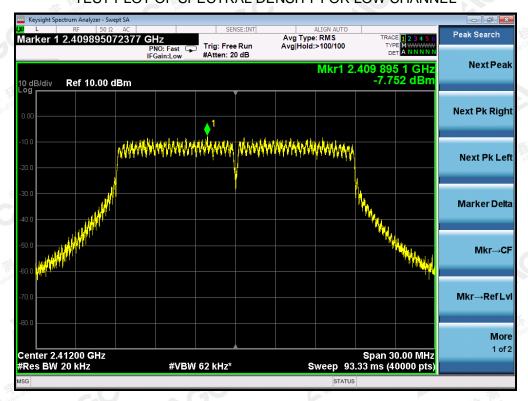


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

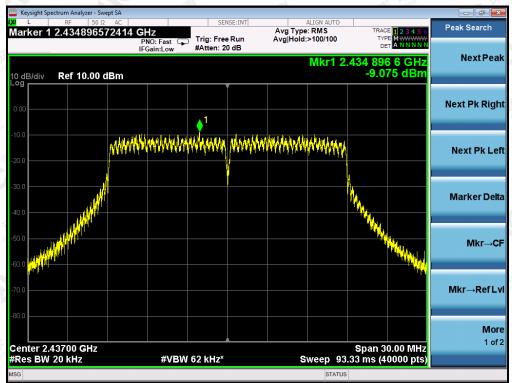
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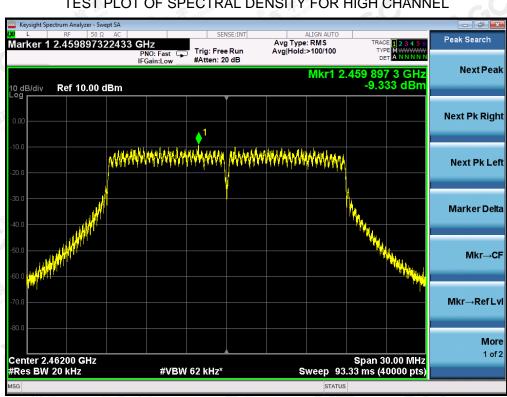
802.11g TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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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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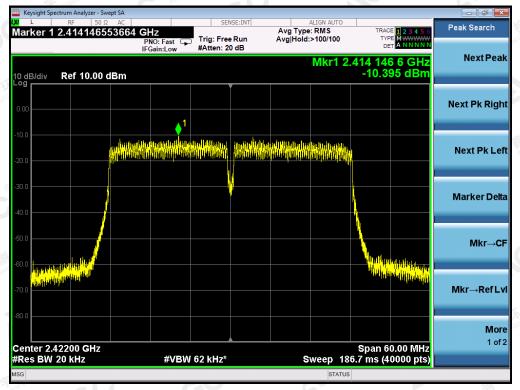
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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802.11n 40 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



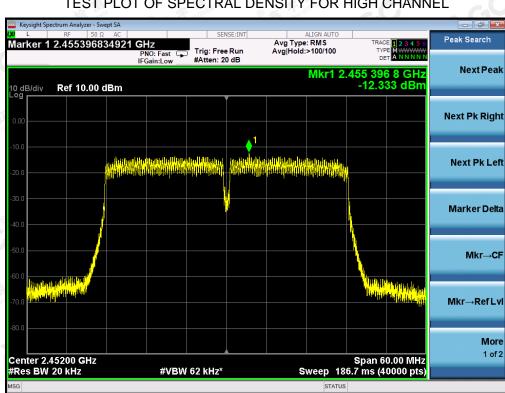
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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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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.

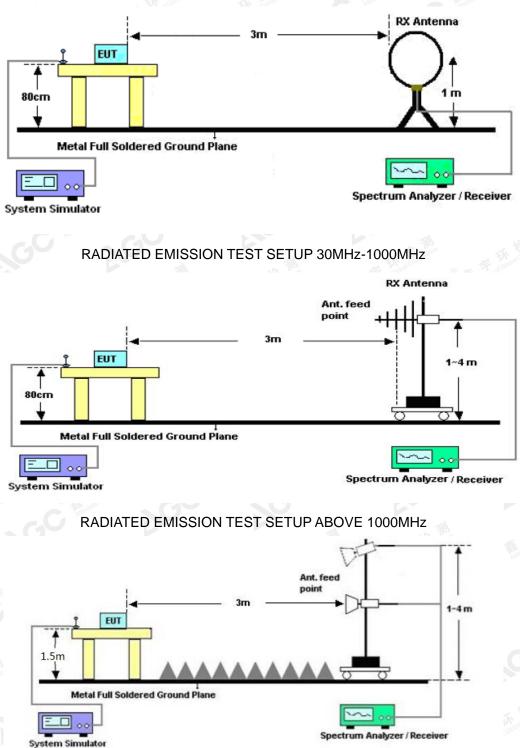
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11.2. TEST SETUP

