

FCC Test Report

Report No.: AGC01110180556FE06

FCC ID : 2AOKB-Z6111

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION : Soundcore Model Zero+

BRAND NAME : Soundcore

MODEL NAME : Z6111

CLIENT : Anker Innovations Limited

DATE OF ISSUE : Jun. 11, 2018

STANDARD(S) FCC Part 15.407

TEST PROCEDURE(S) KDB 789033 D02 v02r01

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Attestation of Global Compliance

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jun. 11, 2018	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Anker Innovations Limited		
Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong		
Anker Innovations Limited		
Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong		
Soundcore Model Zero+		
Soundcore		
Z6111		
Mar. 11, 2018 to Mar. 30, 2018		
None		
Normal		
Pass & The state of the state o		
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.

Tested By	Max Zhang	
CC	Max Zhang(Zhang Yi)	Jun. 11, 2018
Reviewed By	Bore xie	
CG "-	Bart Xie(Xie Xiaobin)	Jun. 11, 2018
Approved By	Forest ce	
	Forrest Lei(Lei Yonggang) Authorized Officer	Jun. 11, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Soundcore Model Zero+". 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 toorimoar accomption	of Eo F is described as following
Operation Frequency	5150 MHz~5250MHz;5725 MHz~5850MHz
Output Power	IEEE 802.11a20:12.09dBm; IEEE 802.11n(20):9.64dBm; IEEE802.11n(40):7.14dBm
Modulation	BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM,OFDM
Number of channels	9 for 20MHZ bandwidth system 4 for 40MHZ bandwidth system
Hardware Version	Rev: A
Software Version	V3.6
Antenna Designation	PIFA Antenna
Number of transmit chain	
Antenna Gain	1.65dBi for 5150-5250MHz 1.92dBi for 5725-5850MHz
Power Supply	DC 15V by adapter or DC 7.2V by battery

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	Frequency Band	Channel Number	Frequency
The trans	36	5180 MHz	5725 GHz~ 5850GHz	149	5745 MHz
Niesturon of Gar	38	5190 MHz		151	5755 MHz
CO S	40	5200 MHz		153	5765 MHz
5150 GHz~ 5250GHz	44	5220 MHz		157	5785 MHz
	46	5230 MHz		159	5795 MHz
	48	5240 MHz	10000000000000000000000000000000000000	161	5805 MHz
:1111			® # Julian of Global Con"	165	5825MHz
The Complaints			CO TO		

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;

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

This submittal(s) (test report) is intended for **FCC ID**: **2AOKB-Z6111** 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 = ±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	36,40,44,48,	36,38,48,149,	OFDM	6/6.5
Gopal Co.	149,153,157,161,165	157,165		
802.11n40	38,46,151,159	38,46, 151,159	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

Radiated Emission Configure:

EUT

Conducted Emission Configure:

	20 ES	
EUT	lion of Global Comp	AE

5.2. EQUIPMENT USED IN EUT SYSTEM

	Item	Equipment	Model No.	ID or Specification	Remark
Q = ==================================	1,0	Soundcore Model Zero+	Z6111	2AOKB-Z6111	EUT
	2	Adapter	DYS602-150400W	DC 15V/4A	AE

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

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 National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	M 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, 2018	Feb.28, 2019
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

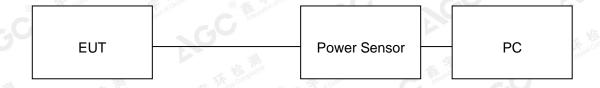
For average power test:

- 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



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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	11.98	24	Pass	
5200	12.09	24	Pass	
5240	11.73	24	Pass	
5745	11.56	30	Pass	
5785	11.29	30 Maring of Column	Pass	
5825	11.46	30	Pass	

LIMITS AND MEASUREMENT RESULT FOR 802.11N20 MODULATION					
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail		
5180	9.24	24	Pass		
5200	9.59	24	Pass		
5240	9.23	24	Pass		
5745	9.51	30	Pass		
5785	9.64	30	Pass		
5825	9.57	30	Pass		

Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
5190	7.05	24	Pass
5230	7.14	24	Pass
5755	6.99	30	Pass
5795	6.83	30	Pass

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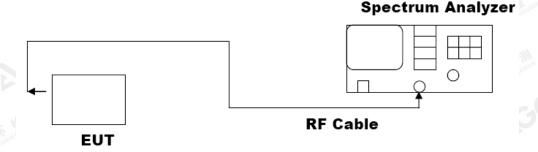
8. 6dB BANDWIDTH

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

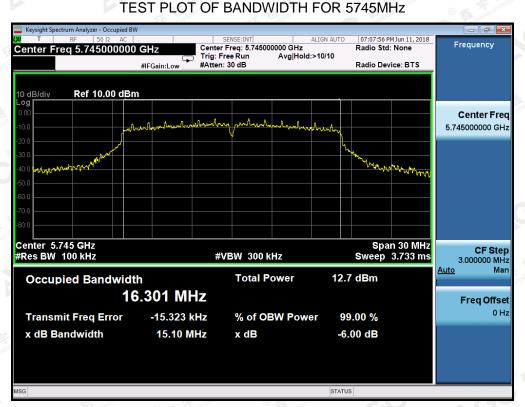
LIMITS AI	ND MEASUREMENT RESU	JLT FOR 802.11A20 MODU	JLATION	
Ampliachia Limita		Applicable Limits		
Applicable Limits	Test Data (MHz) Cr			
GU	5745MHz	15.10	PASS	
>500KHZ	5785MHz	13.91	PASS	
(a) Marian of Cabal Con	5825MHz	14.99	PASS	

LIMITS AND	MEASUREMENT RESU	LT FOR 802.11N20/40 MOD	DULATION
Annihadda Limita		Applicable Limits	
Applicable Limits	Test Dat	a (MHz)	Criteria
10	5745MHz	15.12	PASS
TILL SA TILL	5785MHz	15.08	PASS
>500KHZ	5825MHz	15.11	PASS
	5755MHz	33.81	PASS
	5795MHz	35.07	PASS

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802.11a20 TEST RESULT



TEST PLOT OF BANDWIDTH FOR 5785MHz



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TEST PLOT OF BANDWIDTH FOR 5825MHz



802.11n20 TEST RESULT TEST PLOT OF BANDWIDTH FOR 5745MHz



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TEST PLOT OF BANDWIDTH FOR 5785MHz



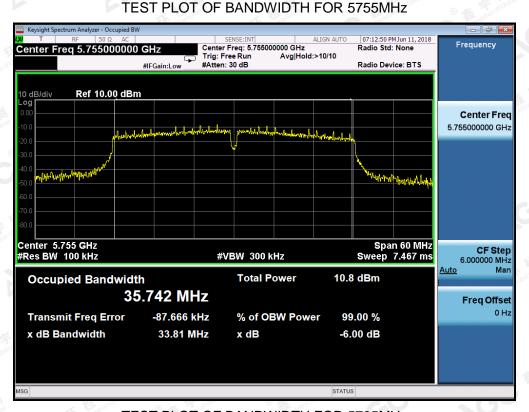
TEST PLOT OF BANDWIDTH FOR 5825MHz



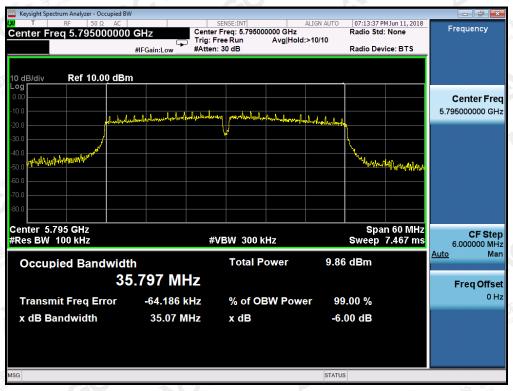
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802.11n40 TEST RESULT



TEST PLOT OF BANDWIDTH FOR 5795MHz



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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

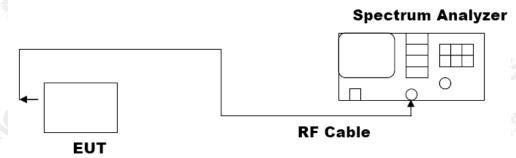
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

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 ≥ 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)



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9.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION					
Test Channel	-26dBc EBW (MHz)	99% OBW (MHz)	Criteria		
5180MHz	21.22	16.417	PASS		
5200MHz	19.50	16.367	PASS		
5240MHz	20.46	16.405	PASS		

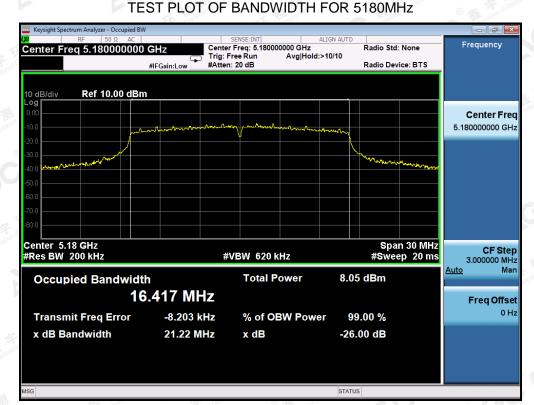
LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION				
Test Channel	-26dBc EBW (MHz)	99% OBW (MHz)	Criteria	
5180MHz	19.77	17.577	PASS	
5200MHz	19.60	17.547	PASS	
5240MHz	19.74	17.575	PASS	
5190MHz	39.93	35.962	PASS	
5230MHz	39.30	35.918	PASS	

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.

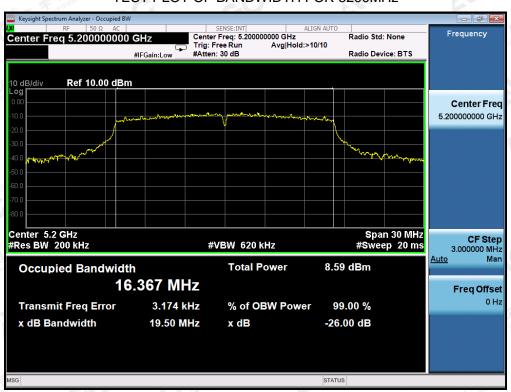
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802.11a20 TEST RESULT



TEST PLOT OF BANDWIDTH FOR 5200MHz



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TEST PLOT OF BANDWIDTH FOR 5240MHz



802.11n20 TEST RESULT TEST PLOT OF BANDWIDTH FOR 5180MHz



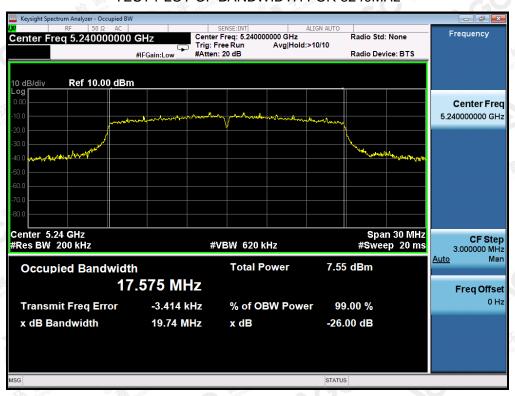
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TEST PLOT OF BANDWIDTH FOR 5200MHz



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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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)			Pass or Fail		
5180	4.059	The state of the s	Pass		
5200	3.686	C 11_C	Pass		
5240	3.856	11	Pass		
Frequency (MHz)	Power density (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail		
5745	3.995	30	Pass		
5785	3.465	30	Pass		
5825	2.536	30 @ M	Pass		

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Frequency (MHz)	Power density (dBm/MHz)	Applicable Limits (dBm)	Pass or Fai
5180	3.759	11	Pass
5200	3.395	11	Pass
5240	3.471	11	Pass
5190	3.583	11	Pass
5230	2.252	11	Pass
Frequency (MHz)	Power density (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	1.660	30	Pass
5785	0.802	30	Pass
5825	0.870	30	Pass
5755	1.214	30	Pass
5795	-0.300	30	Pass

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



TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



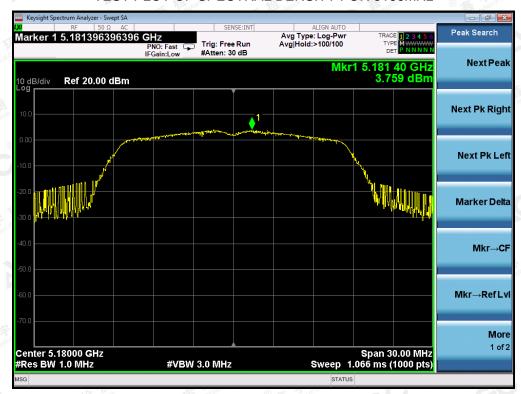
TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz



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802.11n20 TEST RESULTTEST PLOT OF SPECTRAL DENSITY FOR 5180MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz



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802.11n40 TEST RESULTTEST PLOT OF SPECTRAL DENSITY FOR 5190MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz



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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

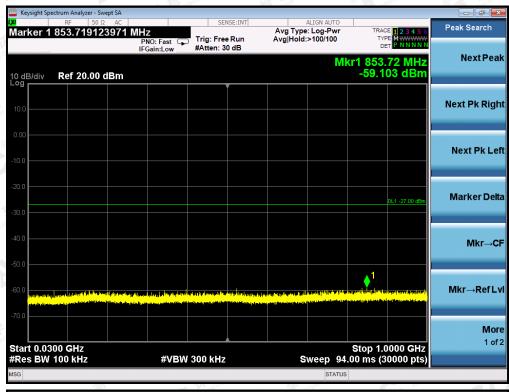
LIMITS AND MEASUREMENT RESULT						
Annilla alda di insita	Measurement Result					
Applicable Limits	Test channel	Criteria				
-27dBm/MHz	5150MHz-5250MHz	PASS				
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edgeincreasing linearly to 10 dBm/MHz at 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 increasing linearly to a level of 27 dBm/MHz at the band edge.	5725MHz-5850MHz	PASS				

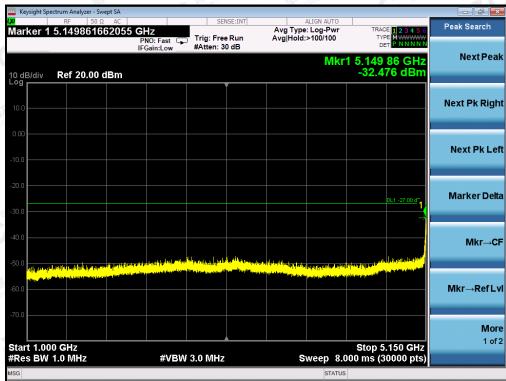
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FOR 802.11A20 MODULATION

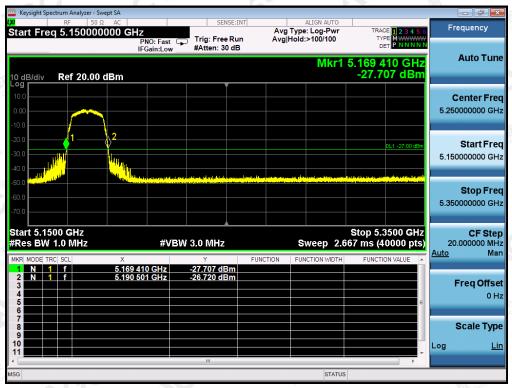
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5180MHz





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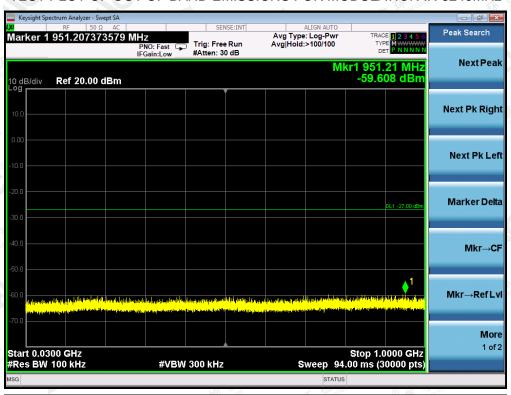


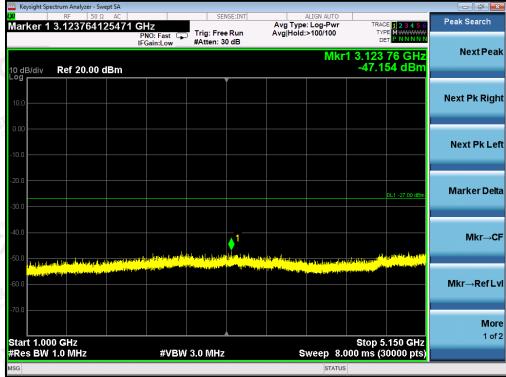


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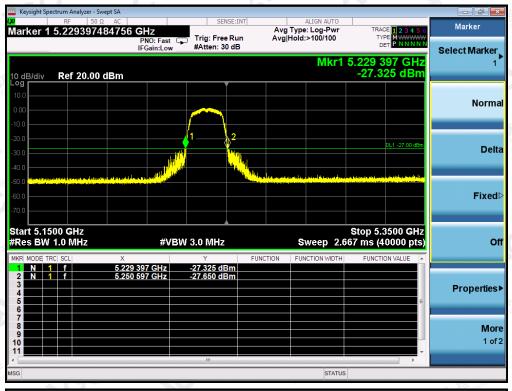
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5240MHz

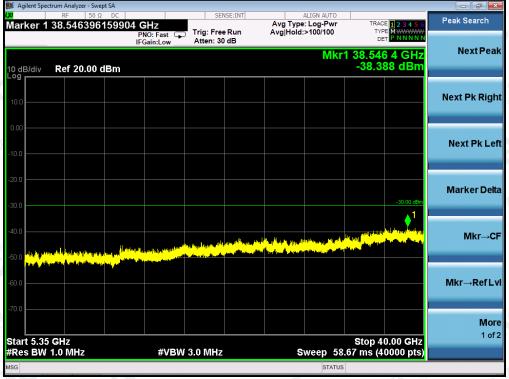




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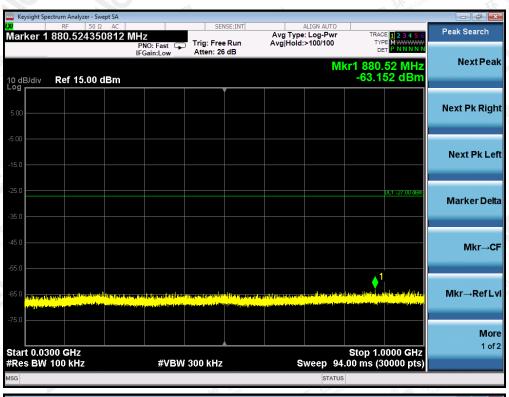


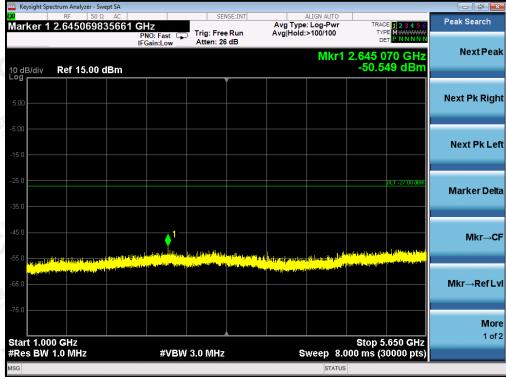


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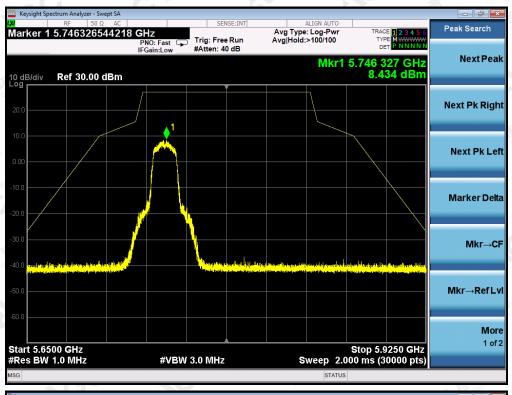
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5745MHz

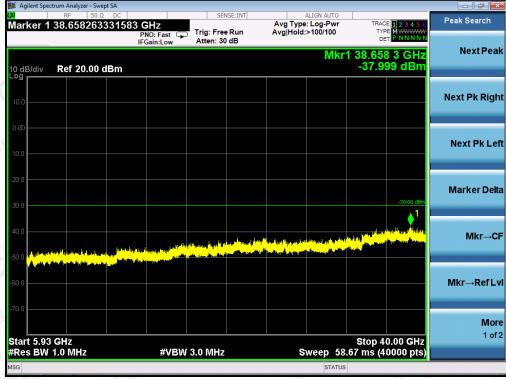




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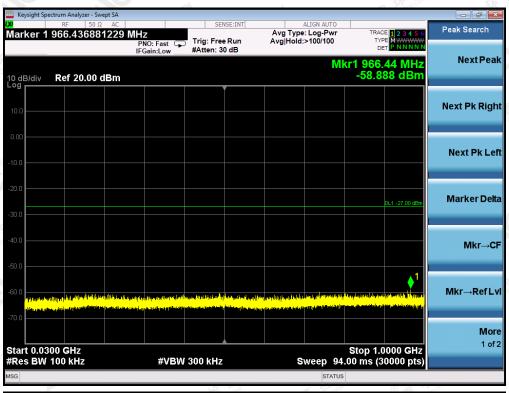


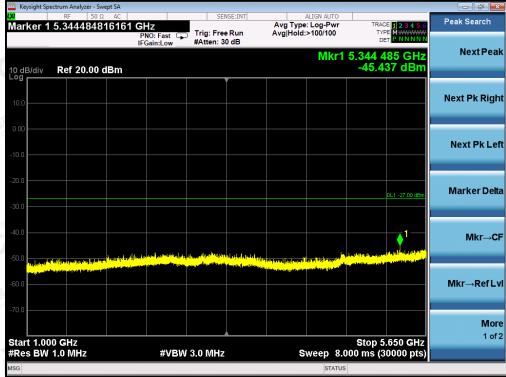


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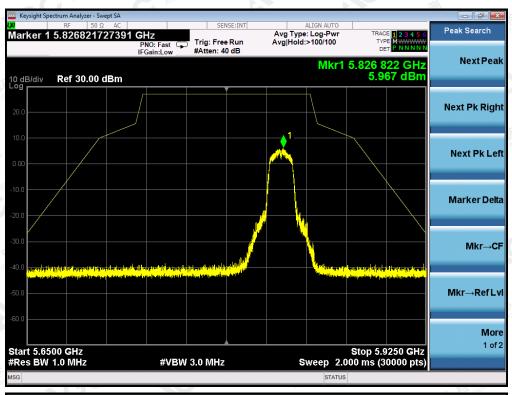
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5825MHz

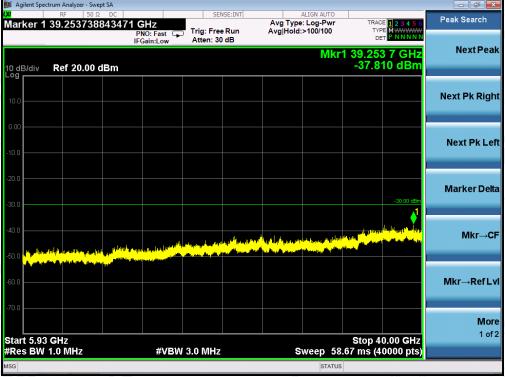




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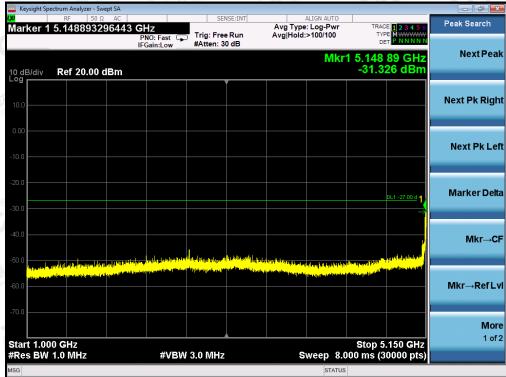
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FOR 802.11N40 MODULATION

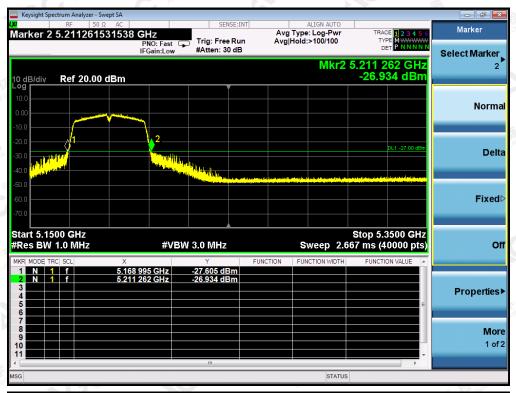
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5190MHz

