

# TEST REPORT

**Applicant:** SHENZHEN 8BITDO TECH CO., LTD.  
**Address:** Room 210, Building 1, Nanhai Ecool, No.6 Xinghua Road, Shekou, Nanshan District, Shenzhen, Guangdong, China  
**Equipment Type:** 8BitDo N30 Wireless Charger for Mobile  
**Model Name:** 85DA (refer section 2.4)  
**Brand Name:** 8BITDO  
**FCC ID:** 2AOWF-N30WCM  
**Test Standard:** 47 CFR Part 15 Subpart C  
**Sample Arrival Date:** Sep. 29, 2022  
**Test Date:** Oct. 29, 2022 – Oct. 31, 2022  
**Date of Issue:** Dec. 16, 2022

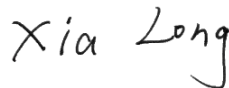
**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Xiong Chong

**Checked by:** Xia Long

**Approved by:** Liao Jianming  
(Technical Director)



| <b>Revision History</b> |                      |                      |
|-------------------------|----------------------|----------------------|
| Version                 | Issue Date           | Revisions            |
| <u>Rev. 01</u>          | <u>Dec. 16, 2022</u> | <u>Initial Issue</u> |

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# 1 GENERAL INFORMATION

## 1.1 Test Laboratory

|              |  |
|--------------|--|
| Name         | Shenzhen BALUN Technology Co., Ltd.  |
| Address      | Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Phone Number | +86 755 6685 0100  |

## 1.2 Test Location

|                           |   |
|---------------------------|---|
| Name                      | Shenzhen BALUN Technology Co., Ltd.   |
| Location                  | <input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China  |
|                           | <input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Accreditation Certificate | The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.  |

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

|           |   |
|-----------|---|
| Applicant | SHENZHEN 8BITDO TECH CO., LTD.  |
| Address   | Room 210, Building 1, Nanhai Ecool, No.6 Xinghua Road, Shekou, Nanshan District, Shenzhen, Guangdong, China |

### 2.2 Manufacturer Information

|              |   |
|--------------|---|
| Manufacturer | SHENZHEN ONEBITDO TECH CO., LTD.  |
| Address      | Room 203, Building 1, Huajian Building, Xinghua Road, Shekou, Shuiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, China |

### 2.3 Factory Information

|         |  |
|---------|--|
| Factory | Shenzhen Zhongxingda Electronic Co., Ltd.  |
| Address | 3-4/F, Bldg 10, Tongfuyu Industrial Zone, Lezhujiao Village, Xixiang, Baoan District, Shenzhen, Guangdong, China |

### 2.4 General Description for Equipment under Test (EUT)

|   |  |
|---|--|
| EUT Name                                  | 8BitDo N30 Wireless Charger for Mobile   |
| Model Name Under Test                     | 85DA   |
| Series Model Name                         | 85DA01, 85DA02, 85DA03   |
| Description of Model name differentiation | The hardware circuit and software are identical to the basic model, except the color and screen printing of the shell. (this information provided by the customer) |
| Hardware Version                          | DS6403V00  |
| Software Version                          | A9200_9018_V1.67   |
| Dimensions (Approx.)                      | N/A  |
| Weight (Approx.)                          | N/A  |

## 2.5 Ancillary Equipment

|                       |                  |       |
|-----------------------|------------------|-------|
| Ancillary Equipment 1 | Type-C Cable     |       |
|                       | Model No.        | N/A   |
|                       | Length (Approx.) | 0.9 m |

## 2.6 Technical Information

|                                   |    |
|-----------------------------------|----|
| Network and Wireless connectivity | Qi |
|-----------------------------------|----|

The requirement for the following technical information of the EUT was tested in this report:

|                     |  |
|---------------------|--|
| Operating Frequency | 110.5kHz~148.5kHz  |
| Product Type        | <input checked="" type="checkbox"/> Mobile<br><input type="checkbox"/> Portable<br><input type="checkbox"/> Fix Location |
| Antenna Type        | Coil Antenna   |
| About Product       | The EUT only support the Qi technology.  |

### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

| No. | Identity                     | Document Title   |
|-----|------------------------------|--|
| 1   | 47 CFR Part 15,<br>Subpart C | Intentional Radiators  |
| 2   | ANSI C63.10-2013             | American National Standard for Testing Unlicensed Wireless Devices |

#### 3.2 Verdict

| No.  | Description                  | FCC Rule         | Test Verdict | Result    |
|--|------------------------------|------------------|--------------|-----------|
| 1  | Radiated Emission            | 15.209,15.215(b) | Pass         | Annex A.1 |
| 2  | Conducted Emission, AC Ports | 15.207           | Pass         | Annex A.2 |
| 3  | 20 dB Bandwidth              | 15.215(c)        | Pass         | Annex A.3 |
| Note1: The EUT has two test modes, as follow:<br>Mode1: EUT + Type-C Cable + Adapter + Qi TX<br>Mode2: EUT + Type-C Cable + Adapter + Simulated Load + Qi Link |                              |                  |              |           |

#### 3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| Measurement                           | Value   |
|---------------------------------------|---------|
| Conducted emissions (9 kHz-30 MHz)    | 4.28 dB |
| Radiated emissions (9 kHz-30 MHz)     | 3.22 dB |
| Radiated emissions (30 MHz-1 GHz)-10m | 4.80 dB |
| Radiated emissions (30 MHz-1 GHz)-3m  | 4.76 dB |
| Radiated emissions (1 GHz-18 GHz)-3m  | 4.88 dB |

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

|                            |                         |                         |
|----------------------------|-------------------------|-------------------------|
| Relative Humidity          | 30% to 60%              |                         |
| Atmospheric Pressure       | 100 kPa to 102 kPa      |                         |
| Temperature                | NT (Normal Temperature) | +22°C to +25°C          |
| Working Voltage of the EUT | NV (Normal Voltage)     | USB 5V, USB 9V, USB 12V |

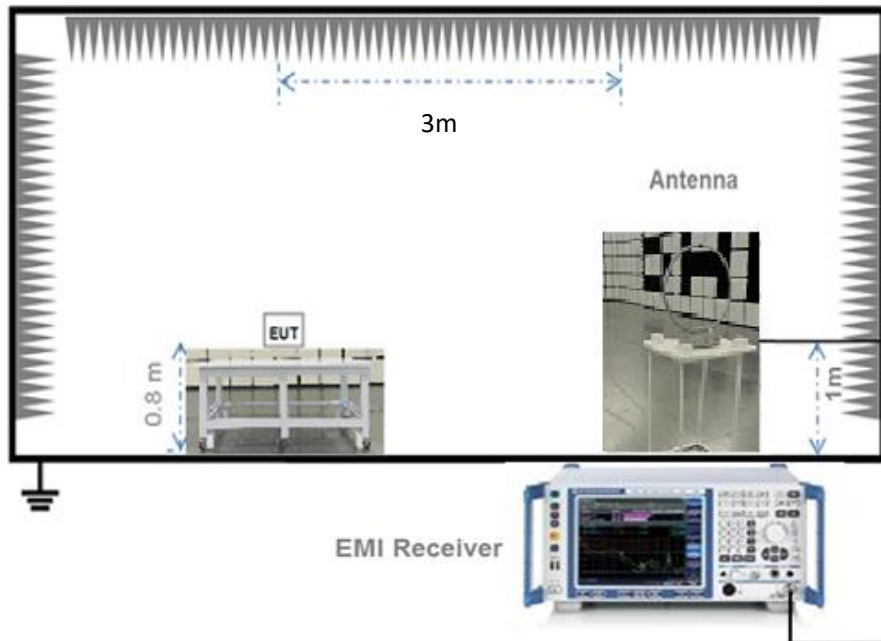
### 4.2 Test Equipment List

| Description                            | Manufacturer                  | Model                 | Serial No.  | Cal. Date  | Cal. Due   |
|--|-------------------------------|-----------------------|-------------|------------|------------|
| EMI Receiver                           | ROHDE&SCHWARZ                 | ESRP                  | 101036      | 2022.09.09 | 2023.09.08 |
| Amplifier<br>(30-1GHz)                 | COM-MV                        | ZT30-<br>1000M        | B2018054558 | 2022.09.09 | 2023.09.08 |
| Test Antenna-<br>Loop(9 kHz-30<br>MHz) | SCHWARZBECK                   | FMZB<br>1519          | 1519-037    | 2021.04.16 | 2024.04.15 |
| Test Antenna-<br>Bi-Log                | SCHWARZBECK                   | VULB 9168             | 9168-01162  | 2022.08.12 | 2023.08.11 |
| Anechoic<br>Chamber                    | EMC Electronic Co.,<br>Ltd    | 20.10*11.6<br>0*7.35m | 130         | 2021.08.15 | 2024.08.14 |
| EMI Receiver                           | KEYSIGHT                      | N9010B                | MY57110309  | 2022.09.09 | 2023.09.08 |
| LISN                                   | SCHWARZBECK                   | NSLK 8127             | 8127-687    | 2022.06.01 | 2023.05.31 |
| Shielded Room                          | YiHeng Electronic<br>Co., Ltd | 3.5m*3.1m<br>*2.8m    | 112         | 2022.02.19 | 2025.02.18 |
| Test Software                          | BALUN                         | BL410_E               | V19.918     | --         | --         |



