

FCC Test Report

Report No.: AGC00159180615FE03

FCC ID : QIF-B78-G

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Music Bottle Bluetooth Speaker

BRAND NAME : N/A

MODEL NAME : B78-G, B78

CLIENT : My Music Group Limited

DATE OF ISSUE : Jul. 17, 2018

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15 Subpart C Section 15.249

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Attestation of Global Compliance

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	pliones 1 Safety	Jul. 17, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	My Music Group Limited				
Address	Room No.2026, Global Logistics Service Center, China South City, Pinghu Town, Longgang, SZ, China.				
Manufacturer	Dongguan Fulun Electronic Co.,Limited				
Address	4-8/F, Building B, Xinbosheng Industrial Park, No.5 Xinyuan S Rd, Tangxia, Dongguan.CN				
Product Designation	Music Bottle Bluetooth Speaker				
Brand Name	N/A				
Test Model	B78-G				
Series Model	B78				
Difference description	All the same except for the model name.				
Date of test	Jun. 22, 2018 to Jul. 16, 2018				
Deviation	None None				
Condition of Test Sample	Normal				
Report Template	AGCRT-US-BR/RF				
28 110					

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		Harry	Zhang		
Global Compliance	Henry Zhang	(Zhang Zh	nuorui)	Jul. 16, 2018	
Reviewed By		cvg	cheng	· [1] (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	To f
® ## Formula Compa	Cool Cheng(C	heng Mer	ngguo)	Jul. 17, 2018	
Approved By		Fore	y ci		
O A The sun of	Forrest Lei(Authori	Lei Yongg zed Office		Jul. 17, 2018	

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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
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V1.0
Software Version	V1.5
Antenna Designation	PCB Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V by battery
Note: The USB port only	used for charging and can't be used to transfer data with PC.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
Miller July od Clock	0	2402MHz
, SGO	The state of the s	2403MHz
The Manual Control of the Control of	The accompanies of the state of	
8 Manual of Country Co	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
TA PORTOR OF THE STATE OF THE S	CG Francisco	CO DO DO
or Girmin C. C.	77	2479 MHz
	78	2480 MHz



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 = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
® Martin Tool cools	Low channel GFSK
2 2	Middle channel GFSK
3	High channel GFSK
· 4 不是那	Low channel π /4-DQPSK
S 5 to d Clobs	Middle channel π /4-DQPSK
G 6	High channel π /4-DQPSK
7	Low channel 8DPSK
Filling 8 8 Filling	Middle channel 8DPSK
9 Paris	High channel 8DPSK
10	BT Link with charging
11th Complete	BT Link

Note:

- 1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The EUT used fully-charged battery when tested.





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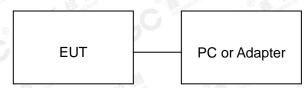


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5. SYSTEM TEST CONFIGURATION

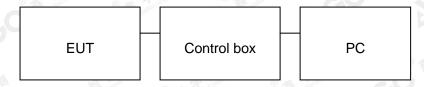
5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



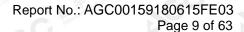
Note: Owing to the EUT has own battery, testing may be performed while PC or adapter removed.

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark	
1 环	Music Bottle Bluetooth Speaker	Dongguan Fulun	B78-G	EUT	
2	Battery	GJ	653535	Accessory	
3	PC	APPLE	A1465	[®] A.E	
4	Control box	BEKEN	N/A	A.E	
5	Adapter	IPRO	NTR-S01	A.E	
6	USB Cable 1	N/A	1m unshielded	A.E	
7	USB Cable 2	N/A	1m unshielded	A.E	
8	IPOD	APPLE	A1367	A.E	





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

Title .				
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 by National 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, 2018	Jun.19, 2019
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, 2018	Jun.19, 2019
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, 2018	Jun.19, 2019
Antenna	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	C AMO	Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Filter (2.4-2.483GHz)	Micro-tronics	087	- C	Jun.20, 2018	Jun.19, 2019



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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	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency	Distance	Field Strengths 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)	电视 不是心					
1.705 ~ 30	30	30	Company of Circumstance of Cir					
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 The state of the	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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9.2. MEASUREMENT PROCEDURE

- 1. 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)
- 2. 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)
- 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.
- 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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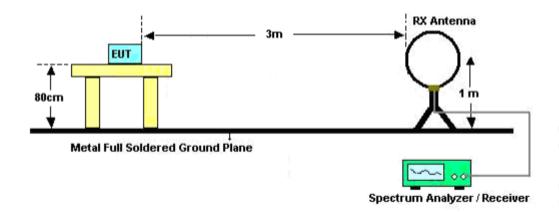
The following table is the setting of spectrum analyzer and receiver.

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

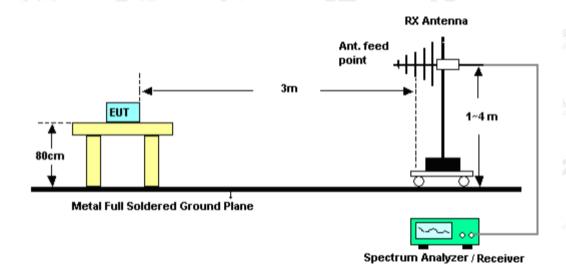


9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



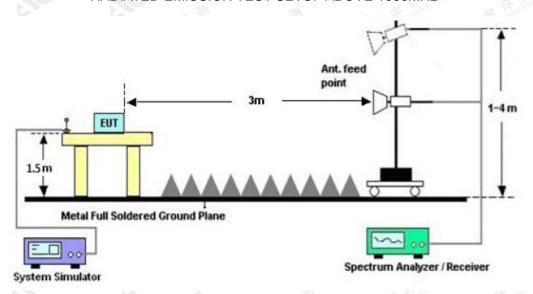
RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

FOR BR/EDR

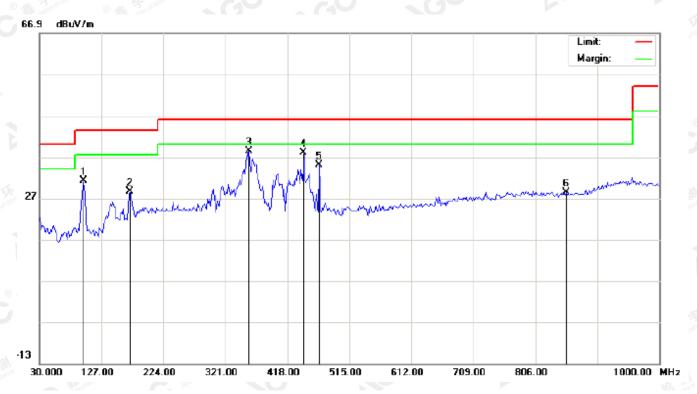
(Worst modulation: 8DPSK)

RADIATED EMISSION BELOW 30MHz

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

RADIATED EMISSION BELOW 1GHz

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

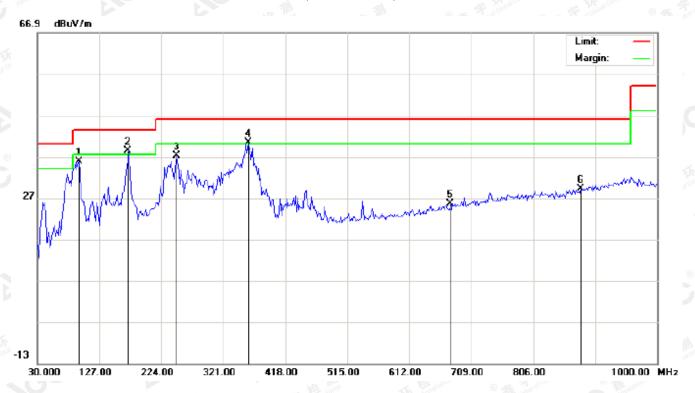


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		99.5167	21.12	10.00	31.12	43.50	-12.38	peak			
2		172.2666	17.85	10.78	28.63	43.50	-14.87	peak			
3	*	358.1831	19.57	18.79	38.36	46.00	-7.64	peak			
4		443.8666	17.69	20.40	38.09	46.00	-7.91	peak			
5		468.1166	14.16	20.79	34.95	46.00	-11.05	peak			
6		854.5000	0.89	27.43	28.32	46.00	-17.68	peak			

RESULT: PASS



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

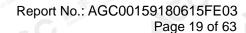


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		94.6667	34.29	1.42	35.71	43.50	-7.79	peak			
2	*	172.2666	23.87	14.56	38.43	43.50	-5.07	peak			
3		248.2500	23.45	13.73	37.18	46.00	-8.82	peak			
4	ļ	359.8000	21.64	18.80	40.44	46.00	-5.56	peak			
5		676.6666	1.03	24.56	25.59	46.00	-20.41	peak			
6		880.3667	1.18	28.10	29.28	46.00	-16.72	peak			

RESULT: PASS

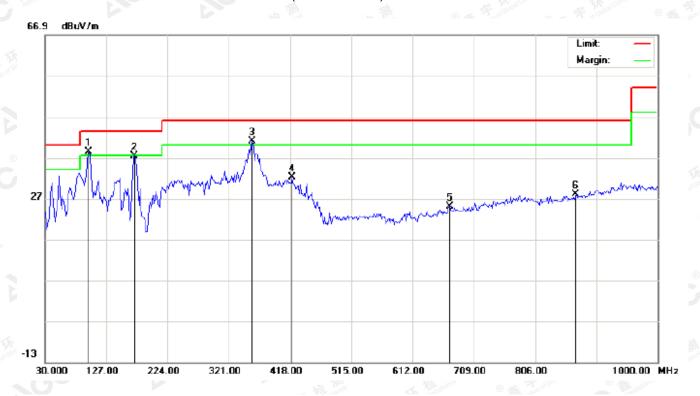
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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





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



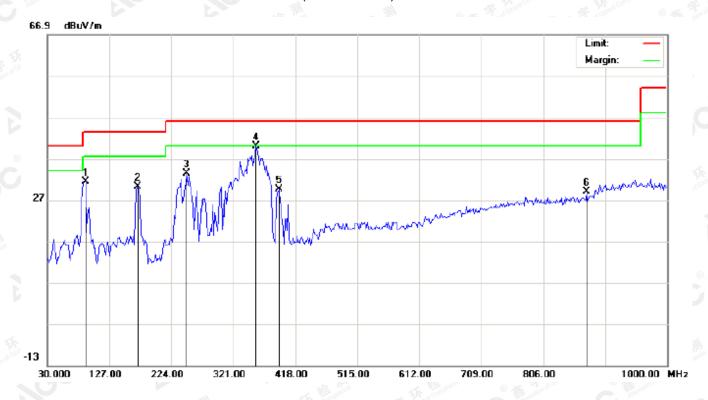
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	İ	99.5167	28.33	10.00	38.33	43.50	-5.17	peak			
2		172.2666	26.62	10.78	37.40	43.50	-6.10	peak			
3	*	358.1832	22.18	18.79	40.97	46.00	-5.03	peak			
4		421.2332	12.56	19.72	32.28	46.00	-13.72	peak			
5		670.2000	0.68	24.40	25.08	46.00	-20.92	peak			
6		870.6666	0.23	27.85	28.08	46.00	-17.92	peak			

RESULT: PASS

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



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		89.8166	26.13	5.31	31.44	43.50	-12.06	peak			
2		172.2666	15.69	14.56	30.25	43.50	-13.25	peak			
3		248.2500	19.58	13.73	33.31	46.00	-12.69	peak			
4	*	356.5667	21.23	18.78	40.01	46.00	-5.99	peak			
5		392.1333	10.58	19.02	29.60	46.00	-16.40	peak			
6		873.8999	1.07	27.93	29.00	46.00	-17.00	peak			

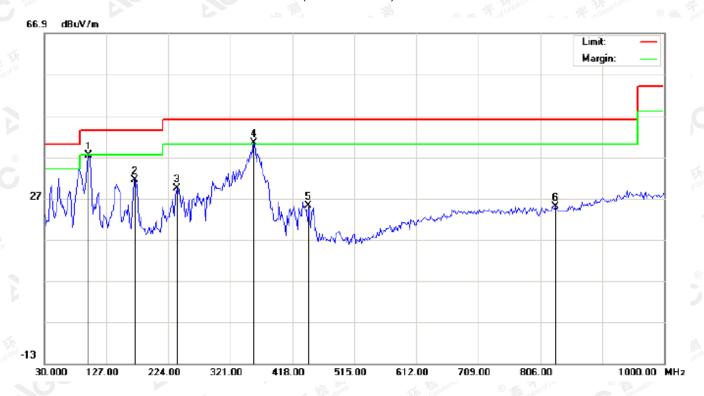
RESULT: PASS

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

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



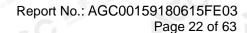
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL



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		99.5167	27.33	10.00	37.33	43.50	-6.17	peak			
2		172.2666	20.62	10.78	31.40	43.50	-12.10	peak			
3		236.9333	21.08	8.23	29.31	46.00	-16.69	peak			
4	*	358.1831	21.68	18.79	40.47	46.00	-5.53	peak			
5		443.8666	4.78	20.40	25.18	46.00	-20.82	peak			
6		830.2500	-2.37	27.31	24.94	46.00	-21.06	peak			

RESULT: PASS

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



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		89.8164	30.13	5.31	35.44	43.50	-8.06	peak			
2		172.2666	21.19	14.56	35.75	43.50	-7.75	peak			
3		248.2500	25.58	13.73	39.31	46.00	-6.69	peak			
4	*	356.5667	22.23	18.78	41.01	46.00	-4.99	peak			
5		437.3999	6.76	20.21	26.97	46.00	-19.03	peak			
6		873.8999	0.57	27.93	28.50	46.00	-17.50	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.