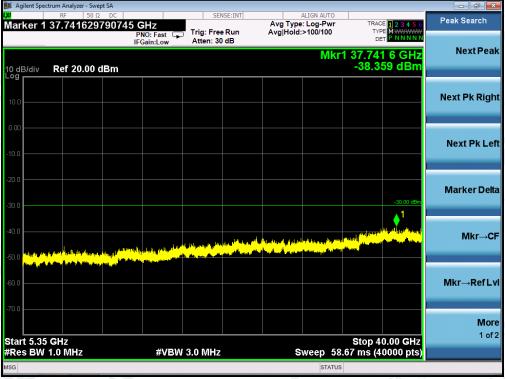




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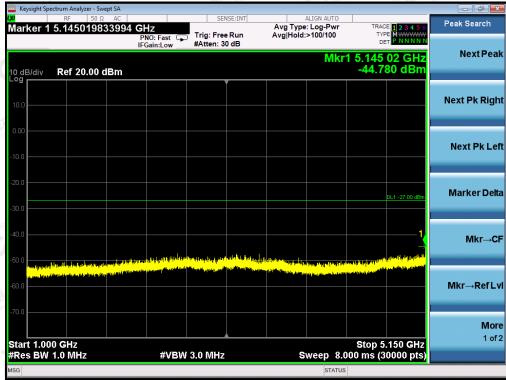


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TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5230MHz

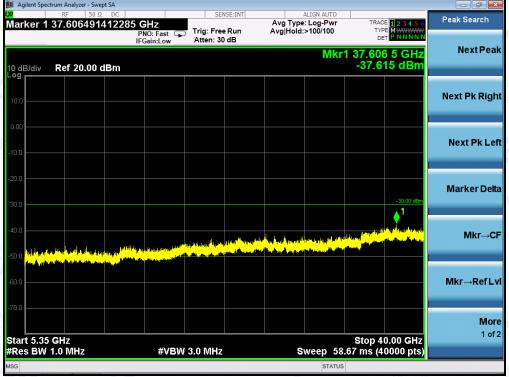




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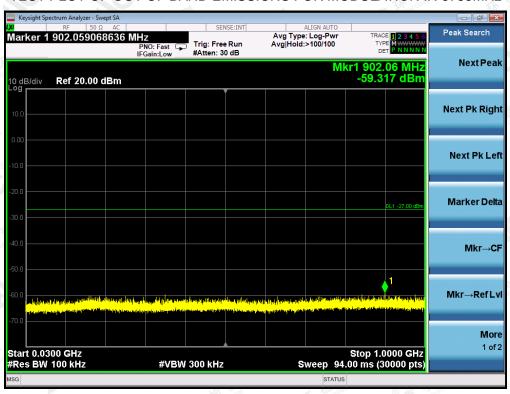


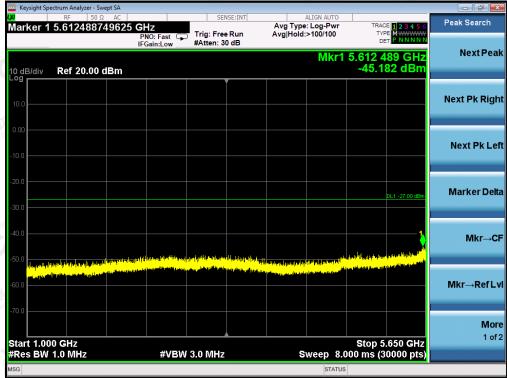


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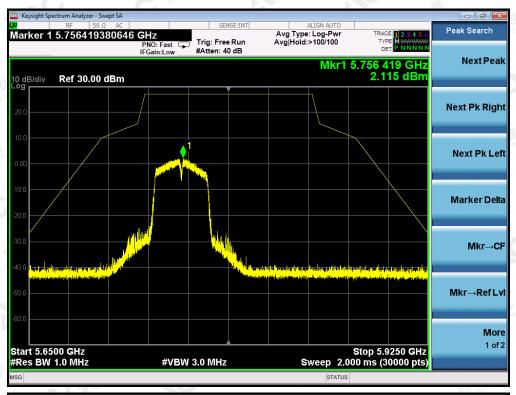
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5755MHz

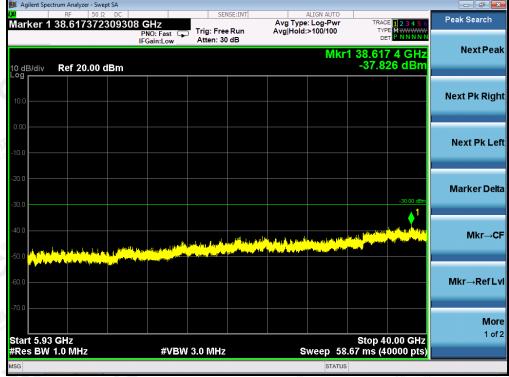




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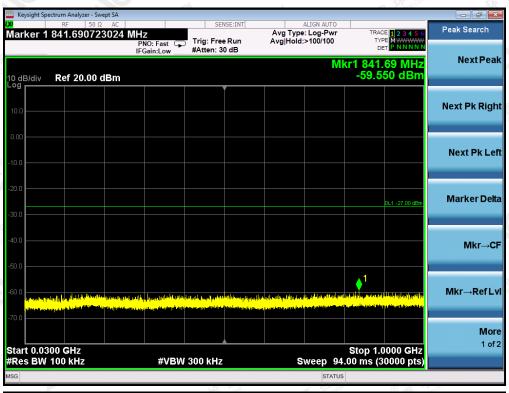


