

# Test Report

**Product:** Wireless Charger

**Trade Mark:** AMEGAT

**Model Number:** LCQ3112

**FCC ID:** 2BAST-LCQ3112

**Prepared for**

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# 1 General Description

## 1.1 Description of EUT

|                            |   |
|----------------------------|---|
| Product name:              | Wireless Charger  |
| Model name:                | LCQ3112   |
| Series Model:              | N/A   |
| Different of series model: | N/A   |
| Operation frequency:       | Watch: 326.5kHz, 1778kHz<br>Phone: 115kHz~205kHz, 360kHz<br>Air Pods: 115kHz~205kHz   |
| Operational mode:          | Wireless charging   |
| Modulation type:           | ASK   |
| Antenna type:              | Coil Antenna  |
| Hardware version:          | V1.0  |
| Software version:          | V1.0  |
| Battery:                   | N/A   |
| Power supply:              | USB-C Input:5V/3A, 9V/3A, 12V/2.5A<br>Wireless Output (Phone): 5W, 7.5W, 10W, 15W(MAX)<br>Wireless Output (Watch): 5W(MAX)<br>Wireless Output (Air pods): 5W(MAX) |
| Adapter information:       | Input: 100-240V~0.8A 50/60Hz<br>USB-C Output:5V/3A, 9V/3A, 12V/2.5A, 15V/2A, 20V/1.5A<br>(PPS)3.3-11V/3A<br>Total Output: 30W                                     |

## 1.2 Test Mode

| Pretest Test Mode | Description of Mode                                 |
|-------------------|---|
| 1                 | Wireless Output (Phone:15W+ Air pods:5W+Watch: 5W)  |
| 2                 | Wireless Output (Phone:10W+ Air pods:5W+Watch: 5W)  |
| 3                 | Wireless Output (Phone:7.5W+ Air pods:5W+Watch: 5W) |
| 4                 | Wireless Output (Phone:5W+ Air pods:5W+Watch: 5W)   |

| Test Item           | Final Test Mode |
|---------------------|-----------------|
| Conducted Emissions | 1               |
| Radiated Emissions  | 1               |
| 20dB bandwidth      | 1/2/3/4         |

### 1.3 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

### 1.4 Ancillary Equipment

| Equipment | Model     | S/N               | Manufacturer |
|-----------|-----------|-------------------|--------------|
| Load      | YBZ1.1    | 86631yp378-220519 | YBZ          |
| AirPods   | A2031     | H04F3NS0L<br>X2Y  | Apple Inc.   |
| Watch     | NYYK2CH/A | H4HFR0ZHQ<br>1N2  | Apple Inc.   |
|           |           |                   |              |
|           |           |                   |              |

## 2 Summary of Test Result

Test procedures according to the technical standards:

| FCC Part 15C |                  |                     |        |        |
|--------------|------------------|---------------------|--------|--------|
| No.          | Standard Section | Test Item           | Result | Remark |
| 1            | FCC Part 15.203  | Antenna Requirement | Pass   |        |
| 2            | FCC Part 15.207  | Conducted Emission  | Pass   |        |
| 3            | FCC Part 15.209  | Radiated Emission   | Pass   |        |
| 4            | FCC Part 15.215  | 20dB Bandwidth      | Pass   |        |

Note:

1. "N/A" means the test case does not apply to the test object.

### 3 Test Facilities and Accreditations

#### 3.1 Test Laboratory

|                       |   |
|-----------------------|---|
| Test Site             | Shenzhen HongBiao Certification& Testing Co., Ltd   |
| Test Site Location    | Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China |
| Telephone:            | (86-755) 2998 9321  |
| Fax:                  | (86-755) 2998 5110  |
| FCC Registration No.: | CN1341  |
| A2LA Certificate No.: | 6765.01   |

#### 3.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

|                    |              |
|--------------------|--------------|
| Temperature:       | 15°C~35°C    |
| Relative Humidity: | 20%~75%      |
| Air Pressure:      | 98kPa~101kPa |

#### 3.3 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

| Measurement Frequency Range      | U, (dB)            | Note |
|----------------------------------|--------------------|------|
| RF frequency                     | $2 \times 10^{-5}$ |      |
| RF power, conducted              | $\pm 0.57$ dB      |      |
| Conducted emission(150kHz~30MHz) | $\pm 2.5$ dB       |      |
| Radiated emission(9kHz-30MHz)    | $\pm 2.5$ dB       |      |
| Radiated emission(30MHz~1GHz)    | $\pm 4.2$ dB       |      |
| Radiated emission (above 1GHz)   | $\pm 4.7$ dB       |      |
| Occupied Bandwidth               | $\pm 3\%$          |      |
| Temperature                      | $\pm 1$ degree     |      |
| Humidity                         | $\pm 5 \%$         |      |

#### 3.4 Test Software

| Software name         | Manufacturer | Model    | Version  |
|-----------------------|--------------|----------|----------|
| EMI Measurement       | Farad        | EZ-EMC   | V1.1.4.2 |
| Conducted test system | MWRF-test    | MTS 8310 | V2.0.0   |



## 4 List of Test Equipment

| Radiation emission  |               |  |              |             |              |                  |            |
|---------------------|---------------|--|--------------|-------------|--------------|------------------|------------|
| Item                | Equipment No. | Equipment name                           | Manufacturer | Model       | Serial No.   | Calibration date | Due date   |
| 1                   | HB-E001       | Horn Antenna                             | Schwarzbeck  | BBHA 9120D  | 02592        | 2022-04-02       | 2024-04-01 |
| 2                   | HB-E002       | Biconical log-periodic composite antenna | Schwarzbeck  | VULB 9168   | 01340        | 2022-04-06       | 2024-04-05 |
| 3                   | HB-E003       | SHF-EHF Horn                             | Schwarzbeck  | BBHA 91270  | 01193        | 2022-04-02       | 2024-04-01 |
| 4                   | HB-E004       | Preamplifier                             | Noyetec      | LAN-0910    | NYCM1420101  | 2023-05-11       | 2024-05-10 |
| 5                   | HB-E005       | Preamplifier                             | Noyetec      | LAN-0118    | NYCM1420102  | 2023-05-12       | 2024-05-11 |
| 6                   | HB-E006       | Preamplifier                             | Noyetec      | LAN-1840    | NYCM1420103  | 2023-06-11       | 2024-06-10 |
| 7                   | HB-E007       | EMI TEST RECEIVER                        | R&S          | ESR7        | 102520       | 2023-05-12       | 2024-05-11 |
| 8                   | HB-E009       | POSITINAL COTROLLE R                     | Noyetec      | N/A         | N/A          | /                | /          |
| 9                   | HB-E013       | RF switch                                | Noyetec      | NY-RF4      | NY0CM1420204 | /                | /          |
| 10                  | HB-E066       | Illuminance Tester                       | TASI         | TA8121      | N/A          | 2023-05-11       | 2024-05-10 |
| 11                  | HB-E075       | Active loop antenna                      | Schwarzbeck  | FMZB 1519B  | 1519B-245    | 2022-07-24       | 2024-07-23 |
| Conduction emission |               |  |              |             |              |                  |            |
| Item                | Equipment No. | Equipment name                           | Manufacturer | Model       | Serial No.   | Calibration date | Due date   |
| 1                   | HB-E014       | 4 Path V-LISN                            | Schwarzbeck  | NNLK 8121   | 00770        | 2023-05-12       | 2024-05-11 |
| 2                   | HB-E015       | Pulse Limiter                            | Schwarzbeck  | VTSD 9561-F | 00949        | 2023-05-12       | 2024-05-11 |
| 3                   | HB-E016       | ZN23201                                  | Noyetec      | ZN23201     | N/A          | 2023-05-11       | 2024-05-10 |
| 4                   | HB-E059       | Attenuator                               | Xianghua     | TS2-6-1     | 220215166    | 2023-05-12       | 2024-05-11 |
| 5                   | HB-E069       | EMI TEST RECEIVER                        | R&S          | ESCI        | N/A          | 2023-05-12       | 2024-05-11 |
| RF                  |               |  |              |             |              |                  |            |
| Item                | Equipment No. | Equipment name                           | Manufacturer | Model       | Serial No.   | Calibration date | Due date   |
| 1                   | HB-E041       | MXG Anaioq Signal Generator              | Agilent      | N5181A      | MY47070421   | 2023-05-11       | 2024-05-10 |
| 2                   | HB-E042       | WIDEBAND RADIO COMMUNICA                 | R&S          | CMW500      | 132108       | 2023-05-11       | 2024-05-10 |

|   |         | TION TESTER                              |         |                |            |            |            |
|---|---------|--|---------|----------------|------------|------------|------------|
| 3 | HB-E043 | MXG Anaioq<br>Signal<br>Generator        | Agilent | N5182A         | US46240335 | 2023-05-11 | 2024-05-10 |
| 4 | HB-E044 | Signal&<br>spectrum<br>Analyzer          | R&S     | FSV3044        | 101264     | 2023-05-11 | 2024-05-10 |
| 5 | HB-E045 | RF Control<br>Box                        | Noyetec | NY100-R<br>FCB | N/A        | /          | /          |
| 6 | HB-E058 | Thermometer<br>Clock Humidity<br>Monitor | N/A     | HTC-1          | N/A        | /          | /          |

Note: the calibration interval of the above test instruments is 12&24 months and the calibrations are traceable to international system unit (SI).

## **5 Test Item And Results**

### **5.1 Antenna Requirement**

#### **5.1.1 Standard Requirement**

15.203 requirement: For intentional device, according to 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

#### **5.1.2 Test Result**

The EUT antenna is Coil Antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

## 5.2 Conducted Emission

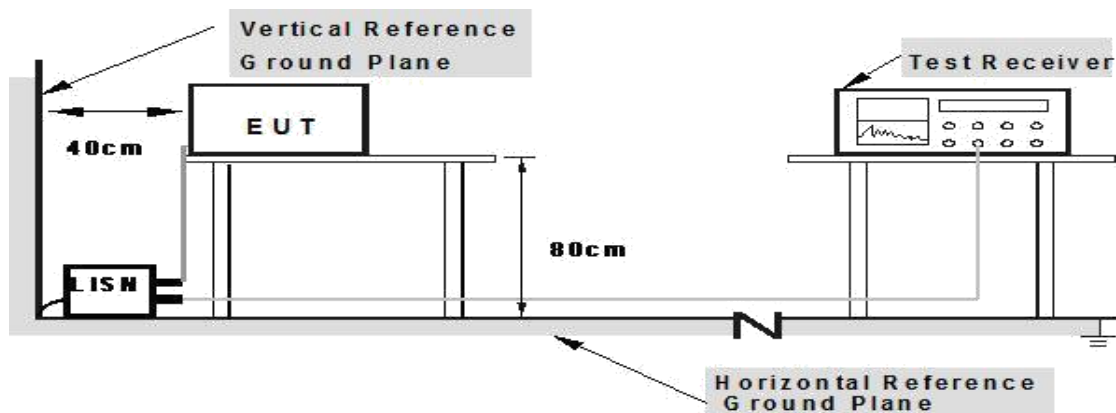
### 5.2.1 Limits

| Limits – Class A  |                    |           |
|---|--------------------|-----------|
| Frequency (MHz)   | Limit (dB $\mu$ V) |           |
|   | Quasi-Peak         | Average   |
| 0.15 to 0.5   | 79                 | 66        |
| 0.5 to 30   | 73                 | 60        |
| Limits – Class B  |                    |           |
| Frequency (MHz)   | Limit (dB $\mu$ V) |           |
|   | Quasi-Peak         | Average   |
| 0.15 to 0.5   | 66 to 56*          | 56 to 46* |
| 0.5 to 5  | 56                 | 46        |
| 5 to 30   | 60                 | 50        |
| Note:   |                    |           |
| 1. the tighter limit applies at the band edges.   |                    |           |
| 2. the limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range. |                    |           |

### 5.2.2 Test Procedures

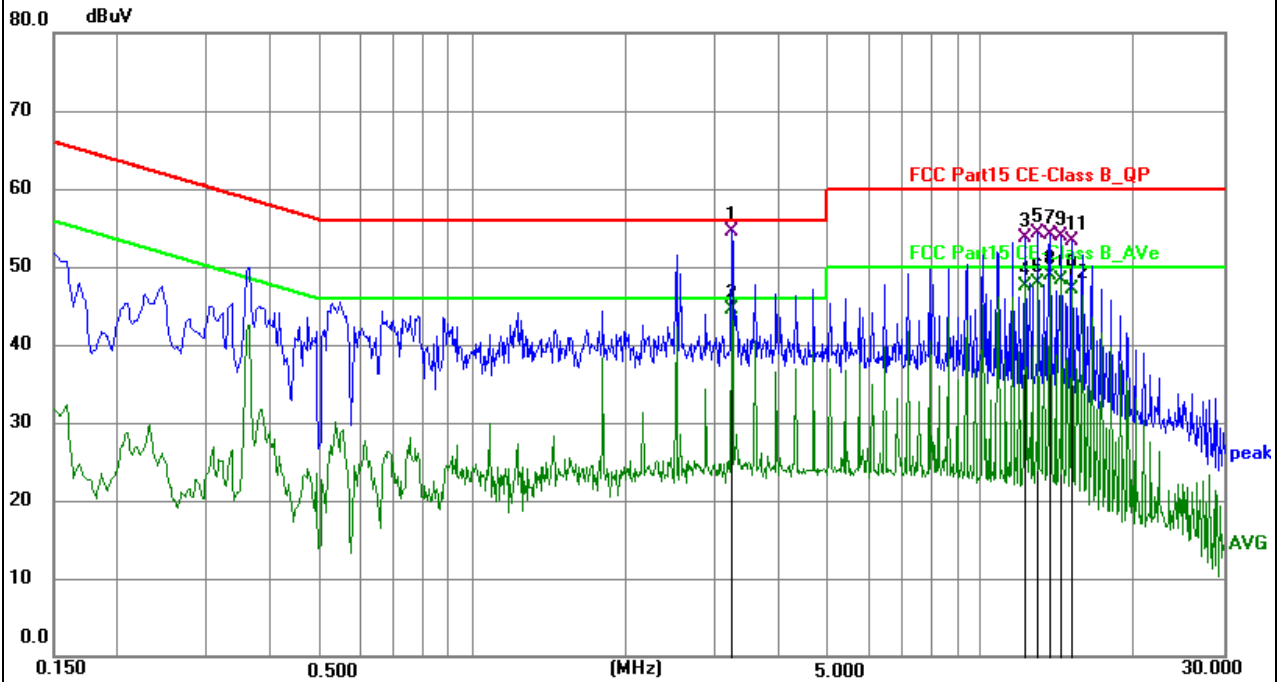
- a) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d) LISN is at least 80 cm from nearest part of EUT chassis.
- e) For the actual test configuration, please refer to the related Item – photographs of the test setup.

### 5.2.3 Test setup



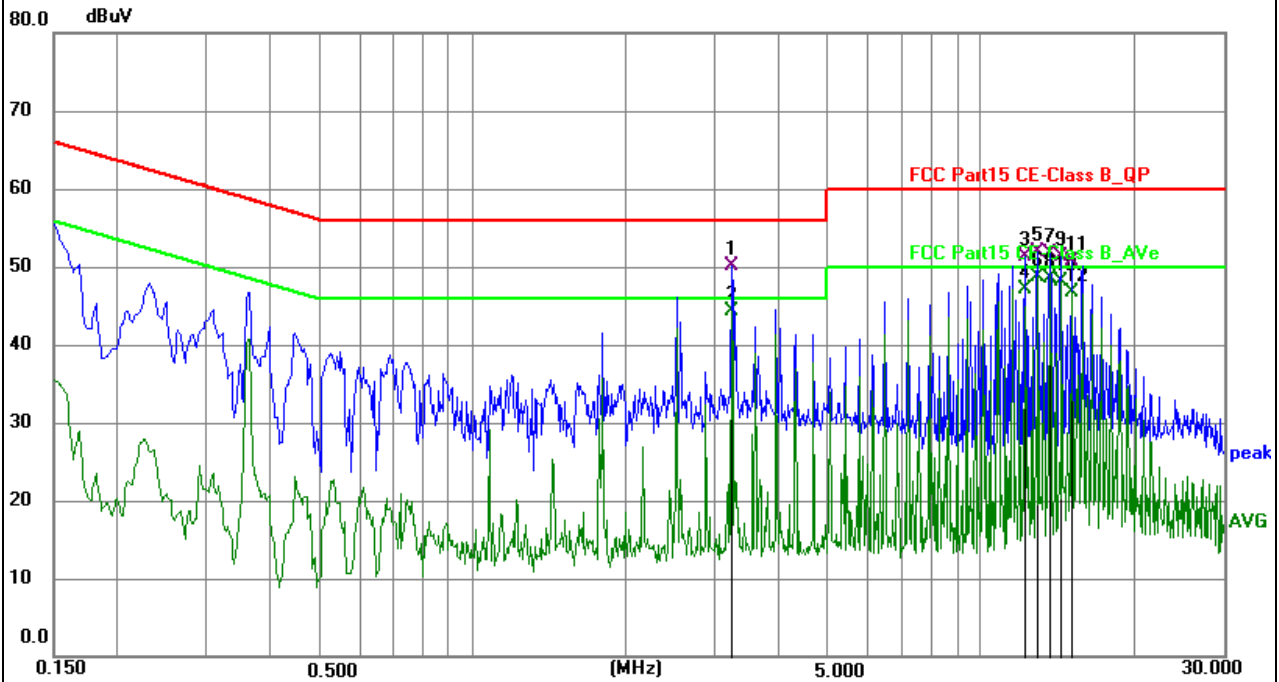
### 5.2.4 Test Result

|               |                                  |             |         |
|---------------|----------------------------------|-------------|---------|
| EUT:          | Wireless Charger                 | Model Name: | LCQ3112 |
| Test Mode:    | Mode 1                           | Phase:      | L       |
| Test Voltage: | DC 12V from adapter AC 120V/60Hz |             |         |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|
| 1   | 3.237000        | 44.46          | 10.14       | 54.60        | 56.00        | -1.40       | QP       |
| 2   | 3.237000        | 34.27          | 10.14       | 44.41        | 46.00        | -1.59       | AVG      |
| 3   | 12.232400       | 43.92          | 9.82        | 53.74        | 60.00        | -6.26       | QP       |
| 4   | 12.232400       | 37.78          | 9.82        | 47.60        | 50.00        | -2.40       | AVG      |
| 5   | 12.952500       | 44.43          | 9.82        | 54.25        | 60.00        | -5.75       | QP       |
| 6   | 12.952500       | 38.09          | 9.82        | 47.91        | 50.00        | -2.09       | AVG      |
| 7   | 13.672200       | 44.23          | 9.81        | 54.04        | 60.00        | -5.96       | QP       |
| 8 * | 13.672200       | 39.16          | 9.81        | 48.97        | 50.00        | -1.03       | AVG      |
| 9   | 14.392500       | 44.14          | 9.81        | 53.95        | 60.00        | -6.05       | QP       |
| 10  | 14.392500       | 38.44          | 9.81        | 48.25        | 50.00        | -1.75       | AVG      |
| 11  | 15.108000       | 43.43          | 9.80        | 53.23        | 60.00        | -6.77       | QP       |
| 12  | 15.108000       | 37.25          | 9.80        | 47.05        | 50.00        | -2.95       | AVG      |

|               |                                  |             |         |
|---------------|----------------------------------|-------------|---------|
| EUT:          | Wireless Charger                 | Model Name: | LCQ3112 |
| Test Mode:    | Mode 1                           | Phase:      | N       |
| Test Voltage: | DC 12V from adapter AC 120V/60Hz |             |         |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|
| 1   | 3.237000        | 40.02          | 10.14       | 50.16        | 56.00        | -5.84       | QP       |
| 2   | 3.237000        | 34.12          | 10.14       | 44.26        | 46.00        | -1.74       | AVG      |
| 3   | 12.232500       | 41.40          | 9.82        | 51.22        | 60.00        | -8.78       | QP       |
| 4   | 12.232500       | 37.35          | 9.82        | 47.17        | 50.00        | -2.83       | AVG      |
| 5   | 12.952500       | 42.04          | 9.82        | 51.86        | 60.00        | -8.14       | QP       |
| 6 * | 12.952500       | 38.94          | 9.82        | 48.76        | 50.00        | -1.24       | AVG      |
| 7   | 13.677000       | 41.90          | 9.81        | 51.71        | 60.00        | -8.29       | QP       |
| 8   | 13.677000       | 38.67          | 9.81        | 48.48        | 50.00        | -1.52       | AVG      |
| 9   | 14.392500       | 41.49          | 9.81        | 51.30        | 60.00        | -8.70       | QP       |
| 10  | 14.392500       | 38.26          | 9.81        | 48.07        | 50.00        | -1.93       | AVG      |
| 11  | 15.112500       | 40.84          | 9.80        | 50.64        | 60.00        | -9.36       | QP       |
| 12  | 15.112500       | 36.85          | 9.80        | 46.65        | 50.00        | -3.35       | AVG      |

## 5.3 Radiated Emission

### 5.3.1 Limits

| Frequencies (MHz) | Field Strength (micorvolts/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                             |

| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

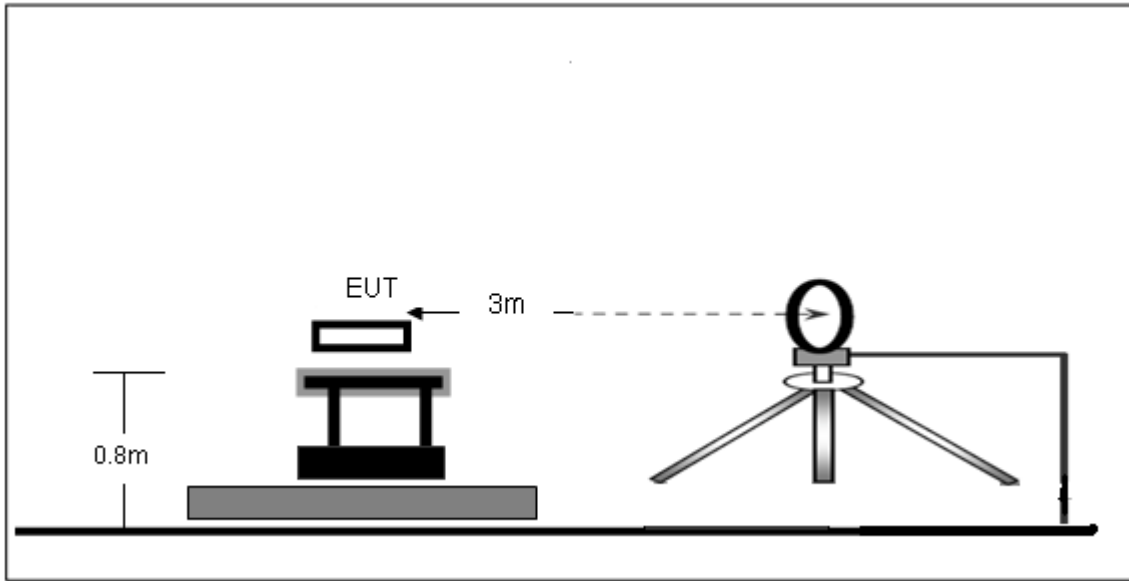
### 5.3.2 Test Procedures

- a) The radiated emission tests were performed in the 3 meters.
- b) The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d) If the peak mode measured value compliance with and lower than quasi peak mode limit, the EUT shall be deemed to meet QP limits and then no additional QP mode measurement performed.
- e) If the peak mode measured value compliance with and lower than average mode limit, the EUT shall be deemed to meet average limits and then no additional average mode measurement performed.
- f) For the actual test configuration, please refer to the related item – EUT test photos.

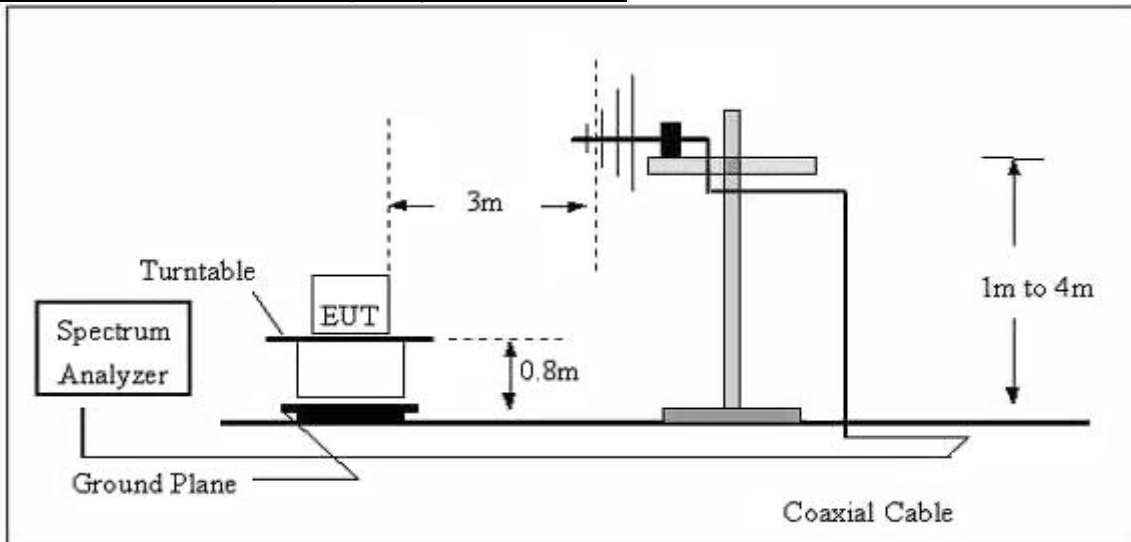
### 5.3.3 Test Setup



Radiated Emission Test-Up Frequency Below 30MHz



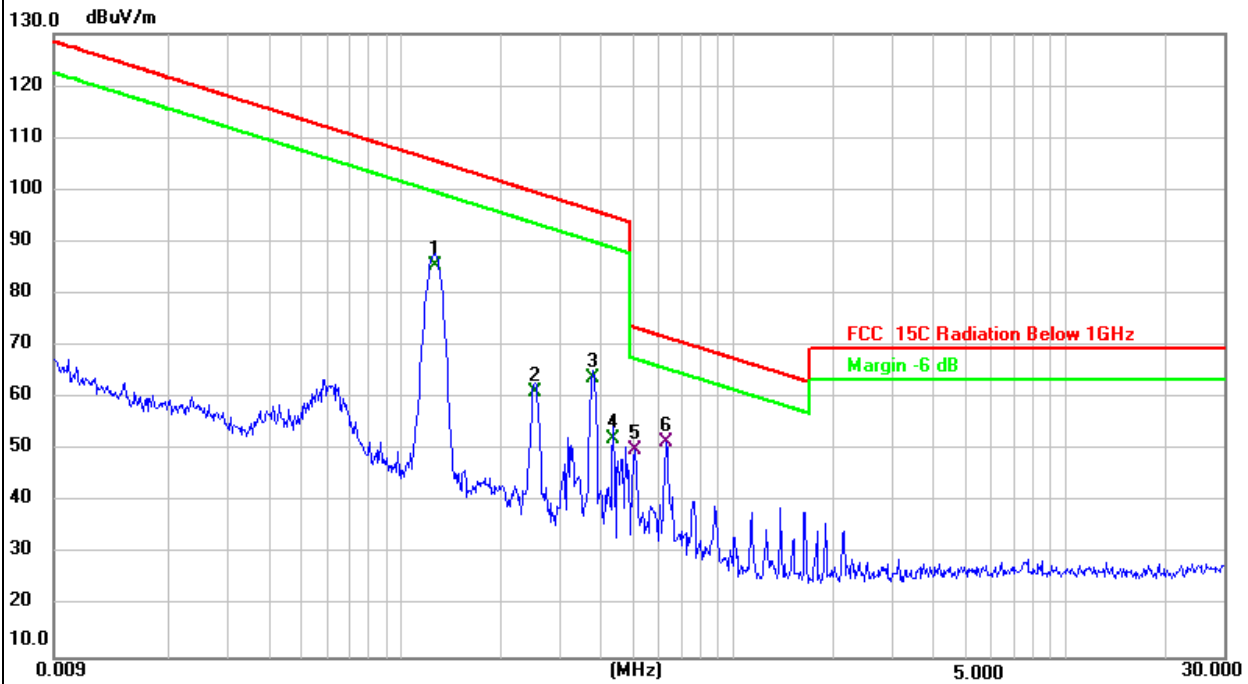
Radiated Emission Test-Up Frequency 30MHz~1GHz



**5.3.4 Test Result**

Frequency range (9kHz – 30MHz)

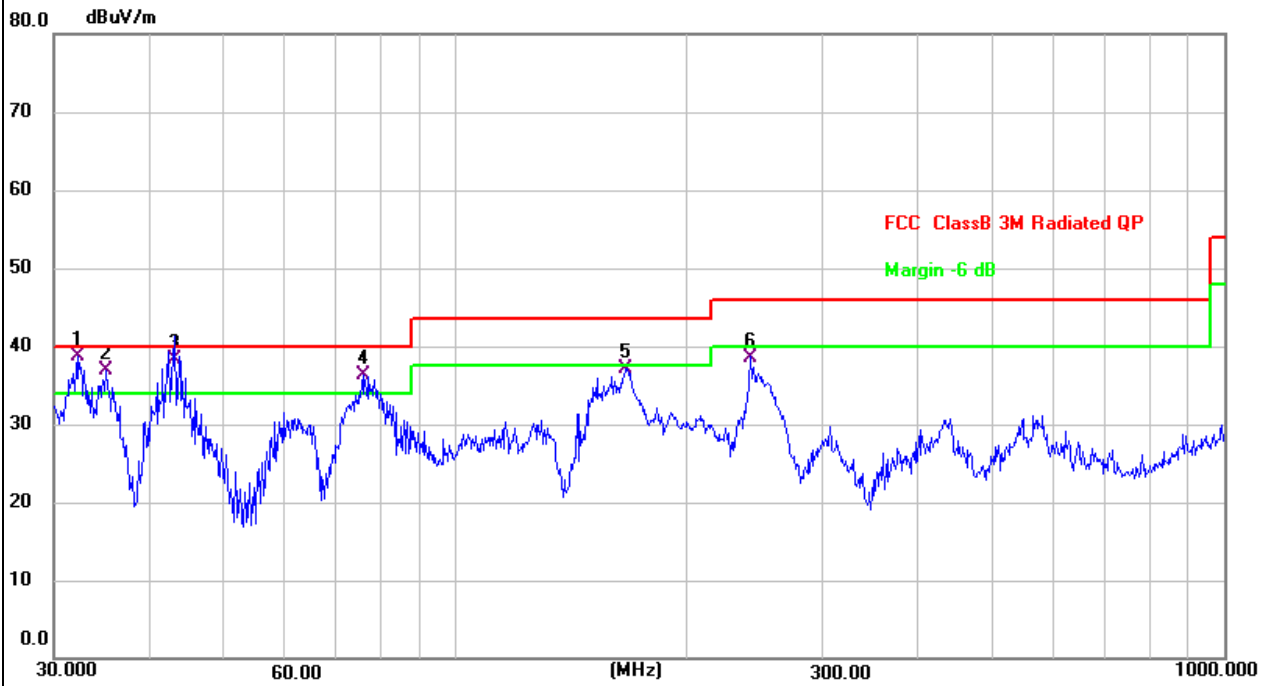
|               |                                  |             |         |
|---------------|----------------------------------|-------------|---------|
| EUT:          | Wireless Charger                 | Model Name: | LCQ3112 |
| Test Mode:    | Mode 1                           | Phase:      | Coaxial |
| Test Voltage: | DC 12V from adapter AC 120V/60Hz |             |         |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 0.1265          | 66.28          | 19.12         | 85.40          | 105.58         | -20.18      | AVG      |
| 2   | 0.2524          | 42.03          | 19.27         | 61.30          | 99.57          | -38.27      | AVG      |
| 3   | 0.3785          | 44.50          | 19.30         | 63.80          | 96.05          | -32.25      | AVG      |
| 4   | 0.4345          | 32.79          | 19.31         | 52.10          | 94.85          | -42.75      | AVG      |
| 5   | 0.5030          | 30.66          | 19.34         | 50.00          | 73.57          | -23.57      | QP       |
| 6   | 0.6260          | 32.14          | 19.35         | 51.49          | 71.68          | -20.19      | QP       |