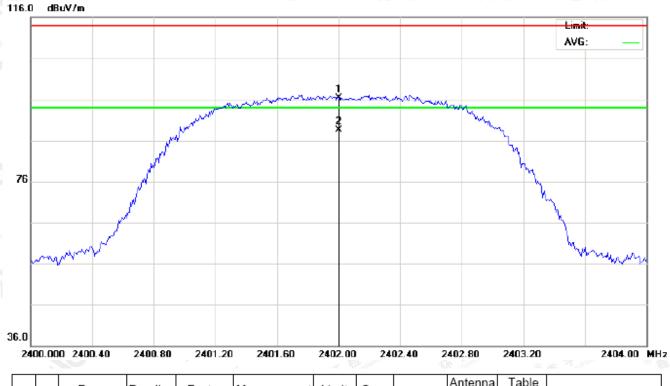
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RADIATED EMISSION ABOVE 1GHz FOR BR/EDR

(Worst modulation: 8DPSK)

For Fundamental

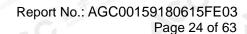
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



1	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Lable Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
	1		2402.000	86.06	10.32	96.38	114.00	-17.62	peak			
	2	*	2402.000	78.12	10.32	88.44	94.00	-5.56	AVG	100	214	

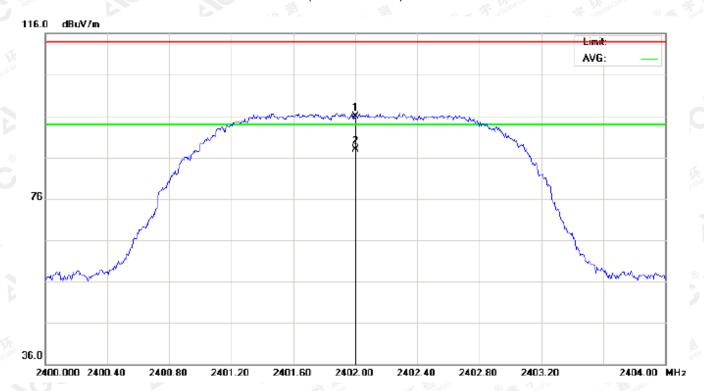
RESULT: PASS

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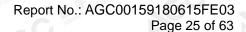
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2402.000	85.60	10.32	95.92	114.00	-18.08	peak			
2	*	2402.000	77.66	10.32	87.98	94.00	-6.02	AVG	100	329	

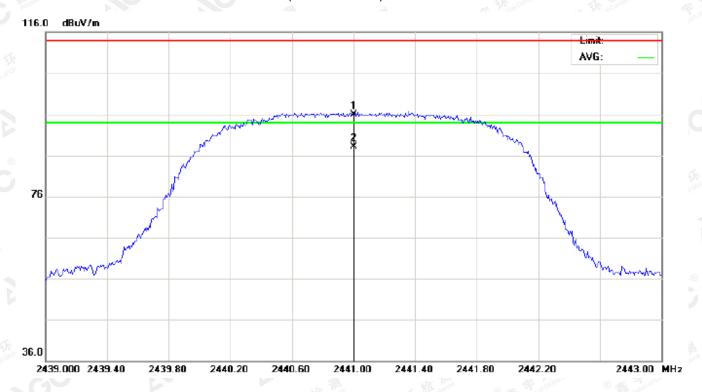
RESULT: PASS

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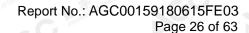
RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



N	о.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
<i>-</i>	1		2441.000	85.63	10.36	95.99	114.00	-18.01	peak			
- 2	2	*	2441.000	77.68	10.36	88.04	94.00	-5.96	AVG	100	217	

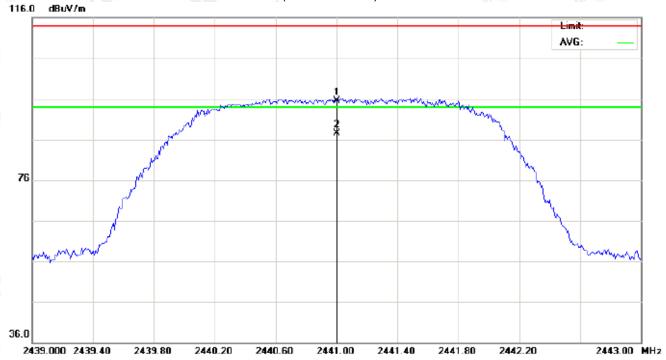
RESULT: PASS

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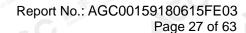
RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



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		2441.000	85.22	10.36	95.58	114.00	-18.42	peak			
2	*	2441.000	77.14	10.36	87.50	94.00	-6.50	AVG	100	327	

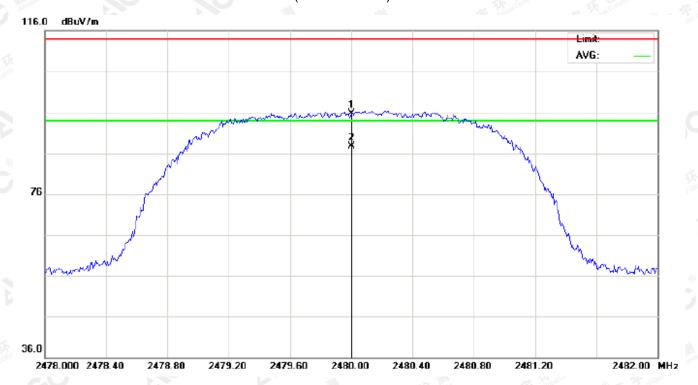
RESULT: PASS

The results showing this jest 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 attp://www.agc.gent.com.





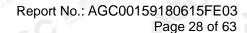
RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



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	85.31	10.41	95.72	114.00	-18.28	peak			
2	*	2480.000	77.32	10.41	87.73	94.00	-6.27	AVG	100	219	

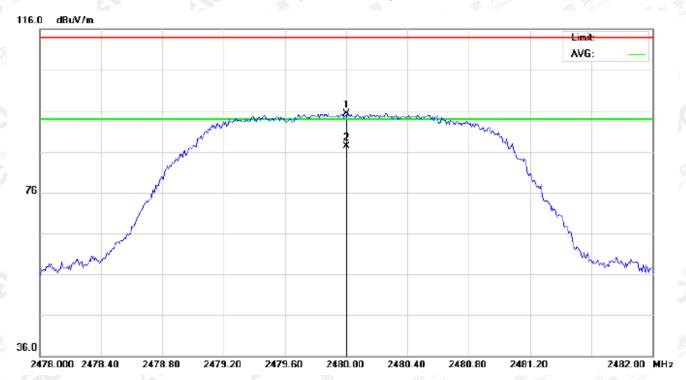
RESULT: PASS

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
-	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2480.000	84.90	10.41	95.31	114.00	-18.69	peak			
2	*	2480.000	76.82	10.41	87.23	94.00	-6.77	AVG	100	326	

RESULT: PASS

Note: 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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Field strength of the fundamental signal

3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	86.06	10.32	96.38	114	-17.62	Horizontal	
2402	85.60	10.32	95.92	114	-18.08	Vertical	
2441	85.63	10.36	95.99	114	-18.01	Horizontal	
2441	85.22	10.36	95.58	114	-18.42	Vertical	
2480	85.31	10.41	95.72	114	-18.28	Horizontal	
2480	84.90	10.41	95.31	114	-18.69	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	78.12	10.32	88.44	94	-5.56	Horizontal	
2402	77.66	10.32	87.98	94	-6.02	Vertical	
2441	77.68	10.36	88.04	94	-5.96	Horizontal	
2441	77.14	10.36	87.50	94	-6.50	Vertical	
2480	77.32	10.41	87.73	94	-6.27	Horizontal	
2480	76.82	10.41	87.23	94	-6.77	Vertical	



