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FCC Test Report

Report No.: AGC01600180201FE06

FCC ID	: SMC-SA
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: JMGO Smart Home Theater
BRAND NAME	: N/A
MODEL NAME	: Refer to page 5
CLIENT	: SHENZHEN HOLATEK CO., LTD
DATE OF ISSUE	: Mar. 31, 2018
STANDARD(S) TEST PROCEDURE(S)	FCC Part 15.407 KDB 789033 D02 v02r01
REPORT VERSION	: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

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

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

1. VERIFICATION OF CONFORMITY

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Tested by

Max 2ha

Max Zhang(Zhang Yi)

Mar. 31, 2018

Reviewed by

BONG Nie

Bart Xie(Xie Xiaobin))

Mar. 31, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

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

A major technical description of EUT is described as following

Operation Frequency	5150 MHz~5250MHz;5725 MHz~5850MHz
Output Power	IEEE 802.11a20:13.36dBm; IEEE 802.11n(20):9.36dBm; IEEE802.11 ac(20):9.28dBm; IEEE802.11n(40):7.36dBm IEEE802.11ac(40):7.25dBm EEE802.11ac(80):4.85dBm
Modulation	BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM,OFDM
Number of channels	9 for 20MHZ bandwidth system4 for 40MHZ bandwidth system2 for 80MHZ bandwidth system
Hardware Version	VerC
Software Version	1.0.18
Antenna Designation	Internal antenna
Number of transmit chain	1
Antenna Gain	3dBi
Power Supply	AC120V/60Hz

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	Frequency Band	Channel Number	Frequency
122	36	5180 MHz	20	149	5745 MHz
SY N	38	5190 MHz		151	5755 MHz
	40	5200 MHz	5725 GHz~ 5850GHz	153	5765 MHz
5150 GHz \sim	42	5210 MHz		155	5775MHz
5250GHz	44	5220 MHz		157	5785 MHz
	46	5230 MHz		159	5795 MHz
	48	5240 MHz	20 - 0	161	5805 MHz
				165	5825MHz

Note: For 20MHZ bandwidth system use Channel 36,40,44,48,149,153,157,161,165; For 40MHZ bandwidth system use Channel 38,46,151,159; For 80MHZ bandwidth system use Channel 42,155

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

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

2.4. 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.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.407 rules KDB 789033 D02

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.





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3. MEASUREMENT UNCERTAINTY

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

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



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4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate(Mbps)
802.11a/n20/ac20	36,40,44,48,149,153,157,161,165	36,38,48,149, 157,165	OFDM	6/6.5
802.11n40/ac40	38,46,151,159	38,46, 151,159	OFDM	13.5
802.11ac80	42,155	42,155	OFDM	13.5

Note:

- 1. The EUT has been set to operate continuously on tested channel individually, and the EUT is operating at its maximum duty cycle>or equal 98%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.





5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:

EUT

5.2. EQUIPMENT USED IN EUT SYSTEM

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

5.3. SUMMARY OF TEST RESULTS

FCC RULES	TCC RULES DESCRIPTION OF TEST	
§15.407	6dB Bandwidth	Compliant
§15.407	Emission Bandwidth	Compliant
§15.407	Maximum conducted output power	Compliant
§15.407	Conducted Spurious Emission	Compliant
§15.407	Maximum Conducted Output Power Density	Compliant
§15.209	Radiated Emission	Compliant
§15.407	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant





6. TEST FACILITY

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

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

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

TEST EQUIPMENT OF RADIATED EMISSION TEST

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



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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

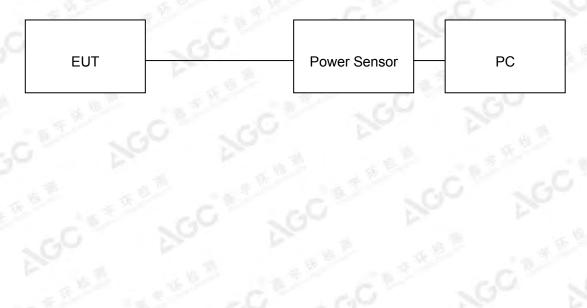
For average power test:

- 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 KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

7.2. TEST SET-UP

AVERAGE POWER SETUP





7.3. LIMITS AND MEASUREMENT RESULT

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检测

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION				
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
5180	12.85	24	Pass	
5200	13.12	24	Pass	
5240	13.36	24	Pass	
5745	12.15	30	Pass	
5785	12.36	30	Pass	
5825	12.69	30	Pass	

Frequency	Average Power (dBm)	Applicable Limits	Pass or Fail
(MHz)	(dBiii)	(dBm)	
5180	9.16	24	Pass
5200	9.25	24	Pass
5240	9.36	24	Pass
5745	8.79	30	Pass
5785	8.89	30	Pass
5825	9.04	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11AC20 MODULATION					
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail		
5180	9.04	24	Pass		
5200	9.12	24	Pass		
5240	9.28	24	Pass		
5745	8.54	30	Pass		
5785	8.72	30	Pass		
5825	8.68	30	Pass		

LIMITS AND MEASUREMENT RESULT FOR 802.11N40 MODULATION				
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
5190	7.25	24	Pass	
5230	7.36	24	Pass	
5755	6.85	30	Pass	
5795	6.74	30	Pass	

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LIMITS AND MEASUREMENT RESULT FOR 802.11AC40 MODULATION					
	Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
	5190	7.14	24	Pass	
虚	5230	7.25	24	Pass	
- 1	5755	6.74	30	Pass	
20	5795	6.52	30	Pass	

LIN	IITS AND MEASUREMEN	T RESULT FOR 802.11AC80 MC	DULATION
Frequency (MHz)	Average (dB		Pass or Fail
5210	4.8	5 24	Pass
5775	4.1	2 30	Pass



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8. 6dB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

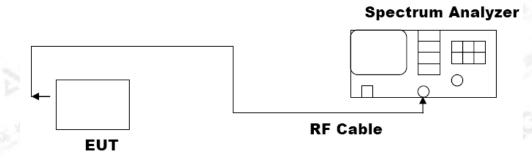
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator

- 2. Set the EUT Work on operation frequency individually.
- 3. Set RBW = 100kHz.
- 4. Set the VBW \geq 3*RBW. Detector = Peak. Trace mode = max hold.

5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

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





8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AN	LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION					
Annliaghta Limita		Applicable Limits				
Applicable Limits	Test Data	a (MHz)	Criteria			
. CC	5745MHz	16.42	PASS			
>500KHZ	5785MHz	16.41	PASS			
1. 1. 1. 1.	5825MHz	16.44	PASS			

LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION					
Annlinghla Limita		Applicable Limits			
Applicable Limits	Test Data (MHz)		Criteria		
10	5745MHz	17.58	PASS		
	5785MHz	17.61	PASS		
>500KHZ	5825MHz	17.61	PASS		
a Star	5755MHz	36.39	PASS		
No.	5795MHz	36.32	PASS		

LIMITS AND MEASUREMENT RESULT FOR 802.11AC20/40/80 MODULATION					
Applicable Limits		Applicable Limits			
	Test Data	a (MHz)	Criteria		
	5745MHz	17.58	PASS		
	5785MHz	17.64	PASS		
	5825MHz	17.58	PASS		
	5755MHz	36.38	PASS		
	5795MHz	36.34	PASS		
Part Part	5775MHz	75.73	PASS		





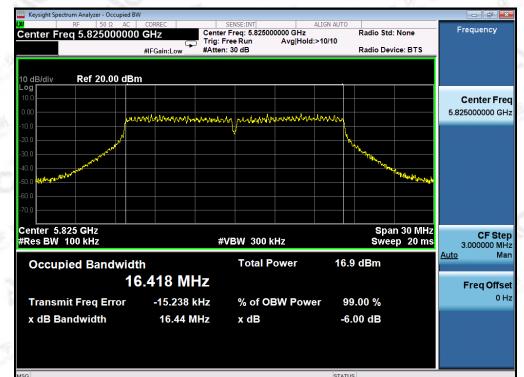
802.11a20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5745MHz



TEST PLOT OF BANDWIDTH FOR 5785MHz





TEST PLOT OF BANDWIDTH FOR 5825MHz

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802.11n20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5745MHz





TEST PLOT OF BANDWIDTH FOR 5785MHz

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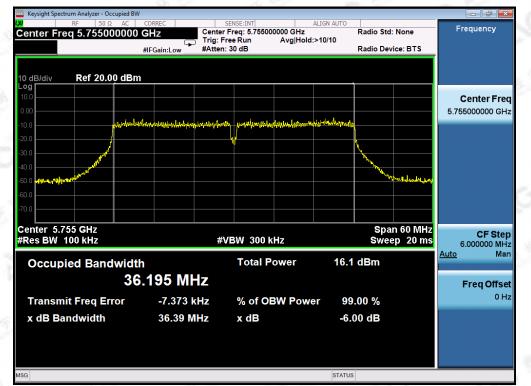
TEST PLOT OF BANDWIDTH FOR 5825MHz



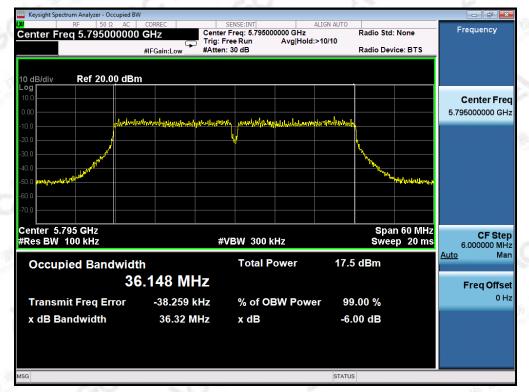


802.11n40 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5755MHz



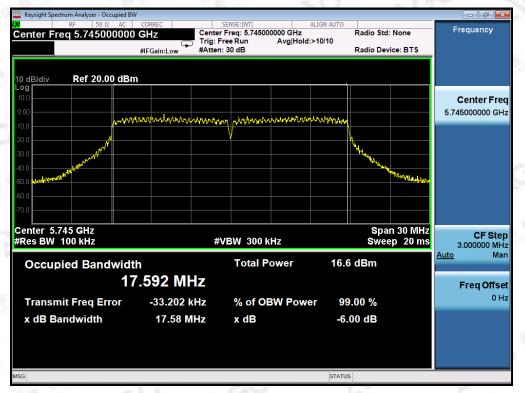
TEST PLOT OF BANDWIDTH FOR 5795MHz





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802.11ac20 TEST RESULT TEST PLOT OF BANDWIDTH FOR 5745MHz

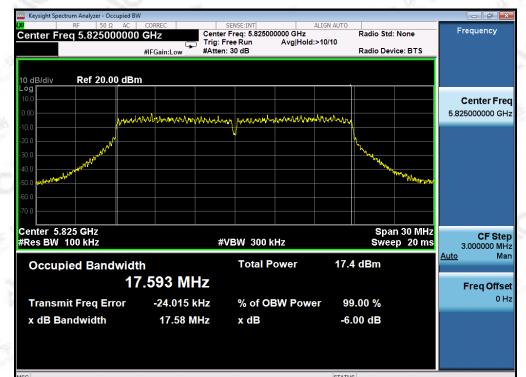


TEST PLOT OF BANDWIDTH FOR 5785MHz



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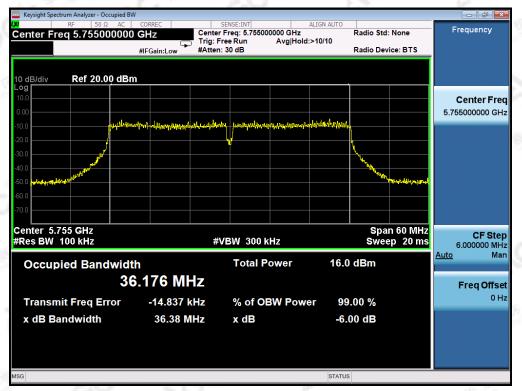


