# TEST REPORT

| | | |
|---|---|---|
| **Product Name** | : | Westgate Resorts Owner Tablet |
| **Brand Mark** | : | Westgate Resorts |
| **Model No.** | : | T802 |
| **FCC ID** | : | 2AXKI-T802 |
| **Report Number** | : | BLA-EMC-202107-A2502 |
| **Date of Sample Receipt** | : | 2021/7/8 |
| **Date of Test** | : | 2021/7/8 to 2021/7/27 |
| **Date of Issue** | : | 2021/7/27 |
| **Test Standard** | : | 47 CFR Part 15, Subpart C 15.247 |
| **Test Result** | : | Pass |

Prepared for:

**Shenzhen Weihejia Electronic Technology Co.,LTD**
**11st floor, Taijiale technology Industrial park, Tongguan Road, Tianliao community, Gongming agency, Guangming new district, Shenzhen, China**

Prepared by:

**BlueAsia of Technical Services(Shenzhen) Co.,Ltd.**
**Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China**
**TEL: +86-755-23059481**

Compiled by: Jozu

Review by: Sweely

Approved by: Blue Zhong

Date: 2021/7/27

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

**REPORT REVISE RECORD**

| Version No. | Date | Description |
|---|---|---|
| 00 | 2021/7/27 | Original |

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# 1 TEST SUMMARY

| Test item | Test Requirement | Test Method | Class/Severity | Result |
|---|---|---|---|---|
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | Pass |
| 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

| | |
|---|---|
| **Applicant** | Shenzhen Weihejia Electronic Technology Co.,LTD |
| **Address** | 11st floor, Taijiale technology Industrial park, Tongguan Road, Tianliao community, Gongming agency, Guangming new district, Shenzhen, China |
| **Manufacturer** | ShenZhen WeiHejia Electronics Technology CO.,LTD |
| **Address** | 11st floor, Taijiale technology Industrial park, Tongguan Road, Tianliao community, Gongming agency, Guangming new district, Shenzhen, China |
| **Factory** | ShenZhen WeiHejia Electronics Technology CO.,LTD |
| **Address** | 11st floor, Taijiale technology Industrial park, Tongguan Road, Tianliao community, Gongming agency, Guangming new district, Shenzhen, China |
| **Product Name** | Westgate Resorts Owner Tablet |
| **Test Model No.** | T802 |

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

| | |
|---|---|
| **Hardware Version** | A863-68T5A |
| **Software Version** | Android 11.0 |

| | |
|---|---|
| **Operation Frequency:** | 2402MHz-2480MHz |
| **Modulation Type:** | GFSK |
| **Channel Spacing:** | 2MHz |
| **Number of Channels:** | 40 |
| **Antenna Type:** | Internal Antenna |
| **Antenna Gain:** | 2.1 dBi |

## 4 TEST ENVIRONMENT

| Environment | Temperature | Voltage |
|---|---|---|
| Normal | 25℃ | DC3.7V |

## 5 TEST MODE

| TEST MODE | TEST MODE DESCRIPTION |
|---|---|
| TX | Keep the EUT in transmitting mode with modulation |
| 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 |
|---|---|---|---|---|
| N/A | N/A | N/A | N/A | N/A |

## 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 Emissions at AC Power Line (150kHz-30MHz) | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model** | **S/N** | **Cal.Date** | **Cal.Due** |
| Shield room | SKET | 833 | N/A | 2020/11/25 | 2023/11/24 |
| Receiver | R&S | ESPI3 | 101082 | 2020/10/12 | 2021/10/11 |
| LISN | R&S | ENV216 | 3560.6550.15 | 2020/10/12 | 2021/10/11 |
| LISN | AT | AT166-2 | AKK1806000003 | 2020/10/12 | 2021/10/11 |
| EMI software | EZ | EZ-EMC | EEMC-3A1 | N/A | N/A |

| 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 P:00227 | 2020/9/26 | 2022/9/25 |
| Horn Antenna | Schwarzbeck | 9120D | 01892 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 P:00227 | 2020/9/26 | 2022/9/25 |
| Horn Antenna | Schwarzbeck | 9120D | 01892 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 |

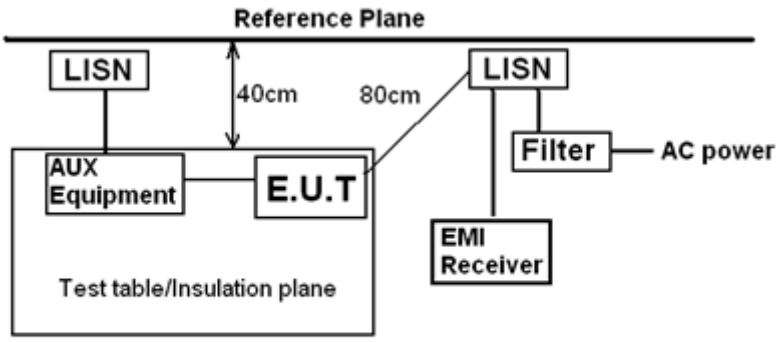
# 10 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

| | |
|---|---|
| **Test Standard** | 47 CFR Part 15, Subpart C 15.247 |
| **Test Method** | ANSI C63.10 (2013) Section 6.2 |
| **Test Mode (Pre-Scan)** | BLE |
| **Test Mode (Final Test)** | BLE |
| **Tester** | Jozu |
| **Temperature** | 25℃ |
| **Humidity** | 60% |

## 10.1 LIMITS

| Frequency of emission(MHz) | Conducted limit(dBμV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |
| *Decreases with the logarithm of the frequency. | | |

## 10.2 BLOCK DIAGRAM OF TEST SETUP




*Remark*
*E.U.T: Equipment Under Test*
*LISN: Line Impedence Stabilization Network*
*Test table height=0.8m*

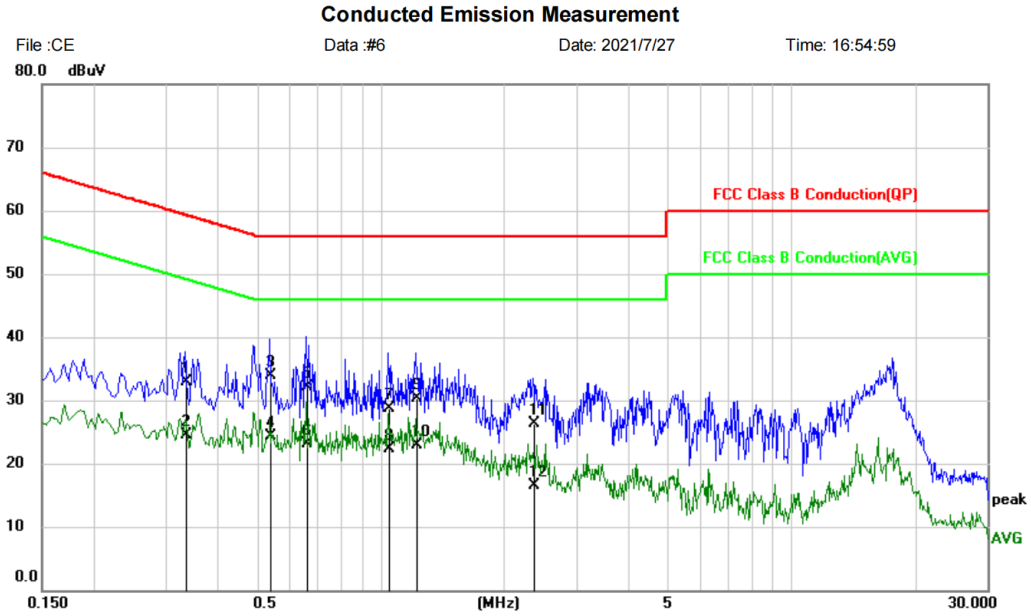
## 10.3 PROCEDURE

1) The mains terminal disturbance voltage test was conducted in a shielded room.
2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as

the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
Remark: LISN=Read Level+ Cable Loss+ LISN Factor

### 10.4 TEST DATA

## [TestMode: BLE]; [Line: Neutral]




Site
Limit: FCC Class B Conduction(QP)
EUT: Tablet PC
M/N: BLE mode
Mode: T802
Note:

Phase: *N*
Power:

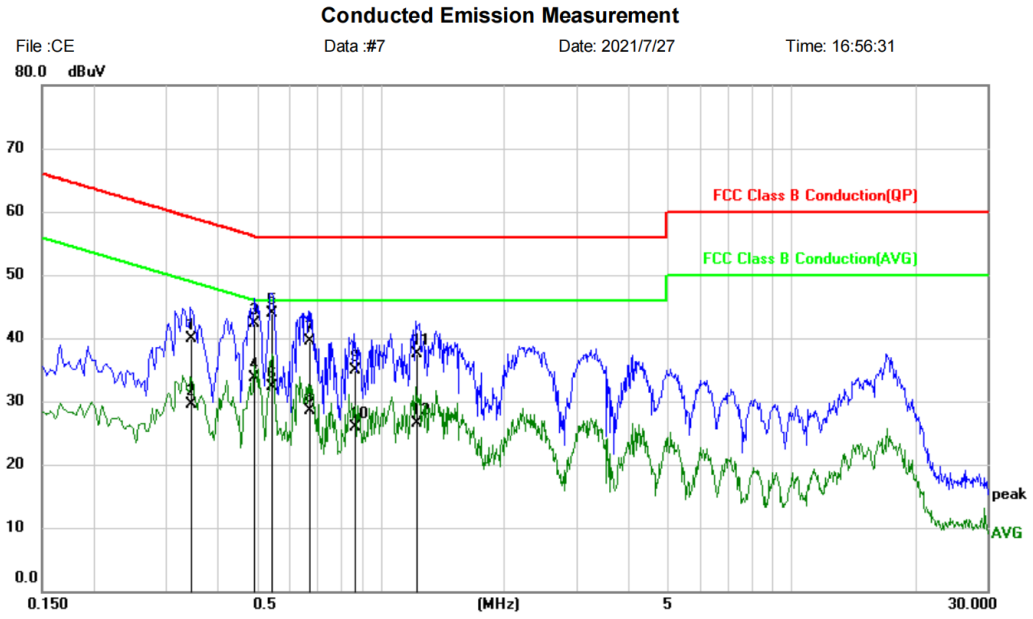
Temperature:
Humidity: %

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.3339 | 23.16 | 9.77 | 32.93 | 59.35 | -26.42 | QP | |
| 2 | | 0.3339 | 14.68 | 9.77 | 24.45 | 49.35 | -24.90 | AVG | |
| 3 | | 0.5380 | 24.10 | 9.79 | 33.89 | 56.00 | -22.11 | QP | |
| 4 | * | 0.5380 | 14.49 | 9.79 | 24.28 | 46.00 | -21.72 | AVG | |
| 5 | | 0.6580 | 22.20 | 9.81 | 32.01 | 56.00 | -23.99 | QP | |
| 6 | | 0.6580 | 13.29 | 9.81 | 23.10 | 46.00 | -22.90 | AVG | |
| 7 | | 1.0460 | 18.84 | 9.84 | 28.68 | 56.00 | -27.32 | QP | |
| 8 | | 1.0460 | 12.49 | 9.84 | 22.33 | 46.00 | -23.67 | AVG | |
| 9 | | 1.2220 | 20.48 | 9.84 | 30.32 | 56.00 | -25.68 | QP | |
| 10 | | 1.2220 | 13.01 | 9.84 | 22.85 | 46.00 | -23.15 | AVG | |
| 11 | | 2.3460 | 16.52 | 9.87 | 26.39 | 56.00 | -29.61 | QP | |
| 12 | | 2.3460 | 6.68 | 9.87 | 16.55 | 46.00 | -29.45 | AVG | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

## [TestMode: BLE]; [Line: Line]




Site | Phase: *L1* | Temperature:
Limit: FCC Class B Conduction(QP) | Power: | Humidity: %
EUT: Tablet PC
M/N: BLE mode
Mode: T802
Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.3460 | 30.19 | 9.77 | 39.96 | 59.06 | -19.10 | QP | |
| 2 | | 0.3460 | 19.75 | 9.77 | 29.52 | 49.06 | -19.54 | AVG | |
| 3 | | 0.4940 | 32.55 | 9.79 | 42.34 | 56.10 | -13.76 | QP | |
| 4 | | 0.4940 | 23.93 | 9.79 | 33.72 | 46.10 | -12.38 | AVG | |
| 5 | * | 0.5420 | 34.17 | 9.79 | 43.96 | 56.00 | -12.04 | QP | |
| 6 | | 0.5420 | 22.59 | 9.79 | 32.38 | 46.00 | -13.62 | AVG | |
| 7 | | 0.6700 | 29.65 | 9.81 | 39.46 | 56.00 | -16.54 | QP | |
| 8 | | 0.6700 | 18.76 | 9.81 | 28.57 | 46.00 | -17.43 | AVG | |
| 9 | | 0.8660 | 25.16 | 9.83 | 34.99 | 56.00 | -21.01 | QP | |
| 10 | | 0.8660 | 16.05 | 9.83 | 25.88 | 46.00 | -20.12 | AVG | |
| 11 | | 1.2220 | 27.74 | 9.84 | 37.58 | 56.00 | -18.42 | QP | |
| 12 | | 1.2220 | 16.69 | 9.84 | 26.53 | 46.00 | -19.47 | AVG | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

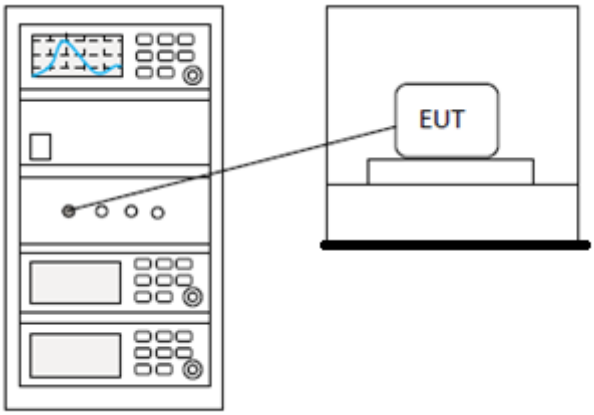
# 11 CONDUCTED BAND EDGES MEASUREMENT

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

## 11.1 LIMITS

| | |
|---|---|
| **Limit:** | 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)). |

## 11.2 BLOCK DIAGRAM OF TEST SETUP



### 11.3 TEST DATA

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

# 12 RADIATED SPURIOUS EMISSIONS

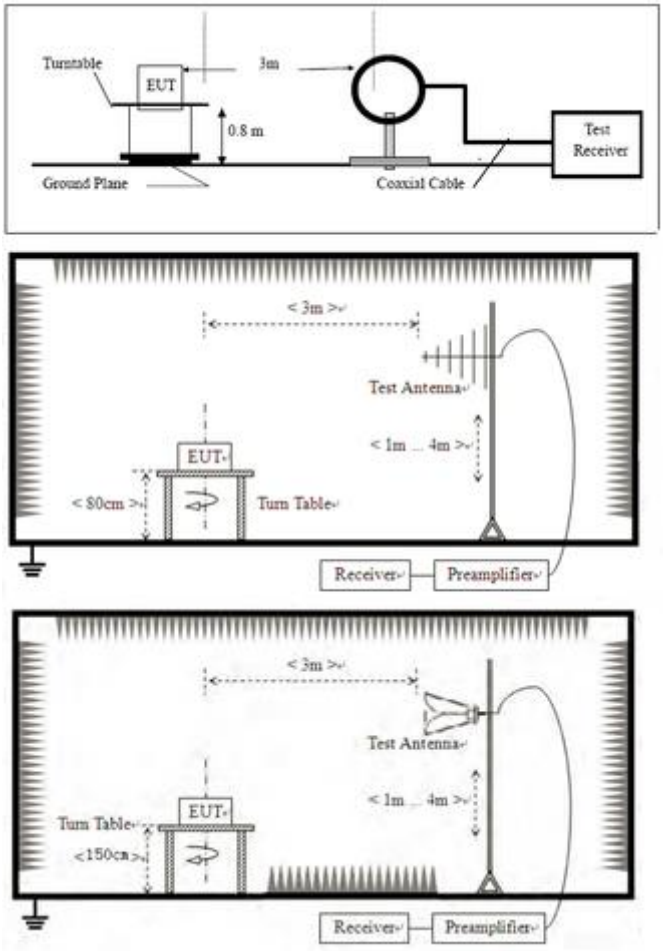
| | |
|---|---|
| **Test Standard** | 47 CFR Part 15, Subpart C 15.247 |
| **Test Method** | ANSI C63.10 (2013) Section 6.4,6.5,6.6 |
| **Test Mode (Pre-Scan)** | TX mode (SE) below 1G;TX mode (SE) Above 1G |
| **Test Mode (Final Test)** | TX mode (SE) below 1G;TX mode (SE) Above 1G |
| **Tester** | Jozu |
| **Temperature** | 25℃ |
| **Humidity** | 60% |

## 12.1 LIMITS

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|---|---|---|
| 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.

## 12.2 BLOCK DIAGRAM OF TEST SETUP




## 12.3 PROCEDURE

a. 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.
b. 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.
c. 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.
d. 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.
e. 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.
f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
g. 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.

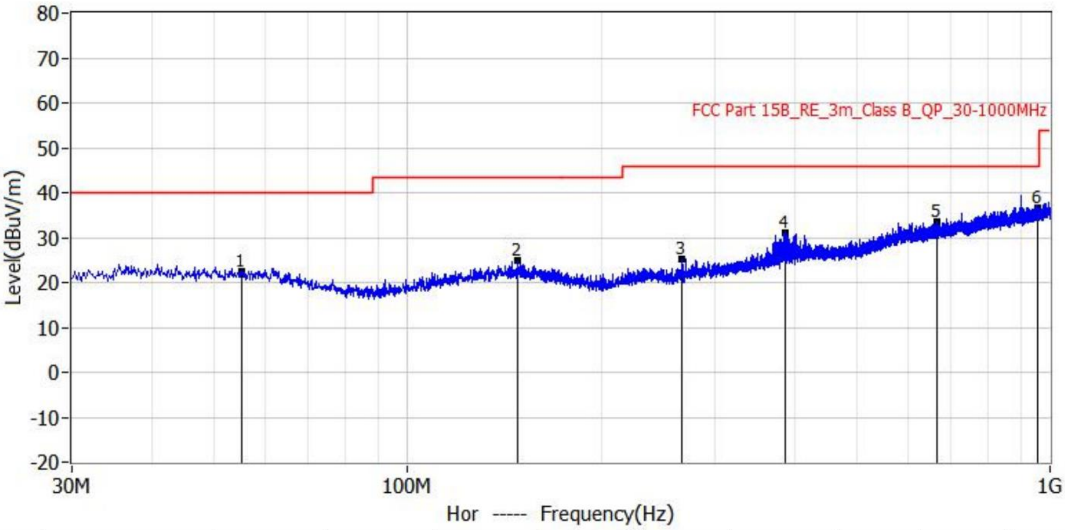
h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
j. Repeat above procedures until all frequencies measured was complete.

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.

### 12.4 TEST DATA

[TestMode: TX mode (SE) below 1G]; [Polarity: Horizontal]

| | |
|---|---|
| Test Lab: BlueAsia EMC Lab（RE #1） | Project: BLA-EMC 202107-A25 |
| EUT: Tablet PC | Test Engineer: Charlie |
| M/N: T802 | Temperature: 25℃ |
| S/N: | Humidity: 45%RH |
| Test Mode: BLE mode | Test Voltage: AC 230V/50Hz |
| Note: | Test Data: 2021-07-27 15:39:56 |

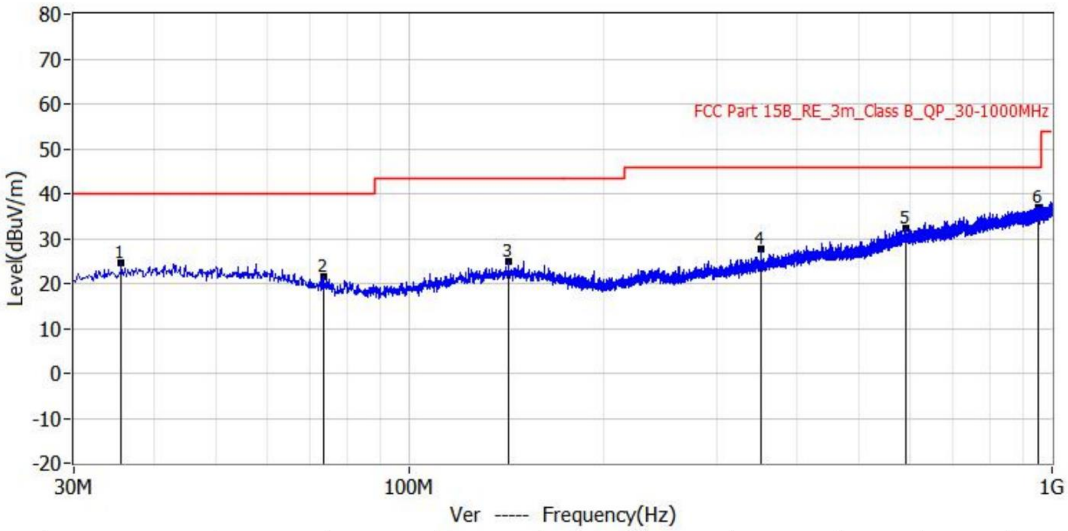



| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar | Height cm | Angle deg |
|---|---|---|---|---|---|---|---|---|---|---|
| 1* | 55.099MHz | 40.0 | 22.6 | -17.4 | -1.0 | 23.6 | QP | Hor | 100.0 | 344.0 |
| 2* | 148.583MHz | 43.5 | 24.9 | -18.6 | 1.4 | 23.5 | QP | Hor | 100.0 | 287.0 |
| 3* | 266.680MHz | 46.0 | 25.3 | -20.7 | 2.3 | 23.0 | QP | Hor | 100.0 | 89.0 |
| 4* | 386.839MHz | 46.0 | 31.2 | -14.8 | 4.3 | 26.9 | QP | Hor | 100.0 | 296.0 |
| 5* | 665.350MHz | 46.0 | 33.4 | -12.6 | 1.7 | 31.7 | QP | Hor | 100.0 | 196.0 |
| 6* | 954.410MHz | 46.0 | 36.7 | -9.3 | 1.1 | 35.6 | QP | Hor | 100.0 | 61.0 |

**Test Result: Pass**

## [TestMode: TX mode (SE) below 1G]; [Polarity: Vertical]

| | |
|---|---|
| Test Lab: BlueAsia EMC Lab（RE #1） | Project: BLA-EMC 202107-A25 |
| EUT: Tablet PC | Test Engineer: Charlie |
| M/N: T802 | Temperature: 25℃ |
| S/N: | Humidity: 45%RH |
| Test Mode: BLE mode | Test Voltage: AC 230V/50Hz |
| Note: | Test Data: 2021-07-27 15:41:40 |

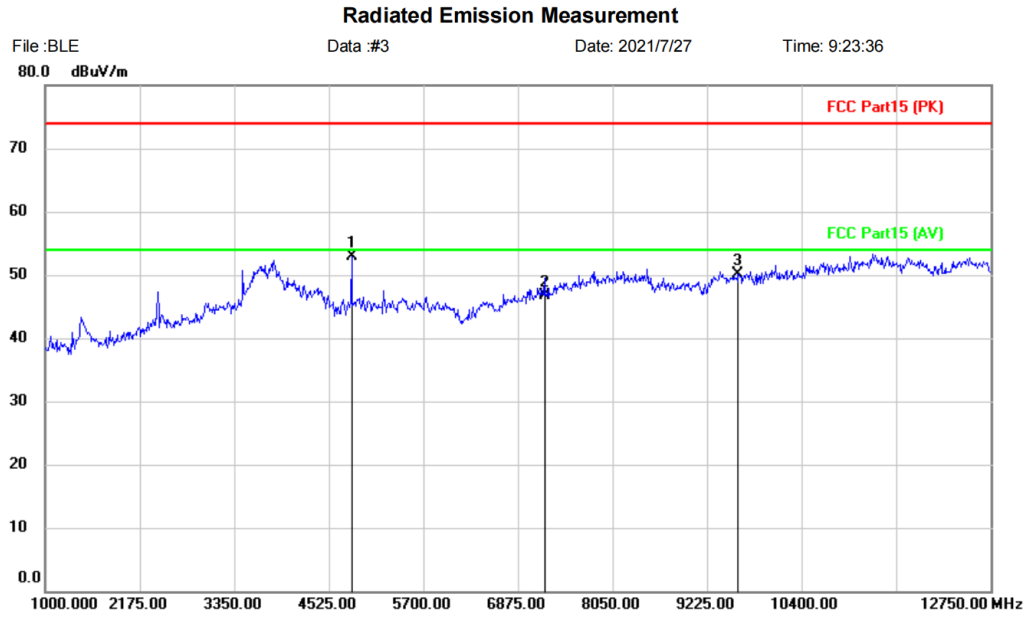



| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar | Height cm | Angle deg |
|---|---|---|---|---|---|---|---|---|---|---|
| 1* | 35.578MHz | 40.0 | 24.6 | -15.4 | 0.9 | 23.7 | QP | Ver | 100.0 | 134.0 |
| 2* | 73.286MHz | 40.0 | 21.5 | -18.5 | 0.6 | 20.9 | QP | Ver | 100.0 | 294.0 |
| 3* | 142.641MHz | 43.5 | 25.0 | -18.5 | 1.4 | 23.6 | QP | Ver | 100.0 | 200.0 |
| 4* | 352.040MHz | 46.0 | 27.6 | -18.4 | 1.9 | 25.7 | QP | Ver | 100.0 | 219.0 |
| 5* | 593.206MHz | 46.0 | 32.3 | -13.7 | 1.2 | 31.1 | QP | Ver | 100.0 | 254.0 |
| 6* | 951.258MHz | 46.0 | 37.0 | -9.0 | 1.4 | 35.6 | QP | Ver | 100.0 | 156.0 |

**Test Result: Pass**

TX mode (SE) Above 1G:

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




Site
Limit: FCC Part15 (PK)
EUT: Tablet PC
M/N: T802
Mode: TX-L
Note:

Polarization: ***Horizontal***
Power:
Distance:

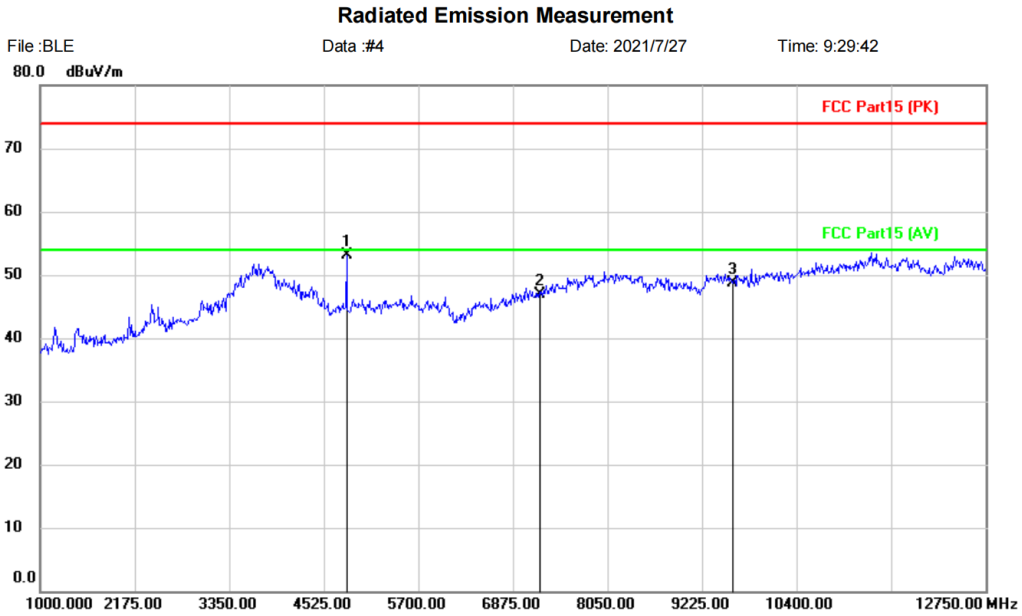
Temperature:
Humidity: %

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 4807.000 | 49.14 | 3.71 | 52.85 | 74.00 | -21.15 | peak | | | |
| 2 | | 7206.000 | 40.67 | 5.96 | 46.63 | 74.00 | -27.37 | peak | | | |
| 3 | | 9608.000 | 40.80 | 9.29 | 50.09 | 74.00 | -23.91 | peak | | | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

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




Site
Limit: FCC Part15 (PK)
EUT: Tablet PC
M/N: T802
Mode: TX-L
Note:

Polarization: *Vertical*
Power:
Distance:

