

# **TEST REPORT**

# FCC PART 15 SUBPART C 15.247

# Test report On Behalf of Shenzhen Gospell Smarthome Electronic Co., Ltd. For Dual Mode Baby Monitor with 5" LCD Model No.: GD8202 FCC ID: TW5GD8202

 Prepared for :
 Shenzhen Gospell Smarthome Electronic Co., Ltd.

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 China

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Date of Test:Sep. 09, 2018 to Sep. 18, 2018Date of Report:Sep. 20, 2018Report Number:HK1809141088E



#### **TEST RESULT CERTIFICATION**

Applicant's name:	Shenzhen Gospell Smarthome Electronic Co., Ltd.
Address:	F/12 F518 Idea Land Baoyuan Road Baoan Central Area Shenzhen City P.R China
Manufacture's Name:	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 description	
Trade Mark:	N/A
Product name:	Dual Mode Baby Monitor with 5" LCD
Model and/or type reference:	GD8202
Standards	47 CFR FCC Part 15 Subpart C 15.247

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Date of Test	
Date (s) of performance of tests	Sep. 09, 2018 to Sep. 18, 2018
Date of Issue	Sep. 20, 2018
Test Result	Pass

**Testing Engineer** 

Gory Dian (Gary Qian) Edan Mu

**Technical Manager** 

:

(Eden Hu)

Authorized Signatory :

(Jason Zhou)



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# **1.SUMMARY**

# **1.1 TEST STANDARDS**

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

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

### **1.2 TEST DESCRIPTION**

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

NOTE: N/A stands for not applicable.



### **1.3 TEST FACILITY**

1.3.1 Address of the test laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.:1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 32/EN 55032 requirements.

### 1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

## IC Registration No.: 21210

The 3m alternate test site of Shenzhen HUAK Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 21210 on May 24, 2016.

## FCC Registration No.: CN1229

Test Firm Registration Number : 616276

# **1.4 STATEMENT OF THE MEASUREMENT UNCERTAINTY**

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen HUAK Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for HUAK laboratory is reported:

Test	Measurement Uncertainty	Notes
Transmitter power conducted	±0.57 dB	(1)
Transmitter power Radiated	±2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	±2.20 dB	(1)
Occupied Bandwidth	±0.01ppm	(1)
Radiated Emission 30~1000MHz	±4.10dB	(1)
Radiated Emission Above 1GHz	±4.32dB	(1)
Conducted Disturbance0.15~30MHz	±3.20dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95%

confidence level using a coverage factor of k=2.



# 2.GENERAL INFORMATION

# 2.1 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

# 2.2 GENERAL DESCRIPTION OF EUT

Product Name:	Dual Mode Baby Monitor with 5" LCD		
Model/Type reference:	GD8202		
Power supply:	DC5V or DC3.7V by Battery		
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)		
Supported modes	802.11 b/g/n20/n40		
Operation Frequency	2.412 GHz~2.462GHz		
Channel number:	11		
Antenna type:	Fixed Antenna		
Antenna gain:	2dBi		
Hardware Version:	GD8202KE_M02		
Software Version:	E_900.GD8202.010.350		

Note: For more details, refer to the user's manual of the EUT.

### 2.3 DESCRIPTION OF TEST MODES AND TEST FREQUENCY

Frequency Band	Channel Number	Frequency
	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
	11	2462 MHZ

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



NO.	TEST MODE DESCRIPTION			
1	Low channel TX			
2	Middle channel TX			
3	High channel TX			
4	Normal operating			
Note:	ote:			
Transm	ansmit by 802.11b with Date rate (1/2/5.5/11)			
Transm	ansmit by 802.11g with Date rate (6/9/12/18/24/36/48/54)			
Transm	Insmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)			
Transm	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.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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

This submittal(s) (test report) is intended to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

### 2.5 MODIFICATIONS

No modifications were implemented to meet testing criteria.

#### 2.6. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCI	BPS	NDI	BPS		ata Mbps) nsGl
muex					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

# 2.7 EQUIPMENT USED

Item	Equipment	Manufacturer	Model No.	Lab equipment No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Dec. 28, 2017	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 28, 2017	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 28, 2017	1 Year
4.	Horn Antenna	Schewarzbeck	BBHA 9170	HKE-090	Dec. 28, 2017	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2017	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 28, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 28, 2017	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 28, 2017	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 28, 2017	1 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Dec. 28, 2017	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Dec. 28, 2017	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 28, 2017	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	Dec. 28, 2017	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Dec. 28, 2017	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2017	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Dec. 28, 2017	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Dec. 28, 2017	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 28, 2017	3 Year

The calibration interval was one year



# 3. OUTPUT POWER

# **3.1. MEASUREMENT PROCEDURE**

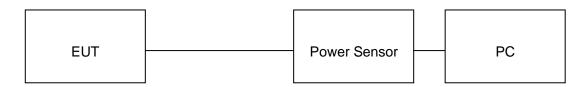
For average power test:

- 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.

# 3.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

# AVERAGE POWER SETUP





# 3.3. 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	14.60	30	Pass
2.437	13.98	30	Pass
2.462	13.65	30	Pass

TEST ITEM	OUTPUT POWER
TEST MODE	802.11g with data rate 6

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	12.54	30	Pass
2.437	12.13	30	Pass
2.462	13.36	30	Pass

TEST ITEM	OUTPUT POWER
TEST MODE	802.11n 20 with data rate 6.5

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	11.95	30	Pass
2.437	11.22	30	Pass
2.462	11.47	30	Pass



TEST ITEM	OUTPUT POWER
TEST MODE	802.11n 40 with data rate 13.5

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.422	10.59	30	Pass
2.437	10.62	30	Pass
2.452	10.05	30	Pass



# 4.6 DB BANDWIDTH

## 4.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator

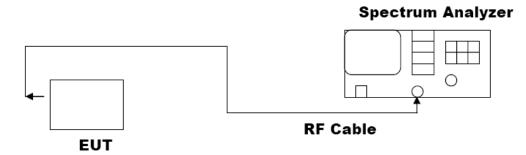
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.

3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\ge$ 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.

# 4.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)





# 4.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11b with data rate 11

LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Applicable Limits			
	Test Data (MHz)		Criteria	
	Low Channel	10.05	PASS	
>500KHZ	Middle Channel	10.04	PASS	
	High Channel	10.06	PASS	

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11g with data rate 54

	LIMITS AND MEAS	UREMENT RESULT	
Annlinghla Limita		Applicable Limits	
Applicable Limits	Test Da	Criteria	
	Low Channel	16.35	PASS
>500KHZ	Middle Channel	16.38	PASS
	High Channel	16.39	PASS

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11n 20 with data rate 65

	LIMITS AND MEAS	UREMENT RESULT		
Applicable Limite		Applicable Limits		
Applicable Limits	Test Data (MHz) Criteria			
	Low Channel	17.60	PASS	
>500KHZ	Middle Channel	17.59	PASS	
	High Channel	17.59	PASS	



TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11n 40 with data rate 135

	LIMITS AND MEAS	UREMENT RESULT		
Applicable Limite		Applicable Limits		
Applicable Limits	Test Data (MHz) Criter			
	Low Channel	35.15	PASS	
>500KHZ	Middle Channel	35.14	PASS	
	High Channel	35.37	PASS	



Keysight Spectrum Analyzer - Occupied I						
Center Freq 2.41200000	0 GHz Center Trig: F	SENSE:INT Freq: 2.412000000 GH ree Run Avg H : 30 dB	ALIGN AUTO Iz Iold:>10/10	Radio Std: Radio Devi		Frequency
10 dB/div Ref 15.00 dB	m		Mkr	2.412 5.594	51 GHz 19 dBm	
Log 5.00 -5.00 -15.0	and manufacture	1 Manhanna	Muy			Center Fre 2.412000000 G⊦
-25.0				My have	had do that	
-55.0						
Center 2.412 GHz #Res BW 100 kHz	#	VBW 300 kHz		Spar Sweep 3	n 30 MHz 3.733 ms	CF Ste 3.000000 MH
Occupied Bandwid	<sup>th</sup> 4.928 MHz	Total Power	22.0	dBm		<u>Auto</u> Ma Freq Offse
Transmit Freq Error	-2.908 kHz	% of OBW Po		.00 %		0 H
x dB Bandwidth	10.05 MHz	x dB	-6.0	00 dB		
MSG			STATUS			

### 802.11b TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



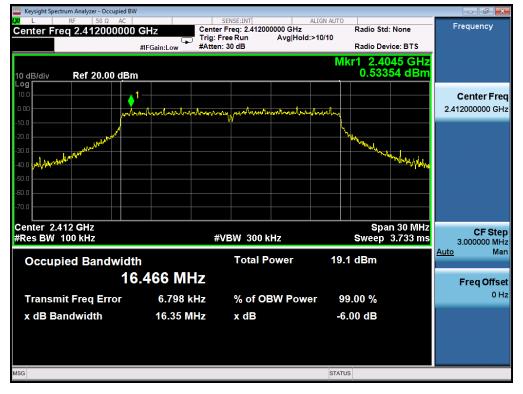




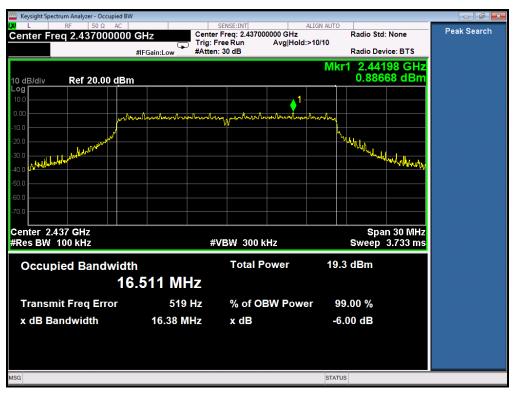
#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

## 802.11g TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL







#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



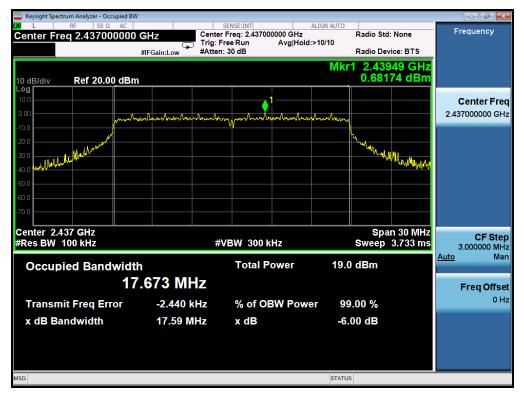


# 802.11n (20) TEST RESULT

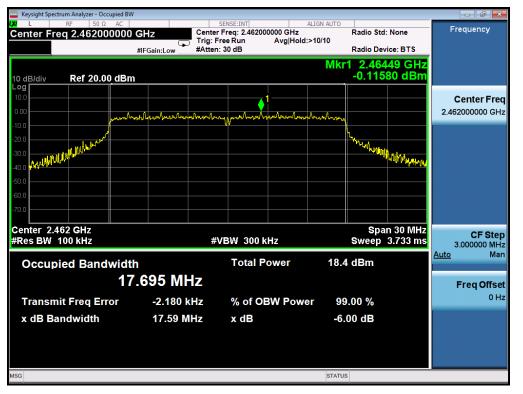
# TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL







### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

# 802.11n (40) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

🔤 Keysight Spectrum Analyzer - Occupied BW 🚽				
Center Freq 2.422000000 G		Freq: 2.422000000 GHz ee Run Avg Hold::	Radio Device: BT	
10 dB/div Ref 10.00 dBm			Mkr1 2.41948 0 -3.1557 d	
Log 0.00 -10.0	1 Bartuninskerstrutherheren	n enerthertrotecturterandre	heritententent	Center Freq 2.422000000 GHz
-20.0 -30.0 -40.0			house and a second	
-50.0 //ug//u///////////////////////////////				
-70.0				
Center 2.422 GHz #Res BW 100 kHz	#V	/BW 300 kHz	Span 60 I Sweep 7.467	MHz CF Step 6.000000 MHz Auto Man
Occupied Bandwidth	776 MHz	Total Power	18.1 dBm	
Transmit Freq Error	15.485 kHz	% of OBW Powe	r 99.00 %	Freq Offset 0 Hz
x dB Bandwidth	35.15 MHz	x dB	-6.00 dB	
MSG			STATUS	





#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

Keysight Spectrum Analyzer - Occupied BW           Δ         L         RF         50 Ω         AC           Center Freq 2.452000000	S		d:>10/10	Radio Std: Radio Devi		Frequency
10 dB/div Ref 10.00 dBm	In Gameow			2.456		
0.00 -10.0	Straffortuner tertradury of the second se	n y prenchiseturi notornteerdennum	hydronhanlenhanle			Center Freq 2.452000000 GHz
-20.0 -30.0 -40.0				Martine Comment	huyuruluWhy	
-50.0						
Center 2.452 GHz #Res BW 100 kHz	#V	'BW 300 kHz		Spar Sweep	n 60 MHz 7.467 ms	CF Step
Occupied Bandwidt	h	Total Power	18.1			6.000000 MHz <u>Auto</u> Man
ວວ Transmit Freq Error	7.846 kHz	% of OBW Pow	ver 99.	00 %		Freq Offset 0 Hz
x dB Bandwidth	35.37 MHz	x dB	-6.0	0 dB		
MSG			STATUS			



# 5. CONDUCTED SPURIOUS EMISSION

## **5.1. 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.

## 5.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 4.2.

### 5.3. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEA	SUREMENT RESULT	
Applieghte Limite	Measurement Re	sult
Applicable Limits	Test Data	Criteria
In any 100 KHz Bandwidth Outside the	At least -30dBc than the limit	
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS
intentional radiator is operating, the radio frequency	Channel	
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

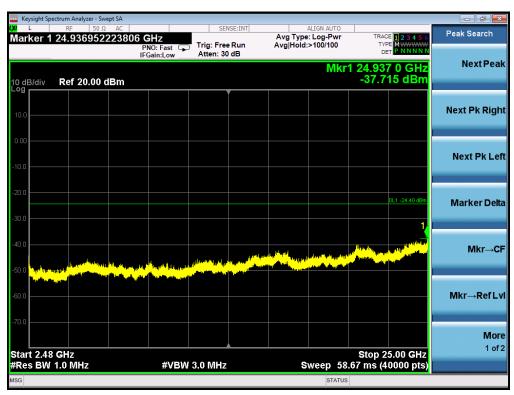


	ectrum Analyzer - Sw									
Marker 1	RF 50 Ω 231.91054		7	SEN	SE:INT	Avg Type	ALIGN AUTO e: Log-Pwr	TRAC	E 1 2 3 4 5 6	Peak Search
maintoi	20110100	Р	NO: Fast 🖵 Gain:Low	Trig: Free Atten: 30		Avg Hold	:>100/100	TYP	DE 123456 PE MWWWW ET P NNNNN	
			Gameow				Mki	1 231.9	11 MHz	Next Peak
10 dB/div Log	Ref 20.00	dBm						-58.9	62 dBm	
				Ĭ						
10.0										Next Pk Right
10.0										
0.00										
										Next Pk Left
-10.0										
-20.0										
-20.0									DL1 -24.40 dBm	Marker Delta
-30.0										
-40.0										Mkr→CF
-50.0										
-30.0		<mark>⊾</mark> 1								
-60.0	La segura da cara da la segura da la		ية المحمد بوابين	dinan kasurakan d	المرد المعاليات والا		un attantantantan			Mkr→RefLv
a strait and	and the second secon			a salawa ka salawa ka sa	and the second	- n-side in the state of the st	and the second second	ana a la si an albia	a itati ita ina da da sa dar	
-70.0										
										More 1 of 2
Start 0.03	00 GHz		40 (514			_		Stop 1.0	0000 GHz	1012
#Res BW	100 KHZ		#vB₩	/ 300 kHz		S	status		uuuu pts)	
MSG							31/103			
Keysight Sp	ectrum Analyzer - Sw									
				CEN	CE ANT					
Marker 1	RF 50 Ω	2 AC 99125 GI			SE:INT		ALIGN AUTO	TRAC	CE 123456	Peak Search
Marker 1	RF 50 Ω	2 AC 999125 GI P	HZ NO:Fast ⊂		Run			TRAC TYP DE	CE 123456 PE M WWWW ET P NNNNN	Peak Search
Marker 1	RF 50 Ω	2 AC 999125 GI P	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9	65 GHz	
	RF 50 Ω	2 AC 199125 GI P IF	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9		Peak Search
	RF 50 Ω 2.3999649	2 AC 199125 GI P IF	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9	65 GHz	Peak Search Next Peak
	RF 50 Ω 2.3999649	2 AC 199125 GI P IF	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9	65 GHz	Peak Search Next Peak
10 dB/div _og	RF 50 Ω 2.3999649	2 AC 199125 GI P IF	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9	65 GHz	Peak Search Next Peak
10 dB/div	RF 50 Ω 2.3999649	2 AC 199125 GI P IF	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9	65 GHz	Peak Search Next Peak Next Pk Righ
10 dB/div - 0g 10.0	RF 50 Ω 2.3999649	2 AC 199125 GI P IF	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9	65 GHz	Peak Search Next Peak Next Pk Righ
10 dB/div Log	RF 50 Ω 2.3999649	2 AC 199125 GI P IF	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9	65 GHz	Peak Search Next Peak Next Pk Right
10 dB/div og 10.0	RF 50 Ω 2.3999649	2 AC 199125 GI P IF	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9	65 GHz 44 dBm	Peak Search Next Peak Next Pk Righ Next Pk Lef
10 dB/div 10.0	RF 50 Ω 2.3999649	2 AC 199125 GI P IF	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9	65 GHz	Peak Search Next Peak Next Pk Right Next Pk Left
10.0 <b>B/div</b> 10.0	RF 50 Ω 2.3999649	2 AC 199125 GI P IF	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9	65 GHz 44 dBm	Peak Search Next Peak Next Pk Right Next Pk Left
10 dB/div - og 10.0	RF 50 Ω 2.3999649	2 AC 199125 GI P IF	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9	65 GHz 44 dBm	Peak Search Next Peal Next Pk Righ Next Pk Lef Marker Delta
10 dB/div 10.0	RF 50 Ω 2.3999649	2 AC 199125 GI P IF	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9	65 GHz 44 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
10 dB/div - og 10.0	RF 50 Ω 2.3999649	2 AC 199125 GI P IF	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9	65 GHz 44 dBm	Peak Search Next Peal Next Pk Righ Next Pk Lef Marker Delta
10 dB/div 10.0	RF 50 Ω 2.3999649	2 AC 199125 GI P IF	NO: Fast 🗔	Trig: Free	Run		e: Log-Pwr :>100/100	2.399 9	65 GHz 44 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
10 dB/div - 0 0 10 0 - 10 0 - 10 0 - 20 0 - 20 0 - 30 0 - 40 0 - 50 0 	RF 50 Ω 2.3999649	2 AC   199125 GI P IF dBm	NO: Fast Gain:Low	Trig: Free Atten: 30	Run dB	Avg Hold	e: Log-Pwr :>100/100	2.399 9	65 GHz 44 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
10 dB/div 10.0	Ref 20.00 o	2 AC   199125 GI P IF dBm	NO: Fast Gain:Low	Trig: Free Atten: 30	Run dB	Avg Hold	e: Log-Pwr :>100/100	2.399 9	65 GHz 44 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
10 gB/div 10 0 10 0 -10 0 -20 0 -30 0 -40 0 -50 0	Ref 20.00 o	2 AC   199125 GI P IF dBm	NO: Fast Gain:Low	Trig: Free Atten: 30	Run dB	Avg Hold	e: Log-Pwr :>100/100	2.399 9	65 GHz 44 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
10 dB/div - 0 0 10 0 - 0 00 - 0 00 - 0 00 - 0 0 - 0	Ref 20.00 (	2 AC   199125 GI P IF dBm	NO: Fast Gain:Low	Trig: Free Atten: 30	Run dB	Avg Hold	e: Log-Pwr :>100/100	2.399 9 -34.1	DL1 -24.40 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→Ref Lv More
10.0 B/div 10.0	Ref 20.00 (	2 AC   199125 GI P IF dBm	NO: Fast Gain:Low	Trig: Free Atten: 30	Run dB		e: Log-Pwr :>100/100	2.399 9 -34.1	DL1 -24.40 dBm	Peak Search

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

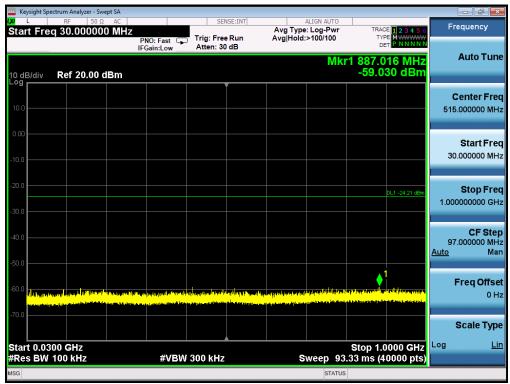
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## TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL





							ctrum Analyzer - S	Keysight Spe
Peak Search	TRACE 1 2 3 4 5 6	ALIGN AUTO e: Log-Pwr i:>100/100		SENSE:INT		987600 G	RF 50	arker 1
NextPe			,al.	tten: 30 dB	NO: Fast 😱 Gain:Low			
Nextre	2.359 504 GHz -53.678 dBm	Mkr1 2				dBm	Ref 20.00	dB/div
				Ĭ				
Next Pk Rig								
								00
Next Pk L								
								1.0
Marker De	DL1 -24.21 dBm							.0
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Mkr→								.0
	1							.0
Mkr→Refl	analahika darihi <mark>bab</mark>	a and the test states of the	ty all and all limbs		a . Tala and in the state of a state of a	in the line of the line of the	a a day in a star and marked	1.0
		ne santanahing si Utifi santa si ji	al de la contra président	<mark>et july all one de la ally seus main</mark>	ortholy in pice biometer	an the second sector is and	and the second state of th	
Mo								
Мс 1 с	Stop 2.4000 GHz	S		<b>A</b>				art 1.00
	Stop 2.4000 GHz 5.0 ms (40000 pts)	Sweep 136.0		0 kHz	#VBW		00 GHz 100 kHz	Res BW
1 c	Stop 2.4000 GHz 5.0 ms (40000 pts)	Sweep 136.0 status		0 kHz	#VBW			
1 c	ô.0 ms (40000 pts)	Sweep 136.0 Status Align auto		0 KHz		Ω AC	100 kHz ctrum Analyzer - S RF 50 :	Keysight Spe
1 c	5.0 ms (40000 pts)	Sweep 136.0	Avg Avg	SENSE:INT	GHz NO: Fast 😱	Ω AC 3423086	100 KHz ctrum Analyzer - S	Keysight Spe
1 c	5.0 ms (40000 pts) TRACE 1 2 3 4 5 6 TYPE M 23 4 5 6 DET P. NN NN N 24.981 4 GHz	Sweep 136. status Align Auto e: Log-Pwr d:>100/100	Avg Avg	SENSE:INT	GHz	Ω AC 3423086	100 kHz ctrum Analyzer - S RF 50 :	Keysight Spe
1 c بر کار کار Peak Search	5.0 ms (40000 pts) TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNNN	Sweep 136. status Align Auto e: Log-Pwr d:>100/100	Avg Avg F	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz ctrum Analyzer - S RF 50 :	Keysight Spe L
1 c	5.0 ms (40000 pts) TRACE 1 2 3 4 5 6 TYPE M 23 4 5 6 DET P. NN NN N 24.981 4 GHz	Sweep 136. status Align Auto e: Log-Pwr d:>100/100	Avg Avg I	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz ktrum Analyzer - S RF 50 24.981423	Reysight Spe L   arker 1 dB/div
1 c بر کار کار Peak Search	5.0 ms (40000 pts) TRACE 1 2 3 4 5 6 TYPE M 23 4 5 6 DET P. NN NN N 24.981 4 GHz	Sweep 136. status Align Auto e: Log-Pwr d:>100/100	Avg Avg	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz ktrum Analyzer - S RF 50 24.981423	Keysight Spe L arker 1 dB/div
۱ م Peak Search Next Pe Next Pk Rig	5.0 ms (40000 pts) TRACE 1 2 3 4 5 6 TYPE M 23 4 5 6 DET P. NN NN N 24.981 4 GHz	Sweep 136. status Align Auto e: Log-Pwr d:>100/100	Avg Avg	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz ktrum Analyzer - S RF 50 24.981423	Keysight Spe L arker 1 dB/div
1 c	5.0 ms (40000 pts) TRACE 1 2 3 4 5 6 TYPE M 23 4 5 6 DET P. NN NN N 24.981 4 GHz	Sweep 136. status Align Auto e: Log-Pwr d:>100/100	Avg Avg	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz ktrum Analyzer - S RF 50 24.981423	Keysight Spec
۱ م Peak Search Next Pe Next Pk Rig	5.0 ms (40000 pts) TRACE 1 2 3 4 5 6 TYPE M 23 4 5 6 DET P. NN NN N 24.981 4 GHz	Sweep 136. status Align Auto e: Log-Pwr d:>100/100	Avg Avg	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz ktrum Analyzer - S RF 50 24.981423	kes BW Keysight Spectro arker 1 dB/div g g 0.0 0.0 0.0 0.0
۱ م Peak Search Next Pe Next Pk Rig	5.0 ms (40000 pts) TRACE 1 2 3 4 5 6 TYPE M 23 4 5 6 DET P. NN NN N 24.981 4 GHz	Sweep 136. status Align Auto e: Log-Pwr d:>100/100	Avg	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz ktrum Analyzer - S RF 50 24.981423	dB/div g dB/div g dB/div
1 o Peak Search Next Pe Next Pk Rig	5.0 ms (40000 pts)	Sweep 136. status Align Auto e: Log-Pwr d:>100/100	Avg	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz ktrum Analyzer - S RF 50 24.981423	kes BW Keysight Spe L arker 1
1 o Peak Search Next Pe Next Pk Rig	5.0 ms (40000 pts)	Sweep 136.	Avgi	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz ktrum Analyzer - S RF 50 24.981423	Keysight Spe arker 1 arker 1
1 d Peak Search Next Pe Next Pk Rig Next Pk L Marker De	5.0 ms (40000 pts)	Sweep 136.	Avg Avg	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz ktrum Analyzer - S RF 50 24.981423	Keysight Spe arker 1 dB/div g 0 0 0 0
1 c	5.0 ms (40000 pts)	Sweep 136.           Status           ALIGN AUTO           e: Log-Pwr           :>100/100	Avgit	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz ktrum Analyzer - S RF 50 24.981423	Keysight Spe arker 1 dB/div g dB/div g dB/div g dB/div g d d div g d d d d d d d d d d d d d d d d d d
1 d Peak Search Next Pe Next Pk Rig Next Pk L Marker De	5.0 ms (40000 pts)	Sweep 136.           Status           ALIGN AUTO           e: Log-Pwr           :>100/100	Avgit	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz ktrum Analyzer - S RF 50 24.981423	kes BW Keysight Spectro arker 1 dB/div g g 0.0 0.0 0.0 0.0
1 c Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→Ref I	5.0 ms (40000 pts)	Sweep 136.           Status           ALIGN AUTO           e: Log-Pwr           :>100/100	Avgit	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz ktrum Analyzer - S RF 50 24.981423	Keysight Spe arker 1 dB/div g dB/div g dB/div g dB/div g d d div g d d d d d d d d d d d d d d d d d d
1 o Peak Search Next Pe Next Pk Rig Next Pk Rig Marker De Mkr→Ref I	5.0 ms (40000 pts)	Sweep 136.	Avgit	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz	Keysight Spe arker 1 arker 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 c Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→Ref I	5.0 ms (40000 pts)	Sweep 136.	Avgit	SENSE:INT	GHz NO: Fast 😱	Ω AC 3 <b>423086</b> F IF	100 kHz	Reysight Spe arker 1 arker 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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Keysight Spe	RF 50 Ω			SE	NSE:INT		ALIGN AUTO			Peak Search
larker 1	203.82834		Z PNO: Fast ⊂ FGain:Low	Trig: Free Atten: 30		Avg Type Avg Hold	e: Log-Pwr :>100/100	TYI	CE 1 2 3 4 5 6 PE MWWWW ET P NNNNN	
	Def 20.00 /	d D no					Mkr	1 203.8	28 MHz 02 dBm	NextPea
0 dB/div	Ref 20.00 c				Ţ					
10.0										Next Pk Rig
3.00										
										Next Pk Le
10.0										
20.0									DL1 -24.23 dBm	Marker De
.0.0										
40.0										
										Mkr→C
50.0		 								
60.0 <mark>A Normany</mark>		lata ng sa <mark>P</mark> i	ldhalles, a hailtean bai	Notice de la factura de la	a and a state of a sta	un al a la support				Mkr→RefL
70.0	and the product of the local data	a Balini (Jacin Jaki ja	a a a a a a a a a a a a a a a a a a a							
										Mo
					<u> </u>					1 0
tart 0.03 Res BW	00 GHz 100 kHz		#VBV	V 300 kHz		s	weep 93.	Stop 1.0 33 ms (4	0000 GHz 0000 pts)	1 o
start 0.03 Res BW	00 GHz 100 kHz		#VBV	V 300 kHz		S	weep 93.	Stop 1.0 33 ms (4	0000 GHz 0000 pts)	1 of
Res BW	100 kHz		#VBV				STATUS	Stop 1.( 33 ms (4	0000 GHz 0000 pts)	1 of
Res BW SG Keysight Spe	100 kHz	AC 13240 G	) iHz	) Trig: Fre	NSE:INT	Avg Type		33 ms (4	0000 pts)	
Res BW 5G Keysight Spe	100 kHz ctrum Analyzer - Sw RF 50 Ω	AC 13240 G		SE	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	33 ms (4	CE 123456 PE MWWWW FT P NN NN 530 GHz	Peak Search
Res BW	100 kHz ctrum Analyzer - Sw RF 50 Ω	AC 13240 G	Hz PNO: Fast	) Trig: Fre	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	33 ms (4	0000 pts)	Peak Search
Res BW Keysight Spe L larker 1 0 dB/div	100 kHz setrum Analyzer - Sw RF 50 Ω 2.3845296	AC 13240 G	Hz PNO: Fast	) Trig: Fre	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	33 ms (4	CE 123456 PE MWWWW FT P NN NN 530 GHz	Peak Search Next Pea
Res BW Keysight Spe L larker 1 0 dB/div	100 kHz setrum Analyzer - Sw RF 50 Ω 2.3845296	AC 13240 G	Hz PNO: Fast	) Trig: Fre	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	33 ms (4	CE 123456 PE MWWWW FT P NN NN 530 GHz	Peak Search Next Pea
Res BW ac keysight Spe L larker 1 0 dB/div 9 0	100 kHz setrum Analyzer - Sw RF 50 Ω 2.3845296	AC 13240 G	Hz PNO: Fast	) Trig: Fre	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	33 ms (4	CE 123456 PE MWWWW FT P NN NN 530 GHz	Peak Search Next Pea Next Pk Rig
Res BW sg keysight Specific larker 1 0 dB/div og 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz setrum Analyzer - Sw RF 50 Ω 2.3845296	AC 13240 G	Hz PNO: Fast	) Trig: Fre	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	33 ms (4	CE 123456 PE MWWWW FT P NN NN 530 GHz	Peak Search Next Pea Next Pk Rig
Res BW ag keysight Specific larker 1 od B/div og 0.00 0.00	100 kHz setrum Analyzer - Sw RF 50 Ω 2.3845296	AC 13240 G	Hz PNO: Fast	) Trig: Fre	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	33 ms (4	00000 pts) 1 2 3 4 5 6 E M M M M M 30 GHz 15 dBm	Peak Search Next Pea Next Pk Rig
Res BW G Keysight Spectro L C C C C C C C C C	100 kHz setrum Analyzer - Sw RF 50 Ω 2.3845296	AC 13240 G	Hz PNO: Fast	) Trig: Fre	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	33 ms (4	CE 123456 PE MWWWW FT P NN NN 530 GHz	Peak Search Next Pea Next Pk Rig
Res BW ag keysight Spe L larker 1 0 dB/div 0 g 0 dB/div 0 dB/di	100 kHz setrum Analyzer - Sw RF 50 Ω 2.3845296	AC 13240 G	Hz PNO: Fast	) Trig: Fre	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	33 ms (4	00000 pts) 1 2 3 4 5 6 E M M M M M 30 GHz 15 dBm	Peak Search Next Pea Next Pk Rig
Res BW 3G Keysight Spe L Iarker 1 0 dB/div 99 10 0 10 0 1	100 kHz setrum Analyzer - Sw RF 50 Ω 2.3845296	AC 13240 G	Hz PNO: Fast	) Trig: Fre	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	33 ms (4	00000 pts) 1 2 3 4 5 6 E M M M M M 30 GHz 15 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW G (keysight Spectrum) Iarker 1 0 dB/div 0 0 0 0	100 kHz setrum Analyzer - Sw RF 50 Ω 2.3845296	AC 13240 G	Hz PNO: Fast	) Trig: Fre	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	33 ms (4	00000 pts) 1 2 3 4 5 6 E M M M M M 30 GHz 15 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW G (keysight Spectrum) arker 1 0 dB/div 0 dB/div 0 0 0 0 0 0 0 0 0 0	100 kHz ctrum Analyzer - Sw №F 50 Ω 2.3845296 Ref 20.00 0	AC   13240 G	PNO: Fast FGain:Low	Trig: Free Atten: 30	NSE:INT	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100 MIKr1	33 ms (4	00000 pts) 1 2 3 4 5 6 E M M M M M 30 GHz 15 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De
Res         BW/           sa	100 kHz setrum Analyzer - Sw RF 50 Ω 2.3845296	AC   13240 G	PNO: Fast FGain:Low	Trig: Free Atten: 30	NSE:INT	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100 MIKr1	33 ms (4	00000 pts) 1 2 3 4 5 6 E M M M M M 30 GHz 15 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Res BW G (keysight Spectrum) arker 1 0 dB/div 0 dB/div 0 0 0 0 0 0 0 0 0 0	100 kHz ctrum Analyzer - Sw №F 50 Ω 2.3845296 Ref 20.00 0	AC   13240 G	PNO: Fast FGain:Low	Trig: Free Atten: 30	NSE:INT	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100 MIKr1	33 ms (4	00000 pts) 1 2 3 4 5 6 E M M M M M 30 GHz 15 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→Ref L
Res BW sq keysight Spectro arker 1 0 dB/div 9 0 dB/	100 kHz ctrum Analyzer - Sw RF   50 Ω 2.3845296 Ref 20.00 C 0.00 GHz	AC   13240 G	PNO: Fast FGain:Low	Trig: Free Atten: 30	NSE:INT	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100 MIKr1	33 ms (4	00000 pts) 1 2 3 4 5 6 E M M M M M 30 GHz 15 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del

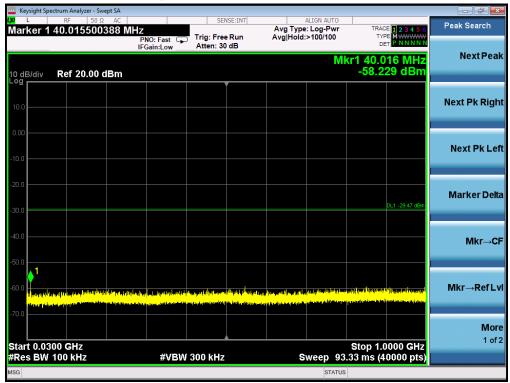
# TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN HIGH CHANNEL





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





Keysight S	pectrum Analyzer - S									
<u>~</u>	RF 50	000000 G	Hz PNO:Fast ⊂	Trig: Free			ALIGN AUTO : Log-Pwr :>100/100	TRAC TYP	E 1 2 3 4 5 6 E M W W W W T P N N N N N	Peak Search
		IF	Gain:Low	Atten: 30	) dB		Mkr1		00 GHz	NextPeak
10 dB/div Log	Ref 20.00	dBm						-34.8	41 dBm	
										Next Pk Right
10.0										itext i krugh
0.00										
-10.0										Next Pk Lef
20.0										
									DL1 -29.47 dT	Marker Delta
30.0										
40.0										Mkr→Cf
50.0										
60.0	an a							ار رو المراجع الم	, ala da <mark>b</mark> ada da ba	Mkr→RefLv
faceba solar	a pili di katilat biatak <mark>Kasistan di palatika pilita</mark>		ni na patini ni na titu. Mangangan patini na titu	n de la complete de l La complete de la comp	ar ne a constant Dallaran ha dana	an a	<mark>erenation) (kelokanan bi</mark>	, an a third at the data of the	AND AND AND A	
70.0										More
Start 1.0	000 GHz								000 GHz	1 of 2
#Res BV	000 GHz / 100 kHz		#VBV	V 300 kHz		s	weep 136			1 of 2
Res BV	/ 100 kHz		#VBV	V 300 kHz		S	weep 136 status			
FRes BV	f 100 kHz pectrum Analyzer - S RF 50 5	Ω AC			NSE:INT		STATUS ALIGN AUTO	5.0 ms (4	0000 pts)	
FRes BV	<b>100 KHz</b>	D AC		SEN	Run		STATUS ALIGN AUTO E: Log-Pwr	5.0 ms (4		Peak Search
Res BV	2 100 kHz pectrum Analyzer - S RF 50 1 24.97297 5	2 AC 9 <b>524488</b> F IF	GHz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	1.0 ms (4	0000 pts) E 123456 E MWWWWW T P NNNN 8 0 GHz	Peak Search
Res BV	f 100 kHz pectrum Analyzer - S RF 50 5	2 AC 9 <b>524488</b> F IF	GHz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	1.0 ms (4	0000 pts) 123456 MWWWW TPNNNN	Peak Search
Res BV sg Keysight S L larker	2 100 kHz pectrum Analyzer - S RF 50 1 24.97297 5	2 AC 9 <b>524488</b> F IF	GHz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	1.0 ms (4	0000 pts) E 123456 E MWWWWW T P NNNN 8 0 GHz	Peak Search
Keysight S Keysight S C L Marker	2 100 kHz pectrum Analyzer - S RF 50 1 24.97297 5	2 AC 9 <b>524488</b> F IF	GHz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	1.0 ms (4	0000 pts) E 123456 E MWWWWW T P NNNN 8 0 GHz	Peak Search Next Peal
Res BW sg Sg L Narker 10.0 0.00	2 100 kHz pectrum Analyzer - S RF 50 1 24.97297 5	2 AC 9 <b>524488</b> F IF	GHz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	1.0 ms (4	0000 pts) E 123456 E MWWWWW T P NNNN 8 0 GHz	Peak Search Next Peak Next Pk Righ
Res BW sg Sg L Narker 10.0 0.00	2 100 kHz pectrum Analyzer - S RF 50 1 24.97297 5	2 AC 9 <b>524488</b> F IF	GHz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	1.0 ms (4	0000 pts) E 123456 E MWWWWW T P NNNN 8 0 GHz	Peak Search Next Peak Next Pk Righ
Keysight S Keysight S Aarker 0 dB/div 0 dB/div 0 0 10.0	2 100 kHz pectrum Analyzer - S RF 50 1 24.97297 5	2 AC 9 <b>524488</b> F IF	GHz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	1.0 ms (4	0000 pts) E 123456 E MWWWWW T P NNNN 8 0 GHz	Peak Search Next Peak Next Pk Righ Next Pk Lef
Keysight S Keysight S Aarker 0 dB/div 0 dB/div	2 100 kHz pectrum Analyzer - S RF 50 1 24.97297 5	2 AC 9 <b>524488</b> F IF	GHz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	1.0 ms (4	0000 pts) E 123456 E MWWWWW T P NNNN 8 0 GHz	Peak Search Next Peak Next Pk Righ Next Pk Lef
Res         BW           sc         Keysight S           Keysight S         L           Aarker         Aarker           0         dB/div           0         0.00           10.0	2 100 kHz pectrum Analyzer - S RF 50 1 24.97297 5	2 AC 9 <b>524488</b> F IF	GHz PNO: Fast	SEN	Run	Avg Type	ALIGN AUTO :: Log-Pwr :>100/100 MKI1	24.97 -38.3	0000 pts)	Peak Search Next Peal Next Pk Righ Next Pk Lef
#Res BW           Issg           Keysight S           Marker           10.0           0.00           10.0           .000	2 100 kHz pectrum Analyzer - S RF 50 1 24.97297 5	2 AC 9 <b>524488</b> F IF	GHz PNO: Fast	SEN		Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr :> 100/100 Mkr1	1.0 ms (4	0000 pts)	Peak Search Next Peak Next Pk Righ Next Pk Lef
Res         BW           SG	2 100 kHz pectrum Analyzer - S RF 50 1 24.97297 5	2 AC 9 <b>524488</b> F IF	GHz PNO: Fast	SEN		Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr :>100/100 MKI1	24.97 -38.3	0000 pts)	Peak Search Next Peak Next Pk Righ Next Pk Lef
Keysight Sc         Keysight Sc           Keysight Sc         L           Aarker         L           10.0	2 100 kHz pectrum Analyzer - S RF 50 1 24.97297 5	2 AC 9 <b>524488</b> F IF	GHz PNO: Fast	SEN		Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr :> 100/100 Mkr1	24.97 -38.3	0000 pts)	Peak Search Next Peak Next Pk Righ Next Pk Lef Marker Delta MkrCF
Res         BW           SG         SG           Keysight S         Marker           Aarker         SG           10.0         SG           20.0         SG           40.0         SG           50.0         Harker           50.0         Harker	2 100 kHz pectrum Analyzer - S RF 50 1 24.97297 5	2 AC 9 <b>524488</b> F IF	GHz PNO: Fast	SEN		Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr :> 100/100 Mkr1	24.97 -38.3	0000 pts)	Peak Search Next Peak Next Pk Righ Next Pk Lef Marker Delta MkrCF
Res         BV/           SG	4 100 kHz	2 AC 9 <b>524488</b> F IF	GHz PNO: Fast	SEN		Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr :> 100/100 Mkr1	24.973 -38.3	0000 pts)	Peak Search Next Peal Next Pk Righ Next Pk Lef Marker Delta Mkr→Ref Lv More
Keysight Sc           Keysight Sc           Keysight Sc           0	4 100 kHz	2 AC 9 <b>524488</b> F IF	CHZ NO: Fast Gain:Low	SEN		Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr :> 100/100 Mkr1	5.0 ms (4	0000 pts)	1 of 2 Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lv More 1 of 2



