

FCC Test Report

Report No.: AGC02031180101FE05

FCC ID : 2AG94-C-8068

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION : WIFI Module

BRAND NAME : C-CHIP

MODEL NAME : C-8068

CLIENT: Shenzhenshi Xinzhongxin Technology Co., Ltd

DATE OF ISSUE : May 04, 2018

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	A C ALL	May 04, 2018	Valid	Initial Release

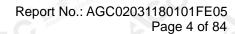
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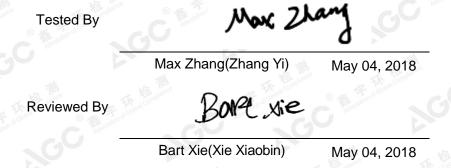
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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhenshi Xinzhongxin Technology Co., Ltd			
Address	Block A3, Dong Huan Industrial Zone, Nanpu Road, Shajin Street, Baoan District, Shenzhen, China			
Manufacturer	Shenzhenshi Xinzhongxin Technology Co., Ltd			
Address	Block A3, Dong Huan Industrial Zone, Nanpu Road, Shajin Street, Baoan District, Shenzhen, China			
Product Designation	WIFI Module			
Brand Name	C-CHIP			
Test Model	C-8068			
Date of test	Feb. 05, 2018 to May 04, 2018			
Deviation	None			
Condition of Test Sample	Normal			
Test Result	Pass Table Committee Commi			
Report Template	AGCRT-US-BGN/RF			

We hereby certify that:

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



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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "WIFI Module". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

of Lot is described as following
2.412 GHz~2.462GHz
IEEE 802.11b:11.59dBm; IEEE 802.11g:10.61dBm; IEEE 802.11n(20):10.66dBm; IEEE 802.11n(40):9.59dBm
DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
11
V1.1
V1.1
PCB Antenna
0dBi
DC 3.3V

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
SE STORY COMPANY SE STORY OF S	CC 100	2412 MHZ
SGC MAN	2	2417 MHZ
	3 1 1 1 1 1 1 1 1	2422 MHZ
a Colona Companio	60 ⁴	2427 MHZ
CG Manager	5	2432 MHZ
2400~2472MHZ	1 6	2437 MHZ
The Third Company	7 Same Control of Cont	2442 MHZ
of Colonia Compilation of Colonia Colo	8	2447 MHZ
Sec 10	9	2452 MHZ
- iiil	10	2457 MHZ
The Manual Complaints of the State of the St	11	2462 MHZ

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

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2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	R NBPSC	NCBPS				BPS	rate(I	ata Mbps) nsGl
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz	
0	1	BPSK	1/2	15	52	108	26	54	6.5	13.5	
1 3	1 1 mos	QPSK	1/2	2	104	216	52	108	13.0	27.0	
2	1 8	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	疆 Tallon of	64-QAM	2/3	6	312	648	208	432	52.0	108.0	
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5	
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0	

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

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

This submittal(s) (test report) is intended for **FCC ID**: **2AG94-C-8068** filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

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

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 3.18dB Radiated measurement: +/- 3.91dB

4. DESCRIPTION OF TEST MODES

NO.		TI	EST MODE DESCRIPTION	ON		
1	Employee T. Employee	William (a) (a) (b) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	Low channel TX	3 Allestation of Gu	100	NO.
2	© Martinor of Globar	100	Middle channel TX			1
3	GO.		High channel TX	校 jill	K Compliance	® # Janon of Globe
4	拉那。	10 mm	Normal operating	® #	testation of Glove	,C

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.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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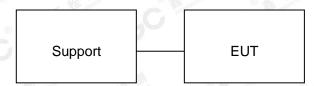


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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Support equipment

Item	Equipment	manufacturer	Remark		
1	PC	DELL	Vostro 2421	Support	
2	Serial-port board	N/A	FT232	Support	

5.3. SUMMARY OF TEST RESULTS

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

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6. TEST FACILITY

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

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

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

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Power sensor	Aglient	U2021XA	MY54110007	Sep.21, 2017	Sep.20, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Active loop antenna (9K-30MHz)	SCHWARZBECK	FMZB1519	1519-038	Sep.28, 2017	Sep.27, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.18, 2017	May.17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018

