FCC Test Report

Report No.: AGC05734170402FE06

FCC ID : SMCS1PRO

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: JmGO Smart Laser Television

BRAND NAME : N/A

MODEL NAME : S1 Pro

CLIENT: SHENZHEN HOLATEK CO., LTD

DATE OF ISSUE : June 12, 2017

STANDARD(S) TEST PROCEDURE(S)FCC Part 15.407

KDB 789033 D02

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	/	June 12, 2017	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

SHENZHEN HOLATEK CO., LTD
Rm.1001, Unit4, Bld.B, Kexing Science Park, Keyuan Road, Nashan District, Shenzhen
/IMAX(KUNSHAN)CO.,LTD
No.388, San Jia rd , Zhangpu Town, Kunshan City, Jiangsu, P.R.China
mGO Smart Laser Television
N/A
S1 Pro
lune 05, 2017 to June 09, 2017
None
Normal
Pass
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 requirement of FCC Part 15 Rules requirement.

Max Zhang(Zhang Yi) June 12, 2017

Reviewed by

Bart Xie(Xie Xiaobin)) June 12, 2017

Approved by

Solger Zhang(Zhang Hongyi)
Authorized Officer

June 12, 2017

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "client". 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

7 major teorinical description t	Attriajor teerimear description of Eet is described as following				
Operation Frequency	5150 GHz~5250GHz;5725 GHz~5825GHz				
Output Power	IEEE 802.11a20:13.74Bm IEEE 802.11n(40):13.07dBm; IEEE802.11n(20):10.44Bm EEE802.11ac(80):8.37Bm				
Modulation	BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM,OFDM				
Number of channels	15				
Hardware Version	VerE				
Software Version	N/A				
Antenna Designation	Fixed Antenna				
Number of transmit chain	2(802.11a/b/g used antenna 0, 802.11n/ac used two antennas)				
Antenna Gain	2dBi				
Power Supply	AC120V				

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	Frequency Band	Channel Number	Frequency
	36	5180 MHz	5725 GHz~ 5850GHz	149	5745 MHz
	38	5190 MHz		151	5755 MHz
	40	5200 MHz		153	5765 MHz
5150 GHz∼	42	5210 MHz		155	5775MHz
5250GHz	44	5220 MHz		157	5785 MHz
	46	5230 MHz		159	5795 MHz
	48	48 5240 MHz	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

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

This submittal(s) (test report) is intended for **FCC ID: SMCS1PRO** filing to comply with the FCC Part 15 requirements.

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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

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

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

4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate(Mbps)
802.11a/n20	36,40,44,48,149,153,157,161,165	36,48, 149, 165	OFDM	6/6.5
802.11n40	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.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:

EUT

5.2. EQUIPMENT USED IN EUT SYSTEM

It	em	Equipment	Model No.	ID or Specification	Remark
	1	JmGO Smart Laser Television	S1 PRO	SMCS1PRO	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§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

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6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.
Location	Building D, Baoding Technology Park, Guangming Road2, Dongcheng District, Dongguan, Guangdong, China.
FCC Registration No.	371540
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014.

ALL TEST EQUIPMENT LIST

Radiated Emission Test Site							
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration		
EMI Test Receiver Rohde & Schwarz		ESCI	101417	July 3, 2016	July 2, 2017		
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 3, 2016	July 2, 2017		
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 3, 2016	July 2, 2017		
RF Cable	SCHWARZBECK	AK9515E	96221	July 3, 2016	July 2, 2017		
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 2, 2017	June 1, 2018		
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A		
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 2, 2017	June 1, 2018		
Spectrum analyzer	Agilent	E4407B	MY46185649	June 2, 2017	June 1, 2018		
Power Sensor	Agilent	U2021XA	MY55050474	June 2, 2017	June 1, 2018		
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	June 2, 2017	June 1, 2018		
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 2, 2017	June 1, 2018		

Conducted Emission Test Site							
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration		
EMI Test Receiver	- Rohde & Schwarz	ESCI	101417	June 2, 2017	June 1, 2018		
Artificial Mains Network	Narda	L2-16B	000WX31025	June 2, 2017	June 1, 2018		
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	June 2, 2017	June 1, 2018		
RF Cable	SCHWARZBECK	AK9515E	96222	June 2, 2017	June 1, 2018		
Shielded Room	CHENGYU	843	PTS-002	June 2, 2017	June 1, 2018		

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

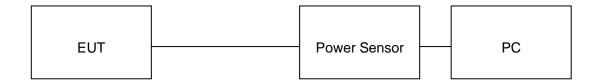
For average power test:

- 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



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7.3. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION				
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
5180	13.52	24	Pass	
5240	13.74	24	Pass	
5745	13.31	30	Pass	
5825	13.27	30	Pass	

LIMITS AND MEASUREMENT RESULT FOR 802.11N20 MODULATION					
Frequency (MHz)	Average Power Chain 0(dBm)	Average Power Chain 1(dBm)	Average Power Total(dBm)	Applicable Limits (dBm)	Pass or Fail
5180	10.25	9.85	13.07	24	Pass
5240	10.13	9.72	12.94	24	Pass
5745	10.24	9.54	12.91	30	Pass
5825	10.08	9.33	12.73	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11N40 MODULATION					
FOR 802:TIN40 MODULATION Frequency Average Power Average Power Chain 0(dBm) Chain 1(dBm) Average Power Applicable Limits (dBm) Pass or Fail					
5190	7.52	7.33	10.44	24	Pass
5230	7.36	7.04	10.21	24	Pass
5755	7.15	6.82	10.00	30	Pass
5795	6.89	6.37	9.65	30	Pass

LIMITS AND MEASUREMENT RESULT					
		FOR 802.11AC8	0 MODULATION		
Frequency (MHz)	Average Power Chain 0(dBm)	Average Power Chain 1(dBm)	Average Power Total(dBm)	Applicable Limits (dBm)	Pass or Fail
5210	5.47	5.24	8.37	24	Pass
5775	5.36	5.08	8.23	30	Pass

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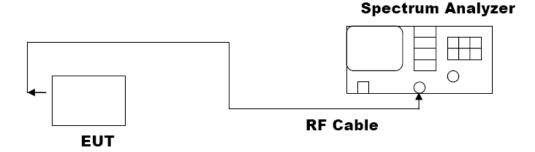
8. 6dB BANDWIDTH

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 ≥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)



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8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION			
Applicable Limits			
Applicable Limits	Test Da	Criteria	
>500KHZ	5745MHz	16.36	PASS
	5825MHz	16.36	PASS

LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION				
Appliachle Limite	Applicable Limits			
Applicable Limits	Test Data (MHz) Cr			
>500KHZ	5745MHz	17.61	PASS	
	5825MHz	17.61	PASS	
	5755MHz	36.37	PASS	
	5795MHz	36.32	PASS	

LIMITS AND MEASUREMENT RESULT FOR 802.11AC80 MODULATION				
Annlinghla Limita	Applicable Limits			
Applicable Limits Test Data (MHz)			Criteria	
>500KHZ	5775MHz	76.31	PASS	

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802.11a20 TEST RESULTTEST PLOT OF BANDWIDTH FOR 5745MHz



TEST PLOT OF BANDWIDTH FOR 5825MHz



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802.11n20 TEST RESULTTEST PLOT OF BANDWIDTH FOR 5745MHz



TEST PLOT OF BANDWIDTH FOR 5825MHz



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802.11n40 TEST RESULTTEST PLOT OF BANDWIDTH FOR 5755MHz

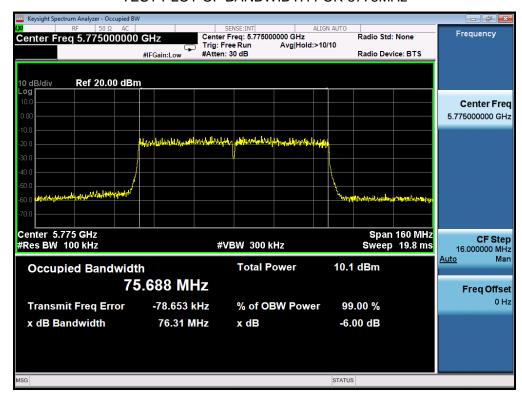


TEST PLOT OF BANDWIDTH FOR 5795MHz



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802.11ac80 TEST RESULTTEST PLOT OF BANDWIDTH FOR 5775MHz



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9. EMISSION BANDWIDTH

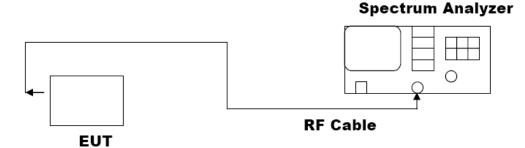
9.1. MEASUREMENT PROCEDURE

- a) Set RBW = approximately 1% of the emission bandwidth.
- 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%.

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)



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9.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION			
Applicable Limits			
Applicable Limits	Test Data (MHz)		Criteria
Within the Band	5180MHz	19.48	PASS
	5240MHz	19.46	PASS

LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION				
Amplicable Limite	Applicable Limits			
Applicable Limits	Test Da	Criteria		
Within the Band	5180MHz	19.84	PASS	
	5240MHz	19.88	PASS	
	5190MHz	39.84	PASS	
	5230MHz	39.85	PASS	

LIMITS AND MEASUREMENT RESULT FOR 802.11 AC80 MODULATION				
Amplicable Limite	Applicable Limits			
Applicable Limits	Test Da	ta (MHz)	Criteria	
Within the Band	5210MHz	79.39	PASS	

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802.11a20 TEST RESULTTEST PLOT OF BANDWIDTH FOR 5180MHz

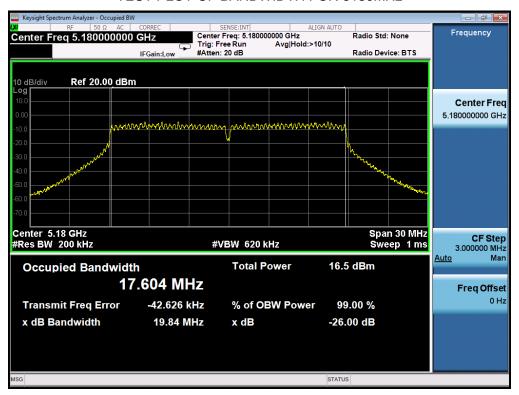


TEST PLOT OF BANDWIDTH FOR 5240MHz

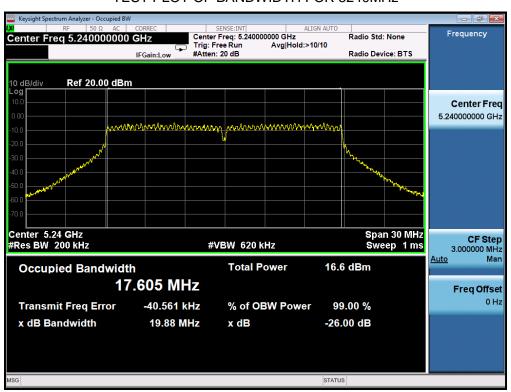


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802.11n20 TEST RESULTTEST PLOT OF BANDWIDTH FOR 5180MHz

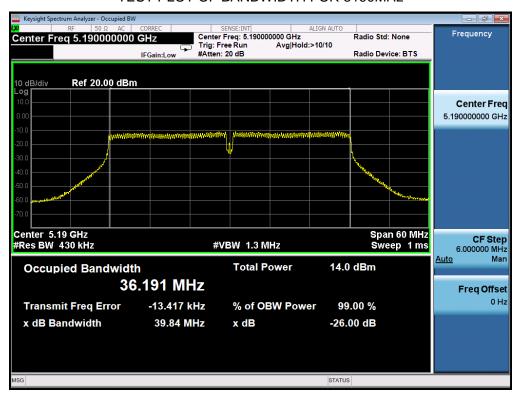


TEST PLOT OF BANDWIDTH FOR 5240MHz



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802.11n40 TEST RESULTTEST PLOT OF BANDWIDTH FOR 5190MHz

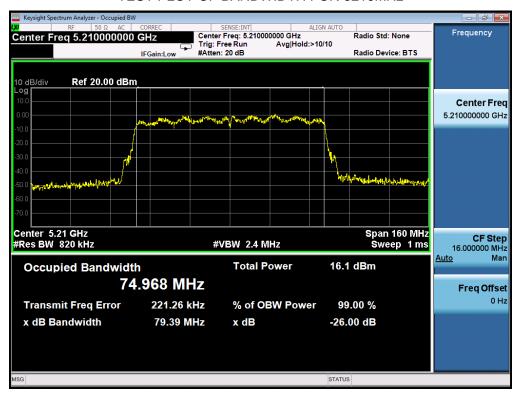


TEST PLOT OF BANDWIDTH FOR 5230MHz



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802.11ac80 TEST RESULTTEST PLOT OF BANDWIDTH FOR 5210MHz



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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 MEASUREMENT RESULT FOR 802.11A20 MODULATION					
Frequency (MHz)	Power density (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail		
5180	6.300	11	Pass		
5240	5.895	11	Pass		
Frequency (MHz)	Power density (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail		
5745	4.088	30	Pass		
5825	4.182	30	Pass		

	LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION					
Frequency (MHz)	Power density Chain 0 (dBm/MHz)	Power density Chain 1 (dBm/MHz)	Power density Total (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail	
5180	2.749	1.712	5.272	11	Pass	
5240	2.581	2.002	5.311	11	Pass	
5190	-2.679	-2.714	0.314	11	Pass	
5230	-2.194	-3.061	0.404	11	Pass	
Frequency (MHz)	Power density Chain 0 (dBm/500kHz)	Power density Chain 1 (dBm/500kHz)	Power density Total (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail	
5745	-1.311	-1.578	1.568	30	Pass	
5825	-1.633	-1.825	1.282	30	Pass	
5755	-5.115	-5.973	-2.513	30	Pass	
5795	-5.179	-6.149	-2.627	30	Pass	

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LIMITS AND MEASUREMENT RESULT FOR 802.11AC80 MODULATION					
Frequency (MHz)	Power density Chain 0 (dBm/MHz)	Power density Chain 1 (dBm/MHz)	Power density Total (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5210	-4.644	-5.044	-1.829	11	Pass
Frequency (MHz)	Power density Chain 0 (dBm/500kHz)	Power density Chain 1 (dBm/500kHz)	Power density Total (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5775	-6.901	-7.355	-4.112	30	Pass

