

Report No.: File reference No.:

TW2009268E 2020-09-23

Applicant:Liangying Industrial CO., LTDProduct:Bluetooth Wired HeadphonesModel No.:H100

Trademark: AT&T

Test Standards: FCC Part 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated:

September 23, 2020

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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Test Report Conclusion Content

1.0	General Details	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	4
1.5	Test Duration	4
1.6	Test Uncertainty	4
1.7	Test By	5
2.0	List of Measurement Equipment	6
3.0	Technical Details	7
3.1	Summary of Test Results	7
3.2	Test Standards	7
4.0	EUT Modification	7
5.0	Power Line Conducted Emission Test	8
5.1	Schematics of the Test	8
5.2	Test Method and Test Procedure	8
5.3	Configuration of the EUT	8
5.4	EUT Operating Condition	9
5.5	Conducted Emission Limit	9
5.6	Test Result	9
6.0	Radiated Emission test	12
6.1	Test Method and Test Procedure	12
6.2	Configuration of the EUT	12
6.3	EUT Operation Condition	12
6.4	Radiated Emission Limit	13
7.0	20dB Bandwidth	25
8.0	Maximum Output Power	37
9.0	Carrier Frequency Separation	40
10.0	Number of Hopping Channel	44
11.0	Time of Occupancy (Dwell Time)	48
12.0	Out of Band Measurement	61
13.0	Antenna Requirement	78
14.0	FCC ID Label	79
15.0	Photo of Test Setup and EUT View	80

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1.0 **General Details**

Test Lab Details 1.1

Name :	SHENZHEN TIMEWAY TESTING LABORATORIES.
Address:	Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le
	Village, Nanshan District, Shenzhen, China
Telephone:	(755) 83448688
Fax:	(755) 83442996

1.2 Applicant Details

Applicant:	Liangying Industrial CO., LTD
Address:	Gurao Industrial District, Chaoyang Shantou, China
Telephone:	
Fax:	

Description of EUT 1.3

-	
Product:	Bluetooth Wired Headphones
Manufacturer:	Liangying Industrial CO., LTD
Address:	Gurao Industrial District, Chaoyang Shantou, China
Brand Name:	AT&T
Model Number:	H100
Additional Model Numb	ber: N/A
Type of Modulation	GFSK, <i>川</i> /4D-QPSK, 8DPSK for Bluetooth
Frequency range	2402-2480MHz for Bluetooth
Channel Spacing	1MHz for Bluetooth
Frequency Selection	By software
Channel Number	79 channels for Bluetooth
Antenna:	PCB Antenna. The gain of the antennas is -0.58dBi (Get from the antenna
	specification provided by the applicant)
Input Voltage:	DC5.0V
Battery:	DC3.7V, 240mAh Li-ion battery
Hardware Version:	V1.0
Software Version:	V1.0

1.4 Submitted Sample: 1 Samples

1.5 Test Duration

2020-09-21 to 2020-09-23

1.6 Test Uncertainty

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Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22
Loop Antenna	EMCO	6507	00078608	2020-06-23	2021-06-22
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic			N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22
Spectrum	RS	FSP	1164.4391.38	2020-01-18	2021-01-17
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2020-06-23	2021-06-22
RF Cable	Zhengdi	7m		2020-06-23	2021-06-22
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22
LISN	SCHAFFNER	NNB42	00012	2020-01-07	2021-01-06

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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adopt any other remedies which may be appropriate.



3.0 **Technical Details**

3.1 Summary of test results

The EUT has been tested according to the following specifications:					
Requirement	CFR 47 Section	Result	Notes		
Antenna Requirement	15.203, 15.247(b)(4)	PASS	Complies		
Maximum Peak Out Power	15.247 (b)(1), (4)	PASS	Complies		
Carrier Frequency Separation	15.247(a)(1)	PASS	Complies		
20dB Channel Bandwidth	15.247 (a)(1)	PASS	Complies		
Number of Hopping Channels	15.247(a)(iii), 15.247(b)(1)	PASS	Complies		
Time of Occupancy (Dwell Time)	15.247(a)(iii)	PASS	Complies		
Spurious Emission, Band Edge, and Restricted bands	15.247(d),15.205(a), 15.209 (a),15.109	PASS	Complies		
Conducted Emissions	15.207(a), 15.107	PASS	Complies		
RF Exposure	15.247(i), 1.1307(b)(1)	PASS	Complies		

3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 **EUT Modification**

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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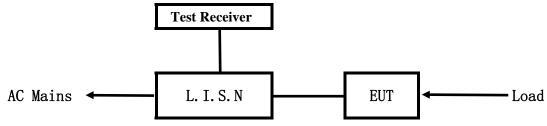
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adopt any other remedies which may be appropriate.



5. Power Line Conducted Emission Test

5.1 Schematics of the test

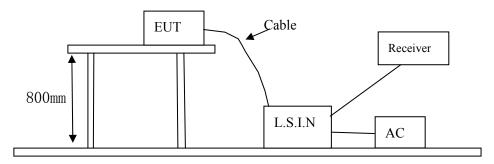


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10–2013. Test Voltage: 120V~ 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

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A. EUI					
Device	Manufacturer	Model	FCC ID		
Bluetooth Wired	Liangying Industrial CO., LTD	H100	2AGKL-H100		
Headphones	Liangying industrial CO., LID	11100	2AUKL-11100		

B. Internal Device

TUT

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating	
Power Supply KEYU		KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;	
			Output: DC5V, 2A	

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB µ V)		
(MHz)	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*	
$0.50~\sim~5.00$	56.0	46.0	
$5.00~\sim~30.00$	60.0	50.0	

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

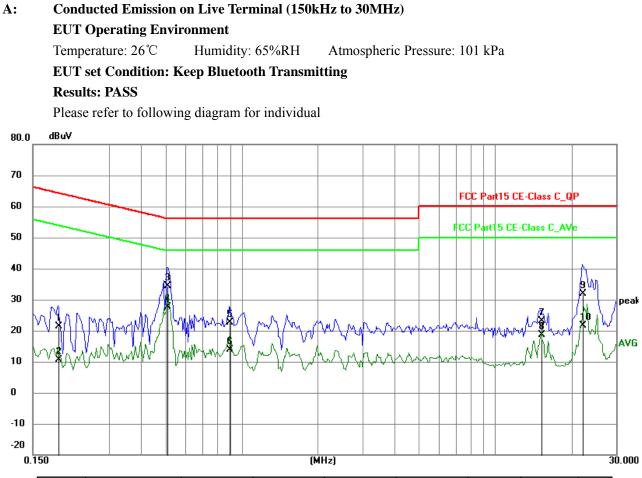
The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz. AC 120V 60Hz

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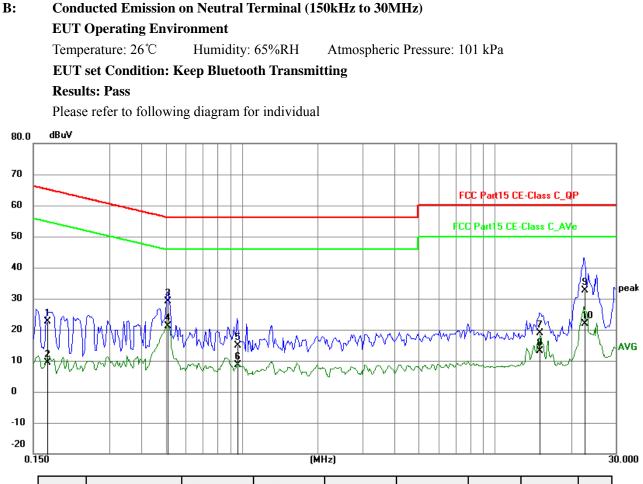


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1890	11.50	9.76	21.26	64.08	-42.82	QP	Ρ
2	0.1890	0.91	9.76	10.67	54.08	-43.41	AVG	Р
3	0.5088	24.61	9.77	34.38	56.00	-21.62	QP	Ρ
4	0.5088	17.74	9.77	27.51	46.00	-18.49	AVG	Ρ
5	0.8949	12.85	9.79	22.64	56.00	-33.36	QP	Ρ
6	0.8949	4.17	9.79	13.96	46.00	-32.04	AVG	Ρ
7	15.2460	12.79	10.39	23.18	60.00	-36.82	QP	Ρ
8	15.2460	8.28	10.39	18.67	50.00	-31.33	AVG	Ρ
9	22.0710	21.10	10.81	31.91	60.00	-28.09	QP	Ρ
10	22.0710	10.77	10.81	21.58	50.00	-28.42	AVG	Ρ

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1695	12.84	9.77	22. <mark>6</mark> 1	64.98	-42.37	QP	Ρ
2	0.1695	-0.50	9.77	9.27	54.98	-45.71	AVG	Р
3	0.5088	19.37	9.77	29.14	56.00	-26.86	QP	Ρ
4	0.5088	11.28	9.77	21.05	46.00	-24.95	AVG	Ρ
5	0.9612	5.21	9.79	15.00	56.00	-41.00	QP	Ρ
6	0.9612	-1.26	9.79	8.53	46.00	-37.47	AVG	Ρ
7	15.0627	8.55	10.38	18.93	60.00	-41.07	QP	Ρ
8	15.0627	2.73	10.38	13.11	50.00	-36.89	AVG	Ρ
9	22.655 <mark>1</mark>	21.90	10.84	32.74	60.00	-27.26	QP	Ρ
10	22.6551	11.13	10.84	21.97	50.00	-28.03	AVG	Ρ

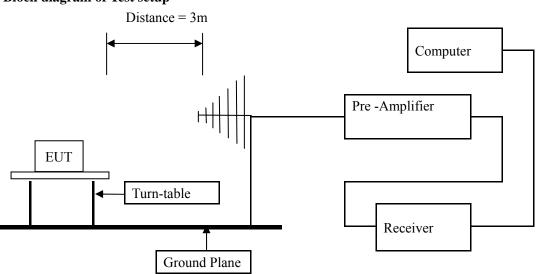
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6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.



Block diagram of Test setup

- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage $(dBuV) = 20 \log RF$ Voltage (uV)

2. In the Above Table, the higher limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. GFSK was found as the worst case by pre test and only worse case is reported

5. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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Test result General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/Vertical (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Pass

Results:

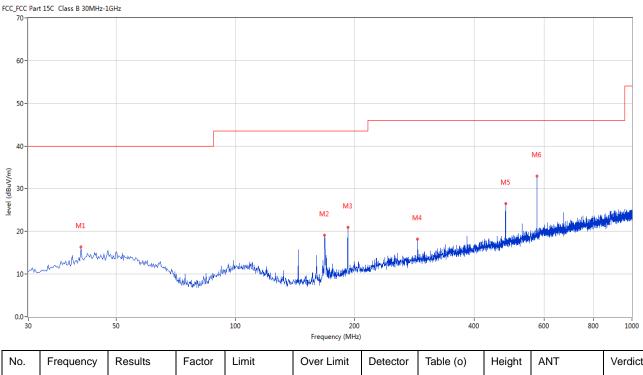
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Test Figure:





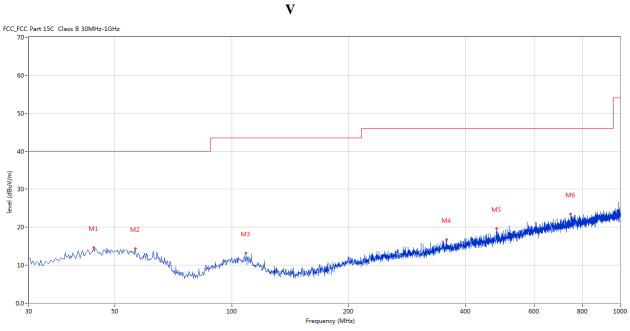
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	40.667	16.35	-12.19	40.0	-23.65	Peak	0.00	200	Horizontal	Pass
2	167.706	19.13	-16.13	43.5	-24.37	Peak	302.00	200	Horizontal	Pass
3	191.950	20.92	-14.07	43.5	-22.58	Peak	178.00	200	Horizontal	Pass
4	287.956	18.21	-11.27	46.0	-27.79	Peak	51.00	100	Horizontal	Pass
5	479.968	26.47	-7.40	46.0	-19.53	Peak	310.00	200	Horizontal	Pass
6	575.974	32.98	-5.83	46.0	-13.02	Peak	0.00	200	Horizontal	Pass

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Test Figure:



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	44.061	14.65	-11.47	40.0	-25.35	Peak	120.00	100	Vertical	Pass
2	56.426	14.39	-12.15	40.0	-25.61	Peak	147.00	100	Vertical	Pass
3	108.793	13.14	-13.50	43.5	-30.36	Peak	261.00	100	Vertical	Pass
4	356.808	16.75	-9.50	46.0	-29.25	Peak	239.00	100	Vertical	Pass
5	479.968	19.69	-7.40	46.0	-26.31	Peak	190.00	100	Vertical	Pass
6	744.954	23.46	-3.46	46.0	-22.54	Peak	93.00	100	Vertical	Pass

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operation model. Hansintenig under Low Channel (240211112)										
Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dB µ V/m)							
4804		Н	74(Peak)/ 54(AV)							
4804		V	74(Peak)/ 54(AV)							
7206		H/V	74(Peak)/ 54(AV)							
9608		H/V	74(Peak)/ 54(AV)							
12010		H/V	74(Peak)/ 54(AV)							
14412		H/V	74(Peak)/ 54(AV)							
16814		H/V	74(Peak)/ 54(AV)							
19216		H/V	74(Peak)/ 54(AV)							
21618		H/V	74(Peak)/ 54(AV)							
24020		H/V	74(Peak)/ 54(AV)							

Operation Mode: Transmitting under Low Channel (2402MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

I											
Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)								
4882		Н	74(Peak)/ 54(AV)								
4882		V	74(Peak)/ 54(AV)								
7323		H/V	74(Peak)/ 54(AV)								
9764		H/V	74(Peak)/ 54(AV)								
12205		H/V	74(Peak)/ 54(AV)								
14646		H/V	74(Peak)/ 54(AV)								
17087		H/V	74(Peak)/ 54(AV)								
19528		H/V	74(Peak)/ 54(AV)								
21969		H/V	74(Peak)/ 54(AV)								
24410		H/V	74(Peak)/ 54(AV)								

Operation Mode: Transmitting g under Middle Channel (2441MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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Operation would:	Transmitting under High C	Hannel (2400101112)	
Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4960		Н	74(Peak)/ 54(AV)
4960		V	74(Peak)/ 54(AV)
7440		H/V	74(Peak)/ 54(AV)
9920		H/V	74(Peak)/ 54(AV)
12400		H/V	74(Peak)/ 54(AV)
14880		H/V	74(Peak)/ 54(AV)
17360		H/V	74(Peak)/ 54(AV)
19840		H/V	74(Peak)/ 54(AV)
22320		H/V	74(Peak)/ 54(AV)
24800		H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting under High Channel (2480MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

The report refers only to the sample tested and does not apply to the bulk.

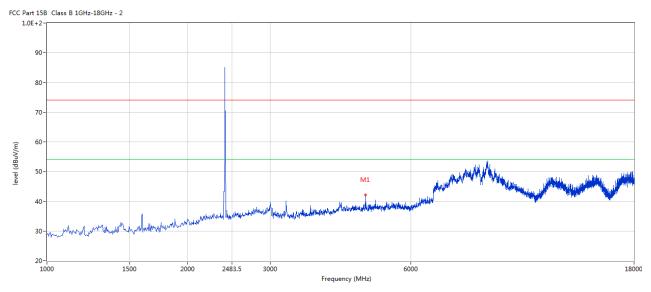
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adopt any other remedies which may be appropriate.



Please refer to the following test plots for details:

Low Channel: Vertical



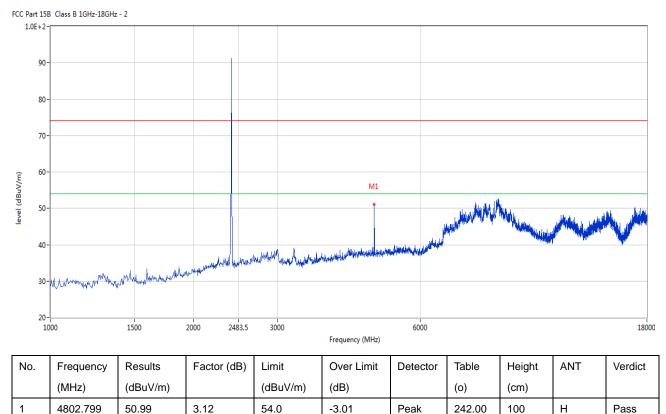
No	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	4802.799	42.22	3.12	54.0	-11.78	Peak	168.00	100	V	Pass

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Low Channel : Horizontal



Peak

100

Pass

The report refers only to the sample tested and does not apply to the bulk.

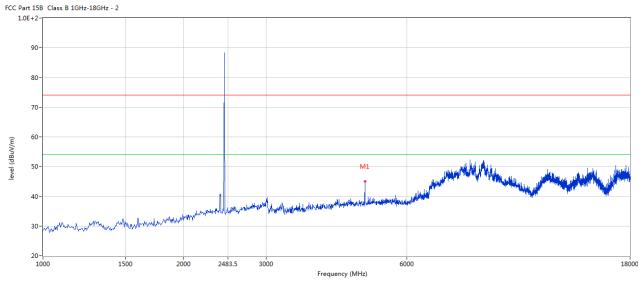
50.99

3.12

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Middle Channel : Horizontal



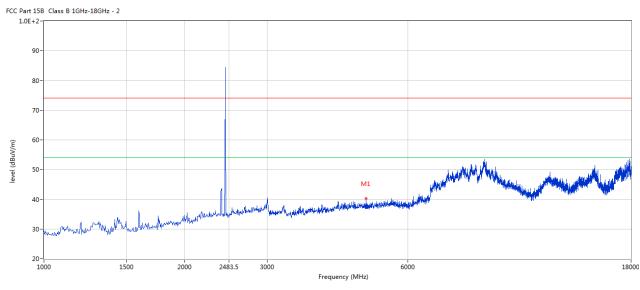
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	4883.529	45.01	3.20	54.0	-8.99	Peak	241.00	100	Н	Pass

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Middle Channel : Vertical



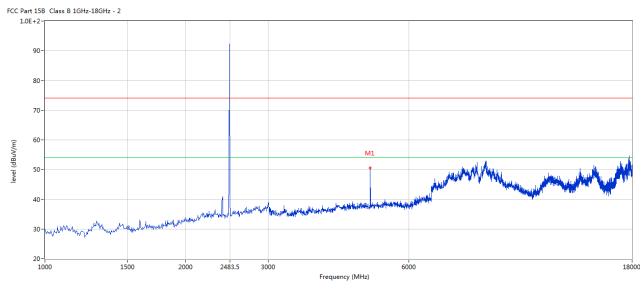
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	4883.529	40.32	3.20	54.0	-13.68	Peak	0.00	100	V	Pass

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High Channel : Horizontal

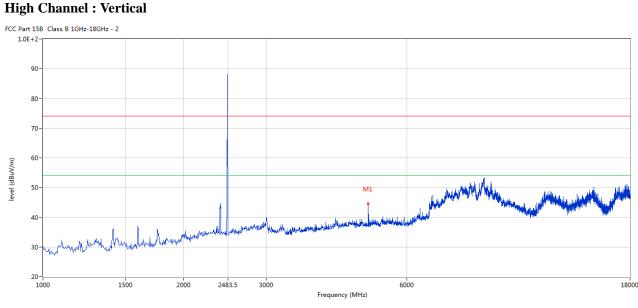


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	4960.010	50.61	3.36	54.0	-3.39	Peak	197.00	100	Н	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	4960.010	44.58	3.36	54.0	-9.42	Peak	356.00	100	V	Pass

Note: 1. for the radiated emissions above 18G and below 30MHz, it is the floor noise.

2. the measured PK radiated emissions level less than the AV limit, so no necessary to take down the AV result

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7.0 20dB Bandwidth Measurement

7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.2 Limits of 20dB Bandwidth Measurement

N/A

7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span =3MHz, RBW =30 kHz, VBW=100 kHz, Sweep = auto Detector function = peak, Trace = max hold

3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

7.4 Test Result

Type of Modulation: GFSK

EUT	Bluetooth	Wired Headphones	Model	H100
Mode	Keep	Transmitting	Input Voltage	DC3.7V
Temperat	ure 2	4 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail
Low	2402	673		Pass
Middle	2441	679		Pass
High	2480	661		Pass

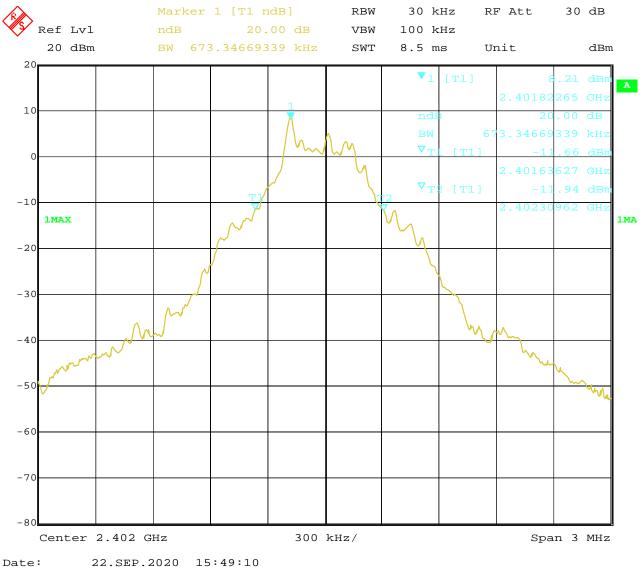
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Test Figure: 1. Condition: Low Channel



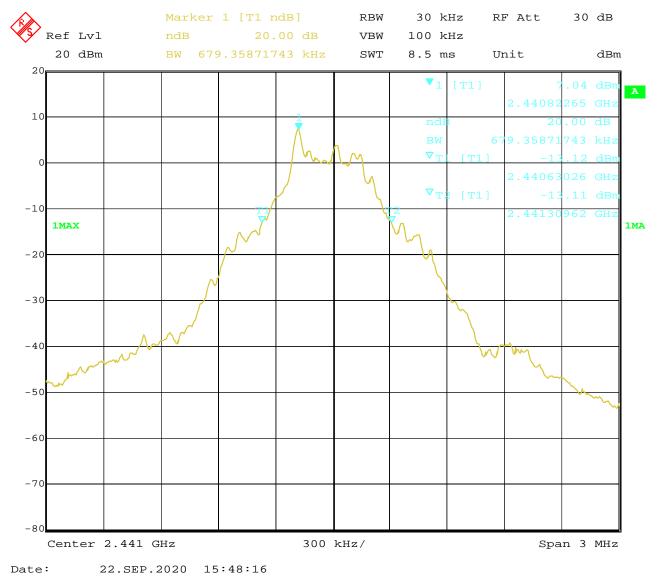


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2. Condition: Middle Channel



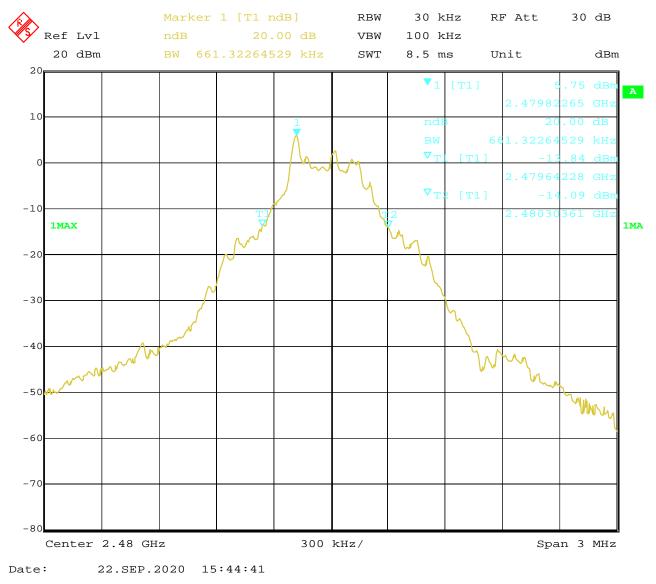
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3. High Channel



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Test Result Type of Modulation: Л/4D-QPSK

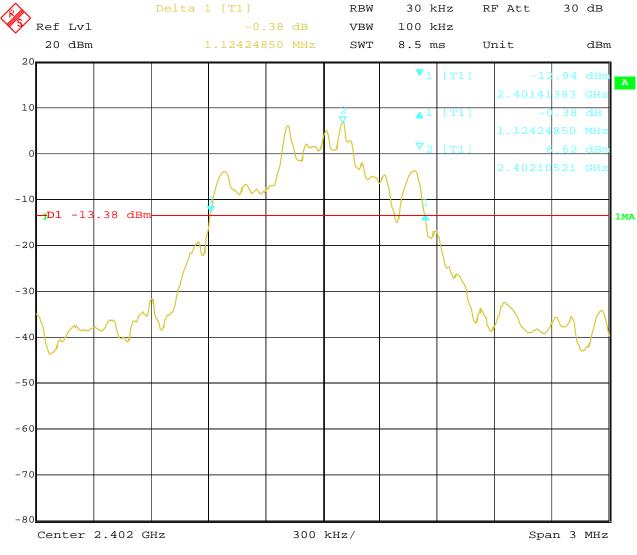
EUT	Bluetooth	Wired Headphones	Model	H100
Mode	Keep	Transmitting	Input Voltage	DC3.7V
Temperature	2	24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1124		Pass
Middle	2441	1124		Pass
High	2480 1118			Pass

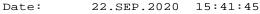
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Test Figure:

1. Condition: Low Channel





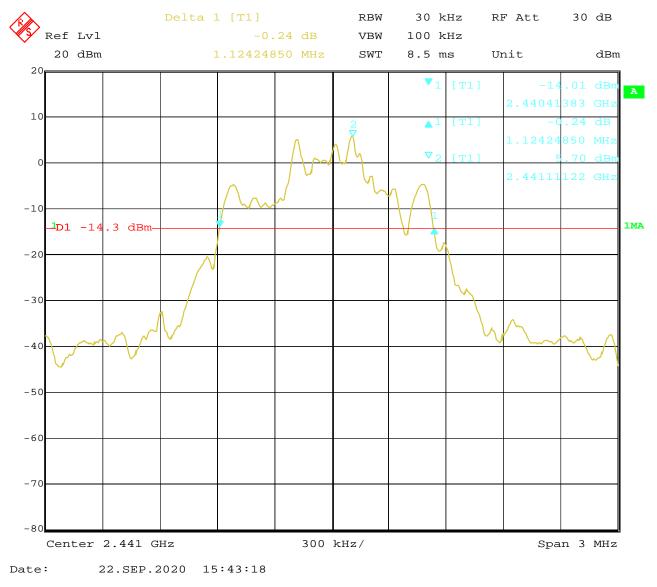
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Page 31 of 86

2. Condition: Middle Channel



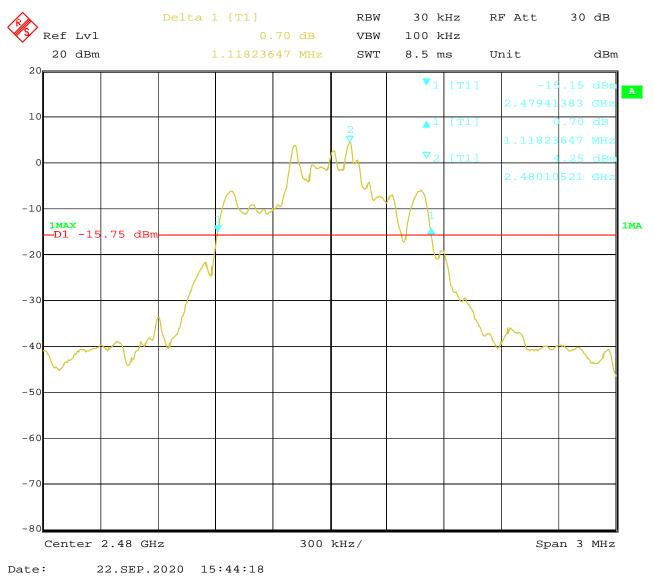
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3. High Channel



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Test Result Type of Modulation: 8DPSK

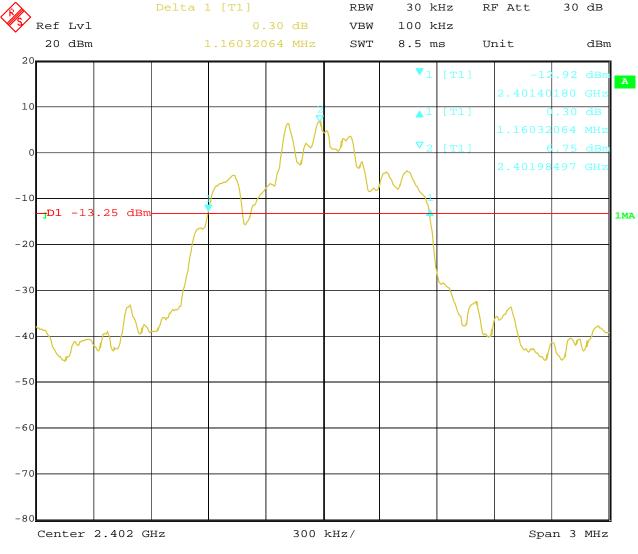
EUT	Bluetooth V	Wired Headphones	Model	H100	
Mode	Keep	Transmitting	Input Voltage	DC3.7V	
Temperature	24	4 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail	
Low	2402	1160		Pass	
Middle	2441	1160		Pass	
High	2480 1160			Pass	

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Page 34 of 86

Test Figure: 1. Condition: Low Channel



Date: 22.

22.SEP.2020 15:50:14

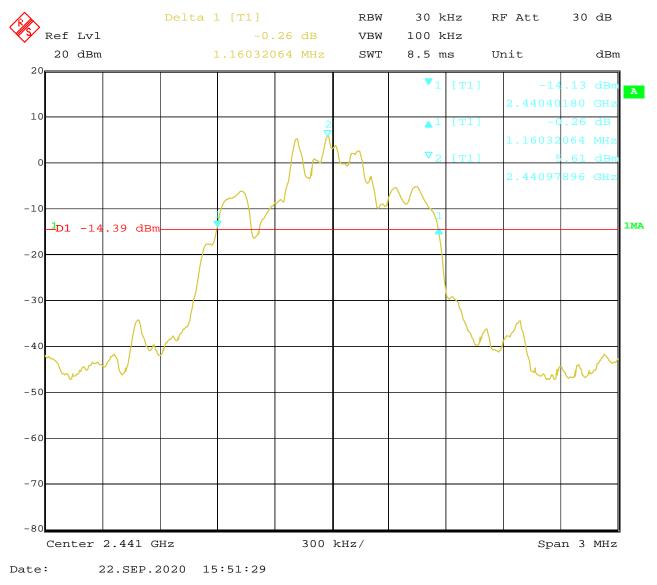
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Page 35 of 86

2. Condition: Middle Channel



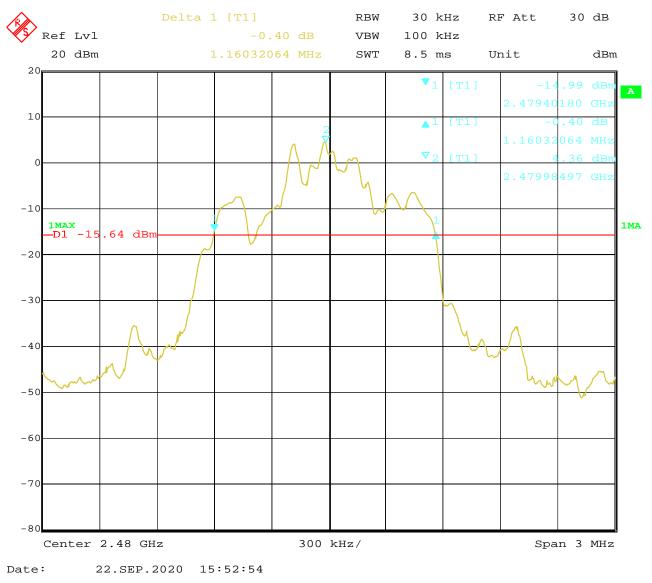
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Page 36 of 86

3. High Channel



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8. Maximum Output Power 8.1 Regulation

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW = RBW=3MHz;

Sweep = 60s; Detector function = PK; Trace = max hold

3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.

4. Repeat above procedures until all frequencies measured were complete.

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8.4Test Results Type of Modulation: GFSK

EUT	Bluetooth Wired Headphones		Model	H100
Mode	Keep Transmitting		Input Voltage	DC3.7V
Temperature		24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm) Peak	Peak Power Limit (dBm)	Pass/ Fail
Low	2402	8.99	30	Pass
Middle	2441	7.89	30	Pass
High	2480	6.66	30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

- 2. The worse case was recorded
- 3. The **Peak** power was measured

Type of Modulation: *Π*/**4D-OPSK**

EUT	Blue	etooth Wired Headphones	Model	H100			
Mode		Keep Transmitting	Input Voltage	DC3.7V			
Temperature		24 deg. C,	Humidity	56% RH			
Channel	Channel Frequency (MHz)	Max. Power Output (dBm) Peak	Peak Power Limit (dBm)	Pass/ Fail			
Low	2402	8.76	30	Pass			
Middle	2441	7.79	30	Pass			
High	2480	6.39	30	Pass			

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

- 2. The worse case was recorded
- 3. The **Peak** power was measured

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adopt any other remedies which may be appropriate.



Type of Modulation: 8DPSK

EUT	Bluetoo	th Wired Headphones	Model	H100
Mode	Ke	ep Transmitting	Input Voltage	DC3.7V
Temperature	2	24 deg. C,		56% RH
Channel	Channel Frequency	Max. Power Output (dBm)	Peak Power Limit Pass/ Fa	Pass/ Fail
	(MHz)	Peak	(dBm)	
Low	2402	8.89	30	Pass
Middle	2441	7.95	30	Pass
High	2480	6.50	30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

- 2. The worse case was recorded
- 3. The Peak power was measured

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9. Carrier Frequency Separation

9.1 Regulation

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

9.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span; Video (or Average) Bandwidth (VBW) $\geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold

3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.

4. Repeat above procedures until all frequencies measured were complete.

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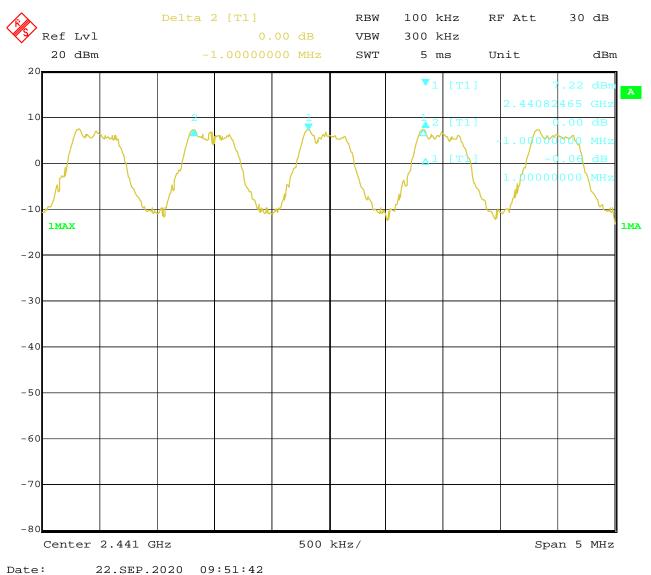


9.4Test Result

Type of Modulation: GFSK

EUT	Bluetooth Wired He	Model		H100		
Mode	Hopping O	Input Voltage		DC3.7V		
Temperature	24 deg. C,		Humidity		56% RH	
Carrier I	Frequency Separation		Limit		Pass/ Fail	
	1.000MHz	\geq 25 kHz or 2/3	of the 20 dB ban	dwidth	Pass	

Test Plots



The report refers only to the sample tested and does not apply to the bulk.

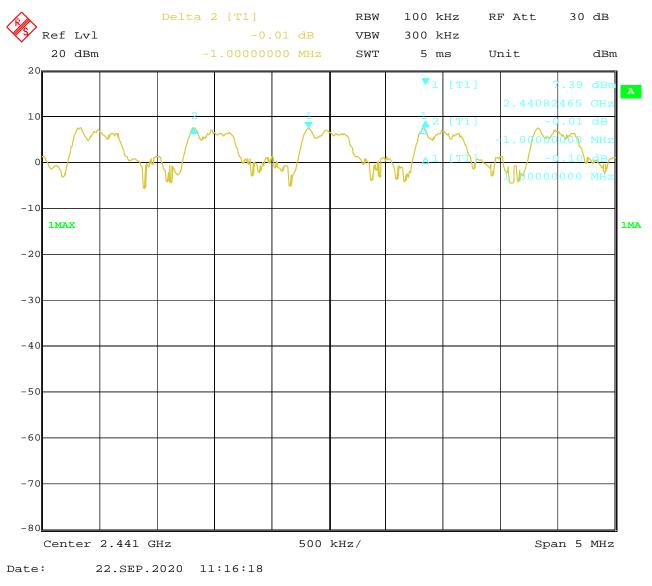
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Type of Modulation: Л/4D-QPSK

EUT	Bluetooth Wired He	Model		H100	
Mode	Hopping O	Input Voltage		DC3.7V	
Temperature	24 deg. C,		Humidity	56% RH	
Carrier Frequency Separation			Limit		Pass/ Fail
	1.000MHz	≥ 25 kHz or 2	2/3 of 20 dB bandy	width	Pass

Test Plots



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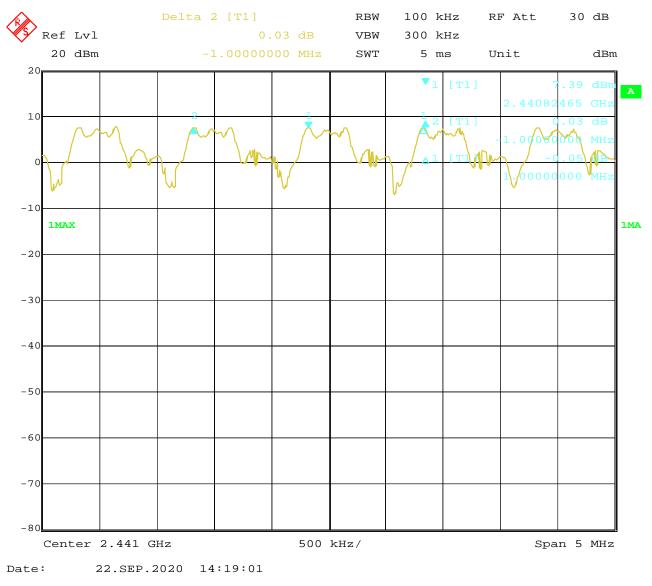
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Type of Modulation: 8DPSK

EUT	Bluetooth Wired He	Model		H100	
Mode	Hopping O	Input Voltage		DC3.7V	
Temperature	24 deg. C,		Humidity	56% RH	
Carrier Frequency Separation			Limit		Pass/ Fail
	1.000MHz	≥ 25 kHz or 2	2/3 of 20 dB bandy	width	Pass

Test Plots



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10. Number of Hopping Channels 10.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

10.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW=100 kHz, VBW=300 kHz; Sweep = auto; Detector function = peak; Trace = max hold

3. Record the number of hopping channels.

The report refers only to the sample tested and does not apply to the bulk.

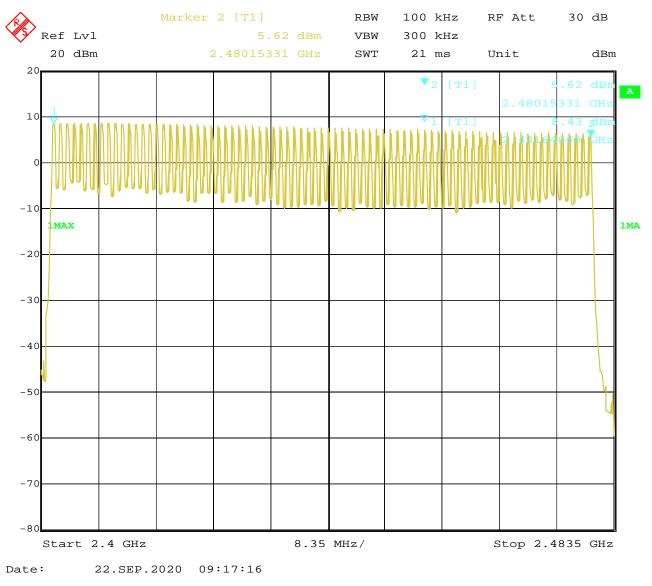
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10.4Test Result Type of Modulation: GFSK

EUT	Bluetooth Wired Headphones		Model	H100	
Mode	Hopping On		Input Voltage	DC3.7V	
Temperature	24 deg. C,		Humidity	56% RH	
Operating Frequency Number of hoppi			ping channels	Limit	Pass/ Fail
2402-2480MHz 79			≥15	Pass	

Test Plot



The report refers only to the sample tested and does not apply to the bulk.

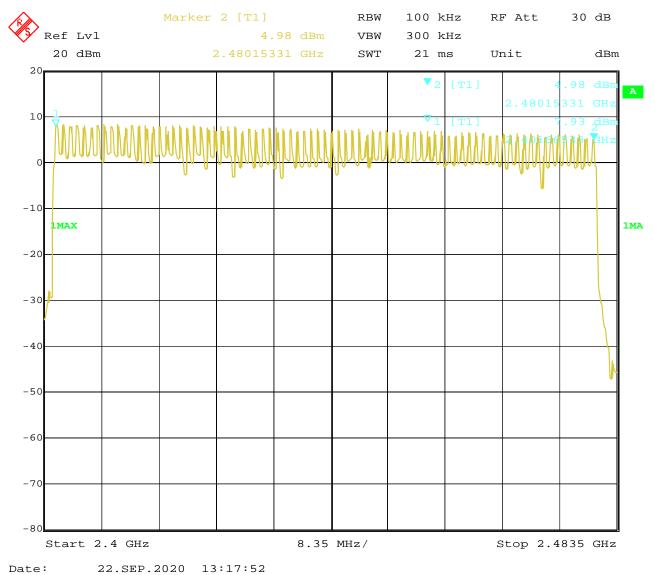
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Type of Modulation: Л/4D-QPSK

EUT	Bluetooth Wired Headphones		Model		H100	
Mode	Hopping On		Input Voltage		DC3.7V	
Temperature	24 deg. C,		Hum	midity		56% RH
Operating Frequency		Number of hoppin channels	ıg	Lir	nit	Pass/ Fail
2402-2480MHz		79		≥ 1	15	Pass

Test Plot



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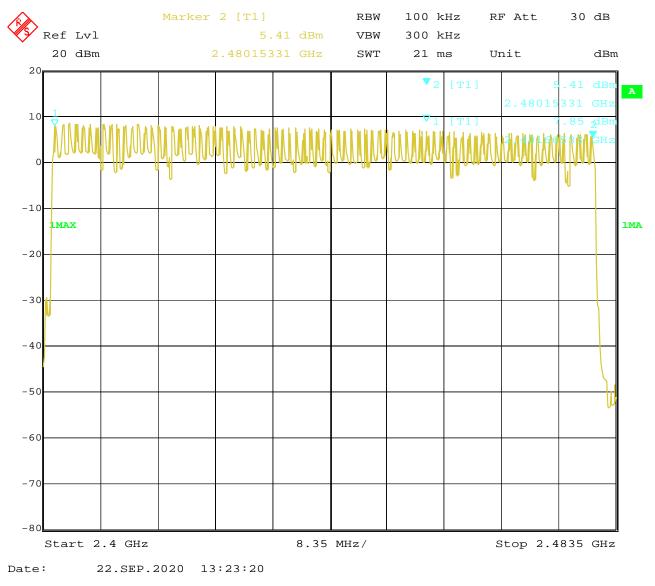
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Type of Modulation: 8DPSK

EUT	Bluetooth Wired Headphones		Model			H100
Mode	Н	opping On	Input V	oltage		DC3.7V
Temperature	2	24 deg. C,	Humidi	ity		56% RH
Operating Fre	quency	Number of hopp channels	oing	Liı	nit	Pass/ Fail
2402-2480MHz		79		2	15	Pass

Test Plot



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11. Time of Occupancy (Dwell Time)

11.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

11.2 Limits of Carrier Frequency Separation

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW

RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold

3. Measure the dwell time using the marker-delta function.

4. Repeat above procedures until all frequencies measured were complete.

5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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11.4 Test Result

Type of Modulation: GFSK

EUT	Bluetooth Wired Headphones		Model		H100				
Mode	Keep Tr	ansmitting	Input Voltage]	DC3.7V				
Temperature	24 d	24 deg. C, Humidity		5	56% RH				
Channel	Reading	Hopin	Hoping Rate		Limit				
	DH5								
Middle	2.946ms	266.66	7 hop/s	0.314s	0.4s				
			DH3						
Middle	1.703ms	400 ł	nop/s	0.272s	0.4s				
	DH1								
Middle	0.441ms	800 ł	nop/s	0.141s	0.4s				

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

The report refers only to the sample tested and does not apply to the bulk.

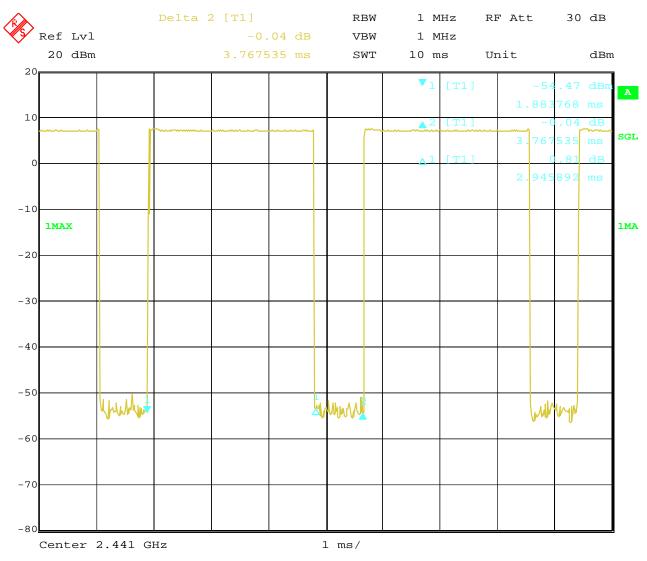
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Page 50 of 86

Test Plots:

DH5



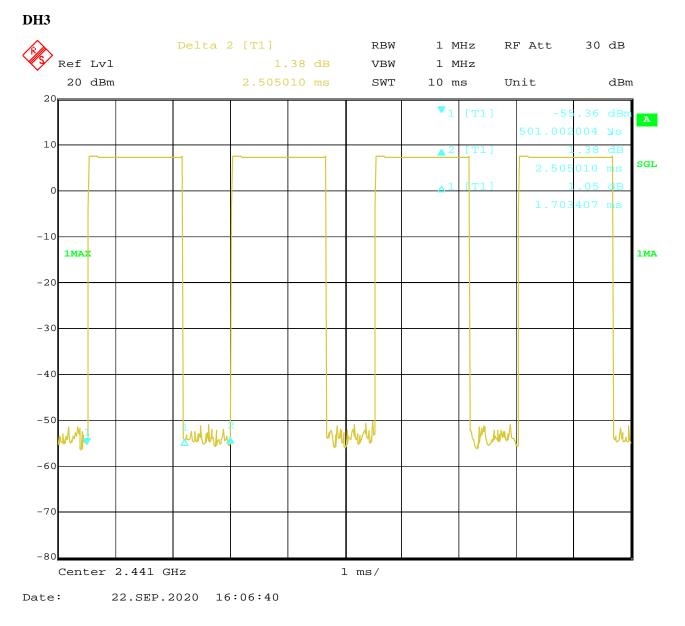
22.SEP.2020 16:07:11 Date:

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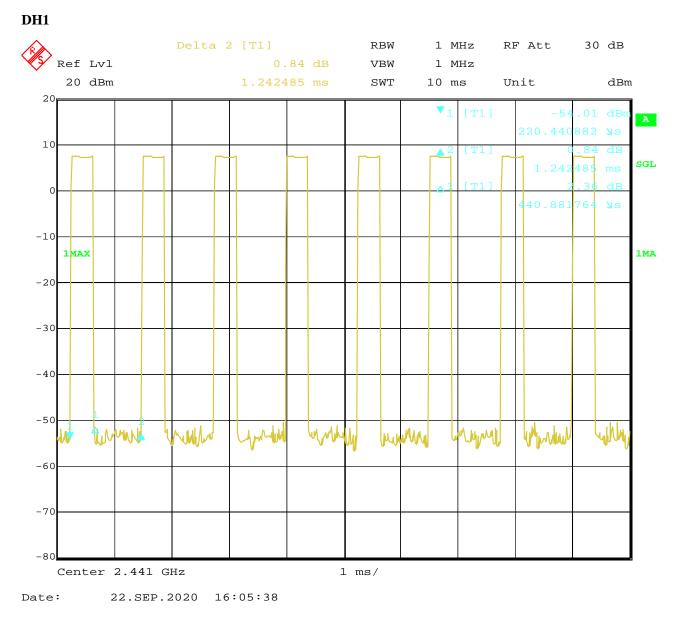
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Test Result

Type of Modulation: Л/4D-QPSK

EUT	Bluetooth Wi	Bluetooth Wired Headphones		H100					
Mode	Keep Tr	ansmitting	Input Voltage	Ι	DC3.7V				
Temperature	e 24 d	deg. C, Humidity		5	6% RH				
Channel	Reading	Hopin	Hoping Rate		Limit				
	2DH5								
Middle	2.946ms	266.66	7 hop/s	0.314s	0.4s				
			2DH3						
Middle	1.703ms	400 ł	nop/s	0.272s	0.4s				
	2DH1								
Middle	0.461ms	800 ł	nop/s	0.148s	0.4s				

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625µs with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

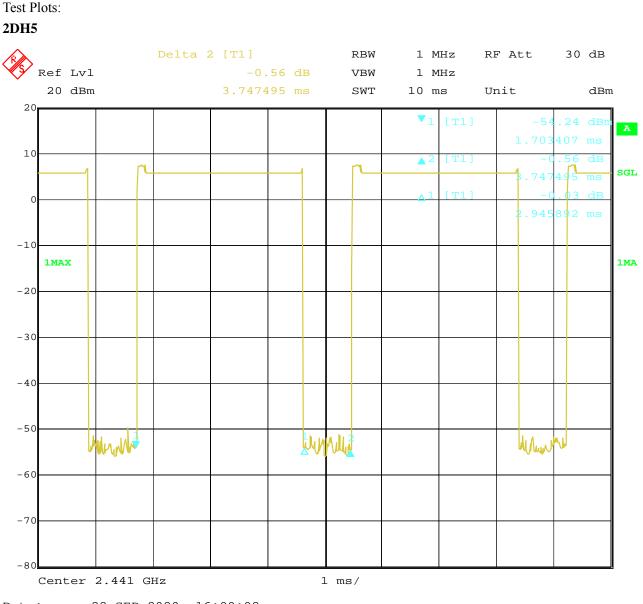
A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

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Page 54 of 86



Date:

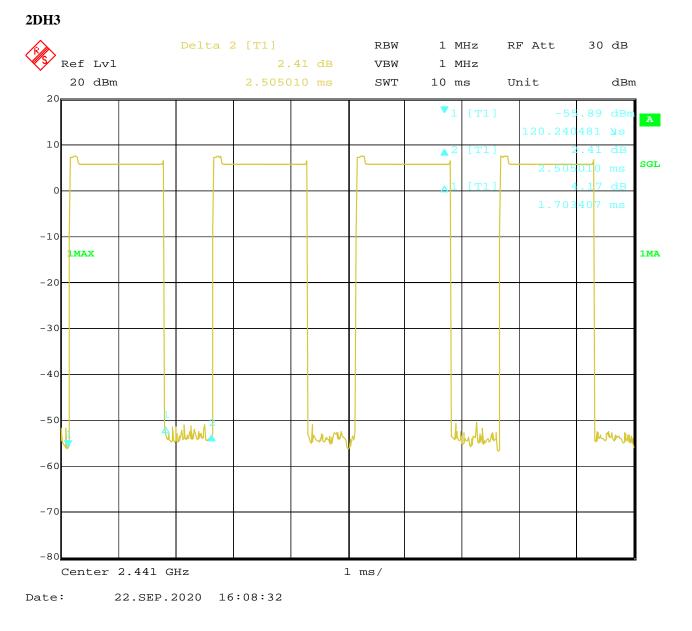
22.SEP.2020 16:09:02

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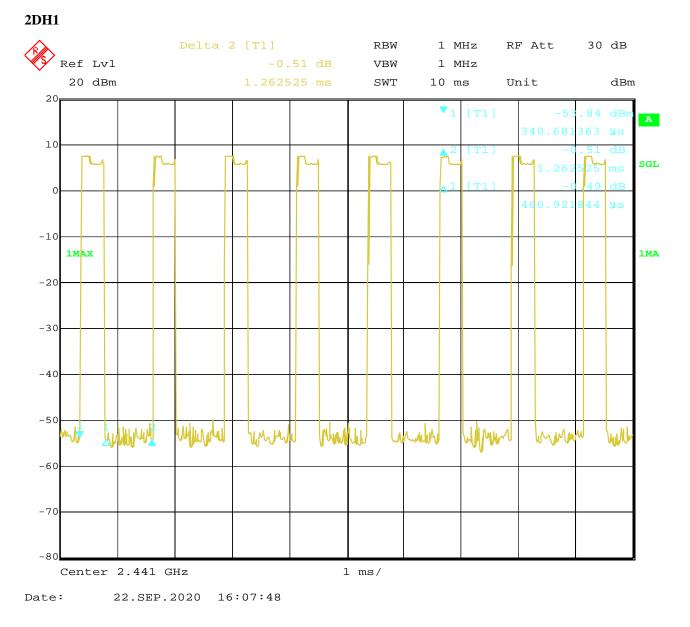


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Type of Modulation: 8DPSK

EUT	Bluetooth Wired Headphones		Model		H100				
Mode	Keep Tr	Keep Transmitting		DC3.7V					
Temperature	24 d	leg. C,	g. C, Humidity		56% RH				
Channel	Reading	Hopin	g Rate	Actual	Limit				
	3DH5								
Middle	2.966ms	266.66	7 hop/s	0.316s	0.4s				
			3DH3						
Middle	1.703ms	400 ł	nop/s	0.272s	0.4s				
	3DH1								
Middle	0.461ms	800 ł	nop/s	0.148s	0.4s				

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

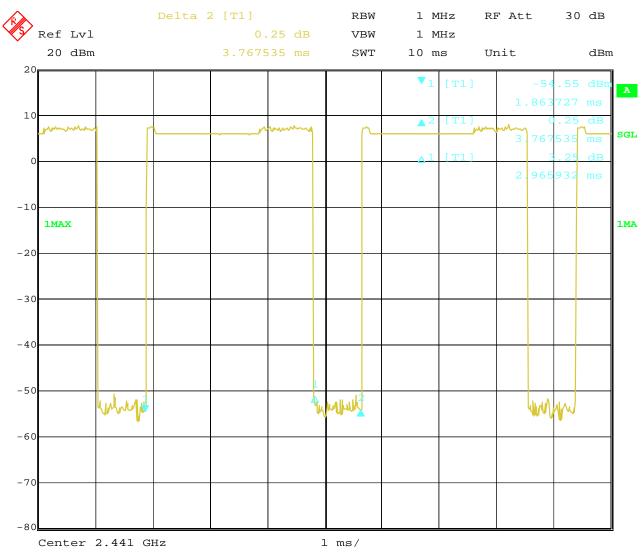
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Page 58 of 86

Test Plots: 3DH5



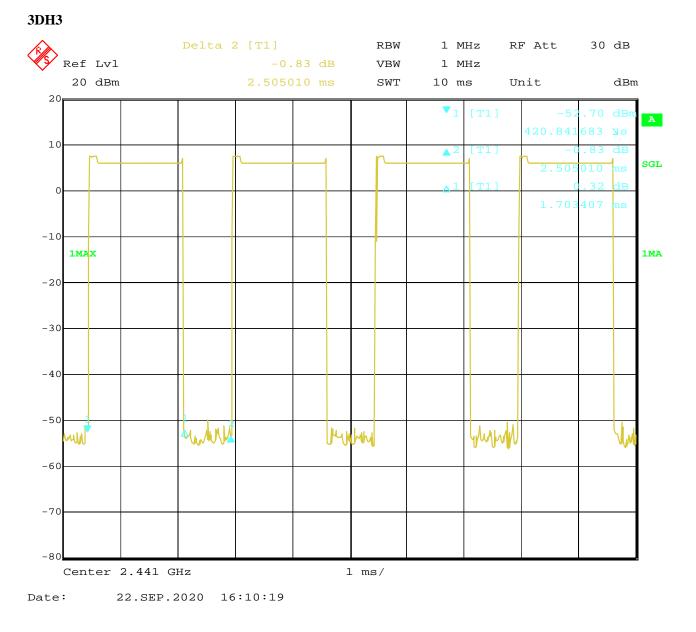
22.SEP.2020 16:10:56 Date:

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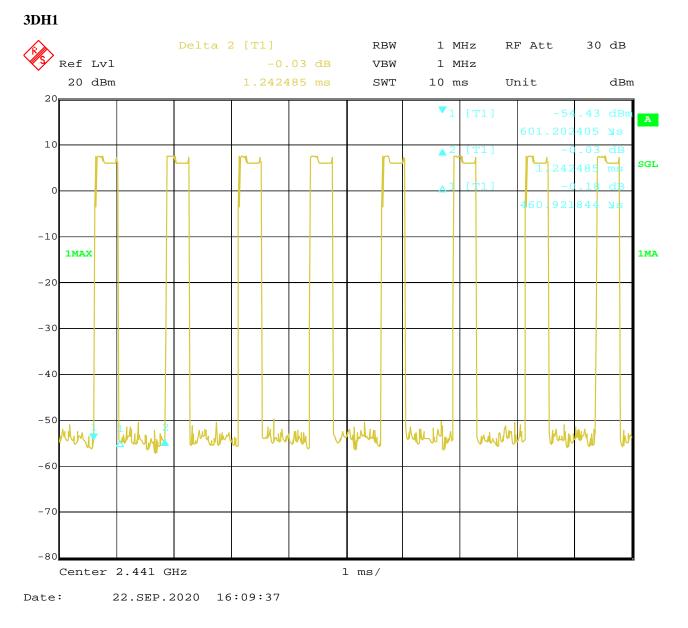


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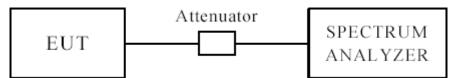
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12 Out of Band Measurement

12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

12.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

12.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. Peak values with RBW=VBW=1MHz and PK detector.

For bandage test, the spectrum set as follows: RBW=100kHz, VBW=300 kHz. A conducted measurement used

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

2. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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Type of Modulation: GFSK

Band Edge Test Result 12.4

Product:	Bluetooth Wired Test Mode: Headphones			Low Channel					
Mode	Keeping Transmitting 24 deg. C		Input	Voltage	DC3.7V 56% RH				
Temperature			Humi	dity					
Test Result:	Pas	S	Detec	tor			РК		
Fest Figure:			•						
k A	Marker	1 [T1]		RBW	100 k	KHz	RF Att	30 dB	
🚺 Ref Lvl			dBm	VBW	300 k	KHz			
20 dBm		2.40194389	GHz	SWT	15 n	ns	Unit	dBm	
20					▼1	[T1]	8	.41 dBm	
1.0							2.40194	389 GHz	
10					₹2	[T1]	- 43	.72 dBm	
					∇ ₃	[[[]]]	2.40000	1000 GHz	
0					* 3	[.1.1.]	2.39000	. IU UBII	
							2.55000		
-10									
1MAX								11	
-20									
-30									
-40							2		
-50									
			H	Muleur	3		. W	Willing	
-60	an multiple	m Mallen	hum	mun	Munion	mun	~~	MANIMU	
-70									
- / 0									
-80 Start 2.35	5 GHz	I	6 M	Hz/		1	Stop 2	2.41 GHz	

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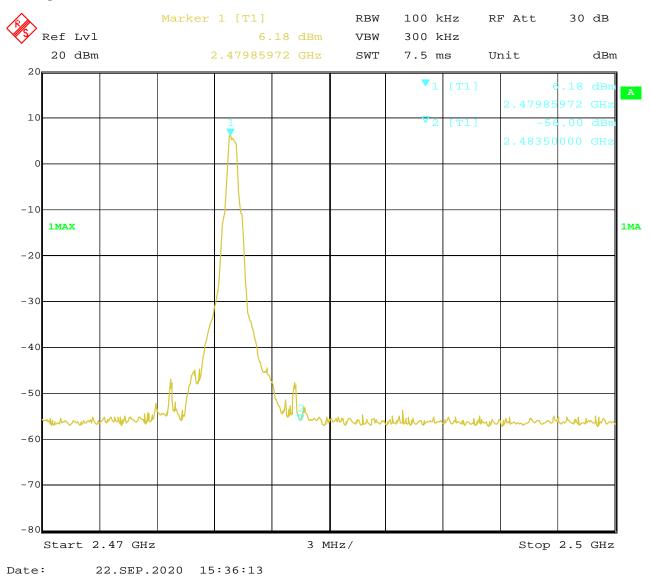


Type of Modulation: GFSK

12.4 Band Edge Test Result

Product:	Bluetooth Wired	Test Mode:	High Channel
	Headphones		
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	РК

Test Figure:



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Type of Modulation: GFSK

Band Edge Test Result 12.4

Product:	Bluetooth Wired Headphones	Test Mode:	Hopping mode				
Mode	Hopping On	Input Voltage	DC3.7V				
Temperature	24 deg. C,	Humidity	56% RH				
Test Result:	Pass	Detector	РК				
Fest Figure:							
Real Contractions of the second se	Marker 1 [T1]	RBW	100 kHz RF Att 30 dB				
🛛 Ref Lvl		.42 dBm VBW	300 kHz				
20 dBm	2.40194	389 GHz SWT	15 ms Unit dBm				
			▼1 [T1] 8.42 dBm 2.40194389 GHz				
10			▼2 [T1] ↓46.98 dBm 2.40000000 dH2 ▼3 [T1] →65.62 dPm				
-10			2.39000000 GEE				
1MAX			1M2				
-20							
-30							
-40			2				
- 5 0							
-60	while mander all and the series	mhannerwelller	Munimum W				
-70							
-80 Start 2.3	5 GHz	6 MHz/	Stop 2.41 GHz				

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Type of Modulation: GFSK

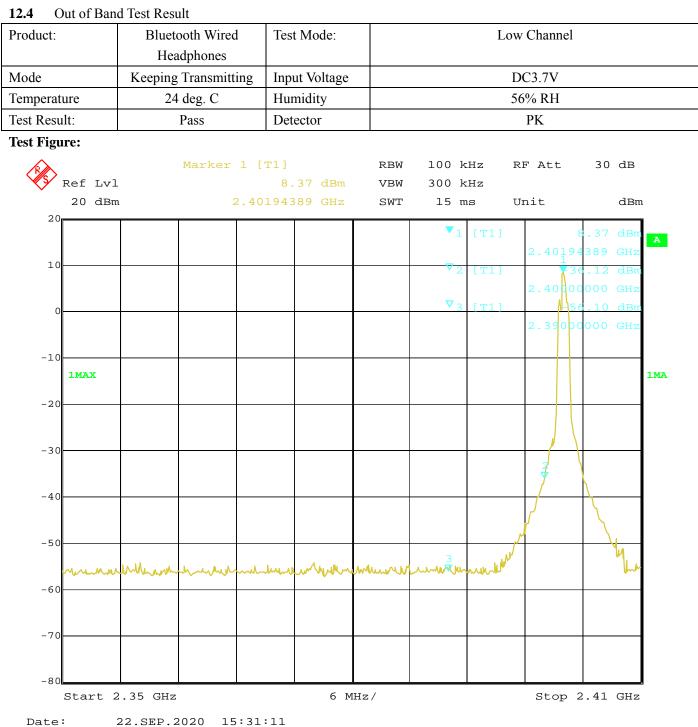
Band Edge Test Result 12.4

Product:	Bluetooth Wired Headphones Hopping On 24 deg. C,		Test N	Mode:]	Hopping mo	ode				
Mode			Mode Hopping On		Input Voltage			DC3.7V				
Temperature							56% RH					
Test Result:	Pass	Pass Detector				РК						
est Figure:												
Ŕ	Marker	1 [T1]		RBW	100	kHz	RF Att	30 dB				
🔗 Ref Lvl			.42 dBm	VBW	300							
20 dBm	:	2.47084	168 GHz	SWT	7.5	ms	Unit	dBm	ı			
20					▼1	[T1]		6.42 dBm	A			
							2.4708	4168 GHz				
10					▼ 2	2 [T1]	-5	6.19 dBm				
	h M M M M N I	<u>h h</u>					2.4835	0000 GHz				
0												
	<u> </u>								1M			
-20												
- 30		ų										
-50												
-60			Miltin	mehme	work	with	manahan	Mun				
-70												
-80	7 GHz		3 M	Hz/			Stop	2.5 GHz	U			

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Type of Modulation: Л/4D-QPSK

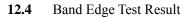


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Type of Modulation: Л/4D-QPSK



Product:	Bluetooth Wired Headphones			Test Mode:			High Channel					
Mode	Keeping Transmitting			Input Voltage			DC3.7V					
Temperature		24 deg	g. C,		Humidity			56% RH				
Test Result:		Pas	s			Detector				РК		
Test Figure:												
K		Marker	1 [T1]			RBW	100	kHz	RF A	tt	30 dB	
Ref Lvl			5	.93	dBm	VBW	300	kHz				
20 dBm		1	2.47985	972	GHz	SWT	7.5	ms	Unit		dBr	n
20							•	1 [T1]		5.	93 dBr]
									2.	479859	72 GHz	A
10			1					2 [T1]		-45.	50 dBr	d
			h						2.	483500	00 GHz	5
0												
-10												
1MAX												1M2
-20												
-30												
50		│	¶ \									
		<i></i>		\mathbf{N}								
-40		گم		M.	2							
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mmulum	W.M.					Million	-lame	monul	Mul	mun	hand	
-60												
-70												-
-80												
Start 2.4	47 GHz				3 №	IHz/			i	Stop 2	.5 GHz	2

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Type of Modulation: Л/4D-QPSK

12.4 Out of Band Test Result

Product:	Bluetooth Wired Headphones	Test Mode:	Hopping mode
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	РК
Test Figure:			
R R R R R R R R R R R R R R R R R R R	Marker 1 [T1]	RBW	100 kHz RF Att 30 dB
Ref Lvl		.08 dBm VBW	300 kHz
20 dBm	2.40386	774 GHz SWT	15 ms Unit dBm
20			▼1 [T1] 8.08 dBm 2.40386774 GHz
10			▼2 [T1] -3 Y .06 dBm
0			2.40000000 0Hz ▼3 [T1] -55119 000
			2.3900000 G#2
-10 1MAX			1MA
-20			
- 30			
- 4 0			
-50	mungum	fremmelument	Mut un un un
-60			
-70			
-80 Start 2.35	5 GHz	6 MHz/	Stop 2.41 GHz

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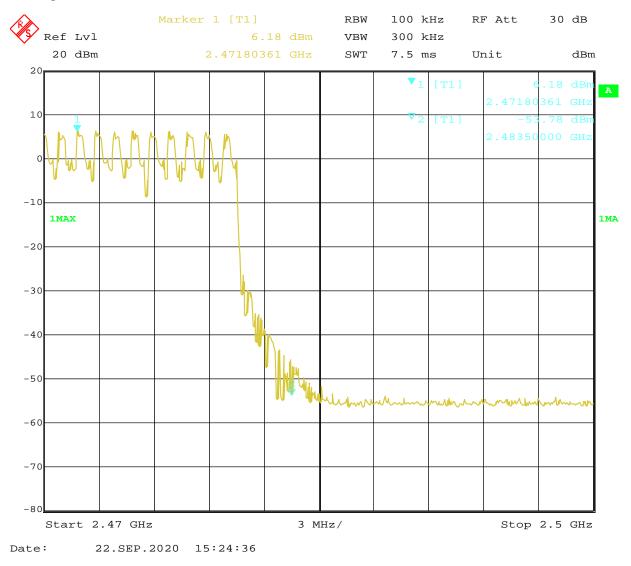


Type of Modulation: Л/4D-QPSK

12.4 Out of Band Test Result

Product:	Bluetooth Wired	Test Mode:	Hopping mode
	Headphones		
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	РК

Test Figure:



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Type of Modulation: 8DPSK

Band Edge Test Result 12.4

Product:	Bluetooth Wire Headphones	d Test Mo	ode:		Low Chann	el		
Mode	Keeping Transmitting Input Voltage			DC3.7V				
Temperature	24 deg. C	Humidi	ty		56% RH			
Test Result:	Pass	Detecto	r		РК			
Test Figure:								
R A	Marker 1 [T1]	RBW	100 kHz	RF Att	30 dB		
🛿 Ref Lvl		8.46 dBm	VBW	300 kHz				
20 dBm	2.40	194389 GHz	SWT	15 ms	Unit	dBm		
20				▼1 [T1]]	8.46 dBm		
					2.4019	4389 GHz		
10				▼2 [T1]]	2.51 dBm		
				∇ 3 [m1	2.4000	0000 GHz		
0				▼ <u>3</u> [<u>T</u> 1]		5.64 dBm		
					2.3900	0000 GHz		
-10								
1MAX						11		
-20								
-30								
5.0								
10								
-40					7			
					N.			
-50				3	, / [~]			
human	whanker	and an house	manne	nhut much-	h-hur	Mule		
-60						<u> </u>		
-70								
-80								
Start 2.3	5 GHz	6 MI	Hz/		Stop 2	2.41 GHz		

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Type of Modulation: 8DPSK

12.4 Band Edge Test Result Bluetooth Wired High Channel Product: Test Mode: Headphones Keeping Transmitting Input Voltage DC3.7V Mode 24 deg. C, Humidity 56% RH Temperature Test Result: Pass Detector PK **Test Figure:** 30 dB Marker 1 [T1] RBW 100 kHz RF Att Ref Lvl 5.94 dBm VBW 300 kHz 20 dBm 2.47985972 GHz 7.5 ms dBm SWT Unit 20 Α 10 -1 1MAX **1MA** -20 -30 -40 -50 my the Maria Le Carlande -61 -70 -80 Start 2.47 GHz 3 MHz/ Stop 2.5 GHz 22.SEP.2020 15:34:05 Date:

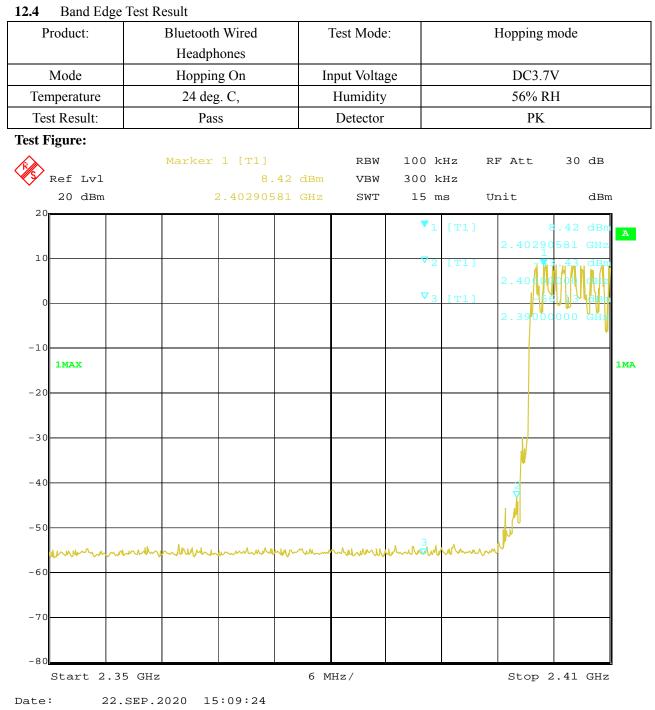
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Type of Modulation: 8DPSK



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Type of Modulation: 8DPSK

12.4 Band Edge Test Result

Product:	Bluetooth Wired Headphones	Test Mode:	Hopping mode
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	РК

Test Figure:

Ref Lvl				.20 dBm		100 k 300 k		F Att	30 dB	
20 dBm				133 GHz				nit	dBn	ı
20						▼1	[T1]	e 2.4721e	.20 dBm 433 GHz	A
	MMr	1. M. M. (11			₹2	[T1]	-50 2.48350	.29 dBm 000 GHz	
-10	N w	$h \downarrow h$								
1MAX										1MA
-20										
- 3 0			V							
-40			- W							
-50				Man	man	numan	melmon	monor	munh	
-60										
-70										
-80 Start 2.4	47 GHz			3 M	Hz/			Stop	2.5 GHz	ļ
Date: 22	.SEP.2	020 15	:05:08							

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12.4 **Restrict Band Measurement**

]	EUT		etooth W		Мс	del		Н	100	
				eadphon							
	N	Mode	-	Transm	-		/oltage		DC	23.7V	
]	Гem	perature	2	24 deg. C	· ,	Hum	idity		56%	% RH	
,	Test	t Result:		Pass		Modulat	ion Type		GF	FSK	
	art 15B 0E+2-r	Class B 1GHz-18GHz	2 - 2								
1.	0212										
	90-									\frown	
	80-									/	
	70-									/	
Ê										$/ \langle \rangle$	
level (dBuV/m)	60-									(
eve	50-								/		
	50-							M1	/		
	40-								in the second		
		han in sector in the sector	de hilder-griegher de son hersen eiter	nan di kapa di bish di pakisi di	anter stand of the second stands	had a free for the second on the second of the	anginthing they bear and	M			No.
	30- 23	50									24
			1		1	Frequency (1	1	1	1	-
Nc).	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdie
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
		2390.340	41.09	-3.53	54.0	-12.91	Peak	227.00	100	н	Pass

The report refers only to the sample tested and does not apply to the bulk.

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12.4 Restrict Band Measurement

	EUT	Bluet	tooth Wire	ed Headphon	es	Model			H100	
	Mode		Keep Tra	nsmitting	Inj	out Voltage	;		DC3.7V	
Т	emperature		24 de	eg. C,	I	Humidity			56% RH	
Т	est Result:		Pa	SS	Mod	lulation Ty	pe		GFSK	
	15B Class B 1GHz-18	GHz - 2								
1.0E	+2-									
	90-									
									\wedge	
	80-									
	70-								/	
Ê										
level (dBuV/m)	60-								- +	
eve	50-							/	<u> </u>	
	50-						M1	A State of the second		\backslash
	40-						Manufacture and the second			
	allahan dan selaman dan selamatan selamatan selamatan selamatan selamatan selamatan selamatan selamatan selamat		international and the second	apple and a low allow a projection of the	allana karitana ali ali ayan	antering and the strength of the	ſ			Hillichichilentete
	30- 2350									2410
			.	-	Frequency (N	/Hz)			-	
No	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
•	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2390.325	44.27	-3.53	54.0	-9.73	Peak	166.00	100	V	Pass

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12.4 Restrict Band Measurement

	E	EUT	Blue	etooth Wired		Model			I	H100	
			Н	eadphones							
	Ν	1ode	Keep	Transmittin	g	Input Volt	age		D	C3.7V	
Temperature		perature	2	24 deg. C,		Humidi	ty		56	% RH	
T	ſest	Result:		Pass		Modulation	Туре		G	FSK	
	C Part : E+2-	15B Class B 1GHz-1	8GHz - 2								
	90-				$\overline{)}$						
	80-										
	70-										
	60-										
	50-	50-				4					
	40-					Martin Martiness and Andrew	Annamatrica - a an		n an ait an ta n	t i birai	
	30-					. to putpy	and Lotter by the second second second				nder of the second s
	20- 247	0			248	33.5 Frequency (MHz)					250
		Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
No.				1					. ,		

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	EUT	Bh	etooth V	Vired	М	odel			H100	
	LUI		Ieadphoi						11100	
	Mode		p Transn		Input	Voltage]	DC3.7V	
J	Temperature		24 deg. (-	_	nidity		4	56% RH	
	Test Result:	Modula	tion Type			GFSK				
	rt 15B Class B 1GHz-18GH DE+2-r	z - 2								
1.0										
	90-			\frown						
	80-									
			/							
	70-			$ \longrightarrow $						
3uV/m)	60-				\					
level (dBuV/m)										
	50-		/							
	40-	/								
	Li gelostan Li almetikasio al	CAMPING PLANT SAME			No.			Louis de la Carlo de la Car	and the state of the	www.sh.un.anderlipe.seedine
	30- 2470				2483.5					2500
		1	1	1	Frequency (N	1		1	1	
			Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
No		Results								
No 1	 Frequency (MHz) 2483.517 	Results (dBuV/m) 50.40	(dB)	(dBuV/m) 54.0	(dB) -3.60	Peak	357.00	(cm) 100	V	Pass

Note: 1. For Restricted band test, only the worst case was reported and GFSK was the worst case

2. The measured PK radiated emissions level less than the AV limit, so no necessary to take down the AV result

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13.0 Antenna Requirement

13.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2 Antenna Connected constructions PCB antenna used. The gain is -0.58dBi.

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Page 79 of 86

14.0 FCC ID Label

FCC ID: 2AGKL-H100

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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15.0 Photo of testing

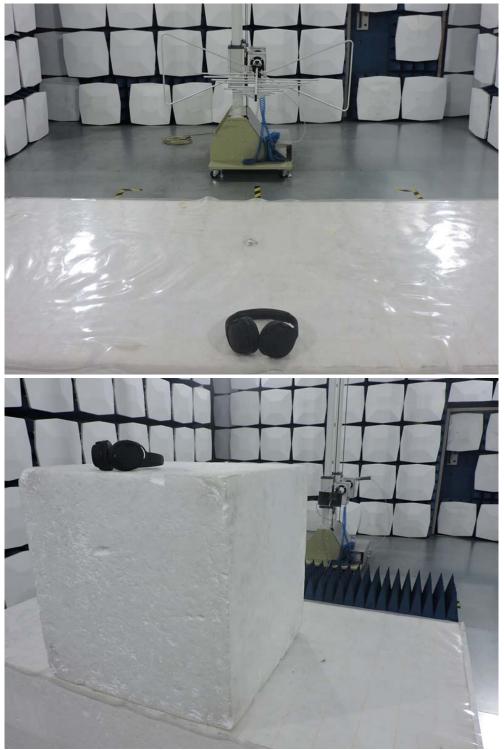
Conducted Emission Test Setup:



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Radiated Emission Test Setup:



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Photographs – EUT



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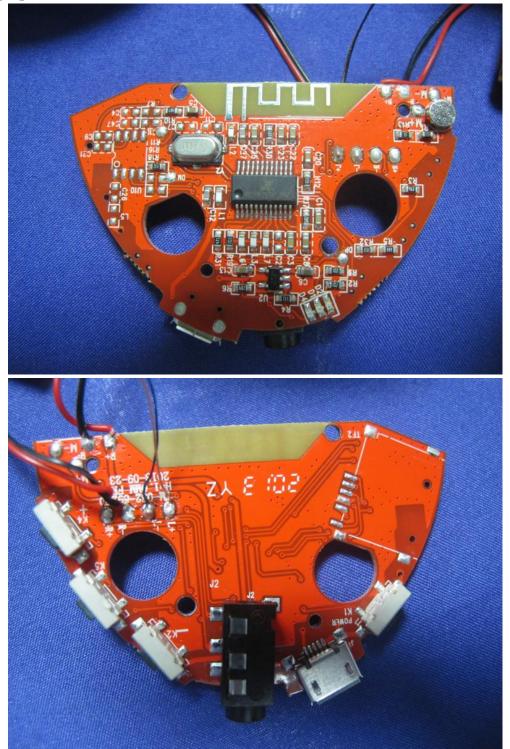
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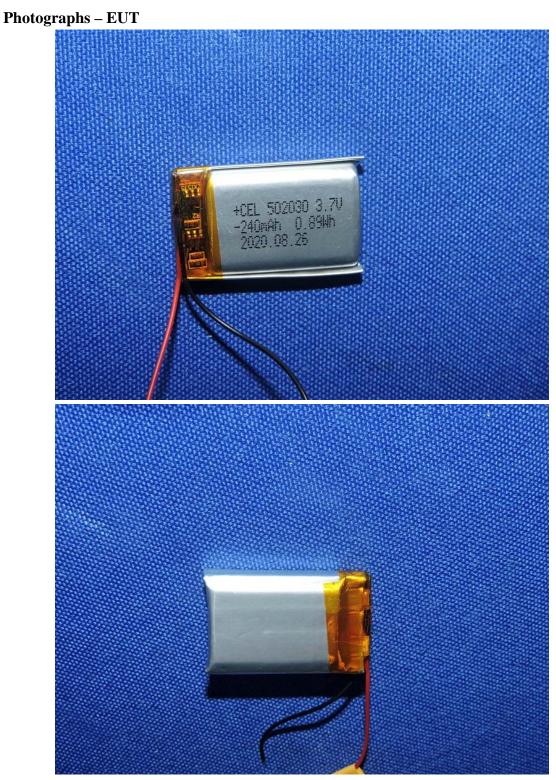


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End of Report

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