

Report No.: File Reference No.: TW2106339E 2021-07-12

Applicant: SHENZHEN SURE THING INDUSTRY AND COMMERCE DEVELOPMENT CO., LTD.

Product: Bluetooth transmitter

Model No.: BTH01, BTH02

Brand Name: BESIGN

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



Dated:

July 12, 2021

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 meet 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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1.0 **General Details**

Test Lab Details 1.1

SHENZHEN TIMEWAY TESTING LABORATORIES. Name : Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Address: Village, Nanshan District, Shenzhen, China Telephone: (755) 83448688 (755) 83442996 Fax: Site Listed with Federal Communications commission (FCC) Registration Number:744189 For 3m Anechoic Chamber Site Listed with Industry Canada of Ottawa, Canada Registration Number: IC: 5205A For 3m Anechoic Chamber

1.2 Applicant Details

Applicant:	SHENZHEN SURE THING INDUSTRY AND COMMERCE DEVELOPMENT CO.,LTD.
Address:	Building 6, 1st Phase of Fu'an Industrial City, 99th Dayang Road, Fuhai Town, Bao'an District,
	Shenzhen, China.
Telephone:	86-755-26509966
Fax:	86-755-26617277

1.3 Description of EUT

Product:	Bluetooth transmitter			
Manufacturer:	SHENZHEN SURE THING INDUSTRY AND COMMERCE DEVELOPMENT CO.,			
	LTD.			
Address:	Building 6, 1st Phase of Fu'an Industrial City, 99th Dayang Road, Fuhai Town, Bao'an			
	District, Shenzhen, China.			
Brand Name:	BESIGN			
Model Number:	BTH01			
Additional Model Num	iber: BTH02			
Hardware Version: SH:	59-C70-V4			
Software Version: TVX	X59-V2-1-202103221156			
Serial No.: TVX59D00	0000001			
Type of Modulation	GFSK, JI/4D-QPSK, 8DPSK for Bluetooth			
Frequency range 2402-2480MHz for Bluetooth				
Channel Spacing 1MHz for Bluetooth				
Frequency Selection By software				
Channel Number	Channel Number 79 channels for Bluetooth			
Antenna:	PCB antenna used. The gain of the antennas is 2.0dBi (get from the antenna			

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specification provided the applicant)

Input Voltage:

DC5V

- 1.4 Submitted Sample: 1 Samples
- 1.5 Test Duration 2021-06-28 to 2021-07-12
- 1.6 Test Uncertainty

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 too coverage factor of k=2 and a level of confidence of 95%.

Tang

1.7 Test Engineer The sample tested by

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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	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2021-07-02	2024-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2021-01-15	2022-01-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2021-06-18	2022-06-17
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

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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3.0 **Technical Details**

3.1 Summary of test results

CFR 47 Section	l.	
	Result	Notes
15.203, 15.247(b)(4)	PASS	Complies
15.247 (b)(1), (4)	PASS	Complies
15.247(a)(1)	PASS	Complies
15.247 (a)(1)	PASS	Complies
15.247(a)(iii), 15.247(b)(1)	PASS	Complies
15.247(a)(iii)	PASS	Complies
15.247(d),15.205(a), 15.209 (a),15.109	PASS	Complies
15.207(a), 15.107	PASS	Complies
15.247(i), 1.1307(b)(1)	PASS	Complies
	15.247 (b)(1), (4) 15.247 (a)(1) 15.247 (a)(1) 15.247 (a)(iii), 15.247 (b)(1) 15.247 (a)(iii) 15.247 (a)(iii) 15.247 (d),15.205 (a), 15.209 (a),15.109 15.207 (a), 15.107	15.247 (b)(1), (4) PASS 15.247 (a)(1) PASS 15.247 (a)(1) PASS 15.247 (a)(1) PASS 15.247 (a)(iii), 15.247 (b)(1) PASS 15.247 (a)(iii) PASS 15.247 (a)(iii) PASS 15.247 (a)(iii) PASS 15.247 (a)(iii) PASS 15.247 (a), 15.205 (a), PASS 15.209 (a), 15.109 PASS 15.207 (a), 15.107 PASS

3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 **EUT Modification**

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

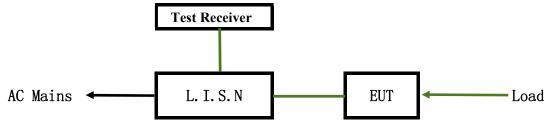
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5. **Power Line Conducted Emission Test**

5.1 Schematics of the test

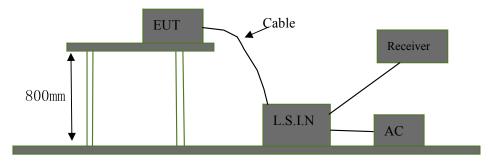


EUT: Equipment Under Test

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 500hm/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. EUT

Device	Manufacturer	Model	FCC ID
	SHENZHEN SURE THING		
Bluetooth transmitter	INDUSTRY AND COMMERCE	BTH01, BTH02	2ABFFTVX59D
	DEVELOPMENT CO.,LTD.		

B. Internal Device

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 (d	ΙB 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

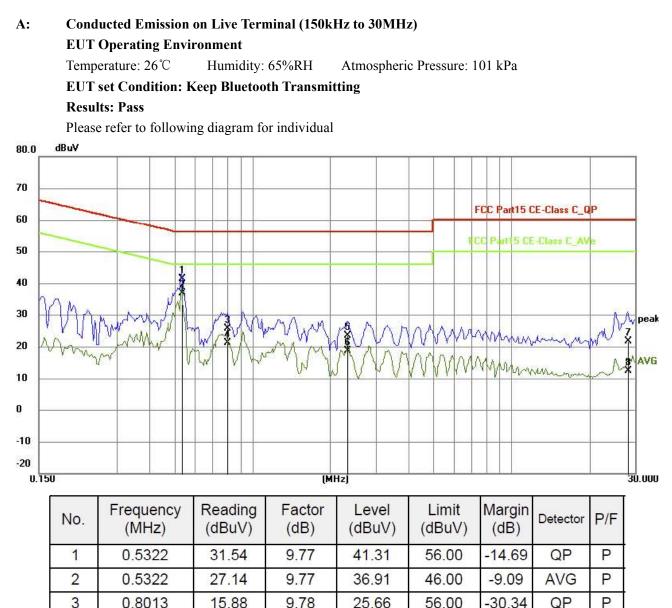
The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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7

