

TEST REPORT

FCC PART 15 SUBPART C 15.247

Test report On Behalf of SHENZHEN NEO ELECTRONICS CO., LTD For WiEi omeke concer

WiFi smoke sensor Model No.: NAS-SD01W0

FCC ID: Z52NAS-SD01W0

Prepared for : SHENZHEN NEO ELECTRONICS CO., LTD East 6/F Building 2, Laobing industry, Baoan District, Shenzhen.

Prepared By :Shenzhen HUAK Testing Technology Co., Ltd.1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street,
Bao'an District, Shenzhen City, China

 Date of Test:
 Sep. 18, 2018 ~ Sep. 29, 2018

 Date of Report:
 Sep. 29, 2018

 Report Number:
 HK1809201130E



TEST RESULT CERTIFICATION

Standards	47 CFR FCC Part 15 Subpart C 15.247
Model and/or type reference:	NAS-SD01W0
Product name:	WiFi smoke sensor
Trade Mark:	NEO Coolcam
Product description	
Address:	East 6/F Building 2, Laobing industry, Baoan District, Shenzhen.
Manufacture's Name	SHENZHEN NEO ELECTRONICS CO., LTD
Address:	East 6/F Building 2, Laobing industry, Baoan District, Shenzhen.
Applicant's name	SHENZHEN NEO ELECTRONICS CO., LTD

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Date of Test
Date (s) of performance of tests
Date of Issue
Test Result

Sep. 18, 2018 to Sep. 29, 2018 Sep. 29, 2018 Pass

Testing Engineer

Gory Qian) (Gary Qian) Edan Mu (Eden Hu)

Technical Manager

:

Authorized Signatory :

pson 2

(Jason Zhou)



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1.SUMMARY

1.1 TEST STANDARDS

The tests were performed according to following standards:

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

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

KDB558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules.

1.2 TEST DESCRIPTION

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

NOTE: N/A stands for not applicable.



1.3 TEST FACILITY

1.3.1 Address of the test laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

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

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

1.3.2 Laboratory accreditation

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

IC Registration No.: 21210

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

FCC Registration No.: CN1229

Test Firm Registration Number : 616276

1.4 STATEMENT OF THE MEASUREMENT UNCERTAINTY

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

Hereafter the best measurement capability for HUAK laboratory is reported:

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

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

confidence level using a coverage factor of k=2.



2.GENERAL INFORMATION

2.1 ENVIRONMENTAL CONDITIONS

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

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

2.2 GENERAL DESCRIPTION OF EUT

Product Name:	WiFi smoke sensor
Model/Type reference:	NAS-SD01W0
Power supply:	DC6V by Battery
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Supported modes	802.11 b/g/n20
Operation Frequency	2.412 GHz~2.462GHz
Channel number:	11
Antenna type:	Fixed Antenna
Antenna gain:	0dBi
Hardware Version:	NAS_SD01W0_TV2
Software Version:	V1.0

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

2.3 DESCRIPTION OF TEST MODES AND TEST FREQUENCY

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

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11



NO.	TEST MODE DESCRIPTION				
1	Low channel TX				
2	Middle channel TX				
3	High channel TX				
4	Normal operating				
Note:	Note:				
Transm	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)					
Transm	Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)				

Note:

- 1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

2.4 RELATED SUBMITTAL(S) / GRANT (S)

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

2.5 MODIFICATIONS

No modifications were implemented to meet testing criteria.

MCS	Nss	Modulation	R NBPSC		odulation R NBPSC		NDBPS		Data rate(Mbps) 800nsGI	
Index					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

2.6. 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

2.7 EQUIPMENT USED

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

The calibration interval was one year



3. OUTPUT POWER

3.1. MEASUREMENT PROCEDURE

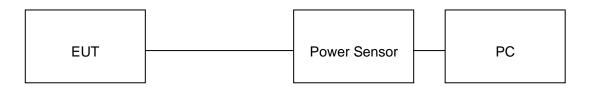
For average power test:

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

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

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

AVERAGE POWER SETUP





3.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	OUTPUT POWER
TEST MODE	802.11b with data rate 1

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	13.86	30	Pass
2.437	12.95	30	Pass
2.462	11.99	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	12.15	30	Pass
2.437	11.86	30	Pass
2.462	10.29	30	Pass

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

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	11.61	30	Pass
2.437	11.58	30	Pass
2.462	10.34	30	Pass



4.6 DB BANDWIDTH

4.1. MEASUREMENT PROCEDURE

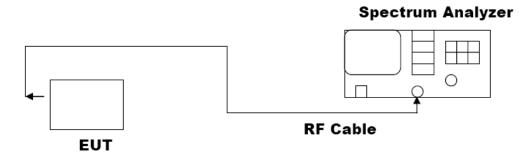
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator

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

- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \ge 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

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

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





4.3. LIMITS AND MEASUREMENT RESULTS

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

LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Applicable Limits			
	Test Da	ta (MHz)	Criteria	
	Low Channel	9.037	PASS	
>500KHZ	Middle Channel	8.529	PASS	
	High Channel	9.032	PASS	

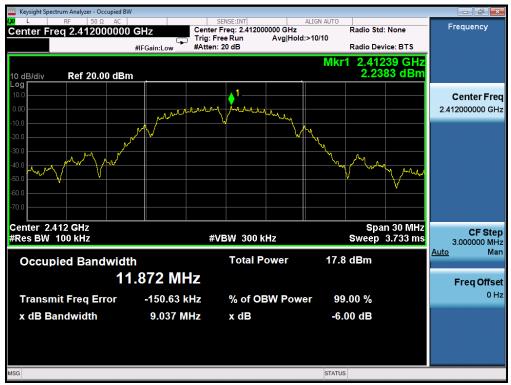
TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11g with data rate 54

LIMITS AND MEASUREMENT RESULT				
	Applicable Limits			
Applicable Limits	Test Data	a (MHz)	Criteria	
	Low Channel	16.33	PASS	
>500KHZ	Middle Channel	16.33	PASS	
	High Channel	16.33	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	Criteria				
	Low Channel	16.78	PASS			
>500KHZ	Middle Channel	16.58	PASS			
	High Channel	16.59	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					
Center Freg 2.412000000		ENSE:INT Freq: 2.412000000 GHz	ALIGN AUTO Radio S	td: None	Frequency
	#IEGain:Low #Atten:			evice: BTS	
	#I Gall.Low #/ tech		Mkr1 2.40		
10 dB/div Ref 15.00 dBm			-2.9	038 dBm	
5.00					Center Freq
-5.00	Andreaman	materialionation	huntry		2.412000000 GHz
-15.0			<u> </u>		
-25.0			when the second		
-35.0				www.	
-45.0					
-65.0					
-75.0					
Center 2.412 GHz #Res BW 100 kHz	-41) /1			oan 30 MHz 5 3.733 ms	CF Step
#Res DW TOURNZ	#VI	BW 300 kHz	Sweet		3.000000 MHz Auto Man
Occupied Bandwidth	1	Total Power	15.0 dBm		Auto
16	.400 MHz				Freq Offset
Transmit Freq Error	-107.52 kHz	% of OBW Pow	er 99.00 %		0 Hz
x dB Bandwidth	16.33 MHz	x dB	-6.00 dB		
MSG			STATUS		





TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

Keysight Spectrum Analyzer - Occupied BW K L R S0 Ω AC		SENSE:INT	ALIGN AUTO			
Center Freq 2.462000000		er Freq: 2.462000000	Hz	Radio Std	: None	Frequency
		FreeRun Avg en:30 dB	Hold:>10/10	Radio Dev	rice: BTS	
			Mk	r1 2.463		
10 dB/div Ref 20.00 dBm				-3.13	53 dBm	
Log 10.0						Center Freq
0.00		• ¹				2.462000000 GHz
-10.0 pr. My	Manhanahanah	my portration	monte			
-20.0			k			
-30.0				Mr www.		
-30.0 -40.0 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				- V NV	www.	
-50.0						
-60.0						
-70.0						
Center 2.462 GHz				Spa	n 30 MHz	CF Step
#Res BW 100 kHz		#VBW 300 kHz		Sweep	3.733 ms	3.000000 MHz
Occupied Bandwidth	n	Total Powe	r 14.	3 dBm		<u>Auto</u> Man
	.393 MHz					
						Freq Offset 0 Hz
Transmit Freq Error	-104.84 kHz	% of OBW F	ower 9	9.00 %		0 H2
x dB Bandwidth	16.33 MHz	x dB	-6	.00 dB		
MSG			STATI	JS		



Keysight Spect	trum Analyzer - Occupied E RF 50 Ω AC	3W	SENSE:INT	ALIGN			- 7
Center Fre	eq 2.41200000	0 GHz	Center Freg: 2.41200		Radio Std	: None	Frequency
	5q 2.41200000	\square	Trig: Free Run	Avg Hold:>10/1			
		#IFGain:Low	#Atten: 30 dB		Radio Dev		
					Mkr1 2.413		
10 dB/div	Ref 20.00 dB	m			-2.56	89 dBm	
Log 10.0							
			1				Center Free
0.00		mahunnan	. A 0 A.	who have have			2.412000000 GH
-10.0	- mr	WARD WORK ON THE WORK	with the part that we	ton over por a second	Lange		
-20.0							
-30.0	- Mar -				What was - 0 -		
-40.0	Jaw O (De V P				- WW	hordown	
50.0							
-60.0							
-70.0							
Center 2.4					Sna	n 30 MHz	
#Res BW			#VBW 300 k	Hz		3.733 ms	CF Step
			#•BH 0001		encep		3.000000 MH <u>Auto</u> Mai
Occup	ied Bandwid	th	Total P	ower	15.0 dBm		<u>Auto</u> Mai
			_				
		7.565 MH	Z				Freq Offse
Transm	it Freq Error	-101.71 kH	z % of O	3W Power	99.00 %		0 H
x dB Ba	Indwidth	16.78 M⊦	lz xdB		-6.00 dB		
ISG					STATUS		

802.11n (20) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

Keysight Spectrum Analyzer - Occupied K L RF 50 Ω AC	BW	SENSE:INT	ALIGN AUTO			
Center Freq 2.43700000		er Freq: 2.437000000 GH		Radio Std:	None	Frequency
		n: 30 dB	1010:>10/10	Radio Devi	ce: BTS	
10 dB/div Ref 10.00 dB	m		Mkr	1 2.438 -2.33	17 GHz 37 dBm	
0.00 -10.0	handrenderscher	1 m probant marked	holmolog			Center Fred 2.437000000 GHz
-20.0 -30.0 -40.0				Monor	www.	
-50.0						
-70.0						
Center 2.437 GHz #Res B₩ 100 kHz	#	¢VBW 300 kHz			n 30 MHz 3.733 ms	CF Step 3.000000 MH
Occupied Bandwid	lth	Total Power	15.0) dBm		<u>Auto</u> Mar
1	7.577 MHz					Freq Offse
Transmit Freg Error	-97.035 kHz	% of OBW Po	ower 99	9.00 %		0 H:
x dB Bandwidth	16.58 MHz	x dB		00 dB		
MSG			STATU	S		



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



5. CONDUCTED SPURIOUS EMISSION

5.1. MEASUREMENT PROCEDURE

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

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

The same as described in section 4.2.

