FCC Test Report

Report No.: AGC05959190301TE05

FCC ID	:	2ASMBDCC-01101
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Intelligent Indoor dog potty
BRAND NAME	:	iDogPotty
MODEL NAME	:	DCC-01101
CLIENT	:	DogCareCo., Inc.
DATE OF ISSUE	:	Mar. 20, 2019
STANDARD(S) TEST PROCEDURE(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	Mar. 20, 2019	Valid	Initial Release

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Applicant	DogCareCo., Inc.
Address	No.5, Zhongxing Road, Shiyan, Baoan District Shenzhen
Manufacturer	DogCareCo., Inc.
Address	No.5, Zhongxing Road, Shiyan, Baoan District Shenzhen
Factory	Shenzhen Wanyuantong Technology Co., Ltd.
Address	Bld.5, Longhui Industrial Park, Fuyong Fuqiao 3rd District, ShenZhen.
Product Designation	Intelligent Indoor dog potty
Brand Name	iDogPotty
Test Model	DCC-01101
Date of test	Mar. 14, 2019~ Mar. 20, 2019
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

1. VERIFICATION OF CONFORMITY

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.

Max 2ha Tested By Max Zhang(Zhang Yi) Mar. 20, 2019 BONG xie Reviewed By Bart Xie(Xie Xiaobin) Mar. 20, 2019 Forvesto en Approved By Forrest Lei(Lei Yonggang) Mar. 20, 2019 Authorized Officer

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Intelligent Indoor dog potty". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EOT is described as following		
Operation Frequency	2.412 GHz~2.462GHz	
	IEEE 802.11b:16.65dBm; IEEE 802.11g:12.90dBm;	
Output Power(Average)	IEEE 802.11n(20):13.00dBm; IEEE 802.11n(40):11.58dBm	
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)	
Number of channels	11	
Hardware Version	DCC-01101	
Software Version	V2.24	
Antenna Designation	PIFA antenna	
Antenna Gain	3.0dBi	
Power Supply	DC 12V by adapter	

A major technical description of EUT is described as following

2.2. TABLE OF CARRIER FREQUENCYS

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

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

MCS Index	Nss	Modulation	R	NBPSC	NCBPS				rate(I	ata Mbps) nsGI
					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

2.3. IEEE 802.11N MODULATION SCHEME

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

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

This submittal(s) (test report) is intended for **FCC ID: 2ASMBDCC-01101** 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.

3. MEASUREMENT UNCERTAINTY

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

- Uncertainty of Conducted Emission, $Uc = \pm 3.2 \text{ dB}$
- 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	Note: Transmit by 802.11b with Date rate (1/2/5.5/11) Transmit by 802.11g with Date rate (6/9/12/18/24/36/48/54) Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65) Transmit by 802.11n (40MHz) with Date rate (13.5/27/40.5/54/81/108/121.5/135)				

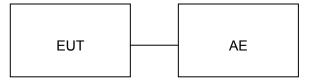
Note:

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



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Intelligent Indoor dog potty	DCC-01101	2ASMBDCC-01101	EUT
2	Adapter	BY-B120100C300	Input: 100-240V, 50/60Hz, 0.5A Output: 12V, 1A	AE

5.3. SUMMARY OF TEST RESULTS

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

6. TEST FACILITY

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

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2018	Jun. 11, 2019
LISN	R&S	ESH2-Z5	100086	Aug. 28, 2018	Aug. 27, 2019

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2018	Jun. 11, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
Power sensor	Aglient	U2021XA	MY54110007	Sep. 20, 2018	Sep. 19, 2019
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 12, 2018	Jun. 11, 2019
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 12, 2018	Jun. 11, 2019
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019

7. OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

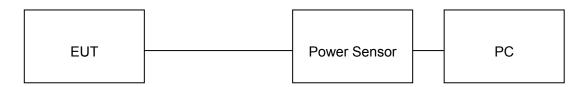
For average power test:

- 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
TEST MODE	802.11b with data rate 1

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	16.34	30	Pass
2.437	16.65	30	Pass
2.462	16.52	30	Pass

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

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	12.90	30	Pass
2.437	12.35	30	Pass
2.462	12.71	30	Pass

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

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	12.81	30	Pass
2.437	12.75	30	Pass
2.462	13.00	30	Pass

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

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.422	11.58	30	Pass
2.437	11.35	30	Pass
2.452	11.50	30	Pass

8.6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

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

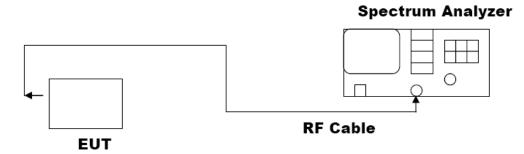
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.

3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \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
TEST MODE	802.11b with data rate 11

	LIMITS AND MEAS	UREMENT RESULT	
Annlinghla Limita		Applicable Limits	
Applicable Limits	Test Da	ta (MHz)	Criteria
	Low Channel	10.05	PASS
>500KHZ	Middle Channel	10.07	PASS
	High Channel	10.07	PASS

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

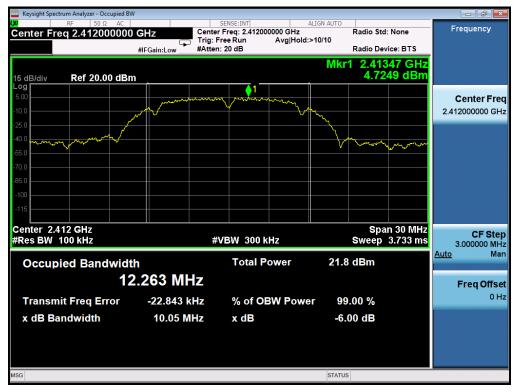
	LIMITS AND MEAS	UREMENT RESULT				
Annlinghla Limita		Applicable Limits				
Applicable Limits	Test Da	ta (MHz)	Criteria			
	Low Channel	16.38	PASS			
>500KHZ	Middle Channel	16.37	PASS			
	High Channel	16.36	PASS			

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

	LIMITS AND MEASUREMENT RESULT					
Applicable Limite		Applicable Limits				
Applicable Limits	Test Da	ta (MHz)	Criteria			
	Low Channel	17.51	PASS			
>500KHZ	Middle Channel	17.06	PASS			
	High Channel	17.30	PASS			

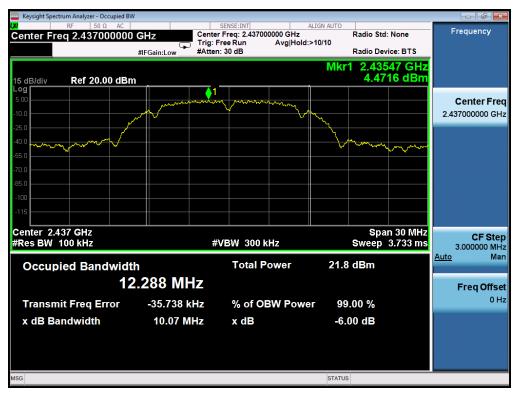
TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11n 40 with data rate 135

	LIMITS AND MEAS	UREMENT RESULT			
Applicable Limite	Applicable Limits				
Applicable Limits	Test Da	ta (MHz)	Criteria		
	Low Channel	35.47	PASS		
>500KHZ	Middle Channel	35.42	PASS		
	High Channel	35.46	PASS		



802.11b TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



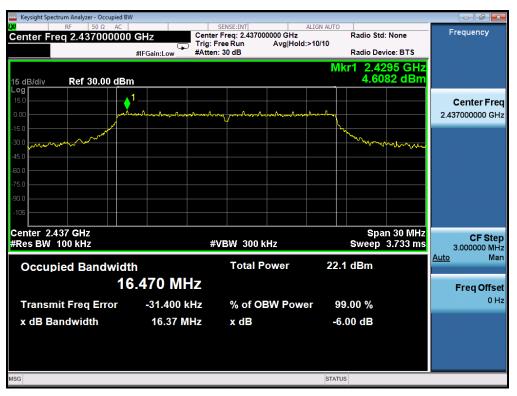


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

802.11g TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

Keysight Spectrum Analyzer - Occupied BW	1				
RF 50 Ω AC Center Freg 2.412000000		INSE:INT reg: 2.412000000 GHz	ALIGN AUTO	dio Std: None	Frequency
Center 11eq 2.4 12000000	Trig: Fre	e Run Avg Hold		dio Device: BTS	
	#IFGain:Low #Atten: 3	50 dB			
15 dB/div Ref 30.00 dBm				2.41947 GHz 4.2309 dBm	
Log					
15.0			├── � ¹ ┌┼──		Center Freq
0.00 mm	- Andrew Marson Marry		min		2.412000000 GHz
-15.0					
-30.0 Juna market and the second seco				mon marken	
-45.0					
-60.0					
-75.0					
-90.0					
-105					
Center 2.412 GHz				Span 30 MHz	
#Res BW 100 kHz	#VE	300 kHz	Sv	veep 3.733 ms	CF Step 3.000000 MHz
		Total Power	21.8 dE		<u>Auto</u> Man
Occupied Bandwidt		rotar Power	21.0 0	SITI	
16	6.466 MHz				Freq Offset
Transmit Freq Error	-29.235 kHz	% of OBW Pow	er 99.00	%	0 Hz
x dB Bandwidth	16.38 MHz	x dB	-6.00		
	10.30 MINZ	X UB	-0.00	uВ	
MSG			STATUS		
			5.4100		



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



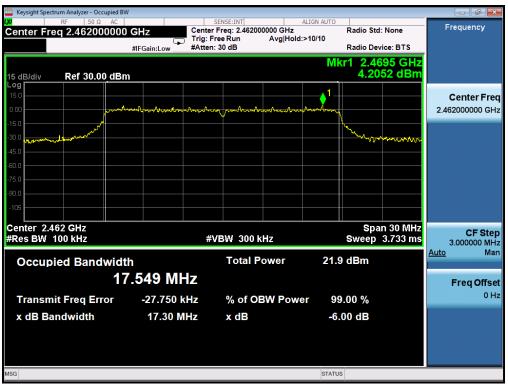


802.11n (20) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

Keysight Spectrum Analyzer - Occupied BW						
Image: New York RF 50 Ω AC AC	Trig:	SENSE:INT ter Freq: 2.437000000 GH Free Run Avg f en: 30 dB	ALIGN AUTO Hz Hold:>10/10	Radio Std: Radio Devic		Frequency
15 dB/div Ref 30.00 dBm			MI	kr1 2.429 4.980	95 GHz 15 dBm	
15.0 15.0 1 0.00 15.0 1	······································	how purch was how	Annahan	\ \		Center Fred 2.437000000 GH2
-15.0 -30.0 -45.0				Marine Alleren	mantan	
-60.0						
-90.0						
Center 2.437 GHz #Res BW 100 kHz		#VBW 300 kHz		Span Sweep 3		CF Step 3.000000 MH;
Occupied Bandwidth	551 MHz	Total Power	22.3	3 dBm		<u>Auto</u> Mar
Transmit Freq Error	-26.159 kHz	% of OBW P	ower 99	9.00 %		Freq Offse 0 Ha
x dB Bandwidth	17.06 MHz	x dB	-6.	.00 dB		
MSG			STATU	s		

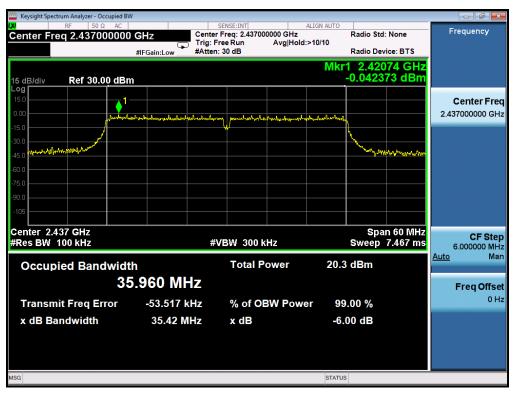


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

802.11n (40) TEST RESULT

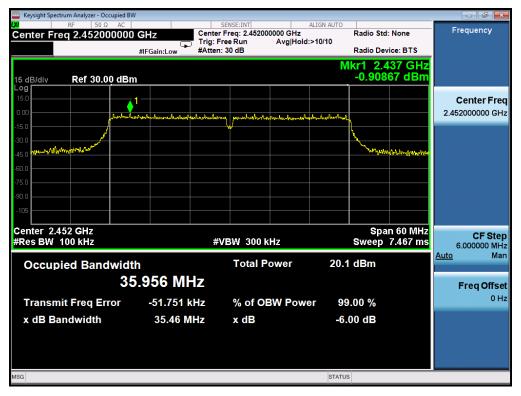
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

Keysight Spectrum Analyzer - Occupied BV	/				
Center Freq 2.422000000		SENSE:INT Freq: 2.422000000 GHz	ALIGN AUTO Radio	Std: None	Frequency
Center Fred 2.422000000	Trig: F	ree Run Avg Hold	d:>10/10		
	#IFGain:Low #Atten	: 30 dB		Device: BTS	
			Mkr1 2.4	0574 GHz	
15 dB/div Ref 30.00 dBn	n		-0.4	6541 dBm	
15.0					Center Freq
0.00					2.422000000 GHz
-15.0	ert-subschungendensbereit-gebanden	ny meriches his terrheiter with	harbyalaseleent		2.422000000 0112
-30.0			N		
-45 D Marshall Marshall			×~	March March &	
-60.0					
-75.0					
-90.0					
-105					
Center 2.422 GHz			s	pan 60 MHz	OF Otom
#Res BW 100 kHz	#\	/BW 300 kHz		p 7.467 ms	CF Step 6.000000 MHz
					<u>Auto</u> Man
Occupied Bandwidt		Total Power	20.1 dBm		
35	5.964 MHz				Freq Offset
Transmit Freg Error	-50.794 kHz	% of OBW Pow	ver 99.00 %		0 Hz
x dB Bandwidth	35.47 MHz	x dB	-6.00 dB		
MSG			STATUS		



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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)

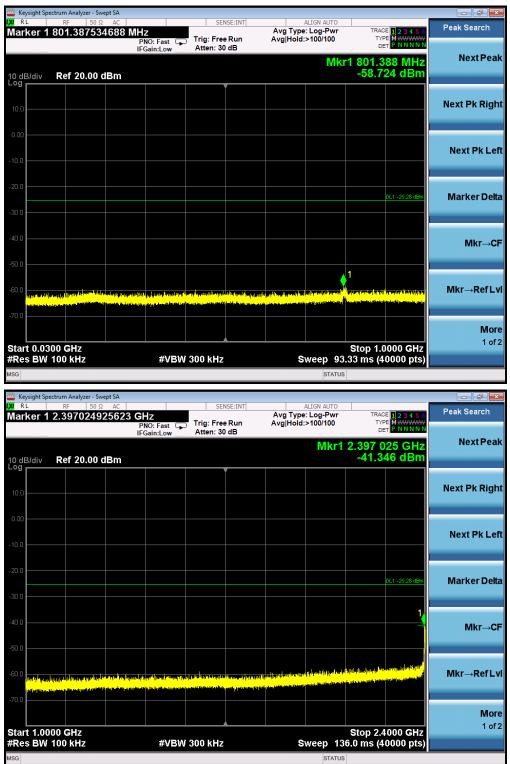
The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