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802.11a20 TEST RESULTTEST PLOT OF SPECTRAL DENSITY FOR 5180MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz

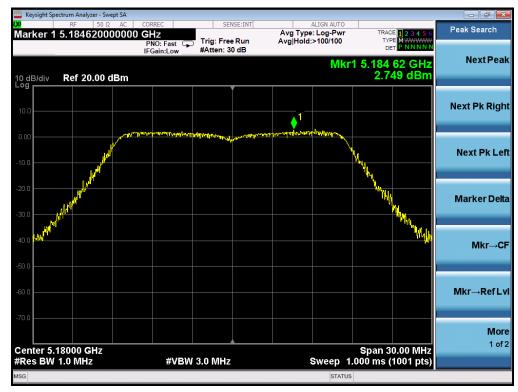


TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz



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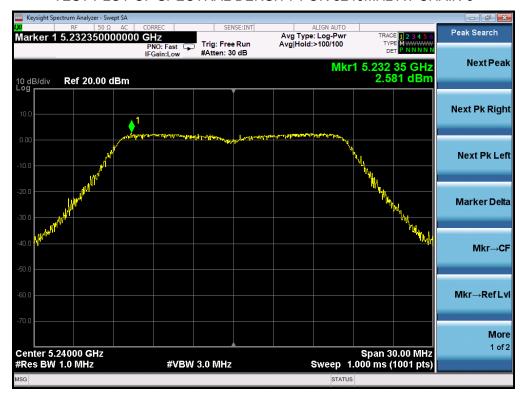
802.11n20 TEST RESULTTEST PLOT OF SPECTRAL DENSITY FOR 5180MHz AT CHAIN 0



TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz AT CHAIN 1



TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz AT CHAIN 0



TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz AT CHAIN 1



TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz AT CHAIN 0



TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz AT CHAIN 1

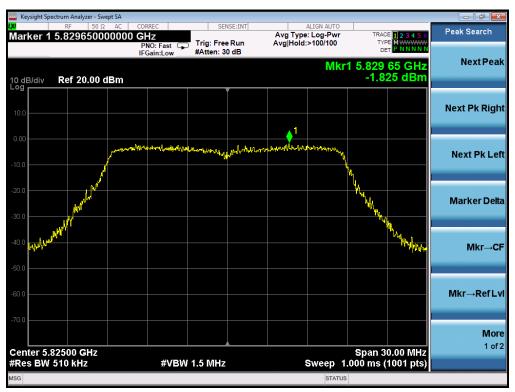


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TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz AT CHAIN 0



TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz AT CHAIN 1



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802.11n40 TEST RESULTTEST PLOT OF SPECTRAL DENSITY FOR 5190MHz AT CHAIN 0



TEST PLOT OF SPECTRAL DENSITY FOR 5190MHz AT CHAIN 1



TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz AT CHAIN 0



TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz AT CHAIN 1



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TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz AT CHAIN 0



TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz AT CHAIN 1



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TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz AT CHAIN 0



TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz AT CHAIN 1



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802.11ac80 TEST RESULT
TEST PLOT OF SPECTRAL DENSITY FOR 5210MHz AT CHAIN 0

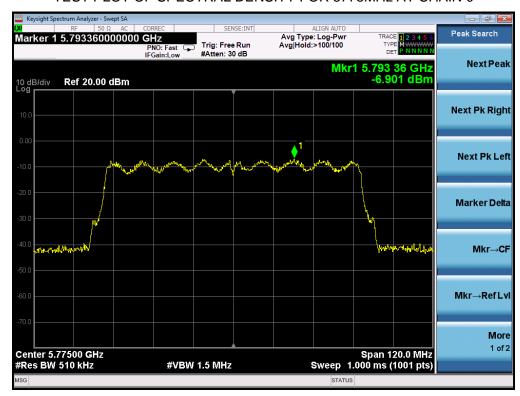


TEST PLOT OF SPECTRAL DENSITY FOR 5210MHz AT CHAIN 1

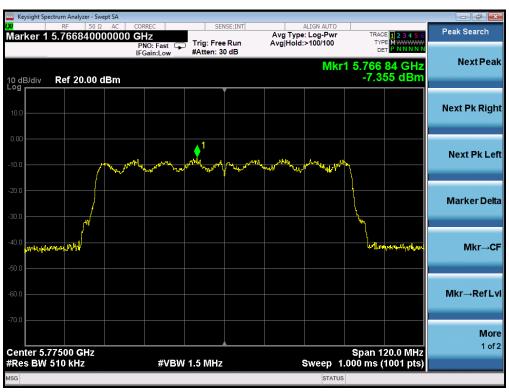


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TEST PLOT OF SPECTRAL DENSITY FOR 5775MHz AT CHAIN 0



TEST PLOT OF SPECTRAL DENSITY FOR 5775MHz AT CHAIN 1



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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

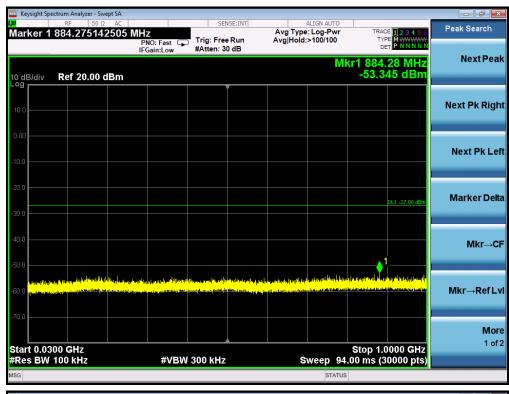
The same as described in section 6.

11.4. LIMITS AND MEASUREMENT RESULT

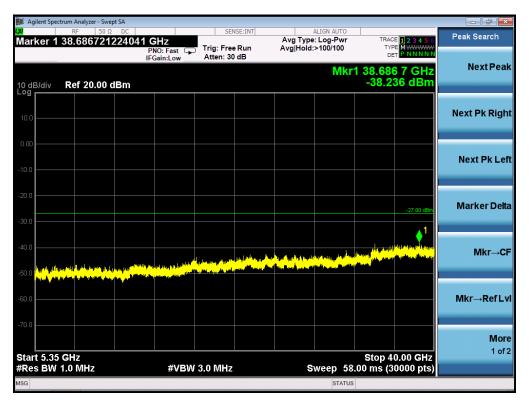
LIMITS AND MEASUREMENT RESULT							
Applicable Limite	Measurement Re	sult					
Applicable Limits	Test channel	Criteria					
27dBm	5150MHz-5250MHz	PASS					
17dBm within 5715-5725MHz and 5850-5860MHz 27dBm outside 5715-5860MHz	5725MHz-5825MHz	PASS					

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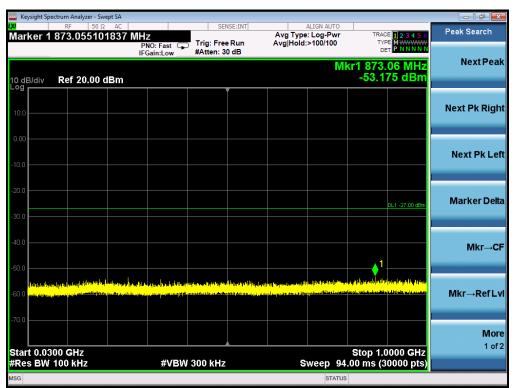
FOR 802.11A20 MODULATION TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5180MHz



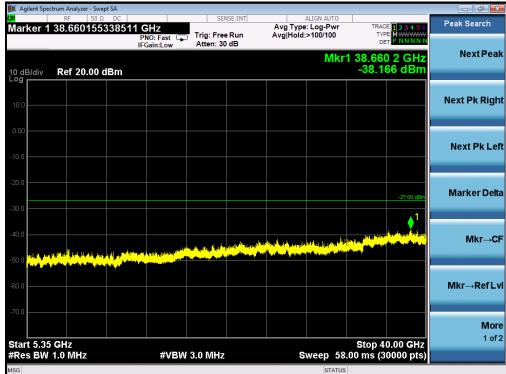




TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5240MHz

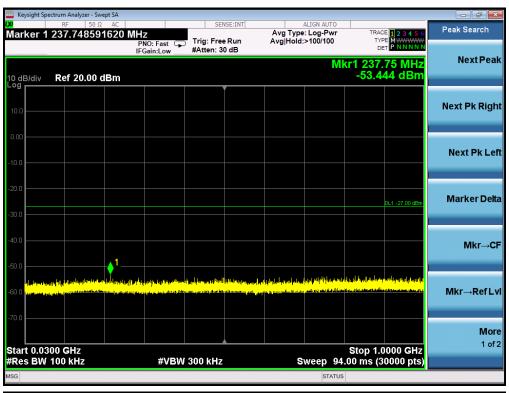




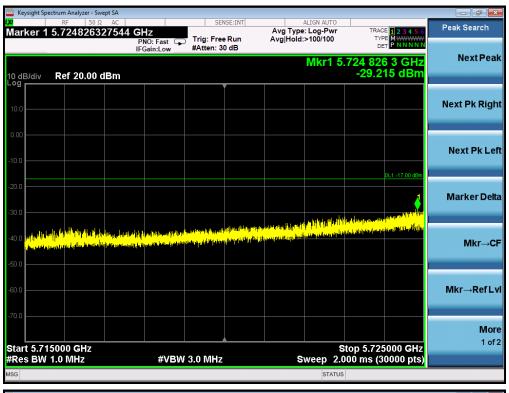


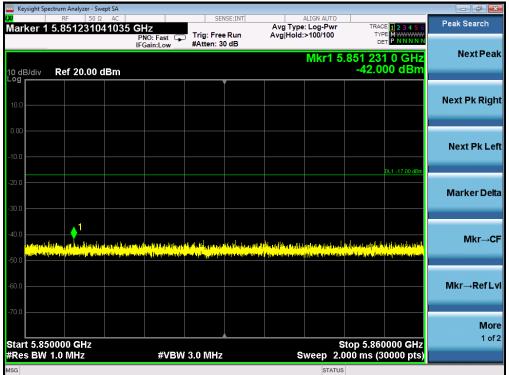
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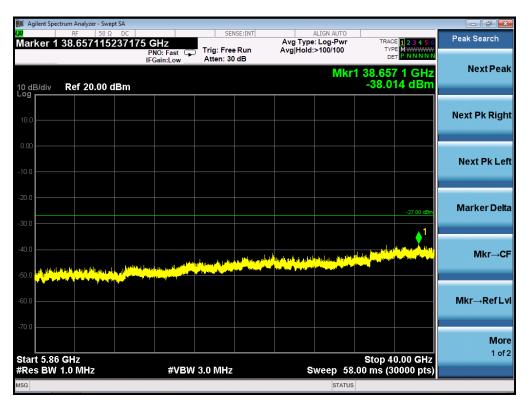
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5745MHz



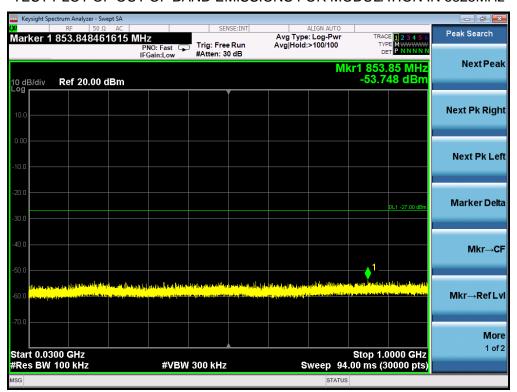


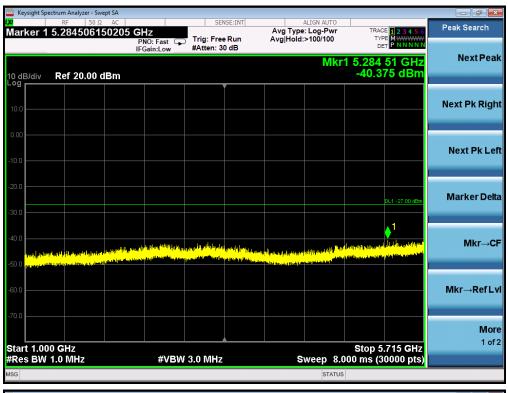


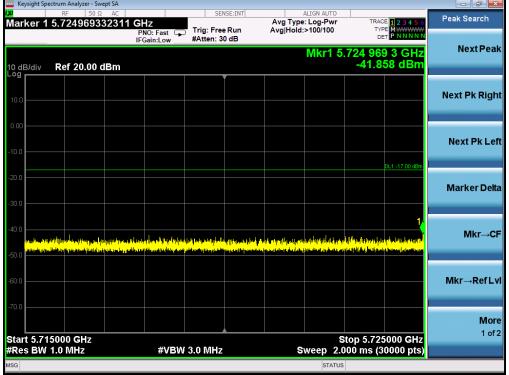


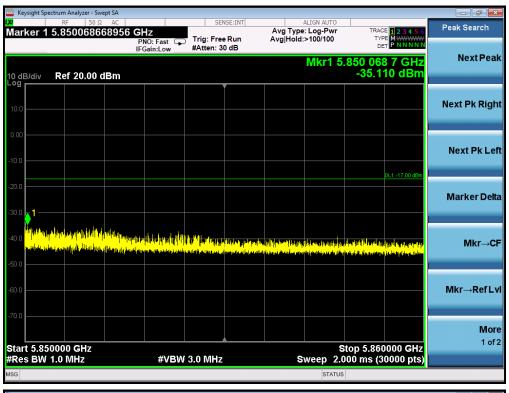


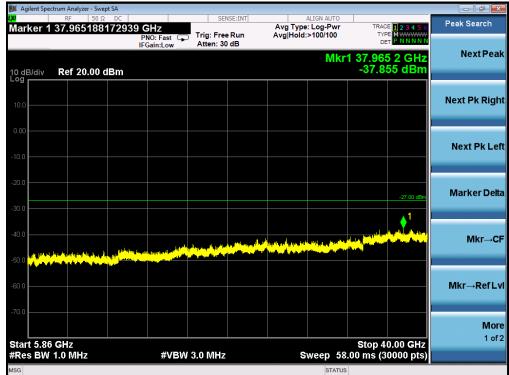
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5825MHz