TEST PLOT OF BANDWIDTH FOR 5825MHz

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802.11ac40 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5755MHz



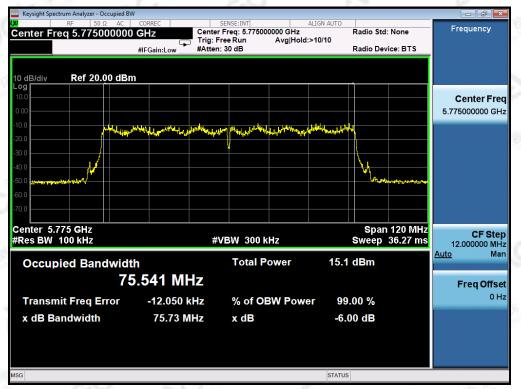


TEST PLOT OF BANDWIDTH FOR 5795MHz

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802.11ac80 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5775MHz





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9. EMISSION BANDWIDTH

9.1. MEASUREMENT PROCEDURE

- a) Set RBW = approximately 1% of the emission bandwidth.
- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.

e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:

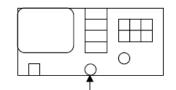
- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1 % to 5 % of the OBW
- 4. Set VBW \geq 3 · RBW
- 5. Peak detection and max hold mode (until the trace stabilizes) shall be used.
- 6. Use the 99 % power bandwidth function of the instrument

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

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

Spectrum Analyzer





EUT

RF Cable



9.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION				
Test Channel	-26dBc EBW (MHz)	99% OBW (MHz)	Criteria	
5180MHz	19.48	16.480	PASS	
5200MHz	19.46	16.478	PASS	
5240MHz	19.51	16.488	PASS	

LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION			
Test Channel	-26dBc EBW (MHz)	99% OBW (MHz)	Criteria
5180MHz	20.14	17.641	PASS
5200MHz	20.16	17.640	PASS
5240MHz	19.96	17.643	PASS
5190MHz	40.49	36.213	PASS
5230MHz	40.35	36.237	PASS

LIMITS ANI	LIMITS AND MEASUREMENT RESULT FOR 802.11AC20/40/80 MODULATION		
Test Channel	-26dBc EBW (MHz)	99% OBW (MHz)	Criteria
5180MHz	19.97	17.640	PASS
5200MHz	20.21	17.635	PASS
5240MHz	20.09	17.637	PASS
5190MHz	40.42	36.218	PASS
5230MHz	40.49	36.236	PASS
5210MHz	80.58	75.738	PASS

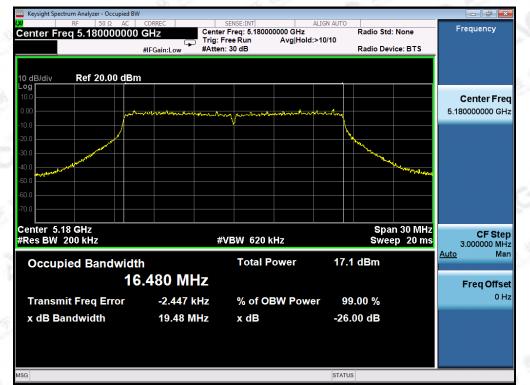
A 26-dB bandwidth that straddles into U-NII 2A band but its 99% occupied power bandwidth does not. If DFS is required, the device must be able to detect radar signal within its 99% occupied power bandwidth. For this rare case, DFS requirement does not apply.





802.11a20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5180MHz



TEST PLOT OF BANDWIDTH FOR 5200MHz





TEST PLOT OF BANDWIDTH FOR 5240MHz

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802.11n20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5180MHz





TEST PLOT OF BANDWIDTH FOR 5200MHz

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TEST PLOT OF BANDWIDTH FOR 5240MHz

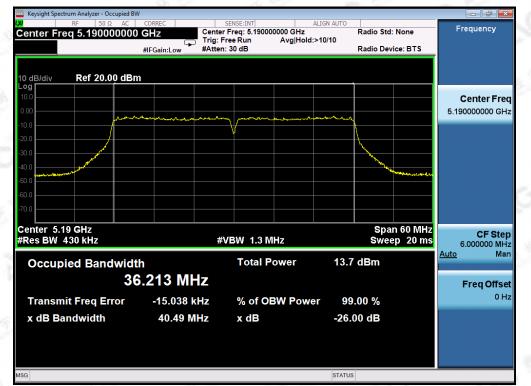




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802.11n40 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5190MHz



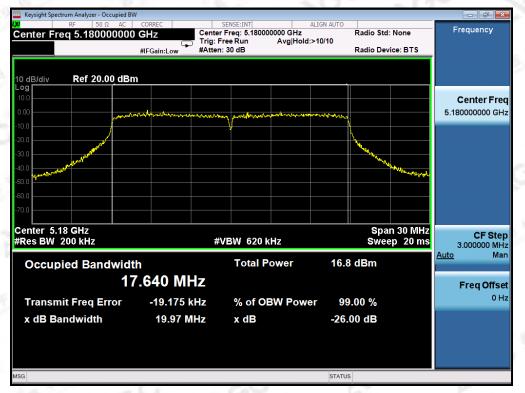
TEST PLOT OF BANDWIDTH FOR 5230MHz



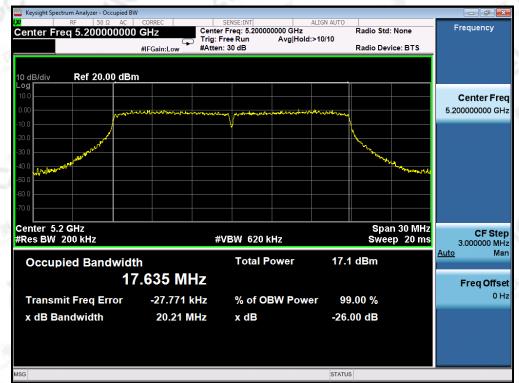


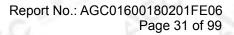
Report No.: AGC01600180201FE06 Page 30 of 99

802.11ac20 TEST RESULT TEST PLOT OF BANDWIDTH FOR 5180MHz



TEST PLOT OF BANDWIDTH FOR 5200MHz





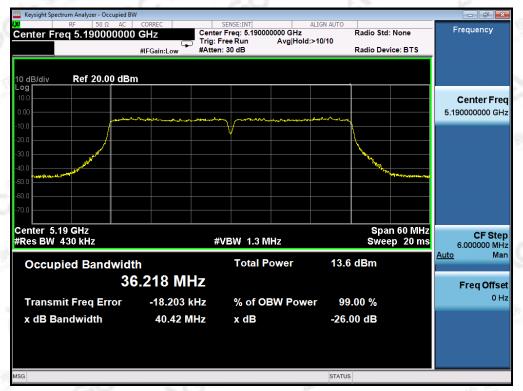


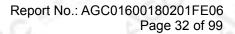


TEST PLOT OF BANDWIDTH FOR 5240MHz

802.11ac40 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5190MHz





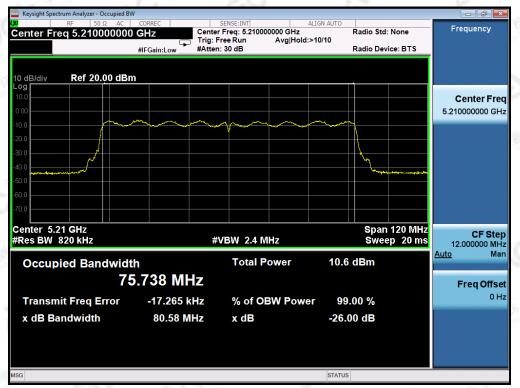




TEST PLOT OF BANDWIDTH FOR 5230MHz

802.11ac80 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5210MHz





10. MAXIMUM CONDUCTED OUTPUT PEAK POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

Refer to KDB 789033 section F

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

LIMITS AND	LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION		
Frequency (MHz)	Power density (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5180	7.263	11	Pass
5200	7.385	11.0	Pass
5240	7.009	11	Pass
Frequency (MHz)	Power density (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	2.274	30	Pass
5785	2.866	30	Pass
5825	2.987	30	Pass



Frequency (MHz)	Power density (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5180	2.535	11	Pass
5200	2.792	11	Pass
5240	2.277	11	Pass
5190	-3.172	_G11	Pass
5230	-0.748	11	Pass
Frequency (MHz)	Power density (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	-2.272	30	Pass
5785	-0.565	30	Pass
5825	-1.209	30	Pass
5755	-5.979	30	Pass
5795	-5.045	30	Pass

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LIMITS AND MEASUREMENT RESULT FOR 802.11AC20/40/80 MODULATION			
Frequency (MHz)	Power density (dBm/MHz)	Applicable Limits (dBm)	Pass or Fai
5180	2.412	11	Pass
5200	2.324	11	Pass
5240	1.669	11	Pass
5190	-3.211	11	Pass
5230	-0.858	11	Pass
5210	-7.729	C 11 C	Pass
Frequency (MHz)	Power density (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fai
5745	-2.622	30	Pass
5785	-0.974	30	Pass
5825	-1.008	30	Pass
5755	-5.769	30	Pass
5795	-4.788	30	Pass
5775	-9.227	30	Pass

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802.11a20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz

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TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz





TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz

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TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz

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TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz



802.11n20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz

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TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz





TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz

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TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz

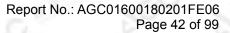


TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz

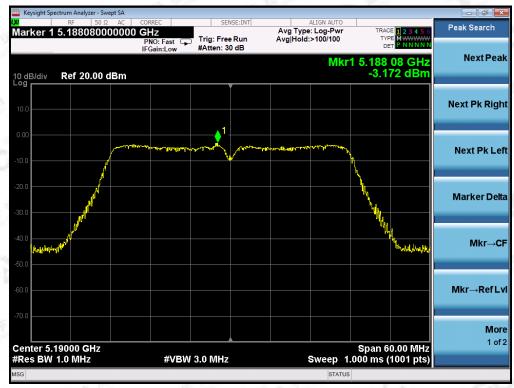
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TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz







802.11n40 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR 5190MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz



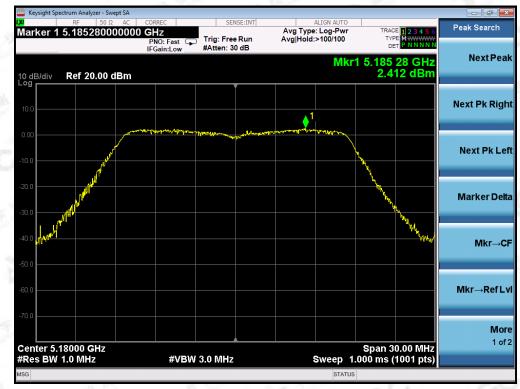


TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz

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TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz



802.11ac20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz

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TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz





TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz

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TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz

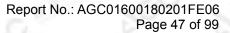


TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz

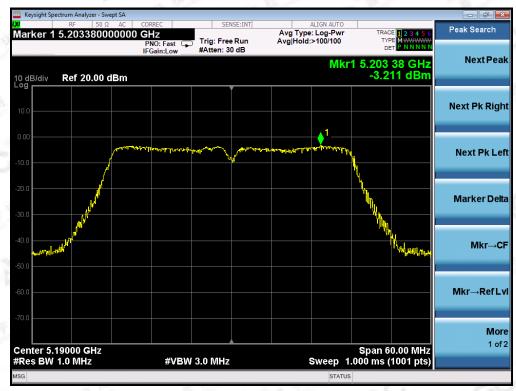
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TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz







802.11ac40 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR 5190MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz





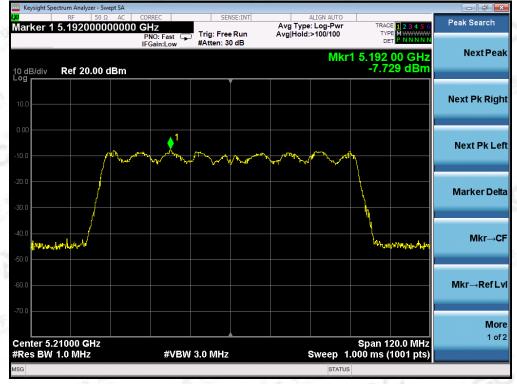
TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz

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TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz





802.11ac80 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR 5210MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5775MHz



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11. CONDUCTED SPURIOUS EMISSION

11.1. 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 KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

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

The same as described in section 8.2.