						- Swept SA	pectrum Analyzer	Keysight Sp
Peak Search	TRACE 123456	ALIGN AUTO be: Log-Pwr d:>100/100		SENSE:INT	lz	0Ω AC 019673 MH		⊥ Iarker 1
Next Pea			Avgino	Atten: 30 dB	PNO: Fast 😱 FGain:Low		-	
	1 206.787 MHz -59.500 dBm	IVIKE				0 dBm	Ref 20.0	0 dB/div
Next Dk Digh				Ĭ				
Next Pk Righ								10.0
								0.00
Next Pk Let								10.0
								20.0
Marker Delt	DL1 -29.11 dBm							30.0
Mkr→C								40.0
						<u> </u>		50.0
Mkr→RefL	a <mark>n han pina , an ann an mar an sin an bhail an sa</mark>	laf filmini kontra tarih	(ta filma pa tradante	a <mark>h sanasan s</mark>	n san dan kana da da na da sa	<b>P</b>	to any contract the contract	60.0
	ine in a sublimited in the second second in the second second second second second second second second second	n a standarder filler an	a hann a dai shin aring in fili	and a standard of the standard of t	ala ang katalan dan katalan dalam	nikle Niki jestovi spor	il pite in a second	70.0
<b>Mor</b> 1 of:								
	Stop 1.0000 GHz 33 ms (40000 pts)	Sweep 93.		300 kHz	#VBW		300 GHz 100 kHz	
	Stop 1.0000 GHz 33 ms (40000 pts)	Sweep 93.		300 kHz	#VBW			
1 of:	.33 ms (40000 pts)	STATUS ALIGN AUTO		300 kHz		0Ω AC	pectrum Analyzer	Res BW SG Keysight Sp
1 of:	Stop 1.0000 GHz 33 ms (40000 pts)	STATUS		SENSE:INT	Hz PNO: Fast	0Ω AC 3925473 G	pectrum Analyzer	Res BW SG Keysight Sp
1 of:	33 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz	0 Ω AC   3925473 G	V 100 kHz pectrum Analyzer RF 1 2.35701	Res BW sg Keysight Sp L Marker 1
1 of	33 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	Hz PNO: Fast	0 Ω AC   3925473 G	pectrum Analyzer	Res BW SG Keysight Sp
1 of	33 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	Hz PNO: Fast	0 Ω AC   3925473 G	V 100 kHz pectrum Analyzer RF 1 2.35701	Keysight Sp Keysight Sp L Marker 1
1 of Peak Search Next Pea	33 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	Hz PNO: Fast	0 Ω AC   3925473 G	V 100 kHz pectrum Analyzer RF 1 2.35701	Keysight Sp Keysight Sp L Marker 1 0 dB/div
1 of Peak Search Next Pea	33 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	Hz PNO: Fast	0 Ω AC   3925473 G	V 100 kHz pectrum Analyzer RF 1 2.35701	Res BW sc Keysight Sp L Marker 1 10.0
1 of	33 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	Hz PNO: Fast	0 Ω AC   3925473 G	V 100 kHz pectrum Analyzer RF 1 2.35701	Res BW sc Keysight Sp L Aarker 1 10.0
1 of	33 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	Hz PNO: Fast	0 Ω AC   3925473 G	V 100 kHz pectrum Analyzer RF 1 2.35701	Res BW sc Keysight Sp L Marker 1 10.0
1 of Peak Search Next Peak Next Pk Righ	33 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	Hz PNO: Fast	0 Ω AC   3925473 G	V 100 kHz pectrum Analyzer RF 1 2.35701	Res BW sc Keysight Sp L Aarker 1 10.0
1 of Peak Search Next Peak Next Pk Righ	33 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	Hz PNO: Fast	0 Ω AC   3925473 G	V 100 kHz pectrum Analyzer RF 1 2.35701	Res BW sc Keysight Sp L Aarker 1 10.0
1 of	33 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	Hz PNO: Fast	0 Ω AC   3925473 G	V 100 kHz pectrum Analyzer RF 1 2.35701	Res BW s G Keysight Sp G C G B/div O G B/div O G G G G G G G G G G G G G G G G G G
1 of	33 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100	Avg Hc	SENSE:INT Trig: Free Run Atten: 30 dB	SHZ PNO: Fast FGain:Low	0 c AC   3925473 G 0 dBm	100 kHz	Res         BW           sa
1 of	33 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100	Avg Hc	SENSE:INT	SHZ PNO: Fast FGain:Low	0 c AC   3925473 G 0 dBm	100 kHz	Res         BW           sc
1 of Peak Search Next Peal Next Pk Right Next Pk Lef Marker Dett Mkr→Ct Mkr→Ref Ly	33 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100	Avg Hc	SENSE:INT Trig: Free Run Atten: 30 dB	SHZ PNO: Fast FGain:Low	0 c AC   3925473 G 0 dBm	100 kHz	Res         BW           sc
1 of Peak Search Next Peal Next Pk Right Next Pk Lef Marker Delt Mkr→Cl	33 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100 MKr1	Avg Hc	SENSE:INT Trig: Free Run Atten: 30 dB	SH2 PNO: Fast FGain:Low	0 c AC   3925473 G 0 dBm	100 kHz	Res         BW           SG         SG           Keysight Sp         SG           Marker 1         SG           0         G           10         SG           10         SG

# 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





Keysight Spe	ectrum Analyzer - S	wept SA Ω AC		0.51	In the second					
larker 1	RF 50	549364 G	Hz NO: Fast	Trig: Free		Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	TRAC TY	CE 123456 PE MWWWW ET P N N N N N	Peak Search
		IF	Gain:Low	Atten: 30	) dB		Mkr1		975 GHz	NextPea
0 dB/div	Ref 20.00	dBm							74 dBm	
										Next Pk Righ
10.0										Ŭ
0.00										Next Pk Le
10.0										NEXTERE
0.0										
0.0									DL1 -30.27 dBm	Marker Del
10.0									1	Mkr→C
0.0									,	
i0.0 <mark>Myndektur</mark>	u handa alma suanda bili		an de all désemble d'une	and in the property of			a dan kan hand da	hadar da la	a data ata a	Mkr→RefL
0.0	<sup>لي</sup> والتركي طعم من مكتبًا الريخ <sub>ا</sub> لتروي	inte antiche discher die sein der		an approximation	P. D. P. C.					
										Moi 1 of
					<u> </u>					
itart 1.00 Res BW	00 GHz 100 kHz		#VBW	300 kHz	•	s	weep 13	.Stop 2 4 6.0 ms	4000 GHz 40000 pts)	1 01
			#VBW	300 kHz	A	s	status	Stop 2.4 6.0 ms (4	4000 GHz 10000 pts)	
Res BW	100 kHz ectrum Analyzer - S	wept SA Ω AC	#VBW		NSE:INT		STATUS	6.0 ms (4	10000 pts)	- 0
Res BW SG Keysight Spe	100 kHz ectrum Analyzer - S	Ω AC 353146 G	Hz PNO: Fast G	) Trig: Free	NSE:INT	Avg Type	STATUS	6.0 ms (4	10000 pts)	
Res BW	100 kHz ectrum Analyzer - S RF 50 :	Ω AC 353146 G	iHz	SEI	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	6.0 ms (4	CE 123456 PE MWWWW ET P NNNNN 46 GHz	
Res BW G Keysight Spe	100 kHz ectrum Analyzer - S RF 50 :	Ω AC 353146 G F	Hz PNO: Fast G	) Trig: Free	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	6.0 ms (4	LOOOO pts)	Peak Search
Res BW	100 kHz ectrum Analyzer - S RF 50 2.4846258	Ω AC 353146 G F	Hz PNO: Fast G	) Trig: Free	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	6.0 ms (4	CE 123456 PE MWWWW ET P NNNNN 46 GHz	Peak Search Next Pea
Res BW	100 kHz ectrum Analyzer - S RF 50 2.4846258	Ω AC 353146 G F	Hz PNO: Fast G	) Trig: Free	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	6.0 ms (4	CE 123456 PE MWWWW ET P NNNNN 46 GHz	Peak Search Next Pea
Res BW G Keysight Specific arker 1 0 dB/div 99 0.0	100 kHz ectrum Analyzer - S RF 50 2.4846258	Ω AC 353146 G F	Hz PNO: Fast G	) Trig: Free	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	6.0 ms (4	CE 123456 PE MWWWW ET P NNNNN 46 GHz	Peak Search Next Pea Next Pk Rigi
Res BW G Keysight Specific arker 1 0 dB/div 99 0.0	100 kHz ectrum Analyzer - S RF 50 2.4846258	Ω AC 353146 G F	Hz PNO: Fast G	) Trig: Free	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	6.0 ms (4	CE 123456 PE MWWWW ET P NNNNN 46 GHz	Peak Search Next Pea Next Pk Rigi
Res BW G Keysight Specific arker 1 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz ectrum Analyzer - S RF 50 2.4846258	Ω AC 353146 G F	Hz PNO: Fast G	) Trig: Free	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	6.0 ms (4	CE 123456 PE MWWWW ET P NNNNN 46 GHz	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW G Keysight Spo arker 1 O dB/div O dV O dV	100 kHz ectrum Analyzer - S RF 50 2.4846258	Ω AC 353146 G F	Hz PNO: Fast G	) Trig: Free	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr :>100/100	6.0 ms (4	CE 123456 PE MWWWW ET P NNNNN 46 GHz	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW Keysight Spe Larker 1 arker 1 0 dB/div 0 0 0 0 0 0 0 0 1 	100 kHz ectrum Analyzer - S RF 50 2.4846258	Ω AC 353146 G F	Hz PNO: Fast G	) Trig: Free	vse:INT ■ Run ■ dB	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr :>100/100 MK	6.0 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW         Keysight Spectrum           arker 1         arker 1           0 dB/div         9           0.0         1           0.0         1           0.0         1	100 kHz ectrum Analyzer - S RF 50 2.4846258	Ω AC 353146 G F	Hz PNO: Fast G	) Trig: Free	vse:INT	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr :>100/100 MK	6.0 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW G Keysight Specification arker 1 arker 1 arke	100 kHz ectrum Analyzer - S RF 50 2.4846258	Ω AC 353146 G F	Hz PNO: Fast G	) Trig: Free	vse:INT	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100 Mk	6.0 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Res BW G Keysight Spectro arker 1 arker 1 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz ectrum Analyzer - S RF 50 2.4846258	Ω AC 353146 G F	Hz PNO: Fast G	) Trig: Free	vse:INT	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100 Mk	6.0 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Res BW G Keysight Specification arker 1 arker 1 arke	100 kHz ectrum Analyzer - S RF 50 2.4846258	Ω AC 353146 G F	Hz PNO: Fast G	) Trig: Free	vse:INT	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100 Mk	6.0 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→Ref L
	100 kHz	Ω AC 353146 G F	Hz PNO: Fast G	) Trig: Free	vse:INT	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100 Mk	6.0 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del

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OF 802 Keysight Spectrum Analyzer - Swept SA	2.11n20 F					- # ×
	MHz PNO: Fast 😱	SENSE:INT	ALIGN A Avg Type: Log- Avg Hold:>100/1	Pwr TRACI	E 1 2 3 4 5 6 E M WWWWW	Peak Search
	IFGain:Low	Atten: 30 dB		Mkr1 877.1	95 MHz 05 dBm	NextPeak
10 dB/div Ref 20.00 dBm		Ĭ		-36.70	<b>ла ав</b> т	
10.0						Next Pk Right
0.00						Next Pk Left
-10.0						
-20.0					DL1 -29.69 dBm	Marker Delta
-40.0						
-40.0						Mkr→CF
-60.0						Mkr→RefLvl
-70.0	Angen and an	n de general de la companya de la co Na companya de la comp	n persona di seconda d Na seconda di seconda d	arren () i an d' i a an an in i a de fit de la de l	bild the oler title is a	
						More
				Stop 1.0	000 GH7	1 of 2
*700 Start 0.0300 GHz #Res BW 100 kHz	#VBW	300 kHz		Stop 1.0 93.33 ms (44	000 GHz 0000 pts)	1 of 2
Start 0.0300 GHz #Res BW 100 kHz MSG MSG	#VBW		5	93.33 ms (4)	000 GHz 0000 pts)	1 of 2
Start 0.0300 GHz #Res BW 100 kHz #Sg	5 GHz PNO: Fast 😱	SENSE:INT		0 93.33 ms (4) status UTO Pwr TRACI	0000 GHz 0000 pts)	
Start 0.0300 GHz #Res BW 100 kHz AsG Keysight Spectrum Analyzer - Swept SA Keysight Spectrum Analyzer - Swept SA Keysight Spectrum Analyzer - Swept SA Marker 1 2.399894997375	5 GHz	SENSE:INT	ALIGN A Avg Type: Log- Avg Hold:>100/1	9 93.33 ms (4) status UTO Pwr TRACI 100 TVP DE kr1 2.399 8	0000 pts) = 1 2 3 4 5 6 = M WWWWW T P N N N N	Peak Search
Start 0.0300 GHz #Res BW 100 kHz #sg Keysight Spectrum Analyzer - Swept SA X L RF 50Ω AC Marker 1 2.399894997375	5 GHz PNO: Fast 😱	SENSE:INT	ALIGN A Avg Type: Log- Avg Hold:>100/1	9 93.33 ms (4) status UTO Pwr TRACI 100 TVP DE kr1 2.399 8	0000 pts) 123456 MMMMMM PNNNNN 95 GHz	Peak Search Next Peak
Start 0.0300 GHz #Res BW 100 kHz #sg Keysight Spectrum Analyzer - Swept SA X L RF 50Ω AC Marker 1 2.399894997375	5 GHz PNO: Fast 😱	SENSE:INT	ALIGN A Avg Type: Log- Avg Hold:>100/1	9 93.33 ms (4) status UTO Pwr TRACI 100 TVP DE kr1 2.399 8	0000 pts) 123456 MMMMMM PNNNNN 95 GHz	Peak Search Next Peak
Start 0.0300 GHz #Res BW 100 kHz #SG Start 0.0300 GHz #SG Marker 1 2.399894997375 Marker 1 2.399894997375	5 GHz PNO: Fast 😱	SENSE:INT	ALIGN A Avg Type: Log- Avg Hold:>100/1	9 93.33 ms (4) status UTO Pwr TRACI 100 TVP DE kr1 2.399 8	0000 pts) 123456 MMMMMM PNNNNN 95 GHz	Peak Search Next Peak Next Pk Right
Start 0.0300 GHz #Res BW 100 kHz Msg Keysight Spectrum Analyzer - Swept SA X L RF 50 Q AC Marker 1 2.399894997375	5 GHz PNO: Fast 😱	SENSE:INT	ALIGN A Avg Type: Log- Avg Hold:>100/1	9 93.33 ms (4) status UTO Pwr TRACI 100 TVP DE kr1 2.399 8	0000 pts) 123456 MMMMMM PNNNNN 95 GHz	Peak Search Next Peak Next Pk Right Next Pk Left
Start 0.0300 GHz #Res BW 100 kHz wsg keysight Spectrum Analyzer - Swept SA Z L RF 50 0 AC Marker 1 2.399894997375 10 dB/div Ref 20.00 dBm	5 GHz PNO: Fast 😱	SENSE:INT	ALIGN A Avg Type: Log- Avg Hold:>100/1	0 93.33 ms (44 STATUS UTO PWF TRACE 00 TYP DE Kr1 2.399 8 -34.45	0000 pts) 123456 MMMMMM PNNNNN 95 GHz	Peak Search Next Peak Next Pk Right
Start 0.0300 GHz #Res BW 100 kHz wsg keysight Spectrum Analyzer - Swept SA Z L RE 50 Q AC Marker 1 2.399894997375 10 dB/div Ref 20.00 dBm	5 GHz PNO: Fast 😱	SENSE:INT	ALIGN A Avg Type: Log- Avg Hold:>100/1	0 93.33 ms (44 STATUS UTO PWF TRACE 00 TYP DE Kr1 2.399 8 -34.45	0000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left
Start 0.0300 GHz #Res BW 100 kHz wsg wsg Keysight Spectrum Analyzer - Swept SA X L RF 50 Ω AC Marker 1 2.399894997375 10 dB/div Ref 20.00 dBm 10.0 0.00 -10.0 -20.0 -30.0	5 GHz PNO: Fast 😱	SENSE:INT	ALIGN A Avg Type: Log- Avg Hold:>100/1	0 93.33 ms (44 STATUS UTO PWF TRACE 00 TYP DE Kr1 2.399 8 -34.45	0000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left
Start 0.0300 GHz #Res BW 100 kHz wsg wsg Keysight Spectrum Analyzer - Swept SA X L RF 50 Ω AC   Marker 1 2.399894997375 10 dE/div Ref 20.00 dBm 10.0 0.00 -10.0 -20.0 -30.0 -40.0	GHZ PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN A Avg Type: Log- Avg Hold:>100/1	0 93.33 ms (44 STATUS UTO PWF TRACE 00 TYP DE Kr1 2.399 8 -34.45	0000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left
Start 0.0300 GHz #Res BW 100 kHz MsG Keysight Spectrum Analyzer - Swept SA X L RF 50 Ω AC 1 Marker 1 2.399894997375 10 dB/div Ref 20.00 dBm 10.0 10.0 -0	GHZ PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN A Avg Type: Log- Avg Hold:>100/1	0 93.33 ms (44 STATUS UTO PWF TRACE 00 TYP DE Kr1 2.399 8 -34.45	0000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
Start 0.0300 GHz #Res BW 100 kHz Msc Keysight Spectrum Analyzer - Swept SA X L RF 50 Q AC Marker 1 2.399894997375 10 dB/div Ref 20.00 dBm 10 0 20 0 -0 0	GHZ PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN A Avg Type: Log- Avg Hold:>100/1	9 93.33 ms (44 STATUS UTO Pwr TRACE Pwr TRACE Pwr 2.399 8 -34.44 -34.44 -34.44 -34.44 -34.44	0000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF

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

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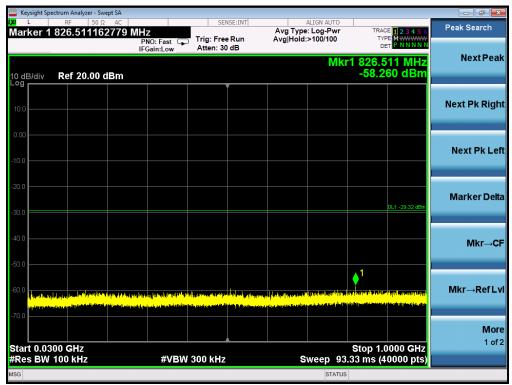




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### TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE

OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL





🔤 Keysight Sp	ectrum Analyzer - Si	wept SA								
<mark>⊯</mark> ∟ Marker 1	RF 50 9		iHz	SEN	NSE:INT	Avg Type	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 DET P.NNNNN DET P.NNNNN		Peak Search	
Marker	2.000000		PNO: Fast 🖵 Gain:Low	Trig: Free Atten: 30		Avg Hold	:>100/100	TYI Di		
							Mkr1	2.356 9	84 GHz	Next Peak
10 dB/div Log	Ref 20.00	dBm						-50.7	70 dBm	
										Next Pk Right
10.0										Next PK Right
0.00										
										Next Pk Left
-10.0										
-20.0										
									DL1 -29.32 dBm	Marker Delta
-30.0										
-40.0										Mkr→CF
-50.0									1	
-30.0									<u> </u>	
-60.0	and the second second second second	no statistica sugerary	and a star a second	and the states	an dinemperatura	wild press pression of	ار والارانية مراجع <mark>الربيع</mark>	a forglet a shirt of he		Mkr→RefLvl
-70.0	les haave deterrite the fields	a da ta ini di si sa julita sa salar sa juli	nd a light in print in the second	a forske a forske de alse palada y	ning and a star with	الالدفاة فختاك فاعتر ويهاهروال اعتبادا	la se			
10.0										More
										1 of 2
Start 1.00	000 GHz	1						Stop 2.4	4000 GHz	
#Res BW			#VBW	300 kHz		S		36.0 ms (4	4000 GHz 0000 pts)	
			#VBW	300 kHz		9	з <b>weep 1</b> 3	36.0 ms (4	4000 GHz -0000 pts)	
#Res BW	100 kHz		#VBW				STATU	36.0 ms (4	1000 GHz 10000 pts)	
#Res BW MSG Keysight Sp K	100 kHz	Ω AC 2451061	GHz	SEN	VSE:INT	Avg Type	STATU: ALIGN AUTO e: Log-Pwr	36.0 ms (4 s TRAC	20000 pts)	Peak Search
#Res BW MSG Keysight Sp K	100 kHz ectrum Analyzer - So RF 50 9	Ω AC 2451061		SEN	NSE:INT	Avg Type	ALIGN AUTO E: Log-Pwr :>100/100	36.0 ms (4 s TRAG	20000 pts)	Peak Search
#Res BW MSG Keysight Sp (X) L Marker 1	100 kHz ectrum Analyzer - Si RF 50 9 24.973542	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	NSE:INT	Avg Type	ALIGN AUTO E: Log-Pwr :>100/100	86.0 ms (4 s TRAC TYI D T <b>1 24.97</b>	20000 pts)	
#Res BW MSG Keysight Sp K	100 kHz ectrum Analyzer - So RF 50 9	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	NSE:INT	Avg Type	ALIGN AUTO E: Log-Pwr :>100/100	86.0 ms (4 s TRAC TYI D T <b>1 24.97</b>	CE 123456 M M M N N N 3 5 GHz	Peak Search
#Res BW MSG Keysight Sp (X) L Marker 1	100 kHz ectrum Analyzer - Si RF 50 9 24.973542	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	NSE:INT	Avg Type	ALIGN AUTO E: Log-Pwr :>100/100	86.0 ms (4 s TRAC TYI D T <b>1 24.97</b>	CE 123456 M M M N N N 3 5 GHz	Peak Search
#Res BW MSG Keysight Sp IX L Marker 1 10 dB/div Log 10.0	100 kHz ectrum Analyzer - Si RF 50 9 24.973542	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	NSE:INT	Avg Type	ALIGN AUTO E: Log-Pwr :>100/100	86.0 ms (4 s TRAC TYI D T <b>1 24.97</b>	CE 123456 M M M N N N 3 5 GHz	Peak Search Next Peak
#Res BW MSG Keysight Sp KX L Marker 1 10 dB/div Log	100 kHz ectrum Analyzer - Si RF 50 9 24.973542	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	NSE:INT	Avg Type	ALIGN AUTO E: Log-Pwr :>100/100	86.0 ms (4 s TRAC TYI D T <b>1 24.97</b>	CE 123456 M M M N N N 3 5 GHz	Peak Search Next Peak Next Pk Right
#Res BW MSG Keysight Sp IX L Marker 1 10 dB/div Log 10.0	100 kHz ectrum Analyzer - Si RF 50 9 24.973542	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	NSE:INT	Avg Type	ALIGN AUTO E: Log-Pwr :>100/100	86.0 ms (4 s TRAC TYI D T <b>1 24.97</b>	CE 123456 M M M N N N 3 5 GHz	Peak Search Next Peak
#Res BW MSG Keysight Sp Z L I Marker 1 I O dB/div L O g I O 0.00 -10.0	100 kHz ectrum Analyzer - Si RF 50 9 24.973542	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	NSE:INT	Avg Type	ALIGN AUTO E: Log-Pwr :>100/100	86.0 ms (4 s TRAC TYI D T <b>1 24.97</b>	CE 123456 M M M N N N 3 5 GHz	Peak Search Next Peak Next Pk Right
#Res BW MSG Keysight Sp Z L I Marker 1 I O dB/div L O 0.00	100 kHz ectrum Analyzer - Si RF 50 9 24.973542	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	NSE:INT	Avg Type	ALIGN AUTO E: Log-Pwr :>100/100	86.0 ms (4 s TRAC TYI D T <b>1 24.97</b>	23456 23456 7 NNNN 3 5 GHz 02 dBm	Peak Search Next Peak Next Pk Right
#Res BW MSG Keysight Sp Z L I Marker 1 I O dB/div L O g I O 0.00 -10.0	100 kHz ectrum Analyzer - Si RF 50 9 24.973542	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	NSE:INT	Avg Type	ALIGN AUTO E: Log-Pwr :>100/100	86.0 ms (4 s TRAC TYI D T <b>1 24.97</b>	CE 123456 M M M N N N 3 5 GHz	Peak Search Next Peak Next Pk Right Next Pk Left
#Res BW MSG MSG Marker 1 10 dB/div Cog 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.	100 kHz ectrum Analyzer - Si RF 50 9 24.973542	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	NSE:INT	Avg Type	STATU:	1 24.97 -38.0	00000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
#Res BW           MSG         Image: Constraint of the second s	100 kHz ectrum Analyzer - Si RF 50 9 24.973542	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	RUN dB	Avg Type Avg Hold	STATU: ALIGN AUTO 2: LOGI-Pwr :>100/100 MIKI	1 24.97 -38.0	00000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left
#Res BW MSG MSG Marker 1 10 dB/div Cog 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.	100 kHz ectrum Analyzer - Si RF 50 9 24.973542	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	RUN dB	Avg Type Avg Hold	STATU:	1 24.97 -38.0	00000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
#Res BW MSG MSG Marker 1 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10	100 kHz ectrum Analyzer - Si RF 50 9 24.973542	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	RUN dB	Avg Type Avg Hold	STATU: ALIGN AUTO 2: LOGI-Pwr :>100/100 MIKI	1 24.97 -38.0	00000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
#Res BW MSG MSG Marker 1 10.0 -10.0 -20.0 -30.0 -40.0	100 kHz ectrum Analyzer - Si RF 50 9 24.973542	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	RUN dB	Avg Type Avg Hold	STATU:	1 24.97 -38.0	00000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
#Res BW MSG MSG Marker 1 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10	100 kHz ectrum Analyzer - Si RF 50 9 24.973542	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	RUN dB	Avg Type Avg Hold	STATU:	1 24.97 -38.0	00000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvl
#Res BW           MSG           Marker 1           Marker 1           10.0           10.0           -10.0           -10.0           -30.0           -40.0           -50.0           University           -60.0           -70.0	100 kHz ectrum Analyzer - Si RF 50.00 Ref 20.00	Ω AC 2 <b>451061</b> I	GHz NO: Fast 😱	SEN Trig: Free	RUN dB	Avg Type Avg Hold	STATU:	1 24.97 -38.0	00000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvl More
#Res BW MSG Keysight Sp ZZ L D G G G G G G G G G G G G G G G G G G	100 kHz ectrum Analyzer - S RF 50 H 24.973542 Ref 20.00 	Ω AC 2 <b>451061</b> I	GHZ Gain:Low	SEN Trig: Free	RE:INT	Avg Type Avg Hold	STATU: ALIGN AUTO E: LOGI-Pwr :>100/100 MIKI	Stop 2	00000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvl

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Keysight Sp	ectrum Analyzer - S RF 50			SEN	ISE:INT		ALIGN AUTO			
	826.0504	01260 M	PNO: Fast 🔾	Trig: Free	Run	Avg Type	e: Log-Pwr :>100/100	TRAC TYI	CE 1 2 3 4 5 6 PE MWWWW ET P NNNN	Peak Search
			IFGain:Low	Atten: 30	ab		Mk		50 MHz	NextPea
0 dB/div	Ref 20.00	dBm						-58.5	88 dBm	
										Next Pk Rig
10.0										Next PK Rig
0.00										
10.0										Next Pk L
10.0										
20.0										Marker De
30.0									DL1 -30.12 dBm	Marker De
40.0										Mkr→
50.0								4		
60.0								<b>∮</b> <sup>1</sup>		Mkr→RefL
re Reyeld (M) The second se		and the second		an an in the second	and the Maler of Maler Sector Contractor	dinandra indiata <mark>de manifesta de la seguna de la s Indiata de la seguna de la seguna</mark>		ni na na internetion		
70.0										Ma
										1 0
								Ofen di	0000 00-	1 01 2
	300 GHz 100 kHz		#VBV	V 300 kHz		s	weep 93	Stop 1.0 .33 ms (4	0000 GHz 0000 pts)	
Start 0.03 #Res BW			#VBV	V 300 kHz		s	SWEED 93	.33 ms (4	0000 GHz 0000 pts)	
<b>FRES BW</b>	100 kHz		#VBV				STATUS	.33 ms (4	0000 GHz 0000 pts)	
FRES BW	100 kHz	Ω AC 550239 (	GHz	SEN	ISE:INT	Avg Type	STATUS	.33 ms (4	0000 pts)	
FRES BW	100 kHz ectrum Analyzer - 5 RF 50	Ω AC 550239 C		SEN	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	20000 pts)	Peak Search
Res BW sg Keysight Sp L Aarker 1	100 kHz ectrum Analyzer - 5 RF 50 2.382009	Ω AC 550239 (	CHZ PNO: Fast G	SEN	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	CE 123456 PE MWWWW FT P NNNN 010 GHz	Peak Search
Res BW SG Keysight Sp	100 kHz ectrum Analyzer - 5 RF 50	Ω AC 550239 (	CHZ PNO: Fast G	SEN	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	20000 pts)	Peak Search
Keysight Sp Keysight Sp L Marker 1	100 kHz ectrum Analyzer - 5 RF 50 2.382009	Ω AC 550239 (	CHZ PNO: Fast G	SEN	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	CE 123456 PE MWWWW FT P NNNN 010 GHz	Peak Search Next Pea
Res BW sc keysight Sp L Iarker 1 0 dB/div	100 kHz ectrum Analyzer - 5 RF 50 2.382009	Ω AC 550239 (	CHZ PNO: Fast G	SEN	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	CE 123456 PE MWWWW FT P NNNN 010 GHz	Peak Search Next Pea
Res BW sc keysight Sp L Iarker 1 0 dB/div	100 kHz ectrum Analyzer - 5 RF 50 2.382009	Ω AC 550239 (	CHZ PNO: Fast G	SEN	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	CE 123456 PE MWWWW FT P NNNN 010 GHz	Peak Search Next Pea Next Pk Rig
Res BW sa sa sa keysight Sp L Marker 1 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz ectrum Analyzer - 5 RF 50 2.382009	Ω AC 550239 (	CHZ PNO: Fast G	SEN	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	CE 123456 PE MWWWW FT P NNNN 010 GHz	Peak Search Next Pea Next Pk Rig
Res BW sa Keysight Sp L Marker 1	100 kHz ectrum Analyzer - 5 RF 50 2.382009	Ω AC 550239 (	CHZ PNO: Fast G	SEN	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	CE 123456 PE MWWWW FT P NNNN 010 GHz	Peak Search Next Pea Next Pk Rig
Keysight Sp       Keysight Sp       L       Aarker 1       0 dB/div       9       10.0       20.0	100 kHz ectrum Analyzer - 5 RF 50 2.382009	Ω AC 550239 (	CHZ PNO: Fast G	SEN	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	CE 123456 PE MWWWW FT P NNNN 010 GHz	Peak Search Next Pea Next Pk Rig Next Pk Lu
Keysight Sp       Keysight Sp       L       Aarker 1       0 dB/div       9       10.0       20.0	100 kHz ectrum Analyzer - 5 RF 50 2.382009	Ω AC 550239 (	CHZ PNO: Fast G	SEN	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	CE 123456 PE MWWWW FT P NNNN 010 GHz	Peak Search Next Pea Next Pk Rig Next Pk Lu
Res BW           SG           Keysight Sp           Ø           Arrker 1           0 dB/div           0 0           10.0           10.0           20.00           30.0	100 kHz ectrum Analyzer - 5 RF 50 2.382009	Ω AC 550239 (	CHZ PNO: Fast G	SEN	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	CE 123456 PE MWWWW FT P NNNN 010 GHz	Peak Search Next Pea Next Pk Rig Next Pk Lu
Ress BW           SG           Keysight Sp           Ø           Aarker 1           O dB/div           O dB/div           0 0	100 kHz ectrum Analyzer - 5 RF 50 2.382009	Ω AC 550239 (	CHZ PNO: Fast G	SEN	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	CE 123456 PE MWWWW FT P NNNN 010 GHz	Peak Search Next Pea Next Pk Rig Next Pk Lu
Ress BW           SG           Keysight Sp           Ø           Aarker 1           O dB/div           O dB/div           0 0	100 kHz ectrum Analyzer - 5 RF 50 2.382009	Ω AC 550239 (	CHZ PNO: Fast G	SEN	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	CE 123456 PE MWWWW FT P NNNN 010 GHz	Peak Search Next Pea Next Pk Rig Next Pk Lu
Res         BW           sc         Keysight Sp           Marker 1         Marker 1           0         dB/div           0         dB/div<	100 kHz ectrum Analyzer - 5 RF 50 2.382009	Ω AC   550239 ( dBm	SHZ PNO: Fast IFGain:Low	C SEN Trig: Free Atten: 30	Run dB	Avg Type Avg Hold	ALIGN AUTO E: Log-Pwr >100/100 MKr1	.33 ms (4	CE 123456 PE MWWWW FT P NNNN 010 GHz	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De
Res BW           SG           Keysight Sp           Ø           Aarker 1           O dB/div           0	100 kHz RF 50 2.382009 Ref 20.00	Ω AC   550239 ( dBm	SHZ PNO: Fast IFGain:Low	C SEN Trig: Free Atten: 30	Run dB	Avg Type Avg Hold	ALIGN AUTO E: Log-Pwr >100/100 MKr1	.33 ms (4	CE 123456 PE MWWWW FT P NNNN 010 GHz	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr-o
Ress BW           Keysight Sp           Arrker 1           0 <tr< td=""><td>100 kHz RF 50 2.382009 Ref 20.00</td><td>Ω AC   550239 ( dBm</td><td>SHZ PNO: Fast IFGain:Low</td><td>C SEN Trig: Free Atten: 30</td><td>Run dB</td><td>Avg Type Avg Hold</td><td>ALIGN AUTO E: Log-Pwr &gt;100/100 MKr1</td><td>.33 ms (4</td><td>CE 123456 PE MWWWW FT P NNNN 010 GHz</td><td>Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr→C</td></tr<>	100 kHz RF 50 2.382009 Ref 20.00	Ω AC   550239 ( dBm	SHZ PNO: Fast IFGain:Low	C SEN Trig: Free Atten: 30	Run dB	Avg Type Avg Hold	ALIGN AUTO E: Log-Pwr >100/100 MKr1	.33 ms (4	CE 123456 PE MWWWW FT P NNNN 010 GHz	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr→C
Image: set	100 kHz RF 50 2.382009 Ref 20.00	Ω AC   550239 ( dBm	CHZ PNO: Fast FGain:Low	C SEN Trig: Free Atten: 30	Run dB		ALIGN AUTO E: Log-Pwr >100/100 MKr1	.33 ms (4	20000 pts)	

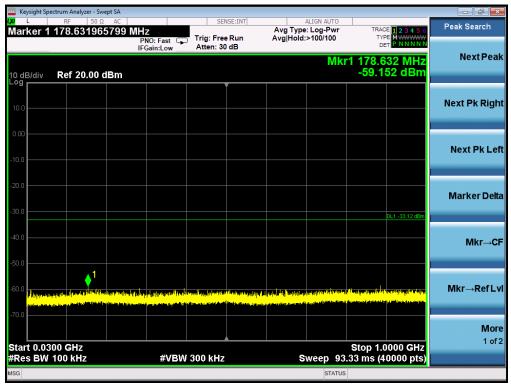
# TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL



							m Analyzer - Swe		
Peak Search	TRACE 1 2 3 4 5 6	ALIGN AUTO Avg Type: Log-Pwr	NSE:INT		lz	AC	RF 50 Ω 48462585		a ∟ Mark
NextPea	DET P NNNN	Avg Hold:>100/100		Trig: Free Atten: 30	IO: Fast 🖵 Sain:Low	PI IFC			
NextPear	1 2.484 6 GHz -25.922 dBm	Mk				Bm	ef 20.00 d	3/div R	) dB
				``````					<sup>g</sup>
Next Pk Righ									1.0
Next Pk Lef									
									╹┠
Marker Delta	DL1 -30.12 dBm								0
								1	
Mkr→CF		utions. Income and a						←	٦Ě
									o
Mkr→RefLv							1	ine difference of the	
wiki →Rei Lv									ľ
									╹┝
More 1 of 2									
	Stop 25.00 GHz 7 ms (40000 pts)	Sweep 58.		3.0 MHz	#VBW			t 2.48 GH s BW 1.0	
		STATUS							G

