

EUT	Bluetooth True Wireless Headset	Model Name	BTH182H
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK





RESULT: PASS

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EUT	Bluetooth True Wireless Headset	Model Name	BTH182H
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



ΡK

AV



RESULT: PASS

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EUT	Bluetooth True Wireless Headset	Model Name	BTH182H
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal
Pressure Test Mode	960hPa Mode 3	Test Voltage Antenna	Normal Voltage Horizontal



ΡK



RESULT: PASS

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0 H

EUT	Bluetooth True Wireless Headset	Model Name	BTH182H	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 3	Antenna	Vertical	



Avg Type: RMS Avg|Hold: 100/100 Frequenc a 2.487500000 GH Trig: Free Run Atten: 20 dB Auto Tun Ref 116.99 dBµV/m Center Free 2.487500000 GH Start Free 2.475000000 GH Stop Free 2.50000000 GH Start 2.47500 GHz #Res BW 1.0 MHz Stop 2.50000 GHz Sweep 1.000 ms (1001 pts) CF Ste 2.500000 MH #VBW 3.0 MHz* 2.480 000 GHz 94.565 dBµV. 2.483 500 GHz 31.242 dBµV. **Freq Offse**

RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. The GFSK modulation is the worst case and recorded in the report.

Compliances Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pent Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written without authorization of AGE g/Inspection he test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15d he test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.





11. NUMBER OF HOPPING FREQUENCY

11.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.

2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

3. VBW \geq RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.

4. Allow the trace to stabilize.

11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

11.4. LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF HOPPING CHANNEL	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
	>=15	79	PASS



TEST PLOT FOR NO. OF TOTAL CHANNELS

Note: The GFSK modulation is the worst case and recorded in the report.

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12. TIME OF OCCUPANCY (DWELL TIME)

12.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Zero span, centered on a hopping channel.

2. RBW shall be \leq channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.

3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.

4. Detector function: Peak. Trace: Max hold.

5. Use the marker-delta function to determine the transmit time per hop.

6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) \times (period specified in the requirements / analyzer sweep time)

7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)
Low	2.887	33*4	381.084	400
Middle	2.887	28*4	323.344	400
High	2.887	27*4	311.796	400

Note: The GFSK modulation is the worst case and recorded in the report.

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TEST PLOT OF LOW CHANNEL

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TEST PLOT OF MIDDLE CHANNEL

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TEST PLOT OF HIGH CHANNEL

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13. FREQUENCY SEPARATION

13.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Wide enough to capture the peaks of two adjacent channels.

2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

3. Video (or average) bandwidth (VBW) \geq RBW.

4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

13.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT
	MHz	MHz	
CH38-CH39	1.005	2/3* 20 dB BW	Pass

09:29:27 AM Nov 09, 2020 Marker Marker 1 2.440013013013 GHz Avg Type: Log-Pv Avg|Hold: 100/100 Trig: Free Run Atten: 30 dB PNO: Wide IFGain:Lov Select Marker Mkr1 2.440 013 3.724 dBm Ref 20.00 dBm Normal Delta **Fixed** Center 2.441000 GHz #Res BW 30 kHz Span 4.000 MHz Sweep 4.262 ms (1000 pts) #VBW 100 kHz Off 2.440 013 GHz 2.441 018 GHz 3.724 dBm 3.053 dBm **Properties** More 1 of 2

TEST PLOT FOR FREQUENCY SEPARATION

Note: The GFSK modulation is the worst case and recorded in the report.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP ABOVE 1GHz



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CONDUCTED TEST SETUP

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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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30 202 01 09 09 OI SO 30 07 00 01 08 0.9 09 5.0 3,0 0.7

RIGHT VIEW OF EUT

Left VIEW OF EUT(PORT)



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OPEN VIEW OF EUT



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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



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OPEN VIEW OF EUT



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