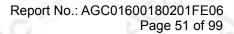
11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

11.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limite	Measurement R	esult
Applicable Limits	Test channel	Criteria
-27dBm/MHz	5150MHz-5250MHz	PASS
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edgeincreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge, and from 5 MHz above or below the band edge.	5725MHz-5850MHz	PASS







FOR 802.11A20 MODULATION

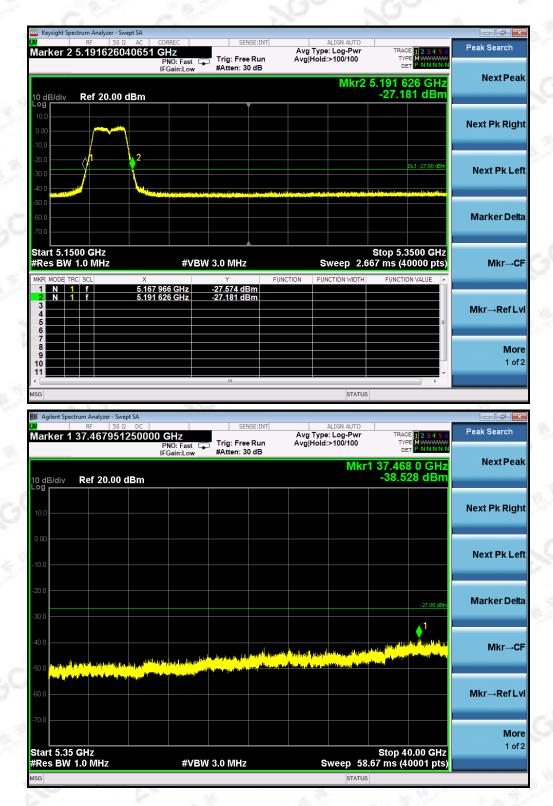
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5180MHz

Peak Search Avg Type: Log-Pw Avg|Hold:>100/100 940.125253131 MHz Trig: Free Run Atten: 30 dB PNO: Fast IFGain:Low **Next Pea** Mkr1 940.125 MHz -59.556 dBm Ref 20.00 dBm IO dB/div Next Pk Right Next Pk Left Marker Delta Mkr→CF **≜**¹ Mkr→Ref Lvl More 1 of 2 Stop 1.0000 GHz Sweep 93.33 ms (40000 pts) Start 0.0300 GHz #Res BW 100 kHz #VBW 300 kHz Marker 1 5.149584989625 GHz PNO: Fast IFGain:Low Avg Type: Log-Pwr Avg|Hold:>100/100 Peak Search 2345 Trig: Free Run Atten: 30 dB TYP DE Mkr1 5.149 58 GHz -38.616 dBm Next Peak 10 dB/div Ref 20.00 dBm Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLv More Start 1.000 GHz #Res BW 1.0 MHz 1 of 2 Stop 5.150 GHz Sweep 8.000 ms (40000 pts) #VBW 3.0 MHz

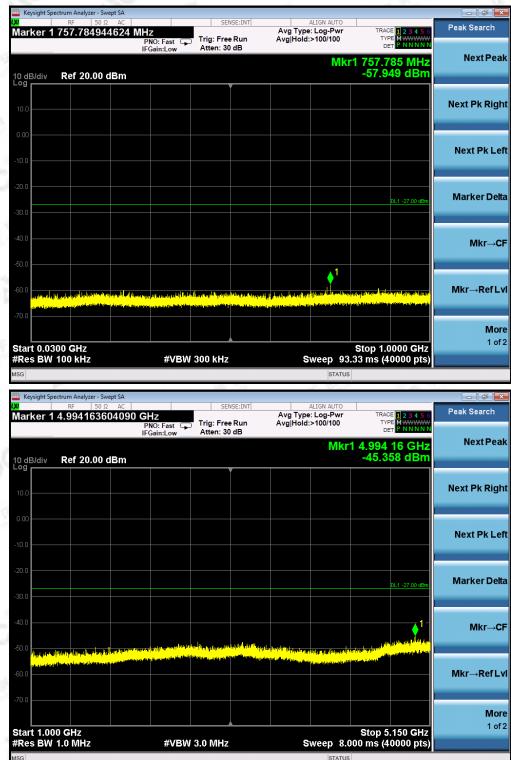
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TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5240MHz

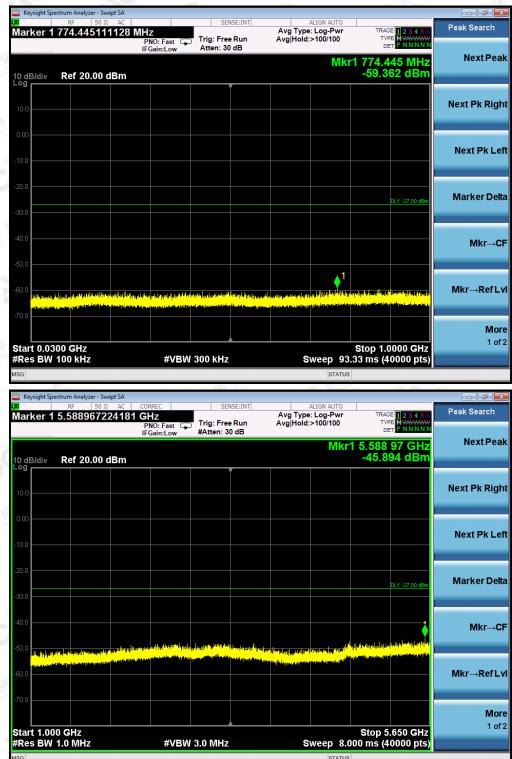
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	Ω AC CORREC	SENSE:INT	ALIGN AUTO		Peak Search
Marker 2 5.251827	044992 GHZ PNO: Fast (IFGain:Low	➡ Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N N	
	in Guineon		Mkr2	5.251 827 GHz	NextPea
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10.0					
20.0		√ ¹ → ²		DL1 -27.00 dBm	
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60.0					Marker De
70.0					
Start 5.1500 GHz Res BW 1.0 MHz	#VB	W 3.0 MHz	Sweep 2.6	Stop 5.3500 GHz 67 ms (40000 pts)	Mkr→
IKR MODE TRC SCL	Х	Y F	UNCTION FUNCTION WIDTH	FUNCTION VALUE	
1 N 1 f 2 N 1 f 3	5.228 227 GHz 5.251 827 GHz	-26.601 dBm -27.426 dBm			
4				=	Mkr→RefL
6 7					
8 9					M o 1 o
10					10
				· ·	
		m	STATUS	4	
SG	vept SA	m	STATUS		
SG Agilent Spectrum Analyzer - Sv RF 50	Ω DC 1250000 GHz	m SENSE:INT	ALIGN AUTO	TRACE 23456	Peak Search
SG Agilent Spectrum Analyzer - Sv RF 50	Ω DC		ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100		Peak Search
Agilent Spectrum Analyzer - Sv RF 50 Iarker 1 38.07779	Ω DC 1250000 GHz PNO: Fast 0 IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	1 38.077 8 GHz	Peak Search
sg Agilent Spectrum Analyzer - Sv RF 50 Narker 1 38.07779 0 dB/div Ref 20.00	Ω DC 1250000 GHz PNO: Fast 0 IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100		Peak Search
Agilent Spectrum Analyzer - Sw RF 50 Iarker 1 38.07779	Ω DC 1250000 GHz PNO: Fast 0 IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	1 38.077 8 GHz	Peak Search Next Pe
Agilent Spectrum Analyzer - Sw RF 50 Iarker 1 38.07779	Ω DC 1250000 GHz PNO: Fast 0 IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	1 38.077 8 GHz	Peak Search Next Pe
Agilent Spectrum Analyzer - Sw RF 50 Tarker 1 38.07779	Ω DC 1250000 GHz PNO: Fast 0 IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	1 38.077 8 GHz	Peak Search Next Pe Next Pk Rig
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G RF 50 Iarker 1 38.07779 Ref 20.00 0 dB/div Ref 20.00 0 0 0 0 0 0	Ω DC 1250000 GHz PNO: Fast 0 IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	1 38.077 8 GHz	Peak Search Next Pe Next Pk Rig Next Pk Li
SG Agilent Spectrum Analyzer - Sw RF 50 Tarker 1 38.07779 0 dB/div Ref 20.00 9 10.0 10.0 20.0	Ω DC 1250000 GHz PNO: Fast 0 IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	1 38.077 8 GHz	Peak Search Next Pea Next Pk Rig Next Pk Lu
G RF 50 Iarker 1 38.07779 Ref 20.00 0 dB/div Ref 20.00 0	Ω DC 1250000 GHz PNO: Fast 0 IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	1 38.077 8 GHz -38.736 dBm	Peak Search Next Pe Next Pk Rig Next Pk Li
G Agilent Spectrum Analyzer - Su RF 50 Narker 1 38.07779 0 dB/div Ref 20.00 9 0 10.0 0 0.00 0 10.0 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0	Ω DC 1250000 GHz PNO: Fast 0 IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr	-27.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk Li Marker De
SG I Agilent Spectrum Analyzer - Su RF 50 Aarker 1 38.07779 0 dB/div Ref 20.00 9 10.0 10.0 10.0 20.00 10.0 30.00 10.0	Ω DC 1250000 GHz PNO: Fast IFGain:Low 0 dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	170- 1 38.077 8 GHz -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
SG RF 50 Agilent Spectrum Analyzer - Sw RF 50 Aarker 1 38.07779 0 0 0 dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ω DC 1250000 GHz PNO: Fast IFGain:Low 0 dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr	170- 1 38.077 8 GHz -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr-4
O dB/div Ref 20.00 00 0 00 0 00 0 00 0 00 0 000 0	Ω DC 1250000 GHz PNO: Fast IFGain:Low 0 dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr	170- 1 38.077 8 GHz -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm -38.736 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr-J
SG RF 50 Agilent Spectrum Analyzer - Sw RF 50 Aarker 1 38.07779 0 0 0 dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ω DC 1250000 GHz PNO: Fast IFGain:Low 0 dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr	138.077 8 GHz -38.736 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr→C
G Agilent Spectrum Analyzer - Su RF 50 Narker 1 38.07779 0 dB/div Ref 20.00 9 10.0 10.0 10.0	Ω DC 1250000 GHz PNO: Fast IFGain:Low 0 dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr	-27.00 rBm	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr→Ref L Mkr→Ref L
G RF 50 Iarker 1 38.07779 Iarker 20.00 0 dB/div Ref 20.00 9 Iarker 1 38.07779 0 dB/div Ref 20.00 90 Iarker 1 38.07779 0 dB/div Ref 20.00 90 Iarker 1 38.07779 10.0 Iarker 1 38.07777 10.0	Ω DC 1250000 GHz PNO: Fast PNO: Fast PNO: Fast PNO: Fast PNO: Fast IFGain:Low Iffast	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr	138.077 8 GHz -38.736 dBm	