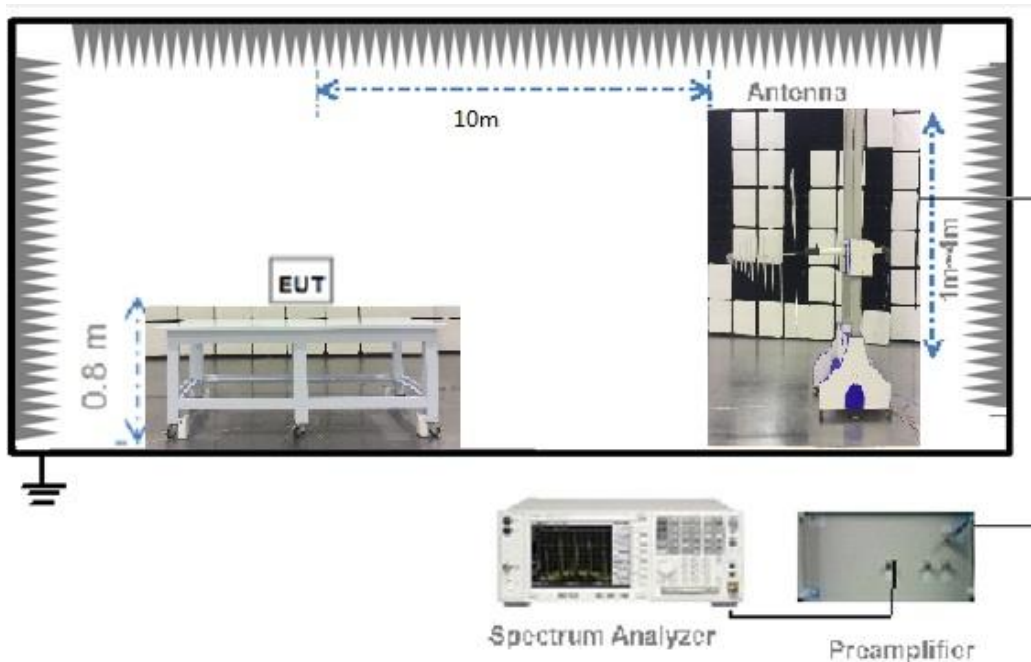
### 4.3 Test Setups

#### Test Setup 1



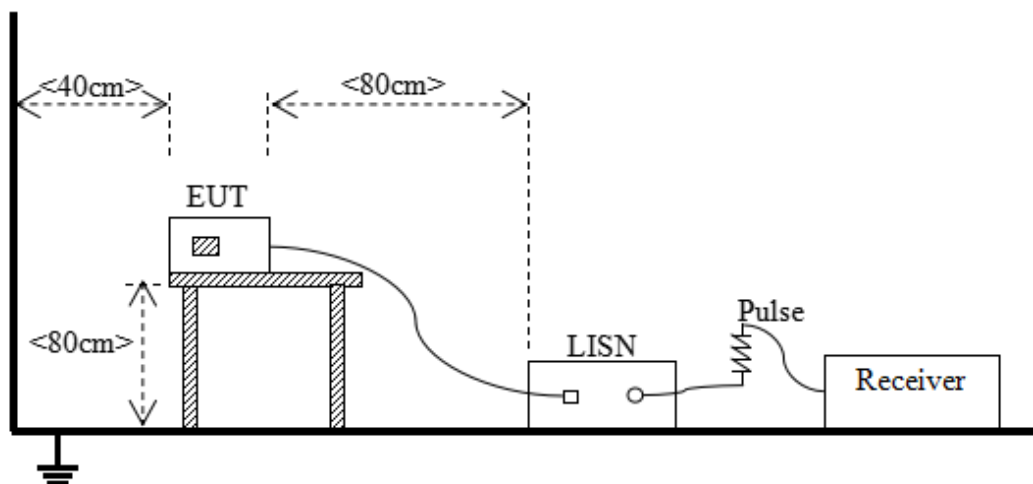
For Radiated Emission Test (Below 30 MHz)

#### Test Setup 2



(For Radiated Emission Test (30 MHz-1 GHz))

Test Setup 3



(For Conducted Emission, AC Ports Test)

## 5 TEST ITEMS

### 5.1 Emission Tests

#### 5.1.1 Radiated Emission

##### 5.1.1.1 Limit

| Frequency (MHz) | Field Strength ( $\mu\text{V}/\text{m}$ ) | Measurement Distance (m) |
|-----------------|---|--------------------------|
| 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                        |

#### NOTE:

- 1) Field Strength ( $\text{dB}\mu\text{V}/\text{m}$ ) =  $20 \cdot \log$  [Field Strength ( $\mu\text{V}/\text{m}$ )].
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) For above 1000 MHz, limit field strength of harmonics:  $54 \text{ dB}\mu\text{V}/\text{m}@3 \text{ m}$  (AV) and  $74 \text{ dB}\mu\text{V}/\text{m}@3 \text{ m}$  (PK)
- 4) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). For example, at the frequency 9 kHz, limit @10m =  $20 \cdot \log(2400/f) + 40 \log(d_{\text{limit}}/d_{\text{measure}})$  where limit = 300m,  $d_{\text{measure}}=10\text{m}$ . limit @10m =  $20 \cdot \log(2400/9) + 40 \log(300/10) = 107.5 \text{ (dB}\mu\text{V}/\text{m)}$ .
- 5) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided, When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements). For example, at the frequency 30 MHz, limit @10m =  $20 \cdot \log(100) + 20 \log(d_{\text{limit}}/d_{\text{measure}})$  where limit = 3m,  $d_{\text{measure}}=10\text{m}$ . limit @10m =  $20 \cdot \log(100) + 20 \log(3/10) = 29.5 \text{ (dB}\mu\text{V}/\text{m)}$ .

##### 5.1.1.2 Test Setup

Refer to 4.3 section (test setup 1 to test setup 2) for radiated emission test, the photo of test setup please refer to ANNEX B.

##### 5.1.1.3 Test Procedure

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

#### 5.1.1.4 Test Result

Please refer to ANNEX A.1.

#### NOTE:

1. Results (dB $\mu$ V/m) = Reading (dB $\mu$ V/m) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)

3. Over limit = Results – Limit.

## 5.1.2 Conducted Emission

### 5.1.2.1 Test Limit

| Frequency range<br>(MHz) | Conducted Limit (dB $\mu$ V) |          |
|--------------------------|------------------------------|----------|
|                          | Quasi-peak                   | Average  |
| 0.15 - 0.50              | 66 to 56                     | 56 to 46 |
| 0.50 - 5                 | 56                           | 46       |
| 5 - 30                   | 60                           | 50       |

NOTE:

- 1) The limit is applicable to Class B ITE.
- 2) The lower limit shall apply at the band edges.
- 3) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.

### 5.1.2.2 Test Setup

Refer to 4.3 section test (test setup 3) for conducted emission, the photo of test setup please refer to ANNEX B.

### 5.1.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides 50  $\Omega$ /50  $\mu$ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

### 5.1.2.4 Test Result

Please refer to ANNEX A.2.