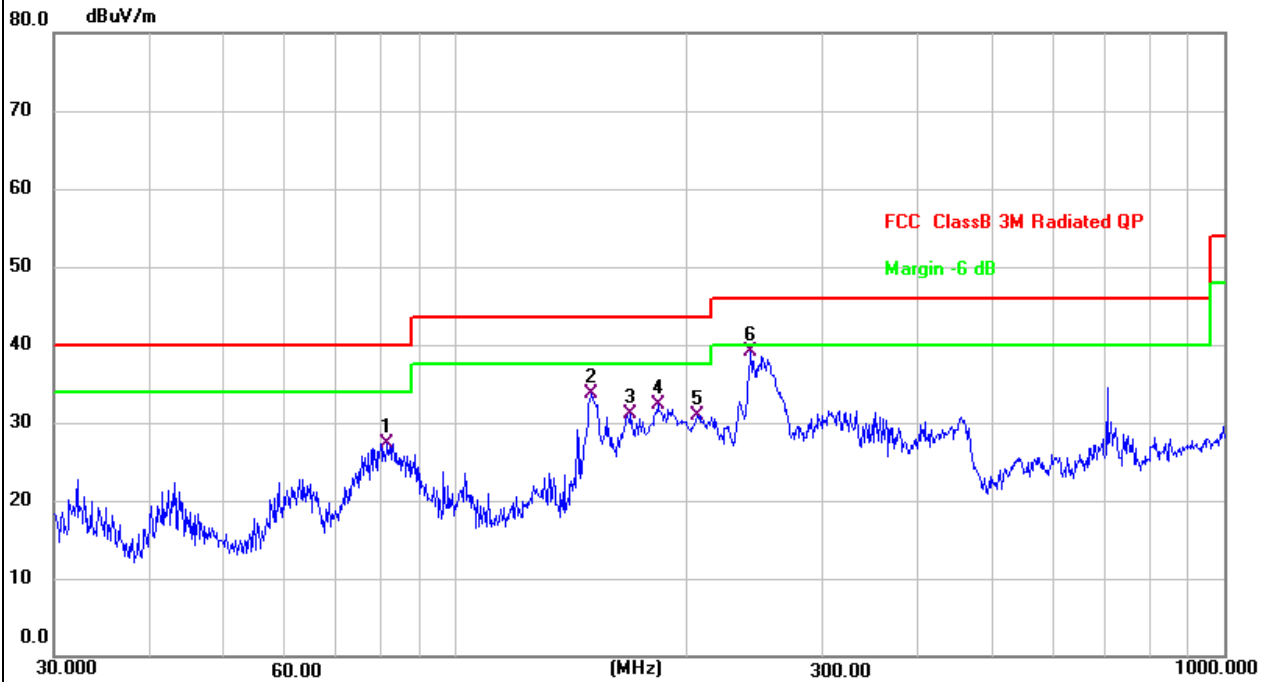
Frequency range (30MHz – 1GHz)

|               |                                  |             |          |
|---------------|----------------------------------|-------------|----------|
| EUT:          | Wireless Charger                 | Model Name: | LCQ3112  |
| Test Mode:    | Mode 1                           | Phase:      | Vertical |
| Test Voltage: | DC 12V from adapter AC 120V/60Hz |             |          |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 32.1795         | 54.10          | -15.41        | 38.69          | 40.00          | -1.31       | QP       |
| 2 ! | 35.1278         | 51.88          | -14.96        | 36.92          | 40.00          | -3.08       | QP       |
| 3 ! | 43.0505         | 52.55          | -14.15        | 38.40          | 40.00          | -1.60       | QP       |
| 4 ! | 75.7114         | 54.04          | -17.75        | 36.29          | 40.00          | -3.71       | QP       |
| 5   | 166.6514        | 51.34          | -14.15        | 37.19          | 43.50          | -6.31       | QP       |
| 6   | 241.6763        | 53.52          | -14.92        | 38.60          | 46.00          | -7.40       | QP       |

|               |                                  |             |            |
|---------------|----------------------------------|-------------|------------|
| EUT:          | Wireless Charger                 | Model Name: | LCQ3112    |
| Test Mode:    | Mode 1                           | Phase:      | Horizontal |
| Test Voltage: | DC 12V from adapter AC 120V/60Hz |             |            |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 81.4970         | 46.27          | -18.91        | 27.36          | 40.00          | -12.64      | QP       |
| 2   | 150.0108        | 47.52          | -13.88        | 33.64          | 43.50          | -9.86       | QP       |
| 3   | 169.0054        | 45.50          | -14.33        | 31.17          | 43.50          | -12.33      | QP       |
| 4   | 183.2005        | 47.77          | -15.45        | 32.32          | 43.50          | -11.18      | QP       |
| 5   | 206.3976        | 47.47          | -16.62        | 30.85          | 43.50          | -12.65      | QP       |
| 6 * | 241.6763        | 54.05          | -14.92        | 39.13          | 46.00          | -6.87       | QP       |

## 5.4 Occupied Bandwidth

### 5.4.1 Test method

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW  $\geq 1\%$  of the 20 dB bandwidth

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

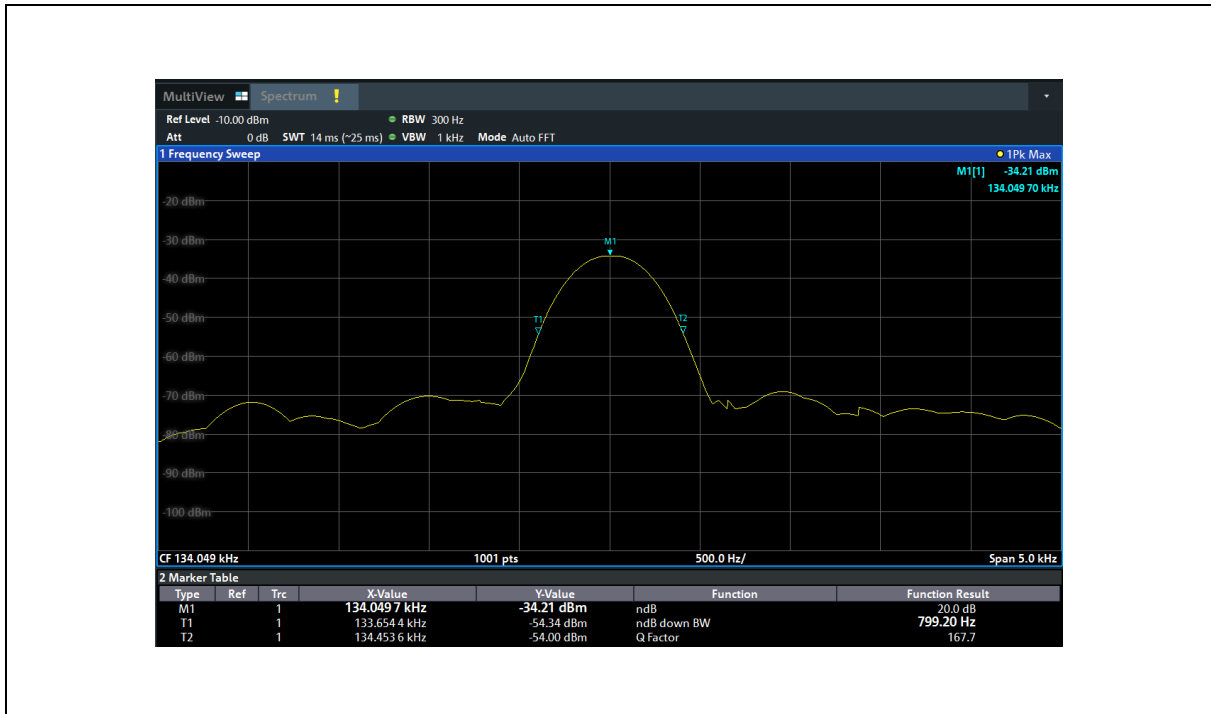
Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth and 99% occupied bandwidth of the emission.

### 5.4.2 Test result

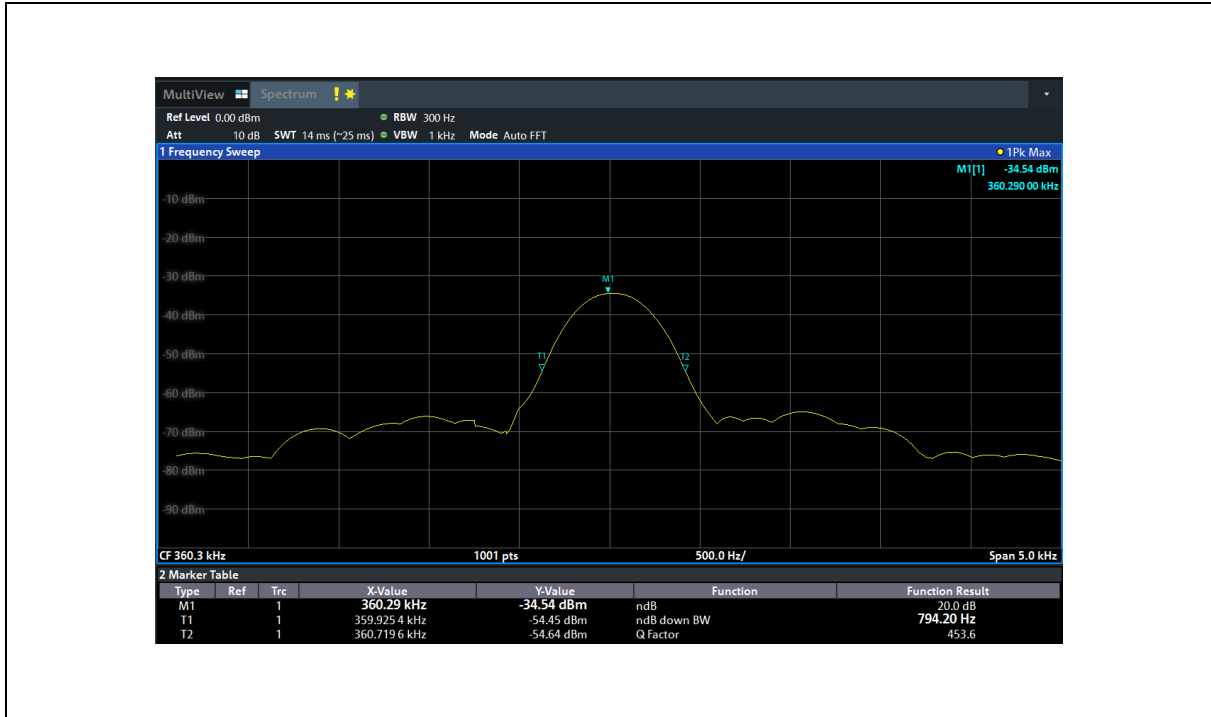
| Frequency (kHz) | 20dB emission bandwidth (Hz) |
|-----------------|------------------------------|
| 134.049         | 799.2                        |

Phone: Test plots as below:



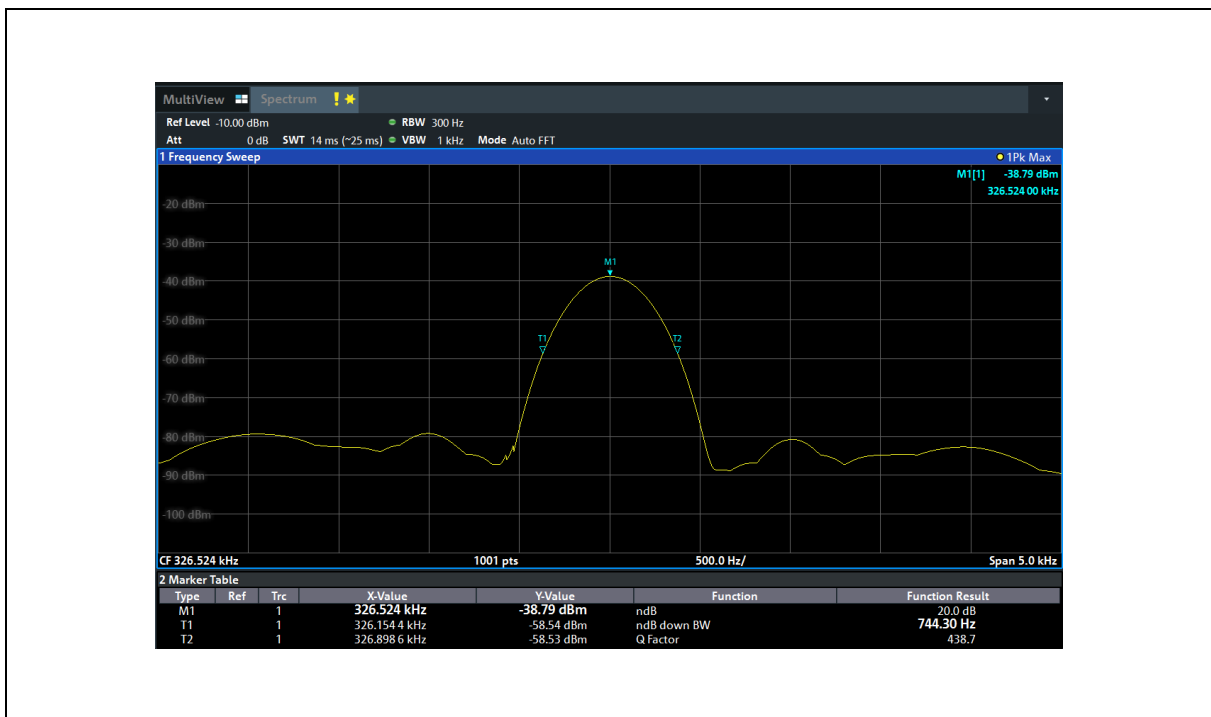
|                 |                              |
|-----------------|------------------------------|
| Frequency (kHz) | 20dB emission bandwidth (Hz) |
| 360.290         | 794.2                        |

Phone: Test plots as below:



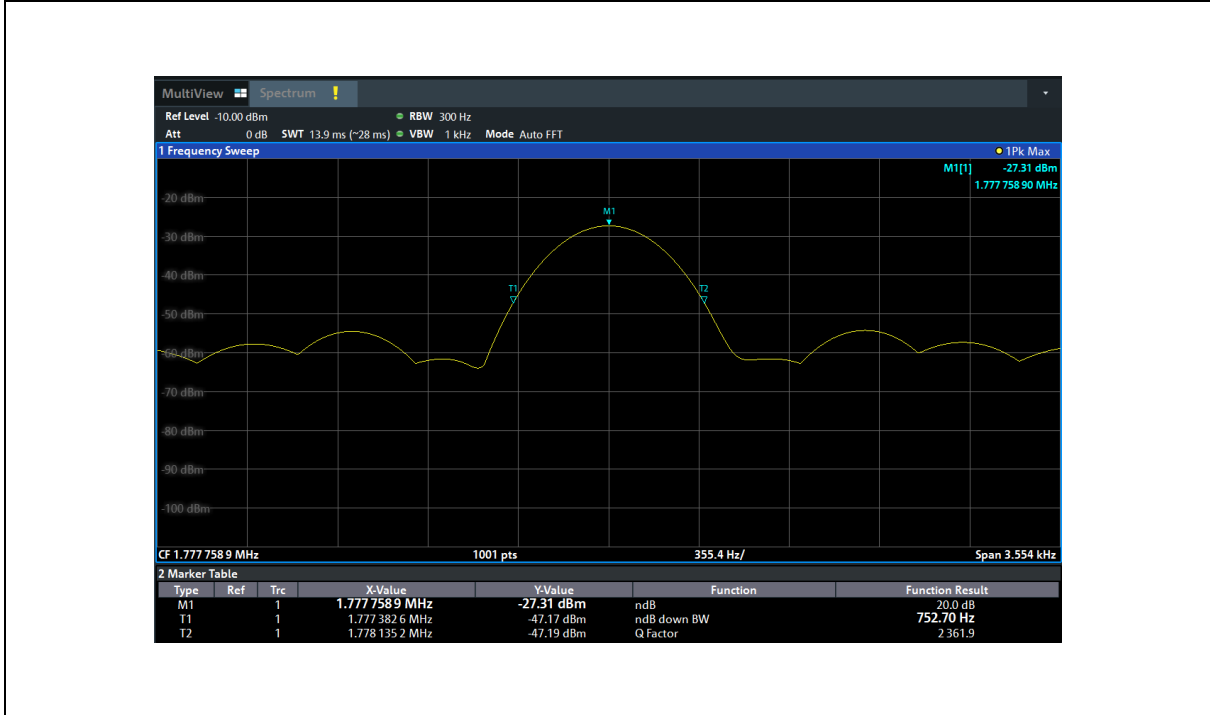
|                 |                              |
|-----------------|------------------------------|
| Frequency (kHz) | 20dB emission bandwidth (Hz) |
| 326.524         | 744.3                        |

Watch: Test plots as below:



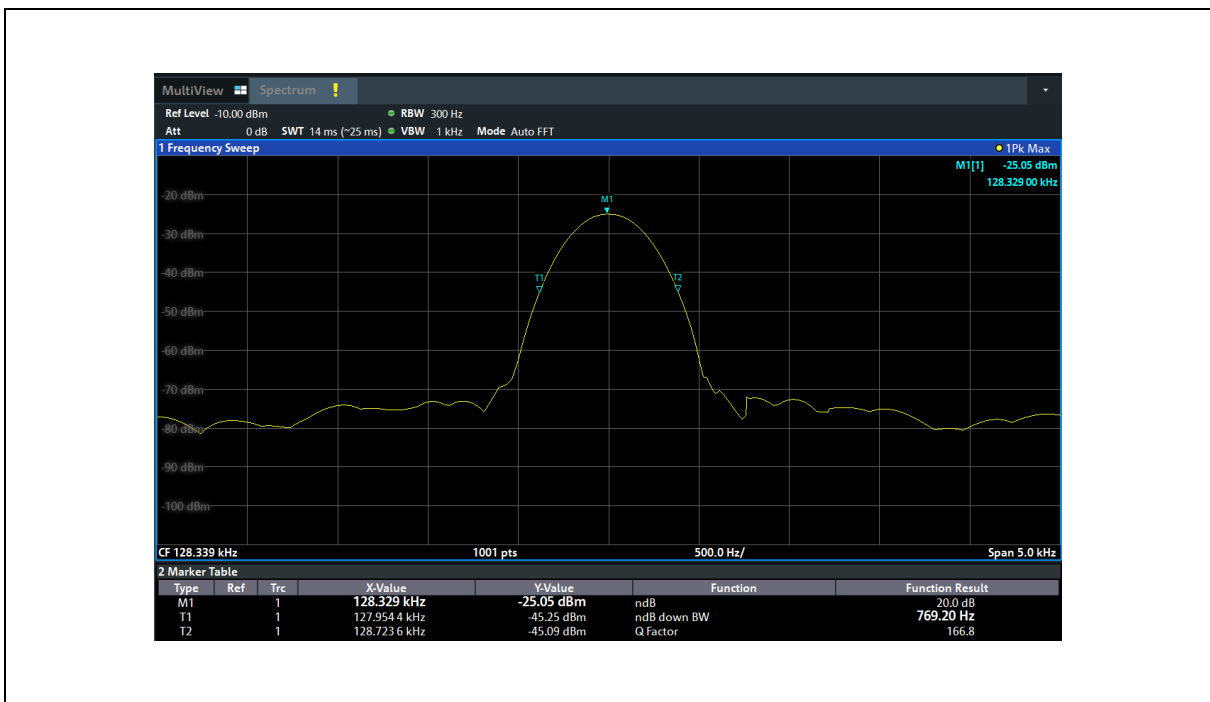
|                 |                              |
|-----------------|------------------------------|
| Frequency (kHz) | 20dB emission bandwidth (Hz) |
| 1777.758        | 752.7                        |

Watch: Test plots as below:



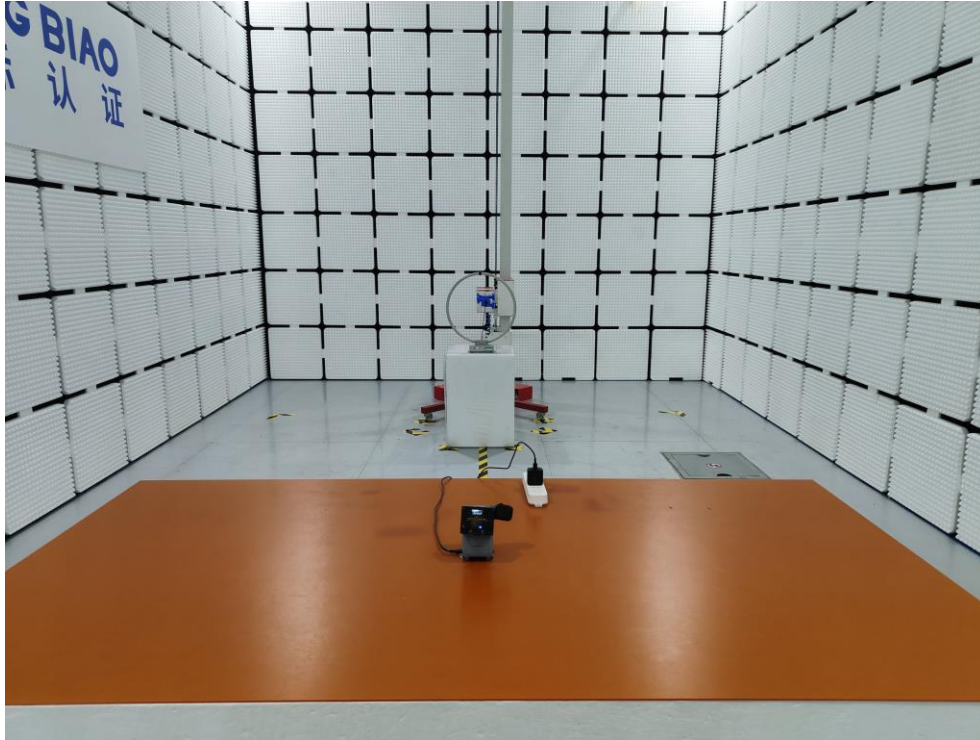
|                 |                              |
|-----------------|------------------------------|
| Frequency (kHz) | 20dB emission bandwidth (Hz) |
| 128.329         | 769.20                       |

Air Pods: Test plots as below:



## 6 Photographs of the Test Setup

Radiated Emission Below 30MHz

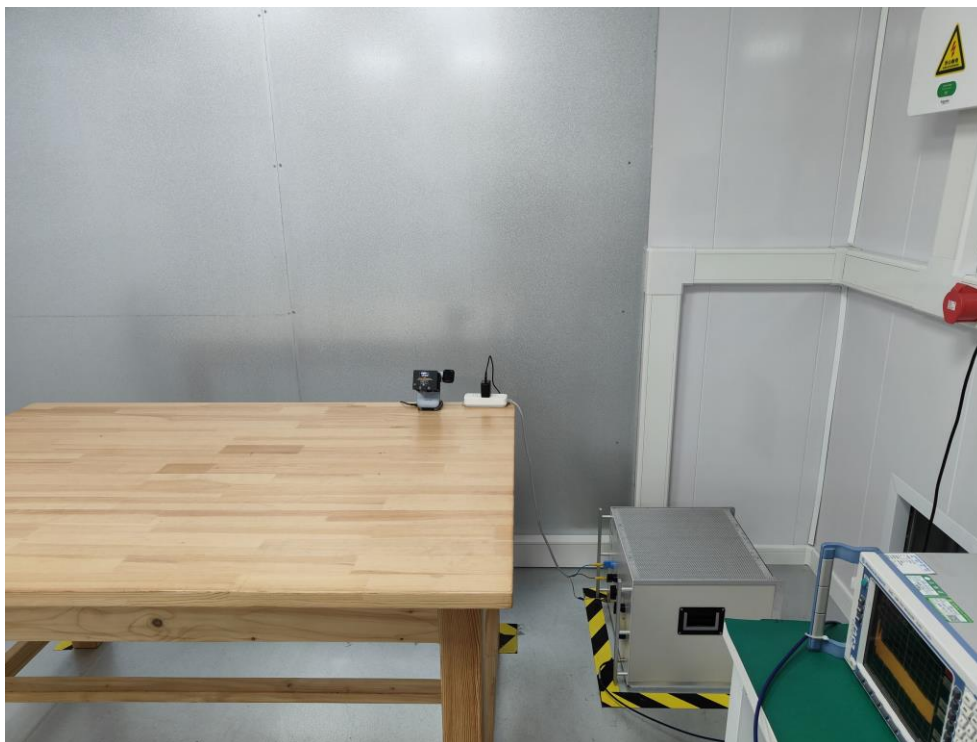


Radiated Emission Above 30MHz





Conducted Emission



## 7 Photographs of the EUT

Photo 1

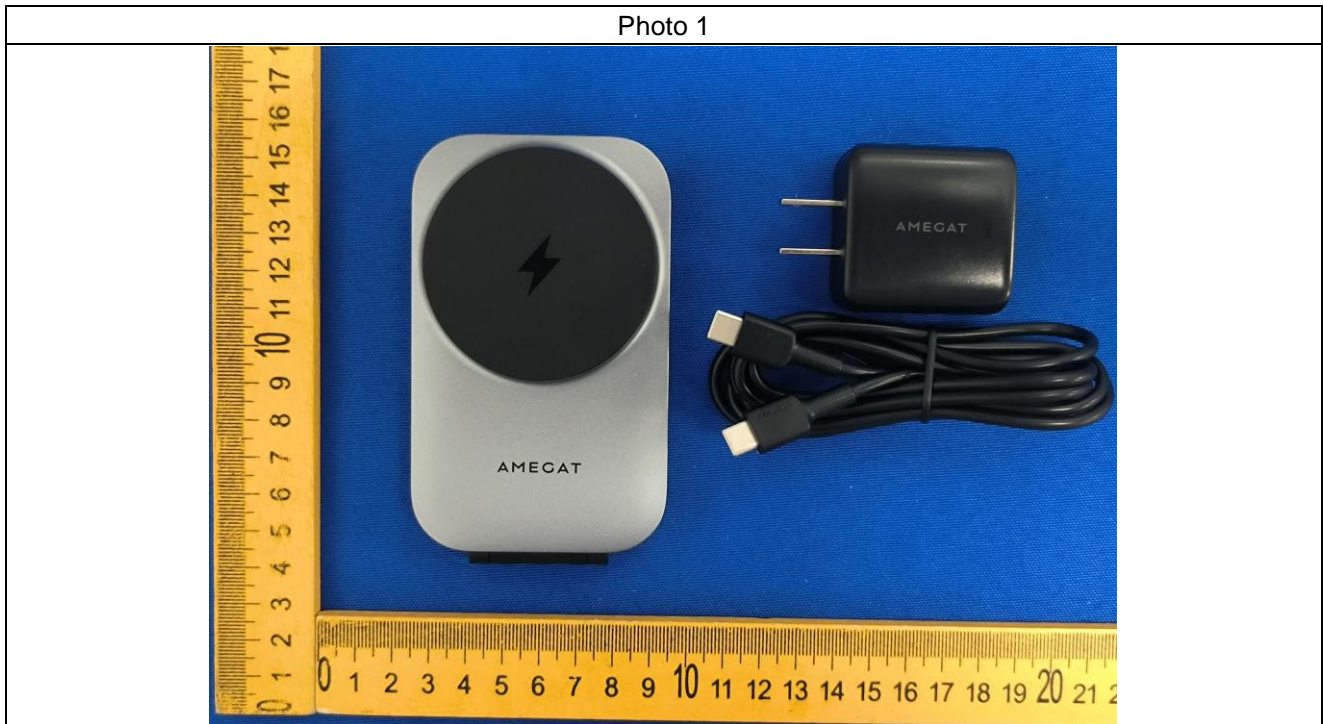


