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FCC Test Report

Report No.: AGC01600180201FE05

FCC ID	:	SMC-SA
APPLICATION PURPOSE	ė	Original Equipment
PRODUCT DESIGNATION	:	JMGO Smart Home Theater
BRAND NAME	-	N/A
MODEL NAME	:	Refer to page 5
CLIENT	:	SHENZHEN HOLATEK CO., LTD
DATE OF ISSUE	÷	Mar. 31, 2018
STANDARD(S) TEST PROCEDURE(S)	¢	FCC Part 15.247
REPORT VERSION	:	V1.0



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	Mar. 31, 2018	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	SHENZHEN HOLATEK CO., LTD
Address	Rm.1001, Unit4, Bld.B, Kexing Science Park, Keyuan Road, Nashan District, Shenzhen
Manufacturer	BYD Precision Manufacturing., Ltd
Address	NO.3001, Baohe Road, Baolong Industrial Town, Longgang Shenzhen. china
Product Designation	JMGO Smart Home Theater
Brand Name	N/A
Test Model	SA
Series Model	SC, SA Pro, SC Pro, SCC, SAA, S2, S3, S4, S5, S6, S7, S8, S9, S20, S30, S40, S50, S60, S70, S80, S90, S21, S22, S23, S24, S25, S26, S27, S28, S29, S31, S32, S33, S34, S35, S36, S37, S38, S39, T11, T12, T13, T14, T15, T16, T17, T18, T19, T21, T22, T23, T24, T25, T26, T27, T28, T29, T31, T32, T33, T34, T35, T36, T37, T38, T39, S200, S300, S400, S500, S600, S700, S800, S900, S201, S202, S203, S204, S205, S206, S207, S208, S209, S301, S302, S303, S304, S305, S306, S307, S308, S309, T101, T102, T103, T104, T105, T106, T107, T108, T109, T201, T202, T203, T204, T205, T206, T207, T208, T209, T301, T302, T303, T304, T305, T306, T307, ST308, T309
Model Difference	All are the same except the model name.
Date of test	Mar. 11, 2018 to Mar. 30, 2018
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

We hereby certify that:

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

Tested by

Max 2ha

Max Zhang(Zhang Yi)

Mar. 31, 2018

Reviewed by

BONG Nie

Bart Xie(Xie Xiaobin))

Mar. 31, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "JMGO Smart Home Theater". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.412 GHz~2.462GHz
Output Power	IEEE 802.11b:16.81dBm; IEEE 802.11g:13.66dBm; IEEE 802.11n(20):12.54dBm; IEEE 802.11n(40):9.24dBm
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	11 for 20MHZ bandwidth system7 for 40MHZ bandwidth system
Hardware Version	VerC
Software Version	1.0.18
Antenna Designation	Internal antenna
Number of transmit chain	1
Antenna Gain	3dBi
Power Supply	AC120V/60Hz

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
100	1	2412 MHZ
. 5.2	2	2417 MHZ
1.1	3	2422 MHZ
60 .00	4	2427 MHZ
	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
- 0° - 0'	7	2442 MHZ
	8	2447 MHZ
A BE AN	9	2452 MHZ
1 . C. Y	10	2457 MHZ
100	11	2462 MHZ

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





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2.3. IEEE 802.11N MODULATION SCHEME

MCS			_		NCI	BPS	NDI	BPS		ata Mbps)
Index	Nss	Modulation	R	NBPSC		1		1	800	nsGl
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

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

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

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

2.5. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.





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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in

- measurement" (GUM) published by CISPR and ANSI.
- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB





4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal operating
Transm Transm	hit by 802.11b with Date rate (1/2/5.5/11) hit by 802.11g with Date rate (6/9/12/18/24/36/48/54) hit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65) hit 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.





5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:

EUT

5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
dċ	JMGO Smart Home Theater	SA	SMC-SA	EUT

5.3. SUMMARY OF TEST RESULTS

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





6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP LAB CODE	600153-0
Designation Number	CN5028
FCC Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Power sensor	Aglient	U2021XA	MY54110007	Sep.21, 2017	Sep.20, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Active loop antenna (9K-30MHz)	A.H.	SAS-562B	N/A	Mar.01, 2016	Feb.28, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.18, 2017	May.17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018





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7. OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

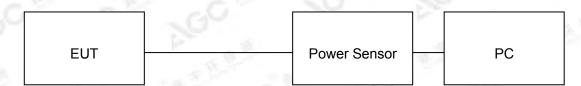
For average power test:

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

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

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

AVERAGE POWER SETUP







7.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	OUTPUT POWER	00	200
TEST MODE	802.11b with data rate 1		the set

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	16.54	30	Pass
2.437	16.81	30	Pass
2.462	16.28	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	13.45	30	Pass
2.437	13.28	30	Pass
2.462	13.66	30	Pass

TEST ITEM	OUTPUT POWER		- 8 B
TEST MODE	802.11n 20 with data rate 6.5	1200	12

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	12.11	30	Pass
2.437	12.34	30	Pass
2.462	12.54	30	Pass

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TEST ITEM	OUTPUT POWER	1.10		
TEST MODE	802.11n 40 with data rate 13	.5 60 60	200	
Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
2.422	9.14	30	Pass	
2.437	9.04	30	Pass	
2.452	9.24	30	Pass	



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8.6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

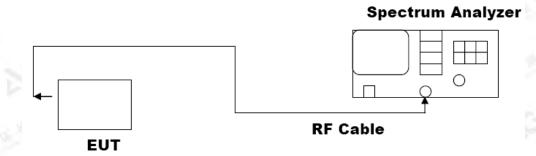
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator

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

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

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







8.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH	1	
TEST MODE	802.11b with data rate 11	0	6

LIMITS AND MEASUREMENT RESULT

		Applicable Limits		
Applicable Limits	Test Data (MHz)		Criteria	
~GU	Low Channel	10.34	PASS	
>500KHZ	Middle Channel	9.753	PASS	
1.5	High Channel	10.40	PASS	

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

	LIMITS AND MEASUR	REMENT RESULT	
Annliaghta Limita		Applicable Limits	
Applicable Limits	Test Data	(MHz)	Criteria
200	Low Channel	16.47	PASS
>500KHZ	Middle Channel	16.48	PASS
	High Channel	16.45	PASS

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

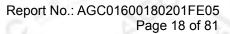
	LIMITS AND MEASUR	REMENT RESULT	
Annliaghta Limite		Applicable Limits	
Applicable Limits	Test Data	(MHz)	Criteria
1	Low Channel	17.57	PASS
>500KHZ	Middle Channel	17.56	PASS
1000	High Channel	17.57	PASS



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TEST ITEM	6DB BANDWIDTH	3. 13	-
TEST MODE	802.11n 40 with data rat	e 135	0
and the second	Q. C.		10 II.
	LIMITS AND MEASU	REMENT RESULT	
Annlinghin Limite		Applicable Limits	
Applicable Limits	Test Data	a (MHz)	Criteria
~0×	Low Channel	36.31	PASS
>500KHZ	Middle Channel	36.29	PASS
	High Channel	36.08	PASS









802.11b TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL





L RF 50 Ω AC nter Freq 2.46200000	, OH 2	SENSE:INT ter Freq: 2.462000000 : Free Run Avg		Radio Sto	d: None	Frequency
		en: 30 dB	Hold:>10/10	Radio De	vice: BTS	
dB/div Ref 20.00 dB	'n		Mk		056 GHz 985 dBm	
9		1				Center Fre
	and the second s		- and an and the second	<u> </u>		2.462000000 GH
				- Arakana		
				- www	and the second second	
0						
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5						
nter 2.462 GHz es BW 100 kHz		#VBW 300 kHz			an 30 MHz 3.733 ms	CF Ste 3.000000 MH
Occupied Bandwid	th	Total Powe	r 21.	8 dBm		<u>Auto</u> Ma
	4.877 MHz					Freq Offs
Transmit Freq Error	-3.174 kHz	% of OBW I	Power 9	9.00 %		0 H
x dB Bandwidth	10.40 MHz	x dB	-6	.00 dB		

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

802.11g TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



Keysight Spect	trum Analyzer - Occupied	BW						
<mark>⋈</mark> Center Fre	RF 50 Ω AC eq 2.4370000		Center Freq: 2.43 Trig: Free Run		ALIGN AUT	O Radio Sto	i: None	Peak Search
		#IFGain:Low	#Atten: 30 dB			Radio De	vice: BTS	
15 dB/div	Ref 20.00 d	Зm			M	kr1 2.44 -2.02	198 GHz 263 dBm	
Log 5.00		an harrow	mmmm when	Arrana fra	Annala			
-10.0 -25.0						hornor		
-40.0 -55.0							www.www.	
-70.0 -85.0								
-100								
Center 2.4 #Res BW			#VBW 30				an 30 MHz	
#Res DW			#VBW 30			Sweep	3.733 ms	
Occup	ied Bandwi			Power	15	5.6 dBm		
		6.437 M	ĦΖ					
Transm	it Freq Error	10.424	kHz % of	OBW Powe	er	99.00 %		
x dB Ba	ndwidth	16.48 M	/IHz x dB		-	6.00 dB		

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





L	RF 50 Ω AC			NSE:INT		ALIGN AUTO	Radio Sto	l. Nama	Frequenc	₽ <mark>●</mark> >
nter Fre	eq 2.46200000	GHz	Trig: Free		Avg Hold:	:>10/10	Radio Sto	a: None		
		#IFGain:Low	#Atten: 3	0 dB			Radio De	vice: BTS		
dB/div	Ref 20.00 dBn	1				Mkı		573 GHz 199 dBm		
		1							Center	Fre
0	por and	mharmon	mmont	frendurant	mmenhow	Ann Anna			2.46200000	
o 	الممريد المراجع)				how we want			
	monward						And a second second			
V1/W-11/P*								my now were		
•										
₀										
o										
5										
	162 GHz 100 kHz		#VE	3W 300 k	Hz			an 30 MHz 3.733 ms	3.00000	
Occup	ied Bandwidt	h		Total P	ower	15.	8 dBm		<u>Auto</u>	Ma
	17	.612 M	Hz						Freq C	Offs
Transm	nit Freq Error	-7.230	kHz	% of O	3W Powe	er 99	9.00 %			0 H
r dB Ba	andwidth	17.57	MHz	x dB		-6	.00 dB			
		111011		A GB						

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

802.11n (40) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL







TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.
- **Note:** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

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

The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

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





Peak Search Avg Type: Log-Pwi Avg|Hold:>100/100 491012275 MHz PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB **Next Pea** Mkr1 910.491 MHz -59.377 dBm Ref 20.00 dBm I0 dB/div Next Pk Right Next Pk Left Marker Delta Mkr→CF 1 Mkr→RefLvi More 1 of 2 Start 0.0300 GHz #Res BW 100 kHz Stop 1.0000 GHz Sweep 93.33 ms (40000 pts) #VBW 300 kHz Marker 1 2.399964999125 GHz PNO: Fast C IFGain:Low Peak Search Avg Type: Log-Pwr Avg|Hold:>100/100 2345 Trig: Free Run #Atten: 30 dB Next Peak Mkr1 2.399 965 GHz -40.446 dBm Ref 20.00 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLv More Start 1.0000 GHz #Res BW 100 kHz 1 of 2 Stop 2.4000 GHz 136.0 ms (40000 pts) #VBW 300 kHz Sweep

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

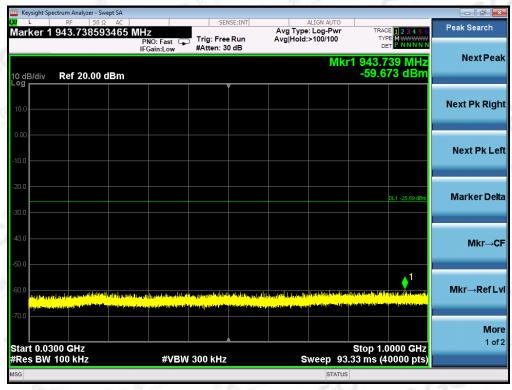
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