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7. OUTPUT POWER

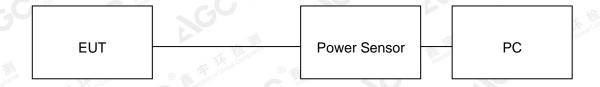
7.1. MEASUREMENT PROCEDURE

For average power test:

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

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

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



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7.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	OUTPUT POWER	200	COO	100
TEST MODE	802.11b with data rate 1		-till	The Samueland

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	11.59	30	Pass
2.437	11.41	30	Pass
2.462	11.27	30	Pass

TEST ITEM	OUTPUT POWER	天 天 tomplane	© Amerikan of Clobs	® Allesterion of On	100
TEST MODE	802.11g with data rate	6 illoror C	10		

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	10.34	30	Pass
2.437	10.58	30	Pass
2.462	10.61	30	Pass

TEST ITEM	OUTPUT POWER		TK THE THE	® # FA Goding Comme	3
TEST MODE	802.11n 20 with data rate 6.5	Figure of Colonal Committee	® Milestation of Clobal C	GC CC	

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	10.24	30	Pass
2.437	10.41	30	Pass
2.462	10.66	30	Pass

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Kil phiance	Kil plance	The ?
Global	3Mobal Collin	a Tologo

TEST ITEM	OUTPUT POWER	(S) Signature of Coloration	® # John of Global Collin	® Allestation of Co
TEST MODE	802.11n 40 with data rate 13.5	CO CO	C 70	

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.422	9.59	30	Pass
2.437	9.43	30	Pass
2.452	9.52	30	Pass

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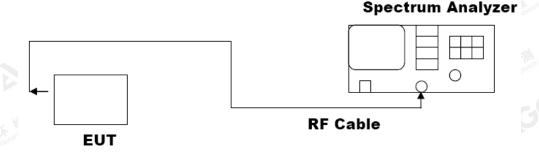
8. 6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW ≥ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

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

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



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8.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH	(C) Alteration of Giova	® Mestalion of Glob	(S) Attestation of the
TEST MODE	802.11b with data rate 11	100		

LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Applicable Limits			
	channel	MHz	Criteria	
1 GO	Low Channel	9.551	PASS	
>500KHZ	Middle Channel	9.089	PASS	
® # Applion of Colonal Co.	High Channel	10.030	PASS	

TEST ITEM	6DB BANDWIDTH	obal Compliance @	Alles Jalon of Condi	Altestation of	100
TEST MODE	802.11g with data rate 54	F.C.		-101J	

LIMITS AND MEASUREMENT RESULT				
	Applicable Limits			
Applicable Limits	channel	MHz	Criteria	
NG O	Low Channel	15.13	PASS	
>500KHZ	Middle Channel	15.13	PASS	
© Figure of Cooker Co	High Channel	15.31	PASS	

TEST ITEM	6DB BANDWIDTH	© Mestation of Clobs	© Allestation of active	CO	
TEST MODE	802.11n 20 with data rate	65	3	TIME:	不

LIMITS AND MEASUREMENT RESULT					
Annliaghta Limita		Applicable Limits			
Applicable Limits	channel	MHz	Criteria		
>500KHZ	Low Channel	15.13	PASS		
	Middle Channel	15.13	PASS		
	High Channel	15.13	PASS		

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TEST ITEM	6DB BANDWIDTH	© Manual Cooking	(a) Martin de Constitution (b) Martin de Constitution de Const
TEST MODE	802.11n 40 with data rate 135	(C)	

LIMITS AND MEASUREMENT RESULT				
Applicable Limite		Applicable Limits		
Applicable Limits	channel	MHz	Criteria	
and a second	Low Channel	35.17	PASS	
>500KHZ	Middle Channel	35.16	PASS	
	High Channel	35.15	PASS	

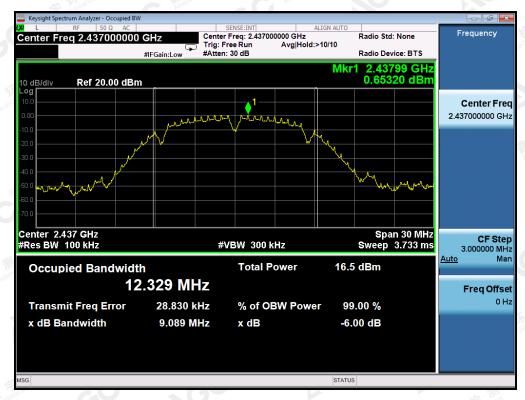
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802.11b TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