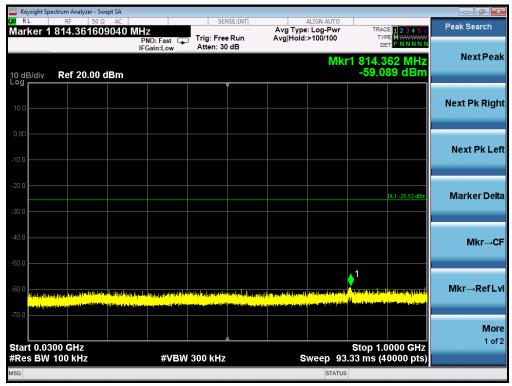
LIMITS AND MEA	SUREMENT RESULT			
Applieghte Limite	Measurement Result			
Applicable Limits	Test Data	Criteria		
In any 100 KHz Bandwidth Outside the	At least -30dBc than the limit			
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS		
intentional radiator is operating, the radio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



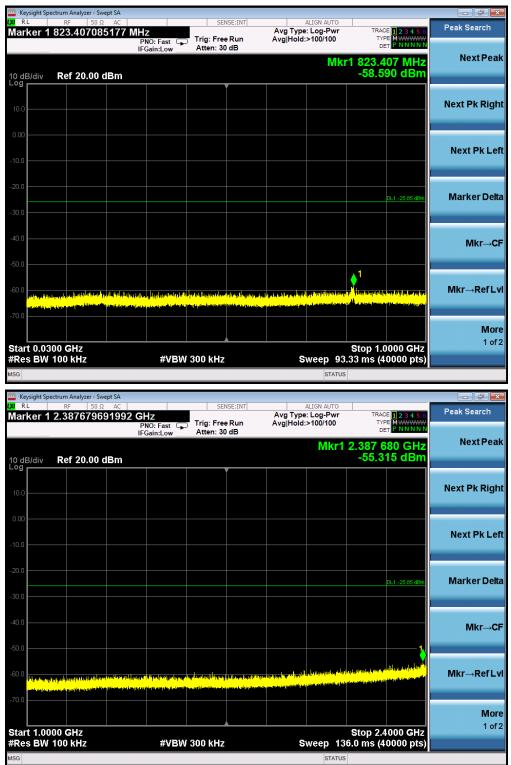
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11b FOR MODULATION IN LOW CHANNEL



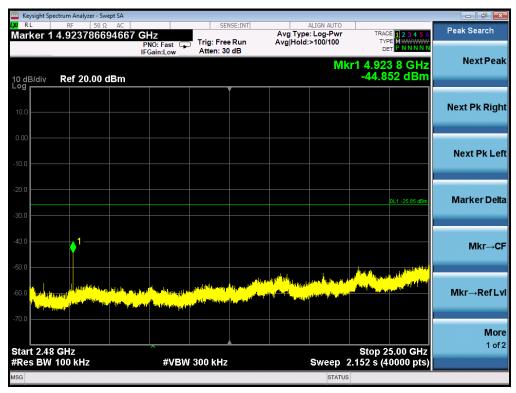
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



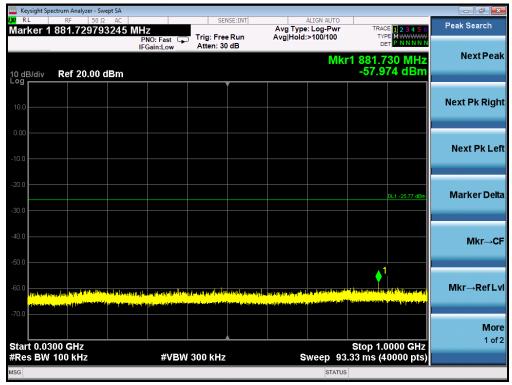
Keysight Sp R L	ectrum Analyzer - RF 50	Swept SA		SENSE:INT	ALIGN	AUTO		
larker 1	2.367554		GHZ PNO: Fast G		Avg Type: Log Avg Hold:>100/	-Pwr	TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N N	Peak Search
			IFGain:Low	Atten: 30 dB				NextPea
) dB/div	Ref 20.00	dBm			N	/kr1 2.30 -5	67 554 GHz 5.024 dBm	HCALL CL
				T T				
J.O								Next Pk Rig
.00								
D.0								Next Pk Le
0.0							DL1 -25.53 dBm	Marker De
).0								
).0								Mkr→C
).0							1	
).0 <mark>antella</mark>		and activation of the					Multiple and the state of the state bill produced in	Mkr→RefL
0.0	laig so is hit is a line			a la la ser e la ser enclarada e				
								Мо
art 1.00	000 GHz					Sto	p 2.4000 GHz	1 0
					_			
Res BW	100 kHz		#VBW	/ 300 kHz		p 136.0 n	ns (40000 pts)	
Res BW	100 kHz		#VBW	/ 300 kHz		p 136.0 n	ns (40000 pts)	
G G	100 KHz ectrum Analyzer -	Swept SA	#VBW	SENSE:INT	ALIGN	p 136.0 n status auto	ns (40000 pts)	
Res BW G Keysight Sp RL	100 KHz ectrum Analyzer -	Ω AC 229656 0	GHz PNO: Fast ⊂	SENSE:INT		p 136.0 n status AUTO -Pwr	1s (40000 pts)	Peak Search
Res BW G Keysight Sp RL	100 kHz ectrum Analyzer - RF 50	Ω AC 229656 0	GHz	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n status AUTO -Pwr /100	TRACE 123456 TYPE MWWWWW DET P N N N N N	Peak Search
Keysight Sp RL arker 1	100 kHz ectrum Analyzer - RF 50	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n status Auto -Pwr /100 Mikr1 4	1s (40000 pts)	Peak Search
Keysight Sp RL arker 1	100 kHz ectrum Analyzer - RF 50 4.873686	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n status Auto -Pwr /100 Mikr1 4	TRACE 1 2 3 4 5 6 TYPE MUNICIPAL OF PINNIN DET PINNINN .873 7 GHz	Peak Search
Reysight Sp RL arker 1 dB/div	100 kHz ectrum Analyzer - RF 50 4.873686	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n status Auto -Pwr /100 Mikr1 4	TRACE 1 2 3 4 5 6 TYPE MUNICIPAL OF PINNIN DET PINNINN .873 7 GHz	Peak Search Next Pea
Keysight Sp RL arker 1 dB/div	100 kHz ectrum Analyzer - RF 50 4.873686	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n status Auto -Pwr /100 Mikr1 4	TRACE 1 2 3 4 5 6 TYPE MUNICIPAL OF PINNIN DET PINNINN .873 7 GHz	Peak Search Next Pea
Res BW Revsight Sp RL arker 1 dB/div g	100 kHz ectrum Analyzer - RF 50 4.873686	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n status Auto -Pwr /100 Mikr1 4	TRACE 1 2 3 4 5 6 TYPE MUNICIPAL OF PINNIN DET PINNINN .873 7 GHz	Peak Search Next Pea Next Pk Rig
Keysight Sp RL arker 1 dB/div	100 kHz ectrum Analyzer - RF 50 4.873686	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n status Auto -Pwr /100 Mikr1 4	TRACE 1 2 3 4 5 6 TYPE MUNICIPAL OF PINNIN DET PINNINN .873 7 GHz	Peak Search Next Pea Next Pk Rig
Keysight Sp RL arker 1 00 00	100 kHz ectrum Analyzer - RF 50 4.873686	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n status Auto -Pwr /100 Mikr1 4	TRACE 1 2 3 4 5 6 TYPE MUNICIPAL OF PINNIN DET PINNINN .873 7 GHz	Peak Search Next Pea Next Pk Rig
Keysight Sp RL arker 1 dB/div	100 kHz ectrum Analyzer - RF 50 4.873686	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n status Auto -Pwr /100 Mikr1 4	TRACE 1 2 3 4 5 6 TYPE MUNICIPAL OF PINNIN DET PINNINN .873 7 GHz	Peak Search Next Pea Next Pk Rig Next Pk Le
Keysight Sp RL arker 1 dB/div 9 00 00	100 kHz ectrum Analyzer - RF 50 4.873686	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n status Auto -Pwr /100 Mikr1 4	TRACE 1 2 3 4 5 6 TYPE MUNITOR OF THE STATE	Peak Search Next Pea Next Pk Rig Next Pk Le
Keysight Sp RL arker 1 arker 1	100 kHz ectrum Analyzer - RF 50 4.873686 Ref 20.00	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n status Auto -Pwr /100 Mikr1 4	TRACE 1 2 3 4 5 6 TYPE MUNITOR OF THE STATE	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De
Res BW Keysight Sp RL arker 1 dB/div 9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	100 kHz ectrum Analyzer - RF 50 4.873686	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n status Auto -Pwr /100 Mikr1 4	TRACE 1 2 3 4 5 6 TYPE MUNITOR OF THE STATE	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Research Second 0 dB/div 0 dB/div 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	100 kHz ectrum Analyzer - RF 50 4.873686 Ref 20.00	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n status AUTO -PWr /100 Mkr1 4 -4	TRACE 2 3 4 5 6 TYPE M NUNNIN BET PNNNN 873 7 GHz 5.148 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De
Res BW G Keysight Sp R L arker 1 0 dB/div 9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	100 kHz ectrum Analyzer - 50 Ref 20.00	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n STATUS AUTO -PWr /100 Mkr1 4 -4	TRACE 2 3 4 5 6 TYPE M NUMBER DET P NUMBER 873 7 GHz 5.148 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→C
Res BW G G Keysight Sp RL G G G G G G G G G G G G G G G G G G	100 kHz ectrum Analyzer - RF 50 4.873686 Ref 20.00	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n STATUS AUTO -PWr /100 Mkr1 4 -4	TRACE 1 2 3 4 5 6 TYPE MANNAN BET PANNAN 5.148 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C
Res BW G Keysight Sp RL G G G G G G G G G G G G G G G G G G	100 kHz ectrum Analyzer - 50 Ref 20.00	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n STATUS AUTO -PWr /100 Mkr1 4 -4	TRACE 2 3 4 5 6 TYPE M NUMBER DET P NUMBER 873 7 GHz 5.148 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C
Res BW RL arker 1 dB/div g dB/div g db/div g db/div g db/div g db/div g db/div g db/div g db/div g db/div g db/div g db/div g db/div g db/div g db/div db/di db/div db/div db/div db/div db/div db/div	100 kHz ectrum Analyzer - 50 Ref 20.00 0 1 1 1 1 1 1 1 1 1 1 1 1 1	Ω AC 229656 (GHz PNO: Fast ⊂	SENSE:INT	ALIGN Avg Type: Log	p 136.0 n status	TRACE 1 2 3 4 5 5 TYPE M 4 4 5 5 TYPE M 4 4 5 5 TYPE M 1 4 5 5 TYPE M 1 4 5 5 1 2 3 4 5 5 TYPE M 1 4 5 5 1 2 3 4 5 5 TYPE M 1 4 5 5 1 2 3 4 5 5 1 2	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C Mkr→Ref L
Research RL I RL I I Image: Second	100 kHz ectrum Analyzer - 50 Ref 20.00 0 1 1 1 1 1 1 1 1 1 1 1 1 1	Ω AC 229656 (SHZ PNO: Fast FGain:Low	SENSE:INT		p 136.0 n STATUS AUTO -PWr /100 MKr1 4 -4 -4 -4 -4 -4 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	TRACE 2 3 4 5 6 TYPE M NUMBER DET P NUMBER 873 7 GHz 5.148 dBm	Peak Search Next Pea Next Pk Righ Next Pk Le Marker Del Mkr-C Mkr-Ref L