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U L	trum Analyzer - Swept S RF 50 Ω A 2.383794594		SE	NSE:INT		ALIGN AUTO	TRAC	E 1 2 3 4 5 6	Peak Search
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Res BW 1	00 kHz		VBW 300 kHz		S		6.0 ms (4		
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Res BW 1 Gamma Control	00 kHz trum Analyzer - Swept S RF 50 Ω A 24.944270269	5A AC 9257 GHz PNO: Fas IFGain:Lo	st 😱 Trig: Fre	NSE:INT	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100 MIKr	6.0 ms (4	0000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De
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Res BW 1 3G Keysight Spect Iarker 1 2 0 dB/div 9 10.0 90.00	00 kHz trum Analyzer - Swept S RF 50 Ω A 24.944270269	5A AC 9257 GHz PNO: Fas IFGain:Lo	st 😱 Trig: Fre	NSE:INT	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr >100/100 MKr	6.0 ms (4	0000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Li Marker De Mkr→t Mkr→Ref L
Res BW 1 G G G G G G G G G G G G G G G G G G G	00 kHz	5A AC 9257 GHz PNO: Fas IFGain:Lo	st 😱 Trig: Fre	NSE:INT	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr >100/100 MKr	6.0 ms (4	0000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Li Marker De Mkr→t
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Marker 1	778.4222		PNO: Fast IFGain:Low	Trig: Free R #Atten: 30 d	un Avg l	Type: Log-Pwr Hold:>100/100	TYPE DET	123456 M PNNNNN	Peak Search
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Res BW			#VBW	300 kHz		Sweep 93	Stop 1.00 .33 ms (40	000 GHz 000 pts)	
Res BW	100 KHz ectrum Analyzer -		#VBW			STATUS	Stop 1.00 33 ms (40	000 GHz 000 pts)	- 6
Res BW SG Keysight Sp	100 KHz ectrum Analyzer -	Ω AC	GHz	SENSE	Avg un Avg l		33 ms (40	000 pts)	Peak Search
Res BW SG Keysight Sp	100 KHz ectrum Analyzer - RF 50	Ω AC 496862		SENSE	Avg un Avg l	ALIGN AUTO Type: Log-Pwr Hold:>100/100	33 ms (40 TRACE TYPE DET 2.379 87	000 pts)	Peak Search
Res BW sg Keysight Sp L Iarker 1	100 KHz ectrum Analyzer - RF 50	496862	GHz PNO: Fast C	SENSE	Avg un Avg l	ALIGN AUTO Type: Log-Pwr Hold:>100/100	33 ms (40 TRACE TYPE DET 2.379 87	000 pts)	Peak Search
Res BW sg Keysight Sp L Iarker 1 0 dB/div	100 kHz ectrum Analyzer - RF 50 2.379874	496862	GHz PNO: Fast C	SENSE	Avg un Avg l	ALIGN AUTO Type: Log-Pwr Hold:>100/100	33 ms (40 TRACE TYPE DET 2.379 87	000 pts)	Peak Search Next Pea
Res BW	100 kHz ectrum Analyzer - RF 50 2.379874	496862	GHz PNO: Fast C	SENSE	Avg un Avg l	ALIGN AUTO Type: Log-Pwr Hold:>100/100	33 ms (40 TRACE TYPE DET 2.379 87	000 pts)	Peak Search Next Pea
Res BW sa a Keysight Sp b L a	100 kHz ectrum Analyzer - RF 50 2.379874	496862	GHz PNO: Fast C	SENSE	Avg un Avg l	ALIGN AUTO Type: Log-Pwr Hold:>100/100	33 ms (40 TRACE TYPE DET 2.379 87	000 pts)	Peak Search Next Pea Next Pk Rig
Res BW sa a Keysight Sp b L a	100 kHz ectrum Analyzer - RF 50 2.379874	496862	GHz PNO: Fast C	SENSE	Avg un Avg l	ALIGN AUTO Type: Log-Pwr Hold:>100/100	33 ms (40 TRACE TYPE DET 2.379 87	000 pts)	Peak Search Next Pea Next Pk Rig
Res BW sa a Keysight Sp b L a	100 kHz ectrum Analyzer - RF 50 2.379874	496862	GHz PNO: Fast C	SENSE	Avg un Avg l	ALIGN AUTO Type: Log-Pwr Hold:>100/100	33 ms (40 TRACE DET 2.379 87 -55.95	000 pts)	
Res BW SG Keysight Sp L Iarker 1 0 dB/div 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0	100 kHz ectrum Analyzer - RF 50 2.379874	496862	GHz PNO: Fast C	SENSE	Avg un Avg l	ALIGN AUTO Type: Log-Pwr Hold:>100/100	33 ms (40 TRACE DET 2.379 87 -55.95	000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De
Res BW SG Keysight Sp L Iarker 1 0 dB/div 0 dB/div </td <td>100 kHz ectrum Analyzer - RF 50 2.379874</td> <td>496862</td> <td>GHz PNO: Fast C</td> <td>SENSE</td> <td>Avg un Avg l</td> <td>ALIGN AUTO Type: Log-Pwr Hold:>100/100</td> <td>33 ms (40 TRACE DET 2.379 87 -55.95</td> <td>000 pts)</td> <td>Peak Search Next Pea Next Pk Rig Next Pk Le</td>	100 kHz ectrum Analyzer - RF 50 2.379874	496862	GHz PNO: Fast C	SENSE	Avg un Avg l	ALIGN AUTO Type: Log-Pwr Hold:>100/100	33 ms (40 TRACE DET 2.379 87 -55.95	000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW sa keysight Sp larker 1 0 dB/div 0 0	100 kHz ectrum Analyzer - RF 50 2.379874 Ref 20.00	0 dBm	CHZ PNO: Fast IFGain:Low	SENSE Trig: Free R #Atten: 30 d	Avg Avg P	ALIGN AUTO Type: Log-Pwr Hold:>100/100	33 ms (40 TRACE DET 2.379 87 -55.95	000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→C
Res BW SG SG Keysight Sp Iarker 1 Iarker 1 0	100 kHz ectrum Analyzer - RF 50 2.379874 Ref 20.00	0 dBm	CHZ PNO: Fast IFGain:Low	SENSE Trig: Free R #Atten: 30 d	Avg un Avg l	ALIGN AUTO Type: Log-Pwr Hold:>100/100	33 ms (40 TRACE DET 2.379 87 -55.95	000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→C
Res BW 33 Keysight Sp L Iarker 1 0 dB/div 0 dB/div </td <td>100 kHz ectrum Analyzer - RF 50 2.379874 Ref 20.00</td> <td>0 dBm</td> <td>CHZ PNO: Fast IFGain:Low</td> <td>SENSE Trig: Free R #Atten: 30 d</td> <td>Avg Avg P</td> <td>ALIGN AUTO Type: Log-Pwr Hold:>100/100</td> <td>33 ms (40 TRACE DET 2.379 87 -55.95</td> <td>000 pts)</td> <td>Peak Search Next Pea Next Pk Rig Next Pk Le Marker De</td>	100 kHz ectrum Analyzer - RF 50 2.379874 Ref 20.00	0 dBm	CHZ PNO: Fast IFGain:Low	SENSE Trig: Free R #Atten: 30 d	Avg Avg P	ALIGN AUTO Type: Log-Pwr Hold:>100/100	33 ms (40 TRACE DET 2.379 87 -55.95	000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De

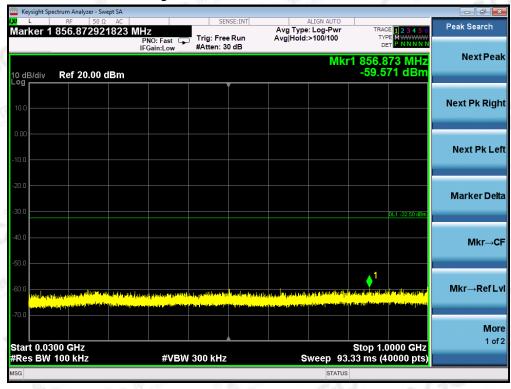
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN HIGH CHANNEL

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



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		#VBW	/ 300 kHz		ę				
						STATUS			
rum Analyzer - Swept		_							
rum Analyzer - Swept RF 50 Ω 24.43763635	AC 53409 G	Hz				ALIGN AUTO	TRACI		Peak Search
RF 50 Ω	AC 53409 G PN	Hz NO: Fast G Gain:Low		e Run		e: Log-Pwr d:>100/100	DE		Peak Search
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run		e: Log-Pwr d:>100/100	DE 24.437	6 GHz	
RF 50 Ω	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run		e: Log-Pwr d:>100/100	DE 24.437		Peak Search
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run		e: Log-Pwr d:>100/100	DE 24.437	6 GHz	Peak Search
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run		e: Log-Pwr d:>100/100	DE 24.437	6 GHz	Peak Search Next Pe
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run		e: Log-Pwr d:>100/100	DE 24.437	6 GHz	Peak Search Next Pe Next Pk Rig
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run		e: Log-Pwr d:>100/100	DE 24.437	6 GHz	Peak Search Next Pe
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run		e: Log-Pwr d:>100/100	DE 24.437	6 GHz	Peak Search Next Pe Next Pk Rig
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run		e: Log-Pwr d:>100/100	24.437	6 GHz	Peak Search Next Pe Next Pk Rig Next Pk Li
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run		e: Log-Pwr d:>100/100	24.437	6 GHz	Peak Search Next Pe Next Pk Rig
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run		e: Log-Pwr d:>100/100	24.437	6 GHz	Peak Search Next Pe Next Pk Rig Next Pk Li
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run 0 dB	Avg Hoid	e: Log-Pwr d:>100/100	24.437	6 GHz	Peak Search Next Pe Next Pk Rig Next Pk Li
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run 0 dB	Avg Hoid	e: Log-Pwr d:>100/100	24.437	6 GHz	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run 0 dB	Avg Hoid	e: Log-Pwr d:>100/100	24.437	6 GHz	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr→0
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run 0 dB	Avg Hoid	e: Log-Pwr d:>100/100	24.437	6 GHz	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run 0 dB	Avg Hoid	e: Log-Pwr d:>100/100	24.437	6 GHz	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr→0
RF 50 Ω 24.43763635	AC 53409 G PN IFG	NO: Fast 🔾	Trig: Free	e Run 0 dB	Avg Hoid	e: Log-Pwr d:>100/100	24.437	6 GHz	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr→Ref L
RF 50 Ω 24.43763635	AC 53409 G PN IFG	In the state of th	Trig: Free	e Run 0 dB	Avg Hoid	e: Log-Pwr d:>100/100	24.437 -38.33	01 -32:00 gHz	Peak Search Next Pe Next Pk Rig Next Pk Li Marker De Mkr→t
		0 GHz					Ref 20.00 dBm Image: Second control of the se	Ref 20.00 dBm -38.72 Image: Stop 2.4 Image: Stop 2.4 0 GHz #VEW 300 KHz Sweep 136.0 ms (4	Image: Stop 2.4000 GHz 00 KHz