Photo 2



Photo 3



Photo 4



Photo 5

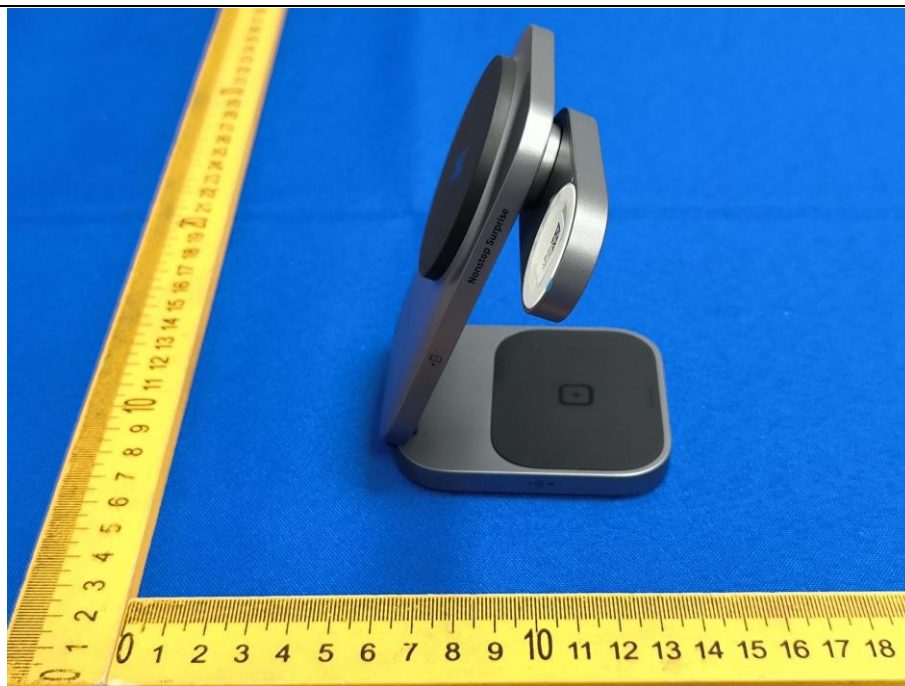


Photo 6



Photo 7

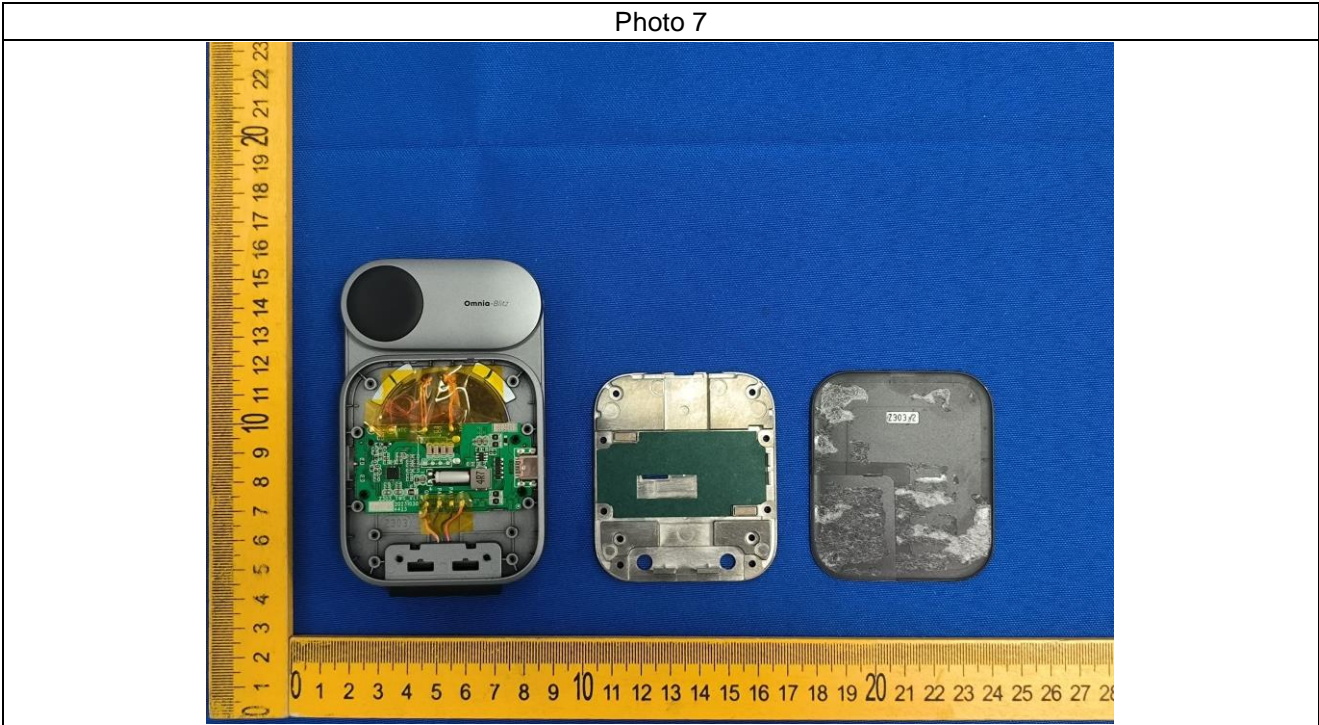


Photo 8

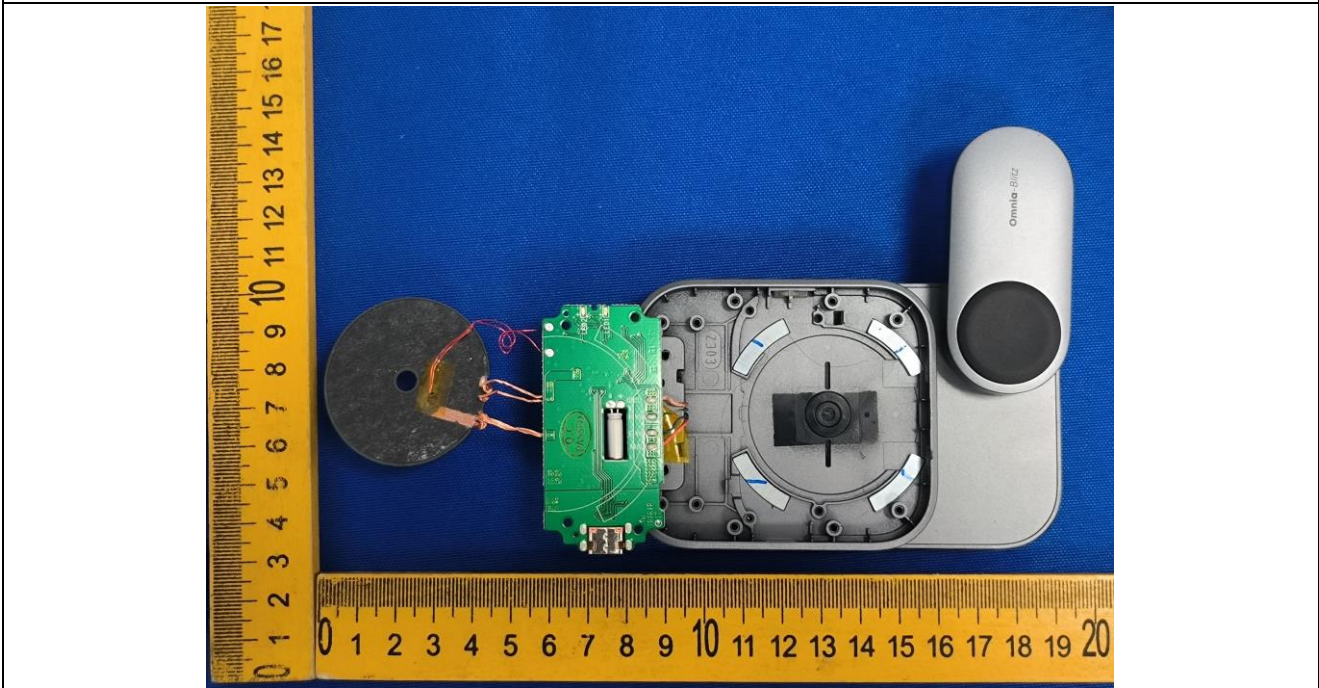


Photo 9

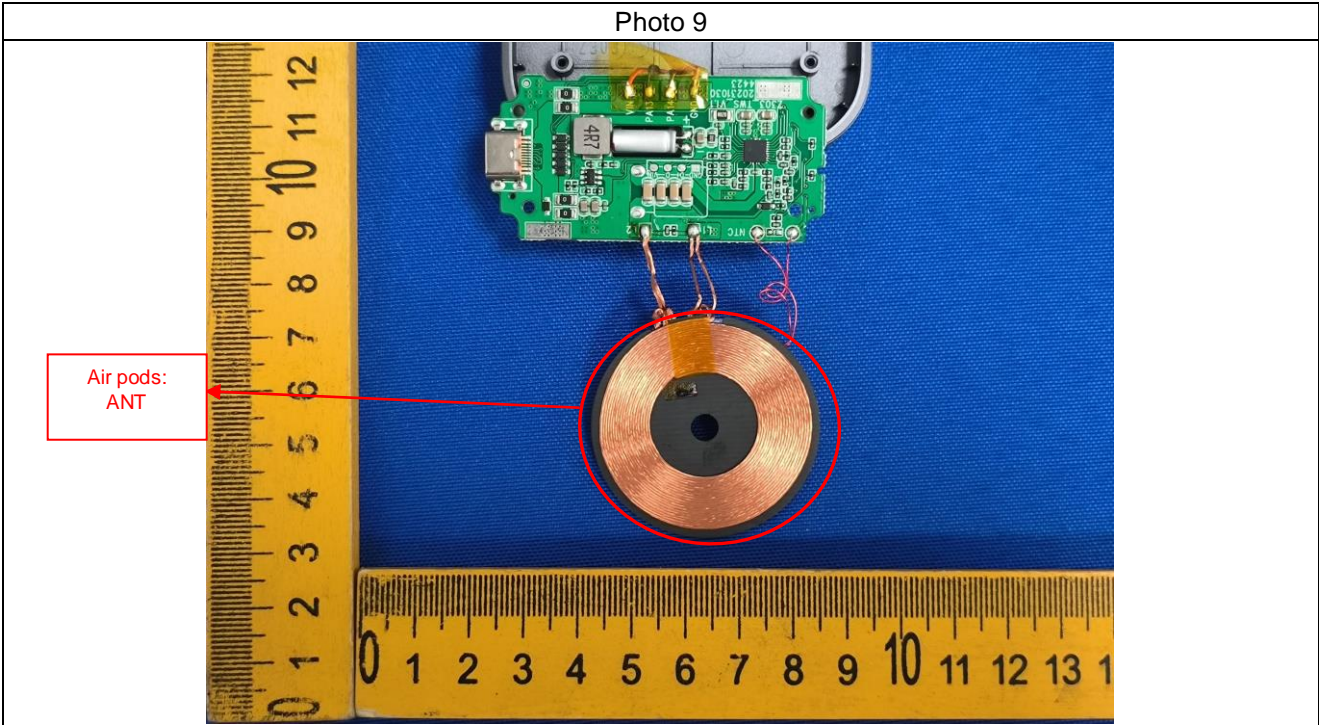


Photo 10