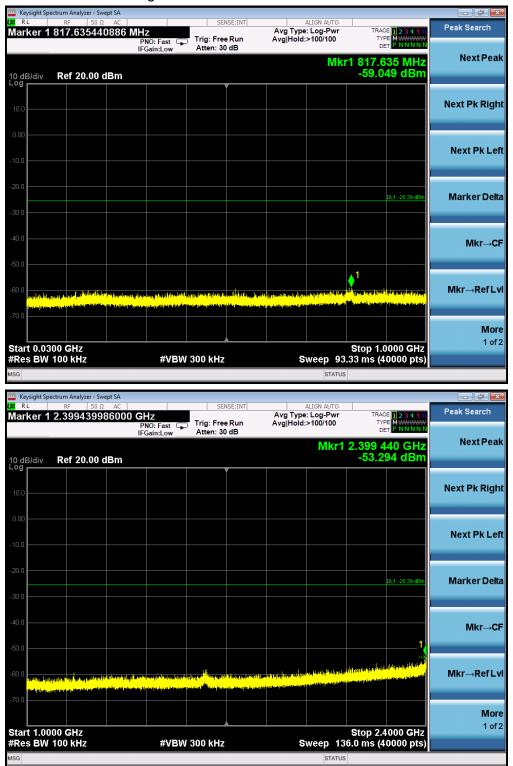
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN HIGH CHANNEL



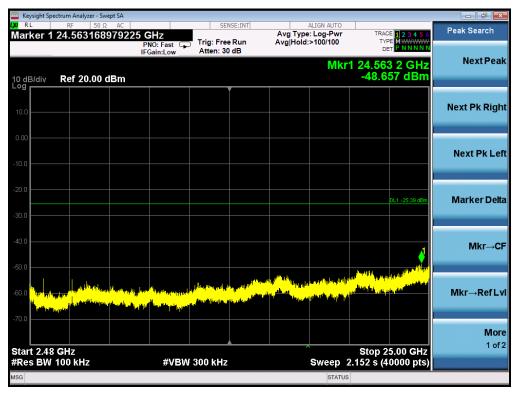
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL



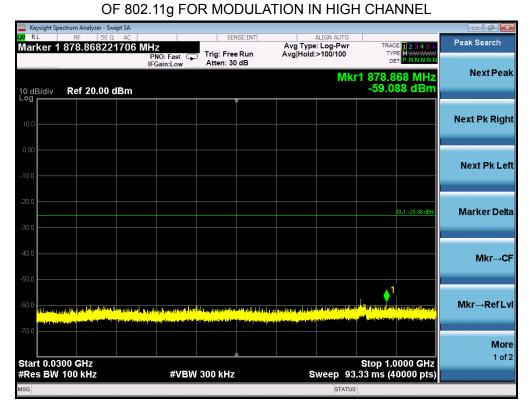
KI RL		Ω AC		SEN	ISE:INT		ALIGN AUTO			Peak Search
larker 1	2.399824		HZ PNO:Fast ⊂	Trig: Free		Avg Type Avg Hold:	: Log-Pwr >100/100	1	ACE 1 2 3 4 5 6 YPE MWWWW	Peak Search
		I	FGain:Low	Atten: 30	dB		Mket		B25 GHz	NextPea
) dB/div	Ref 20.00) dBm						-29.	307 dBm	
10.0										Next Pk Rig
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0.0	na na hana na hala da kana na hara	an ^{an} tanàn dia mampilana kao	ne mainte airte i ar tha	and thruch	and the local part of the		Life & Header	Report Lang		Mkr→RefL
<mark>, washaran</mark>		and the full plants, see has	na nikala paka nika d	a la tata na kata kata	an (in a linear link of	al a second all a la definitation de	and a second life second s			
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tart 1.00	00 GHz							Stop 2	.4000 GHz	10
tart 1.00 Res BW	00 GHz 100 kHz		#VBW	v 300 kHz		s	weep 13	Stop 2 6.0 ms	.4000 GHz (40000 pts)	
			#VBW	V 300 kHz		s	weep 13 status	6.0 ms	.4000 GHz (40000 pts)	
Res BW	100 kHz		#VBW				STATUS	6.0 ms	.4000 GHz (40000 pts)	
Res BW	100 kHz	Ω AC 5615390	GHz	SEN	ISE:INT		STATUS	6.0 ms	(40000 pts)	
Res BW G Keysight Spe RL	100 kHz ectrum Analyzer - RF 50	Ω AC 5615390		SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms (40000 pts) ACE 123456 YPE M	Peak Search
Res BW G Keysight Spe RL arker 1	100 kHz ectrum Analyzer - RF 50	ο Ω AC 5615390 Π	GHz PNO: Fast) Trig: Free	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms ((40000 pts)	Peak Search
Res BW Reysight Spo RL arker 1 0 dB/div	100 kHz ectrum Analyzer - ℝF 50 24.98761	ο Ω AC 5615390 Π	GHz PNO: Fast) Trig: Free	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms (40000 pts)	Peak Search
Res BW G RL arker 1 dB/div	100 kHz ectrum Analyzer - ℝF 50 24.98761	ο Ω AC 5615390 Π	GHz PNO: Fast) Trig: Free	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms (40000 pts)	Peak Search Next Pe
Res BW G Keysight Spe R L A C C C C C C C C C C C C C C C C C C	100 kHz ectrum Analyzer - ℝF 50 24.98761	ο Ω AC 5615390 Π	GHz PNO: Fast) Trig: Free	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms (40000 pts)	Peak Search Next Pe
Res BW G Keysight Spe R L A C C C C C C C C C C C C C C C C C C	100 kHz ectrum Analyzer - ℝF 50 24.98761	ο Ω AC 5615390 Π	GHz PNO: Fast) Trig: Free	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms (40000 pts)	Peak Search Next Pe Next Pk Rig
Res BW G Keysight Spo RL arker 1 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz ectrum Analyzer - ℝF 50 24.98761	ο Ω AC 5615390 Π	GHz PNO: Fast) Trig: Free	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms (40000 pts)	Peak Search Next Pea Next Pk Rig
Res BW G Keysight Spo RL Iarker 1 O dB/div O g 0.00 0.00	100 kHz ectrum Analyzer - ℝF 50 24.98761	ο Ω AC 5615390 Π	GHz PNO: Fast) Trig: Free	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms (40000 pts)	Peak Search Next Pea Next Pk Rig
Res BW G Keysight Spo RL Iarker 1 O dB/div O g 0.00 0.00	100 kHz ectrum Analyzer - ℝF 50 24.98761	ο Ω AC 5615390 Π	GHz PNO: Fast) Trig: Free	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms (40000 pts)	Peak Search Next Pea Next Pk Rig
Res BW ag keysight Spo RL larker 1 0 dB/div 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz ectrum Analyzer - ℝF 50 24.98761	ο Ω AC 5615390 Π	GHz PNO: Fast) Trig: Free	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms (40000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Li
Res BW ag Keysight Spe RL larker 1 0 dB/div 9 9 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz ectrum Analyzer - ℝF 50 24.98761	ο Ω AC 5615390 Π	GHz PNO: Fast) Trig: Free	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms (40000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De
Res BW G G Keysight Spectra RL G G G G G G G G G G G G G G G G G G	100 kHz ectrum Analyzer - ℝF 50 24.98761	ο Ω AC 5615390 Π	GHz PNO: Fast) Trig: Free	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms (40000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De
Res BW	100 kHz ectrum Analyzer - ℝF 50 24.98761	ο Ω AC 5615390 Π	GHz PNO: Fast	Trig: Free Atten: 30		Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms i	40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lu
Res BW ag keysight Spegar RL D dB/div	100 kHz ectrum Analyzer - ℝF 50 24.98761	ο Ω AC 5615390 Π	GHz PNO: Fast	SEM		Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms i	40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr-d
Res BW 3G Revsight Spectrum RL Iarker 1 0 dB/div	100 kHz ectrum Analyzer - ℝF 50 24.98761	ο Ω AC 5615390 Π	GHz PNO: Fast	C SEN Trig: Free Atten: 30		Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms i	40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr-d
Res BW G Keysight Spe RL arker 1 O G O G O O O O O O O O O O O O O	100 kHz ectrum Analyzer - ℝF 50 24.98761	ο Ω AC 5615390 Π	GHZ PNO: Fast Gain:Low	C SEN Trig: Free Atten: 30		Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms i	40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr→Ref L
Res BW R RL Arker 1 Arker	100 kHz ectrum Analyzer - RF 50 24.98761 Ref 20.00	ο Ω AC 5615390 Π	GHZ PNO: Fast Gain:Low	C SEN Trig: Free Atten: 30		Avg Type	STATUS ALIGN AUTO 2: Log-Pwr 2:>100/100	6.0 ms i	40000 pts)	Peak Search Next Peak Next Pk Rig Next Pk Lu Marker De Mkr→Ref L Mkr→Ref L
Res BW G Keysight Spectrum R C G G G G G G G G G G G G G G G G G G	100 kHz ectrum Analyzer - RF 50 24.98761 Ref 20.00	ο Ω AC 5615390 Π	GHZ PNO: Fast Gain:Low	C SEN Trig: Free Atten: 30		Avg Type	STATUS	6.0 ms (40000 pts)	



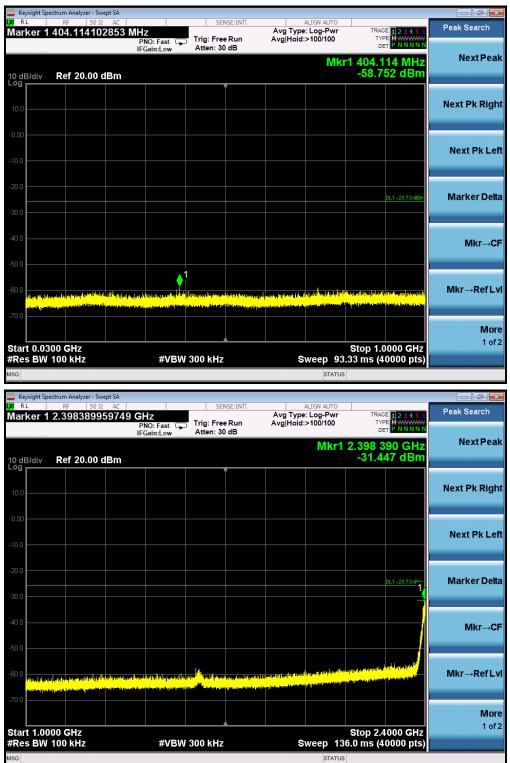
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN MIDDLE CHANNEL



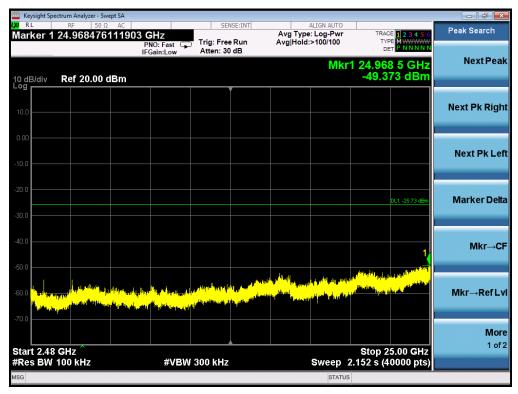
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE



Keysight Sp	ectrum Analyzer - 1 RF 50	Ω AC		SENSE:INT		ALIGN AUTO			
	2.277846	946174 G	Hz PNO: Fast 🖵			: Log-Pwr	TYPE	23456	Peak Search
			-Gain:Low	Atten: 30 dB			DET		NextPea
) dB/div	Ref 20.00	dBm				MKr1 2	2.277 84 -54.566	/ GHZ 6 dBm	HOATT OF
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0.0									Next Pk Rig
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	000 GHz 100 kHz		#VBW	300 kHz	S	weep 136	Stop 2.40 .0 ms (400		1 o
itart 1.00 Res BW			#VBW	/ 300 kHz	S				1 oʻ
Res BW	100 kHz		#VBW			weep 136. status			
Res BW SG Keysight Sp RL	100 kHz	Ω AC 000000 G	iHz	SENSE:INT	Avg Type	ALIGN AUTO	.0 ms (400	100 pts)	
Res BW sG Keysight Sp RL	100 kHz ectrum Analyzer - 5 RF 50	Ω AC 000000 G		SENSE:INT		weep 136 STATUS	.0 ms (400 TRACE TYPE DET	2 3 4 5 6	Peak Search
Res BW G Keysight Sp RL Iarker 1	100 kHz ectrum Analyzer - 3 RF 50 2.483500	Ω AC 000000 G F IF	Hz PNO: Fast G	SENSE:INT	Avg Type	weep 136 STATUS	0 ms (400 TRACE TYPE DET 1 2,483	23456 NNNNN 5 GHz	ा छि। Peak Search
Res BW G Keysight Sp RL Iarker 1 0 dB/div	100 kHz ectrum Analyzer - 5 RF 50	Ω AC 000000 G F IF	Hz PNO: Fast G	SENSE:INT	Avg Type	weep 136 STATUS	.0 ms (400 TRACE TYPE DET	23456 NNNNN 5 GHz	Peak Search
Res BW G Keysight Sp RL Jarker 1 O dB/div	100 kHz ectrum Analyzer - 3 RF 50 2.483500	Ω AC 000000 G F IF	Hz PNO: Fast G	SENSE:INT	Avg Type	weep 136 STATUS	0 ms (400 TRACE TYPE DET 1 2,483	23456 NNNNN 5 GHz	Peak Search Next Pe
Res BW G Keysight Sp RL Jarker 1 O dB/div O dB/div	100 kHz ectrum Analyzer - 3 RF 50 2.483500	Ω AC 000000 G F IF	Hz PNO: Fast G	SENSE:INT	Avg Type	weep 136 STATUS	0 ms (400 TRACE TYPE DET 1 2,483	23456 NNNNN 5 GHz	Peak Search Next Pe
Res BW G Keysight Sp RL Iarker 1 0 dB/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz ectrum Analyzer - 3 RF 50 2.483500	Ω AC 000000 G F IF	Hz PNO: Fast G	SENSE:INT	Avg Type	weep 136 STATUS	0 ms (400 TRACE TYPE DET 1 2,483	23456 NNNNN 5 GHz	Peak Search Next Pea Next Pk Rig
Res BW G Keysight Sp RL larker 1 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz ectrum Analyzer - 3 RF 50 2.483500	Ω AC 000000 G F IF	Hz PNO: Fast G	SENSE:INT	Avg Type	weep 136 STATUS	0 ms (400 TRACE TYPE DET 1 2,483	23456 NNNNN 5 GHz	Peak Search Next Pea Next Pk Rig
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ectrum Analyzer - 3 RF 50 2.483500	Ω AC 000000 G F	Hz PNO: Fast G	SENSE:INT	Avg Type	weep 136 STATUS	0 ms (400 TRACE TYPE DET 1 2,483	23456 NNNNN 5 GHz	Peak Search Next Pea Next Pk Rig
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ectrum Analyzer - 3 RF 50 2.483500	Ω AC 000000 G F	Hz PNO: Fast G	SENSE:INT	Avg Type	weep 136 STATUS	1 2.483 -39.139	23456 NNNNN 5 GHz	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW G Keysight Sp RL Iarker 1 0 dB/div 9 10.0 0.00 0.00 0.00 0.00 0.00 0.00	100 kHz ectrum Analyzer - 3 RF 50 2.483500	Ω AC 000000 G F	Hz PNO: Fast G	SENSE:INT	Avg Type	weep 136 STATUS	1 2.483 -39.139	23456 4 4 5 6 8 8 8 8 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW Galacia	100 kHz ectrum Analyzer - 3 RF 50 2.483500	Ω AC 000000 G F	Hz PNO: Fast G	SENSE:INT	Avg Type	weep 136 STATUS	1 2.483 -39.139	23456 4 4 5 6 8 8 8 8 8 9 8 8 9 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 9 8 9 8 9 8 9 8	Peak Search Next Pea Next Pk Rig Next Pk Lu
Res BW Galacia	100 kHz ectrum Analyzer - 3 RF 50 2.483500	Ω AC 000000 G F	Hz PNO: Fast G	SENSE:INT	Avg Type	weep 136 STATUS	1 2.483 -39.139	23456 4 4 5 6 8 8 8 8 8 9 8 8 9 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 9 8 9 8 9 8 9 8	Peak Search Next Pea Next Pk Rig Next Pk Lu
Res BW G Keysight Sp. RL 1 Iarker 1 1 0 dB/div 9 10.0 9 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1	100 kHz ectrum Analyzer - 3 RF 50 2.483500	Ω AC 000000 G F	Hz PNO: Fast G	SENSE:INT	Avg Type	weep 136 STATUS	0 ms (400	2 3 4 5 6 2 3 4 5 6 2 NN NN N 5 GHz 0 dBm -25 36 dbn	Peak Search Next Pea Next Pk Rig Next Pk Lu
Res BW G Keysight Sp. RL Iarker 1 O dB/div 0 dB/div<	100 kHz ectrum Analyzer - 3 RF 50 2.483500	Ω AC 000000 G F	Hz PNO: Fast G	SENSE:INT	Avg Type	weep 136 STATUS	TRACE TYPE 1 2.483 3 -39.139	2 3 4 5 6 2 3 4 5 6 2 NN NN N 5 GHz 0 dBm -25 36 dbn	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De
Res BW SG Keysight Sp. RL Iarker 1 0 dB/div 9 10.0 9 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 ectrum Analyzer - 3 RF 50 2.483500	Ω AC 000000 G F	Hz PNO: Fast G	SENSE:INT Trig: Free Run Atten: 30 dB	Avg Type	weep 136 STATUS	0 ms (400	2 3 4 5 6 2 3 4 5 6 2 NN NN N 5 GHz 0 dBm -25 36 dbn	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
Res BW G Keysight Sp. RL Iarker 1 O dB/div 0 dB/div<	100 kHz ectrum Analyzer - 3 RF 50 2.483500		HZ PNO: Fast Gain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	Avg Type	weep 136 STATUS	0 ms (400	2 3 4 5 6 2 3 4 5 6 2 NN NN N 5 GHz 0 dBm -25 36 dbn	Peak Search Next Peak Next Pk Rig Next Pk Lo Marker De Mkr-A
Res BW G G Keysight Sp R L G G G G G G G G G G G G G G G G G G	100 kHz		HZ PNO: Fast Gain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	Avg Type	weep 136 STATUS	0 ms (400	23456 4444444 5GHz 0dBm	Peak Search Next Peak Next Pk Rig Next Pk Lu Marker De Mkr→Ref L
Res BW G (B)(div G (B)(div G (B)(div G (C) G (100 kHz		HZ PNO: Fast Gain:Low	SENSE:INT Trig: Free Run Atten: 30 dB		weep 136 STATUS	0 ms (400	2 3 4 5 6 4 4 5 GHz 0 dBm 1 .25 36 dbm	1 of Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→Ref L Mo 1 of

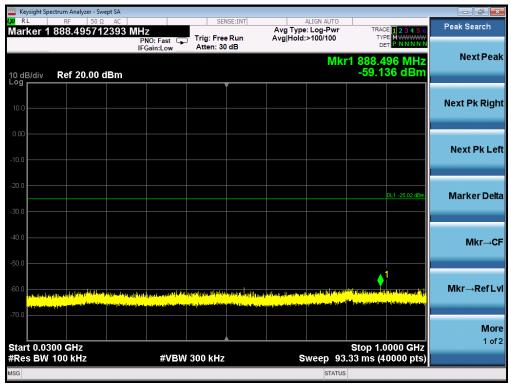


TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n20 FOR MODULATION IN LOW CHANNEL