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U L	RF 5			SEN	SE:INT		ALIGN AUTO			Peak Search
larker 1	913.1828	829571 M	PNO: Fast	Trig: Free			e: Log-Pwr :>100/100	TRAI TY	CE 1 2 3 4 5 6 PE M WWWW ET P N N N N N	r cak ocarcin
			IFGain:Low	#Atten: 30	0 dB		Mk		183 MHz	NextPea
0 dB/div	Ref 20.0	0 dBm						-59.5	i01 dBm	
. ^{og}										
10.0										Next Pk Rig
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Res BW	300 GHz 100 kHz		#VB\	N 300 kHz		9	weep 93	.33 ms (4	0000 GHZ 10000 pts)	
SG	100 kHz	Surget CA	#VB\	N 300 kHz	_	S		.33 ms (4	0000 GH2 10000 pts)	
Res BW SG Keysight Sp L	100 kHz ectrum Analyzer - RF 5	0Ω AC		_	ISE:INT		STATUS	.33 ms (4	10000 pts)	Peak Search
Res BW SG Keysight Sp L	100 kHz	0Ω AC	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	STATUS	.33 ms (4	10000 pts)	Peak Search
Res BW SG Keysight Sp L	100 kHz ectrum Analyzer - RF 5	0Ω AC	GHz	SEN	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	LOOOO pts)	Peak Search
Keysight Sp Keysight Sp L Aarker 1 0 dB/div	100 kHz ectrum Analyzer - RF 5	ο Ω AC 1061102	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	10000 pts)	
Res BW SG Keysight Sp L	100 kHz ectrum Analyzer - RF 5 2.362444	ο Ω AC 1061102	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search Next Pea
Keysight Sp Keysight Sp L Marker 1 0 dB/div	100 kHz ectrum Analyzer - RF 5 2.362444	ο Ω AC 1061102	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search Next Pea
Res BW sg Keysight Sp d L Aarker 1 0 dB/div	100 kHz ectrum Analyzer - RF 5 2.362444	ο Ω AC 1061102	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search
Keysight Sp Keysight Sp L Aarker 1 0 dB/div	100 kHz ectrum Analyzer - RF 5 2.362444	ο Ω AC 1061102	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search Next Pea
Res BW sa keysight Sp L Aarker 1 10.0	100 kHz ectrum Analyzer - RF 5 2.362444	ο Ω AC 1061102	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search Next Pea Next Pk Rig
Res BW sc Keysight Sp L Aarker 1 10.0	100 kHz ectrum Analyzer - RF 5 2.362444	ο Ω AC 1061102	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search Next Pea Next Pk Rig
Res BW sg Keysight Sp d L Aarker 1 0 dB/div	100 kHz ectrum Analyzer - RF 5 2.362444	ο Ω AC 1061102	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search Next Pea Next Pk Rig
Res BW sc Keysight Sp L Aarker 1 10.0	100 kHz ectrum Analyzer - RF 5 2.362444	ο Ω AC 1061102	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW sc keysight Sp d Rarker 1	100 kHz ectrum Analyzer - RF 5 2.362444	ο Ω AC 1061102	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Ress BW SG	100 kHz ectrum Analyzer - RF 5 2.362444	ο Ω AC 1061102	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Res BW sc keysight Sp d Rarker 1	100 kHz ectrum Analyzer - RF 5 2.362444	ο Ω AC 1061102	GHz PNO: Fast	SEN Trig: Free	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW sa keysight Sp larker 1 0 dB/div 9 10.0 20.00 20.00 30.00 40.0 50.0	100 kHz RF 5 2.362444 Ref 20.0	0 Q AC 061102 0 dBm	GHZ PNO: Fast IFGain:Low	SEN Trig: Free #Atten: 30		Avg Type Avg Hold	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De
Res BW SG	100 kHz ectrum Analyzer - RF 5 2.362444	0 Q AC 061102 0 dBm	GHZ PNO: Fast IFGain:Low	SEN Trig: Free #Atten: 30		Avg Type Avg Hold	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr→0
Res BW sa keysight Sp larker 1 0 dB/div 9 10.0 20.00 20.00 30.00 40.0 50.0	100 kHz RF 5 2.362444 Ref 20.0	0 Q AC 061102 0 dBm	GHZ PNO: Fast IFGain:Low	SEN Trig: Free #Atten: 30		Avg Type Avg Hold	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→C
Res BW G Keysight Sp L I Iarker 1 I 0 dB/div I	100 kHz RF 5 2.362444 Ref 20.0	0 Q AC 061102 0 dBm	GHZ PNO: Fast IFGain:Low	SEN Trig: Free #Atten: 30		Avg Type Avg Hold	ALIGN AUTO e: Log-Pwr :>100/100	.33 ms (4	40000 pts) CE 123456 PE M PE M P	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→C

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

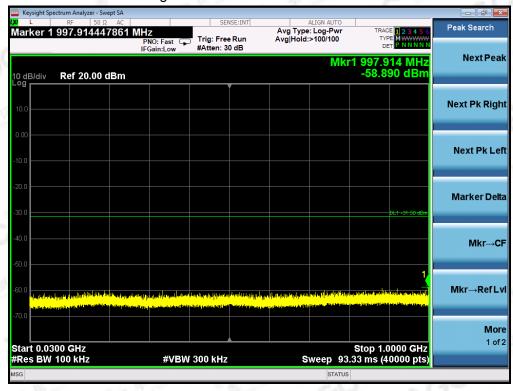
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN HIGH CHANNEL



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arker 1	RF 50 Ω 2.38204455			Trig: Free	e Dun		e: Log-Pwr :>100/100	TRA T)		Peak Search
			PNO: Fast 🕞 Gain:Low	#Atten: 3		Avginoid				NextPea
0 dB/div	Ref 20.00 d	Bm					WIKET	-55.0	045 GHz)15 dBm	
^{og}					Ĭ					
10.0										Next Pk Rig
0.00										
										Next Pk Le
10.0										
20.0										Marker De
30.0									DL1 -31.50 dDm	Marker De
40.0										Mkr→C
50.0										
50.0	h ma ku basa sa wasaliatika	dilant.us. aibirat.		ور و و و و و البار و و		a abari di sebut da	en de la competition	dadullanan alikiye	and the line of the	Mkr→RefL
Statements		interative states and	(Tracial sector s	Internetical designed	a the second	and the state of the	a na indiata in	a kanalahati pertentahan	a la sub più an den la sub più andre a la sub più andr	
70.0										Мо
tart 1 00					<u> </u>			Stop 2.	4000 GHz	1 0
	00 GHz									
Res BW			#VBW	√ 300 kHz		S	Sweep 13	6.0 ms (40000 pts)	
Res BW	100 kHz		#VBW				STATUS	6.0 ms (
Res BW GG Keysight Spe L	100 kHz	AC 552464	GHz	SEI	NSE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr	36.0 ms (4 3 TR4	40000 pts)	Peak Search
Res BW G Keysight Spe	100 kHz ectrum Analyzer - Swe RF 50 Ω	AC 552464		SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	16.0 ms (- 3 TRA T) [40000 pts) CE 1 2 3 4 5 6 PE M WWWWWW ET P NNNNN	Peak Search
Res BW	100 kHz ectrum Analyzer - Swe RF 50 Ω	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	1 24.96	40000 pts)	Peak Search
Res BW	100 kHz setrum Analyzer - Swe RF 50 Ω 24.9650985	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	1 24.96	40000 pts)	Peak Search NextPea
Res BW	100 kHz setrum Analyzer - Swe RF 50 Ω 24.9650985	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	1 24.96	40000 pts)	Peak Search NextPea
Res BW sg Keysight Spe	100 kHz setrum Analyzer - Swe RF 50 Ω 24.9650985	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	1 24.96	40000 pts)	Peak Search Next Pea Next Pk Rig
Res BW sa a keysight Spe b L a k	100 kHz setrum Analyzer - Swe RF 50 Ω 24.9650985	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	1 24.96	40000 pts)	Peak Search NextPea
Res BW sa a keysight Spe b L a k	100 kHz setrum Analyzer - Swe RF 50 Ω 24.9650985	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	1 24.96	40000 pts)	Peak Search Next Pea Next Pk Rig
Res BW sa a keysight Spe b L a k	100 kHz setrum Analyzer - Swe RF 50 Ω 24.9650985	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	1 24.96	40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW as keysight Spe L larker 1 0 dB/div 9 0	100 kHz setrum Analyzer - Swe RF 50 Ω 24.9650985	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	1 24.96	40000 pts)	Peak Search Next Pea Next Pk Rig
Res BW G dB/div 0 dB/div 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz setrum Analyzer - Swe RF 50 Ω 24.9650985	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	16.0 ms (* 1784 170 1 24.96 -38.1	40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lo
Res BW s G Keysight Spel larker 1 larker 1	100 kHz setrum Analyzer - Swe RF 50 Ω 24.9650985	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT e Run i0 dB	Avg Typ Avg Hold	ALIGN AUTO e: Log-Pwr I:>100/100	1 24.96	40000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Lo Marker De
Res BW sa	100 kHz setrum Analyzer - Swe RF 50 Ω 24.9650985	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT e Run i0 dB	Avg Typ Avg Hold	ALIGN AUTO e: Log-Pwr I:>100/100	16.0 ms (* 1784 170 1 24.96 -38.1	40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
Res BW G Keysight Spe L L C C C C C C C C	100 kHz setrum Analyzer - Swe RF 50 Ω 24.9650985	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT e Run i0 dB	Avg Typ Avg Hold	STATUS	16.0 ms (* 1784 170 1 24.96 -38.1	40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lo
Res BW sa a b sa b sa b sa b sa b sa b sa b s	100 kHz setrum Analyzer - Swe RF 50 Ω 24.9650985	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT e Run i0 dB	Avg Typ Avg Hold	STATUS	16.0 ms (* 1784 170 1 24.96 -38.1	40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr→0
Res BW G G Keysight Spe L L L G G G G G G G G G G G G G G G G	100 kHz setrum Analyzer - Swe RF 50 Ω 24.9650985	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT e Run i0 dB	Avg Typ Avg Hold	STATUS	16.0 ms (* 1784 170 1 24.96 -38.1	40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr→C
Res BW G Keysight Spectrum C C C C C C C C C	100 kHz ectrum Analyzer - Swa PF 50 Ω 24.9650985 Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0	AC 5 52464 F	GHz PNO: Fast	SEI	NSE:INT e Run i0 dB	Avg Typ Avg Hold	STATUS	16.0 ms (*	40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr→0

