

Page 1 of 68

FCC Test Report

Report No.: AGC03329180501FE03

FCC ID	: 2AAXO-SML385U	
APPLICATION PURPOSE	: Original Equipment	
PRODUCT DESIGNATION	: CD+G/MP3+G KARAOKE PLAYER WITH BLUETOOT	Ή
BRAND NAME	: Singing Machine	
MODEL NAME	: See Page 4	
CLIENT	: The Singing Machine Company, Inc.	
DATE OF ISSUE	: Jun. 13, 2018	
STANDARD(S) TEST PROCEDURE(S)	: FCC Part 15 Subpart C Section 15.249	
REPORT VERSION	: V1.0	
	Complian	

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Report No.: AGC03329180501FE03 Page 2 of 68

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jun. 13, 2018	Valid	Initial release

Report Revise Record

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Report No.: AGC03329180501FE03 Page 3 of 68

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION 2.2. TABLE OF CARRIER FREQUENCYS	5 5
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	6
5. SYSTEM TEST CONFIGURATION	8
5.1. CONFIGURATION OF EUT SYSTEM 5.2. EQUIPMENT USED IN EUT SYSTEM 5.3. SUMMARY OF TEST RESULTS	8 9
6. TEST FACILITY	
7.TEST METHOD	
8. TEST EQUIPMENT LIST	
9. RADIATED EMISSION	12
9.1TEST LIMIT 9.2. MEASUREMENT PROCEDURE 9.3. TEST SETUP 9.4. TEST RESULT	12 13 15
10. BAND EDGE EMISSION	17
10.1. MEASUREMENT PROCEDURE 10.2 TEST SETUP 10.3 RADIATED TEST RESULT	39 39 40
11. 20DB BANDWIDTH	44
11.1. MEASUREMENT PROCEDURE 11.2. TEST SET-UP 11.3. LIMITS AND MEASUREMENT RESULTS	44 44 44
12. FCC LINE CONDUCTED EMISSION TEST	
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	52 52 53
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	55
APPENDIX B: PHOTOGRAPHS OF EUT	58

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Report No.: AGC03329180501FE03 Page 4 of 68

Applicant The Singing Machine Company, Inc. Address 6301 NW 5th Way, Suite 2900, Fort Lauderdale, FL 33309, USA Manufacturer SHENZHEN JUNLAN ELECTRONIC LTD No.277 PingKui Road, Shijing Community, Pingshan Street, Pingshan New Address District, Shenzhen, China CD+G/MP3+G KARAOKE PLAYER WITH BLUETOOTH Product Designation Brand Name Singing Machine Test Model SML385U SML385UBK, SML385UW, SML385BT, SML385BTW, SML385BTBK, SML392BT, SML392BTBK, SML392BTW, SML385BTXX, Series Model SML392BTXX, SML385UXX (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 May 30, 2018 to Jun. 04, 2018 Deviation None Condition of Test Sample Normal AGCRT-US-BR/RF **Report Template**

1. VERIFICATION OF CONFORMITY

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 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By

Jorhan Wand

Jonhen Wang(Wang Yonghuan) Jun. 04, 2018

well chang

Reviewed By

Cool Cheng(Cheng Mengguo)

Jun. 13, 2018

Forvesto en

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

Jun. 13, 2018

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Report No.: AGC03329180501FE03 Page 5 of 68

2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-1.83dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V2.1+EDR
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE ⊡GFSK
Number of channels	79 for BR/EDR
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	0dBi
Power Supply (by adapter 1)	MODEL: JY009058150BA-UL INPUT:100-240V 50/60Hz 0.5A Max OUTPUT: 5.8V 1.5A
Power Supply (by adapter 2)	MODEL: GKYPS0150058UL1 INPUT:100-240V 50/60Hz 0.5A OUTPUT: 5.8V 1500mA
Note: The EUT is equipp	ed with two adapters, both have been assessed and only the worst test data of

adapter 1 recorded in this report.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
	0	2402MHz
Hannare @ # Hannard Colonal Co		2403MHz
GC The C		
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
The second contraction of the second	40	2442 MHz
in CO		The the comment
	77	2479 MHz
the the the the the termine	78	2480 MHz
C and a solution		- 112)

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Report No.: AGC03329180501FE03 Page 6 of 68

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm 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 dB

- Uncertainty of Radiated Emission below 1GHz, $Uc = \pm 3.9 \text{ dB}$
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

NO.	TEST MODE DESCRIPTION
C The Ind Clobe	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
5 on a close	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
8 6	Middle channel 8DPSK
9	High channel 8DPSK
10	BT Link

4. DESCRIPTION OF TEST MODES

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Report No.: AGC03329180501FE03 Page 7 of 68

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ion of Give		Software Setting	The the materice	The avenue
RDA Host Contro	ller Tester - [COM2, BD ADDR: A	E:2D:22:11:58:76. Local Name: R	DA bt. Core revision: 12]	
File View Window	LinkControl Auth SSP LinkPolicy Setti	ng Testing TCT Data TestCases Profil	e Heln	_ 7 ×
<u>rice</u> ries <u>mindos</u>	Entropolition Addi Dor Entropolity Secti	ng Testing 101 Data (Estrases Libili	e Werb	
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				microelectronic
Application Trace HCI Tra	ce Baseband Test		X	
Timestamp				^
12:54:13:265, 31/07.	Hop select: 0 🔹	PRBS init: 111111111	1M 👻	, value: 0x0000f1ff
12:54:13:281, 31/07.			1	_Register, Command Sta
12:54:13:375, 31/07. 12:54:13:375, 31/07.		Syncword: E23A1A33CI	20744E	, value: 0x0000ffff Register, Command Sta
12:54:13:484, 31/07.		Syncword: E23A1A33CI	207846	. value: 0x0000ffff
12:54:13:484, 31/07.				_Register, Command Sta
12:54:13:593, 31/07.		Packet type: DH1/2DH1	 TX Test 	, value: 0x0000ffff
12:54:13:609, 31/07. 12:54:13:703, 31/07.			<u> </u>	_Register, Command Sta value: 0x0000ffff
12:54:13:718, 31/07.		nacket length: 1B	Stop Test	Register, Command Sta
12:54:13:812, 31/07.		packet length: 18	Stup Test	, value: 0x00004224
12:54:13:828, 31/07.				_Register, Command Sta
12:54:13:921, 31/07. 12:54:13:921, 31/07.		101 AM address: 0	Close	, value: 0x000043e1 Register, Command Sta
12:54:13:921, 31/07.				_hegister, Command Sta , value: 0x00004bb5
12:54:14:031, 31/07.				_Register, Command Sta
12:54:14:140, 31/07.				, value: 0x00000079
12:54:14:140, 31/07. 12:54:14:250, 31/07.				_Register, Command Sta , value: 0x00000000
12:54:14:265, 31/07.				Register, Command Sta
12:54:14:359, 31/07.		Length: 10, Memory type: APB SPI mem	pory, Length: 1, address: 0x000002	
12:54:14:375, 31/07.		Length: 4, Number Of HCI Command Pac		
12:54:14:468, 31/07. 12:54:14:484, 31/07.		Length: 10, Memory type: APB SPI mem Length: 4, Number Of HCI Command Pac		
	Ak nor command complete Event	Lengen. 4, Humber of her command rat	Recs. 1, command Rame. ICI_#FICE_F.	ni_negister, command Sta
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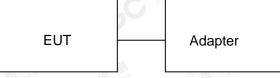


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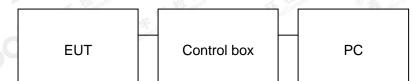
Report No.: AGC03329180501FE03 Page 8 of 68

5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
	CD+G/MP3+G KARAOKE PLAYER WITH BLUETOOTH	Singing Machine	SML385U	GEUT
2	IPOD	APPLE	A1367	A.E
3	Control box	DOFLY	LY-USB-TIL V2.2	A.E
4	Adapter 1	J.POWER	JY009058150BA-UL	Accessory
5	Adapter 2	GUANGKAIYUAN	GKYPS0150058UL1	Accessory
6	USB Cable	N/A	1m unshielded	A.E
7	USB Cable	N/A	1m unshielded	A.E
8	Audio out Cable	N/A	1.2m unshielded	Accessory
9	AUX in Cable	N/A	1m unshielded	A.E
10	Speaker	Haiyi	A3901	A.E.
11 🧹	MIC	Singing Machine	N/A C	Accessory
12	U-DISK	Kingston	SDA10/16GB	A.E

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Report No.: AGC03329180501FE03 Page 9 of 68

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.215	Bandwidth	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		
Test Firm Registration Number	682566		
Description Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited Voluntary Laboratory Accreditation program, NVLAP Code 600153-0			

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7. TEST METHOD

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

8. 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.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
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	. .	Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	МХТ	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	МХТ	🔹 🔷 RS1	R006	June 6, 2017	June 5, 2018
Filter (2.4-2.483GHz)	Micro-tronics	087	20	Jun.20, 2017	Jun.19, 2018

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9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50 6 6	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency	Distance	Field Str	engths Limit
(MHz)	Meters	μ V/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	E England Con Call
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3 South States	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(µV)/m

Remark: (1) Emission level dB μ V = 20 log Emission level μ 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.

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Report No.: AGC03329180501FE03 Page 13 of 68

9.2. MEASUREMENT PROCEDURE

- The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 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)
- The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 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.: AGC03329180501FE03 Page 14 of 68

Spectrum 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
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
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

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

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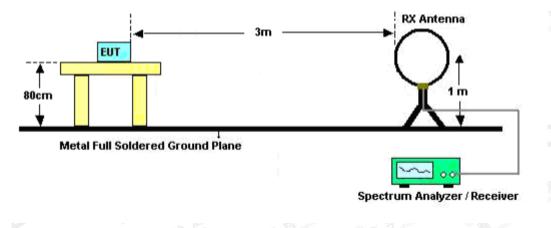




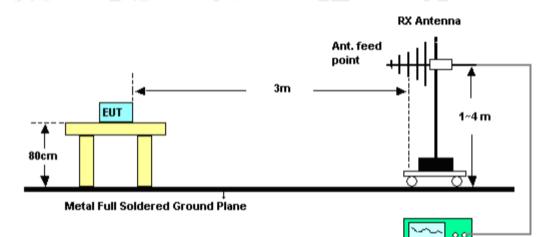
Report No.: AGC03329180501FE03 Page 15 of 68

9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



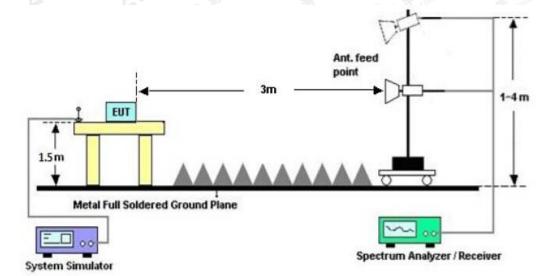
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Spectrum Analyzer / Receiver



Report No.: AGC03329180501FE03 Page 16 of 68



RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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Report No.: AGC03329180501FE03 Page 17 of 68

9.4. TEST RESULT FOR BR/EDR (Worst modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

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

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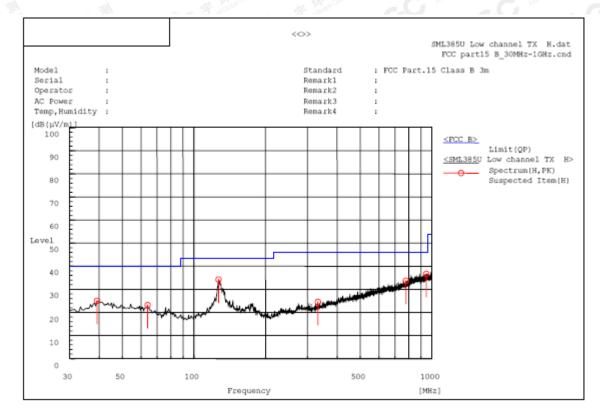


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Report No.: AGC03329180501FE03 Page 18 of 68

RADIATED EMISSION BELOW 1GHz

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

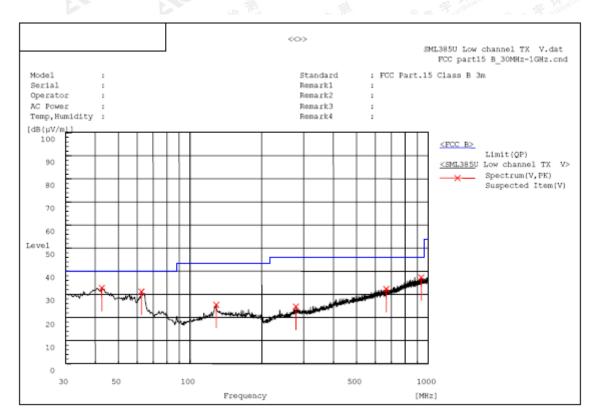


A. Suspected List:

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
39.215	н	7.7	17.4	25.1	40.0	14.9	Pass	200.0	228.4
63.950	н	7.5	15.7	23.2	40.0	16.8	Pass	200.0	299.1
127.000	н	18.2	16.0	34.2	43.5	9.3	Pass	200.0	299.1
332.155	Н	6.3	18.2	24.5	46.0	21.5	Pass	200.0	77.0
777.870	Н	5.5	28.2	33.7	46.0	12.3	Pass	200.0	179.0
947.620	н	6.1	30.6	36.7	46.0	9.3	Pass	200.0	309.5

RESULT: PASS

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

A. Suspected List:

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
42.610	v	15.4	17.4	32.8	40.0	7.2	Pass	100.0	141.5
62.495	v	15.3	15.9	31.2	40.0	8.8	Pass	100.0	289.6
128.940	v	9.4	16.1	25.5	43.5	18.0	Pass	150.0	20.8
278.320	v	7.0	17.7	24.7	46.0	21.3	Pass	100.0	196.8
666.320	v	6.5	25.8	32.3	46.0	13.7	Pass	100.0	45.7
935.010	v	6.9	30.5	37.4	46.0	8.6	Pass	100.0	262.0

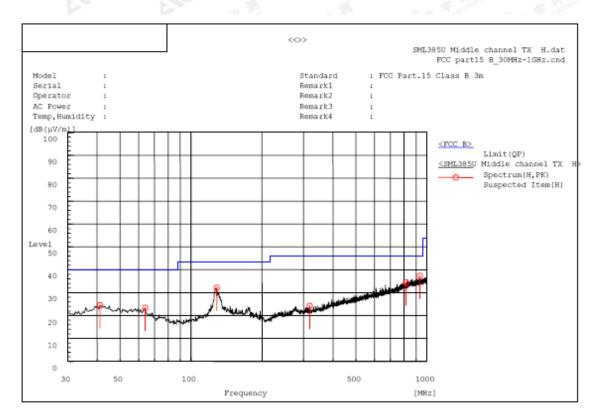
RESULT: PASS

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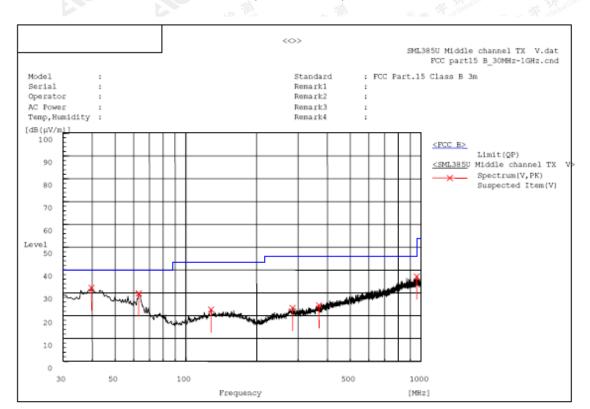
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