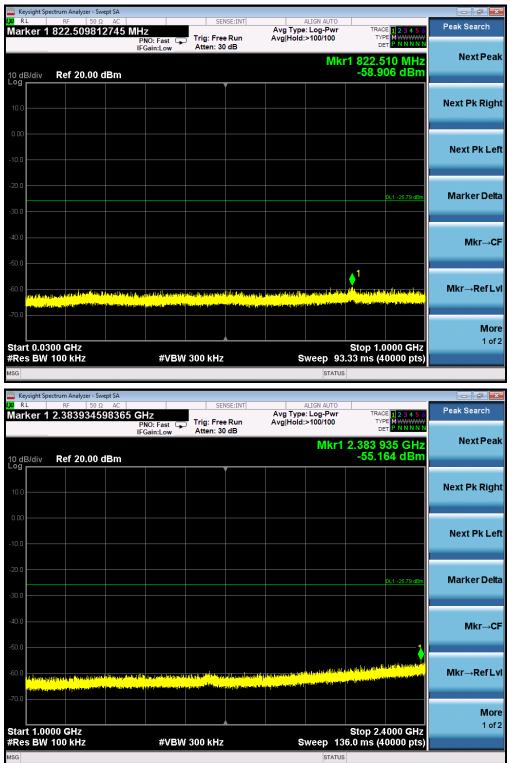


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE

OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL



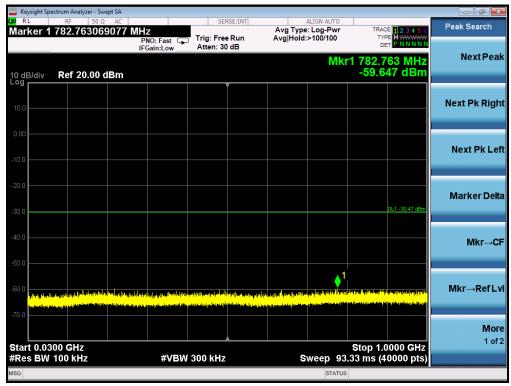
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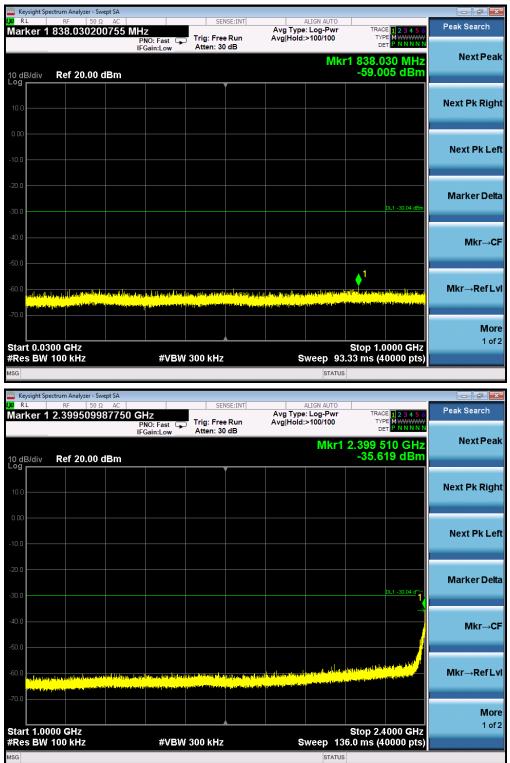
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL



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



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SG Keysight Sp ØRL	pectrum Analyzer -	Ω AC 3643591	GHz PNO: Fast	SENS	Run		STATUS ALIGN AUTO e: Log-Pwr	TRACE	123456 MWWWW PNNNNN	Peak Search
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN MIDDLE CHANNEL



TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE

OF 802.11n40 FOR MODULATION IN HIGH CHANNEL

Keysight Sp RL	ectrum Analyzer - So RF 50 9	wept SA Ω AC			ISE:INT		ALIGN AUTO			
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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	3.665	8	Pass
Middle Channel	4.256	8	Pass
High Channel	3.985	8	Pass

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

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-1.070	8	Pass
Middle Channel	-0.251	8	Pass
High Channel	-0.239	8	Pass

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

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-1.306	8	Pass
Middle Channel	-0.859	8	Pass
High Channel	-0.946	8	Pass

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

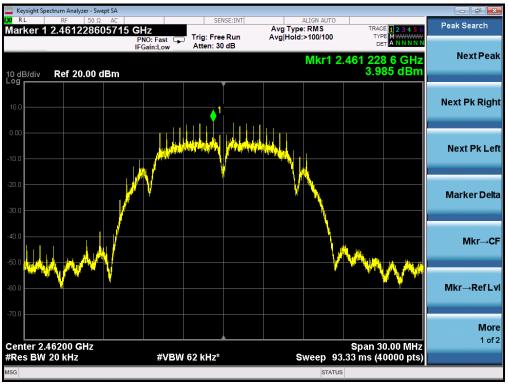
Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-5.305	8	Pass
Middle Channel	-4.903	8	Pass
High Channel	-4.986	8	Pass



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

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

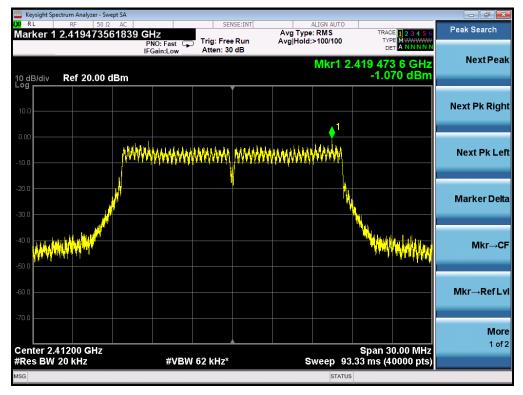


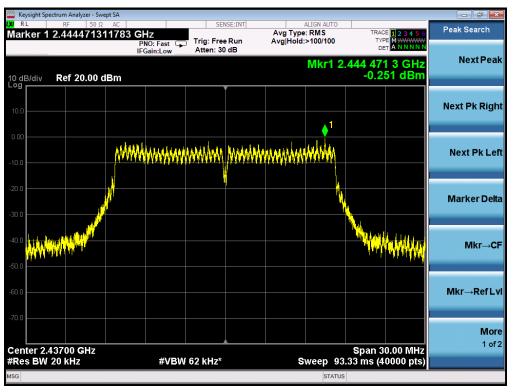


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

802.11g TEST RESULT

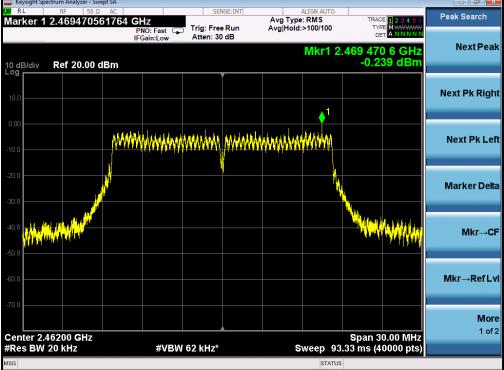
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