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Peak Search		ALIGN AUTO		SENSE:INT		50 Ω AC	R	L
I Can Search	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	be: Log-Pwr d:>100/100	Avg Avg	Trig: Free Run	PNO: Fast	50996275 N	er 1 809	arke
NextPe		Mice		#Atten: 30 dB	IFGain:Low			
	809.851 MHz -59.411 dBm	IVINI				20.00 dBm	div Re) dB/c
								°g
Next Pk Rig								0.0
Next Pk L								0.0
								0.0
								0.0
Marker De								
	DL1 -33.21 dBm							0.0
								0.0
Mkr→								
								0.0
Mkr→Ref	1							
wiki →Kei	("programmer of the ball of th	and and in part of the local states.	ha that the district		en platen se postel e d'Aleo		distant to the	0.0 <mark>- 1</mark>
				distante a colorada	And the start from he for the start	an a tribunda data	ilain fedd fladn ywddi) f	0.0
M								
1 0	Stop 1.0000 GHz					Z	0.0300 C	tart (
	Stop 1.0000 GHz 3 ms (40000 pts)	<u> </u>		00 kHz	#VBW		0.0300 C BW 100	Res I
	Stop 1.0000 GHz 3 ms (40000 pts)	Sweep 93.		00 kHz	#VBW			
	Stop 1.0000 GHz 3 ms (40000 pts)	STATUS			#VBW	1Z Ilyzer - Swept SA	BW 100	Res I
10	3 ms (40000 pts)	STATUS ALIGN AUTO De: Log-Pwr		SENSE:INT	GHz	łz	BW 100	Res I iG Keysig
1 d	3 ms (40000 pts) TRACE 1 2 3 4 5 6 TYPE M	ALIGN AUTO De: Log-Pwr d:>100/100				12 Ilyzer - Swept SA 50 Ω AC	BW 100	Res I iG Keysig
1	3 ms (40000 pts) TRACE 2 3 4 5 6 TYPE MUNICIPAL DET PINNIN 2.399 755 GHz	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz PNO: Fast	12 ilyzer - Swept SA 50 Ω AC 7549938755	BW 100	Res I G Keysig L arke
1 d	3 ms (40000 pts) TRACE 1 2 3 4 5 6 TYPE M	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz PNO: Fast	12 Ilyzer - Swept SA 50 Ω AC	BW 100	Res I G L arke
Peak Search Next Pe	3 ms (40000 pts) TRACE 2 3 4 5 6 TYPE MUNICIPAL DET PINNIN 2.399 755 GHz	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz PNO: Fast	12 ilyzer - Swept SA 50 Ω AC 7549938755	BW 100	Res I G Keysig L larke
1 d	3 ms (40000 pts) TRACE 2 3 4 5 6 TYPE MUNICIPAL DET PINNIN 2.399 755 GHz	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz PNO: Fast	12 ilyzer - Swept SA 50 Ω AC 7549938755	BW 100	Res I G Keysig L arke
Peak Search Next Pe	3 ms (40000 pts) TRACE 2 3 4 5 6 TYPE MUNICIPAL DET PINNIN 2.399 755 GHz	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz PNO: Fast	12 ilyzer - Swept SA 50 Ω AC 7549938755	BW 100	
Peak Search Next Pe	3 ms (40000 pts) TRACE 2 3 4 5 6 TYPE MUNICIPAL DET PINNIN 2.399 755 GHz	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz PNO: Fast	12 ilyzer - Swept SA 50 Ω AC 7549938775	BW 100	Res I G Keysig L arke
۲ م Peak Search Next Pe Next Pk Rig	3 ms (40000 pts) TRACE 2 3 4 5 6 TYPE MUNICIPAL DET PINNIN 2.399 755 GHz	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz PNO: Fast	12 ilyzer - Swept SA 50 Ω AC 7549938775	BW 100	Res I G Keysig L arke O dB/o
۲ م Peak Search Next Pe Next Pk Rig	3 ms (40000 pts) TRACE 2 3 4 5 6 TYPE MUNICIPAL DET PINNIN 2.399 755 GHz	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz PNO: Fast	12 ilyzer - Swept SA 50 Ω AC 7549938775	BW 100	Res I I Keysig arke 0 dB/c
۲ م Peak Search Next Pe Next Pk Rig	3 ms (40000 pts) TRACE 2 3 4 5 6 TYPE MUNICIPAL DET PINNIN 2.399 755 GHz	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz PNO: Fast	12 ilyzer - Swept SA 50 Ω AC 7549938775	BW 100	Res I I Keysig arke 0 dB/c
Peak Search Next Pe Next Pk Rig Next Pk L	3 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz PNO: Fast	12 ilyzer - Swept SA 50 Ω AC 7549938775	BW 100	Res I I G Keysig arke
Peak Search Next Pe Next Pk Rig Next Pk L	3 ms (40000 pts) TRACE 2 3 4 5 6 TYPE MUNICIPAL DET PINNIN 2.399 755 GHz	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz PNO: Fast	12 ilyzer - Swept SA 50 Ω AC 7549938775	BW 100	Res I G Keysig L arke 0 dB/c 0 dB/c 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d
Peak Search Next Pe Next Pk Rig Next Pk L	3 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz PNO: Fast	12 ilyzer - Swept SA 50 Ω AC 7549938775	BW 100	Res I G Keysig L arke 0 dB/c 0 dB/c 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d
Peak Search Next Pe Next Pk Rig Next Pk L	3 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz PNO: Fast	12 ilyzer - Swept SA 50 Ω AC 7549938775	BW 100	Res I G Keysig arke 0 0.0 0.0 0.0 0.0 0.0 0.0
Peak Search Next Pe Next Pk Rig Next Pk L	3 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100		SENSE:INT	GHz PNO: Fast	12 ilyzer - Swept SA 50 Ω AC 7549938775	BW 100	Res I G Keysig arke 0 0.0 0.0 0.0 0.0 0.0 0.0
Peak Search Next Pe Next Pk Rig Next Pk L	3 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100 MKr1	Avg	SENSE:INT Trig: Free Run #Atten: 30 dB	GHZ PNO: Fast IFGain:Low	12 ilyzer - Swept SA 50 Ω AC 7549938775	BW 100	a
1 d Peak Search Next Pe Next Pk Rig Next Pk L Marker De	3 ms (40000 pts)	ALIGN AUTO Se: Log-Pwr d:>100/100	Avg	SENSE:INT Trig: Free Run #Atten: 30 dB	GHZ PNO: Fast IFGain:Low	12 ilyzer - Swept SA 50 Ω AC 754993875 20.00 dBm	BW 100	
1 d Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→Ref	3 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100 MKr1	Avg	SENSE:INT Trig: Free Run #Atten: 30 dB	GHZ PNO: Fast IFGain:Low	12 ilyzer - Swept SA 50 Ω AC 754993875 20.00 dBm	BW 100	Res I G G C C C C C C C C C C C C C
1 d Peak Search Next Pe Next Pk Rig Next Pk L Marker De	13 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100 MKr1	Avg	SENSE:INT Trig: Free Run #Atten: 30 dB	GHZ PNO: Fast IFGain:Low	12 ilyzer - Swept SA 5 Ω Ω AC 754993875 20.00 dBm 20.00 dBm	BW 100	Res I Keysia ia Keysia arke Allow
1 d Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→Ref	3 ms (40000 pts)	ALIGN AUTO De: Log-Pwr d:>100/100 MKr1	Avg	SENSE:INT Trig: Free Run #Atten: 30 dB	CH2 PNO: Fast C IFGain:Low	12 ilyzer - Swept SA 5 0 Ω AC 754993875 20.00 dBm 	BW 100	G Image: second se

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

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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE

OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL Peak Search Avg Type: Log-Pwi Avg|Hold:>100/100 Marker 1 860.607515188 MHz PNO: Fast Trig: Free Run #Atten: 30 dB Next Pea 860.608 MHz -59.410 dBm Mkr1 Ref 20.00 dBm 0 dB/div Next Pk Right Next Pk Left Marker Delta Mkr→CF ▲1 Mkr→RefLv More 1 of 2 Stop 1.0000 GHz Sweep 93.33 ms (40000 pts) Start 0.0300 GHz #Res BW 100 kHz #VBW 300 kHz

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Keysight Sp XI L Marker 1	RF 50 Ω AC 2.36261906547	7 GHz	SENSE:INT	Avg Type:	Log-Pwr	TRACE 1 2 3 4	5 6 Peak Search
laikei i	2.30201900347	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:	>100/100		
					Mkr1 2.	362 619 G	Z Next Pe
0 dB/div	Ref 20.00 dBm		Ţ			-55.904 dE	5 m
10.0							Next Pk Rig
10.0							
0.00							
-10.0							Next Pk Lo
-20.0							
							Marker De
-30.0						DL1 -32.49	dBm
-40.0							Mkr→0
-50.0							71
60.0					المتحديقا المراجع	nove	Mkr→RefL
-60.0	in proving the second of the s	talahan kara sila beperangan paparan Karapatan dari berendara dari kara dilam				(Miki→kei L
-70.0							Ma
							1.0
Start 1 00	000 CH2		87				
	000 GHz 100 kHz	#VBN	/ 300 kHz	St	S weep 136.0	top 2.4000 G ms (40000 p	HZ its)
≉Res BW		#VBW	/ 300 kHz	St	S weep 136.0 status	top 2.4000 G I ms (40000 p	HZ its)
#Res BW ^{ISG}	100 KHz bectrum Analyzer - Swept SA	#VBW	-		weep 136.0 status	top 2.4000 G) ms (40000 p	nts)
#Res BW	100 kHz	88 GHz	SENSE:INT		STATUS	0 ms (40000 p	nts)
#Res BW	100 kHz ectrum Analyzer - Swept SA RF 50 Ω AC		SENSE:INT	Avg Type:	Veep 136.0 STATUS LIGN AUTO Log-Pwr >100/100	TRACE 1234 TYPE M	Peak Search
Keysight Sp Keysight Sp L Marker 1	100 kHz ectrum Analyzer - Swept SA RF 50 Ω AC	88 GHz PNO: Fast	SENSE:INT	Avg Type:	Veep 136.0 STATUS LIGN AUTO Log-Pwr >100/100 Mkr1 2	0 ms (40000 p	Peak Search Next Pe
#Res BW ISG Keysight Sp Marker 1 10 dB/div − ⁰ g	100 kHz нестим Analyzer - Swept SA RF 50 Ω AC 24.949899953498	88 GHz PNO: Fast	SENSE:INT	Avg Type:	Veep 136.0 STATUS LIGN AUTO Log-Pwr >100/100 Mkr1 2	TRACE 1 2 3 4 TYPE MYWY DET P NNN 24.949 9 G	Peak Search Next Pea In
Keysight Sp Keysight Sp L Marker 1	100 kHz нестим Analyzer - Swept SA RF 50 Ω AC 24.949899953498	88 GHz PNO: Fast	SENSE:INT	Avg Type:	Veep 136.0 STATUS LIGN AUTO Log-Pwr >100/100 Mkr1 2	TRACE 1 2 3 4 TYPE MYWY DET P NNN 24.949 9 G	Peak Search Next Pe
Keysight Sp Keysight Sp Marker 1 10 dB/div	100 kHz нестим Analyzer - Swept SA RF 50 Ω AC 24.949899953498	88 GHz PNO: Fast	SENSE:INT	Avg Type:	Veep 136.0 STATUS LIGN AUTO Log-Pwr >100/100 Mkr1 2	TRACE 1 2 3 4 TYPE MYWY DET P NNN 24.949 9 G	Peak Search Next Pe
#Res BW ISG Keysight Sp K L Marker 1 10 dB/div - Og 10.0	100 kHz нестим Analyzer - Swept SA RF 50 Ω AC 24.949899953498	88 GHz PNO: Fast	SENSE:INT	Avg Type:	Veep 136.0 STATUS LIGN AUTO Log-Pwr >100/100 Mkr1 2	TRACE 1 2 3 4 TYPE MYWY DET P NNN 24.949 9 G	Peak Search Next Pe Next Pk Rig
#Res BW ISG Keysight Sp L Marker 1	100 kHz нестим Analyzer - Swept SA RF 50 Ω AC 24.949899953498	88 GHz PNO: Fast	SENSE:INT	Avg Type:	Veep 136.0 STATUS LIGN AUTO Log-Pwr >100/100 Mkr1 2	TRACE 1 2 3 4 TYPE MYWY DET P NNN 24.949 9 G	Peak Search Next Peak Next Pk Rig
Keysight Sp Keysight Sp Z L Marker 1 10 dB/div	100 kHz нестим Analyzer - Swept SA RF 50 Ω AC 24.949899953498	88 GHz PNO: Fast	SENSE:INT	Avg Type:	Veep 136.0 STATUS LIGN AUTO Log-Pwr >100/100 Mkr1 2	TRACE 1 2 3 4 TYPE MYWY DET P NNN 24.949 9 G	Peak Search Next Peak
#Res BW ISG Keysight Sp L Marker 1	100 kHz нестим Analyzer - Swept SA RF 50 Ω AC 24.949899953498	88 GHz PNO: Fast	SENSE:INT	Avg Type:	Veep 136.0 STATUS LIGN AUTO Log-Pwr >100/100 Mkr1 2	TRACE 2 2 3 4 TYPE MWWW DET P NNN 24.949 9 G -37.770 dE	hts) Peak Search Next Pe Next Pk Rig Next Pk L
#Res BW Isg Keysight Sp Q Marker 1 100 dB/div -00 dB/div	100 kHz нестим Analyzer - Swept SA RF 50 Ω AC 24.949899953498	88 GHz PNO: Fast	SENSE:INT	Avg Type: Avg Hold:	weep 136.0 status	0 ms (40000 p TRACE 1 2 3 4 TYPE MWW DET P N N 24.949 9 G -37.770 dE	Next Pk Rig
#Res BW Iss Iss Keysight Sp Iss Marker 1 Iss 0 dB/div 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 10 0 10 0	100 kHz нестим Analyzer - Swept SA RF 50 Ω AC 24.949899953498	88 GHz PNO: Fast	SENSE:INT	Avg Type: Avg Hold:	Veep 136.0 STATUS LIGN AUTO Log-Pwr >100/100 Mkr1 2	0 ms (40000 p TRACE 1 2 3 4 TYPE MWW DET P N N 24.949 9 G -37.770 dE	Next Pk Rig
#Res BW Iss Iss Keysight Sp Iss Marker 1 Iss 0 dB/div 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 10 0 10 0	100 kHz нестим Analyzer - Swept SA RF 50 Ω AC 24.949899953498	88 GHz PNO: Fast	SENSE:INT	Avg Type: Avg Hold:	weep 136.0 status	0 ms (40000 p TRACE 1 2 3 4 TYPE MWW DET P N N 24.949 9 G -37.770 dE	Next Pk Rig
#Res BW Isg Keysight Sp Keys	100 kHz нестим Analyzer - Swept SA RF 50 Ω AC 24.949899953498	88 GHz PNO: Fast	SENSE:INT	Avg Type: Avg Hold:	weep 136.0 status	0 ms (40000 p TRACE 1 2 3 4 TYPE MWW DET P N N 24.949 9 G -37.770 dE	HS) Peak Search Next Pe Next Pk Rig Next Pk L Marker De
#Res BW Keysight Sp Marker 1 0 <tr< td=""><td>100 kHz нестим Analyzer - Swept SA RF 50 Ω AC 24.949899953498</td><td>88 GHz PNO: Fast</td><td>SENSE:INT</td><td>Avg Type: Avg Hold:</td><td>weep 136.0 status </td><td>0 ms (40000 p TRACE 1 2 3 4 TYPE MWW DET P N N 24.949 9 G -37.770 dE</td><td>HS) Peak Search Next Pe Next Pk Rig Next Pk L Marker De</td></tr<>	100 kHz нестим Analyzer - Swept SA RF 50 Ω AC 24.949899953498	88 GHz PNO: Fast	SENSE:INT	Avg Type: Avg Hold:	weep 136.0 status	0 ms (40000 p TRACE 1 2 3 4 TYPE MWW DET P N N 24.949 9 G -37.770 dE	HS) Peak Search Next Pe Next Pk Rig Next Pk L Marker De
#Res BW Keysight Sp Marker 1 0 20 10 20 10 10 10 10 20 20 20 30 10 10 10 10 10 10 10 10 10 10 10<	100 kHz нестим Analyzer - Swept SA RF 50 Ω AC 24.949899953498	88 GHz PNO: Fast	SENSE:INT	Avg Type: Avg Hold:	weep 136.0 status	0 ms (40000 p TRACE 1 2 3 4 TYPE MWW DET P N N 24.949 9 G -37.770 dE	HS) Peak Search Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→Ref L Mkr→Ref L
#Res BW Keysight Sp Marker 1 0 dB/div 0 0 0	2100 kHz RF 50 Ω 124.949899953491 Ref 20.00 dBm 1 1 <td< td=""><td>88 GHZ PNO: Fast IFGain:Low</td><td>SENSE:INT</td><td>Avg Type: Avg Hold:</td><td>weep 136.0 status status LIGN AUTO L Log-Pwr 100/100 Mkr1 2 who the relation of the relation o</td><td>0 ms (40000 p TRACE 1 2 3 4 TYPE MWW DET P N N 24.949 9 G -37.770 dE</td><td>Hz</td></td<>	88 GHZ PNO: Fast IFGain:Low	SENSE:INT	Avg Type: Avg Hold:	weep 136.0 status status LIGN AUTO L Log-Pwr 100/100 Mkr1 2 who the relation of the relation o	0 ms (40000 p TRACE 1 2 3 4 TYPE MWW DET P N N 24.949 9 G -37.770 dE	Hz