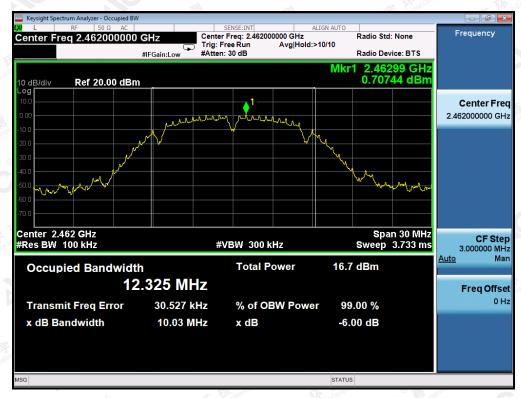
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



802.11g TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



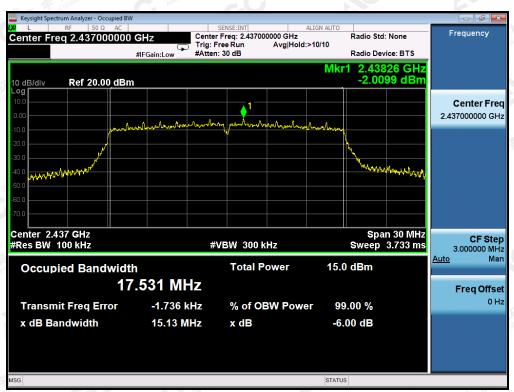
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802.11n (20) TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



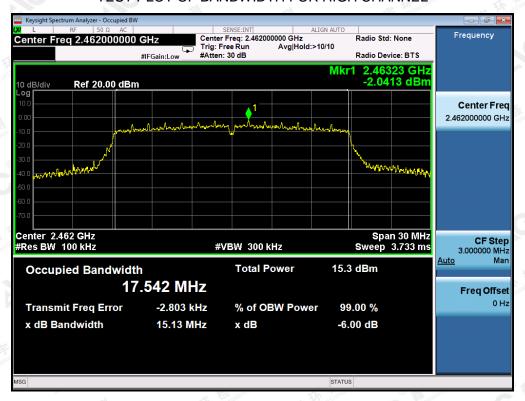
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



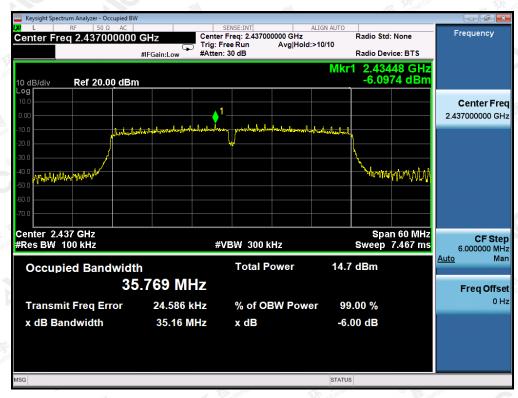
802.11n (40) TEST RESULT
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

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

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

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

The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

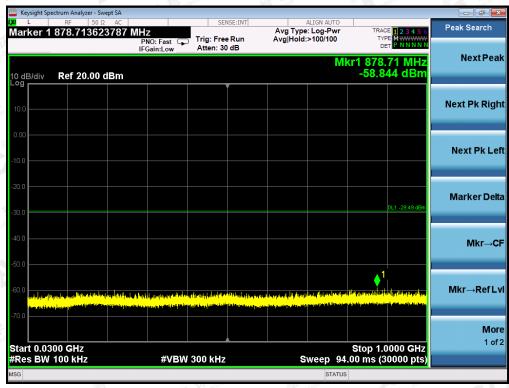
9.4. LIMITS AND MEASUREMENT RESULT

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

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TEST PLOTS OF 802.11b OUT OF BAND EMISSIONS MODULATION IN LOW CHANNEL