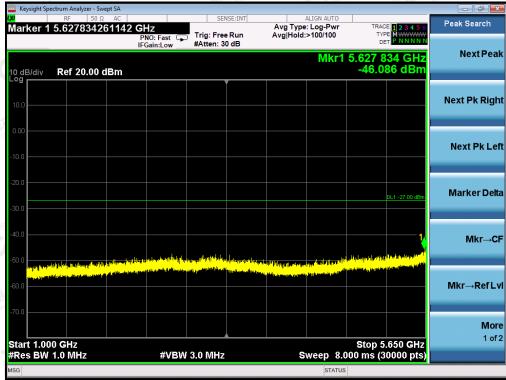


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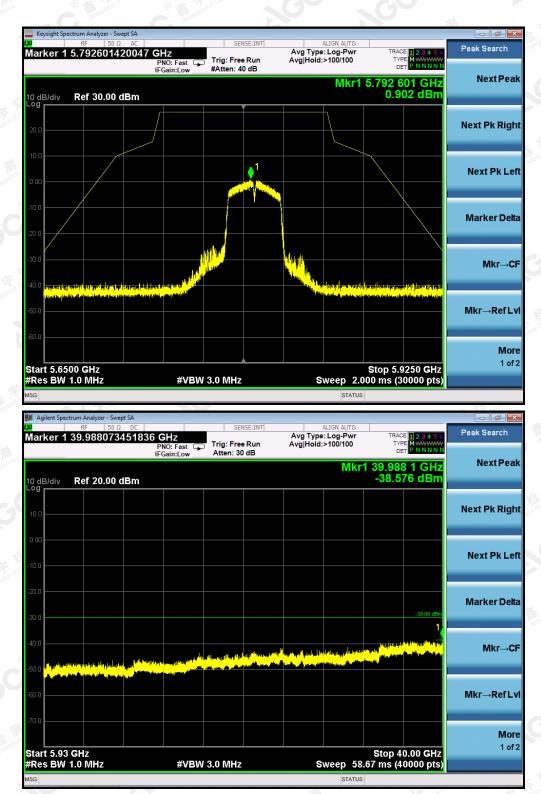
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5795MHz





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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.

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12. RADIATED EMISSION

12.1. MEASUREMENT PROCEDURE

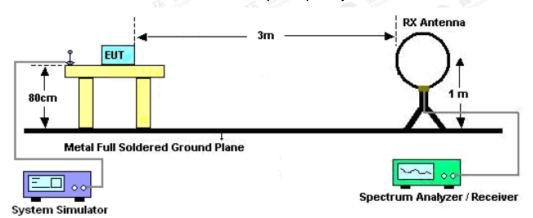
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 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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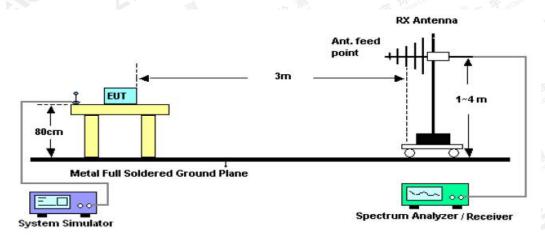


12.2. TEST SETUP

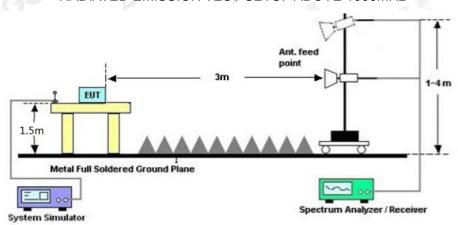
Radiated Emission Test-Setup Frequency Below 30MHz



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	The state of the s
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

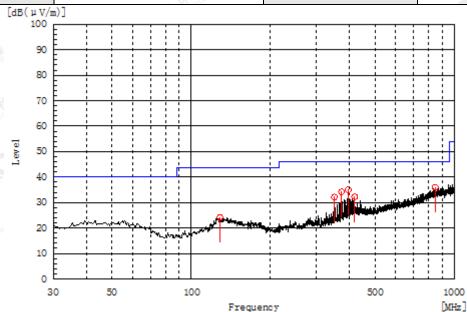
No emission found between lowest internal used/generated frequencies to 30MHz.

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RADIATED EMISSION BELOW 1GHZ

EUT	Soundcore Model Zero+	Model Name	Z6111
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



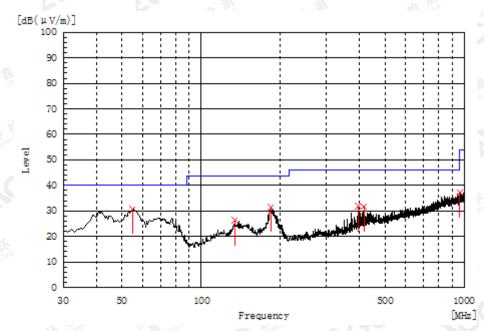
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
350.100	H Kindlero	13.3	18.9	32.2	46.0	13.8	Pass	150.0	288.1
372.410	rH ^{oo}	14.4	19.8	34.2	46.0	11.8	Pass	200.0	265.5
395.205	H	14.4	20.6	35.0	46.0	11.0	Pass	150.0	71.9
418.000	H	10.8	21.4	32.2	46.0	13.8	Pass	100.0	288.1
128.455	H # Jalion of Global Co	8.1	16.1	24.2	43.5	19.3	Pass	150.0	214.6
847.225	H	6.5	29.5	36.0	46.0	10.0	Pass	200.0	265.5

RESULT: PASS

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EUT	Soundcore Model Zero+	Model Name	Z6111
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
54.735	V	14.0	16.7	30.7	40.0	9.3	Pass	150.0	143.0
134.275	not Global V ®	9.8	16.5	26.3	43.5	17.2	Pass	200.0	143.7
184.230	V	17.4	14.1	31.5	43.5	12.0	Pass	200.0	287.8
395.205	V	11.1	20.6	31.7	46.0	14.3	Pass	100.0	92.3
416.060	© V John Copylico	10.4	21.3	31.7	46.0	14.3	Pass	200.0	143.7
964.110	V	6.6	30.8	37.4	54.0	16.6	Pass	100.0	1.7

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	Soundcore Model Zero+	Model Name	Z6111
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	\/-l T
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
10360.120	43.09	9.14	52.23	74	-21.77	peak
10360.120	38.13	9.14	47.27	54	-6.73	AVG
15540.180	40.05	10.22	50.27	74	-23.73	peak
15540.180	34.42	10.22	44.64	54	-9.36	AVG
Remark:	Allesta				TITLE .	- 300
actor = Ante	enna Factor + Ca	ble Loss –	Pre-amplifier.		AST MACO	TK 79 mpliane

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	42.36	9.14	51.5	74	-22.5	peak
10360.120	37.19	9.14	46.33	54	-7.67	AVG
15540.180	36.99	10.22	47.21	74	-26.79	peak
15540.180	33.05	10.22	43.27	54	-10.73	AVG
Remark:	Global Co	Attesto				
actor = Ante	enna Factor + C	able Loss -	Pre-amplifier.			INF THE
						ATAL WAY