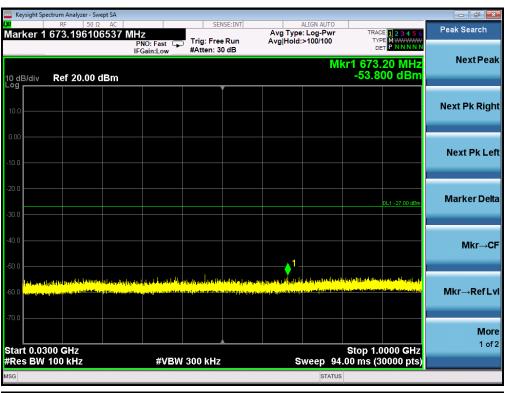


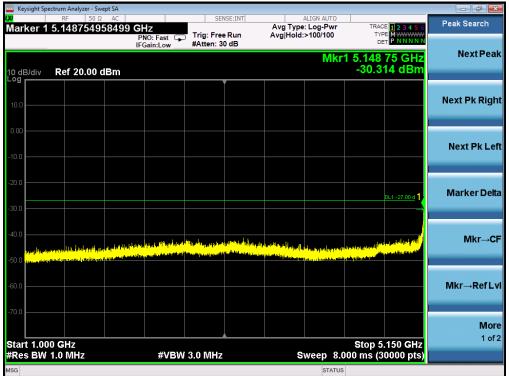


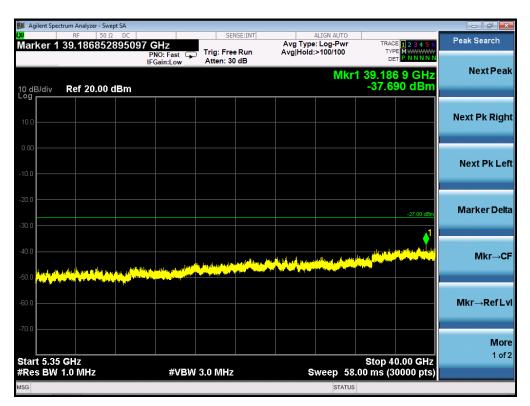
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FOR 802.11N40 MODULATION

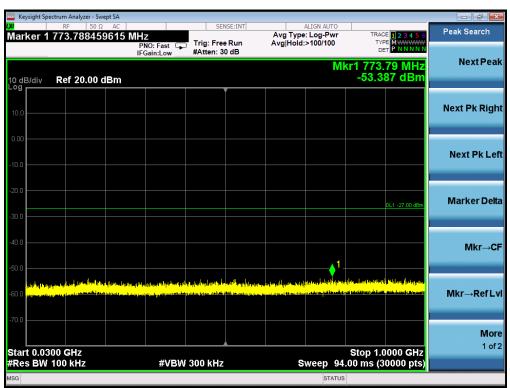
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5190MHz



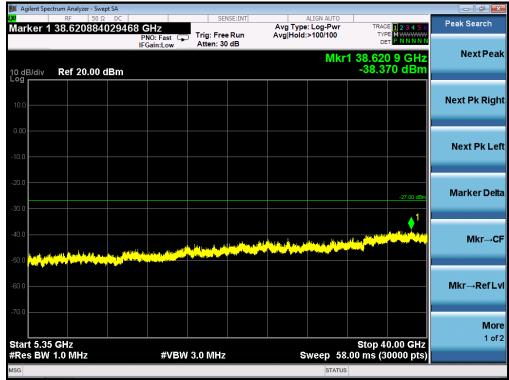




TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5230MHz

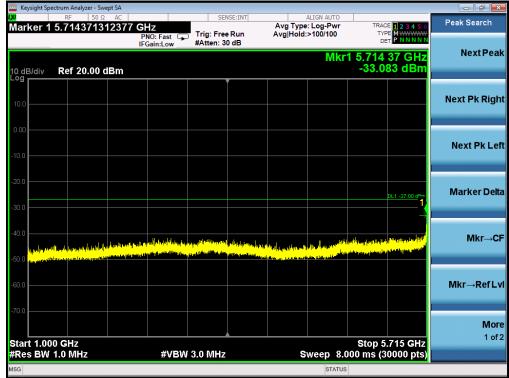




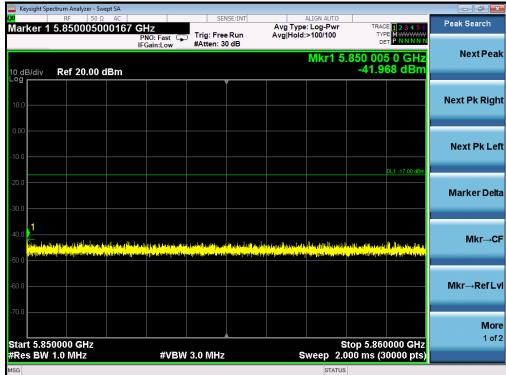


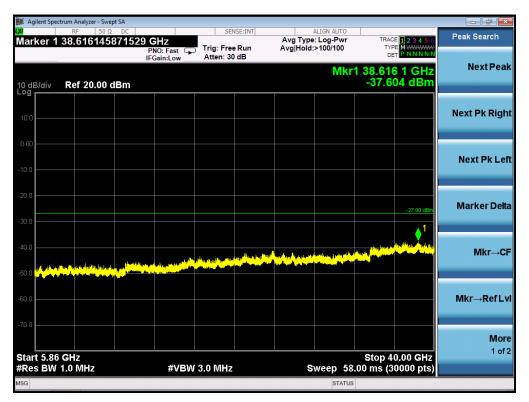
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5755MHz



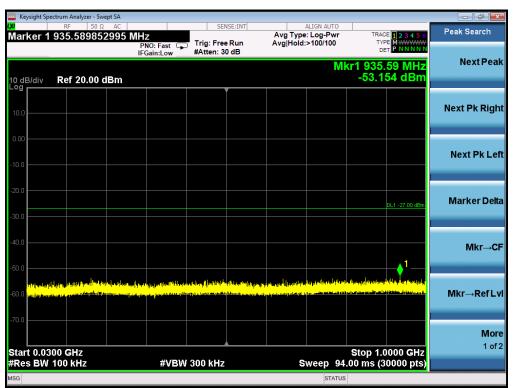




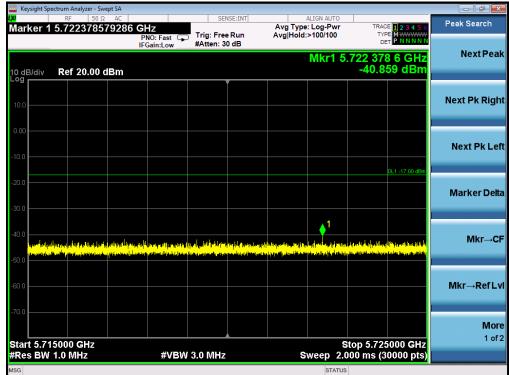


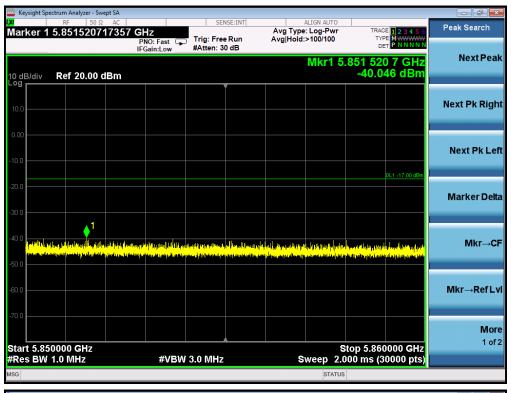


TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5795M







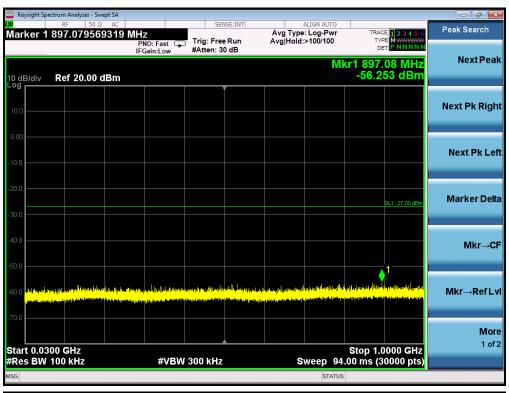


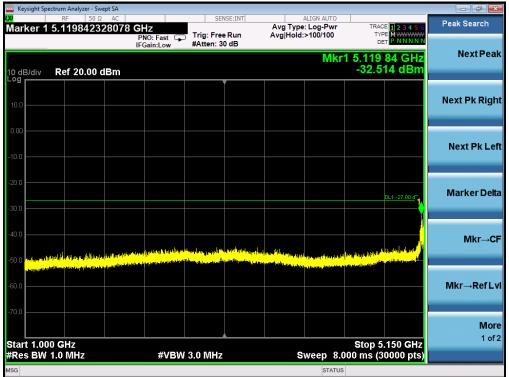


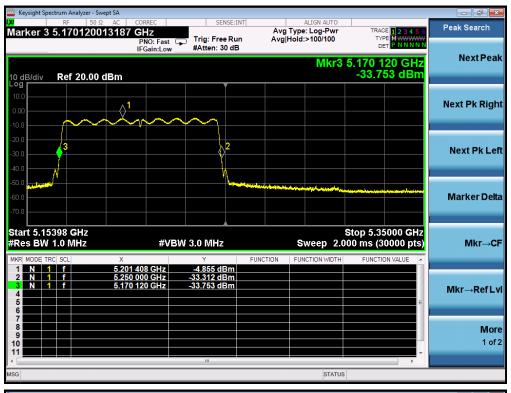
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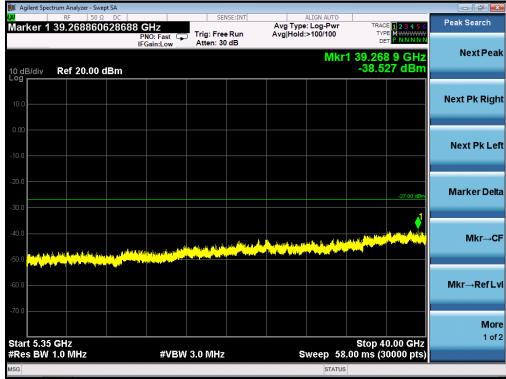
FOR 802.11AC80 MODULATION

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

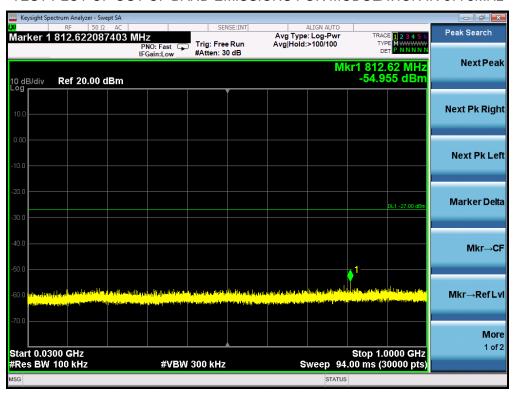


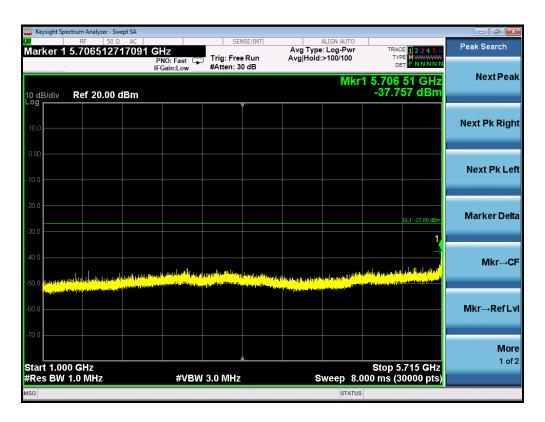


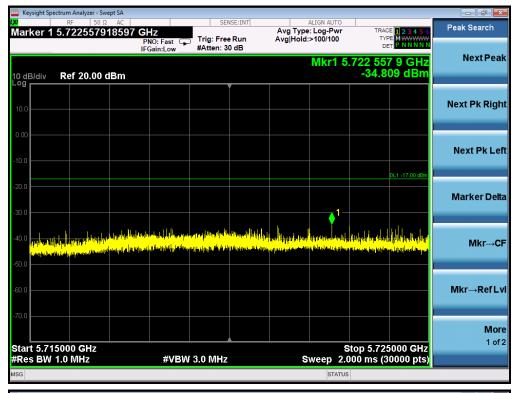


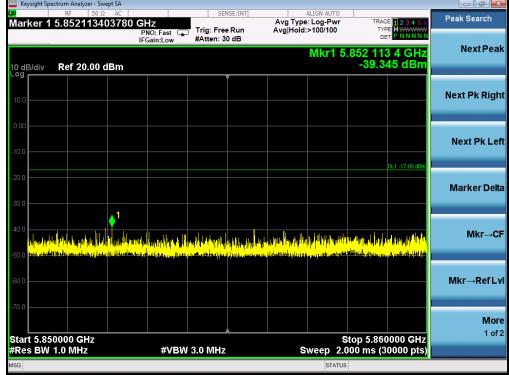


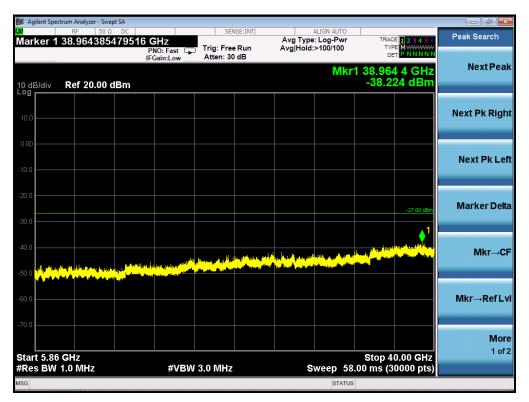
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5775MHz











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.

Two transmit chains had been tested, the chain 0 was the worst case and record in the test report. The spurious emission at chain 0 is more than 3dB below the limits, so the MIMO results for the spurious emissions are comply with the requirement.

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12. RADIATED EMISSION

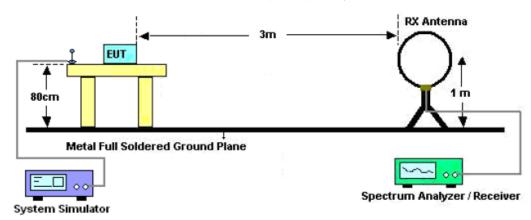
12.1. MEASUREMENT PROCEDURE

- 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.

