

# TEST REPORT

**Product Name** : Vehicle Audio System  
**Brand Mark** : N/A  
**Model No.** : R3000, R3500  
**FCC ID** : 2AFN3-R3000R3500  
**Report Number** : BLA-EMC-202103-A5802  
**Date of Sample Receipt** : 2021/3/17  
**Date of Test** : 2021/3/17 to 2021/5/12  
**Date of Issue** : 2021/6/7  
**Test Standard** : 47 CFR Part 15, Subpart C 15.247  
**Test Result** : Pass

Prepared for:

**AUDIO LINK.CO., LTD**

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Date:

2021/6/7



## REPORT REVISE RECORD

| Version No. | Date     | Description |
|-------------|----------|-------------|
| 00          | 2021/6/7 | Original    |

BlueAsia

**TABLE OF CONTENTS**

|          |                                                                   |           |
|----------|-------------------------------------------------------------------|-----------|
| <b>1</b> | <b>TEST SUMMARY .....</b>                                         | <b>5</b>  |
| <b>2</b> | <b>GENERAL INFORMATION .....</b>                                  | <b>6</b>  |
| <b>3</b> | <b>GENERAL DESCRIPTION OF E.U.T. ....</b>                         | <b>6</b>  |
| <b>4</b> | <b>TEST ENVIRONMENT .....</b>                                     | <b>7</b>  |
| <b>5</b> | <b>TEST MODE .....</b>                                            | <b>7</b>  |
| <b>6</b> | <b>MEASUREMENT UNCERTAINTY .....</b>                              | <b>7</b>  |
| <b>7</b> | <b>DESCRIPTION OF SUPPORT UNIT.....</b>                           | <b>8</b>  |
| <b>8</b> | <b>LABORATORY LOCATION.....</b>                                   | <b>8</b>  |
| <b>9</b> | <b>TEST INSTRUMENTS LIST .....</b>                                | <b>9</b>  |
| <b>1</b> | <b>CONDUCTED BAND EDGES MEASUREMENT.....</b>                      | <b>12</b> |
| 1.1      | LIMITS .....                                                      | 12        |
| 1.2      | BLOCK DIAGRAM OF TEST SETUP .....                                 | 12        |
| 1.3      | TEST DATA .....                                                   | 13        |
| <b>2</b> | <b>RADIATED SPURIOUS EMISSIONS.....</b>                           | <b>14</b> |
| 2.1      | LIMITS .....                                                      | 14        |
| 2.2      | BLOCK DIAGRAM OF TEST SETUP .....                                 | 15        |
| 2.3      | PROCEDURE .....                                                   | 15        |
| 2.4      | TEST DATA .....                                                   | 17        |
| <b>3</b> | <b>RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS.....</b> | <b>25</b> |
| 3.1      | LIMITS .....                                                      | 25        |
| 3.2      | BLOCK DIAGRAM OF TEST SETUP .....                                 | 26        |
| 3.3      | PROCEDURE .....                                                   | 26        |
| 3.4      | TEST DATA .....                                                   | 28        |
| <b>4</b> | <b>CONDUCTED SPURIOUS EMISSIONS .....</b>                         | <b>32</b> |
| 4.1      | LIMITS .....                                                      | 32        |
| 4.2      | BLOCK DIAGRAM OF TEST SETUP .....                                 | 32        |
| 4.3      | TEST DATA .....                                                   | 33        |
| <b>5</b> | <b>POWER SPECTRUM DENSITY.....</b>                                | <b>34</b> |
| 5.1      | LIMITS .....                                                      | 34        |
| 5.2      | BLOCK DIAGRAM OF TEST SETUP .....                                 | 34        |

|           |                                                    |           |
|-----------|----------------------------------------------------|-----------|
| 5.3       | TEST DATA .....                                    | 34        |
| <b>6</b>  | <b>CONDUCTED PEAK OUTPUT POWER .....</b>           | <b>35</b> |
| 6.1       | LIMITS .....                                       | 35        |
| 6.2       | BLOCK DIAGRAM OF TEST SETUP .....                  | 35        |
| 6.3       | EST DATA .....                                     | 36        |
| <b>7</b>  | <b>MINIMUM 6DB BANDWIDTH .....</b>                 | <b>37</b> |
| 7.1       | LIMITS .....                                       | 37        |
| 7.2       | BLOCK DIAGRAM OF TEST SETUP .....                  | 37        |
| 7.3       | TEST DATA .....                                    | 37        |
| <b>8</b>  | <b>ANTENNA REQUIREMENT .....</b>                   | <b>38</b> |
| 8.1       | CONCLUSION .....                                   | 38        |
| <b>10</b> | <b>APPENDIX.....</b>                               | <b>39</b> |
| 10.1      | APPENDIX A: DTS BANDWIDTH .....                    | 39        |
|           | <i>Test Result</i> .....                           | 39        |
|           | <i>Test Graphs</i> .....                           | 40        |
| 10.2      | APPENDIX B: OCCUPIED CHANNEL BANDWIDTH .....       | 42        |
|           | <i>Test Result</i> .....                           | 42        |
|           | <i>Test Graphs</i> .....                           | 43        |
| 10.3      | APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER .....   | 45        |
|           | <i>Test Result</i> .....                           | 45        |
|           | <i>Test Graphs</i> .....                           | 46        |
| 10.4      | APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY .....   | 48        |
|           | <i>Test Result</i> .....                           | 48        |
|           | <i>Test Graphs</i> .....                           | 49        |
| 10.5      | APPENDIX E: BAND EDGE MEASUREMENTS.....            | 51        |
|           | <i>Test Result</i> .....                           | 51        |
|           | <i>Test Graphs</i> .....                           | 52        |
| 10.6      | APPENDIX F: CONDUCTED SPURIOUS EMISSION .....      | 53        |
|           | <i>Test Result</i> .....                           | 53        |
|           | <i>Test Graphs</i> .....                           | 54        |
|           | <b>APPENDIX A: PHOTOGRAPHS OF TEST SETUP .....</b> | <b>59</b> |
|           | <b>APPENDIX B: PHOTOGRAPHS OF EUT .....</b>        | <b>60</b> |

## 1 TEST SUMMARY

| Test item                                             | Test Requirement                 | Test Method                                          | Class/Severity                               | Result |
|-------------------------------------------------------|----------------------------------|------------------------------------------------------|----------------------------------------------|--------|
| Conducted Band Edges Measurement                      | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2 | 47 CFR Part 15, Subpart C 15.247(d)          | Pass   |
| Radiated Spurious Emissions                           | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.4,6.5,6.6               | 47 CFR Part 15, Subpart C 15.209 & 15.247(d) | Pass   |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.10.5                    | 47 CFR Part 15, Subpart C 15.209 & 15.247(d) | Pass   |
| Conducted Spurious Emissions                          | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.6 & Section 11.11     | 47 CFR Part 15, Subpart C 15.247(d)          | Pass   |
| Power Spectrum Density                                | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 11.10.2                   | 47 CFR Part 15, Subpart C 15.247(e)          | Pass   |
| Conducted Peak Output Power                           | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.5                     | 47 CFR Part 15, Subpart C 15.247(b)(3)       | Pass   |
| Minimum 6dB Bandwidth                                 | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 11.8.1                    | 47 CFR Part 15, Subpart C 15.247a(2)         | Pass   |
| Antenna Requirement                                   | 47 CFR Part 15, Subpart C 15.247 | N/A                                                  | 47 CFR Part 15, Subpart C 15.203 & 15.247(c) | Pass   |

## 2 GENERAL INFORMATION

|                       |                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant</b>      | AUDIO LINK.CO., LTD                                                                                                                   |
| <b>Address</b>        | #101-1207. CHUNUI TECHNO PARK. 198-36 BUCHEON ROAD.WONMI-GU. BUCHEON CITY.GYEONGGI-DO. KOREA<br>BUCHEON CITY.GYEONGGI-DO. South Korea |
| <b>Manufacturer</b>   | Audio Link Co., Ltd                                                                                                                   |
| <b>Address</b>        | #101-1207 CHUNUI TECHNO PARK 198-36 BUCHEON RD. WONMI-GU BUCHEON, GYEONGGI, KOREA                                                     |
| <b>Factory</b>        | /                                                                                                                                     |
| <b>Address</b>        | /                                                                                                                                     |
| <b>Product Name</b>   | Vehicle Audio System                                                                                                                  |
| <b>Test Model No.</b> | R3000                                                                                                                                 |

## 3 GENERAL DESCRIPTION OF E.U.T.

|                             |                                 |
|-----------------------------|---------------------------------|
| <b>Hardware Version</b>     | N/A                             |
| <b>Software Version</b>     | N/A                             |
| <b>Operation Frequency:</b> | 2402MHz-2480MHz                 |
| <b>Modulation Type:</b>     | GFSK                            |
| <b>Channel Spacing:</b>     | 2MHz                            |
| <b>Number of Channels:</b>  | 40                              |
| <b>Antenna Type:</b>        | PCB Antenna                     |
| <b>Antenna Gain:</b>        | 0dBi(Provided by the applicant) |

#### 4 TEST ENVIRONMENT

| Environment | Temperature | Voltage |
|-------------|-------------|---------|
| Normal      | 25°C        | DC12V   |

#### 5 TEST MODE

| TEST MODE                                                                 | TEST MODE DESCRIPTION             |
|---------------------------------------------------------------------------|-----------------------------------|
| TX                                                                        | Keep the EUT in transmitting mode |
| Remark: Only the data of the worst mode would be recorded in this report. |                                   |

#### 6 MEASUREMENT UNCERTAINTY

| Parameter                                      | Expanded Uncertainty (Confidence of 95%) |
|------------------------------------------------|------------------------------------------|
| Radiated Emission(9kHz-30MHz)                  | ±4.34dB                                  |
| Radiated Emission(30Mz-1000MHz)                | ±4.24dB                                  |
| Radiated Emission(1GHz-18GHz)                  | ±4.68dB                                  |
| AC Power Line Conducted Emission(150kHz-30MHz) | ±3.45dB                                  |

## 7 DESCRIPTION OF SUPPORT UNIT

| Device Type | Manufacturer | Model Name | Serial No. | Remark |
|-------------|--------------|------------|------------|--------|
| PC          | HASEE        | K610D      | --         | --     |

**Note:**

--" means no any support device during testing.

## 8 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.

## 9 TEST INSTRUMENTS LIST

| Test Equipment Of Conducted Band Edges Measurement |              |        |            |            |            |
|----------------------------------------------------|--------------|--------|------------|------------|------------|
| Equipment                                          | Manufacturer | Model  | S/N        | Cal.Date   | Cal.Due    |
| Spectrum                                           | R&S          | FSP40  | 100817     | 2020/10/12 | 2021/10/11 |
| Spectrum                                           | Agilent      | N9020A | MY49100060 | 2020/10/12 | 2021/10/11 |
| Signal Generator                                   | Agilent      | N5182A | MY49060650 | 2020/10/12 | 2021/10/11 |
| Signal Generator                                   | Agilent      | E8257D | MY44320250 | 2020/10/12 | 2021/10/11 |

| Test Equipment Of Radiated Spurious Emissions |              |               |                  |            |            |
|-----------------------------------------------|--------------|---------------|------------------|------------|------------|
| Equipment                                     | Manufacturer | Model         | S/N              | Cal.Date   | Cal.Due    |
| Chamber                                       | SKET         | 966           | N/A              | 2020/11/10 | 2023/11/9  |
| Spectrum                                      | R&S          | FSP40         | 100817           | 2020/10/12 | 2021/10/11 |
| Receiver                                      | R&S          | ESR7          | 101199           | 2020/10/12 | 2021/10/11 |
| broadband Antenna                             | Schwarzbeck  | VULB9168      | 00836<br>P:00227 | 2020/9/26  | 2022/9/25  |
| Horn Antenna                                  | Schwarzbeck  | 9120D         | 01892<br>P:00331 | 2020/9/26  | 2022/9/25  |
| Amplifier                                     | SKET         | PA-000318G-45 | N/A              | 2020/10/16 | 2021/10/15 |
| EMI software                                  | EZ           | EZ-EMC        | EEMC-3A1         | N/A        | N/A        |
| Loop antenna                                  | SCHNARZBECK  | FMZB1519B     | 00102            | 2020/9/26  | 2022/9/25  |
| Controller                                    | SKET         | N/A           | N/A              | N/A        | N/A        |
| Coaxial Cable                                 | BlueAsia     | BLA-XC-02     | N/A              | N/A        | N/A        |
| Coaxial Cable                                 | BlueAsia     | BLA-XC-03     | N/A              | N/A        | N/A        |
| Coaxial Cable                                 | BlueAsia     | BLA-XC-01     | N/A              | N/A        | N/A        |

| Test Equipment Of Radiated Emissions which fall in the restricted bands |              |       |     |          |         |
|-------------------------------------------------------------------------|--------------|-------|-----|----------|---------|
| Equipment                                                               | Manufacturer | Model | S/N | Cal.Date | Cal.Due |

|                   |             |               |                  |            |            |
|-------------------|-------------|---------------|------------------|------------|------------|
| Chamber           | SKET        | 966           | N/A              | 2020/11/10 | 2023/11/9  |
| Spectrum          | R&S         | FSP40         | 100817           | 2020/10/12 | 2021/10/11 |
| Receiver          | R&S         | ESR7          | 101199           | 2020/10/12 | 2021/10/11 |
| broadband Antenna | Schwarzbeck | VULB9168      | 00836<br>P:00227 | 2020/9/26  | 2022/9/25  |
| Horn Antenna      | Schwarzbeck | 9120D         | 01892<br>P:00331 | 2020/9/26  | 2022/9/25  |
| Amplifier         | SKET        | PA-000318G-45 | N/A              | 2020/10/16 | 2021/10/15 |
| EMI software      | EZ          | EZ-EMC        | EEMC-3A1         | N/A        | N/A        |
| Loop antenna      | SCHNARZBECK | FMZB1519B     | 00102            | 2020/9/26  | 2022/9/25  |
| Controller        | SKET        | N/A           | N/A              | N/A        | N/A        |
| Coaxial Cable     | BlueAsia    | BLA-XC-02     | N/A              | N/A        | N/A        |
| Coaxial Cable     | BlueAsia    | BLA-XC-03     | N/A              | N/A        | N/A        |
| Coaxial Cable     | BlueAsia    | BLA-XC-01     | N/A              | N/A        | N/A        |

#### Test Equipment Of Conducted Spurious Emissions

| Equipment        | Manufacturer | Model  | S/N        | Cal.Date   | Cal.Due    |
|------------------|--------------|--------|------------|------------|------------|
| Spectrum         | R&S          | FSP40  | 100817     | 2020/10/12 | 2021/10/11 |
| Spectrum         | Agilent      | N9020A | MY49100060 | 2020/10/12 | 2021/10/11 |
| Signal Generator | Agilent      | N5182A | MY49060650 | 2020/10/12 | 2021/10/11 |
| Signal Generator | Agilent      | E8257D | MY44320250 | 2020/10/12 | 2021/10/11 |

#### Test Equipment Of Power Spectrum Density

| Equipment | Manufacturer | Model  | S/N        | Cal.Date   | Cal.Due    |
|-----------|--------------|--------|------------|------------|------------|
| Spectrum  | R&S          | FSP40  | 100817     | 2020/10/12 | 2021/10/11 |
| Spectrum  | Agilent      | N9020A | MY49100060 | 2020/10/12 | 2021/10/11 |

|                  |         |        |            |            |            |
|------------------|---------|--------|------------|------------|------------|
| Signal Generator | Agilent | N5182A | MY49060650 | 2020/10/12 | 2021/10/11 |
| Signal Generator | Agilent | E8257D | MY44320250 | 2020/10/12 | 2021/10/11 |

**Test Equipment Of Conducted Peak Output Power**

| Equipment        | Manufacturer | Model  | S/N        | Cal.Date   | Cal.Due    |
|------------------|--------------|--------|------------|------------|------------|
| Spectrum         | R&S          | FSP40  | 100817     | 2020/10/12 | 2021/10/11 |
| Spectrum         | Agilent      | N9020A | MY49100060 | 2020/10/12 | 2021/10/11 |
| Signal Generator | Agilent      | N5182A | MY49060650 | 2020/10/12 | 2021/10/11 |
| Signal Generator | Agilent      | E8257D | MY44320250 | 2020/10/12 | 2021/10/11 |

**Test Equipment Of Minimum 6dB Bandwidth**

| Equipment        | Manufacturer | Model  | S/N        | Cal.Date   | Cal.Due    |
|------------------|--------------|--------|------------|------------|------------|
| Spectrum         | R&S          | FSP40  | 100817     | 2020/10/12 | 2021/10/11 |
| Spectrum         | Agilent      | N9020A | MY49100060 | 2020/10/12 | 2021/10/11 |
| Signal Generator | Agilent      | N5182A | MY49060650 | 2020/10/12 | 2021/10/11 |
| Signal Generator | Agilent      | E8257D | MY44320250 | 2020/10/12 | 2021/10/11 |

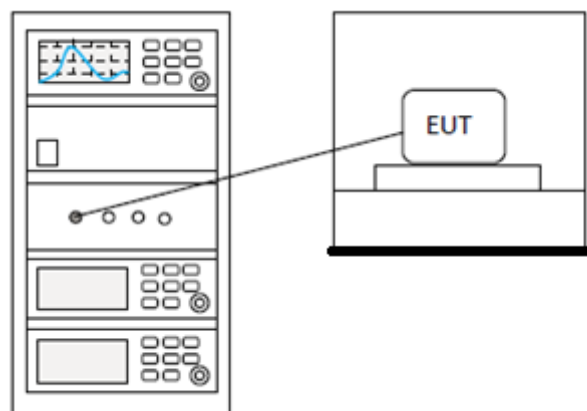
## 1 CONDUCTED BAND EDGES MEASUREMENT

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247                     |
| <b>Test Method</b>            | ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2 |
| <b>Test Mode (Pre-Scan)</b>   | TX                                                   |
| <b>Test Mode (Final Test)</b> | TX                                                   |
| <b>Tester</b>                 | Jozu                                                 |
| <b>Temperature</b>            | 25°C                                                 |
| <b>Humidity</b>               | 60%                                                  |

### 1.1 LIMITS

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Limit:</b> | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 1.2 BLOCK DIAGRAM OF TEST SETUP



### 1.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

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## 2 RADIATED SPURIOUS EMISSIONS

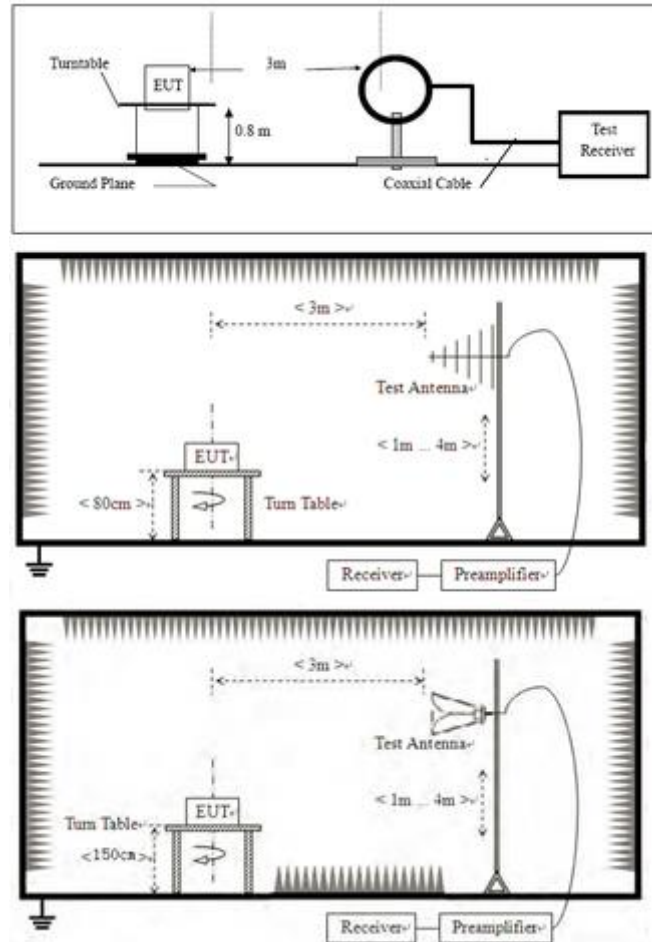
|                               |                                        |
|-------------------------------|----------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247       |
| <b>Test Method</b>            | ANSI C63.10 (2013) Section 6.4,6.5,6.6 |
| <b>Test Mode (Pre-Scan)</b>   | TX                                     |
| <b>Test Mode (Final Test)</b> | TX                                     |
| <b>Tester</b>                 | Jozu                                   |
| <b>Temperature</b>            | 25℃                                    |
| <b>Humidity</b>               | 60%                                    |

### 2.1 LIMITS

| <b>Frequency(MHz)</b> | <b>Field strength(microvolts/meter)</b> | <b>Measurement distance(meters)</b> |
|-----------------------|-----------------------------------------|-------------------------------------|
| 0.009-0.490           | 2400/F(kHz)                             | 300                                 |
| 0.490-1.705           | 24000/F(kHz)                            | 30                                  |
| 1.705-30.0            | 30                                      | 30                                  |
| 30-88                 | 100                                     | 3                                   |
| 88-216                | 150                                     | 3                                   |
| 216-960               | 200                                     | 3                                   |
| Above 960             | 500                                     | 3                                   |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

## 2.2 BLOCK DIAGRAM OF TEST SETUP



## 2.3 PROCEDURE

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

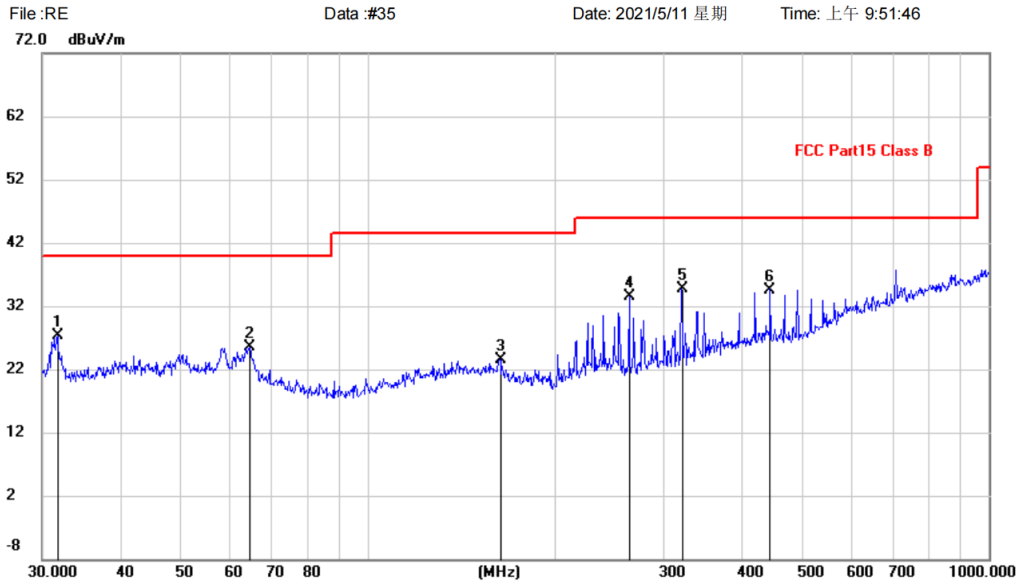
Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. fundamental frequency is blocked by filter, and only spurious emission is shown.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

## 2.4 TEST DATA

[TestMode: TX]; [Polarity: Horizontal]

### Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature:  
Limit: FCC Part15 Class B Power: Humidity: %  
EUT: Vehicle Audio System Distance: 3m  
M/N: R3500  
Mode: BLE-mode  
Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 31.7313  | 4.98          | 22.32          | 27.30       | 40.00  | -12.70 | QP             |              |         |
| 2   |     | 64.6594  | 3.07          | 22.46          | 25.53       | 40.00  | -14.47 | QP             |              |         |
| 3   |     | 163.1818 | 0.68          | 22.89          | 23.57       | 43.50  | -19.93 | QP             |              |         |
| 4   |     | 263.8190 | 10.60         | 22.93          | 33.53       | 46.00  | -12.47 | QP             |              |         |
| 5   | *   | 319.9370 | 10.03         | 24.63          | 34.66       | 46.00  | -11.34 | QP             |              |         |
| 6   |     | 444.8514 | 6.63          | 27.97          | 34.60       | 46.00  | -11.40 | QP             |              |         |

\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: TX]; [Polarity: Vertical]

### Radiated Emission Measurement

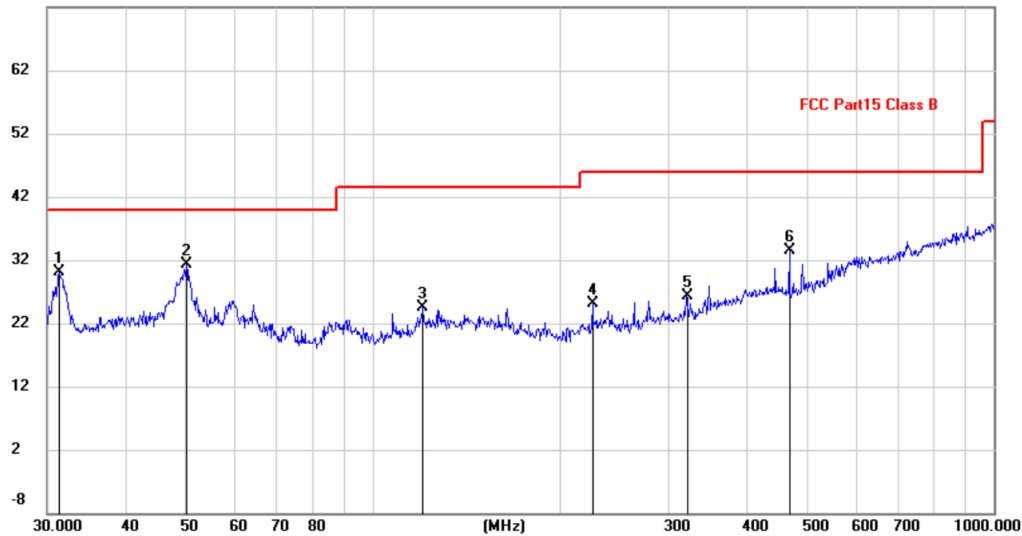
File : RE

Data : #36

Date: 2021/5/11 星期

Time: 上午 9:53:52

72.0 dBuV/m



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 Class B

Power:

Humidity: %

EUT: Vehicle Audio System

Distance: 3m

M/N: R3500

Mode: BLE-mode

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   |     | 31.3992  | 7.90          | 22.22          | 30.12       | 40.00  | -9.88  | QP             |              |        |
| 2   | *   | 50.2324  | 7.51          | 23.77          | 31.28       | 40.00  | -8.72  | QP             |              |        |
| 3   |     | 120.6991 | 1.85          | 22.61          | 24.46       | 43.50  | -19.04 | QP             |              |        |
| 4   |     | 226.0994 | 2.90          | 22.20          | 25.10       | 46.00  | -20.90 | QP             |              |        |
| 5   |     | 319.9370 | 1.66          | 24.63          | 26.29       | 46.00  | -19.71 | QP             |              |        |
| 6   |     | 468.8762 | 5.32          | 28.13          | 33.45       | 46.00  | -12.55 | QP             |              |        |

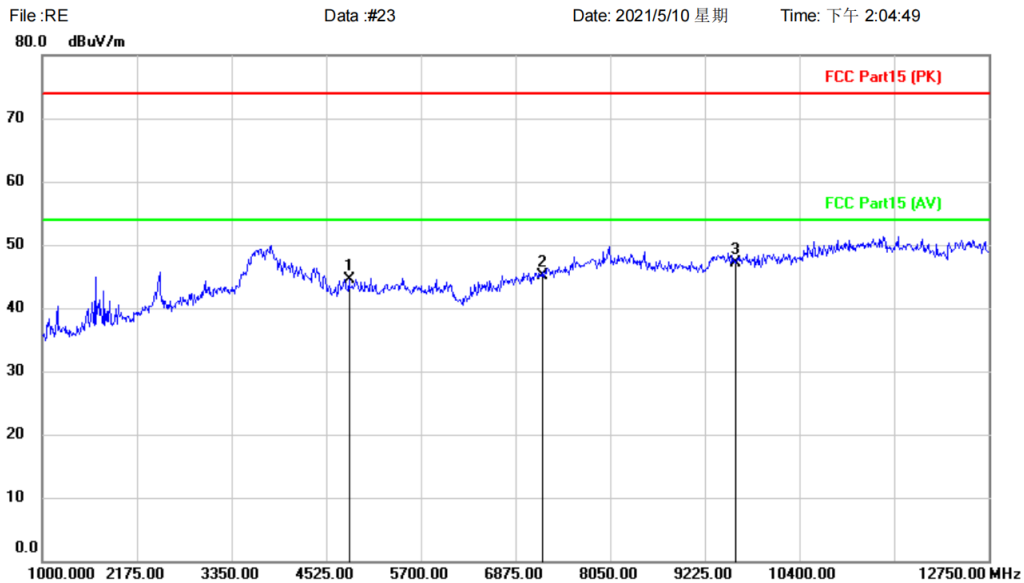
\*:Maximum data x:Over limit !:over margin

&lt;Reference Only

**Test Result: Pass**

[TestMode: TX lowest channel]; [Polarity: Horizontal]

### Radiated Emission Measurement



Site Limit: FCC Part15 (PK) Polarization: **Horizontal** Temperature:  
EUT: Vehicle Audio System Power: Humidity: %  
M/N: R3500 Distance: 3m  
Mode: BLE-TX-L  
Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|---------|
| 1   |     | 4804.000     | 40.78                    | 3.71                    | 44.49                      | 74.00           | -29.51     | peak                    |                 |         |
| 2   |     | 7206.000     | 39.23                    | 5.96                    | 45.19                      | 74.00           | -28.81     | peak                    |                 |         |
| 3   | *   | 9608.000     | 37.80                    | 9.29                    | 47.09                      | 74.00           | -26.91     | peak                    |                 |         |

\*:Maximum data x:Over limit !:over margin

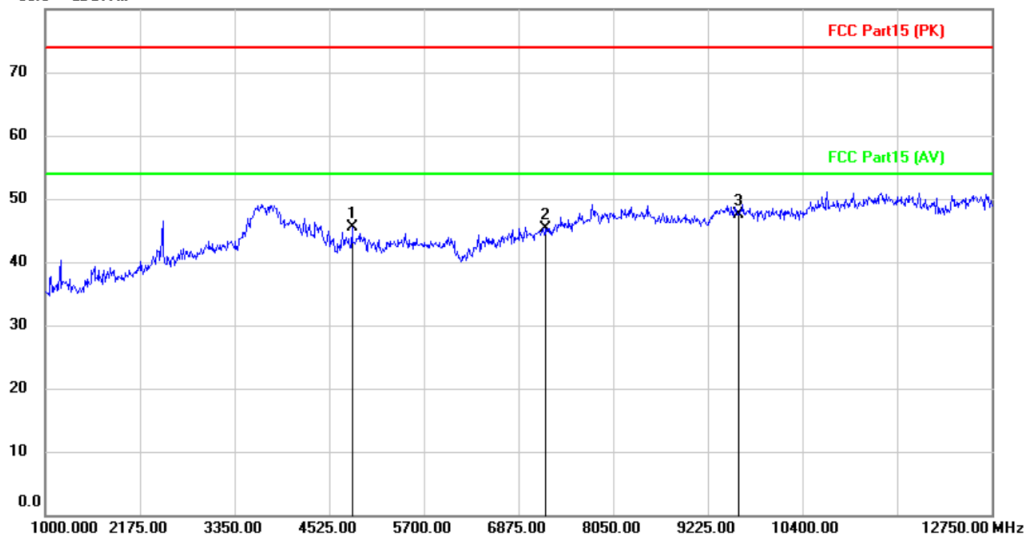
〈Reference Only

**Test Result: Pass**

[TestMode: TX lowest channel]; [Polarity: Vertical]

### Radiated Emission Measurement

File : RE Data : #24 Date: 2021/5/10 星期 Time: 下午 2:06:00  
80.0 dBuV/m



Site Limit: FCC Part15 (PK) Polarization: **Vertical** Temperature:  
EUT: Vehicle Audio System Power: Humidity: %  
M/N: R3500 Distance: 3m  
Mode: BLE-TX-L  
Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|---------|
| 1   |     | 4804.000     | 41.78                    | 3.71                    | 45.49                      | 74.00           | -28.51     | peak                    |                 |         |
| 2   |     | 7206.000     | 39.44                    | 5.96                    | 45.40                      | 74.00           | -28.60     | peak                    |                 |         |
| 3   | *   | 9608.000     | 38.12                    | 9.29                    | 47.41                      | 74.00           | -26.59     | peak                    |                 |         |

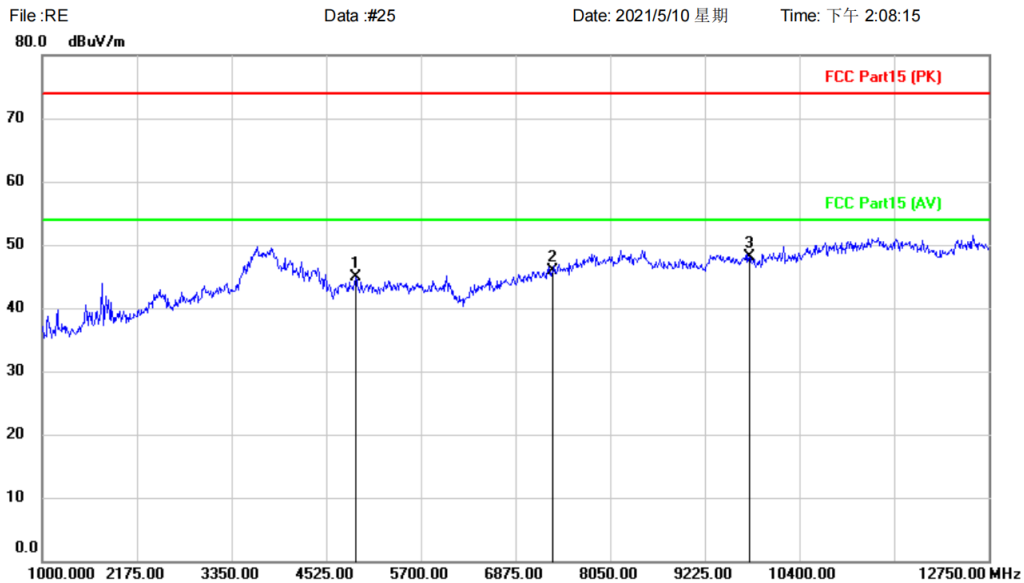
\*:Maximum data x:Over limit !:over margin

〈Reference Only

**Test Result: Pass**

[TestMode: TX Middle channel]; [Polarity: Horizontal]

### Radiated Emission Measurement



Site Limit: FCC Part15 (PK) Polarization: **Horizontal** Temperature:  
EUT: Vehicle Audio System Power: Humidity: %  
M/N: R3500 Distance: 3m  
Mode: BLE-TX-M  
Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|---------|
| 1   |     | 4884.000     | 41.53                    | 3.34                    | 44.87                      | 74.00           | -29.13     | peak                    |                 |         |
| 2   |     | 7326.000     | 39.42                    | 6.44                    | 45.86                      | 74.00           | -28.14     | peak                    |                 |         |
| 3   | *   | 9768.000     | 38.38                    | 9.63                    | 48.01                      | 74.00           | -25.99     | peak                    |                 |         |

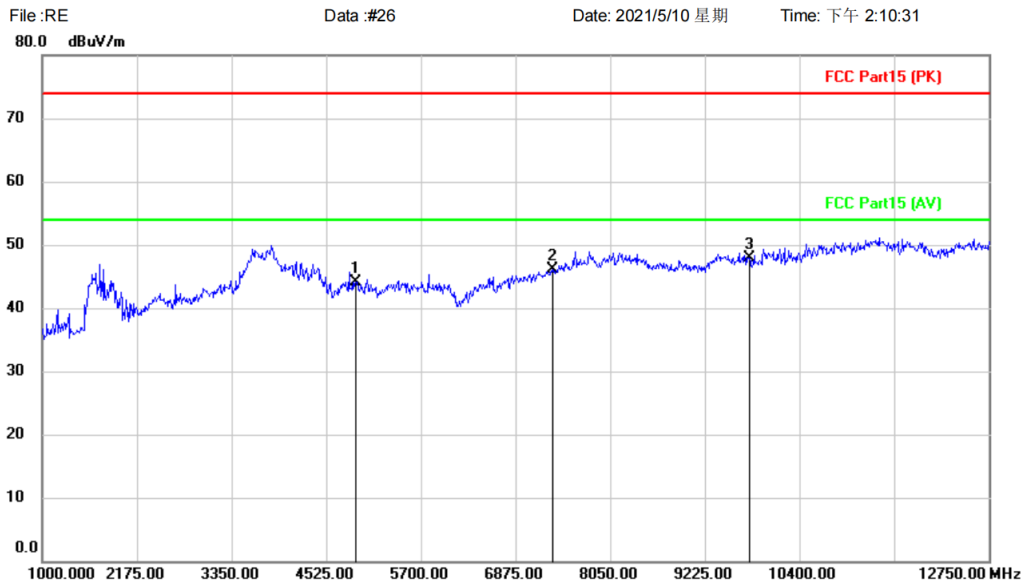
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: TX Middle channel]; [Polarity: Vertical]

### Radiated Emission Measurement



Site Limit: FCC Part15 (PK) Polarization: **Vertical** Temperature:  
EUT: Vehicle Audio System Power: Humidity: %  
M/N: R3500 Distance: 3m  
Mode: BLE-TX-M  
Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|---------|
| 1   |     | 4884.000     | 40.82                    | 3.34                    | 44.16                      | 74.00           | -29.84     | peak                    |                 |         |
| 2   |     | 7326.000     | 39.58                    | 6.44                    | 46.02                      | 74.00           | -27.98     | peak                    |                 |         |
| 3   | *   | 9768.000     | 38.34                    | 9.63                    | 47.97                      | 74.00           | -26.03     | peak                    |                 |         |

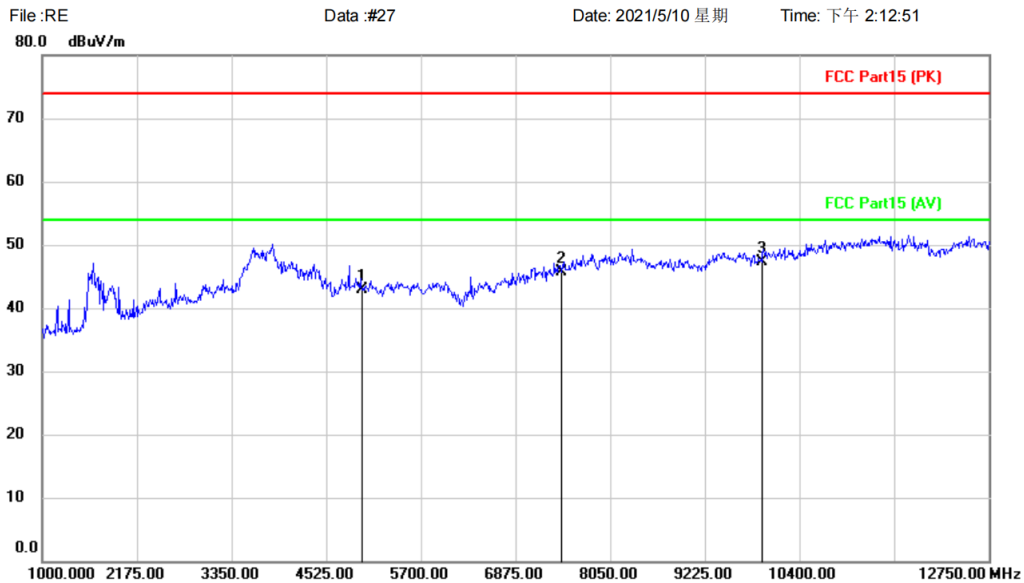
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: TX highest channel]; [Polarity: Vertical]

### Radiated Emission Measurement



Site Limit: FCC Part15 (PK) Polarization: **Vertical** Temperature:  
EUT: Vehicle Audio System Power: Humidity: %  
M/N: R3500 Distance: 3m  
Mode: BLE-TX-H  
Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|---------|
| 1   |     | 4960.000     | 39.18                    | 3.75                    | 42.93                      | 74.00           | -31.07     | peak                    |                 |         |
| 2   |     | 7440.000     | 38.84                    | 6.86                    | 45.70                      | 74.00           | -28.30     | peak                    |                 |         |
| 3   | *   | 9920.000     | 37.15                    | 10.16                   | 47.31                      | 74.00           | -26.69     | peak                    |                 |         |

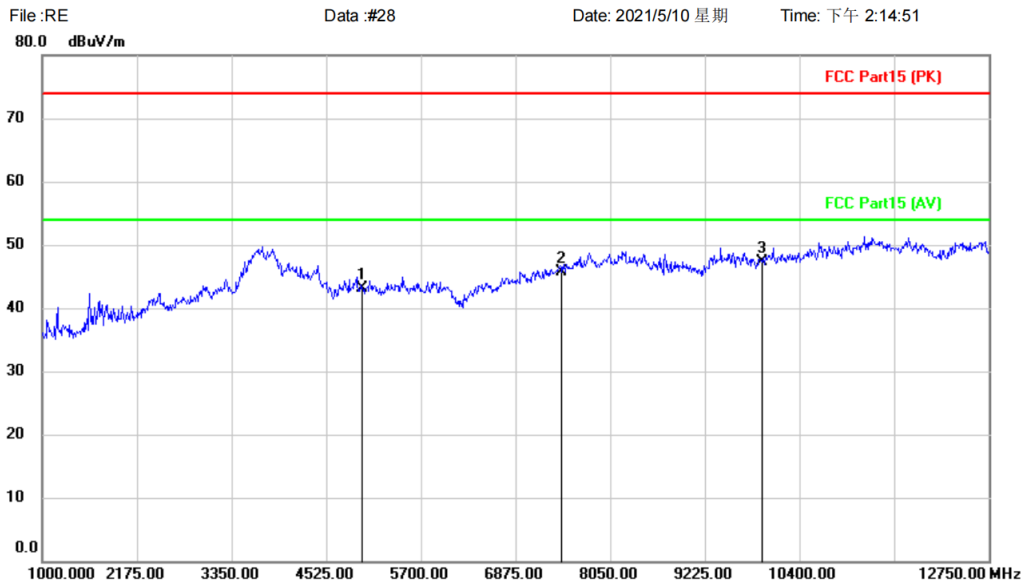
\*:Maximum data x:Over limit !:over margin

〈Reference Only

**Test Result: Pass**

[TestMode: TX highest channel]; [Polarity: Horizontal]

### Radiated Emission Measurement



Site Limit: FCC Part15 (PK) Polarization: **Horizontal** Temperature:   
EUT: Vehicle Audio System Power: Humidity: %   
M/N: R3500 Distance: 3m   
Mode: BLE-TX-H   
Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|---------|
| 1   |     | 4960.000     | 39.36                    | 3.75                    | 43.11                      | 74.00           | -30.89     | peak                    |                 |         |
| 2   |     | 7440.000     | 38.84                    | 6.86                    | 45.70                      | 74.00           | -28.30     | peak                    |                 |         |
| 3   | *   | 9920.000     | 37.06                    | 10.16                   | 47.22                      | 74.00           | -26.78     | peak                    |                 |         |

\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

### 3 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

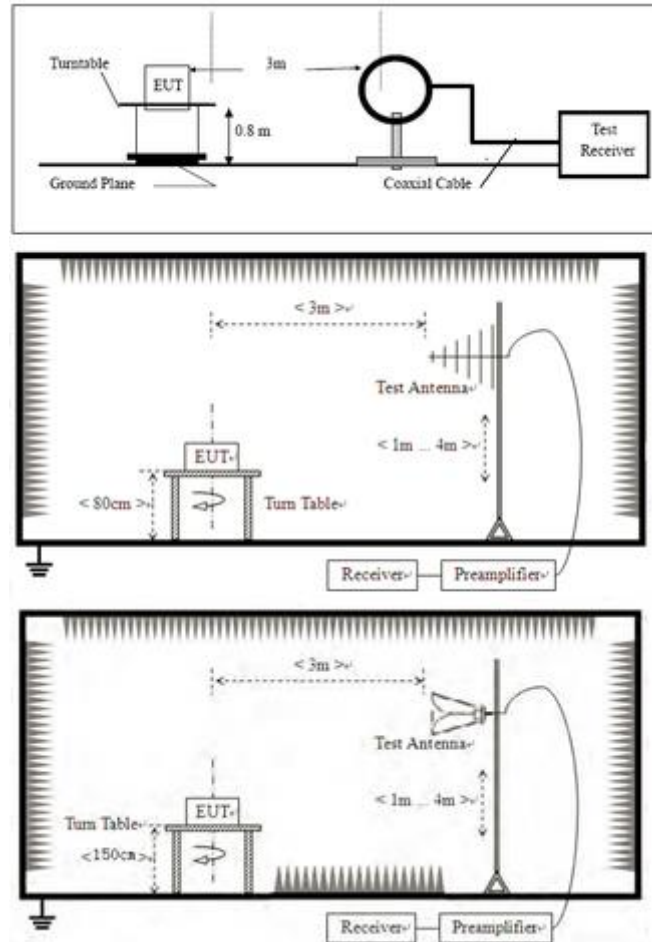
|                               |                                   |
|-------------------------------|-----------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247  |
| <b>Test Method</b>            | ANSI C63.10 (2013) Section 6.10.5 |
| <b>Test Mode (Pre-Scan)</b>   | TX                                |
| <b>Test Mode (Final Test)</b> | TX                                |
| <b>Tester</b>                 | Jozu                              |
| <b>Temperature</b>            | 25℃                               |
| <b>Humidity</b>               | 60%                               |

#### 3.1 LIMITS

| <b>Frequency(MHz)</b> | <b>Field strength(microvolts/meter)</b> | <b>Measurement distance(meters)</b> |
|-----------------------|-----------------------------------------|-------------------------------------|
| 0.009-0.490           | 2400/F(kHz)                             | 300                                 |
| 0.490-1.705           | 24000/F(kHz)                            | 30                                  |
| 1.705-30.0            | 30                                      | 30                                  |
| 30-88                 | 100                                     | 3                                   |
| 88-216                | 150                                     | 3                                   |
| 216-960               | 200                                     | 3                                   |
| Above 960             | 500                                     | 3                                   |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 3.2 BLOCK DIAGRAM OF TEST SETUP



### 3.3 PROCEDURE

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1:  $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamplifier Factor}$

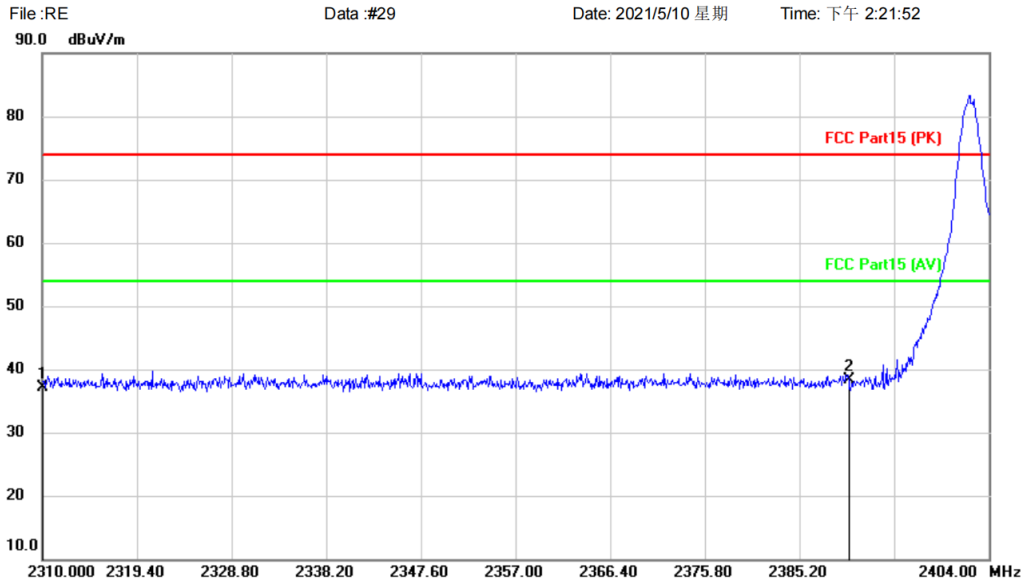
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

BlueAsia

### 3.4 TEST DATA

[TestMode: TX]; [Polarity: Horizontal]

#### Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature:

Limit: FCC Part15 (PK) Power: Humidity: %

EUT: Vehicle Audio System Distance: 3m

M/N: R3500

Mode: BLE-TX-L

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree  |
| 1   |     | 2310.000 | 41.81         | -4.61          | 37.20       | 74.00  | -36.80 | peak           |              | Comment |
| 2   | *   | 2390.000 | 42.60         | -4.27          | 38.33       | 74.00  | -35.67 | peak           |              |         |

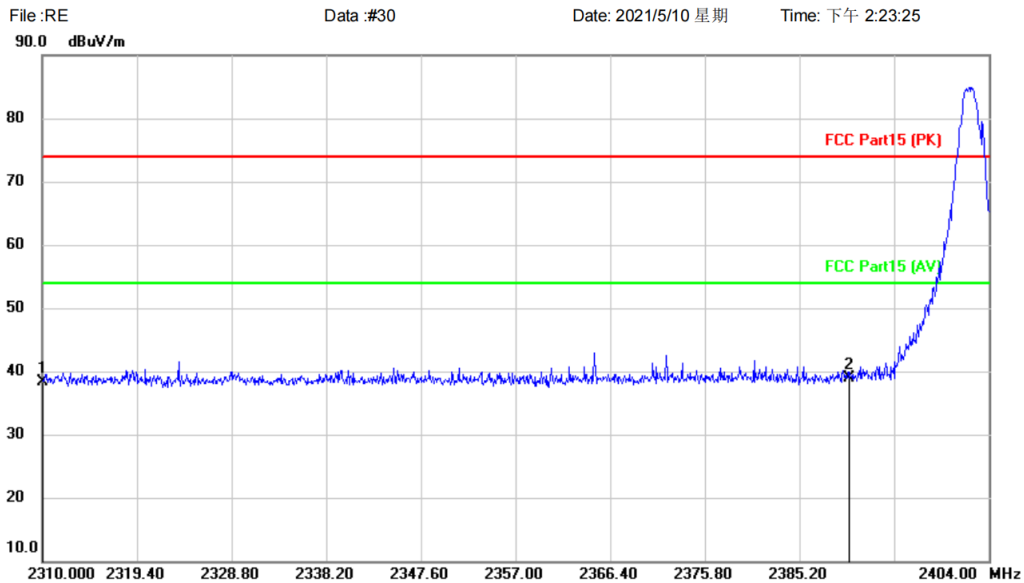
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: TX]; [Polarity: Vertical]

### Radiated Emission Measurement



Site Limit: FCC Part15 (PK) Polarization: **Vertical** Temperature:   
EUT: Vehicle Audio System Power: Humidity: %   
M/N: R3500 Distance: 3m   
Mode: BLE-TX-L   
Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|---------|
| 1   |     | 2310.000     | 42.99                    | -4.61                   | 38.38                      | 74.00           | -35.62     | peak                    |                 |         |
| 2   | *   | 2390.000     | 43.15                    | -4.27                   | 38.88                      | 74.00           | -35.12     | peak                    |                 |         |

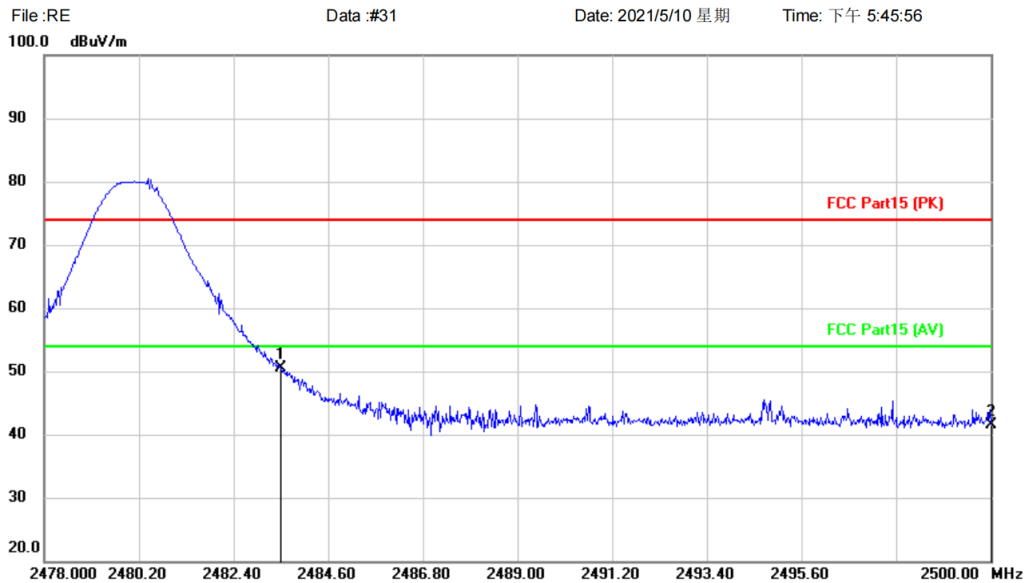
\*:Maximum data x:Over limit !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: TX]; [Polarity: Vertical]

### Radiated Emission Measurement



Site Limit: FCC Part15 (PK) EUT: Vehicle Audio System M/N: R3500 Mode: BLE-TX-H Note:

Polarization: **Vertical** Temperature: Humidity: % Power: Distance: 3m

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|---------|
| 1   | *   | 2483.500     | 54.37                    | -3.84                   | 50.53                      | 74.00           | -23.47     | peak                    |                 |         |
| 2   |     | 2500.000     | 45.36                    | -3.78                   | 41.58                      | 74.00           | -32.42     | peak                    |                 |         |

\*:Maximum data x:Over limit !:over margin

〈Reference Only

**Test Result: Pass**

[TestMode: TX]; [Polarity: Horizontal]

### Radiated Emission Measurement

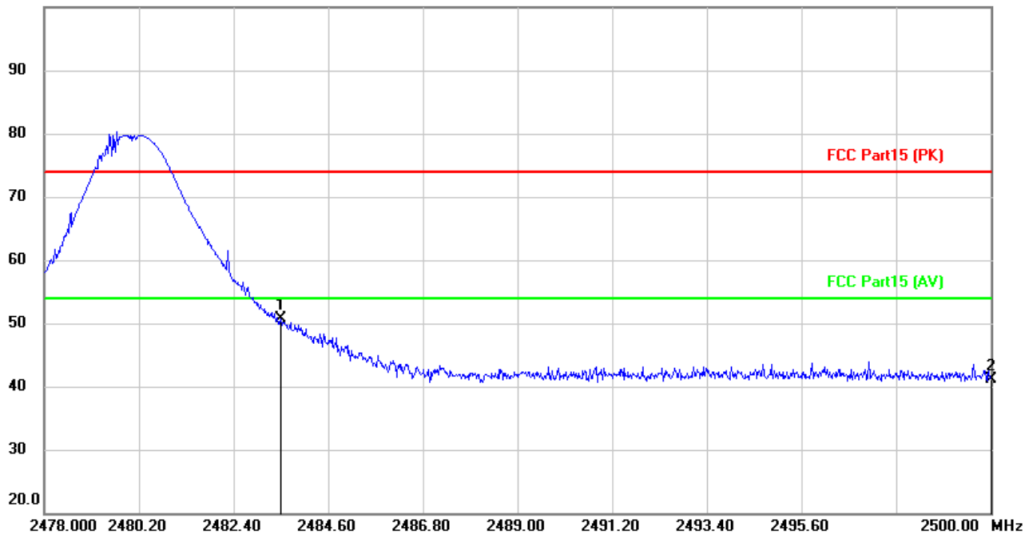
File :RE

Data :#32

Date: 2021/5/10 星期

Time: 下午 5:53:02

100.0 dBuV/m



Site

Polarization: **Horizontal**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: Vehicle Audio System

Distance: 3m

M/N: R3500

Mode: BLE-TX-H

Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector       | cm           | degree |
| 1   | *   | 2483.500 | 54.51         | -3.84          | 50.67       | 74.00  | -23.33 | peak           |              |        |
| 2   |     | 2500.000 | 44.88         | -3.78          | 41.10       | 74.00  | -32.90 | peak           |              |        |

\*:Maximum data x:Over limit !:over margin

〈Reference Only

**Test Result: Pass**

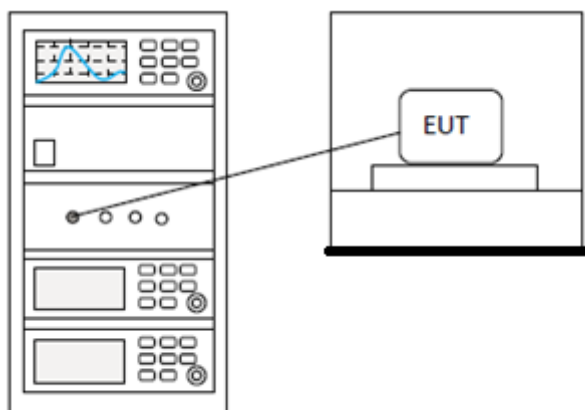
## 4 CONDUCTED SPURIOUS EMISSIONS

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247                 |
| <b>Test Method</b>            | ANSI C63.10 (2013) Section 7.8.6 & Section 11.11 |
| <b>Test Mode (Pre-Scan)</b>   | TX                                               |
| <b>Test Mode (Final Test)</b> | TX                                               |
| <b>Tester</b>                 | Jozu                                             |
| <b>Temperature</b>            | 25°C                                             |
| <b>Humidity</b>               | 60%                                              |

### 4.1 LIMITS

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Limit:</b> | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 4.2 BLOCK DIAGRAM OF TEST SETUP



#### 4.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

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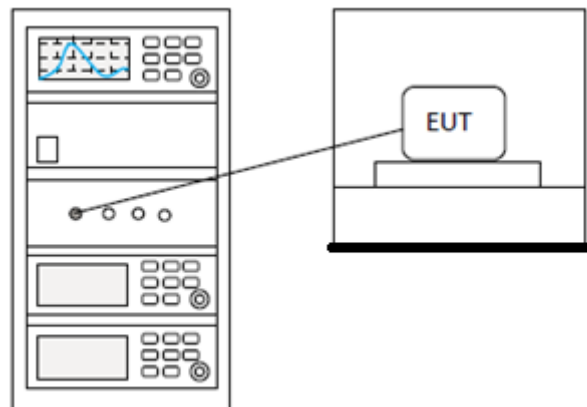
## 5 POWER SPECTRUM DENSITY

|                        |                                    |
|------------------------|------------------------------------|
| Test Standard          | 47 CFR Part 15, Subpart C 15.247   |
| Test Method            | ANSI C63.10 (2013) Section 11.10.2 |
| Test Mode (Pre-Scan)   | TX                                 |
| Test Mode (Final Test) | TX                                 |
| Tester                 | Jozu                               |
| Temperature            | 25°C                               |
| Humidity               | 60%                                |

### 5.1 LIMITS

|               |                                                                                          |
|---------------|------------------------------------------------------------------------------------------|
| <b>Limit:</b> | $\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission |
|---------------|------------------------------------------------------------------------------------------|

### 5.2 BLOCK DIAGRAM OF TEST SETUP



### 5.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

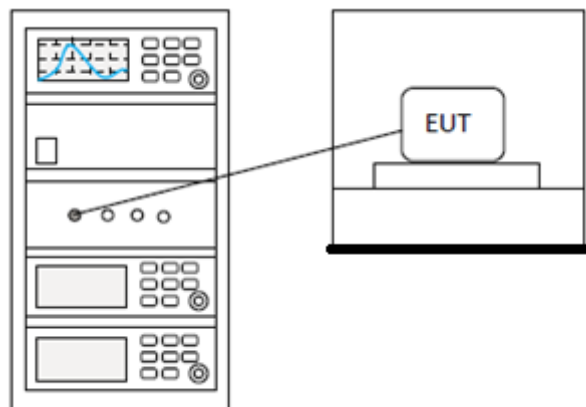
## 6 CONDUCTED PEAK OUTPUT POWER

|                        |                                  |
|------------------------|----------------------------------|
| Test Standard          | 47 CFR Part 15, Subpart C 15.247 |
| Test Method            | ANSI C63.10 (2013) Section 7.8.5 |
| Test Mode (Pre-Scan)   | TX                               |
| Test Mode (Final Test) | TX                               |
| Tester                 | Jozu                             |
| Temperature            | 25℃                              |
| Humidity               | 60%                              |

### 6.1 LIMITS

| Frequency range(MHz) | Output power of the intentional radiator(watt)         |
|----------------------|--------------------------------------------------------|
| 902-928              | 1 for $\geq 50$ hopping channels                       |
|                      | 0.25 for $25 \leq \text{hopping channels} < 50$        |
|                      | 1 for digital modulation                               |
| 2400-2483.5          | 1 for $\geq 75$ non-overlapping hopping channels       |
|                      | 0.125 for all other frequency hopping systems          |
|                      | 1 for digital modulation                               |
| 5725-5850            | 1 for frequency hopping systems and digital modulation |

### 6.2 BLOCK DIAGRAM OF TEST SETUP



### 6.3 EST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

BlueAsia

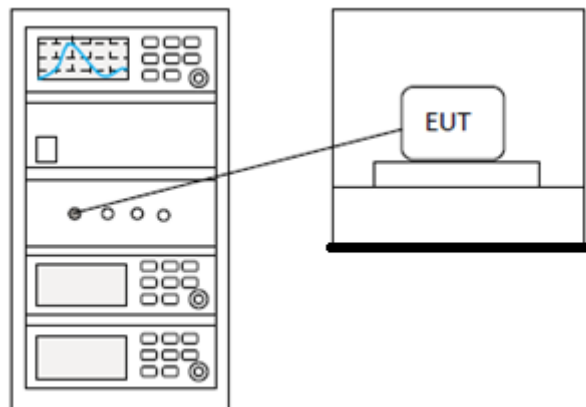
## 7 MINIMUM 6DB BANDWIDTH

|                        |                                   |
|------------------------|-----------------------------------|
| Test Standard          | 47 CFR Part 15, Subpart C 15.247  |
| Test Method            | ANSI C63.10 (2013) Section 11.8.1 |
| Test Mode (Pre-Scan)   | TX                                |
| Test Mode (Final Test) | TX                                |
| Tester                 | Jozu                              |
| Temperature            | 25°C                              |
| Humidity               | 60%                               |

### 7.1 LIMITS

|        |                |
|--------|----------------|
| Limit: | $\geq 500$ kHz |
|--------|----------------|

### 7.2 BLOCK DIAGRAM OF TEST SETUP



### 7.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

## 8 ANTENNA REQUIREMENT

|               |                                  |
|---------------|----------------------------------|
| Test Standard | 47 CFR Part 15, Subpart C 15.247 |
| Test Method   | N/A                              |

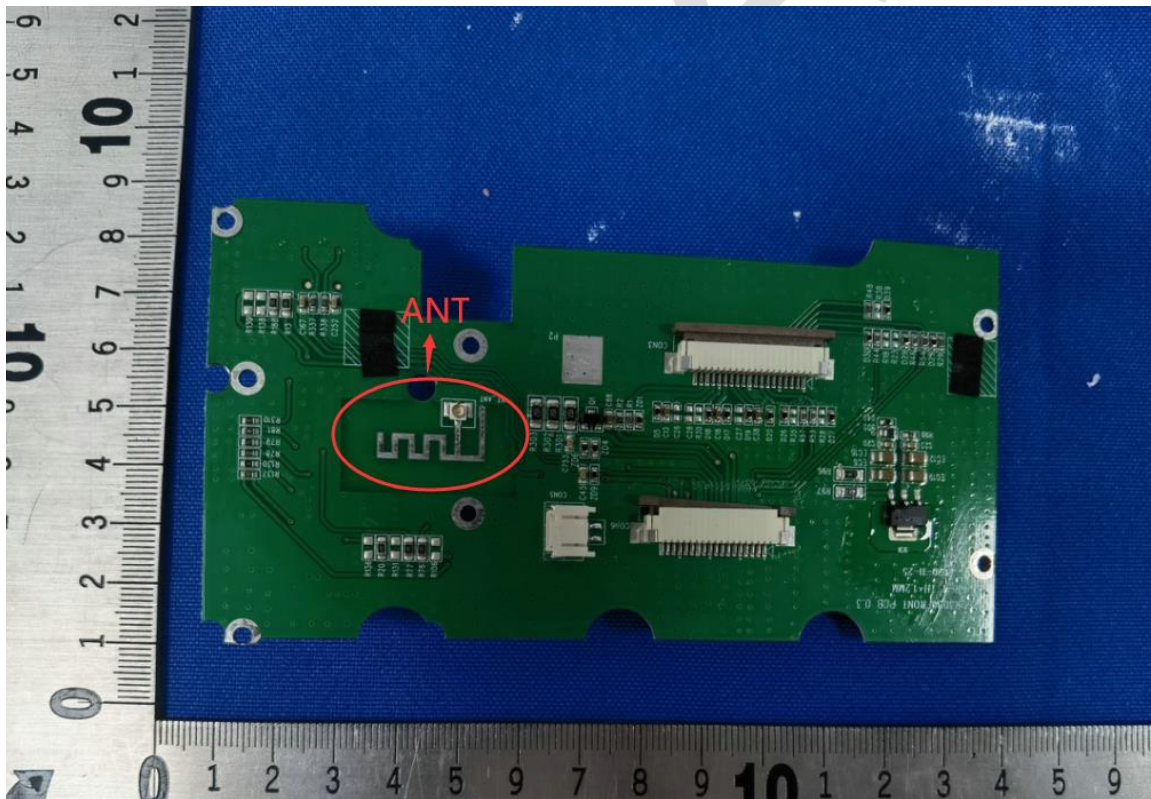
### 8.1 CONCLUSION

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.



## 10 APPENDIX

### Appendix1

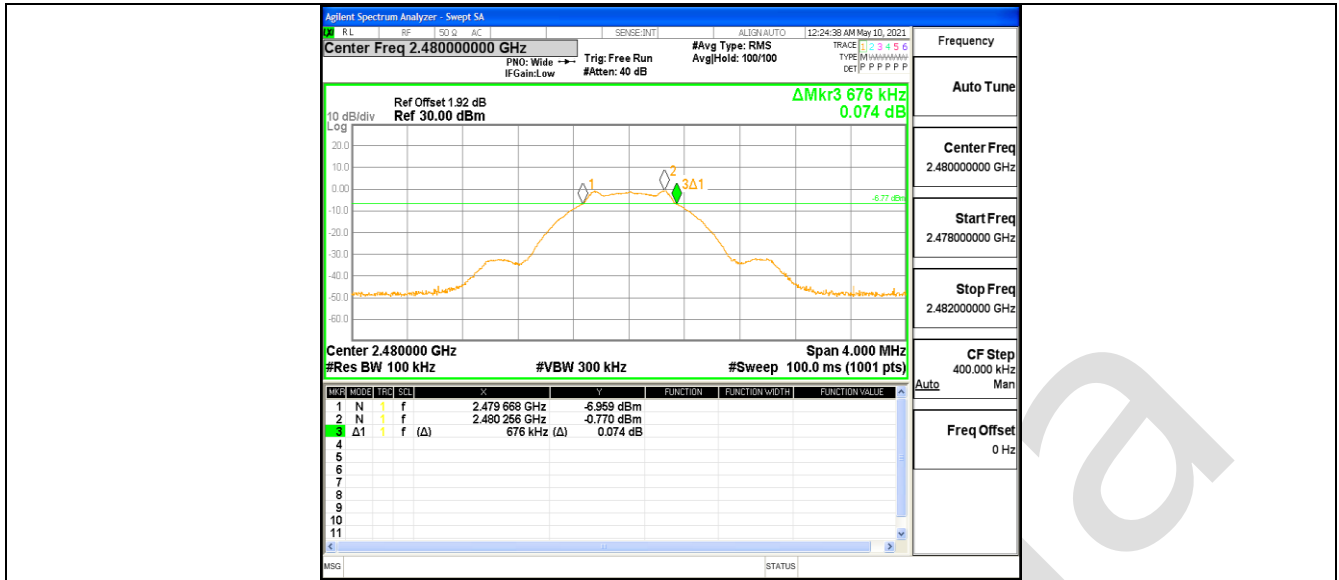
#### 10.1 APPENDIX A: DTS BANDWIDTH

##### Test Result

| TestMode | Antenna | Channel | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------------|----------|----------|------------|---------|
| BLE      | Ant1    | 2402    | 0.672           | 2401.668 | 2402.340 | $\geq 0.5$ | PASS    |
|          |         | 2442    | 0.672           | 2441.668 | 2442.340 | $\geq 0.5$ | PASS    |
|          |         | 2480    | 0.676           | 2479.668 | 2480.344 | $\geq 0.5$ | PASS    |

## Test Graphs

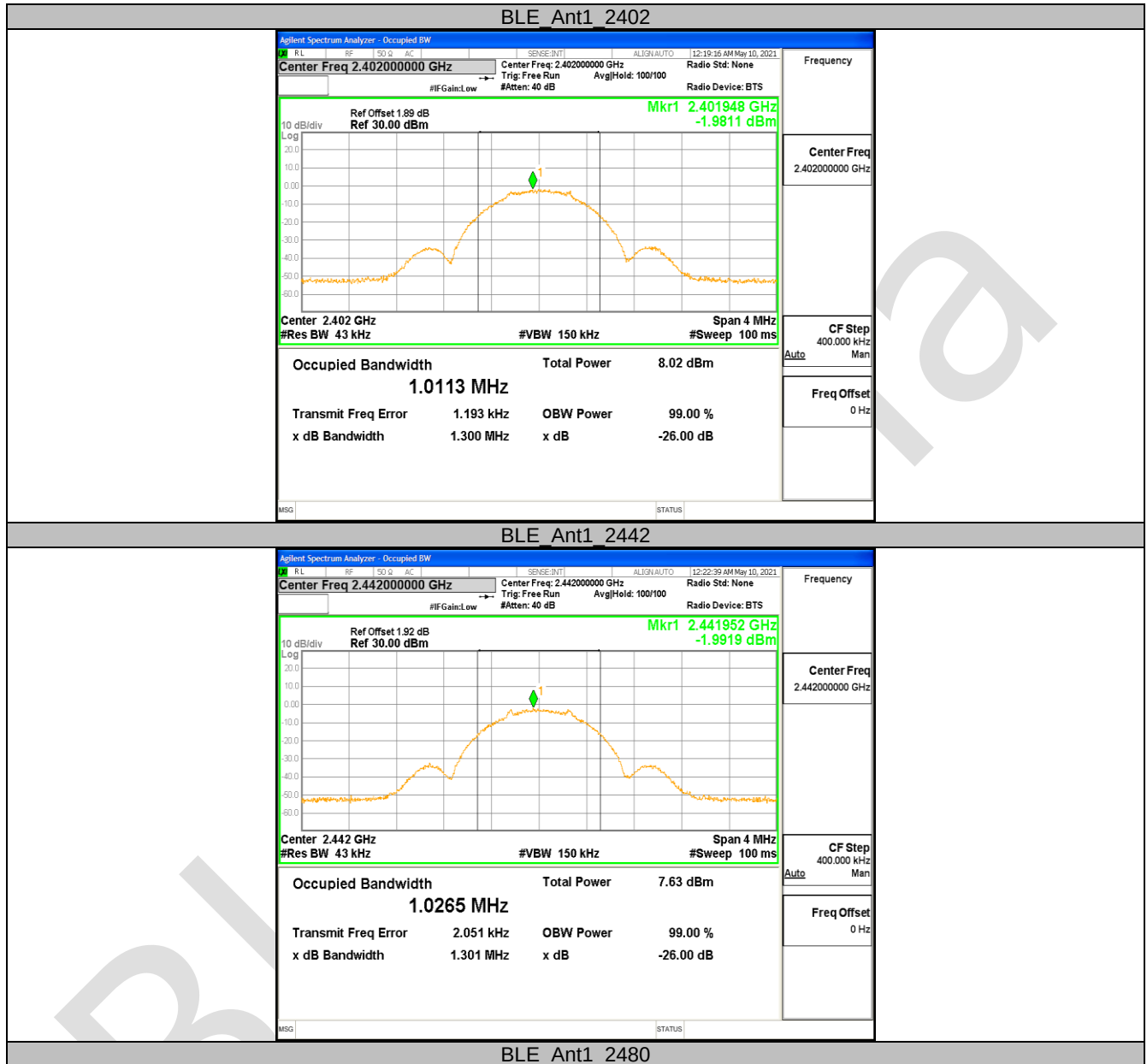


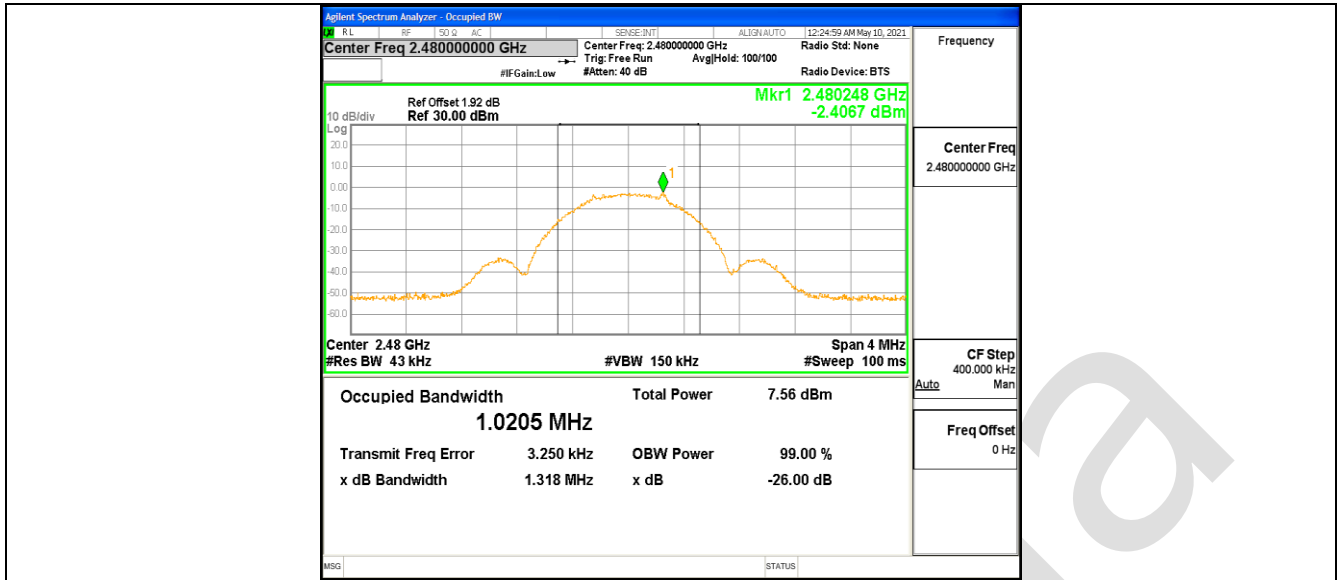


**10.2 APPENDIX B: OCCUPIED CHANNEL BANDWIDTH****Test Result**

| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|----------|----------|------------|---------|
| BLE      | Ant1    | 2402    | 1.0113    | 2401.496 | 2402.507 | ---        | PASS    |
|          |         | 2442    | 1.0265    | 2441.489 | 2442.515 | ---        | PASS    |
|          |         | 2480    | 1.0205    | 2479.493 | 2480.514 | ---        | PASS    |

## Test Graphs

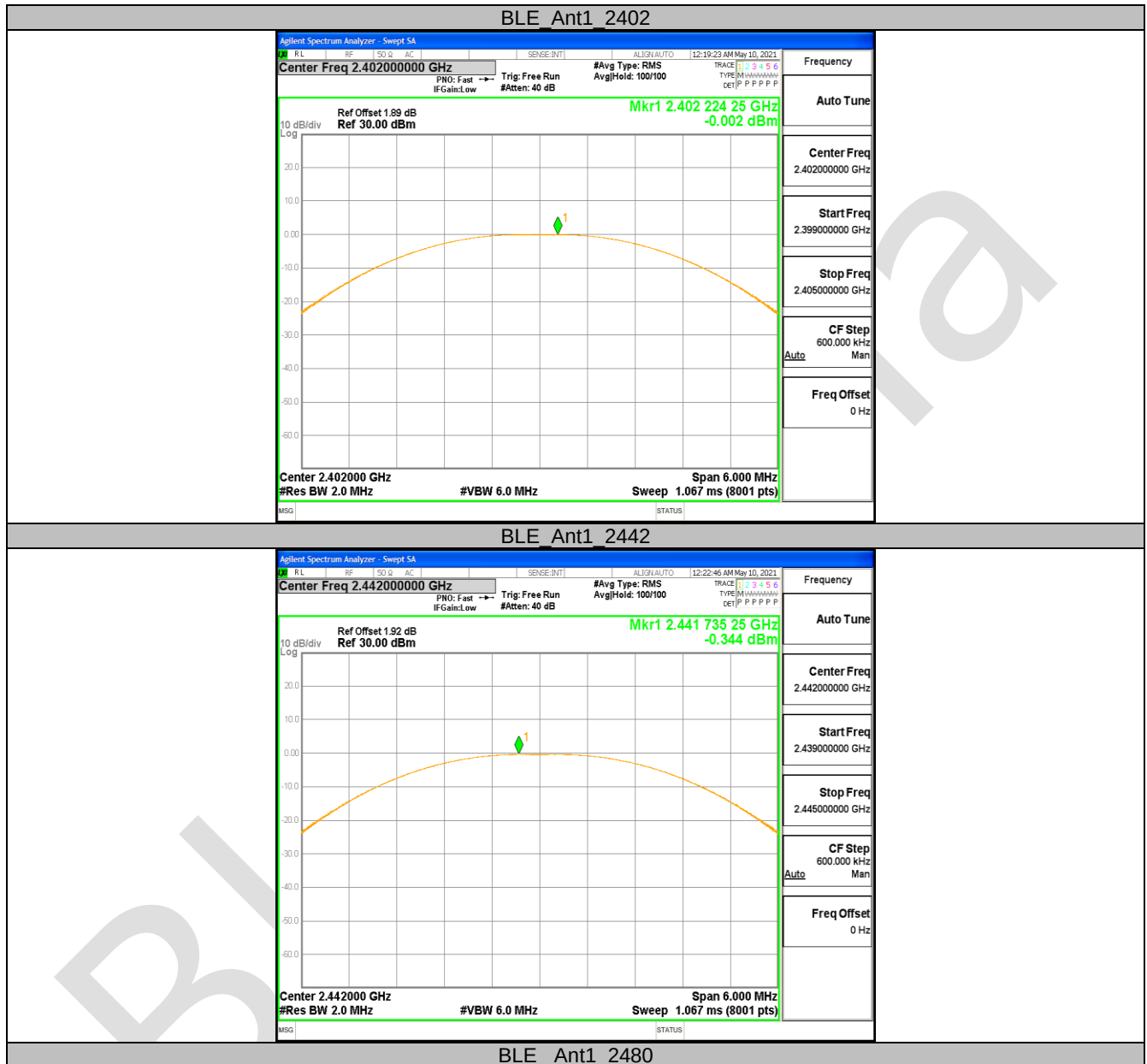


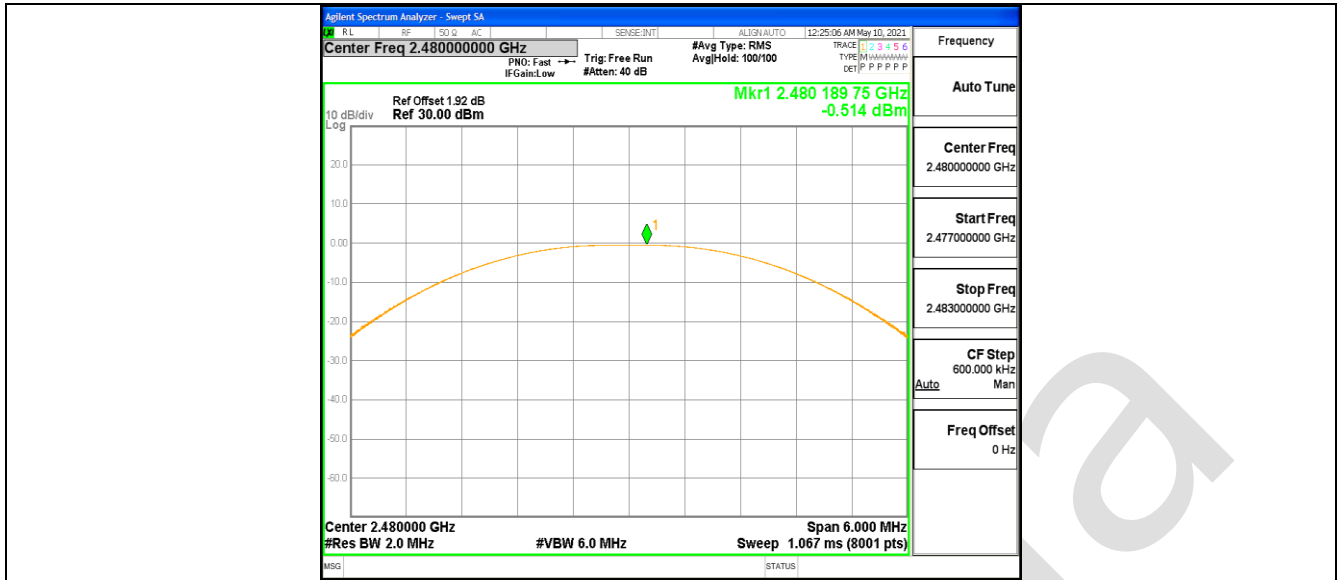


**10.3 APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER****Test Result**

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| BLE      | Ant1    | 2402    | 0           | <=30       | PASS    |
|          |         | 2442    | -0.34       | <=30       | PASS    |
|          |         | 2480    | -0.51       | <=30       | PASS    |

## Test Graphs

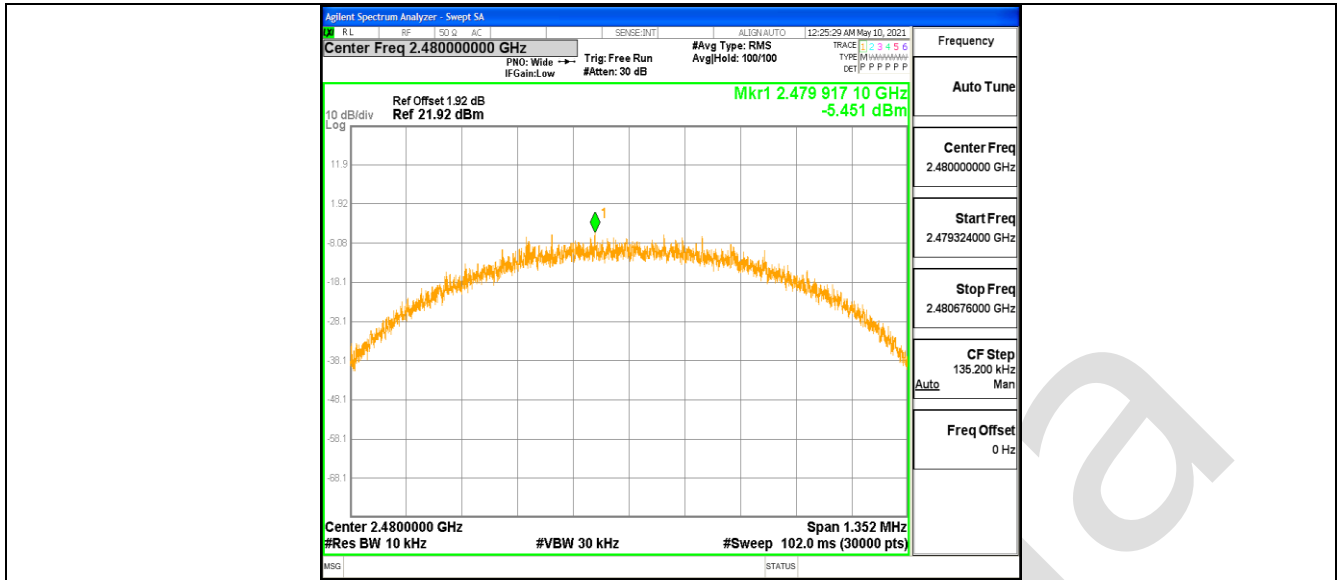




**10.4 APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY****Test Result**

| TestMode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|----------------------|-----------------|---------|
| BLE      | Ant1    | 2402    | -5.03                | <=8             | PASS    |
|          |         | 2442    | -5.51                | <=8             | PASS    |
|          |         | 2480    | -5.45                | <=8             | PASS    |

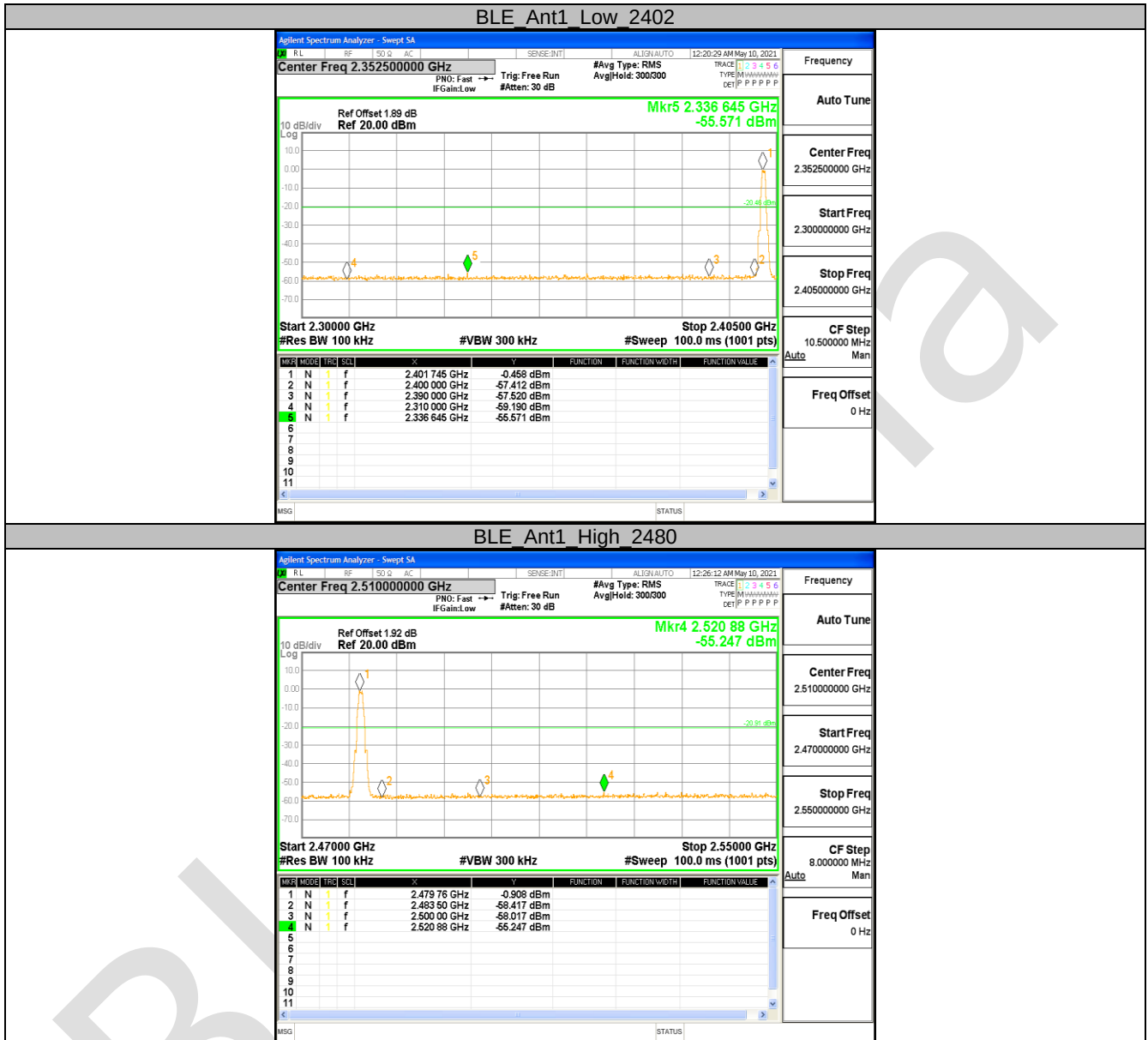




**10.5 APPENDIX E: BAND EDGE MEASUREMENTS****Test Result**

| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|----------|---------|--------|---------|---------------|-------------|---------------|---------|
| BLE      | Ant1    | Low    | 2402    | -0.46         | -55.57      | $\leq -20.46$ | PASS    |
|          |         | High   | 2480    | -0.91         | -55.25      | $\leq -20.91$ | PASS    |

## Test Graphs



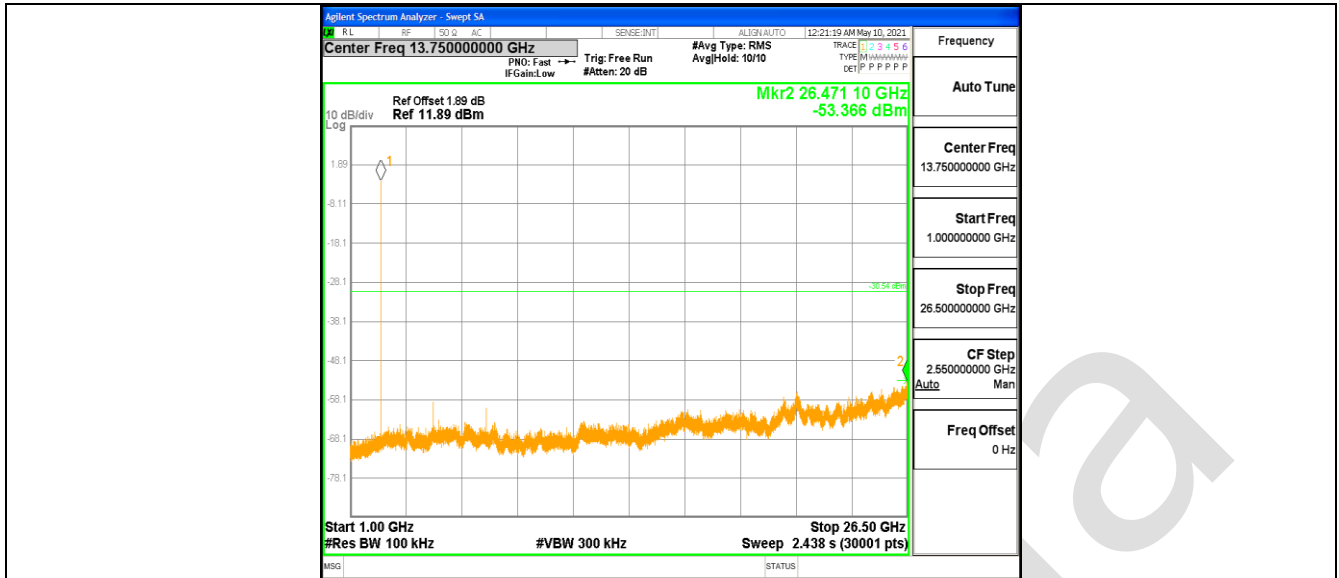
## 10.6 APPENDIX F: CONDUCTED SPURIOUS EMISSION

### Test Result

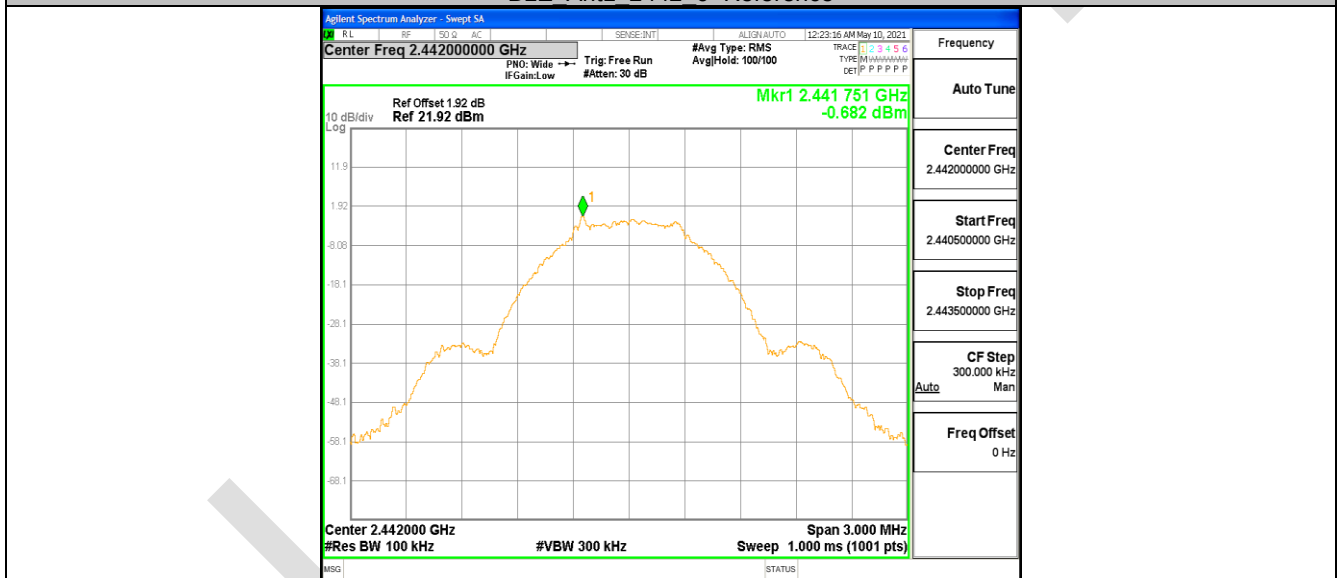
| TestMode | Antenna | Channel | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-----------------|----------------|-------------|------------|---------|
| BLE      | Ant1    | 2402    | Reference       | -0.54          | -0.54       | ---        | PASS    |
|          |         |         | 30~1000         | -0.54          | -67.93      | <=-30.54   | PASS    |
|          |         |         | 1000~26500      | -0.54          | -53.37      | <=-30.54   | PASS    |
|          |         | 2442    | Reference       | -0.68          | -0.68       | ---        | PASS    |
|          |         |         | 30~1000         | -0.68          | -67.66      | <=-30.68   | PASS    |
|          |         |         | 1000~26500      | -0.68          | -53.64      | <=-30.68   | PASS    |
|          |         | 2480    | Reference       | -1.26          | -1.26       | ---        | PASS    |
|          |         |         | 30~1000         | -1.26          | -67.66      | <=-31.26   | PASS    |
|          |         |         | 1000~26500      | -1.26          | -53.48      | <=-31.26   | PASS    |

## Test Graphs

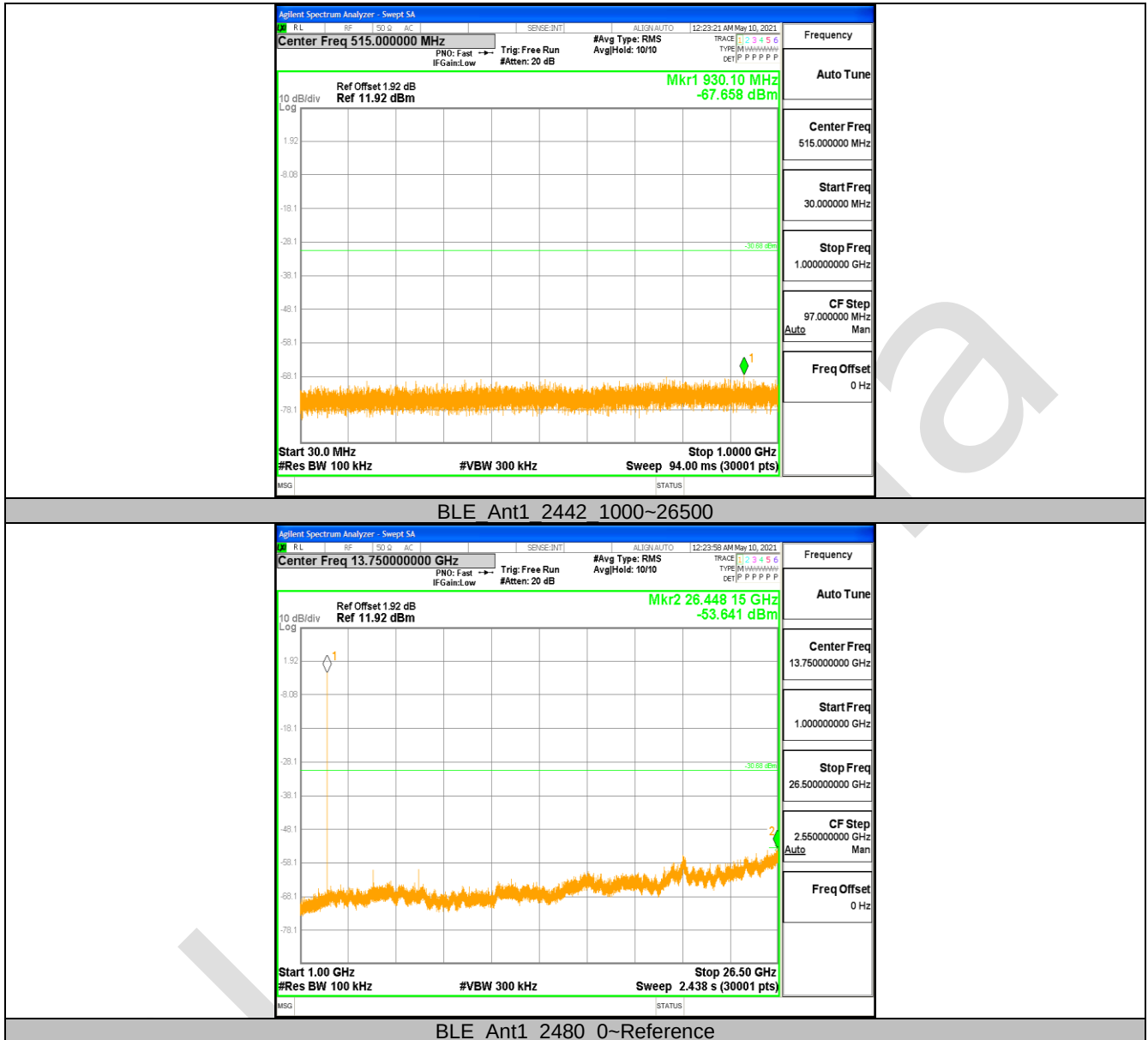


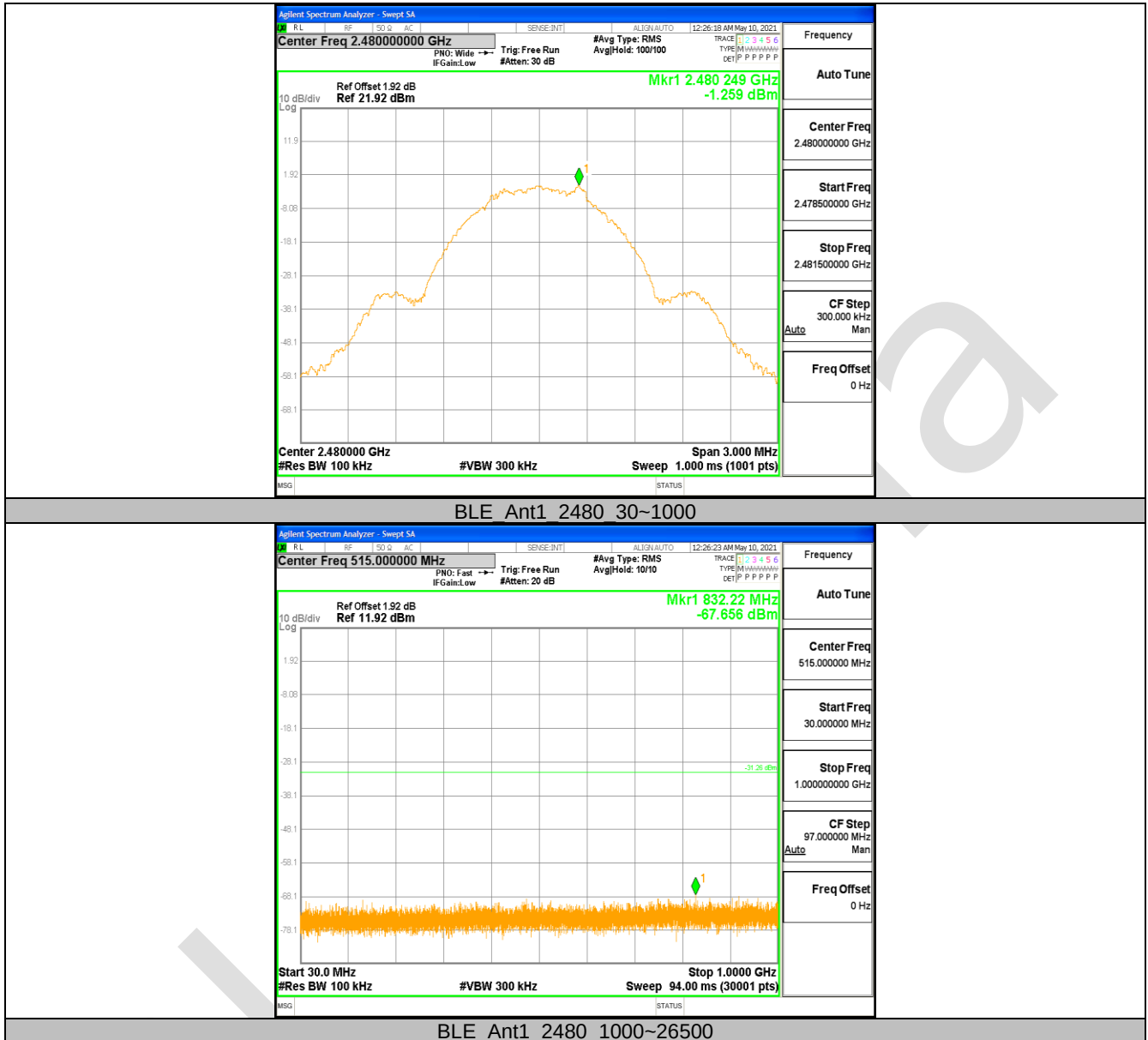


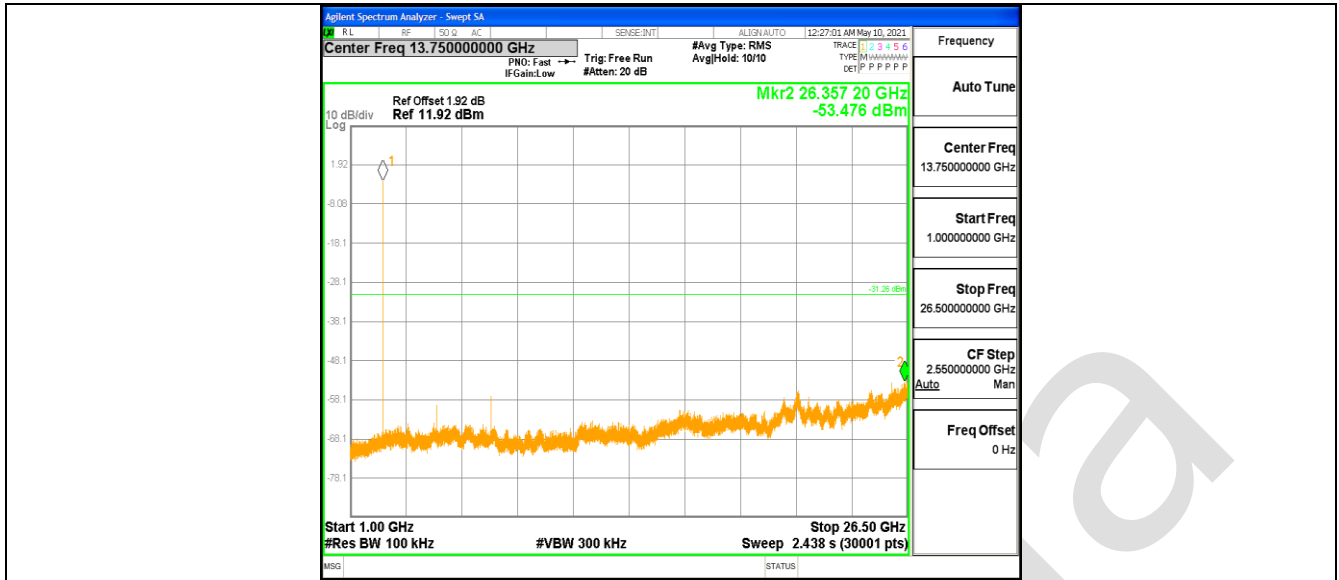
BLE Ant1 2442 0~Reference



BLE Ant1 2442 30~1000

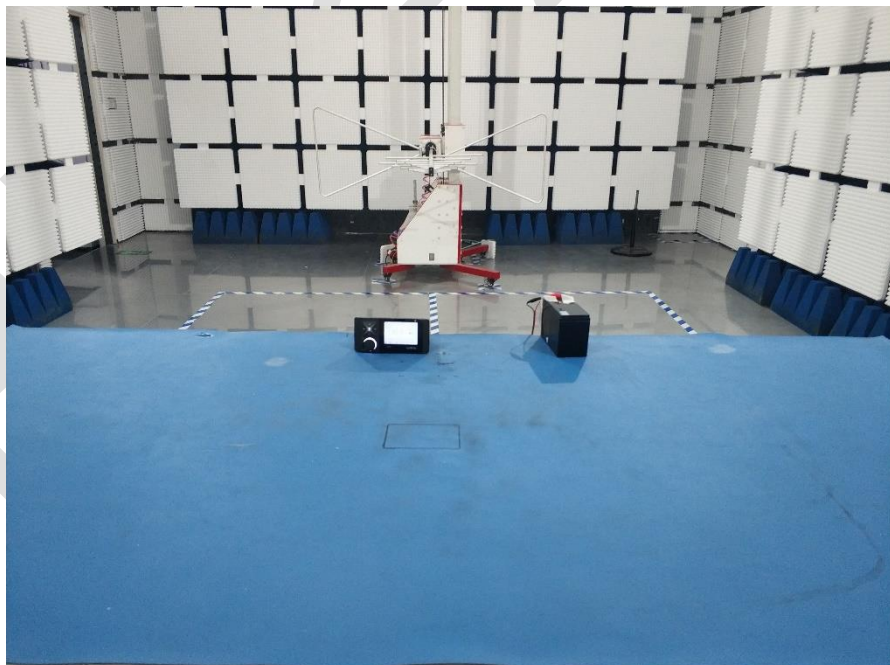
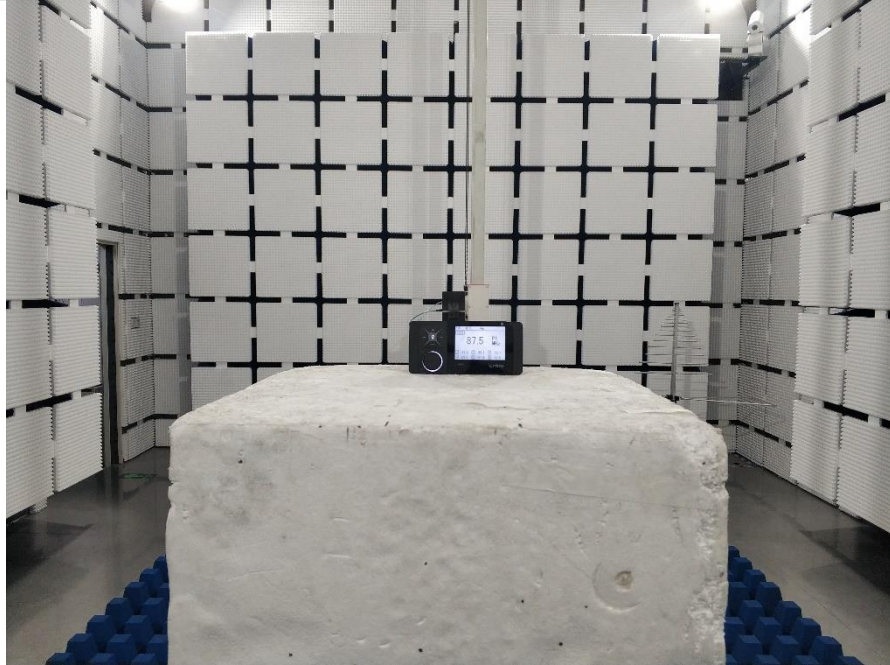






## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### Radiated Spurious Emissions



**APPENDIX B: PHOTOGRAPHS OF EUT**

Reference to the test report No. BLA-EMC-202104-A5803

**----END OF REPORT----**

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