NOTE:

1. Results (dB $\mu$ V) = Reading (dB $\mu$ V) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss
3. Over limit = Results – Limit.

### 5.1.3 20 dB Bandwidth

#### 5.1.3.1 Limit

FCC §15.215(c)

The 20 dB bandwidth is known as the 99% emission bandwidth, or 20 dB bandwidth ( $10 \cdot \log 1\% = 20$  dB) taking the total RF output power.

#### 5.1.3.2 Test Setup

Refer to 4.3 section test (test setup 1) for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

#### 5.1.3.3 Test Procedure

Use the following spectrum analyzer settings:

Span = between 2 and 5 times the OBW

RBW = 1%~5% of the OBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

#### 5.1.3.4 Test Result

Please refer to ANNEX A.3.

# ANNEX A TEST RESULTS

## A.1 Radiated Emission

Note <sup>1</sup>: The symbol of "--" in the table which means not application.

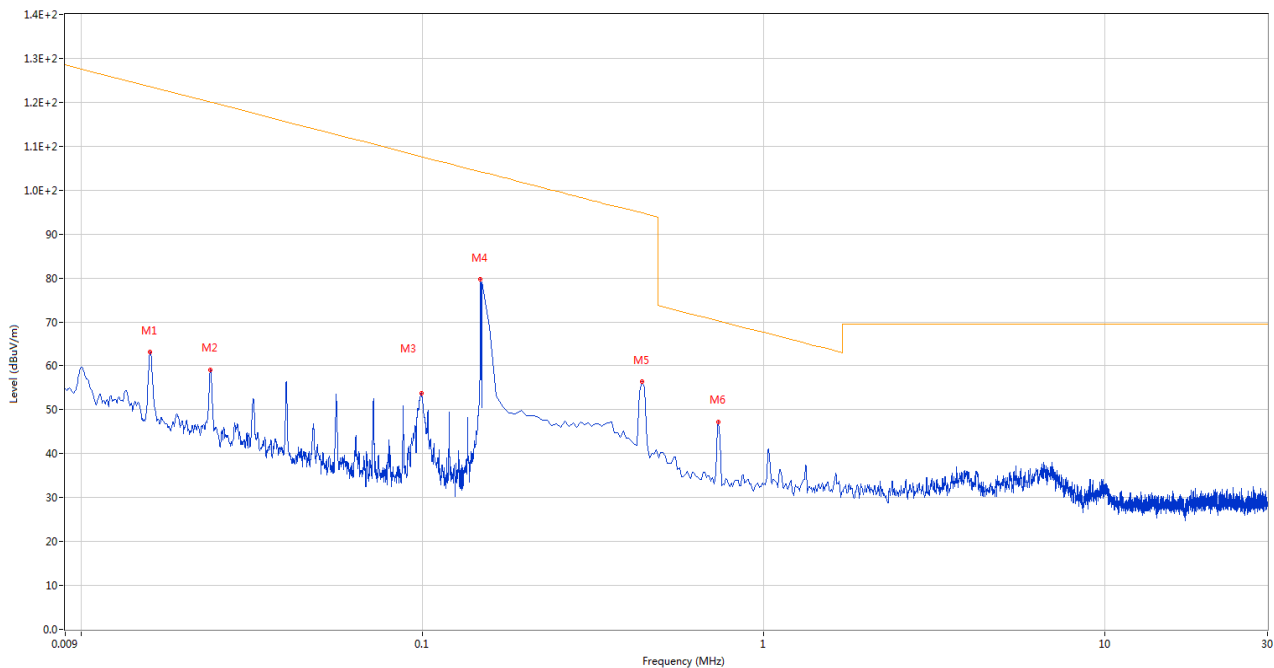
Note <sup>2</sup>: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note <sup>3</sup>: All Radiated Emissions tests were performed in X, Y, Z axis direction of EUT. And only the worst axis test condition was recorded in this test report.

### Qi Test Data and Plots

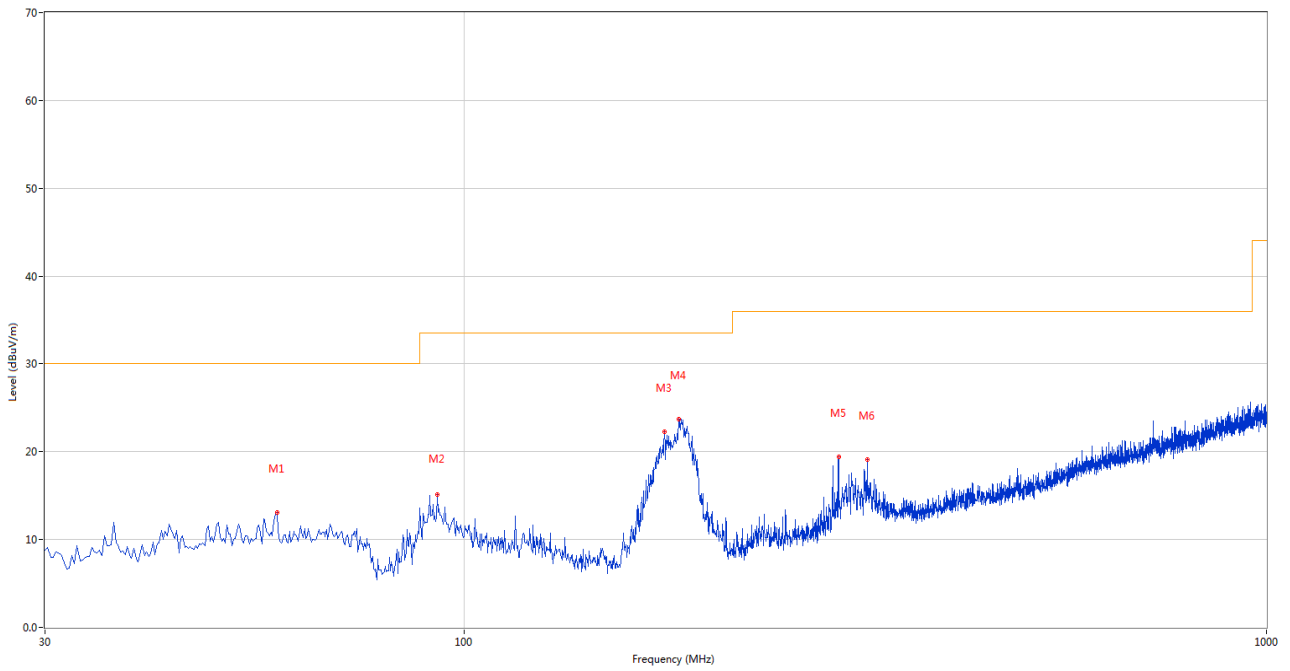
#### Mode1

#### A.1.1 Test Antenna LOOP, EUT X axis, 9 kHz –30 MHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 0.016           | 63.16            | 20.13       | 123.6          | 60.44       | Peak     | 335.00         | 100         | Vertical | Pass    |
| 2   | 0.024           | 59.15            | 20.23       | 120.0          | 60.85       | Peak     | 360.00         | 100         | Vertical | Pass    |
| 3   | 0.099           | 53.84            | 20.17       | 107.7          | 53.86       | Peak     | 358.00         | 100         | Vertical | Pass    |
| 4   | 0.148           | 79.63            | 20.15       | 104.2          | 24.57       | Peak     | 77.00          | 100         | Vertical | N/A     |
| 5   | 0.441           | 56.32            | 20.21       | 94.7           | 38.38       | Peak     | 209.00         | 100         | Vertical | Pass    |
| 6   | 0.740           | 47.22            | 20.42       | 70.2           | 22.98       | Peak     | 181.00         | 100         | Vertical | Pass    |

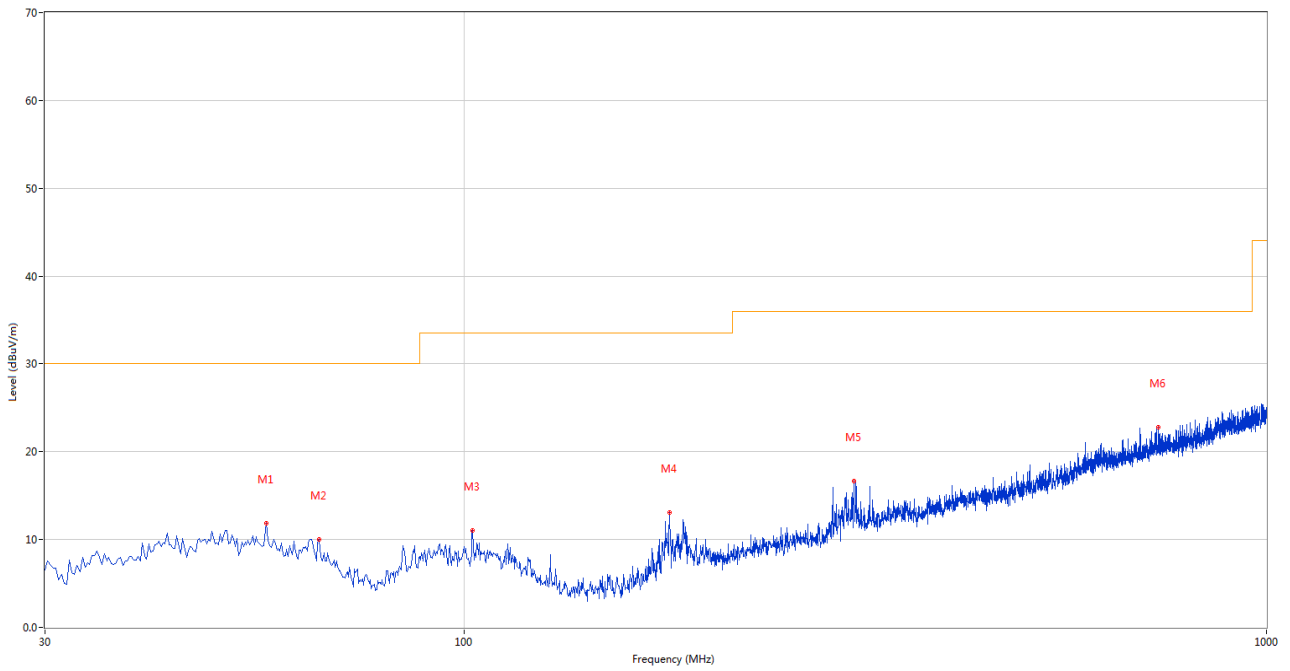
A.1.2 Test Antenna Vertical, EUT X axis, 30 MHz – 1 GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 58.365          | 13.10            | -27.44      | 30.0           | 16.90       | Peak     | 216.00         | 100         | Vertical | Pass    |
| 2   | 92.549          | 15.08            | -29.14      | 33.5           | 18.42       | Peak     | 219.00         | 100         | Vertical | Pass    |
| 3   | 177.646         | 22.28            | -29.87      | 33.5           | 11.22       | Peak     | 229.00         | 100         | Vertical | Pass    |
| 4   | 185.161         | 23.74            | -29.24      | 33.5           | 9.76        | Peak     | 204.00         | 100         | Vertical | Pass    |
| 5   | 292.804         | 19.38            | -25.31      | 36.0           | 16.62       | Peak     | 310.00         | 100         | Vertical | Pass    |
| 6   | 317.776         | 19.08            | -24.79      | 36.0           | 16.92       | Peak     | 263.00         | 100         | Vertical | Pass    |



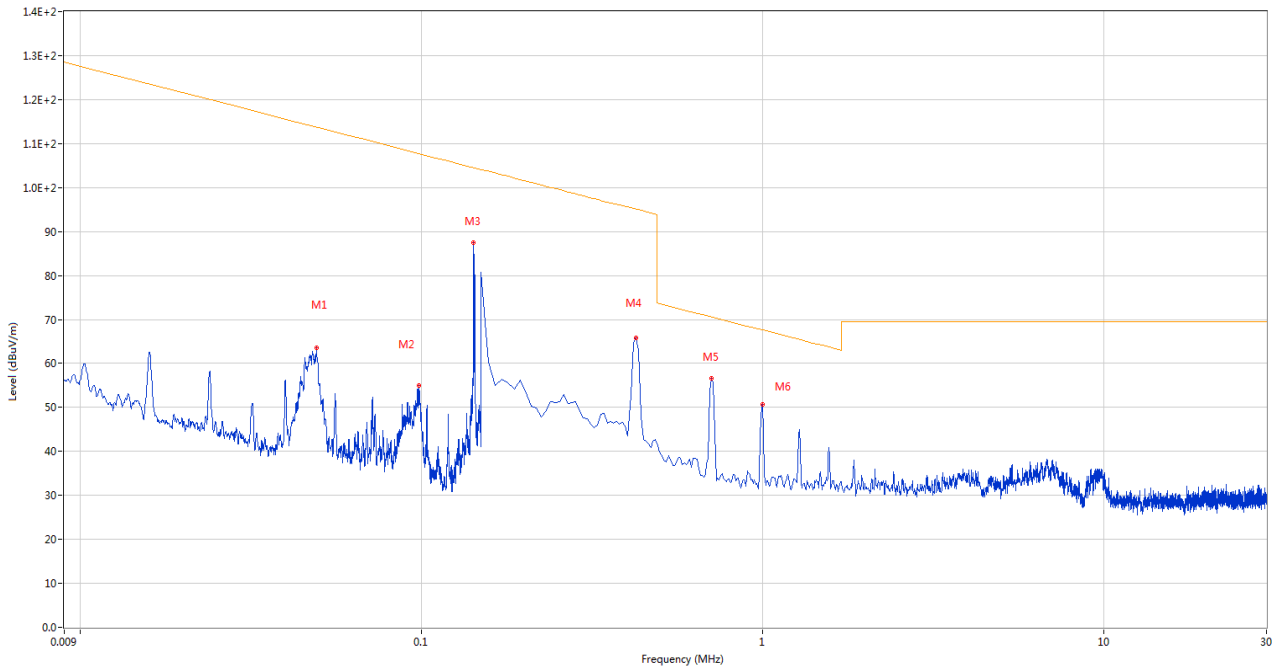
A.1.3 Test Antenna Horizontal, EUT X axis, 30 MHz – 1 GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 56.668          | 11.88            | -26.99      | 30.0           | 18.12       | Peak     | 356.00         | 100         | Horizontal | Pass    |
| 2   | 65.881          | 10.06            | -28.44      | 30.0           | 19.94       | Peak     | 331.00         | 100         | Horizontal | Pass    |
| 3   | 102.489         | 11.05            | -28.03      | 33.5           | 22.45       | Peak     | 62.00          | 200         | Horizontal | Pass    |
| 4   | 180.070         | 13.07            | -29.87      | 33.5           | 20.43       | Peak     | 273.00         | 200         | Horizontal | Pass    |
| 5   | 305.896         | 16.71            | -24.72      | 36.0           | 19.29       | Peak     | 341.00         | 200         | Horizontal | Pass    |
| 6   | 733.802         | 22.79            | -15.41      | 36.0           | 13.21       | Peak     | 189.00         | 100         | Horizontal | Pass    |

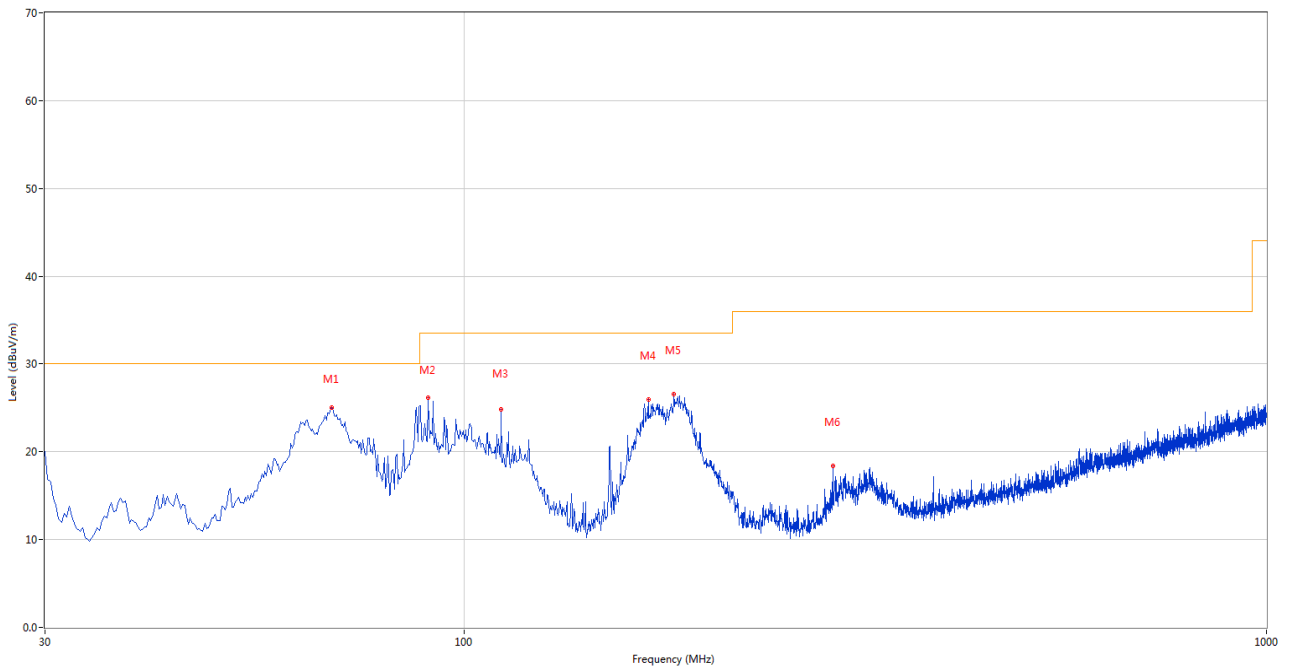
Mode2

A.1.4 Test Antenna LOOP, EUT X axis, 9 kHz –30 MHz



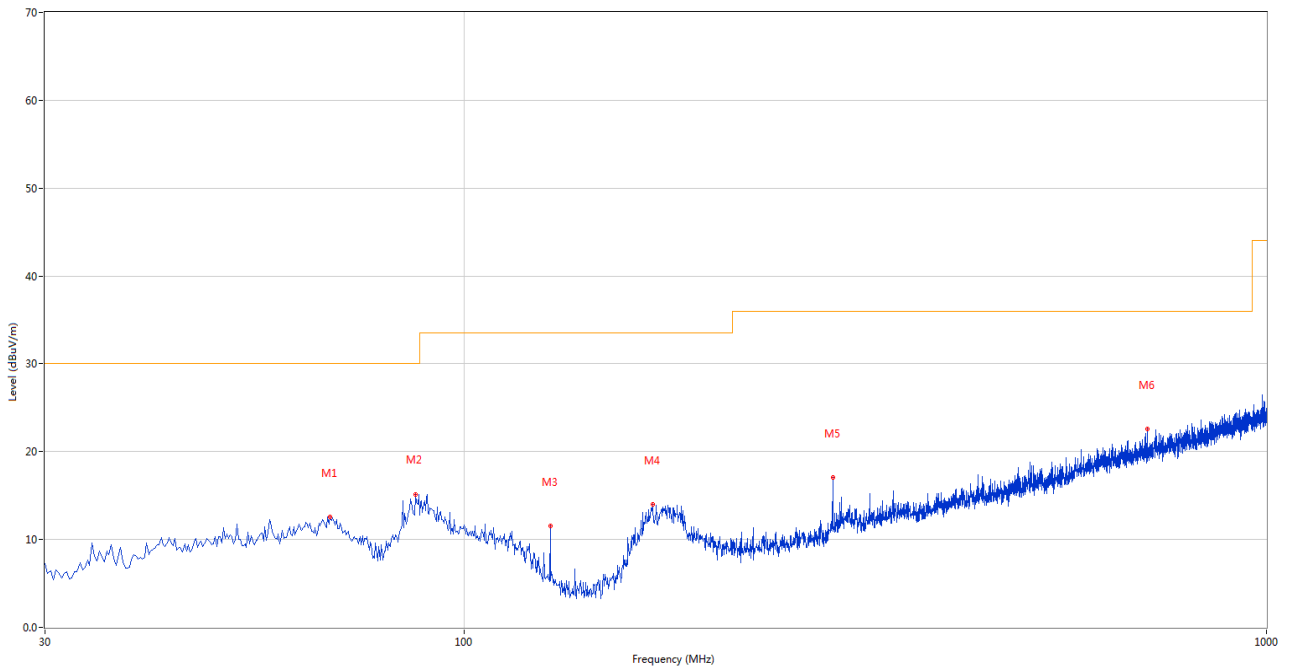
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 0.049           | 63.56            | 20.24       | 113.7          | 50.14       | Peak     | 356.00         | 100         | Vertical | Pass    |
| 2   | 0.099           | 54.88            | 20.16       | 107.7          | 52.82       | Peak     | 160.00         | 100         | Vertical | Pass    |
| 3   | 0.143           | 87.41            | 20.14       | 104.5          | 17.09       | Peak     | 110.00         | 100         | Vertical | N/A     |
| 4   | 0.426           | 65.71            | 20.20       | 95.0           | 29.29       | Peak     | 99.00          | 100         | Vertical | Pass    |
| 5   | 0.710           | 56.58            | 20.41       | 70.6           | 14.02       | Peak     | 99.00          | 100         | Vertical | Pass    |
| 6   | 1.001           | 50.69            | 20.55       | 67.6           | 16.91       | Peak     | 104.00         | 100         | Vertical | Pass    |

A.1.5 Test Antenna Vertical, EUT X axis, 30 MHz – 1 GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 68.305          | 25.03            | -29.40      | 30.0           | 4.97        | Peak     | 145.00         | 100         | Vertical | Pass    |
| 2   | 90.125          | 26.14            | -29.55      | 33.5           | 7.36        | Peak     | 257.00         | 100         | Vertical | Pass    |
| 3   | 111.217         | 24.82            | -28.34      | 33.5           | 8.68        | Peak     | 151.00         | 100         | Vertical | Pass    |
| 4   | 169.645         | 25.92            | -30.29      | 33.5           | 7.58        | Peak     | 263.00         | 100         | Vertical | Pass    |
| 5   | 182.494         | 26.62            | -29.50      | 33.5           | 6.88        | Peak     | 269.00         | 100         | Vertical | Pass    |
| 6   | 287.956         | 18.36            | -25.19      | 36.0           | 17.64       | Peak     | 204.00         | 100         | Vertical | Pass    |