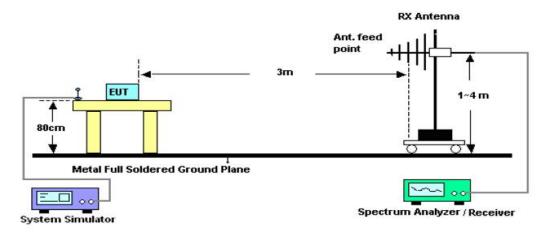
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12.2. TEST SETUP

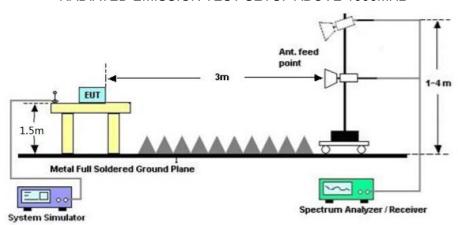
Radiated Emission Test-Setup Frequency Below 30MHz



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

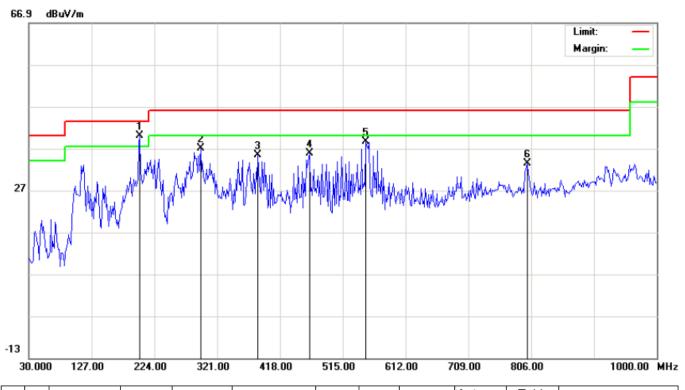
RADIATED EMISSION BELOW 30MHZ

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

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RADIATED EMISSION BELOW 1GHZ

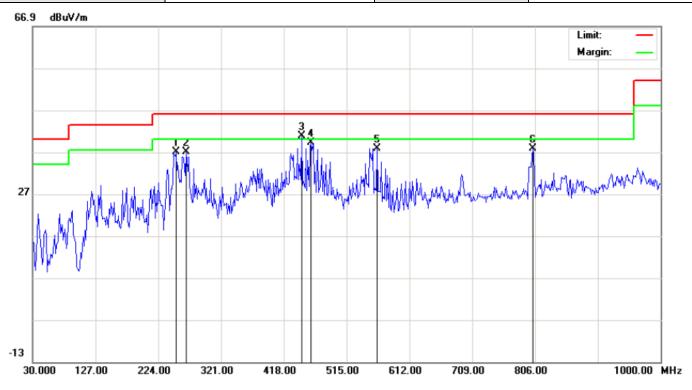
EUT	JmGO Smart Laser Television	Model Name	S1 PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	201.3667	28.17	11.86	40.03	43.50	-3.47	peak			
2		295.1333	22.36	14.58	36.94	46.00	-9.06	peak			
3		384.0500	16.43	18.96	35.39	46.00	-10.61	peak			
4		463.2667	15.04	20.73	35.77	46.00	-10.23	peak			
5		550.5667	16.06	22.49	38.55	46.00	-7.45	peak			
6		799.5333	6.02	27.31	33.33	46.00	-12.67	peak			

RESULT: PASS

EUT	JmGO Smart Laser Television	Model Name	S1 PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		251.4833	23.13	13.94	37.07	46.00	-8.93	peak			
2		267.6500	22.65	14.43	37.08	46.00	-8.92	peak			
3	*	445.4833	20.39	20.45	40.84	46.00	-5.16	peak			
4		460.0333	18.47	20.70	39.17	46.00	-6.83	peak			
5		561.8832	15.32	22.54	37.86	46.00	-8.14	peak			
6		802.7667	10.44	27.32	37.76	46.00	-8.24	peak			

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

EUT	JmGO Smart Laser Television	Model Name	S1 PRO
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	Value Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type			
10360.120	43.75	9.14	52.89	74	-21.11	peak			
10360.120	36.69	9.14	45.83	54	-8.17	AVG			
15540.180	41.42	10.22	51.64	74	-22.36	peak			
15540.180	35.35	10.22	45.57	54	-8.43	AVG			
Remark:									
Factor = Ante	-actor = Antenna Factor + Cable Loss – Pre-amplifier.								

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	42.58	9.14	51.72	74	-22.28	peak			
10360.120	35.94	9.14	45.08	54	-8.92	AVG			
15540.180	40.35	10.22	50.57	74	-23.43	peak			
15540.180	34.02	10.22	44.24	54	-9.76	AVG			
lemark:									
actor = Ante	enna Factor + Ca	able Loss – P	re-amplifier						

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EUT	JmGO Smart Laser Television	Model Name	S1 PRO
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	Value Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type			
10480.120	41.15	9.27	50.42	74	-23.58	peak			
10480.120	36.24	9.27	45.51	54	-8.49	AVG			
15720.180	39.61	10.38	49.99	74	-24.01	peak			
15720.180	34.42	10.38	44.8	54	-9.2	AVG			
Remark:									
Factor = Ante	-actor = Antenna Factor + Cable Loss – Pre-amplifier.								

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	40.52	9.27	49.79	74	-24.21	peak			
10480.120	35.15	9.27	44.42	54	-9.58	AVG			
15720.180	38.36	10.38	48.74	74	-25.26	peak			
15720.180	33.18	10.38	43.56	54	-10.44	AVG			
Remark:									
actor = Ante	enna Factor + Ca	able Loss – Pi	re-amplifier						

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EUT	JmGO Smart Laser Television	Model Name	S1 PRO
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	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
11490.120	41.98	9.42	51.4	74	-22.6	peak	
11490.120	35.12	9.42	44.54	54	-9.46	AVG	
17235.180	38.54	10.51	49.05	74	-24.95	peak	
17235.180 34.36 10.51 44.87 54 -9.13 AVG							
Remark:							
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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
11490.120	41.22	9.42	50.64	74	-23.36	peak
11490.120	35.04	9.42	44.46	54	-9.54	AVG
17235.180	38.15	10.51	48.66	74	-25.34	peak
17235.180 32.96 10.51 43.47 54 -10.53 AVG						
Remark:						
actor = Ante	factor = Antenna Factor + Cable Loss – Pre-amplifier.					

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EUT	JmGO Smart Laser Television	Model Name	S1 PRO
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	40.54	9.62	50.16	74	-23.84	peak
11650.120	35.33	9.62	44.95	54	-9.05	AVG
17475.180	37.64	10.75	48.39	74	-25.61	peak
17475.180 35.36 10.75 46.11 54 -7.89 AVG						AVG
Remark:						
Factor = Ante	-actor = Antenna Factor + Cable Loss – Pre-amplifier.					