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Keysight Spectrum Analyzer - Swept L RF 50 Ω	AC	SENSE:INT	ALIGN AUTO		Peak Search
arker 1 824.1831045	PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	T Can Coaron
	IFGain:Low	#Atten: 30 dB	Mkr	1 824.183 MHz	Next Pea
dB/div Ref 20.00 dE	Bm			-59.665 dBm	
9					
0.0					Next Pk Rigi
.00					
					Next Pk Le
D.O					
D.O					
					Marker Del
D.O				DE1 -32.45rdBm	
0.0					Mkr→C
0.0					
				1	
D.O	ter a Mini fan yn yn fariait y ddaef ar a dd	(news/angles/angles/angles/angles/angles/angles/angles/angles/angles/angles/angles/angles/angles/angles/angles/	lang dan sebilah pertamakan sebilah se	ATT STATE DAY OF THE PARTY OF THE PARTY OF	Mkr→RefL
	nin data manang mang mang pang pang pang pang pang pang pang p	ر بر و مداوم و امار و ^{روانه} الاحدام و روانم روانه ال <mark>م الرو</mark>	ويراقق والمحادثة والمحادثة والمحادثة والمحادثة والمحادثة والمحادثة والمحادثة والمحادثة والمحادثة والمحاد	a la di sejata da pineti di finanzia da da di sa	
					Мо
					1 of
tart 0.0300 GHz				Stop 1.0000 GHz	
Res BW 100 kHz	#VBI	N 300 kHz		Stop 1.0000 GHz 33 ms (40000 pts)	
	#VB	N 300 kHz	Sweep 93. status		
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept	t SA		STATUS		
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept	AC GHz	SENSE:INT		33 ms (40000 pts)	Peak Search
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept L RF 50 Ω	t SA AC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	33 ms (40000 pts)	Peak Search
Res BW 100 kHz g Keysight Spectrum Analyzer - Swept L RF 50 Ω arker 1 2.381974545	AC AC 9364 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	33 ms (40000 pts)	Peak Search
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept L RF 50 Ω	AC AC 9364 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	33 ms (40000 pts)	Peak Search Next Pea
Res BW 100 kHz g Keysight Spectrum Analyzer - Swept L RE 50 Ω arker 1 2.38197454§ 0 dB/div Ref 20.00 dE	AC AC 9364 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	33 ms (40000 pts)	Peak Search Next Pea
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept C RF 50 Q arker 1 2.381974549 0 dB/div Ref 20.00 dE	AC AC 9364 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	33 ms (40000 pts)	Peak Search Next Pea
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept L RF 50 Ω arker 1 2.381974549 dB/div Ref 20.00 dE	AC AC 9364 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	33 ms (40000 pts)	Peak Search Next Pea Next Pk Rig
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept C RF 50 Q arker 1 2.381974549 0 dB/div Ref 20.00 dE	AC AC 9364 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	33 ms (40000 pts)	Peak Search
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept RF 50 Ω arker 1 2.381974549 dB/div Ref 20.00 dE	AC AC 9364 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	33 ms (40000 pts)	Peak Search Next Pea Next Pk Rig
Res BW 100 kHz g Keysight Spectrum Analyzer - Swept RF 50 Ω arker 1 2.381974549 0 0 0 0 0	AC AC 9364 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	33 ms (40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW 100 kHz g Keysight Spectrum Analyzer - Swept RF 50 Ω arker 1 2.381974549 0 0 0 0 0	AC AC 9364 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	33 ms (40000 pts)	Peak Search Next Pea Next Pk Rig
Res BW 100 kHz g Keysight Spectrum Analyzer - Swept RF 50 Ω arker 1 2.381974549 0 0 0 0 0	AC AC 9364 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	33 ms (40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept RE 50 Q arker 1 2.381974549 dB/div Ref 20.00 dE 00 00 00 00 00 00 00 00	AC AC 9364 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	33 ms (40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW 100 kHz g Keysight Spectrum Analyzer - Swept RE 50 Ω arker 1 2.381974545 g	AC AC 9364 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	33 ms (40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept RF 50 Q arker 1 2.381974545 dB/div Ref 20.00 dE Q	AC	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	33 ms (40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept RF 50 Q arker 1 2.381974545 dB/div Ref 20.00 dE 0 0	AC	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	33 ms (40000 pts)	Peak Search Next Per Next Pk Rig Next Pk Le Marker Del Mkr→C
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept RF 50 Q arker 1 2.381974545 dB/div Ref 20.00 dE Q	AC	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	33 ms (40000 pts)	Peak Search Next Per Next Pk Rig Next Pk Le Marker De Mkr-C
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept RF 50 Q arker 1 2.381974545 dB/div Ref 20.00 dE 0 0	AC	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	33 ms (40000 pts)	Peak Search Next Per Next Pk Rig Next Pk Le Marker De Mkr→C

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

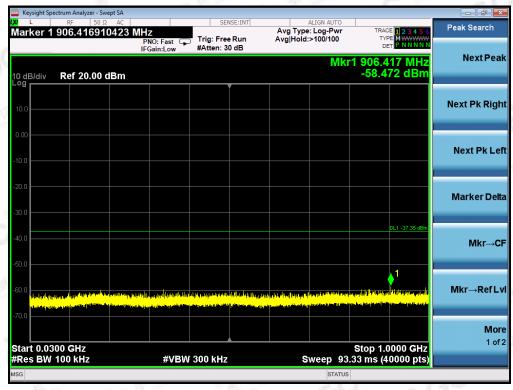
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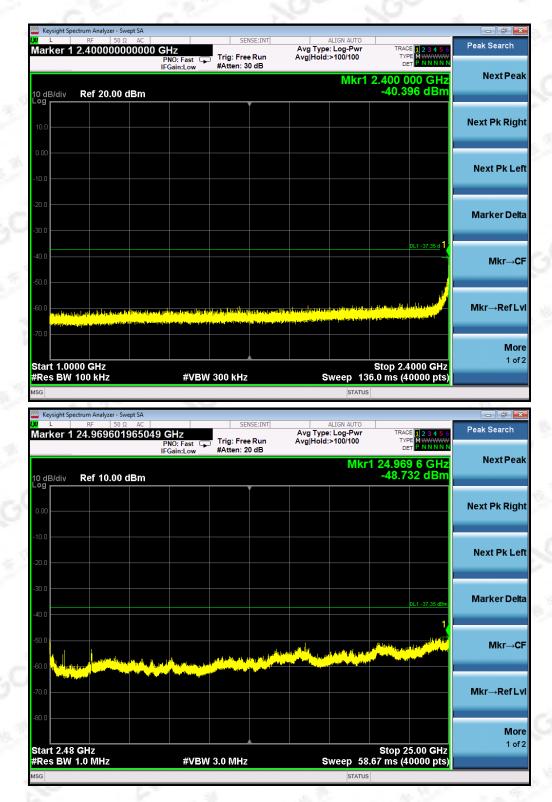
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n40 FOR MODULATION IN LOW CHANNEL