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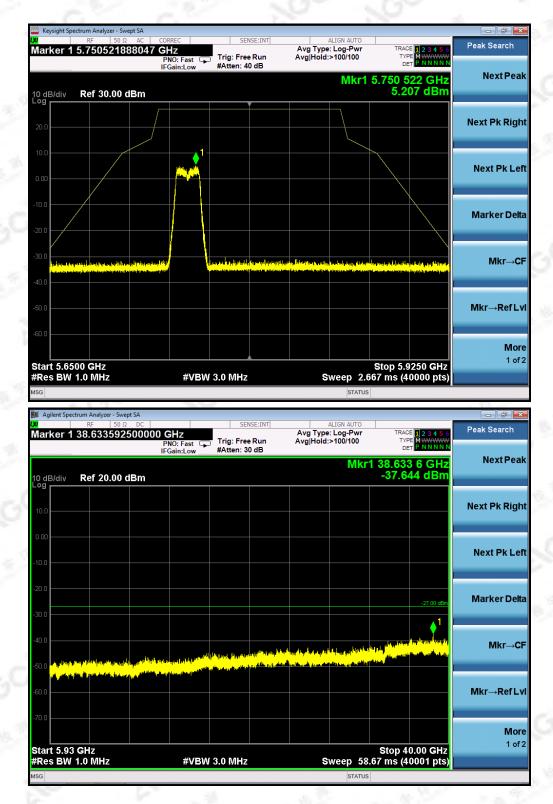


TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5745MHz

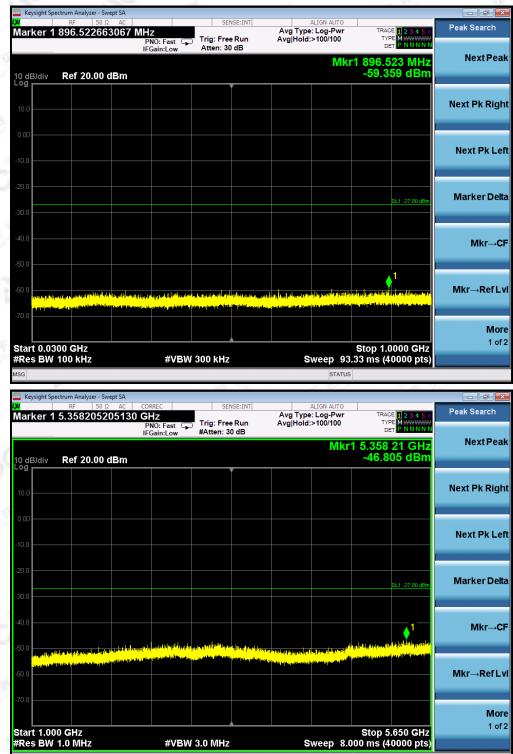
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TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5825MHz

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Marker 1	RF 50 Ω	17675 G			NSE:INT		ALIGN AUTO e: Log-Pwr d:>100/100	TRAC	E 1 2 3 4 5 6	Peak Search
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-30.0	والمراوية والمروان	Alaybet (Jacova a 1) I	alad with a faire	n llas anna duail de	the list optical		nt.Mag.Laliuraah	under de la compaña de la c		Mkr→
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ASG							STATUS			
			_				STATUS			
🗊 Agilent Spect	trum Analyzer - Swe RF 50 Ω	DC	211-	SE	NSE:INT	ΑναΤνο	ALIGN AUTO			Peak Search
XI I		DC 000000 ( P	GHZ NO: Fast Gain:Low	Takes For	e Run			TRAC	E E M W NNNN P NNNNN	
Agilent Spect	RF 50 Ω 37.130885	DC 000000 ( P IF	NO: Fast 🔾	Trig: Fre	e Run		ALIGN AUTO e: Log-Pwr d:>100/100	TRAC TYP DE 1 37.13	0 9 GHz	
Agilent Spect	RF 50 Ω	DC 000000 ( P IF	NO: Fast 🔾	Trig: Fre	e Run		ALIGN AUTO e: Log-Pwr d:>100/100	TRAC TYP DE 1 37.13		Peak Search
Agilent Spect	RF 50 Ω 37.130885	DC 000000 ( P IF	NO: Fast 🔾	Trig: Fre	e Run		ALIGN AUTO e: Log-Pwr d:>100/100	TRAC TYP DE 1 37.13	0 9 GHz	Peak Search
Agilent Spect	RF 50 Ω 37.130885	DC 000000 ( P IF	NO: Fast 🔾	Trig: Fre	e Run		ALIGN AUTO e: Log-Pwr d:>100/100	TRAC TYP DE 1 37.13	0 9 GHz	Peak Search Next Pe
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Agilent Spect	RF 50 Ω 37.130885	DC 000000 ( P IF	NO: Fast 🔾	Trig: Fre	e Run		ALIGN AUTO e: Log-Pwr d:>100/100	TRAC TYP DE 1 37.13	0 9 GHz	Peak Search Next Pe
I Agilent Speci Marker 1 10 dB/div og	RF 50 Ω 37.130885	DC 000000 ( P IF	NO: Fast 🔾	Trig: Fre	e Run		ALIGN AUTO e: Log-Pwr d:>100/100	TRAC TYP DE 1 37.13	0 9 GHz	Peak Search Next Pe Next Pk Rig Next Pk Li
I Agilent Speci Marker 1 10 dB/div og	RF 50 Ω 37.130885	DC 000000 ( P IF	NO: Fast 🔾	Trig: Fre	e Run		ALIGN AUTO e: Log-Pwr d:>100/100	TRAC TYP DE 1 37.13	-27.00 dBm	Peak Search Next Pe Next Pk Rig
Agilent Specia Agilent	RF 50 Ω 37.130885	DC 000000 ( P IF	NO: Fast 🔾	Trig: Fre	e Run		ALIGN AUTO e: Log-Pwr d:>100/100	TRAC TYI 1 37.13 -38.6	-27.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk Li
Agilent Specia Agilent	RF 50 Ω 37.130885	DC 000000 ( P IF	NO: Fast 🔾	Trig: Fre #Atten: 3	e Run 0 dB	Avg Hold	ALIGN AUTO e: Log-Pwr d:>100/100	TRAC TY TY DI 1 37.13 -38.6	-27.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De
Agilent Specia Agilent	RF 50 Ω 37.130885	dBm	NO: Fast 🔾	Trig: Fre #Atten: 3	e Run 0 dB	Avg Hold	ALIGN AUTO e: Log-Pwr d:>100/100 Mkr	TRAC TY TY DI 1 37.13 -38.6	-27.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De
I Agilent Speci Marker 1 10 dB/div og	Ref 20.00 (	dBm	NO: Fast 🔾	Trig: Fre #Atten: 3	e Run 0 dB	Avg Hold	ALIGN AUTO e: Log-Pwr d:>100/100	TRAC TY TY DI 1 37.13 -38.6	-27.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk Li
Agilent Speci Agilent Speci All Marker 1 10.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0	Ref 20.00 (	dBm	NO: Fast 🔾	Trig: Fre #Atten: 3	e Run 0 dB	Avg Hold	ALIGN AUTO e: Log-Pwr d:>100/100	TRAC TY TY DI 1 37.13 -38.6	-27.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr-4
Image     Agilent Specie       Marker 1     Image       Image     Image     Image       Image     Image     Image     Image       Image     Image     Image     Image     Image       Image     Image     Image </td <td>Ref 20.00 (</td> <td>dBm</td> <td>NO: Fast 🔾</td> <td>Trig: Fre #Atten: 3</td> <td>e Run 0 dB</td> <td>Avg Hold</td> <td>ALIGN AUTO e: Log-Pwr d:&gt;100/100</td> <td>TRAC TY TY DI 1 37.13 -38.6</td> <td>-27.00 dBm</td> <td>Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr-4</td>	Ref 20.00 (	dBm	NO: Fast 🔾	Trig: Fre #Atten: 3	e Run 0 dB	Avg Hold	ALIGN AUTO e: Log-Pwr d:>100/100	TRAC TY TY DI 1 37.13 -38.6	-27.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr-4
Agilent Specie       Agilent Specie       Agilent Specie       International Specie	Ref 20.00 (	dBm	NO: Fast Gain:Low	Trig: Fre #Atten: 3	e Run 0 dB		ALIGN AUTO e: Log-Pwr d:>100/100	TRACTOR TV DP 1 37.13 -38.6	0 9 GHZ 74 dBm -27 00 dBm	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr→Ref L

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### FOR 802.11N40 MODULATION

#### TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5190MHz

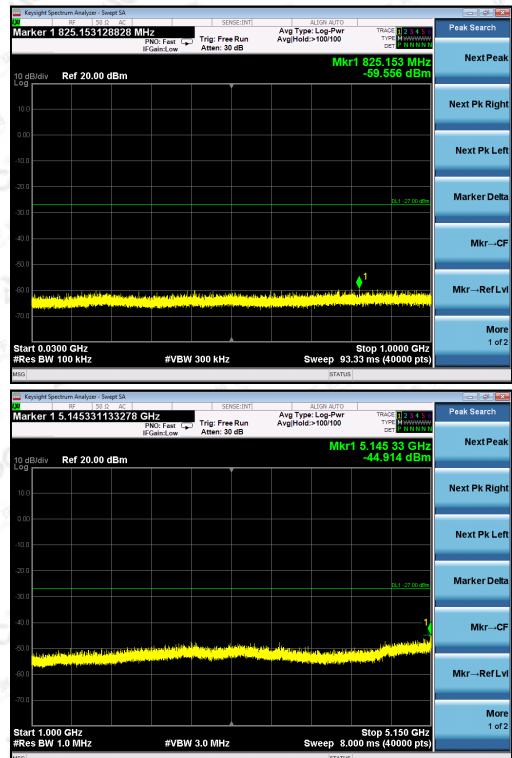
Peak Search Avg Type: Log-Pwi Avg|Hold:>100/100 1 835.289882247 MHz PNO: Fast IFGain:Low 234 Mark Trig: Free Run Atten: 30 dB Next Peal Mkr1 835.290 MHz -59.049 dBm 10 dB/div Ref 20.00 dBm Next Pk Right Next Pk Left Marker Delt Mkr→CF Mkr→RefLvl More 1 of 2 Start 0.0300 GHz #Res BW 100 kHz Stop 1.0000 GHz Sweep 93.33 ms (40000 pts) #VBW 300 kHz STATUS ight Spectrum Analyzer - Swept SA Marker 1 5.110055251381 GHz **Peak Search** Avg Type: Log-Pwi Avg|Hold:>100/100 Trig: Free Run Atten: 30 dB PNO: Fast 😱 IFGain:Low Mkr1 5.110 06 GHz -43.716 dBm Next Peak Ref 20.00 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLv More 1 of 2 Start 1.000 GHz #Res BW 1.0 MHz Stop 5.150 GHz Sweep 8.000 ms (40000 pts) #VBW 3.0 MHz

