

FCC Test Report

Report No.: AGC08189190501FE03

FCC ID	: 2ACP4-BTBUD
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Bluetooth Earbud
BRAND NAME	: SENTRY
MODEL NAME	: BTBUD, BT175, BT120, BT450, BT875
CLIENT	: Sentry Industries Limited
DATE OF ISSUE	: Jun. 13, 2019
STANDARD(S)	: FCC Part 15.247
REPORT VERSION	: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jun. 13, 2019	Valid	Initial Release

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Report No.: AGC08189190501FE03 Page 3 of 67

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY		5
2. GENERAL INFORMATION		
2.1. PRODUCT DESCRIPTION	The Company	
2.2. TABLE OF CARRIER FREQUENCYS		
2.3. RECEIVER INPUT BANDWIDTH		7
2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE	<u></u>	7
2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR	S. S. S. Saland	7
2.6. RELATED SUBMITTAL(S) / GRANT (S)	- C	
2.7. TEST METHODOLOGY	<u> </u>	8
2.8. SPECIAL ACCESSORIES		
2.9. EQUIPMENT MODIFICATIONS	Calendary Calendary	
3. MEASUREMENT UNCERTAINTY	200	9
4. DESCRIPTION OF TEST MODES	• • • •	
5. SYSTEM TEST CONFIGURATION		
5.1. CONFIGURATION OF EUT SYSTEM		11
5.2 EQUIPMENT USED IN TESTED SYSTEM	<u>. 2</u>	
5.3. SUMMARY OF TEST RESULTS		11
6. TEST FACILITY		12
7. PEAK OUTPUT POWER		
7.1. MEASUREMENT PROCEDURE		
7.1. MEASUREMENT PROCEDURE		
7.3. LIMITS AND MEASUREMENT RESULT		
	and the stand	
8. 20DB BANDWIDTH		
8.1. MEASUREMENT PROCEDURE	9	
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)		
8.3. LIMITS AND MEASUREMENT RESULTS	<u> </u>	
9. CONDUCTED SPURIOUS EMISSION	<u> </u>	
9.1. MEASUREMENT PROCEDURE		
9.1. MEASUREMENT PROCEDURE		

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Report No.: AGC08189190501FE03 Page 4 of 67

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
9.3. MEASUREMENT EQUIPMENT USED	
9.4. LIMITS AND MEASUREMENT RESULT	
10. RADIATED EMISSION	37
10.1. MEASUREMENT PROCEDURE	
10.2. TEST SETUP	
10.3. LIMITS AND MEASUREMENT RESULT	
10.4. TEST RESULT	
11. NUMBER OF HOPPING FREQUENCY	
11.1. MEASUREMENT PROCEDURE	50
11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
11.3. MEASUREMENT EQUIPMENT USED	
11.4. LIMITS AND MEASUREMENT RESULT	50
12. TIME OF OCCUPANCY (DWELL TIME)	51
12.1. MEASUREMENT PROCEDURE	
12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
12.3. MEASUREMENT EQUIPMENT USED	
12.4. LIMITS AND MEASUREMENT RESULT	
13. FREQUENCY SEPARATION	55
13.1. MEASUREMENT PROCEDURE	
13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
13.3. MEASUREMENT EQUIPMENT USED	
13.4. LIMITS AND MEASUREMENT RESULT	
14. FCC LINE CONDUCTED EMISSION TEST	
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST	
14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	
14.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	
14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	
14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	60
APPENDIX B: PHOTOGRAPHS OF EUT	

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1. VERIFICATION OF CONFORMITY

Applicant	Sentry Industries Limited		
Address	Room 904, 9/F Chinachem Golden Plaza, 77 Mody Road, Tsimshatsui East, Kowloon, Hong Kong		
Manufacturer	rer Shantou Chaoyang Xinhuasheng Electronics Factory		
Address	Hengshan Village, Gurao Town, Chaoyang District, Shantou City, Guangdong Province.		
Factory	Shantou Chaoyang Xinhuasheng Electronics Factory		
Address	Hengshan Village, Gurao Town, Chaoyang District, Shantou City, Guangdong Province.		
Product Designation	Bluetooth Earbud		
Brand Name	SENTRY		
Test Model	BTBUD		
Series Model	BT175, BT120, BT450, BT875		
Difference description	All the same except for the model name		
Date of test	Jun. 06, 2019 to Jun. 13, 2019		
Deviation	None		
Condition of Test Sample	Normal		
Test Result	Pass of the second of the seco		
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, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC PART 15.247.

Tested By

Draven.li

Draven Li(Li Ming Liang)

Jun. 13, 2019

Reviewed By

Max Zhang

Max Zhang(Zhang Yi)

Jun. 13, 2019

Approved By

Forrest in

Forrest Lei(Lei Yonggang) Authorized Officer

Jun. 13, 2019

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Bluetooth Earbud". It is designed by way of utilizing the GFSK, Pi/4 DQPSK and 8DPSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz		
RF Output Power	0.903dBm(Max)		
Bluetooth Version	V 5.0		
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps		
Number of channels	79		
Hardware Version			
Software Version	V1		
Antenna Designation	PCB Antenna(Comply with requirements of the FCC part 15.203)		
Antenna Gain	-4dBi		
Power Supply	DC 3.7V by battery or DC 5V by adapter		

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
SC SC	0	2402MHZ
	the the state of t	2403MHZ
	38	2440 MHZ
2402~2480MHZ	39	2441 MHZ
	40	2442 MHZ
	77	2479 MHZ
	78	2480 MHZ

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Report No.: AGC08189190501FE03 Page 7 of 67

2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHZ, In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the

connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

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

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

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

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

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

2. Internal master clock

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

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

Regarding short transmissions the Bluetooth system has the following ehavior:

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

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Report No.: AGC08189190501FE03 Page 8 of 67

2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ACP4-BTBUD** filing to comply with the FCC PART 15.247 requirements.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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Report No.: AGC08189190501FE03 Page 9 of 67

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
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8$ dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time: Uc = ±2 %
- Uncertainty of Frequency: $Uc = \pm 2 \%$

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
Bandance 1	Low channel GFSK
0 2	Middle channel GFSK
6 3	High channel GFSK
4	Low channel π/4-DQPSK
5	Middle channel π/4-DQPSK
6	High channel π/4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	Hopping mode GFSK
11	Hopping mode π/4-DQPSK
12	Hopping mode 8DPSK

Note:

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

4. The test software is the AppoTech RF Control Kit_4.2.341 which can set the EUT into the individual test modes.

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Report No.: AGC08189190501FE03 Page 11 of 67

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :

EUT

Conducted Emission Configure :



5.2 EQUIPMENT USED IN TESTED SYSTEM

	Item Equipment Model No.		ID or Specification	Remark		
4	J.C	Bluetooth Earbud BTBUD		2ACP4-BTBUD	EUT	
).	2	Adapter	HW-052000	DC 5V/2A	AE	

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT		
15.247 (b)(1)	Compliant			
15.247 (a)(1)	20 dB Bandwidth	Compliant		
15.247 (d)	.247 (d) Conducted Spurious Emission			
15.209	Radiated Emission	Compliant		
15.247 (a)(1)(iii)	Number of Hopping Frequency	Compliant		
15.247 (a)(1)(iii)	5.247 (a)(1)(iii) Time of Occupancy			
15.247 (a)(1) Frequency Separation		Compliant		
15.207	Conducted Emission	Compliant		

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6. TEST FACILITY

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

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 28, 2018	Aug. 27, 2019

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 27, 2019	Feb. 26, 2020
Attenuator	ZHINAN	E-002	N/A	Aug. 28, 2018	Aug. 27, 2019
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019
	SCHWARZBECK	VOLD9100	D09230	Sep. 20, 2017	Sep. 27, 2

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Report No.: AGC08189190501FE03 Page 13 of 67

7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

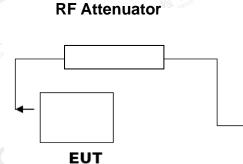
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW \geq RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

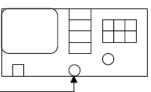
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



Spectrum Analyzer



RF Cable

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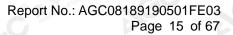


7.3. LIMITS AND MEASUREMENT RESULT

	PEAK OUTPUT POWER MEASU FOR GFSK MOUDUL		
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	-1.505	30	Pass
2.441	-0.749	30	Pass
2.480	0.903	30	Pass

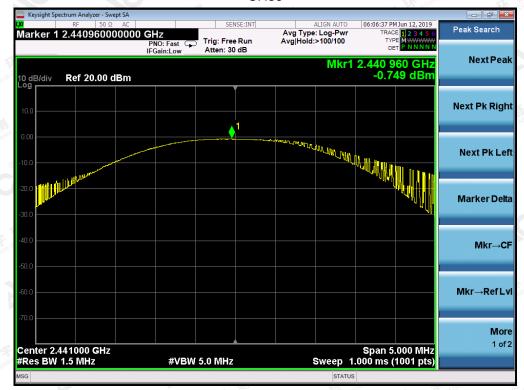


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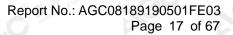
	PEAK OUTPUT POWER MEASU	REMENT RESULT	
	FOR II /4-DQPSK MOD	ULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	-5.117	30	Pass
2.441	-4.345	30	Pass
2.480	-3.933	30	Pass





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PEAK OUTPUT POWER MEASU	JREMENT RESULT	
Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
-4.758	30	Pass
-3.959	30	Pass
-3.569	30	Pass
	FOR 8-DPSK MODUL Peak Power (dBm) -4.758 -3.959	(dBm) (dBm) -4.758 30 -3.959 30

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Report No.: AGC08189190501FE03 Page 19 of 67



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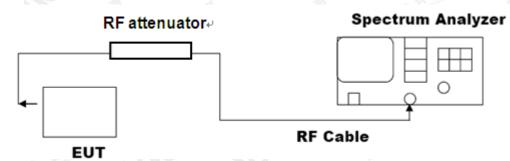
Report No.: AGC08189190501FE03 Page 20 of 67

8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

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



8.3. LIMITS AND MEASUREMENT RESULTS

MEASURE	MENT RESULT FOR	GFSK MOUDULATION	
Applicable Limite		Measurement Result	
Applicable Limits	Test D	ata (MHz)	Criteria
The the constant	Low Channel	1.048	PASS
N/A	Middle Channel	1.039	PASS
	High Channel	1.039	PASS

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

STATUS

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STATUS

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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MEASUREME	ENT RESULT FOR II /4-I	DQPSK MODULATION	N
Annelis state Line (c.		Measurement Result	t
Applicable Limits	Test Data	(MHz)	Criteria
GU	Low Channel	1.256	PASS
N/A	Middle Channel	1.234	PASS
The stand of the stand of the stand	High Channel	1.234	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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MEASU	REMENT RESULT FOR 8-D	PSK MODULATION	
Annlinghla Limita		Measurement Resul	t
Applicable Limits	Test Data	(MHz)	Criteria
GU	Low Channel	1.263	PASS
N/A	Middle Channel	1.257	PASS
Frankovs Color	High Channel	1.257	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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Report No.: AGC08189190501FE03 Page 27 of 67

9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

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

The same as described in section 8.2

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

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

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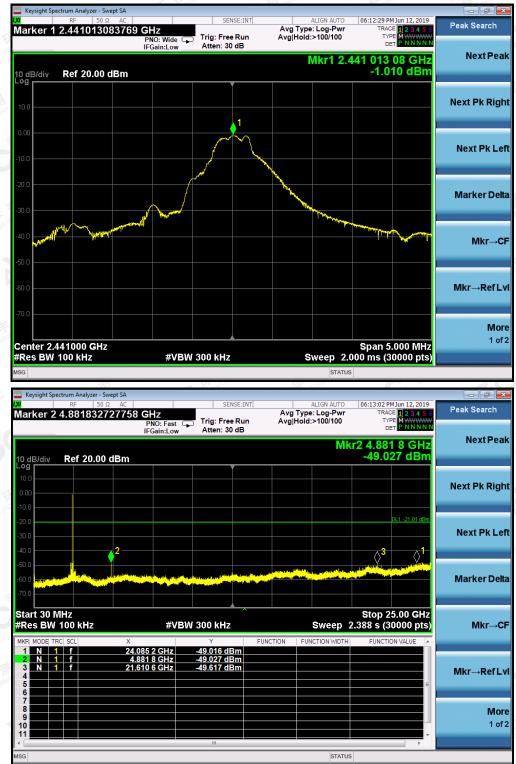


Report No.: AGC08189190501FE03 Page 28 of 67

TEST RESULT FOR ENTIRE FREQUENCY RANGE TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF GFSK MODULATION IN LOW CHANNEL



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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL

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Report No.: AGC08189190501FE03 Page 30 of 67



TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL

Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit. The GFSK modulation is the worst case and only those data recorded in the report.

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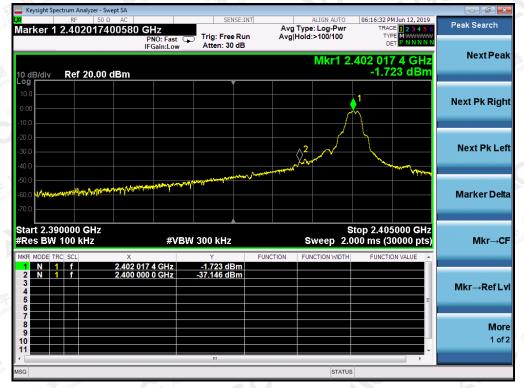


Report No.: AGC08189190501FE03 Page 31 of 67

TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

Hopping off



Hopping on



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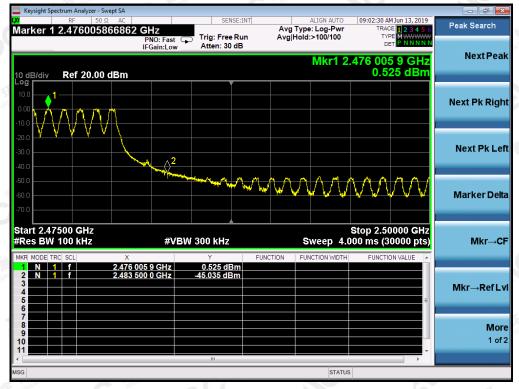
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GFSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on



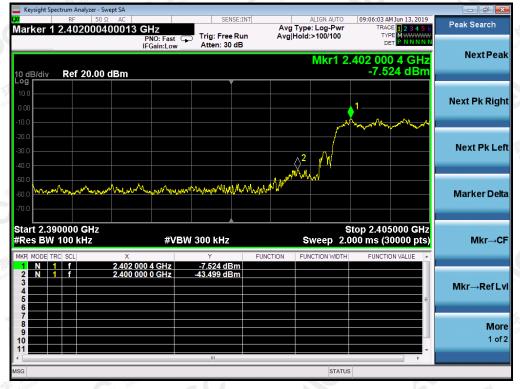
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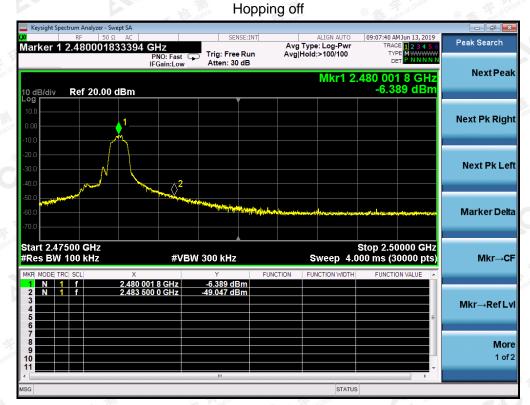
π /4-DQPSK MODULATION IN LOW CHANNEL

Hopping on



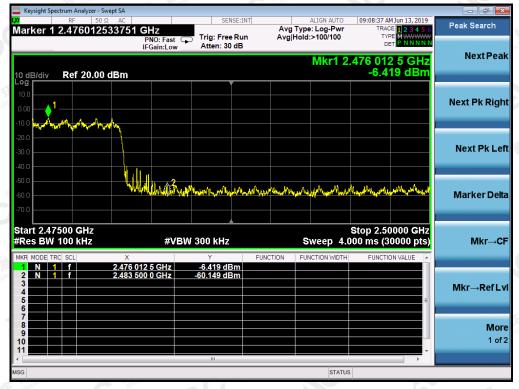
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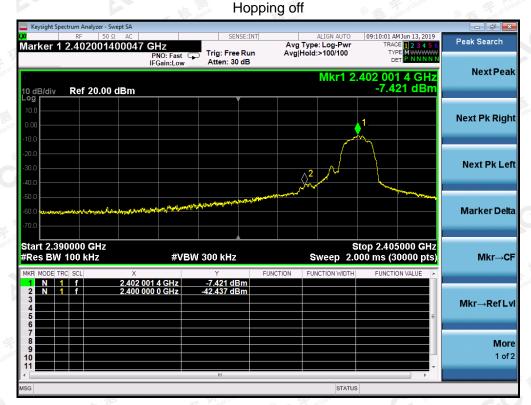
π /4-DQPSK MODULATION IN HIGH CHANNEL

Hopping on



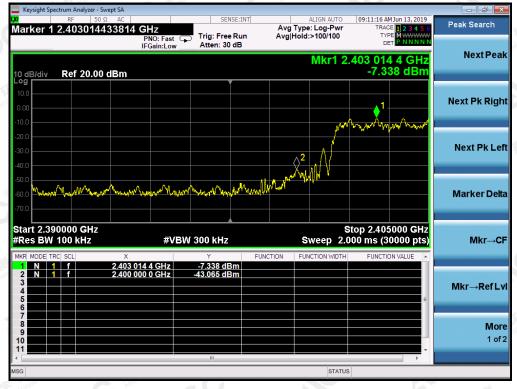
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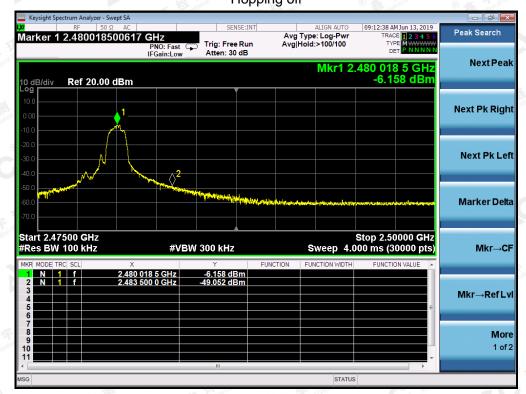
8-DPSK MODULATION IN LOW CHANNEL

Hopping on



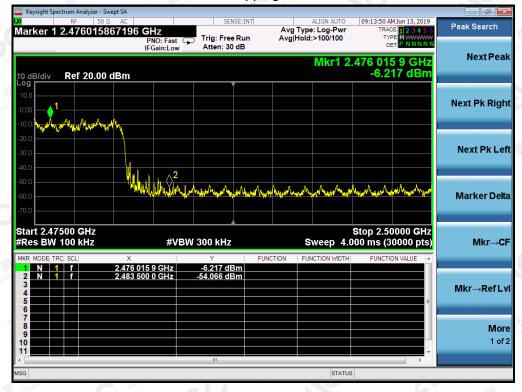
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8-DPSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on



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Report No.: AGC08189190501FE03 Page 37 of 67

10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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Report No.: AGC08189190501FE03 Page 38 of 67

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

	Spectrum Parameter	Setting
Complance	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
e 5	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
3 0 "	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
THE THE	Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz 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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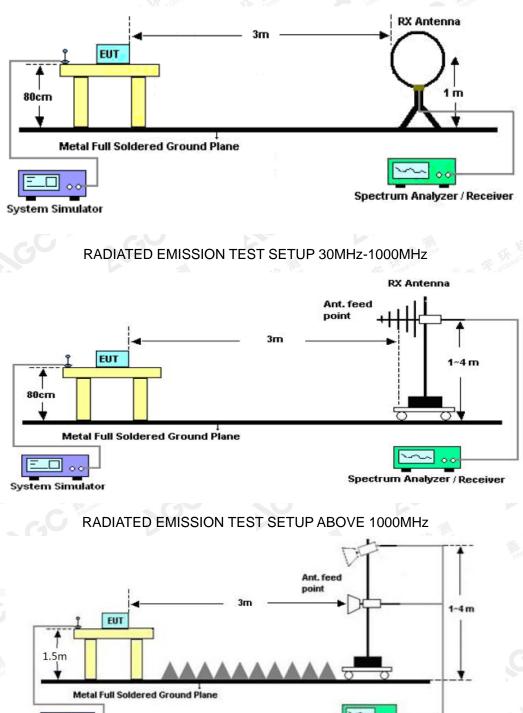


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Report No.: AGC08189190501FE03 Page 39 of 67

10.2. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



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ctrum Analyzer

10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

10.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

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

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sur	е		960	hPa	G	110	Т	est Volta	age	1	Normal Volt	tage
Mo	de		Mod	de 4			A	ntenna		H	Horizontal	
66.	9 di	BuV/m										
											Limit: Margin:	
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31 No.	0.000	Freq. MHz	224.00 Reading dBuV	321.00 Factor dB/m	418.00 Measurement dBuV/m	515.00 Limit	612 Over dB	.00 70 Detector	9.00 Antenna Height	806.00 Table Degree	1000 > T	D.00 MI
31 No. 1	0.000	Freq. MHz 44.5500	224.00 Reading dBuV 0.81	321.00 Factor dB/m 19.93	418.00 Measurement dBuV/m 20.74	515.00 Limit 40.00	612 Over dB -19.26	00 70 Detector peak	9.00 Antenna Height	806.00 Table Degree	1000 > T	D.00 MI
30 No. 1 2	0.000	Freq. MHz 44.5500 191.6667	224.00 Reading dBuV 0.81 6.37	321.00 Factor dB/m 19.93 16.51	418.00 418.00 Measurement dBuV/m 20.74 22.88	515.00 Limit 4BuV/m 40.00 43.50	612 Over dB -19.26 -20.62	00 70 Detector peak peak	9.00 Antenna Height	806.00 Table Degree	1000 > T	D.00 MI
31 No. 1 2 3	0.000	Freq. MHz 44.5500 191.6667 377.5833	224.00 Reading dBuV 0.81 6.37 0.27	321.00 Factor dB/m 19.93 16.51 22.19	418.00 418.00 Measurement dBuV/m 20.74 22.88 22.46	515.00 Limit dBuV/m 40.00 43.50 46.00	612 Over dB -19.26 -20.62 -23.54	00 70 Detector peak peak peak	9.00 Antenna Height	806.00 Table Degree	1000 > T	D.00 MI

RADIATED EMISSION BELOW 1GHZ

RESULT: PASS

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Report No.: AGC08189190501FE03 Page 42 of 67

			Blue	etooth Ea	arbud	The Kanne	M	Model Name			BTBU	U	
era	ature	e	25°C	25°C 960hPa			Relative Humidity			ity 55.4%			G
sur	е		960				Te	Test Voltage		١	Norma	al Vol	ltage
Mo	de		Mod	de 4	下版	100 marce	Α	Antenna		١	/ertica	alo 🦔	Fation of
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-13		127.00	224.00	321.00	418.00	515.00	612.		9.00	806.00 Table			0.00
-13 3(127.00 Freq.	224.00 Reading	321.00 Factor	418.00 Measurement	515.00 Limit dBuV/m	612. Over	00 70	9.00 Antenna Height	806.00 Table Degree		100	0.00
-13 30 No.		127.00 Freq. MHz	224.00 Reading dBuV	321.00 Factor dB/m	418.00 Measurement dBuV/m	515.00 Limit dBuV/m 40.00 -	612. Over dB	00 70 Detector	9.00 Antenna Height	806.00 Table Degree		100	0.00
-13 3(No.		127.00 Freq. MHz 41.3167	224.00 Reading dBuV 0.55	321.00 Factor dB/m 20.04	418.00 Measurement dBuV/m 20.59	515.00 Limit dBuV/m 40.00 - 43.50 -	612. Over dB -19.41	00 70 Detector peak	9.00 Antenna Height	806.00 Table Degree		100	0.00
-13 30 No. 1 2		127.00 Freq. MHz 41.3167 139.9333	224.00 Reading dBuV 0.55 -0.93	321.00 Factor dB/m 20.04 19.23	418.00 Measurement dBuV/m 20.59 18.30	515.00 Limit dBuV/m 40.00 - 43.50 - 46.00 -	612 Over dB -19.41 -25.20	00 70 Detector peak peak	9.00 Antenna Height	806.00 Table Degree		100	0.00
-13 31 No. 1 2 3		127.00 Freq. МHz 41.3167 139.9333 278.9667	224.00 Reading dBuV 0.55 -0.93 0.79	321.00 Factor dB/m 20.04 19.23 19.86	418.00 Measurement dBuV/m 20.59 18.30 20.65	515.00 Limit dBuV/m 40.00 - 43.50 - 46.00 -	612. Over dB -19.41 -25.20 -25.35	00 70 Detector peak peak peak	9.00 Antenna Height	806.00 Table Degree		100	0.00

RESULT: PASS

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

2. All test modes had been pre-tested. The mode 4 is the worst case and recorded in the report.

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EUT	Bluetooth Earbud	Model Name	BTBUD
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

RADIATED EMISSION ABOVE 1GHZ

Meter Reading	Factor	Emission Level	Limits	Margin	
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
47.44	0.08	47.52	74.00	-26.48	peak
44.65	0.08	44.73	54.00	-9.27	AVG
36.48	2.21	38.69	74.00	-35.31	peak
32.31	2.21	34.52	54.00	-19.48	AVG
- C	C AMOST			- <u>10</u>	
			-Ch	15 mplance	The Compliant
	(dBµV) 47.44 44.65 36.48	(dBµV) (dB) 47.44 0.08 44.65 0.08 36.48 2.21	(dBµV) (dB) (dBµV/m) 47.44 0.08 47.52 44.65 0.08 44.73 36.48 2.21 38.69	(dBµV) (dB) (dBµV/m) (dBµV/m) 47.44 0.08 47.52 74.00 44.65 0.08 44.73 54.00 36.48 2.21 38.69 74.00	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 47.44 0.08 47.52 74.00 -26.48 44.65 0.08 44.73 54.00 -9.27 36.48 2.21 38.69 74.00 -35.31

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

EUT	Bluetooth Earbud	Model Name	BTBUD
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.022	49.26	0.08	49.34	🧆 74.00	-24.66	peak
4804.022	43.85	0.08	43.93	54.00	-10.07	AVG
7206.033	38.21	2.21	40.42	74.00	-33.58	peak
7206.033	35.16	2.21	37.37	54.00	-16.63	AVG
Pur C	astantin C	testen		0		
emark:				the stance	The Telephone	® ∰.

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

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Report No.: AGC08189190501FE03 Page 44 of 67

EUT	Bluetooth Earbud	Model Name	BTBUD
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Meter Reading	Factor	Emission Level	Limits	Margin	
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
47.12	0.14	47.26	74.00	-26.74	peak
42.76	0.14	42.90	54.00	-11.10	AVG
41.59	2.36	43.95	74.00	-30.05	peak
38.82	2.36	41.18	54.00	-12.82	AVG
molente	Manco Th	Complia	station	Attestan	0
Global Clobal	C A stion of Giv				
	(dBµV) 47.12 42.76 41.59	(dBµV) (dB) 47.12 0.14 42.76 0.14 41.59 2.36	(dBµV) (dB) (dBµV/m) 47.12 0.14 47.26 42.76 0.14 42.90 41.59 2.36 43.95	(dBµV) (dB) (dBµV/m) (dBµV/m) 47.12 0.14 47.26 74.00 42.76 0.14 42.90 54.00 41.59 2.36 43.95 74.00	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµ 47.12 0.14 47.26 74.00 -26.74 42.76 0.14 42.90 54.00 -11.10 41.59 2.36 43.95 74.00 -30.05

[Factor = Antenna Factor + Cable Loss – Pre-ampliner.

EUT	Bluetooth Earbud	Model Name	BTBUD
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.022	47.25	0.14	47.39	74.00	-26.61	peak
4882.022	45.37	0.14	45.51	54.00	-8.49	AVG
7323.033	40.73	2.36	43.09	74.00	-30.91	peak
7323.033	37.81	2.36	40.17	54.00	-13.83	AVG
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Factor = Antenna Factor + Cable Loss - Pre-amplifier.

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Report No.: AGC08189190501FE03 Page 45 of 67

EUT	Bluetooth Earbud	Model Name	BTBUD
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Trees
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4960.022	46.51	0.22	46.73	74.00	-27.27	peak
4960.022	42.63	0.22	42.85	54.00	-11.15	AVG
7440.033	40.32	2.64	42.96	74.00	-31.04	peak
7440.033	36.79	🧆 2.64	39.43	54.00	-14.57	AVG
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EUT	Bluetooth Earbud	Model Name	BTBUD
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4960.022	44.62	0.22	44.84	54.00	-9.16	AVG
7440.033	38.26	2.64	40.90	74.00	-33.10	peak
7440.033	37.15	2.64	39.79	54.00	-14.21	AVG
ollance @	Gaber C	testation of C	-C M	G		
emark:						lin

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

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

All test modes had been tested. The GFSK modulation is the worst case and recorded in the report.

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