

# **FCC Test Report**

# Report No.: AGC03329190302FE03

: 2AAXO-SMK1010XX
: Original Equipment
PORTABLE SOUND CHANGER KARAOKE PLAYER WITH BLUETOOTH
: Singing Machine
: See page 5
: The Singing Machine Company, Inc.
: Mar. 21, 2019
: FCC Part 15 Subpart C Section 15.247
: V1.0

# Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report No.: AGC03329190302FE03 Page 2 of 68

# **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	CO Pressure	Mar. 21, 2019	Valid	Initial release

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Report No.: AGC03329190302FE03 Page 3 of 68

# TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	5
2. GENERAL INFORMATION	
2.1. PRODUCT DESCRIPTION	6
2.2. TABLE OF CARRIER FREQUENCYS	6
2.3. RECEIVER INPUT BANDWIDTH	7
2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE	7
2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR	
2.6. TEST METHOD	
2.7. EQUIPMENT MODIFICATIONS	
3. MEASUREMENT UNCERTAINTY	8
4. DESCRIPTION OF TEST MODES	9
5. SYSTEM TEST CONFIGURATION	10
5.1. CONFIGURATION OF EUT SYSTEM	10
5.2. EQUIPMENT USED IN EUT SYSTEM	
5.3. SUMMARY OF TEST RESULTS	11
6. TEST FACILITY	12
7. TEST EQUIPMENT LIST	12
8. PEAK OUTPUT POWER	
8.1. MEASUREMENT PROCEDURE	13
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	13
8.3. LIMITS AND MEASUREMENT RESULT	
9. BANDWIDTH	20
9.1. MEASUREMENT PROCEDURE	20
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
9.3. LIMITS AND MEASUREMENT RESULTS	
10. CONDUCTED SPURIOUS EMISSION	27
10.1. MEASUREMENT PROCEDURE	
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	27
10.3. LIMITS AND MEASUREMENT RESULT	27

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Report No.: AGC03329190302FE03 Page 4 of 68

11. RADIATED EMISSION	31
11.1. TEST LIMIT	
11.2. MEASUREMENT PROCEDURE	
11.3. TEST SETUP	
11.4. TEST RESULT	35
12. BAND EDGE EMISSION	40
12.1. MEASUREMENT PROCEDURE	40
12.2. TEST SETUP	
12.3. TEST RESULT	41
13. NUMBER OF HOPPING FREQUENCY	46
13.1. MEASUREMENT PROCEDURE	
13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	46
13.3. LIMITS AND MEASUREMENT RESULT	47
14. TIME OF OCCUPANCY (DWELL TIME)	48
14.1. MEASUREMENT PROCEDURE	
14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
14.3. LIMITS AND MEASUREMENT RESULT	48
15. FREQUENCY SEPARATION	
15.1. MEASUREMENT PROCEDURE	51
15.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	51
15.3. LIMITS AND MEASUREMENT RESULT	
16. LINE CONDUCTED EMISSION TEST	53
16.1. LIMITS OF LINE CONDUCTED EMISSION TEST	53
16.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	53
16.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	54
16.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	54
16.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	55
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	57
APPENDIX B: PHOTOGRAPHS OF EUT	59

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### Report No.: AGC03329190302FE03 Page 5 of 68

# **1. VERIFICATION OF CONFORMITY**

Applicant	The Singing Machine Company, Inc.	
Address	6301 NW 5th Way, Suite 2900, Fort Lauderdale, FL 33309, USA	
Manufacturer	SHENZHEN JUNLAN ELECTRONIC LTD	
Address	No.277 PingKui Road, Shijing Community, Pingshan Street, Pingshan New District, Shenzhen, China	
Factory	SHENZHEN JUNLAN ELECTRONIC LTD	
Address	No.277 PingKui Road, Shijing Community, Pingshan Street, Pingshan New District, Shenzhen, China	
Product Designation	PORTABLE SOUND CHANGER KARAOKE PLAYER WITH BLUETOOTH	
Brand Name	Singing Machine	
Test Model	SMK1010	
Series Model	Kids Pedestal, SMK1010, SMK1011, SMK1011XX, SMK1010XX (XX means unit color, it can be A to Z or N/A	
Difference Description	All the same except for the appearance color	
Date of test	Mar. 08, 2019 to Mar. 21, 2019	
Deviation	None	
Condition of Test Sample	Normal	
Report Template	AGCRT-US-BR/RF (2013-03-01)	

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.247. The test results of this report relate only to the tested sample identified in this report.

sky dong Tested By Sky Dong(Dong Huihui) Mar. 21, 2019 Borg se **Reviewed By** Mar. 21, 2019 Bart Xie(Xie Xiaobin) Forvesto en Approved By Forrest Lei(Lei Yonggang) Mar. 21, 2019 Authorized Officer

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# 2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

The EUT is "PORTABLE SOUND CHANGER KARAOKE PLAYER WITH BLUETOOTH" designed as a "Communication Device". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
RF Output Power	4.722dBm(Max)
Bluetooth Version	V5.0
Modulation	GFSK, π /4-DQPSK, 8DPSK for BR/EDR
Number of channels	79 for BR/EDR
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	OdBi
Power Supply(by battery)	DC 6V by battery
Power Supply(by adapter)	MODEL:GKYPS0150058UL1 INPUT:100-240V~50/60Hz 0.5A OUTPUT:5.8V===1500mA
Note: 1. The EUT didn't supp	ort BLE.

2. The EUT was supplied by battery or adapter. Only the worst test data of adapter mode recorded in the test report.

# 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
A The And Comple	00	2402MHz
And Complete	01	2403MHz
	38	2440 MHz
2402~2480MHz	39	2441 MHz
The Compliance 8 55	· 40	2442 MHz
8 The subro Court		
	77	2479 MHz
	78	2480 MHz

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# Report No.: AGC03329190302FE03 Page 7 of 68

# 2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHZ, In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the

master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

# 2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 79 hopping sequence in data mode: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

# 2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values: 1. LAP/UAP of the master of the connection.

2. Internal master clock

The LAP(lower address part) are the 24 LSB's of the 48 BD\_ADDRESS. The BD\_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of the 48BD\_ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For synchronization with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire. LAP(24 bits),4LSB's(4bits)(Input 1) and the 27MSB's of the clock(Input 2) are used. With this input values different mathematical procedures(permutations, additions, XOR-operations) are performed to generate te Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended. The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer(and it Cannot be shorter) than the minimum resolution of the clock(312.5us).The hopping sequence will always Differ from the first one.

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Report No.: AGC03329190302FE03 Page 8 of 68

# 2.6. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013.

# 2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

# **3. MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard

uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %

- Uncertainty of Conducted Emission,  $Uc = \pm 3.2 \text{ dB}$
- 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

	NO.	TEST MODE DESCRIPTION
12 maisines	1 the man	Low channel GFSK
о С. <b>4</b>	2	Middle channel GFSK
GC	3	High channel GFSK
	4	Low channel π /4-DQPSK
Fration of Glob	5	Middle channel π /4-DQPSK
Allow	6	High channel π /4-DQPSK
	7	Low channel 8DPSK
8	8	Middle channel 8DPSK
C.C	9	High channel 8DPSK
	10	BT Link

2. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

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# Report No.: AGC03329190302FE03 Page 10 of 68

# **5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM**

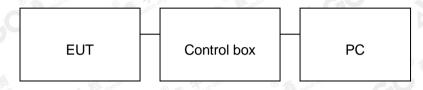
Configure 1: (Normal hopping)

	/
EUT	

Adapter

Note: Owing to the EUT can power supply by battery or adapter, testing may be performed while adapter removed.