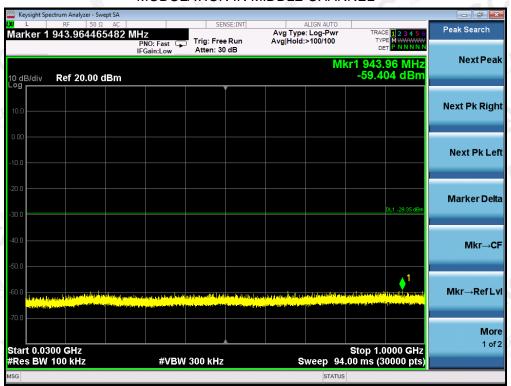


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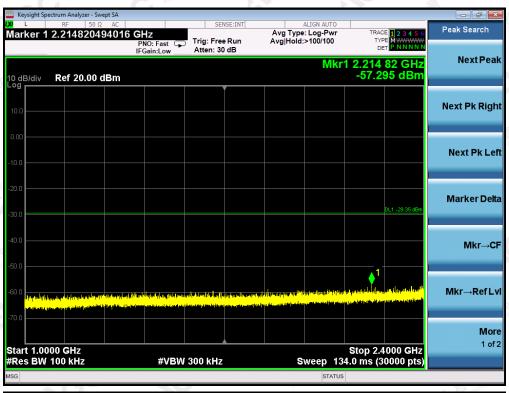


TEST PLOTS OF 802.11b OUT OF BAND EMISSIONS MODULATION IN MIDDLE CHANNEL



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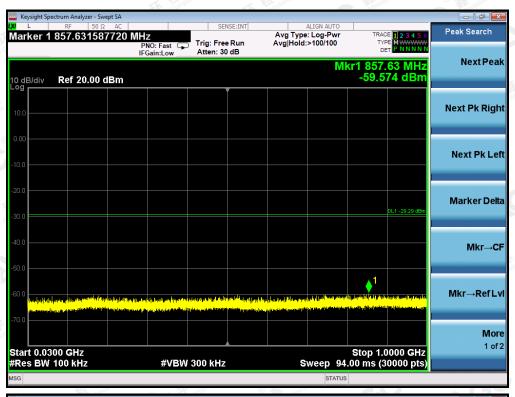


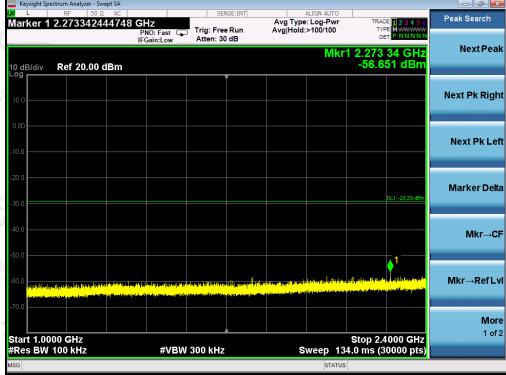


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TEST PLOTS OF 802.11b OUT OF BAND EMISSIONS MODULATION IN HIGH CHANNEL





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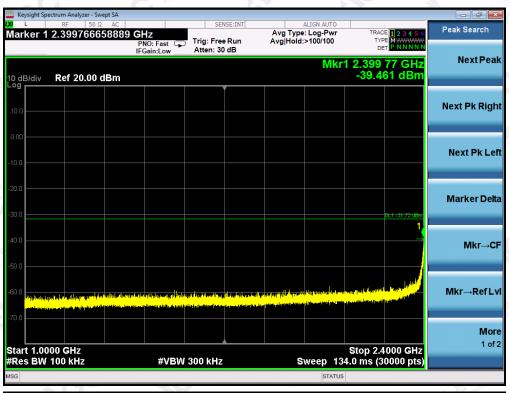


TEST PLOTS OF 802.11g OUT OF BAND EMISSIONS MODULATION IN LOW CHANNEL



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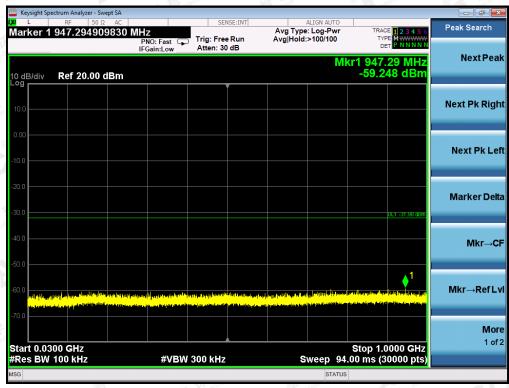


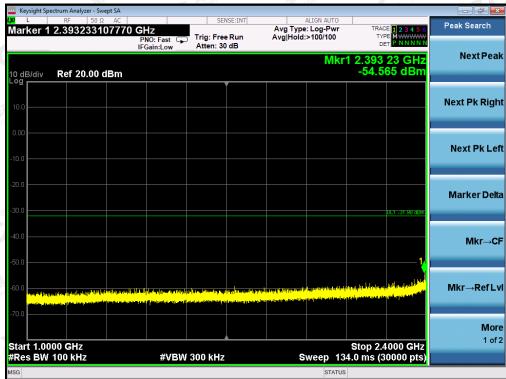


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TEST PLOT OF 802.11g OUT OF BAND EMISSIONS MODULATION IN MIDDLE CHANNEL



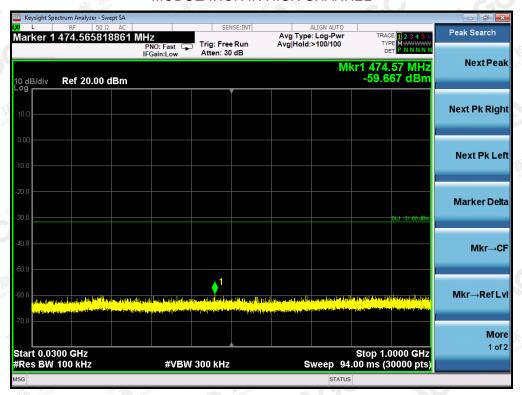


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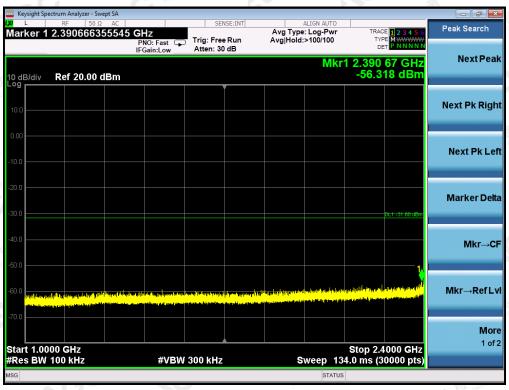


TEST PLOTS OF 802.11g OUT OF BAND EMISSIONS MODULATION IN HIGH CHANNEL



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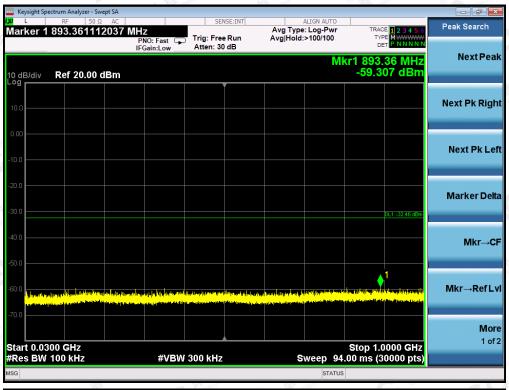


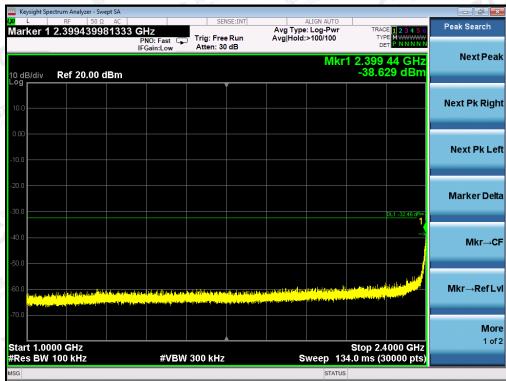


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TEST PLOTS OF 802.11n20 OUT OF BAND EMISSIONS MODULATION IN LOW CHANNEL