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2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	85.61	10.32	95.93	114	-18.07	Horizontal
2402	85.19	10.32	95.51	114	-18.49	Vertical
2441	85.16	10.36	95.52	114	-18.48	Horizontal
2441	84.79	10.36	95.15	114	-18.85	Vertical
2480	84.88	10.41	95.29	114	-18.71	Horizontal
2480	84.47	10.41	94.88	114	-19.12	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	77.63	10.32	87.95	94	-6.05	Horizontal
2402	77.25	10.32	87.57	94	-6.43	Vertical
2441	77.28	10.36	87.64	94	-6.36	Horizontal
2441	76.72	10.36	87.08	94	-6.92	Vertical
2480	76.89	10.41	87.30	94	-6.70	Horizontal
2480	76.35	10.41	86.76	94	-7.24	Vertical



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1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	85.16	10.32	95.48	114	-18.52	Horizontal	
2402	84.78	10.32	95.10	114	-18.90	Vertical	
2441	84.70	10.36	95.06	114	-18.94	Horizontal	
2441	84.32	10.36	94.68	114	-19.32	Vertical	
2480	84.39	10.41	94.80	114	-19.20	Horizontal	
2480	84.07	10.41	94.48	114	-19.52	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	77.21	10.32	87.53	94	-6.47	Horizontal
2402	76.77	10.32	87.09	94	-6.91	Vertical
2441	76.81	10.36	87.17	94	-6.83	Horizontal
2441	76.23	10.36	86.59	94	-7.41	Vertical
2480	76.41	10.41	86.82	94	-7.18	Horizontal
2480	75.92	10.41	86.33	94	-7.67	Vertical



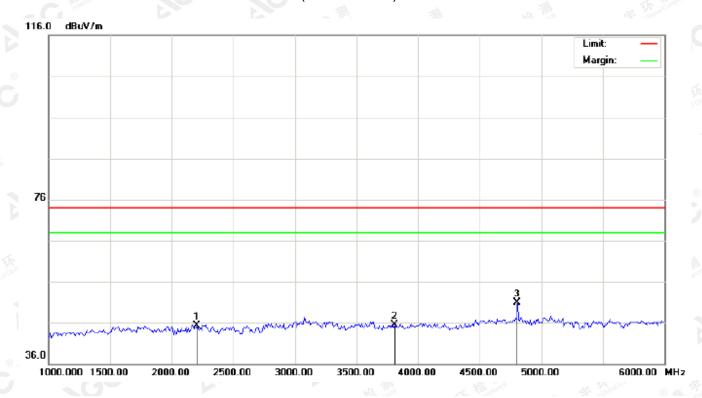
age 32 of 63

FOR BR/EDR

(Worst modulation: 8DPSK)

For Harmonics

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



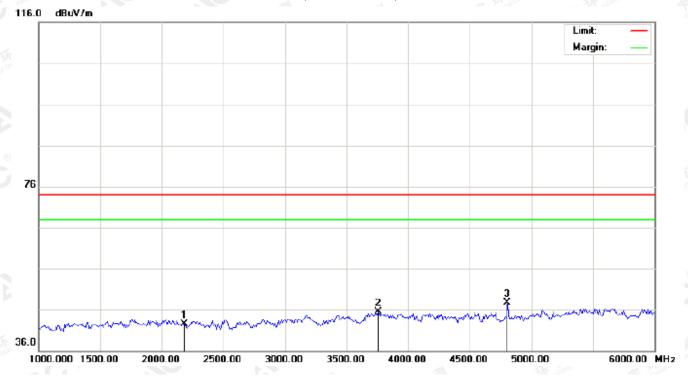
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2200.000	35.15	10.10	45.25	74.00	-28.75	peak			
2		3808.333	31.44	14.01	45.45	74.00	-28.55	peak			
3	*	4804.000	43.21	7.69	50.90	74.00	-23.10	peak			

RESULT: PASS



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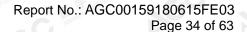
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2183.333	32.50	10.08	42.58	74.00	-31.42	peak			
2		3758.333	31.71	13.70	45.41	74.00	-28.59	peak			
3	*	4804.000	40.05	7.69	47.74	74.00	-26.26	peak			

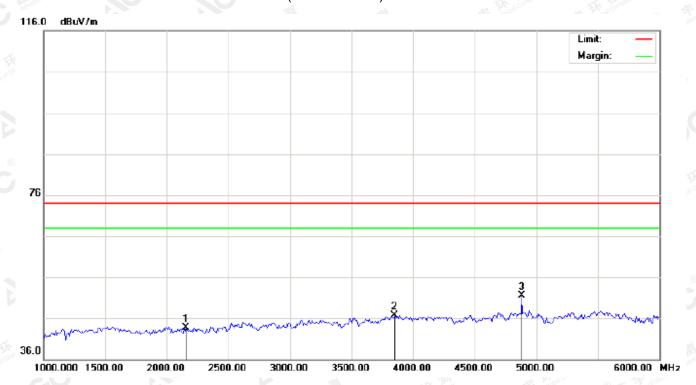
RESULT: PASS

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



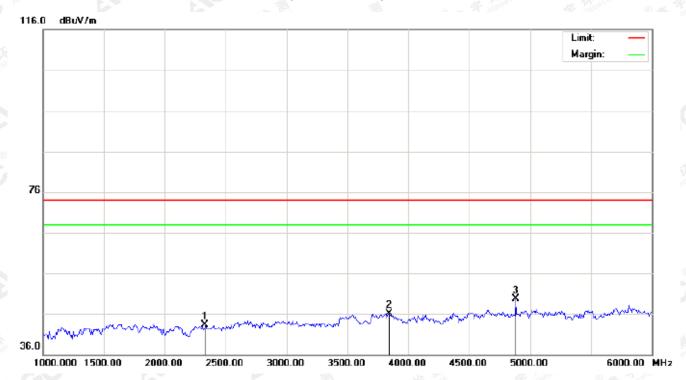
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2158.333	33.58	10.05	43.63	74.00	-30.37	peak			
2		3850.000	32.53	14.27	46.80	74.00	-27.20	peak			
3	*	4882.000	43.66	7.89	51.55	74.00	-22.45	peak			

RESULT: PASS





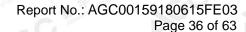
RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



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		2333.333	33.04	10.25	43.29	74.00	-30.71	peak			
2		3841.667	31.86	14.21	46.07	74.00	-27.93	peak			
3	*	4882.000	41.89	7.89	49.78	74.00	-24.22	peak			

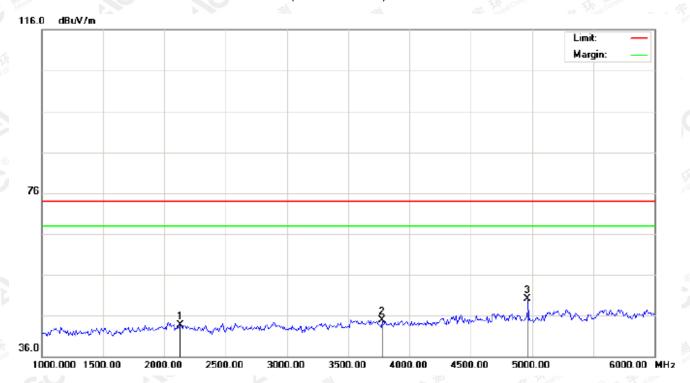
RESULT: PASS

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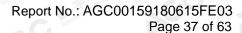
RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



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		2133.333	33.63	10.03	43.66	74.00	-30.34	peak			
2		3775.000	31.07	13.80	44.87	74.00	-29.13	peak			
3	*	4960.000	42.10	8.09	50.19	74.00	-23.81	peak			

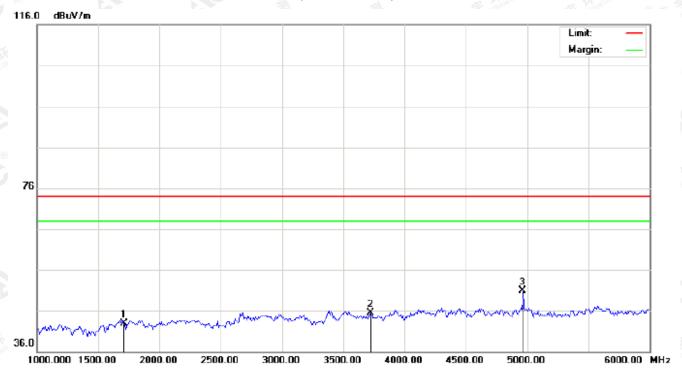
DECILIT: DACC

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



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		1708.333	36.07	6.81	42.88	74.00	-31.12	peak			
2		3725.000	31.92	13.50	45.42	74.00	-28.58	peak			
3	*	4960.000	42.91	8.09	51.00	74.00	-23.00	peak			

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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10. BAND EDGE EMISSION

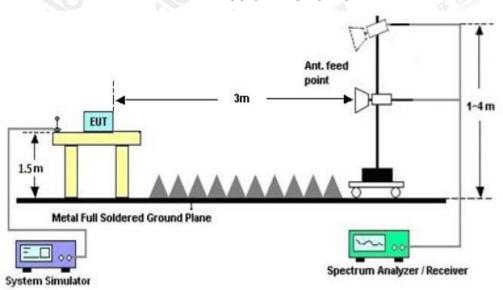
10.1. MEASUREMENT PROCEDURE

- 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(MHz)				
	2200	Kingliane	The Compilers	© A station	2405	100°		
8 F.	2478	Global Co	attestation of Glob	-,0 "	2500			

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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Report No.: AGC00159180615FE03

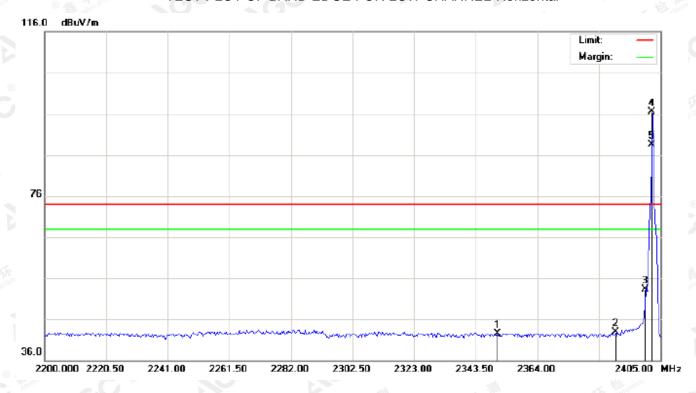
age 39 of 63

10.3 RADIATED TEST RESULT

FOR BR/EDR

(Worst modulation: 8DPSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal

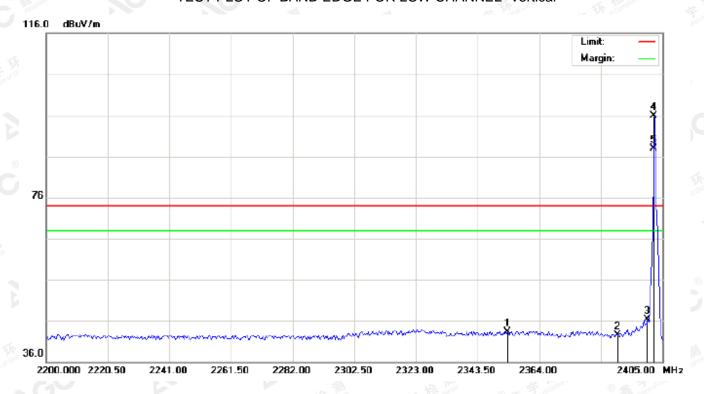


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu√/m	dB		cm	degree	
1		2350.675	32.19	10.27	42.46	74.00	-31.54	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	42.97	10.32	53.29	74.00	-20.71	peak			
4	*	2402.000	86.13	10.32	96.45	74.00	22.45	peak			
5	Х	2402.000	78.17	10.32	88.49	74.00	14.49	AVG	100	213	

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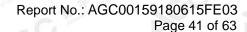


TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



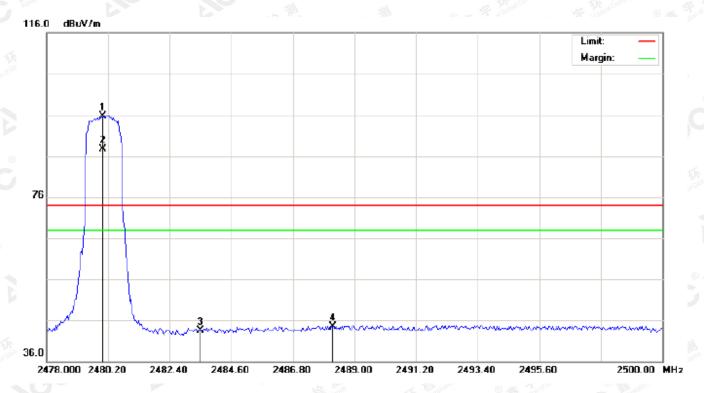
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
,	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2353.408	33.10	10.27	43.37	74.00	-30.63	peak			
2		2390.000	32.21	10.31	42.52	74.00	-31.48	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	85.67	10.32	95.99	74.00	21.99	peak			
5	Х	2402.000	77.61	10.32	87.93	74.00	13.93	AVG	100	320	

The results showed this jest 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 1000, 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 a trip://www.agc-gett.com.



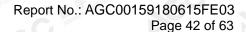


TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



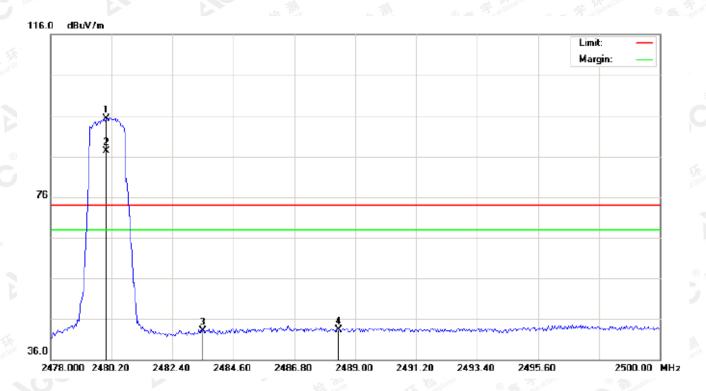
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	85.25	10.41	95.66	74.00	21.66	peak			
2	Х	2480.000	77.23	10.41	87.64	74.00	13.64	AVG	100	210	
3		2483.500	33.19	10.41	43.60	74.00	-30.40	peak			
4		2488.230	34.16	10.42	44.58	74.00	-29.42	peak			

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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	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	84.95	10.41	95.36	74.00	21.36	peak			
2	Х	2480.000	76.86	10.41	87.27	74.00	13.27	AVG	100	322	
3		2483.500	32.76	10.41	43.17	74.00	-30.83	peak			
4		2488.413	32.87	10.42	43.29	74.00	-30.71	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.

The results spowford this jest 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 XOC, 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 attp://www.ago.go.tt.com.

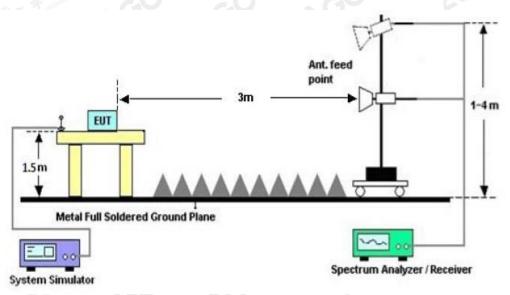


11. 20DB BANDWIDTH

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 ≥ 1% of the 20 dB bandwidth, VBW ≥ 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

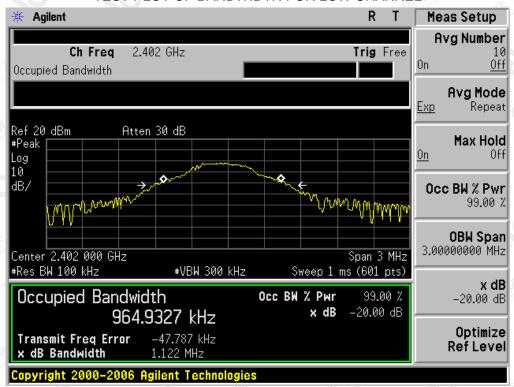
FOR BR/EDR

BLUET	OOTH 1MBPS LIN	IITS AND MEASU	REMENT RESULT						
		Measurement Result							
Applicable Limits		Test Data (MHz)		Decult					
		99%OBW (MHz)	-20dB BW(MHz)	Result					
adougle Commission Co.	Low Channel	0.965	1.122	PASS					
N/A	Middle Channel	0.975	1.123	PASS					
700	High Channel	0.967	1.109	PASS					

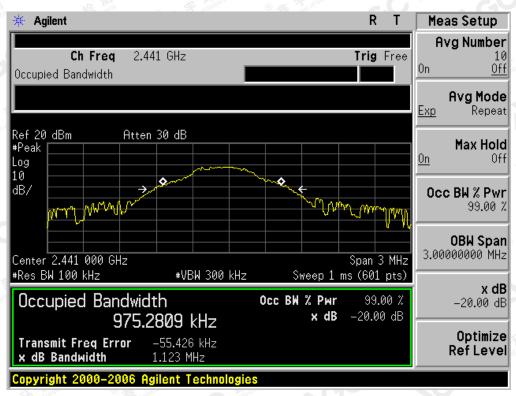
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



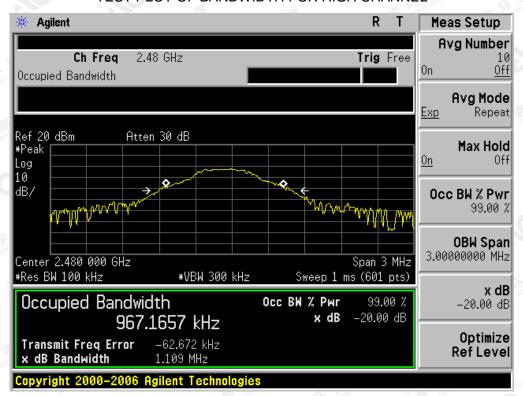
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

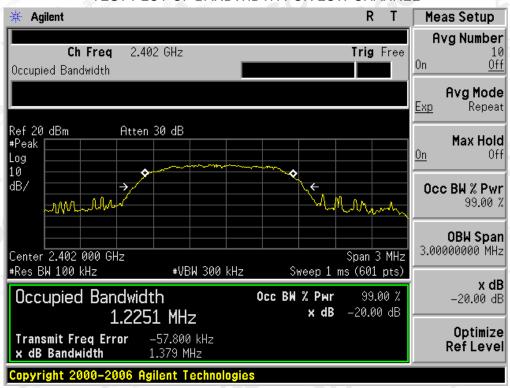


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All and a second a			- 30 ml	50V 100m
BLUETO	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT	
Applicable Limits		Test Data (MHz))	Danult
		-20dB BW(MHz)	Result	
The fill	Low Channel	1.225	1.379	PASS
N/A	Middle Channel	1.234	1.398	PASS
	High Channel	1.235	1.398	PASS

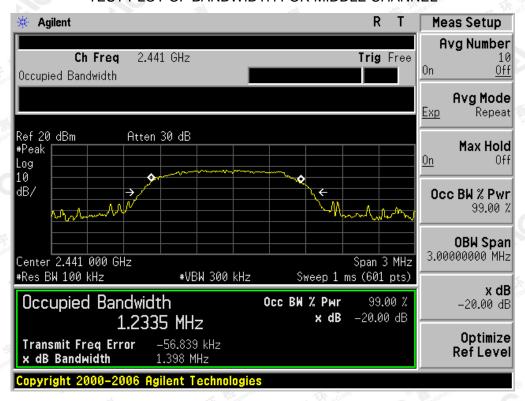
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



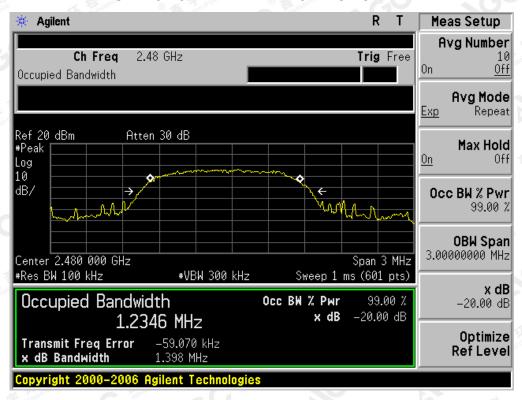
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

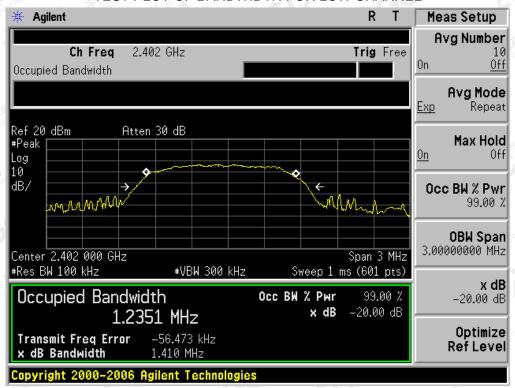


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BLUETO	OOTH 3MBPS LIN	MITS AND MEASU	REMENT RESULT	
		Measure	ement Result	
Applicable Limits		Result		
		99%OBW (MHz)	Kesuit	
下 整 测 不 整 测 1	Low Channel	1.235	1.410	PASS
N/A	Middle Channel	1.226	1.390	PASS
	High Channel	1.230	1.398	PASS

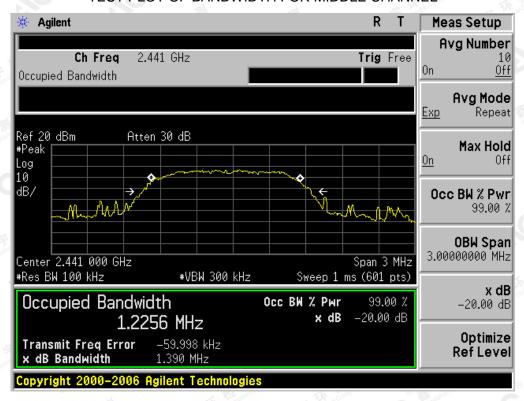
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



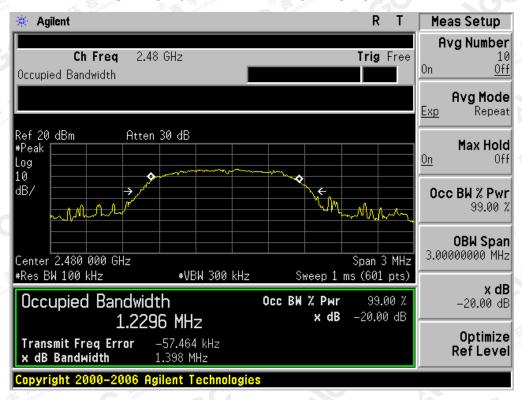
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

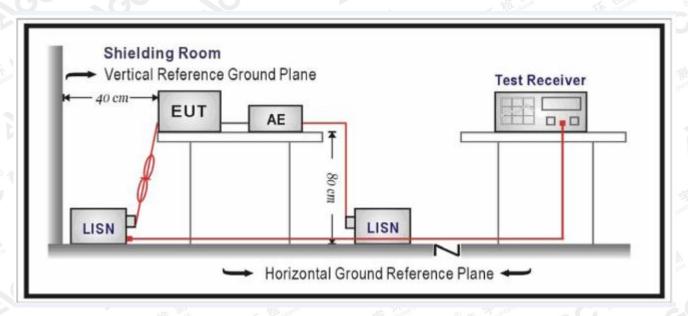
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	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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12.3. 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 DC charging voltage by adapter or PC 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.
- 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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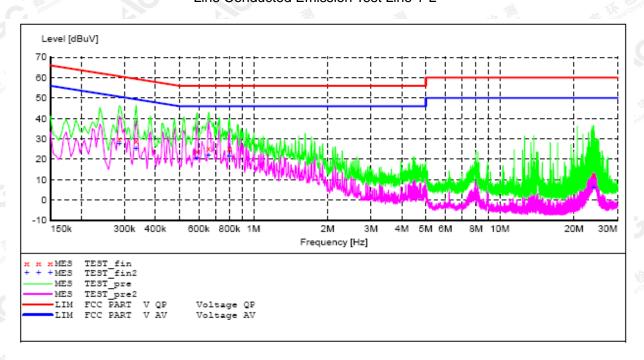


12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.286000 0.334000	30.20 28.80	10.1	61 59	30.4 30.6	QP QP	L1 L1	FLO FLO
0.590000	23.70	9.9	56	32.3	QP	L1	FLO
0.658000	25.40	9.9	56	30.6	QP	L1	FLO
0.798000	25.30	10.0	56	30.7	QP	L1	FLO
23.998000	12.10	10.2	60	47.9	QP	L1	FLO

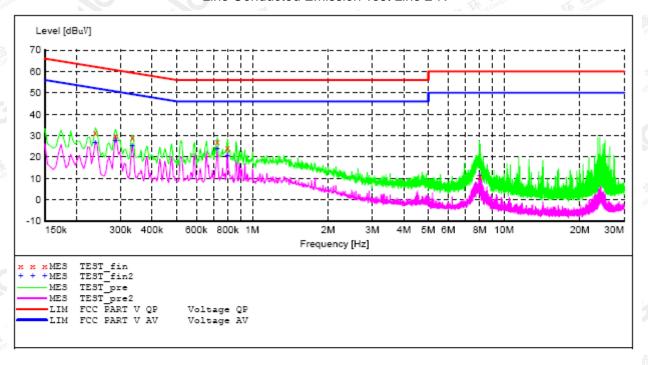
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.286000 0.334000 0.590000 0.658000 0.798000 23.994000	27.80 25.40 20.60 22.20 21.50 6.00	10.1 10.0 9.9 9.9 10.0 10.2	51 49 46 46 46 50	22.8 24.0 25.4 23.8 24.5 44.0	AV AV AV AV AV	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST fin"

MHz dBuV dB dBuV dB	
0.286000 30.00 10.1 61 30.6 QP N E 0.334000 28.90 10.0 59 30.5 QP N E 0.726000 27.40 9.9 56 28.6 QP N E 0.798000 24.40 10.0 56 31.6 QP N	FLO FLO FLO FLO FLO

MEASUREMENT RESULT: "TEST fin2"

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.238000	26.90	10.1	52	25.3	AV	N	FLO
0.286000	27.80	10.1	51	22.8	AV	N	FLO
0.334000	25.20	10.0	49	24.2	AV	N	FLO
0.726000	23.70	9.9	46	22.3	AV	N	FLO
0.798000	20.50	10.0	46	25.5	AV	N	FLO
7.994000	11.00	10.1	50	39.0	AV	N	FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



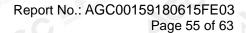
FCC RADIATED EMISSION TEST SETUP



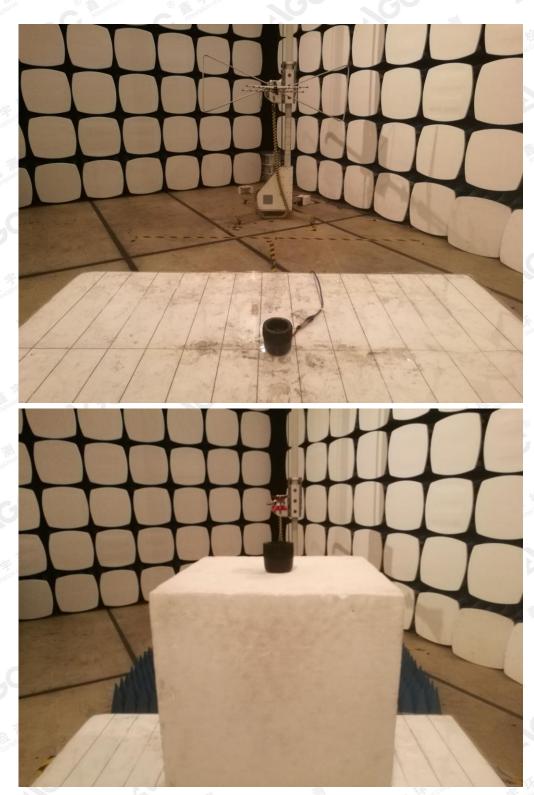
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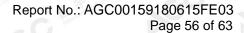
Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F. , Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China







