

# TEST REPORT

**Application No.:** GZCR2507001105HS  
**Applicant:** Anatomy Fitness Co LLC  
**Address of Applicant:** 7901 4<sup>th</sup> St N STE 300, ST Petersburg Florida 33702  
**Manufacturer:** Anatomy Fitness Co LLC  
**Address of Manufacturer:** 7901 4<sup>th</sup> St N STE 300, ST Petersburg Florida 33702  
**Product Name:** UPRIGHT BIKE / LED  
**Model No.:** AF-8204  
**Trade Mark:** ANATOMY X  
**Standard(s) :** 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2025-07-21  
**Date of Test:** 2025-08-06 to 2025-08-26  
**Date of Issue:** 2025-10-11

**Test Result:**

**Pass\***

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



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| Revision Record |                  |            |          |
|-----------------|------------------|------------|----------|
| Version         | Report No.       | Date       | Remark   |
| 01              | GZCR250700110502 | 2025-10-11 | Original |
|                 |                  |            |          |
|                 |                  |            |          |

|                          |  |                             |  |
|--------------------------|--|-----------------------------|--|
| Authorized for issue by: |  |                             |  |
|                          |  | <i>Damon Guan</i>           |  |
|                          |  | Damon Guan/Project Engineer |  |
| Approved By              |  | <i>Vico Cui</i>             |  |
|                          |  | Vico Cui/Reviewer           |  |



## 2 Test Summary

| Radio Spectrum Technical Requirement |                           |        |                                  |        |
|--------------------------------------|---------------------------|--------|----------------------------------|--------|
| Item                                 | Standard                  | Method | Requirement                      | Result |
| Antenna Requirement                  | 47 CFR Part 15, Subpart C | N/A    | 47 CFR Part 15, Subpart C 15.203 | Pass   |

| Radio Spectrum Matter Part                                |                           |                                   |                                           |        |
|-----------------------------------------------------------|---------------------------|-----------------------------------|-------------------------------------------|--------|
| Item                                                      | Standard                  | Method                            | Requirement                               | Result |
| 20dB Bandwidth                                            | 47 CFR Part 15, Subpart C | ANSI C63.10 (2020) