

|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                    |                                                                                            |                                                                                       |                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------|
| <b>Prüfbericht-Nr.:</b><br><i>Test report no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                         | <b>CN216SM9 001</b>                                                                                                                                                | <b>Auftrags-Nr.:</b><br><i>Order no.:</i>                                                  | 168343239                                                                             | Seite 1 von 19<br><i>Page 1 of 19</i> |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client reference no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                | N/A                                                                                                                                                                | <b>Auftragsdatum:</b><br><i>Order date:</i>                                                | 2021-11-11                                                                            |                                       |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Country Mate Technology Ltd</b><br>5/F., Block E, Hing Yip Centre 31 Hing Yip St., Kwun Tong, Kln., H.K. Hong Kong                                              |                                                                                            |                                                                                       |                                       |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>                                                                                                                                                                                                                                                                                                                                                                                                                | 2.4GHz Digital Wireless Headphone                                                                                                                                  |                                                                                            |                                                                                       |                                       |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type no.:</i>                                                                                                                                                                                                                                                                                                                                                                                         | NS-HAWHP2, NS-HAWHP2-C                                                                                                                                             |                                                                                            |                                                                                       |                                       |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>                                                                                                                                                                                                                                                                                                                                                                                                           | FCC approval                                                                                                                                                       |                                                                                            |                                                                                       |                                       |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                                                                                                                                                                                                                        | CFR47 FCC Part 15: Subpart C Section 15.247<br>CFR47 FCC Part 15: Subpart C Section 15.207<br>CFR47 FCC Part 15: Subpart C Section 15.209<br>CFR47 FCC Part 2.1093 |                                                                                            |                                                                                       |                                       |
| <b>Wareneingangsdatum:</b><br><i>Date of sample receipt:</i>                                                                                                                                                                                                                                                                                                                                                                                               | 2021-11-11                                                                                                                                                         | Please refer to photo documents                                                            |                                                                                       |                                       |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                          | A003163351-001 to 004                                                                                                                                              |                                                                                            |                                                                                       |                                       |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>                                                                                                                                                                                                                                                                                                                                                                                                             | 2021-11-19 – 2021-12-07                                                                                                                                            |                                                                                            |                                                                                       |                                       |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>                                                                                                                                                                                                                                                                                                                                                                                                        | TÜV Rheinland (Shenzhen) Co., Ltd.                                                                                                                                 |                                                                                            |                                                                                       |                                       |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>                                                                                                                                                                                                                                                                                                                                                                                                     | TÜV Rheinland (Shenzhen) Co., Ltd.                                                                                                                                 |                                                                                            |                                                                                       |                                       |
| <b>Prüfergebnis*:</b><br><i>Test result*:</i>                                                                                                                                                                                                                                                                                                                                                                                                              | Pass                                                                                                                                                               |                                                                                            |                                                                                       |                                       |
| <b>geprüft von:</b><br><i>tested by:</i>                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>genehmigt von:</b><br><i>authorized by:</i>                                                                                                                     |                                                                                            |                                                                                       |                                       |
| <b>Datum:</b><br><i>Date:</i> 2021-12-15                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                 |                                                                                            |  |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Signed by: Alex Lan                                                                                                                                                |                                                                                            | Signed by: Winnie Hou                                                                 |                                       |
| <b>Stellung / Position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 | Senior Project Engineer                                                                                                                                            | <b>Ausstellungsdatum:</b><br><i>Issue date:</i> 2021-12-16                                 |                                                                                       |                                       |
| <b>Stellung / Position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                    | Department Manager                                                                         |                                                                                       |                                       |
| <b>Sonstiges / Other:</b><br><br>FCC ID: MV3-NSHAWHP2                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                    |                                                                                            |                                                                                       |                                       |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br><i>Condition of the test item at delivery:</i>                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                    | <b>Prüfmuster vollständig und unbeschädigt</b><br><i>Test item complete and undamaged:</i> |                                                                                       |                                       |
| * Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft<br>P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n)<br>Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor<br>P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested                                                                   |                                                                                                                                                                    |                                                                                            |                                                                                       |                                       |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br><i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i> |                                                                                                                                                                    |                                                                                            |                                                                                       |                                       |

## ***Test Summary***

**5.1.1 ANTENNA REQUIREMENT**

*RESULT: Pass*

**5.1.2 MAXIMUM CONDUCTED OUTPUT POWER**

*RESULT: Pass*

**5.1.3 CONDUCTED POWER SPECTRAL DENSITY**

*RESULT: Pass*

**5.1.5 6dB BANDWIDTH**

*RESULT: Pass*

**5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH**

*RESULT: Pass*

**5.1.7 RADIATED SPURIOUS EMISSION**

*RESULT: Pass*

**6.1.1 ELECTROMAGNETIC FIELDS**

*RESULT: Pass*

## Contents

|              |                                                                         |           |
|--------------|-------------------------------------------------------------------------|-----------|
| <b>1</b>     | <b>GENERAL REMARKS .....</b>                                            | <b>4</b>  |
| <b>1.1</b>   | <b>COMPLEMENTARY MATERIALS .....</b>                                    | <b>4</b>  |
| <b>2</b>     | <b>TEST SITES.....</b>                                                  | <b>4</b>  |
| <b>2.1</b>   | <b>TEST FACILITIES.....</b>                                             | <b>4</b>  |
| <b>2.2</b>   | <b>LIST OF TEST AND MEASUREMENT INSTRUMENTS .....</b>                   | <b>5</b>  |
| <b>2.3</b>   | <b>TRACEABILITY.....</b>                                                | <b>6</b>  |
| <b>2.4</b>   | <b>CALIBRATION.....</b>                                                 | <b>6</b>  |
| <b>2.5</b>   | <b>MEASUREMENT UNCERTAINTY .....</b>                                    | <b>6</b>  |
| <b>2.6</b>   | <b>LOCATION OF ORIGINAL DATA .....</b>                                  | <b>6</b>  |
| <b>2.7</b>   | <b>STATUS OF FACILITY USED FOR TESTING.....</b>                         | <b>6</b>  |
| <b>3</b>     | <b>GENERAL PRODUCT INFORMATION.....</b>                                 | <b>7</b>  |
| <b>3.1</b>   | <b>PRODUCT FUNCTION AND INTENDED USE.....</b>                           | <b>7</b>  |
| <b>3.2</b>   | <b>RATINGS AND SYSTEM DETAILS .....</b>                                 | <b>7</b>  |
| <b>3.3</b>   | <b>INDEPENDENT OPERATION MODES .....</b>                                | <b>8</b>  |
| <b>3.4</b>   | <b>NOISE GENERATING AND NOISE SUPPRESSING PARTS.....</b>                | <b>8</b>  |
| <b>3.5</b>   | <b>SUBMITTED DOCUMENTS.....</b>                                         | <b>8</b>  |
| <b>4</b>     | <b>TEST SET-UP AND OPERATION MODES .....</b>                            | <b>9</b>  |
| <b>4.1</b>   | <b>PRINCIPLE OF CONFIGURATION SELECTION.....</b>                        | <b>9</b>  |
| <b>4.2</b>   | <b>TEST OPERATION AND TEST SOFTWARE .....</b>                           | <b>9</b>  |
| <b>4.3</b>   | <b>SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT.....</b>                 | <b>9</b>  |
| <b>4.4</b>   | <b>COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....</b>                   | <b>9</b>  |
| <b>4.5</b>   | <b>TEST SETUP DIAGRAM .....</b>                                         | <b>10</b> |
| <b>5</b>     | <b>TEST RESULTS.....</b>                                                | <b>12</b> |
| <b>5.1</b>   | <b>TRANSMITTER REQUIREMENT &amp; TEST SUITES.....</b>                   | <b>12</b> |
| <b>5.1.1</b> | <i>Antenna Requirement.....</i>                                         | <i>12</i> |
| <b>5.1.2</b> | <i>Maximum Conducted Output Power .....</i>                             | <i>13</i> |
| <b>5.1.3</b> | <i>Conducted Power Spectral Density.....</i>                            | <i>14</i> |
| <b>5.1.5</b> | <i>6dB Bandwidth.....</i>                                               | <i>15</i> |
| <b>5.1.6</b> | <i>Conducted Spurious Emissions Measured in 100 kHz Bandwidth .....</i> | <i>16</i> |
| <b>5.1.7</b> | <i>Radiated Spurious Emission.....</i>                                  | <i>17</i> |
| <b>6</b>     | <b>SAFETY HUMAN EXPOSURE .....</b>                                      | <b>18</b> |
| <b>6.1</b>   | <b>RADIO FREQUENCY EXPOSURE COMPLIANCE .....</b>                        | <b>18</b> |
| <b>6.1.1</b> | <i>Electromagnetic Fields .....</i>                                     | <i>18</i> |
| <b>7</b>     | <b>PHOTOGRAPHS OF THE TEST SET-UP.....</b>                              | <b>19</b> |
| <b>8</b>     | <b>LIST OF TABLES .....</b>                                             | <b>19</b> |

# 1 General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results of Conducted & Radiated Testing

# 2 Test Sites

## 2.1 Test Facilities

**TÜV Rheinland (Shenzhen) Co., Ltd.**

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China

FCC Registration No.: 694916

IC Registration No.: 25069, CAB identifier: CN0078

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

| <b>Radio Spectrum Testing</b>                  |                     |                   |                   |                   |
|------------------------------------------------|---------------------|-------------------|-------------------|-------------------|
| <b>Equipment</b>                               | <b>Manufacturer</b> | <b>Model No.</b>  | <b>Serial No.</b> | <b>Cal. Until</b> |
| EXA Signal Analyzer, Multi-touch               | Keysight            | N9010B            | MY60241175        | 28.09.2022        |
| MXG X-Series RF Vector Signal Generator        | Keysight            | N5182B            | MY61250137        | 28.09.2022        |
| EXG X-Series Microwave Analog Signal Generator | Keysight            | N5173B            | MY61250141        | 28.09.2022        |
| Power Control Unit                             | Tonscend            | JS0806-4ADC       | N/A               | 28.09.2022        |
| Automation Control Unit                        | Tonscend            | JS0806-2          | 21C8060396        | 28.09.2022        |
| Test Software                                  | Tonscend            | JS1120-3          | N/A               | N/A               |
| Control PC                                     | Lenovo              | TianYi510S-071MB  | YLX23JMF          | N/A               |
| <b>Unwanted Emission Testing</b>               |                     |                   |                   |                   |
| <b>Equipment</b>                               | <b>Manufacturer</b> | <b>Model No.</b>  | <b>Serial No.</b> | <b>Cal. Until</b> |
| EMI Test Receiver                              | R&S                 | ESR 7             | 102021            | 10.08.2022        |
| Signal Analyzer                                | R&S                 | FSV 40            | 101439            | 09.08.2022        |
| System Controller Interface                    | R&S                 | SCI-100           | S10010038         | N/A               |
| Filterbank                                     | R&S                 | Wlan              | 100759            | 09.08.2022        |
| OSP                                            | R&S                 | OSP 120           | 102040            | N/A               |
| Pre-amplifier                                  | R&S                 | SCU08F1           | 08320031          | 09.08.2022        |
| Amplifier                                      | R&S                 | SCU-18F           | 180070            | 09.08.2022        |
| Amplifier                                      | R&S                 | SCU40A            | 100475            | 09.08.2022        |
| Trilog Broadband Antenna (30 MHz - 7 GHz)      | Schwarzbeck         | VULB 9162         | 193               | 08.08.2022        |
| Double-Ridged Antenna (1 -18 GHz)              | ETS-LINDGREN        | 3117              | 00218717          | 08.08.2022        |
| Wideband Ridged Horn Antenna (18-40 GHz)       | Steatite            | QMS-00880         | 19067             | 08.08.2022        |
| Active Loop Antenna                            | Schwarzbeck         | FMZB 1513         | 302               | 13.09.2022        |
| Test software                                  | R&S                 | EMC32 (V10.60.10) | N/A               | N/A               |
| Control PC                                     | Dell                | OptiPlex 7050     | 36NV9P2           | N/A               |
| 3m Semi-Anechoic Chamber                       | Albatross           | SAC-3m            | APC17151-SAC      | 22.06.2024        |

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

| Item                              |                         | Extended Uncertainty |
|-----------------------------------|-------------------------|----------------------|
| Radiated Emission (30-1000MHz)    | Field strength (dBμV/m) | 4.27dB               |
| Radiated Emission (above 1000MHz) | Field strength (dBμV/m) | 4.46dB               |
| Radio Spectrum                    |                         | ± 1.5 dB             |

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

## 3 General Product Information

### 3.1 Product Function and Intended Use

The EUT is a Headphone of 2.4GHz Digital Wireless Headphone system, it supports 2.4GHz wireless technology.

All models are identical except the model number is different for different market purpose: model NS-HAWHP2 for US and NS-HAWHP2-C for Canada.

For details refer to the User Manual, Technical Description and Circuit Diagram.

### 3.2 Ratings and System Details

Table 2: Technical Specification of EUT

| General Information of EUT        | Value                                                                         |
|-----------------------------------|-------------------------------------------------------------------------------|
| Kind of Equipment                 | 2.4GHz Digital Wireless Headphone                                             |
| Type Designation                  | NS-HAWHP2, NS-HAWHP2-C                                                        |
| FCC ID                            | MV3-NSHAWHP2                                                                  |
| Operating Voltage                 | DC 3.7V, 220mAh via built-in battery or<br>DC 5V, 500mA via base for charging |
| Testing Voltage                   | DC 3.7V                                                                       |
| Technical Specification of 2.4GHz |                                                                               |
| Operating Frequency               | 2402-2480MHz for data rate 1Mbps<br>2404-2478MHz for data rate 2Mbps          |
| Data rate                         | 1Mbps, 2Mbps                                                                  |
| Channel Number                    | 40 channels for data rate 1Mbps<br>38 channels for data rate 2Mbps            |
| Channel separation                | 2MHz                                                                          |
| Modulation                        | GFSK                                                                          |
| Antenna Type                      | PCB Layout antenna                                                            |
| Smart Antenna Systems:            | Not Applicable                                                                |
| Number of Antenna                 | 1                                                                             |
| Antenna Gain                      | -0.5 dBi                                                                      |

**Table 3: RF Channel and Frequency**

| RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| <b>00</b>  | <b>2402.00</b>  | 10         | 2422.00         | 20         | 2442.00         | 30         | 2462.00         |
| 01         | 2404.00         | 11         | 2424.00         | 21         | 2444.00         | 31         | 2464.00         |
| 02         | 2406.00         | 12         | 2426.00         | 22         | 2446.00         | 32         | 2466.00         |
| 03         | 2408.00         | 13         | 2428.00         | 23         | 2448.00         | 33         | 2468.00         |
| 04         | 2410.00         | 14         | 2430.00         | 24         | 2450.00         | 34         | 2470.00         |
| 05         | 2412.00         | 15         | 2432.00         | 25         | 2452.00         | 35         | 2472.00         |
| 06         | 2414.00         | 16         | 2434.00         | 26         | 2454.00         | 36         | 2474.00         |
| 07         | 2416.00         | 17         | 2436.00         | 27         | 2456.00         | 37         | 2476.00         |
| 08         | 2418.00         | 18         | 2438.00         | 28         | 2458.00         | 38         | 2478.00         |
| 09         | 2420.00         | <b>19</b>  | <b>2440.00</b>  | 29         | 2460.00         | <b>39</b>  | <b>2480.00</b>  |

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, transmitting mode
  - 1. Low channel
  - 2. Middle channel
  - 3. High channel
- B. On, Operating
- C. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

### 3.5 Submitted Documents

- Application Form
- Block Diagram
- FCC/IC Label and Location Info
- Operation Description
- Photo Document
- Schematics
- User Manual

## 4 Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all test were applied on model NS-HAWHP2.

### 4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

| Description | Manufacturer | Model         | S/N |
|-------------|--------------|---------------|-----|
| Notebook    | Lenovo       | ThinkPad X260 | N/A |

### 4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

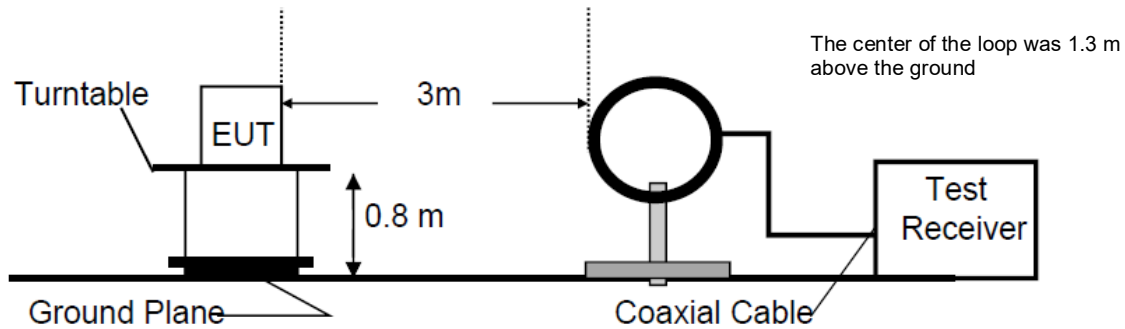


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

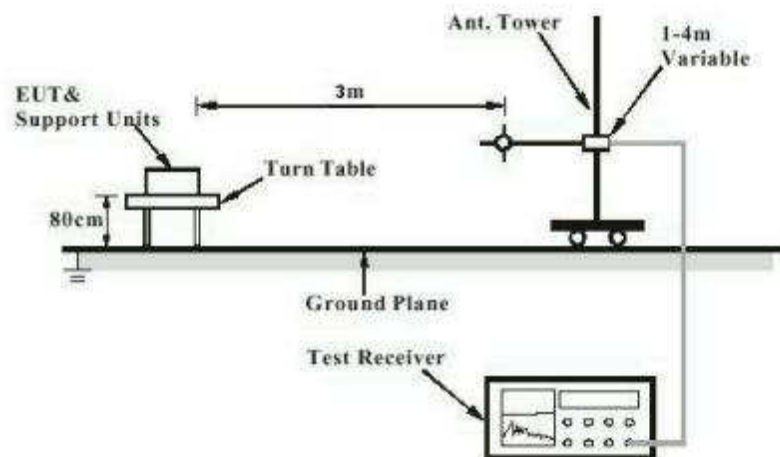
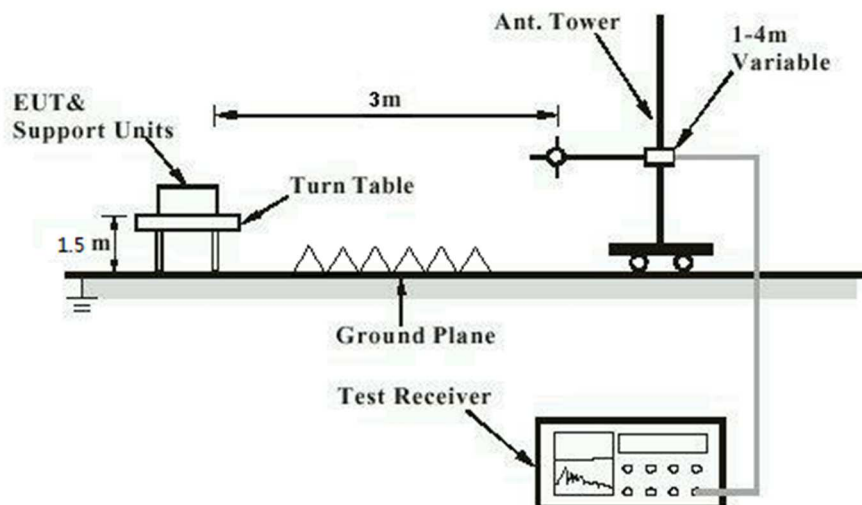
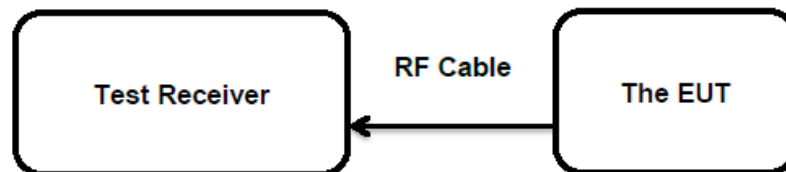


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



**Diagram of Measurement Configuration for Conducted Transmitter Measurement**



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

RESULT:

Pass

**Test Specification**

|               |   |                                                                     |
|---------------|---|---------------------------------------------------------------------|
| Test standard | : | FCC Part 15.247(b)(4) and Part 15.203                               |
| Limit         | : | the use of antennas with directional gains that do not exceed 6 dBi |

According to the manufacturer declared, the EUT has an ceramic chip antenna , the directional gain of antenna is -0.5 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

## 5.1.2 Maximum Conducted Output Power

**RESULT:****Pass****Test Specification**

|                   |                                           |
|-------------------|-------------------------------------------|
| Test standard     | : FCC Part 15.247(b)(3)                   |
| Basic standard    | : ANSI C63.10: 2013                       |
| Limits            | : < 1 Watt (Maximum Conducted Peak Power) |
| Kind of test site | : Shielded Room                           |

**Test Setup**

|                      |                       |
|----------------------|-----------------------|
| Date of testing      | : 2021-12-07          |
| Input voltage        | : DC 3.7V             |
| Operation mode       | : A                   |
| Test channel         | : Low / Middle / High |
| Ambient temperature  | : 24.8 °C             |
| Relative humidity    | : 53 %                |
| Atmospheric pressure | : 101 kPa             |

For details refer to following test result.

**Table 5: Test Result of Maximum Conducted Output Power**

| data rate | Channel Frequency (MHz) | Conducted Average Output Power (dBm) | Conducted Peak Output Power (dBm) | Limit (dBm) | Limit (W) |
|-----------|-------------------------|--------------------------------------|-----------------------------------|-------------|-----------|
| 1Mbps     | 2402                    | 9.13                                 | 9.64                              | 30          | 1         |
|           | 2440                    | 9.18                                 | 9.71                              | 30          | 1         |
|           | 2480                    | 9.13                                 | 9.65                              | 30          | 1         |
| 2Mbps     | 2404                    | 9.12                                 | 9.63                              | 30          | 1         |
|           | 2440                    | 9.15                                 | 9.68                              | 30          | 1         |
|           | 2478                    | 9.11                                 | 9.62                              | 30          | 1         |

### 5.1.3 Conducted Power Spectral Density

**RESULT:**
**Pass**
**Test Specification**

|                   |                      |
|-------------------|----------------------|
| Test standard     | : FCC Part 15.247(e) |
| Basic standard    | : ANSI C63.10: 2013  |
| Limits            | : 8 dBm / 3kHz       |
| Kind of test site | : Shielded Room      |

**Test Setup**

|                      |                       |
|----------------------|-----------------------|
| Date of testing      | : 2021-11-30          |
| Input voltage        | : DC 3.7V             |
| Operation mode       | : A                   |
| Test channel         | : Low / Middle / High |
| Ambient temperature  | : 24.8 °C             |
| Relative humidity    | : 53 %                |
| Atmospheric pressure | : 101 kPa             |

For details refer to following test result.

**Table 6: Test Result of Power Spectral Density, 1Mbps**

| Channel        | Channel Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) |
|----------------|-------------------------|-----------------------------------|------------------|
| Low Channel    | 2402                    | 3.71                              | 8                |
| Middle Channel | 2440                    | 4.93                              | 8                |
| High Channel   | 2480                    | 5.05                              | 8                |

**Table 7: Test Result of Power Spectral Density, 2Mbps**

| Channel        | Channel Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) |
|----------------|-------------------------|-----------------------------------|------------------|
| Low Channel    | 2402                    | 1.98                              | 8                |
| Middle Channel | 2440                    | 1.45                              | 8                |
| High Channel   | 2480                    | 2.27                              | 8                |

Note: The cable loss is taken into account in results.

For the measurement records, refer to the appendix B.

## 5.1.5 6dB Bandwidth

**RESULT:**
**Pass**
**Test Specification**

Test standard : FCC Part 15.247(a)(2)  
 : RSS-247 Clause 5.2(a)  
 Basic standard : ANSI C63.10: 2013  
 Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2021-11-30  
 Input voltage : DC 3.7V  
 Operation mode : A  
 Test channel : Low / Middle / High  
 Ambient temperature : 24.8 °C  
 Relative humidity : 53 %  
 Atmospheric pressure : 101 kPa

**Table 8: Test Result of 6dB Bandwidth, 1Mbps**

| Channel      | Channel Frequency (MHz) | -6dB Bandwidth (kHz) | Limit (kHz) | Result |
|--------------|-------------------------|----------------------|-------------|--------|
| Low Channel  | 2402                    | 656                  | 500         | Pass   |
| Mid Channel  | 2440                    | 708                  | 500         | Pass   |
| High Channel | 2480                    | 674                  | 500         | Pass   |

**Table 9: Test Result of 6dB Bandwidth, 2Mbps**

| Channel      | Channel Frequency (MHz) | -6dB Bandwidth (kHz) | Limit (kHz) | Result |
|--------------|-------------------------|----------------------|-------------|--------|
| Low Channel  | 2402                    | 1260                 | 500         | Pass   |
| Mid Channel  | 2440                    | 1380                 | 500         | Pass   |
| High Channel | 2480                    | 1292                 | 500         | Pass   |

For the measurement records, refer to the appendix B.

## 5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

**RESULT:****Pass****Test Specification**

|                   |                                                                                                                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test standard     | : FCC Part 15.247(d)<br>RSS-247 Clause 5.5                                                                                                                                                                                                                         |
| Basic standard    | : ANSI C63.10: 2013                                                                                                                                                                                                                                                |
| Limits            | : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);<br>In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a) |
| Kind of test site | : Shielded Room                                                                                                                                                                                                                                                    |

**Test Setup**

|                      |                       |
|----------------------|-----------------------|
| Date of testing      | : 2021-12-06          |
| Input voltage        | : DC 3.7V             |
| Operation mode       | : A                   |
| Test channel         | : Low / Middle / High |
| Ambient temperature  | : 24.8 °C             |
| Relative humidity    | : 53 %                |
| Atmospheric pressure | : 101 kPa             |

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix B.

## 5.1.7 Radiated Spurious Emission

**RESULT:****Pass****Test Specification**

|                   |   |                                                                       |
|-------------------|---|-----------------------------------------------------------------------|
| Test standard     | : | FCC Part 15.247(d) & FCC Part 15.205<br>RSS-247 Clause 3.3 & 5.5      |
| Basic standard    | : | ANSI C63.10: 2013                                                     |
| Limits            | : | Refer to 15.209(a) of FCC part 15.247(d)<br>RSS-Gen Table 4 & Table 5 |
| Kind of test site | : | 3m Semi-anechoic Chamber                                              |

**Test Setup**

|                      |   |                     |
|----------------------|---|---------------------|
| Date of testing      | : | 2021-11-22          |
| Input voltage        | : | DC 3.7V             |
| Operation mode       | : | A                   |
| Test channel         | : | Low / Middle / High |
| Ambient temperature  | : | 24 °C               |
| Relative humidity    | : | 50 %                |
| Atmospheric pressure | : | 101 kPa             |

**Remark:**

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

## 6 Safety Human Exposure

### 6.1 Radio Frequency Exposure Compliance

#### 6.1.1 Electromagnetic Fields

**RESULT:****Pass****Test Specification**

Test standard

: FCC KDB Publication 447498 v06

CFR47 FCC Part 2: Section 2.1093

CFR47 FCC Part 1: Section 1.1310

**FCC requirement:**

The measured maximum conducted output power of the EUT is 9.18dBm  $\approx$  8.28mW, which is far below the SAR exclusion threshold level 10mW (SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq$  50 mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v06.

## 7 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

## 8 List of Tables

|                                                             |    |
|-------------------------------------------------------------|----|
| Table 1: List of Test and Measurement Equipment.....        | 5  |
| Table 2: Technical Specification of EUT .....               | 7  |
| Table 3: RF Channel and Frequency .....                     | 8  |
| Table 4: List of Accessories and Auxiliary Equipment.....   | 9  |
| Table 5: Test Result of Maximum Conducted Output Power..... | 13 |
| Table 6: Test Result of Power Spectral Density, 1Mbps ..... | 14 |
| Table 7: Test Result of Power Spectral Density, 2Mbps ..... | 14 |
| Table 8: Test Result of 6dB Bandwidth, 1Mbps .....          | 15 |
| Table 9: Test Result of 6dB Bandwidth, 2Mbps .....          | 15 |

## Appendix B: Test Results

|                                                                                |    |
|--------------------------------------------------------------------------------|----|
| APPENDIX B: TEST RESULTS.....                                                  | 1  |
| APPENDIX B.1: CONDUCTED POWER SPECTRAL DENSITY .....                           | 2  |
| <i>Data Rate, 1Mbps</i> .....                                                  | 2  |
| <i>Data Rate, 2Mbps</i> .....                                                  | 3  |
| APPENDIX B.2: 6dB BANDWIDTH .....                                              | 5  |
| <i>Data Rate, 1Mbps</i> .....                                                  | 5  |
| <i>Data Rate, 2Mbps</i> .....                                                  | 6  |
| APPENDIX B.3: CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH ..... | 8  |
| <i>Data Rate, 1Mbps</i> .....                                                  | 8  |
| <i>Data Rate, 2Mbps</i> .....                                                  | 13 |
| APPENDIX B.4: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS .....                | 19 |
| <i>Data Rate, 1Mbps</i> .....                                                  | 19 |
| <i>Data Rate, 2Mbps</i> .....                                                  | 35 |
| APPENDIX B.5: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS.....      | 51 |
| <i>Data Rate, 1Mbps</i> .....                                                  | 51 |
| <i>Data Rate, 2Mbps</i> .....                                                  | 55 |

## Appendix B.1: Conducted Power Spectral Density

Data Rate, 1Mbps

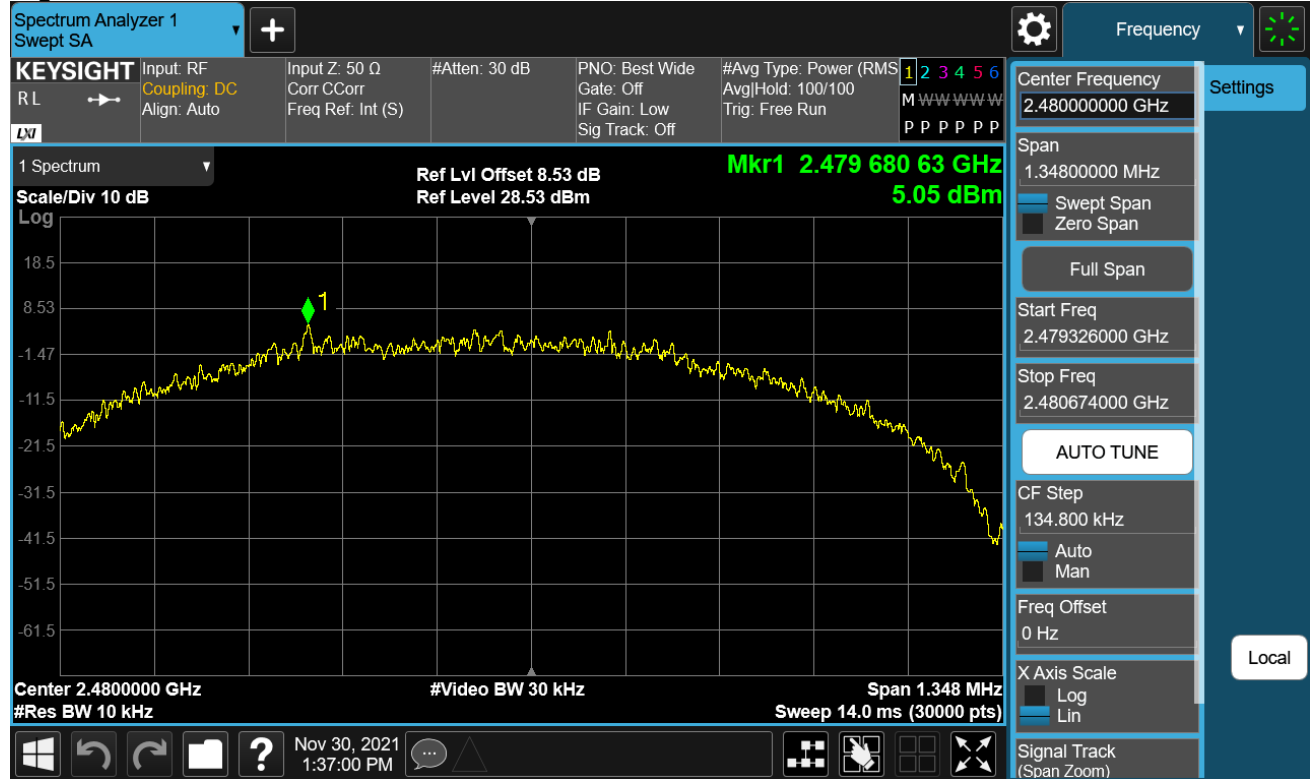
## Low Channel



## Middle Channel

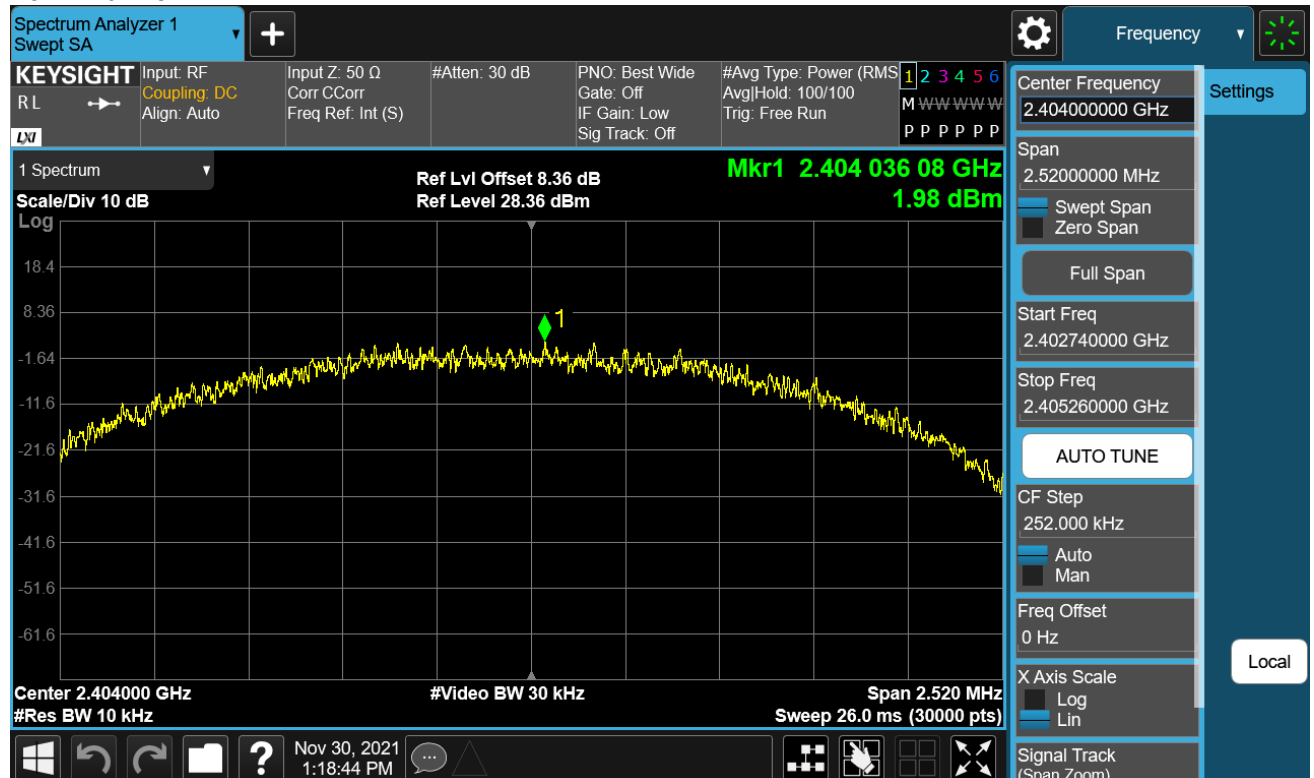


## High Channel

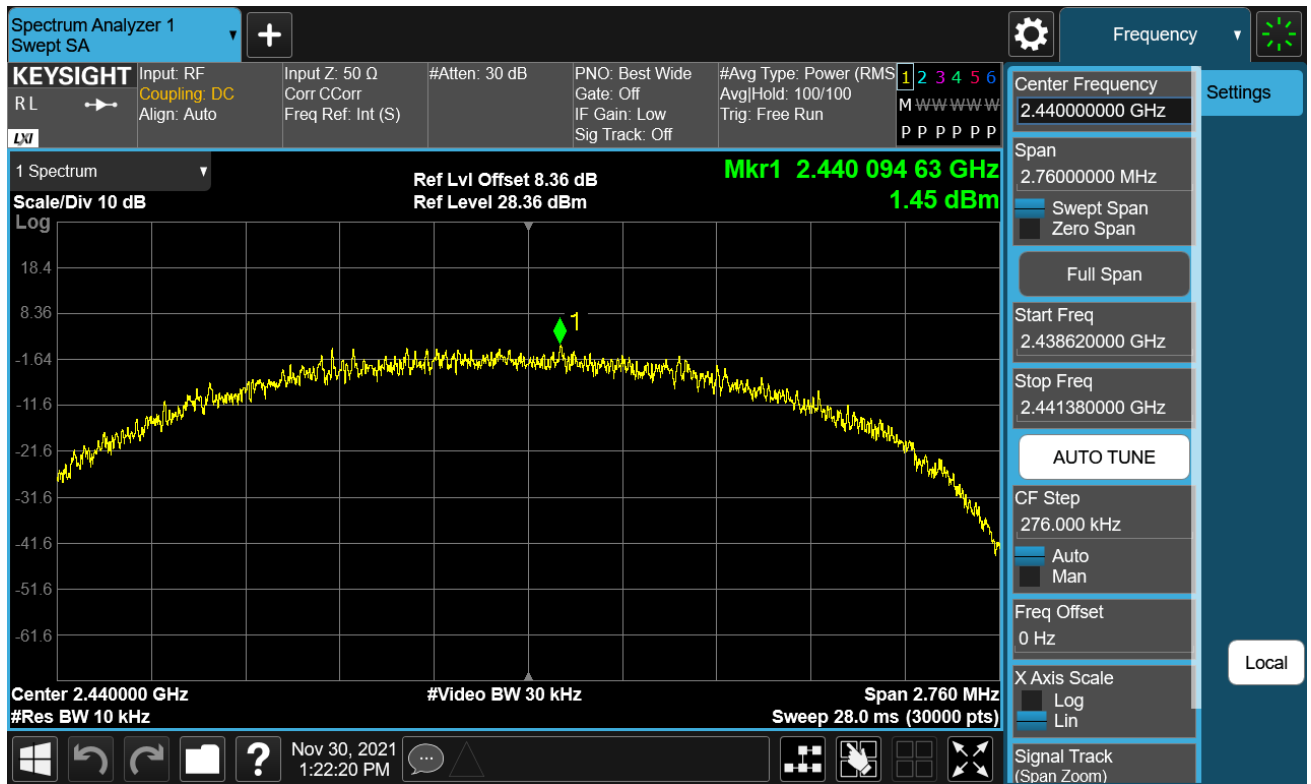


## Data Rate, 2Mbps

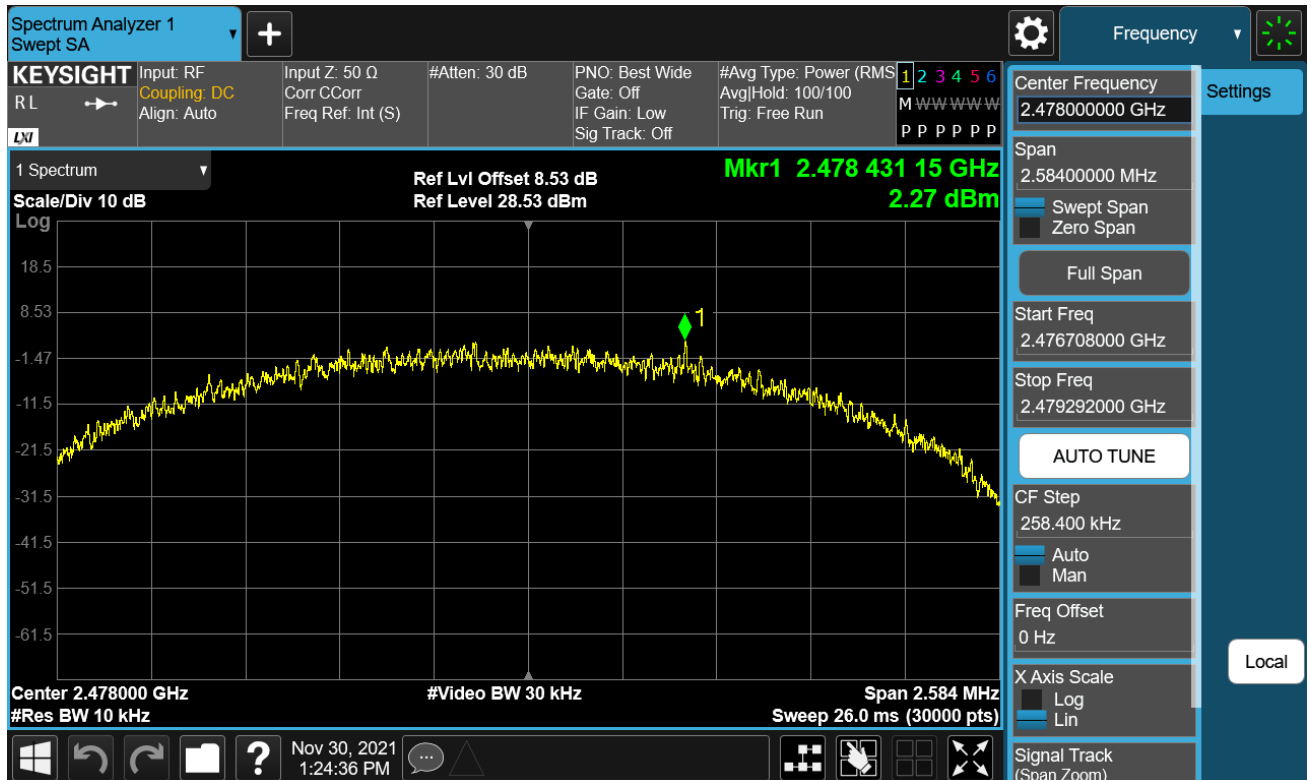
## Low Channel



## Middle Channel



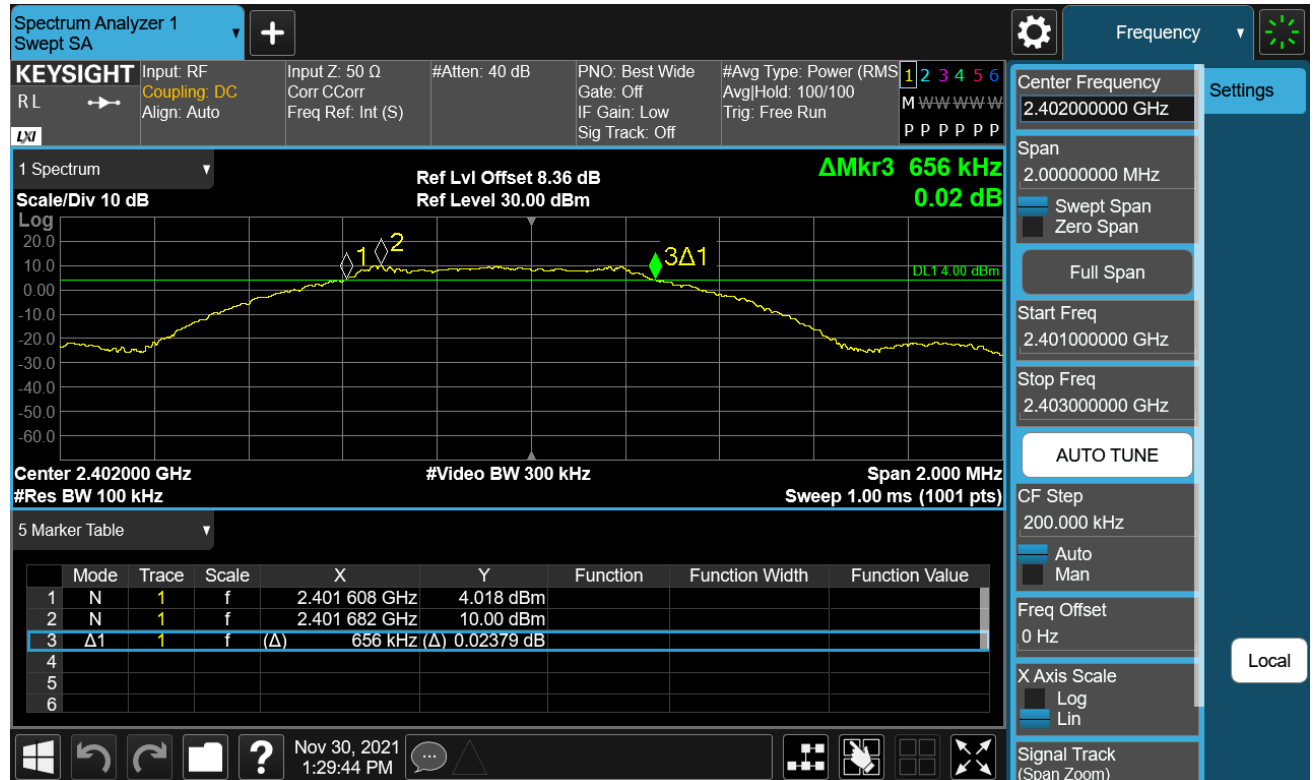
## High Channel



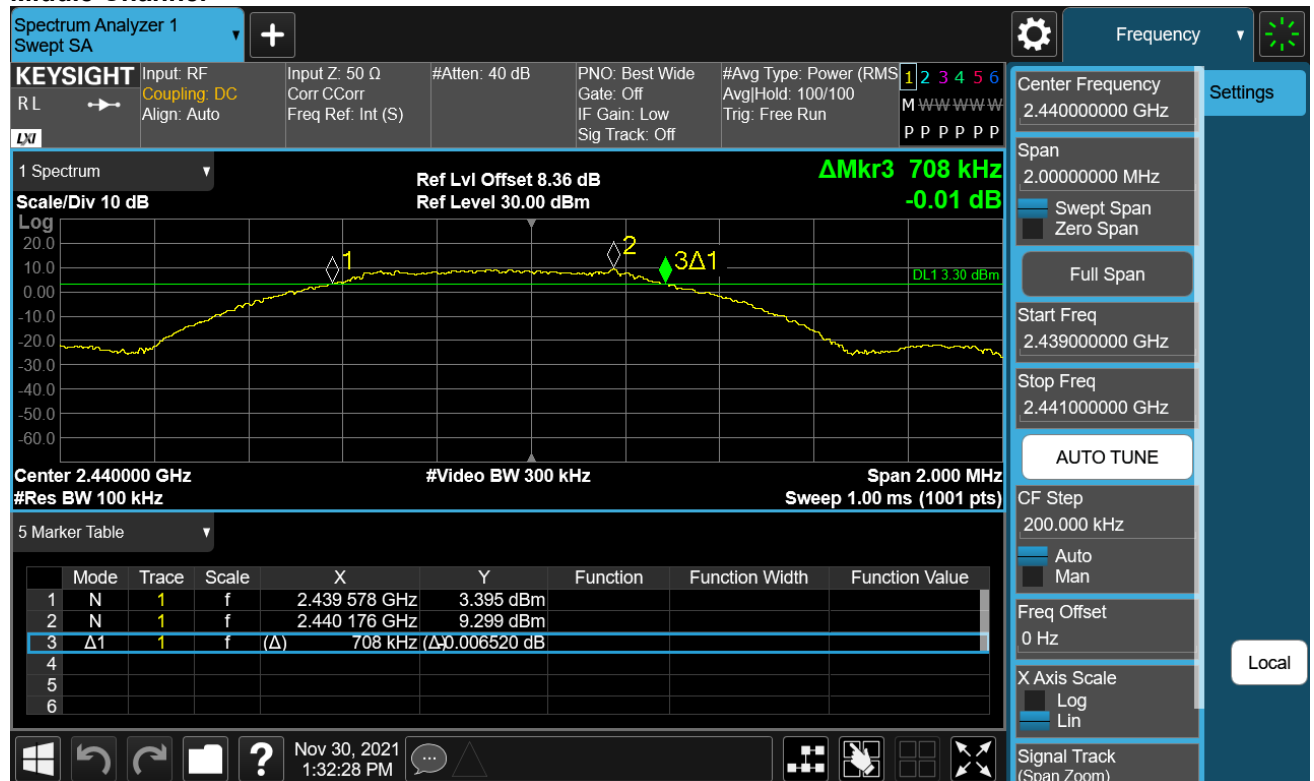
## Appendix B.2: 6dB Bandwidth

Data Rate, 1Mbps

### Low Channel



### Middle Channel



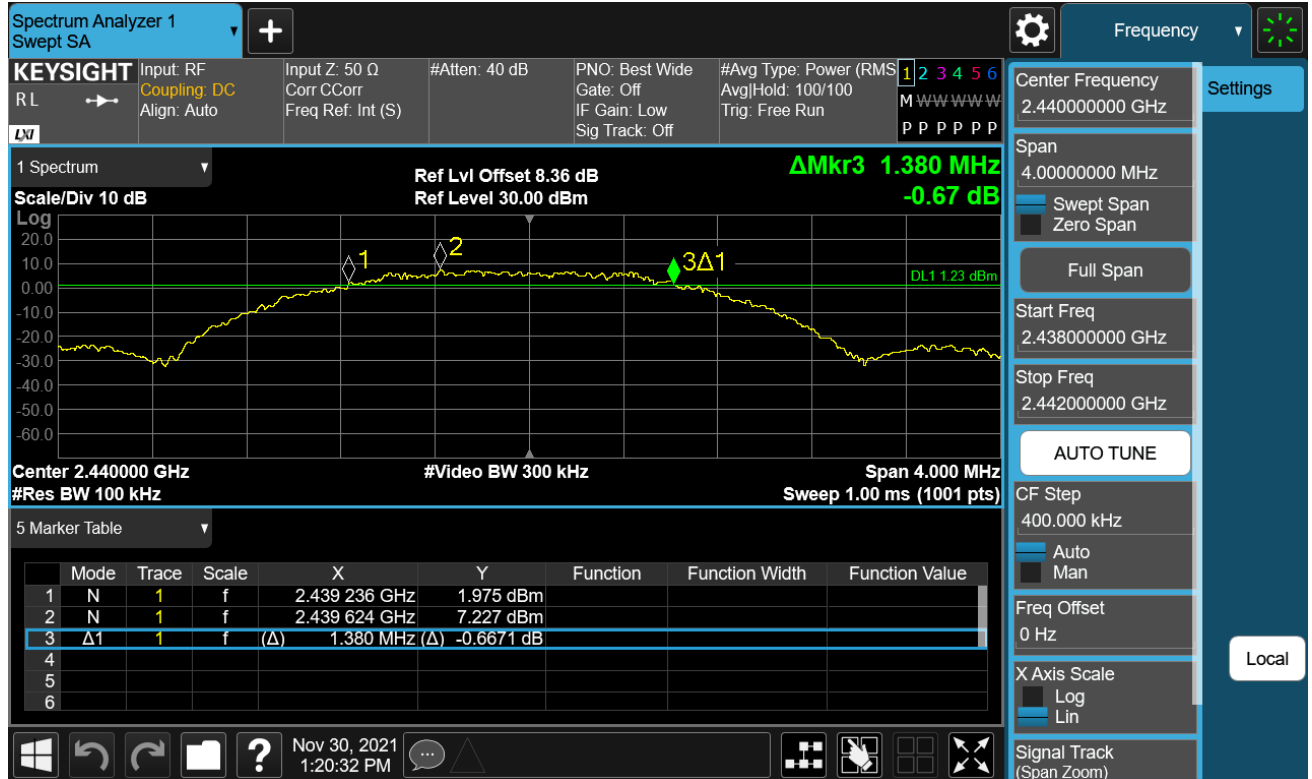
## High Channel



## Data Rate, 2Mbps

## Low Channel

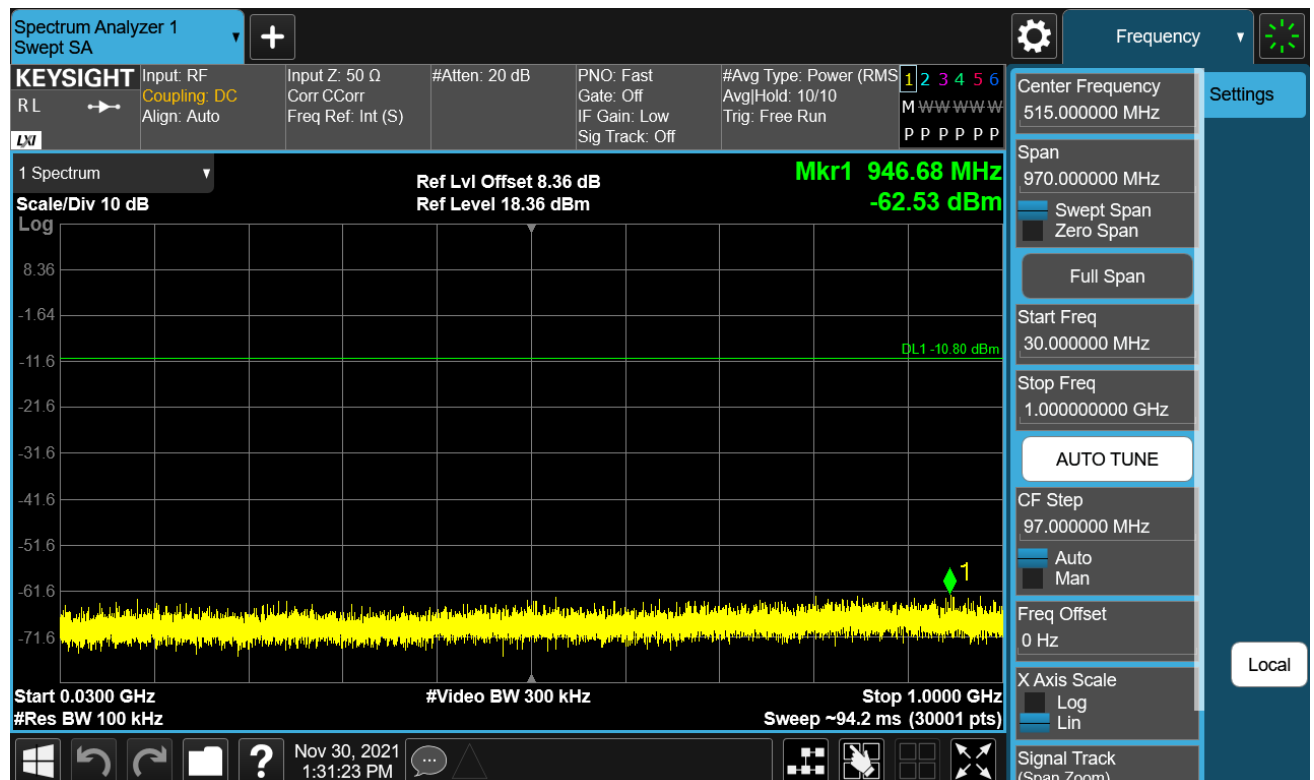


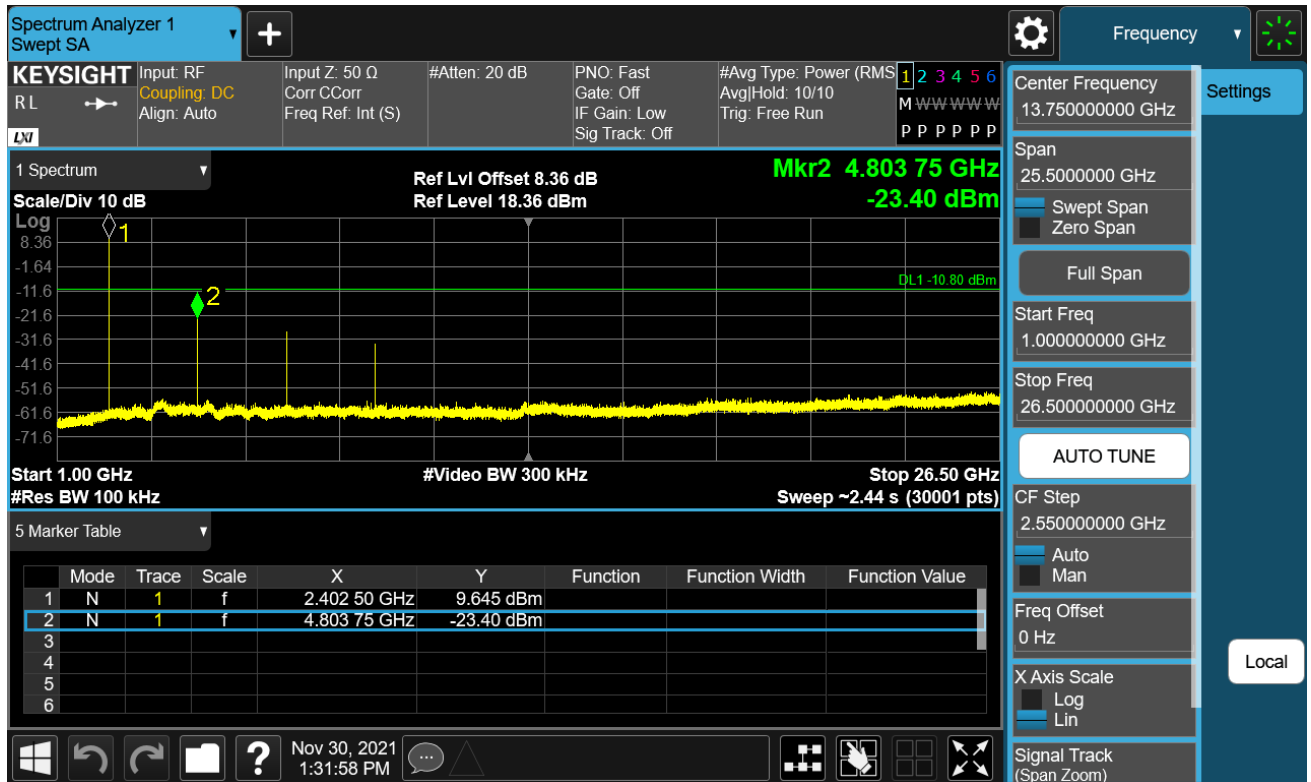
**Middle Channel****High Channel**

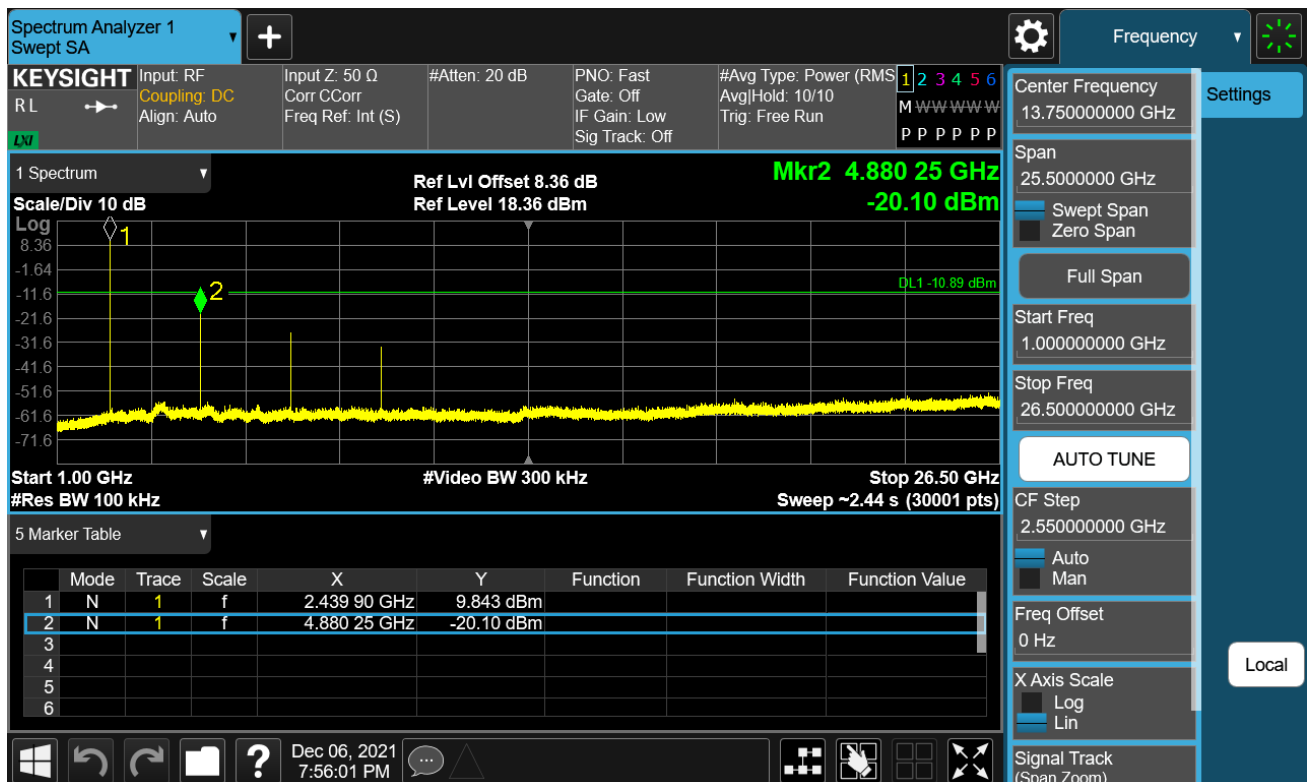
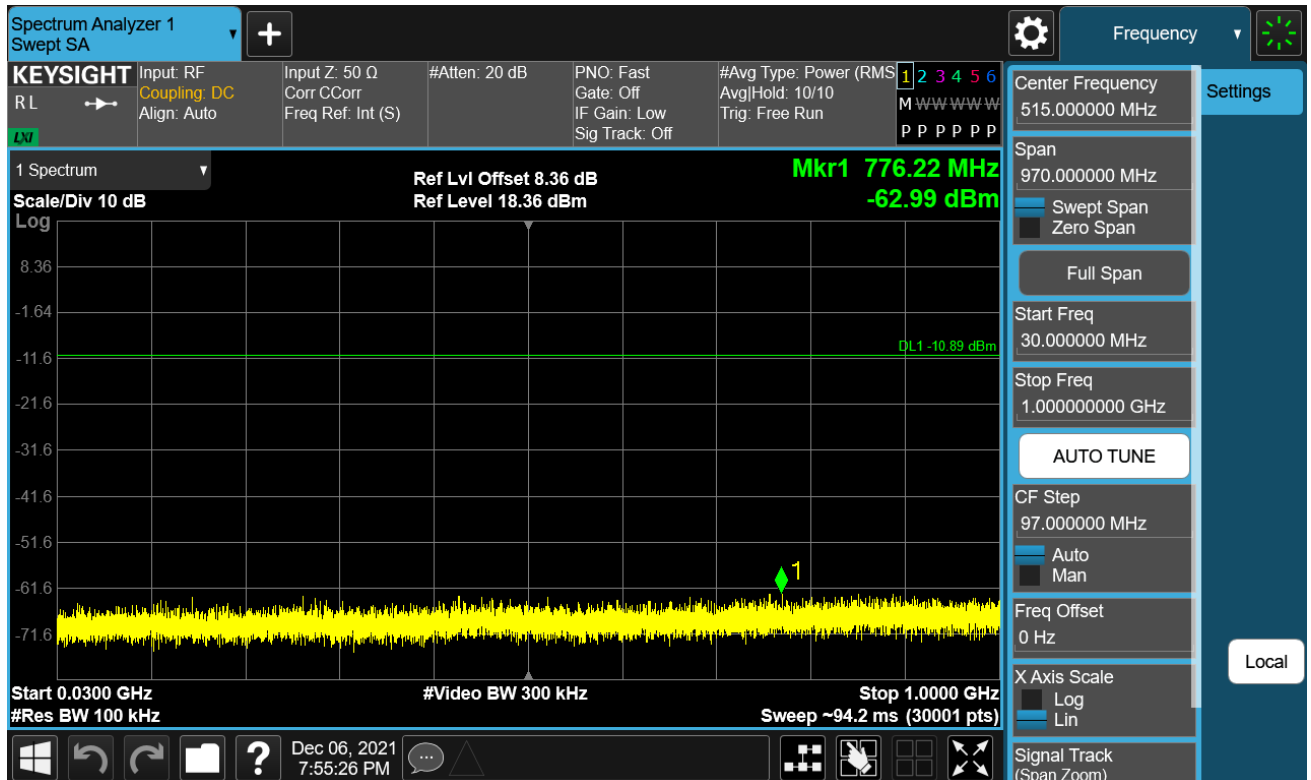
## Appendix B.3: Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Data Rate, 1Mbps

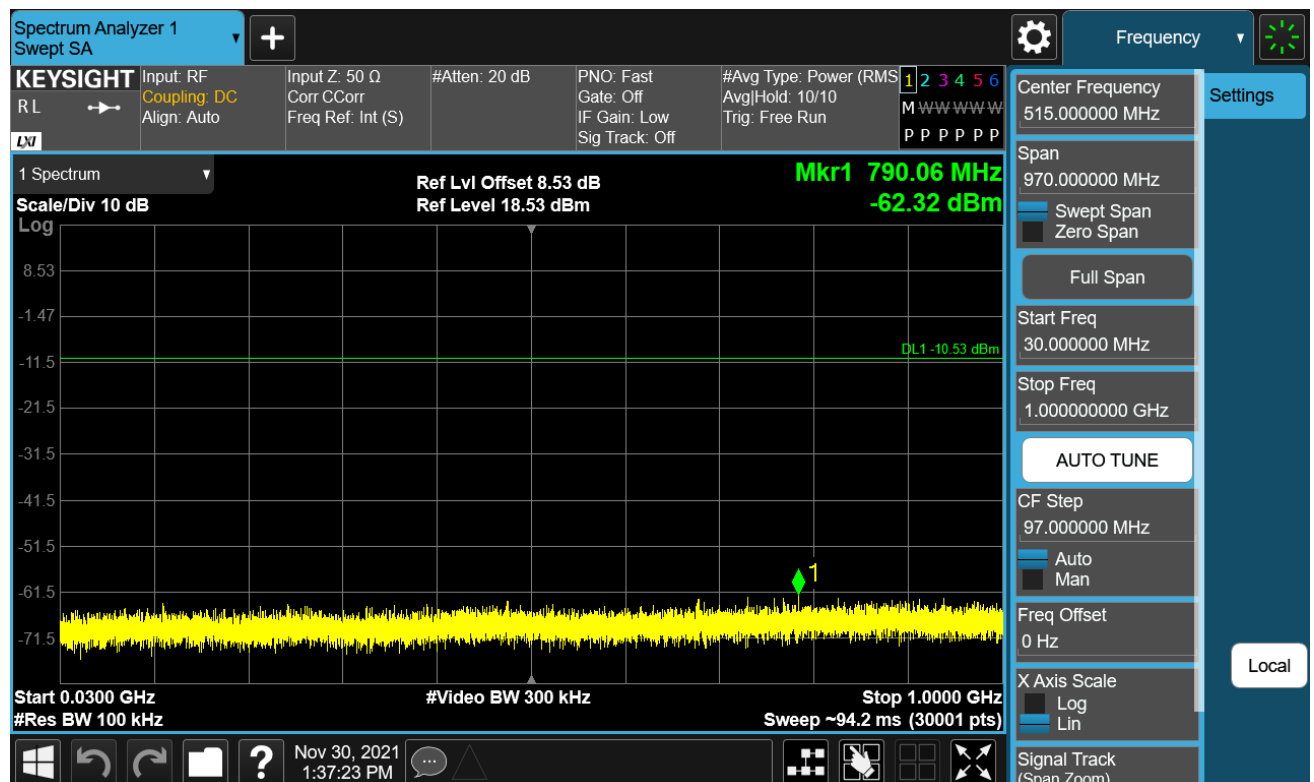
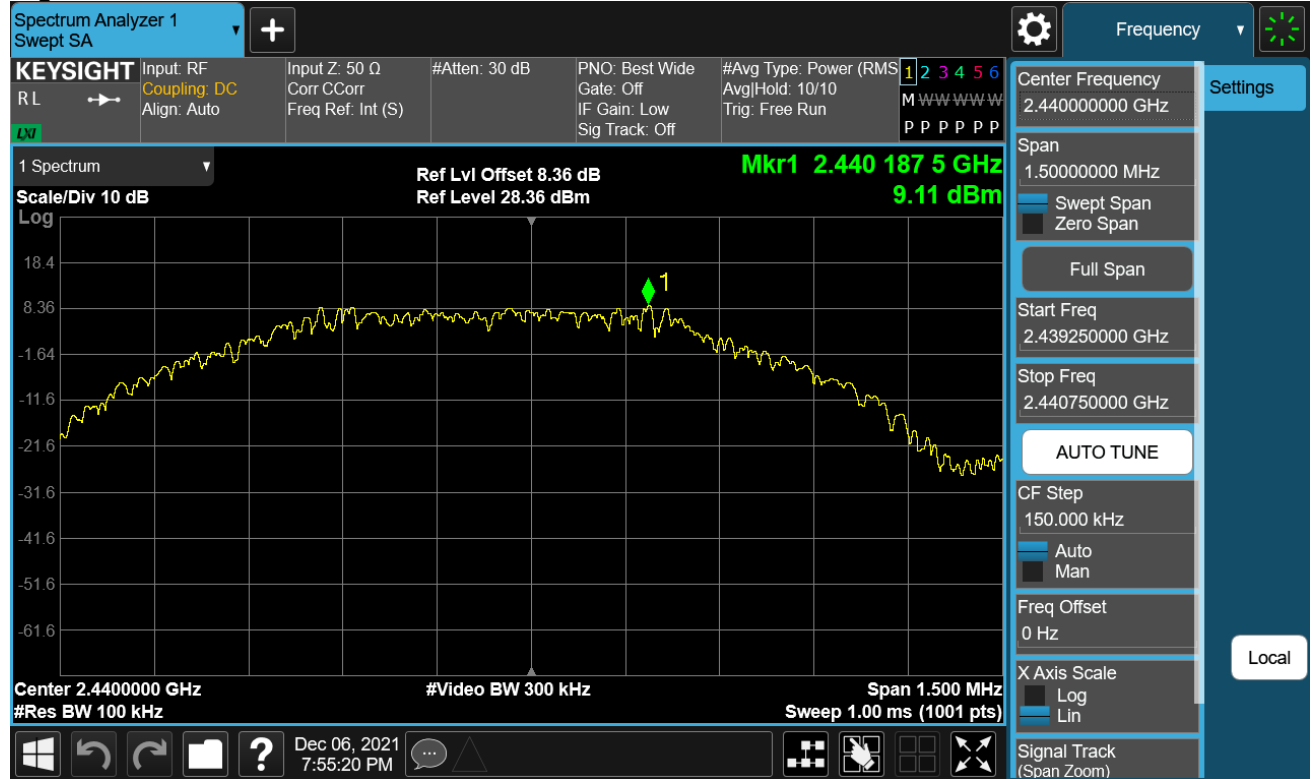
### Low Channel

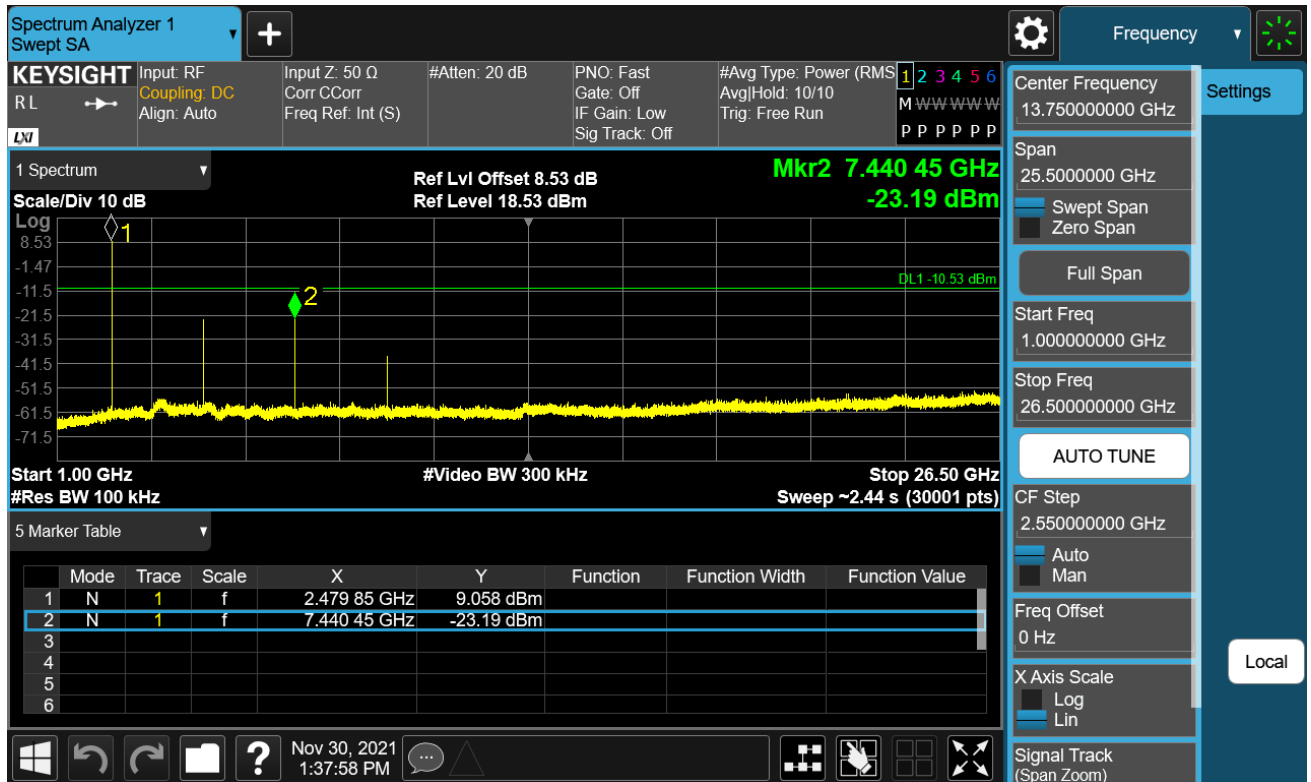


**Middle Channel**

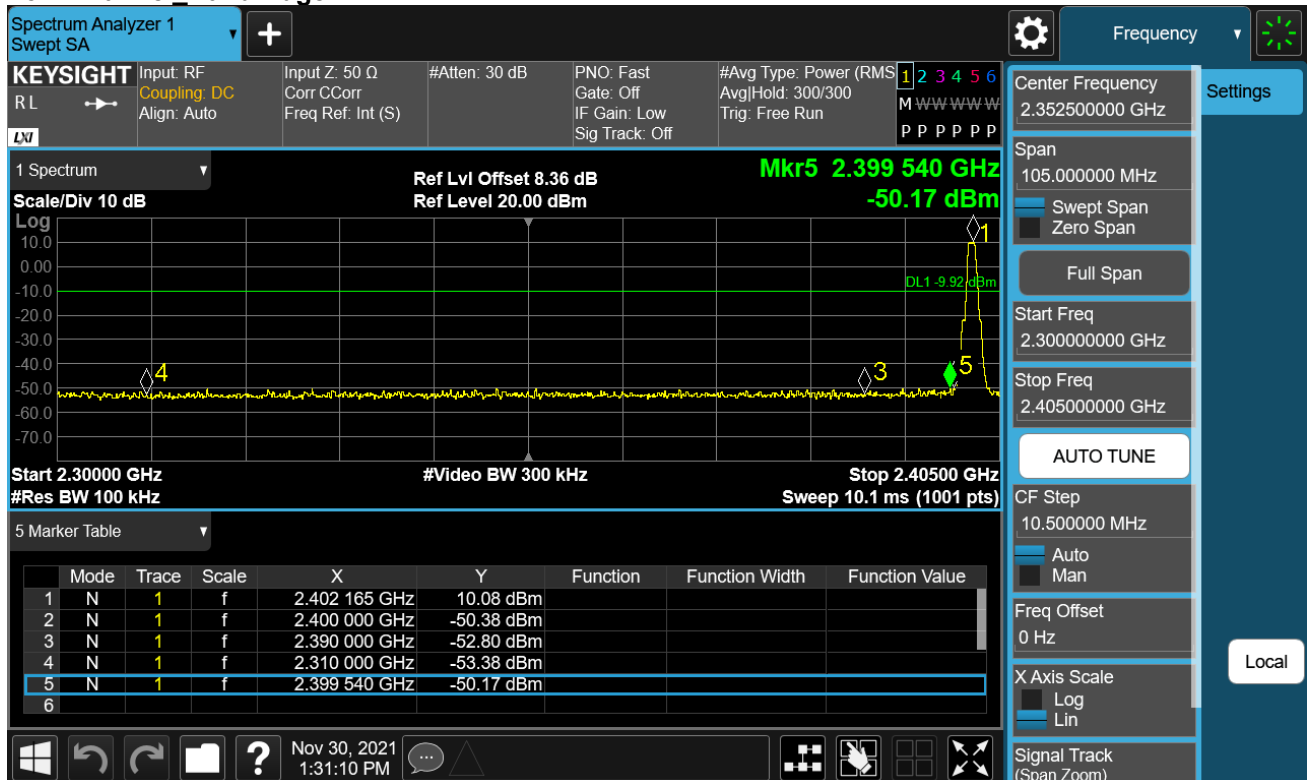


## High Channel

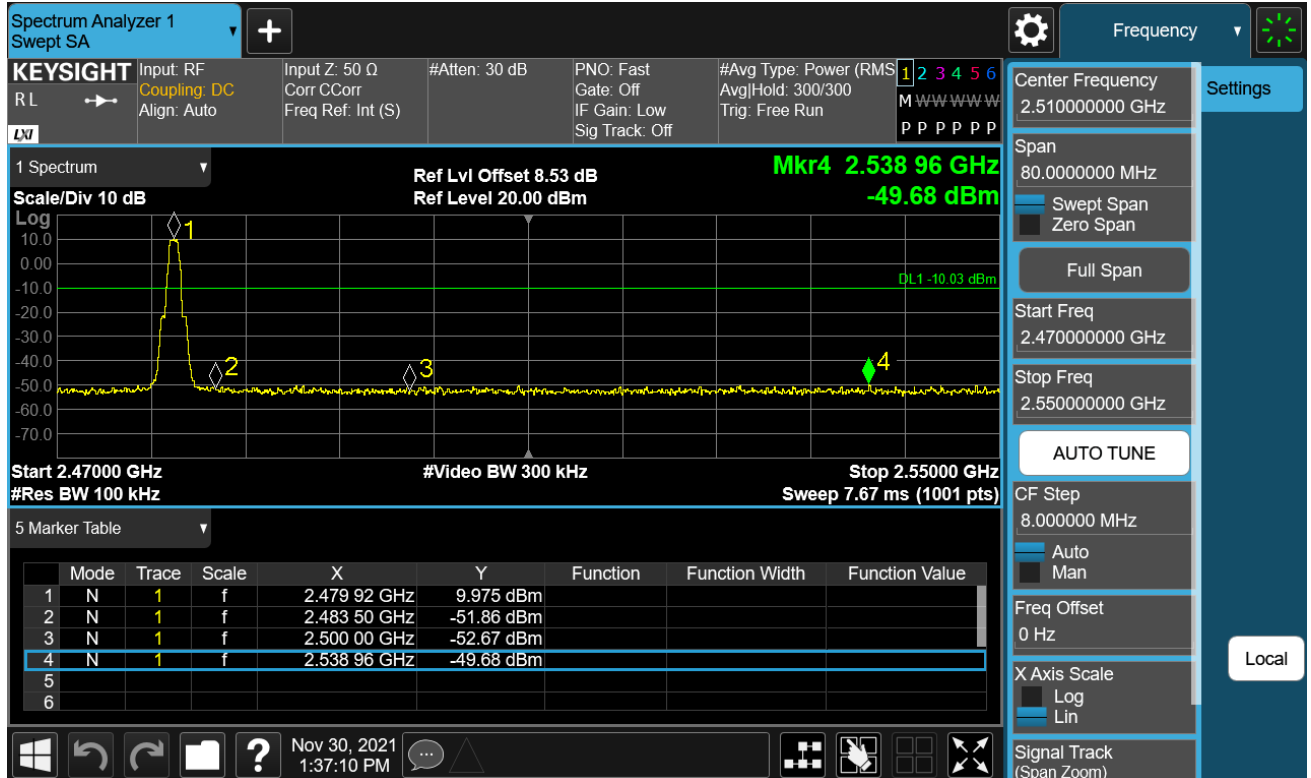




### Low Channel Band Edge



### High Channel\_Band Edge



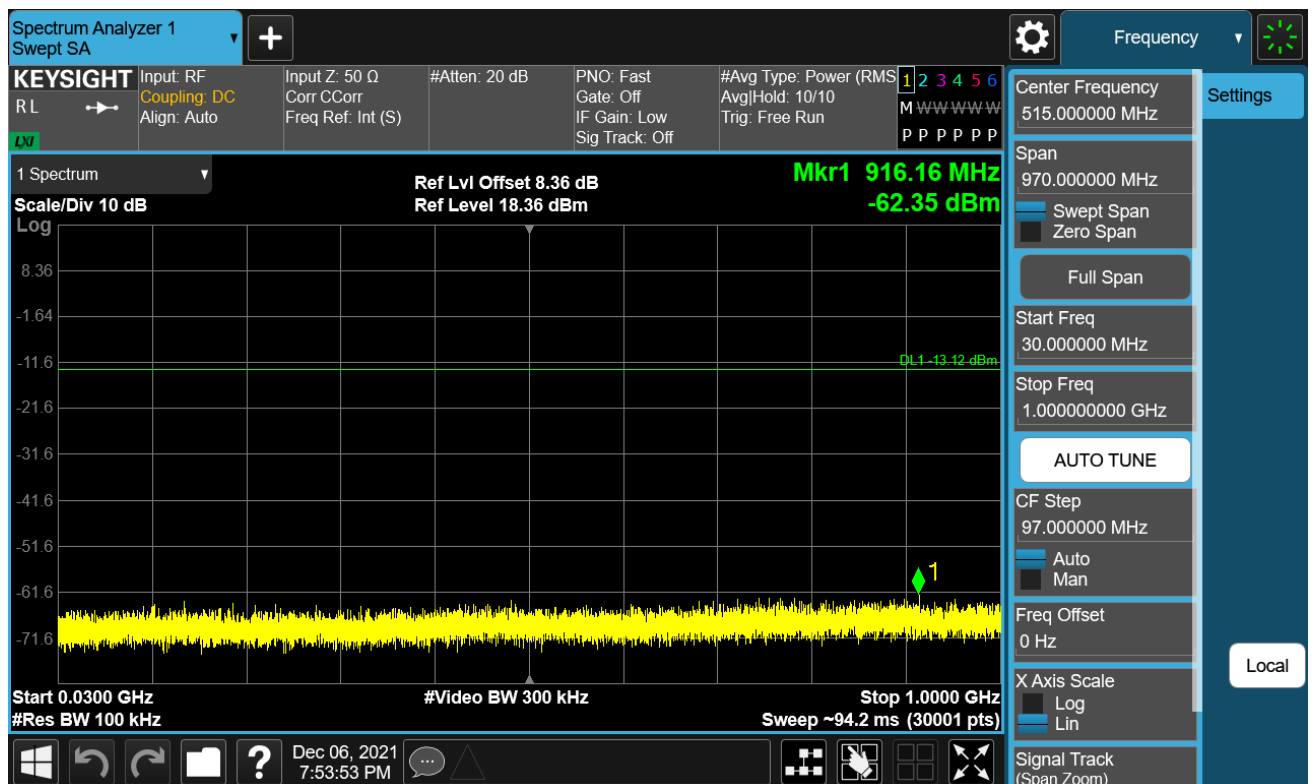
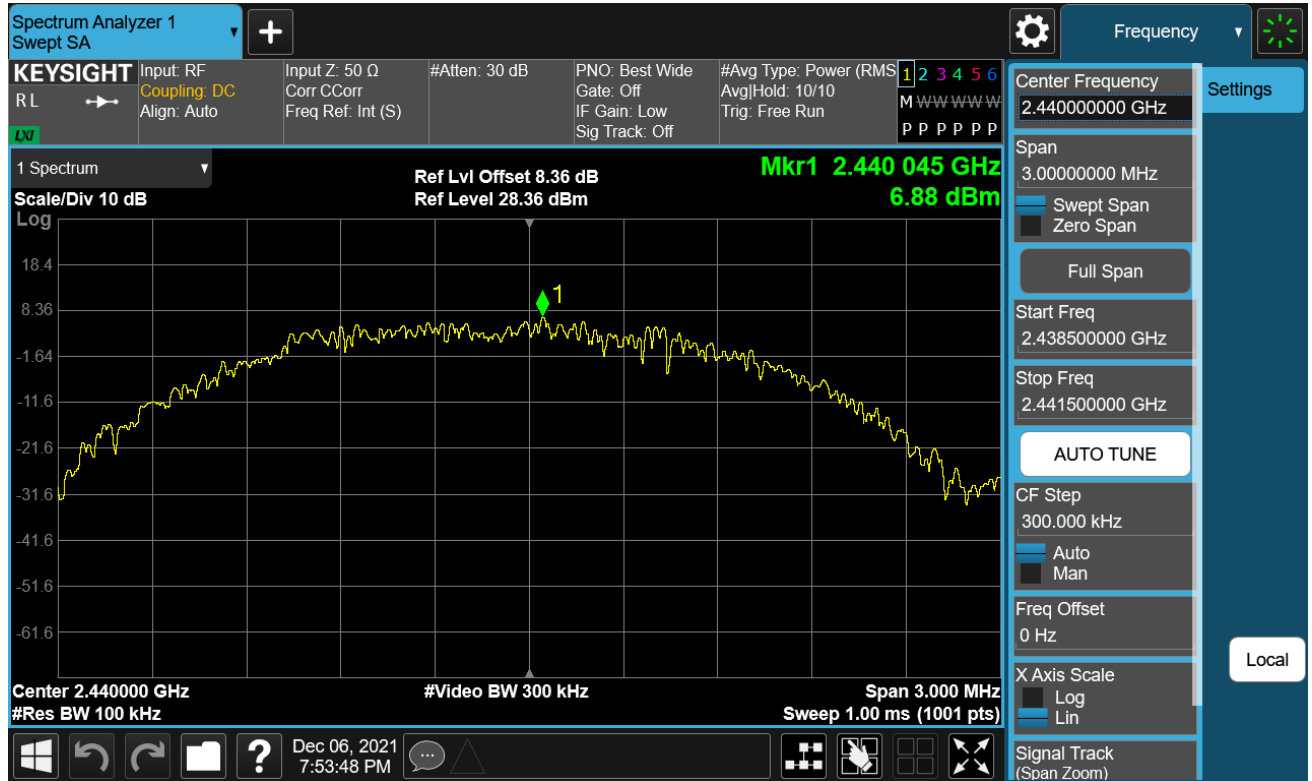
### Data Rate, 2Mbps

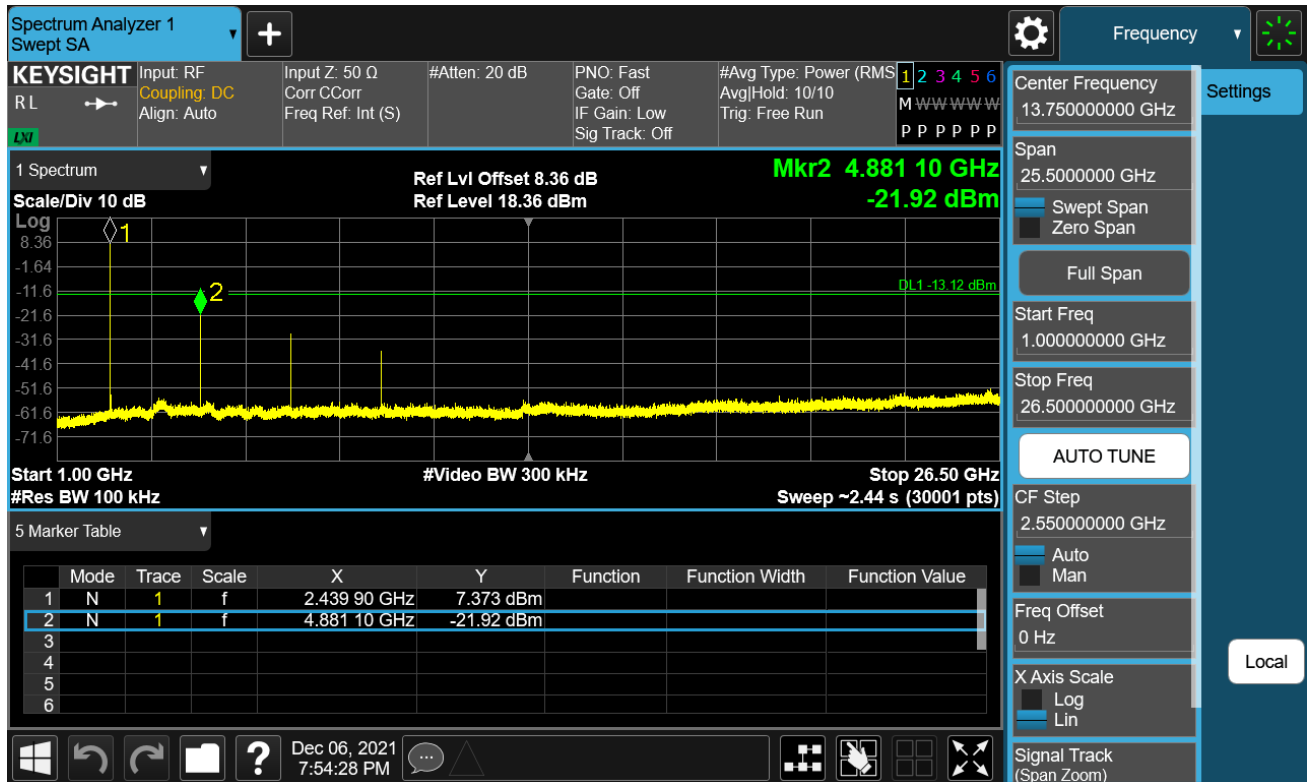
#### Low Channel

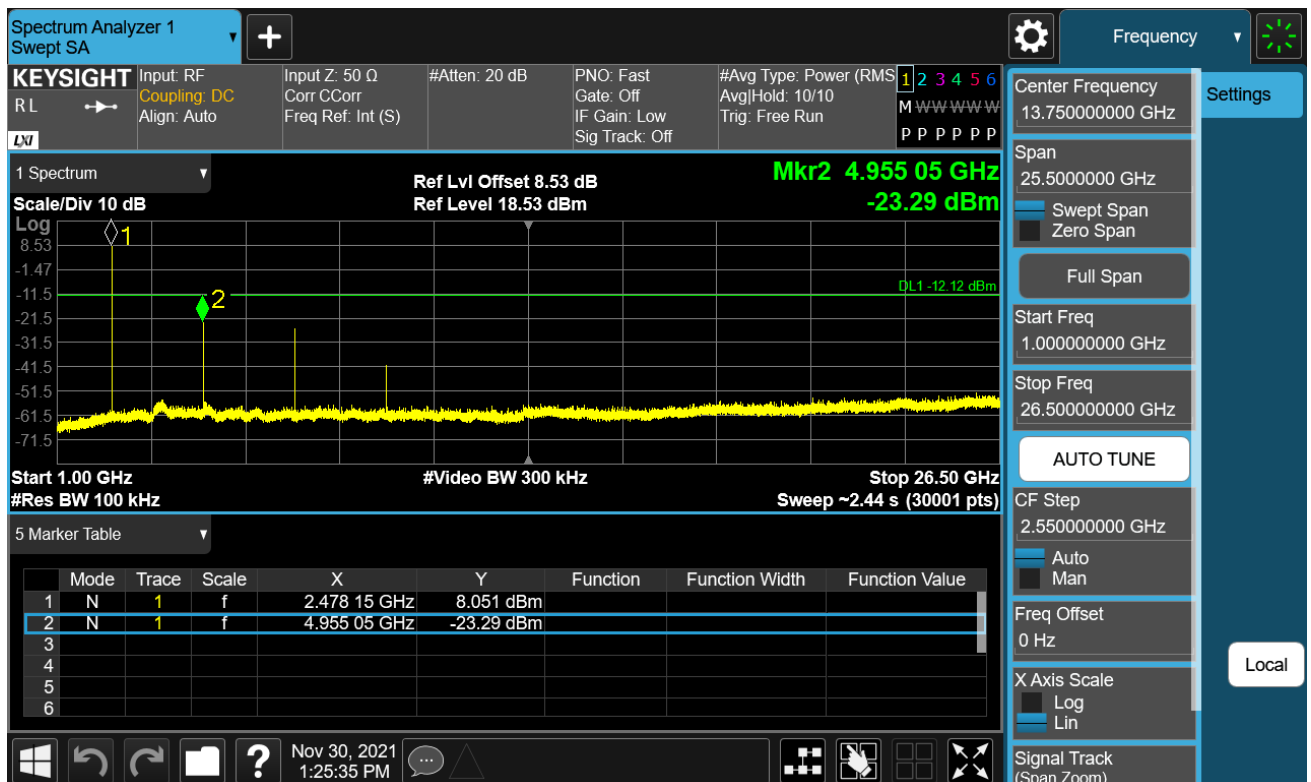
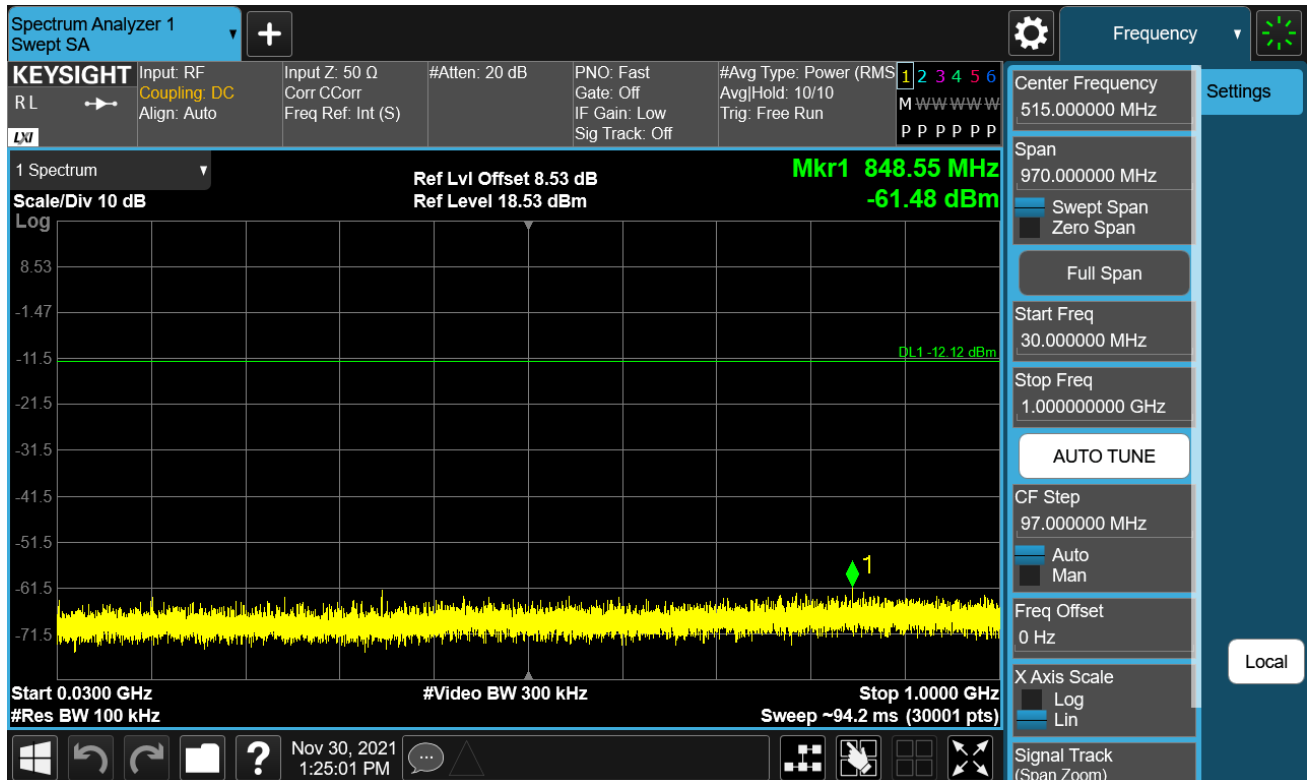




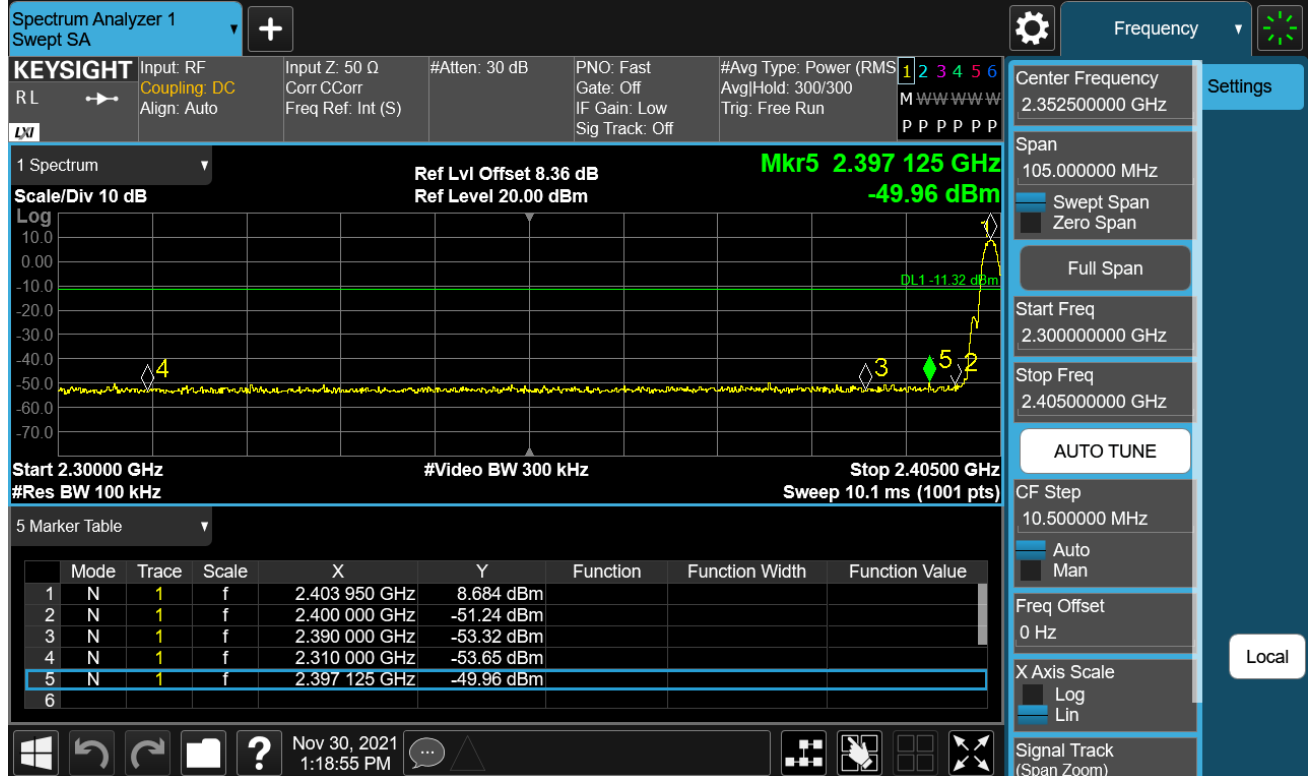
## Middle Channel



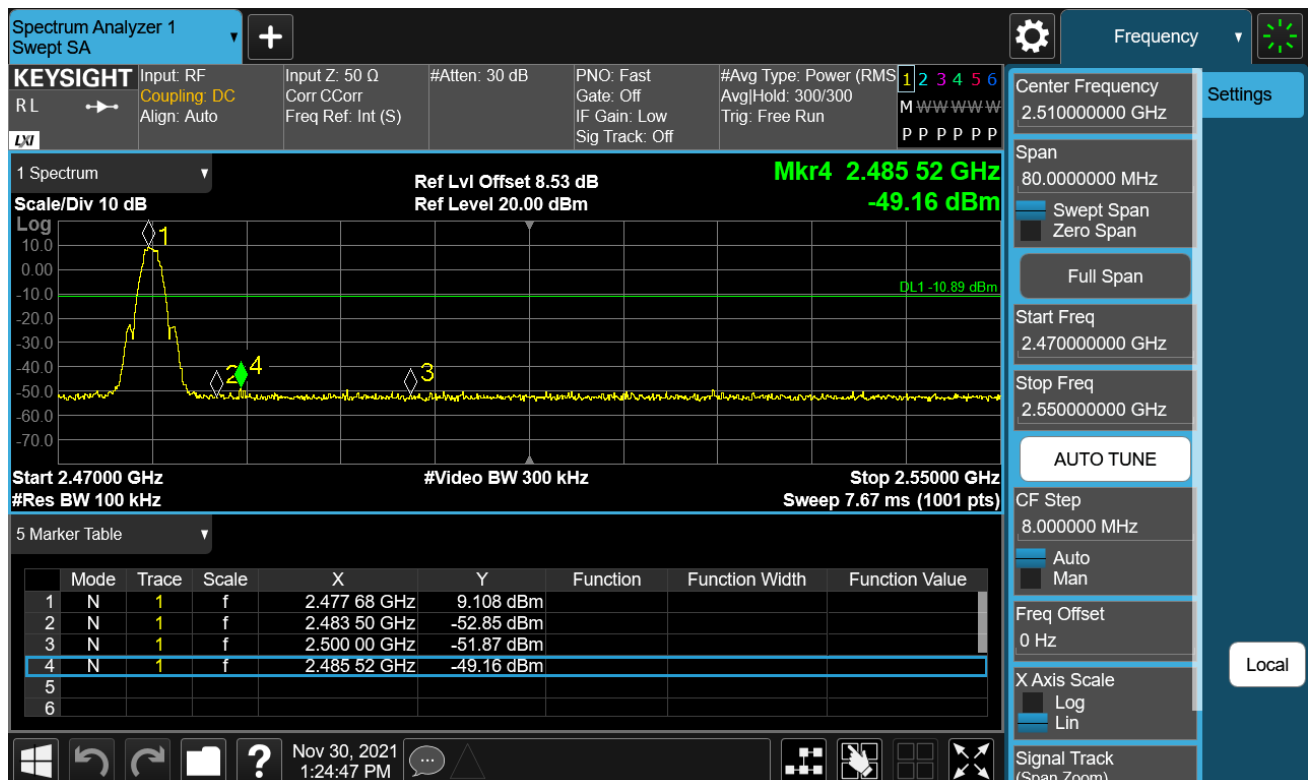
**High Channel**



## Low Channel\_Band Edge



## High Channel\_Band Edge



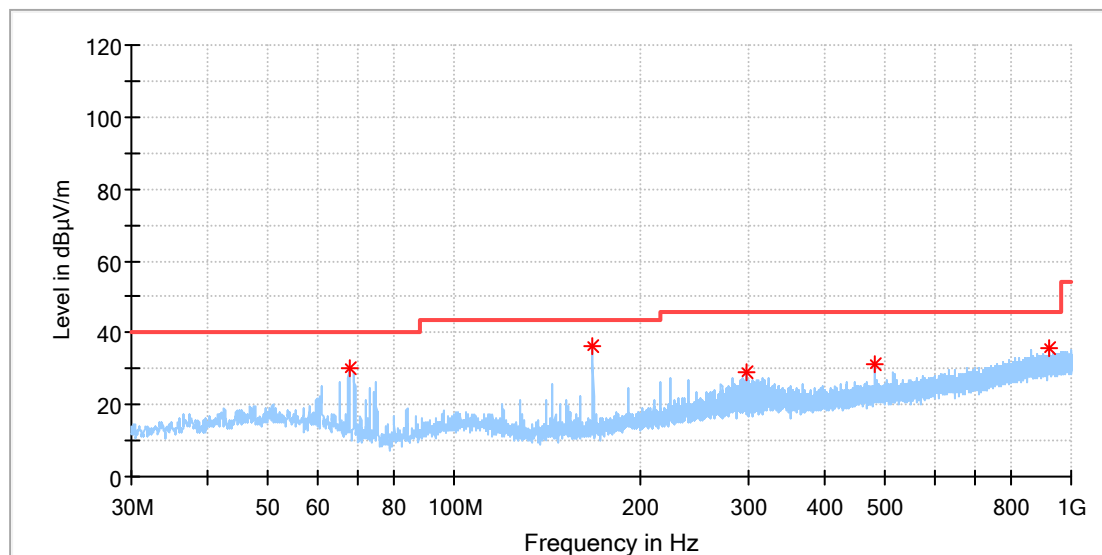
## Appendix B.4: Test Results of Radiated Spurious Emissions

Note 1: Testing was carried out within frequency range 9 kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

**Data Rate, 1Mbps**

### EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Low Channel                              |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

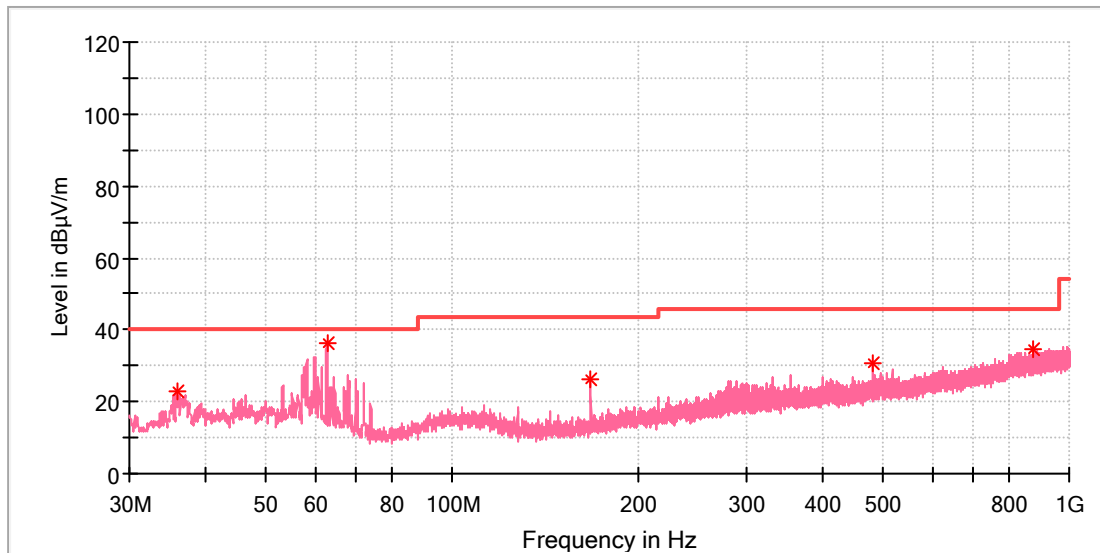


### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 67.587500       | 30.24            | 40.00          | 9.76        | 100.0       | H   | 325.0         | -21.0        |
| 167.982500      | 36.15            | 43.50          | 7.35        | 100.0       | H   | 102.0         | -21.3        |
| 298.253500      | 28.87            | 46.00          | 17.13       | 100.0       | H   | 142.0         | -16.4        |
| 479.983000      | 31.53            | 46.00          | 14.47       | 100.0       | H   | 176.0         | -12.2        |
| 921.818000      | 35.53            | 46.00          | 10.47       | 100.0       | H   | 20.0          | -4.8         |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Low Channel                              |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

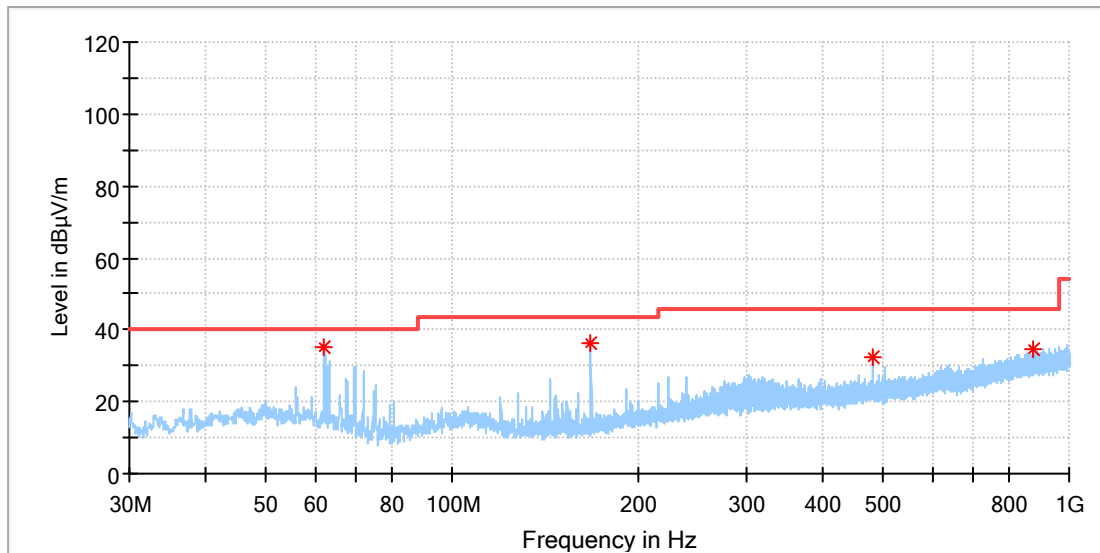


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 35.771500       | 23.00            | 40.00          | 17.00       | 100.0       | V   | 56.0          | -21.7        |
| 62.737500       | 36.18            | 40.00          | 3.82        | 100.0       | V   | 65.0          | -19.6        |
| 167.982500      | 25.98            | 43.50          | 17.52       | 100.0       | V   | 227.0         | -21.3        |
| 480.031500      | 30.64            | 46.00          | 15.36       | 100.0       | V   | 150.0         | -12.2        |
| 876.664500      | 34.53            | 46.00          | 11.47       | 100.0       | V   | 89.0          | -5.2         |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | High Channel                             |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

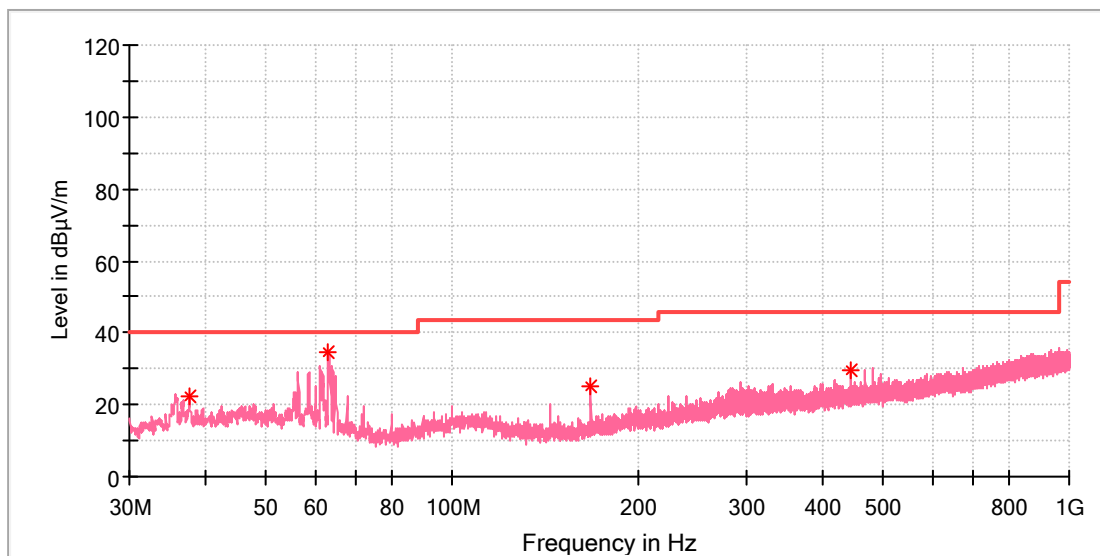


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 62.107000       | 35.22            | 40.00          | 4.78        | 100.0       | H   | 101.0         | -19.4        |
| 168.031000      | 36.10            | 43.50          | 7.40        | 100.0       | H   | 78.0          | -21.3        |
| 480.031500      | 32.52            | 46.00          | 13.48       | 100.0       | H   | 216.0         | -12.2        |
| 872.154000      | 34.40            | 46.00          | 11.60       | 100.0       | H   | 307.0         | -5.2         |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | High Channel                             |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

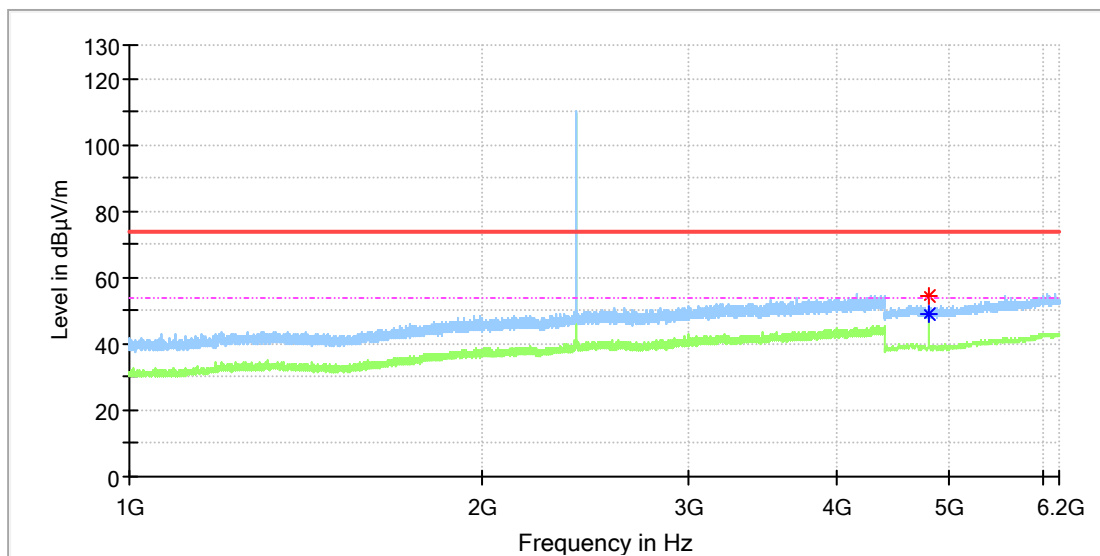


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 37.566000       | 22.17            | 40.00          | 17.83       | 100.0       | V   | 201.0         | -20.9        |
| 63.125500       | 34.58            | 40.00          | 5.42        | 100.0       | V   | 12.0          | -19.6        |
| 168.031000      | 25.01            | 43.50          | 18.49       | 100.0       | V   | 146.0         | -21.3        |
| 443.996000      | 29.63            | 46.00          | 16.37       | 100.0       | V   | 353.0         | -13.1        |

## EUT Information

EUT Name: 2.4GHz Digital Wireless Stereo Headphone  
 Model: NS-HAWHP2  
 Test Mode: Low Channel  
 Order No/Sample No: 168343239/A003163351-002  
 Test Voltage:: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

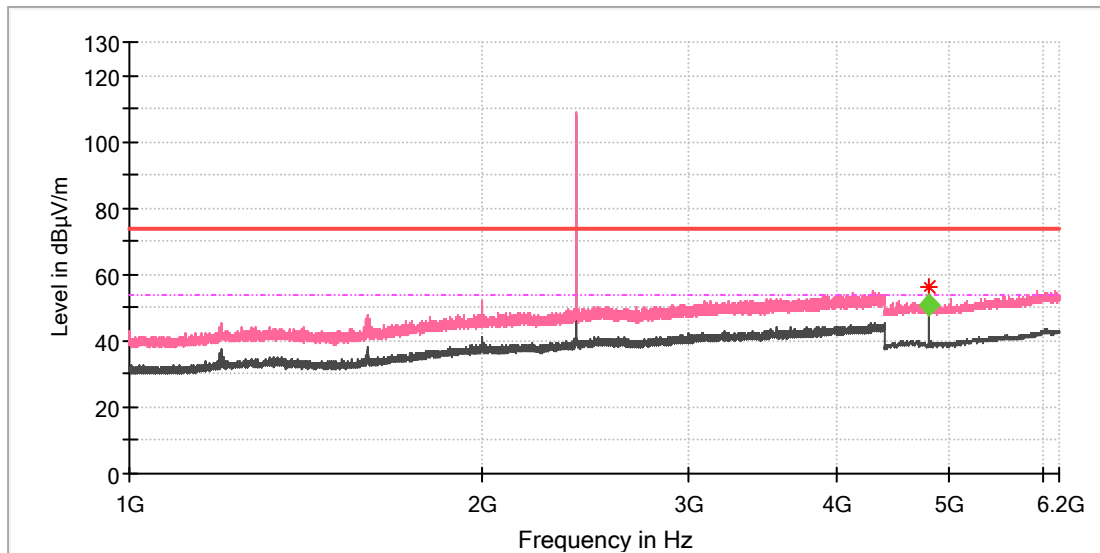


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4803.500000     | ---              | 49.03            | 54.00          | 4.97        | 100.0       | H   | 40.0          | 11.8         |
| 4804.000000     | 54.37            | ---              | 74.00          | 19.63       | 100.0       | H   | 40.0          | 11.8         |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Low Channel                              |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |



## Critical\_Freqs

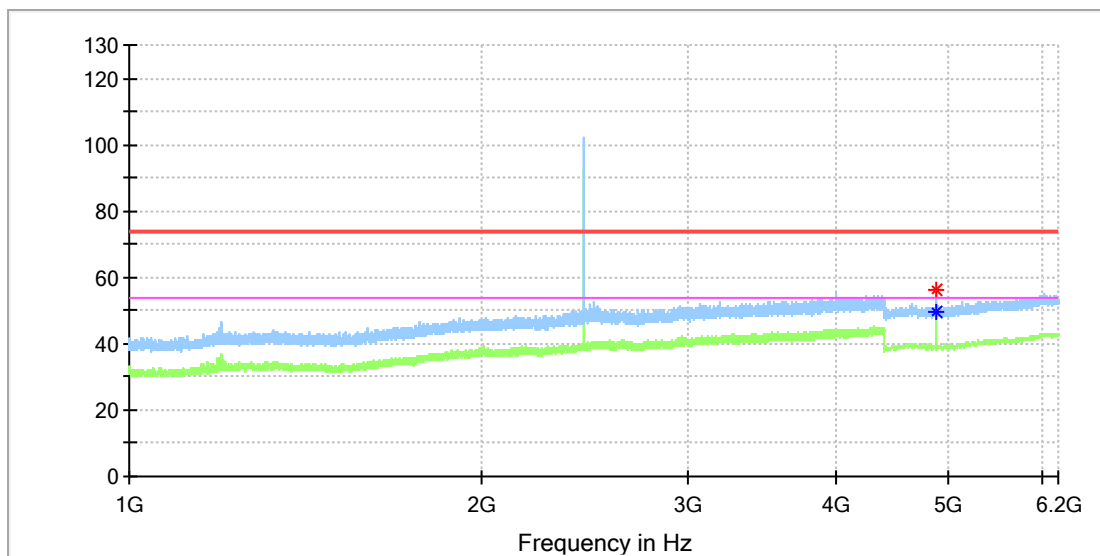
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4804.000000     | 56.31            | ---              | 74.00          | 17.69       | 100.0       | V   | 56.0          | 11.8         |

## Final\_Result

| Frequency (MHz) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4803.988889     | 50.89            | 54.00          | 3.11        | 100.0       | V   | 51.0          | 11.8         |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Middle Channel                           |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

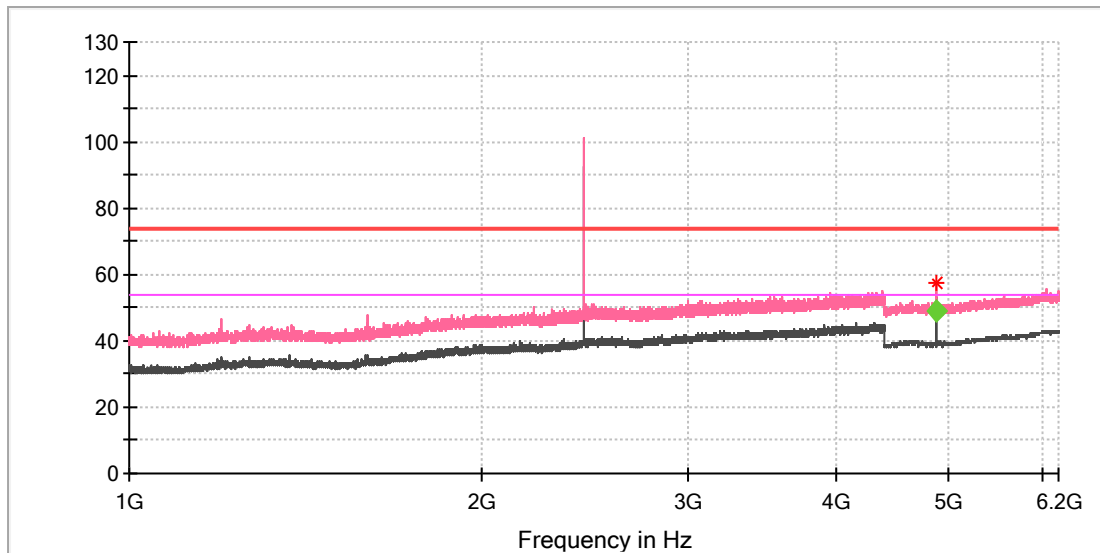


## Critical Freqs

| Frequency (MHz) | MaxPeak (dB <sub>μ</sub> /m) | Average (dB <sub>μ</sub> /m) | Limit (dB <sub>μ</sub> /m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------------------|------------------------------|----------------------------|-------------|-------------|-----|---------------|--------------|
| 4881.500000     | ---                          | 49.78                        | 54.00                      | 4.22        | 100.0       | H   | 226.0         | 11.8         |
| 4881.500000     | 56.27                        | ---                          | 74.00                      | 17.73       | 100.0       | H   | 226.0         | 11.8         |

## EUT Information

EUT Name: 2.4GHz Digital Wireless Stereo Headphone  
 Model: NS-HAWHP2  
 Test Mode: Middle Channel  
 Order No/Sample No: 168343239/A003163351-002  
 Test Voltage:: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



## Critical\_Freqs

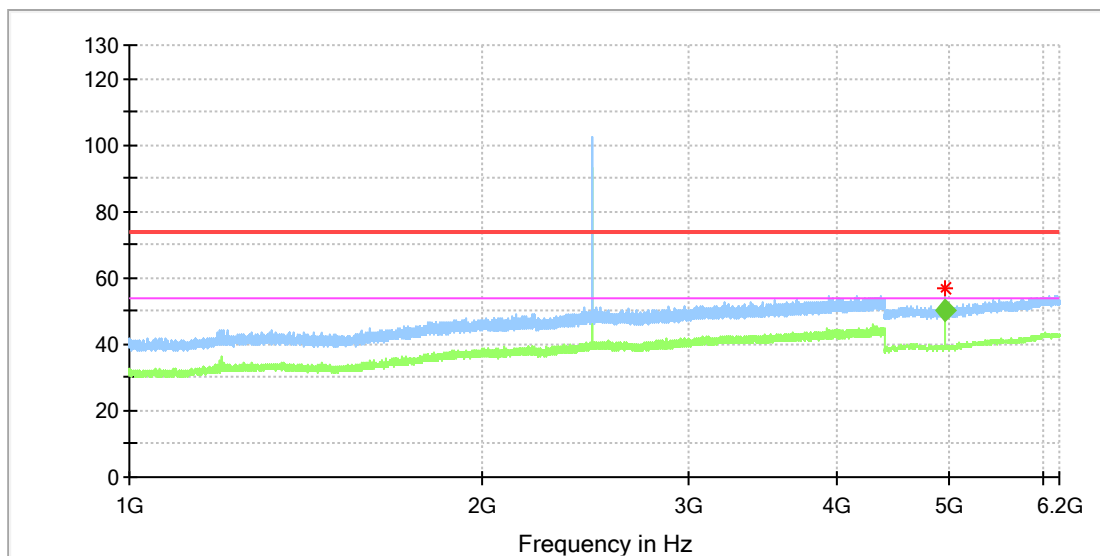
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4882.500000     | 57.32            | ---              | 74.00          | 16.68       | 100.0       | V   | 239.0         | 11.8         |

## Final\_Result

| Frequency (MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4882.394444     | 49.15            | 54.00          | 4.85        | 100.0       | V   | 236.0         | 11.8         |

## EUT Information

EUT Name: 2.4GHz Digital Wireless Stereo Headphone  
 Model: NS-HAWHP2  
 Test Mode: High Channel  
 Order No/Sample No: 168343239/A003163351-002  
 Test Voltage:: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



## Critical\_Freqs

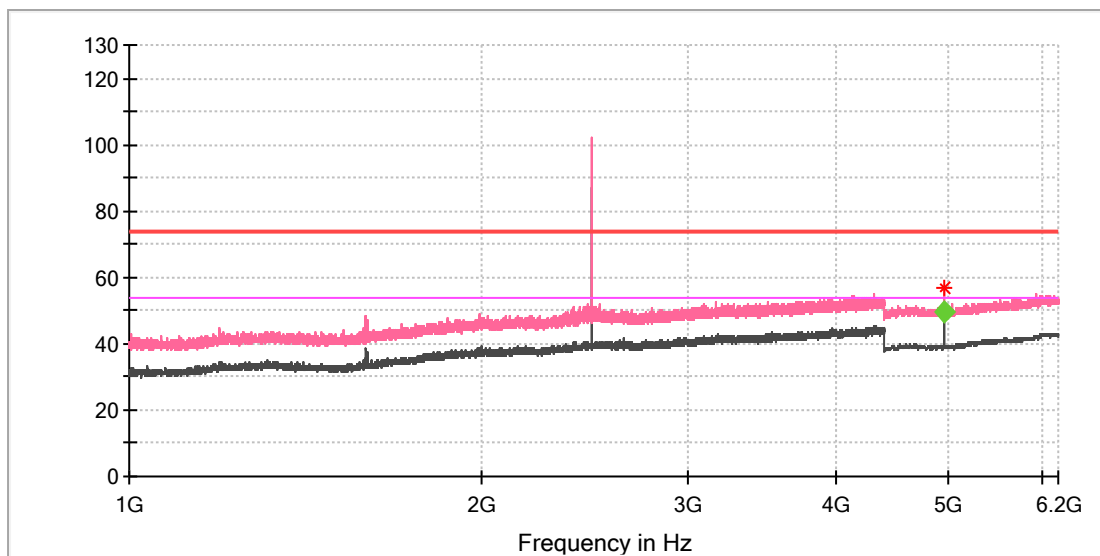
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4960.500000     | 56.90            | ---              | 74.00          | 17.10       | 100.0       | H   | 52.0          | 11.8         |

## Final\_Result

| Frequency (MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4960.197222     | 50.33            | 54.00          | 3.67        | 100.0       | H   | 32.0          | 11.8         |

## EUT Information

EUT Name: 2.4GHz Digital Wireless Stereo Headphone  
 Model: NS-HAWHP2  
 Test Mode: High Channel  
 Order No/Sample No: 168343239/A003163351-002  
 Test Voltage:: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



## Critical\_Freqs

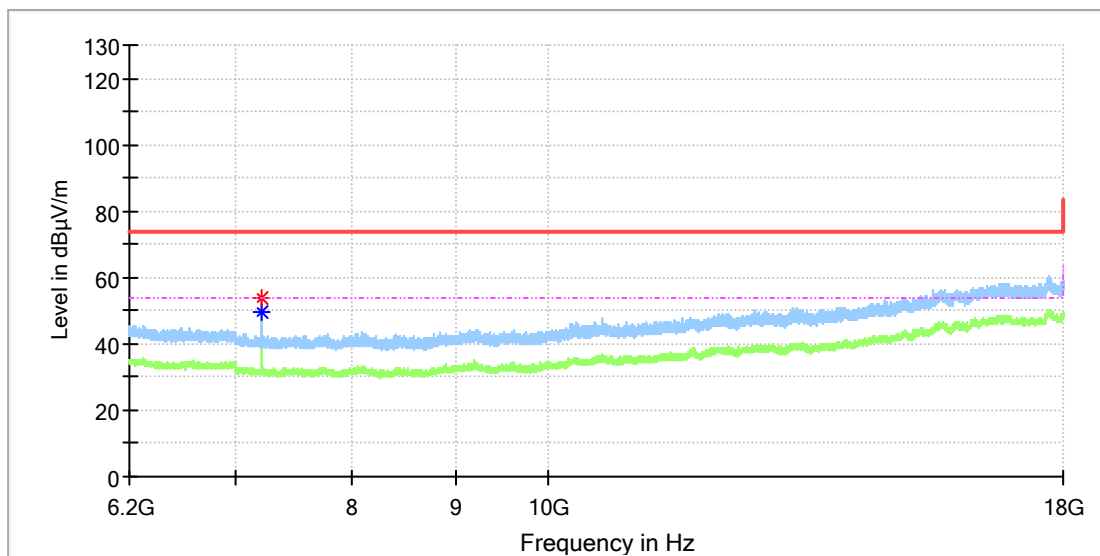
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4959.000000     | 57.00            | ---              | 74.00          | 17.00       | 100.0       | V   | 47.0          | 11.8         |

## Final\_Result

| Frequency (MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4959.569444     | 49.76            | 54.00          | 4.24        | 100.0       | V   | 46.0          | 11.8         |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Low Channel                              |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

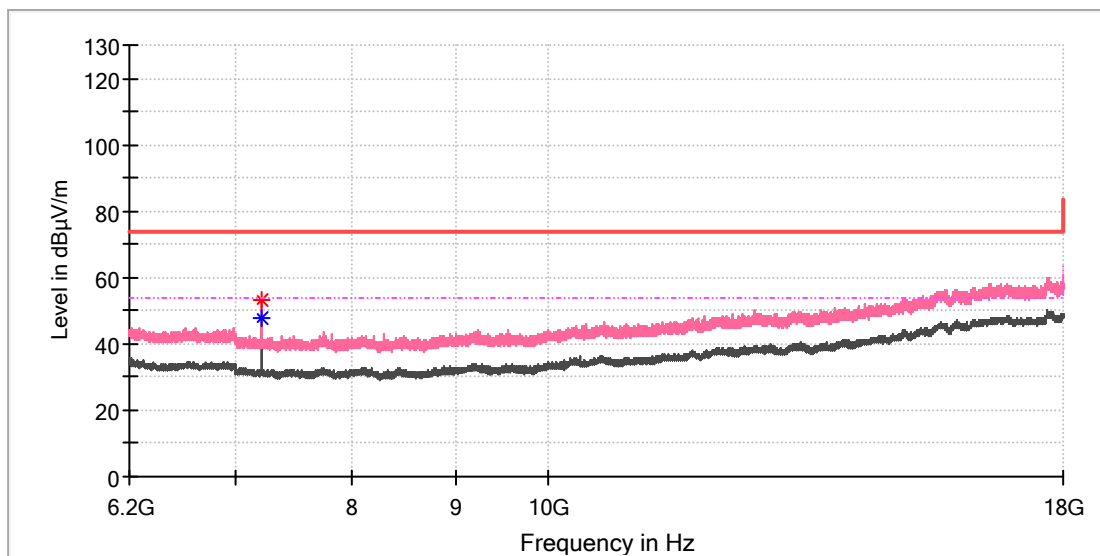


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7204.966667     | 53.96            | ---              | 74.00          | 20.04       | 100.0       | H   | 68.0          | 8.8          |
| 7205.950000     | ---              | 49.66            | 54.00          | 4.34        | 100.0       | H   | 53.0          | 8.8          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Low Channel                              |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

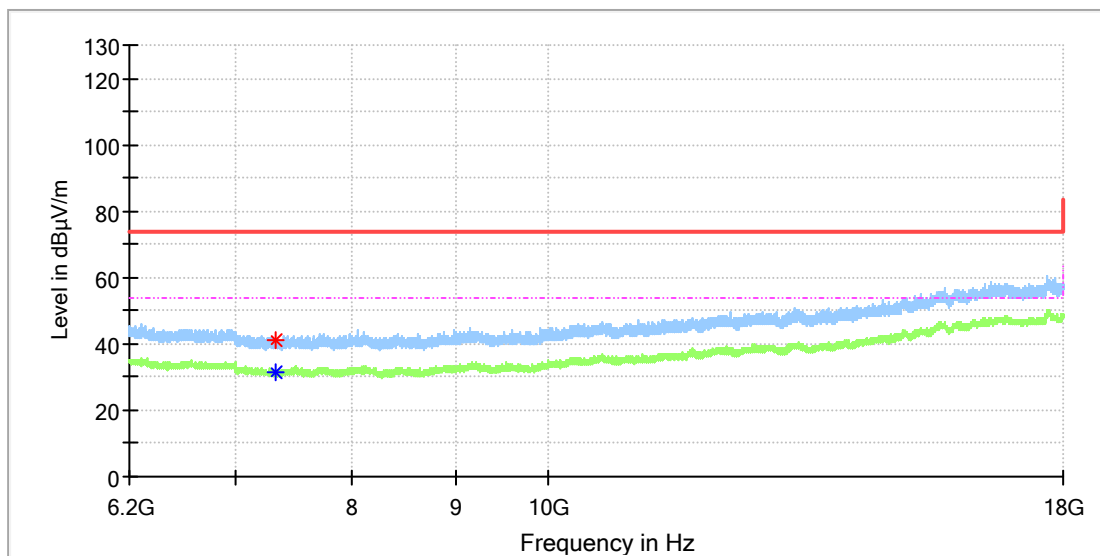


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7204.966667     | 53.10            | ---              | 74.00          | 20.90       | 100.0       | V   | 249.0         | 8.8          |
| 7205.458333     | ---              | 47.78            | 54.00          | 6.22        | 100.0       | V   | 249.0         | 8.8          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Middle Channel                           |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

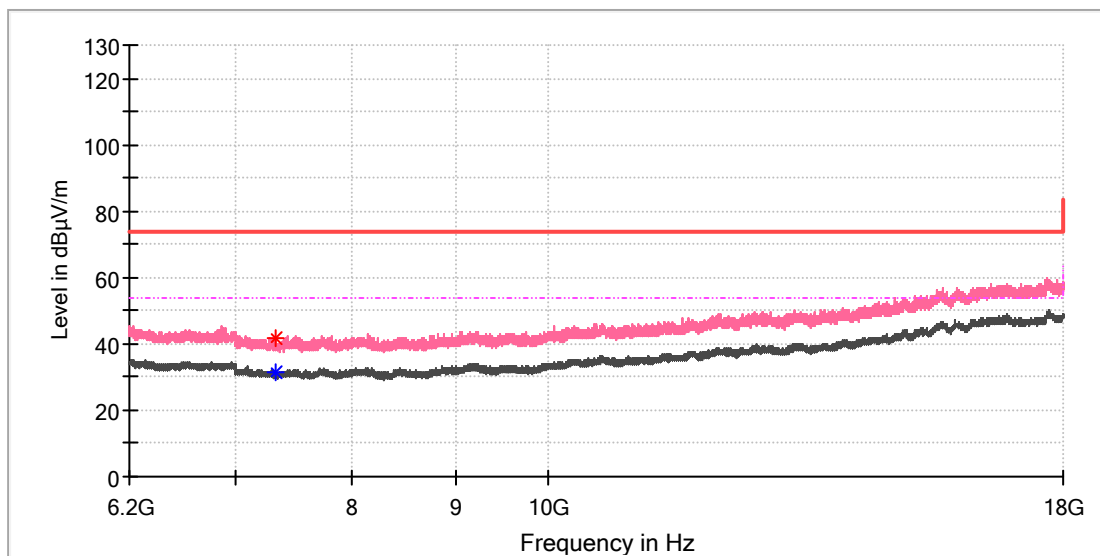


## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7320.016667     | 41.38            | ---              | 74.00          | 32.62       | 100.0       | H   | 221.0         | 8.2          |
| 7323.458333     | ---              | 31.27            | 54.00          | 22.73       | 100.0       | H   | 333.0         | 8.2          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Middle Channel                           |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

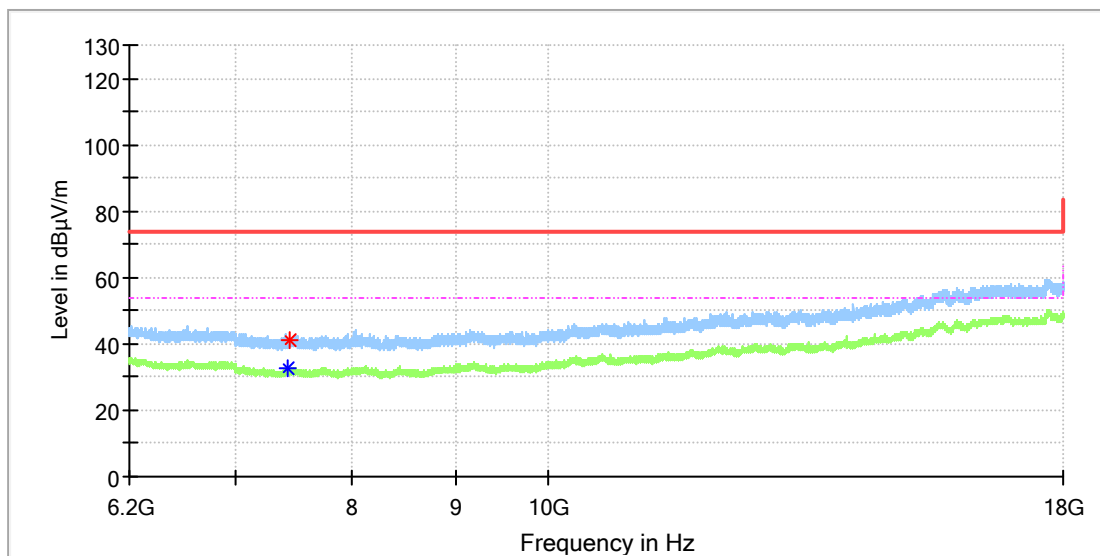


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7321.983333     | 41.59            | ---              | 74.00          | 32.41       | 100.0       | V   | 306.0         | 8.2          |
| 7321.983333     | ---              | 31.44            | 54.00          | 22.56       | 100.0       | V   | 306.0         | 8.2          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | High Channel                             |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

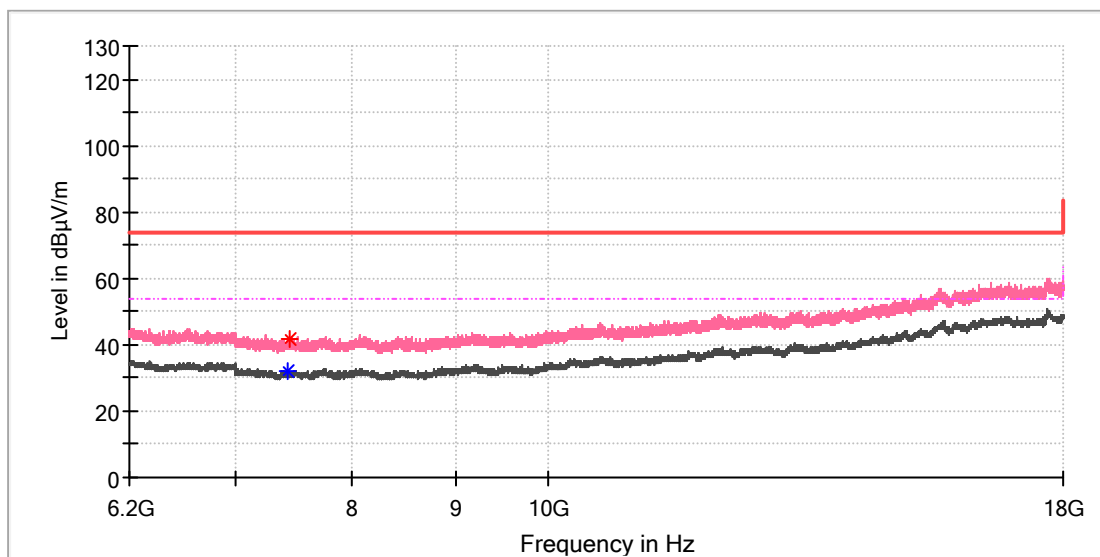


## Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7432.116667     | ---              | 32.73            | 54.00          | 21.27       | 100.0       | H   | 47.0          | 8.4          |
| 7438.508333     | 41.33            | ---              | 74.00          | 32.67       | 100.0       | H   | 134.0         | 8.4          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | High Channel                             |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

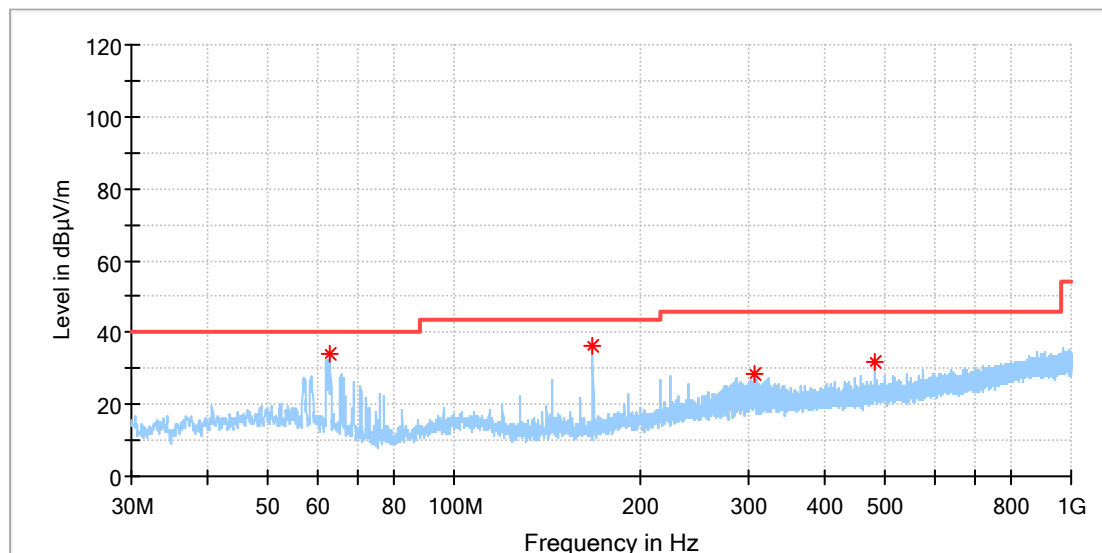


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7433.591667     | ---              | 32.16            | 54.00          | 21.84       | 100.0       | V   | 179.0         | 8.4          |
| 7438.508333     | 41.49            | ---              | 74.00          | 32.51       | 100.0       | V   | 346.0         | 8.4          |

**Data Rate, 2Mbps****EUT Information**

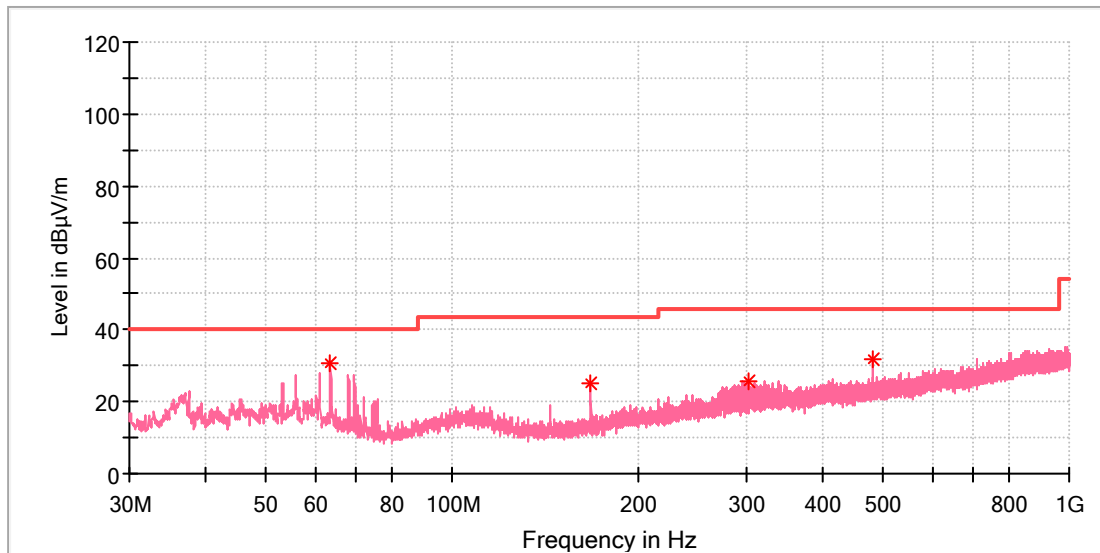
|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Low Channel                              |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 62.980000       | 34.15            | 40.00          | 5.85        | 100.0       | H   | 204.0         | -19.6        |
| 168.031000      | 36.56            | 43.50          | 6.95        | 100.0       | H   | 96.0          | -21.3        |
| 306.644000      | 28.46            | 46.00          | 17.54       | 100.0       | H   | 13.0          | -16.1        |
| 480.031500      | 32.05            | 46.00          | 13.95       | 100.0       | H   | 235.0         | -12.2        |

## EUT Information

EUT Name: 2.4GHz Digital Wireless Stereo Headphone  
 Model: NS-HAWHP2  
 Test Mode: Low Channel  
 Order No/Sample No: 168343239/A003163351-002  
 Test Voltage:: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin

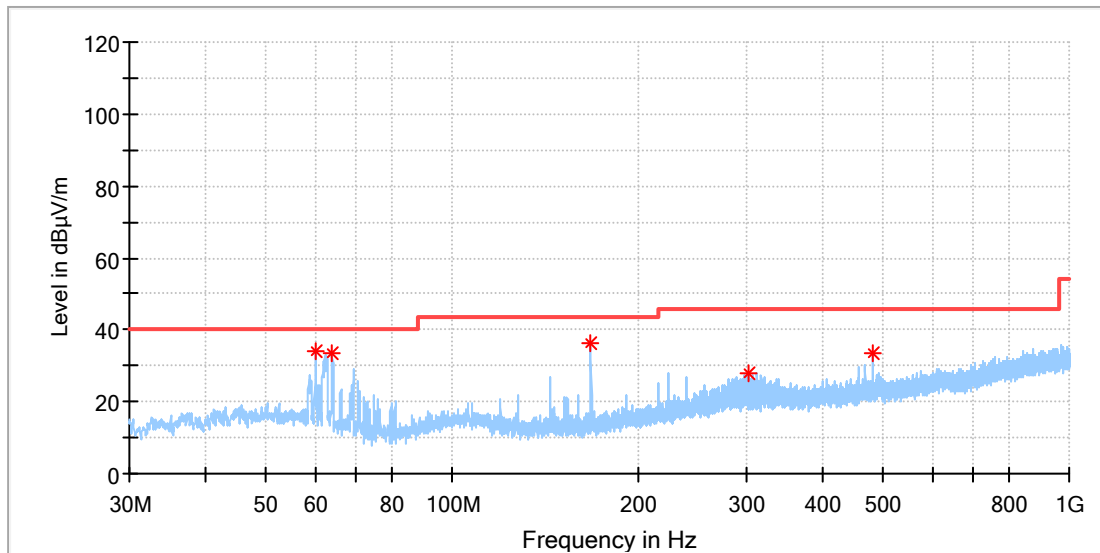


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 63.465000       | 30.92            | 40.00          | 9.08        | 100.0       | V   | 219.0         | -19.7        |
| 168.031000      | 25.10            | 43.50          | 18.40       | 100.0       | V   | 188.0         | -21.3        |
| 301.842500      | 25.73            | 46.00          | 20.27       | 100.0       | V   | 106.0         | -16.2        |
| 480.031500      | 31.88            | 46.00          | 14.12       | 100.0       | V   | 343.0         | -12.2        |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | High Channel                             |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

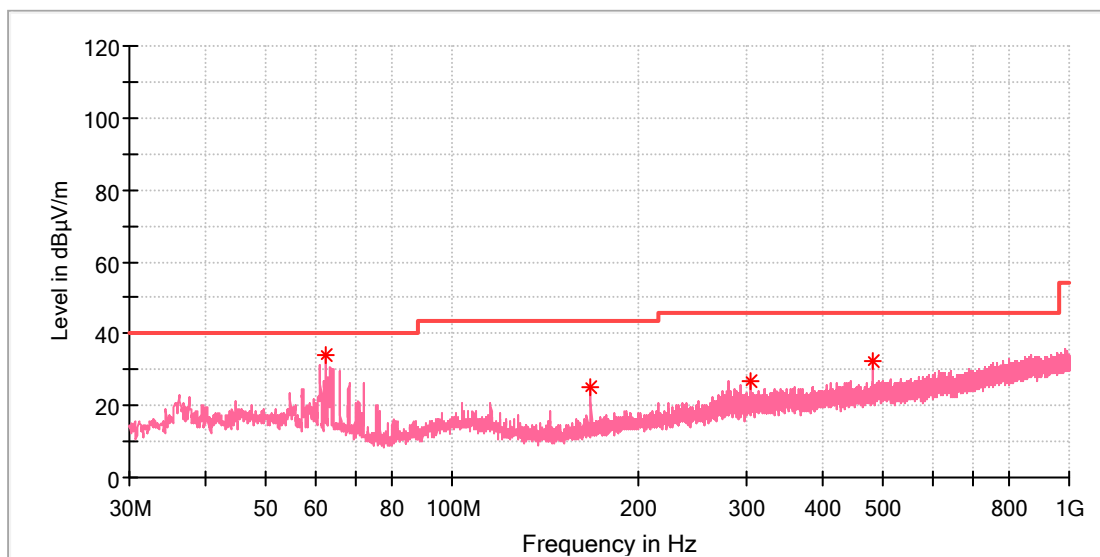


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 60.070000       | 33.92            | 40.00          | 6.08        | 100.0       | H   | 106.0         | -19.0        |
| 63.998500       | 33.40            | 40.00          | 6.60        | 100.0       | H   | 163.0         | -19.8        |
| 168.031000      | 36.55            | 43.50          | 6.95        | 100.0       | H   | 97.0          | -21.3        |
| 302.764000      | 27.70            | 46.00          | 18.30       | 100.0       | H   | 0.0           | -16.2        |
| 480.031500      | 33.69            | 46.00          | 12.31       | 100.0       | H   | 294.0         | -12.2        |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | High Channel                             |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

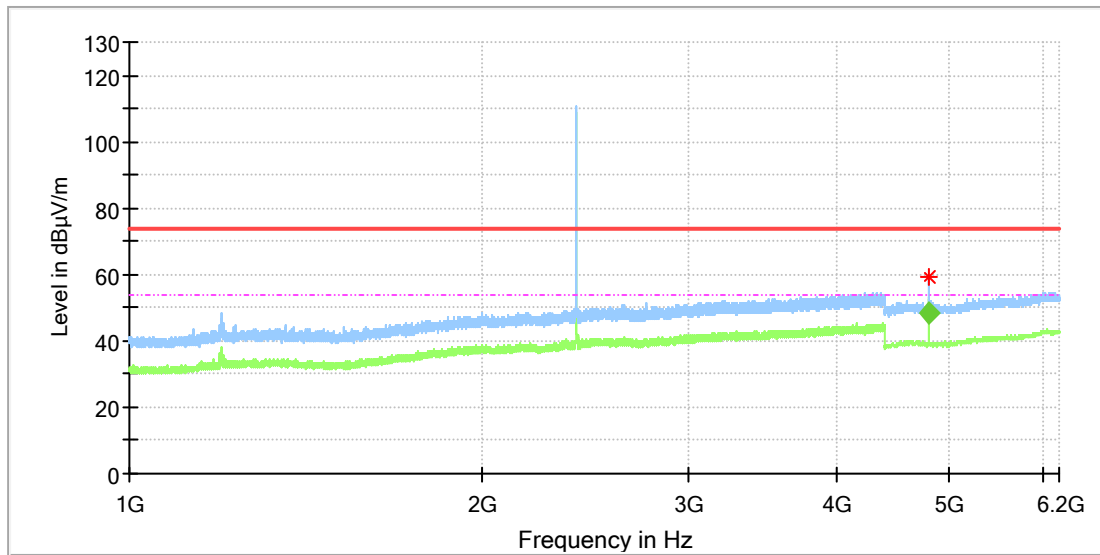


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 62.398000       | 34.18            | 40.00          | 5.82        | 100.0       | V   | 67.0          | -19.5        |
| 168.031000      | 25.19            | 43.50          | 18.31       | 100.0       | V   | 161.0         | -21.3        |
| 303.976500      | 27.03            | 46.00          | 18.97       | 100.0       | V   | 114.0         | -16.2        |
| 480.031500      | 32.17            | 46.00          | 13.83       | 100.0       | V   | 0.0           | -12.2        |

## EUT Information

EUT Name: 2.4GHz Digital Wireless Stereo Headphone  
 Model: NS-HAWHP2  
 Test Mode: Low Channel  
 Order No/Sample No: 168343239/A003163351-002  
 Test Voltage:: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



## Critical\_Freqs

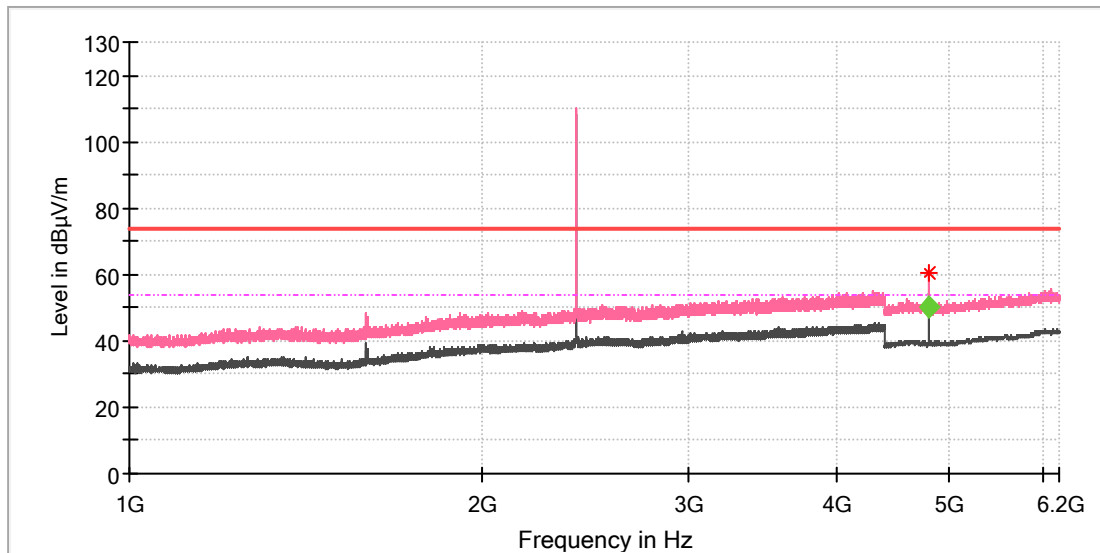
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4808.500000     | 59.06            | ---              | 74.00          | 14.94       | 100.0       | H   | 230.0         | 11.8         |

## Final\_Result

| Frequency (MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4806.927778     | 48.36            | 54.00          | 5.64        | 100.0       | H   | 229.0         | 11.8         |

## EUT Information

EUT Name: 2.4GHz Digital Wireless Stereo Headphone  
 Model: NS-HAWHP2  
 Test Mode: Low Channel  
 Order No/Sample No: 168343239/A003163351-002  
 Test Voltage:: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



## Critical\_Freqs

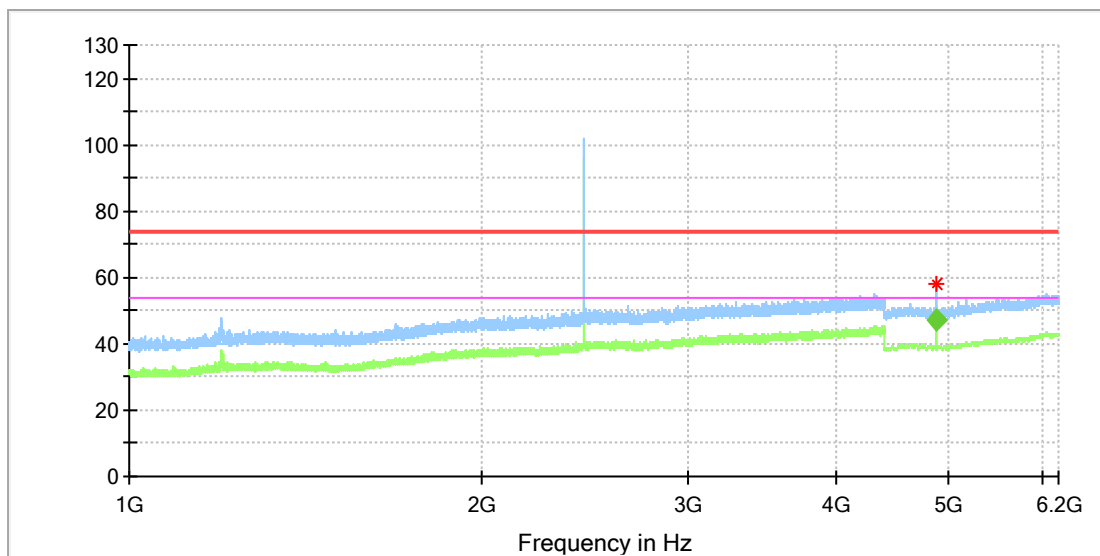
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4808.500000     | 60.62            | ---              | 74.00          | 13.38       | 100.0       | V   | 221.0         | 11.8         |

## Final\_Result

| Frequency (MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4808.552778     | 50.21            | 54.00          | 3.79        | 100.0       | V   | 216.0         | 11.8         |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Middle Channel                           |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |



## Critical\_Freqs

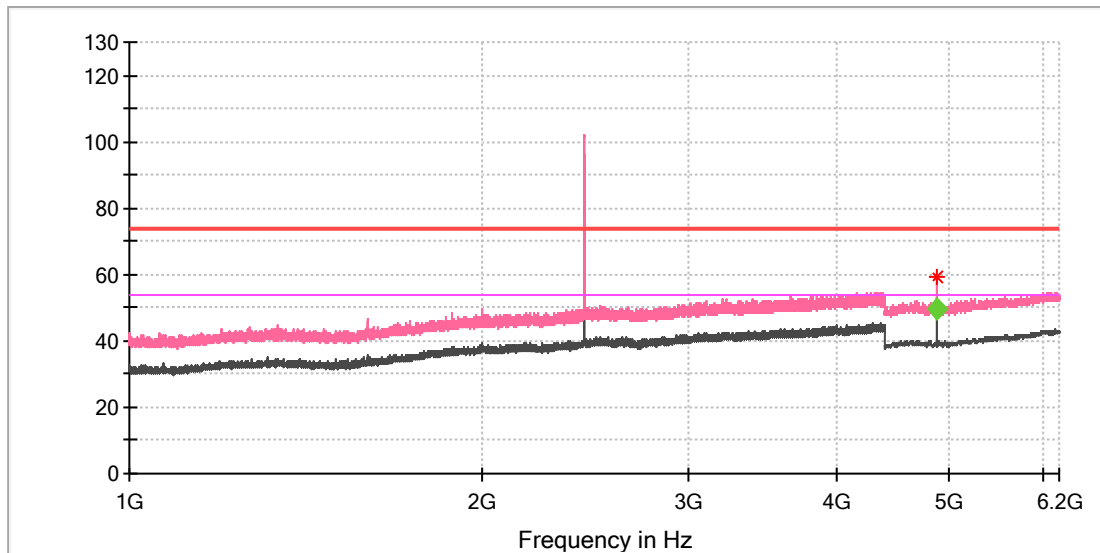
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4882.500000     | 58.13            | ---              | 74.00          | 15.87       | 100.0       | H   | 232.0         | 11.8         |

## Final\_Result

| Frequency (MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4880.852778     | 47.08            | 54.00          | 6.92        | 100.0       | H   | 230.0         | 11.8         |

## EUT Information

EUT Name: 2.4GHz Digital Wireless Stereo Headphone  
 Model: NS-HAWHP2  
 Test Mode: Middle Channel  
 Order No/Sample No: 168343239/A003163351-002  
 Test Voltage:: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



## Critical\_Freqs

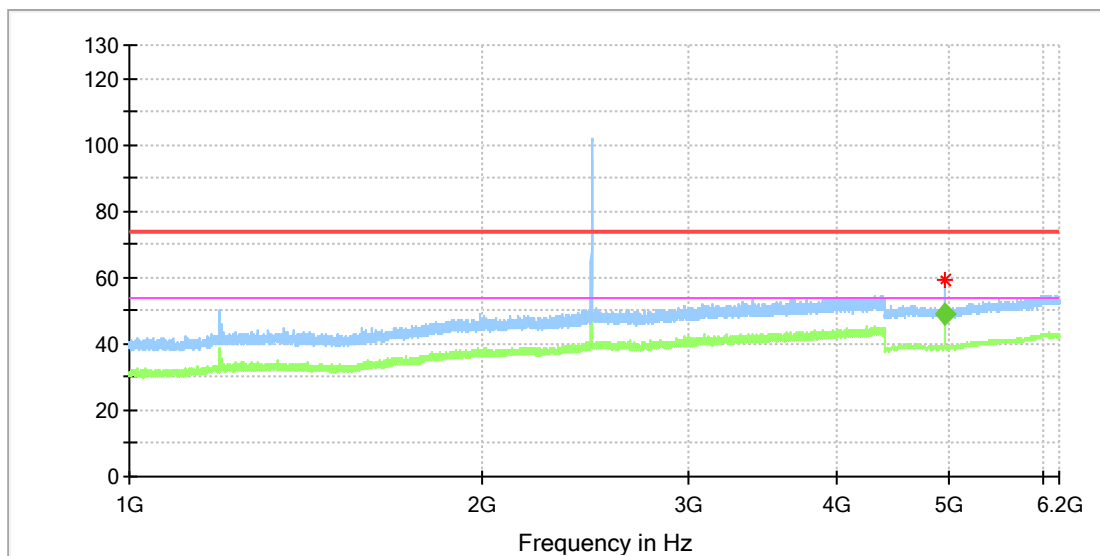
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4882.500000     | 59.32            | ---              | 74.00          | 14.68       | 100.0       | V   | 247.0         | 11.8         |

## Final\_Result

| Frequency (MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4880.902778     | 49.71            | 54.00          | 4.29        | 100.0       | V   | 242.0         | 11.8         |

## EUT Information

EUT Name: 2.4GHz Digital Wireless Stereo Headphone  
 Model: NS-HAWHP2  
 Test Mode: High Channel  
 Order No/Sample No: 168343239/A003163351-002  
 Test Voltage:: Battery  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



## Critical\_Freqs

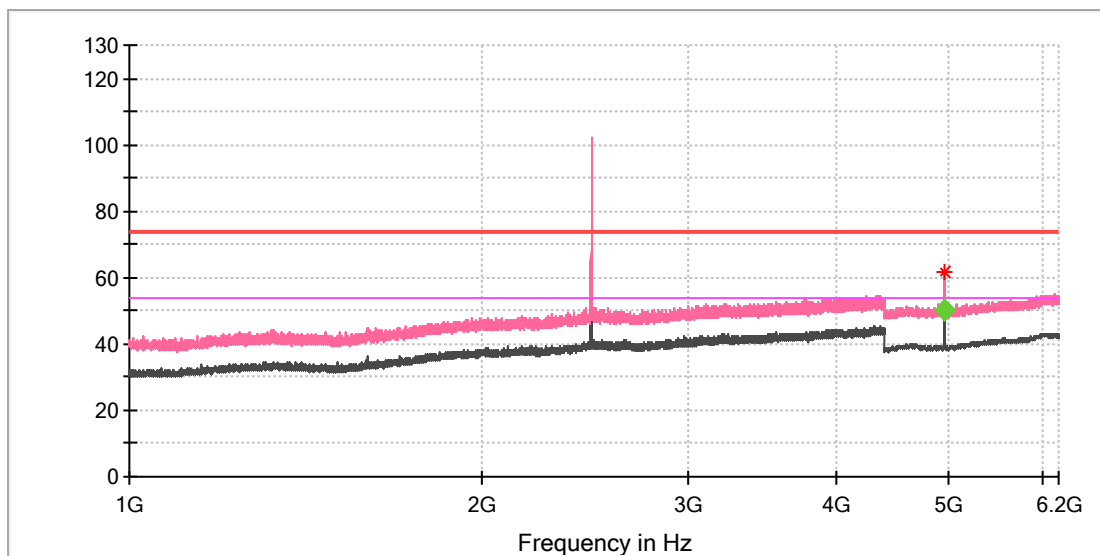
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4954.500000     | 59.51            | ---              | 74.00          | 14.49       | 100.0       | H   | 226.0         | 11.8         |

## Final\_Result

| Frequency (MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4956.972222     | 48.99            | 54.00          | 5.01        | 100.0       | H   | 224.0         | 11.8         |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | High Channel                             |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |



## Critical\_Freqs

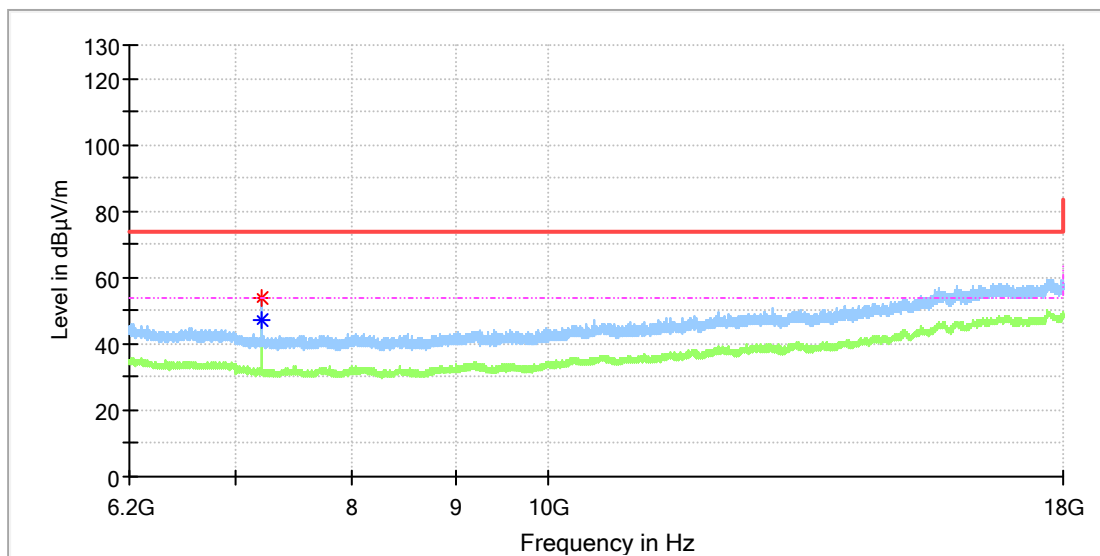
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4957.000000     | 61.44            | ---              | 74.00          | 12.56       | 100.0       | V   | 241.0         | 11.8         |

## Final\_Result

| Frequency (MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4957.069444     | 50.40            | 54.00          | 3.60        | 100.0       | V   | 239.0         | 11.8         |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Low Channel                              |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

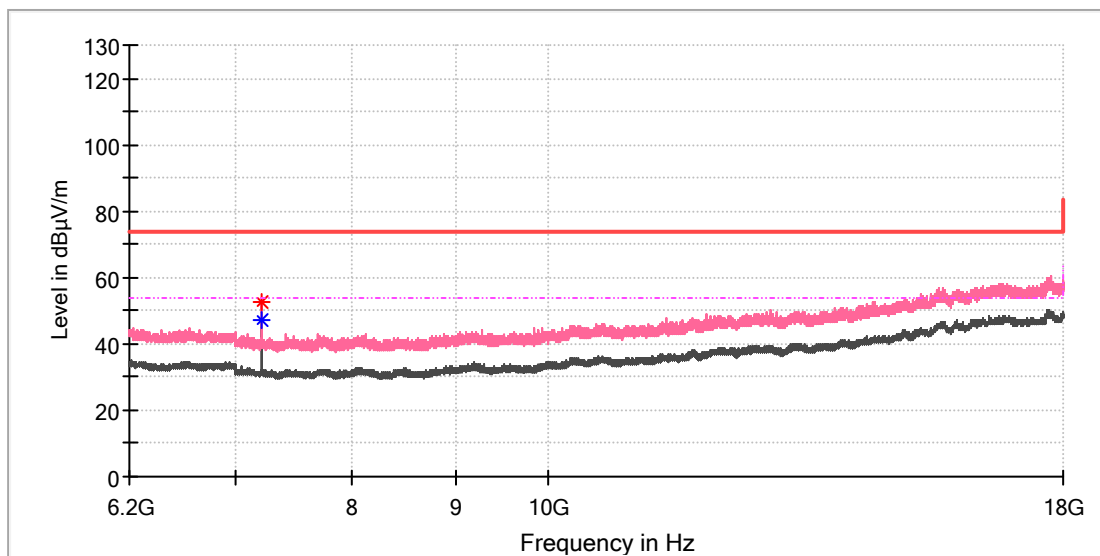


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7210.375000     | 53.65            | ---              | 74.00          | 20.35       | 100.0       | H   | 80.0          | 8.7          |
| 7210.375000     | ---              | 46.91            | 54.00          | 7.09        | 100.0       | H   | 80.0          | 8.7          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Low Channel                              |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

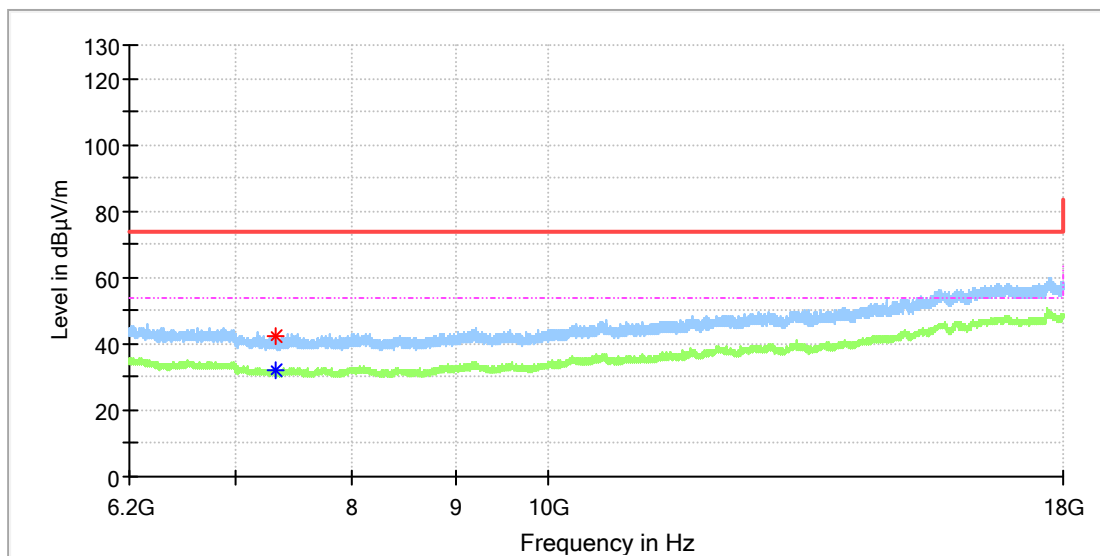


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7209.883333     | 52.41            | ---              | 74.00          | 21.59       | 100.0       | V   | 251.0         | 8.7          |
| 7210.375000     | ---              | 47.31            | 54.00          | 6.69        | 100.0       | V   | 251.0         | 8.7          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Middle Channel                           |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

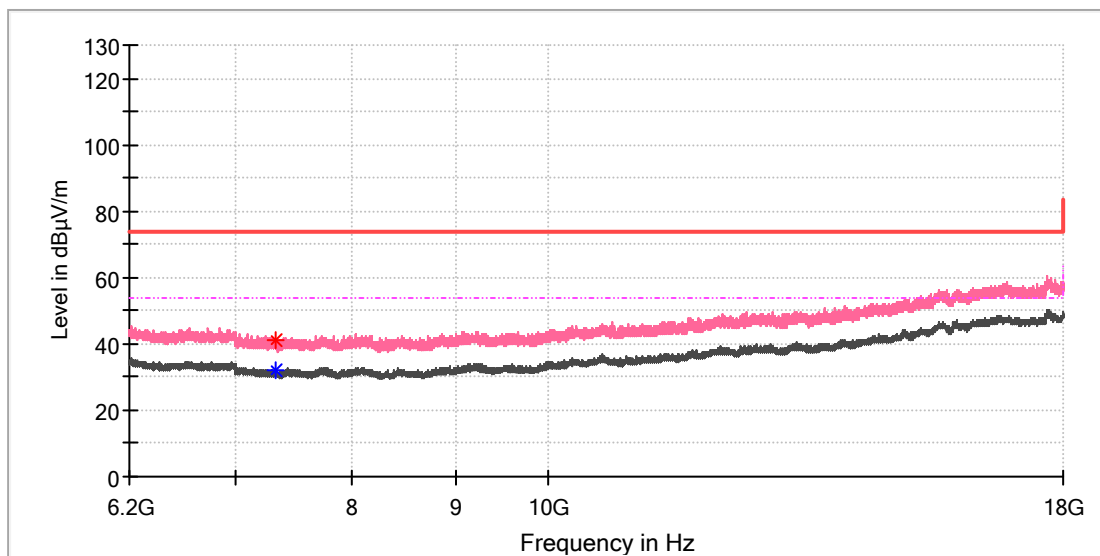


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7321.000000     | 42.21            | ---              | 74.00          | 31.79       | 100.0       | H   | 167.0         | 8.2          |
| 7333.783333     | ---              | 32.24            | 54.00          | 21.76       | 100.0       | H   | 224.0         | 8.1          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Middle Channel                           |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

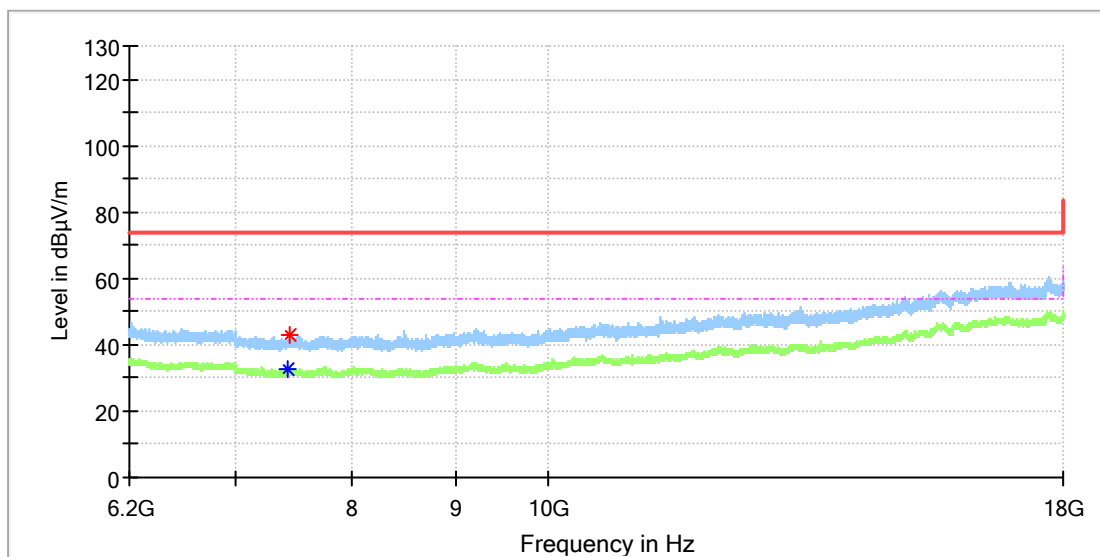


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7323.458333     | ---              | 31.86            | 54.00          | 22.14       | 100.0       | V   | 36.0          | 8.2          |
| 7329.358333     | 40.94            | ---              | 74.00          | 33.06       | 100.0       | V   | 9.0           | 8.1          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | High Channel                             |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

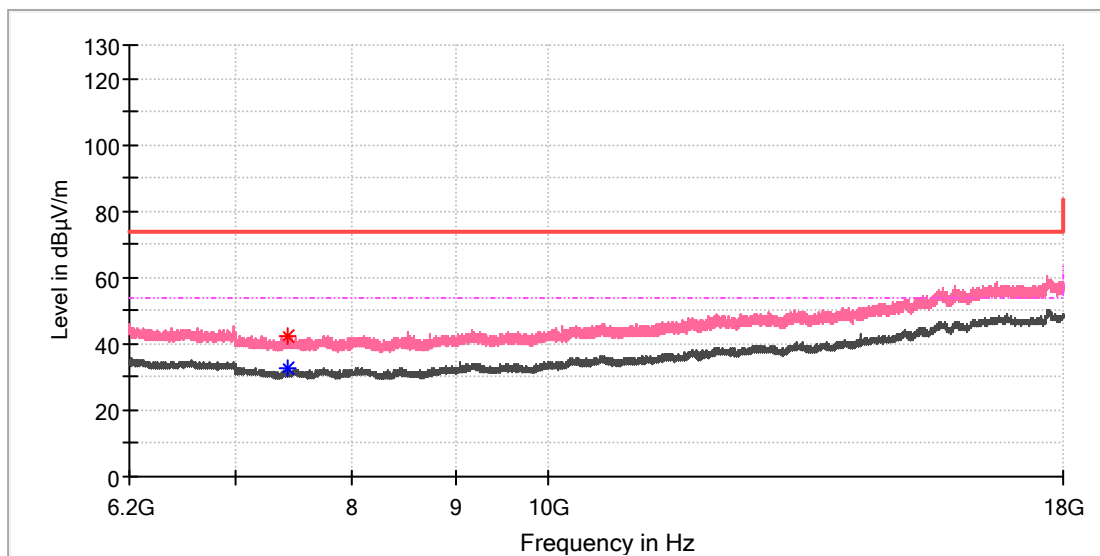


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7434.083333     | ---              | 32.56            | 54.00          | 21.44       | 100.0       | H   | 250.0         | 8.4          |
| 7443.916667     | 42.64            | ---              | 74.00          | 31.36       | 100.0       | H   | 291.0         | 8.5          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | High Channel                             |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |



## Critical\_Freqs

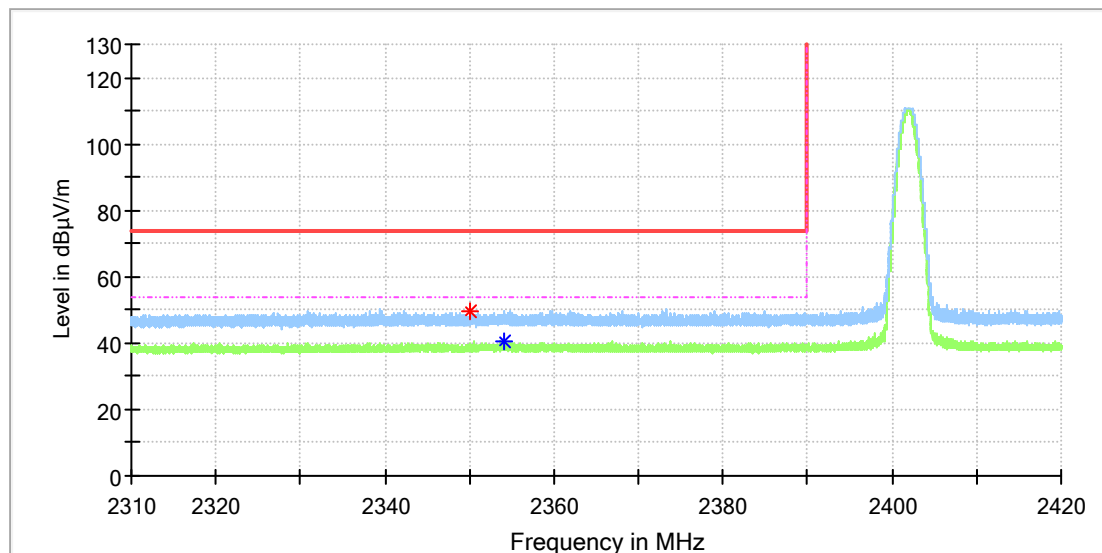
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7432.608333     | ---              | 32.94            | 54.00          | 21.06       | 100.0       | V   | 295.0         | 8.4          |
| 7434.083333     | 42.20            | ---              | 74.00          | 31.80       | 100.0       | V   | 41.0          | 8.4          |

## Appendix B.5: Test Results of Radiated Emissions in Restricted Bands

Data Rate, 1Mbps

### EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Low Channel                              |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

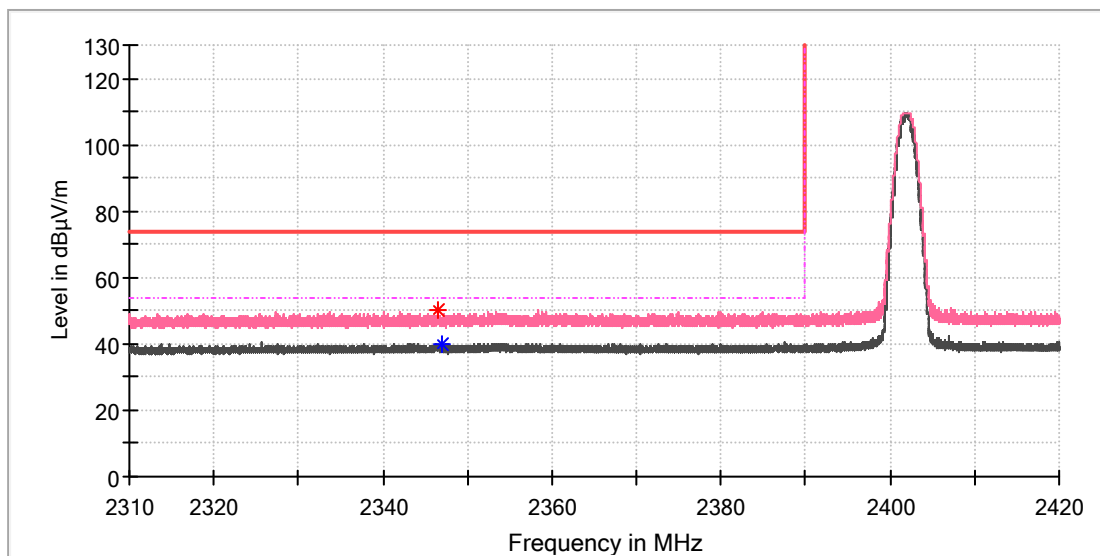


### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2350.117000     | 49.62            | ---              | 74.00          | 24.38       | 100.0       | H   | 185.0         | 6.9          |
| 2354.055000     | ---              | 40.34            | 54.00          | 13.66       | 100.0       | H   | 266.0         | 6.9          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Low Channel                              |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

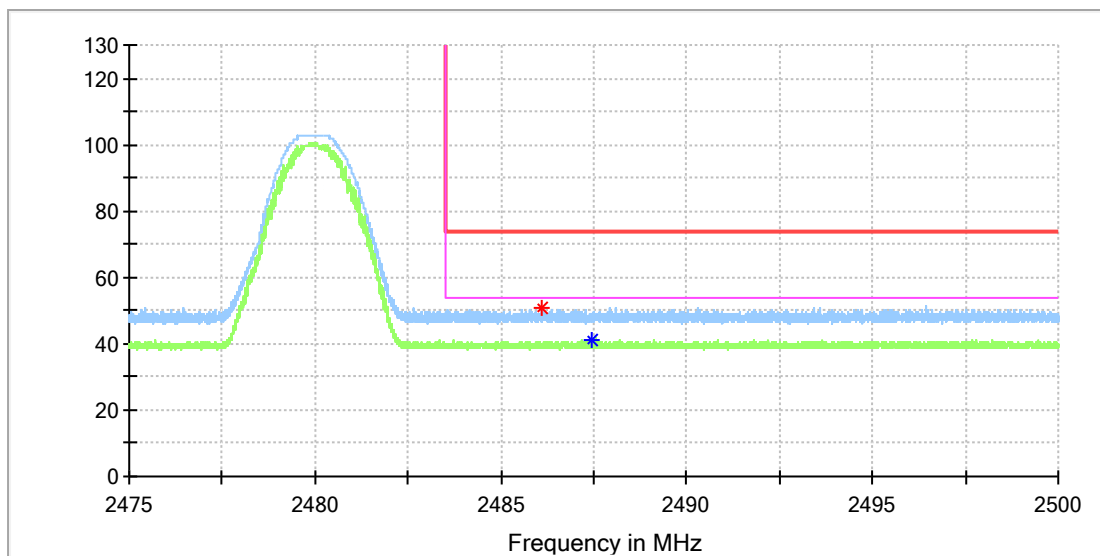


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2346.608000     | 50.28            | ---              | 74.00          | 23.72       | 100.0       | V   | 254.0         | 6.9          |
| 2346.965500     | ---              | 39.87            | 54.00          | 14.13       | 100.0       | V   | 335.0         | 6.9          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | High Channel                             |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

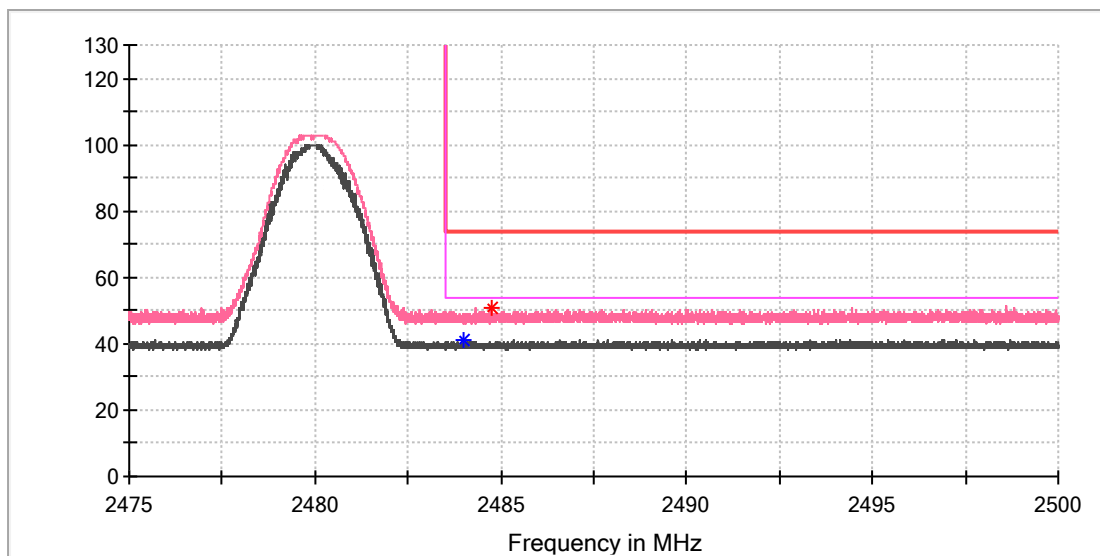


## Critical Freqs

| Frequency (MHz) | MaxPeak (dBm/m) | Average (dBm/m) | Limit (dBm/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|-----------------|-----------------|---------------|-------------|-------------|-----|---------------|--------------|
| 2486.089250     | 50.68           | ---             | 74.00         | 23.32       | 100.0       | H   | 98.0          | 7.4          |
| 2487.471750     | ---             | 41.26           | 54.00         | 12.74       | 100.0       | H   | 77.0          | 7.4          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | High Channel                             |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

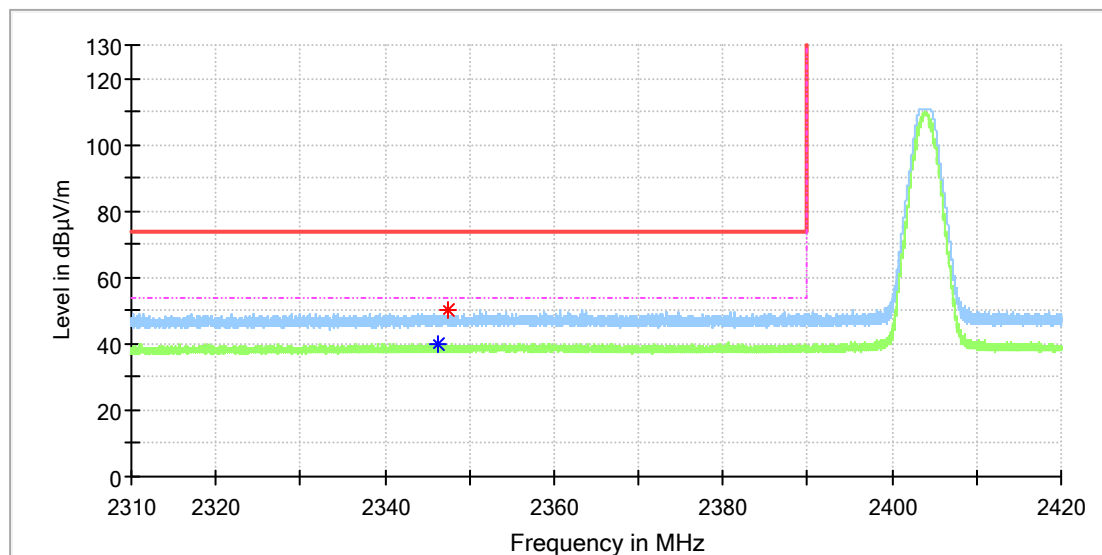


## Critical Freqs

| Frequency (MHz) | MaxPeak (dBm/MHz) | Average (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/MHz) |
|-----------------|-------------------|-------------------|-----------------|-------------|-------------|-----|---------------|----------------|
| 2484.001500     | ---               | 41.21             | 54.00           | 12.79       | 100.0       | V   | 233.0         | 7.4            |
| 2484.747000     | 50.87             | ---               | 74.00           | 23.13       | 100.0       | V   | 104.0         | 7.4            |

**Data Rate, 2Mbps****EUT Information**

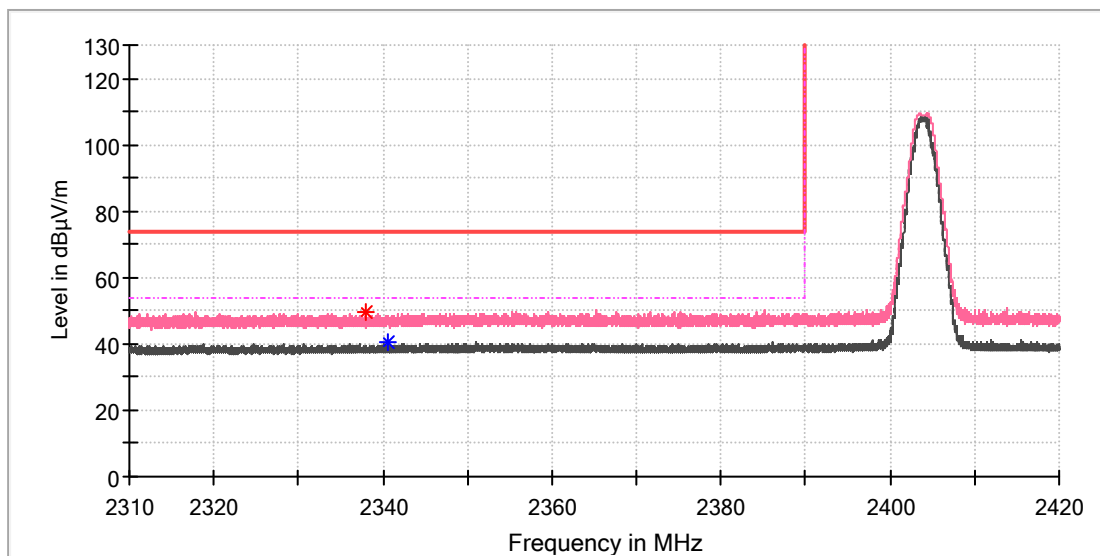
|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Low Channel                              |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

**Critical Freqs**

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2346.267000     | ---              | 40.01            | 54.00          | 13.99       | 100.0       | H   | 120.0         | 6.9          |
| 2347.488000     | 49.98            | ---              | 74.00          | 24.02       | 100.0       | H   | 36.0          | 6.9          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | Low Channel                              |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

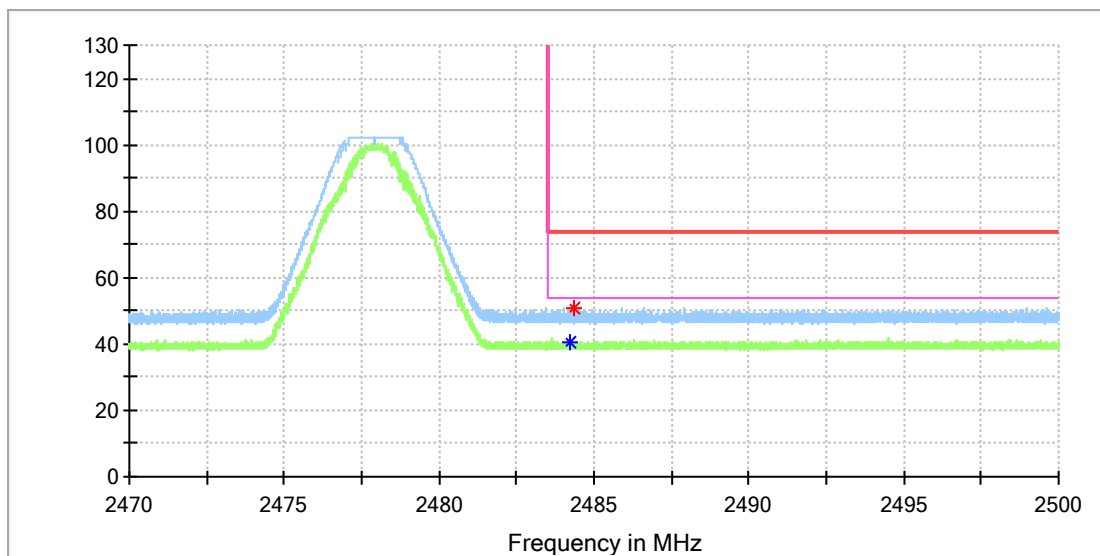


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2337.896000     | 49.64            | ---              | 74.00          | 24.36       | 100.0       | V   | 188.0         | 6.8          |
| 2340.519500     | ---              | 40.22            | 54.00          | 13.78       | 100.0       | V   | 212.0         | 6.8          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | High Channel                             |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |

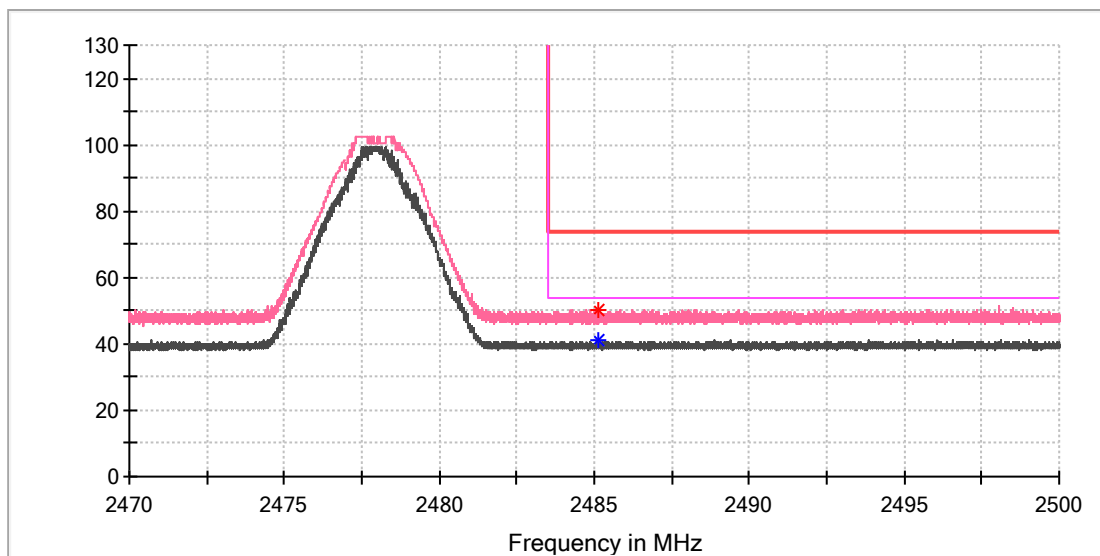


## Critical Freqs

| Frequency (MHz) | MaxPeak (dB <sub>μV/m</sub> ) | Average (dB <sub>μV/m</sub> ) | Limit (dB <sub>μV/m</sub> ) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|-------------------------------|-------------------------------|-----------------------------|-------------|-------------|-----|---------------|--------------|
| 2484.232500     | ---                           | 40.80                         | 54.00                       | 13.20       | 100.0       | H   | 278.0         | 7.4          |
| 2484.348000     | 50.96                         | ---                           | 74.00                       | 23.04       | 100.0       | H   | 130.0         | 7.4          |

## EUT Information

|                     |                                          |
|---------------------|------------------------------------------|
| EUT Name:           | 2.4GHz Digital Wireless Stereo Headphone |
| Model:              | NS-HAWHP2                                |
| Test Mode:          | High Channel                             |
| Order No/Sample No: | 168343239/A003163351-002                 |
| Test Voltage::      | Battery                                  |
| Remark:             | Temp 24 Humi:50%                         |
| Test Standard:      | FCC 15.247                               |
| Tested By:          | Kei Zhang                                |
| Reviewed By:        | Terry Yin                                |



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBm/m) | Average (dBm/m) | Limit (dBm/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|-----------------|-----------------|---------------|-------------|-------------|-----|---------------|--------------|
| 2485.114500     | 50.34           | ---             | 74.00         | 23.66       | 100.0       | V   | 328.0         | 7.4          |
| 2485.147750     | ---             | 40.99           | 54.00         | 13.01       | 100.0       | V   | 261.0         | 7.4          |