5.3. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEA	LIMITS AND MEASUREMENT RESULT							
Appliachta Limita	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						



Karata C	O	ant SA			_					
L <mark>XI</mark> L	ectrum Analyzer - Sw RF 50 Ω 31.018525	AC		SEI	NSE:INT	Avg Type	ALIGN AUTO	TRA	CE 1 2 3 4 5 6	Peak Search
		F	PNO: Fast 🕞 Gain:Low	Trig: Free #Atten: 2		Avg Hold:	>100/100	D		
10 dB/div	Ref 10.00	dBm					M	kr1 31.0 -65.2)19 MHz 91 dBm	Next Peak
0.00										Next Pk Right
-10.0										
-20.0										Next Pk Left
-30.0									DL1 -27.76 dBm	
										Marker Delta
-40.0										
-50.0										Mkr→CF
-60.0 -1										
-70.0	LINE AND AND AND ADDRESS	Linterry Vision palate	and and the first state of the st	and the second	a and a state of the	adaya da kata kata ya	TING CALLY TO STATE	al avaira (in big a minara	er an	Mkr→RefLvi
-80.0	of a participation of the second s	n faran bara bara ara ara	الالىلىمەنىكى _{يەتىرى} يە	n na _{li} nda a su da ang kata a sa kata kata a sa kata kata a sa kata kat	and the second secon	a a filia na sa sa ka ka da a	n pana ang pang pang pang pang pang pang	in de la constant de la constant.	i harantata katatan ta	
										More
										1 of 2
Start 0.03 #Res BW	300 GHz 100 kHz		#VBW	/ 300 kHz		s	weep 93	Stop 1.4	0000 GHz 10000 pts)	1 of 2
			#VBW	/ 300 kHz		S	weep 93	.33 ms (4	0000 GHz 10000 pts)	1 of 2
#Res BW	2 100 kHz pectrum Analyzer - Sw RF 50 Ω	AC			NSE:INT		STATUS	.33 ms (4	10000 pts)	- 0 ×
#Res BW	100 kHz	AC 98250 G	Hz PNO: Fast	Trig: Free	NSE:INT		STATUS	3.33 ms (4	0000 GHz 0000 pts)	
#Res BW	7 100 kHz pectrum Analyzer - Sw RF 50 Ω 1 2.3999299	AC 98250 G	iHz	SEP	NSE:INT	Avg Type	ALIGN AUTO CLOG-PWr >100/100	2.33 ms (4	CE 123456 PE MWWWW ET P NNNN 30 GHz	Peak Search
#Res BW	2 100 kHz pectrum Analyzer - Sw RF 50 Ω	AC 98250 G	Hz PNO: Fast	Trig: Free	NSE:INT	Avg Type	ALIGN AUTO CLOG-PWr >100/100	2.33 ms (4	CE 1 2 3 4 5 6 PE MWWWW ET P N N N N	Peak Search
#Res BW MSG Keysight Sp Marker 1 10 dB/div	7 100 kHz pectrum Analyzer - Sw RF 50 Ω 1 2.3999299	AC 98250 G	Hz PNO: Fast	Trig: Free	NSE:INT	Avg Type	ALIGN AUTO CLOG-PWr >100/100	2.33 ms (4	CE 123456 PE MWWWW ET P NNNN 30 GHz	Peak Search Next Peak
#Res BW MSG Keysight Sj (X) L Marker 1 Marker 2 Log	7 100 kHz pectrum Analyzer - Sw RF 50 Ω 1 2.3999299	AC 98250 G	Hz PNO: Fast	Trig: Free	NSE:INT	Avg Type	ALIGN AUTO CLOG-PWr >100/100	2.33 ms (4	CE 123456 PE MWWWW ET P NNNN 30 GHz	Peak Search Next Peak
#Res BW Msg CM keysight Sp CM L Marker 1 10 dB/div Log 0.00	7 100 kHz pectrum Analyzer - Sw RF 50 Ω 1 2.3999299	AC 98250 G	Hz PNO: Fast	Trig: Free	NSE:INT	Avg Type	ALIGN AUTO CLOG-PWr >100/100	2.33 ms (4	CE 123456 PE MWWWW ET P NNNN 30 GHz	Peak Search
#Res BW MSG CM keysight Sj CM L Marker 1 10 dB/div Log -10.0 -20.0	7 100 kHz pectrum Analyzer - Sw RF 50 Ω 1 2.3999299	AC 98250 G	Hz PNO: Fast	Trig: Free	NSE:INT	Avg Type	ALIGN AUTO CLOG-PWr >100/100	2.33 ms (4	CE 123456 PE MWWWW ET P NNNN 30 GHz	Peak Search Next Peak Next Pk Right
#Res BW Msg CM keysight Sp CM L Marker 1 10 dB/div Log 0.00	7 100 kHz pectrum Analyzer - Sw RF 50 Ω 1 2.3999299	AC 98250 G	Hz PNO: Fast	Trig: Free	NSE:INT	Avg Type	ALIGN AUTO CLOG-PWr >100/100	2.33 ms (4	22 3 4 5 6 Регистирати Регистирати 300 GHz 46 dBm	Peak Search Next Peak Next Pk Right
#Res BW MSG CM keysight Sj CM L Marker 1 10 dB/div Log -10.0 -20.0	7 100 kHz pectrum Analyzer - Sw RF 50 Ω 1 2.3999299	AC 98250 G	Hz PNO: Fast	Trig: Free	NSE:INT	Avg Type	ALIGN AUTO CLOG-PWr >100/100	2.33 ms (4	22 3 4 5 6 Регистирати Регистирати 300 GHz 46 dBm	Peak Search Next Peak Next Pk Right Next Pk Left
#Res BW MSG CX L Marker 1 10 dB/div L 0 g -10 0 -10 0 -20 0 -30 0	7 100 kHz pectrum Analyzer - Sw RF 50 Ω 1 2.3999299	AC 98250 G	Hz PNO: Fast	Trig: Free	NSE:INT	Avg Type	ALIGN AUTO CLOG-PWr >100/100	2.33 ms (4	22 3 4 5 6 Регистирати Регистирати 300 GHz 46 dBm	Peak Search Next Peak Next Pk Right Next Pk Left
#Res BW Msg Keysight S V L G B C B C B C B C B C B C B C B C B C B	7 100 kHz pectrum Analyzer - Sw RF 50 Ω 1 2.3999299	AC 98250 G	Hz PNO: Fast	Trig: Free	NSE:INT	Avg Type	status ALIGN AUTO E Log-Pwr >100/100 MKr1	.33 ms (4	E 12:34.56 PE 12:34.56 MUNITOR MUNITOR PARAMENT PAR	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
#Res BW Mss Content State Marker 1 000	2 100 kHz cectrum Analyzer - Sw RF 50 Ω Ref 10.00 0	dBm	IHZ NO: Fast Gain:Low	Trig: Free #Atten: 2	vse:INT e Run 0 dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr1	.33 ms (4	E 12:34.56 PE 12:34.56 MUNITOR MUNITOR PARAMENT PAR	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
#Res BW Msg (X) L Marker 1 000 -100 -200 -200 -300 -300 -400 -500 -500 -500 -500	7 100 kHz pectrum Analyzer - Sw RF 50 Ω 1 2.3999299	dBm	IHZ NO: Fast Gain:Low	Trig: Free #Atten: 2	vse:JNT e Run 0 dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr1	.33 ms (4	E 12:34.56 PE 12:34.56 MANNEN 330 GHz 46 dBm DL1-27.76 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
#Res BW Mss Content State Marker 1 000	2 100 kHz cectrum Analyzer - Sw RF 50 Ω Ref 10.00 0	dBm	IHZ NO: Fast Gain:Low	Trig: Free #Atten: 2	vse:JNT e Run 0 dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr1	.33 ms (4	E 12:34.56 PE 12:34.56 MANNEN 330 GHz 46 dBm DL1-27.76 dBm	Peak Search Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvl More
#Res BW MSG (Keysight Sr. XA Code 10 dB/div Code -10.0 -10.0 -2	2 100 kHz	dBm	HZ PNO: Fast Gain:Low	Trig: Free #Atten: 2	VSE:INT		STATUS	5.33 ms (4	E 12:34.56 PE 12:34.56 MANNEN 330 GHz 46 dBm DL1-27.76 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF

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

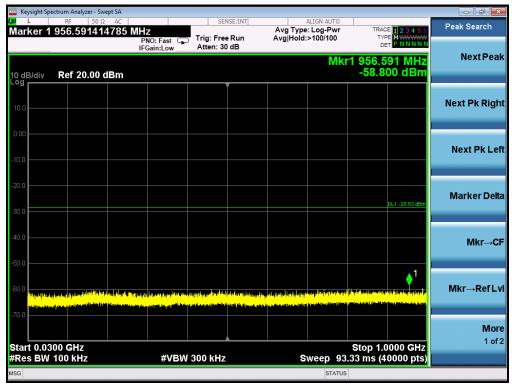
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL





Keysight Sp	bectrum Analyzer - S	wept SA								
<mark>u</mark> L	RF 50			SEN	SE:INT		ALIGN AUTO			Peak Search
larker 1	2.3988099	970249 G	NO: Fast 🕞	Trig: Free		Avg Type Avg Hold:	e: Log-Pwr :>100/100	TRAC	E 1 2 3 4 5 6 E M WWWW T P N N N N N	r cak ocarcin
		IF	Gain:Low	Atten: 30	dB					NextPeal
							MKr1	2.398 8	10 GHz 21 dBm	Next1 cu
0 dB/div	Ref 20.00	dBm						-50.1	21 0.60	
				Ī						
10.0										Next Pk Righ
0.00										
										Next Pk Lef
10.0										
20.0										Marker Delta
									DL1 -28.53 dBm	Marker Dela
30.0										
40.0										
+0.0										Mkr→Cl
50.0										
50.0	t g li ji barn denta matrikanst			. I. dam an welchen	t to a base		n da anda da i	<mark>a spinited di</mark>	handhi dalaa	Mkr→RefLv
		ni pi su vigi pipini ni pi		بد الذي والعرب المراجع ب محافظ والعرب المراجع ب	and the second	and the second		متقد من بالأنتاني <mark>ن ا</mark> ليام	, Hopeon Asha Ashahif	
70.0										
										More
Start 1.00	000 GH7							Stop 2.4	000 GHz	1 of 2
A COLLECTION OF										
≮Res BW	100 kHz		#VBV	V 300 kHz		S	weep 136	i.0 ms (4	0000 pts)	
#Res BW	100 kHz		#VBV	V 300 kHz		S	status	i.0 ms (4	0000 pts)	
ISG			#VBW	V 300 kHz		S).0 ms (4	0000 pts)	
ISG	100 kHz Dectrum Analyzer - S RF 50 J		#VBW		SE:INT		STATUS	6.0 ms (4	0000 pts)	
ISG Keysight Sp U	pectrum Analyzer - S	Ω AC 229656 GI	Hz	SEN	SE:INT	Avg Type	STATUS ALIGN AUTO e: Log-Pwr	6.0 ms (4	0000 pts)	Peak Search
SG Keysight Sp U	pectrum Analyzer - S RF 50 :	Ω AC 229656 GI		SEN	Run		STATUS ALIGN AUTO e: Log-Pwr	6.0 ms (4	0000 pts) E 123456 MWWWWWWWWWWWWWWWWWWWWWWWWWW	Peak Search
SG Keysight Sp L	pectrum Analyzer - S RF 50 :	Ω AC 229656 GI	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts) E] 2 3 4 5 6 M M P N N N N 3 7 GHz	
Keysight Sp L Marker 1	pectrum Analyzer - S RF 50 :	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts)	Peak Search
Keysight Sp L Marker 1	pectrum Analyzer - S RF 50 1 4.8736862	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts) E] 2 3 4 5 6 M M P N N N N 3 7 GHz	Peak Search
Keysight Sp L larker 1 0 dB/div	pectrum Analyzer - S RF 50 1 4.8736862	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts) E] 2 3 4 5 6 M M P N N N N 3 7 GHz	Peak Search Next Peal
Keysight Sp L larker 1 0 dB/div	pectrum Analyzer - S RF 50 1 4.8736862	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts) E] 2 3 4 5 6 M M P N N N N 3 7 GHz	Peak Search Next Peal
sg L larker 1 0 dB/div 0 g	pectrum Analyzer - S RF 50 1 4.8736862	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts) E] 2 3 4 5 6 M M M P N N N N 3 7 GHz	Peak Search Next Peal
sg keysight Sp L larker 1 o dB/div o g	pectrum Analyzer - S RF 50 1 4.8736862	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts) E] 2 3 4 5 6 M M M P N N N N 3 7 GHz	Peak Search Next Peal Next Pk Righ
sa keysight Sp larker 1 0 dB/div 9 0 0 0 0 0 0	pectrum Analyzer - S RF 50 1 4.8736862	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts) E] 2 3 4 5 6 M M M P N N N N 3 7 GHz	Peak Search Next Peal Next Pk Righ
C dB/div	pectrum Analyzer - S RF 50 1 4.8736862	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts) E] 2 3 4 5 6 M M M P N N N N 3 7 GHz	Peak Search Next Peal Next Pk Righ
C dB/div	pectrum Analyzer - S RF 50 1 4.8736862	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts) E] 2 3 4 5 6 M M M P N N N N 3 7 GHz	Peak Search Next Peal Next Pk Righ Next Pk Lef
C dB/div	pectrum Analyzer - S RF 50 1 4.8736862	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts) E] 2 3 4 5 6 M M M P N N N N 3 7 GHz	Peak Search Next Peal Next Pk Righ Next Pk Lef
sg Keysight Sp L Aarker 1 10.0 0.00 10.0 20.0	pectrum Analyzer - S RF 50 1 4.8736862	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts) E] 2 3 4 5 6 M M M P N N N N 3 7 GHz	Peak Search Next Peal Next Pk Righ Next Pk Lef
SG Keysight Sp L Aarker 1 0 dB/div 9 10.0 10	RF 50: RF 50: Ref 20.00	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts) E] 2 3 4 5 6 M M M P N N N N 3 7 GHz	Peak Search Next Peal Next Pk Righ Next Pk Lef
G C C C C C C C C C C C C C C C C C C C	pectrum Analyzer - S RF 50 1 4.8736862	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts) E] 2 3 4 5 6 M M M P N N N N 3 7 GHz	Peak Search Next Peal Next Pk Righ Next Pk Lef
SG Keysight Sp Iarker 1 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RF 50: RF 50: Ref 20.00	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts)	Peak Search Next Pea Next Pk Righ Next Pk Let Marker Delt
SG Keysight Sp Iarker 1 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RF 50: RF 50: Ref 20.00	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	5.0 ms (4	0000 pts)	Peak Search Next Pea Next Pk Righ Next Pk Let Marker Delt
SG Keysight Sp Iarker 1 Iarker 1 0 dB/div 0 dB/div </td <td>RF 50: RF 50: Ref 20.00</td> <td>Ω AC 229656 GI PI IFC</td> <td>Hz N0: Fast ⊂</td> <td>SEN</td> <td></td> <td></td> <td>STATUS ALIGN AUTO :: Log-Pwr :>100/100 MIKI</td> <td>5.0 ms (4</td> <td>0000 pts)</td> <td>Peak Search Next Pea Next Pk Righ Next Pk Lef Marker Delt Mkr→C</td>	RF 50: RF 50: Ref 20.00	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	SEN			STATUS ALIGN AUTO :: Log-Pwr :>100/100 MIKI	5.0 ms (4	0000 pts)	Peak Search Next Pea Next Pk Righ Next Pk Lef Marker Delt Mkr→C
SG Keysight Sp Aarker 1 Aarker 1 0.00	Ref 20.00	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	Trig: Free Atten: 30			STATUS ALIGN AUTO :: Log-Pwr :>100/100 MIKI	5.0 ms (4	0000 pts)	Peak Search Next Pea Next Pk Righ Next Pk Lef Marker Delt Mkr→C
SG Keysight Sp L Aarker 1 10.0 0.00 10.0	Ref 20.00	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	Trig: Free Atten: 30			STATUS ALIGN AUTO :: Log-Pwr :>100/100 MIKI	5.0 ms (4	0000 pts)	Peak Search Next Peal Next Pk Righ Next Pk Lef Marker Delt Mkr→Cl
SG Keysight Sp L Aarker 1 10.0 0.00 10.0	Ref 20.00	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	Trig: Free Atten: 30			STATUS ALIGN AUTO :: Log-Pwr :>100/100 MIKI	5.0 ms (4	0000 pts)	Peak Search Next Peal Next Pk Righ Next Pk Lef Marker Delt Mkr→Cl
SG Keysight Sp Aarker 1 Aarker 1 10.0 0.00 10.0	Pectrum Analyzer - 5 RF 50 : Ref 20.00	Ω AC 229656 GI PI IFC	Hz N0: Fast ⊂	Trig: Free Atten: 30			STATUS ALIGN AUTO :: Log-Pwr :>100/100 MIKI	5.0 ms (4	0000 pts)	Peak Search Next Peal Next Pk Righ Next Pk Lef Marker Delt Mkr→Ref Lv More
SG Keysight Sp Aarker 1 Aarker 1 10.0 0.00 10.0 20.0 20.0 40.0 50.0	Pectrum Analyzer - 5 RF 50 : Ref 20.00	Ω AC 229656 GI PI IFC	HZ NO: Fast Gain:Low	Trig: Free Atten: 30			STATUS ALIGN AUTO :: Log-Pwr :>100/100 MIKI	5.0 ms (4	0000 pts)	Peak Search

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Keysight Sp	RF 50 Ω	AC		SEN	ISE:INT		ALIGN AUTO			
larker 1	247.188429		lz			Avg Type	: Log-Pwr	TRA	CE 123456 PE MWWWWW ET P NNNN	Peak Search
			PNO:Fast ⊆ FGain:Low	Trig: Free Atten: 30		Avg Hold:	:>100/100	רז ם		
							Mkr	1 247.1	188 MHz	NextPe
0 dB/div	Ref 20.00 d	Bm						-59.4	85 dBm	
° ^g										
										Next Pk Rig
10.0										g
J.00										
0.0										Next Pk L
0.0										
									DL1 -28.73 dBm	Marker De
0.0									DE1 -20.73 (IBM	
40.0										Mkr→0
0.0										
		♦ ¹								Miles D. C.
0.0 <mark>hawaan</mark>	united to discutilated the	and the line of the second	the shirt of the	eleter a tille de	A MULTIPLE PROPERTY IN	ala di su da bayan di Ba		and the state of the	אר או יוש מיא אי א קאייר איי	Mkr→Refl
0.0	in any local distance in the second secon	يەرامالەر بايلىغار مەلەركە	alle and a state of the state o	ⁱⁿ nation a sin head fit	<mark>entel falle (fra en en pri</mark>	an and a share and a she are	a isologiai di sala		a Distances in Landa	
0.0										Mo
										1 0
tart 0.03	300 GHz		<i>(</i>)			_			0000 GHz	10
Res BW	100 kHz		#VBV	V 300 kHz		5	ween 93	33 ms (4	10000 pts)	
				1 OOO MITE				,		
SG				t out kille			STATUS			
	ectrum Analyzer - Swej	pt SA								
Keysight Sp	ectrum Analyzer - Swej RF 50 Ω	AC			ISE:INT		STATUS			Peak Search
Keysight Sp		AC 3209 G		SEN	Run		STATUS			Peak Search
Keysight Sp	RF 50 Ω	AC 3209 G	iHz	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	TRA TY D	CE 1 2 3 4 5 6 PE MWWWW ET P NNNN	Peak Search
L L arker 1	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /		Peak Search
Keysight Sp L larker 1	RF 50 Ω	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /	CE 1 2 3 4 5 6 PE MWWWW ET P NNNN	Peak Search
Keysight Sp L larker 1	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /		Peak Search Next Pe
CodB/div	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /		Peak Search Next Pe
Arker 1	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /		Peak Search Next Pe
, Keysight Sp L larker 1 o dB/div o g	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /		Peak Search Next Pe
keysight Sp L arker 1 0 dB/div 0 g	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /		Peak Search Next Pe Next Pk Rig
keysight Sp L arker 1 0 dB/div 0 g	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /		Peak Search Next Pe Next Pk Rig
Contraction of the second seco	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /		Peak Search Next Pe Next Pk Rig
Contraction of the second seco	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /		Peak Search Next Pe Next Pk Rig Next Pk Li
C dB/div	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /		Peak Search Next Pe Next Pk Rig Next Pk Li
C dB/div	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /	CE 2 3 4 5 6 PE 2 3 4 5 6 PE 128 GHz 97 dBm	Peak Search Next Pe Next Pk Rig Next Pk Li
Contraction of the second seco	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /	CE 2 3 4 5 6 PE 2 3 4 5 6 PE 128 GHz 97 dBm	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De
Keysight Sp	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /	CE 2 3 4 5 6 PE 2 3 4 5 6 PE 128 GHz 97 dBm	
Keysight Sp L Jarker 1 OdB/div Og 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /	CE 2 3 4 5 6 PE 2 3 4 5 6 PE 128 GHz 97 dBm	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De
Keysight Sp L J Addiv G	RF 50 Ω 2.33412835	AC 3209 G	Hz PNO: Fast	SEN	Run	Avg Type	STATUS ALIGN AUTO 2: Log-Pwr >100/100	тка ту 2.334 /	CE 2 3 4 5 6 PE 2 3 4 5 6 PE 128 GHz 97 dBm	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De
Keysight Sp arker 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Ref 20.00 d	AC 3209 G	HZ PNO: Fast G Gain:Low	SEN Atten: 30		Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr >100/100 MKr1	тка ту 2.334 /	CE 2 3 4 5 6 PE 2 3 6 7 PE 2 3 6 7	Peak Search Next Pe Next Pk Rig Next Pk L Marker De
Keysight Sp L Jarker 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	RF 50 Ω 2.33412835	AC 3209 G	HZ PNO: Fast G Gain:Low	SEN Atten: 30		Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr >100/100 MKr1	тка ту 2.334 /	CE 2 3 4 5 6 PE 2 3 6 7 PE 2 3 6 7	Peak Search Next Pe Next Pk Rig Next Pk Li Marker De Mkr→4
Keysight Sp L Jarker 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Ref 20.00 d	AC 3209 G	HZ PNO: Fast G Gain:Low	SEN Atten: 30		Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr >100/100 MKr1	тка ту 2.334 /	CE 2 3 4 5 6 PE 2 3 6 7 PE 2 3 6 7	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De
Keysight Sp L Jarker 1 0.00	Ref 20.00 d	AC 3209 G	HZ PNO: Fast G Gain:Low	SEN Atten: 30		Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr >100/100 MKr1	тка ту 2.334 /	CE 2 3 4 5 6 PE 2 3 6 7 PE 2 3 6 7	Peak Search Next Pe Next Pk Rig Next Pk Li Marker De Mkr→t
is keysight Sp iarker 1 iarker 1 0.00	RF 50 Ω 2.33412835 Ref 20.00 d	AC 3209 G	HZ PNO: Fast G Gain:Low	SEN Atten: 30		Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr >100/100 MKr1	2.334 -57.4	CE 2 3 4 5 6 PE 2 3 6 PE 2 3 6 PE 2 3 6 PE 2 3 6 PE	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr→Ref L
ikeysight Sp larker 1 odB/div og 0.00 0	Ref 20.00 d	AC 3209 G	HZ PNO: Fast G Gain:Low	SEN Atten: 30			ALIGN AUTO :: Log-Pwr >100/100 MIKT1	2.334 - -57.4	CE 2 3 4 5 6 PE 2 3 6 7 PE 2 3 4 5 6 PE 2 3 6 7 PE 2 3 6	Peak Search Next Pe Next Pk Rig Next Pk Li Marker De Mkr→t