A.1.6 Test Antenna Horizontal, EUT X axis, 30 MHz – 1 GHz



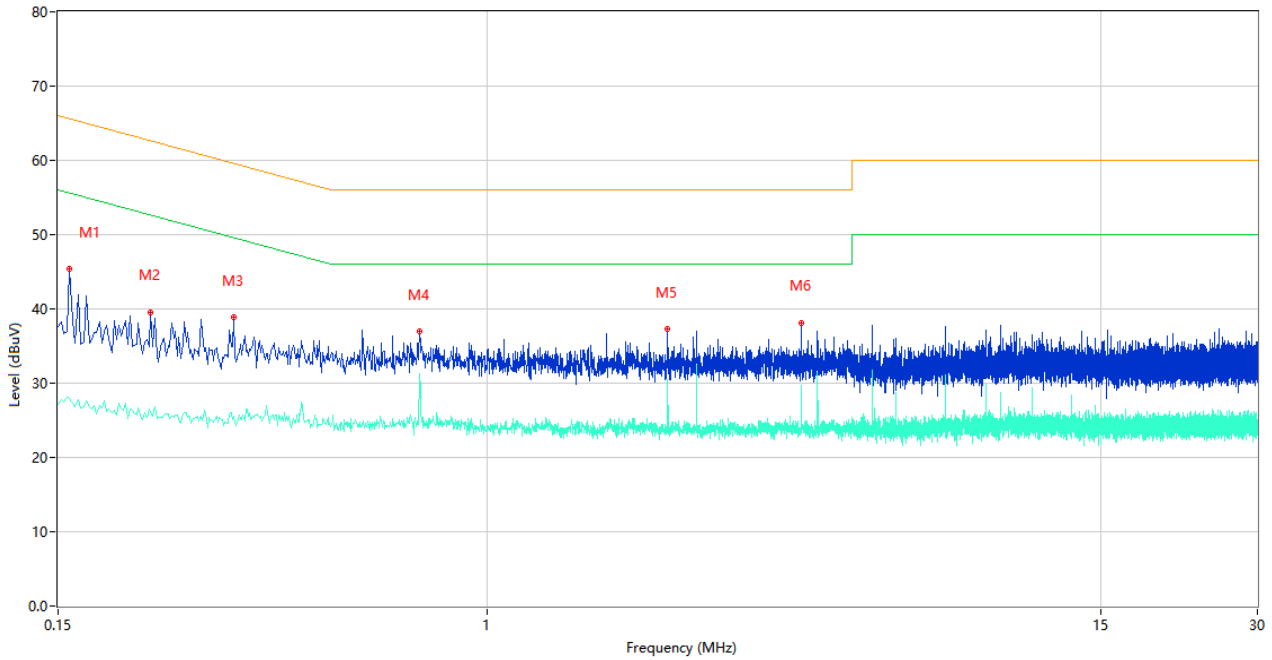
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 68.063          | 12.60            | -29.30      | 30.0           | 17.40       | Peak     | 32.00          | 200         | Horizontal | Pass    |
| 2   | 86.973          | 15.15            | -30.62      | 30.0           | 14.85       | Peak     | 135.00         | 200         | Horizontal | Pass    |
| 3   | 127.946         | 11.57            | -31.06      | 33.5           | 21.93       | Peak     | 257.00         | 100         | Horizontal | Pass    |
| 4   | 171.585         | 13.96            | -30.16      | 33.5           | 19.54       | Peak     | 290.00         | 200         | Horizontal | Pass    |
| 5   | 287.956         | 17.07            | -25.19      | 36.0           | 18.93       | Peak     | 234.00         | 200         | Horizontal | Pass    |
| 6   | 709.800         | 22.61            | -16.34      | 36.0           | 13.39       | Peak     | 53.00          | 200         | Horizontal | Pass    |

## A.2 Conducted Emission

### Qi Test Data and Plots

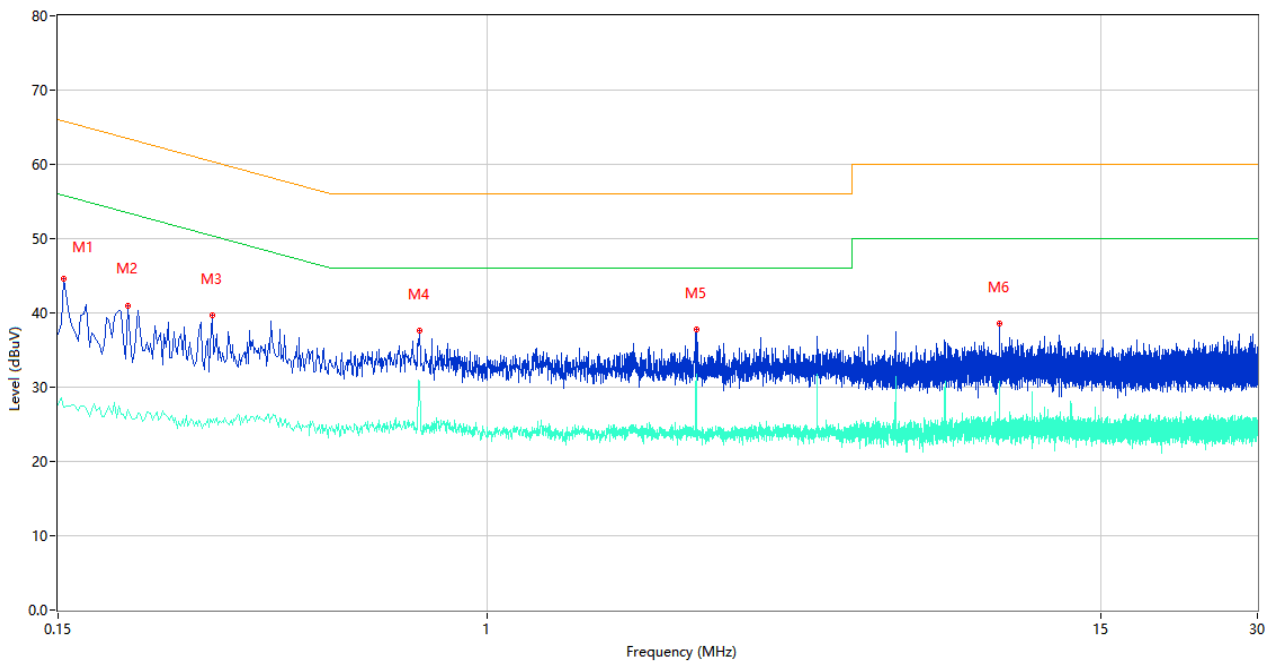
#### Mode1

##### A.2.1 L Phase



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Margin (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-------------|----------|------|---------|
| 1   | 0.158           | 45.38          | 10.08       | 65.57        | 20.19       | Peak     | L    | Pass    |
| 1** | 0.158           | 28.00          | 10.08       | 55.57        | 27.57       | AV       | L    | Pass    |
| 2   | 0.226           | 39.54          | 10.03       | 62.60        | 23.06       | Peak     | L    | Pass    |
| 2** | 0.226           | 26.19          | 10.03       | 52.60        | 26.41       | AV       | L    | Pass    |
| 3   | 0.326           | 38.82          | 10.50       | 59.55        | 20.73       | Peak     | L    | Pass    |
| 3** | 0.326           | 25.54          | 10.50       | 49.55        | 24.01       | AV       | L    | Pass    |
| 4   | 0.742           | 36.94          | 10.40       | 56.00        | 19.06       | Peak     | L    | Pass    |
| 4** | 0.742           | 31.30          | 10.40       | 46.00        | 14.70       | AV       | L    | Pass    |
| 5   | 2.218           | 37.26          | 10.13       | 56.00        | 18.74       | Peak     | L    | Pass    |
| 5** | 2.218           | 30.49          | 10.13       | 46.00        | 15.51       | AV       | L    | Pass    |
| 6   | 3.994           | 38.12          | 9.99        | 56.00        | 17.88       | Peak     | L    | Pass    |
| 6** | 3.994           | 28.61          | 9.99        | 46.00        | 17.39       | AV       | L    | Pass    |