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Keysight Spectru	RF 50 Ω AC		SENSE:INT	ALIGN AUTO		Peak Search
larker 1 94	48.709967749	MHZ PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN	I eak Search
		IFGain:Low	#Atten: 30 dB			NextPea
	tef 20.00 dBm			MKr	948.710 MHz -59.089 dBm	Hextr et
0 dB/div R	(er 20.00 dBm					
						Next Pk Rig
10.0						
0.00						
						Next Pk Le
10.0						
20.0						
20.0						Marker Del
30.0						
					DL1 -36.92 dBm	
40.0						Mkr→C
50.0						
					_1	
60.0	I we have a state of the second state of the s	والمراجعة الأوريع أناعهم ويراجعه		ana a Malakatan Arya Katana Arya Kata	alan yana kana ana ana ana ana ana ana ana ana	Mkr→RefL
will de maine al	an particular and the second		and the state of the	the state of the second state of the state o	منابق ويتقاصين والاستناقين والمسالين والم	
70.0						Мо
						1 of
		#\/B)A(300 kHz	Sween 03 ?	Stop 1.0000 GHz	
Res BW 10		#VBW	300 kHz	Sweep 93.3	Stop 1.0000 GHZ 3 ms (40000 pts)	
FRes BW 10	0 kHz	#VBW	300 kHz	Sweep 93.3	stop 1.0000 GHZ 3 ms (40000 pts)	
Start 0.0300 Res BW 10		#VBW	300 kHz	Sweep 93.3	3 ms (40000 pts)	
Res BW 10 SG Keysight Spectru	10 kHz Im Analyzer - Swept SA) GHz	SENSE:INT	Sweep 93.3 STATUS ALIGN AUTO Avg Type: Log-Pwr	3 ms (40000 pts)	Peak Search
Res BW 10 SG Keysight Spectru	10 KHz Im Analyzer - Swept SA RF 50 Ω AC		SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 2 3 4 5 6 TYPE M WWWWW DET P NNNNN	Peak Search
Res BW 10 sg Keysight Spectru L Marker 1 2.	0 kHz im Analyzer - Swept SA RF 50 Q AC 398879971999) GHz PNO: Fast 😱	SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	13 ms (40000 pts) TRACE 1 2 3 4 5 G TYPE NAMINAN DET PINNINN 2.398 880 GHz	
Res BW 10 sa Keysight Spectru L Marker 1 2.	10 KHz Im Analyzer - Swept SA RF 50 Ω AC) GHz PNO: Fast 😱	SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 2 3 4 5 6 TYPE M WWWWW DET P NNNNN	Peak Search
Res BW 10 sg Keysight Spectru d L Marker 1 2.	0 kHz im Analyzer - Swept SA RF 50 Q AC 398879971999) GHz PNO: Fast 😱	SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	13 ms (40000 pts) TRACE 1 2 3 4 5 G TYPE NAMINAN DET P NAMINA 2.398 880 GHz	Peak Search Next Pea
Res BW 10 sg Keysight Spectru d L Marker 1 2.	0 kHz im Analyzer - Swept SA RF 50 Q AC 398879971999) GHz PNO: Fast 😱	SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	13 ms (40000 pts) TRACE 1 2 3 4 5 G TYPE NAMINAN DET P NAMINA 2.398 880 GHz	Peak Search
FRes BW 10 Keysight Spectru Keysight Spectru Aarker 1 2.	0 kHz im Analyzer - Swept SA RF 50 Q AC 398879971999) GHz PNO: Fast 😱	SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	13 ms (40000 pts) TRACE 1 2 3 4 5 G TYPE NAMINAN DET P NAMINA 2.398 880 GHz	Peak Search Next Pea
Res BW 10 sc Keysight Spectru Aarker 1 2. 0 dB/div F 10.0	0 KHZ Im Analyzer - Swept SA RF 50 Q AC 398879971999) GHz PNO: Fast 😱	SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	13 ms (40000 pts) TRACE 1 2 3 4 5 G TYPE NAMINAN DET P NAMINA 2.398 880 GHz	Peak Search Next Pea
Res BW 10 sc Keysight Spectru Aarker 1 2.	0 KHZ Im Analyzer - Swept SA RF 50 Q AC 398879971999) GHz PNO: Fast 😱	SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	13 ms (40000 pts) TRACE 1 2 3 4 5 G TYPE NAMINAN DET P NAMINA 2.398 880 GHz	Peak Search Next Pea Next Pk Rig
Res BW 10 SG Keysight Spectru Aarker 1 2. 0 dB/div F 0 dB/div F 0.00	0 KHZ Im Analyzer - Swept SA RF 50 Q AC 398879971999) GHz PNO: Fast 😱	SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	13 ms (40000 pts) TRACE 1 2 3 4 5 G TYPE NAMINAN DET P NAMINA 2.398 880 GHz	Peak Search Next Pea Next Pk Rig
Res BW 10 SG Keysight Spectru Aarker 1 2. 0 dB/div F 0 dB/div F 0.00	0 KHZ Im Analyzer - Swept SA RF 50 Q AC 398879971999) GHz PNO: Fast 😱	SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	13 ms (40000 pts) TRACE 1 2 3 4 5 G TYPE NAMINAN DET P NAMINA 2.398 880 GHz	Peak Search Next Pea Next Pk Rig
Res BW 10 sa Keysight Spectru Marker 1 2.	0 KHZ Im Analyzer - Swept SA RF 50 Q AC 398879971999) GHz PNO: Fast 😱	SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	13 ms (40000 pts) TRACE 1 2 3 4 5 G TYPE NAMINAN DET P NAMINA 2.398 880 GHz	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW 10 s keysight Spectru Aarker 1 2.	0 KHZ Im Analyzer - Swept SA RF 50 Q AC 398879971999) GHz PNO: Fast 😱	SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	13 ms (40000 pts) TRACE 1 2 3 4 5 G TYPE NAMINAN DET P NAMINA 2.398 880 GHz	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW 10 sa keysight Spectru larker 1 2.	0 KHZ Im Analyzer - Swept SA RF 50 Q AC 398879971999) GHz PNO: Fast 😱	SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	13 ms (40000 pts) TRACE 2 3 4 5 6 TYPE MUNUM 2.398 880 GHz -51.237 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Res BW 10 Sa Sa Keysight Spectru Iarker 1 2. O dB/div F 0 0	0 KHZ Im Analyzer - Swept SA RF 50 Q AC 398879971999) GHz PNO: Fast 😱	SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	13 ms (40000 pts) TRACE 2 3 4 5 6 TYPE MUNUM 2.398 880 GHz -51.237 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW 10 Sa Sa Keysight Spectru Iarker 1 2. O dB/div F 0 0	0 KHZ Im Analyzer - Swept SA RF 50 Q AC 398879971999) GHz PNO: Fast 😱	SENSE:INT	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	13 ms (40000 pts) TRACE 2 3 4 5 6 TYPE MUNUM 2.398 880 GHz -51.237 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Res BW 10 sa	10 kHz im Analyzer - Swept SA RF 50 Ω AC 398879971999 Ref 20.00 dBm	GHZ PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	Sweep 93.3	13 ms (40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Res BW 10 SG Keysight Spectrum Arrker 1 2. Arrker 1 2. 0 dB/div F	10 kHz im Analyzer - Swept SA RF 50 Ω AC 398879971999 Ref 20.00 dBm	GHZ PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	Sweep 93.3 status Align Auto Avg Type: Log-Pwr Avg Hold:>100/100	13 ms (40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C
Res BW 10 sa Keysight Spectrum Aarker 1 2. 0 dB/div 9 10.0 30.0 30.0 50.0	10 kHz im Analyzer - Swept SA RF 50 Ω AC 398879971999 Ref 20.00 dBm	GHZ PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	Sweep 93.3	13 ms (40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C
Res BW 10 Sa Sa Keysight Spectrum Spectrum Iarker 1 2. Sa 0 dB/div F 0 db/div <td< td=""><td>10 kHz Im Analyzer - Swept SA Ref 50 Ω AC 393879971999 Ref 20.00 dBm </td><td>GHZ PNO: Fast IFGain:Low</td><td>SENSE:INT Trig: Free Run #Atten: 30 dB</td><td>Sweep 93.3 STATUS ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1 2 </td><td>13 ms (40000 pts)</td><td>Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C Mkr→Ref L</td></td<>	10 kHz Im Analyzer - Swept SA Ref 50 Ω AC 393879971999 Ref 20.00 dBm 	GHZ PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	Sweep 93.3 STATUS ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1 2 	13 ms (40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C Mkr→Ref L
Res BW 10 33 Keysight Spectru Iarker 1 2. 0 dB/div	00 kHz	CH2 PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	Sweep 93.3	13 ms (40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del 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 Peak Search Avg Type: Log-Pwi Avg|Hold:>100/100 Marker 1 805.219130478 MHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB Next Pea 805.219 MHz -58.663 dBm Mkr1 Ref 20.00 dBm 0 dB/div Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLv More 1 of 2 Stop 1.0000 GHz Sweep 93.33 ms (40000 pts) Start 0.0300 GHz Res BW 100 kHz #VBW 300 kHz

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	F 50 Ω AC	2 GHz			Avg Type:	LIGN AUTO	TRAC	E 1 2 3 4 5 6	Peak Search
		PNO: Fast G	Trig: Free #Atten: 30		vg Hold:>				
	of 20.00 dBm					Mkr1	2.394 5	505 GHz 97 dBm	NextPea
0 dB/div Re	ef 20.00 dBm		Ĭ						
10.0									Next Pk Rig
0.00									Next Pk Le
10.0									NEXI PK L
20.0									
20.0									Marker De
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40.0								DE1 -36.60 GBM	Mkr→C
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tart 1.0000 (<i>(</i>)						1000 GHz	1 0
	л кп2	#VBV	V 300 kHz		31	STATUS	<u> </u>	.0000 pts)	
SG		#vBv	V 300 KHZ		3.		<u> </u>	.0000 ptsj	
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sg Keysight Spectrum L R Narker 124.	n Analyzer - Swept SA ⊁ 50 Ω AC 9628468461	71 GHz PNO: Fast G	SEN:	A Run A	Avg Type:	STATUS ALIGN AUTO : Log-Pwr >100/100	TRAC TYI Di 1 24.96		
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sg keysight Spectrum L F Narker 1 24.	n Analyzer - Swept SA ⊁ 50 Ω AC 9628468461	71 GHz PNO: Fast G	SEN:	A Run A	Avg Type:	STATUS ALIGN AUTO : Log-Pwr >100/100	TRAC TYI Di 1 24.96		Peak Search Next Pea
sg keysight Spectrum L F Narker 1 24.	n Analyzer - Swept SA ⊁ 50 Ω AC 9628468461	71 GHz PNO: Fast G	SEN:	A Run A	Avg Type:	STATUS ALIGN AUTO : Log-Pwr >100/100	TRAC TYI Di 1 24.96		Peak Search Next Pea
sg Keysight Spectrum 2 L R Aarker 1 24. 0 dB/div Re	n Analyzer - Swept SA ⊁ 50 Ω AC 9628468461	71 GHz PNO: Fast G	SEN:	A Run A	Avg Type:	STATUS ALIGN AUTO : Log-Pwr >100/100	TRAC TYI Di 1 24.96		Peak Search Next Pea Next Pk Rig
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a Keysight Spectrum L F larker 1 24.	n Analyzer - Swept SA ⊁ 50 Ω AC 9628468461	71 GHz PNO: Fast G	SEN:	A Run A	Avg Type:	STATUS ALIGN AUTO : Log-Pwr >100/100	TRAC TYI Di 1 24.96		Peak Search Next Pea
a Keysight Spectrum L F larker 1 24.	n Analyzer - Swept SA ⊁ 50 Ω AC 9628468461	71 GHz PNO: Fast G	SEN:	A Run A	Avg Type:	STATUS ALIGN AUTO : Log-Pwr >100/100	TRAC TYI Di 1 24.96	2 8 GHz 29 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le
G dB/div Re G dV	n Analyzer - Swept SA ⊁ 50 Ω AC 9628468461	71 GHz PNO: Fast G	SEN:	A Run A	Avg Type:	STATUS ALIGN AUTO : Log-Pwr >100/100	TRAG TV/ DI 1 24.96 -38.5	E 1 2 3 4 5 6 E M NNNN 2 8 GHz 29 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De
SG Feature Keysight Spectrum F Iarker 1 24. F 0 dB/div Re 0 dD F 10 0 F	n Analyzer - Swept SA ⊁ 50 Ω AC 9628468461	71 GHz PNO: Fast G	SEN:		Avg Type: vg Hold:	STATUS	TR40 TY 0 1 24.96 -38.5	E 1 2 3 4 5 6 E M NNNN 2 8 GHz 29 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
SG Feature Keysight Spectrum F Iarker 1 24. F 0 dB/div Re 0 dD F 10 0 F	n Analyzer - Swept SA ⊁ 50 Ω AC 9628468461	71 GHz PNO: Fast G	SEN:	Run A dB	Avg Type: vg Hold:	STATUS ALIGN AUTO : Log-Pwr >100/100	TR40 TY 0 1 24.96 -38.5	E 1 2 3 4 5 6 E M NNNN 2 8 GHz 29 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De
SG Keysight Spectrum L F Aarker 1 24. 0 B/div	n Analyzer - Swept SA ⊁ 50 Ω AC 9628468461	71 GHz PNO: Fast G	SEN:		Avg Type: vg Hold:	STATUS	TR40 TY 0 1 24.96 -38.5	E 1 2 3 4 5 6 E M NNNN 2 8 GHz 29 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→C
SG Keysight Spectrum IL F Aarker 1 24. F 0 dB/div Re	n Analyzer - Swept SA ⊁ 50 Ω AC 9628468461	71 GHz PNO: Fast G	SEN:		Avg Type: vg Hold:	STATUS	TR40 TY 0 1 24.96 -38.5	E 1 2 3 4 5 6 E M NNNN 2 8 GHz 29 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le
SG Keysight Spectrum L F Narker 1 24. F 0 dB/div Re	n Analyzer - Swept SA ⊁ 50 Ω AC 9628468461	71 GHz PNO: Fast G	SEN:		Avg Type: vg Hold:	STATUS	TR40 TY 0 1 24.96 -38.5	E 1 2 3 4 5 6 E M NNNN 2 8 GHz 29 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→C
SG Keysight Spectrum Itarker 1 24. F Itarker 1 24. F 0 dB/div Re	Analyzer - Swept SA EF 50 Ω AC 9628468461 2f 20.00 dBm	71 GHz PNO: Fast G	SEN:		Avg Type: vg Hold:	STATUS	1 24.96 -38.5	E 1 2 3 4 5 6 E M NNNN 2 8 GHz 29 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→C

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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

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

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

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

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

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-4.548	8	Pass
Middle Channel	-3.860	8	Pass
High Channel	-2.647	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY	20	N. S.
TEST MODE	802.11g with data rate 6	1 2 M	R.