Configure 2: (Control continuous TX)



# **5.2. EQUIPMENT USED IN EUT SYSTEM**

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1. Th	PORTABLE SOUND CHANGER KARAOKE PLAYER WITH BLUETOOTH	Singing Machine	SMK1010	EUT
2	IPOD	APPLE	A1367	A.E
3	Control box	BEKEN	N/A	A.E
4	Adapter	GUANGKAIYUAN	GKYPS0150058UL1	Accessory
5	battery	N/A	N/A	A.E

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# **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247 b(1)	Peak Output Power	Compliant
§15.247 a(1)	20 dB Bandwidth	Compliant
§15.247 d	Conducted Spurious Emission	Compliant
§15.247 d §15.209	Radiated Emission	Compliant
§15.247 d	Band Edges	Compliant
§15.247 a(1)(iii)	Number of hopping frequency	Compliant
§15.247 a(1)(iii)	Time of Occupancy	Compliant
§15.247 a(1)	Frequency Separation	Compliant
§15.207	Line conduction Emission	Compliant

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# 6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd	
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China	
Designation Number	CN1259	
FCC Test Firm Registration Number	975832	
A2LA Cert. No.	5054.02	
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA	

# 7. TEST EQUIPMENT LIST

# TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2018	Jun. 11, 2019
LISN	R&S	ESH2-Z5	100086	Aug. 28, 2018	Aug. 27, 2019

# **TEST EQUIPMENT OF RADIATED EMISSION TEST**

		2 N . COM	12	- 199 <sup>9</sup>		
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2018	Jun. 11, 2019	
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019	
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 12, 2018	Jun. 11, 2019	
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 12, 2018	Jun. 11, 2019	
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020	
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020	
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020	
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019	
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019	

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# Report No.: AGC03329190302FE03 Page 13 of 68

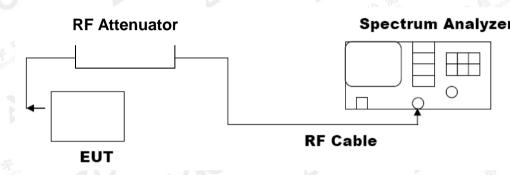
# 8. PEAK OUTPUT POWER

# 8.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
- 3. RBW > the 20 dB bandwidth of the emission being measured, VBW  $\ge$  RBW.
- 4. Record the maximum power from the Spectrum Analyzer.
- 5. The maximum peak power shall be less 21dBm.

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



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# 8.3. LIMITS AND MEASUREMENT RESULT

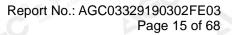
		MEASUREMENT RESULT	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	2.740	21	Pass
2.441	2.465	21	Pass
2.480	1.978	21	Pass



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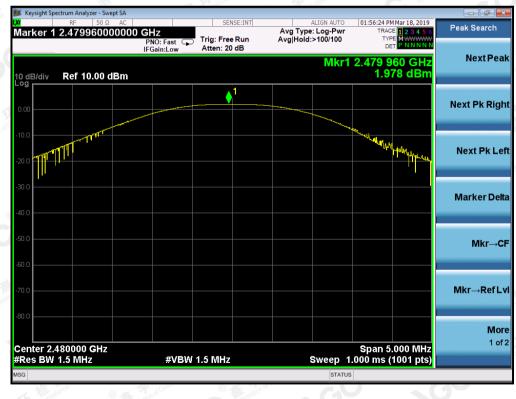








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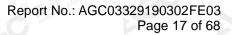
		R MEASUREMENT RESULT	
Frequency (GHz)	FOR II /4-DQ Peak Power (dBm)	PSK MODULATION Applicable Limits (dBm)	Pass or Fail
2.402	4.487	21	Pass
2.441	4.217	21	Pass
2.480	3.802	21	Pass

CH00



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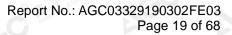
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	PEAK OUTPUT POWE	R MEASUREMENT RESULT	
	FOR 8-DPS	K MODULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	4.722	21	Pass
2.441	4.480	21 <sup>©</sup>	Pass
2.480	4.071	21	Pass

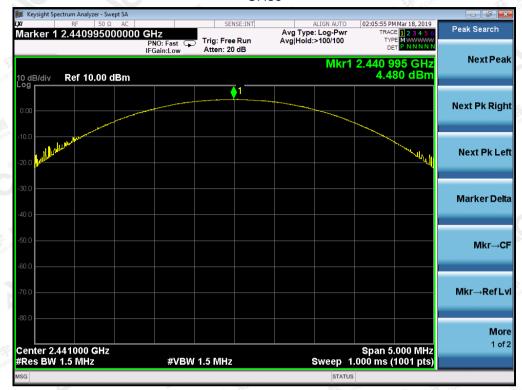


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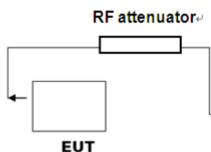
# Report No.: AGC03329190302FE03 Page 20 of 68

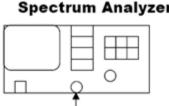
# 9. BANDWIDTH

# 9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW  $\ge$  1% of the 20 dB bandwidth, VBW  $\ge$  3RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

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





**RF** Cable

**Note:** The EUT has been used temporary antenna connector for testing. **9.3. LIMITS AND MEASUREMENT RESULTS** 

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT							
		Measurement Result					
Applicable Limits							
		99%OBW (MHz)	-20dB BW(MHz)	Result			
Q at \$ al Goba Comm	Low Channel	0.914	1.022	PASS			
N/A	Middle Channel	0.915	1.022	PASS			
	High Channel	0.909	1.021	PASS			

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# TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

### 01:34:38 PM Mar 18, 2019 Radio Std: None Center Freq: 2.441000000 GHz Trig: Free Run Avg|Ho #Atten: 20 dB Frequency Center Freq 2.441000000 GHz Avg|Hold:>10/10 Ģ #IEGain:Low Radio Device: BTS Ref 10.00 dBm dB/div **Center Freq** 2.441000000 GHz Span 3 MHz Sweep 4.133 ms Center 2.441 GHz #Res BW 30 kHz **CF** Step #VBW 100 kHz 300.000 kH Auto Mar **Occupied Bandwidth Total Power** 8.35 dBm 915.05 kHz **Freq Offset** 0 H 1.061 kHz **OBW Power** 99.00 % Transmit Freg Error x dB Bandwidth 1.022 MHz -20.00 dB x dB STATUS

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

STATUS

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STATUS

# TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT						
	Measurement Result					
Applicable Limits		Decult				
		99%OBW (MHz)	-20dB BW(MHz)	Result		
Handards Hand	Low Channel	1.201	1.362	PASS		
N/A	Middle Channel	1.208	1.365	PASS		
GO	High Channel	1.206	1.365	PASS		

### 01:35:42 PM Mar 18, 2019 SENSE:INT Center Freq: 2.402000000 GHz Trig: Free Run Avg|Hol #Atten: 20 dB ALIGN AUTO Frequency Radio Std: None Center Frea 2.402000000 GHz Avg|Hold:>10/10 Radio Device: BTS #IFGain:Low Ref 10.00 dBm oa **Center Freq** 2.402000000 GHz Span 3 MHz Sweep 4.133 ms Center 2.402 GHz #Res BW 30 kHz CF Step 300.000 kHz #VBW 100 kHz Ma Auto Total Power 8.52 dBm Occupied Bandwidth 1.2009 MHz **Freq Offse** 0 Hz -1.231 kHz **OBW Power** 99.00 % Transmit Freq Error x dB Bandwidth 1.362 MHz x dB -20.00 dB

# TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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STATUS

Keysight Spectrum Analyzer - Occupied BW	-/////				e clor		
RF 50 Ω AC   enter Freq 2.441000000	GHz Center Trig: F	SENSE:INT Freq: 2.441000000 GHz ree Run Avg Ho : 20 dB	ALIGN AUTO	01:36:26 P Radio Std Radio Dev		Fr	equency
5 dB/div Ref 10.00 dBm							
0.0			~				<b>Center Fre</b> 1000000 G⊦
5.0 min man when the second second			how	and the states	m		
.0							
i.0							
i.0							
10							
25							
enter 2.441 GHz Res BW 30 kHz	#	VBW 100 kHz			an 3 MHz 4.133 ms		CF Ste 300.000 ki
Occupied Bandwidth		Total Power	8.43	dBm		<u>Auto</u>	Ma
1.2	2075 MHz					I	Freq Offs
Transmit Freq Error	-182 Hz	<b>OBW Power</b>	99	.00 %			01
x dB Bandwidth	1.365 MHz	x dB	-20.	00 dB			
G			STATUS	3			

# TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

# TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUETOOTH	3MBPS LIMITS AN	D MEASUREMENT R	ESULT			
	Measurement Result					
	Test Data (MHz)					
	99%OBW (MHz)	-20dB BW(MHz)	Result			
Low Channel	1.210	1.346	PASS			
Middle Channel	1.212	1.350	PASS			
High Channel	1.208	1.349	PASS			
	Low Channel Middle Channel	Me Test Data (MHz) 99%OBW (MHz) Low Channel 1.210 Middle Channel 1.212	Test Data (MHz)99%OBW (MHz)-20dB BW(MHz)Low Channel1.2101.346Middle Channel1.2121.350			



# TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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# TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

# TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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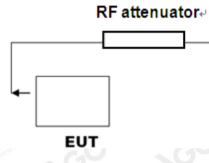
# Report No.: AGC03329190302FE03 Page 27 of 68

# **10. CONDUCTED SPURIOUS EMISSION**

# 10.1. 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 the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
  - RBW = 100 kHz; VBW = 300kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

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



# Spectrum Analyze

**RF** Cable

# **10.3. LIMITS AND MEASUREMENT RESULT**

LIMITS AND MEASUREMENT RESULT					
	Measurement Re	sult			
Applicable Limits	Test Data	Result			
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS			
intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS			

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### 02:35:21 PM Mar 18, 2019 Peak Search Avg Type: Log-Pwr Avg|Hold:>100/100 Marker 1 908.459284581 MHz Trig: Free Run Atten: 20 dB PNO: Fast IFGain:Low Next Pea Mkr1 908.46 MHz 69.520 dBn Ref 10.00 dBm Next Pk Right Next Pk Left Marker Delta Start 30.0 MHz #Res BW 100 kHz Stop 1.0000 GHz Sweep 92.83 ms (8192 pts) #VBW 300 kHz Mkr→C 908.46 MHz -69.520 dBm Mkr→RefLvi More 1 of 2 Agilent R Т Peak Search Mkr2 20.46 GHz -53.46 dBm Ref 20 dBm Atten 30 dB Next Peak Peak Log 10 Next Pk Right dB/ Next Pk Left Min Search LgAv Start 1.00 GHz Stop 25.00 GHz #Res BW 100 kHz Pk-Pk Search #VBW 300 kHz Sweep 2.294 s (8192 pts) Type Freq Freq X Axis 2.40 GHz 20.46 GHz Marker Trace Amplitude 5.31 dBm -53.46 dBm (1)(1)2 Mkr → CF More 1 of 2 Copyright 20

# TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 8DPSK MODULATION IN LOW CHANNEL

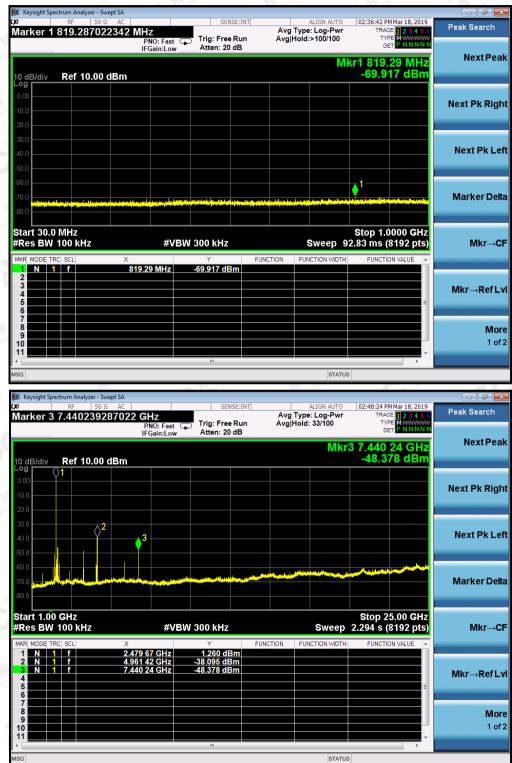
The results show of this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attrp://www.agc.gatt.com.



# 02:36:25 PM Mar 18, 2019 Peak Search Avg Type: Log-Pwr Avg|Hold:>100/100 Marker 1 963.170553046 MHz Trig: Free Run Atten: 20 dB PNO: Fast IFGain:Low Next Pea Mkr1 963.17 MHz -70.255 dBm Ref 10.00 dBm Next Pk Right Next Pk Left Marker Delt Start 30.0 MHz #Res BW 100 kHz Stop 1.0000 GHz Sweep 92.83 ms (8192 pts) #VBW 300 kHz Mkr→C 963.17 MHz -70.255 dBm Mkr→RefLvi More 1 of 2 STATUS 02:41:17 PM Mar 18, 2019 TRACE 1 2 3 4 5 ( Avg Type: Log-Pwr Avg|Hold: 12/100 Marker 3 4.003296300818 GHz PNO: Fast IFGain:Low Peak Search Trig: Free Run Atten: 20 dB Next Peak Mkr3 4.003 30 GHz -45.807 dBm Ref 10.00 dBm dBid Next Pk Right Next Pk Left Marker Delta Start 1.00 GHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.294 s (8192 pts) #VBW 300 kHz Mkr→CF Mkr→RefLv More 1 of 2 STATUS

# TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN MIDDLE CHANNEL

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# TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN HIGH CHANNEL

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# **11. RADIATED EMISSION**

# 11.1. TEST LIMIT

Frequency	Distance	Field Strengths Limit			
(MHz)	Meters	μ V/m	dB(µV)/m		
0.009 ~ 0.490	300	2400/F(kHz)	10 m - Frod Come		
0.490 ~ 1.705	30	24000/F(kHz)			
1.705 ~ 30	30	30			
30 ~ 88	3	100	40.0		
88 ~ 216	3	150	43.5		
216 ~ 960	8 3 5	200	46.0		
960 ~ 1000	3	500	54.0		
Above 1000	3	Other:74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Avera			

Remark: (1) Emission level dB $\mu$  V = 20 log Emission level  $\mu$  V/m.

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

# **11.2. MEASUREMENT PROCEDURE**

- The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.1 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 0.1 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak&AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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Report No.: AGC03329190302FE03 Page 32 of 68

	Spectrum Parameter	Setting
Start ~Stop Frequency		9KHz~150KHz/RB 200Hz for QP
Globe	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
GC *	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
		1GHz~26.5GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average

The following table is the setting of spectrum analyzer and receiver.

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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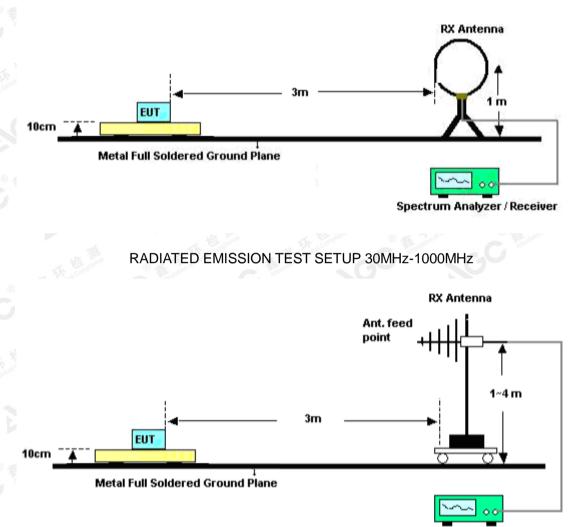




Report No.: AGC03329190302FE03 Page 33 of 68

# 11.3. TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 30MHz



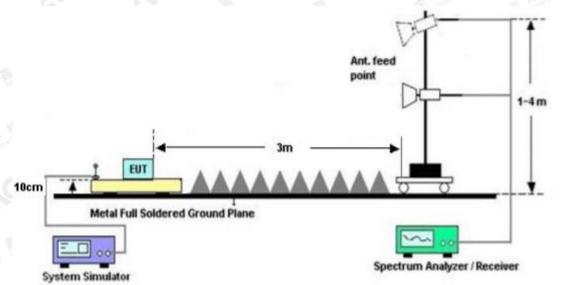
Spectrum Analyzer / Receiver

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Report No.: AGC03329190302FE03 Page 34 of 68



RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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# Report No.: AGC03329190302FE03 Page 35 of 68

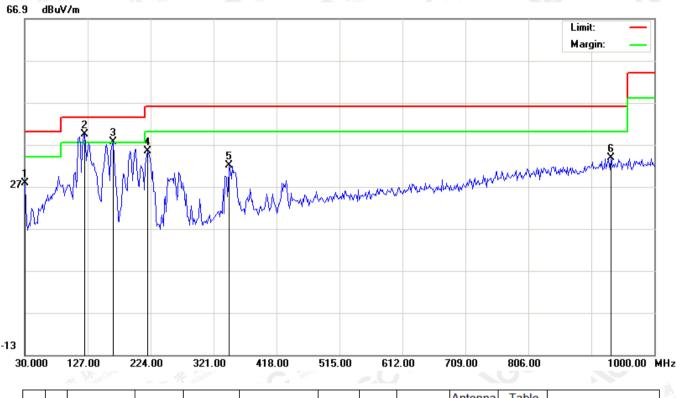
# 11.4. TEST RESULT

# (Worst Modulation: 8DPSK)

# **RADIATED EMISSION BELOW 30MHz**

No emission found between lowest internal used/generated frequencies to 30MHz. **RADIATED EMISSION BR/EDR BELOW 1GHz** 

# RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL

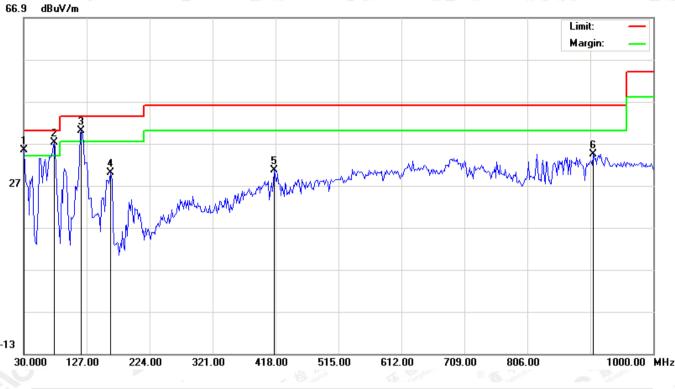


N	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1		30.0000	9.62	18.17	27.79	40.00	-12.21	peak			
250	2	*	122.1500	21.37	18.11	39.48	43.50	-4.02	peak			
¢.	3	İ	165.8000	18.98	18.59	37.57	43.50	-5.93	peak			
	4		219.1500	18.12	17.19	35.31	46.00	-10.69	peak			
	5		345.2500	10.96	21.06	32.02	46.00	-13.98	peak			
	6		933.7167	1.76	31.99	33.75	46.00	-12.25	peak			

# **RESULT: PASS**

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Report No.: AGC03329190302FE03 Page 36 of 68



# RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL

No.	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector Hei	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	İ	30.0000	17.25	18.17	35.42	40.00	-4.58	peak			
2	*	76.8833	21.57	15.62	37.19	40.00	-2.81	peak			
3	İ	118.9167	22.17	17.86	40.03	43.50	-3.47	peak			
4		164.1833	11.30	18.76	30.06	43.50	-13.44	peak			
5		416.3833	7.28	23.31	30.59	46.00	-15.41	peak			
6		907.8500	2.72	31.77	34.49	46.00	-11.51	peak			

# **RESULT: PASS**

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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EUT :	PORTABLE SOUND CHANGER KARAOKE PLAYER WITH BLUETOOTH	Model Name. :	SMK1010	
Temperature :		Relative Humidtity :	48%	
Pressure :	1010 hPa	Test Voltage :	DC 5.8V	
Test Mode :	Mode 7	Polarization :	Horizontal	

#### **RADIATED EMISSION ABOVE 1GHZ FOR BR/EDR**

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	S
47.33	7.12	54.45	74	-19.55	peak
44.52	7.12	51.64	54	-2.36	AVG
42.97	9.84	52.81	74	-21.19	peak
39.98	9.84	49.82	54	-4.18	AVG
	(dBµV) 47.33 44.52 42.97	(dBµV)     (dB)       47.33     7.12       44.52     7.12       42.97     9.84	(dBµV)     (dB)     (dBµV/m)       47.33     7.12     54.45       44.52     7.12     51.64       42.97     9.84     52.81	(dBµV)     (dB)     (dBµV/m)     (dBµV/m)       47.33     7.12     54.45     74       44.52     7.12     51.64     54       42.97     9.84     52.81     74	Meter Reading     Factor     Emission Level     Limits     O       (dBµV)     (dB)     (dBµV/m)     (dBµV/m)     (dB)       47.33     7.12     54.45     74     -19.55       44.52     7.12     51.64     54     -2.36       42.97     9.84     52.81     74     -21.19

