

# **FCC Test Report**

Report No.: AGC00159180304FE03

**FCC ID** : 2AOAW1625-93

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: Soundwave Copper Vacuum Audio Bottle

**BRAND NAME** : Seikilife

**MODEL NAME** : 1625-93, B82

: Seikilife (Shanghai) Housewares Co., LTD

**DATE OF ISSUE** : Apr. 08, 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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Page 2 of 68

# **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	Sold Transfer	Apr. 08, 2018	Valid	Initial release

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# TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	5
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	6
5. SYSTEM TEST CONFIGURATION	8
5.1. CONFIGURATION OF EUT SYSTEM	8 8
6. TEST FACILITY	10
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
10. BAND EDGE EMISSION	38
10.1. MEASUREMENT PROCEDURE	38 39
11. 20DB BANDWIDTH	43
11.1. MEASUREMENT PROCEDURE	43 43
12. FCC LINE CONDUCTED EMISSION TEST	
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	50 51 51
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	54
APPENDIX B. PHOTOGRAPHS OF FUT	57



age 4 of 68

## 1. VERIFICATION OF CONFORMITY

Applicant	Seikilife (Shanghai) Housewares Co., LTD			
Address	RM.F, 8/F, No. 1068 Wuzhong Road, Minhang DIST, Shanghai, 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	Soundwave Copper Vacuum Audio Bottle			
Brand Name	Seikilife			
Test Model	1625-93			
Series Model	B82_C 3			
Difference description	All the same except for the model name.			
Date of test	Mar. 29, 2018 to Apr. 04, 2018			
Deviation	None None			
Condition of Test Sample	Normal Manual Ma			
Report Template	AGCRT-US-BR/RF			
\$4. 740.				

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.

	Bang Un	
Tested By	· V	松咖啡
	Berg Lu(Lu Bing)	Apr. 04, 2018
	forest ce	
Reviewed By		The Acidopal Compile
	Forrest Lei(Lei Yonggang)	Apr. 08, 2018

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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	-1.43dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	1.3
Software Version	085
Antenna Designation	PCB Antenna
Antenna Gain	0.5dBi
Power Supply	DC 3.7V by battery
Note: The tested model h	nas two kinds of color samples, including silver+gray and silver+black.

## 2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	<b>Channel Number</b>	Frequency
1.Go	0	2402MHz
The Time	The state of the s	2403MHz
® ## studio of Godal Co	The same of the sa	100
GC " GO	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
Companie & Francisco Copy	40	2442 MHz
GC TO C		
	77	2479 MHz
10 mm	78	2480 MHz



Page 6 of 68

## 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%.

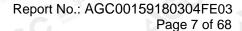
- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

## 4. DESCRIPTION OF TEST MODES

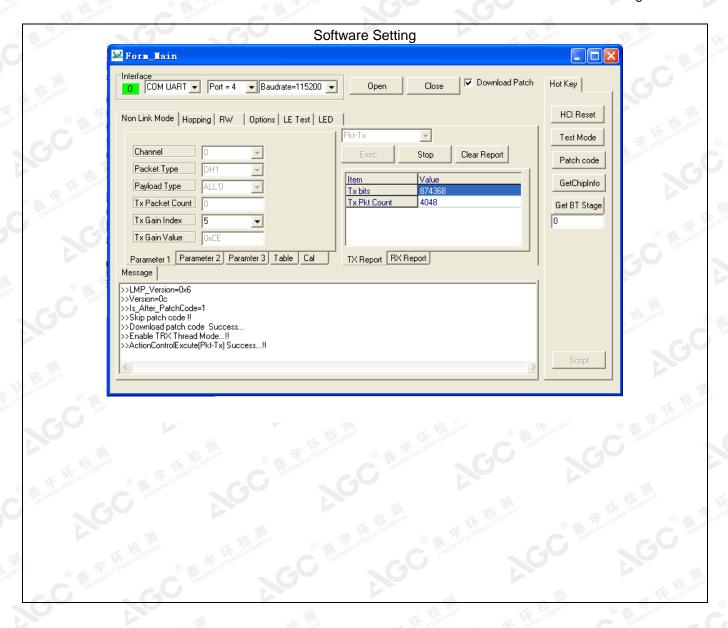
TEST MODE DESCRIPTION
Low channel GFSK
Middle channel GFSK
High channel GFSK
Low channel π /4-DQPSK
Middle channel π /4-DQPSK
High channel π /4-DQPSK
Low channel 8DPSK
Middle channel 8DPSK
High channel 8DPSK
BT Link with charging
BT Link

#### 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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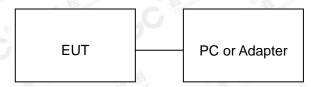


age 8 of 68

## 5. SYSTEM TEST CONFIGURATION

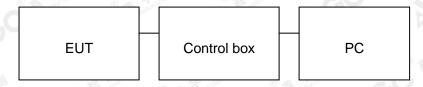
## **5.1. CONFIGURATION OF EUT SYSTEM**

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 1	Soundwave Copper Vacuum Audio Bottle	Seikilife	1625-93	EUT	
2	Battery	ST	802025	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	BEKEN	N/A	A.E	
5	Adapter	N/A	MX12X8-0502000UU	A.E	
6	USB Cable	N/A	1m unshielded	A.E	



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



Page 10 of 68

## 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



age 11 of 68

## 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	LAPLACE	RF300	C AME	Mar. 01, 2016	Feb. 28, 2018
Filter (2.4-2.483GHz)	Micro-tronics	087	- TIII	Jun.20, 2017	Jun.19, 2018



Page 12 of 68

## 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)	9					
0.490 ~ 1.705	30	24000/F(kHz)	技訓					
1.705 ~ 30	30	30 (1)	E Cobaco (Color of Color of Co					
30 ~ 88	3 F 1000	100	40.0					
88 ~ 216	3 - 6	150	43.5					
216 ~ 960	3	200	46.0					
960 ~ 1000	3	500	54.0					
Above 1000	3. I	Other:74.0 dB(μV)/m (Average)	(Peak) 54.0 dB(μV)/m					

Remark:

- (1) Emission level dB $\mu$  V = 20 log Emission level  $\mu$  V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



Page 13 of 68

#### 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.
- 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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Page 14 of 68

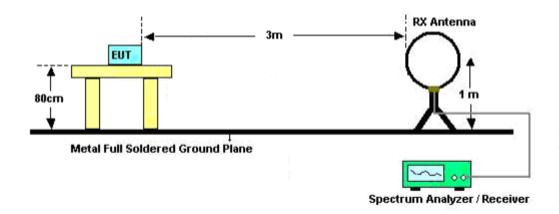
The following table is the setting of spectrum analyzer and receiver.

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

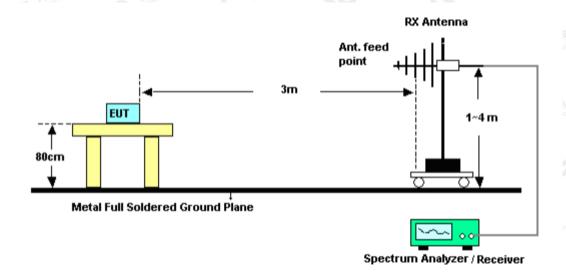


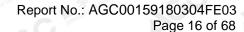
## 9.3. TEST SETUP

## Radiated Emission Test-Setup Frequency Below 30MHz



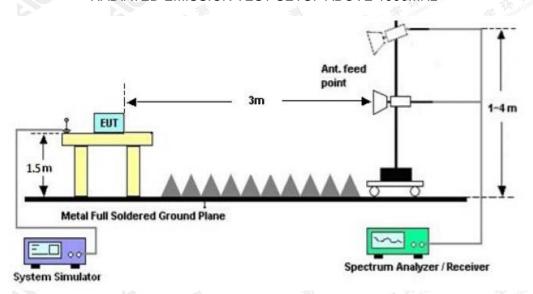
## RADIATED EMISSION TEST SETUP 30MHz-1000MHz







## RADIATED EMISSION TEST SETUP ABOVE 1000MHz





Page 17 of 68

## 9.4. TEST RESULT

## FOR BR/EDR

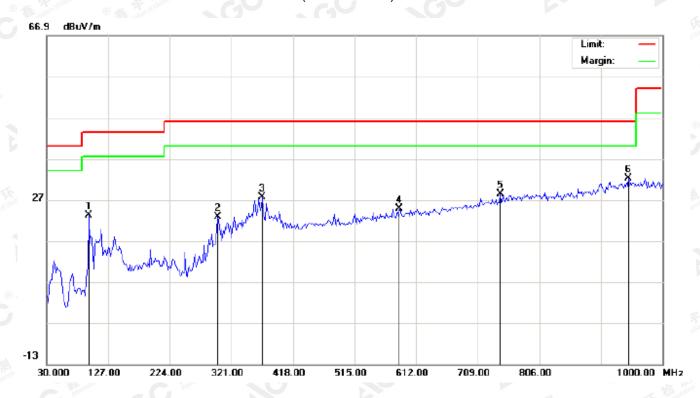
(Worst modulation: GFSK)

## **RADIATED EMISSION BELOW 30MHz**

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

## **RADIATED EMISSION BELOW 1GHz**

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



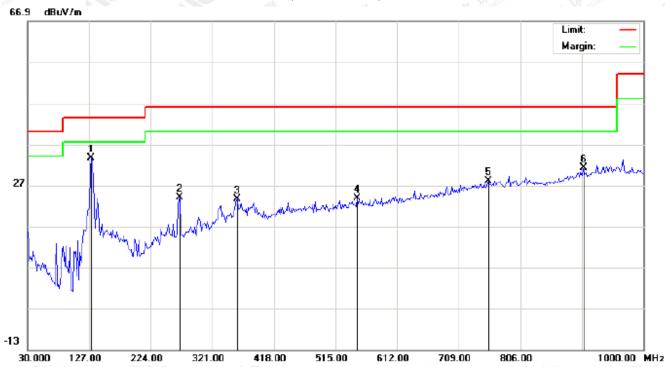
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu√/m	dB		cm	degree	
1		96.2833	16.50	6.77	23.27	43.50	-20.23	peak			
2		299.9833	7.35	15.41	22.76	46.00	-23.24	peak			
3		369.5000	8.68	18.87	27.55	46.00	-18.45	peak			
4		586.1332	1.34	23.38	24.72	46.00	-21.28	peak			
5		744.5667	1.86	26.48	28.34	46.00	-17.66	peak			
6	*	946.6500	2.32	29.91	32.23	46.00	-13.77	peak			

**RESULT: PASS** 



Page 18 of 68

## 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	*	130.2332	22.43	11.13	33.56	43.50	-9.94	peak			
2		269.2667	9.60	14.48	24.08	46.00	-21.92	peak			
3		359.8000	4.90	18.80	23.70	46.00	-22.30	peak			
4		548.9500	1.40	22.45	23.85	46.00	-22.15	peak			
5		755.8832	1.23	26.71	27.94	46.00	-18.06	peak			
6		906.2333	2.37	28.78	31.15	46.00	-14.85	peak			

## **RESULT: PASS**

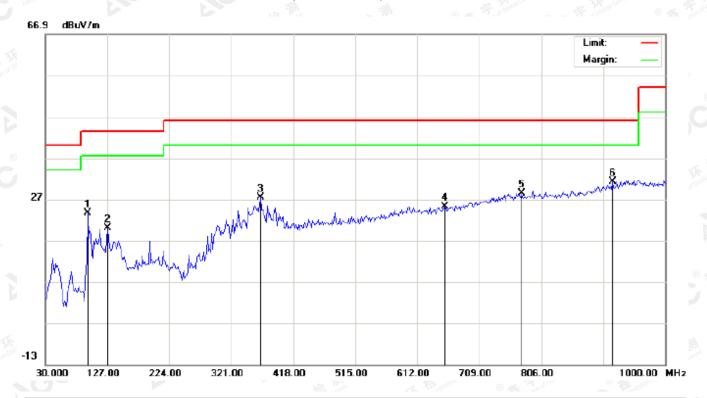
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



Page 19 of 68

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



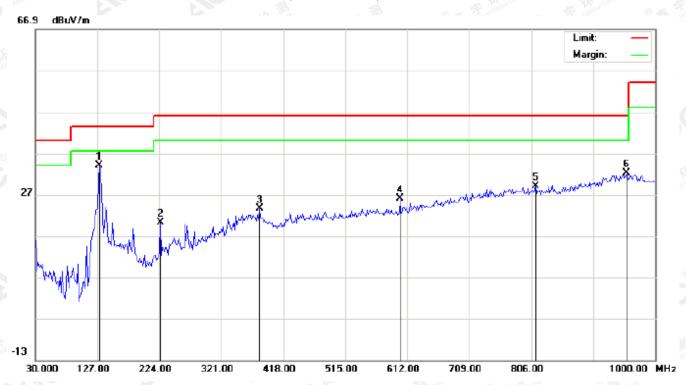
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		96.2833	16.86	6.77	23.63	43.50	-19.87	peak			
2		127.0000	10.96	9.13	20.09	43.50	-23.41	peak			
3		366.2667	8.54	18.85	27.39	46.00	-18.61	peak			
4		655.6500	1.15	24.00	25.15	46.00	-20.85	peak			
5		775.2833	1.37	26.98	28.35	46.00	-17.65	peak		·	
6	*	917.5500	2.07	29.10	31.17	46.00	-14.83	peak			

**RESULT: PASS** 



Page 20 of 68

# 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	dBu∀/m	dBu√/m	dB		cm	degree	
1	*	130.2332	22.91	11.13	34.04	43.50	-9.46	peak			
2		225.6167	8.73	11.51	20.24	46.00	-25.76	peak			
3		380.8167	4.60	18.94	23.54	46.00	-22.46	peak			
4		600.6833	3.22	22.75	25.97	46.00	-20.03	peak			
5		812.4667	1.65	27.32	28.97	46.00	-17.03	peak			
6		954.7333	2.29	29.95	32.24	46.00	-13.76	peak			

## **RESULT: PASS**

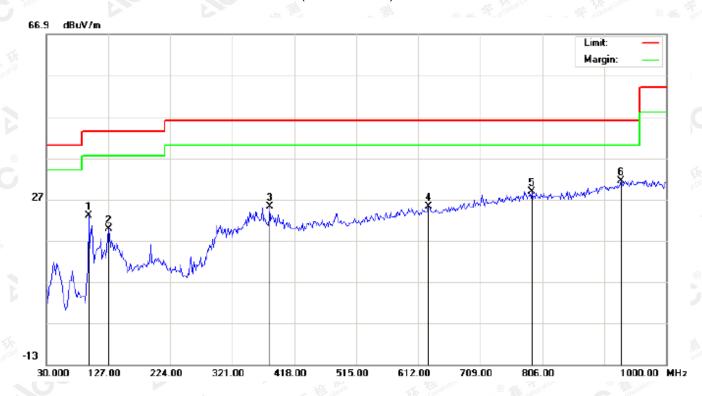
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



Page 21 of 68

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



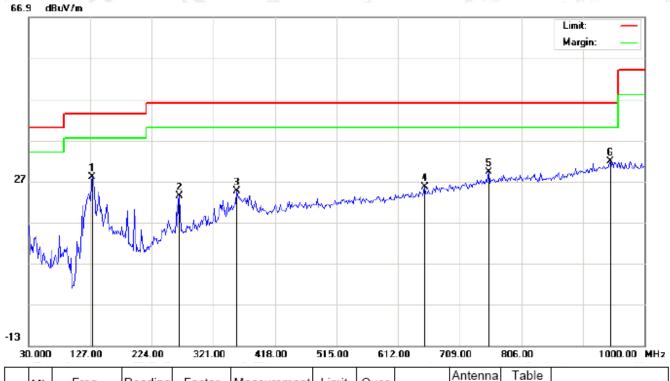
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu√/m			cm	degree	
1		96.2833	16.21	6.77	22.98	43.50	-20.52	peak			
2		127.0000	10.76	9.13	19.89	43.50	-23.61	peak			
3		379.2000	6.37	18.93	25.30	46.00	-20.70	peak			
4		628.1667	1.35	23.80	25.15	46.00	-20.85	peak			
5		789.8333	1.57	27.18	28.75	46.00	-17.25	peak			
6	*	928.8667	2.00	29.41	31.41	46.00	-14.59	peak			

**RESULT: PASS** 



Page 22 of 68

## 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		130.2332	16.86	11.13	27.99	43.50	-15.51	peak			
2		267.6500	9.01	14.43	23.44	46.00	-22.56	peak			
3		358.1833	5.91	18.79	24.70	46.00	-21.30	peak			
4		654.0333	1.55	23.96	25.51	46.00	-20.49	peak			
5		754.2667	2.50	26.69	29.19	46.00	-16.81	peak			
6	*	946.6500	1.81	29.91	31.72	46.00	-14.28	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.



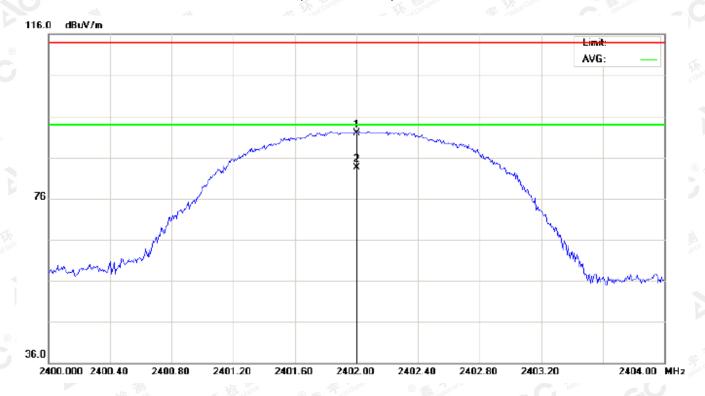
Page 23 of 68

# RADIATED EMISSION ABOVE 1GHz FOR BR/EDR

(Worst modulation: GFSK)

#### For Fundamental

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



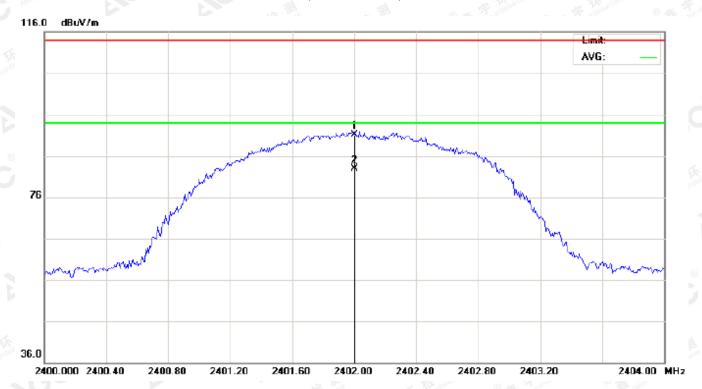
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu√/m	dBu∀/m	dB		cm	degree	
1		2402.000	81.62	10.32	91.94	114.00	-22.06	peak			
2	*	2402.000	73.27	10.32	83.59	94.00	-10.41	AVG	100	149	

RESULT: PASS



Page 24 of 68

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



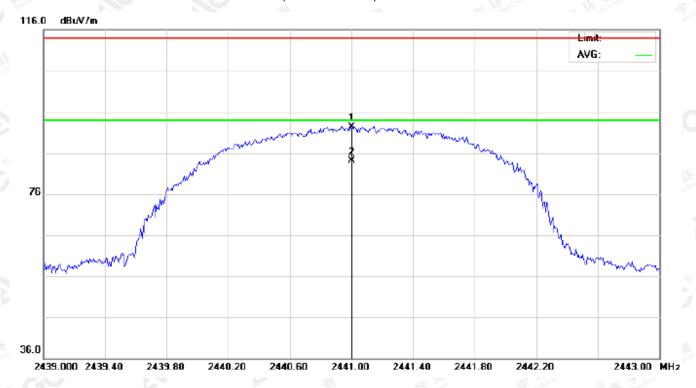
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	80.87	10.32	91.19	114.00	-22.81	peak			
2	*	2402.000	72.52	10.32	82.84	94.00	-11.16	AVG	100	282	

RESULT: PASS



Page 25 of 68

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2441.000	82.04	10.36	92.40	114.00	-21.60	peak			
2	*	2441.000	73.69	10.36	84.05	94.00	-9.95	AVG	100	156	

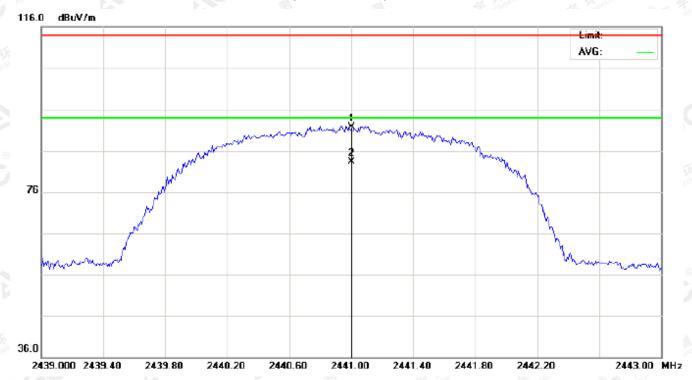
**RESULT: PASS** 

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Page 26 of 68

# 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	81.28	10.36	91.64	114.00	-22.36	peak			
2	*	2441.000	72.93	10.36	83.29	94.00	-10.71	AVG	100	285	

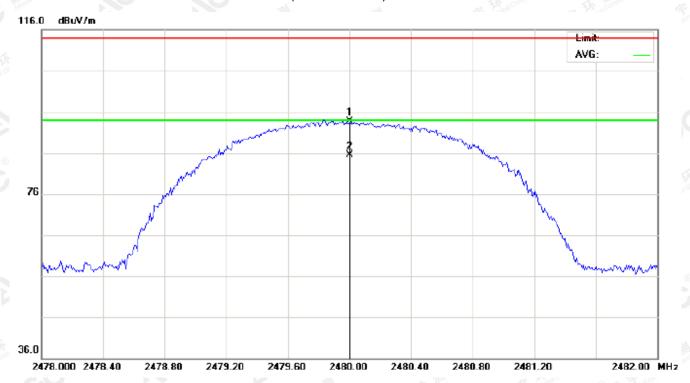
**RESULT: PASS** 

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Page 27 of 68

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



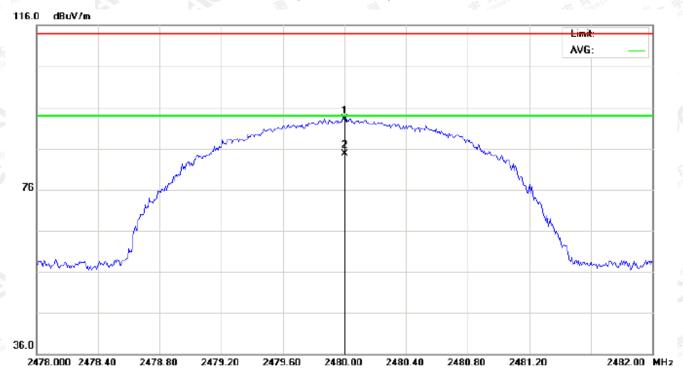
No	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
N.	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2480.000	83.36	10.41	93.77	114.00	-20.23	peak			
2	*	2480.000	75.01	10.41	85.42	94.00	-8.58	AVG	100	149	

**RESULT: PASS** 



Page 28 of 68

## 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		2480.000	82.63	10.41	93.04	114.00	-20.96	peak			
2	*	2480.000	74.28	10.41	84.69	94.00	-9.31	AVG	100	281	

## **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.



Page 29 of 68

# Field strength of the fundamental signal

## 1Mbps Result:

## Peak value

Frequency	Reading Level	Factor	Factor Measurement		Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	81.62	10.32	91.94	114	-22.06	Horizontal	
2402	80.87	10.32	91.19	114	-22.81	Vertical	
2441	82.04	10.36	92.40	114	-21.60	Horizontal	
2441	81.28	10.36	91.64	114	-22.36	Vertical	
2480	83.36	10.41	93.77	114	-20.23	Horizontal	
2480	82.63	10.41	93.04	114	-20.96	Vertical	

## Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.27	10.32	83.59	94	-10.41	Horizontal
2402	72.52	10.32	82.84	94	-11.16	Vertical
2441	73.69	10.36	84.05	94	-9.95	Horizontal
2441	72.93	10.36	83.29	94	-10.71	Vertical
2480	75.01	10.41	85.42	94	-8.58	Horizontal
2480	74.28	10.41	84.69	94	-9.31	Vertical



Page 30 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	81.12	10.32	91.44	114	-22.56	Horizontal
2402	80.42	10.32	90.74	114	-23.26	Vertical
2441	81.60	10.36	91.96	114	-22.04	Horizontal
2441	80.83	10.36	91.19	114	-22.81	Vertical
2480	82.99	10.41	93.40	114	-20.60	Horizontal
2480	82.20	10.41	92.61	114	-21.39	Vertical

## Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	72.82	10.32	83.14	94	-10.86	Horizontal
2402	72.18	10.32	82.50	94	-11.50	Vertical
2441	73.28	10.36	83.64	94	-10.36	Horizontal
2441	72.59	10.36	82.95	94	-11.05	Vertical
2480	74.59	10.41	85.00	94	-9.00	Horizontal
2480	73.91	10.41	84.32	94	-9.68	Vertical



Page 31 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	80.81	10.32	91.13	114	-22.87	Horizontal
2402	79.98	10.32	90.30	114	-23.70	Vertical
2441	81.27	10.36	91.63	114	-22.37	Horizontal
2441	80.51	10.36	90.87	114	-23.13	Vertical
2480	82.68	10.41	93.09	114	-20.91	Horizontal
2480	81.87	10.41	92.28	114	-21.72	Vertical

## Average value

3						
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	72.48	10.32	82.80	94	-11.20	Horizontal
2402	71.83	10.32	82.15	94	-11.85	Vertical
2441	72.94	10.36	83.30	94	-10.70	Horizontal
2441	72.25	10.36	82.61	94	-11.39	Vertical
2480	74.28	10.41	84.69	94	-9.31	Horizontal
2480	73.49	10.41	83.90	94	-10.10	Vertical



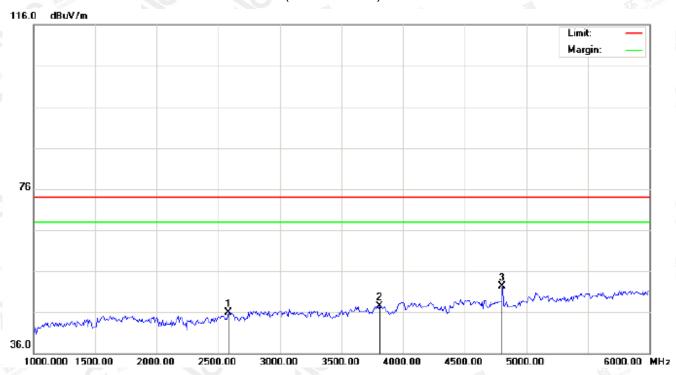
Page 32 of 68

## FOR BR/EDR

(Worst modulation: GFSK)

## **For Harmonics**

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



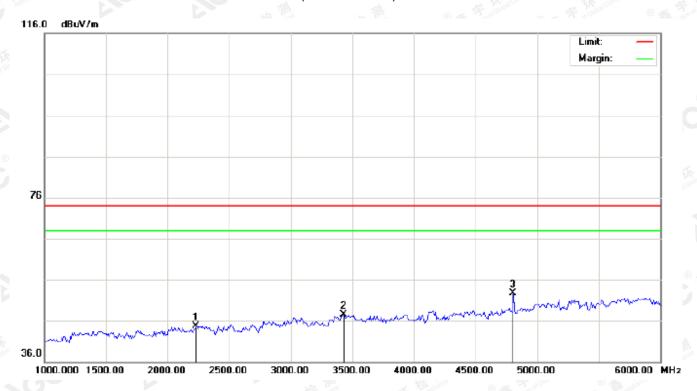
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2583.333	35.37	10.63	46.00	74.00	-28.00	peak			
2		3808.333	33.44	14.01	47.45	74.00	-26.55	peak			
3	*	4804.000	44.71	7.69	52.40	74.00	-21.60	peak			

RESULT: PASS



Page 33 of 68

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



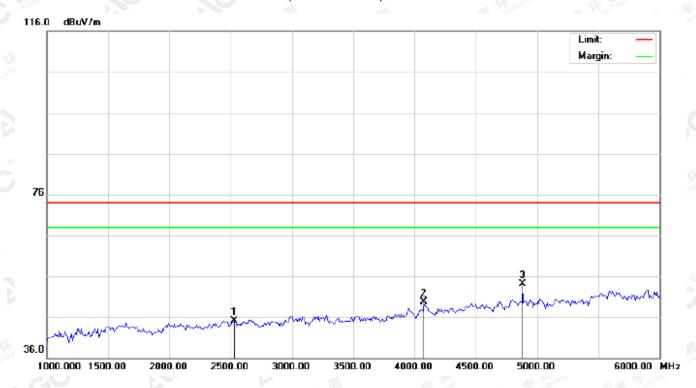
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2233.333	34.55	10.14	44.69	74.00	-29.31	peak			
2		3433.333	35.54	12.05	47.59	74.00	-26.41	peak			
3	*	4804.000	45.05	7.69	52.74	74.00	-21.26	peak			

**RESULT: PASS** 



Page 34 of 68

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



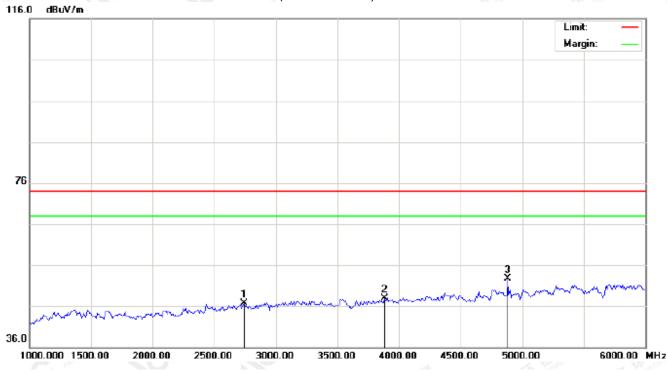
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2533.333	34.68	10.51	45.19	74.00	-28.81	peak			
2		4075.000	35.69	13.94	49.63	74.00	-24.37	peak			
3	*	4882.000	46.16	7.89	54.05	74.00	-19.95	peak			

RESULT: PASS



Page 35 of 68

# 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		2741.667	35.75	11.01	46.76	74.00	-27.24	peak			
2		3883.333	33.43	14.47	47.90	74.00	-26.10	peak			
3	*	4882.000	44.89	7.89	52.78	74.00	-21.22	peak			

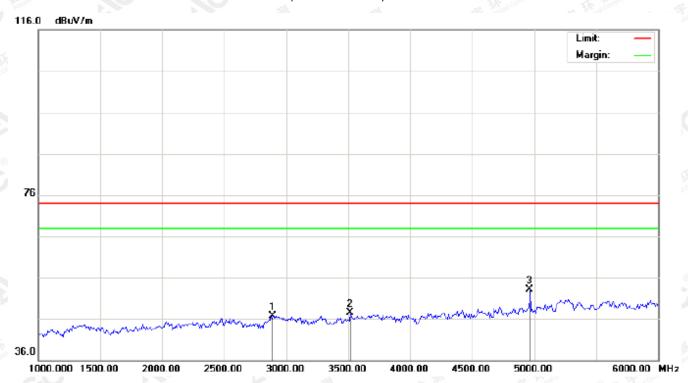
**RESULT: PASS** 

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Page 36 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		2891.667	35.35	11.38	46.73	74.00	-27.27	peak			
2		3516.667	35.22	12.21	47.43	74.00	-26.57	peak			
3	*	4960.000	45.10	8.09	53.19	74.00	-20.81	peak			

DECILIT: DACC

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Page 37 of 68

## 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		2566.667	35.29	10.59	45.88	74.00	-28.12	peak			
2		3525.000	35.02	12.26	47.28	74.00	-26.72	peak			
3	*	4960.000	45.41	8.09	53.50	74.00	-20.50	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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Page 38 of 68

#### 10. BAND EDGE EMISSION

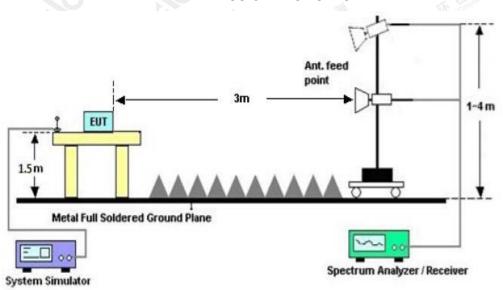
#### 10.1. MEASUREMENT PROCEDURE

- 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 frequency(MHz)  2200  2478			Stop frequency(MHz)				
	2200	Kimplence	The Committee	® # station of	2405	1GO		
® ## stall	2478	3lobal C	Autostation of Glob	·,O "	2500			

#### 10.2 TEST SETUP

## RADIATED EMISSION TEST SETUP



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Page 39 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	dBu∀/m	dBu∀/m	dB		cm	degree		
1		2284.733	32.11	10.19	42.30	74.00	-31.70	peak				
2		2361.608	31.72	10.28	42.00	74.00	-32.00	peak				
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak				
4	*	2402.000	81.65	10.32	91.97	74.00	17.97	peak		·		
5	Х	2402.000	73.31	10.32	83.63	74.00	9.63	AVG	100	165		

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Page 40 of 68

## TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



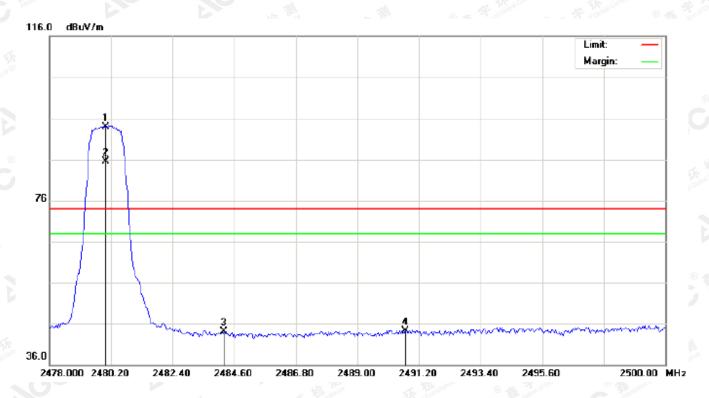
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2290.883	31.97	10.20	42.17	74.00	-31.83	peak			
2		2360.583	32.62	10.28	42.90	74.00	-31.10	peak			
3		2400.000	36.56	10.32	46.88	74.00	-27.12	peak			
4	*	2402.000	80.92	10.32	91.24	74.00	17.24	peak			
5	Х	2402.000	72.55	10.32	82.87	74.00	8.87	AVG	100	281	

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Page 41 of 68

## TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



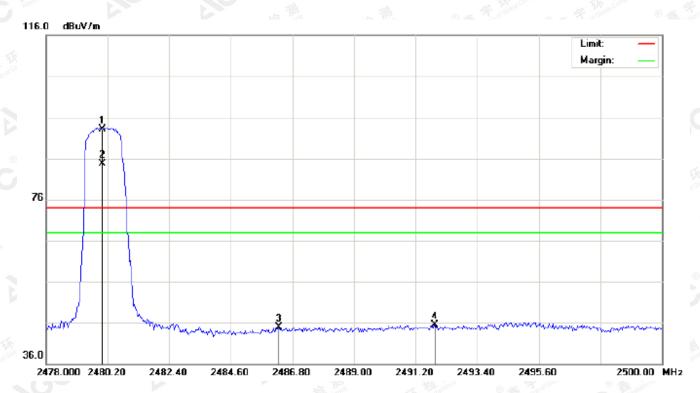
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu√/m	dB		cm	degree	
1	*	2480.000	83.41	10.41	93.82	74.00	19.82	peak			
2	Х	2480.000	75.16	10.41	85.57	74.00	11.57	AVG	100	153	
3		2484.233	33.67	10.41	44.08	74.00	-29.92	peak			
4		2490.723	33.95	10.42	44.37	74.00	-29.63	peak			

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Page 42 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
e e		MHz	dBu∀	dB/m	dBu∀/m	dBu√/m	dB		cm	degree	
1	*	2480.000	82.68	10.41	93.09	74.00	19.09	peak			
2	Х	2480.000	74.32	10.41	84.73	74.00	10.73	AVG	100	275	
3		2486.323	34.44	10.41	44.85	74.00	-29.15	peak			
4		2491.896	35.06	10.42	45.48	74.00	-28.52	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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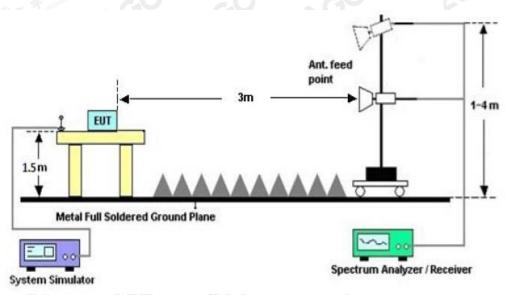
Page 43 of 68

## 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 ≥ 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

BLUETO	REMENT RESULT							
	Measurement Result							
Applicable Limits		Test Data (MHz)						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
Social Compiles (8) State and on the Sta	Low Channel	0.957	1.120	PASS				
N/A	Middle Channel	0.955	1.132	PASS				
	High Channel	0.953	1.113	PASS				

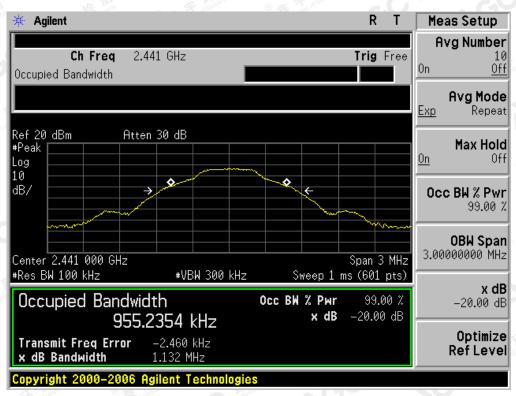
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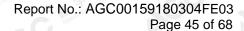
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

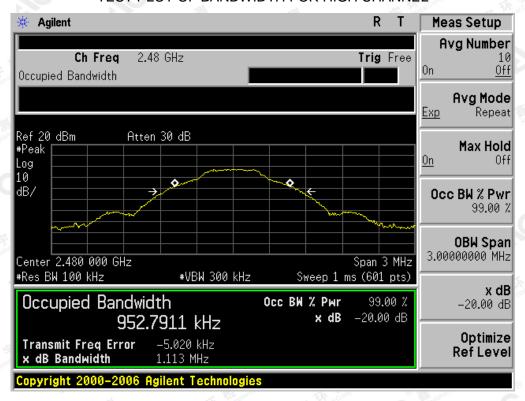


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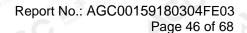




#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



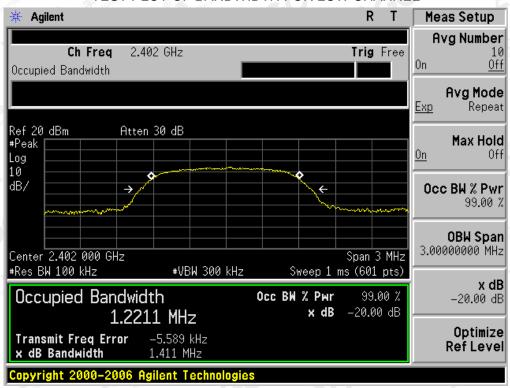
The results spoured this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.





BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result									
Applicable Limits		Decult								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
不整理 不整理	Low Channel	1.221	1.411	PASS						
N/A	Middle Channel	1.215	1.407	PASS						
AGC "	High Channel	1.222	1.401	PASS						

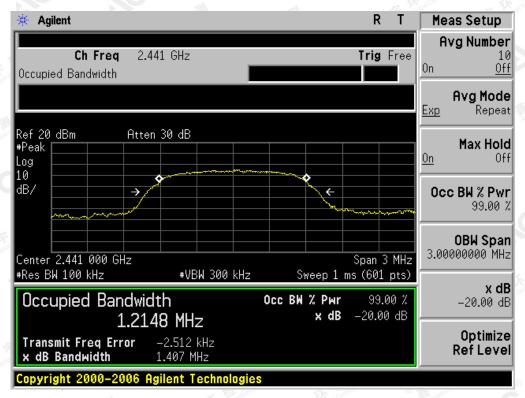
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



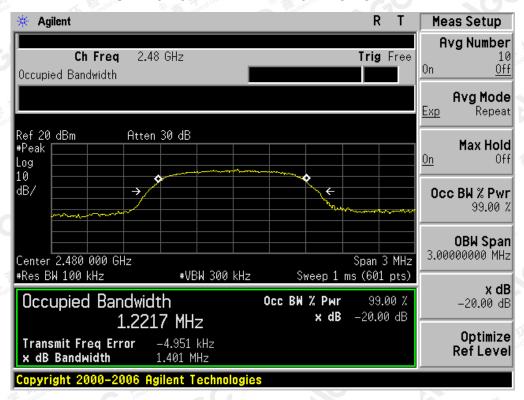
The results spoured this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.



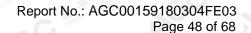
#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



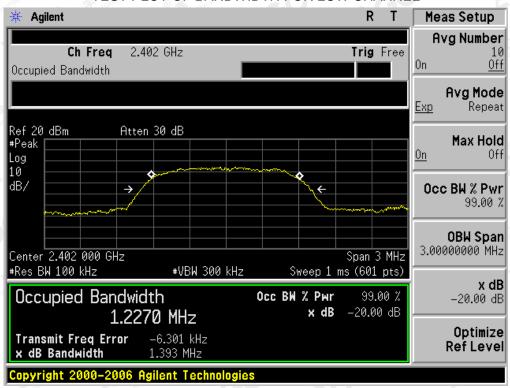
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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





**BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT** Measurement Result **Applicable Limits** Test Data (MHz) Result 99%OBW (MHz) -20dB BW(MHz) Low Channel 1.227 **PASS** 1.393 **PASS** N/A Middle Channel 1.236 1.413 1.230 **PASS High Channel** 1.407

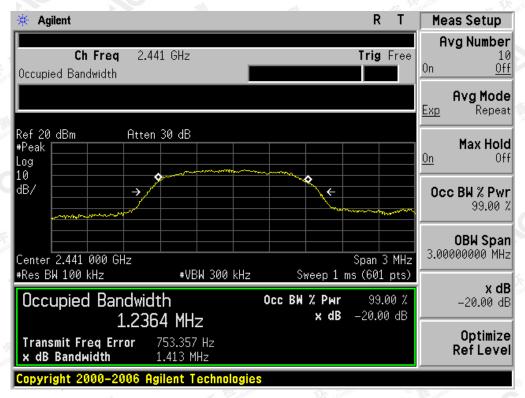
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



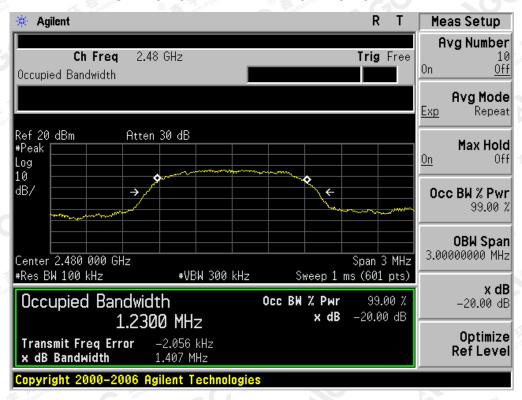
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Page 50 of 68

## 12. FCC LINE CONDUCTED EMISSION TEST

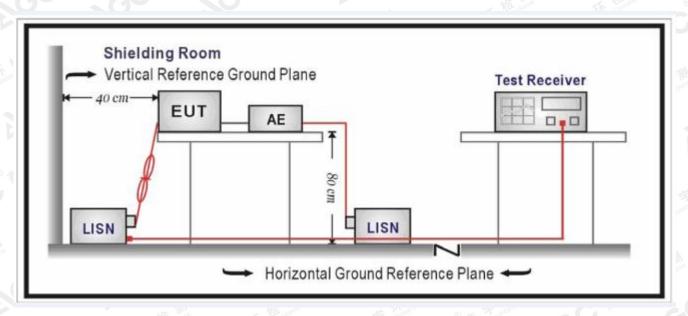
## 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF	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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Page 51 of 68

## 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

- 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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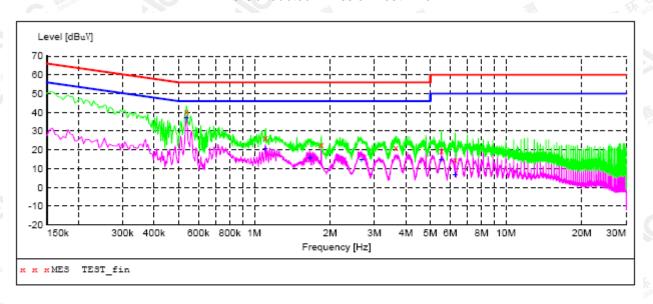
Page 52 of 68

## 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: "TEST fin"

2018/4/2 Freque	ncy Lev	vel Transd BuV dB		Margin dB	Detector	Line	PE
0.538	000 40	.40 11.4	56	15.6	QP	L1	FLO
1.110	000 26	.70 11.3	56	29.3	QP	L1	FLO
1.846	000 22	.80 11.3	56	33.2	QP	L1	FLO
3.654	000 20	.90 11.4	56	35.1	QP	L1	FLO
5.538	000 19	.60 11.4	60	40.4	QP	L1	FLO
6.274	000 14	.90 11.3	60	45.1	QP	L1	FLO

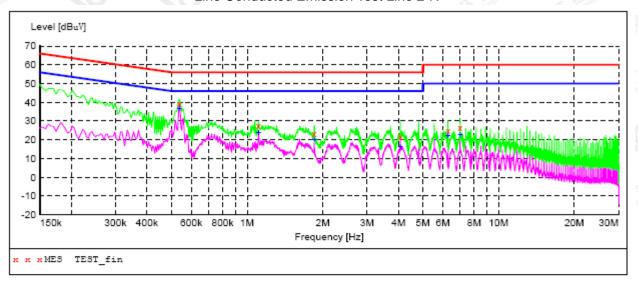
#### MEASUREMENT RESULT: "TEST fin2"

2018/4/2 14:2	0						
Frequency MHz	Level dBuV			Margin dB	Detector	Line	PE
0.538000	37.00	11.4	46	9.0	AV	L1	FLO
1.106000	20.60	11.3	46	25.4	AV	L1	FLO
1.666000	15.50	11.3	46	30.5	AV	L1	FLO
2.662000	14.70	11.4	46	31.3	AV	L1	FLO
5.538000	14.80	11.4	50	35.2	AV	L1	FLO
6.274000	6.60	11.3	50	43.4	AV	L1	FLO

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#### Line Conducted Emission Test Line 2-N



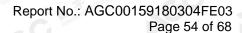
#### MEASUREMENT RESULT: "TEST fin"

2018/4/2 14:24 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.538000	39.40	11.4	56	16.6	QP	N	FLO
1.110000	27.40	11.3	56	28.6	QP	N	FLO
1.850000	23.40	11.3	56	32.6	QP	N	FLO
4.066000	21.70	11.4	56	34.3	QP	N	FLO
6.286000	24.70	11.3	60	35.3	QP	N	FLO
7.030000	26.20	11.2	60	33.8	QP	N	FLO

#### MEASUREMENT RESULT: "TEST fin2"

2018/4/2 14:24 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.538000	36.60	11.4	46	9.4	AV	N	FLO
1.110000	23.50	11.3	46	22.5	AV	N	FLO
1.850000	20.20	11.3	46	25.8	AV	N	FLO
4.066000	16.20	11.4	46	29.8	AV	N	FLO
6.286000	22.10	11.3	50	27.9	AV	N	FLO
7.030000	22.50	11.2	50	27.5	AV	N	FLO

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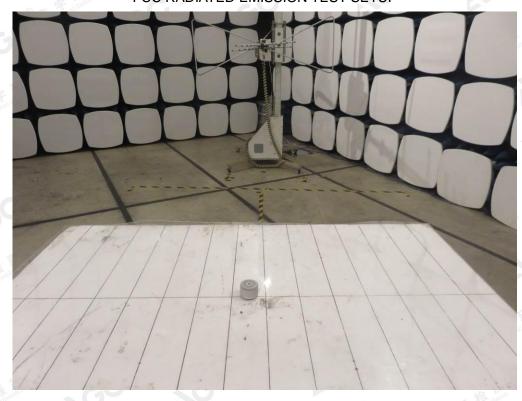


## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP

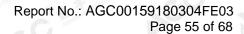


FCC RADIATED EMISSION TEST SETUP

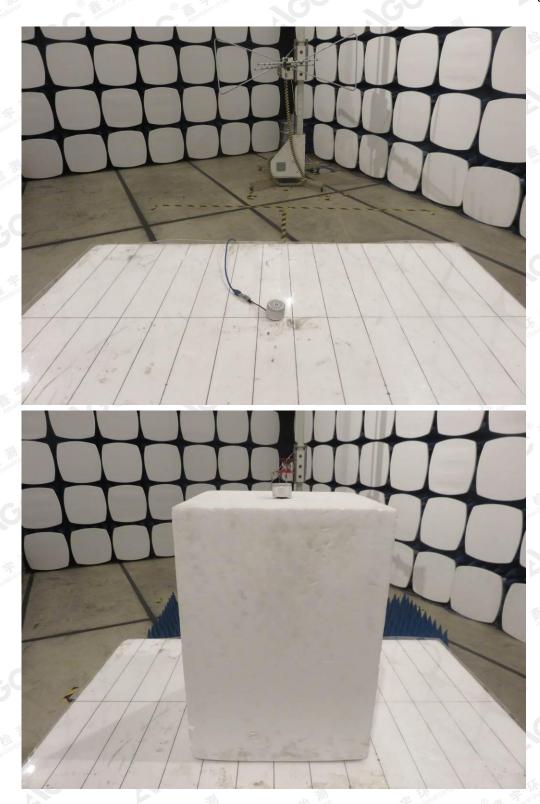


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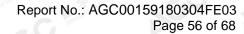
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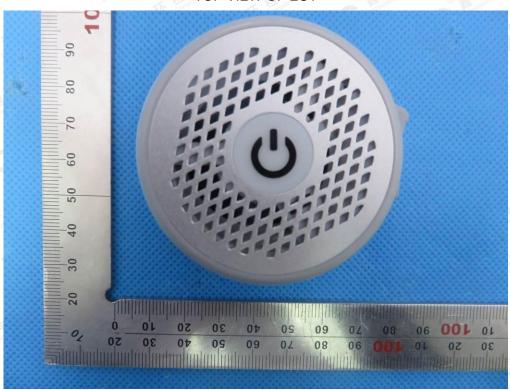


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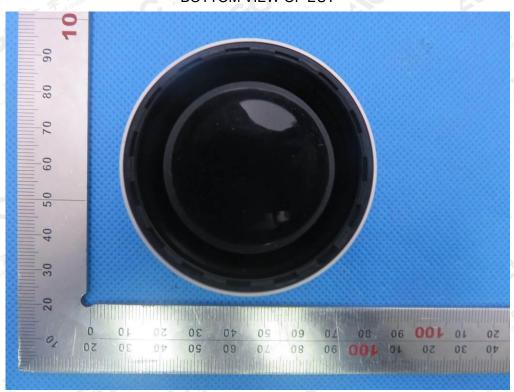


### APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



**BOTTOM VIEW OF EUT** 



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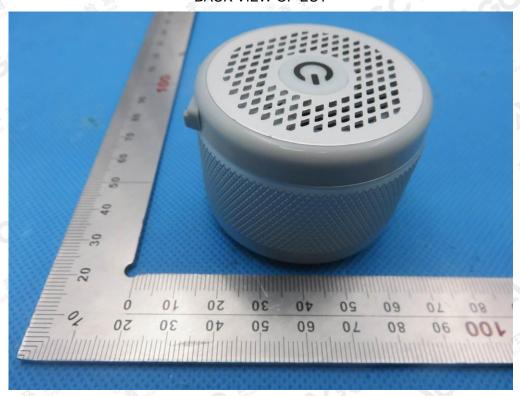
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## FRONT VIEW OF EUT



**BACK VIEW OF EUT** 



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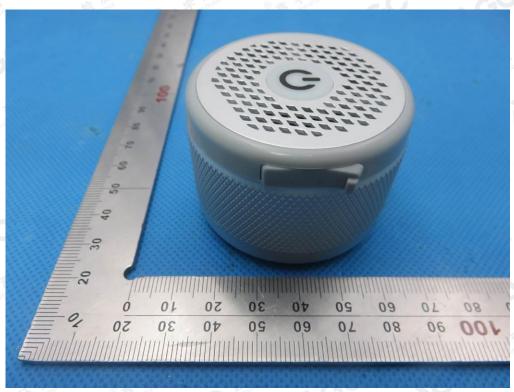
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## LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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## VIEW OF EUT (PORT)



**OPEN VIEW OF EUT** 

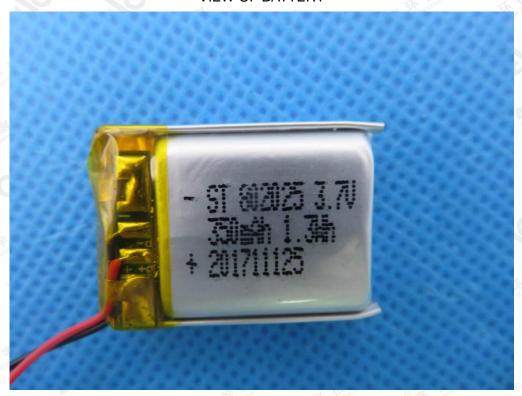


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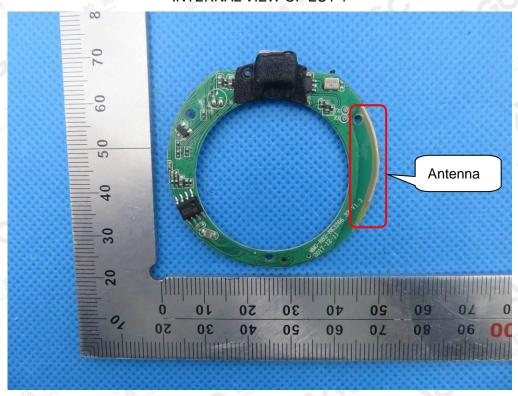
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#### VIEW OF BATTERY



**INTERNAL VIEW OF EUT-1** 

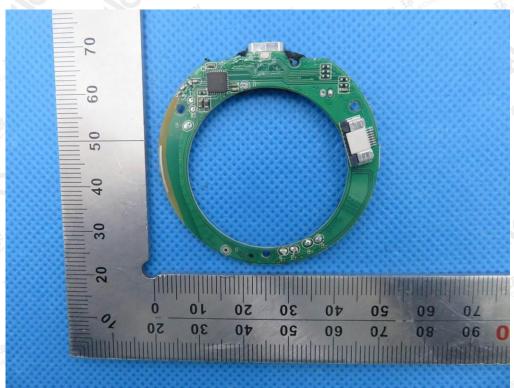


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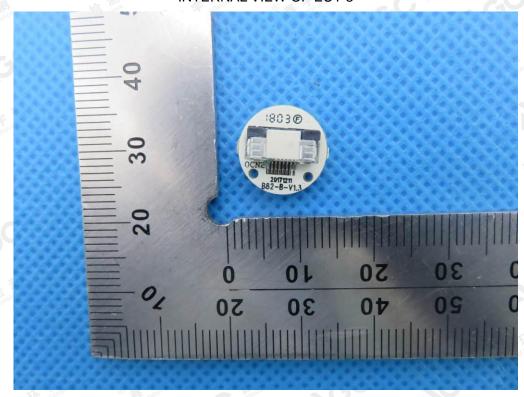
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## **INTERNAL VIEW OF EUT-2**



**INTERNAL VIEW OF EUT-3** 

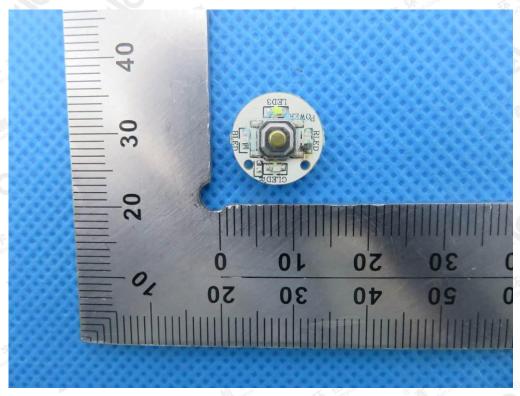


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## **INTERNAL VIEW OF EUT-4**



**INTERNAL VIEW OF EUT-5** 



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## **VIEW OF ADAPTER(AE)**



The adapter was supplied by AGC

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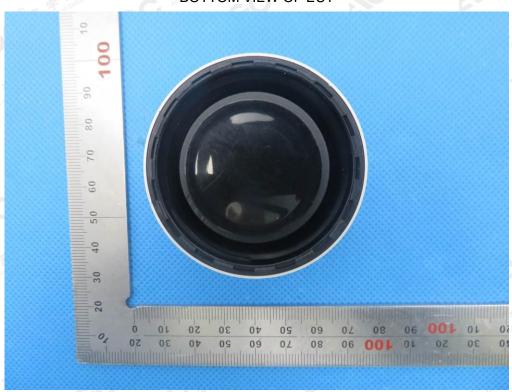


# **Other Color Sample**

TOP VIEW OF EUT



**BOTTOM VIEW OF EUT** 



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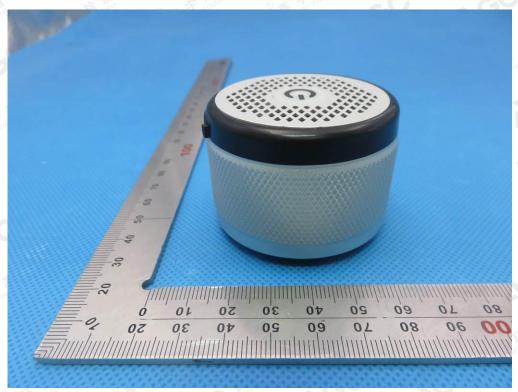
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## FRONT VIEW OF EUT



**BACK VIEW OF EUT** 

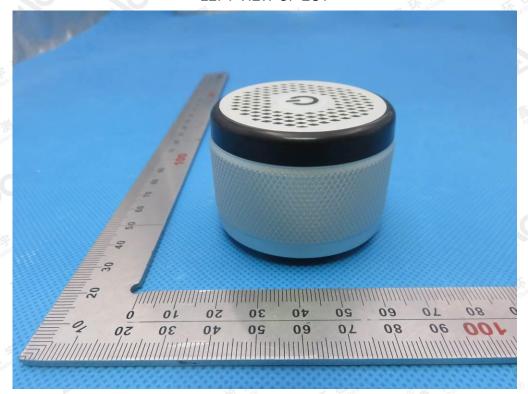


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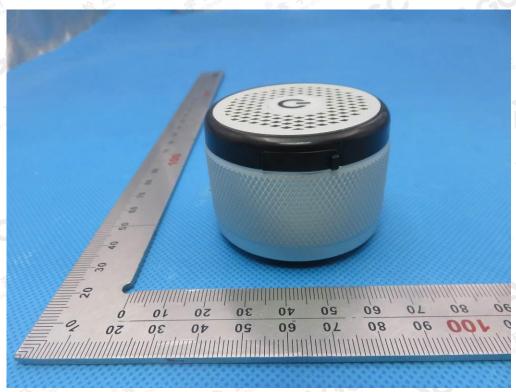
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## LEFT VIEW OF EUT

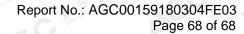


RIGHT VIEW OF EUT



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# VIEW OF EUT (PORT)



----END OF REPORT----

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