

FCC Test Report

Report No.: AGC00454180403FE03

FCC ID : 2AL9B-60011BT

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Bluetooth Speaker

BRAND NAME : S.LAI

MODEL NAME : VTL60011BT

CLIENT: SHENZHEN SHENGLAI TECHNOLOGY CO., LIMITED

DATE OF ISSUE : Apr. 24, 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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Page 2 of 61

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	plience / © Marie	Apr. 24, 2018	Valid	Initial release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	
2.1. PRODUCT DESCRIPTION	5
3. MEASUREMENT UNCERTAINTY	6
4. DESCRIPTION OF TEST MODES	
5. SYSTEM TEST CONFIGURATION	
5.1. CONFIGURATION OF EUT SYSTEM 5.2. EQUIPMENT USED IN EUT SYSTEM 5.3. SUMMARY OF TEST RESULTS	8 8
6. TEST FACILITY	10
7.TEST METHOD	11
8. TEST EQUIPMENT LIST	
9. RADIATED EMISSION	12
9.1TEST LIMIT 9.2. MEASUREMENT PROCEDURE 9.3. TEST SETUP 9.4. TEST RESULT	12
10. BAND EDGE EMISSION	38
10.1. MEASUREMENT PROCEDURE 10.2 TEST SETUP 10.3 RADIATED TEST RESULT	38 39
11. 20DB BANDWIDTH	43
11.1. MEASUREMENT PROCEDURE	43
12. FCC LINE CONDUCTED EMISSION TEST	
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	49 49
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	52
APPENDIX B. PHOTOGRAPHS OF FUT	55

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age 4 of 61

1. VERIFICATION OF CONFORMITY

Applicant	SHENZHEN SHENGLAI TECHNOLOGY CO.,LIMITED				
Address	ROOM 709, BLOCK B, XINTIAN CENTURY BUSINESS CENTRE, FUMING ROAD, FUTIAN DISTRICT, SHENZHEN, CHINA				
Manufacturer	SHENZHEN SHENGLAI TECHNOLOGY CO.,LIMITED				
Address	ROOM 709, BLOCK B, XINTIAN CENTURY BUSINESS CENTRE, FUMING ROAD, FUTIAN DISTRICT, SHENZHEN, CHINA				
Product Designation	Bluetooth Speaker				
Brand Name	S.LAI				
Test Model	VTL60011BT				
Date of test	Apr. 11, 2018 to Apr. 20, 2018				
Deviation	None				
Condition of Test Sample	Normal State of the State of th				
Report Template	AGCRT-US-BR/RF				

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		Jorden Wan	M F The action of the second	
The Action of Computation (S. Francisco)	Jonhen War	ng(Wang Yonghua	n) Apr. 20, 20)18
		-owest o	C. M. Aller	
Reviewed By	Forrest L	ei(Lei Yonggang)	Apr. 24, 20)18

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Page 5 of 61

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	-7.65dBm(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	V1.0
Software Version	V1.0
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
	0 F. T.	2402MHz
	2C1	2403MHz
		11 . 环境温
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40 0	2442 MHz
		大型 · 大型 · 多类
	77	2479 MHz
	78	2480 MHz

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Page 6 of 61

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

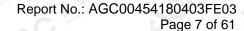
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
® All Jord Cool	Low channel GFSK
2 60	Middle channel GFSK
3	High channel GFSK
4 1	Low channel π /4-DQPSK
8 5 June of Global	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	BT Link with charging
A STATE OF THE STA	BT Link

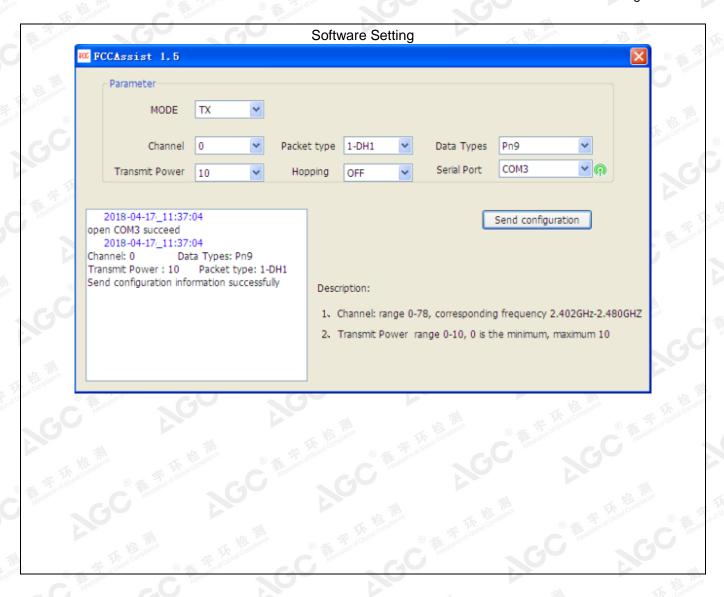
Note:

- 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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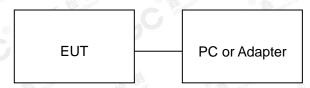


Page 8 of 61

5. SYSTEM TEST CONFIGURATION

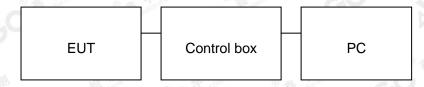
5.1. CONFIGURATION OF EUT SYSTEM

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	Bluetooth Speaker	S.LAI	VTL60011BT	EUT
2	Battery	SF SF	18650	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	GZUT	N/A	A.E.
5	Adapter	IPRO	NTR-S01	A.E
6	USB Cable	N/A	1m unshielded	A.E
7	AUX in Cable	N/A	1m unshielded	A.E
8	IPOD	APPLE	A1367	A.E

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Page 9 of 61

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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Page 10 of 61

6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd				
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012				
NVLAP Lab Code	600153-0				
Designation Number	CN5028				
Test Firm Registration Number	682566				
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0				

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age 11 of 61

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, 2018	Feb. 28, 2020
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018
Filter (2.4-2.483GHz)	Micro-tronics	087	- C	Jun.20, 2017	Jun.19, 2018

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Page 12 of 61

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 Str	engths 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 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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Page 13 of 61

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 61

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

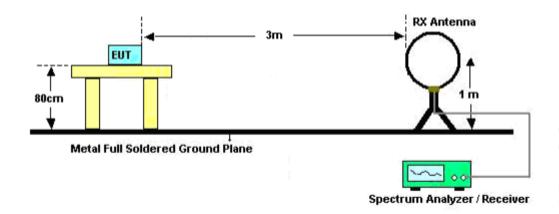
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz 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

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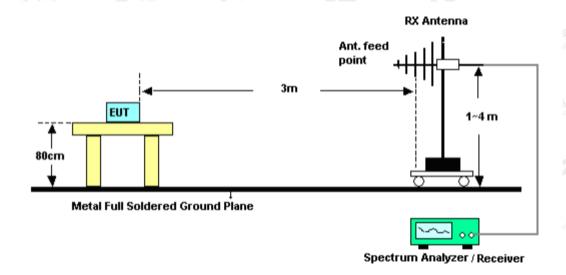


9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

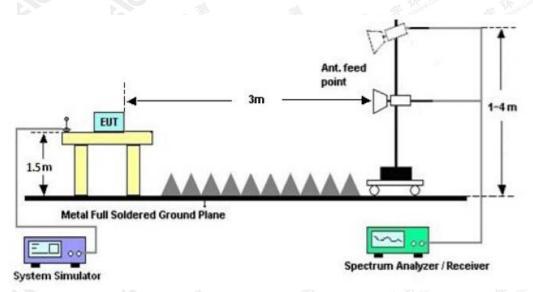


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Page 16 of 61

RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Page 17 of 61

9.4. TEST RESULT

FOR BR/EDR

(Worst modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

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

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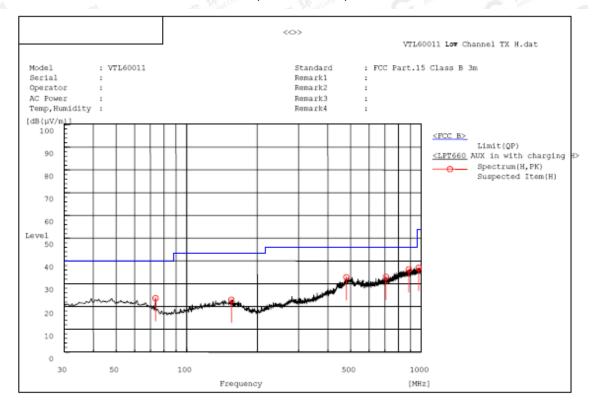
Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



Page 18 of 61

RADIATED EMISSION BELOW 1GHz

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



A. Suspected List:

Frequency MHz	Polarization	olarization Reading dB(uV)		Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
73.650	H	10.3	13.4	23.7	40.0	16.3	Pass	200.0	263.6
155.130	H	6.3	16.6	22.9	43.5	20.6	Pass	150.0	209.3
479.595	Н	10.2	22.6	32.8	46.0	13.2	Pass	200.0	180.5
707.060	Н	6.5	26.5	33.0	46.0	13.0	Pass	100.0	311.0
885.055	Н	6.3	30.0	36.3	46.0	9.7	Pass	200.0	119.2
974.780	Н	6.1	30.9	37.0	54.0	17.0	Pass	150.0	339.9

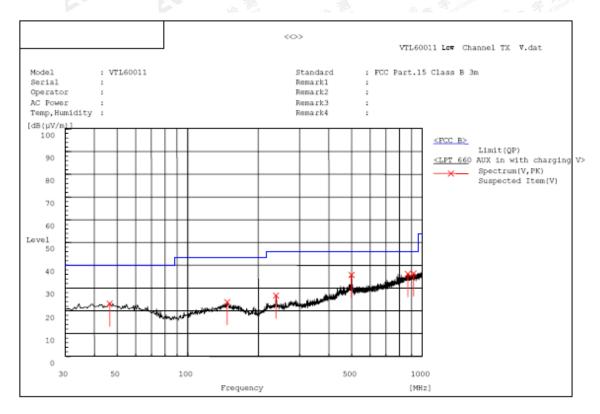
RESULT: PASS

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



A. Suspected List:

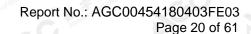
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
46.490	V	6.0	17.2	23.2	40.0	16.8	Pass	150.0	75.3
147.370	V	7.2	16.6	23.8	43.5	19.7	Pass	150.0	90.4
238.065	V	10.5	16.2	26.7	46.0	19.3	Pass	150.0	91.6
499.480	V	12.8	22.9	35.7	46.0	10.3	Pass	150.0	110.4
867.595	V	6.4	29.8	36.2	46.0	9.8	Pass	100.0	174.4
918.520	V	6.1	30.4	36.5	46.0	9.5	Pass	150.0	38.8

RESULT: PASS

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

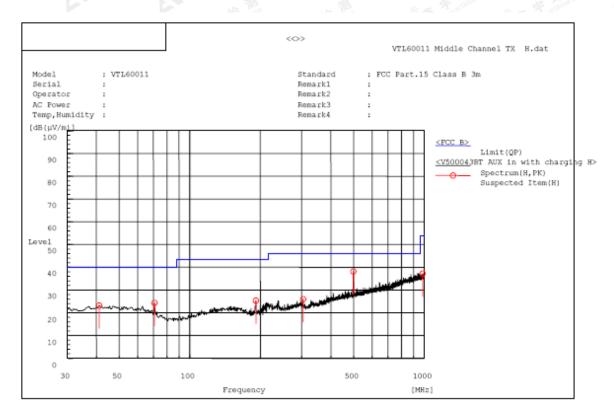
2. The "Factor" value can be calculated automatically by software of measurement system.

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



A. Suspected List:

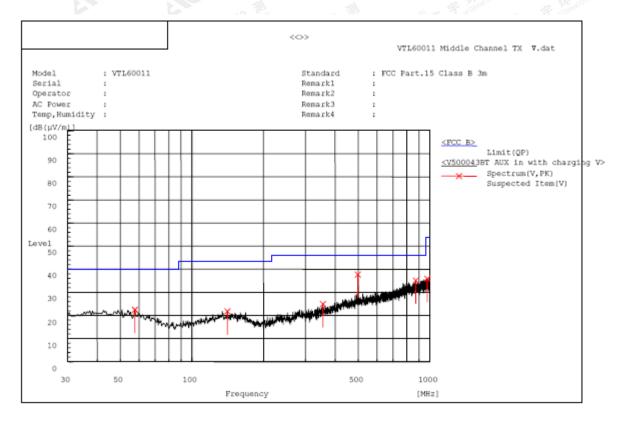
Frequency MHz	Polarization	larization Reading dB(uV)		Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
41.155	H	5.7	17.4	23.1	40.0	16.9	Pass	150.0	210.3
70.740	H	10.1	14.2	24.3	40.0	15.7	Pass	150.0	95.8
191.505	H	11.6	13.7	25.3	43.5	18.2	Pass	100.0	287.4
304.510	Н	8.4	17.5	25.9	46.0	20.1	Pass	100.0	284.2
498.510	Н	15.2	22.9	38.1	46.0	7.9	Pass	100.0	61.2
985.450	Н	6.2	31.0	37.2	54.0	16.8	Pass	150.0	312.7

RESULT: PASS

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



A. Suspected List:

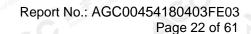
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
57.645	v	6.0	16.5	22.5	40.0	17.5	Pass	200.0	94.0
141.065	V	5.2	16.6	21.8	43.5	21.7	Pass	200.0	94.0
355.435	v	5.8	19.1	24.9	46.0	21.1	Pass	200.0	94.0
498.025	v	14.9	22.8	37.7	46.0	8.3	Pass	200.0	94.0
872.930	V	5.2	29.9	35.1	46.0	10.9	Pass	200.0	94.0
975.750	V	4.9	30.9	35.8	54.0	18.2	Pass	200.0	94.0

RESULT: PASS

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

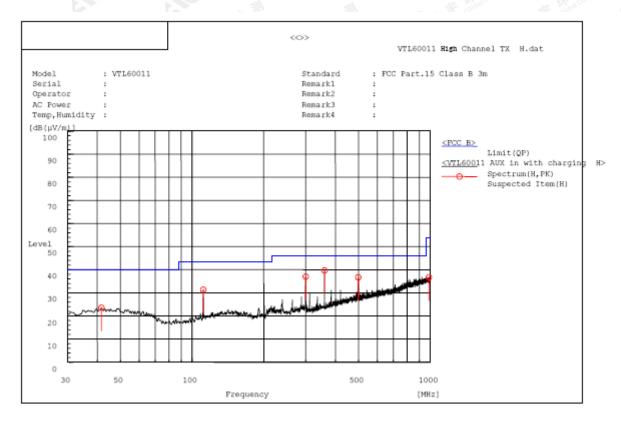
2. The "Factor" value can be calculated automatically by software of measurement system.

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



A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u√/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
41.640	Н	6.1	17.4	23.5	40.0	16.5	Pass	100.0	133.0
111.480	Н	16.7	14.7	31.4	43.5	12.1	Pass	150.0	350.7
300.145	Н	19.6	17.4	37.0	46.0	9.0	Pass	100.0	47.4
359.800	Н	20.3	19.3	39.6	46.0	6.4	Pass	100.0	331.7
498.995	Н	13.8	22.9	36.7	46.0	9.3	Pass	150.0	313.0
986.420	Н	5.7	31.0	36.7	54.0	17.3	Pass	100.0	38.0

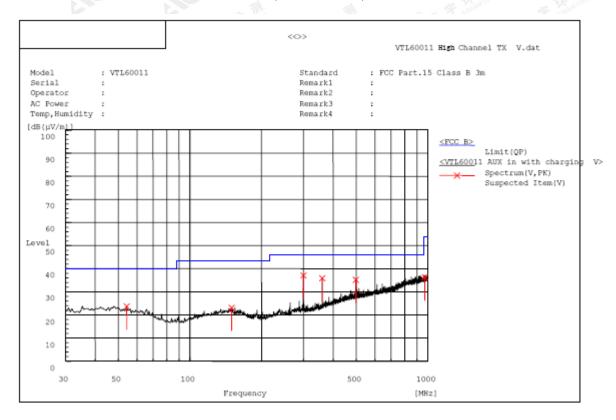
RESULT: PASS

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Page 23 of 61

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



A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
54.250	v	6.9	16.8	23.7	40.0	16.3	Pass	100.0	338.8
149.795	v	6.5	16.6	23.1	43.5	20.4	Pass	100.0	73.6
300.145	v	19.7	17.4	37.1	46.0	8.9	Pass	150.0	12.7
359.800	v	16.6	19.3	35.9	46.0	10.1	Pass	100.0	70.4
498.510	v	12.3	22.9	35.2	46.0	10.8	Pass	100.0	94.2
970.900	v	5.5	30.8	36.3	54.0	17.7	Pass	100.0	196.7

RESULT: PASS

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

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

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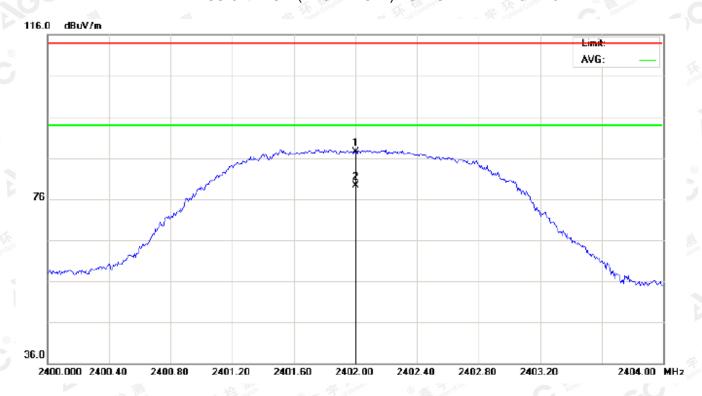
Page 24 of 61

RADIATED EMISSION ABOVE 1GHz FOR BR/EDR

(Worst modulation: GFSK)

For Fundamental

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	77.23	10.32	87.55	114.00	-26.45	peak			
2	*	2402.000	69.03	10.32	79.35	94.00	-14.65	AVG	100	321	

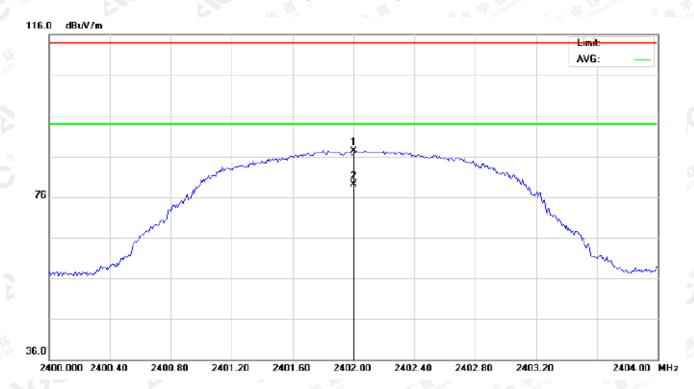
RESULT: PASS

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Page 25 of 61

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	76.99	10.32	87.31	114.00	-26.69	peak			
2	*	2402.000	68.70	10.32	79.02	94.00	-14.98	AVG	100	154	

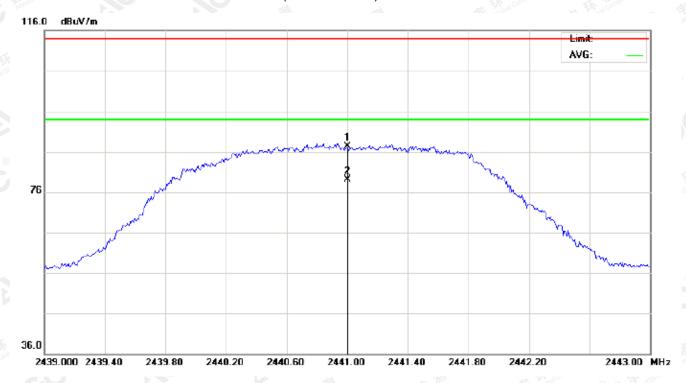
RESULT: PASS

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Page 26 of 61

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	1	cm	degree	
1		2441.000	76.85	10.36	87.21	114.00	-26.79	peak			
2	*	2441.000	68.55	10.36	78.91	94.00	-15.09	AVG	100	302	

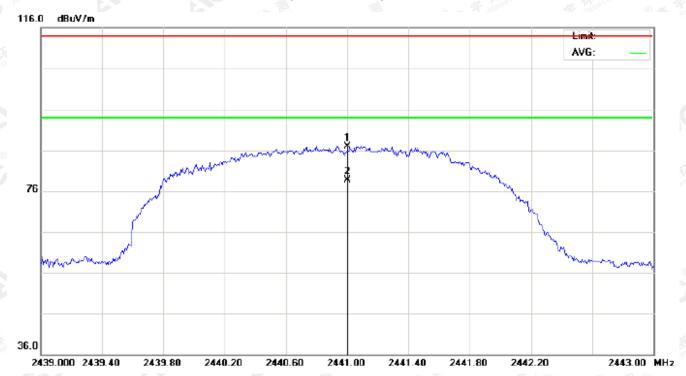
RESULT: PASS

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Page 27 of 61

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	76.53	10.36	86.89	114.00	-27.11	peak			
2	*	2441.000	68.32	10.36	78.68	94.00	-15.32	AVG	100	124	

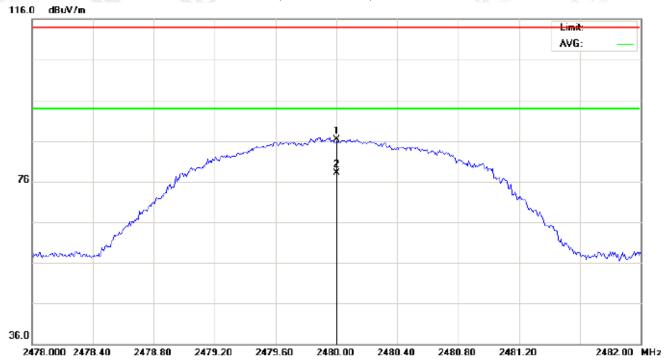
RESULT: PASS

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Page 28 of 61

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	75.93	10.41	86.34	114.00	-27.66	peak			
2	*	2480.000	67.73	10.41	78.14	94.00	-15.86	AVG	100	332	

RESULT: PASS

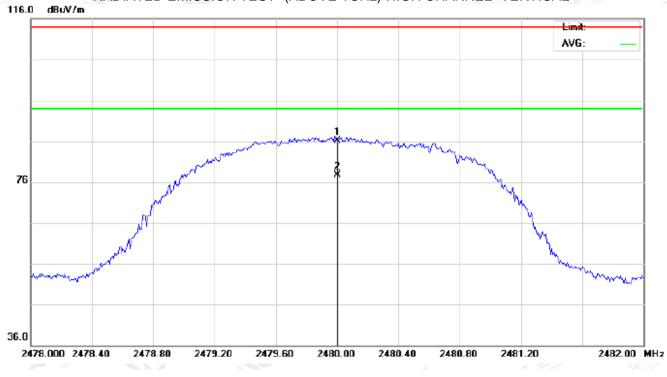
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Page 29 of 61

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	75.60	10.41	86.01	114.00	-27.99	peak			
2	*	2480.000	67.37	10.41	77.78	94.00	-16.22	AVG	100	101	

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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Page 30 of 61

Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	77.23	10.32	87.55	114	-26.45	Horizontal	
2402	76.99	10.32	87.31	114	-26.69	Vertical	
2441	76.85	10.36	87.21	114	-26.79	Horizontal	
2441	76.53	10.36	86.89	114	-27.11	Vertical	
2480	75.93	10.41	86.34	114	-27.66	Horizontal	
2480	75.60	10.41	86.01	114	-27.99	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	69.03	10.32	79.35	94	-14.65	Horizontal
2402	68.70	10.32	79.02	94	-14.98	Vertical
2441	68.55	10.36	78.91	94	-15.09	Horizontal
2441	68.32	10.36	78.68	94	-15.32	Vertical
2480	67.73	10.41	78.14	94	-15.86	Horizontal
2480	67.37	10.41	77.78	94	-16.22	Vertical

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Page 31 of 61

2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.87	10.32	87.19	114	-26.81	Horizontal
2402	76.61	10.32	86.93	114	-27.07	Vertical
2441	76.38	10.36	86.74	114	-27.26	Horizontal
2441	76.19	10.36	86.55	114	-27.45	Vertical
2480	75.56	10.41	85.97	114	-28.03	Horizontal
2480	75.11	10.41	85.52	114	-28.48	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	68.57	10.32	78.89	94	-15.11	Horizontal
2402	68.39	10.32	78.71	94	-15.29	Vertical
2441	68.25	10.36	78.61	94	-15.39	Horizontal
2441	68.00	10.36	78.36	94	-15.64	Vertical
2480	67.37	10.41	77.78	94	-16.22	Horizontal
2480	67.04	10.41	77.45	94	-16.55	Vertical

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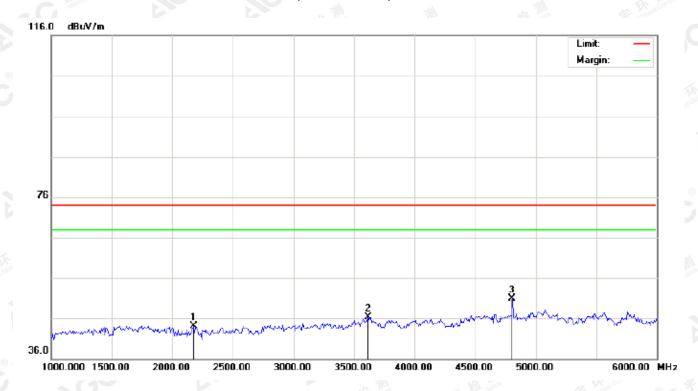
age 32 of 61

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		2175.000	34.00	10.07	44.07	74.00	-29.93	peak			
2		3616.667	33.55	12.83	46.38	74.00	-27.62	peak			
3	*	4804.000	43.21	7.69	50.90	74.00	-23.10	peak			

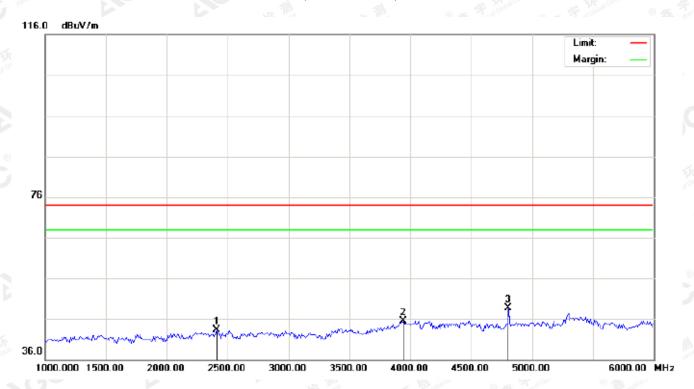
RESULT: PASS

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Page 33 of 61

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	l
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2408.333	32.93	10.33	43.26	74.00	-30.74	peak			
2		3941.667	30.73	14.83	45.56	74.00	-28.44	peak			
3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

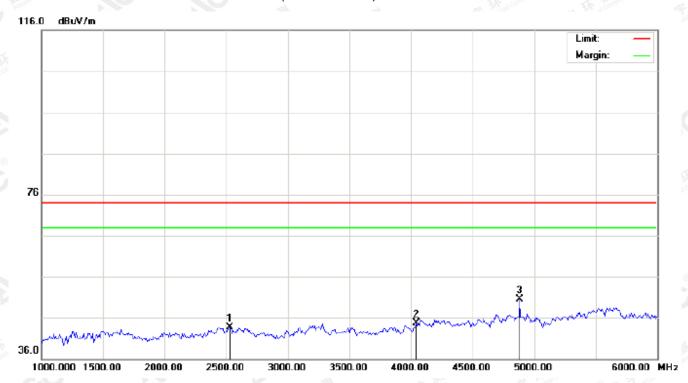
RESULT: PASS

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Page 34 of 61

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	33.18	10.51	43.69	74.00	-30.31	peak			
2		4041.667	30.19	14.50	44.69	74.00	-29.31	peak			
3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

RESULT. PASS

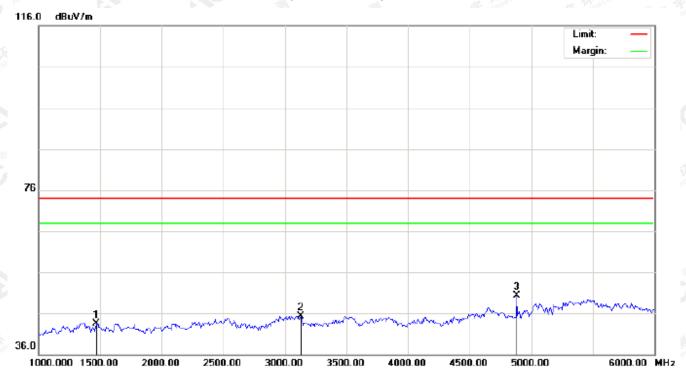
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Page 35 of 61

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		1466.667	38.96	4.61	43.57	74.00	-30.43	peak			
2		3133.333	33.54	11.77	45.31	74.00	-28.69	peak			
3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

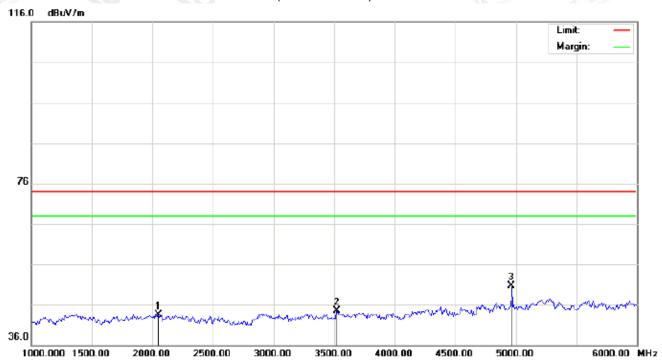
RESULT: PASS

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Page 36 of 61

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		2050.000	33.62	9.93	43.55	74.00	-30.45	peak			
2		3525.000	32.29	12.26	44.55	74.00	-29.45	peak			
3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak			

RESULT. PASS

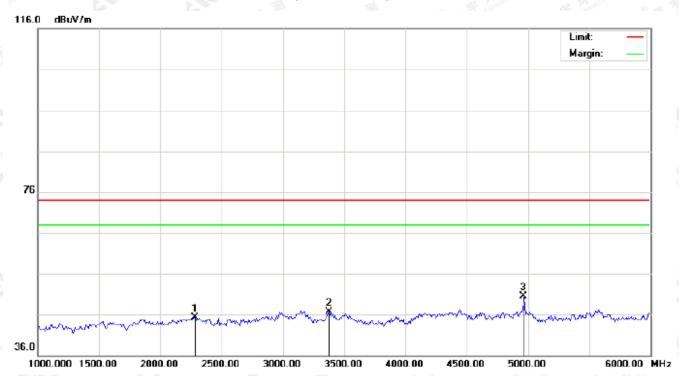
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Page 37 of 61

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		2283.333	35.05	10.19	45.24	74.00	-28.76	peak			
2		3375.000	34.79	11.99	46.78	74.00	-27.22	peak			
3	*	4960.000	42.41	8.09	50.50	74.00	-23.50	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 61

10. BAND EDGE EMISSION

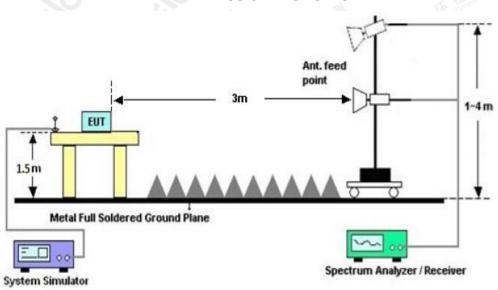
10.1. MEASUREMENT PROCEDURE

- 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 frequency(MHz)	Stop frequency(MHz)		
2200	2405		
2478	2500		

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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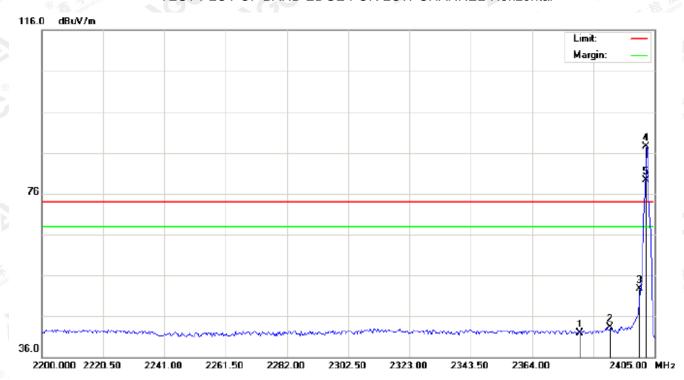
Page 39 of 61

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		2380.058	31.56	10.30	41.86	74.00	-32.14	peak			
2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	77.19	10.32	87.51	74.00	13.51	peak			
5	Х	2402.000	69.02	10.32	79.34	74.00	5.34	AVG	100	305	

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Page 40 of 61

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



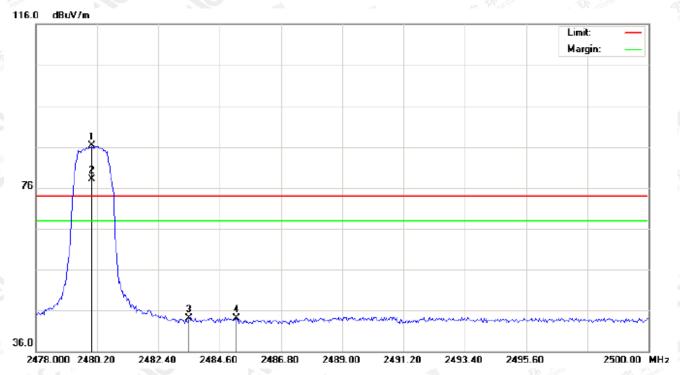
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2375.616	31.29	10.29	41.58	74.00	-32.42	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	76.98	10.32	87.30	74.00	13.30	peak			
5	Х	2402.000	68.70	10.32	79.02	74.00	5.02	AVG	100	100	

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Page 41 of 61

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



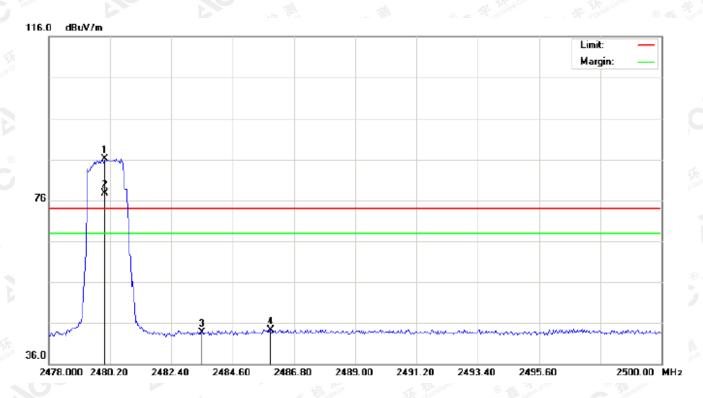
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	75.91	10.41	86.32	74.00	12.32	peak			
2	Х	2480.000	67.71	10.41	78.12	74.00	4.12	AVG	100	341	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2485.187	33.78	10.41	44.19	74.00	-29.81	peak			

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Page 42 of 61

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	75.61	10.41	86.02	74.00	12.02	peak			
2	Х	2480.000	67.36	10.41	77.77	74.00	3.77	AVG	100	154	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2485.957	33.98	10.41	44.39	74.00	-29.61	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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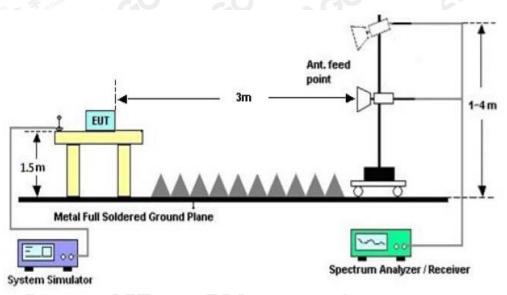
Page 43 of 61

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

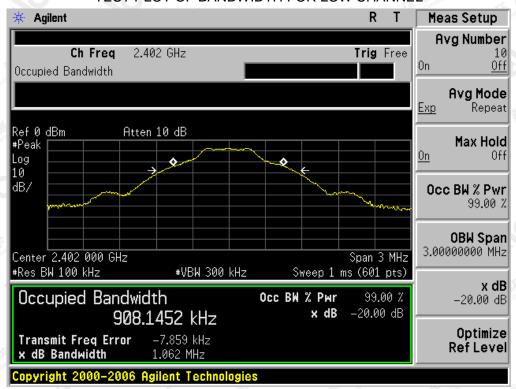
FOR BR/EDR

BLUET	OOTH 1MBPS LIN	MITS AND MEASU	REMENT RESULT	
		Measure	ement Result	
Applicable Limits		Test Data (MHz)		Result
		99%OBW (MHz)	-20dB BW(MHz)	Result
Solar Complete G State abort of Cal	Low Channel	0.908	1.062	PASS
N/A	Middle Channel	0.899	1.050	PASS
- FIN	High Channel	0.899	1.053	PASS

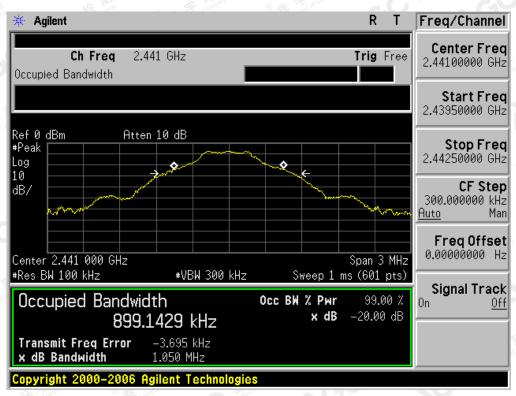
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



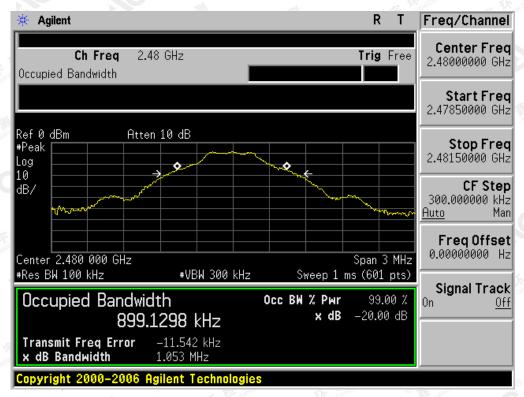
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



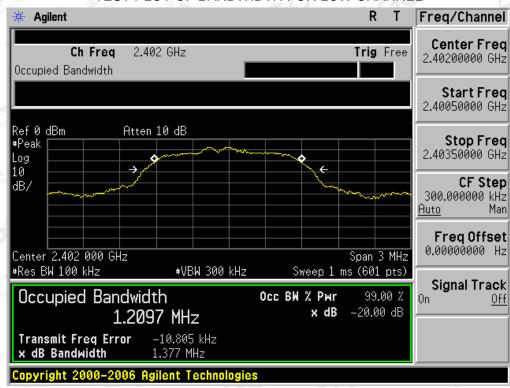
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Page 46 of 61

BLUETO	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT	
		Measure	ement Result	
Applicable Limits		Test Data (MHz)		Decult
		99%OBW (MHz)	-20dB BW(MHz)	Result
TO THE	Low Channel	1.210	1.377	PASS
N/A	Middle Channel	1.212	1.356	PASS
	High Channel	1.211	1.354	PASS

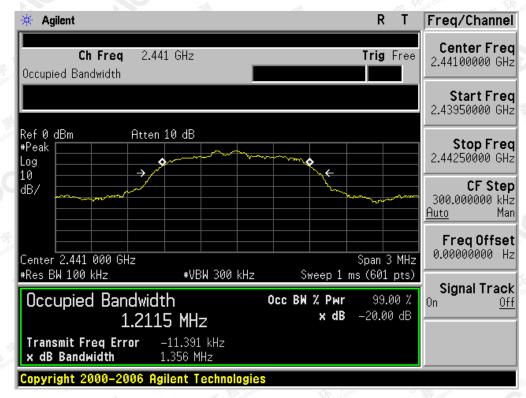
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



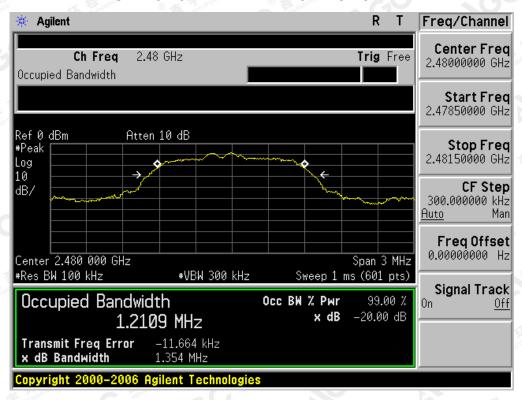
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Page 48 of 61

12. FCC LINE CONDUCTED EMISSION TEST

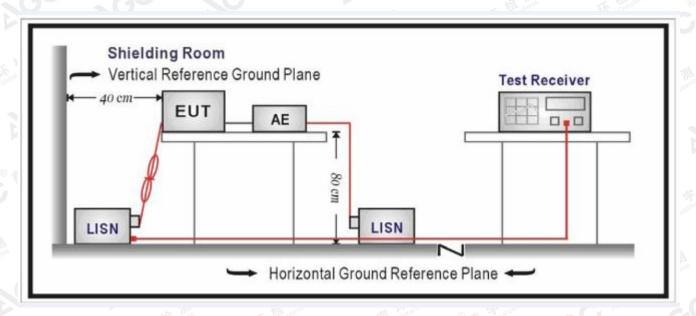
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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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Page 49 of 61

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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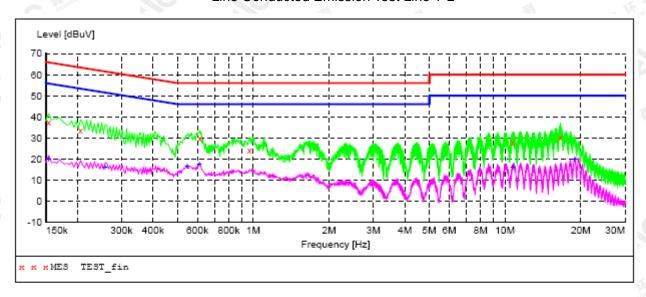
Page 50 of 61

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"

2018/4/13 15	5:30						
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.154000	37.60	11.4	66	28.2	QP	L1	FLO
0.206000	33.70	11.4	63	29.7	QP	L1	FLO
0.614000	29.80	11.4	56	26.2	QP	L1	FLO
0.966000	24.30	11.3	56	31.7	QP	L1	FLO
10.726000	28.00	11.4	60	32.0	QP	L1	FLO
16.578000	30.50	11.0	60	29.5	QP	L1	FLO

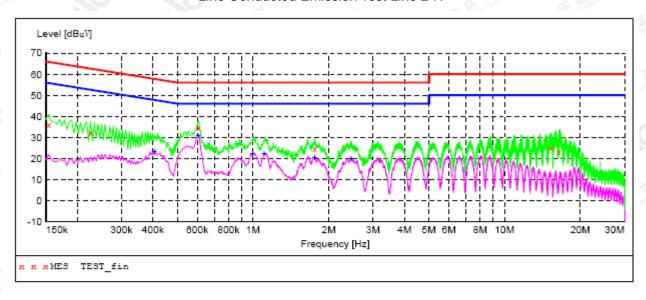
MEASUREMENT RESULT: "TEST fin2"

2018/4/13 15 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.154000	19.70	11.4	56	36.1	AV	L1	FLO
0.258000	16.30	11.3	52	35.2	AV	L1	FLO
0.546000	16.50	11.4	46	29.5	AV	L1	FLO
0.610000	17.40	11.4	46	28.6	AV	L1	FLO
10.726000	16.20	11.4	50	33.8	AV	L1	FLO
18.958000	19.80	10.9	50	30.2	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST fin"

201	~ / ~	/ a - c	4 5 0 4
			15.34

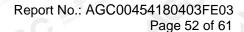
21	118/4/13 15:	34						
	Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
	0.154000	36.20	11.4	66	29.6	QP	N	FLO
	0.226000	32.30	11.3	63	30.3	QP	N	FLO
	0.606000	34.60	11.4	56	21.4	QP	N	FLO
	1.758000	24.70	11.3	56	31.3	QP	N	FLO
	15.246000	25.10	11.0	60	34.9	QP	N	FLO
	16.430000	23.10	11.0	60	36.9	QP	N	FLO

MEASUREMENT RESULT: "TEST fin2"

201			100 0		_	0.4
2111	- H /	4	/ 1 -	(1	ς.	34

Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.406000	23.10	11.4	48	24.6	AV	N	FLO
0.606000	30.70	11.4	46	15.3	AV	N	FLO
0.994000	22.20	11.3	46	23.8	AV	N	FLO
1.106000	22.20	11.3	46	23.8	AV	N	FLO
1.758000	20.30	11.3	46	25.7	AV	N	FLO
2.454000	20.00	11.3	46	26.0	AV	N	FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

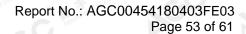
FCC LINE CONDUCTED EMISSION TEST SETUP



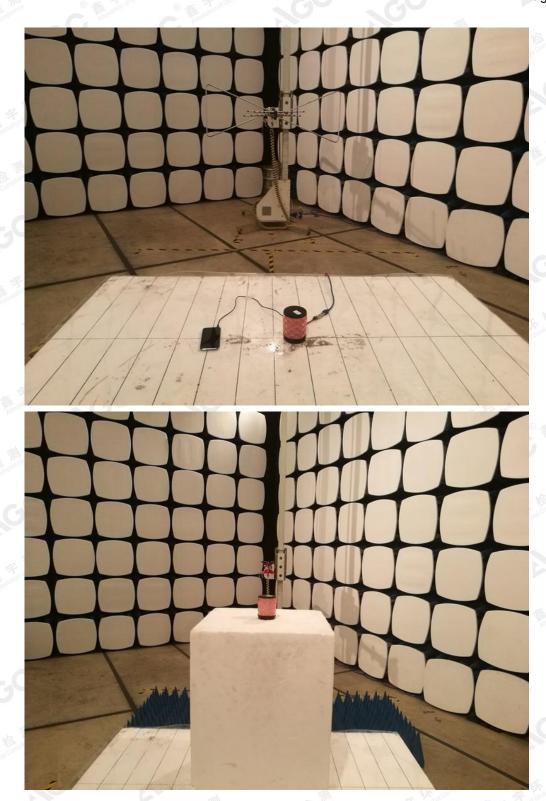
FCC RADIATED EMISSION TEST SETUP



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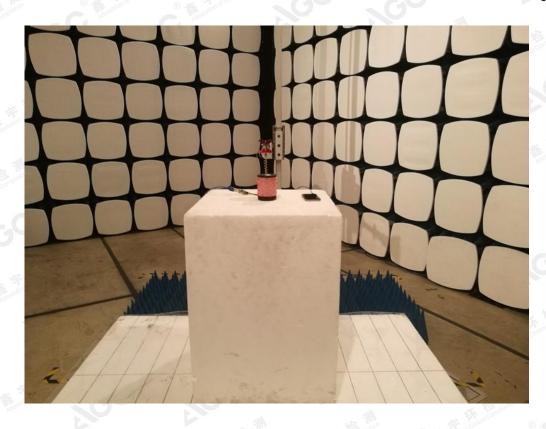




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Page 54 of 61

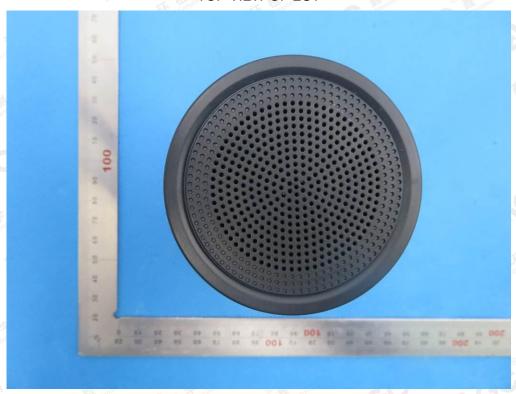


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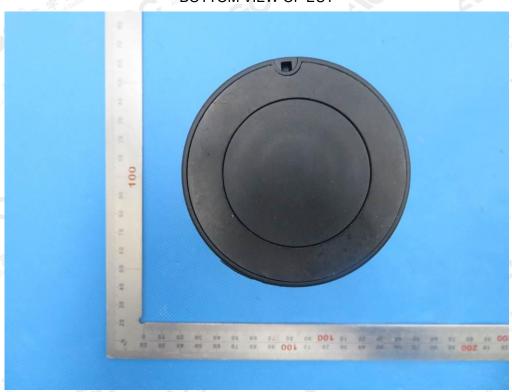


APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



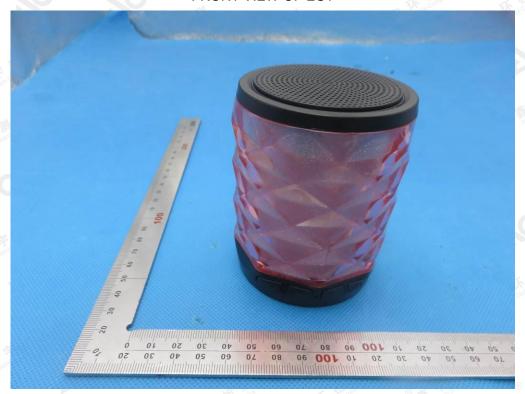
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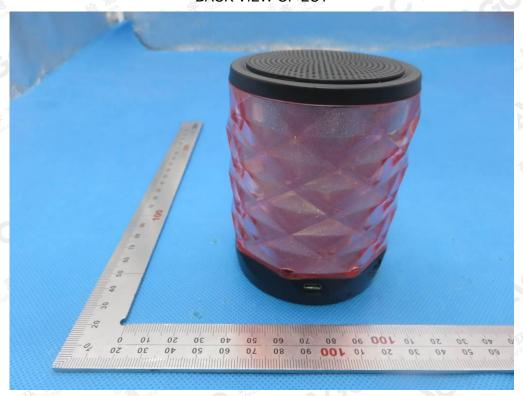
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FRONT VIEW OF EUT



BACK VIEW OF EUT



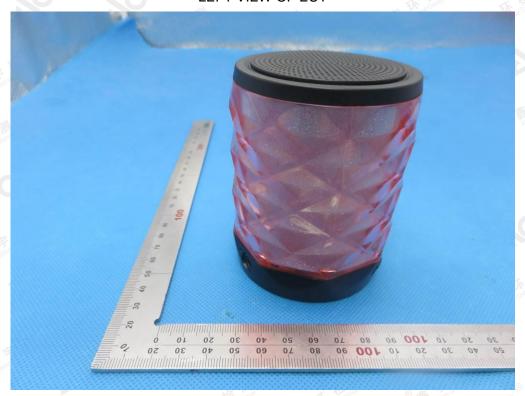
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LEFT VIEW OF EUT



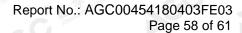
RIGHT VIEW OF EUT



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VIEW OF EUT (PORT)-1



VIEW OF EUT (PORT)-2



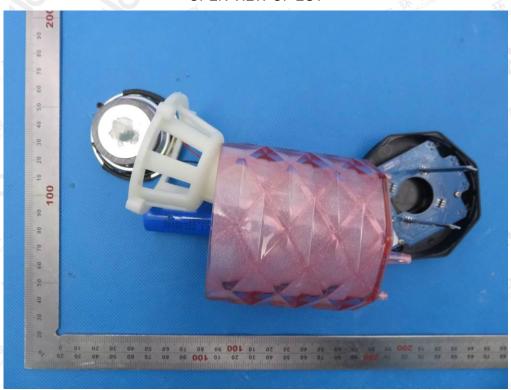
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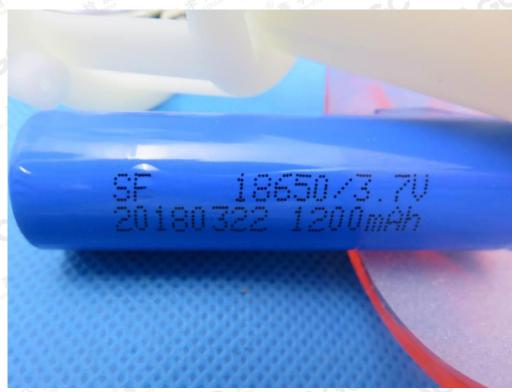
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OPEN VIEW OF EUT



VIEW OF BATTERY



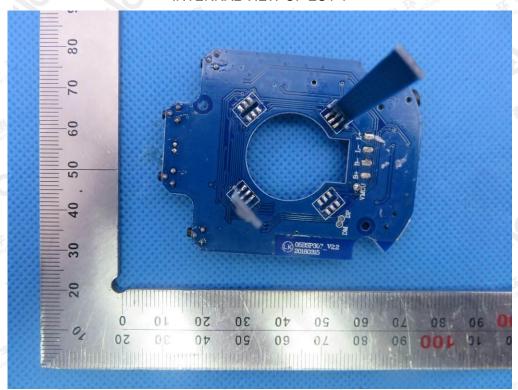
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



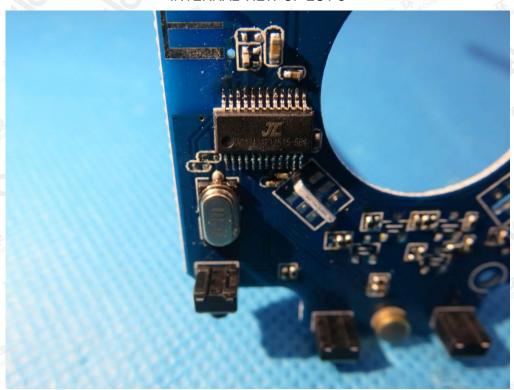
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INTERNAL VIEW OF EUT-3



VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

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