A. Suspected List:

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
41.155	Н	7.1	17.4	24.5	40.0	15.5	Pass	100.0	244.7
63.950	Н	7.7	15.7	23.4	40.0	16.6	Pass	100.0	321.4
128.455	Н	16.0	16.1	32.1	43.5	11.4	Pass	100.0	268.6
318.575	Н	6.4	17.8	24.2	46.0	21.8	Pass	100.0	336.9
815.215	Н	5.4	29.0	34.4	46.0	11.6	Pass	100.0	72.4
934.040	Н	6.8	30.5	37.3	46.0	8.7	Pass	100.0	122.4

RESULT: PASS

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
39.700	v	14.8	17.4	32.2	40.0	7.8	Pass	200.0	71.9
62.980	v	13.9	15.9	29.8	40.0	10.2	Pass	150.0	251.7
127.970	v	6.6	16.1	22.7	43.5	20.8	Pass	100.0	92.7
284.140	v	5.7	17.7	23.4	46.0	22.6	Pass	200.0	71.9
368.045	v	5.0	19.6	24.6	46.0	21.4	Pass	200.0	181.3
958.290	v	6.5	30.7	37.2	46.0	8.8	Pass	150.0	251.7

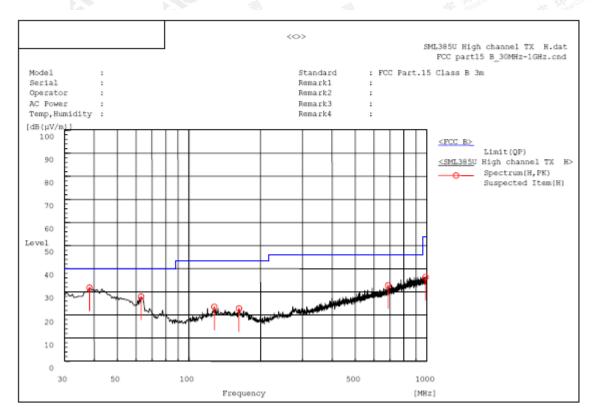
RESULT: PASS

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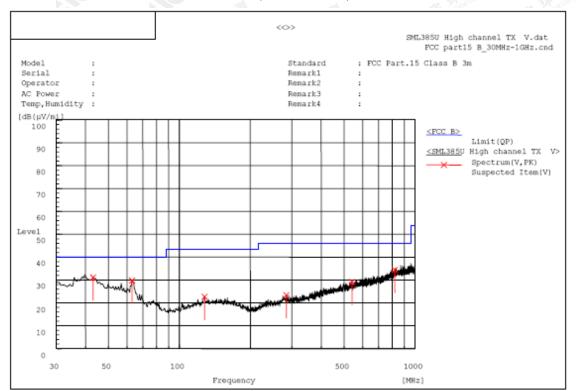
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
38.245	Н	14.6	17.2	31.8	40.0	8.2	Pass	200.0	264.1
62.980	н	12.0	15.9	27.9	40.0	12.1	Pass	200.0	338.5
127.970	Н	7.4	16.1	23.5	43.5	20.0	Pass	100.0	71.6
162.405	Н	6.2	16.6	22.8	43.5	20.7	Pass	200.0	231.0
687.660	Н	6.6	26.2	32.8	46.0	13.2	Pass	100.0	189.7
987.390	н	5.4	31.0	36.4	54.0	17.6	Pass	100.0	71.6

RESULT: PASS

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
43.095	v	13.7	17.4	31.1	40.0	8.9	Pass	200.0	71.9
62.980	v	13.9	15.9	29.8	40.0	10.2	Pass	150.0	251.7
127.970	v	6.6	16.1	22.7	43.5	20.8	Pass	100.0	92.7
284.140	v	5.7	17.7	23.4	46.0	22.6	Pass	200.0	71.9
540.220	v	5.5	23.7	29.2	46.0	16.8	Pass	100.0	92.7
820.550	v	5.3	29.1	34.4	46.0	11.6	Pass	150.0	35.3

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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Report No.: AGC03329180501FE03 Page 24 of 68

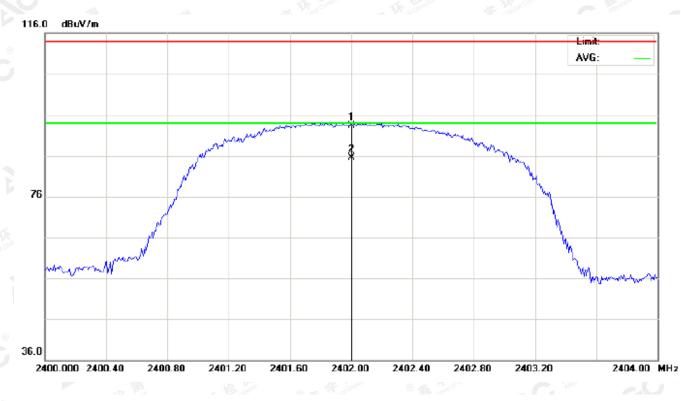
RADIATED EMISSION ABOVE 1GHz

FOR BR/EDR

(Worst modulation: GFSK)

For Fundamental

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



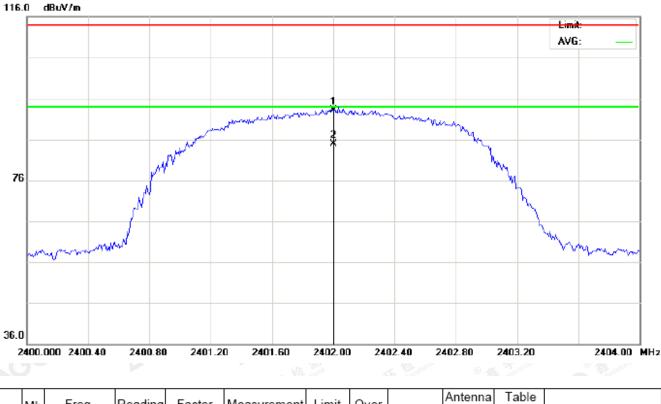
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	83.05	10.32	93.37	114.00	-20.63	peak			
2	*	2402.000	75.10	10.32	85.42	94.00	-8.58	AVG	100	55	

RESULT: PASS

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Report No.: AGC03329180501FE03 Page 25 of 68



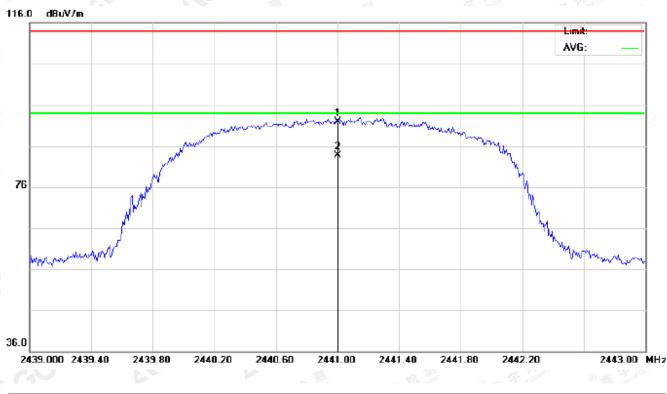
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
-	-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2402.000	82.79	10.32	93.11	114.00	-20.89	peak			
2	*	2402.000	74.64	10.32	84.96	94.00	-9.04	AVG	100	339	

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

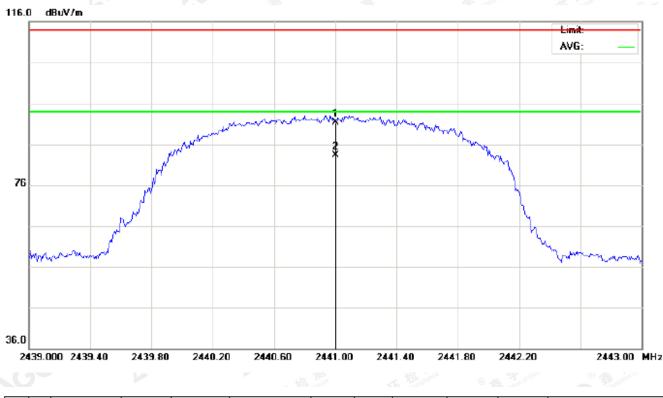
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2441.000	81.63	10.36	91.99	114.00	-22.01	peak			
2	*	2441.000	73.44	10.36	83.80	94.00	-10.20	AVG	100	49	

RESULT: PASS

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Report No.: AGC03329180501FE03 Page 27 of 68



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	80.94	10.36	91.30	114.00	-22.70	peak			
2	*	2441.000	72.93	10.36	83.29	94.00	-10.71	AVG	100	327	

RESULT: PASS

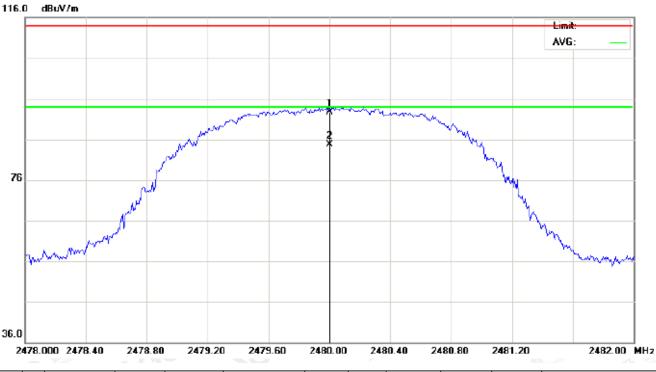
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Report No.: AGC03329180501FE03 Page 28 of 68



RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

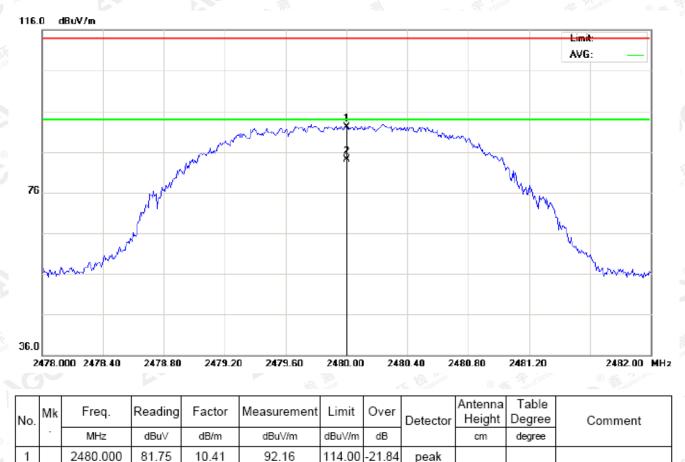
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2480.000	82.23	10.41	92.64	114.00	-21.36	peak			
2	*	2480.000	74.31	10.41	84.72	94.00	-9.28	AVG	100	63	

RESULT: PASS

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Report No.: AGC03329180501FE03 Page 29 of 68



RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL

RESULT: PASS

2480.000

73.69

10.41

1

2

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

84.10

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

94.00

-9.90

AVG

100

345

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Report No.: AGC03329180501FE03 Page 30 of 68

Field strength of the fundamental signal

1Mbps Result:

Peak value

Limit	t	ement	easurer		Factor	•	Readin Level	equency
Buv/ı	(v/m)	(dBuv/ı		(dB/m)	v)	(dBuv	(MHz)
114	w _o ,	37	93.37	Atter tallo	10.32	5	83.05	2402
114		11	93.11		10.32	9	82.79	2402
114		99	91.99		10.36	3	81.63	2441
114	-	30	91.30		10.36	4	80.94	2441
114	C the sal	64	92.64		10.41	3	82.23	2480
114		16	92.16	The sto	10.41	5	81.75	2480
114 114		30 64	91.30 92.64		10.36 10.41	4 3	80.94 82.23	2441 2480

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	75.10	10.32	85.42	94	-8.58	Horizontal	
2402	74.64	10.32	84.96	94	-9.04	Vertical	
2441	73.44	10.36	83.80	94	-10.20	Horizontal	
2441	72.93	10.36	83.29	94	-10.71	Vertical	
2480	74.31	10.41	84.72	94	-9.28	Horizontal	
2480	73.69	10.41	84.10	94	-9.90	Vertical	

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Report No.: AGC03329180501FE03 Page 31 of 68

2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	82.57	10.32	92.89	114	-21.11	Horizontal	
2402	82.25	10.32	92.57	114	-21.43	Vertical	
2441	81.06	10.36	91.42	114	-22.58	Horizontal	
2441	80.55	10.36	90.91	114	-23.09	Vertical	
2480	81.70	10.41	92.11	114	-21.89	Horizontal	
2480	81.27	10.41	91.68	114	-22.32	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	74.78	10.32	85.10	94	-8.90	Horizontal	
2402	74.10	10.32	84.42	94	-9.58	Vertical	
2441	72.99	10.36	83.35	94	-10.65	Horizontal	
2441	72.54	10.36	82.90	94	-11.10	Vertical	
2480	73.76	10.41	84.17	94	-9.83	Horizontal	
2480	73.27	10.41	83.68	94	-10.32	Vertical	

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Report No.: AGC03329180501FE03 Page 32 of 68

3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	82.15	10.32	92.47	114	-21.53	Horizontal	
2402	81.78	10.32	92.10	114	-21.90	Vertical	
2441	80.75	10.36	91.11	114	-22.89	Horizontal	
2441	80.07	10.36	90.43	114	-23.57	Vertical	
2480	81.30	10.41	91.71	114	-22.29	Horizontal	
2480	80.82	10.41	91.23	114	-22.77	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	74.34	10.32	84.66	94	-9.34	Horizontal	
2402	73.67	10.32	83.99	94	-10.01	Vertical	
2441	72.51	10.36	82.87	94	-11.13	Horizontal	
2441	72.15	10.36	82.51	94	-11.49	Vertical	
2480	73.46	10.41	83.87	94	-10.13	Horizontal	
2480	72.83	10.41	83.24	94	-10.76	Vertical	