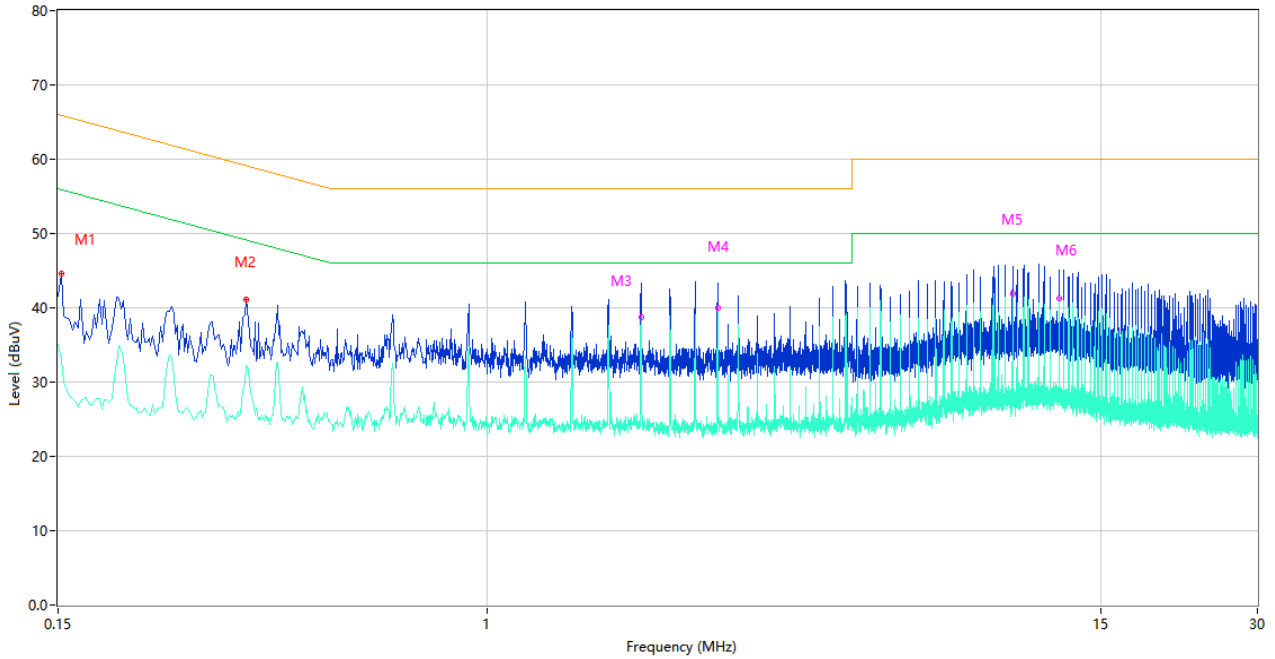
A.2.2 N Phase



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Margin (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-------------|----------|------|---------|
| 1   | 0.154           | 44.67          | 10.09       | 65.78        | 21.11       | Peak     | N    | Pass    |
| 1** | 0.154           | 27.36          | 10.09       | 55.78        | 28.42       | AV       | N    | Pass    |
| 2   | 0.204           | 41.01          | 10.05       | 63.45        | 22.44       | Peak     | N    | Pass    |
| 2** | 0.204           | 27.06          | 10.05       | 53.45        | 26.39       | AV       | N    | Pass    |
| 3   | 0.296           | 39.67          | 9.98        | 60.35        | 20.68       | Peak     | N    | Pass    |
| 3** | 0.296           | 25.22          | 9.98        | 50.35        | 25.13       | AV       | N    | Pass    |
| 4   | 0.742           | 37.55          | 10.40       | 56.00        | 18.45       | Peak     | N    | Pass    |
| 4** | 0.742           | 30.30          | 10.40       | 46.00        | 15.70       | AV       | N    | Pass    |
| 5   | 2.514           | 37.73          | 10.23       | 56.00        | 18.27       | Peak     | N    | Pass    |
| 5** | 2.514           | 31.74          | 10.23       | 46.00        | 14.26       | AV       | N    | Pass    |
| 6   | 9.618           | 38.56          | 10.09       | 60.00        | 21.44       | Peak     | N    | Pass    |
| 6** | 9.618           | 29.27          | 10.09       | 50.00        | 20.73       | AV       | N    | Pass    |

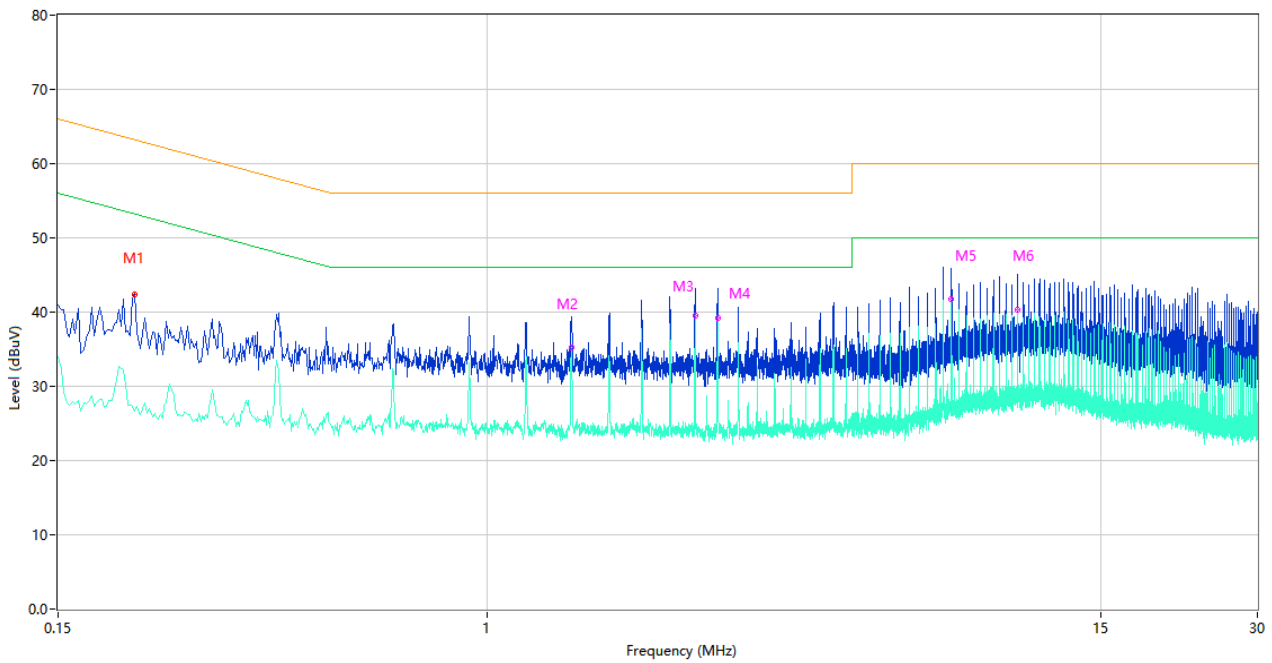
Mode2

A.2.3 L Phase



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Margin (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-------------|----------|------|---------|
| 1   | 0.152           | 44.60          | 10.09       | 65.89        | 21.29       | Peak     | L    | Pass    |
| 1** | 0.152           | 32.99          | 10.09       | 55.89        | 22.90       | AV       | L    | Pass    |
| 2   | 0.344           | 41.19          | 10.85       | 59.11        | 17.92       | Peak     | L    | Pass    |
| 2** | 0.344           | 32.22          | 10.85       | 49.11        | 16.89       | AV       | L    | Pass    |
| 3   | 1.970           | 43.29          | 10.28       | 56.00        | 12.71       | Peak     | L    | Pass    |
| 3** | 1.970           | 38.71          | 10.28       | 46.00        | 7.29        | AV       | L    | Pass    |
| 4   | 2.766           | 43.26          | 10.33       | 56.00        | 12.74       | Peak     | L    | Pass    |
| 4** | 2.766           | 39.95          | 10.33       | 46.00        | 6.05        | AV       | L    | Pass    |
| 5   | 10.174          | 44.50          | 10.32       | 60.00        | 15.50       | Peak     | L    | Pass    |
| 5** | 10.174          | 41.88          | 10.32       | 50.00        | 8.12        | AV       | L    | Pass    |
| 6   | 12.482          | 43.96          | 10.22       | 60.00        | 16.04       | Peak     | L    | Pass    |
| 6** | 12.482          | 41.26          | 10.22       | 50.00        | 8.74        | AV       | L    | Pass    |

A.2.4 N Phase



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Margin (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-------------|----------|------|---------|
| 1   | 0.210           | 42.34          | 10.05       | 63.21        | 20.87       | Peak     | N    | Pass    |
| 1** | 0.210           | 26.67          | 10.05       | 53.21        | 26.54       | AV       | N    | Pass    |
| 2   | 1.450           | 39.28          | 10.16       | 56.00        | 16.72       | Peak     | N    | Pass    |
| 2** | 1.450           | 35.24          | 10.16       | 46.00        | 10.76       | AV       | N    | Pass    |
| 3   | 2.502           | 43.17          | 10.24       | 56.00        | 12.83       | Peak     | N    | Pass    |
| 3** | 2.502           | 39.48          | 10.24       | 46.00        | 6.52        | AV       | N    | Pass    |
| 4   | 2.766           | 43.14          | 10.33       | 56.00        | 12.86       | Peak     | N    | Pass    |
| 4** | 2.766           | 39.19          | 10.33       | 46.00        | 6.81        | AV       | N    | Pass    |
| 5   | 7.744           | 45.29          | 10.36       | 60.00        | 14.71       | Peak     | N    | Pass    |
| 5** | 7.744           | 41.77          | 10.36       | 50.00        | 8.23        | AV       | N    | Pass    |
| 6   | 10.406          | 44.19          | 10.33       | 60.00        | 15.81       | Peak     | N    | Pass    |
| 6** | 10.406          | 40.30          | 10.33       | 50.00        | 9.70        | AV       | N    | Pass    |