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RF 50 arker 2 5.211646	041127 GHz	SENSE:INT	ALIGN AUTO	TRACE 1 2 3 4 5 6	Peak Search
	PNO: Fast ( IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:>100/100	DET P NNNN	
			Mkr2 5	.211 646 GHz	NextPe
dB/div Ref 20.00	) dBm	Ţ,		-25.879 dBm	
0.0					Next Pk Rig
0.0					,
20.0	2				
0.0	<u>\</u>			DL1 -27.00 dBm	Next Pk L
i0.0					MarkarDa
0.0					Marker De
tart 5.1500 GHz Res BW 1.0 MHz	#VB	W 3.0 MHz	Sweep 2.66	stop 5.3500 GHz 7 ms (40000 pts)	Mkr→
KR MODE TRC SCL	X		INCTION FUNCTION WIDTH	FUNCTION VALUE	
1 N 1 f 2 N 1 f 3	5.168 510 GHz 5.211 646 GHz	-26.309 dBm -25.879 dBm			
4					Mkr→Refl
6					
8					Мо
0				-	1 c
				•	
G			STATUS	4	
Agilent Spectrum Analyzer - Sv		" SENSE:INT		4	
Agilent Spectrum Analyzer - Sv RF 50 Iarker 1 37.65679	Ω DC 3750000 GHz	SENSE:INT	ALIGN AUTO	TRACE 1 2 3 4 5 6 TYPE MWWWWW	Peak Search
Agilent Spectrum Analyzer - Sv RF 50	Ω DC		ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100		Peak Search
Agilent Spectrum Analyzer - Sv RF 50 Jarker 1 37.656793	Ω DC 3750000 GHz PNO: Fast ( IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MAXWAW DET PINNINN 37.656 8 GHz -38.719 dBm	Peak Search
Agilent Spectrum Analyzer - Sv RF 50	Ω DC 3750000 GHz PNO: Fast ( IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	37.656 8 GHz	Peak Search Next Pe
Agilent Spectrum Analyzer - Sv RF 50 arker 1 37.656579; 0 dEJ/div Ref 20.00	Ω DC 3750000 GHz PNO: Fast ( IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	37.656 8 GHz	Peak Search Next Pe
Agilent Spectrum Analyzer - Sv	Ω DC 3750000 GHz PNO: Fast ( IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	37.656 8 GHz	Peak Search Next Pe
Agilent Spectrum Analyzer - Sv	Ω DC 3750000 GHz PNO: Fast ( IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	37.656 8 GHz	Peak Search Next Pe Next Pk Rig
Agilent Spectrum Analyzer - Sv RF   50 arker 1 37.656579: 0 dB/div Ref 20.00 9 0.0	Ω DC 3750000 GHz PNO: Fast ( IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	37.656 8 GHz	Peak Search Next Pe Next Pk Rig
Agilent Spectrum Analyzer - Sv RF 50 arker 1 37.656793 0 dB/div Ref 20.00 9 0.0 0.0 0.0	Ω DC 3750000 GHz PNO: Fast ( IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	37.656 8 GHz	Peak Search Next Pe Next Pk Rig
Agilent Spectrum Analyzer - Sv RF 50 arker 1 37.6565793 0 dB/div Ref 20.00 9 0.0 0.0 0.0	Ω DC 3750000 GHz PNO: Fast ( IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	37.656 8 GHz -38.719 dBm	Peak Search Next Pe Next Pk Rig Next Pk L
Agilent Spectrum Analyzer - Sv	Ω DC 3750000 GHz PNO: Fast ( IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	-27 00 dBm	Peak Search Next Pe Next Pk Rig Next Pk L
Agilent Spectrum Analyzer - Sv RF 50 arker 1 37.6565793 dB/div Ref 20.000 0 0 0 0 0 0 0 0 0 0 0 0	Ω DC 3750000 GHz PNO: Fast ( IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	-27 00 dBm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De
Agilent Spectrum Analyzer - Sv RF 50 arker 1 37.6565793 0 dB/div Ref 20.00 9 0.0 0.0 0.0 0.0 0.0 0.0	Ω DC 3750000 GHz PNO: Fast ( IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hoid:>100/100 Mkr1	-27.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De
Agilent Spectrum Analyzer - Sv RF 50 larker 1 37.656793 0 dB/div Ref 20.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ω DC BHZ 3750000 GHZ P/0: Fast (FGain:Low D dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	-27.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De
Agilent Spectrum Analyzer - Sv RF   50 arker 1 37.6566793 dEJ/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0	Ω DC BHZ 3750000 GHZ P/0: Fast (FGain:Low D dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hoid:>100/100 Mkr1	-27.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→f
Agilent Spectrum Analyzer - Sv RF   50 arker 1 37.6566793	Ω DC BHZ 3750000 GHZ P/0: Fast (FGain:Low D dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hoid:>100/100 Mkr1	-27.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→f
Agilent Spectrum Analyzer - Sv RF   50 arker 1 37.656793 0 dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ω DC BHZ 3750000 GHZ P/0: Fast (FGain:Low D dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hoid:>100/100 Mkr1	-27.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→f
Agilent Spectrum Analyzer - Sv RF   50 arker 1 37.6565793 dB/div Ref 20.00 9 0.0 0.0 0.0 0.0 0.0 0.0 0	Ω DC BHZ 3750000 GHZ P/0: Fast (FGain:Low D dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hoid:>100/100 Mkr1	-27.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→Ref I
Agilent Spectrum Analyzer - Sv       RF     [50]       arker 1 37.656679:       0.0	Ω DC   3750000 GHz PNO: Fast   PO: Fast Figure 1   P Bm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	-27.00 dBm	Peak Search

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### TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5230MHz

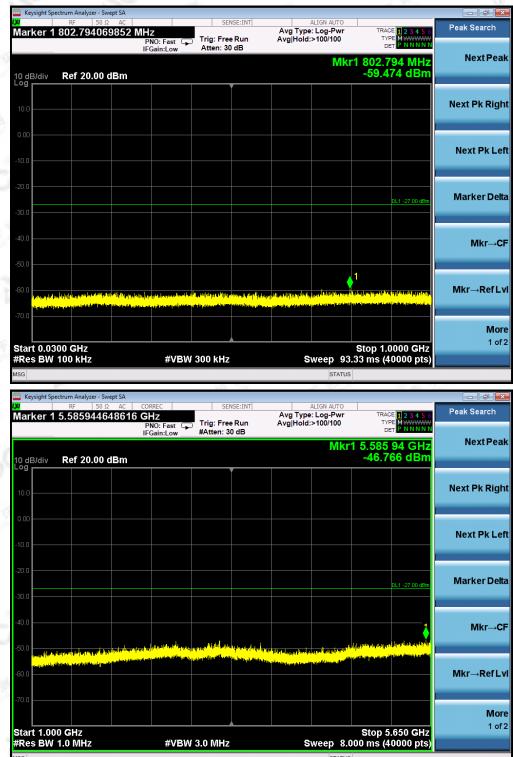
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Keysight Spectrum Analyzer - Sv	wept SA				
RF 50 G	AC CORREC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast C IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:>100/100		
			Mkr1	5.207 972 GHz -26.929 dBm	Auto Tu
og Ref 20.00	dBm	The second secon		-20.929 UBIII	
0.00					Center Fr 5.250000000 G
10.0					3.230000000 8
20.0	¢ ¹	Q2		DL1 -27.00 dBm	Start Fr
40.0					5.150000000 G
0.0 In the only of the strange of th					
0.0					Stop Fr 5.350000000 G
0.0					
tart 5.1500 GHz Res BW 1.0 MHz	-#\/B\	N 3.0 MHz	Curson 36	Stop 5.3500 GHz	CF St 20.000000 M
KES DW T.O WIHZ	#VB		Sweep 2.0	67 ms (40000 pts)	Auto M
1 N 1 f 2 N 1 f	5.207 972 GHz 5.251 857 GHz	-26.929 dBm -27.334 dBm			
3					Freq Offs 0
5				E	
7					Scale Ty
9 0					Log
9		III	STATUS		Log
		Ш	STATUS	~	Log <u>I</u>
9 0 1 G		" SENSE:INT	STATUS ALIGN AUTO		
9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 DC 3750000 GHz PNO: Fast C	SENSE:INT		TRACE 123456 TYPE MUNICIPAL	
9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 DC 750000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100		Peak Search
9 0 1 1 3 3 4gilent Spectrum Analyzer - Sw RF 500 arker 1 38.672038	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 12 3 4 5 6 TYPE M DET P NNNN 1 38.672 0 GHz -37.753 dBm	Peak Search
9 0 1 1 3 3 4gilent Spectrum Analyzer - Sw RF 500 arker 1 38.672038	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	1 38.672 0 GHz	Peak Search Next Pe
9 0 1 Agilent Spectrum Analyzer - Sw RF 50 0 arker 1 38.672038 0 dB/div Ref 20.00 09	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	1 38.672 0 GHz	Peak Search Next Pe
9 9 0 1 1 Agilent Spectrum Analyzer - Sw 8 8 8 1 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	1 38.672 0 GHz	Peak Search Next Pe
9 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	1 38.672 0 GHz	Peak Search Next Pe Next Pk Rig
9 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	1 38.672 0 GHz	Peak Search Next Pe Next Pk Rig
9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	38.672 0 GHz -37.753 dBm	Peak Search Next Pe Next Pk Rig Next Pk L
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	1 38.672 0 GHz	Peak Search Next Pe Next Pk Rig Next Pk L
9 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	TYPE P NNNNN 1 38.672 0 GHz -37.753 dBm -27.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk L
9 9 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr*1	TYPE P NNNNN 38.672 0 GHz -37.753 dBm -27.00 dbm -27.00 dbm -27.00 dbm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De
9 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	TYPE P NNNNN 38.672 0 GHz -37.753 dBm -27.00 dbm -27.00 dbm -27.00 dbm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De
9 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr*1	TYPE P NNNNN 38.672 0 GHz -37.753 dBm -27.00 dbm -27.00 dbm -27.00 dbm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De
9 0 1 G Agilent Spectrum Analyzer - Sw RF   50 4 arker 1 38.672038	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr*1	TYPE P NNNNN 38.672 0 GHz -37.753 dBm -27.00 dbm -27.00 dbm -27.00 dbm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De
9 9 0 1 2 3 3 4 3 4 3 4 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr*1	TYPE P NNNNN 38.672 0 GHz -37.753 dBm -27.00 dbm -27.00 dbm -27.00 dbm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→Ref I
9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 DC <b>750000 GHz</b> PNO: Fast C IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr*1	Type     NNNNN       38.672     0       -37.753     dBm       -27.00     dBm       -27.00     dBm       reg(V)     -27.00       dBm     -27.00	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr-A
9 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	dBm dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr Avg Hold:>100/100	TYPE P NNNNN 38.672 0 GHz -37.753 dBm -27.00 dbm -27.00 dbm -27.00 dbm	

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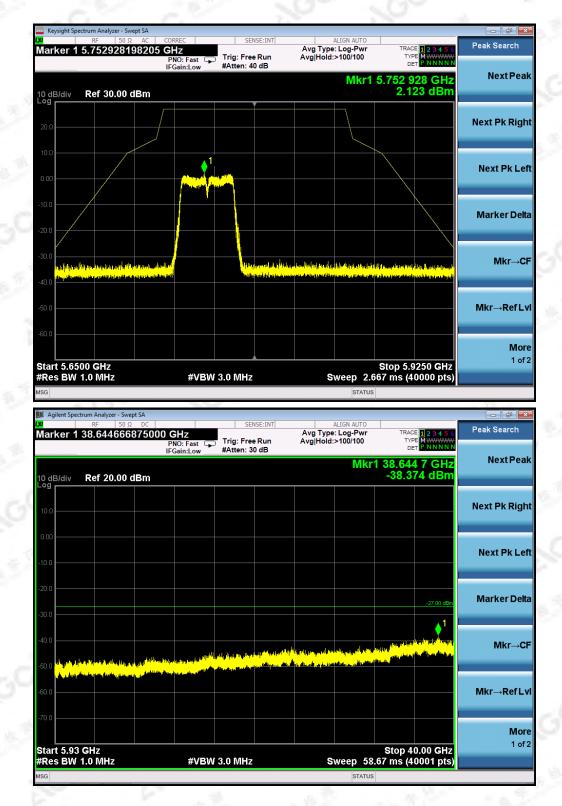


### TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5755MHz

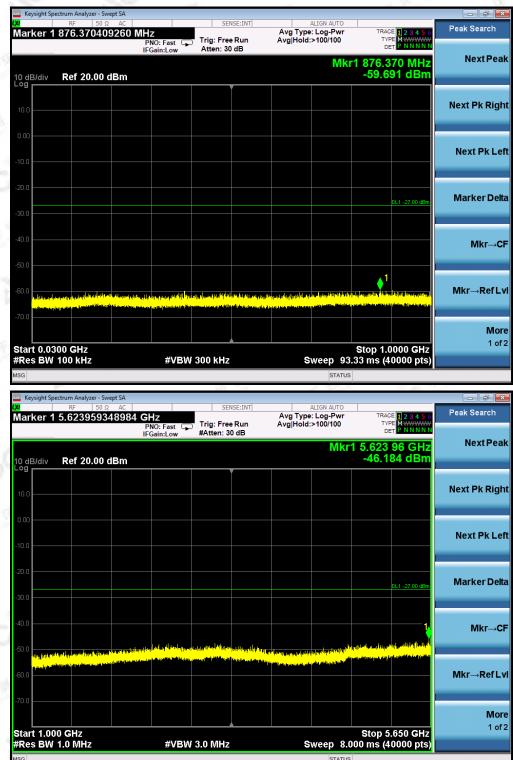
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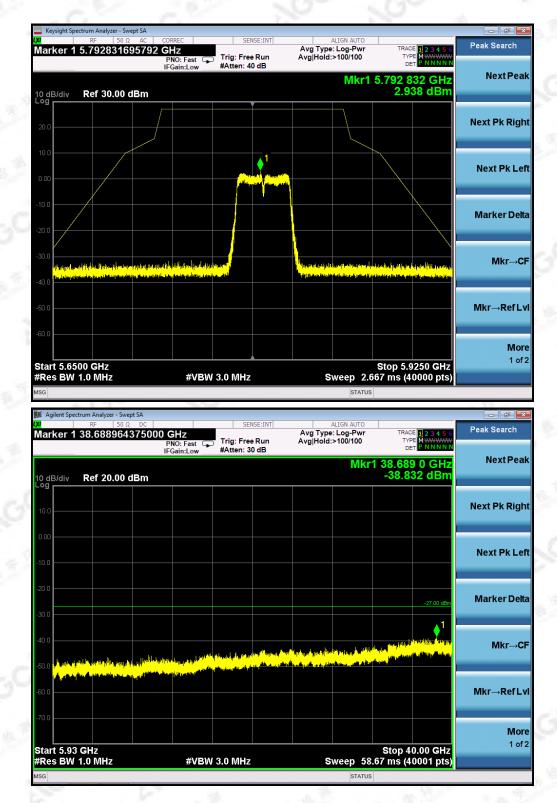
### TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5795M

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### FOR 802.11AC80 MODULATION

#### TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5210MHz

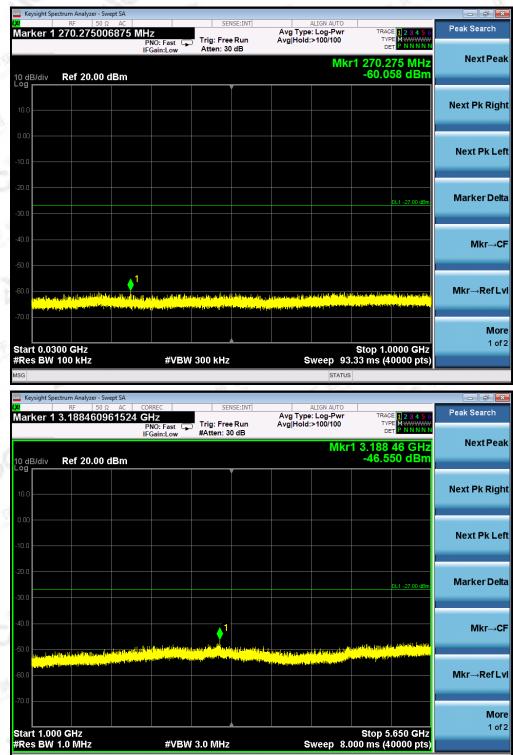
Peak Search Avg Type: Log-Pwi Avg|Hold:>100/100 1 865.530388260 MHz PNO: Fast IFGain:Low 2345 Marke Trig: Free Run Atten: 30 dB NNN Next Peal Mkr1 865.530 MHz -59.695 dBm 10 dB/div Ref 20.00 dBm Next Pk Right Next Pk Left Marker Delt Mkr→CF 1 Mkr→RefLvl More 1 of 2 Start 0.0300 GHz #Res BW 100 kHz Stop 1.0000 GHz Sweep 93.33 ms (40000 pts) #VBW 300 kHz STATUS ight Spectrum Analyzer - Swept SA Marker 1 5.125306882672 GHz **Peak Search** Avg Type: Log-Pwi Avg|Hold:>100/100 Trig: Free Run Atten: 30 dB PNO: Fast 😱 IFGain:Low Next Peak Mkr1 5.125 31 GHz -45.519 dBm Ref 20.00 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLv More 1 of 2 Start 1.000 GHz #Res BW 1.0 MHz Stop 5.150 GHz Sweep 8.000 ms (40000 pts) #VBW 3.0 MHz

Report No.: AGC01600180201FE06 Page 68 of 99



Keysight Spectrum Analyzer - S RF 50	Ω AC CORREC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr		Marker
arker 1 5.1701510	DU3374 GHZ PNO: Fast IFGain:Low	➡ Trig: Free Run #Atten: 30 dB	Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	
	IFGail.LOW	# titelii oo dB	Mkr1 {	5.170 151 GHz	Select Marke
dB/div Ref 20.00	dBm			5.170 151 GHz -27.636 dBm	
.0					Norm
					NOTIN
		2			
.0		<b>⊨</b> `{		DL1 -27.00 dBm	Del
.0					
1.0					Fixed
.0					Тілес
art 5.1500 GHz				Stop 5.3500 GHz	
tes BW 1.0 MHz	#VB	W 3.0 MHz		67 ms (40000 pts)	c
R MODE TRC SCL	× 5.170 151 GHz	Y F -27.636 dBm	JNCTION FUNCTION WIDTH	FUNCTION VALUE	
2 N 1 f	5.250 087 GHz	-26.623 dBm			Properties
				E	Toperact
					<b>Mo</b> 1 of
				~	
				- F	
3		m	STATUS	4	
Agilent Spectrum Analyzer - Sw		m		•	
	Ω DC 6250000 GHz	m SENSE:INT	ALIGN AUTO	TRACE 1 2 3 4 5 6	Peak Search
Agilent Spectrum Analyzer - Sw RF 50 :	Ω DC		ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 123456 TYPE MWWWWW DET P NNNNN	
Agilent Spectrum Analyzer - Sw RF 50 arker 1 36.882360	Ω DC 6250000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	36.882 4 GHz	Peak Search
Agilent Spectrum Analyzer - Sw RF 50 :	Ω DC 6250000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100		Peak Search
Agilent Spectrum Analyzer - Sw RF 50: arker 1 36.882366 dB/div Ref 20.00	Ω DC 6250000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	36.882 4 GHz	Peak Search Next Pea
Agilent Spectrum Analyzer - Sw RF 50 arker 1 36.882366 dB/div Ref 20.00	Ω DC 6250000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	36.882 4 GHz	Peak Search Next Pea
Agilent Spectrum Analyzer - Sw RF 50 arker 1 36.882366 dB/div Ref 20.00	Ω DC 6250000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	36.882 4 GHz	Peak Search Next Pea Next Pk Rig
Agilent Spectrum Analyzer - Sw RF 50 arker 1 36.882360 dB/div Ref 20.00	Ω DC 6250000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	36.882 4 GHz	Peak Search Next Pea Next Pk Rig
Agilent Spectrum Analyzer - Sw RF 50: arker 1 36.882360 dB/div Ref 20.00 9 0 0 0	Ω DC 6250000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	36.882 4 GHz	Peak Search Next Pea Next Pk Rig
Agilent Spectrum Analyzer - Sw RF 50 Irker 1 36.882360 dB/div Ref 20.00	Ω DC 6250000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	36.882 4 GHz	Peak Search Next Pea Next Pk Rig Next Pk Le
Agilent Spectrum Analyzer - Sw RF 50: arker 1 36.882360 dB/div Ref 20.00 9 0 0 0 0 0 0	Ω DC 6250000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	36.882 4 GHz -38.597 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le
Agilent Spectrum Analyzer - Sw RF 50 arker 1 36.882360 dB/div Ref 20.00 g	Ω DC 6250000 GHz PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	36.882 4 GHz -38.597 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De
Agilent Spectrum Analyzer - Sw RF 50: arker 1 36.882366 dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ω DC 6250000 GH2 PN0: Fast IFGain:Low dBm	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	36.882 4 GHz -38.597 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De
Agilent Spectrum Analyzer - Sw RF 50: arker 1 36.882366 dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ω DC 6250000 GH2 PN0: Fast IFGain:Low dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	36.882 4 GHz -38.597 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De
Agilent Spectrum Analyzer - Sw RF 50 arker 1 36.882360 dB/div Ref 20.00 g g u u u u u u u u u u u u u u u u u	Ω DC 6250000 GH2 PN0: Fast IFGain:Low dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	36.882 4 GHz -38.597 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C
Agilent Spectrum Analyzer - Sw RF 50 arker 1 36.882366 dB/div Ref 20.00 g g g g g g g g g g g g g g g g g g	Ω DC 6250000 GH2 PN0: Fast IFGain:Low dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	36.882 4 GHz -38.597 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C
Agilent Spectrum Analyzer - Sw RF 50: arker 1 36.882366 dB/div Ref 20.00 g g g g g g g g g g g g g g g g g g	Ω DC 6250000 GH2 PN0: Fast IFGain:Low dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	36.882 4 GHz -38.597 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→C
Agilent Spectrum Analyzer - Sw RF 50 arker 1 36.882366 dB/div Ref 20.00 g g g g g g g g g g g g g g g g g g	Ω DC 6250000 GH2 PN0: Fast IFGain:Low dBm	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	36.882 4 GHz -38.597 dBm	

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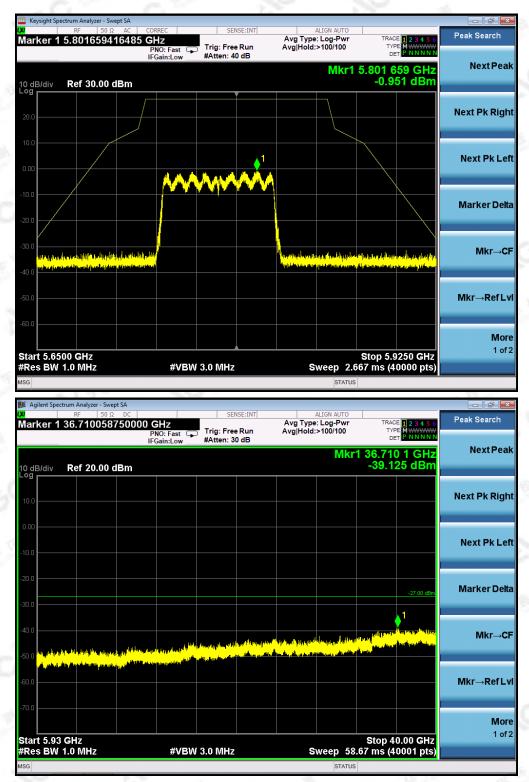


### TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5775MHz

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Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report. All the 80MHz bandwidth modulation had been tested, the 802.11ac80 was the worst case and record in his test report.