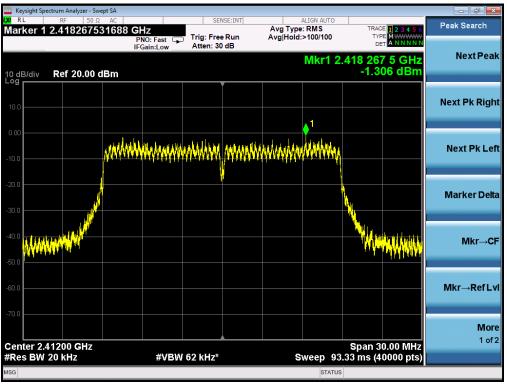




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

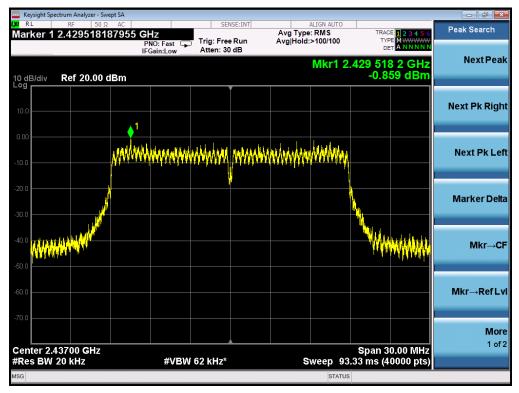
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL Keysight Spectrum Analyzer - Swept SA Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2" <th colspan="2"

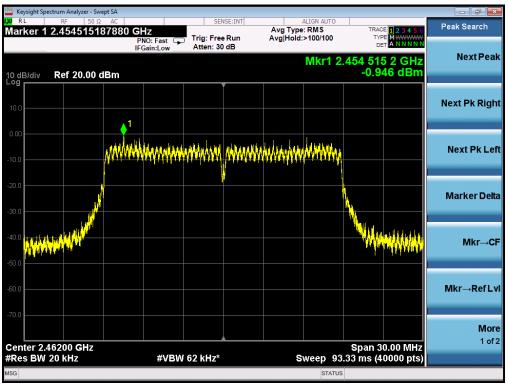




802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

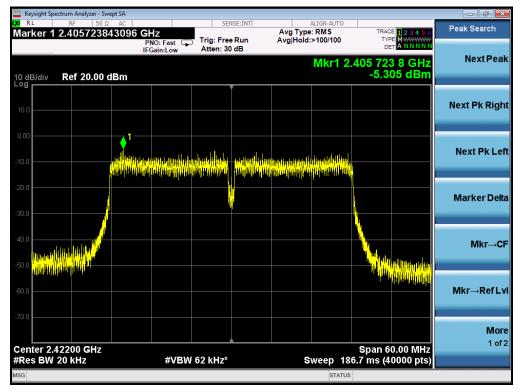


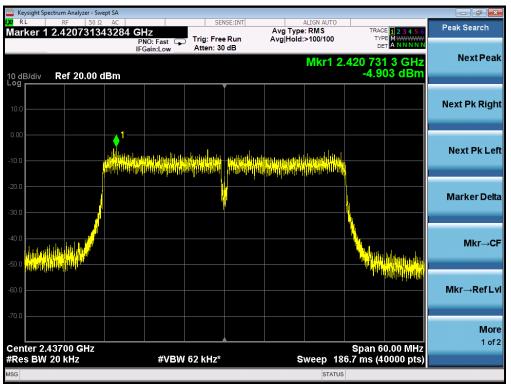


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

802.11n 40 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL





TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

Keysight Spectrum Analyzer - Swept SA					
X RL RF 50 Ω AC Marker 1 2.435728343209		e Run Avg Hol	ALIGN AUTO pe: RMS ld:>100/100	TRACE 1 2 3 4 5 6 TYPE M WWWWW DET A N N N N N	Peak Search
10 dB/div Ref 20.00 dBm	IFGain:Low Auen. 30		Mkr1 2.4	35 728 3 GHz -4.986 dBm	Next Peak
10.0					Next Pk Right
-10.0 1 -					Next Pk Left
-20.0					Marker Delta
-40.0				Wildenstein	Mkr→CF
-60.0					Mkr→RefLvl
-70.0 Center 2.45200 GHz				Span 60.00 MHz	More 1 of 2
#Res BW 20 kHz	#VBW 62 kHz*		Sweep 186.	7 ms (40000 pts)	

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

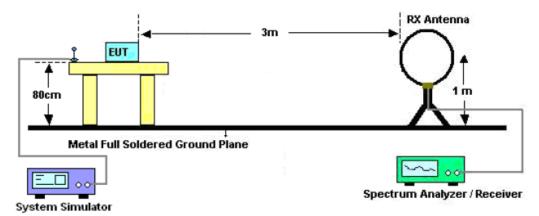
11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

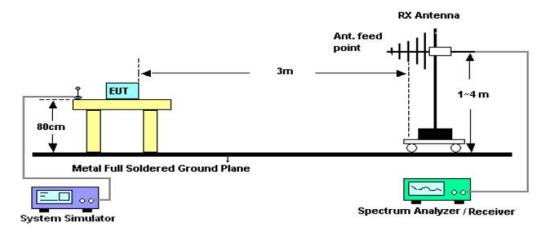
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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.

11.2. TEST SETUP

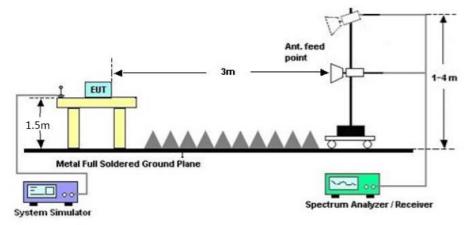
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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

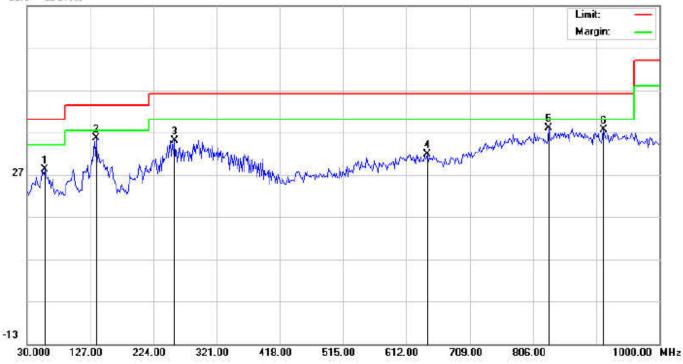
RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION BELOW 1GHZ

EUT	Intelligent Indoor dog potty	Model Name	DCC-01101
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

66.9 dBu¥/m

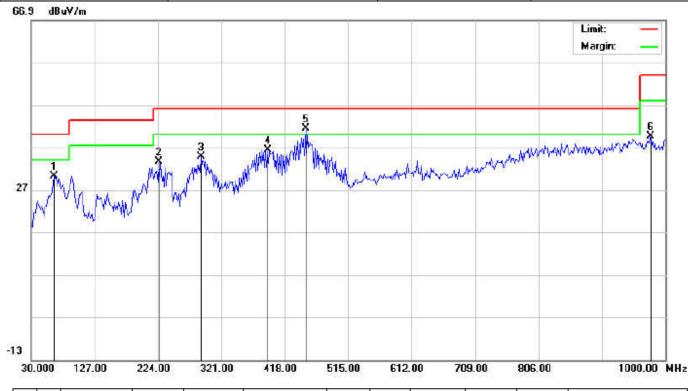


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		57.4833	7.51	20.76	28.27	40.00	-11.73	peak			
2	*	136.7000	15.90	19.68	35.58	43.50	-7.92	peak			
3		256.3333	15.26	19.82	35.08	46.00	-10.92	peak			
4		644.3333	1.85	29.89	31.74	46.00	-14.26	peak			
5		830.2500	4.30	33.62	37.92	46.00	-8.08	peak			
6		914.3167	2.72	34.81	37.53	46.00	-8.47	peak			

RESULT: PASS

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EUT	Intelligent Indoor dog potty	Model Name	DCC-01101	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical	



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		65.5667	11.24	19.05	30.29	40.00	-9.71	peak			
2		225.6167	14.65	19.05	33.70	46.00	-12.30	peak			
3		290.2833	13.60	21.27	34.87	46.00	-11.13	peak			
4		392.1333	11.85	24.55	36.40	46.00	-9.60	peak			
5	*	450.3333	15.40	26.00	41.40	46.00	-4.60	peak			
6		977.3667	4.14	35.44	39.58	54.00	-14.42	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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