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





- 7				asues wet			ctrum Analyzer - S	Keysight Spe
Peak Search	TRACE 1 2 3 4 5 6	ALIGN AUTO e: Log-Pwr I:>100/100	Avg	SENSE:INT			RF 50 9	arker 1
NextPe	TYPE M WWWWW DET P NNNNN			Atten: 30 dB	NO: Fast 😱 Gain:Low			
Nextre	2.398 495 GHz -36.223 dBm	Mkr1 2.3				dBm	Ref 20.00	dB/div
				Ĭ				
Next Pk Rig								0.0
								.00
Next Pk L								0.0
								,
Marker De								).0
	DL1 -33.12 d 1							).0
Balan								
Mkr→0								
								).0
Mkr→RefL		the state of the set over the the state of the	A THE PARTY AND A		deserves the film		alaan adada tilaa iiraa	0.0 <mark>Alimetere</mark>
				a da da da da ga a cara da	in in the line of the film of the line is a second second second second second second second second second seco	an a	an ana anin' isan ing dikasi kabili di	0.0
Mo				<b>A</b>				
<b>М</b> а 1 о	Stop 2.4000 GHz	Steen 136.0		10 kHz	#\/B\/(			art 1.00
	Stop 2.4000 GHz ô.0 ms (40000 pts)	St Sweep 136.0		00 kHz	#VBW		00 GHz 100 kHz	Res BW
1 o	Stop 2.4000 GHz ŝ.0 ms (40000 pts)	Sweep 136.0		00 kHz	#VBW	wept SA		Res BW
	5.0 ms (40000 pts)	Sweep 136.0 STATUS ALIGN AUTO e: Log-Pwr	Avg	SENSE:INT		Ω AC	<b>100 KHZ</b> ctrum Analyzer - So	Keysight Spe
1 o ෙළෙළ Peak Search	5.0 ms (40000 pts) TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P. NN NN N	Sweep         136.0           status         status           ALIGN AUTO         status           e: Log-Pwr         status           l:>100/100         status	Avg			R AC 653866 C	100 KHz ctrum Analyzer - So RF 50 9	Keysight Spe
1 o	5.0 ms (40000 pts) TRACE 2.3 4.5 6 TYPE M WWWW DET P. NNNNN 24.956 7 GH2	Auron 136.0 status auron auro e: Log-Pwr i:>100/100 Mkr1 2	Avg Avg	SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 kHz ctrum Analyzer - So RF 50 9 24.956654	Keysight Spe
1 o ෙළෙළ Peak Search	5.0 ms (40000 pts) TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P. NN NN N	Auron 136.0 status auron auro e: Log-Pwr i:>100/100 Mkr1 2	Avg	SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 KHz ctrum Analyzer - So RF 50 9	Keysight Spe L
1 o ෙළෙළ Peak Search	5.0 ms (40000 pts) TRACE 2.3 4.5 6 TYPE M WWWW DET P. NNNNN 24.956 7 GH2	Auron 136.0 status auron auro e: Log-Pwr i:>100/100 Mkr1 2	Avg Avg	SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 kHz ctrum Analyzer - So RF 50 9 24.956654	Res BW Keysight Spe L arker 1 dB/div
1 o Peak Search Next Pe	5.0 ms (40000 pts) TRACE 2.3 4.5 6 TYPE M WWWW DET P. NNNNN 24.956 7 GH2	Auron 136.0 status auron auro e: Log-Pwr i:>100/100	Avg Avg	SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 kHz ctrum Analyzer - So RF 50 9 24.956654	Res BW Reysight Spe arker 1 dB/div
1 o Peak Search Next Pe	5.0 ms (40000 pts) TRACE 2.3 4.5 6 TYPE M WWWW DET P. NNNNN 24.956 7 GH2	Auron 136.0 status auron auro e: Log-Pwr i:>100/100	Avg	SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 kHz ctrum Analyzer - So RF 50 9 24.956654	Keysight Spe L arker 1 dB/div
ا م Peak Search Next Pe Next Pk Rig	5.0 ms (40000 pts) TRACE 1 2 3 4 5 6 TYPE M WWW N DET P. NNNNN 24.956 7 GH2	Auron 136.0 status auron auro e: Log-Pwr i:>100/100	Avg	SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 kHz ctrum Analyzer - So RF 50 9 24.956654	Keysight Spe L arker 1 dB/div
1 o Peak Search Next Pe Next Pk Rig	5.0 ms (40000 pts) TRACE 1 2 3 4 5 6 TYPE M WWW N DET P. NNNNN 24.956 7 GH2	Auron 136.0 status auron auro e: Log-Pwr i:>100/100	Avg Avg	SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 kHz ctrum Analyzer - So RF 50 9 24.956654	Keysight Spe L arker 1 dB/div
ا م Peak Search Next Pe Next Pk Rig	5.0 ms (40000 pts)	Auron 136.0 status auron auro e: Log-Pwr i:>100/100	Avg Avg	SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 kHz ctrum Analyzer - So RF 50 9 24.956654	Keysight Spe L   arker 1 g 0.0 0.0
1 o Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De	5.0 ms (40000 pts)	Sweep 136.0           status           ALIGN AUTO           e: Log-Pwr           :>100/100	Avg	SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 kHz ctrum Analyzer - So RF 50 9 24.956654	Keysight Spe
1 o Peak Search Next Pe Next Pk Rig	5.0 ms (40000 pts)	ALIGN AUTO e: Log-Pwr :>100/100 MIKr1 2		SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 kHz ctrum Analyzer - So RF 50 9 24.956654	Keysight Spe
1 o Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De	5.0 ms (40000 pts)	Sweep 136.0           status           ALIGN AUTO           e: Log-Pwr           :>100/100		SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 kHz ctrum Analyzer - So RF 50 9 24.956654	Res BW Keysight Spe L arker 1 dB/div g a.0 .0 .0 .0 .0 .0 .0 .0 .0 .0
1 o Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De	5.0 ms (40000 pts)	ALIGN AUTO e: Log-Pwr :>100/100 MIKr1 2		SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 kHz ctrum Analyzer - So RF 50 9 24.956654	Res BW G Keysight Spe
1 o Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De	5.0 ms (40000 pts)	ALIGN AUTO e: Log-Pwr :>100/100 MIKr1 2		SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 kHz ctrum Analyzer - So RF 50 9 24.956654	Res BW Keysight Spe arker 1 g g g g g g g g g g g g g
1 o Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De	5.0 ms (40000 pts)	ALIGN AUTO e: Log-Pwr :>100/100 MIKr1 2		SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 kHz ctrum Analyzer - So RF 50 9 24.956654	Res BW Keysight Spe arker 1 g g g g g g g g g g g g g
1 o Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr→Ref L	5.0 ms (40000 pts)	Sweep 136.0		SENSE:INT	GHz NO: Fast G	2 AC 1653866 ( P IF	100 kHz	Keysight Spe L dB/div g dB/div g d d d d d d d d d d d d d d d d d d

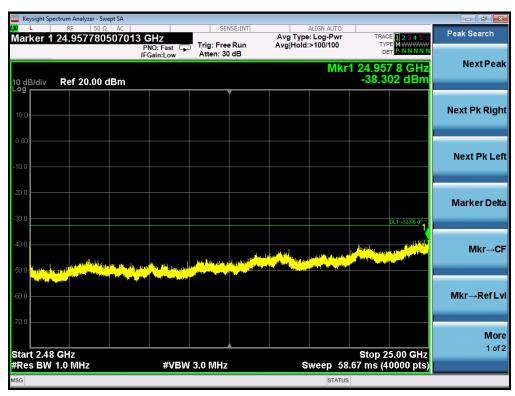
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Keysight Sp XI L	RF 50	Ω AC		SEN	SE:INT		ALIGN AUTO			
-	40.01550			Telev Free			e: Log-Pwr	TRAC TYP	E 1 2 3 4 5 6 E M WWWW	Peak Search
			PNO: Fast C IFGain:Low	Atten: 30						NextPea
0 dB/div	Ref 20.00	dBm					Mk	-58.5	16 MHz 93 dBm	HEALPER
.og					/					
10.0										Next Pk Rig
0.00										
10.0										Next Pk Le
-20.0										Marker Del
-30.0									DL1 -32.56 dBm	
40.0										
40.0										Mkr→C
-50.0										
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			#VBI	N 300 kHz		s	weep 93.3		0000 GHz 0000 pts)	1 of
#Res BW			#VBI	№ 300 kHz		S				1 of
Start 0.03 #Res BW ISG Keysight Sp	100 kHz ectrum Analyzer - S		#VBI				status			1 of
Keysight Sp L	100 kHz ectrum Analyzer - S	Ω AC	GHz	SEN	SE:INT	Avg Type	ALIGN AUTO	33 ms (4	0000 pts)	
Keysight Sp L	100 kHz ectrum Analyzer - S RF 50	Ω AC 993875 (		SEN	Run		ALIGN AUTO 2: Log-Pwr 2: 100/100	33 ms (4 TRAC TYP DE	0000 pts) E 1 2 3 4 5 6 E M WWWWW T P N N N N	Peak Search
FRes BW SG Keysight Sp C L Marker 1	100 kHz ectrum Analyzer - S RF 50 2.399754	Ω AC 993875 (	GHz PNO: Fast	SEN	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2: 100/100	33 ms (4	0000 pts)	Peak Search
Keysight Sp Keysight Sp L Marker 1 0 dB/div	100 kHz ectrum Analyzer - S RF 50	Ω AC 993875 (	GHz PNO: Fast	SEN	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2: 100/100	33 ms (4	0000 pts) E 1 2 3 4 5 6 E M WWWWW T P N N N N	Peak Search
Keysight Sp Keysight Sp L Marker 1 0 dB/div	100 kHz ectrum Analyzer - S RF 50 2.399754	Ω AC 993875 (	GHz PNO: Fast	SEN	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2: 100/100	33 ms (4	0000 pts)	Peak Search Next Pea
fRes BW sg Sg Sg Sg Sg Sg Sg Sg Sg Sg Sg Sg Sg Sg	100 kHz ectrum Analyzer - S RF 50 2.399754	Ω AC 993875 (	GHz PNO: Fast	SEN	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2: 100/100	33 ms (4	0000 pts)	Peak Search Next Pea
#Res BW ISG Keysight Sp L Marker 1 10 dB/div O dB/div 10 0 10 0	100 kHz ectrum Analyzer - S RF 50 2.399754	Ω AC 993875 (	GHz PNO: Fast	SEN	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2: 100/100	33 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig
#Res BW ISG Keysight Sp C L Marker 1 10 dB/div -0 0 0.00	100 kHz ectrum Analyzer - S RF 50 2.399754	Ω AC 993875 (	GHz PNO: Fast	SEN	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2: 100/100	33 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rigi
#Res BW ISG Keysight Sp C C Marker 1 10 0 0 dB/div 0 0 10 0 10 0 10 0	100 kHz ectrum Analyzer - S RF 50 2.399754	Ω AC 993875 (	GHz PNO: Fast	SEN	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2: 100/100	33 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig
#Res BW ISG Keysight Sp C C Marker 1 10 0 0 dB/div 0 0 10 0 10 0 10 0	100 kHz ectrum Analyzer - S RF 50 2.399754	Ω AC 993875 (	GHz PNO: Fast	SEN	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2: 100/100	33 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le
#Res BW           ISG           Keysight Sp           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	100 kHz ectrum Analyzer - S RF 50 2.399754	Ω AC 993875 (	GHz PNO: Fast	SEN	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2: 100/100	33 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le
#Res BW           SG           Keysight Sp           Ø           Jarker 1           Ø           Ø           Jarker 1           Ø           Ø           Ø           Jarker 1           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø	100 kHz ectrum Analyzer - S RF 50 2.399754	Ω AC 993875 (	GHz PNO: Fast	SEN	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2: 100/100	33 ms (4	0000 pts) 1 2 3 4 5 6 E M 1 P NNNN 55 GHz 40 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le
#Res BW           Keysight Sp           Marker 1           0 dB/div           0 0.00	100 kHz ectrum Analyzer - S RF 50 2.399754	Ω AC 993875 (	GHz PNO: Fast	SEN	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2: 100/100	33 ms (4	0000 pts) 1 2 3 4 5 6 E M 1 P NNNN 55 GHz 40 dBm	Peak Search Next Pea Next Pk Righ Next Pk Le
#Res BW           Keysight Sp           Marker 1           0 dB/div           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0	100 kHz ectrum Analyzer - S RF 50 2.399754	Ω AC 993875 (	GHz PNO: Fast	SEN	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2: 100/100	33 ms (4	0000 pts) 1 2 3 4 5 6 E M 1 P NNNN 55 GHz 40 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le
#Res BW           Keysight Sp           Marker 1           Marker 1           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00	100 kHz ectrum Analyzer - S RF 50 2.3997545 Ref 20.00	Ω AC   993875 ( dBm	GHZ PNO: Fast ⊂ IFGain:Low	SEN Trig: Free Atten: 30	Run dB	Avg Type Avg Hold:	align AUTO           align AUTO           :: Log-Pwr           >100/100	33 ms (4	0000 pts) 1 2 3 4 5 6 E M 1 P NNNN 55 GHz 40 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
#Res BW           Keysight Sp           Marker 1           Marker 1           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00           0.00	100 kHz ectrum Analyzer - S RF 50 2.399754	Ω AC   993875 ( dBm	GHZ PNO: Fast ⊂ IFGain:Low	SEN Trig: Free Atten: 30	Run dB	Avg Type Avg Hold:	align AUTO           align AUTO           :: Log-Pwr           >100/100	33 ms (4	0000 pts) 1 2 3 4 5 6 E M 1 P NNNN 55 GHz 40 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr-C
#Res BW           Iss           Keysight Sp.           X         1           Marker 1           10         0           0         0           0         0           0         0           0         0           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10         -99           10	100 kHz ectrum Analyzer - S RF 50 2.3997545 Ref 20.00	Ω AC   993875 ( dBm	GHZ PNO: Fast ⊂ IFGain:Low	SEN Trig: Free Atten: 30	Run dB	Avg Type Avg Hold:	align AUTO           align AUTO           :: Log-Pwr           >100/100	33 ms (4	0000 pts) 1 2 3 4 5 6 E M 1 P NNNN 55 GHz 40 dBm	Peak Search Next Pea Next Pk Righ Next Pk Le Marker Def MkrC
#Res BW           Keysight Sp           Marker 1           Marker 1           0 dB/div           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0	100 kHz ectrum Analyzer - S RF - S0 2.3997545 Ref 20.00	Ω AC   993875 ( dBm	GHZ PNO: Fast ⊂ IFGain:Low	SEN Trig: Free Atten: 30	Run dB	Avg Type Avg Hold:	Status         31.0           ALIGN AUTO         31.0           STATUS         31.0           Mkr1         31.0           Mkr1         31.0	33 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→Ref L
#Res         BW           Keysight Sp         Image: Sp           Marker 1         Image: Sp           0         B/div           0         B/div           0         B/div           0         Image: Sp           10         Image: Sp           20         Image: Sp	100 kHz ectrum Analyzer - 5 RF 50 2.3997544 Ref 20.00	Ω AC   993875 ( dBm	SHz PNO: Fast C IFGain:Low	SEN Trig: Free Atten: 30	Run dB	Avg Type Avg Hold:	Status         31.0           ALIGN AUTO         31.0           STATUS         31.0           Mkr1         31.0           Mkr1         31.0	33 ms (4	0000 pts)	Peak Search Next Pea Next Pk Righ Next Pk Le Marker Def Mkr-C

# 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

Keysight Sp	ectrum Analyzer - Swept S		CEN	SE:INT		ALIGN AUTO			
Marker 1	40.01550038	8 MHz PNO: Fast	Trig: Free	Run	Avg Type Avg Hold:	: Log-Pwr	TYP	E 1 2 3 4 5 6 E M WWWWW T P N N N N N	Peak Search
10 dB/div	Ref 20.00 dB	IFGain:Low	Atten: 30	dB		М	kr1 40.0		Next Peak
10.0									Next Pk Righ
-10.0									Next Pk Let
20.0								DL1 -33.06 dBm	Marker Delt
40.0								DL1-33.06 dBm	Mkr→C
50.0 60.0	and the first state of the second state of the	na 1999 la cup de provinsi la cue popora de provinsi Ann de popora de provinsi de provinsi de la cue de primero de primero de primero de primero de primero de prime			na) ) kan se tifte til Napora Angenerationer och har se ta se t			and a state of the state of	Mkr→RefL
-70.0							Oton 44		<b>Mor</b> 1 of
Start 0.03 #Res BW		#VB	V 300 kHz		S	weep 93	Stop 1.0 3.33 ms (4	0000 GHz 0000 pts)	
ISG						STATUS	5		