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EUT	Soundcore Model Zero+	Model Name	Z6111
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	42.09	9.27	51.36	74	-22.64	peak
10480.120	36.17	9.27	45.44	54	-8.56	AVG
15720.180	39.05	10.38	49.43	74	-24.57	peak
15720.180	33.17	10.38	43.55	54	-10.45	AVG

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
10480.120	39.63	9.27	48.9	74	-25.1	peak
10480.120	35.71	9.27	44.98	54	-9.02	AVG
15720.180	39.01	10.38	49.39	od Com 74	-24.61	peak
15720.180	34.59	10.38	44.97	54	-9.03	AVG
Remark:	Global C	Alleste	2.C) "			
Factor = Ante	enna Factor + C	able Loss –	Pre-amplifier.		A	100

RADIATED EMISSION ABOVE 1GHZ-Vertical

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EUT	Soundcore Model Zero+	Model Name	Z6111
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	40.11	9.42	49.53	74	-24.47	peak
11490.120	35.26	9.42	44.68	54	-9.32	AVG
17235.180	37.19	10.51	47.7	74	-26.3	peak
17235.180	32.22	10.51	42.73	54	-11.27	AVG

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
11490.120	39.62	9.42	49.04	74	-24.96	peak
11490.120	38.61	9.42	48.03	54	-5.97	AVG
17235.180	26.04	10.51	36.55	o ^{al com} 74	-37.45	peak
17235.180	31.54	10.51	42.05	54	-11.95	AVG
Remark:	Global Co	Allesto	Z.C. "			
Factor = Ante	enna Factor + C	able Loss –	Pre-amplifier.		Α.	MS AMI

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EUT	Soundcore Model Zero+	Model Name	Z6111
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

M. W. (2)	ACMC COS.		VII.			
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11650.120	41.26	9.62	50.88	74	-23.12	peak
11650.120	35.69	9.62	45.31	54	-8.69	AVG
17475.180	38.41	10.75	49.16	74	-24.84	peak
17475.180	36.05	10.75	46.8	54	-7.2	AVG
Remark:	Allestation	Altes				Mir
actor = Ante	enna Factor + Ca	ble Loss -	Pre-amplifier.		415 - 11111	The Manufacture

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	41.85	9.62	51.47	74	-22.53	peak
11650.120	39.1	9.62	48.72	54	-5.28	AVG
17475.180	38.42	10.75	49.17	74	-24.83	peak
17475.180	31.99	10.75	42.74	54	-11.26	AVG
Remark:	Thomas Com	Attestation	- CI Alle			
actor = Ante	enna Factor + Ca	able Loss -	Pre-amplifier.			-711/1

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

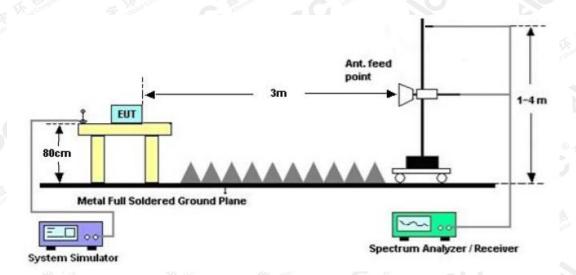
13.1. MEASUREMENT PROCEDURE

- 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(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	Soundcore Model Zero+	Model Name	Z6111
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

PK Value



AV Value



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EUT	Soundcore Model Zero+	Model Name	Z6111
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	Soundcore Model Zero+	Model Name	Z6111
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	Soundcore Model Zero+	Model Name	Z6111
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	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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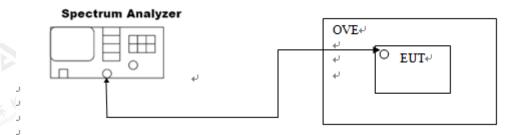
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14. FREQUENCY STABILITY

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
Ki phiance	- 10℃	5180	within the band	PASS
a) # For Global Collin	0℃	5180	within the band	PASS
Attestation'	10℃	5180	within the band	PASS
	20℃	5180	within the band	PASS
**************************************	30℃	5180	within the band	PASS
K Compile.	40 ℃	5180	within the band	PASS
© Marion	- 10℃	5240	within the band	PASS
CC And	0℃	5240	within the band	PASS
	10℃	5240	within the band	PASS
TK HELINGHAN	20℃	5240	within the band	PASS
an of Global Co	30℃	5240	within the band	PASS
000 110	40℃	5240	within the band	PASS
802.11a	- 10℃	5745	within the band	PASS
	0℃	5745	within the band	PASS
E .	10℃	5745	within the band	PASS
The Astronomy low	20 ℃	5745	within the band	PASS
@ A alion of Globa	30℃	5745	within the band	PASS
Artesu	40℃	5745	within the band	PASS
	- 10℃	5825	within the band	PASS
INF THE	0℃	5825	within the band	PASS
hai Compilance	10℃	5825	within the band	PASS
or 8 Attests on	20℃	5825	within the band	PASS
- GU	30℃	5825	within the band	PASS
	40℃ 📣	5825	within the band	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
e King man	- 10℃	5180	within the band	PASS
F Global Comp.	0℃	5180	within the band	PASS
B Attestation of	10℃	5180	within the band	PASS
	20℃	5180	within the band	PASS
IIII	30℃	5180	within the band	PASS
FK No Compliance	40℃	5180	within the band	PASS
(Color (Color Color Colo	- 10℃	5240	within the band	PASS
C Allesti	0℃	5240	within the band	PASS
C and	10℃	5240	within the band	PASS
校 排	20℃	5240	within the band	PASS
F Global Comb	30℃	5240	within the band	PASS
002 11 20	40℃	5240	within the band	PASS
802.11n20	- 10℃	5745	within the band	PASS
	0℃	5745	within the band	PASS
3	10℃	5745	within the band	PASS
下 将	20℃	5745	within the band	PASS
® # Gobalo	30℃	5745	within the band	PASS
Allestalle	40℃	5745	within the band	PASS
	- 10℃	5825	within the band	PASS
- Allife	0℃	5825	within the band	PASS
K Compliance	10℃	5825	within the band	PASS
Globs. (8)	20℃	5825	within the band	PASS
~ C3O "	30℃	5825	within the band	PASS
	40 ℃	5825	within the band	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
1000 AST 10000	- 10℃	5190	within the band	PASS
FA Global Comp.	0℃	5190	within the band	PASS
(E) Attestation of	10℃	5190	within the band	PASS
	20℃	5190	within the band	PASS
THE TANK	30℃	5190	within the band	PASS
下 发到	40 ℃	5190	within the band	PASS
of Glove	- 10°C	5230	within the band	PASS
C Alles	0℃	5230	within the band	PASS
O	10℃	5230	within the band	PASS
拉那	20 ℃	5230	within the band	PASS
802.11n40	30℃	5230	within the band	PASS
	40 ℃	5230	within the band	PASS
	- 10℃	5755	within the band	PASS
	0℃	5755	within the band	PASS
3	10℃	5755	within the band	PASS
不懂	20 ℃	5755	within the band	PASS
(C) The state of clobal Co	30℃	5755	within the band	PASS
Allestation	40℃	5755	within the band	PASS
	- 10℃	5795	within the band	PASS
The transfer of the state of th	0℃	5795	within the band	PASS
	10℃	5795	within the band	PASS
	20℃	5795	within the band	PASS
60 M	30℃	5795	within the band	PASS
	40℃	5795	within the band	PASS

