



| EUT | Noise cancelling Bluetooth earphones | Model Name | BTA100 |
|-------------|--------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 9 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4960.000 | 46.45 | 0.22 | 46.67 | 74 | -27.33 | peak |
| 4960.000 | 38.62 | 0.22 | 38.84 | 54 | -15.16 | AVG |
| 7440.000 | 41.58 | 2.64 | 44.22 | 74 | -29.78 | peak |
| 7440.000 | 32.49 | 2.64 | 35.13 | 54 | -18.87 | AVG |
| | | | | | | |
| emark: | | | | | | |

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| Test Mode | Mode 9 | Antenna | Vertical |

| (-ID) A | | | | Margin | Value Tree |
|---------|-------------------------|--------------------------------------|--------------------------------------|---|--|
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | - Value Type |
| 46.47 | 0.22 | 46.69 | 74 | -27.31 | peak |
| 38.36 | 0.22 | 38.58 | 54 | -15.42 | AVG |
| 40.49 | 2.64 | 43.13 | 74 | -30.87 | peak |
| 31.51 | 2.64 | 34.15 | 54 | -19.85 | AVG |
| | | | | | |
| | 38.36 40.49 31.51 | 38.36 0.22 40.49 2.64 31.51 2.64 | 38.36 0.22 38.58 40.49 2.64 43.13 | 38.36 0.22 38.58 54 40.49 2.64 43.13 74 31.51 2.64 34.15 54 | 38.36 0.22 38.58 54 -15.42 40.49 2.64 43.13 74 -30.87 31.51 2.64 34.15 54 -19.85 |

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Level-Limit.

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

All test modes had been tested. The 8DPSK modulation is the worst case and recorded in the report.



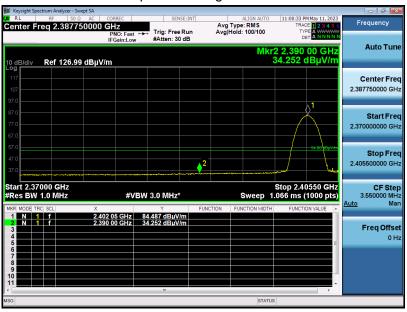
Test result for band edge emission at restricted bands

| EUT | Noise cancelling Bluetooth earphones | Model Name | BTA100 |
|-------------|--------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 7 | Antenna | Horizontal |

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS



| EUT | Noise cancelling Bluetooth earphones | Model Name | BTA100 |
|-------------|--------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 7 | Antenna | Vertical |

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

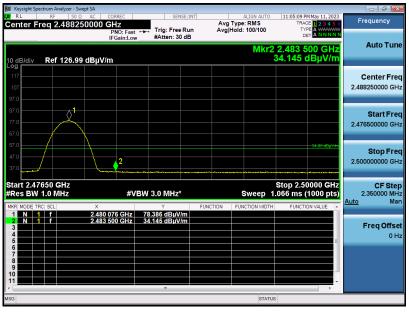


| EUT | Noise cancelling Bluetooth earphones | Model Name | BTA100 |
|-------------|--------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 9 | Antenna | Horizontal |

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS



| EUT | Noise cancelling Bluetooth earphones | Model Name | BTA100 |
|-------------|--------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 9 | Antenna | Vertical |

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. The 8DPSK modulation is the worst case and recorded in the report.



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 > 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

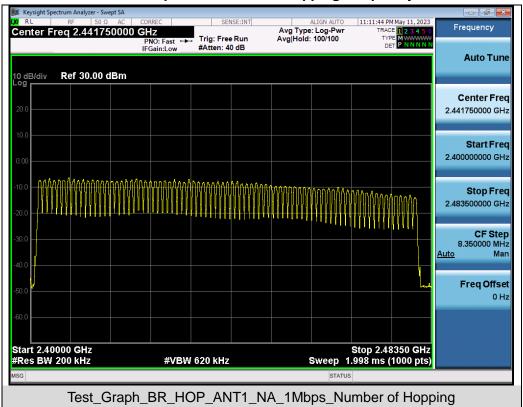
11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

11.4. LIMITS AND MEASUREMENT RESULT

| Test Data of Number of Hopping Frequency | | | | | |
|---|--|--|--|--|--|
| Test Mode Number of Hopping Frequency Limits Pass or Fail | | | | | |
| GFSK Hopping 79 >=15 Pass | | | | | |

Test Graphs of Number of Hopping Frequency



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 ≤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

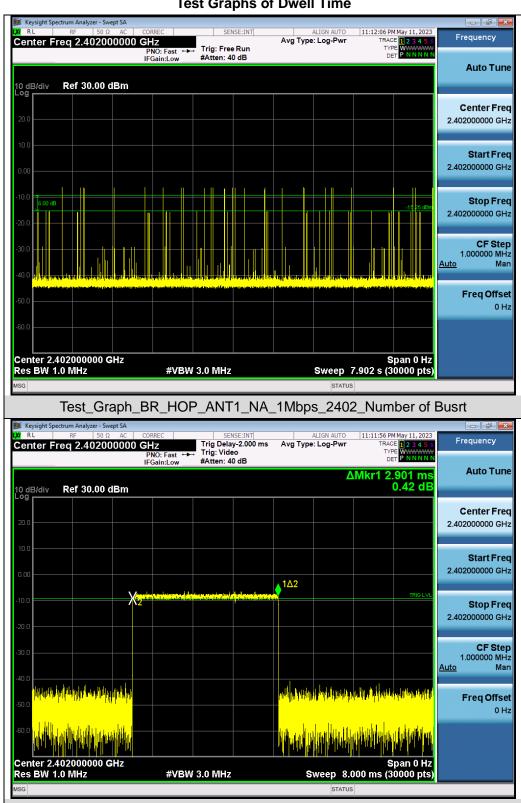
12.4. LIMITS AND MEASUREMENT RESULT

| Test Data of Dwell Time | | | | | | |
|-------------------------|----------------------------------|--|-----------------|---------------|--------------|--|
| Channel | Time of Pulse for DH5 (ms) | Number of hops in the period specified in the requirements | Sweep Time (ms) | Limit (ms) | Pass or Fail | |
| 2402 | 2.901 | 26.0*4 | 301.704 | 400 | Pass | |
| 2441 | 2.901 | 27.0*4 | 313.308 | 400 | Pass | |
| 2480 | 2.901 | 26.0*4 | 301.704 | 400 | Pass | |

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



Test Graphs of Dwell Time

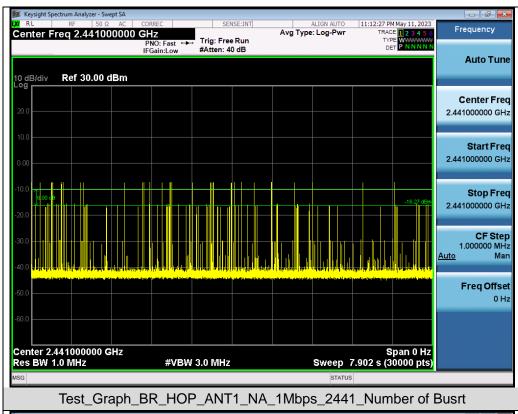


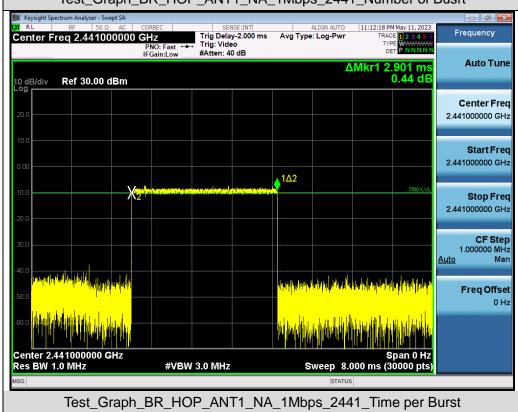
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Test_Graph_BR_HOP_ANT1_NA_1Mbps_2402_Time per Burst

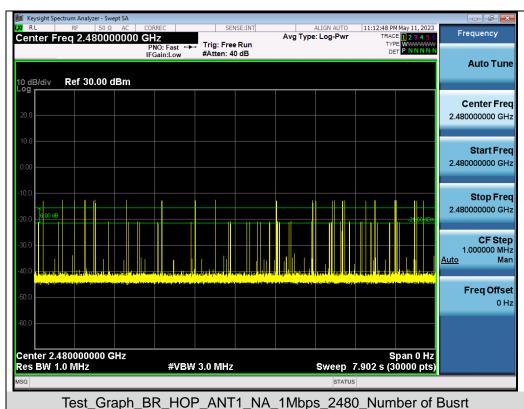
Web: http://www.agccert.com/

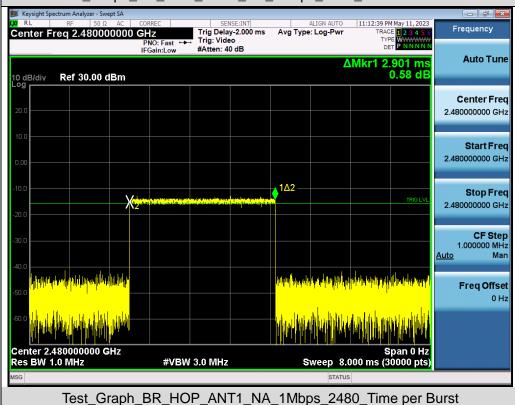












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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



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) ≥ 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

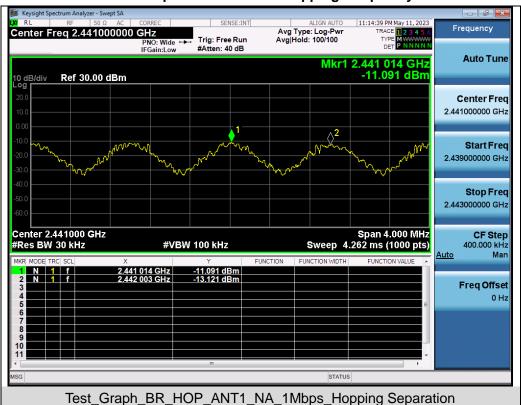
13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

13.4. LIMITS AND MEASUREMENT RESULT

| Test Data of Frequency Separation | | | | | |
|--|--|--|--|--|--|
| Test Mode Channel Separation (MHz) Limits Pass or Fail | | | | | |
| GFSK Hopping 0.989 >= 2/3 -20dB BW Pass | | | | | |

Test Graphs of Number of Hopping Frequency



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



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC08189230501AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC08189230501AP02

----END OF REPORT----



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- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
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- 5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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- 8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.