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





- 5		ALIGN AUTO	NSE:INT	CT		vept SA	ectrum Analyzer - Sv RF 50 G	Keysight Sp
Peak Search	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	vg Type: Log-Pwr vg Hold:>100/100	e Run	Trin Francis	HZ PNO: Fast G	94750 G	2.3997899	
NextPea	2.399 790 GHz -38.869 dBm	Mkr1		, tach. oc	-Galli.Low		Dof 20.00	
			Ť	,,		авт	Ref 20.00	10 dB/div - ^{og}
Next Pk Righ								10.0
								0.00
Next Pk Le								-10.0
								20.0
Marker Delt								-20.0
	DL1 -32.90 dPm							-30.0
Min 0								-40.0
Mkr→C								
	i i							-50.0
Mkr→RefL	<mark>/</mark>							-60.0
	dina di anto dia mata da balan	, applications do antidade a state	a ta apata bila da ta	Hijke oordet geboer	the state of the s	la sa kasa Aya Kiti Kita	العامين البرام مراتي	-70.0 Junitation
	a human of striking a start of the strike strik	and the design of the data of	an da an	n a sector a sector a sec	al and failed for the out	department as internet	and the state of the	-7U.U Protection
Mor								
Mor 1 of	Stop 2.4000 GHz						00 GHz	Start 1.00
	Stop 2.4000 GHz 6.0 ms (40000 pts)			/ 300 kHz	#VBW			#Res BW
	Stop 2.4000 GHz 6.0 ms (40000 pts)	Sweep 13		/ 300 kHz	#VBW			
1 of	6.0 ms (40000 pts)		NSE:INT		#VBW	vept SA 2 AC	100 kHz ectrum Analyzer - Sv	#Res BW
1 of	6.0 ms (40000 pts)	STATUS	NSE:INT	Trig: Free	GHz PNO: Fast C	2 AC 342684 (P	100 kHz ectrum Analyzer - Sv	#Res BW ISG Keysight Sp
1 of	6.0 ms (40000 pts)	ALIGN AUTO vg Type: Log-Pwr vg Hold:>100/100	NSE:INT	SE	GHz	2 AC 342684 (P	100 kHz ectrum Analyzer - Sw RF 50 S	#Res BW ISG Keysight Sp
1 of	6.0 ms (40000 pts)	ALIGN AUTO vg Type: Log-Pwr vg Hold:>100/100	NSE:INT	Trig: Free	GHz PNO: Fast C	2 AC 342684 (P IF	100 kHz ectrum Analyzer - Sw RF 50 S	#Res BW ISG Keysight Sp
1 of Peak Search Next Pea	6.0 ms (40000 pts)	ALIGN AUTO vg Type: Log-Pwr vg Hold:>100/100	NSE:INT	Trig: Free	GHz PNO: Fast C	2 AC 342684 (P IF	100 kHz ectrum Analyzer - Sv RF 50 S 24.943707	#Res BW ISG Keysight Sp X L Marker 1 Marker 1 10 dB/div -09
1 of	6.0 ms (40000 pts)	ALIGN AUTO vg Type: Log-Pwr vg Hold:>100/100	NSE:INT	Trig: Free	GHz PNO: Fast C	2 AC 342684 (P IF	100 kHz ectrum Analyzer - Sv RF 50 S 24.943707	#Res BW ISG Keysight Sp X L Marker 1 10 dB/div
1 of Peak Search Next Pea	6.0 ms (40000 pts)	ALIGN AUTO vg Type: Log-Pwr vg Hold:>100/100	NSE:INT	Trig: Free	GHz PNO: Fast C	2 AC 342684 (P IF	100 kHz ectrum Analyzer - Sv RF 50 S 24.943707	#Res BW ISG Keysight Sp X L Marker 1 Marker 1 10 dB/div -09
1 of Peak Search Next Pea	6.0 ms (40000 pts)	ALIGN AUTO vg Type: Log-Pwr vg Hold:>100/100	NSE:INT	Trig: Free	GHz PNO: Fast C	2 AC 342684 (P IF	100 kHz ectrum Analyzer - Sv RF 50 S 24.943707	#Res BW tsg Keysight Sp X L Marker 1 10 dB/div -0 0.00
1 of Peak Search Next Pea Next Pk Righ	6.0 ms (40000 pts)	ALIGN AUTO vg Type: Log-Pwr vg Hold:>100/100	NSE:INT	Trig: Free	GHz PNO: Fast C	2 AC 342684 (P IF	100 kHz ectrum Analyzer - Sv RF 50 S 24.943707	#Res BW HSG Keysight Sp X L Marker 1 10 dB/div 0 10 0
1 of Peak Search Next Pea Next Pk Righ	6.0 ms (40000 pts)	ALIGN AUTO vg Type: Log-Pwr vg Hold:>100/100	NSE:INT	Trig: Free	GHz PNO: Fast C	2 AC 342684 (P IF	100 kHz ectrum Analyzer - Sv RF 50 S 24.943707	#Res BW tsg Keysight Sp X L Marker 1 10 dB/div -0 0.00
1 of Peak Search Next Pea Next Pk Righ	6.0 ms (40000 pts)	ALIGN AUTO vg Type: Log-Pwr vg Hold:>100/100	NSE:INT	Trig: Free	GHz PNO: Fast C	2 AC 342684 (P IF	100 kHz ectrum Analyzer - Sv RF 50 S 24.943707	#Res BW Iss Keysight Sp Z L Marker 1 10 dB/div 00 10.0
1 of Peak Search Next Pea Next Pk Righ	6.0 ms (40000 pts)	ALIGN AUTO vg Type: Log-Pwr vg Hold:>100/100	NSE:INT	Trig: Free	GHz PNO: Fast C	2 AC 342684 (P IF	100 kHz ectrum Analyzer - Sv RF 50 S 24.943707	Keysight Sp Keysight Sp Marker 1 0 dB/div 0 0.00
1 of Peak Search Next Pea Next Pk Righ	6.0 ms (40000 pts)	ALIGN AUTO vg Type: Log-Pwr vg Hold:>100/100	NSE:INT	Trig: Free	GHz PNO: Fast C	2 AC 342684 (P IF	100 kHz ectrum Analyzer - Sv RF 50 S 24.943707	#Res BW Isg Seysight Sp X L Marker 1 10 dB/div 00 -00 -10.0 -10.0 -20.0
1 of Peak Search Next Pea Next Pk Righ Next Pk Lei Marker Det	6.0 ms (40000 pts)	ALIGN AUTO vg Type: Log-Pwr vg Hold:>100/100	NSE:INT	Trig: Free	GHz PNO: Fast C	2 AC 342684 (P IF	100 kHz ectrum Analyzer - Sv RF 50 S 24.943707	Keysight Sp Keysight Sp Marker 1 0 dB/div 0 0.00
1 of Peak Search Next Pea Next Pk Righ Next Pk Lei Marker Delt	6.0 ms (40000 pts)	ALIGN AUTO vg Type: Log-Pwr vg Hold:>100/100	NSE:INT	Trig: Free Atten: 30	GHz NO: Fast Gain:Low	2 AC 342684 (P IF	100 kHz ectrum Analyzer - Sv RF 50 S 24.943707	Keysight Sp. Keysight Sp. Marker 1 10 dB/div -09 10.0 -00
1 of Peak Search Next Pea Next Pk Righ Next Pk Lei Marker Det	6.0 ms (40000 pts)	ALIGN AUTO vg Type: Log-Pwr vg Hold:>100/100	NSE:INT	Trig: Free Atten: 30	GHz NO: Fast Gain:Low	2 AC P P IF dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	100 kHz	#Res BW tsc Keysight Sp Marker 1 10 dB/div 00 dB/div 10.0 .00
1 of Peak Search Next Pea Next Pk Righ Next Pk Lei Marker Dett Mkr→C	6.0 ms (40000 pts)	STATUS	NSE:INT	Trig: Free Atten: 30	GHz NO: Fast Gain:Low	2 AC 342684 (P IF	100 kHz ectrum Analyzer - Sv RF 50 S 24.943707	#Res BW tsc Keysight Sp Marker 1 10 dB/div 00 dB/div 10.0 .00
1 of Peak Search Next Pea Next Pk Righ Next Pk Lei Marker Delt	6.0 ms (40000 pts)	STATUS	NSE:INT	Trig: Free Atten: 30	GHz NO: Fast Gain:Low	2 AC P P IF dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	100 kHz	Keysight Sp. Keysight Sp. Marker 1 10 dB/div -0 g -0 g
1 of Peak Search Next Pea Next Pk Righ Next Pk Lei Marker Delt Mkr→C Mkr→Ref Lu	6.0 ms (40000 pts)	STATUS		Trig: Free Atten: 30	CHZ PNO: Fast Gain:Low	2 AC P P IF dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	100 kHz	#Res BW Iss Keysight Sp Marker 1 10 dB/div -00

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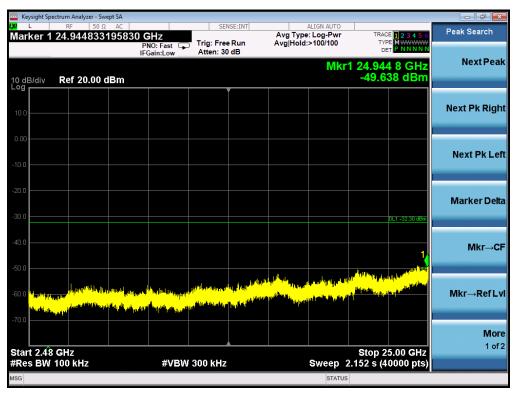


Marker 1	ectrum Analyzer - Sv RF 50 ג	AC AC		SENSE:II	л	ALIGN AUTO		
neintei	725.41038	5260 M	Hz	Trig: Free Rui	Avg	ALIGN AUTO Type: Log-Pwr Iold:>100/100	TRACE 123456	Peak Search
			PNO: Fast 🖵 FGain:Low	Atten: 30 dB	i Avgir		TYPE MWWWWW DET PNNNNN	
						Mkr	1 725.410 MHz -58.760 dBm	NextPea
0 dB/div . ^{og}	Ref 20.00	dBm					-36.760 UBIII	
								Next Pk Righ
10.0								J
0.00								
								Next Pk Le
10.0								
20.0								
~ ^								Marker Delt
30.0							DL1 -32.30 dBm	
40.0								Mkr→C
50.0								
30.0						1		
60.0	de sont a dels destadores de	(1)	والمراجع والمراجع والمراجع والمراجع	and set in the ball	and a strain of a strain of the	and second second second	and the state of the	Mkr→RefL
70.0	a segular a far bir faith his faith has	den her föden han som die son so	the strategic belief and the	indexes providentes à literat	معقلته واللموا ورووس واللواف	and _{a list} of a second second list (second second s	and the providence of the second s	
								Mor
Start 0.03	00 GHz						Stop 1.0000 GHz	1 of
#Res BW	100 kHz		#VBW	300 kHz		Sweep 93.	33 ms (40000 pts)	
ISG						STATUS		
Keysight Sp	ectrum Analyzer - Sv							- 6 -
Marker 1	RF 50 S			SENSE:II	Avg	ALIGN AUTO Type: Log-Pwr		Peak Search
			PNO: Fast 🖵	ing. Free Ku		lold:>100/100	TRACE 1 2 3 4 5 6	Peak Search
			FGain:Low	Atten: 30 dB		lold:>100/100		
0 10/10	Bof 20.00		FGain:Low			lold:>100/100	2.398 705 GHz	
0 dB/div	Ref 20.00		FGain:Low			lold:>100/100		
	Ref 20.00		FGain:Low			lold:>100/100	2.398 705 GHz	Next Pea
	Ref 20.00		FGain:Low			lold:>100/100	2.398 705 GHz	Next Pea
10.0	Ref 20.00		FGain:Low			lold:>100/100	2.398 705 GHz	Next Pea Next Pk Rigi
0.00	Ref 20.00		FGain:Low			lold:>100/100	2.398 705 GHz	Next Pea Next Pk Righ
0.00	Ref 20.00		FGain:Low			lold:>100/100	2.398 705 GHz	Next Pea Next Pk Righ
10.0 0.00 10.0	Ref 20.00		FGain:Low			lold:>100/100	2.398 705 GHz	Next Pea Next Pk Righ Next Pk Le
10.0 0.00 10.0 20.0	Ref 20.00		FGain:Low			lold:>100/100	2.398 705 GHz -55.065 dBm	Next Pea Next Pk Righ Next Pk Le
10.0 0.00 10.0 20.0 30.0	Ref 20.00		FGain:Low			lold:>100/100	2.398 705 GHz	Next Pea Next Pk Righ Next Pk Le
10.0 0.00 10.0 20.0 30.0	Ref 20.00		FGain:Low			lold:>100/100	2.398 705 GHz -55.065 dBm	Next Pea Next Pk Righ Next Pk Le Marker Dell
10.0 0.00 10.0 20.0 30.0 40.0	Ref 20.00		FGain:Low			lold:>100/100	2.398 705 GHz -55.065 dBm	Next Pea Next Pk Rigt Next Pk Le Marker Dell
10.0 0.00 10.0 20.0 30.0 40.0	Ref 20.00		FGain:Low			lold:>100/100	2.398 705 GHz -55.065 dBm	Next Pea Next Pk Righ Next Pk Le Marker Dell Mkr→C
10.0 0.00 10.0 20.0 30.0 40.0 50.0		dBm	FGain:Low				2.398 705 GHz -55.065 dBm	Next Pea Next Pk Righ Next Pk Le Marker Delf Mkr→C
0 dB/div 0 dB/div 0 dD 10		dBm	FGain:Low	Atten: 30 dB			2.398 705 GHz -55.065 dBm	Next Pea Next Pk Righ Next Pk Le Marker Delf Mkr→C
10.0		dBm	FGain:Low	Atten: 30 dB			2.398 705 GHz -55.065 dBm	Next Pea Next Pk Righ Next Pk Le Marker Delt Mkr→C
10.0		dBm	FGain:Low	Atten: 30 dB			2.398 705 GHz -55.065 dBm	Next Pea Next Pk Righ Next Pk Lei Marker Delt Mkr→Ref Lv Mor 1 of

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

EverySight Spectrum Analyzer - Swept SA	SENSE:INT		Peak Search
Marker 1 844.408110203	PNO: Fast Trig: Free Run IFGain:Low Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100 Det P NNNN	V V
10 dB/div Ref 20.00 dBm		Mkr1 844.408 MH; -59.796 dBn	Next Peak
10.0			Next Pk Right
-10.0			Next Pk Left
-20.0		0.1.31.14.49	Marker Delta
-40.0			Mkr→CF
-50.0	e gang pang pang bang pang bang ding ting ting ting ting bang ding bang ding bang ding bang bang bang bang bang		Mkr→RefLv
		<mark>ne en pla sense (popu, con tonto del en p</mark> arte en el de la del parte de la del del del del del del del del en p	More
Start 0.0300 GHz #Res BW 100 kHz	#VBW 300 kHz	Stop 1.0000 GH Sweep 93.33 ms (40000 pts status	



Keysight S	pectrum Analyzer - S		ention Tim			
~	RF 50 1 2.2908672	271682 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWWW	Peak Search
		PNO: Fast IFGain:Lov			DET PNNNN	NeutReal
				Mkr1	2.290 867 GHz -57.606 dBm	NextPeak
10 dB/div	Ref 20.00	dBm			-07.000 dBm	
10.0						Next Pk Right
10.0						
0.00						
-10.0						Next Pk Left
-10.0						
-20.0						Marker Delta
-30.0					DL1-31.14 dBm	Warker Deita
-40.0						Mkr→CF
-50.0						
					♦ ¹	
-60.0	Hatendo a bootistic	neberstelle stander der bestellen med	arenda proteida seletres alexena		and distance of the state () and a fifther day of the state of the st	Mkr→RefLvl
-70.0	and a factor of the second					
						More
	000 GHz				Stop 2.4000 GHz	1 of 2
#Res BV	000 GHz ≬ 100 kHz	#V	/BW 300 kHz		6.0 ms (40000 pts)	1 of 2
		#V	/BW 300 kHz	Sweep 13 Status	6.0 ms (40000 pts)	
#Res BV MSG Keysight S	V 100 KHz Spectrum Analyzer - S RF 50	wept SA Ω AC	/BW 300 kHz	STATUS	6.0 ms (40000 pts)	
#Res BV MSG Keysight S	V 100 KHz Spectrum Analyzer - S RF 50	wept SA Ω AC 000000 GHz PNO: Fast	SENSE:INT	STATUS	6.0 ms (40000 pts)	
#Res BV MSG Keysight S	V 100 KHz Spectrum Analyzer - S RF 50	wept SA Ω AC O00000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	
#Res BV MSG Keysight S W L Marker 10. dB/div	ipectrum Analyzer - S	wept SA Ω AC DOUDOO GHZ PNO: Fast IFGain:Lov	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search
#Res BV MSG Keysight S XI L Marker 10. dB/div	V 100 kHz ipectrum Analyzer - S RF 50 1 2.4835000	wept SA Ω AC DOUDOO GHZ PNO: Fast IFGain:Lov	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak
#Res BV MSG Keysight S XI L Marker 10. dB/div	V 100 kHz ipectrum Analyzer - S RF 50 1 2.4835000	wept SA Ω AC DOUDOO GHZ PNO: Fast IFGain:Lov	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak
#Res BW MSG Keysight S X L Marker 10 dB/div Log 10.0	V 100 kHz ipectrum Analyzer - S RF 50 1 2.4835000	wept SA Ω AC DOUDOO GHZ PNO: Fast IFGain:Lov	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak
#Res BW MSG Keysight S W L Marker	V 100 kHz ipectrum Analyzer - S RF 50 1 2.4835000	wept SA Ω AC DOUDOO GHZ PNO: Fast IFGain:Lov	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak Next Pk Right
#Res BW MSG Keysight S Ky L Marker	V 100 kHz ipectrum Analyzer - S RF 50 1 2.4835000	wept SA Ω AC DOUDOO GHZ PNO: Fast IFGain:Lov	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search
#Res BV MSG Keysight S Marker 10 dB/div Log 10.0	V 100 kHz ipectrum Analyzer - S RF 50 1 2.4835000	wept SA Ω AC DOUDOO GHZ PNO: Fast IFGain:Lov	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak Next Pk Right
#Res BV MSG Keysight S XX L Marker	V 100 kHz ipectrum Analyzer - S RF 50 1 2.4835000	wept SA Ω AC DOUDOO GHZ PNO: Fast IFGain:Lov	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak Next Pk Right
#Res BV MSG Keysight S Marker 10 dB/div Log 10.0	V 100 kHz ipectrum Analyzer - S RF 50 1 2.4835000	wept SA Ω AC DOUDOO GHZ PNO: Fast IFGain:Lov	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak Next Pk Right
#Res BV MSG Keysight S W L Marker 10.0 -10.0 -20.0 -30.0	V 100 kHz ipectrum Analyzer - S RF 50 1 2.4835000	wept SA Ω AC DOUDOO GHZ PNO: Fast IFGain:Lov	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left
#Res BV MSG Keysight S (X) L Marker 10 dB/div Log 10 0 -10 0 -20 0	V 100 kHz ipectrum Analyzer - S RF 50 1 2.4835000	wept SA Ω AC DOUDOO GHZ PNO: Fast IFGain:Lov	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left
#Res BV MSG Keysight S W L Marker 10.0 -10.0 -20.0 -30.0	V 100 kHz ipectrum Analyzer - S RF 50 1 2.4835000	wept SA Ω AC DOUDOO GHZ PNO: Fast IFGain:Lov	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left
#Res BV MSG Keysight S X L Marker 10 0 dB/div 0.00 -10.0 -20.0 -20.0 -30.0 -40.0 1 -40.0 -1 -20.0	V 100 kHz ipectrum Analyzer - S RF 50 1 2.4835000	wept SA Ω AC DOUDOO GHZ PNO: Fast IFGain:Lov	SENSE:INT	Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
#Res BV MSG Keysight S Marker 10 dB/div 10 0 -10 0 -20 0 -30 0 -40 0 -40 0 -50 0 -50 0 -50 0	V 100 kHz	wept SA Ω AC DOUDOO GHZ PNO: Fast IFGain:Lov	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
#Res BV MSG Keysight S Marker 10 dB/div 10 0 -10 0 -20 0 -30 0 -40 0 -40 0 -50 0 -50 0 -50 0	V 100 kHz ipectrum Analyzer - S RF 50 1 2.4835000	wept SA 2 AC DOOOOO GH2 PNO: Fast IFGain:Low dBm	SENSE:INT Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
#Res BV MSG MSG Marker 10 dB/div 10 0 -10 0 -20 0 -20 0 -30 0 -40 0 -30 0 -40 0 -30 0 -40 0 -30 0 -40 0 -30 0 -30 0 -30 0 -40 0 -40 0 -50 0	V 100 kHz	wept SA 2 AC DOOOOO GH2 PNO: Fast IFGain:Low dBm	SENSE:INT Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvi
#Res BV MSG Marker 10 dB/div 0 dB/div 10 0 -10 0 -20 0 -20 0 -30 0 -30 0 -40 0 -40 0 -30 0 -3	V 100 kHz	wept SA 22 AC DOOOO GH22 PNO: Fast IFGain:Low dBm	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF



LXI L	RF 50 g 1 985.37688	Ω AC B4422 MH P	NO: Fast 🖵	Trig: Free		Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	TRAC	CE 123456 PE MWWWWW ET P N N N N N	Peak Search
			Gain:Low	Atten: 30	αB		Mki	1 985.3	77 MHz 79 dBm	Next Peak
10 dB/div Log	Ref 20.00	dBm						-90.0		
10.0										Next Pk Right
0.00										
-10.0										Next Pk Left
-20.0										Marker Delta
-30.0									DL1 -32.57 dBm	
-40.0										Mkr→CF
-50.0										
-60.0	Loom L. Josef & Weber State	ير ور معاملة و الماد بالماد	u	con es la fisia d	a shi a a a si sa sa ta		and the second second second	an an a' san an an an		Mkr→RefLvl
-70.0		the factories down the	n haya waxa tina kanal salari	in a strong and a signal of	andre and a second		Consecutive and	ndundan belanta	fyndiadaistau abau ddify	
										More 1 of 2
	300 GHz V 100 kHz		#VBW	300 kHz		s	weep 93	Stop 1.0 .33 ms (4	0000 GHz 0000 pts)	1012
MSG							STATUS			
🔤 Keysight S										
XI L	Spectrum Analyzer - So RF 50 9	wept SA Ω AC		SEN	ISE:INT		ALIGN AUTO			
		Ω AC 968499 G	NO: Fast 🗔	Trig: Free	Run	Avg Type	ALIGN AUTO e: Log-Pwr :>100/100	TRAC TYI DI	DE 123456 PE M WWWW	Peak Search
Marker	RF 50 9 1 2.3987399	Ω AC 068499 G P IF			Run	Avg Type	e: Log-Pwr :>100/100	2.398 7	E 123456 MWWWW PNNNN 40 GHz 18 dBm	Peak Search
Marker	RF 50 9 1 2.3987399	Ω AC 068499 G P IF	NO: Fast 🗔	Trig: Free	Run	Avg Type	e: Log-Pwr :>100/100	2.398 7	40 GHz	Peak Search Next Peak
Marker	RF 50 9 1 2.3987399	Ω AC 068499 G P IF	NO: Fast 🗔	Trig: Free	Run	Avg Type	e: Log-Pwr :>100/100	2.398 7	40 GHz	Peak Search Next Peak
Marker	RF 50 9 1 2.3987399	Ω AC 068499 G P IF	NO: Fast 🗔	Trig: Free	Run	Avg Type	e: Log-Pwr :>100/100	2.398 7	40 GHz	Peak Search Next Peak Next Pk Right
Marker	RF 50 9 1 2.3987399	Ω AC 068499 G P IF	NO: Fast 🗔	Trig: Free	Run	Avg Type	e: Log-Pwr :>100/100	2.398 7	40 GHz	Peak Search Next Peak Next Pk Right
Marker	RF 50 9 1 2.3987399	Ω AC 068499 G P IF	NO: Fast 🗔	Trig: Free	Run	Avg Type	e: Log-Pwr :>100/100	2.398 7	40 GHz	Peak Search Next Peak Next Pk Right Next Pk Left
Marker 10 dB/div - 0 9 10.0 - 0.00 - 10.0 - 20.0	RF 50 9 1 2.3987399	Ω AC 068499 G P IF	NO: Fast 🗔	Trig: Free	Run	Avg Type	e: Log-Pwr :>100/100	2.398 7	40 GHz 18 dBm	Peak Search Next Peak Next Pk Right Next Pk Left
Marker 0 dB/div 0 g 10.0 0.00 20.0 30.0 0 0 0 0 0 0 0 0 0 0 0 0 0	RF 50 9 1 2.3987399	Ω AC 068499 G P IF	NO: Fast 🗔	Trig: Free	Run	Avg Type	e: Log-Pwr :>100/100	2.398 7	40 GHz	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
10 dB/div 0 0 0 0 0 0 0.00 10.0 10.0 10.0 10.0 40.0	RF 50 9 1 2.3987399	Ω AC 068499 G P IF	NO: Fast 🗔	Trig: Free	Run	Avg Type	e: Log-Pwr :>100/100	2.398 7	40 GHz 18 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
Marker 10 dB/div	RF 50 9 1 2.3987399	Ω AC 068499 G P IF	NO: Fast 🗔	Trig: Free	Run	Avg Type	e: Log-Pwr :>100/100	2.398 7	40 GHz 18 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
Marker 10 dB/div cog 10.0 .000 .10.0 .20.0 .30.0 .40.0	RF 50 9 1 2.3987399	Ω AC 068499 G P IF	NO: Fast 🗔	Trig: Free	Run	Avg Type	e: Log-Pwr :>100/100	2.398 7	40 GHz 18 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
Marker 10 dB/div - 0 0 10.0 -10.0 -20.0	RF 50 9 1 2.3987399	Ω AC 068499 G P IF	NO: Fast 🗔	Trig: Free	Run	Avg Type	e: Log-Pwr :>100/100	2.398 7	40 GHz 18 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
I0 dB/div 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 20.0	Ref 20.00	Ω AC 068499 G P IF	NO: Fast 🗔	Trig: Free	Run	Avg Type	e: Log-Pwr :>100/100	2.398 7 -36.2	2 P NINNIN 40 GHz 18 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
Marker 10.0	RF 50 9 1 2.3987399	Ω AC 068499 G P IF	NO: Fest Gain:Low	Trig: Free	Run		e: Log-Pwr >>10/100 Mkr1	2.398 7 -36.2	40 GHz 18 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→Ref Lvi More