EUT : PORTABLE SOUND CHANGER KARAOKE PLAYER WITH Model Name. : SMK1010 BLUETOOTH

Temperature :	<b>20</b> ℃	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.8V
Test Mode :	Mode 7	Polarization :	Vertical
Globa	8 Fr and		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	G AND
4804.026	47.77	7.12	54.89	74	-19.11	peak
4804.026	44.64	7.12	51.76	54	-2.24	AVG
7206.039	41.33	9.84	51.17	74	-22.83	peak
7206.039	38.34	9.84	48.18	54	-5.82	AVG

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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#### Report No.: AGC03329190302FE03 Page 38 of 68

EUT :	PORTABLE SOUND CHANGER KARAOKE PLAYER WITH BLUETOOTH	Model Name. :	SMK1010
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.8V
Test Mode :	Mode 8	Polarization :	Horizontal
ALL ALL	The Cart Strate	E F AGONACON C F	ond Gold

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	entrance © 4
47.94	7.12	55.06	74	-18.94	peak
45.01	7.12	52.13	54	-1.87	AVG
43.37	9.84	53.21	74	-20.79	peak
40.46	9.84	50.3	54	-3.7	AVG
P	(dBµV) 47.94 45.01 43.37	(dBµV)     (dB)       47.94     7.12       45.01     7.12       43.37     9.84	(dBµV)     (dB)     (dBµV/m)       47.94     7.12     55.06       45.01     7.12     52.13       43.37     9.84     53.21	(dBµV)     (dB)     (dBµV/m)     (dBµV/m)       47.94     7.12     55.06     74       45.01     7.12     52.13     54       43.37     9.84     53.21     74	Meter Reading     Factor     Emission Level     Limits     O       (dBµV)     (dB)     (dBµV/m)     (dBµV/m)     (dBµ       47.94     7.12     55.06     74     -18.94       45.01     7.12     52.13     54     -1.87       43.37     9.84     53.21     74     -20.79

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

E	UT:	PORTABLE SOUND CHANGER KARAOKE PLAYER WITH BLUETOOTH		SMK1010
Т	emperature :	<b>20</b> ℃	Relative Humidtity :	48%
Ρ	ressure :	1010 hPa	Test Voltage :	DC 5.8V
Т	est Mode :	Mode 8	Polarization :	Vertical

		and the second	U 1011-	a participation		
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	The star
4882.032	48.24	7.12	55.36	74	-18.64	peak
4882.032	45.12	7.12	52.24	54	-1.76	AVG
7323.048	41.89	9.84	51.73	74	-22.27	peak
7323.048	38.73	9.84	48.57	54	-5.43	AVG
Remark:		lin.	litte:	The Completion	ance III	Complie. B
Faster Auto		A LATE THE DAY	the starte	Q & Folglow	C aton of	

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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#### Report No.: AGC03329190302FE03 Page 39 of 68

EUT :	PORTABLE SOUND CHANGER KARAOKE PLAYER WITH BLUETOOTH	Model Name. :	SMK1010
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.8V
Test Mode :	Mode 9	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Cance O a
4960.042	47.76	7.12	54.88	74	-19.12	peak
4960.042	44.94	7.12	52.06	54	-1.94	AVG
7440.063	43.39	9.84	53.23	74	-20.77	peak
7440.063	40.56	9.84	50.4	54	-3.6	AVG

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	PORTABLE SOUND CHANGER KARAOKE PLAYER WITH BLUETOOTH	Model Name. :	SMK1010
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.8V
Test Mode :	Mode 9	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	The second secon
4960.042	48.11	7.12 👝	55.23	74	-18.77	peak
4960.042	45.09	7.12	52.21	54	-1.79	AVG
7440.063	41.72	9.84	51.56	74	-22.44	peak
7440.063	38.93	9.84	48.77	54	-5.23	AVG
Remark:		ah.		The Completion	ance I Inota	Comple B
Factor - Ante	nna Factor + Cabl	e Loss – Pre-am	nlifier			

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

**Note:** Other emissions from 8G to 25 GHz are considered as ambient noise. No recording in the test report. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

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

The 8DPSK modulation was the worst case and only the data of worst recorded in this report.

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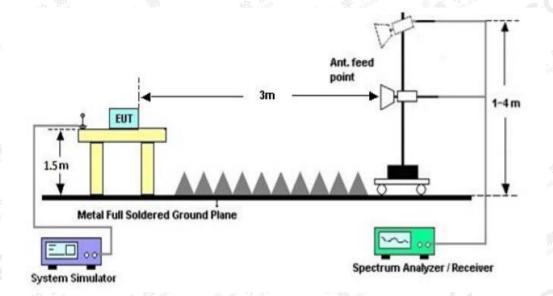
#### Report No.: AGC03329190302FE03 Page 40 of 68

# **12. BAND EDGE EMISSION**

## **12.1. MEASUREMENT PROCEDURE**

- 1. Set the EUT Work on the top, the bottom operation frequency individually.
- 2. Set SPA Start or Stop Frequency=Operation Frequency, For unrestricted band: RBW=100kHz, VBW=300kHz For restricted band: RBW=1MHz, VBW=3\*RBW
  - Center frequency = Operation frequency
- 3. The band edges was measured and recorded.

# 12.2. TEST SETUP



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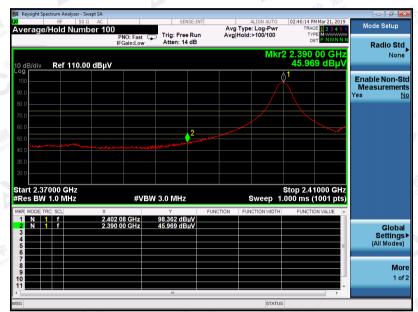


#### 12.3. TEST RESULT

#### FOR BR/EDR:

EUT :	PORTABLE SOUND CHANGER KARAOKE PLAYER WITH BLUETOOTH	Model Name. :	SMK1010
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.8V
Test Mode :	Mode 7	Polarization :	Horizontal

#### PK Value



#### **RESULT: PASS**

Note: Since the peak does not exceed the average, it is not recorded in the report

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#### Report No.: AGC03329190302FE03 Page 42 of 68

EUT :	PORTABLE SOUND CHANGER KARAOKE PLAYER WITH BLUETOOTH	Model Name. :	SMK1010
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.8V
Test Mode :	Mode 7	Polarization :	Vertical





## **RESULT: PASS**

Note: Since the peak does not exceed the average, it is not recorded in the report

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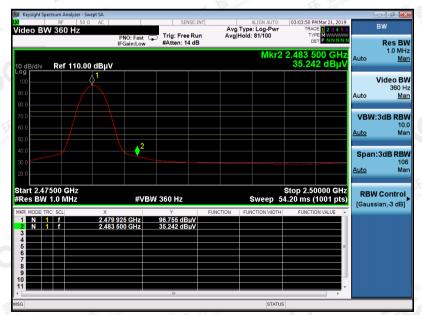
#### Report No.: AGC03329190302FE03 Page 43 of 68

PORTABLE SOUND CHANGER KARAOKE PLAYER WITH BLUETOOTH	Model Name. :	SMK1010
20 °C	Relative Humidtity :	48%
1010 hPa	Test Voltage :	DC 5.8V
Mode 9	Polarization :	Horizontal
	CHANGER KARAOKE PLAYER WITH BLUETOOTH 20 ℃ 1010 hPa	CHANGER KARAOKE PLAYER WITH BLUETOOTHModel Name. :20 °CRelative Humidtity :1010 hPaTest Voltage :

PK Value



AV Value



**RESULT: PASS** 

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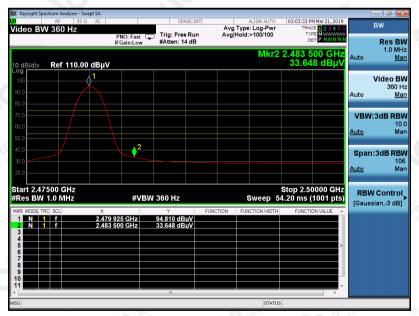
#### Report No.: AGC03329190302FE03 Page 44 of 68

EUT :	PORTABLE SOUND CHANGER KARAOKE PLAYER WITH BLUETOOTH	Model Name. :	SMK1010
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.8V
Test Mode :	Mode 9	Polarization :	Vertical





AV Value



# **RESULT: PASS**

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

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Report No.: AGC03329190302FE03 Page 45 of 68

Strength. So A=F. All test modes had been pre-tested. The 8DPSK modulation is the worst case and recorded in the report.

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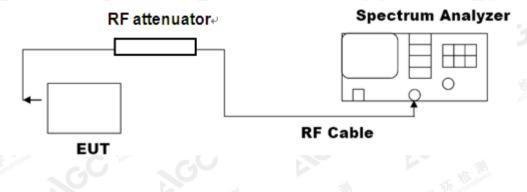
#### Report No.: AGC03329190302FE03 Page 46 of 68

# **13. NUMBER OF HOPPING FREQUENCY**

# **13.1. MEASUREMENT PROCEDURE**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz
- 4. Set the Spectrum Analyzer as RBW>=1%span, VBW>=3RBW.

# **13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)**



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#### **13.3. LIMITS AND MEASUREMENT RESULT**

TOTAL NO. OF	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
HOPPING CHANNEL	>=15	79	PASS

## TEST PLOT FOR NO. OF TOTAL CHANNELS

						-	pt SA	Analyzer - Swe		sight Spect	🎽 Key
Marker	02:56:29 PM Mar 18, 2019 TRACE 1 2 3 4 5 6	ALIGN AUTO		ISE:INT		z	AC 0000 MH		RF Δ 7	ker 1 /	a Nar
Select Marke	TYPE MWWWW DET PNNNNN	d:>100/100	Avg Hol		Atten: 30	NO: Fast 🕞 Gain:Low					
	r1 77.916 MHz -0.662 dB	ΔMł					Bm	f 20.00 d	Rei	3/div	
	1Δ2										<b>og</b> 10.0
Norm		YAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	WARAAAA	WAAN				VIIIIIII	WW	-Xr	00.0
	╎	¥₩¥¥¥¥¥¥	╏║┾║╹┨┨	┽╞╊╓╠║╅┿	┪┪╞╊╓┽┾╣┧	<u>₩₩</u> ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	<del>₩₩₩₩₩₩₩</del> ₩₩₩	∎₽₩₩₩₽₽₽₩	1 # ¥	144	10.0 20.0
De											30.0
											40.0
Fixe	Yfa-									h.	50.0 50.0
											70.0
	Span 86.00 MHz							5 GHz			
C	.267 ms (1001 pts)	Sweep 8.			300 kHz	#VBW				5 BW 1	
	FUNCTION VALUE	INCTION WIDTH	TION F	dB	Y -0.662	6 MHz (Δ)	× 77.916	<u>(Δ)</u>		ADE TRO	
Propertie				3m	2.021 dE	3 GHz	2.402 018		f	F 1	2
	E										4 5 6
Mo									F		7 8
1 0											9
					III						1
		STATUS									G

Note: The 8DPSK modulation was the worst case and only the data of worst recorded in this report.

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#### Report No.: AGC03329190302FE03 Page 48 of 68

# 14. TIME OF OCCUPANCY (DWELL TIME)

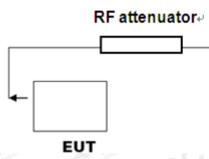
# **14.1. MEASUREMENT PROCEDURE**

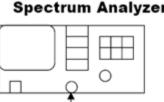
1. Place the EUT on the table and set it in transmitting mode

2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.

- 3. Set Span = zero span, centered on a hoping channel
- 4. Set the spectrum analyzer as RBW=1MHz, VBW>=RBW, Span = 0 Hz

# 14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)





**RF** Cable

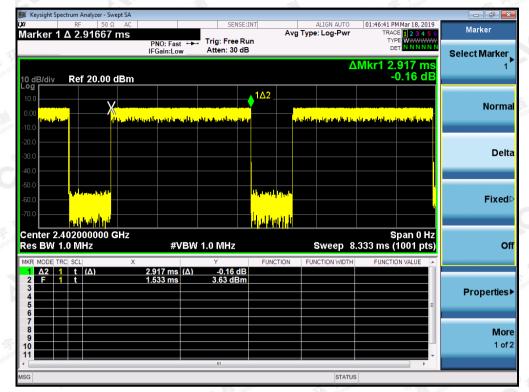
# **14.3. LIMITS AND MEASUREMENT RESULT**

	The We	G Master G	G i i	
Channel	Time of Pulse for DH5 (ms)	Period Time (s)	Sweep Time (ms)	Limit (ms)
Low	2.917	31.6	311.15	400
Middle	2.917	31.6	311.15	400
High	2.933	31.6	312.85	400

Low Channel Time 2.917\*(1600/6)/79\*31.6=311.15ms Middle Channel Time 2.917\*(1600/6)/79\*31.6=311.15ms **High Channel Time** 2.933\*(1600/6)/79\*31.6=312.85ms

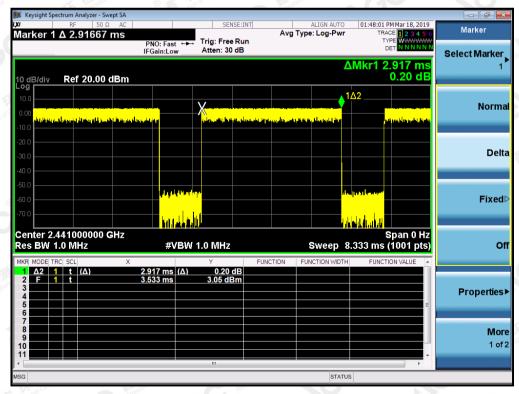
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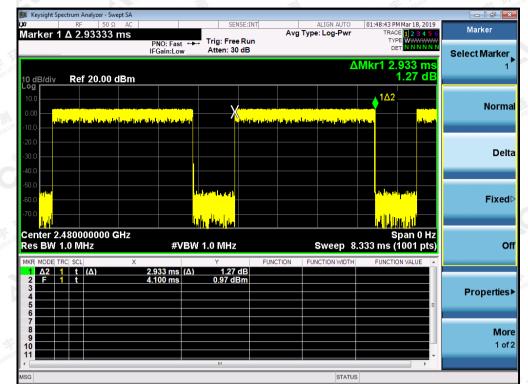
# TEST PLOT OF LOW CHANNEL

## TEST PLOT OF MIDDLE CHANNEL



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## TEST PLOT OF HIGH CHANNEL