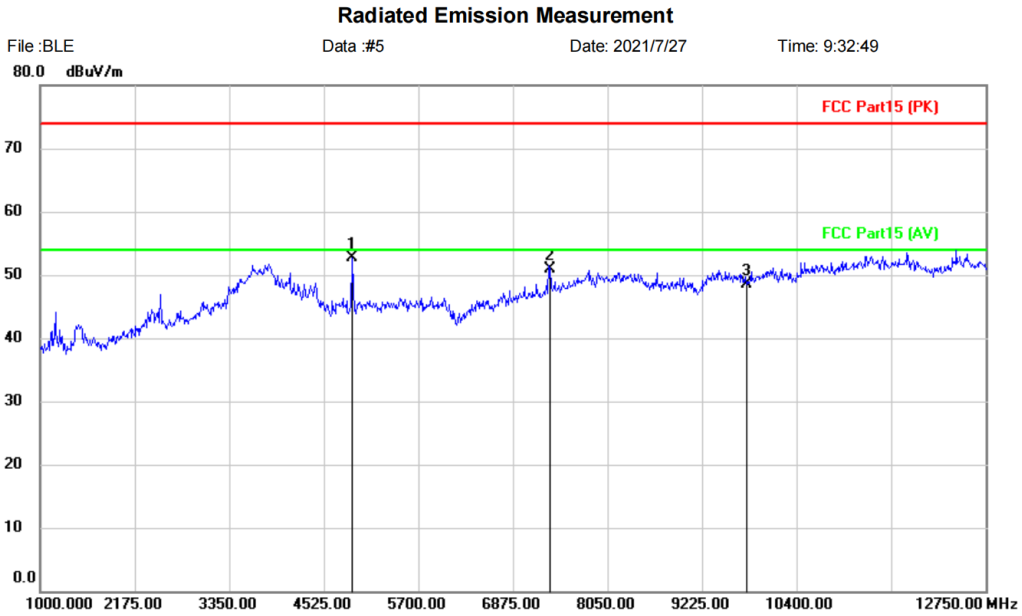
Temperature:
Humidity: %

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 4807.000 | 49.34 | 3.71 | 53.05 | 74.00 | -20.95 | peak | | | |
| 2 | | 7206.000 | 40.89 | 5.96 | 46.85 | 74.00 | -27.15 | peak | | | |
| 3 | | 9608.000 | 39.43 | 9.29 | 48.72 | 74.00 | -25.28 | peak | | | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

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



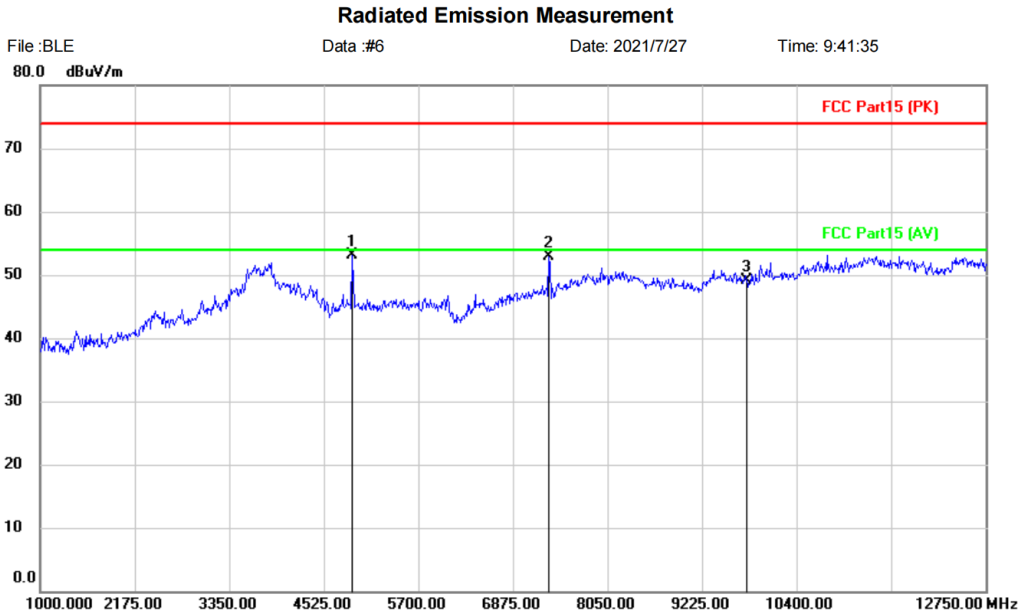

| | | |
|---|---|---|
| Site | Polarization: ***Vertical*** | Temperature: |
| Limit: FCC Part15 (PK) | Power: | Humidity: % |
| EUT: Tablet PC | Distance: | |
| M/N: T802 | | |
| Mode: TX-M | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 4877.500 | 49.39 | 3.37 | 52.76 | 74.00 | -21.24 | peak | | | |
| 2 | | 7326.000 | 44.56 | 6.44 | 51.00 | 74.00 | -23.00 | peak | | | |
| 3 | | 9768.000 | 38.85 | 9.63 | 48.48 | 74.00 | -25.52 | peak | | | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

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



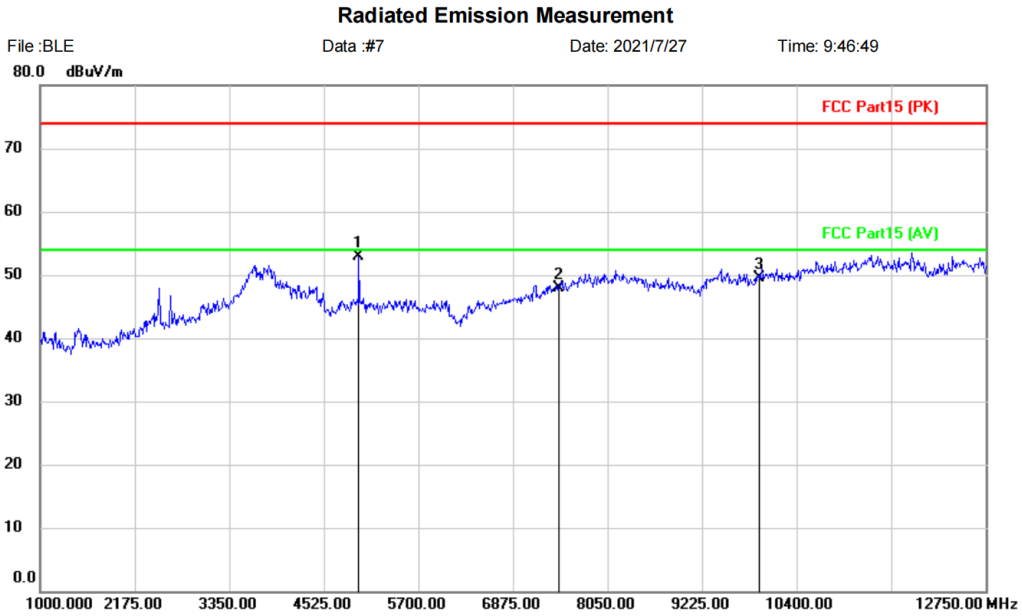

| | | |
|---|---|---|
| Site | Polarization: ***Horizontal*** | Temperature: |
| Limit: FCC Part15 (PK) | Power: | Humidity: % |
| EUT: Tablet PC | Distance: | |
| M/N: T802 | | |
| Mode: TX-M | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 4877.500 | 49.78 | 3.37 | 53.15 | 74.00 | -20.85 | peak | | | |
| 2 | | 7321.500 | 46.56 | 6.42 | 52.98 | 74.00 | -21.02 | peak | | | |
| 3 | | 9768.000 | 39.45 | 9.63 | 49.08 | 74.00 | -24.92 | peak | | | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

## [TestMode: TX Highest channel]; [Polarity: Horizontal]



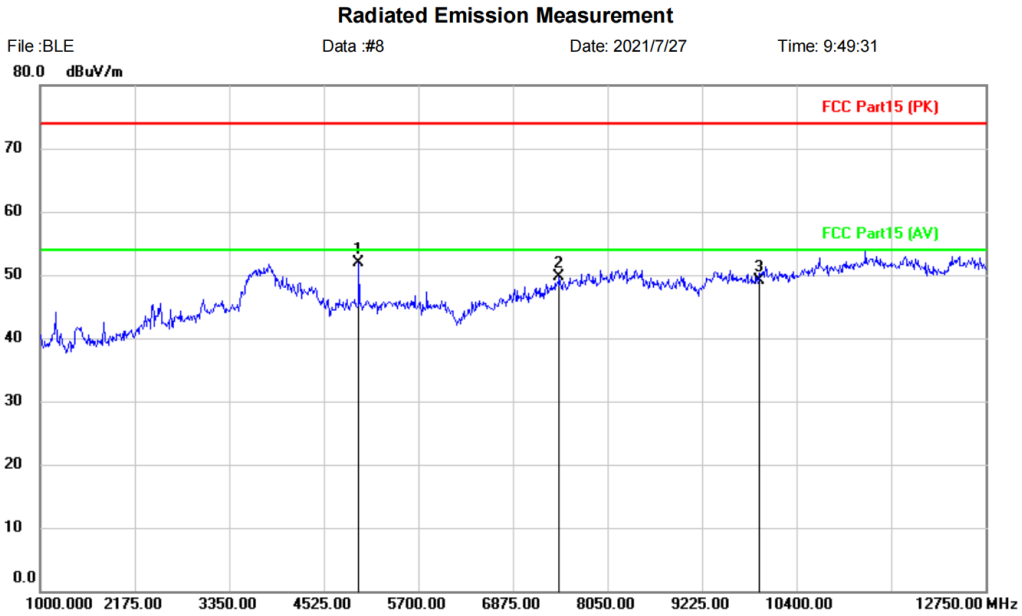

| | | |
|---|---|---|
| Site | Polarization: ***Horizontal*** | Temperature: |
| Limit: FCC Part15 (PK) | Power: | Humidity: % |
| EUT: Tablet PC | Distance: | |
| M/N: T802 | | |
| Mode: TX-H | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 4959.750 | 49.09 | 3.75 | 52.84 | 74.00 | -21.16 | peak | | | |
| 2 | | 7440.000 | 41.12 | 6.86 | 47.98 | 74.00 | -26.02 | peak | | | |
| 3 | | 9920.000 | 39.39 | 10.16 | 49.55 | 74.00 | -24.45 | peak | | | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

## [TestMode: TX Highest channel]; [Polarity: Vertical]




| | | |
|---|---|---|
| Site | Polarization: ***Vertical*** | Temperature: |
| Limit: FCC Part15 (PK) | Power: | Humidity: % |
| EUT: Tablet PC | Distance: | |
| M/N: T802 | | |
| Mode: TX-H | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 4959.750 | 48.12 | 3.75 | 51.87 | 74.00 | -22.13 | peak | | | |
| 2 | | 7440.000 | 42.94 | 6.86 | 49.80 | 74.00 | -24.20 | peak | | | |
| 3 | | 9920.000 | 38.89 | 10.16 | 49.05 | 74.00 | -24.95 | peak | | | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

# 13 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

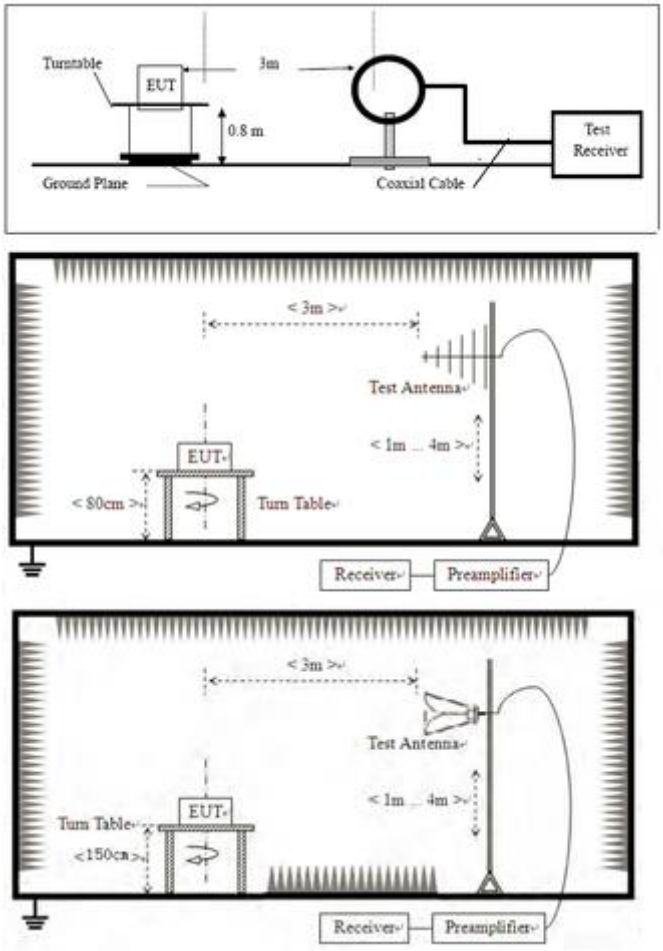
| | |
|---|---|
| **Test Standard** | 47 CFR Part 15, Subpart C 15.247 |
| **Test Method** | ANSI C63.10 (2013) Section 6.10.5 |
| **Test Mode (Pre-Scan)** | TX |
| **Test Mode (Final Test)** | TX |
| **Tester** | Jozu |
| **Temperature** | 25℃ |
| **Humidity** | 60% |

## 13.1 LIMITS

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|---|---|---|
| 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.

## 13.2 BLOCK DIAGRAM OF TEST SETUP



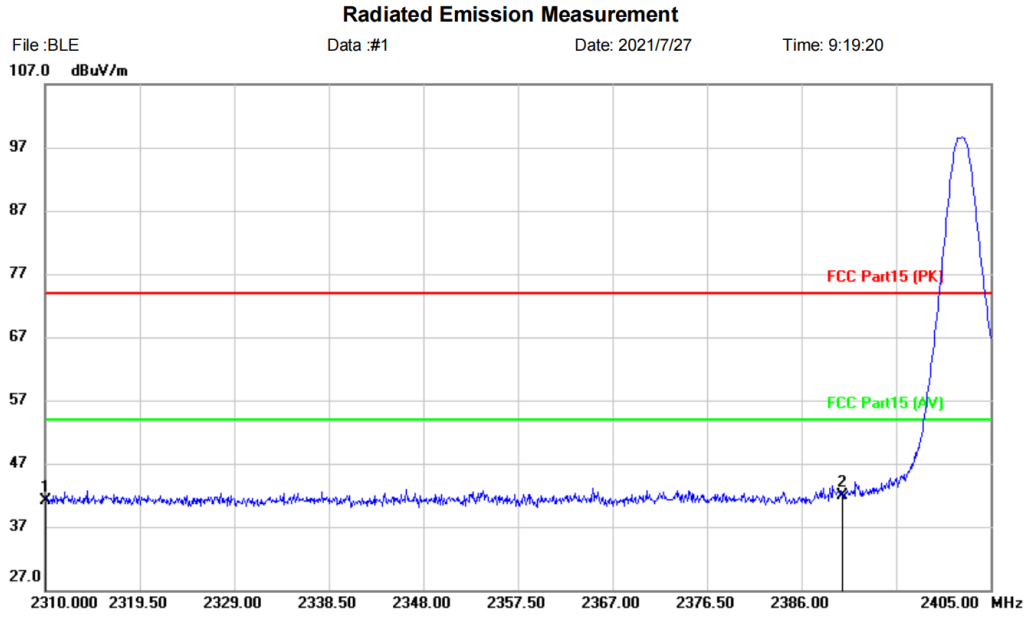

## 13.3 PROCEDURE

a. 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.
b. 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.
c. 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.
d. 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.
e. 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.
f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
g. 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp 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.

### 13.4 TEST DATA

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




Site
Limit: FCC Part15 (PK)
EUT: Tablet PC
M/N: T802
Mode: TX-L
Note:

Polarization: ***Horizontal***
Power:
Distance:

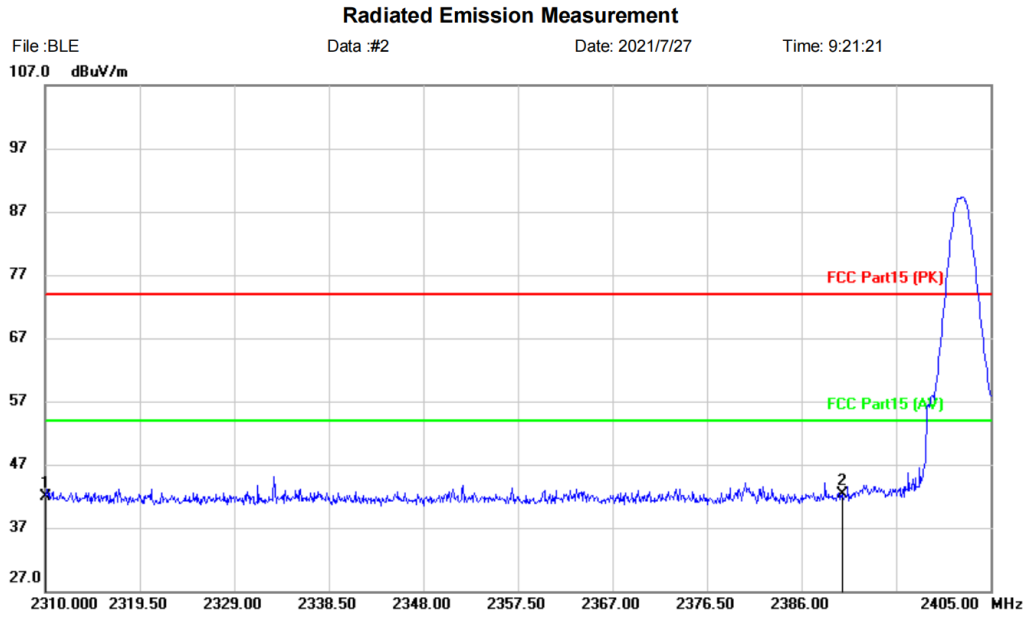
Temperature:
Humidity: %

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 2310.000 | 45.75 | -4.61 | 41.14 | 74.00 | -32.86 | peak | | | |
| 2 | * | 2390.000 | 46.12 | -4.27 | 41.85 | 74.00 | -32.15 | peak | | | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

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




Site
Limit: FCC Part15 (PK)
EUT: Tablet PC
M/N: T802
Mode: TX-L
Note:

Polarization: ***Vertical***
Power:
Distance:

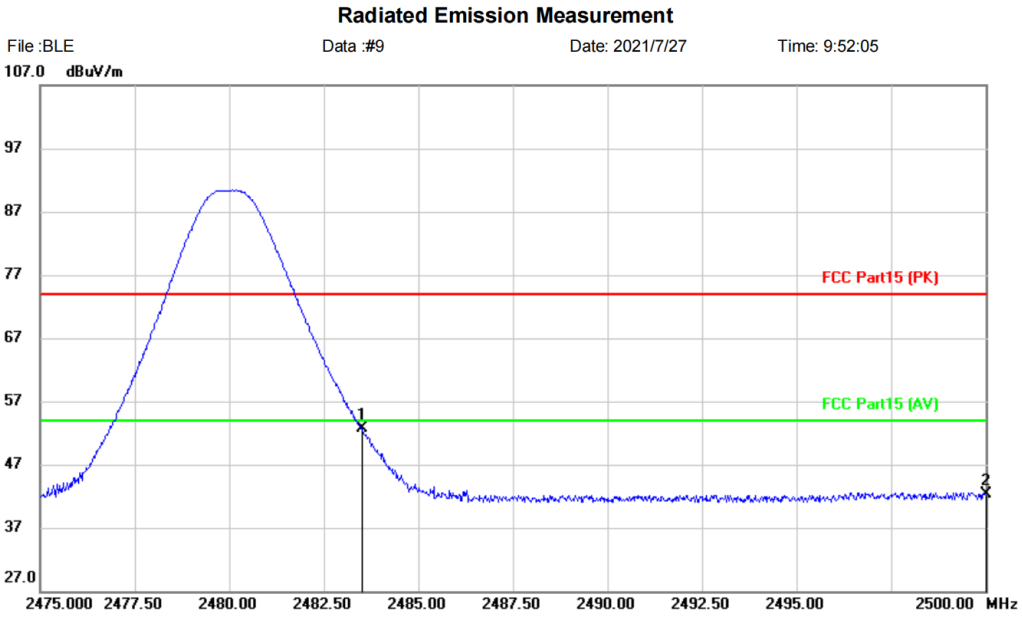
Temperature:
Humidity: %

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 2310.000 | 46.42 | -4.61 | 41.81 | 74.00 | -32.19 | peak | | | |
| 2 | * | 2390.000 | 46.57 | -4.27 | 42.30 | 74.00 | -31.70 | peak | | | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

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



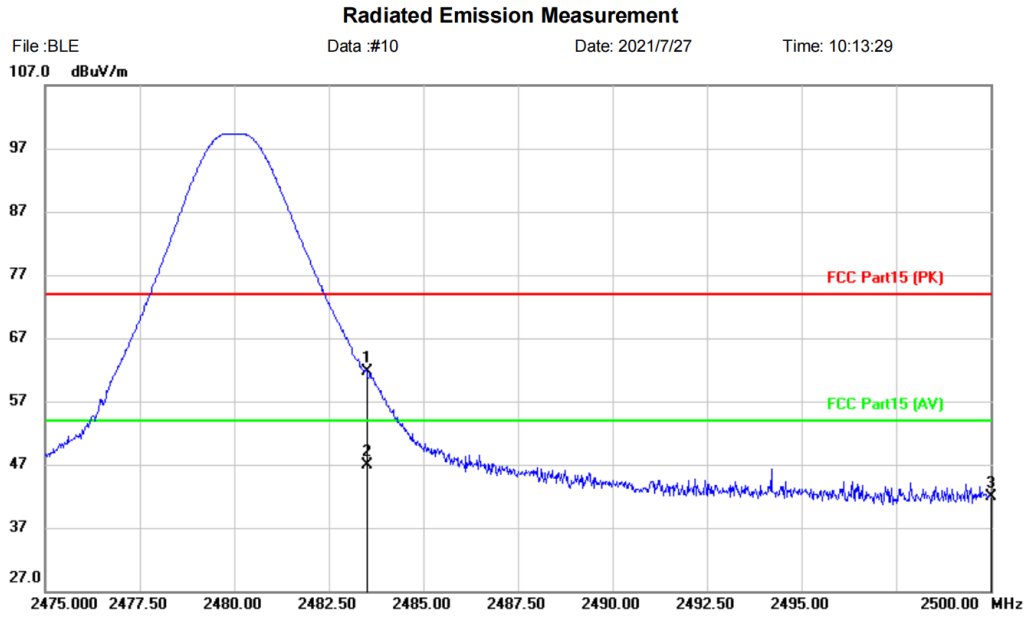

| | | |
|---|---|---|
| Site | Polarization: ***Vertical*** | Temperature: |
| Limit: FCC Part15 (PK) | Power: | Humidity: % |
| EUT: Tablet PC | Distance: | |
| M/N: T802 | | |
| Mode: TX-H | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 2483.500 | 56.57 | -3.84 | 52.73 | 74.00 | -21.27 | peak | | | |
| 2 | | 2500.000 | 46.15 | -3.78 | 42.37 | 74.00 | -31.63 | peak | | | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

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




| | | | |
|---|---|---|---|
| Site | Polarization: *Horizontal* | Temperature: | |
| Limit: FCC Part15 (PK) | Power: | Humidity: | % |
| EUT: Tablet PC | Distance: | | |
| M/N: T802 | | | |
| Mode: TX-H | | | |
| Note: | | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 2483.500 | 65.45 | -3.84 | 61.61 | 74.00 | -12.39 | peak | | | |
| 2 | * | 2483.500 | 50.66 | -3.84 | 46.82 | 54.00 | -7.18 | AVG | | | |
| 3 | | 2500.000 | 45.74 | -3.78 | 41.96 | 74.00 | -32.04 | peak | | | |

*:Maximum data x:Over limit !:over margin 〈Reference Only

**Test Result: Pass**

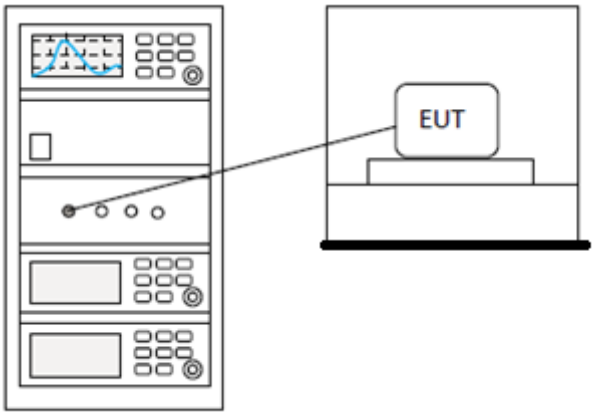
# 14 CONDUCTED SPURIOUS EMISSIONS

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

## 14.1 LIMITS

| | |
|---|---|
| **Limit:** | 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)). |

## 14.2 BLOCK DIAGRAM OF TEST SETUP



### 14.3 TEST DATA

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

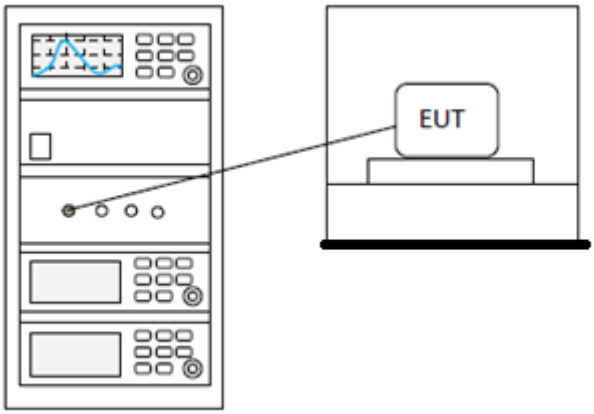
# 15 POWER SPECTRUM DENSITY

| | |
|---|---|
| **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℃ |
| **Humidity** | 60% |

## 15.1 LIMITS

| | |
|---|---|
| **Limit:** | ≤8dBm in any 3 kHz band during any time interval of continuous transmission |

## 15.2 BLOCK DIAGRAM OF TEST SETUP




## 15.3 TEST DATA

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

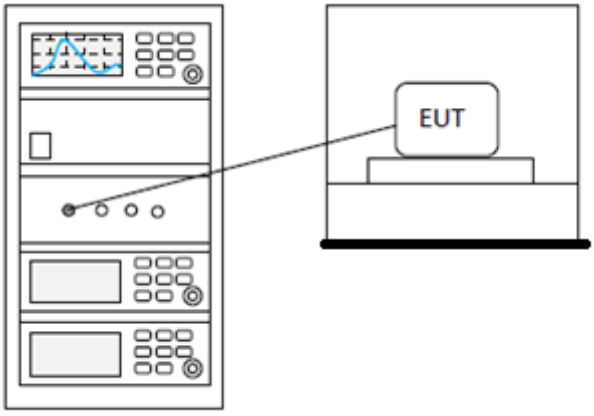
# 16 CONDUCTED PEAK OUTPUT POWER

| | |
|---|---|
| **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% |

## 16.1 LIMITS

| Frequency range(MHz) | Output power of the intentional radiator(watt) |
|---|---|
| 902-928 | 1 for ≥50 hopping channels |
| | 0.25 for 25≤ hopping channels <50 |
| | 1 for digital modulation |
| 2400-2483.5 | 1 for ≥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 |

## 16.2 BLOCK DIAGRAM OF TEST SETUP



### 16.3 TEST DATA

| Pass: Please Refer To Appendix: Appendix1 For Details |
|---|

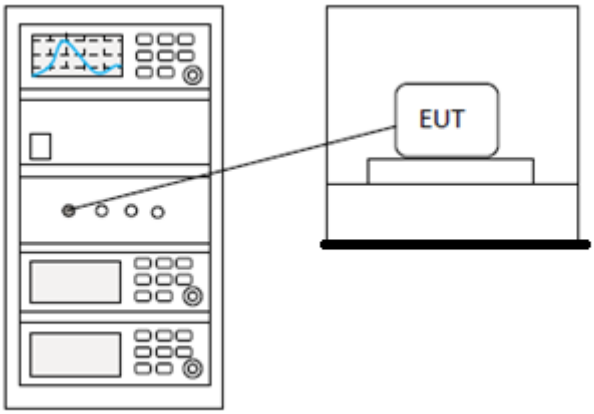
# 17 MINIMUM 6DB BANDWIDTH

| | |
|---|---|
| **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℃ |
| **Humidity** | 60% |

## 17.1 LIMITS

| | |
|---|---|
| **Limit:** | ≥500 kHz |

## 17.2 BLOCK DIAGRAM OF TEST SETUP




## 17.3 TEST DATA

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

# 18 ANTENNA REQUIREMENT

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

## 18.1 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 a 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 2.1dBi.

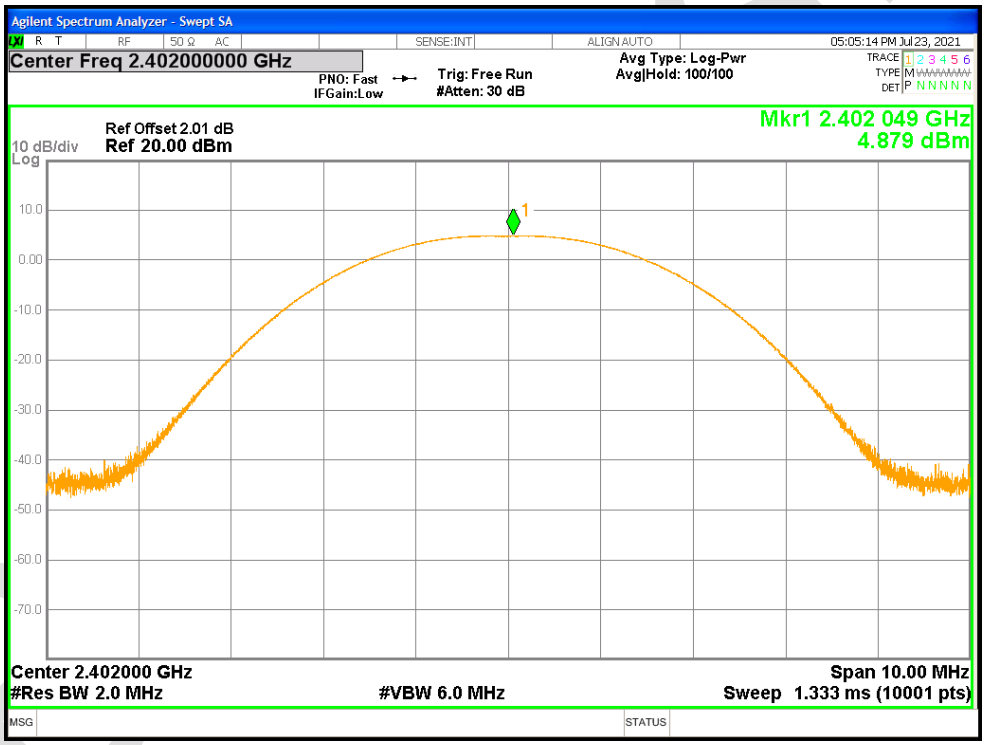
# 19 APPENDIX

## Appendix1

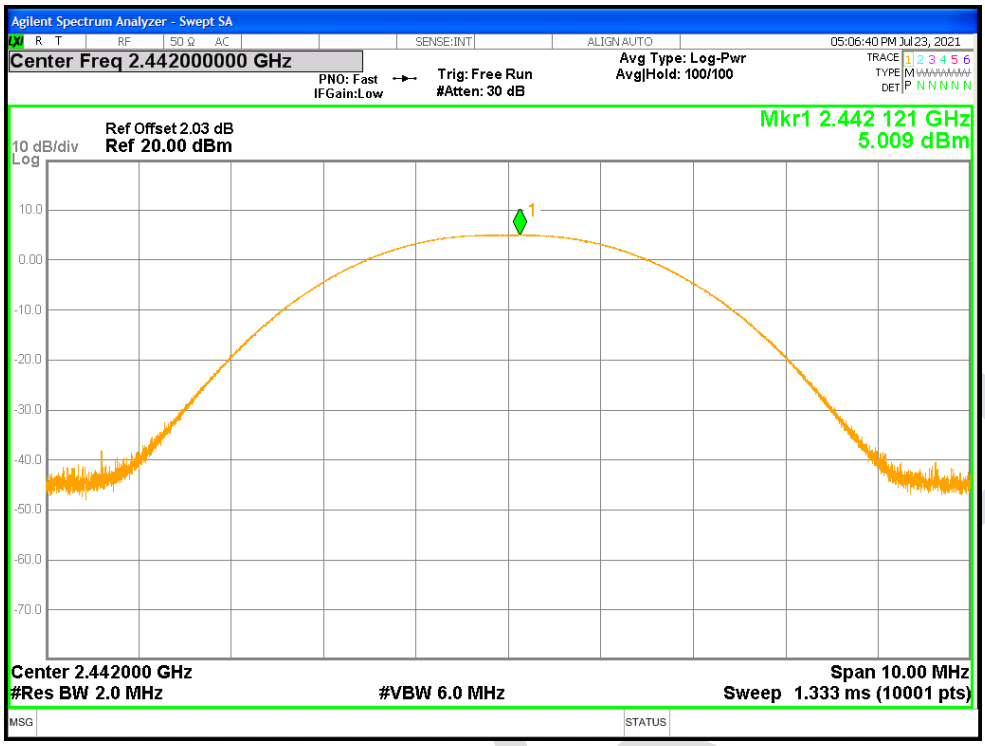
**Maximum Conducted Output Power**

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Total Power (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| NVNT | BLE 1M | 2402 | Ant1 | 4.879 | 4.879 | 30 | Pass |
| NVNT | BLE 1M | 2442 | Ant1 | 5.009 | 5.009 | 30 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 5.005 | 5.005 | 30 | Pass |

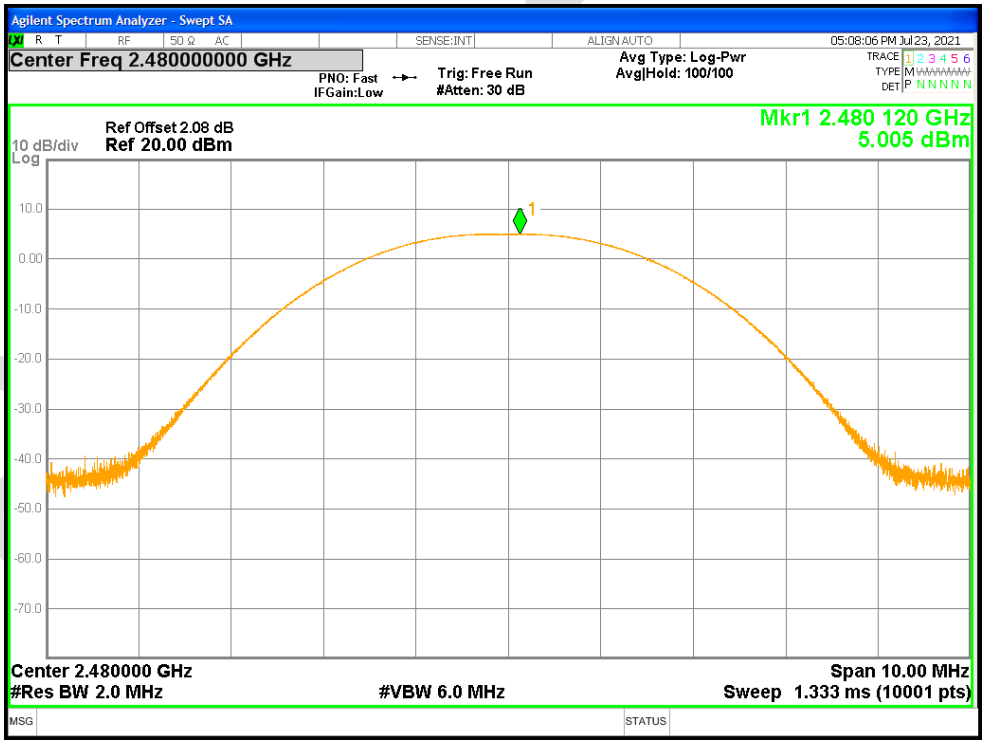
Power NVNT BLE 1M 2402MHz Ant1




Power NVNT BLE 1M 2442MHz Ant1



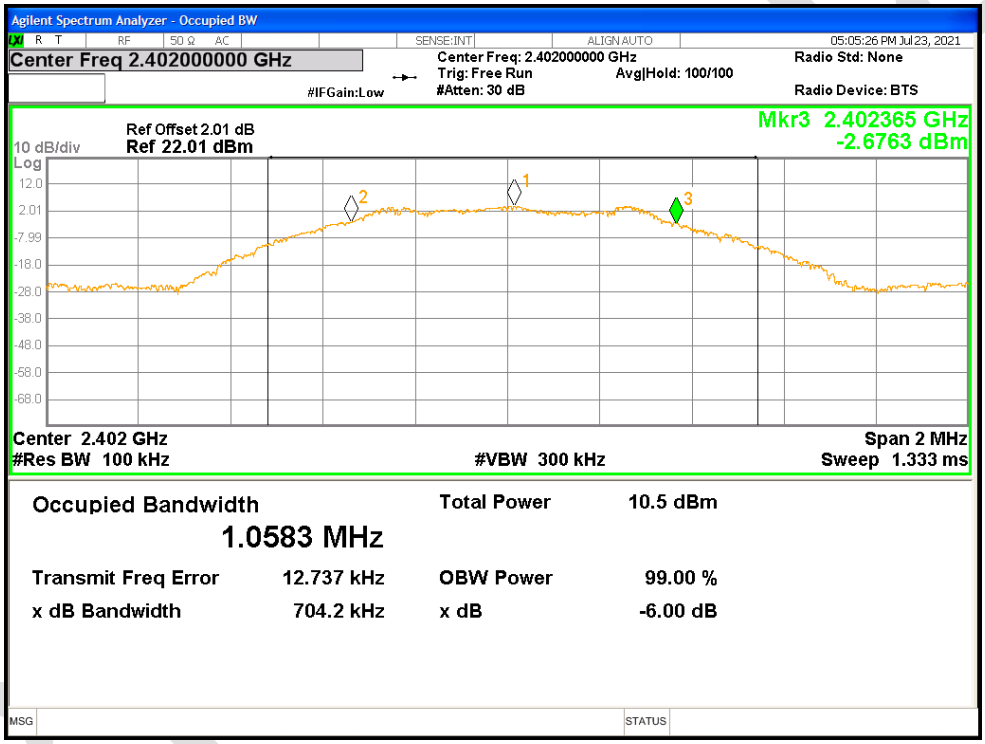

Power NVNT BLE 1M 2480MHz Ant1



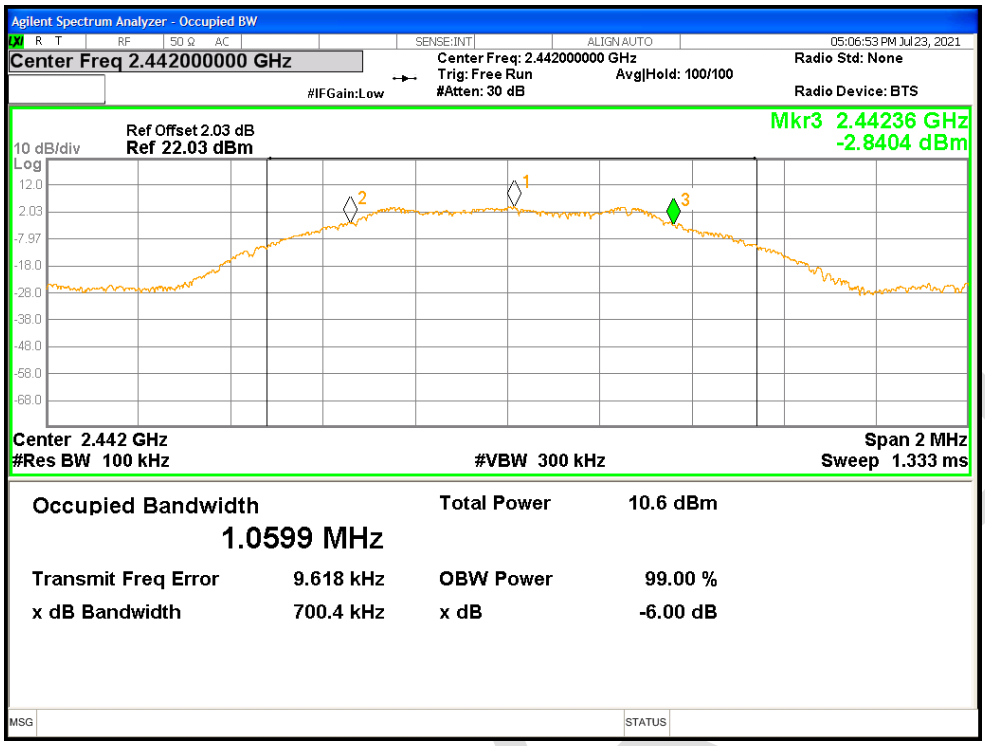
**-6dB Bandwidth**

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | BLE 1M | 2402 | Ant1 | 0.704 | 0.5 | Pass |
| NVNT | BLE 1M | 2442 | Ant1 | 0.7 | 0.5 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 0.704 | 0.5 | Pass |

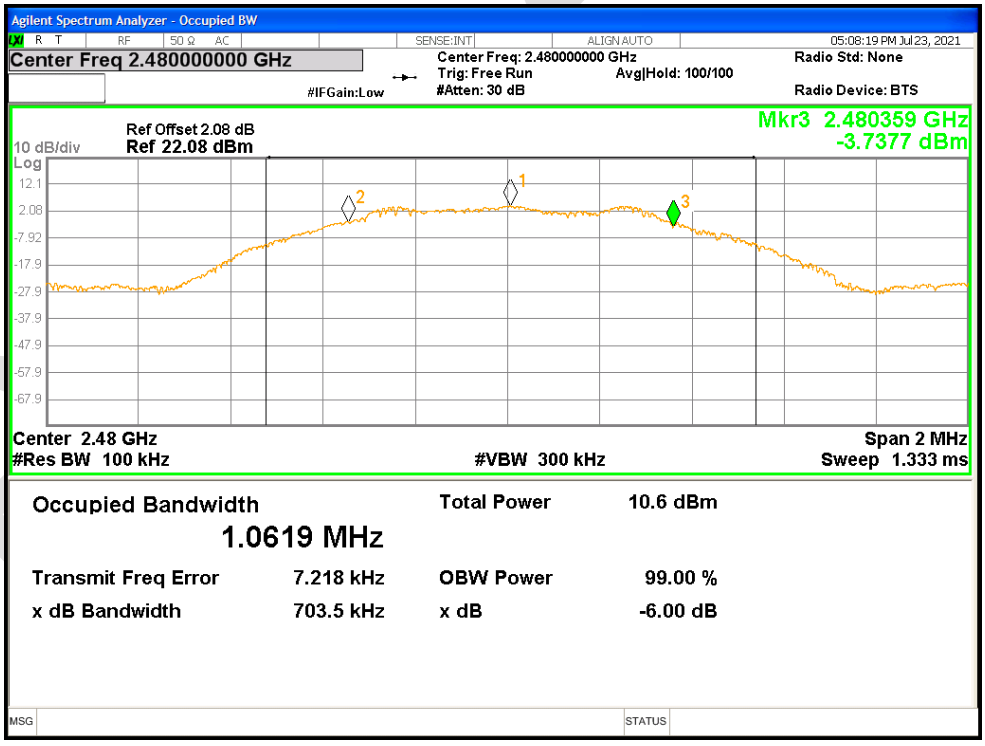
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1




-6dB Bandwidth NVNT BLE 1M 2442MHz Ant1



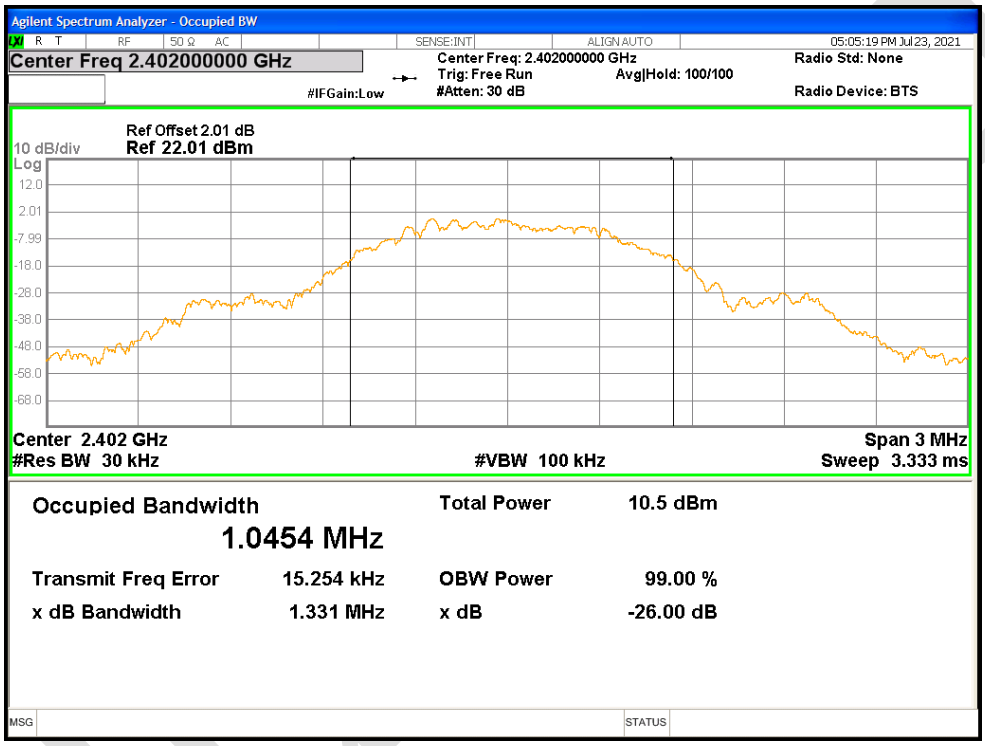

-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



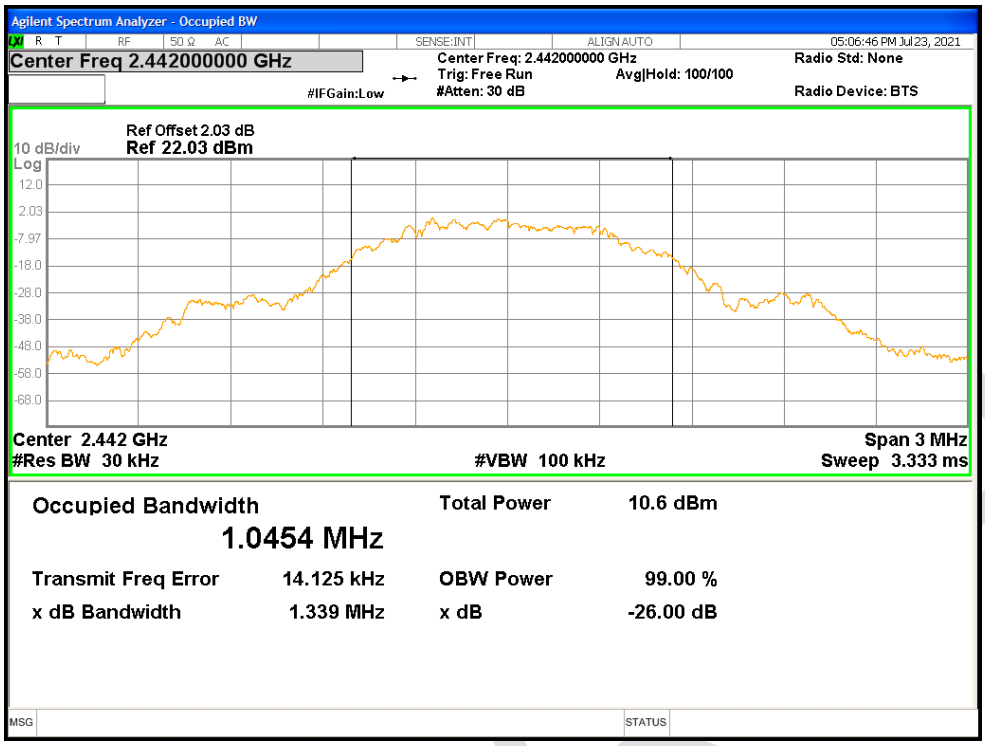
**Occupied Channel Bandwidth**

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|---|---|---|---|---|
| NVNT | BLE 1M | 2402 | Ant1 | 1.045371734 |
| NVNT | BLE 1M | 2442 | Ant1 | 1.045408698 |
| NVNT | BLE 1M | 2480 | Ant1 | 1.04481301 |

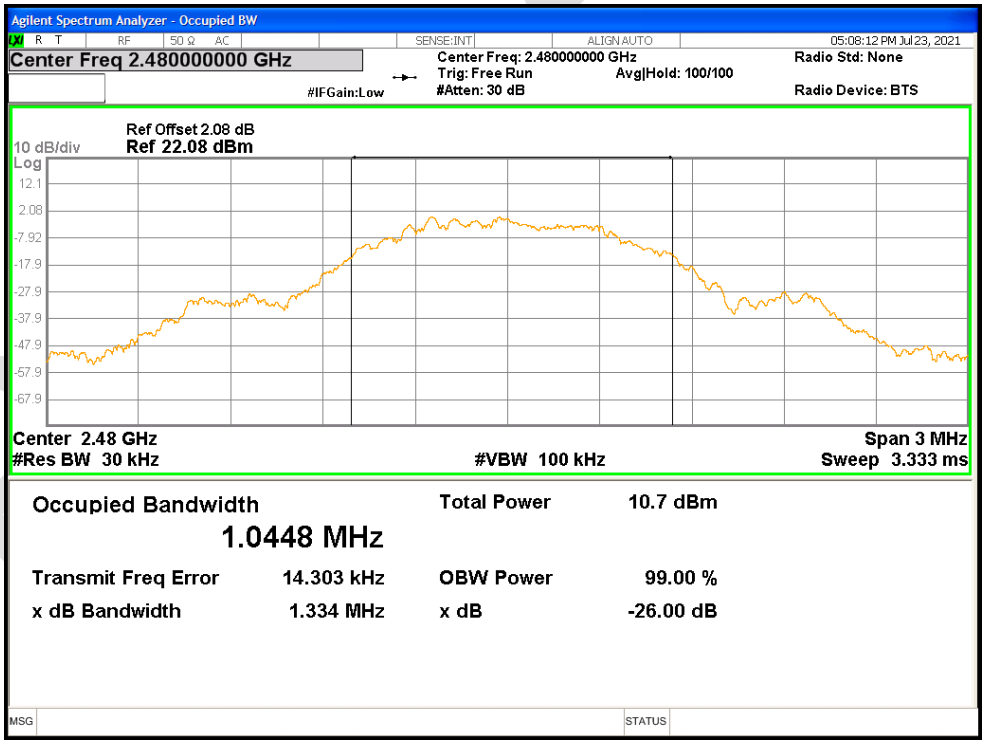
OBW NVNT BLE 1M 2402MHz Ant1




OBW NVNT BLE 1M 2442MHz Ant1



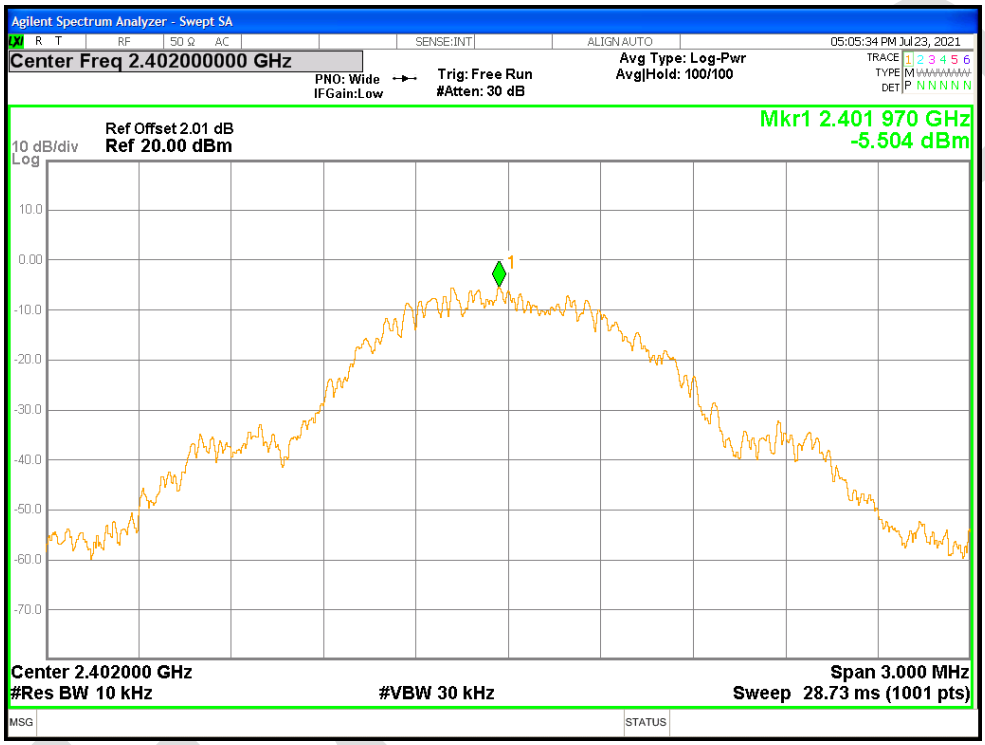

OBW NVNT BLE 1M 2480MHz Ant1



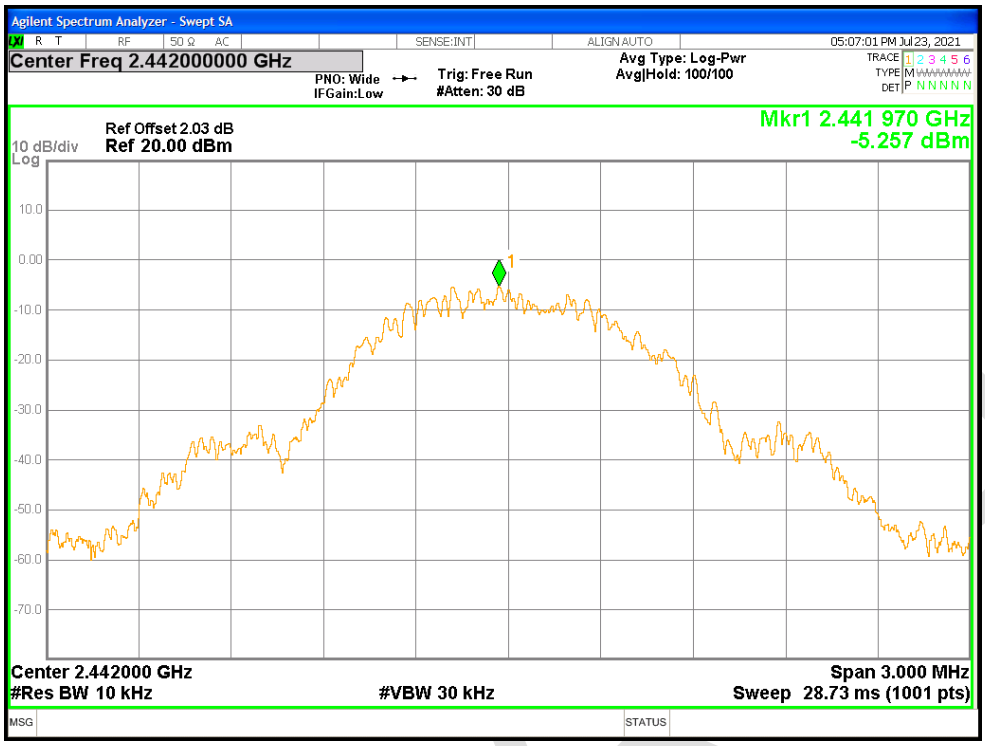
**Maximum Power Spectral Density Level**

| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | BLE 1M | 2402 | Ant1 | -5.504 | 8 | Pass |
| NVNT | BLE 1M | 2442 | Ant1 | -5.257 | 8 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -5.217 | 8 | Pass |

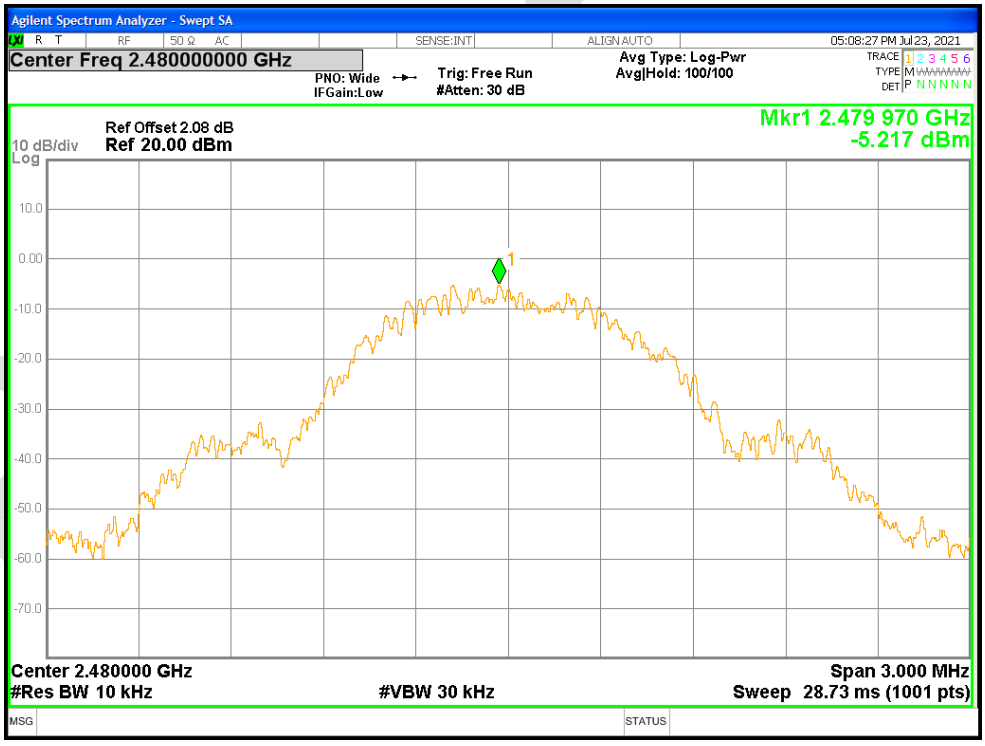
PSD NVNT BLE 1M 2402MHz Ant1




PSD NVNT BLE 1M 2442MHz Ant1



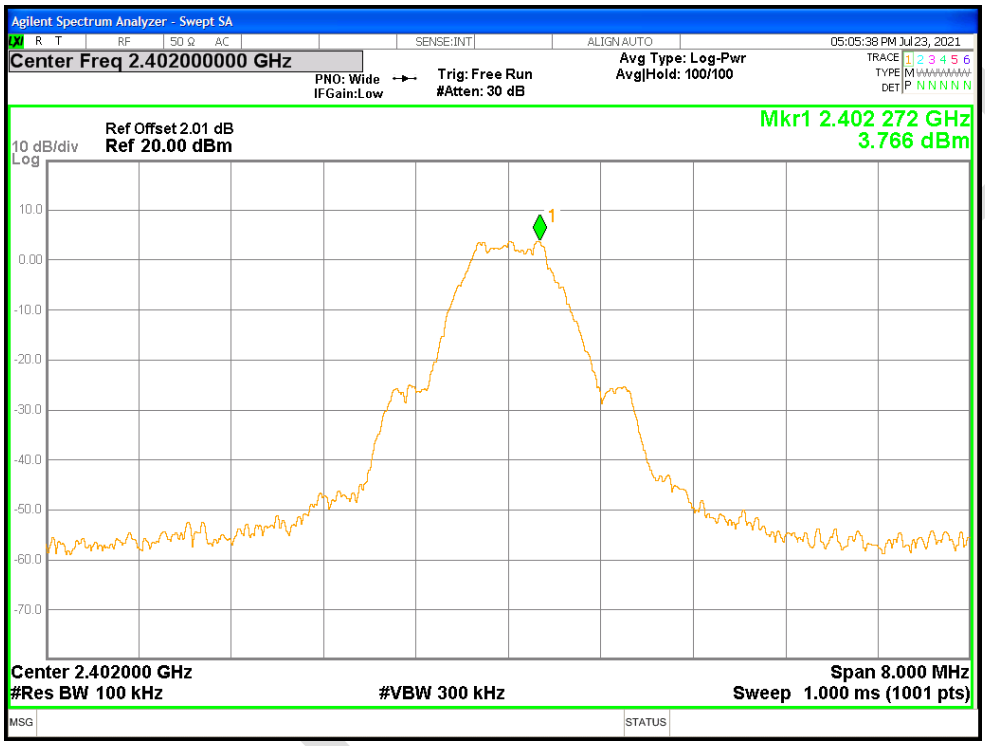

PSD NVNT BLE 1M 2480MHz Ant1



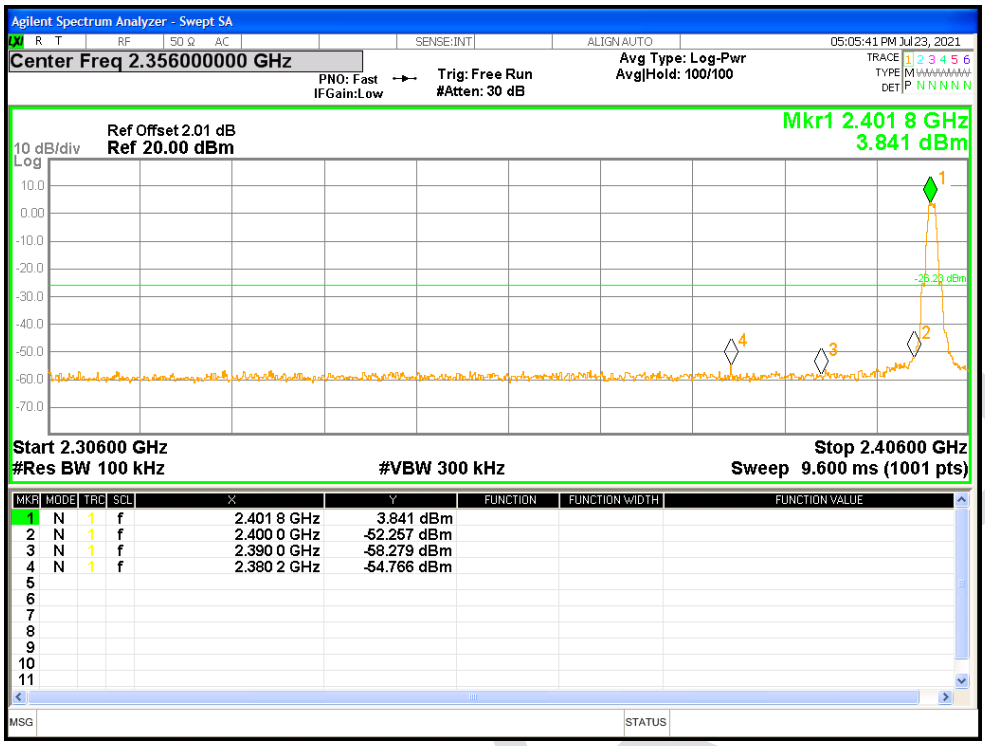
**Band Edge**

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | BLE 1M | 2402 | Ant1 | -58.53 | -30 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -58.59 | -30 | Pass |

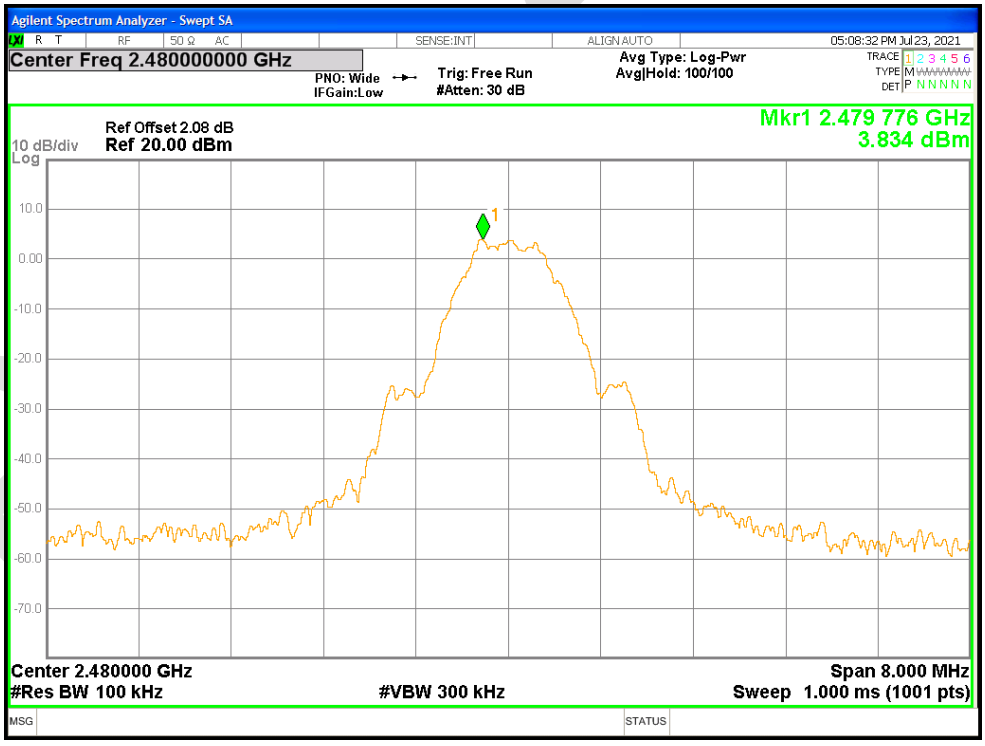
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



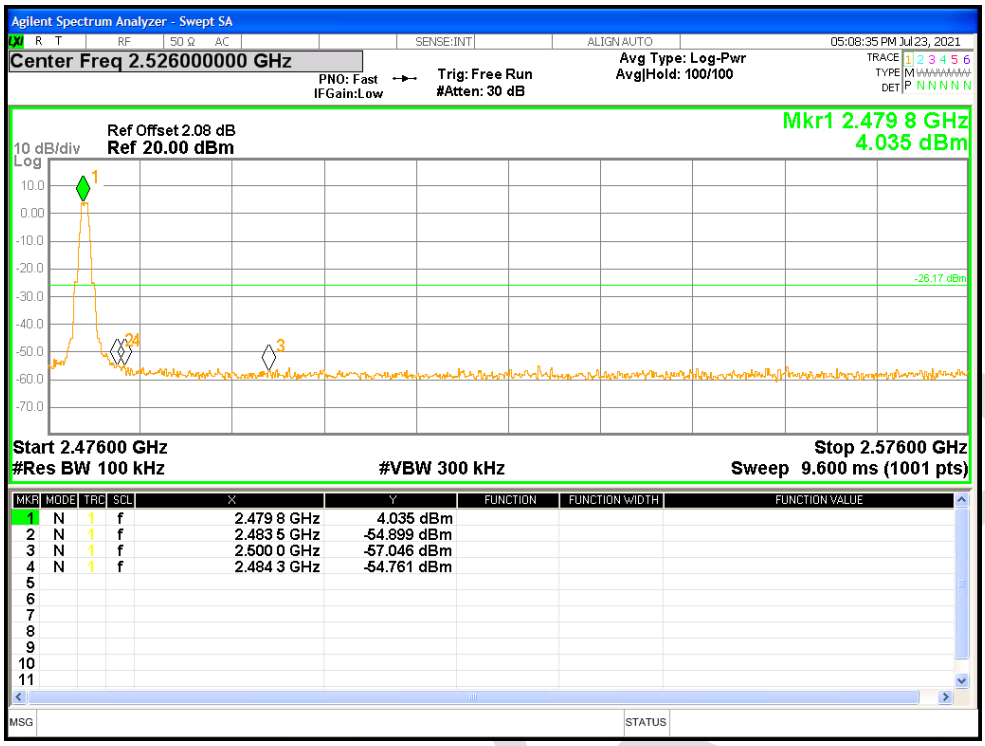

Band Edge NVNT BLE 1M 2402MHz Ant1 Emission




Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



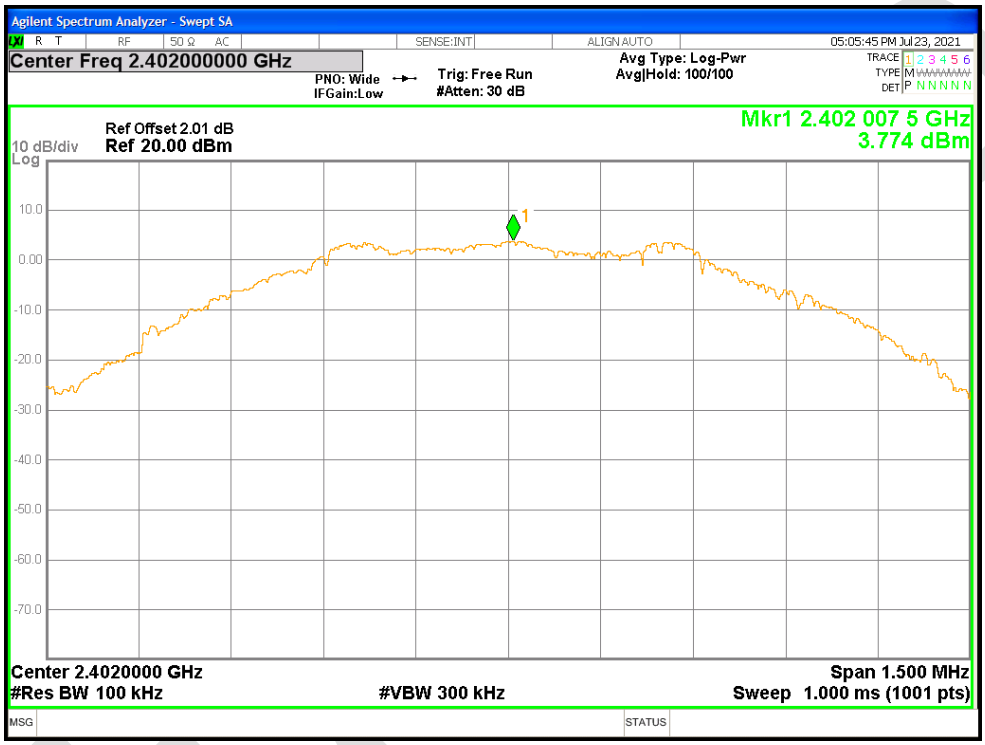

Band Edge NVNT BLE 1M 2480MHz Ant1 Emission


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.526000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
05:08:35 PM Jul 23, 2021
Ref Offset 2.08 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 2.479 8 GHz
4.035 dBm
-26.17 dBm
Start 2.47600 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.57600 GHz
Sweep 9.600 ms (1001 pts)
1 N 1 f 2.479 8 GHz 4.035 dBm
2 N 1 f 2.483 5 GHz -54.899 dBm
3 N 1 f 2.500 0 GHz -57.046 dBm
4 N 1 f 2.484 3 GHz -54.761 dBm

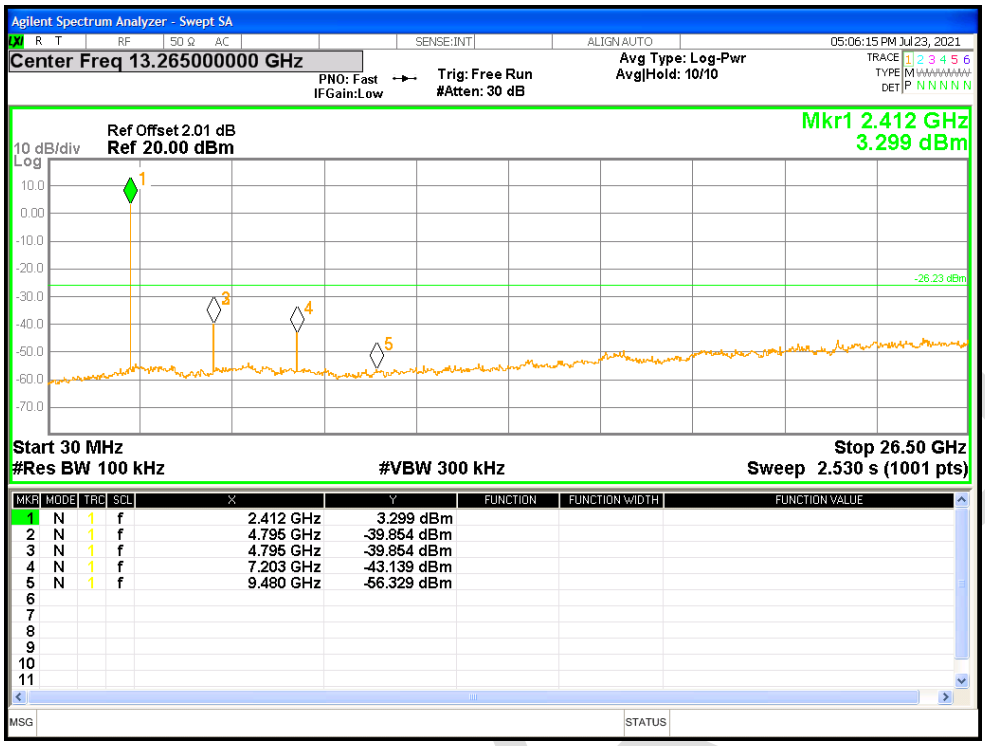
**Conducted RF Spurious Emission**

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | BLE 1M | 2402 | Ant1 | -43.62 | -30 | Pass |
| NVNT | BLE 1M | 2442 | Ant1 | -41.47 | -30 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -42.36 | -30 | Pass |

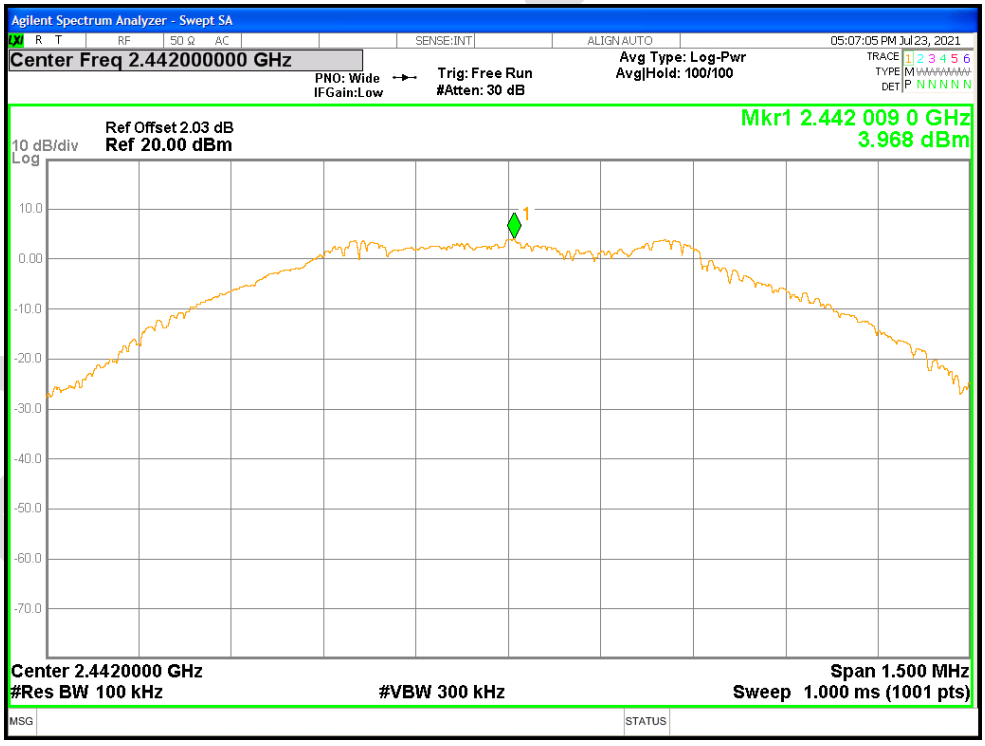
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



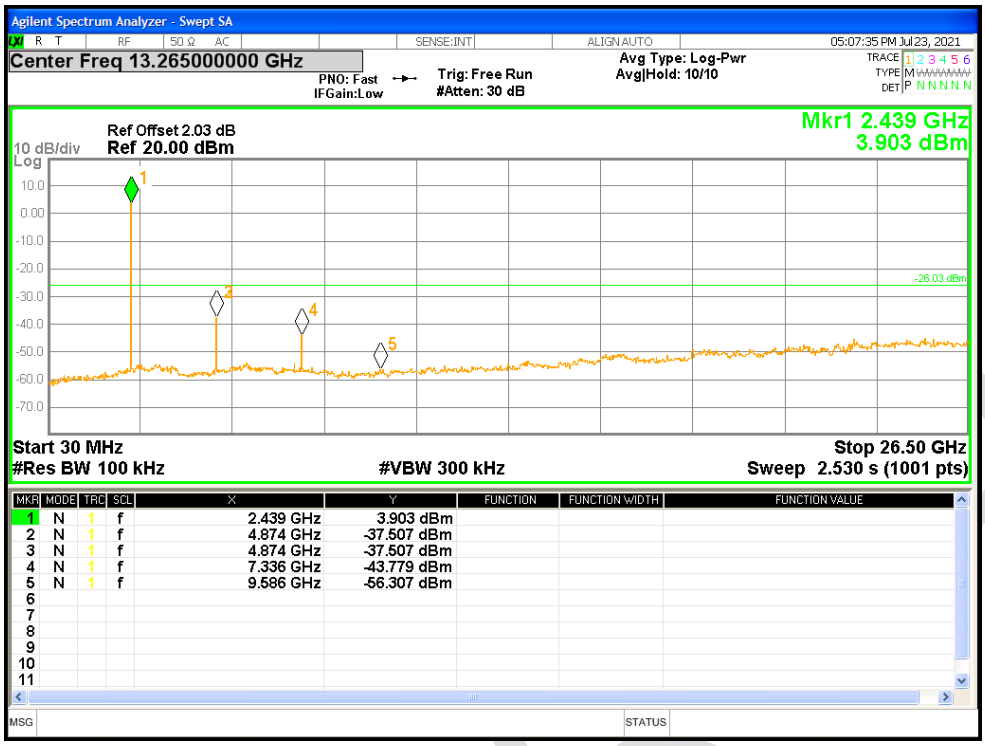

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



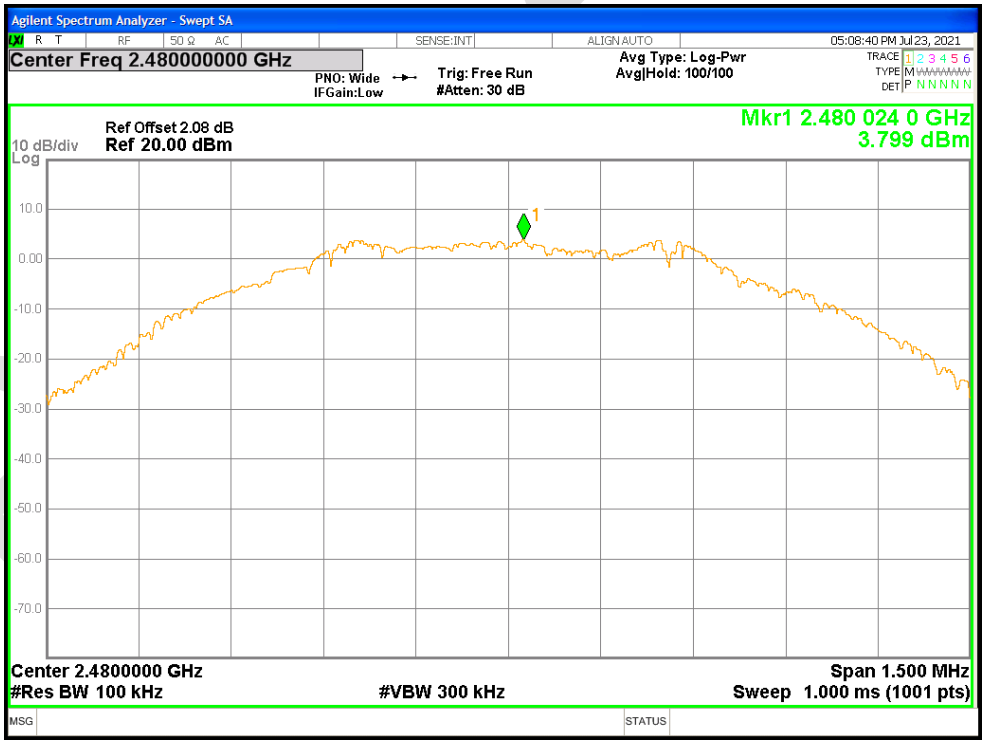

Tx. Spurious NVNT BLE 1M 2442MHz Ant1 Ref



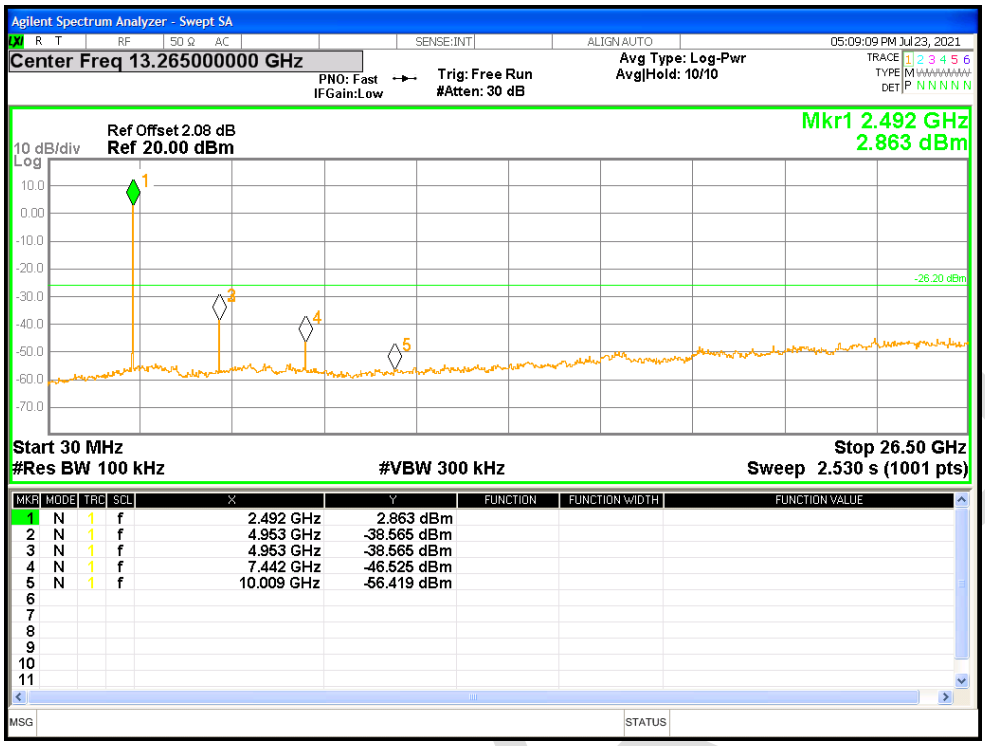

Tx. Spurious NVNT BLE 1M 2442MHz Ant1 Emission




Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



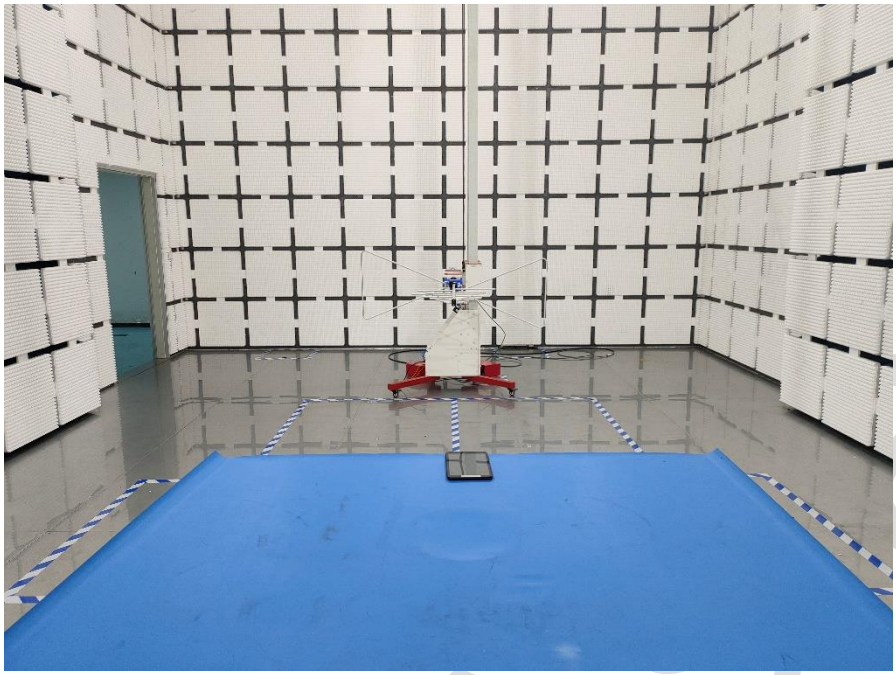

Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.265000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
05:09:09 PM Jul 23, 2021
Ref Offset 2.08 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.492 GHz
2.863 dBm
-26.20 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.530 s (1001 pts)
1 N 1 f 2.492 GHz 2.863 dBm
2 N 1 f 4.953 GHz -38.565 dBm
3 N 1 f 4.953 GHz -38.565 dBm
4 N 1 f 7.442 GHz -46.525 dBm
5 N 1 f 10.009 GHz -56.419 dBm

# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

**Conducted Emissions at AC Power Line (150kHz-30MHz)**

**Radiated Spurious Emissions**



## APPENDIX B: PHOTOGRAPHS OF EUT

Reference to the test report No. BLA-EMC-202107-A2501

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