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

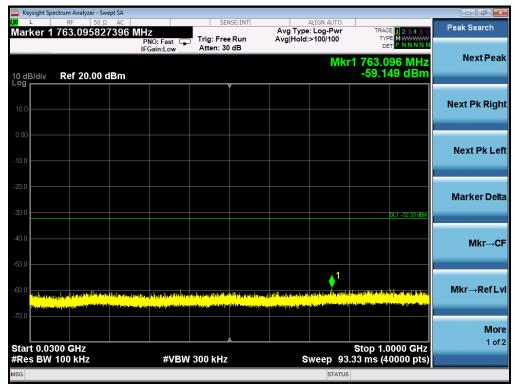
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	m Analyzer - Swept SA						1		
	RF 50 Ω AC .2822686192	216 GHz PNO: Fast G				ALIGN AUTO :: Log-Pwr :>100/100		123456 M ^{********} PNNNNN	Peak Search
0 dB/div R	ef 20.00 dBm	in Gaimeon				Mkr	1 24.282	3 GHz 2 dBm	Next Pea
10.0									Next Pk Righ
0.00									Next Pk Le
30.0								DL1 -32.57 dBm	Marker Dell
40.0								1	Mkr→C
60.0 National States	a shekiri na di saya		la fotblockata f	le pla a la filla di Na manda	a liga a <mark>dha fa a</mark> n an	adaratista and ang ing ing ing ing ing ing ing ing ing i	a ^{dan} a sa paja sa		Mkr→RefLv
70.0 Start 2.48 GI Res BW 10		#\/B)A	300 kHz			Sween	Stop 25 2.152 s (40	0.00 GHz	Mor 1 of
SG SG	V NHZ	#VDV	- 500 KHZ			STATUS		looo proj	

TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE

OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL





	pectrum Analyzer - S								
<mark>⊯</mark> Marker	RF 50	Ω AC 970249 GHz		SENSE:INT	Avg Type: Log			23456	Peak Search
				ee Run 30 dB	Avg Hold:>100	/100		N N N N N	
					Ν	/kr1 2.3	98 810	GHz	NextPeak
10 dB/div Log	Ref 20.00	dBm				-	53.739	dBm	
				Ĭ					
10.0									Next Pk Right
0.00									
0.00									Next Pk Leff
-10.0									
20.0									
-20.0									Marker Delta
-30.0							DL1 -	32.33 dBm	
-40.0									Mkr→CF
-50.0								1	
-60.0	ossember had to ship	dahan Madaa ay kata	Cile di Banna di Dan Maria di Banna	and a three she light			and the second		Mkr→RefLv
-70.0	n di na kana kana kana kana kana kana kana	يان و الله و الله و الله و معالمه الله و معالمه الله و الله و و الله و الله	diga na farat) ya Aristonia (A. Indoletia) Maria (A. Indoletia)						
									More
Stort 4-9						C+/	op 2.400		1 of 2
	000 GHz								
#Res BW	000 GHz V 100 kHz		#VBW 300 kH	Z		p 136.0			
			#VBW 300 kH	Z					
#Res BW	V 100 KHZ	iwept SA				p 136.0			- 0 -
#Res BM MSG Keysight S	V 100 KHz Spectrum Analyzer - S	wept SA Ω AC 2307808 GHz	2	ENSE:INT	ALIGN Avg Type: Log	AUTO -Pwr	TRACE	00 pts)	Peak Search
#Res BM MSG Keysight S	V 100 KHz Spectrum Analyzer - S	wept SA Ω AC 2307808 GHz	Fast Trig: Fr	ENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	AUTO -Pwr /100	TRACE	00 pts)	Peak Search
#Res BM MSG Keysight S Keysight S Marker	V 100 kHz ipectrum Analyzer - S RF 50 1 24.75231;	wept SA Ω AC 2307808 GHz PNO: I IFGain:	Fast Trig: Fr	ENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	AUTO MIKT1 24	TRACE 1 TYPE M DET P 4.752 3	00 pts)	Peak Search
#Res BW MSG Keysight S A Marker 10. dB/div	V 100 KHz Spectrum Analyzer - S	wept SA Ω AC 2307808 GHz PNO: I IFGain:	Fast Trig: Fr	ENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	AUTO MIKT1 24	TRACE	2 3 4 5 6 NNNNN GHz	Peak Search
#Res BW MSG Keysight S Keysight S Keysight S Marker Marker	V 100 kHz ipectrum Analyzer - S RF 50 1 24.75231;	wept SA Ω AC 2307808 GHz PNO: I IFGain:	Fast Trig: Fr	ENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	AUTO MIKT1 24	TRACE 1 TYPE M DET P 4.752 3	2 3 4 5 6 NNNNN GHz	Peak Search Next Peak
#Res BW MSG Keysight S A Marker 10. dB/div	V 100 kHz ipectrum Analyzer - S RF 50 1 24.75231;	wept SA Ω AC 2307808 GHz PNO: I IFGain:	Fast Trig: Fr	ENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	AUTO MIKT1 24	TRACE 1 TYPE M DET P 4.752 3	2 3 4 5 6 NNNNN GHz	Peak Search Next Peak
#Res BW MSG Keysight S X Marker 10 dB/div	V 100 kHz ipectrum Analyzer - S RF 50 1 24.75231;	wept SA Ω AC 2307808 GHz PNO: I IFGain:	Fast Trig: Fr	ENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	AUTO MIKT1 24	TRACE 1 TYPE M DET P 4.752 3	2 3 4 5 6 NNNNN GHz	Peak Search Next Peak
#Res BW Masg Keysight S XX L Marker 10.0 0.00	V 100 kHz ipectrum Analyzer - S RF 50 1 24.75231;	wept SA Ω AC 2307808 GHz PNO: I IFGain:	Fast Trig: Fr	ENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	AUTO MIKT1 24	TRACE 1 TYPE M DET P 4.752 3	2 3 4 5 6 NNNNN GHz	Peak Search Next Peak Next Pk Right
#Res BW Msg Keysight S W L Marker 10 dB/div Log	V 100 kHz ipectrum Analyzer - S RF 50 1 24.75231;	wept SA Ω AC 2307808 GHz PNO: I IFGain:	Fast Trig: Fr	ENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	AUTO MIKT1 24	TRACE 1 TYPE M DET P 4.752 3	2 3 4 5 6 NNNNN GHz	Peak Search Next Peak Next Pk Right
#Res BW MSG Keysight S XX L Marker 10 dB/div Log 10.0	V 100 kHz ipectrum Analyzer - S RF 50 1 24.75231;	wept SA Ω AC 2307808 GHz PNO: I IFGain:	Fast Trig: Fr	ENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	AUTO MIKT1 24	TRACE 1 TYPE M DET P 4.752 3	2 3 4 5 6 NNNNN GHz	Peak Search Next Peak Next Pk Right
#Res BW MSG Keysight S X Marker 10 dB/div 0 00 -10.0 -20.0	V 100 kHz ipectrum Analyzer - S RF 50 1 24.75231;	wept SA Ω AC 2307808 GHz PNO: I IFGain:	Fast Trig: Fr	ENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	AUTO MIKT1 24	TRACE 1 TYPE M DET P 4.752 3	2 3 4 5 6 NNNNN GHz	Peak Search Next Peak Next Pk Right Next Pk Left
#Res BW MSG Keysight S W L Marker 10.0 -10.0	V 100 kHz ipectrum Analyzer - S RF 50 1 24.75231;	wept SA Ω AC 2307808 GHz PNO: I IFGain:	Fast Trig: Fr	ENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	AUTO MIKT1 24	TRACE 1 TYPE M 4.752 3 49.067	2 3 4 5 6 NNNNN GHz	Peak Search Next Peak Next Pk Right Next Pk Left
#Res BW MSG Keysight S X Marker 10 dB/div 0 00 -10.0 -20.0	V 100 kHz ipectrum Analyzer - S RF 50 1 24.75231;	wept SA Ω AC 2307808 GHz PNO: I IFGain:	Fast Trig: Fr	ENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	AUTO MIKT1 24	TRACE 1 TYPE M 4.752 3 49.067	2 3 4 5 6 NNNNN GHz dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
#Res BW Msg Keysight S X L Marker 10 dB/div 10 0 -10 0 -20 0 -30 0 -30 0 -	V 100 kHz ipectrum Analyzer - S RF 50 1 24.75231;	wept SA Ω AC 2307808 GHz PNO: I IFGain:	Fast Trig: Fr	ENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	AUTO MIKT1 24	TRACE 1 TYPE M 4.752 3 49.067	2 3 4 5 6 NNNNN GHz dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
#Res BW Msg Keysight S X L Marker 10 dB/div 10 0 -10 0 -20 0 -30 0 -30 0 -	V 100 kHz ipectrum Analyzer - S RF 50 1 24.75231;	wept SA Ω AC 2307808 GHz PNO: I IFGain:	Fast Trig: Fr	ENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	p 136.0 status AUTO -PWr /100 Mkr1 24	TRACE 1 TYPE M 4.752 3 49.067	2 3 4 5 6 NNNNN GHz dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
#Res BW Msg	V 100 kHz ipectrum Analyzer - S RF 50 1 24.75231;	wept SA Ω AC 2307803 GHz PNO: I IFGain: dBm	Fast Trig: Fr Low Atten:	SENSE:INT	Aug Type: Log Avg Hold:>100	P 136.0 I	TRACE 1 TYPE M DET D 4.752 3 49.067	2 3 4 5 6 NN N N N GHZ dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
#Res BW Msg	V 100 kHz	wept SA Ω AC 2307808 GHz PNO: IFGain: dBm	Fast Trig: Fr Low Atten:	SENSE:INT	ALIGN Avg Type: Log Avg Hold:>100	P 136.0 I	TRACE 1 TYPE M 4.752 3 49.067	2 3 4 5 6 NN N N N GHZ dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
#Res BW Msg	V 100 kHz	wept SA Ω AC 2307808 GHz PNO: IFGain: dBm	Trig: Fr Fast Trig: Fr Atten:	SENSE:INT	Aug Type: Log Avg Hold:>100	P 136.0 I	TRACE 1 TYPE M DET D 4.752 3 49.067	2 3 4 5 6 NN N N N GHZ dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
#Res BW Mss	V 100 kHz	wept SA Ω AC 2307808 GHz PNO: IFGain: dBm	Trig: Fr Fast Trig: Fr Atten:	SENSE:INT	Aug Type: Log Avg Hold:>100	P 136.0 I	TRACE 1 TYPE M DET D 4.752 3 49.067	2 3 4 5 6 NN N N N GHZ dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvi More
#Res BW Masc	V 100 kHz	wept SA Ω AC 23077808 GHz PNO: 1 IFGain: dBm IFGain: ABM IFGain: ABM IFGain: ABM IFGAIN	Trig: Fr Fast Trig: Fr Atten:	SENSE :INT	ALIGN Avg Type: Log Avg Hold:>100	P 136.0 I	TRACE [] TYPE M DET D 4.752 3 49.067	2 3 4 5 6 NN N N N GHZ dBm 32 33 68m 32 33 68m 0 GHZ	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF

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wept SA Ω AC	SENSE:INT	ALIGN AUTO		
	Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN	Peak Search
IFGain:Low	Atten: 30 dB	Mkr1	853.939 MHz	Next Pea
dBm	Ţ		-58.714 dBm	
				Next Pk Rigi
				Next Pk Le
				NEXTERE
				Marker Del
			DL1 -33.12 dBm	
				Mkr→C
			1	
National and the control of the orthogon	Autoritaria da bakarana da da bakara ara	un sente a la ser restativa en la retta direte la la des	?	Mkr→RefL
	aliana ay na biyan di kina di kina di kina di kina na biyan na		<mark>na sa sing manang kanda di kanalah kanang s</mark>	
				Мо
#\/P	W 200 kHz	Swoon 02.2	Stop 1.0000 GHz	1 of
#VD		Sweep 95.	5 ms (40000 pts)	
wept SA				
Ω ΑC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Peak Search
PNO: Fast C IFGain:Low	Trig: Free Run Atten: 30 dB		DET P NNNN	
dBm				Novt Dos
		Mkr1 2	2.355 549 GHz -55.976 dBm	NextPea
	Ť	Mkr1 2	2.355 549 GHz -55.976 dBm	
		Mkr1 2	2.355 549 GHz -55.976 dBm	
		Mkr1 2	2.355 549 GHz -55.976 dBm	
		Mkr1 2	2.355 549 GHz -55.976 dBm	Next Pea Next Pk Rig Next Pk Le
		Mkr1 2	2.355 549 GHz -55.976 dBm	Next Pk Rig
		Mkr1 2	2.355 549 GHz -55.976 dBm	Next Pk Rig
		Mkr1 2	2.355 549 GHz -55.976 dBm	Next Pk Rig Next Pk Le
		Mkr1 2	-55.976 dBm	Next Pk Rigi Next Pk Le Marker Del
		Mkr1 2	-55.976 dBm	Next Pk Rig Next Pk Le
			-55.976 dBm	Next Pk Rigi Next Pk Le Marker Del Mkr→C
			-55.976 dBm	Next Pk Rigi Next Pk Le Marker Del Mkr→C
			-55.976 dBm	Next Pk Rig Next Pk Le Marker Del Mkr→C
			-55.976 dBm	Next Pk Rigi Next Pk Le Marker Del Mkr→C
	Vert SA	8465 MHz Trig: Free Run PN0: Fast Trig: Free Run Atten: 30 dB Atten: 30 dB dBm Image: Second state of the second	8465 MHz PN0: Fast Trig: Free Run Avg Type: Log-Pwr PN0: Fast Trig: Free Run Avg Type: Log-Pwr Atten: 30 dB Mkr1 dBm Mkr1	8465 MHz Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold:>100/100 TRACE 12.34 5 G PNO: Fast Free Run Atten: 30 dB Mikr1 853.939 MHz Star 14 dBm dBm -58.714 dBm -58.714 dBm dBm -58.721 dBm -58.721 dBm

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

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Keysight Sp	ectrum Analyzer - Swept SA						
<mark>₩</mark> L Marker 1	RF 50 Ω AC 2.483500000000	GHz	SENSE:INT	Avg Type	ALIGN AUTO	TRACE 123456	Peak Search
		PNO: Fast Trig: Find IFGain:Low Atten:		Avg Hold:			NextPeak
10 dB/div Log	Ref 20.00 dBm				Mkr	1 2.483 5 GHz -45.143 dBm	NextPeak
10.0							Next Pk Right
-10.0							Next Pk Left
-20.0							Marker Delta
-40.0 •1						DL1 -33.12 dBm	Mkr→CF
-50.0		and a state of the second		n a s ^{al} latil Teories and search	in the states are stated		Mkr→RefLvl
-70.0 Start 2.48	GHz					Stop 25.00 GHz	More 1 of 2
#Res BW		#VBW 300 kH	z		Sweep 2.	152 s (40000 pts)	
MSG					STATUS		



6. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

6.1 MEASUREMENT PROCEDURE

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

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

6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 4.2.

6.3 LIMITS AND MEASUREMENT RESULT

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

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-3.704	8	Pass
Middle Channel	-3.643	8	Pass
High Channel	-4.072	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	-8.606	8	Pass
Middle Channel	-8.565	8	Pass
High Channel	-9.212	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	-8.096	8	Pass
Middle hannel	-7.960	8	Pass
High Channel	-8.703	8	Pass





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

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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL





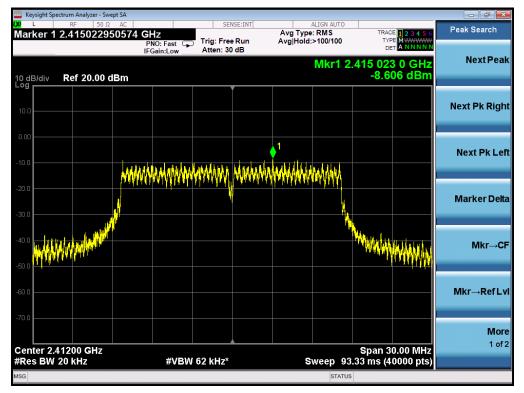


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

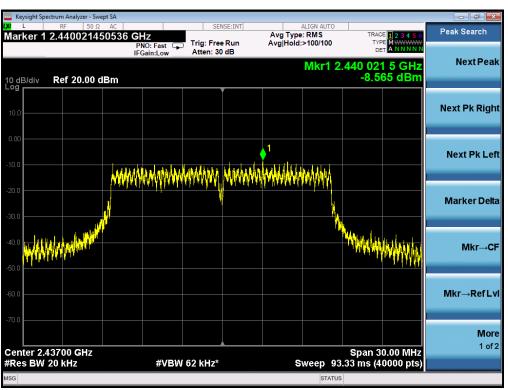
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802.11g TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL







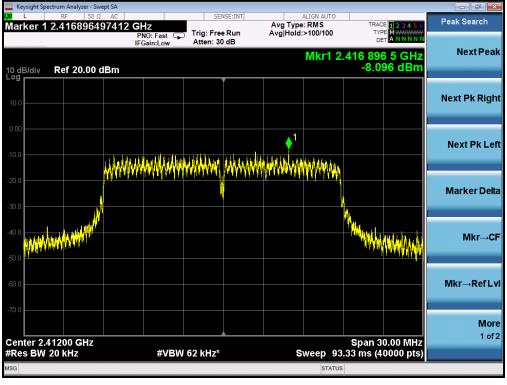
TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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			JR HIGH CHANN	
Keysight Spectrum Analyzer - Swept SA μ RF 50 Ω AC Marker 1 2.465019200480	GHz PNO: Fast Trig: Free		S TRACE 123456	Peak Search
10 dB/div Ref 20.00 dBm	IFGain:Low Atten: 30		r1 2.465 019 2 GHz -9.212 dBm	Next Peak
10.0				Next Pk Right
-10.0	and the all which a climber of the	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Next Pk Left
-20.0	Manulanda adala	ryinarayin ya ang kang kang kang kang kang kang kang	ИМ	Marker Delta
-40.0			The second se	Mkr→CF
-60.0				Mkr→RefLvl
-70.0 Center 2.46200 GHz			Span 30.00 MHz	More 1 of 2
#Res BW 20 kHz	#VBW 62 kHz*		p 93.33 ms (40000 pts)	

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

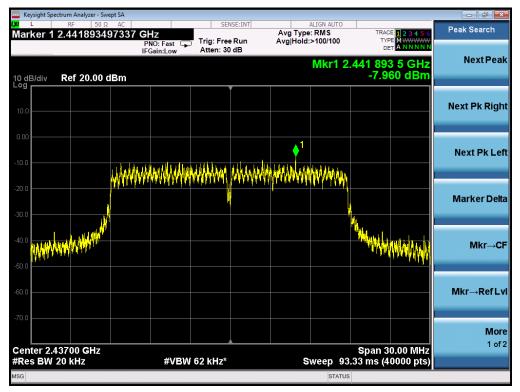




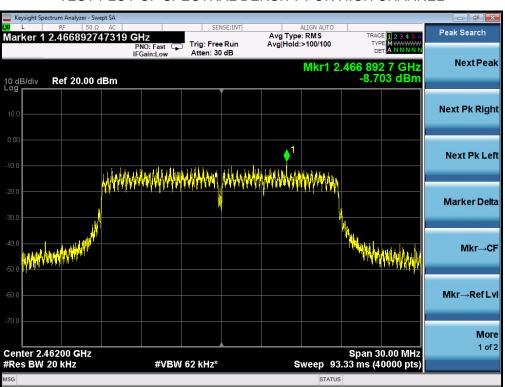
802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL







TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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7. RADIATED EMISSION

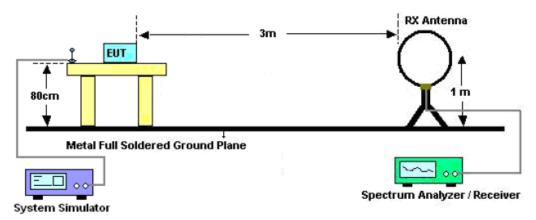
7.1. MEASUREMENT PROCEDURE

- 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.

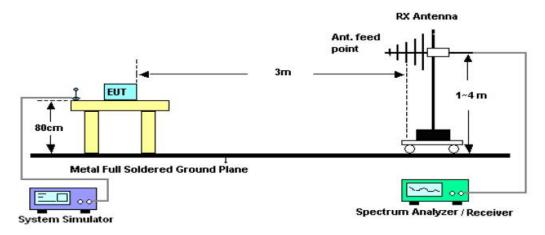


7.2. TEST SETUP

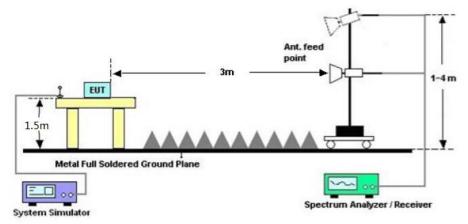
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz





7.3. 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.

7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

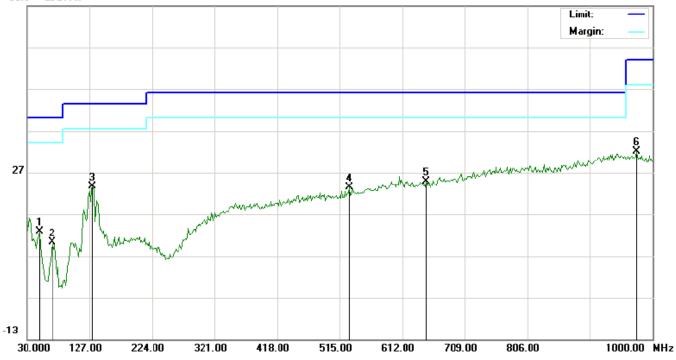
No emission found between lowest internal used/generated frequencies to 30MHz.