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### **12. RADIATED EMISSION**

#### 12.1. 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 3M VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

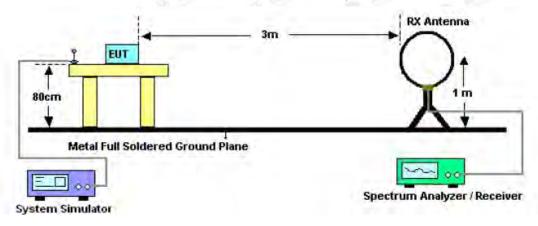


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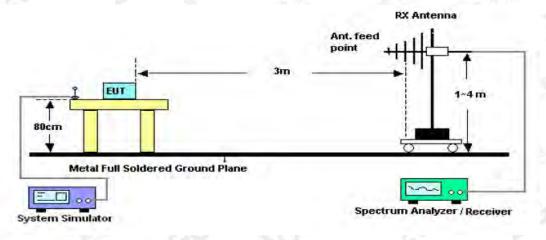
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### 12.2. TEST SETUP

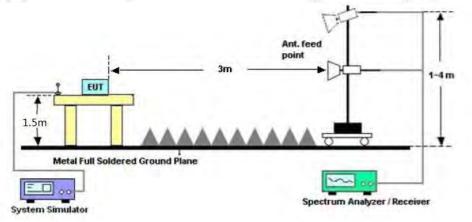
Radiated Emission Test-Setup Frequency Below 30MHz



### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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# **12.3. 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.

## 12.4. TEST RESULT

# **RADIATED EMISSION BELOW 30MHZ**

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

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal
[dB(µV/m 100 90	a)]		- 2.GV

# **RADIATED EMISSION BELOW 1GHZ**

	10								
	30	) 2	50	500 Frequency	750	0	1000 [MHz]		
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
91.595	Н	22.5	12.4	34.9	43.5	8.6	Pass	100.0	214.9
182.775	Н	20.8	14.3	35.1	43.5	8.4	Pass	150.0	214.6
532.460	Н	20.1	23.5	43.6	46.0	2.4	Pass	150.0	71.8
576.110	Н	12.9	24.5	37.4	46.0	8.6	Pass	150.0	286.8
738.100	Н	9.3	27.2	36.5	46.0	9.5	Pass	150.0	143.2
959.260	Н	6.4	30.7	37.1	46.0	8.9	Pass	100.0	286.2

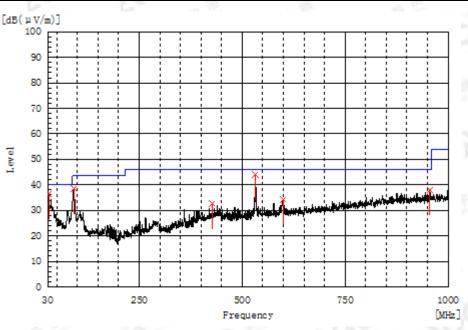
**RESULT: PASS** 

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
30.970	v	20.7	15.6	36.3	40.0	3.7	Pass	100.0	232.7
91.110	V	26.2	12.4	38.6	43.5	4.9	Pass	150.0	180.5
531.975	v	20.4	23.5	43.9	46.0	2.1	Pass	100.0	196.3
599.875	v	9.3	24.9	34.2	46.0	11.8	Pass	100.0	304.9
955.865	v	7.3	30.7	38.0	46.0	8.0	Pass	150.0	287.7
427.215	v	10.9	21.6	32.5	46.0	13.5	Pass	200.0	141.5

### **RESULT: PASS**

Note: All test channels had been tested. The 802.11a20 at 5180MHz is the worst case and recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

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

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# **RADIATED EMISSION ABOVE 1GHZ**

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

### RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
10360.120	42.45	9.14	51.59	74	-22.41	peak
10360.120	36.85	9.14	45.99	54	-8.01	AVG
15540.180	39.85	10.22	50.07	74	-23.93	peak
15540,180	33.68	10.22	43.9	54	-10.1	AVG

### **RADIATED EMISSION ABOVE 1GHZ-Vertical**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10360.120	40.52	9.14	49.66	74	-24.34	peak
10360.120	36.14	9.14	45.28	54	-8.72	AVG
15540.180	37.25	10.22	47.47	74	-26.53	peak
15540,180	32.84	10.22	43.06	54	-10.94	AVG

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

# **RADIATED EMISSION ABOVE 1GHZ-Horizontal**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
10480.120	40.38	9.27	49.65	74	-24.35	peak
10480.120	35.54	9.27	44.81	54	-9.19	AVG
15720.180	38.15	10.38	48.53	74	-25.47	peak
15720,180	34.08	10.38	44.46	54	-9.54	AVG

### **RADIATED EMISSION ABOVE 1GHZ-Vertical**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10480.120	39.58	9.27	48.85	74	-25.15	peak
10480.120	35.26	9.27	44.53	54	-9.47	AVG
15720.180	38.41	10.38	48.79	74	-25.21	peak
15720,180	34.19	10.38	44.57	54	-9.43	AVG

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal/Vertical

# RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
11490.120	39.78	9.42	49.2	74	-24.8	peak
11490.120	34.25	9.42	43.67	54	-10.33	AVG
17235.180	36.71	10.51	47.22	74	-26.78	peak
17235,180	31.26	10.51	41.77	54	-12.23	AVG

### RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
11490.120	38.95	9.42	48.37	74	-25.63	peak
11490.120	33.49	9.42	42.91	54	-11.09	AVG
17235.180	35.18	10.51	45.69	74	-28.31	peak
17235,180	31.85	10.51	42.36	54	-11.64	AVG

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5825MHz	Antenna	Horizontal/Vertical

# RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11650.120	40.78	9.62	50.4	74	-23.6	peak
11650.120	34.35	9.62	43.97	54	-10.03	AVG
17475.180	37.74	10.75	48.49	74	-25.51	peak
17475.180	32.25	10.75	43	54	-11	AVG
Remark:	- 24 C	0.				1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
actor = Ante	enna Factor + Ca	able Loss – I	Pre-amplifier.	1 C C	10. 10	2 18

# RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11650.120	39.77	9.62	49.39	74	-24.61	peak
11650.120	34.38	9.62	44	54	-10	AVG
17475.180	37.25	10.75	48	74	-26	peak
17475.180	32.64	10.75	43.39	54	-10.61	AVG
Remark:	N S		- 01	20	100	
-actor = Ante	enna Factor + Ca	ble Loss – I	Pre-amplifier.	Pre-		

**Note:** All the case had been tested. The 802.11a modulation is the worst case and recorded in the test report. Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

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

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## **13. BAND EDGE EMISSION**

### 13.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO

3. Other procedures refer to clause 11.2.

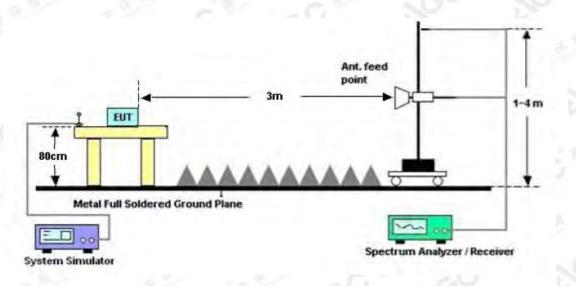
Note:

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

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

3. Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz record in the report. Other restricted band 5.35GHz-5.46GHz and 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.

13.2. TEST SET-UP



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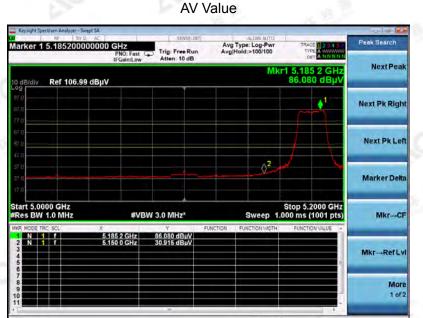
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## 13.3. TEST RESULT

EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



### PK Value



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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



### PK Value

AV Value



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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal



AV Value



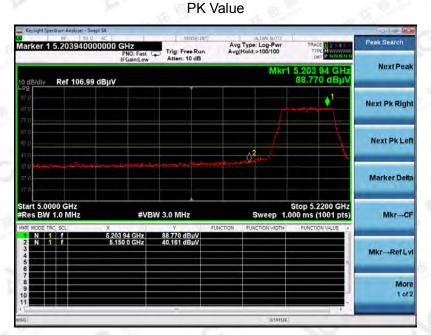
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# AGC[®]鑫宇环检测 Attestation of Global Compliance

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Vertical



AV Value



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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Horizontal



### PK Value

AV Value



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

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EUT	JMGO Smart Home Theater	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Vertical



AV Value



## **RESULT: PASS**

Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report.

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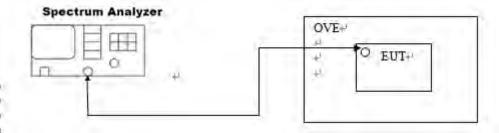
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## **14. FREQUENCY STABILITY**

### 14.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the operation frequency.
- 3. Set SPA Centre Frequency = Operation Frequency. SPAN=enough to measure the emission is maintained within the band
- 4. Set SPA Trace 1 Max hold, then View.
- 5. Extreme temperature rule is -10°C~60°C.

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



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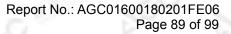


## **14.3. MEASUREMENT RESULTS**

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
1 . C	<b>- 10</b> ℃	5180	within the band	PASS
10.00	<b>0</b> °C	5180	within the band	PASS
	<b>10</b> ℃	5180	within the band	PASS
	<b>20</b> ℃	5180	within the band	PASS
1 A 1	<b>30</b> ℃	5180	within the band	PASS
The	<b>40</b> ℃	5180	within the band	PASS
1.1.1	<b>- 10</b> ℃	5240	within the band	PASS
- G 1	<b>0</b> °C	5240	within the band	PASS
10-14	<b>10</b> ℃	5240	within the band	PASS
10	<b>20</b> °C	5240	within the band	PASS
	<b>30</b> °C	5240	within the band	PASS
000 11 -	<b>40</b> ℃	5240	within the band	PASS
802.11a	<b>- 10</b> ℃	5745	within the band	PASS
	<b>0°C</b>	5745	within the band	PASS
	<b>10</b> ℃	5745	within the band	PASS
4 5	<b>20</b> °C	5745	within the band	PASS
	<b>30</b> °C	5745	within the band	PASS
G ²	<b>40</b> °C	5745	within the band	PASS
	<b>- 10</b> ℃	5825	within the band	PASS
1. 1.	<b>0</b> °C	5825	within the band	PASS
1 . · · ·	<b>10</b> ℃	5825	within the band	PASS
20	<b>20</b> °C	5825	within the band	PASS
60	<b>30</b> °C	5825	within the band	PASS
	<b>40</b> °C	5825	within the band	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
2000	<b>- 10</b> ℃	5180	within the band	PASS
19	<b>0</b> °C	5180	within the band	PASS
2.8	<b>10</b> ℃	5180	within the band	PASS
J	<b>20</b> °C	5180	within the band	PASS
- 14 C	<b>30</b> ℃	5180	within the band	PASS
The second	<b>40</b> ℃	5180	within the band	PASS
	<b>- 10</b> ℃	5240	within the band	PASS
- 0	<b>0</b> °C	5240	within the band	PASS
	<b>10</b> ℃	5240	within the band	PASS
F	<b>20</b> ℃	5240	within the band	PASS
1	<b>30</b> ℃	5240	within the band	PASS
802.11n20	<b>40</b> ℃	5240	within the band	PASS
002.111120	- 10℃	5745	within the band	PASS
	<b>0</b> °C	5745	within the band	PASS
	<b>10</b> ℃	5745	within the band	PASS
3 8	<b>20</b> ℃	5745	within the band	PASS
	<b>30</b> ℃	5745	within the band	PASS
C. 2	<b>40</b> ℃	5745	within the band	PASS
	<b>- 10</b> ℃	5825	within the band	PASS
	<b>0</b> °C	5825	within the band	PASS
6 B	<b>10</b> ℃	5825	within the band	PASS
10	<b>20</b> ℃	5825	within the band	PASS
0.5	<b>30</b> °C	5825	within the band	PASS
20	<b>40</b> °C	5825	within the band	PASS

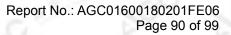
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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
	<b>- 10</b> ℃	5180	within the band	PASS
100	<b>0</b> °C	5180	within the band	PASS
2.8	<b>10</b> ℃	5180	within the band	PASS
1	<b>20</b> °C	5180	within the band	PASS
	<b>30</b> ℃	5180	within the band	PASS
16 10	<b>40</b> ℃	5180	within the band	PASS
1.1	<b>- 10</b> ℃	5240	within the band	PASS
-01	<b>0</b> °C	5240	within the band	PASS
	<b>10</b> ℃	5240	within the band	PASS
6	<b>20</b> °C	5240	within the band	PASS
5 M	<b>30</b> ℃	5240	within the band	PASS
802.11ac20	<b>40</b> ℃	5240	within the band	PASS
602.11ac20	- 10℃	5745	within the band	PASS
200	<b>0</b> °C	5745	within the band	PASS
	<b>10</b> ℃	5745	within the band	PASS
3 8	<b>20</b> °C	5745	within the band	PASS
	<b>30</b> °C	5745	within the band	PASS
C. 20	<b>40</b> ℃	5745	within the band	PASS
~	<b>- 10</b> ℃	5825	within the band	PASS
	<b>0</b> °C	5825	within the band	PASS
is the	<b>10</b> ℃	5825	within the band	PASS
10	<b>20</b> °C	5825	within the band	PASS
60	<b>30</b> °C	5825	within the band	PASS
20	<b>40</b> °C	5825	within the band	PASS

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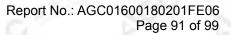


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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
	<b>- 10</b> ℃	5190	within the band	PASS
30	<b>0</b> °C	5190	within the band	PASS
28/	<b>10</b> ℃	5190	within the band	PASS
J	<b>20</b> °C	5190	within the band	PASS
1.1	<b>30</b> ℃	5190	within the band	PASS
5 · · · ·	<b>40</b> ℃	5190	within the band	PASS
	- 10℃	5230	within the band	PASS
-01	<b>0</b> °C	5230	within the band	PASS
	<b>10</b> ℃	5230	within the band	PASS
1 10 M	<b>20</b> ℃	5230	within the band	PASS
	<b>30</b> ℃	5230	within the band	PASS
802.11n40	<b>40</b> ℃	5230	within the band	PASS
002.111140	- 10℃	5755	within the band	PASS
	<b>0</b> °C	5755	within the band	PASS
	<b>10</b> ℃	5755	within the band	PASS
3 8	<b>20</b> ℃	5755	within the band	PASS
	<b>30</b> ℃	5755	within the band	PASS
C. 2	<b>40</b> ℃	5755	within the band	PASS
	- 10℃	5795	within the band	PASS
	<b>0</b> °C	5795	within the band	PASS
5 B	<b>10</b> ℃	5795	within the band	PASS
10	<b>20</b> ℃	5795	within the band	PASS
0.0	<b>30</b> ℃	5795	within the band	PASS
20	<b>40</b> °C	5795	within the band	PASS

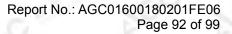
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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
2000	- <b>10</b> ℃	5190	within the band	PASS
The second	<b>0</b> °C	5190	within the band	PASS
28/	<b>10</b> ℃	5190	within the band	PASS
J	<b>20</b> °C	5190	within the band	PASS
10 M	<b>30</b> ℃	5190	within the band	PASS
5 ×	<b>40</b> ℃	5190	within the band	PASS
	- 10℃	5230	within the band	PASS
-01	<b>0</b> °C	5230	within the band	PASS
10 ⁻	<b>10</b> ℃	5230	within the band	PASS
F	<b>20</b> ℃	5230	within the band	PASS
5 2	<b>30</b> ℃	5230	within the band	PASS
000 11 10	<b>40</b> ℃	5230	within the band	PASS
802.11ac40	<b>- 10</b> ℃	5755	within the band	PASS
200	<b>0</b> °C	5755	within the band	PASS
	<b>10</b> ℃	5755	within the band	PASS
. 8.	<b>20</b> °C	5755	within the band	PASS
	<b>30</b> ℃	5755	within the band	PASS
0.2	<b>40</b> ℃	5755	within the band	PASS
2	<b>- 10</b> ℃	5795	within the band	PASS
1.1.1	<b>0</b> °C	5795	within the band	PASS
56 B	<b>10</b> ℃	5795	within the band	PASS
163	<b>20</b> ℃	5795	within the band	PASS
0.5	<b>30</b> ℃	5795	within the band	PASS
20	<b>40</b> ℃	5795	within the band	PASS

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Test Mode	Temperature	mperature Measurement Frequency (MHz)		Conclusion	
	- 10℃	5210	within the band	PASS	
17 FR	0°C	5210	within the band	PASS	
28	<b>10</b> ℃	5210	within the band	PASS	
1	<b>20</b> °C	5210	within the band	PASS	
	<b>30</b> ℃	5210	within the band	PASS	
902 11 2 2 0	<b>40</b> ℃	5210	within the band	PASS	
802.11ac80	- 10℃	5775	within the band	PASS	
-01	<b>0</b> °C	5775	within the band	PASS	
NO	<b>10</b> ℃	5775	within the band	PASS	
1 . 1 × 1	<b>20</b> ℃	5775	within the band	PASS	
	<b>30</b> ℃	5775	within the band	PASS	
12/ 1	<b>40</b> ℃	5775	within the band	PASS	

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# **15. FCC LINE CONDUCTED EMISSION TEST**

# **15.1. LIMITS OF LINE CONDUCTED EMISSION TEST**

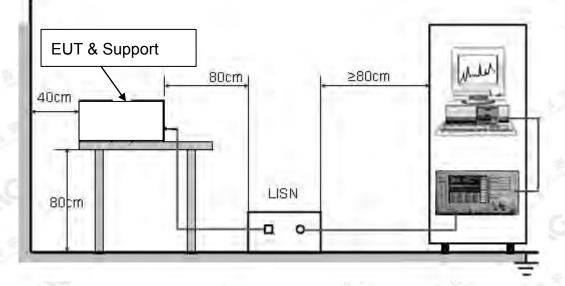
Fromosou	Maximum RF Line Voltage				
Frequency	Q.P.( dBuV)	Average( dBuV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

Note:

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

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

# 15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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### **15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST**

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

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

### 15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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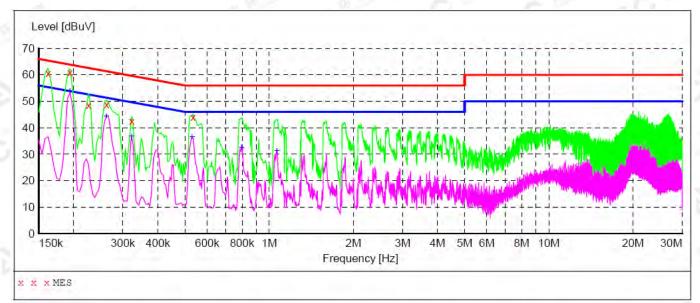




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### 15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST





### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector
MHz	dBuV	dB	dBuV	dB	
0.162000 0.194000 0.226000 0.262000 0.322000 0.534000	60.70 60.90 48.50 48.80 42.60 44.10	11.4 11.4 11.3 11.3 11.3 11.3	65 64 63 61 60 56	4.7 3.0 14.1 12.6 17.1 11.9	QP QP

### MEASUREMENT RESULT:

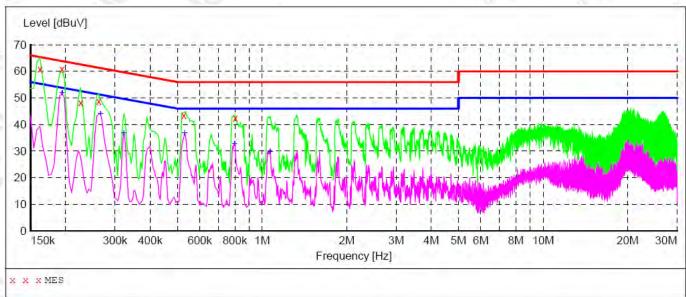
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector
0.194000	53.00	11.4	54	1.0	AV
0.262000	44.20	11.3	51	7.2	AV
0.322000	36.70	11.3	50	13.0	AV
0.530000	36.40	11.4	46	9.6	AV
0.798000	32.50	11.4	46	13.5	AV
1.066000	31.20	11.3	46	14.8	AV

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LINE CONDUCTED EMISSION TEST-N

## MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector
MHz	dBuV	dB	dBuV	dB	
0.162000 0.194000 0.226000 0.262000 0.526000 0.802000	60.80 60.90 48.30 48.90 43.60 42.60	11.4 11.4 11.3 11.3 11.4 11.4	65 64 63 56 56	4.6 3.0 14.3 12.5 12.4 13.4	<i></i> др

### MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector
MHz	dBuV	dB	dBuV	dB	
0.194000 0.266000 0.322000 0.530000 0.798000 1.070000	52.70 44.00 36.70 36.60 32.80 29.60	11.4 11.3 11.3 11.4 11.4 11.3	54 51 46 46 46		

### **RESULT: PASS**

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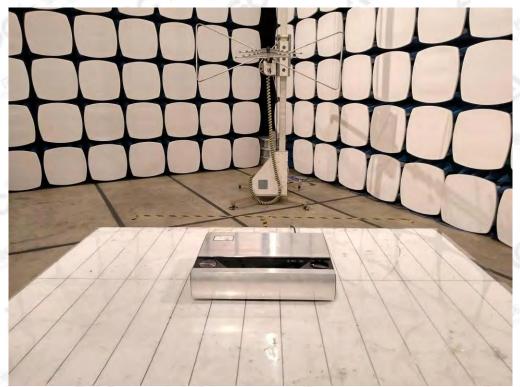


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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ

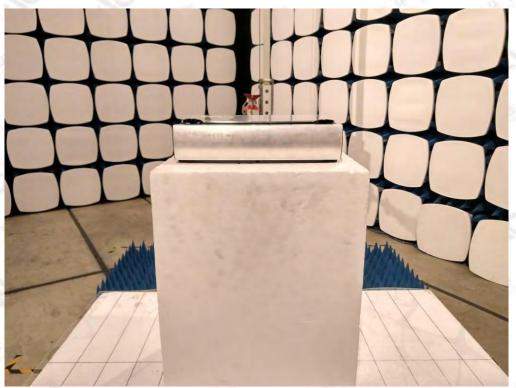


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FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ

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