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15. FCC LINE CONDUCTED EMISSION TEST

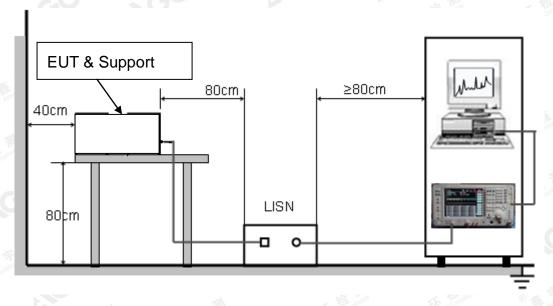
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage					
Frequency	Q.P.(dBuV)	Average(dBuV)				
150kHz~500kHz	66-56	56-46				
500kHz~5MHz	56	46				
5MHz~30MHz	060	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

- 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.

15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

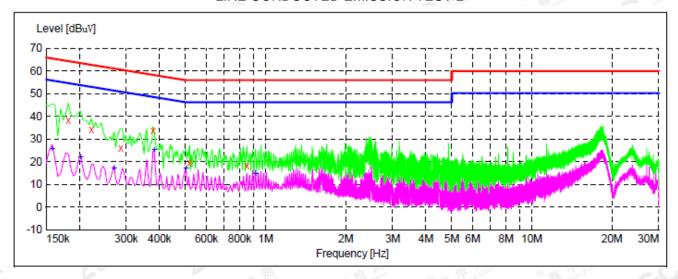
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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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15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT: "TEST fin"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.182000	38.10	10.0	64	26.3	QP	L1	FLO
0.222000	34.00	10.1	63	28.7	QP	L1	FLO
0.286000	26.10	10.1	61	34.5	QP	L1	FLO
0.378000	33.80	10.0	58	24.5	QP	L1	FLO
0.518000	19.60	9.9	56	36.4	QP	L1	FLO
0.850000	18.40	10.1	56	37.6	QP	L1	FLO

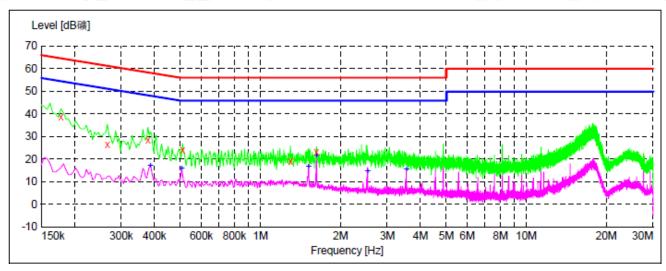
MEASUREMENT RESULT: "TEST fin2"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.158000 0.202000 0.270000 0.382000 0.502000	25.70 22.10 17.20 25.30 17.00	10.0 10.1 10.1 10.0 9.9	55 54 53 49 46	29.7 35.7 35.5 23.6 29.0	AV AV	L1 L1 L1 L1	FLO FLO FLO FLO
0.918000	14.60	10.1	46	31.4	AV	L1	FLO

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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "TEST fin"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.178000	38.70	10.0	65	25.9	QP	N	FLO
0.266000	26.60	10.1	61	34.6	QP	N	FLO
0.378000	28.50	10.0	58	29.8	QP	N	FLO
0.510000	23.90	9.9	56	32.1	QP	N	FLO
1.298000	19.00	10.1	56	37.0	QP	N	FLO
1.626000	23.30	10.0	56	32.7	QP	N	FLO

MEASUREMENT RESULT: "TEST fin2"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.386000	17.10	10.0	49	31.7	AV	N	FLO
0.506000	15.80	9.9	46	30.2	AV	N	FLO
1.518000	16.50	10.0	46	29.5	AV	N	FLO
1.626000	21.60	10.0	46	24.4	AV	N	FLO
2.530000	14.70	9.9	46	31.3	AV	N	FLO
3.546000	15.40	10.0	46	30.6	AV	N	FLO

RESULT: PASS

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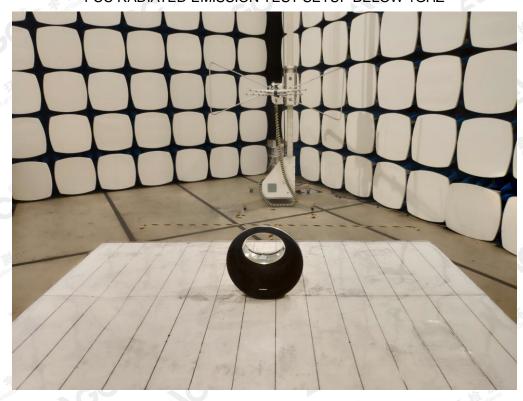


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



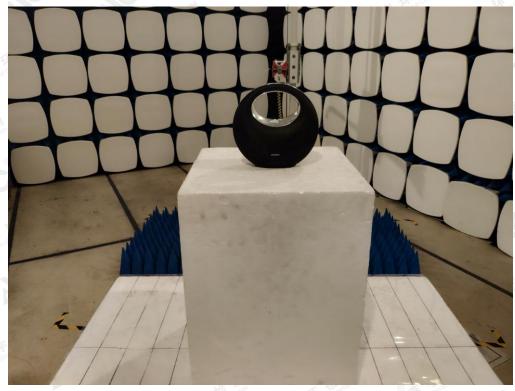
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FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



--END OF REPORT----

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