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	39.74	9.62	49.36	74	-24.64	peak	
11650.120	34.86	9.62	44.48	54	-9.52	AVG	
17475.180	37.15	10.75	47.9	74	-26.1	peak	
17475.180 34.86 10.75 45.61 54 -8.39 AVG							
Remark:							
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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

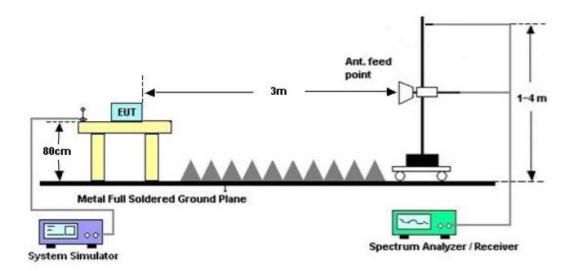
13.1. MEASUREMENT PROCEDURE

- 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=VBW=1MHz / 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(μ V) to represent the Amplitude. Use the F dB(μ 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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13.3. TEST RESULT

EUT	JmGO Smart Laser Television	Model Name	S1 PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

PK Value



AV Value



EUT	JmGO Smart Laser Television	Model Name	S1 PRO
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 Laser Television	Model Name	S1 PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal

PK Value



AV Value



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EUT	JmGO Smart Laser Television	Model Name	S1 PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Vertical

PK Value



AV Value



EUT	JmGO Smart Laser Television	Model Name	S1 PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Horizontal

PK Value



AV Value



EUT	JmGO Smart Laser Television	Model Name	S1 PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Vertical

PK Value



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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14. FCC LINE CONDUCTED EMISSION TEST

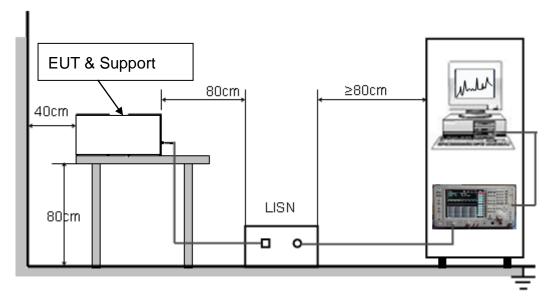
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Francis	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.

14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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14.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. 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.

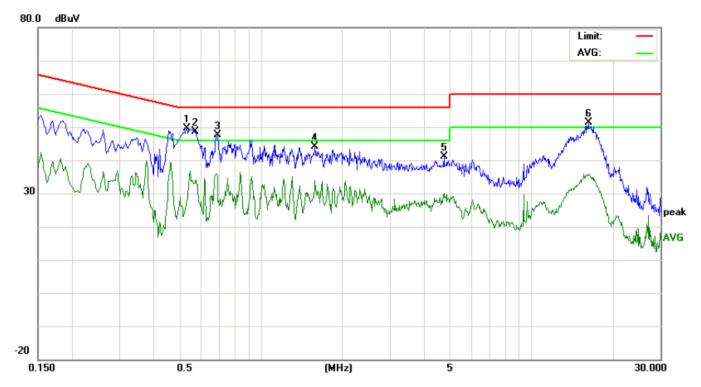
14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. 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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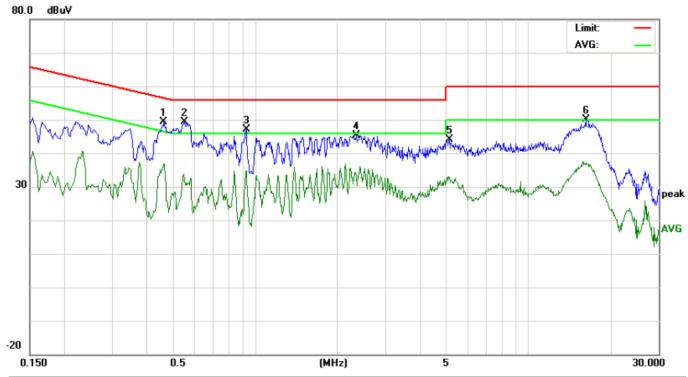
14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



113(0)	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.5340	41.93		27.60	10.37	52.30		37.97	56.00	46.00	-3.70	-8.03	Р	
2	0.5779	41.97		27.64	10.33	52.30		37.97	56.00	46.00	-3.70	-8.03	Р	
3	0.6899	37.27		24.69	10.35	47.62		35.04	56.00	46.00	-8.38	-10.96	Р	
4	1.5900	33.86		23.60	10.35	44.21		33.95	56.00	46.00	-11.79	-12.05	Р	
5	4.7579	30.92		19.92	10.23	41.15		30.15	56.00	46.00	-14.85	-15.85	Р	
6	16.2978	41.32		25.78	10.12	51.44		35.90	60.00	50.00	-8.56	-14.10	Р	

LINE CONDUCTED EMISSION TEST-N



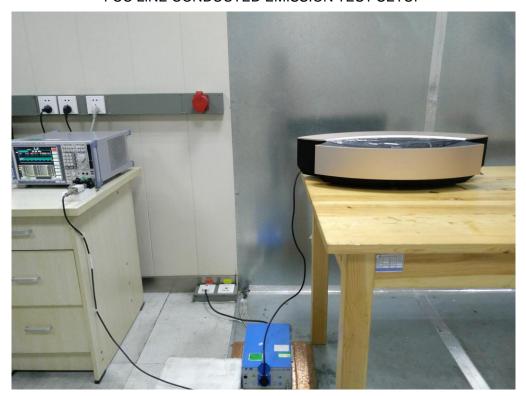
	Freq.	1	Reading_Level (dBuV)		Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.4660	38.98		26.62	10.38	49.36		37.00	56.58	46.58	-7.22	-9.58	Р	
2	0.5540	38.94		21.75	10.35	49.29		32.10	56.00	46.00	-6.71	-13.90	Р	
3	0.9300	36.64		24.36	10.40	47.04		34.76	56.00	46.00	-8.96	-11.24	Р	
4	2.3460	34.99		23.00	10.37	45.36		33.37	56.00	46.00	-10.64	-12.63	Р	
5	5.1459	33.89		22.63	10.24	44.13		32.87	60.00	50.00	-15.87	-17.13	Р	
6	16.2658	40.09		27.05	10.12	50.21		37.17	60.00	50.00	-9.79	-12.83	Р	

RESULT: PASS

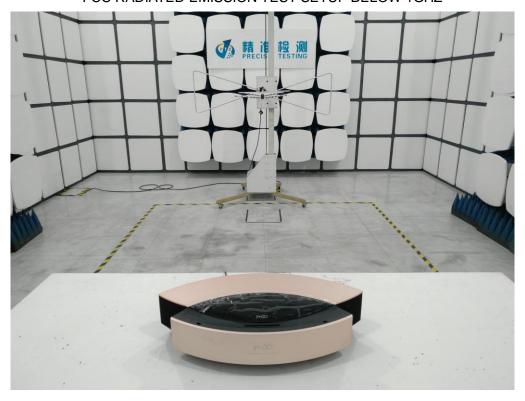
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

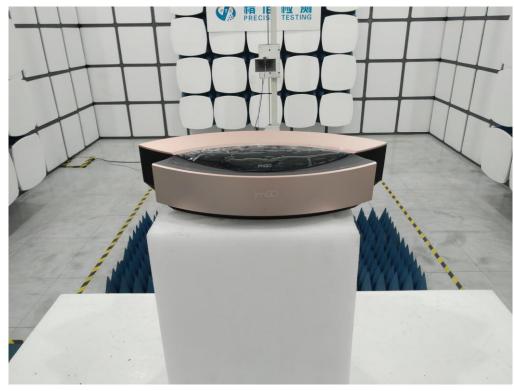
FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



----END OF REPORT----