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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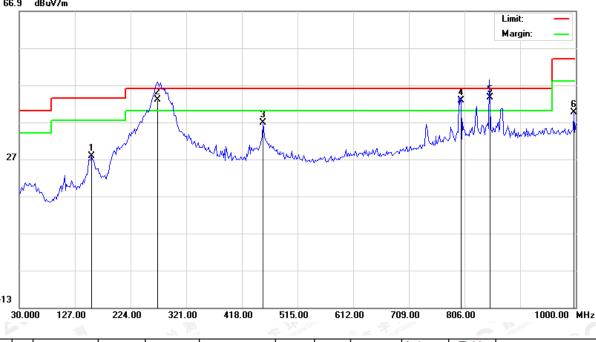




RADIATED EMISSION BELOW 1GHZ

EUT	Four-Channel Wireless Digital Surverillance System	Model Name	GD7006
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

66.9 dBu¥/m



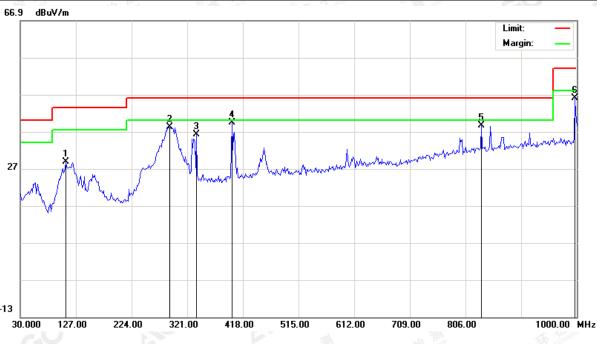
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		156.1000	8.69	19.20	27.89	43.50	-15.61	peak			
2	İ	270.8118	23.90	19.19	43.09	46.00	-2.91	QP			
3		455.1833	12.76	24.09	36.85	46.00	-9.15	peak			
4	İ	799.5333	12.37	30.40	42.77	46.00	-3.23	QP			
5	*	850.0000	12.58	31.05	43.63	46.00	-2.37	QP			
6		996.7667	7.15	32.53	39.68	54.00	-14.32	peak			

RESULT: PASS

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EUT	Four-Channel Wireless Digital Surverillance System	Model Name	GD7006
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	ſ	cm	degree	
1		109.2167	11.89	16.91	28.80	43.50	-14.70	peak			
2		290.2832	18.60	19.70	38.30	46.00	-7.70	peak			
3		337.1666	15.35	20.77	36.12	46.00	-9.88	peak			
4	*	398.6000	16.44	22.93	39.37	46.00	-6.63	peak			
5		833.4832	7.82	30.84	38.66	46.00	-7.34	peak			
6		996.7667	13.53	32.53	46.06	54.00	-7.94	peak			

RESULT: PASS

- Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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EUT	Four-Channel Wireless Digital Surverillance System	Model Name	GD7006
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

RADIATED EMISSION ABOVE 1GHZ

C/OF	22 ho					
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.071	44.61	3.72	48.33	74	-25.67	peak
4824.106	38.39	3.72	42.11	54	-11.89	AVG
7236.100	42.16	8.15	50.31	74	-23.69	peak
7236.053	36.72	8.15	44.87	54	-9.13	AVG
Au		9			ALL THE	The transferrer
emark:		1000	W.	2 31	obal Compto	F of Global Col.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	Four-Channel Wireless Digital Surverillance System	Model Name	GD7006
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Trees
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.061	43.64	3.72	47.36	74	-26.64	peak
4824.056	39.28	3.72 🔬	43	54	K11	AVG
7236.091	42.35	8.15	50.5	74	-23.5	peak
7236.059	37.46	8.15	45.61	54	-8.39	AVG
plia" B	Leader C	ttestan		G		
emark:				the mas	T. 12	ance ®

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Four-Channel Wireless Digital Surverillance System	Model Name	GD7006
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4874.079	47.37	3.75	51.12	74	-22.88	peak
4874.040	43.12	3.75	46.87	54	-7.13	AVG
7311.094	41.79	8.16	49.95	74	-24.05	peak
7311.075	37.38	8.16	45.54	54	-8.46	AVG
Attes.	Autosta	- C *			110-	litte:
					12. 19	KEL ollance

Factor = Antenna Factor + 0 able L .OSS re-amplifier

		a la contra cont	01 202 1310
EUT	Four-Channel Wireless Digital Surverillance System	Model Name	GD7006
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical

/alua Trac
/alue Type
peak
AVG
peak
AVG
© 154
C. M

Factor = Antenna Factor + Cable Pre-amplifier

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EUT	Four-Channel Wireless Digital Surverillance System	Model Name	GD7006
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal

eter Reading	Factor	Emission Level	Limits	Margin	
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
43.33	3.81	47.14	74	-26.86	peak
40.49	3.81	44.3	54	-9.7	AVG
40.91	8.19	49.1	74	-24.9	peak
36.78	8.19	44.97	54	-9.03	AVG
Attestat				Itte	illi:
					The Halpplance
	43.33 40.49 40.91	43.33 3.81 40.49 3.81 40.91 8.19	43.33 3.81 47.14 40.49 3.81 44.3 40.91 8.19 49.1	43.33 3.81 47.14 74 40.49 3.81 44.3 54 40.91 8.19 49.1 74	43.33 3.81 47.14 74 -26.86 40.49 3.81 44.3 54 -9.7 40.91 8.19 49.1 74 -24.9

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Four-Channel Wireless Digital Surverillance System	Model Name	GD7006
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical

Malus Tar	Margin	Limits	Emission Level	Factor	Meter Reading	Frequency
Value Type	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(dBµV)	(MHz)
peak	-25.8	74	48.2	3.81	44.39	4924.081
AVG	-10.25	54 🥢	43.75	3.81	39.94	4924.064
peak	-27.25	74	46.75	8.19	38.56	7386.041
AVG	-8.38	54	45.62	8.19	37.43	7386.062
			G N		testator At	Jou.
	1	litte-				
	the Country	The solution			G	Remark:

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level

2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

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12.3. TEST RESULT

EUT	Four-Channel Wireless Digital Surverillance System	Model Name	GD7006
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

PK



AV



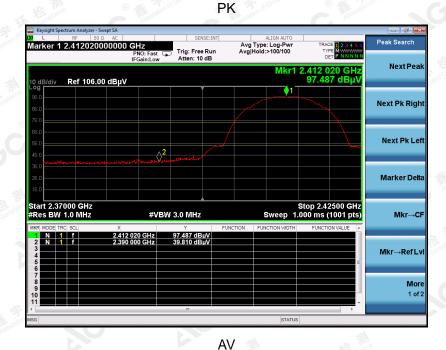
RESULT: PASS

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EUT	Four-Channel Wireless Digital Surverillance System	Model Name	GD7006
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical





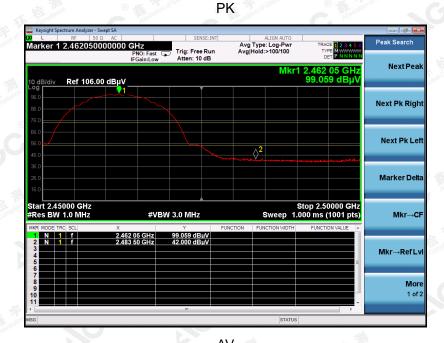
RESULT: PASS

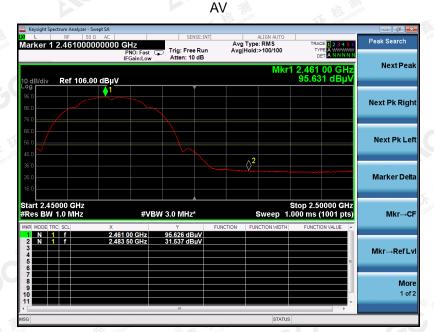
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EUT	Four-Channel Wireless Digital Surverillance System	Model Name	GD7006
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal





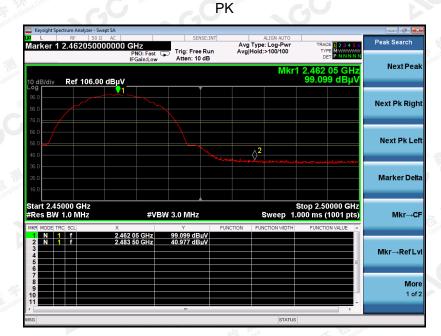
RESULT: PASS

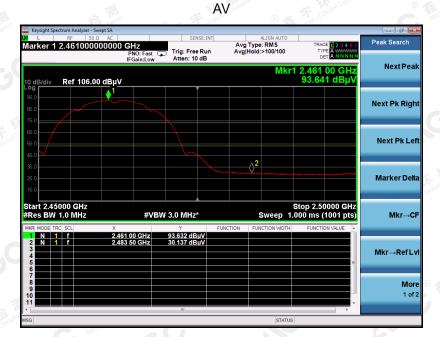
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EUT	Four-Channel Wireless Digital Surverillance System	Model Name	GD7006
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical





RESULT: PASS

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