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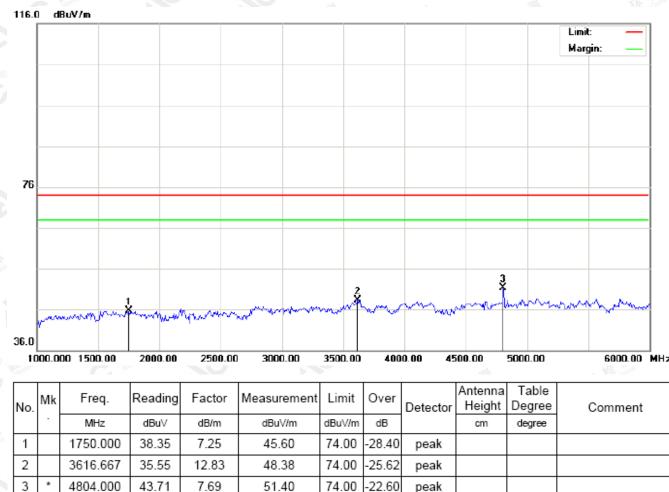
Report No.: AGC03329180501FE03 Page 33 of 68

FOR BR/EDR

(Worst modulation: GFSK)

For Harmonics

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



RESULT: PASS

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peak



Report No.: AGC03329180501FE03 Page 34 of 68



RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

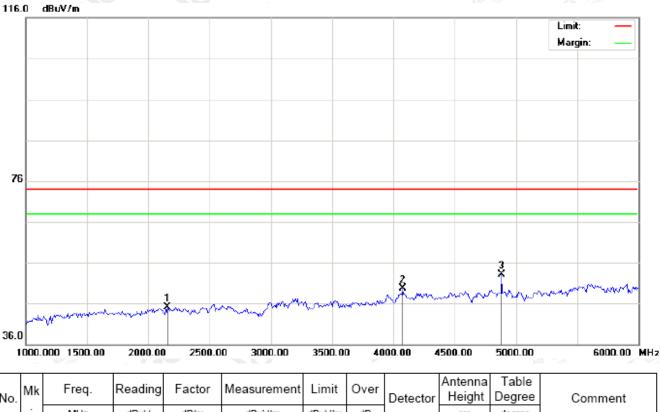
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2233.333	35.55	10.14	45.69	74.00	-28.31	peak			
2		3433.333	35.04	12.05	47.09	74.00	-26.91	peak			
3	*	4804.000	45.05	7.69	52.74	74.00	-21.26	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2158.333	35.08	10.05	45.13	74.00	-28.87	peak			
2		4075.000	35.69	13.94	49.63	74.00	-24.37	peak			
3	*	4882.000	45.16	7.89	53.05	74.00	-20.95	peak			

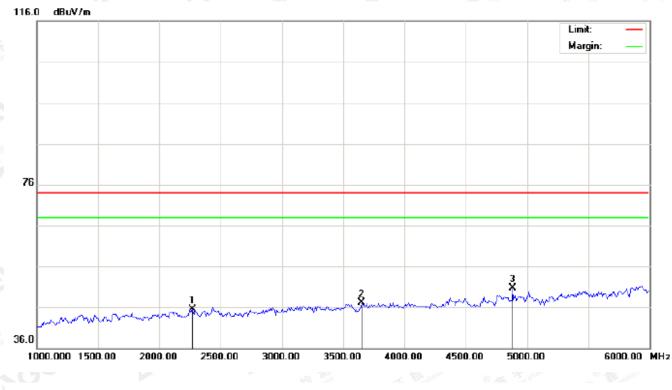
RESULT: PASS

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Report No.: AGC03329180501FE03 Page 36 of 68



RADIATED EMISSION TEST- (
RADIATED EMISSION TEST- (()-N/III)I)I E (.HAN	

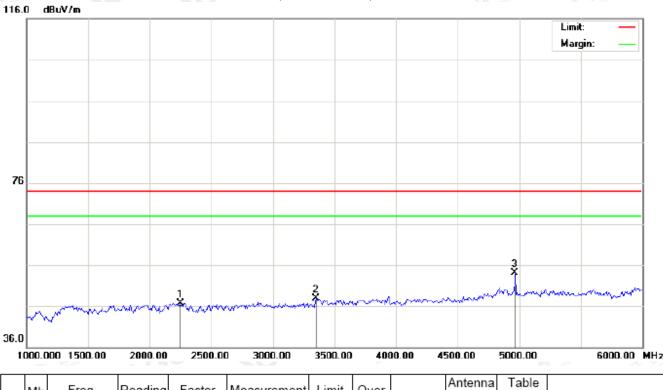
No.	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
1		2266.667	35.33	10.17	45.50	74.00	-28.50	peak			
2		3650.000	34.06	13.03	47.09	74.00	-26.91	peak			
3	*	4882.000	42.89	7.89	50.78	74.00	-23.22	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

N	o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment]
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∨/m	dB		cm	degree		
-	1		2250.000	36.63	10.15	46.78	74.00	-27.22	peak				1
	2		3350.000	35.87	11.97	47.84	74.00	-26.16	peak				1
	3	*	4960.000	45.10	8.09	53.19	74.00	-20.81	peak]

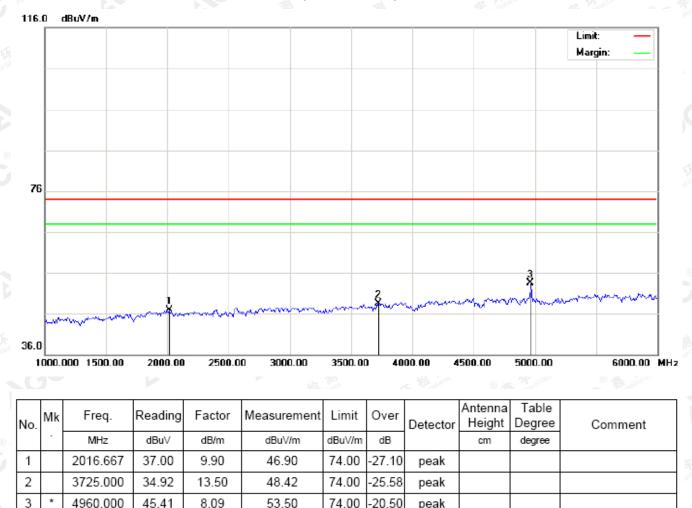
RESULT: PASS

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Report No.: AGC03329180501FE03 Page 38 of 68



RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. 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.

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peak

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Report No.: AGC03329180501FE03 Page 39 of 68

10. BAND EDGE EMISSION

10.1. MEASUREMENT PROCEDURE

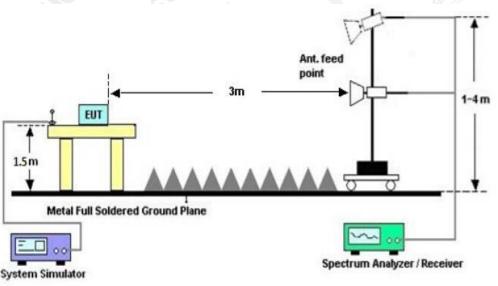
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start frequenc	y(MHz)		Stop frequency(MH	z)
2200	The The second	not C Stratuto	2405	SC -
2478	Global C	GO	2500	
Alle				2000

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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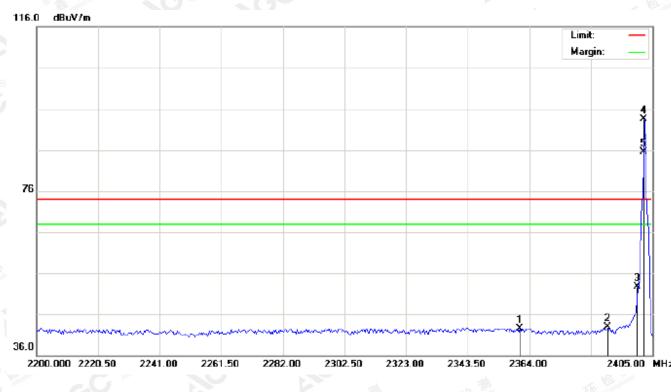
Report No.: AGC03329180501FE03 Page 40 of 68

10.3 RADIATED TEST RESULT

FOR BR/EDR

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



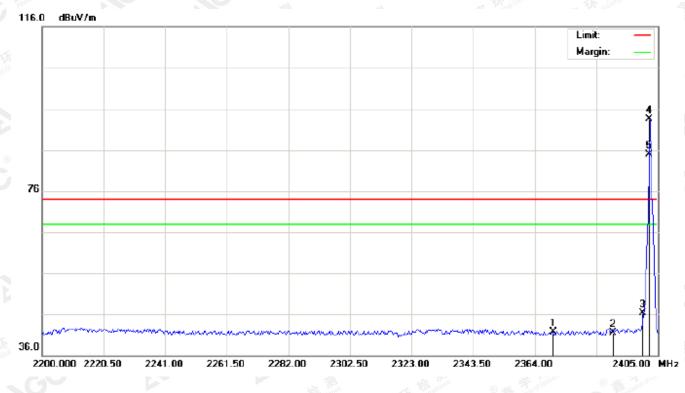
No	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2360.925	32.16	10.28	42.44	74.00	-31.56	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	83.22	10.32	93.54	74.00	19.54	peak			
5	Х	2402.000	75.10	10.32	85.42	74.00	11.42	AVG	100	56	

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Report No.: AGC03329180501FE03 Page 41 of 68



TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

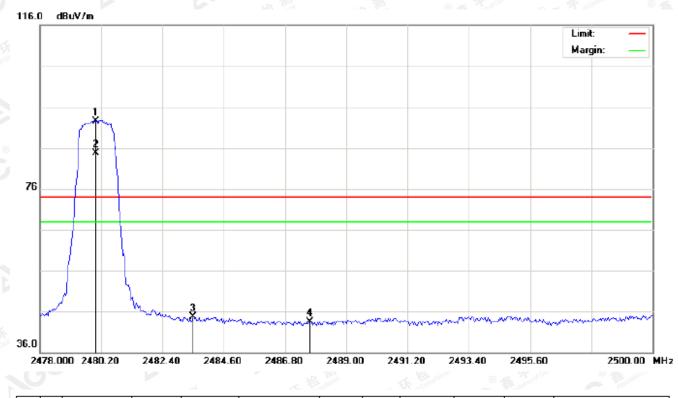
No	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
а.		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2370.150	31.50	10.29	41.79	74.00	-32.21	peak			
2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	83.09	10.32	93.41	74.00	19.41	peak			
5	Х	2402.000	74.58	10.32	84.90	74.00	10.90	AVG	100	335	

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Report No.: AGC03329180501FE03 Page 42 of 68



TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

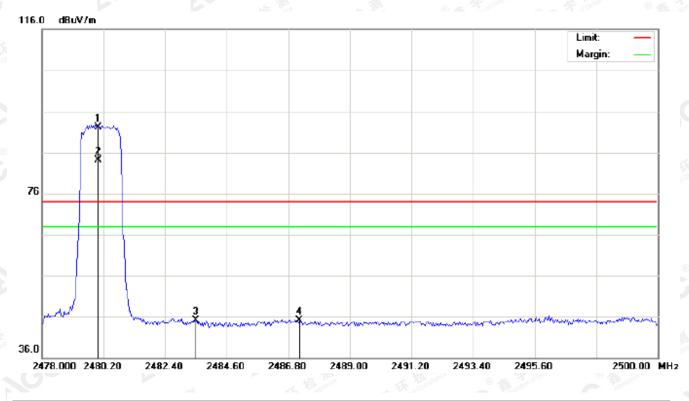
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
[1	*	2480.000	82.15	10.41	92.56	74.00	18.56	peak			
	2	Х	2480.000	74.23	10.41	84.64	74.00	10.64	AVG	100		
[3		2483.500	34.19	10.41	44.60	74.00	-29.40	peak			
	4		2487.680	33.12	10.42	43.54	74.00	-30.46	peak			

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Report No.: AGC03329180501FE03 Page 43 of 68



TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	81.75	10.41	92.16	74.00	18.16	peak			
2	Х	2480.000	73.69	10.41	84.10	74.00	10.10	AVG	100	332	
3		2483.500	34.76	10.41	45.17	74.00	-28.83	peak			
4		2487.203	34.77	10.42	45.19	74.00	-28.81	peak			

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

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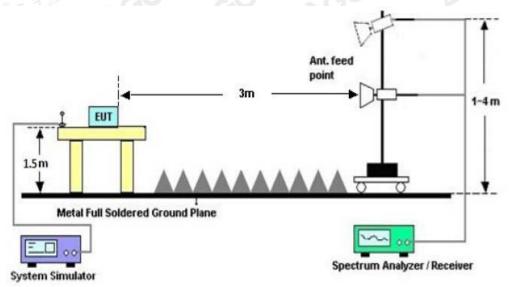
Report No.: AGC03329180501FE03 Page 44 of 68

11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel
- RBW \geq 1% of the 20 dB bandwidth, VBW \geq 3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

FOR BR/EDR

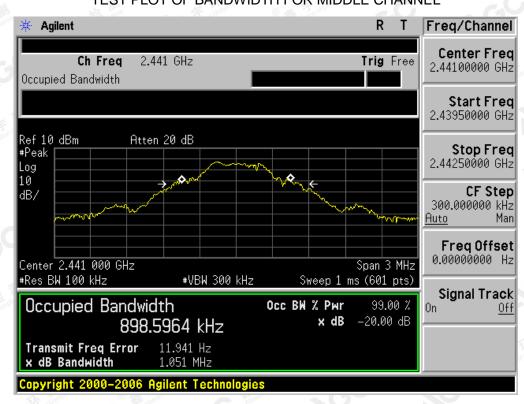
BLUET	OOTH 1MBPS LIN	ITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Test Data (MHz))	Decult				
		99%OBW (MHz)	-20dB BW(MHz)	Result				
Const Const C Alexandra	Low Channel	0.915	1.077	PASS				
N/A	Middle Channel	0.899	1.051	PASS				
	High Channel	0.915	1.055	PASS				

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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BLUET	OOTH 2MBPS LIN	ITS AND MEASU	REMENT RESULT				
	Measurement Result						
Applicable Limits		D 1/					
		99%OBW (MHz)	-20dB BW(MHz)	Result			
The the manual of the manual	Low Channel	1.067	1.196	PASS			
N/A	Middle Channel	1.081	1.206	PASS			
	High Channel	1.096	1.131	PASS			

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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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Aller	litze	Å.	na Malle	IN COUL
BLUET	OOTH 3MBPS LIN	MITS AND MEASU	REMENT RESULT	
		Measure	ement Result	
Applicable Limits		Desult		
		99%OBW (MHz)	-20dB BW(MHz)	Result
The the man	Low Channel	1.086	1.157	PASS
N/A	Middle Channel	1.117	1.208	PASS
	High Channel	1.062	1.212	PASS
	110-	-100	M. No.	Alle Alle

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



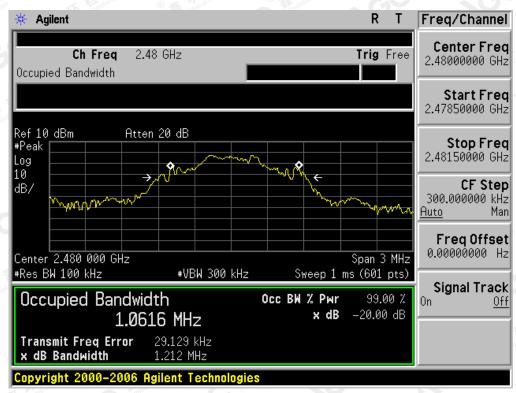
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

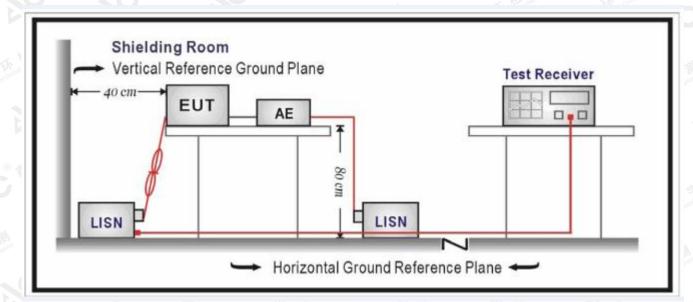
Francisco	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	56	46					
5MHz~30MHz	60	50					

Note:

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

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

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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Report No.: AGC03329180501FE03 Page 52 of 68

12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received 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.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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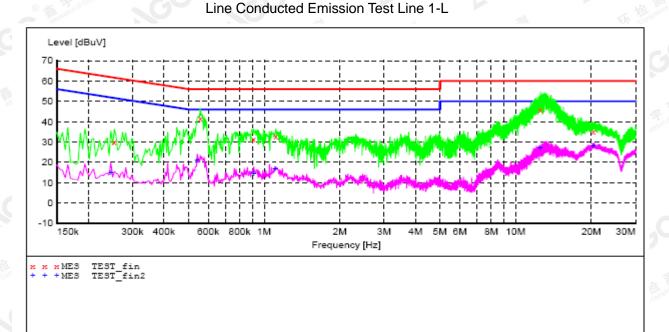
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Report No.: AGC03329180501FE03 Page 53 of 68

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter 1(worst case)

FOR BR/EDR



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.254000 0.558000 0.910000 1.114000 12.550000 20.366000	29.90 41.70 31.20 33.00 45.80 35.00	10.1 9.9 10.1 10.1 10.0 9.5	62 56 56 60 60	31.7 14.3 24.8 23.0 14.2 25.0	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO FLO

MEASUREMENT RESULT:

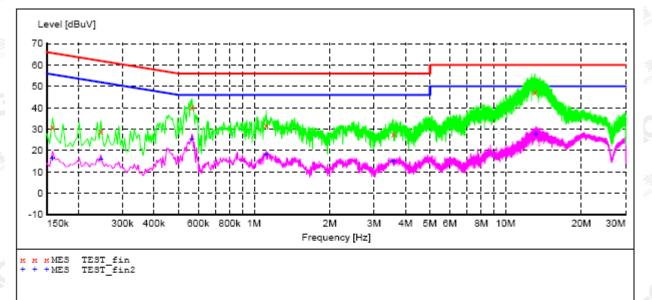
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.246000 0.542000 0.910000 1.106000 12.518000	14.90 21.10 14.70 16.70 27.00	10.1 9.9 10.1 10.1 10.0	52 46 46 50	24.9 31.3 29.3 23.0	AV AV	L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO
20.366000	28.30	9.5	50	21.7	AV	L1	FLO

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Report No.: AGC03329180501FE03 Page 54 of 68



Line Conducted Emission Test Line 2-N

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.158000 0.246000 0.566000 1.118000 3.578000 13.082000	31.00 29.20 40.10 31.70 27.80 47.20	10.0 10.1 9.9 10.1 10.0 9.8	66 62 56 56 56 60	34.6 32.7 15.9 24.3 28.2 12.8	QP QP QP QP QP QP	N N N N N	FLO FLO FLO FLO FLO FLO

MEASUREMENT RESULT:

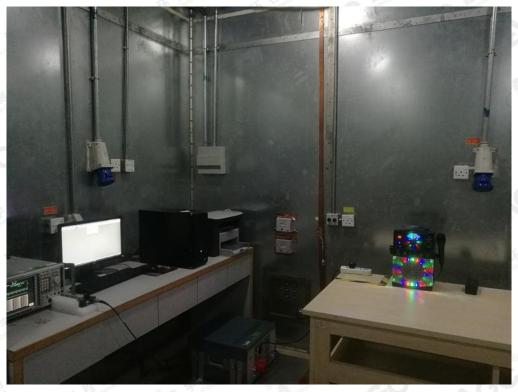
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.158000	16.50 16.00	10.0 10.1	56 52		AV AV	N N	FLO FLO
0.566000	25.40	9.9	46		AV	N	FLO
1.118000 3.578000	18.30 15.20	10.1	46 46	27.7 30.8	AV AV	N N	FLO FLO
13.206000	27.80	9.8	50	22.2	AV	N	FLO

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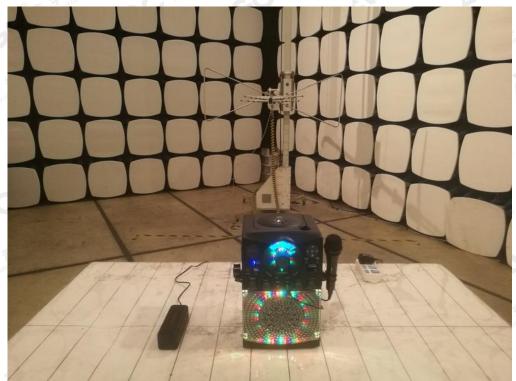


Report No.: AGC03329180501FE03 Page 55 of 68

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



FCC RADIATED EMISSION TEST SETUP

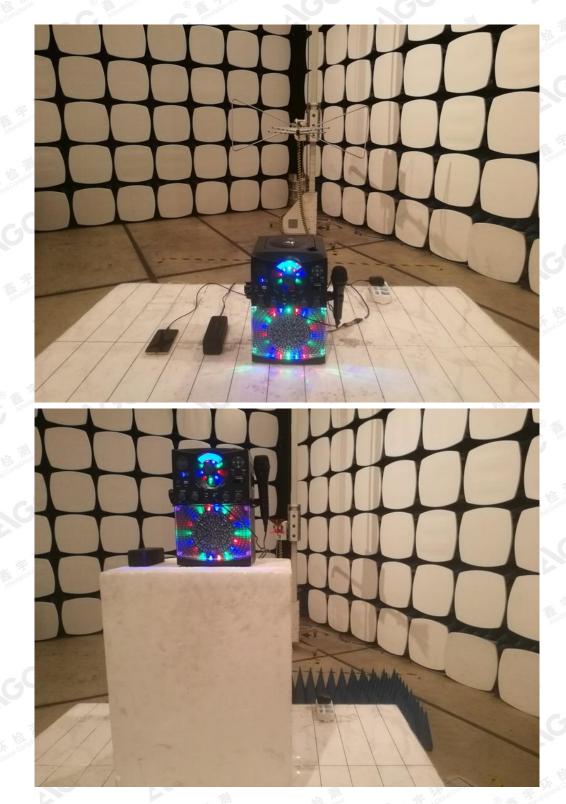


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Report No.: AGC03329180501FE03 Page 57 of 68



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Report No.: AGC03329180501FE03 Page 58 of 68

APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT

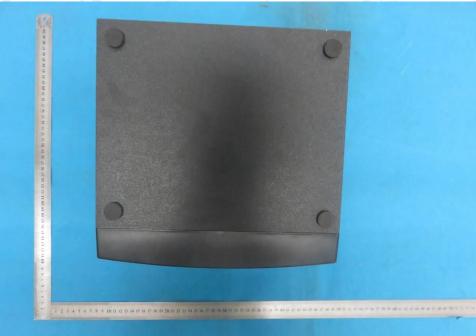


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Report No.: AGC03329180501FE03 Page 59 of 68

BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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Report No.: AGC03329180501FE03 Page 60 of 68

BACK VIEW OF EUT



LEFT VIEW OF EUT



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55

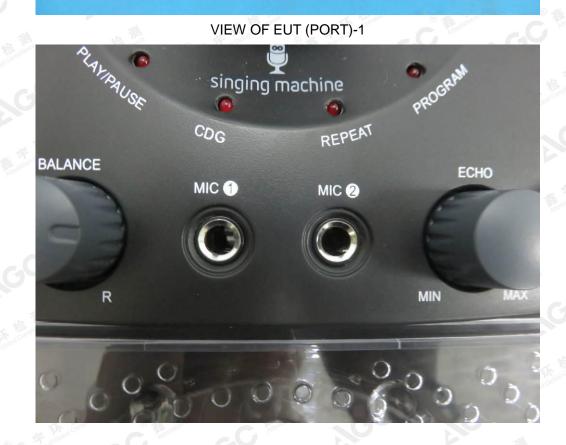
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Report No.: AGC03329180501FE03 Page 61 of 68

RIGHT VIEW OF EUT





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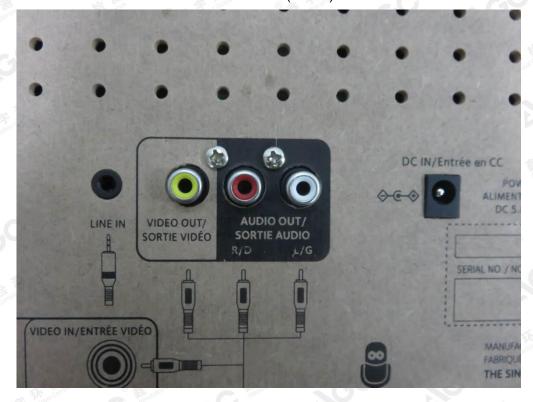


Report No.: AGC03329180501FE03 Page 62 of 68

VIEW OF EUT (PORT)-2



VIEW OF EUT (PORT)-3



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Report No.: AGC03329180501FE03 Page 63 of 68

OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1



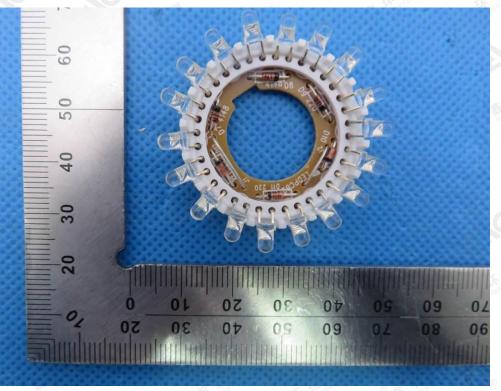
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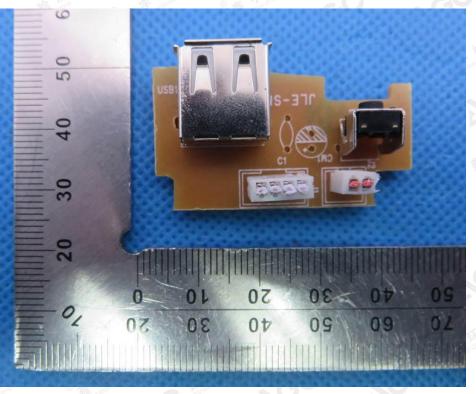


Report No.: AGC03329180501FE03 Page 64 of 68

INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3

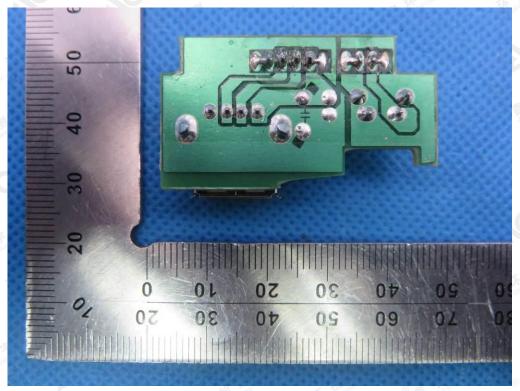


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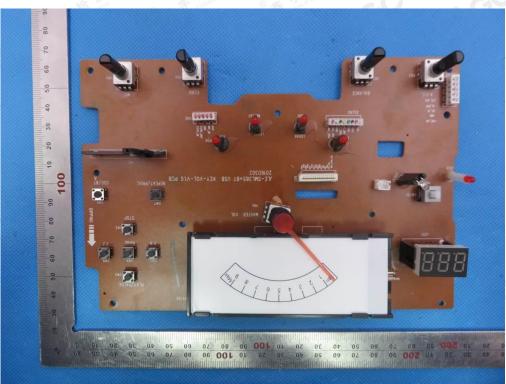


Report No.: AGC03329180501FE03 Page 65 of 68

INTERNAL VIEW OF EUT-4



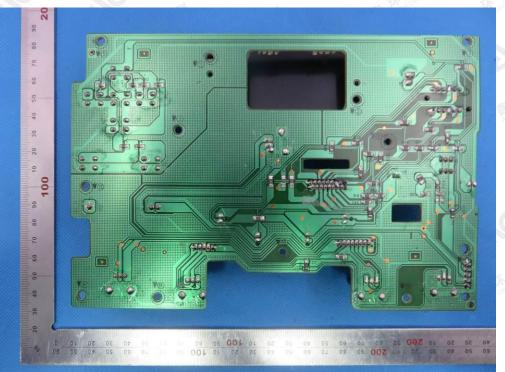
INTERNAL VIEW OF EUT-5



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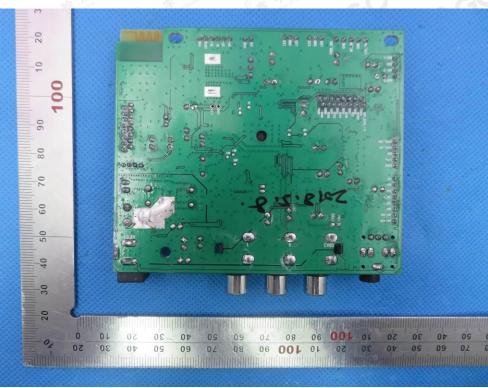


Report No.: AGC03329180501FE03 Page 66 of 68



INTERNAL VIEW OF EUT-6

INTERNAL VIEW OF EUT-7



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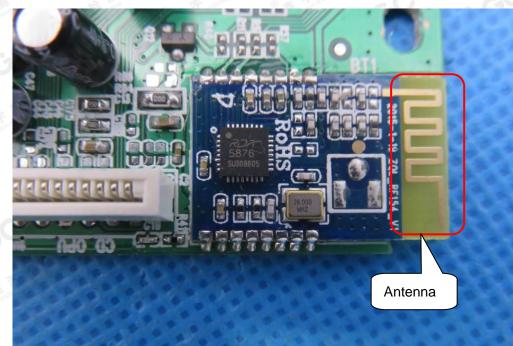


Report No.: AGC03329180501FE03 Page 67 of 68

INTERNAL VIEW OF EUT-8



INTERNAL VIEW OF EUT-9



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Report No.: AGC03329180501FE03 Page 68 of 68

VIEW OF ADAPTER 1



VIEW OF ADAPTER 2



----END OF REPORT----

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