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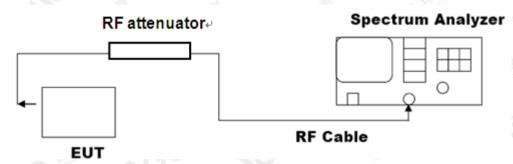
#### Report No.: AGC03329190302FE03 Page 51 of 68

# **15. FREQUENCY SEPARATION**

### 15.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
- 3. Set Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth  $(RBW) \ge 1\%$  of the span Video (or Average) Bandwidth (VBW)  $\ge RBW$ ; Sweep = auto; Detector function = peak; Trace = max hold

## 15.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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#### **15.3. LIMITS AND MEASUREMENT RESULT**

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT	
CHANNEL	KHz	KHz	RESULI	
CH00-CH01	1000	>=25 KHz or 2/3 20 dB BW	Pass	

#### Peak Search Avg Type: Log-Pw Avg|Hold:>100/100 2.403095000000 GHz Trig: Free Run Atten: 30 dB PNO: Wide IFGain:Low **Next Peal** Mkr2 2.403 095 GHz 1.007 dBm Ref 20.00 dBm 10 dB/div 2 Next Pk Right Next Pk Left Marker Delta Start 2.400000 GHz #Res BW 100 kHz Stop 2.405000 GHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz Mkr→CF 2.402 095 GHz 2.403 095 GHz 0.960 dBm 1.007 dBm Mkr→RefLv More 1 of 2

### TEST PLOT FOR FREQUENCY SEPARATION (3Mbps)

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# **16. LINE CONDUCTED EMISSION TEST**

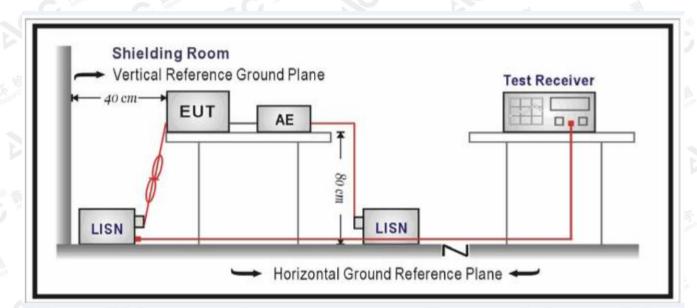
### 16.1. LIMITS OF LINE CONDUCTED EMISSION TEST

5	Fromosov	Maximum RF Line Voltage					
A G	Frequency	Q.P.( dBuV)	Average( dBuV)				
	150kHz~500kHz	66-56	56-46				
	500kHz~5MHz	56	46				
C	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 0.50 MHz.

# 16.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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Report No.: AGC03329190302FE03 Page 54 of 68

#### **16.3. 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 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.

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

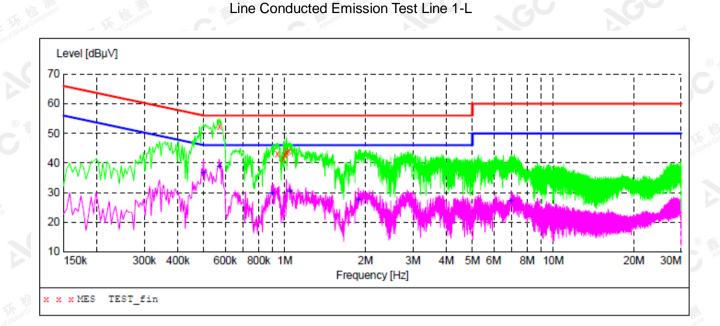
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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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#### Report No.: AGC03329190302FE03 Page 55 of 68



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

MEASUREMENT RESULT: "TEST fin"

1PM						
Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
52.40	10.3	56	3.6	QP	L1	FLO
43.00	10.4	56	13.0	QP	L1	FLO
41.60	10.4	56	14.4	QP	ь1	FLO
43.00	10.4	56	13.0	QP	L1	FLO
43.50	10.4	56	12.5	QP	ь1	FLO
44.00	10.4	56	12.0	QP	L1	FLO
	Level dBµV 52.40 43.00 41.60 43.00 43.50	Level Transd dBµV dB 52.40 10.3 43.00 10.4 41.60 10.4 43.00 10.4 43.50 10.4	Level Transd Limit dBµV dB dBµV 52.40 10.3 56 43.00 10.4 56 41.60 10.4 56 43.00 10.4 56 43.50 10.4 56	Level Transd Limit Margin dBµV dB dBµV dB 52.40 10.3 56 3.6 43.00 10.4 56 13.0 41.60 10.4 56 14.4 43.00 10.4 56 13.0 43.50 10.4 56 12.5	Level     Transd     Limit     Margin     Detector       dBμV     dB     dBμV     dB     dB     dB       52.40     10.3     56     3.6     QP       43.00     10.4     56     13.0     QP       41.60     10.4     56     14.4     QP       43.00     10.4     56     13.0     QP       43.50     10.4     56     12.5     QP	Level     Transd     Limit     Margin     Detector     Line       dBμV     dB     dBμV     dB     dB     Line       52.40     10.3     56     3.6     QP     L1       43.00     10.4     56     13.0     QP     L1       41.60     10.4     56     14.4     QP     L1       43.00     10.4     56     13.0     QP     L1       43.50     10.4     56     12.5     QP     L1

MEASUREMENT RESULT: "TEST fin2"

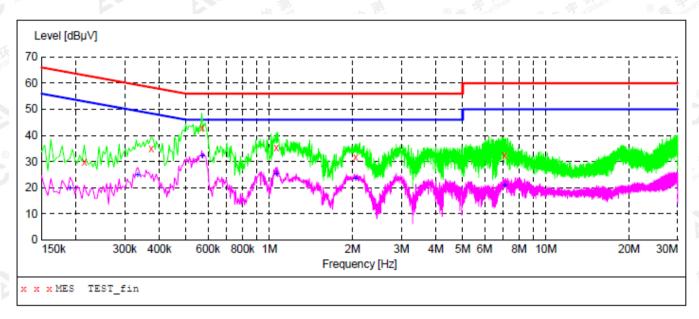
/18,	/2019 4:21	PM						
F	requency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBµV	dB	dBµV	dB			
(	0.498000	36.60	10.3	46	9.4	AV	L1	FLO
(	0.570000	38.60	10.3	46	7.4	AV	L1	FLO
(	0.894000	29.60	10.4	46	16.4	AV	L1	FLO
1	L.042000	30.30	10.4	46	15.7	AV	L1	FLO
1	L.882000	27.50	10.4	46	18.5	AV	L1	FLO
(	6.966000	27.30	10.6	50	22.7	AV	ь1	FLO

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Report No.: AGC03329190302FE03 Page 56 of 68



Line Conducted Emission Test Line 2-N

#### MEASUREMENT RESULT: "TEST fin"

 /2019 4:129 requency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.214000 0.374000 0.570000 1.058000 2.050000 7.090000	29.80 34.80 42.90 35.40 31.50 32.50	10.3 10.3 10.4 10.4 10.6	63 58 56 56 56 60	33.2 23.6 13.1 20.6 24.5 27.5	QP QP QP QP	N N N N N	FLO FLO FLO FLO FLO FLO

#### MEASUREMENT RESULT: "TEST fin2"

3/18/2019 4:12PM							
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190000	19.80	10.3	54	34.2	AV	N	FLO
0.334000	24.80	10.2	49	24.6	AV	N	FLO
0.570000	32.00	10.3	46	14.0	AV	N	FLO
1.058000	25.10	10.4	46	20.9	AV	N	FLO
2.050000	23.30	10.4	46	22.7	AV	N	FLO
7.114000	20.80	10.6	50	29.2	AV	N	FLO

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Report No.: AGC03329190302FE03 Page 57 of 68

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



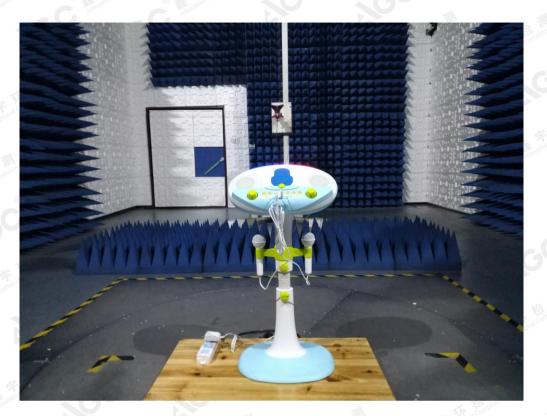
FCC RADIATED EMISSION TEST SETUP



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Report No.: AGC03329190302FE03 Page 59 of 68

# APPENDIX B: PHOTOGRAPHS OF EUT TOTAL VIEW OF EUT



#### TOP VIEW OF EUT



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Report No.: AGC03329190302FE03 Page 60 of 68

## BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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#### Report No.: AGC03329190302FE03 Page 61 of 68

## BACK VIEW OF EUT



LEFT VIEW OF EUT



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Report No.: AGC03329190302FE03 Page 62 of 68

## **RIGHT VIEW OF EUT**



VIEW OF EUT (PORT)-1



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Report No.: AGC03329190302FE03 Page 63 of 68

# VIEW OF EUT (PORT)-2



VIEW OF EUT (PORT)-3

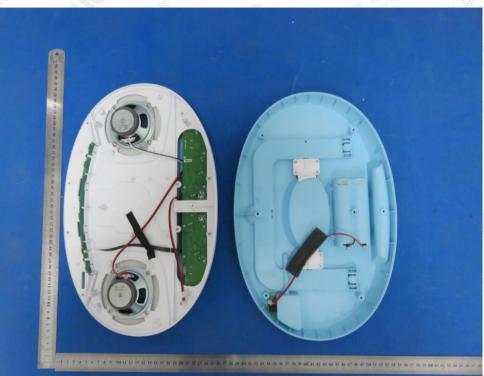


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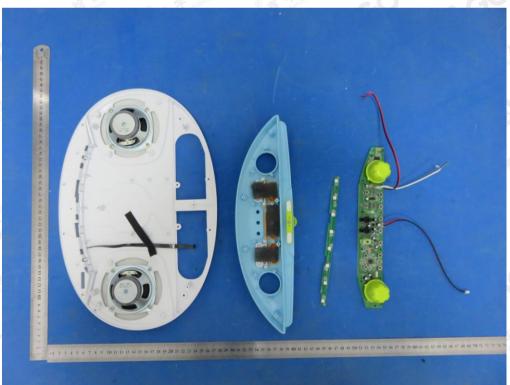


Report No.: AGC03329190302FE03 Page 64 of 68

# **OPEN VIEW OF EUT-1**



**OPEN VIEW OF EUT-2** 

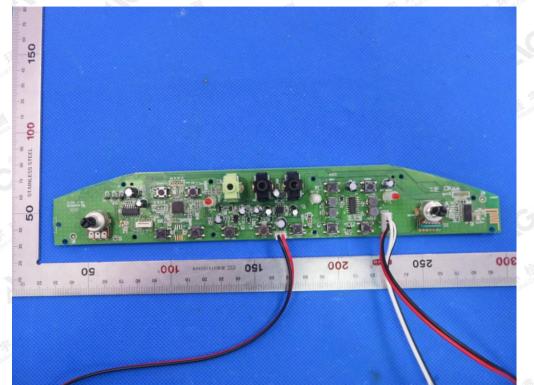


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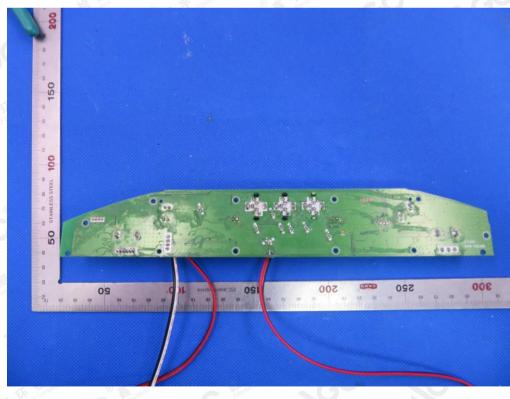


Report No.: AGC03329190302FE03 Page 65 of 68

#### INTERNAL VIEW OF EUT-1



**INTERNAL VIEW OF EUT-2** 



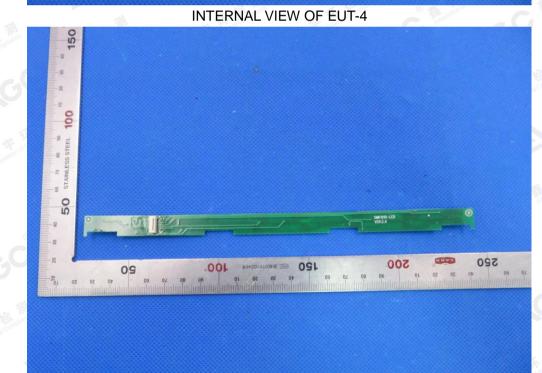
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#### Report No.: AGC03329190302FE03 Page 66 of 68



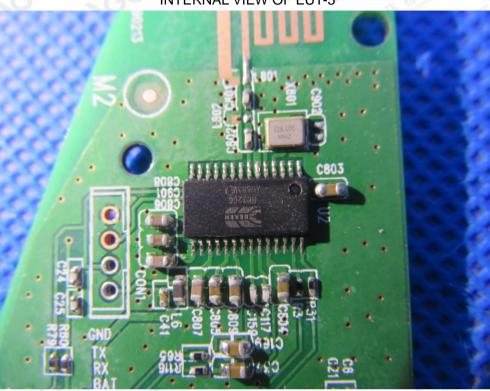
#### **INTERNAL VIEW OF EUT-3**



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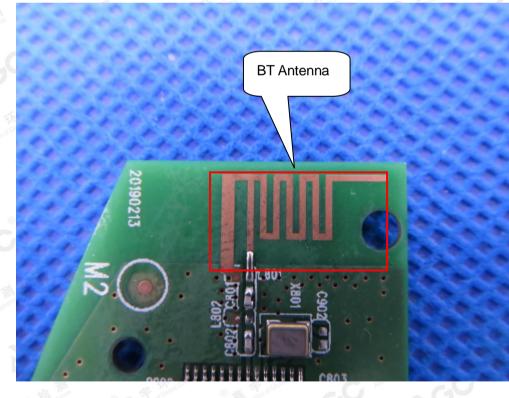


Report No.: AGC03329190302FE03 Page 67 of 68



**INTERNAL VIEW OF EUT-5** 

**INTERNAL VIEW OF EUT-6** 



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Report No.: AGC03329190302FE03 Page 68 of 68

ADAPTER



# ----END OF REPORT----

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