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-9.153	8	Pass
Middle Channel	-9.289	8	Pass
High Channel	-8.929	8	Pass

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High Channel

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Pass

8

TEST ITEM	POWER SPECTRAL DENSITY	× 10-	R. G. P.
TEST MODE	802.11n 20 with data rate 6.5	6 × 6 ×	2.6
Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-10.435	8	Pass
Middle Channel	-10.392	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY	0	100	
TEST MODE	802.11n 40 with data rate 13.5	THE IS	5 A 18-	2
- P		- 7. 1		-

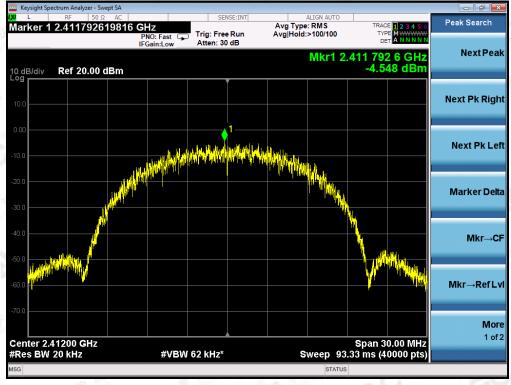
-10.885

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-14.482	8	Pass
Middle Channel	-14.415	8	Pass
High Channel	-14.259	8	Pass

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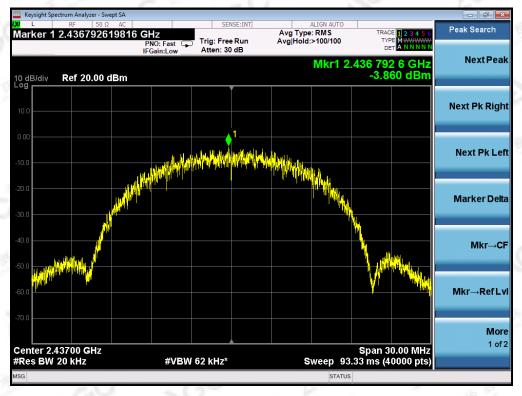




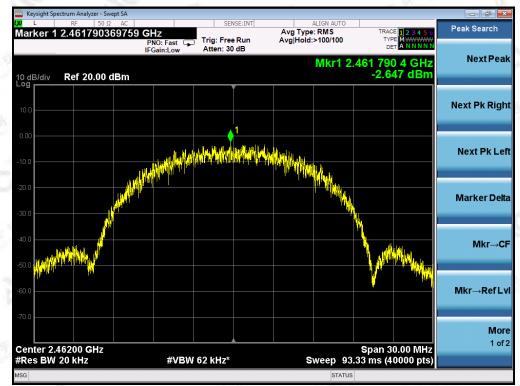


802.11b TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



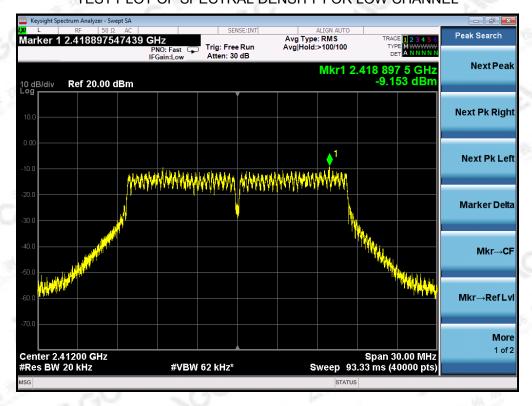
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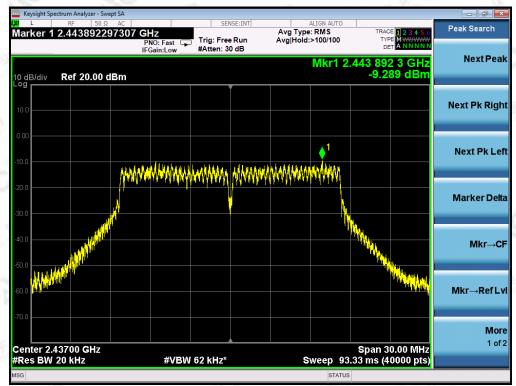
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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

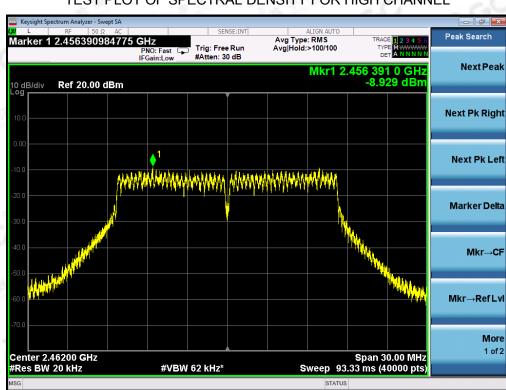


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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

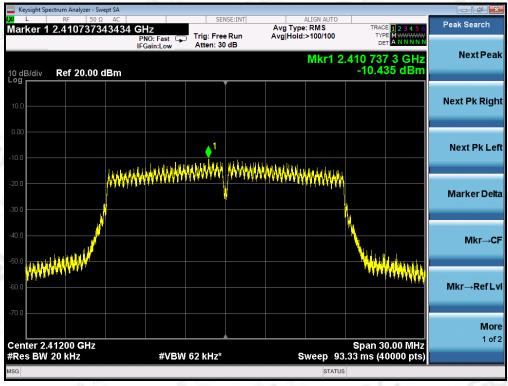
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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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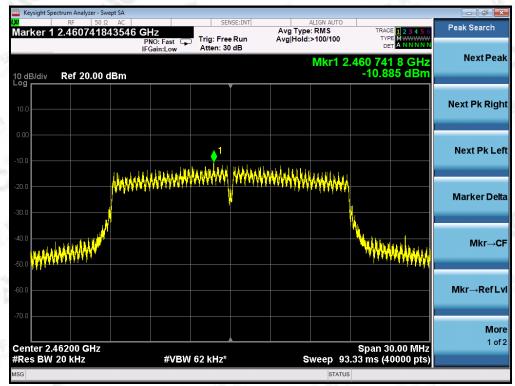


802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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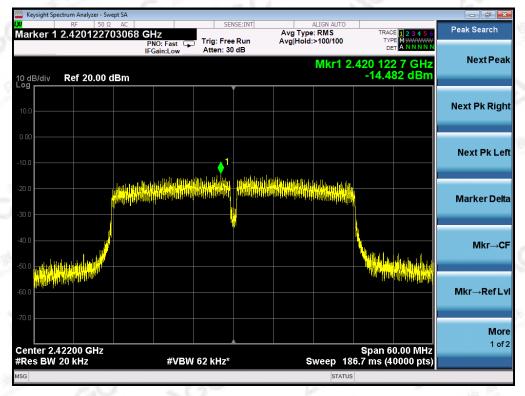


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

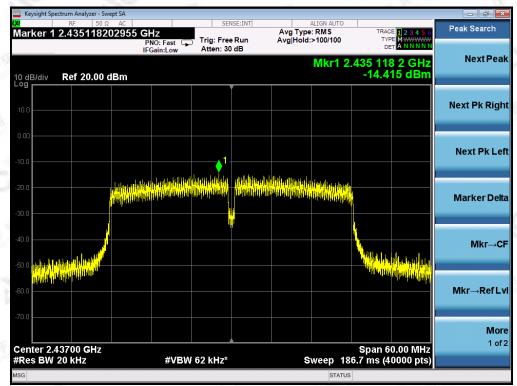
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802.11n 40 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

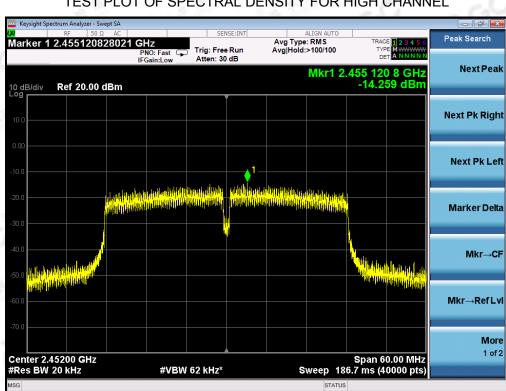


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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

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

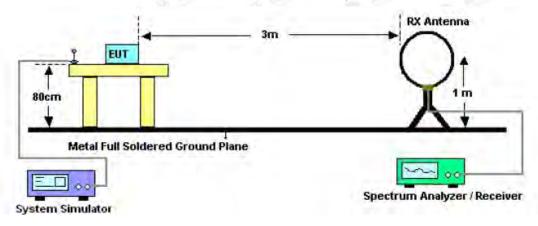
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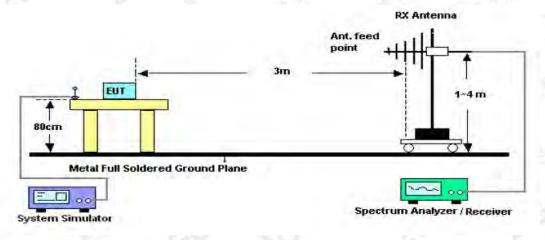
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11.2. TEST SETUP

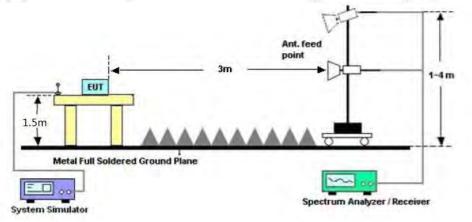
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

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

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

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

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

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

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

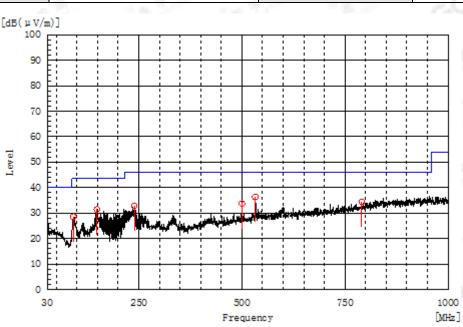
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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