🚾 Keysight Sp 📈 L	RF 50 Ω	2 AC		SEN	ISE:INT		ALIGN AUTO			
	2.3719992	99983 G	PNO: Fast 🖕		Run		e: Log-Pwr	TRAC TYP	E 1 2 3 4 5 6 E M WWWW T P N N N N N	Peak Search
			FGain:Low	Atten: 30	dB		Mkr1	2.371 9	99 GHz	NextPea
0 dB/div	Ref 20.00	dBm	1					-53.6	77 dBm	
40.0										Next Pk Righ
10.0										Ū
0.00										Next Pk Lef
10.0										NEXT PK LE
20.0										
30.0										Marker Delt
									DL1 -33.06 dBm	
40.0										Mkr→C
50.0										
60.0	and a stress of the second					uli ali di likti ang	tele-file-in-potibilit	land and a still the line	uth based on the state	Mkr→RefL
70.0	ang shells the children for Difference	de la Gradiene esta de la 1944		a matagang pinan katalan karatan		a li ha ƙalan ƙafa ƙafa ƙafa ƙafa ƙafa	ر الانتخاب والانتخاب والتلقي و الانتخاب والانتخاب والتلقي والتلقي والتلكي والتلكي والتلكي والتلكي والتلكي والت	HALF DESCRIPTION		
										Mor
Start 1.00			#\/B\/	( 300 kHz			ween 136		1000 GHz	1 01
	000 GHz 100 kHz		#VBW	/ 300 kHz		S	weep 136			
#Res BW	100 kHz		#VBW				STATUS			
Res BW SG Keysight Sp	100 kHz	AC 986425	GHz	SEM		Avg Type	STATUS ALIGN AUTO e: Log-Pwr	5.0 ms (4	0000 pts) ≊ 112 3 4 5 6	
Res BW SG Keysight Sp L	2 100 kHz pectrum Analyzer - Sw RF 50 S	AC 986425		SEM	Run		ALIGN AUTO 2: Log-Pwr 2:>100/100	0.0 ms (4	20000 pts)	Peak Search
Res BW sg Keysight Sp L Aarker 1 0 dB/div	2 100 kHz pectrum Analyzer - Sw RF 50 S	986425	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2:>100/100	3.0 ms (4	0000 pts) ≊ 112 3 4 5 6	Peak Search
Keysight Sp Keysight Sp L Aarker 1 0 dB/div	2 100 kHz vectrum Analyzer - Sw RF 50 Ω 1 24.118456	986425	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2:>100/100	3.0 ms (4	0000 pts)	Peak Search Next Pea
Keysight Sp Keysight Sp L Aarker 1 0 dB/div	2 100 kHz vectrum Analyzer - Sw RF 50 Ω 1 24.118456	986425	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2:>100/100	3.0 ms (4	0000 pts)	Peak Search Next Pea
fRes BW sg Keysight Sp Q L Aarker 1 0 dB/div	2 100 kHz vectrum Analyzer - Sw RF 50 Ω 1 24.118456	986425	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2:>100/100	3.0 ms (4	0000 pts)	Peak Search Next Pea
Kes BW sc Keysight Sp L Marker 1 10.0	2 100 kHz vectrum Analyzer - Sw RF 50 Ω 1 24.118456	986425	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2:>100/100	3.0 ms (4	0000 pts)	Peak Search Next Pea
Keysight Sp Keysight Sp C C C C C C C C C C C C C C C C C C C	2 100 kHz vectrum Analyzer - Sw RF 50 Ω 1 24.118456	986425	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2:>100/100	3.0 ms (4	0000 pts)	Peak Search Next Pea
#Res BW           SG           Keysight Sp           0           D           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	2 100 kHz vectrum Analyzer - Sw RF 50 Ω 1 24.118456	986425	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2:>100/100	3.0 ms (4	23456 E II 23456 E IV P NNNN 85GHz 27 dBm	Peak Search Next Pea Next Pk Righ
#Res BW           SG           Keysight Sp           Ø           Aarker 1           0 dB/div           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0	2 100 kHz vectrum Analyzer - Sw RF 50 Ω 1 24.118456	986425	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2:>100/100	3.0 ms (4	0000 pts)	Peak Search Next Pea Next Pk Righ
#Res BW           SG           Keysight Sp           Ø           Aarker 1           0 dB/div           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0	2 100 kHz vectrum Analyzer - Sw RF 50 Ω 1 24.118456	986425	GHz PNO: Fast	Trig: Free Atten: 30	Run	Avg Type	ALIGN AUTO 2: Log-Pwr 2:>100/100	3.0 ms (4	2 3 4 5 6 2 3 4 5 6 7 P NNNN 8 5 GHz 27 dBm	Peak Search Next Pea Next Pk Righ Next Pk Le
#Res         BW           Iss         Iss           Keysight Sp         Iss           Arrker 1         Iss           0         dB/div           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           10         0           10         0           10         0           10         0           10         0           10         0           10         0           10         0           10         0           10         0           10         0           10         0           10         0           10         0           10         0           10         0           10         0	2 100 kHz vectrum Analyzer - Sw RF 50 Ω 1 24.118456	986425	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr 2:>100/100	3.0 ms (4	2 3 4 5 6 2 3 4 5 6 7 P NNNN 8 5 GHz 27 dBm	Peak Search Next Pea Next Pk Righ Next Pk Le
Keysight Sp Keysight Sp L Marker 1 10 dB/div	2 100 kHz vectrum Analyzer - Sw RF 50 Ω 1 24.118456	986425	GHz PNO: Fast	Trig: Free Atten: 30	e Run dB	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr 2:>100/100	3.0 ms (4	2 3 4 5 6 2 3 4 5 6 7 P NNNN 8 5 GHz 27 dBm	Peak Search Next Pea Next Pk Righ Next Pk Le Marker Delt Mkr->C
#Res         BW           Issa         Issa           Keysight Sp         Marker 1           Marker 1         Marker 1           10.0         O           20.0         O           10.0         O           30.0         O           40.0         O           50.0         Pather           State         Issa	2 100 kHz vectrum Analyzer - Sw RF 50 Ω 1 24.118456	986425	GHz PNO: Fast	Trig: Free Atten: 30	e Run dB	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr 2:>100/100	5.0 ms (4	2 3 4 5 6 2 3 4 5 6 7 P NNNN 8 5 GHz 27 dBm	Peak Search Next Pea Next Pk Righ Next Pk Lei Marker Delt MkrC
#Res         BW           Iss         Iss           Keysight Sp         Iss           Aarker 1         Iss           0         dB/div           0         dB/div	2 100 kHz vectrum Analyzer - Sw RF 50 Ω 1 24.118456	986425	GHz PNO: Fast	Trig: Free Atten: 30	e Run dB	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr 2:>100/100	5.0 ms (4	2 3 4 5 6 2 3 4 5 6 7 P NNNN 8 5 GHz 27 dBm	Peak Search Next Pea Next Pk Righ Next Pk Le Marker Delt Mkr->C Mkr->Ref Lu
#Res         BW           Keysight Sp         Image: Spin Spin Spin Spin Spin Spin Spin Spin	2 100 kHz	986425	GHZ PNO: Fast Gain:Low	Trig: Free Atten: 30	e Run dB	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr 2:>100/100	5.0 ms (4	0000 pts)	1 of Peak Search Next Pea Next Pk Righ Next Pk Lef Marker Delt Mkr→Cl Mkr→Ref Lv Mor 1 of



### 6. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

#### **6.1 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.

### 6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 4.2.

#### 6.3 LIMITS AND MEASUREMENT RESULT

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11b with data rate 1

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	1.857	8	Pass
Middle Channel	1.478	8	Pass
High Channel	0.113	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11g with data rate 6

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-4.166	8	Pass
Middle Channel	-2.854	8	Pass
High Channel	-4.698	8	Pass



TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11n 20 with data rate 6.5

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-3.625	8	Pass
Middle Channel	-3.814	8	Pass
High Channel	-5.019	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11n 40 with data rate 13.5

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-7.685	8	Pass
Middle Channel	-7.543	8	Pass
High Channel	-8.117	8	Pass





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

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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL





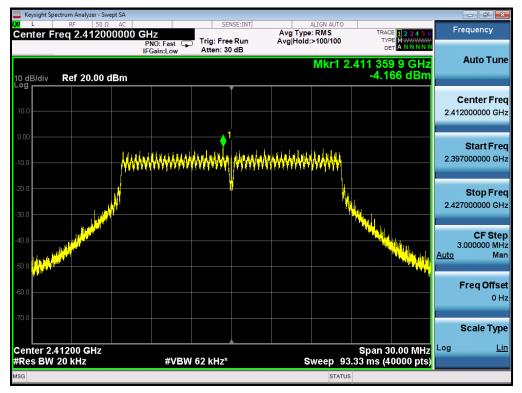


### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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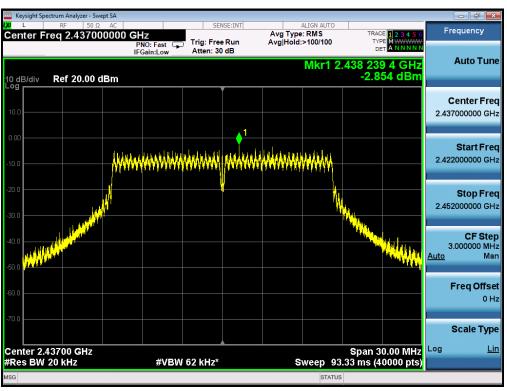
### 802.11g TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL







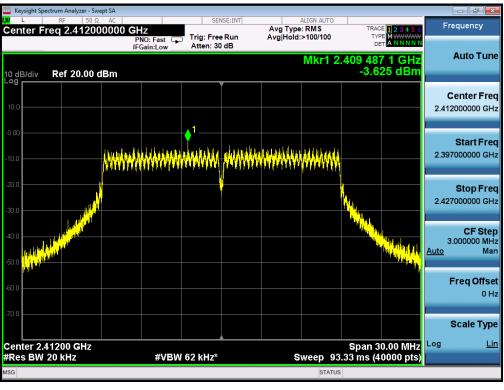


### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

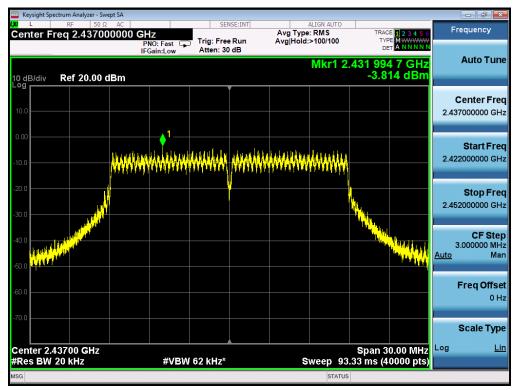


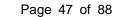


## 802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

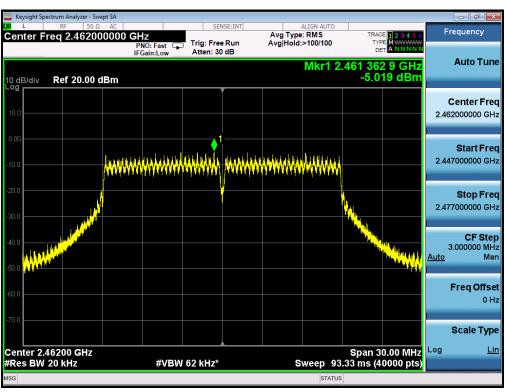
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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL





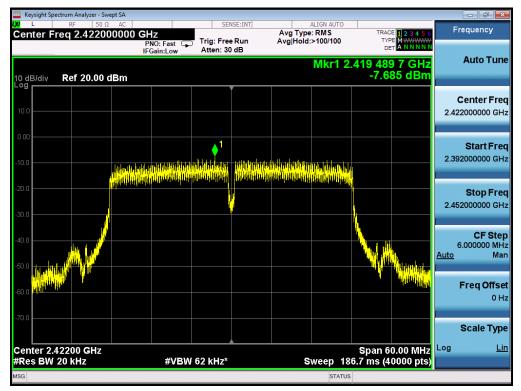




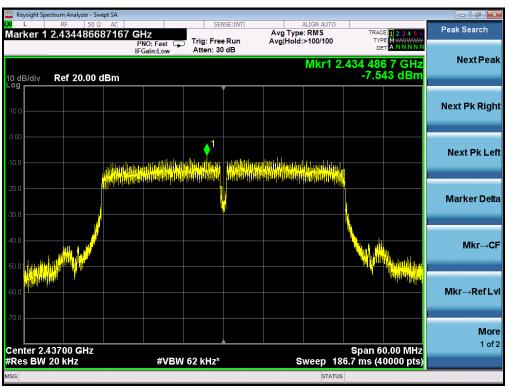
#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

802.11n 40 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

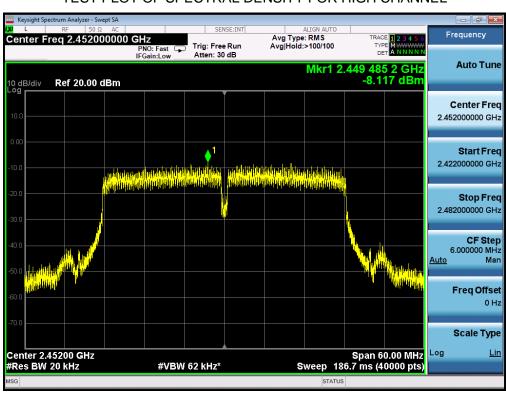






### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL