**ITL Co., Ltd.**

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Report Template Version: V02
Report Template Revision Date: 2021-06-01

# Test Report

| | |
|---|---|
| **Report No.:** | D220319006 |
| **Applicant:** | Shenzhen Baseus Technology Co., Ltd. |
| **Address of Applicant:** | 2th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen. |
| **Equipment Under Test (EUT):** | |
| **EUT Name:** | Wireless Charger |
| **Model No.:** | BS-W527 |
| **Brand Name:** | Baseus |
| **FCC ID:** | 2A482-W527 |
| **Date of Receipt:** | 2022-03-19 |
| **Date of Test:** | 2022-03-19 to 2022-05-17 |
| **Date of Issue:** | 2022-05-17 |
| **Test Result:** | **PASS*** |

***In the configuration tested, the EUT complied with the standards specified above**

***Tested By:*** Damon
***( Damon Deng)***

***Reviewed By:*** Ares Liu
***( Ares Liu)***

***Approved By:*** Victor
***( Victor Meng )***

# 1 Version

**Revision History Of Report**

| Report No. | Version | Description | Issue Date |
|---|---|---|---|
| D220319006 | Rev.01 | Initial report | 2022-05-16 |

# 2 Test Summary

| Test | Test Requirement | Test method | Result |
|---|---|---|---|
| Antenna Requirement | FCC PART 15 section 15.203 | FCC PART 15 section 15.203 | PASS |
| Radiated Emission | FCC PART 15 section 15.209 | ANSI C 63.10 | PASS |
| Conducted Emission | FCC PART 15 section 15.207 | ANSI C 63.10 | PASS |
| Emission Bandwidth | FCC PART 15 section 15.215(c) | ANSI C 63.10 | PASS |
| **Remark:** | | | |
| N/A: because the device is battery operated.<br>EUT: In this whole report EUT means Equipment Under Test.<br>Tx: In this whole report Tx (or tx) means Transmitter.<br>Rx: In this whole report Rx (or rx) means Receiver.<br>RF: In this whole report RF means Radio Frequency.<br>ANSI C63.10: the detail version is ANSI C63.10:2013 in the whole report. | | | |

N/A: In this whole report not application.

# 3 Contents

Page

# 4 General Information

## 4.1 Details of Client

| | |
|---|---|
| Applicant: | Shenzhen Baseus Technology Co., Ltd. |
| Address of Applicant: | 2th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen. |
| Manufacturer: | Shenzhen Baseus Technology Co., Ltd. |
| Address of Manufacturer: | 2th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen. |
| Factory: | DongGuan AnJu Electronic Technology Co., Ltd. |
| Address of Factory: | 3Foor No.1 Hexie Road, Shanwu village, Shijie town, Dongguan city, Guangdong Province, China |

## 4.2 Datasheet of Equipment Under Test

| | |
|---|---|
| Product Name: | Wireless Charger |
| Model No.: | BS-W527 |
| Trade Mark: | Baseus |
| Operation Frequency range | 115-205kHz |
| Antenna Type: | Coil Antenna |
| Power Supply: | 9V 2A，12V 2A |

## 4.3 Test Environment

| Operating Environment: | |
|---|---|
| Temperature: | 25.0 °C |
| Humidity: | 53 % RH |
| Atmospheric Pressure: | 995mbar |
| EUT Power Supply: | 120Vac, 60Hz (For adapter) |
| Test Mode: | Communication and charging<br>Pre-test at both DC 9V and DC 12V, recorded worst case<br>All the situation (full load, half load and empty load) has been tested, only the worst situation (full load) was recorded in the report. |

## 4.4 Description of Support Units

The EUT has been tested with associated equipment below.

| Description | Manufacturer | Model No. | Connection | Working state |
|---|---|---|---|---|
| Wireless Charging load | YBZ | 5W/7.5W/10W /15W | / | Normal |
| Adapter | HUAWEI | HW-200325CP0<br>Input: 100-240V~50/60Hz<br>Output:5Vdc, 2A, 9V, 2A, 12Vdc, 2A, 15Vdc, 3A, 20Vdc, 3.25A | / | Normal |

## 4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **ITL Co., LTD.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for **ITL** laboratory is reported:

| Test | Range | Uncertainty | Notes |
|---|---|---|---|
| Radiated Emission | Below 1GHz | ±4.54dB | (1) |
| Radiated Emission | Above 1GHz | ±4.10dB | (1) |
| Conducted | 0.15~30MHz | ±3.58dB | (1) |

| | | | |
|---|---|---|---|
| Disturbance | | | |

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 4.6 Test Location

ITL Co., Ltd
No.8, JinQianLing street 5, Huangjiang Town, Dongguan,
Guangdong, 523757 P.R.C

## 4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS( Lab code: L9342)**
- **NVLAP LAB CODE 600199-0**
- **FCC Designation Number: CN5035**
- **FCC Test Firm Registration Number: 239076**

## 4.8 Abnormalities from Standard Conditions

None.

## 4.9 Other Information Requested by the Customer

None.

## 4.10 Equipment List

| No. | Test Equipment | Manufacturer | Model | Serial No. | Cal Data | Due Date |
|---|---|---|---|---|---|---|
| DGITL - 301 | Semi-Anechoic chamber | ETS•Lindgren | 9*6*6 | CT000874-1181 | 2021.08.02 | 2022.08.01 |
| DGITL - 307 | EMI test receiver | SCHWARZBECK | ESVS10 | 833616 /003 | 2021.05.11 | 2022.05.10 |
| DGITL -376 | Wideband Radio Communication Tester | SCHWARZBECK | CMW500 | LR114195 | 2021.05.11 | 2022.05.10 |
| DGITL -349 | MXG Vector Signal Generator | Agilent Technologies | N5182A | MY47071034 | 2021.05.11 | 2022.05.10 |
| DGITL - 306 | Spectrum Analyzer | Agilent Technologies | N9010A | MY54200334 | 2021.05.11 | 2022.05.10 |
| DGITL - 352 | Pre Amplifier | Mlnl-Clrcuits | ZFC-1000HX | SN292801110 | 2021.05.11 | 2022.05.10 |
| DGITL -375 | Spectrum Analyzer | SCHWARZBECK | FSV40-N | 6625-01-588-5515 | 2021.05.11 | 2022.05.10 |
| DGITL -309 | Horn Antenna | ETS Lindgren | 3117 | SN00152265 | 2021.05.11 | 2024.05.10 |
| DGITL -308 | Bilog Antenna | ETS· Lindgren | 3142E | 156975 | 2020.06.20 | 2023.06.19 |
| DGITL -350 | Wideband Amplifier Super Ultra | Mlnl-Clrcuits | ZVA-183X-S+ | SN986401426 | 2021.05.11 | 2022.05.10 |
| DGITL -365 | Broad-band Horn Antenna | SCHWARZBECK | 9170 | 795 | 2020.07.04 | 2022.07.04 |
| DGITL -371 | Pre Amplifier | teramicrowave | TALA-0040G35 | 18081001 | 2021.05.11 | 2022.05.10 |
| DGITL -363 | Active Loop Antenna | SCHWARZBECK | FMZB 1519B | 062 | 2020.07.04 | 2022.07.03 |

| Software list | | | |
|---|---|---|---|
| **Testing software** | **Manufacturer** | **Model** | **Version number** |
| e3 | AUDIX | e3.Ink | Version:6.2009-11-3c(itl) |
| MTS | MWRFTEST | MTS 8310 | Version:2.0 |

# 5 Antenna Requirement

According to FCC Part 15.203, 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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

**Test Result**

This product uses permanently attached internal coil antenna that meets the requirement in 15.203

# 6 Conducted Emissions at Mains Terminals 150 kHz to 30MHz

**For AC Main Port**

**Test Requirement:** § 15.207(a)

**Test Method:** § 15.207(a)

**Detector:** Peak for pre-scan (9kHz Resolution Bandwidth)

Quasi-Peak if maximized peak within 6dB of Quasi-Peak limit

**EUT Operation:**

Ambient: Temp.: 20.8°C Humid.: 51% Press.: 1009 mbar

Test Mode: Communication and charging

Test Status: All the situation (full load, half load and empty load) has been tested, only the worst situation (full load) was recorded in the report.

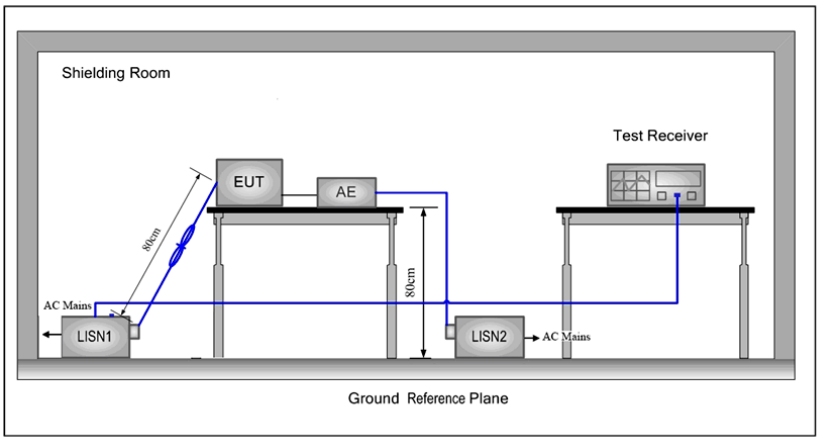
**Equipment Used:** Refer to section 5 for details.

**Limit:**

Limits for conducted disturbance at the mains ports of class B

| Frequency Range (MHz) | Class B Limit (dBμV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |
| NOTE 1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. | | |
| NOTE 2: The lower limit is applicable at the transition frequency. | | |

**Test Setup:**




**Test 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 50Ω/50μH + 5Ω 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.

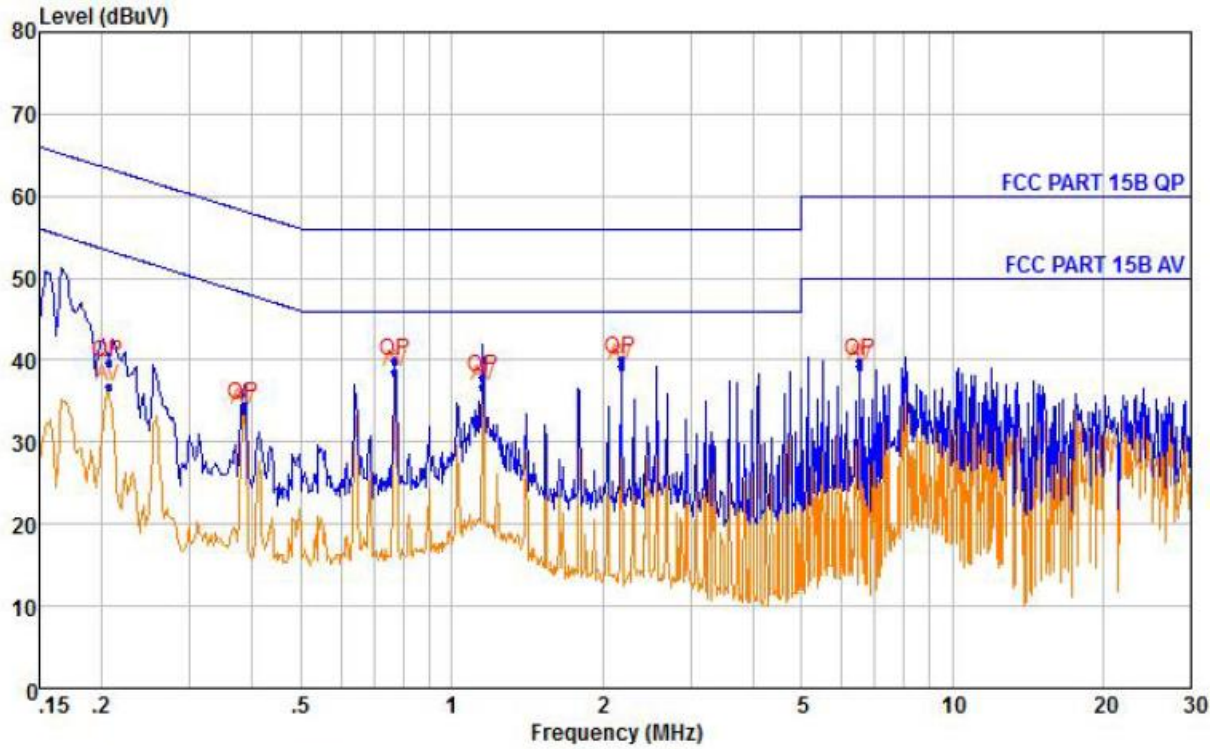
**Test result:** PASS

**Measurement Data:**

An initial pre-scan was performed on the live and neutral lines with peak detector.

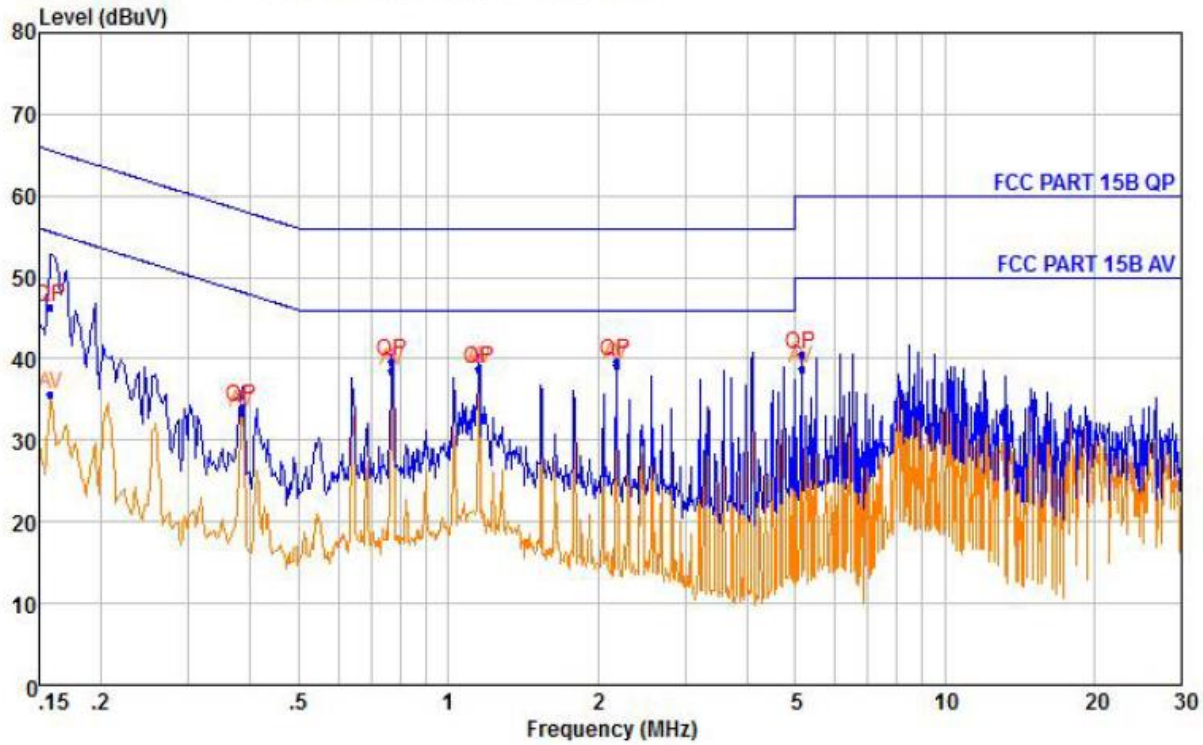
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected. For EUT the communicating was worst case mode.

**Live Line:**




| NO. | Freq MHz | Reading dBuV | LISN Factor dB | Cable Loss dB | Measured dBuV | Limit Line dBuV | Over Limit dB | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.206 | 26.34 | 10.30 | 0.02 | 36.66 | 53.36 | -16.70 | Average |
| 2 | 0.206 | 29.45 | 10.30 | 0.02 | 39.77 | 63.36 | -23.59 | QP |
| 3 | 0.385 | 23.49 | 10.35 | 0.03 | 33.87 | 48.17 | -14.30 | Average |
| 4 | 0.385 | 24.23 | 10.35 | 0.03 | 34.61 | 58.17 | -23.56 | QP |
| 5 | 0.771 | 28.21 | 10.33 | 0.04 | 38.58 | 46.00 | -7.42 | Average |
| 6 | 0.771 | 29.50 | 10.33 | 0.04 | 39.87 | 56.00 | -16.13 | QP |
| 7 | 1.153 | 26.35 | 10.33 | 0.05 | 36.73 | 46.00 | -9.27 | Average |
| 8 | 1.153 | 27.47 | 10.33 | 0.05 | 37.85 | 56.00 | -18.15 | QP |
| 9 | 2.178 | 28.65 | 10.43 | 0.07 | 39.15 | 46.00 | -6.85 | Average |
| 10 | 2.178 | 29.68 | 10.43 | 0.07 | 40.18 | 56.00 | -15.82 | QP |
| 11 | 6.557 | 28.61 | 10.51 | 0.12 | 39.24 | 50.00 | -10.76 | Average |
| 12 | 6.557 | 29.17 | 10.51 | 0.12 | 39.80 | 60.00 | -20.20 | QP |

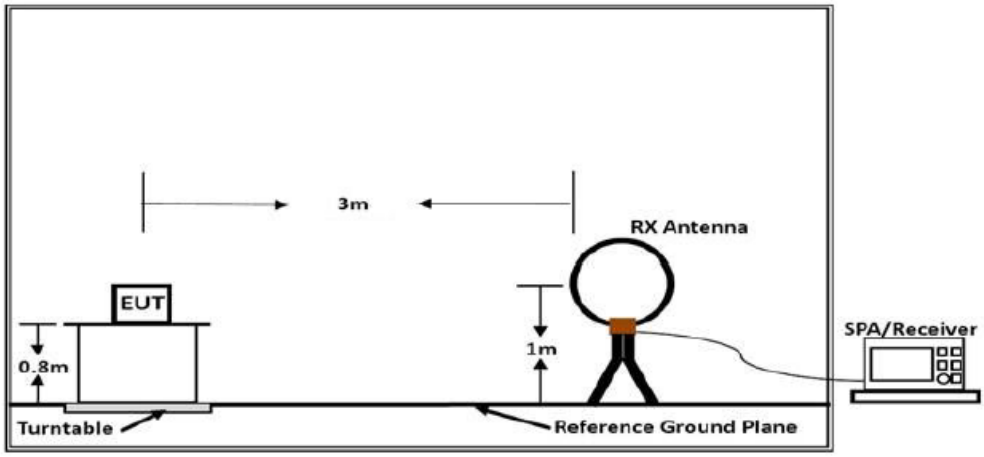
**Neutral Line:**



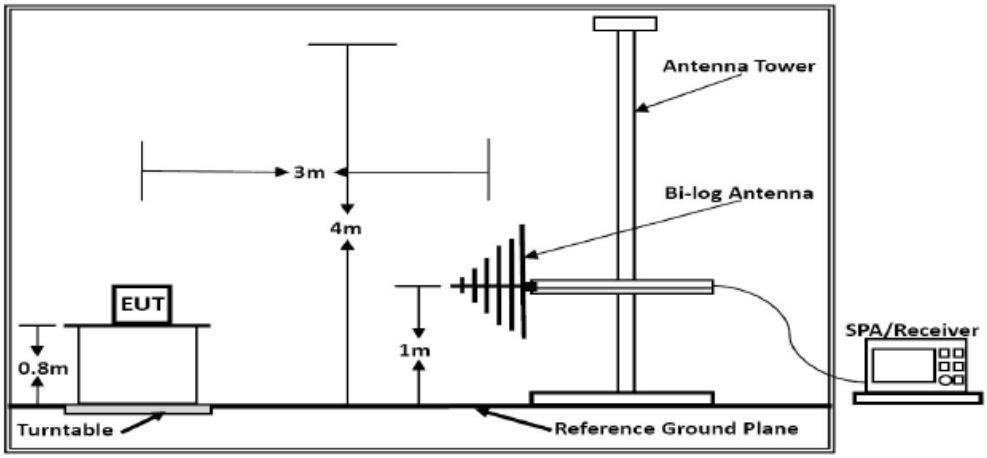

| NO. | Freq MHz | Reading dBuV | LISN Factor dB | Cable Loss dB | Measured dBuV | Limit Line dBuV | Over Limit dB | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.158 | 25.08 | 10.49 | 0.02 | 35.59 | 55.56 | -19.97 | Average |
| 2 | 0.158 | 35.80 | 10.49 | 0.02 | 46.31 | 65.56 | -19.25 | QP |
| 3 | 0.385 | 22.83 | 10.51 | 0.03 | 33.37 | 48.17 | -14.80 | Average |
| 4 | 0.385 | 23.60 | 10.51 | 0.03 | 34.14 | 58.17 | -24.03 | QP |
| 5 | 0.771 | 27.97 | 10.61 | 0.04 | 38.62 | 46.00 | -7.38 | Average |
| 6 | 0.771 | 28.99 | 10.61 | 0.04 | 39.64 | 56.00 | -16.36 | QP |
| 7 | 1.153 | 28.00 | 10.66 | 0.05 | 38.71 | 46.00 | -7.29 | Average |
| 8 | 1.153 | 28.17 | 10.66 | 0.05 | 38.88 | 56.00 | -17.12 | QP |
| 9 | 2.178 | 28.42 | 10.62 | 0.07 | 39.11 | 46.00 | -6.89 | Average |
| 10 | 2.178 | 29.04 | 10.62 | 0.07 | 39.73 | 56.00 | -16.27 | QP |
| 11 | 5.139 | 28.17 | 10.59 | 0.10 | 38.86 | 50.00 | -11.14 | Average |
| 12 | 5.139 | 29.83 | 10.59 | 0.10 | 40.52 | 60.00 | -19.48 | QP |

# 7 RADIATED EMISSION MEASUREMENT

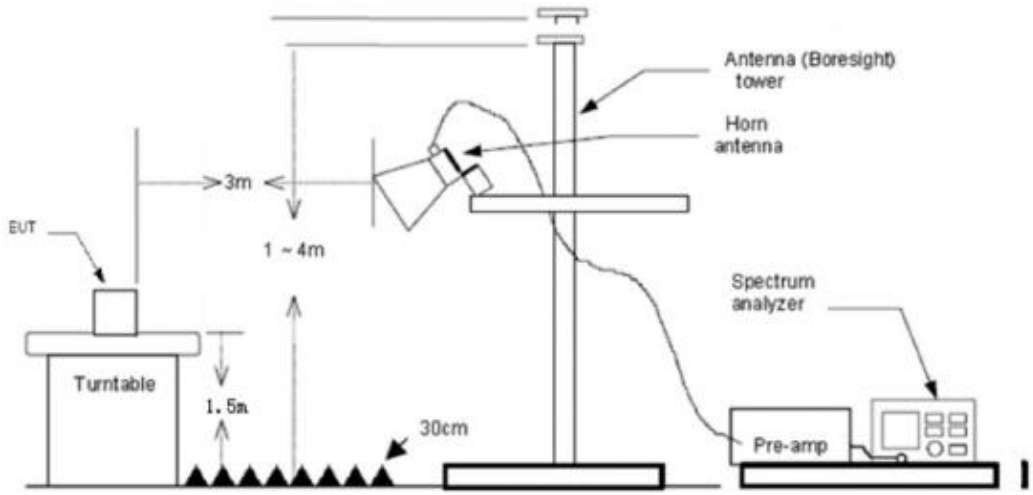
## 7.1. Block Diagram of Test Setup




Below 30MHz




Below 1GHz



## 7.2. Radiated Emission Limit

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|---|---|---|---|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| \1\ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293. | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (\2\) |
| 13.36-13.41 | | | |

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

\2\ Above 38.6

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies (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 |

## 7.3 EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in
normal application.

## 7.4 Measuring Setting

The following table is the setting of spectrum analyzer and receiver.

| Receiver Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP/Average |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP/Average |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 100kHz for QP |

## 7.5 Test Procedure

**1) Sequence of testing 9 kHz to 30 MHz**
**Setup:**
--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
--- If the EUT is a floor standing device, it is placed on the ground.
--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
--- The measurement distance is 3 meter.
--- The EUT was set into operation.
**Premeasurement:**
--- The turntable rotates from 0° to 315° using 45° steps.
--- The antenna height is 1 meter.
--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions
**Final measurement:**
--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

**2) Sequence of testing 30 MHz to 1 GHz**

**Setup:**

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
--- Auxiliary equipment and cables were positioned to simulate normal operation conditions
--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
--- The measurement distance is 3 meter.
--- The EUT was set into operation.

**Premeasurement:**

--- The turntable rotates from 0° to 315° using 45° steps.
--- The antenna is polarized vertical and horizontal.
--- The antenna height changes from 1 to 3 meter.
--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

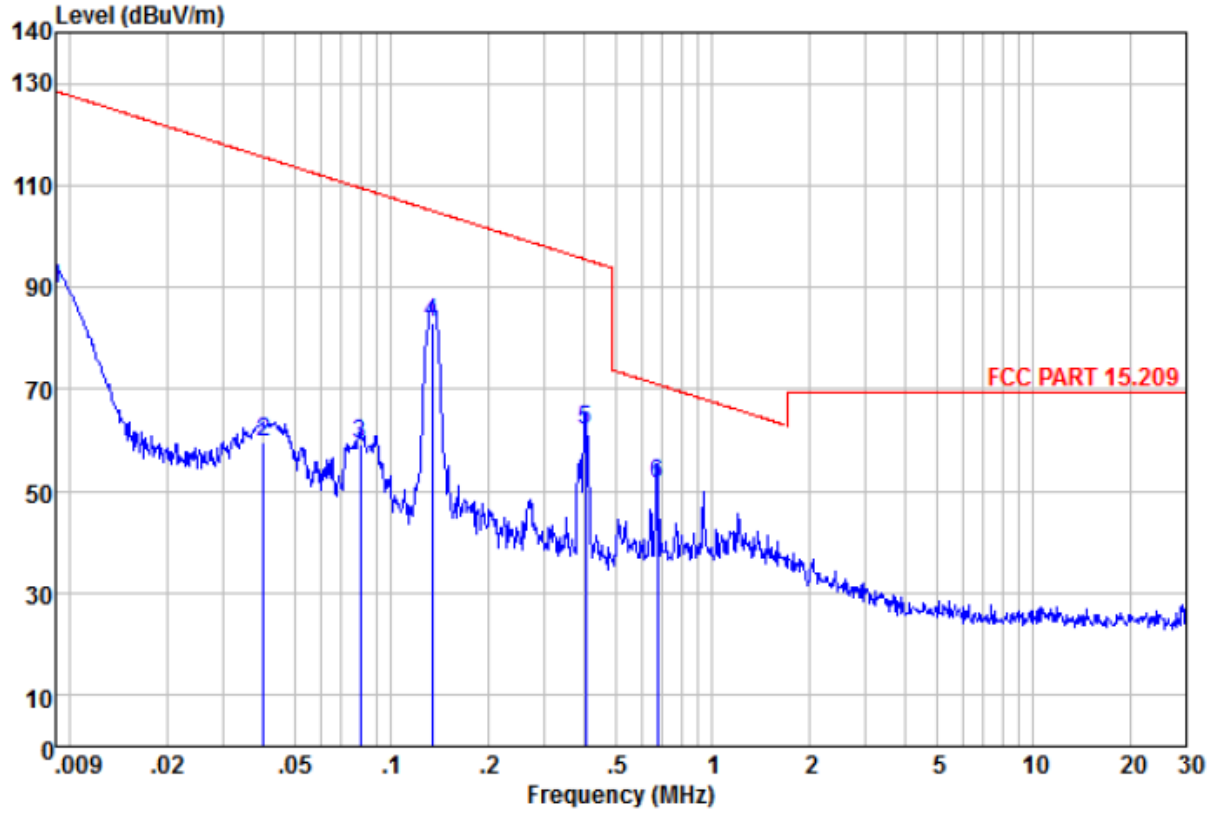
**Final measurement:**

--- The final measurement will be performed with minimum the six highest peaks.
--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.
--- The final measurement will be done with QP detector with an EMI receiver.
--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

## 7.6 Test Results

All the situation (full load, half load and empty load) has been tested, only the worst situation (full load) was recorded in the report.

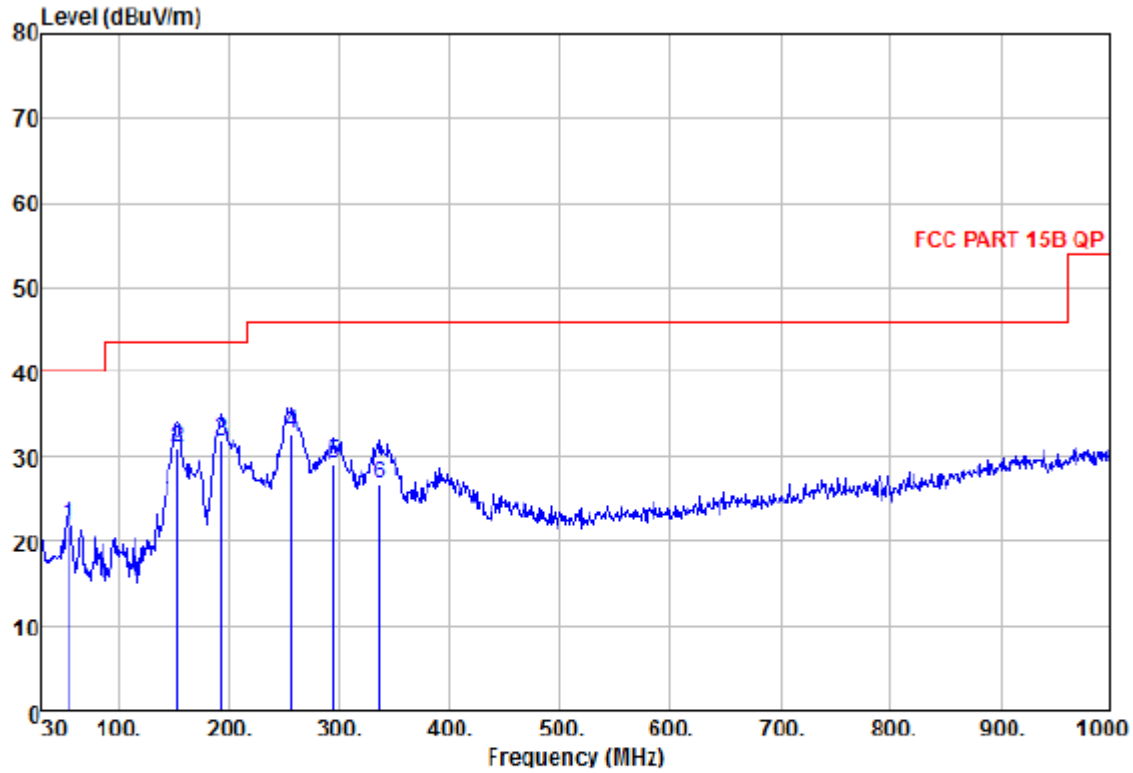
**0.009 MHz – 30 MHz:**




| Frequency (MHz) | Reading Level (DbμV/m) | Correct (Db/m) | Emission Level (DbμV/m) | Limit (DbμV/m) | Margin (Db) | Detector |
|---|---|---|---|---|---|---|
| 0.010 | 67.90 | 21.6 | 89.50 | 128.52 | -39.02 | PK |
| 0.040 | 38.99 | 20.75 | 59.74 | 115.56 | -55.82 | PK |
| 0.080 | 38.53 | 20.7 | 59.23 | 109.57 | -50.34 | PK |
| 0.130 | 62.62 | 20.3 | 82.92 | 105.06 | -22.14 | PK |
| 0.400 | 41.64 | 20.37 | 62.01 | 95.47 | -33.46 | PK |
| 0.670 | 30.85 | 20.5 | 51.35 | 71.04 | -19.69 | PK |

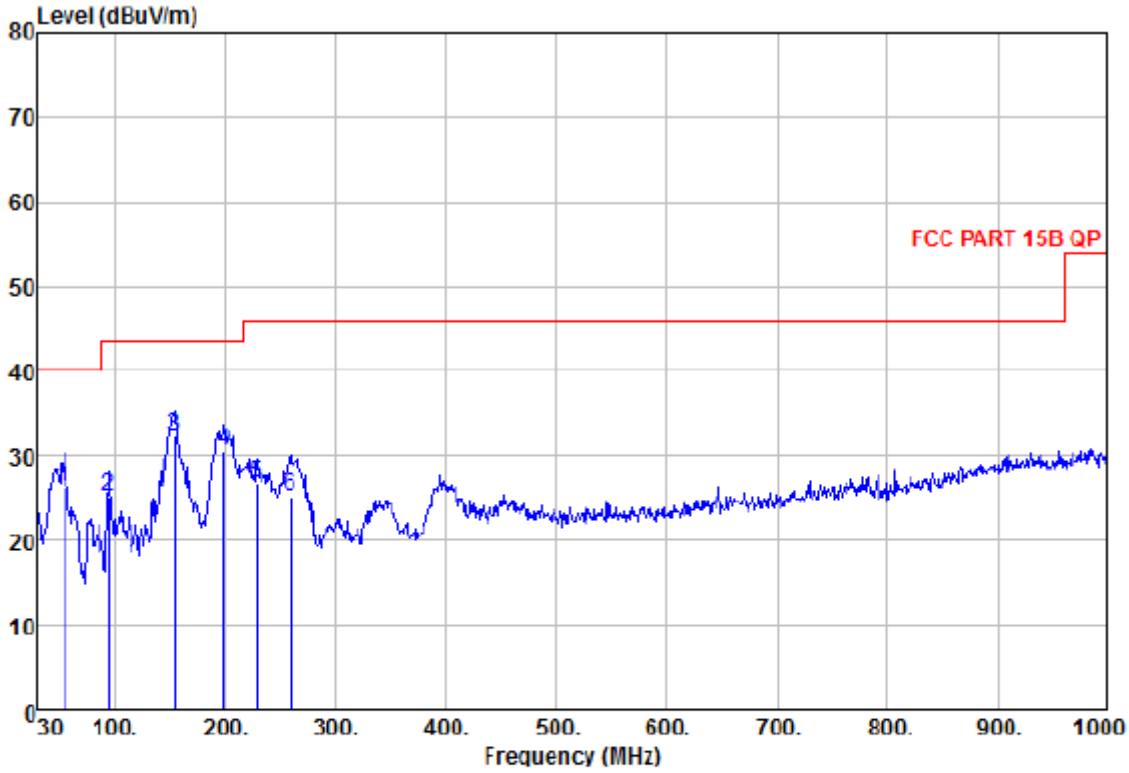
**30MHz-1GHz:**

**Horizontal:**




| No. | Freq | Reading | Antenna Factor | Cable Loss | Measured | Limit Line | Preamp Factor | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dBuV/m | dBuV/m | dB | dB | |
| 1 | 54.25 | 46.50 | 7.84 | 0.14 | 21.82 | 40.00 | 32.66 | -18.18 | QP |
| 2 | 153.19 | 52.59 | 10.33 | 0.25 | 31.08 | 43.50 | 32.09 | -12.42 | QP |
| 3 | 192.96 | 53.16 | 10.42 | 0.30 | 31.87 | 43.50 | 32.01 | -11.63 | QP |
| 4 | 256.01 | 51.05 | 12.72 | 0.36 | 32.69 | 46.00 | 31.44 | -13.31 | QP |
| 5 | 295.78 | 46.09 | 13.73 | 0.39 | 29.17 | 46.00 | 31.04 | -16.83 | QP |
| 6 | 336.52 | 42.96 | 14.47 | 0.41 | 26.84 | 46.00 | 31.00 | -19.16 | QP |

**Vertical:**




| No. | Freq | Reading | Antenna Factor | Cable Loss | Measured | Limit Line | Preamp Factor | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dBuV/m | dBuV/m | dB | dB | |
| 1 | 53.28 | 50.94 | 7.83 | 0.14 | 26.24 | 40.00 | 32.67 | -13.76 | QP |
| 2 | 94.99 | 48.75 | 8.45 | 0.19 | 25.14 | 43.50 | 32.25 | -18.36 | QP |
| 3 | 154.16 | 53.75 | 10.37 | 0.26 | 32.29 | 43.50 | 32.09 | -11.21 | QP |
| 4 | 197.81 | 51.70 | 10.61 | 0.31 | 30.62 | 43.50 | 32.00 | -12.88 | QP |
| 5 | 227.88 | 46.33 | 11.70 | 0.34 | 26.65 | 46.00 | 31.72 | -19.35 | QP |
| 6 | 258.92 | 43.35 | 12.82 | 0.36 | 25.12 | 46.00 | 31.41 | -20.88 | QP |

# 8 Emission Bandwidth

Test Requirement: FCC Part 15 C section 15.215 (c)
Test Method: ANSI C63.10:
Operating Environment:
Temperature: 24.0 °C Humidity: 50 % RH Atmospheric Pressure: 101 kPa
Requirements:

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Method of measurement: The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector. Record the 20 dB bandwidth of the carrier.

According to the ANSI 63.10-2013, the emission bandwidth test method as follows.
Set span = 2~5 x OBW , centered on a transmitting channel
RBW=1%~5% OBW, VBW=3RBW
Sweep = auto
Detector function = peak
Trace = max hold

Mode 1: Base station in stand-by, idle mode
Mode 2: Communication and charging

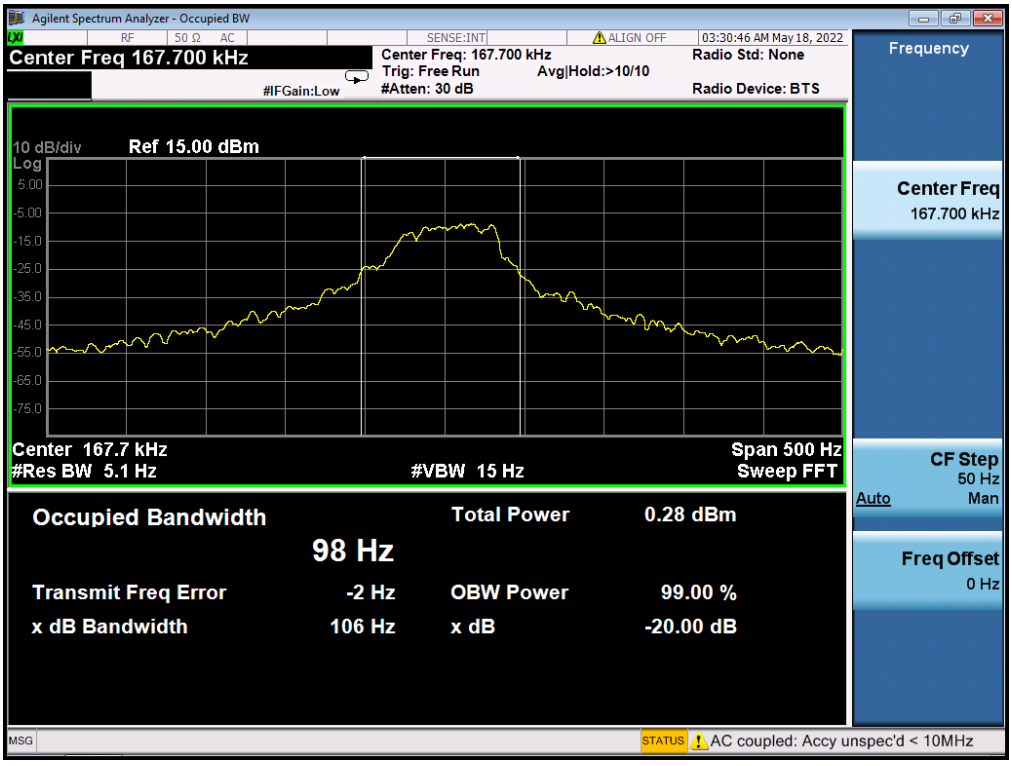
Test result:
Antenna 1

| Mode | Test Frequency kHz | 20dB Bandwidth Hz |
|---|---|---|
| **Mode 1** | 128.3 | 122 |
| **Mode 2** | 167.7 | 106 |

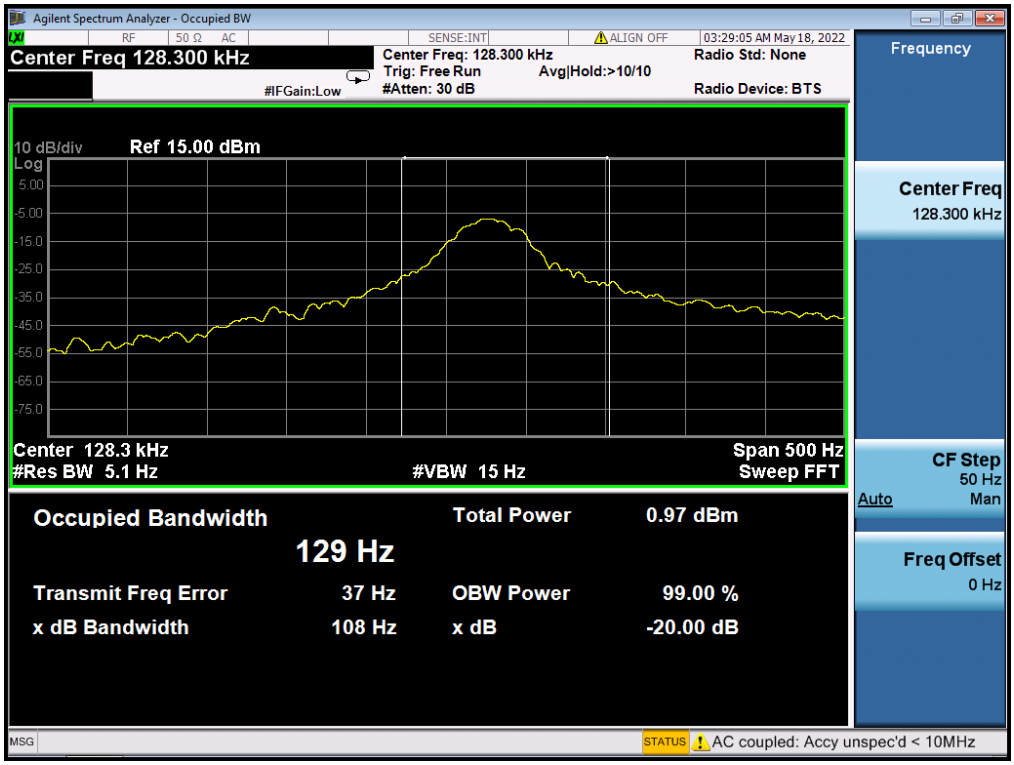
Antenna 2

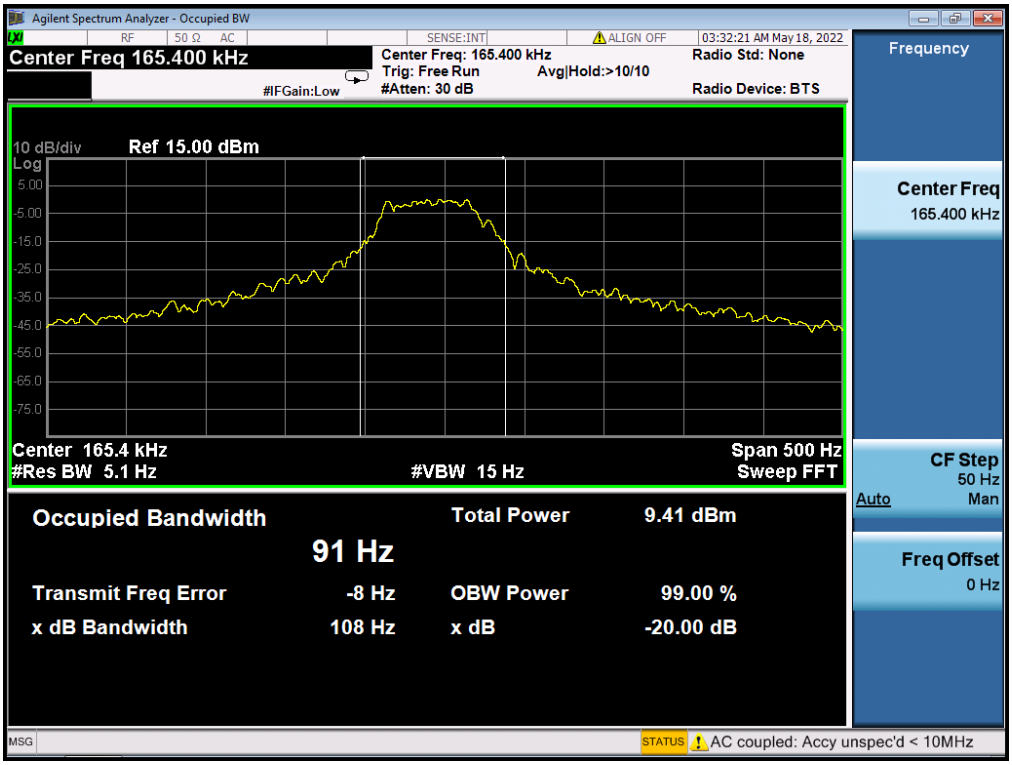
| Mode | Test Frequency kHz | 20dB Bandwidth Hz |
|---|---|---|
| **Mode 1** | 128.3 | 108 |
| **Mode 2** | 165.4 | 108 |

Test plot:
Antenna 1

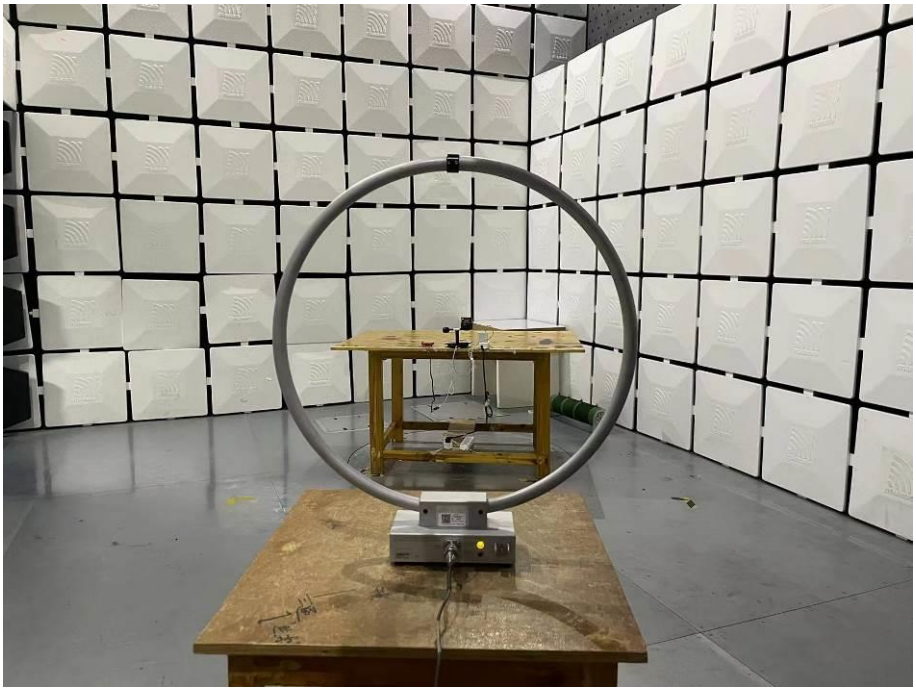
Antenna 2


Agilent Spectrum Analyzer - Occupied BW
RF 50 Ω AC
SENSE:INT
ALIGN OFF
03:29:05 AM May 18, 2022
Center Freq 128.300 kHz
Center Freq: 128.300 kHz
Trig: Free Run
Avg|Hold:>10/10
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 15.00 dBm
Log
5.00
-5.00
-15.0
-25.0
-35.0
-45.0
-55.0
-65.0
-75.0
Center 128.3 kHz
#Res BW 5.1 Hz
#VBW 15 Hz
Span 500 Hz
Sweep FFT
Occupied Bandwidth
129 Hz
Total Power
0.97 dBm
Transmit Freq Error
37 Hz
OBW Power
99.00 %
x dB Bandwidth
108 Hz
x dB
-20.00 dB
Center Freq
128.300 kHz
CF Step
50 Hz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz

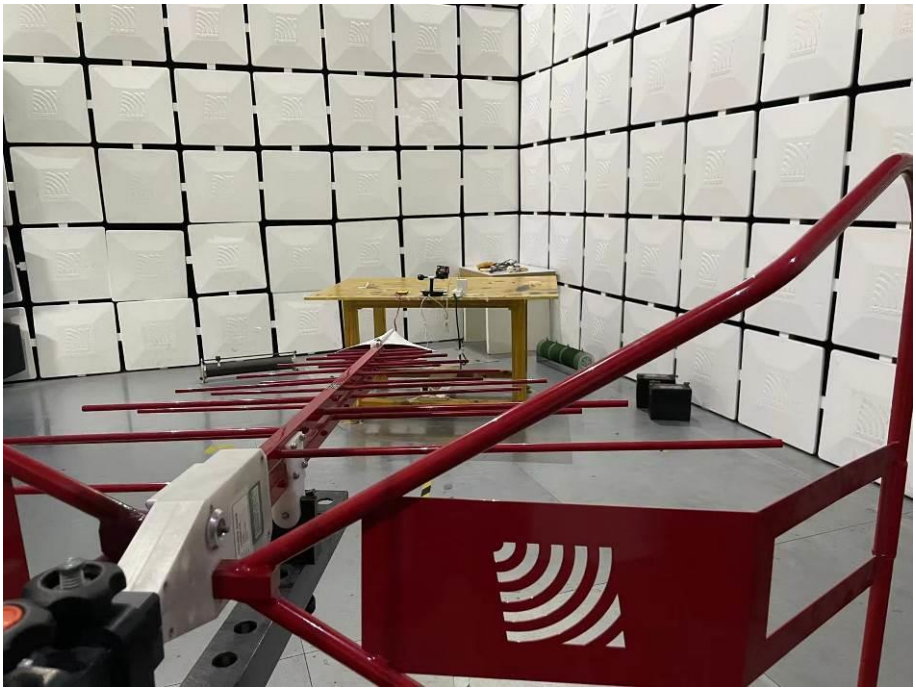

Agilent Spectrum Analyzer - Occupied BW
RF 50 Ω AC
SENSE:INT
ALIGN OFF
03:32:21 AM May 18, 2022
Center Freq 165.400 kHz
Center Freq: 165.400 kHz
Trig: Free Run
Avg|Hold:>10/10
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 15.00 dBm
Log
5.00
-5.00
-15.0
-25.0
-35.0
-45.0
-55.0
-65.0
-75.0
Center 165.4 kHz
#Res BW 5.1 Hz
#VBW 15 Hz
Span 500 Hz
Sweep FFT
Occupied Bandwidth
91 Hz
Total Power
9.41 dBm
Transmit Freq Error
-8 Hz
OBW Power
99.00 %
x dB Bandwidth
108 Hz
x dB
-20.00 dB
Center Freq
165.400 kHz
CF Step
50 Hz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz

# PHOTOGRAPHS OF TEST SETUP

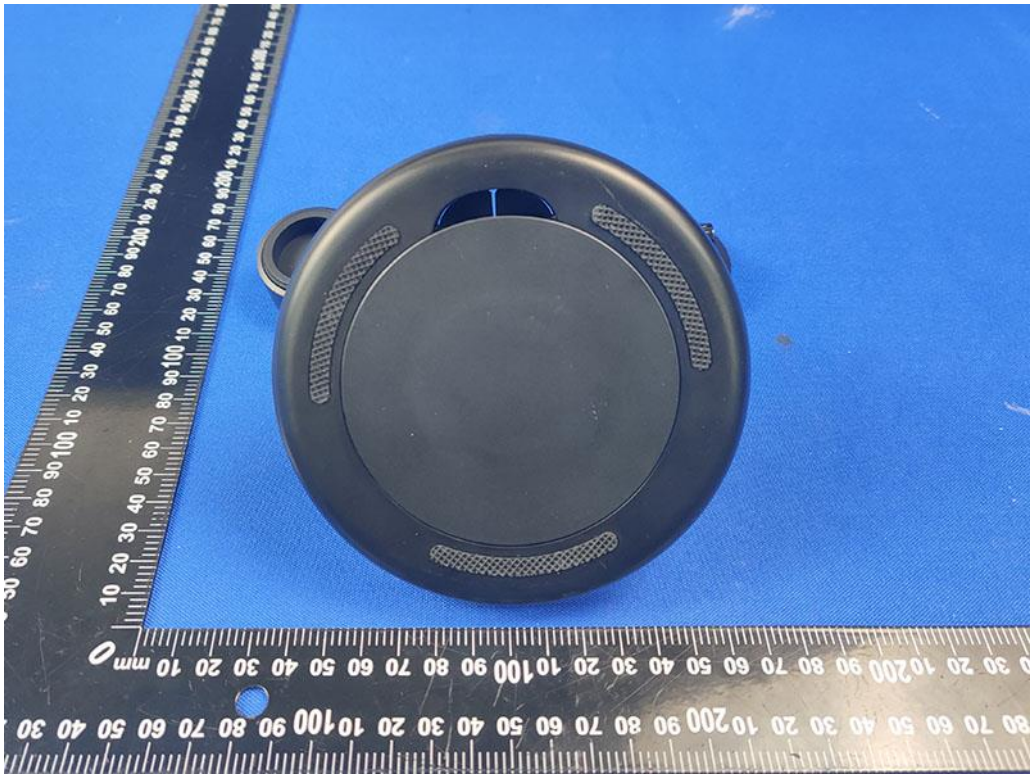
**Radiated spurious emission Test Setup (BELOW 30MHz)**

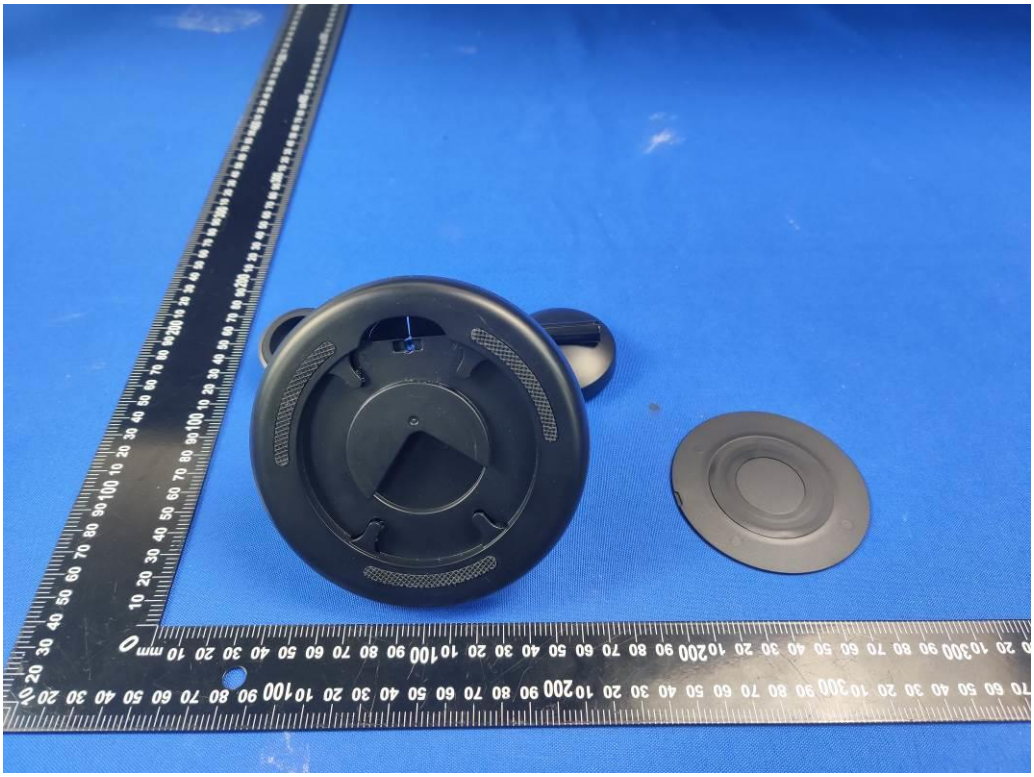


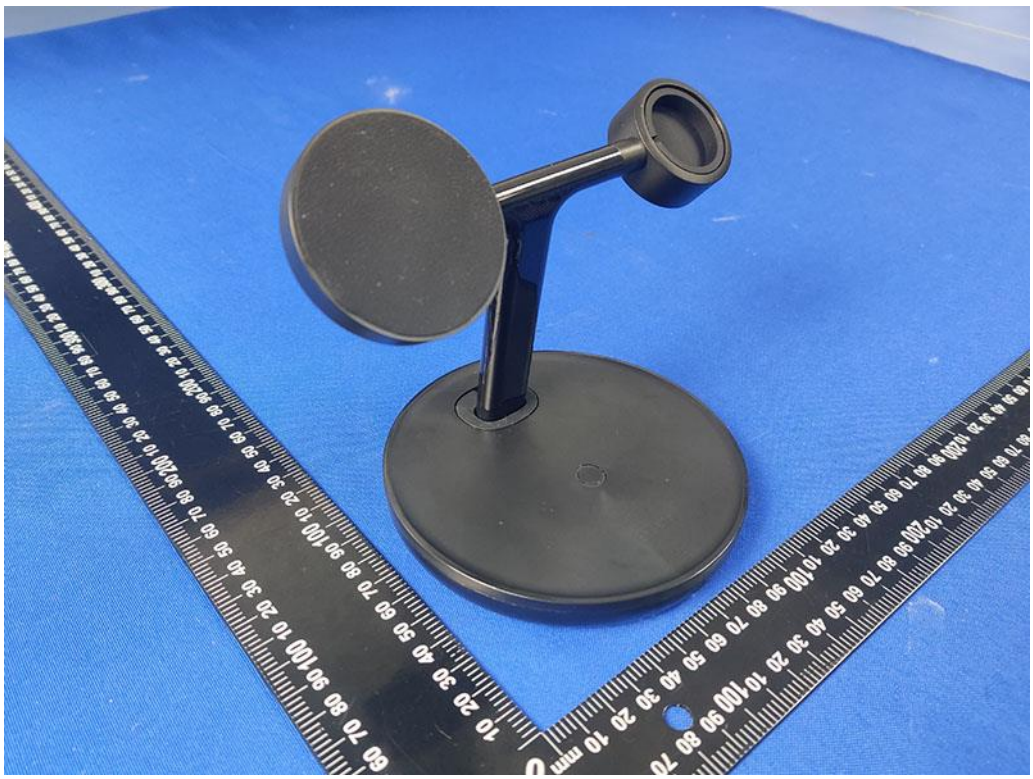
**Radiated spurious emission Test Setup (BELOW 1GHz)**

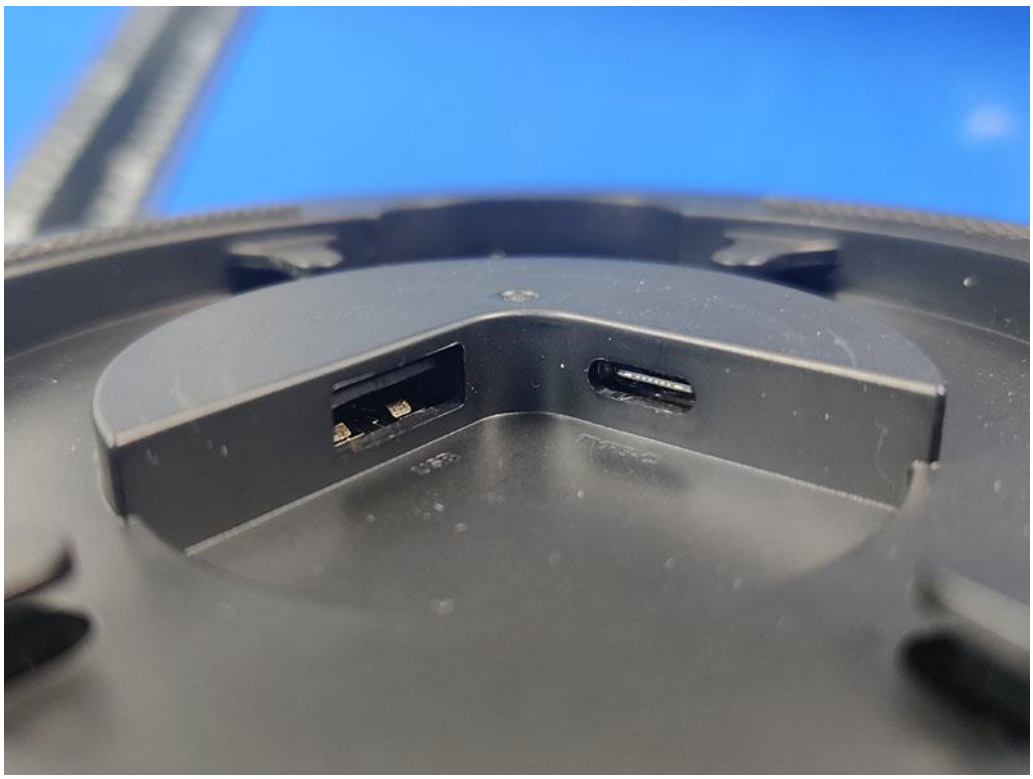


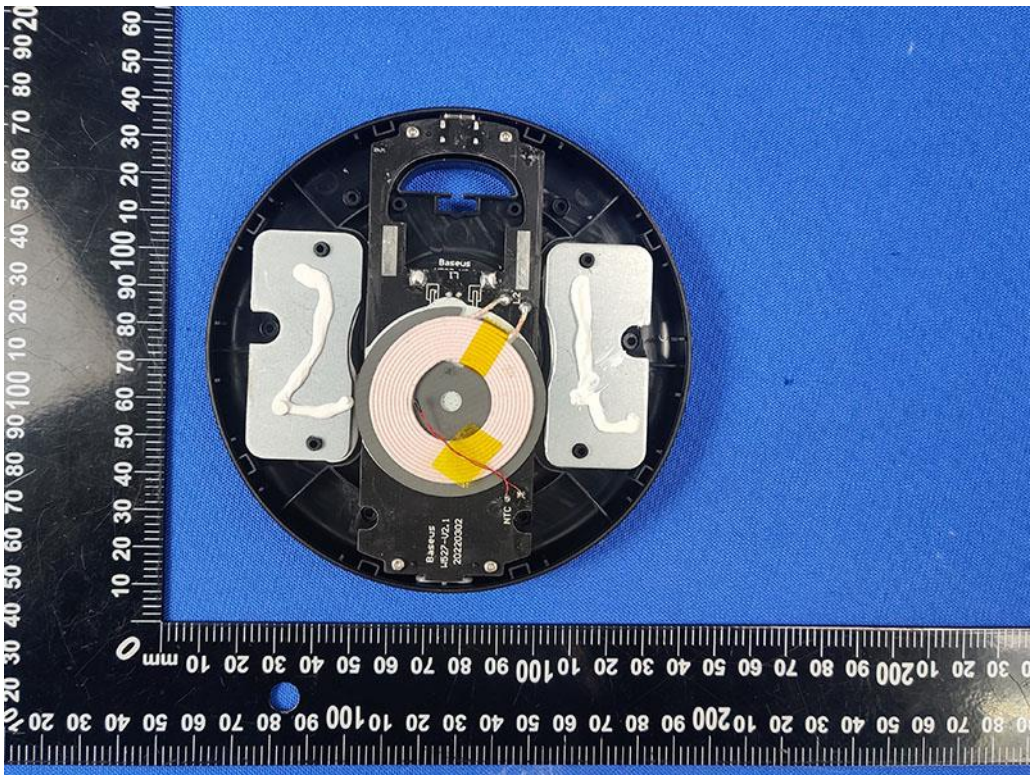
# PHOTOGRAPHS OF EUT Constructional Details

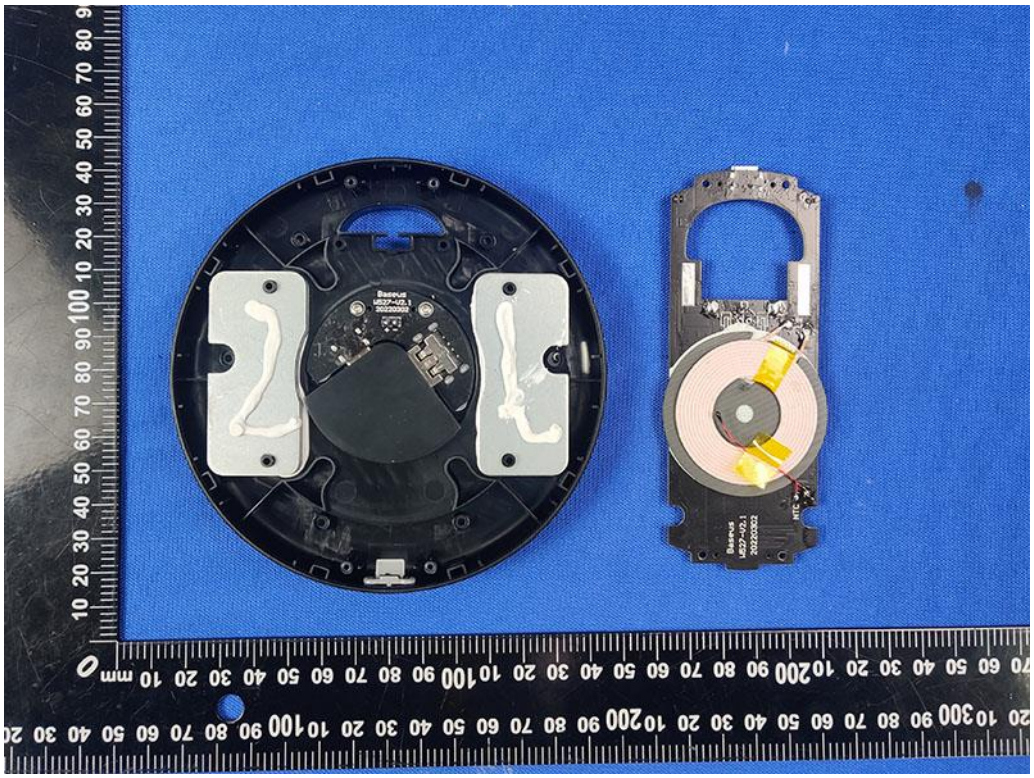


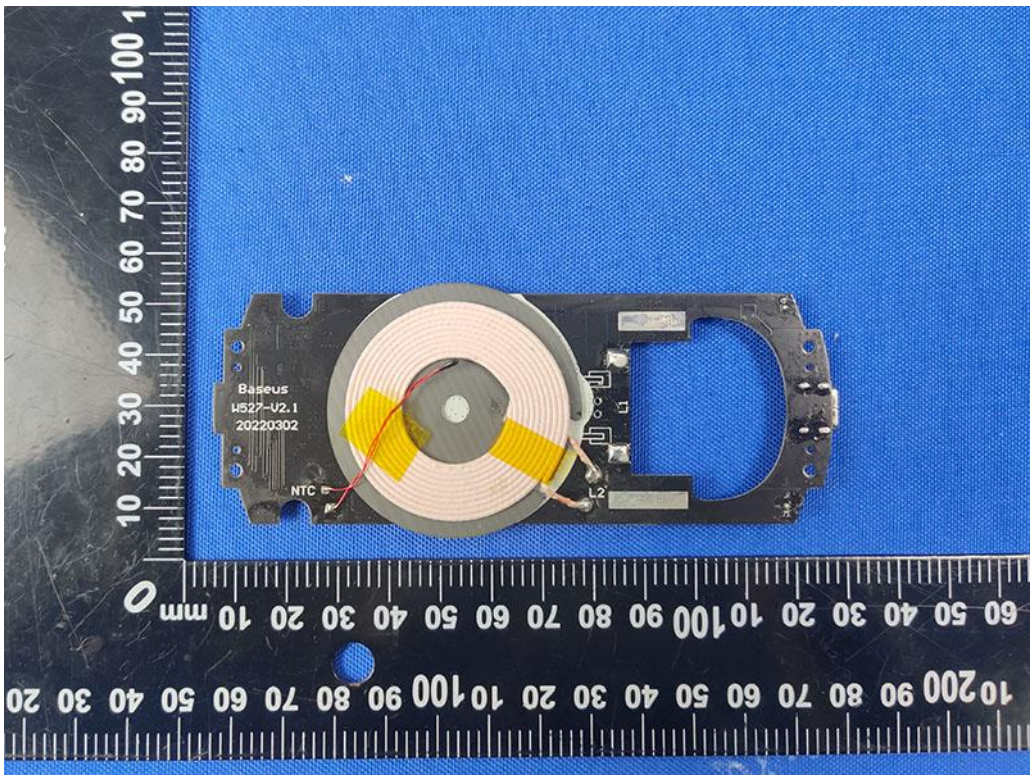


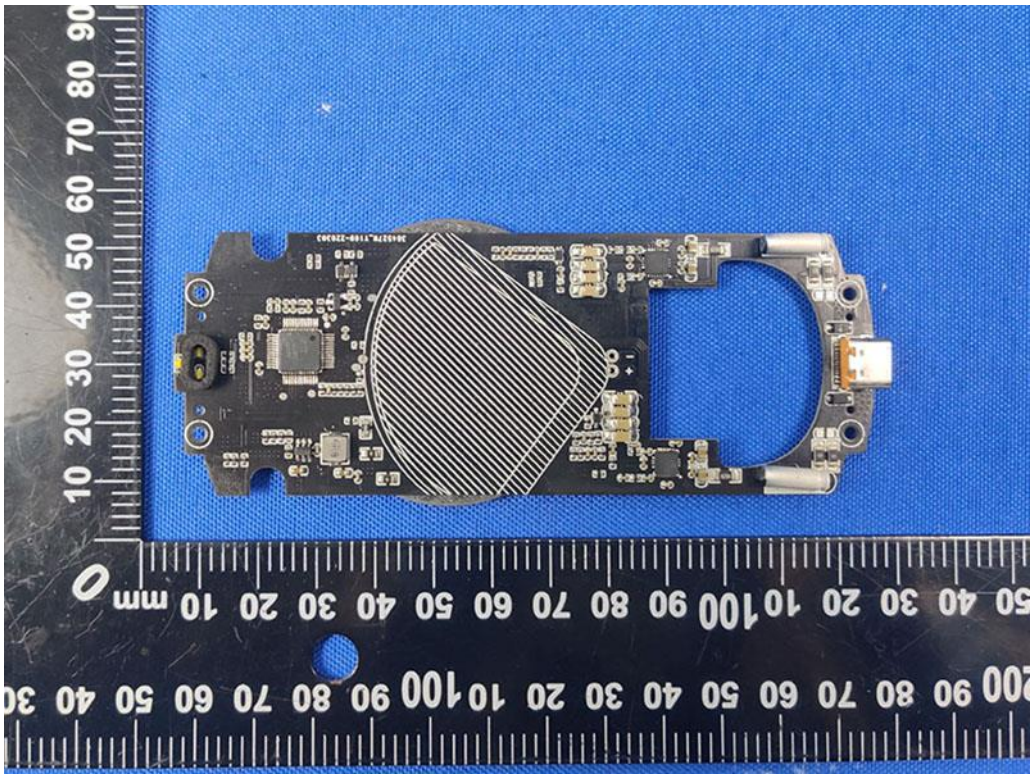


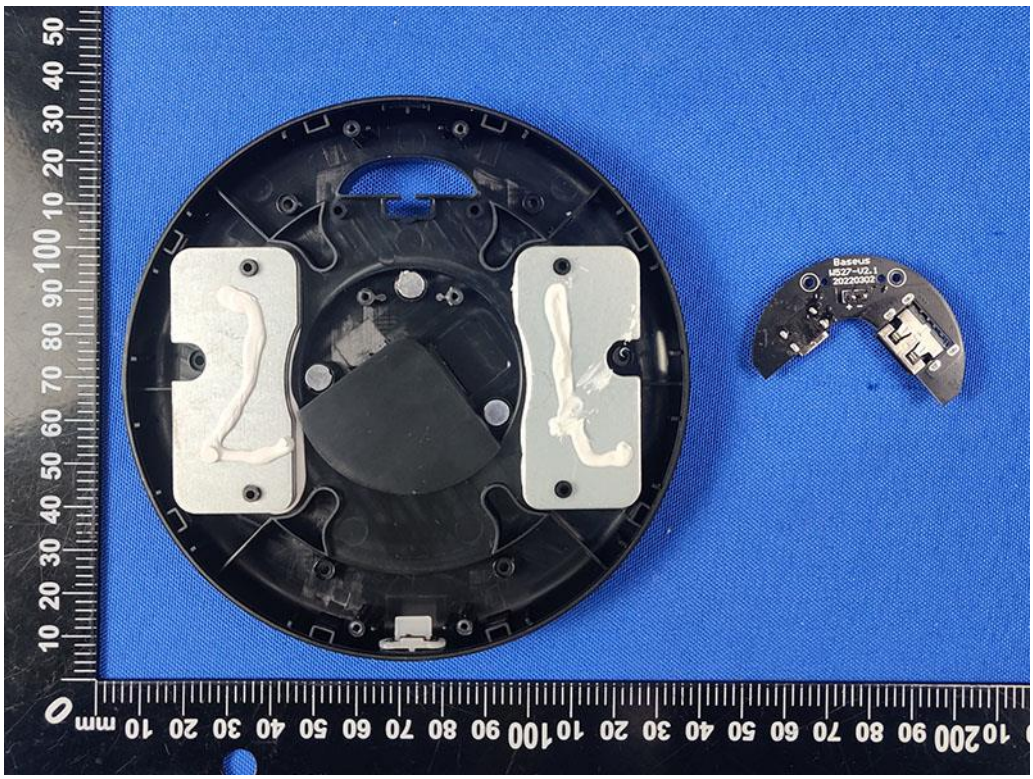


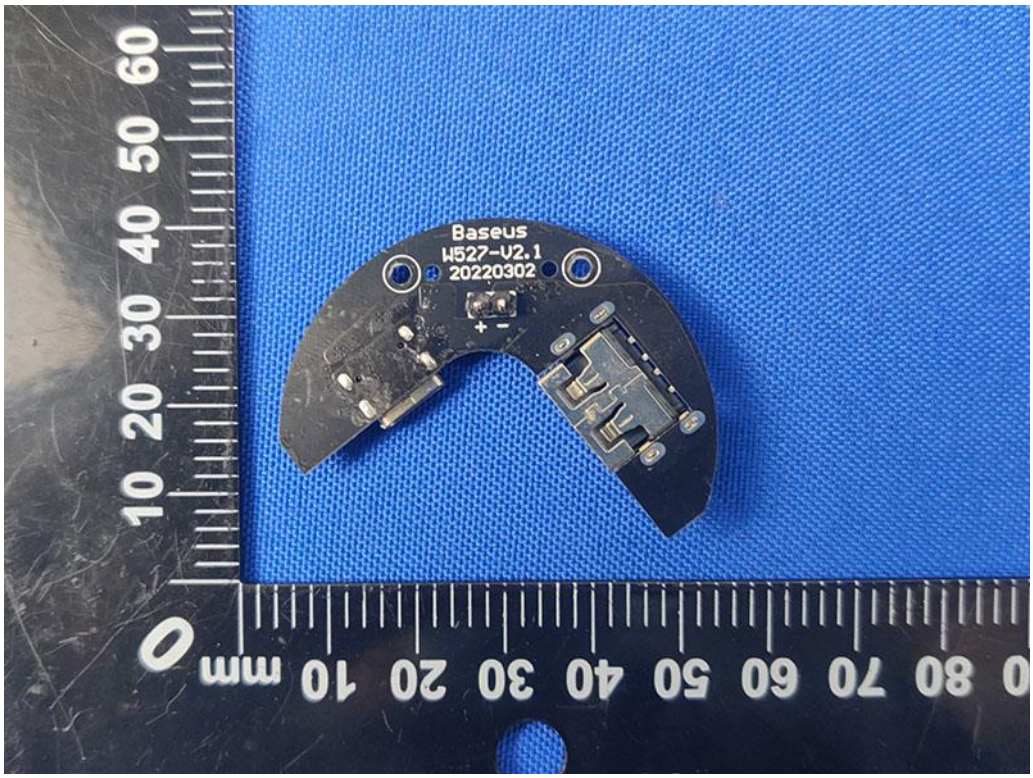


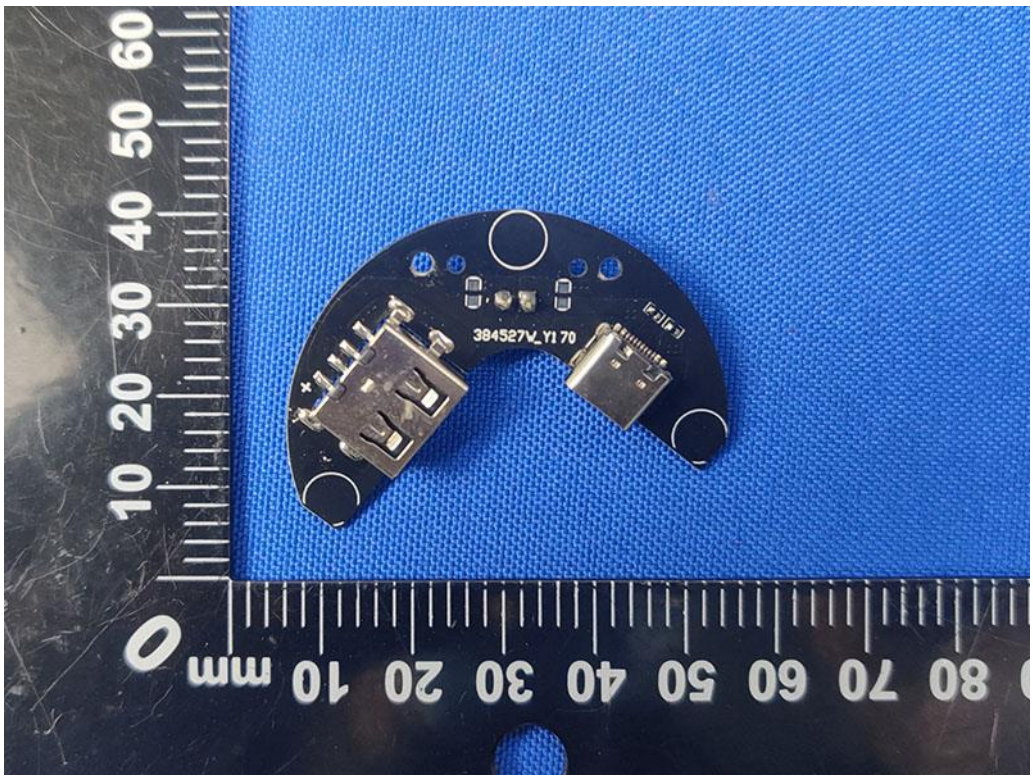


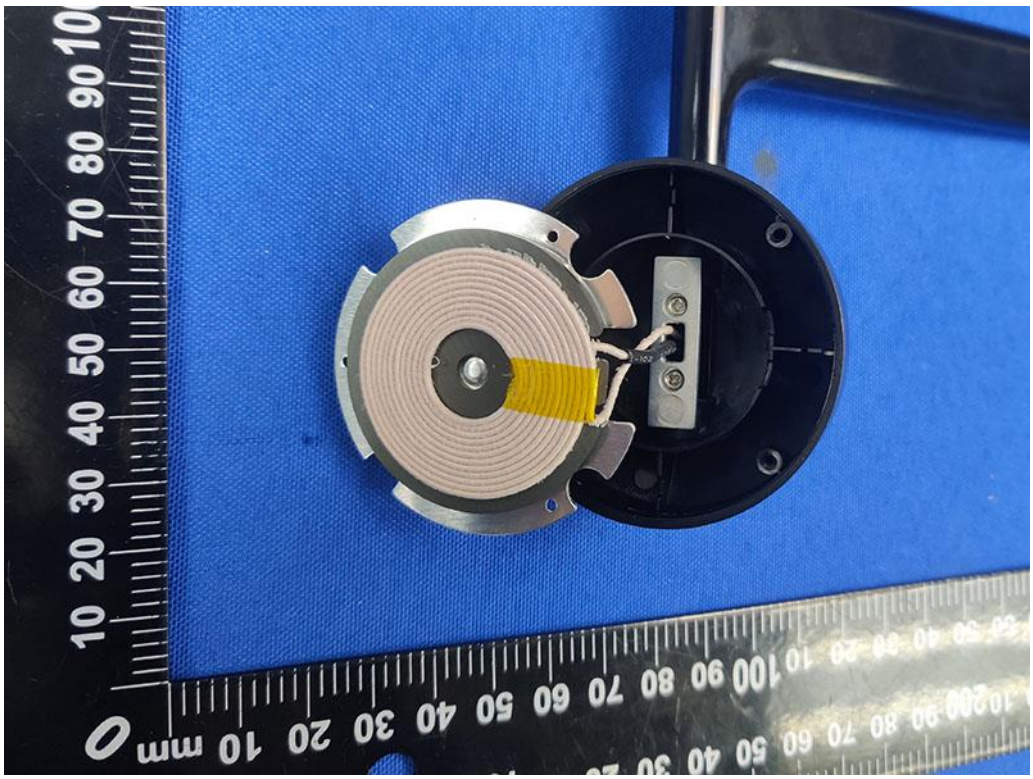

Baseus
W527-V2.1
20220302
NTC
L2

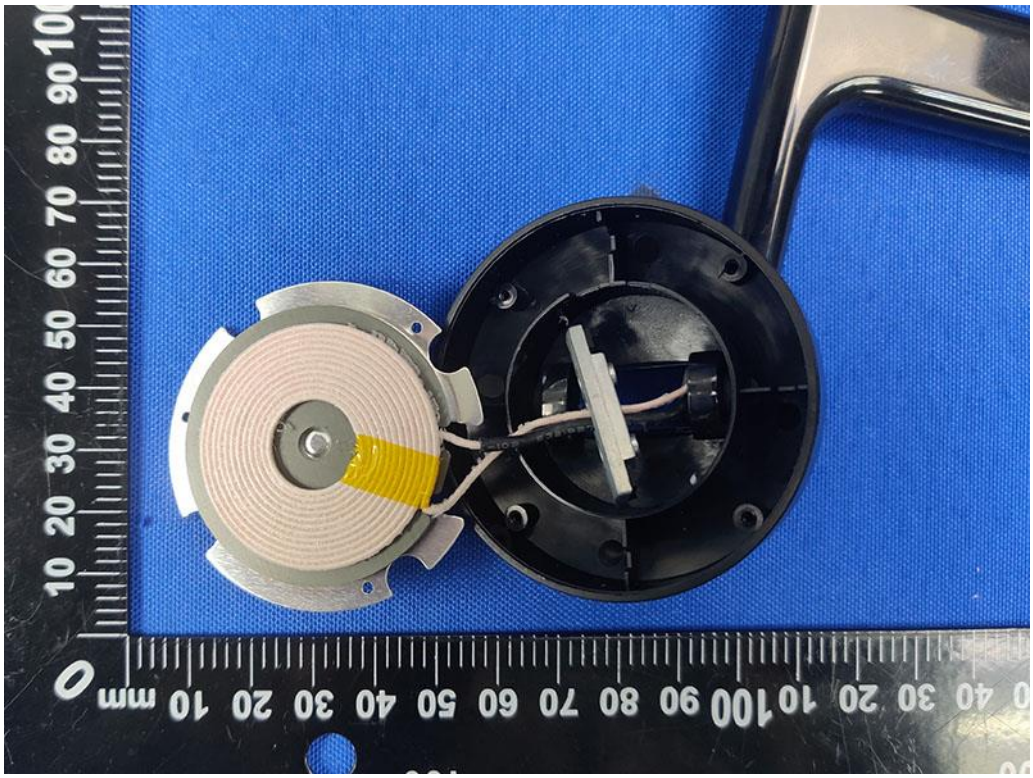


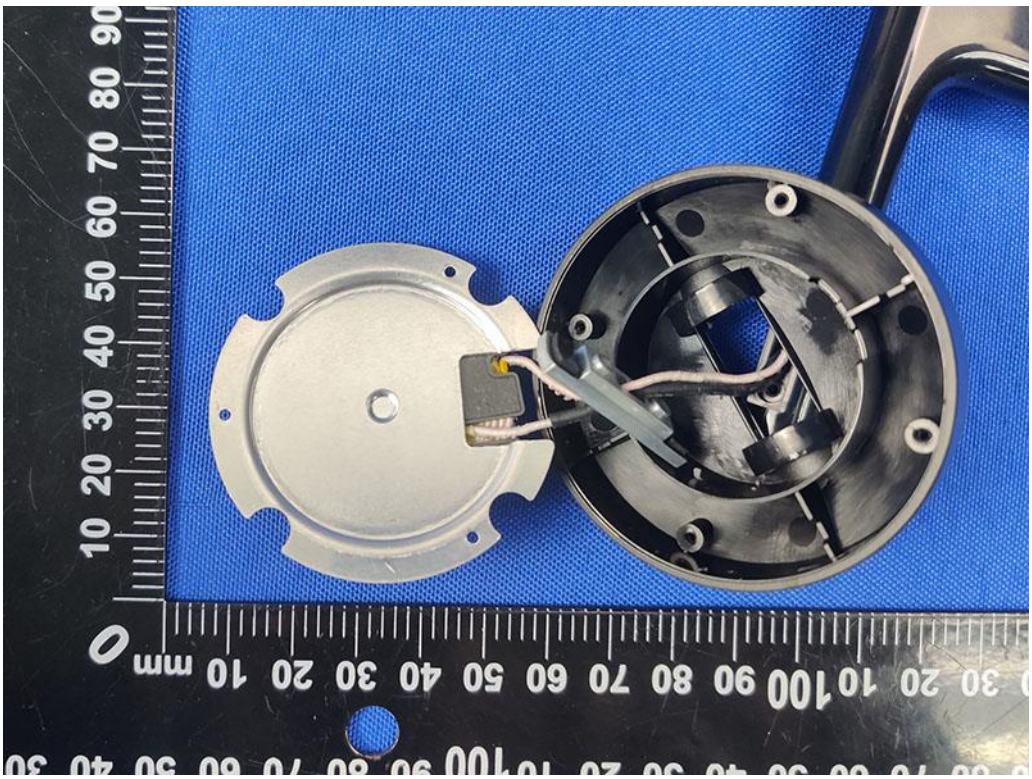



Baseus
W527-V2.1
20220302


384527V_Y1 70







*** End of Report ***