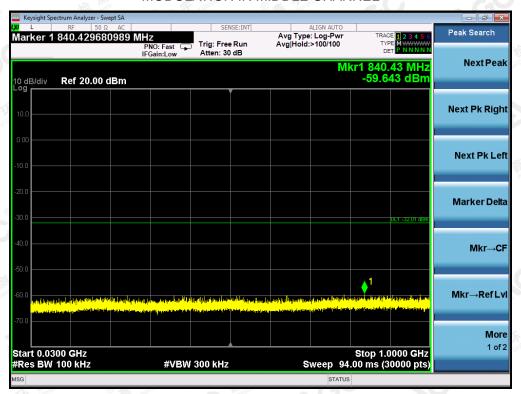


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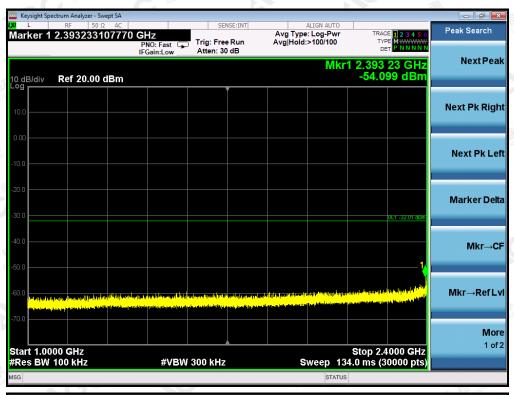


TEST PLOTS OF 802.11n20 OUT OF BAND EMISSIONS MODULATION IN MIDDLE CHANNEL



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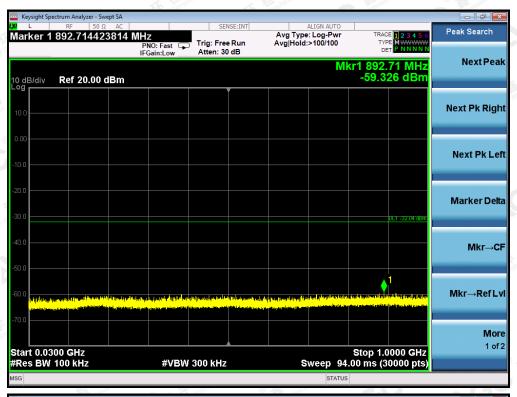


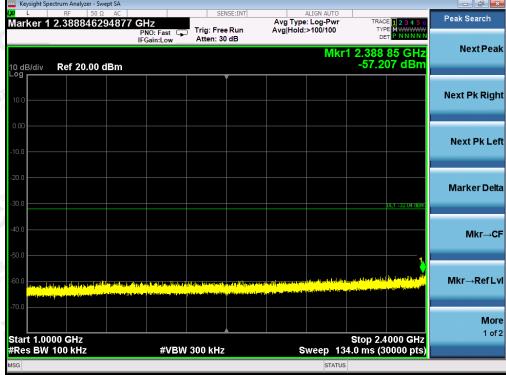


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TEST PLOTS OF 802.11n20 OUT OF BAND EMISSIONS MODULATION IN HIGH CHANNEL



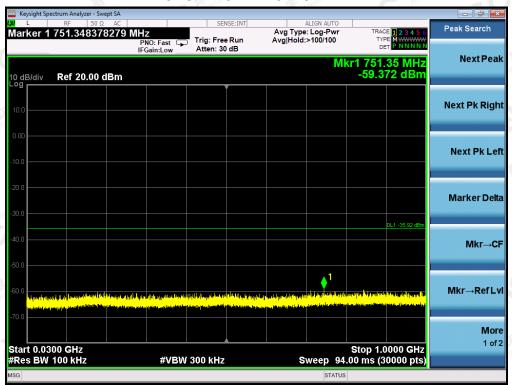


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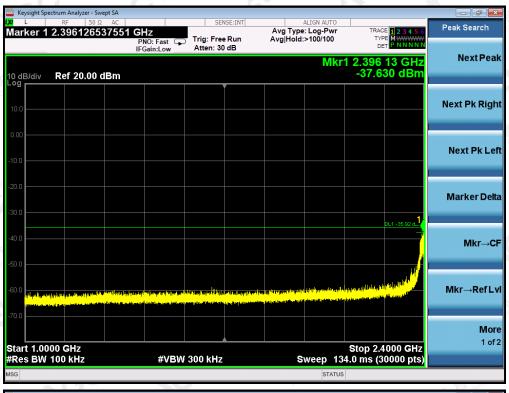


TEST PLOTS OF 802.11n40 OUT OF BAND EMISSIONS MODULATION IN LOW CHANNEL



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