RADIATED EMISSION BELOW 1GHZ



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
91.595	Н	16.2	12.4	28.6	43.5	14.9	Pass	100.0	306.2
148.825	Н	14.8	16.6	31.4	43.5	12.1	Pass	200.0	72.2
239.520	Н	16.7	16.2	32.9	46.0	13.1	Pass	200.0	179.9
532.460	Н	12.8	23.5	36.3	46.0	9.7	Pass	100.0	268.5
499.965	н	10.9	22.9	33.8	46.0	12.2	Pass	100.0	268.5
790.480	Н	5.9	28.5	34.4	46.0	11.6	Pass	100.0	304.9

RESULT: PASS

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EUT	JMG	O Smart Hor	ne Theate	r M	odel Na	me	SA		
Temperature	25°C	0.9		R	Relative Humidity Test Voltage		dity 55.4%		22
Pressure	960h	Pa	100	Те			Norr	nal Voltag	е
Test Mode	802.1 2412	1b with date MHZ	e rate 1	Α	Antenna Vertical			18 10 Th	
	μV/m)] 100							1.82	1
	90							100	
	80								
	70							200	
	60							- 68	
Level	50							1	
-O 1	40			1 X				1.18	
	30					فيتجدد فبالمربية معدهما	وسفيته بع البيا	5300	
	20	AND REAL PROPERTY.						-	
	10							-	
	٥								
	30	250	F	500 requency		750		000 Hz]	

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
30.485	v	20.8	15.5	36.3	40.0	3.7	Pass	200.0	56.6
91.595	v	24.0	12.4	36.4	43.5	7.1	Pass	100.0	287.8
396.175	v	10.8	20.7	31.5	46.0	14.5	Pass	100.0	287.8
532.460	v	20.0	23.5	43.5	46.0	2.5	Pass	200.0	92.1
561.560	v	10.2	24.1	34.3	46.0	11.7	Pass	150.0	289.5
900.090	v	6.9	30.2	37.1	46.0	8.9	Pass	100.0	250.6

RESULT: PASS

Note:

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

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

RADIATED EMISSION ABOVE 1GHZ

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value i ype
4824.071	46.14	7.12	53.26	74	-20.74	peak
4824.052	41.85	7.12	48.97	54	-5.03	AVG
7236.037	42.24	9.84	52.08	74	-21.92	peak
7236.118	37.76	9.84	47.6	54	-6.4	AVG
0	0	30		1		15
emark:	Sec. 12			1.1	200	s T
actor = Ante	enna Factor + Ca	ble Loss – I	Pre-amplifier.	1.0.7.1	1.12	C1

EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.047	45.84	7.12	52.96	74	-21.04	peak
4824.115	39.25	7.12	46.37	54	-7.63	AVG
7236.103	43.71	9.84	53.55	74	-20.45	peak
7236.050	37.34	9.84	47.18	54	-6.82	AVG
	200		10° 1	69		5.0
emark:	~0~	1			16	- (
actor = Ante	enna Factor + Ca	ble Loss – I	Pre-amplifier.	4.4	- 70	

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		- NO	
EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.059	46.78	7.18	53.96	74	-20.04	peak
4874.049	42.24	7.18	49.42	54	-4.58	AVG
7311.087	41.85	9.86	51.71	74	-22.29	peak
7311.076	37.44	9.86	47.3	54	-6.7	AVG
- A	0 - 0	6				15 10
emark:				1		1 m
actor = Ante	enna Factor + Cal	ble Loss – I	Pre-amplifier.	1.0		

EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.096	48.78	7.18	55.96	74	-18.04	peak
4874.114	43.64	7.18	50.82	54	-3.18	AVG
7311.115	42.55	9.86	52.41	74	-21.59	peak
7311.115	37.44	9.86	47.3	54	-6.7	AVG
20-				100	No.	1.2.9
emark:						

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EUT JMGO Smart Home Theater		Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.043	47.14	7.24	54.38	74	-19.62	peak
4924.064	42.25	7.24	49.49	54	-4.51	AVG
7386.031	45.22	9.92	55.14	74	-18.86	peak
7386.096	37.69	9.92	47.61	54	-6.39	AVG
emark:		62	-00	20	-	

EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4924.064	45.68	7.24	52.92	74	-21.08	peak
4924.083	40.41	7.24	47.65	54	-6.35	AVG
7386.040	38.78	9.92	48.7	74	-25.3	peak
7386.118	33.59	9.92	43.51	54	-10.49	AVG
Ś		2	68	-01	- 20	6
emark:	-6	× .	60 - 2	60	100	

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

RESULT: PASS

Note:

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

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

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

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12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

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

12.2. TEST SET-UP

same as 11.2

Note:

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

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

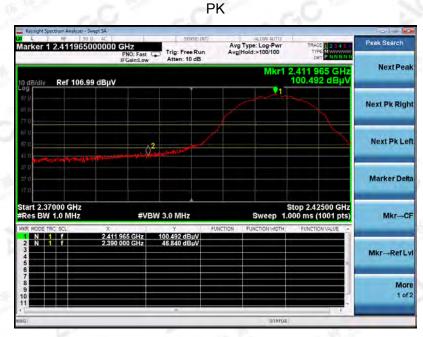
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12.3. TEST RESULT

EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal



AV



RESULT: PASS

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

ΡK



AV



RESULT: PASS

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

ΡK



AV



RESULT: PASS

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

ΡK



AV



RESULT: PASS

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal

ΡK



AV



RESULT: PASS

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical

ΡK



AV



RESULT: PASS

The results showed http://www.ago-gett.com.

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal

ΡK



AV



RESULT: PASS

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Vertical

ΡK



AV



RESULT: PASS

The results showed http://www.ago-gett.com.

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal

ΡK



AV



RESULT: PASS

The results showed http://www.ago-gett.com.

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical

ΡK



AV



RESULT: PASS

The results showed http://www.ago-gett.com.

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Horizontal

ΡK



AV



RESULT: PASS

The results showed http://www.ago-gett.com.

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Vertical

ΡK







RESULT: PASS

The results showed http://www.ago-gett.com.

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Horizontal

ΡK



AV



RESULT: PASS

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Vertical

ΡK



AV



RESULT: PASS

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity 55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40with data rate 13.5 2452MHZ	Antenna	Horizontal

ΡK



AV



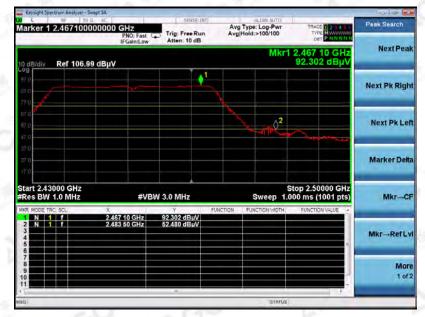
RESULT: PASS

The results showed http://www.ago-gett.com.

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2452MHZ	Antenna	Vertical

ΡK



AV



RESULT: PASS

The results showed http://www.ago-gett.com.

13. FCC LINE CONDUCTED EMISSION TEST

13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

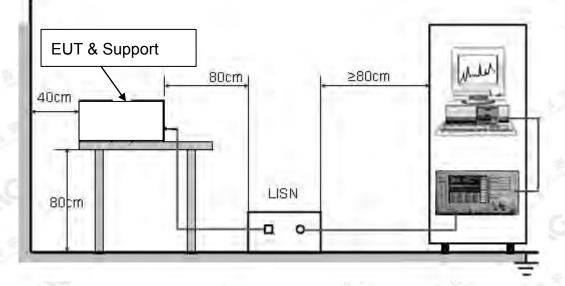
Fromosou	Maximum RF Line Voltage			
Frequency	Q.P.(dBuV)	Average(dBuV)		
150kHz~500kHz	66-56	56-46		
500kHz~5MHz	56	46		
5MHz~30MHz	60	50		

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received charging voltage by adapter which received 120V/60Hzpower by a LISN..
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

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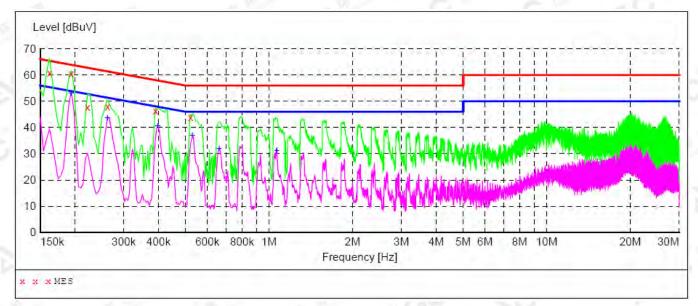




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13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST





MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector
MHz	dBuV	dB	dBuV	dB	
0.162000 0.194000 0.222000 0.262000 0.390000 0.522000	60.70 60.60 47.70 48.10 46.50 43.90	11.4 11.4 11.4 11.3 11.4 11.4	65 64 61 58 56	4.7 3.3 15.0 13.3 11.6 12.1	QP QP QP QP QP QP

MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector
MHz	dBuV	dB	dBuV	dB	
0.194000	52.90	11.4	54	1.0	AV
	43.50	11.3	51	7.9	AV
0.398000	40.50	11.4	48	7.4	
0.530000	36.80	11.4	46		AV
0.662000	31.90	11.4	46		AV
1.066000	31.20	11.3	46		AV

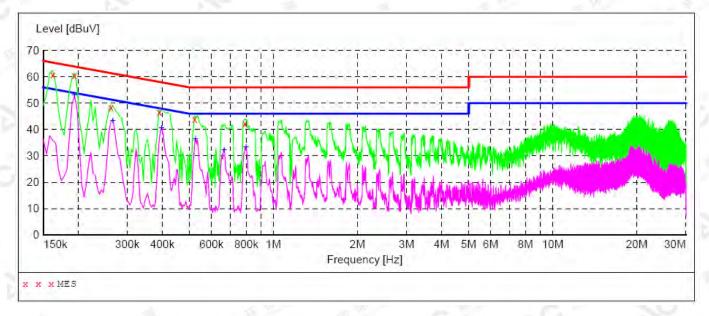
RESULT: PASS

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LINE CONDUCTED EMISSION TEST-N

MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector
MHz	dBuV	dB	dBuV	dB	
0.162000 0.194000 0.262000 0.390000 0.522000 0.790000	60.90 60.60 48.20 46.60 44.00 42.20	11.4 11.4 11.3 11.4 11.4 11.4	65 64 58 56 56	4.5 3.3 13.2 11.5 12.0 13.8	QP QP

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector
0.194000	53.00	11.4	54	0.9	AV
0.266000	43.40	11.3	51	7.8	AV
0.398000	40.50	11.4	48	7.4	AV
0.526000	36.30	11.4	46	9.7	AV
0.666000	32.30	11.4	46	13.7	AV
0.798000	33.40	11.4	46	12.6	AV

RESULT: PASS

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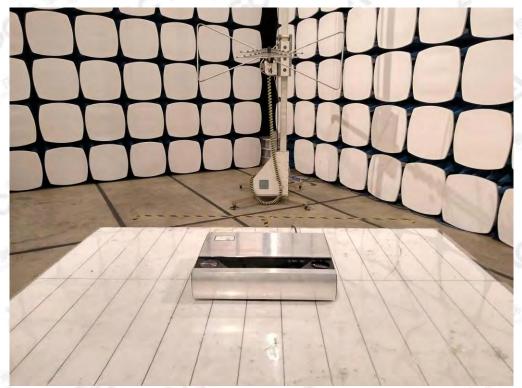


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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ

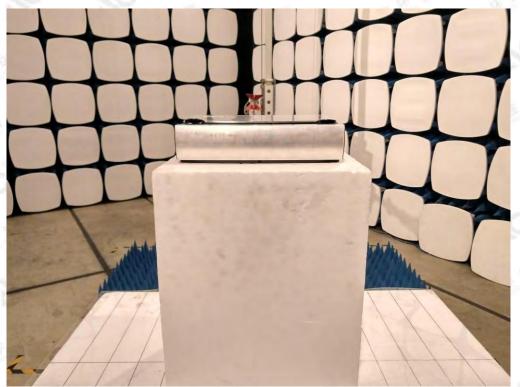


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FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ

----END OF REPORT----

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