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0.8013

2.3301

2.3301

28.0224

28.0224

11.28

13.64

8.80

10.39

1.12

9.78

9.81

9.81

11.18

11.18

21.06

23.45

18.61

21.57

12.30

46.00

56.00

46.00

60.00

50.00

-24.94

-32.55

-27.39

-38.43

-37.70

AVG

QP

AVG

QP

AVG

P

Ρ

P

Ρ

Ρ

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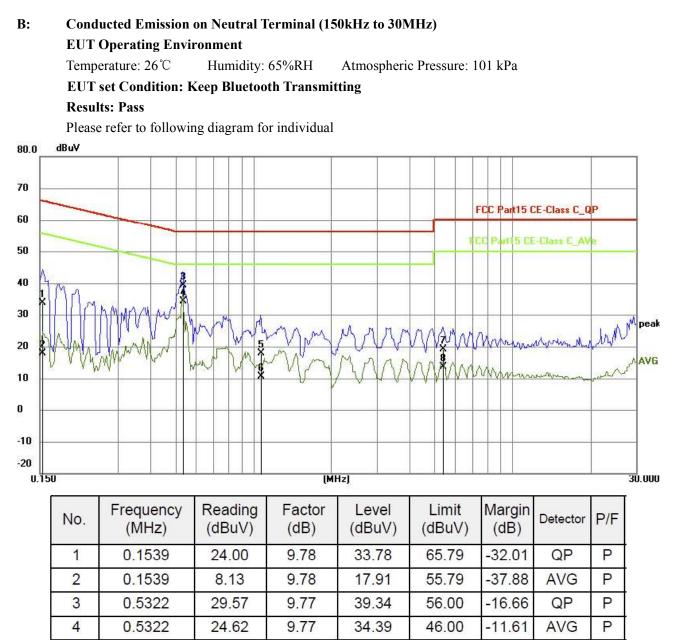
Ρ

QP

AVG

QP

AVG



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

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8

1.0665

1.0665

5.3712

5.3712

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9.79

9.79

9.94

9.94

8.03

0.92

9.20

3.57

17.82

10.71

19.14

13.51

56.00

46.00

60.00

50.00

-38.18

-35.29

-40.86

-36.49

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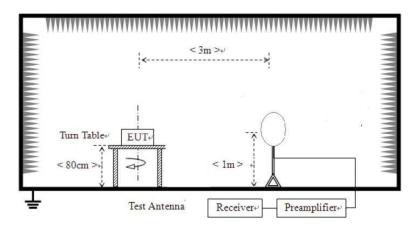


6 Radiated Emission Test

- 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

For radiated emissions from 9kHz to 30MHz



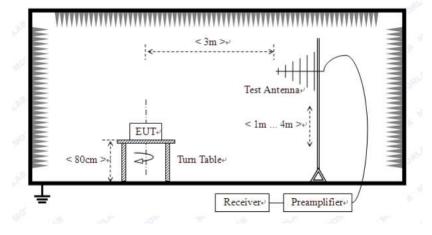
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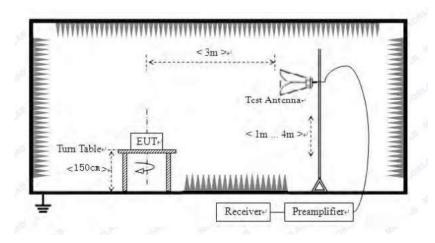
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 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.
- 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:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

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. 8DPSK was the worst case because it has highest output power

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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:

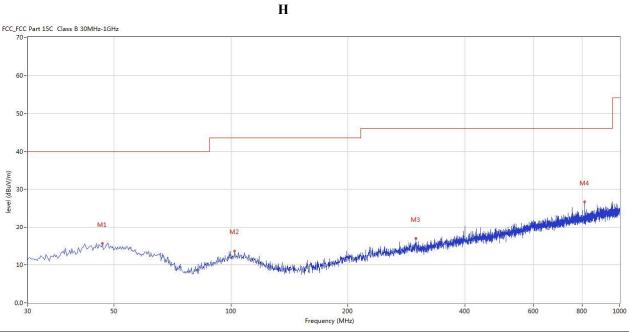
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Test Figure:



No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	46.728	15.70	-11.44	40.0	-24.30	Peak	216.00	100	Horizontal	Pass
2	102.247	13.66	-13.42	40.0	-26.34	Peak	266.00	100	Horizontal	Pass
3	298.865	16.99	-11.10	47.0	-30.01	Peak	214.00	100	Horizontal	Pass
4	812.594	26.68	-2.94	47.0	-20.32	Peak	192.00	100	Horizontal	Pass

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Pass

Vertical

Test Figure:

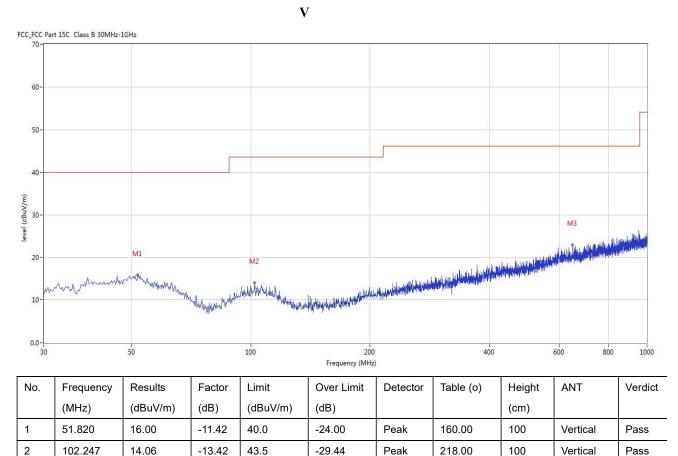
3

648.220

22.93

-4.60

46.0



-23.07

Peak

270.00

100

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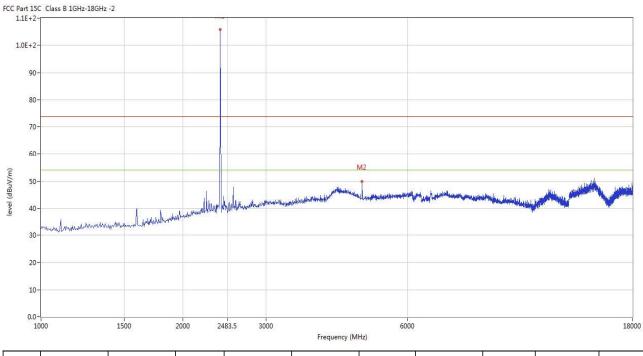
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Figures above 1GHz:

Please refer to the following test plots for details:

Low Channel: Vertical



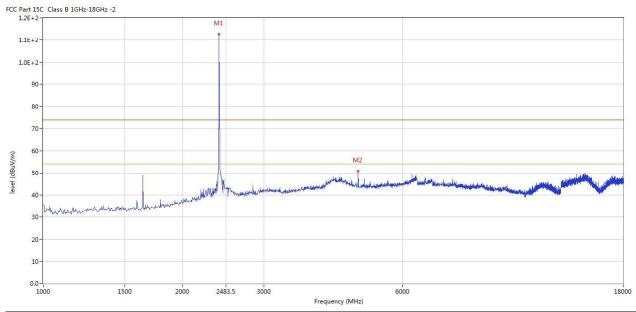
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	4802.799	49.91	3.12	74.0	-24.09	Peak	283.00	100	Vertical	Pass

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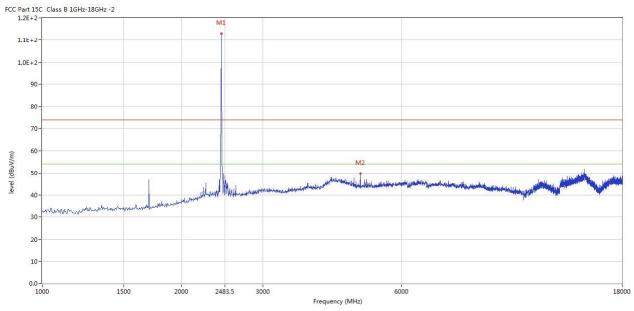
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	4802.799	50.90	3.12	74.0	-23.10	Peak	262.00	100	Horizontal	Pass

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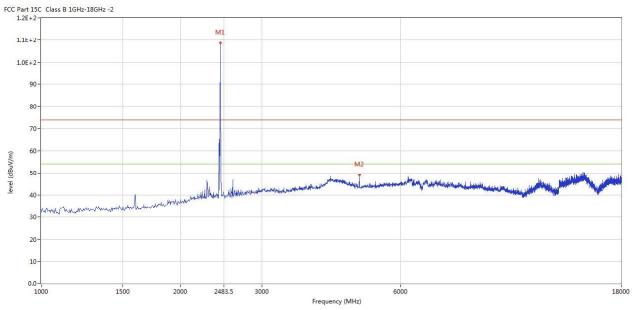
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2	4879.280	49.73	3.20	74.0	-24.37	Peak	282.00	100	Horizontal	Pass

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Middle Channel: Vertical



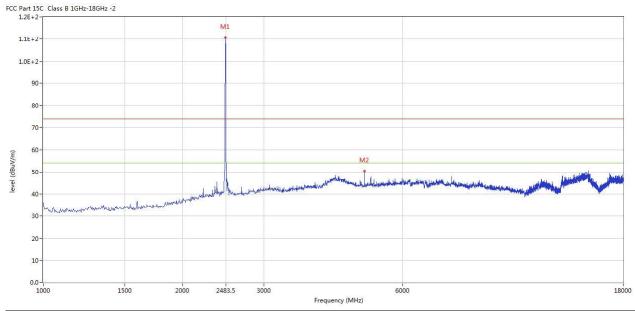
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2	4879.280	49.12	3.20	74.0	-24.88	Peak	271.00	100	Vertical	Pass

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High Channel: Horizontal

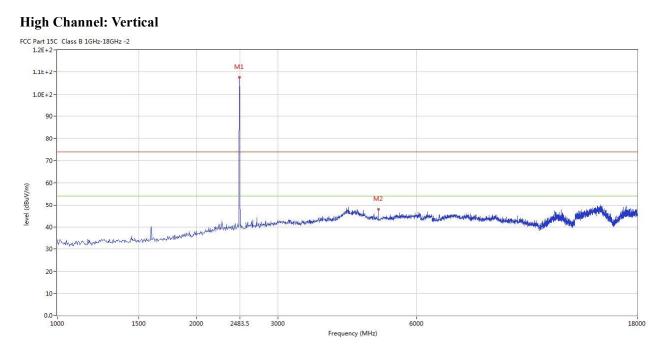


No	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	4960.010	50.36	3.36	74.0	-23.64	Peak	286.00	100	Horizontal	Pass

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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)		
2	4960.010	48.85	3.36	74.0	-25.15	Peak	259.00	100	Vertical	N/A

Note: 1. Level = Reading + AF + Cable - Preamp

2. For the radiated emissions above 18G and Below 30MHz, it is the floor noise.

3. The measured PK value less than the AV limit, no necessary to take down the AV measurement 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	Blue	etooth transmitter	Model	BTH01
Mode	Ke	ep Transmitting	Input Voltage	120V~
Temperat	ure	24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail
Low	2402	878		Pass
Middle	2441	884		Pass
High	2480	878		Pass

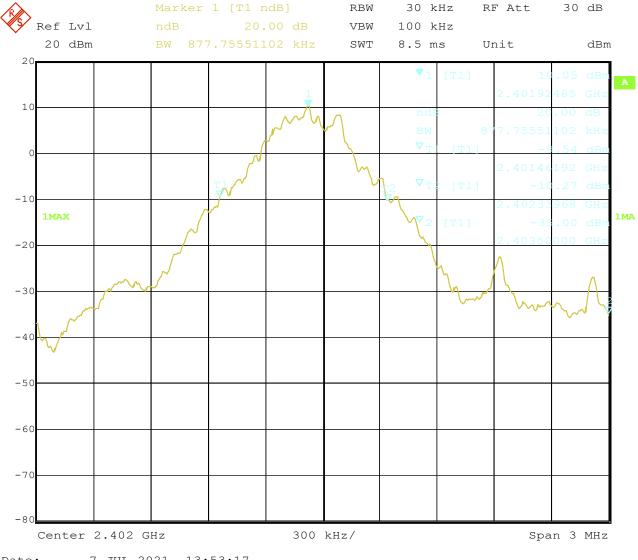
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Test Figure: 1. Condition: Low Channel



Date:

7.JUL.2021 13:53:17

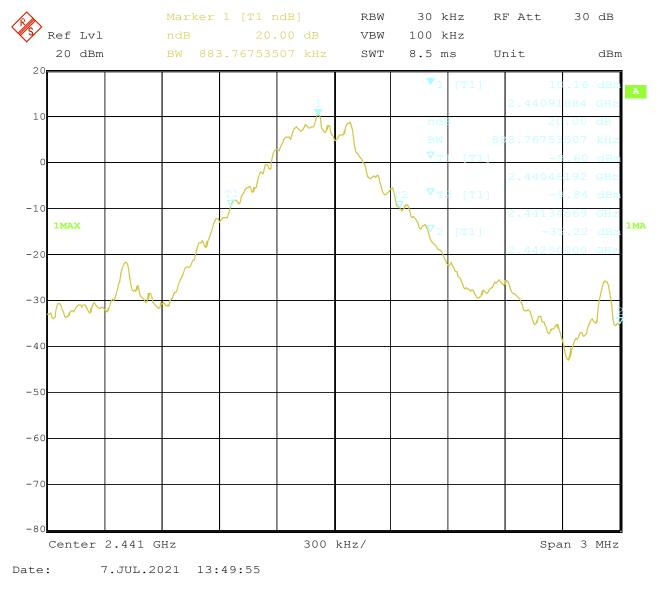
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2. Condition: Middle Channel



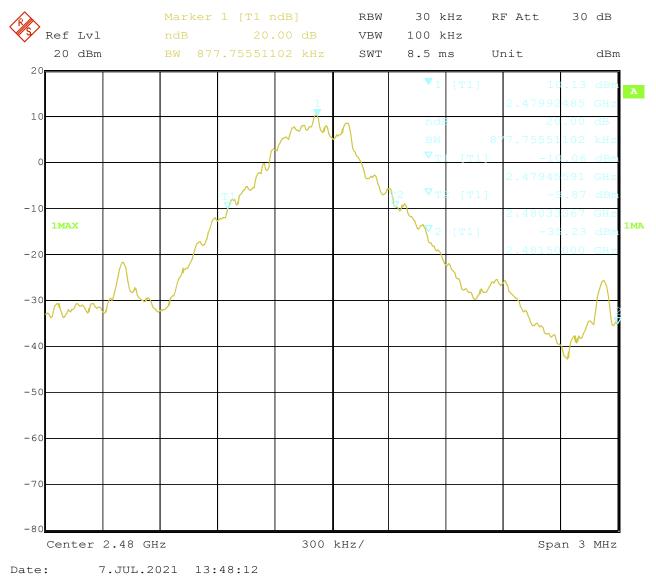
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3. High Channel



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Test Result

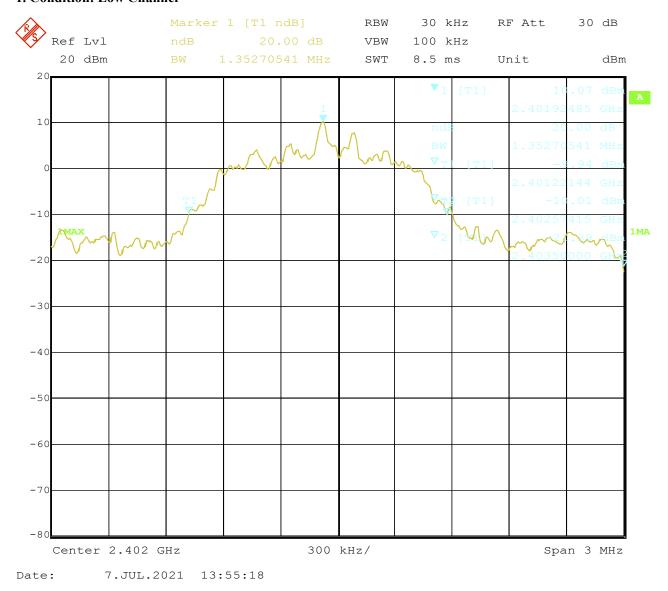
Type of Modulation: Л/4D-QPSK

EUT	Blu	etooth transmitter	Model	BTH01
Mode	Ke	eep Transmitting	Input Voltage	120V~
Temperat	ure	24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1353		Pass
Middle	2441	1383		Pass
High	2480	1383		Pass

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Test Figure: 1. Condition: Low Channel

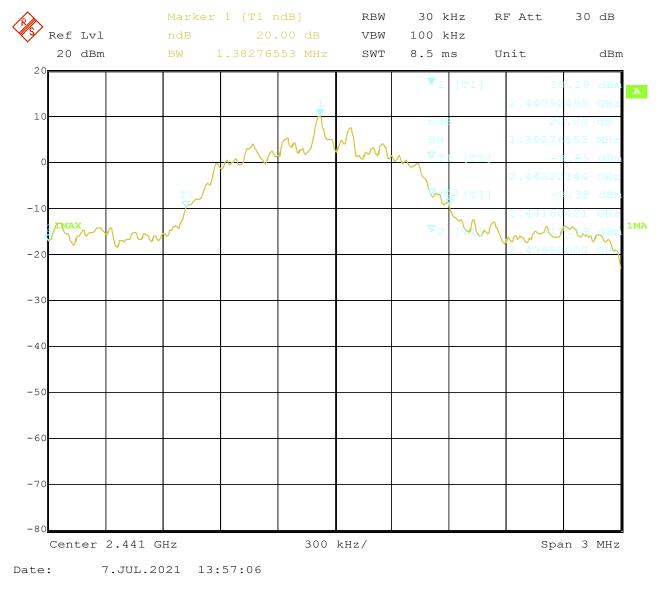


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2. Condition: Middle Channel



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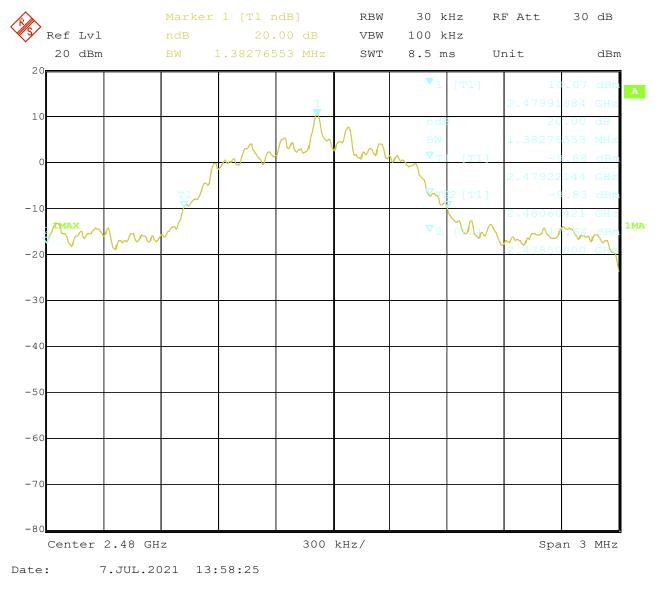
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3. High Channel



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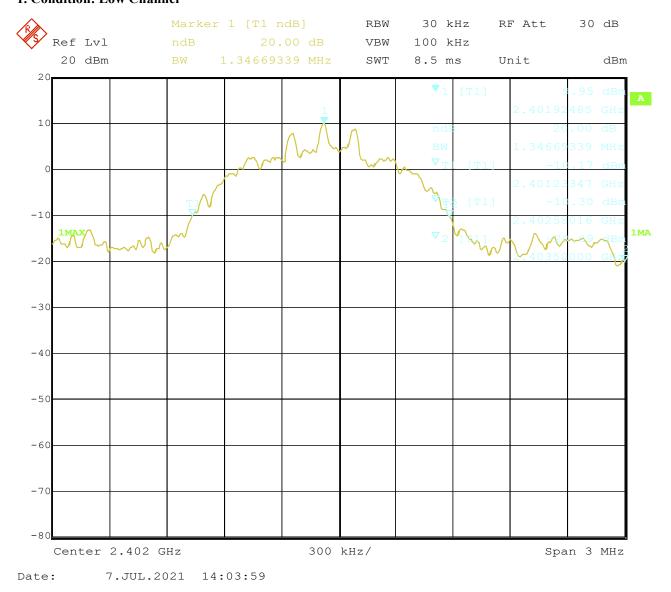
Test Result Type of Modulation: 8DPSK

EUT	Blu	etooth transmitter	Model	BTH01
Mode	K	eep Transmitting	Input Voltage	120V~
Temperat	ure	24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1347		Pass
Middle	2441	1365		Pass
High	2480	1359		Pass

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Test Figure: 1. Condition: Low Channel



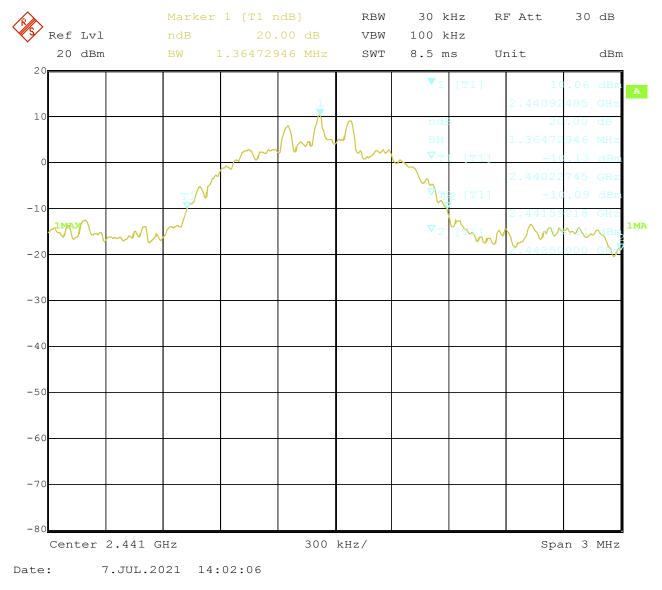
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Page 34 of 85

2. Condition: Middle Channel



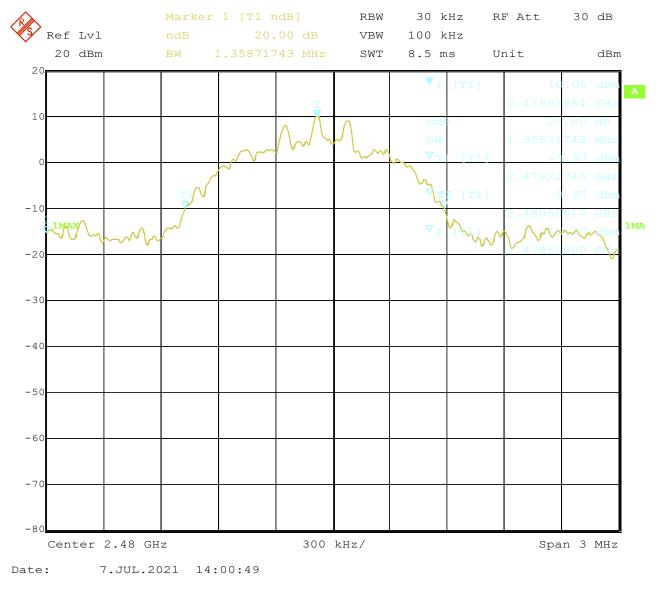
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3. High Channel



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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 = 10MHz, 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	Blu	Bluetooth transmitter		Aodel	BTH01
Mode	K	Keep Transmitting Input V		Voltage	120V~
Temperature	e	24 deg. C, Humic		dity	56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)		Peak Power Limit	Pass/ Fail
Low	2402	Peak 12.75		(dBm) 30	Pass
Middle	2402	12.75		30	Pass
High	2480	12.89		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: Л/4D-QPSK

EUT	Bluetooth transmitter		Model		BTH01		
Mode	K	Keep Transmitting		Voltage	120V~		
Temperature	e	24 deg. C, Hum		idity	56% RH		
Channel	Channel Frequency (MHz)	Max. Power Output (dBm Peak)	Peak Power Limit (dBm)	Pass/ Fail		
Low	2402	12.59		30	Pass		
Middle	2441	12.75		30	Pass		
High	2480	12.75		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		Bluetooth transmitter		Ν	Model	BTH01
Mode	Keep Transmitting		Input Voltage		120V~	
Temperatur	perature 24 deg. C, Hun		umidity	56% RH		
Channel	Channel Frequency		Max. Power Output (dBm)		Peak Power	Pass/ Fail
Channer		(MHz)	Peak		Limit (dBm)	
Low		2402	13.27		30	Pass
Middle		2441	13.27		30	Pass
High		2480	13.27		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.

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

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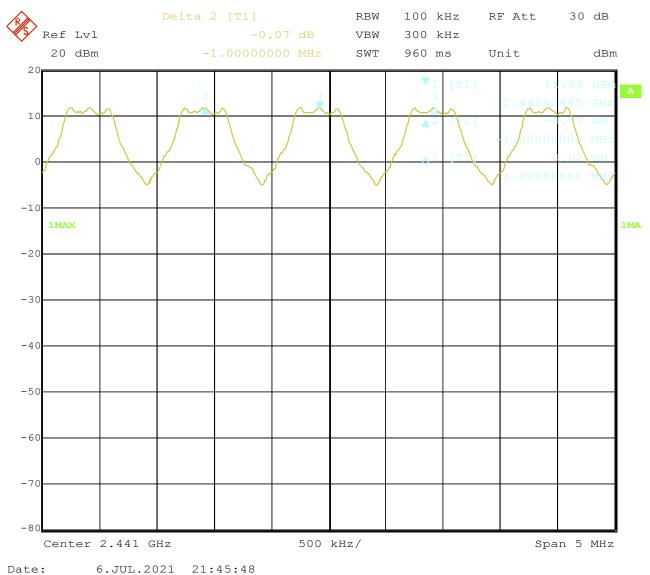


9.4Test Result

Type of Modulation: GFSK

EUT	Bluetooth transi	Model		BTH01	
Mode	Hopping O	Input Voltage		120V~	
Temperature	24 deg. C,		Humidity		56% RH
Carrier I	Carrier Frequency Separation				Pass/ Fail
	1.000MHz	\geq 25 kHz or 2/3	of the 20 dB ban	dwidth	Pass

Test Plots



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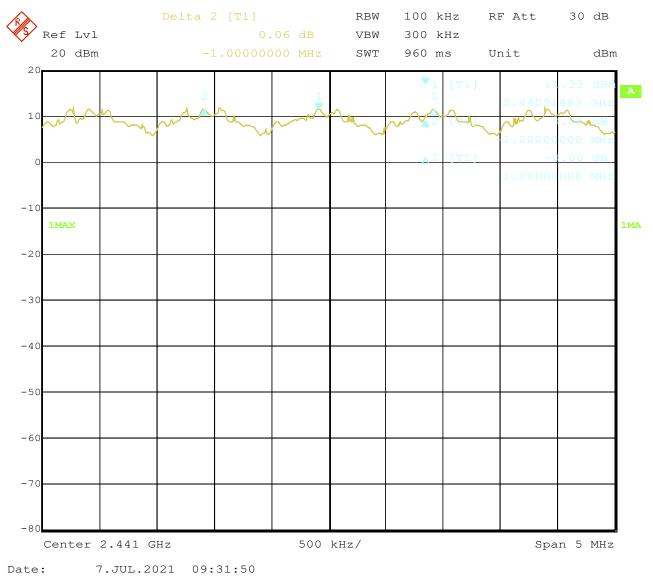
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Type of Modulation: Л/4D-QPSK

EUT	Bluetooth trans	Model		BTH01	
Mode	Hopping O	Input Voltage		120V~	
Temperature	24 deg. C,		Humidity		56% RH
Carrier I	Carrier Frequency Separation			-	Pass/ Fail
	1.000MHz	≥ 25 kHz or 2	2/3 of 20 dB bandw	width	Pass

Test Plots



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

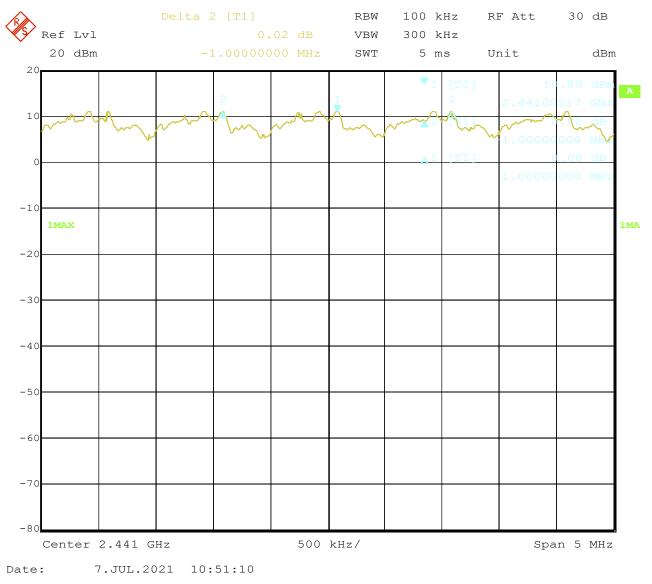
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Type of Modulation: 8DPSK

EUT	Bluetooth transi	Model		BTH01	
Mode	Hopping O	Input Voltage		120V~	
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)

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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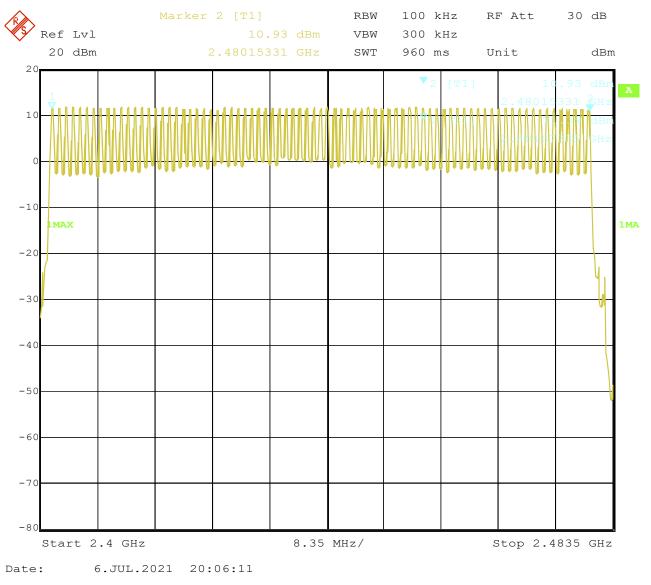


10.4Test Result

Type of Modulation: GFSK

EUT	Bluetooth transmitter		Model		BTH01	
Mode	Hopping On		Input Voltage	120V~		
Temperature		24 deg. C,	Humidity	56% RH		
Operating Frequency		Number of hop	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.

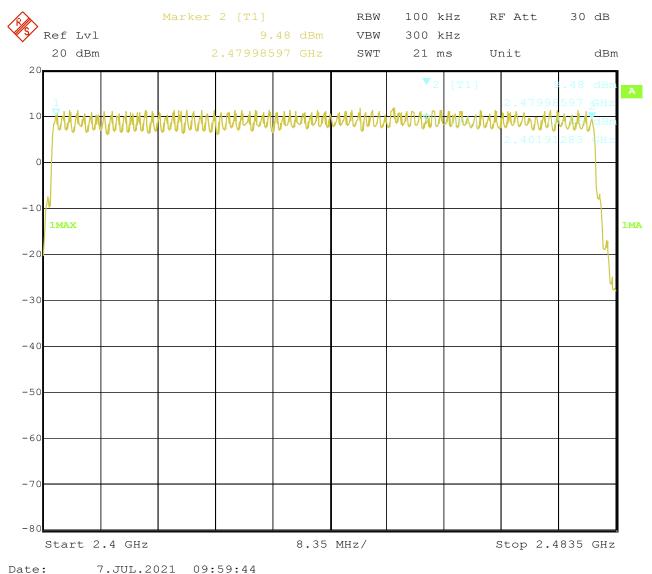
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Type of Modulation: Л/4D-QPSK

EUT	Bluetooth transmitter		Model		BTH01
Mode	Hopping On		Input Voltage		120V~
Temperature		24 deg. C,	Humidity		56% RH
Operating Frequency		Number of hopping 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.

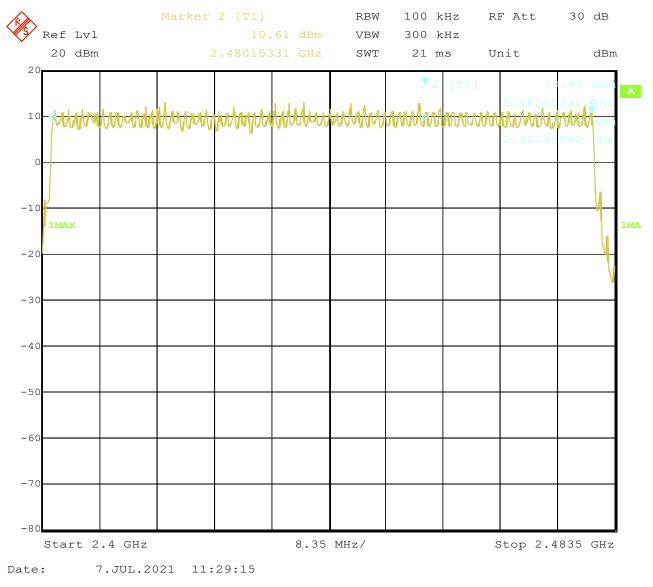
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Type of Modulation: 8DPSK

EUT	Bluetooth transmitter		М	odel		BTH01	
Mode	H	Iopping On	Input Voltage		120V~		
Temperature		24 deg. C,	Humidity			56% RH	
Operating Frequency		Number of hoppin channels	ng	Liı	nit	Pass/ Fail	
2402-2480MHz		79		>	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	Dhastast	Bluetooth transmitter Model			71101
EUT	Bluetooth	Bluetooth transmitter		E	3TH01
Mode	Keep Tra	Keep Transmitting		1	20V~
Temperature	e 24 d	e 24 deg. C, Hu		50	6% RH
Channel	Reading	Hoping	Hoping Rate		Limit
		-	DH1		
Middle	0.461ms	800 h	nop/s	0.148s	0.4s
			DH3		
Middle	1.764ms	400 h	400 hop/s		0.4s
DH5					
Middle	2.986ms	266.667	7 hop/s	0.319s	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.

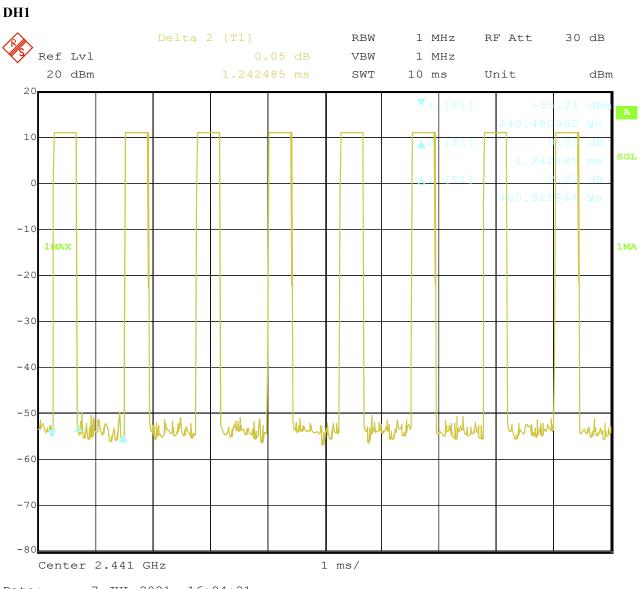
A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

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Test Plots:





Date:

7.JUL.2021 16:04:21

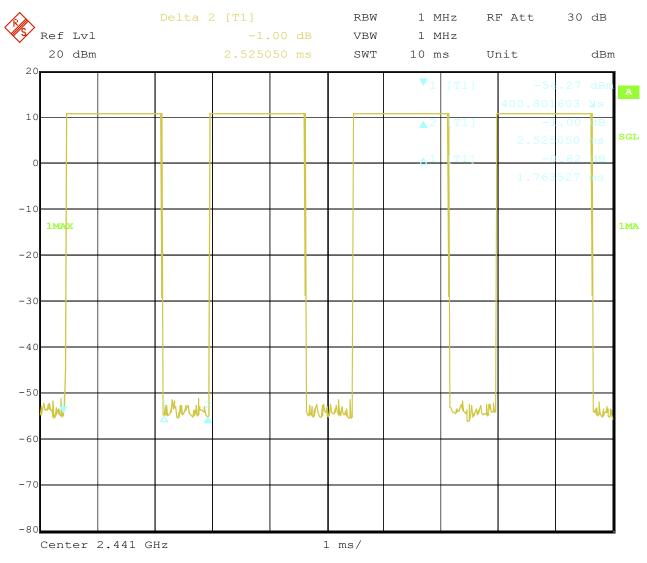
The report refers only to the sample tested and does not apply to the bulk.

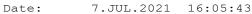
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Test Plots: DH3





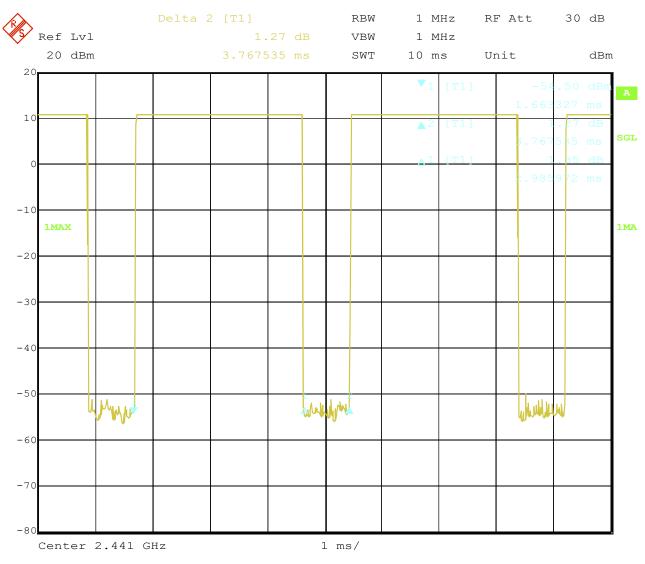
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Test Plots: **DH5**



Date: 7.JUL.2021 16:06:55

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Test Result Type of Modulation: *Π*/4D-QPSK

EUT	Bluetooth	Bluetooth transmitter		E	3TH01		
Mode	Keep Tr	Keep Transmitting		120V~			
Temperatur	re 24 c	leg. C,	Humidity	50	5% RH		
Channel	Reading	Hoping	Hoping Rate		Limit		
			DH1				
Middle	0.501ms	800 ł	nop/s	0.160s	0.4s		
			DH3				
Middle	1.723ms	400 h	400 hop/s		0.4s		
DH5							
Middle	2.986ms	266.667	7 hop/s	0.319s	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.

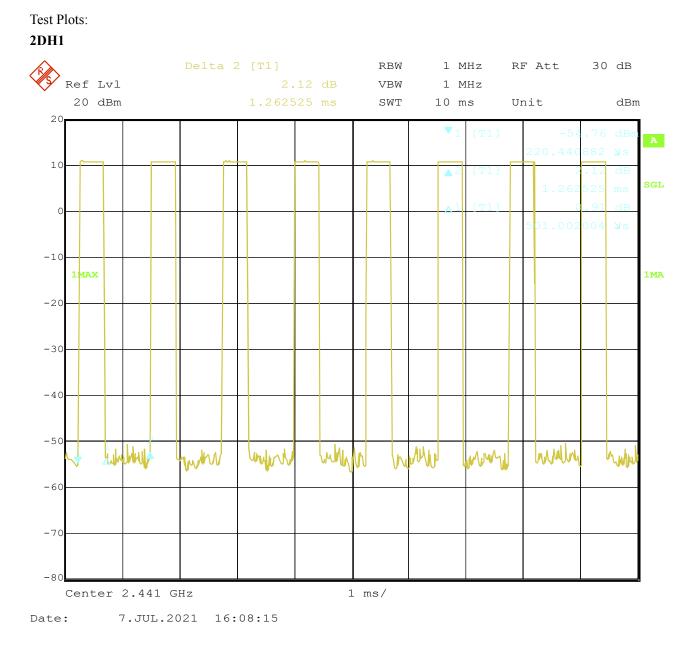
A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

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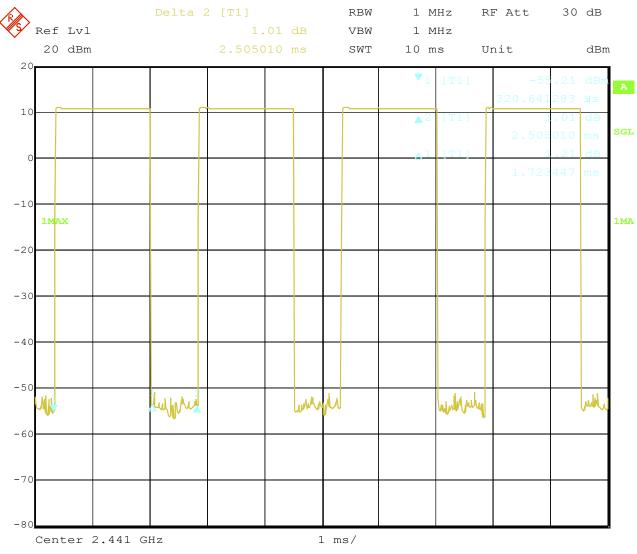
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Test Plots: **2DH3**



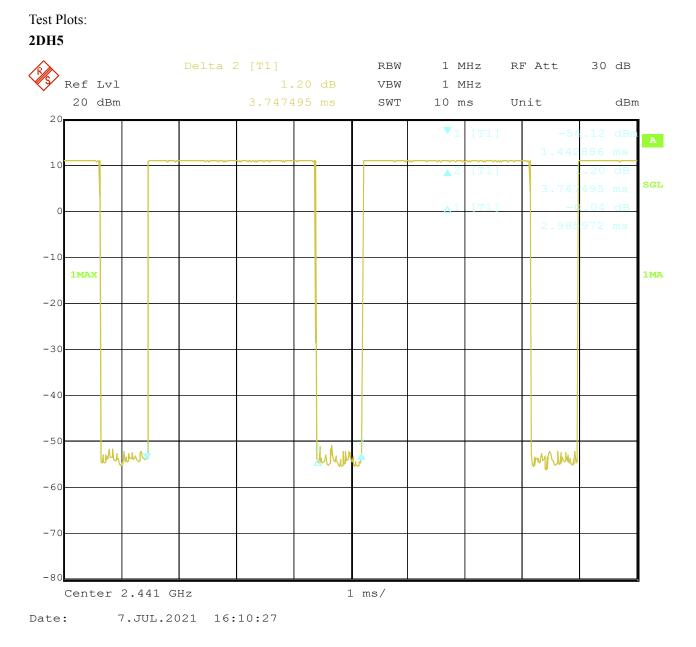


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Type of Modulation: 8DPSK

EUT	Bluetooth	Bluetooth transmitter]	BTH01		
Mode	Keep Tr	Keep Transmitting			120V~		
Temperatur	re 24 c	leg. C,	Humidity	5	56% RH		
Channel	Reading	Hoping	Hoping Rate		Limit		
	DH1						
Middle	0.501ms	800 ł	nop/s	0.160s	0.4s		
			DH3				
Middle	1.743ms	400 ł	400 hop/s		0.4s		
DH5							
Middle	3.006ms	266.66	7 hop/s	0.321s	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.

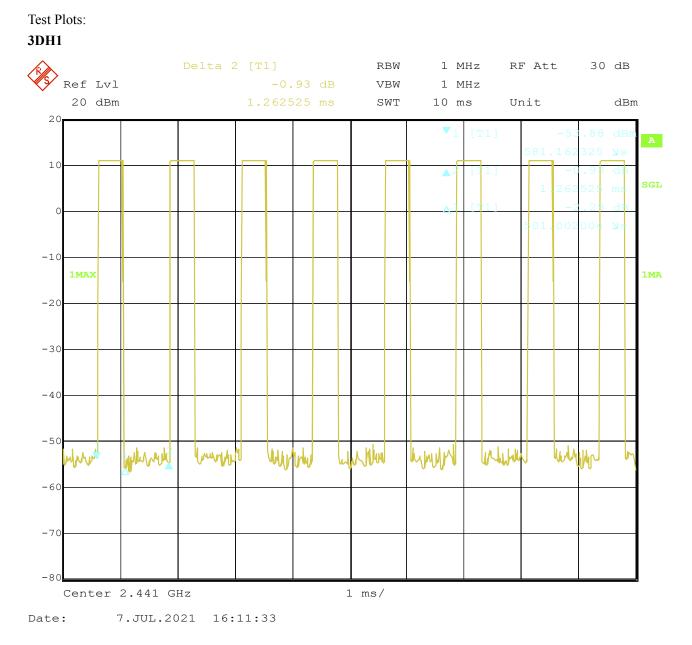
A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

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

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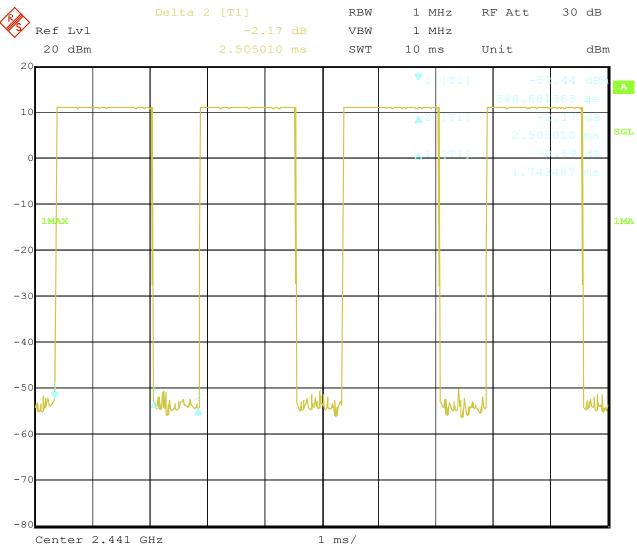
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Test Plots: 3DH3



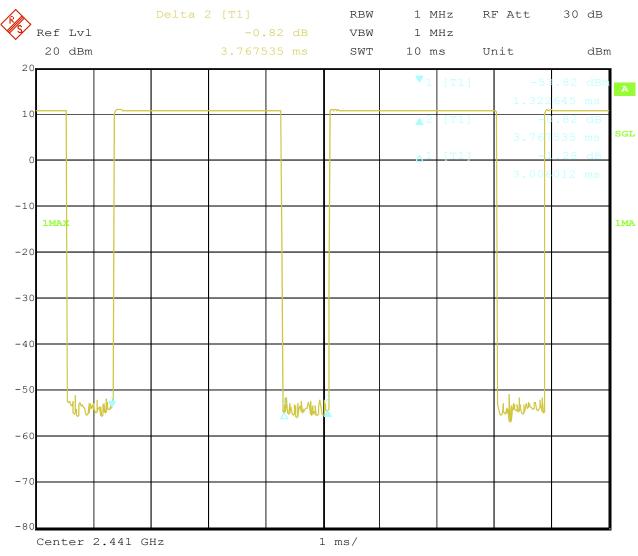
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Test Plots: **3DH5**





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