RADIATED EMISSION BELOW 1GHZ

EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
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 dBuV/m

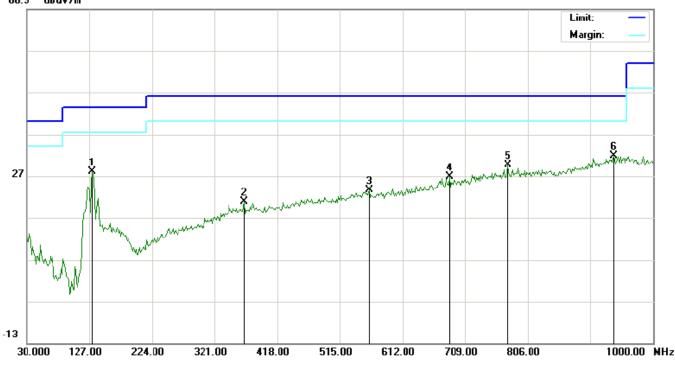


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		49.4000	1.51	11.28	12.79	40.00	-27.21	peak			
2		68.8000	1.11	9.09	10.20	40.00	-29.80	peak			
3	*	131.8500	12.19	11.39	23.58	43.50	-19.92	peak			
4		529.5500	1.39	21.93	23.32	46.00	-22.68	peak			
5		649.1833	1.04	23.85	24.89	46.00	-21.11	peak			
6		975.7500	2.18	29.75	31.93	54.00	-22.07	peak			



EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical





No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		131.8500	16.24	11.80	28.04	43.50	-15.46	peak			
2		366.2667	1.95	18.85	20.80	46.00	-25.20	peak			
3		560.2667	1.14	22.53	23.67	46.00	-22.33	peak			
4		684.7500	1.96	24.78	26.74	46.00	-19.26	peak			
5		775.2833	2.65	26.98	29.63	46.00	-16.37	peak			
6	*	940.1833	2.05	29.73	31.78	46.00	-14.22	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.



EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value rype		
4824.051	45.12	3.72	48.84	74	-25.16	peak		
4824.085	41.81	3.72	45.53	54	-8.47	AVG		
7236.091	44.32	8.15	52.47	74	-21.53	peak		
7236.026	40.26	8.15	48.41	54	-5.59	AVG		
Remark:								
-actor = Antenna Factor + Cable Loss – Pre-amplifier.								

EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
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 rype	
4824.049	45.06	3.72	48.78	74	-25.22	peak	
4824.052	40.59	3.72	44.31	54	-9.69	AVG	
7236.031	44.85	8.15	53	74	-21	peak	
7236.022	36.94	8.15	45.09	54	-8.91	AVG	
Remark:							
	enna Factor + Ca	able Loss – F	Pre-amplifier.				



EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
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
4874.055	42.94	3.75	46.69	74	-27.31	peak
4874.041	40.65	3.75	44.4	54	-9.6	AVG
7311.063	41.96	8.16	50.12	74	-23.88	peak
7311.031	38.91	8.16	47.07	54	-6.93	AVG
Remark:						
Factor = Ante	enna Factor + Ca	able Loss – F	Pre-amplifier.			

EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
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	
4874.103	43.68	3.75	47.43	74	-26.57	peak	
4874.037	40.29	3.75	44.04	54	-9.96	AVG	
7311.065	41.82	8.16	49.98	74	-24.02	peak	
7311.094	39.07	8.16	47.23	54	-6.77	AVG	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							



EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
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 rype
4924.032	45.15	3.81	48.96	74	-25.04	peak
4924.059	42.32	3.81	46.13	54	-7.87	AVG
7386.059	43.59	8.19	51.78	74	-22.22	peak
7386.031	40.76	8.19	48.95	54	-5.05	AVG
Remark:			1			
Factor = Ante	enna Factor + Ca	able Loss – F	Pre-amplifier.			

EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
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)	value Type
4924.038	44.69	3.81	48.5	74	-25.5	peak
4924.030	40.59	3.81	44.4	54	-9.6	AVG
7386.039	42.91	8.19	51.1	74	-22.9	peak
7386.090	40.56	8.19	48.75	54	-5.25	AVG
Remark:						
temark.						
	enna Factor + Ca	able 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.



8. BAND EDGE EMISSION

8.1. 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

8.2. TEST SET-UP

same as 7.2

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.



8.3. TEST RESULT

EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
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

larker 1	⊮ 2.4130	50 Ω AC 010000000 GH Pt IFC	lZ IO:Fast G Gain:Low	Trig: Free Run Atten: 10 dB	Avg	ALIGN AUTO Type: RMS Hold:>100/100	TRACE 1 2 3 TYPE A WW DET A NN	WWWW	Peak Search
0 dB/div	Ref 10	06.00 dBµV				Mkr1	2.413 010 G 96.484 dE		NextPea
96.0 86.0 76.0									Next Pk Rig
66.0 56.0 46.0									Next Pk L
36.0 26.0		~~~~	2 ²						Marker De
tart 2.37 Res BW	1.0 MH:		#VBV	V 3.0 MHz*	FUNCTION	Sweep 1	Stop 2.42500 (.000 ms (1001	pts)	Mkr→
1 N 1 2 N 1 3 4 5		2.413 010 2.390 000) GHz) GHz	96.484 dBµV 36.451 dBµV				=	Mkr→Refl
6 7 8 9									Мс 1 с
10									



EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical



AV





EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal









EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical



AV





EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal



AV





EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical



AV

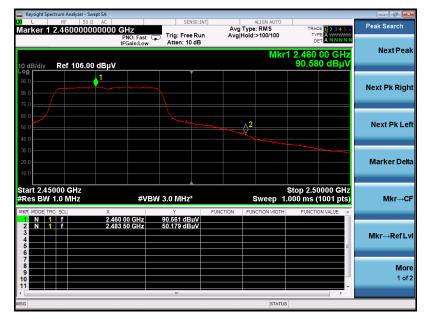




EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal









EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Vertical









EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
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



AV





EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
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



AV





EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
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



AV





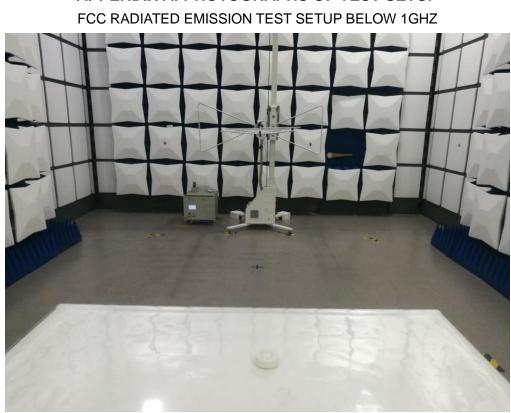
EUT	WiFi smoke sensor	Model Name	NAS-SD01W0
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Vertical











APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ







APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT

TOP VIEW OF EUT



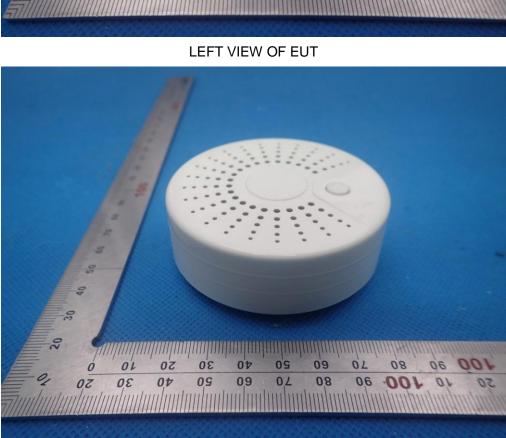


BOTTOM VIEW OF EUT



FRONT VIEW OF EUT

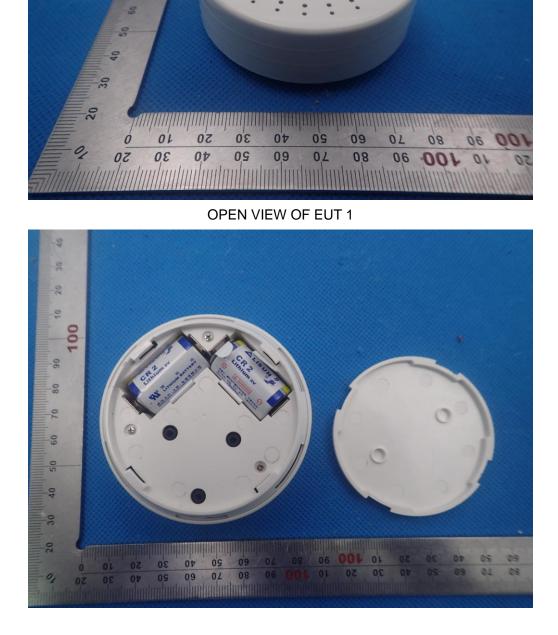






BACK VIEW OF EUT



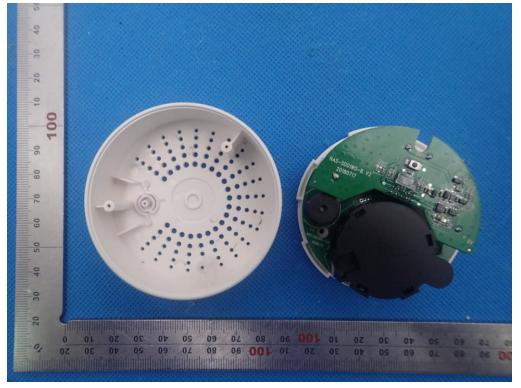


RIGHT VIEW OF EUT

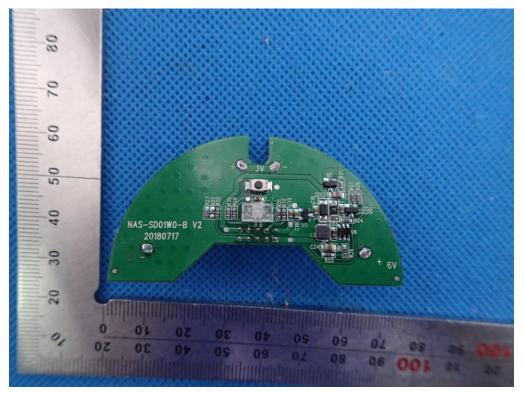




OPEN VIEW OF EUT 2

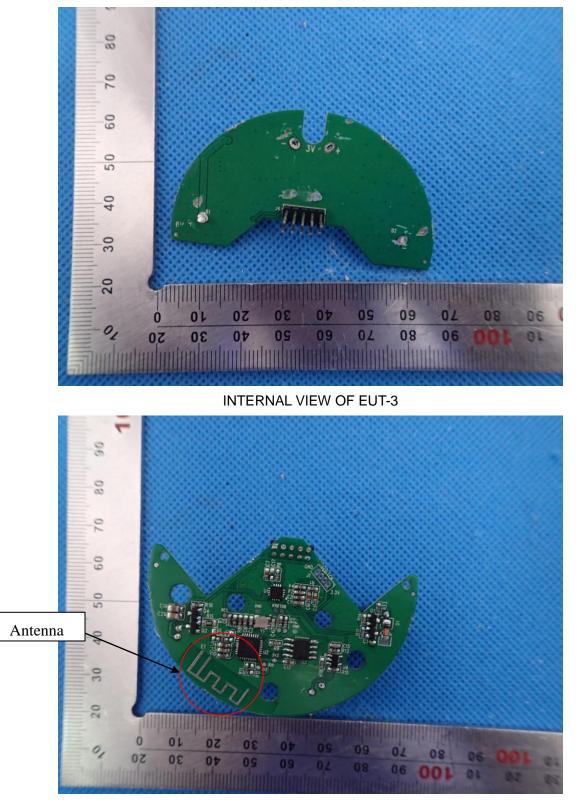


INTERNAL VIEW OF EUT-1



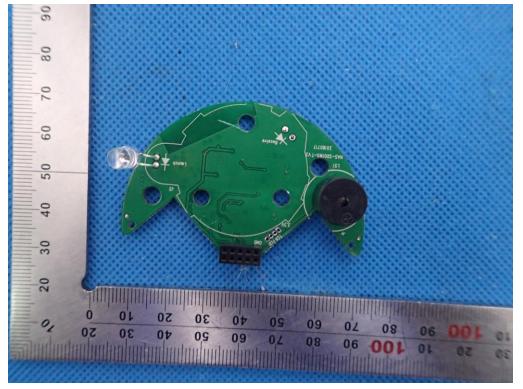


INTERNAL VIEW OF EUT-2





INTERNAL VIEW OF EUT-4



----END OF REPORT----