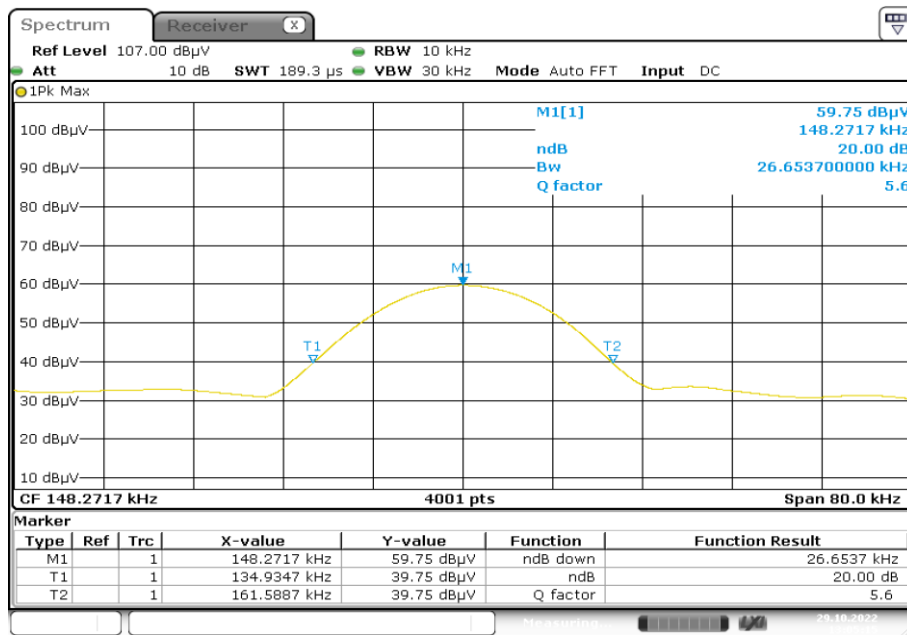
### A.3 20 dB Bandwidth

Note: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

#### Qi Test Data and Plots

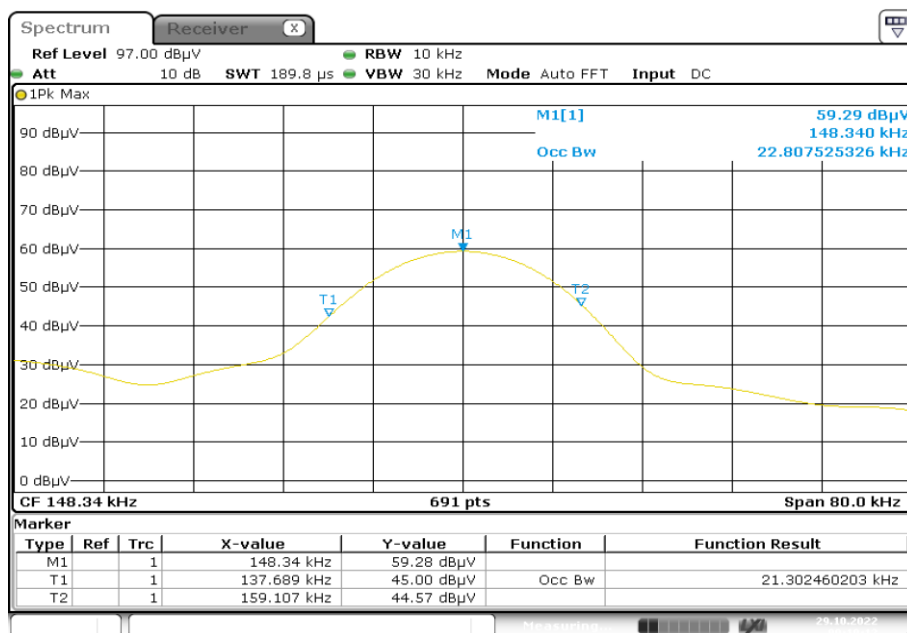
##### Mode1

##### Emission Bandwidth



Date: 29.OCT.2022 13:05:15

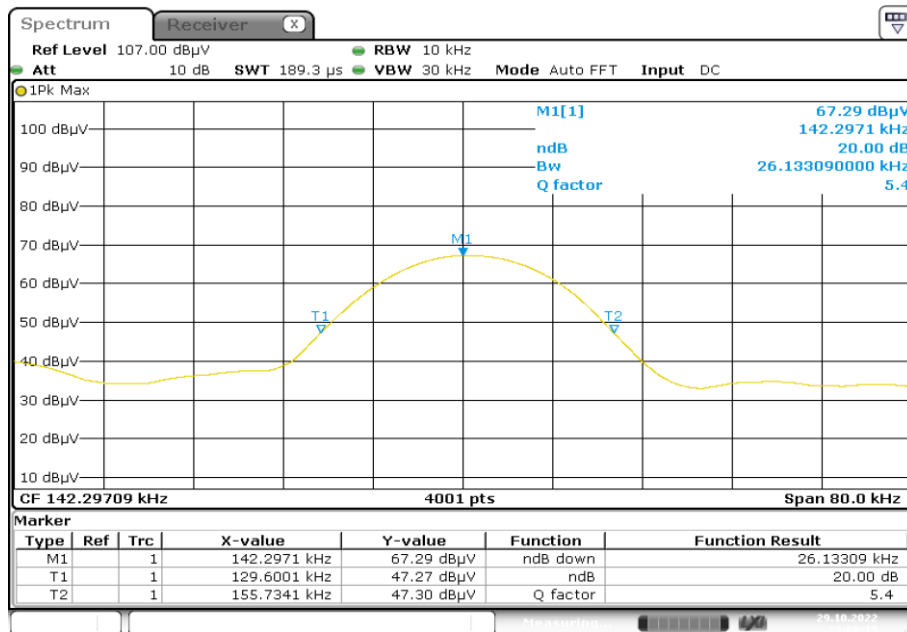
##### 99% Occupied Bandwidth



Date: 29.OCT.2022 09:19:13

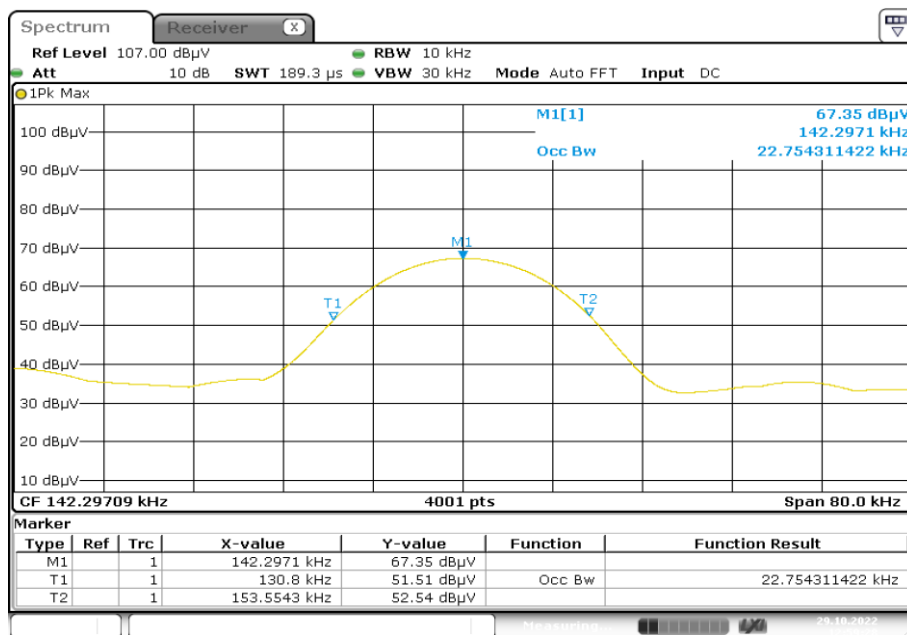
Mode2

Emission Bandwidth



Date: 29.OCT.2022 13:00:14

99% Occupied Bandwidth



Date: 29.OCT.2022 12:59:28

## **ANNEX B TEST SETUP PHOTOS**

Please refer the document “BL-SZ22A0654-AE-2.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ22A0654-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SZ22A0654-AI.PDF”.

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--END OF REPORT--