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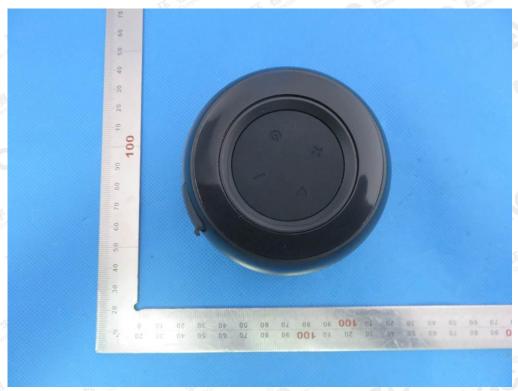


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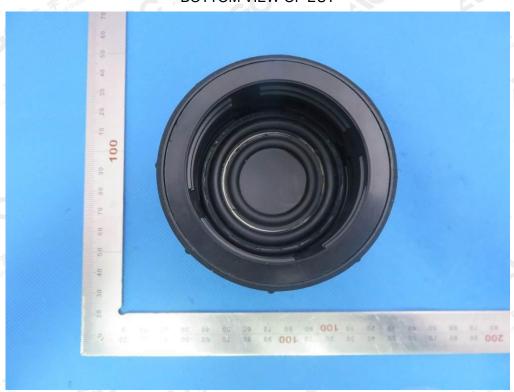


APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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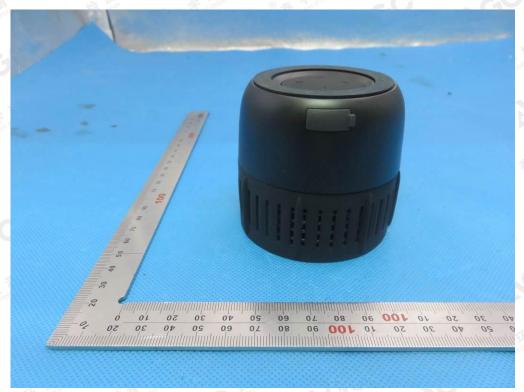
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FRONT VIEW OF EUT



BACK VIEW OF EUT



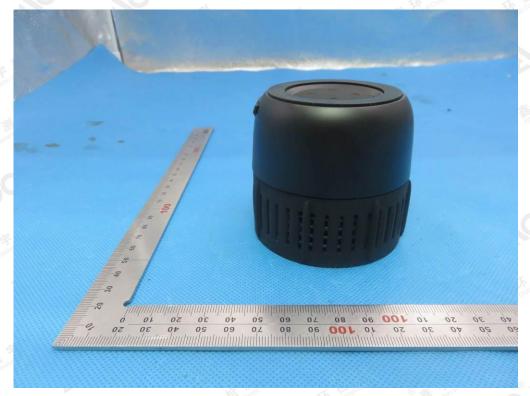
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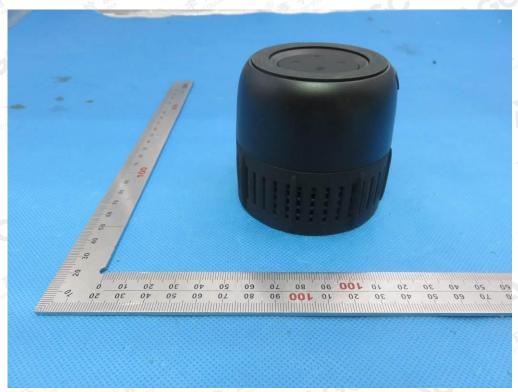
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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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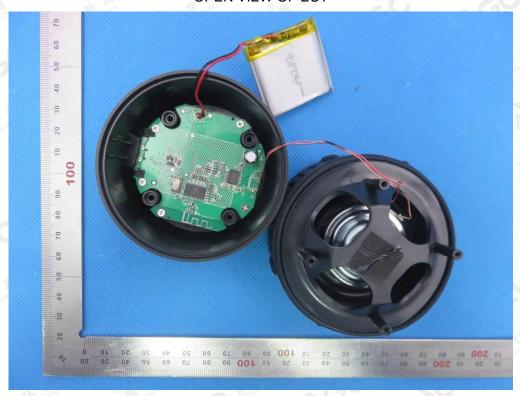
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VIEW OF EUT (PORT)



OPEN VIEW OF EUT



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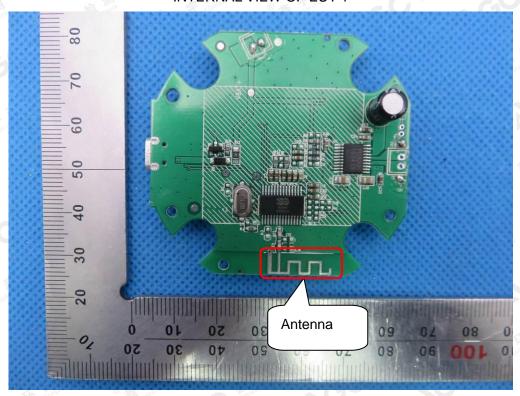
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VIEW OF BATTERY



INTERNAL VIEW OF EUT-1



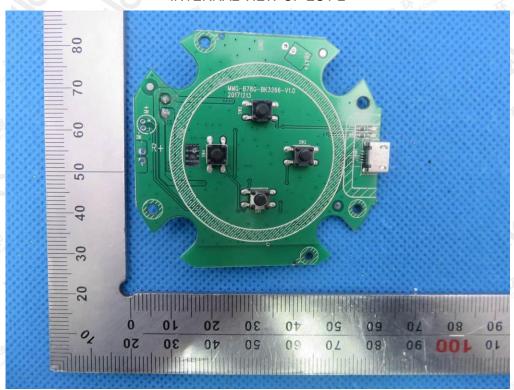
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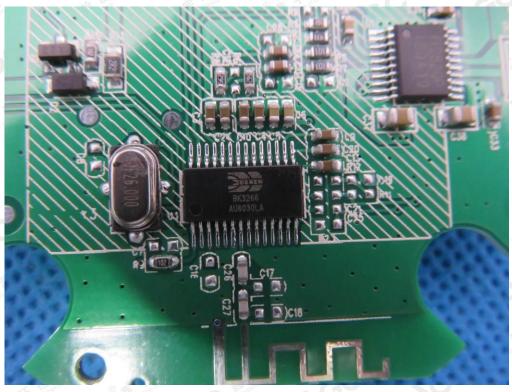
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INTERNAL VIEW OF EUT-2



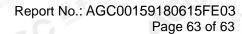
INTERNAL VIEW OF EUT-3



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VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

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