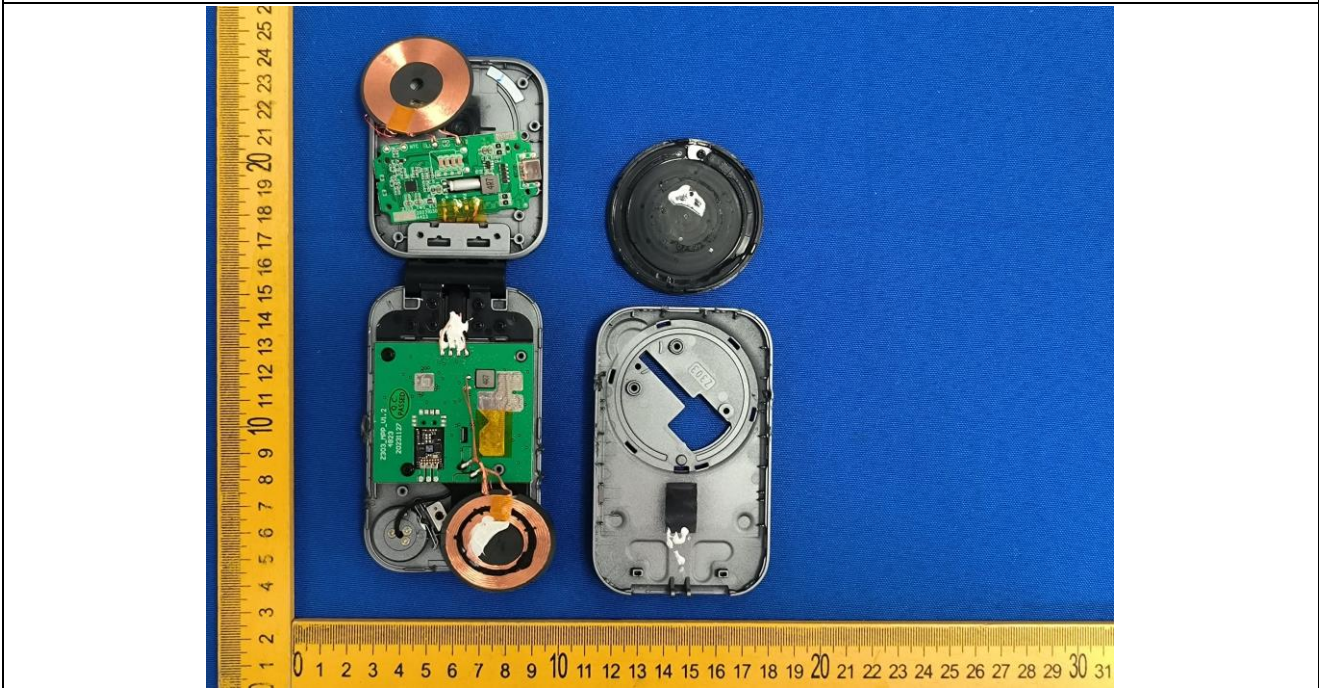


Photo 11

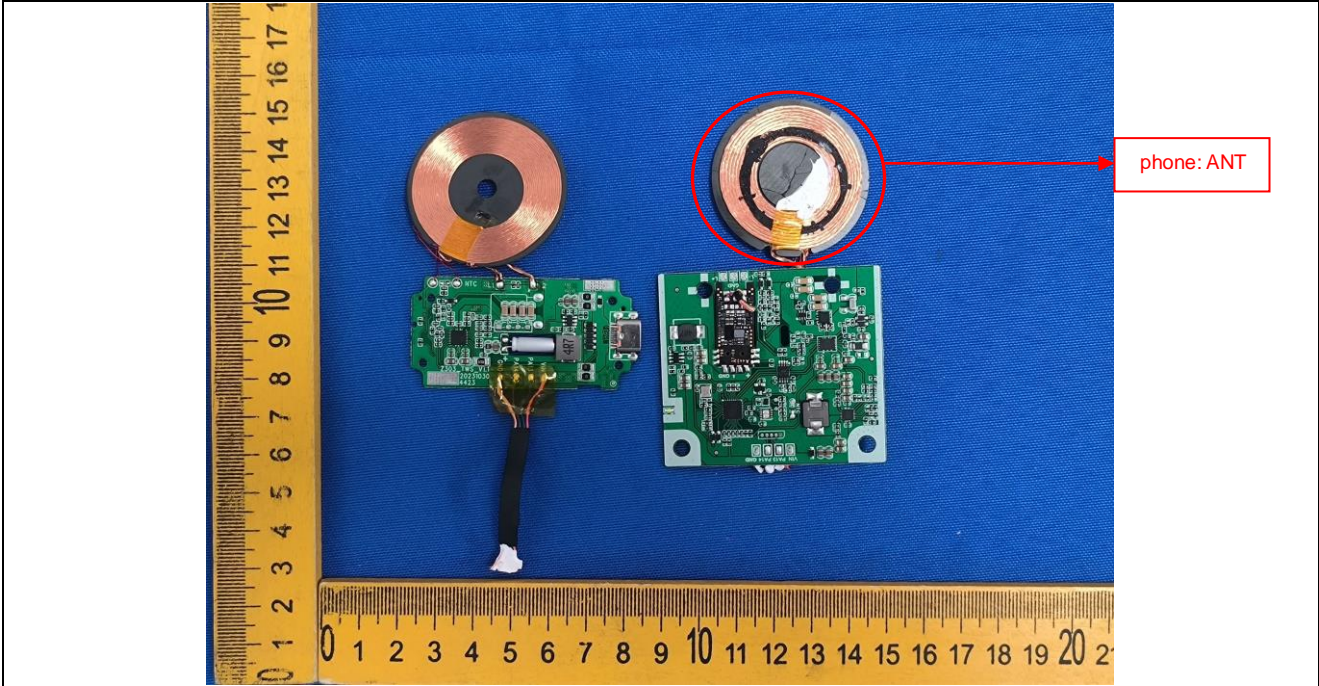


Photo 12

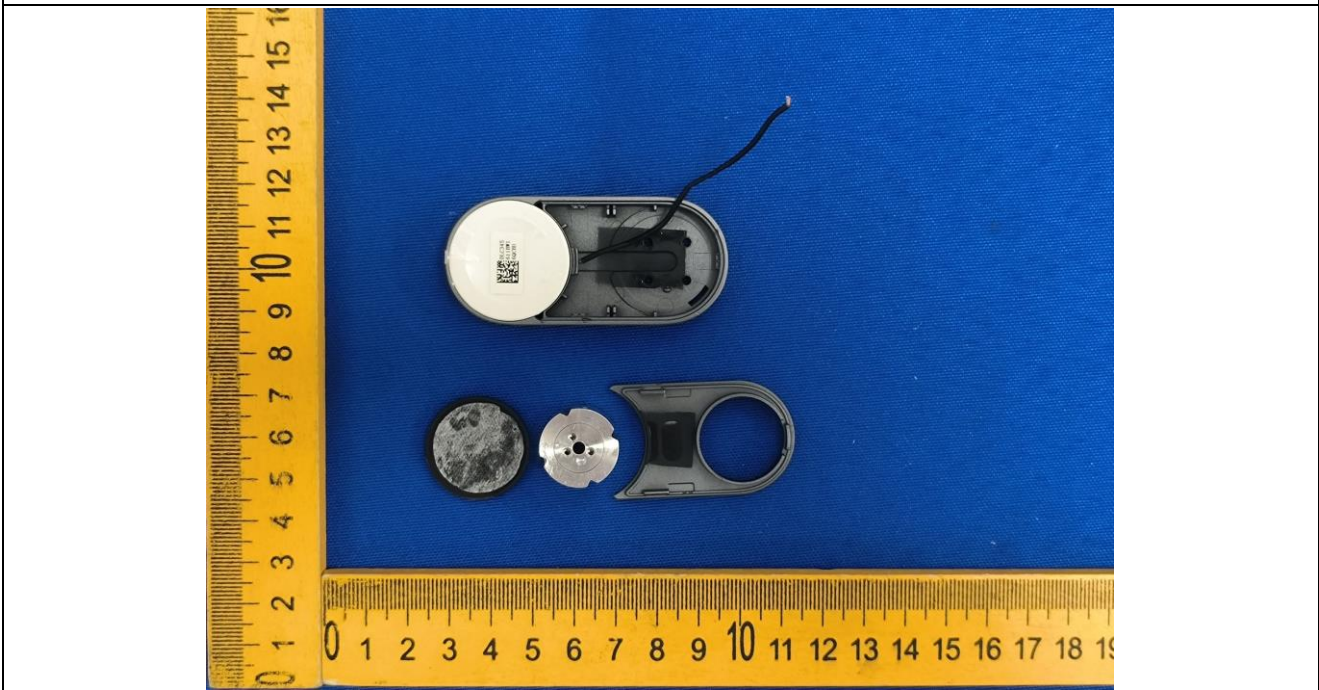


Photo 13

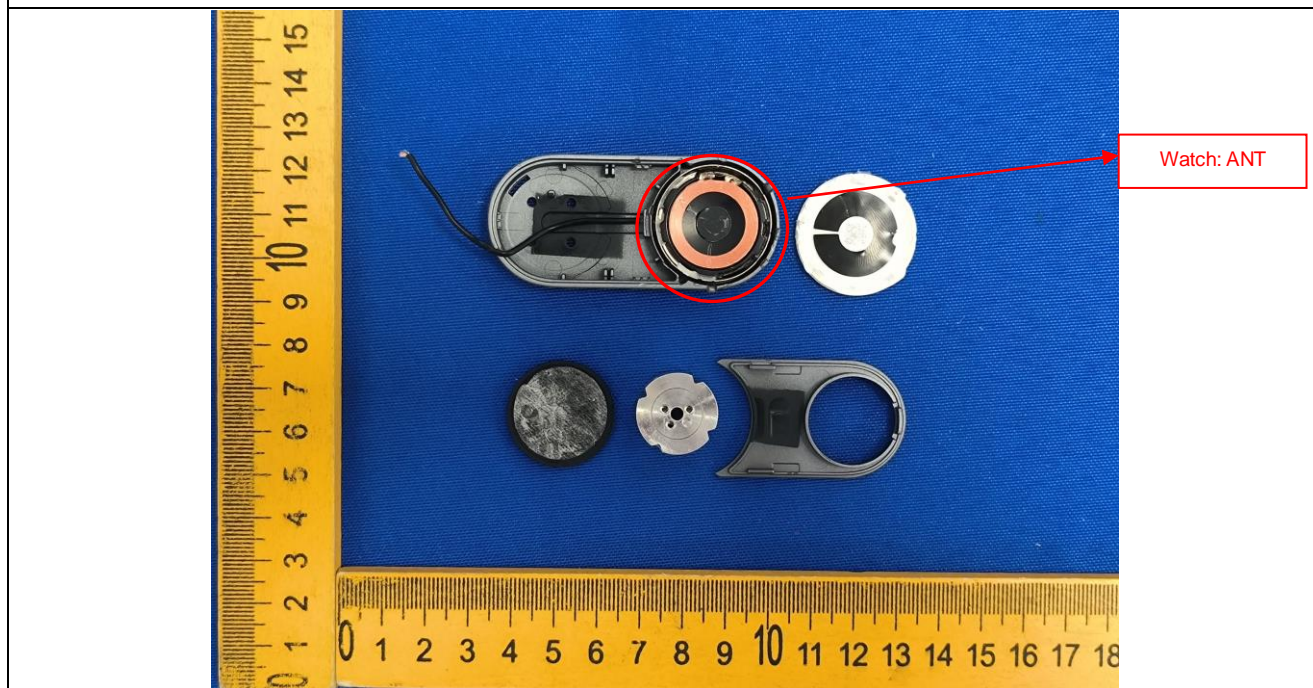
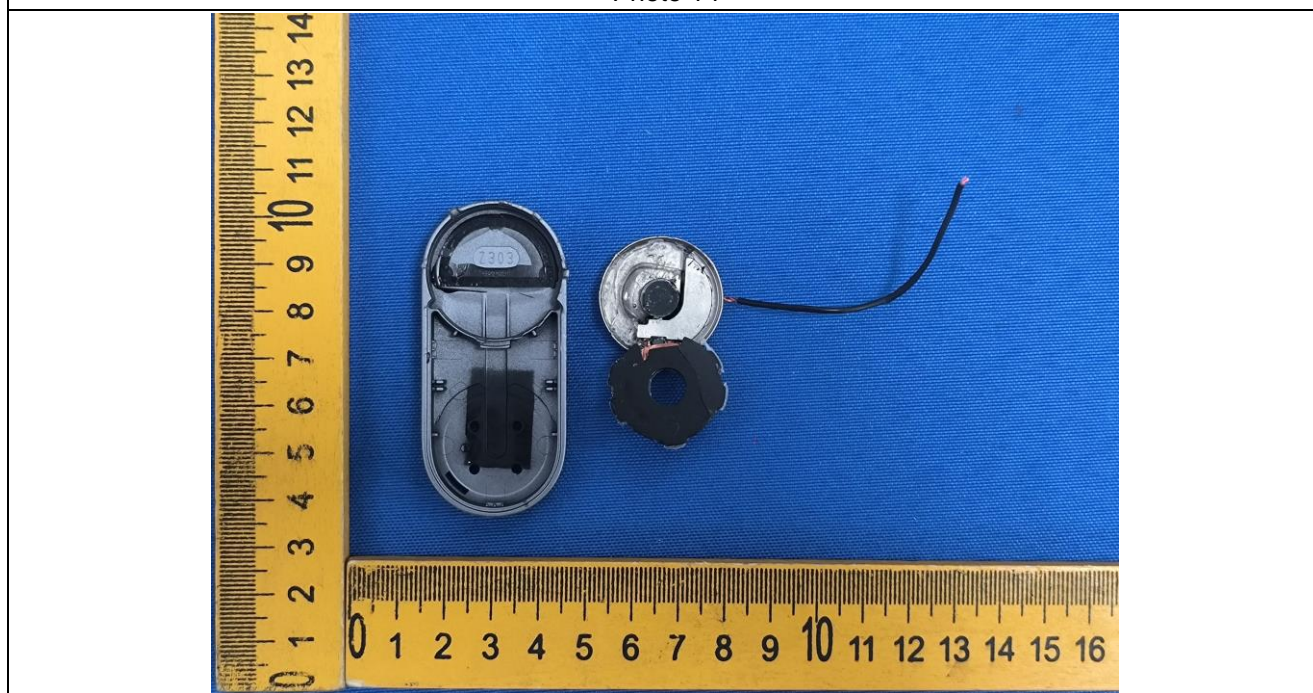


Photo 14



\*\*\*\*\* END OF REPORT \*\*\*\*\*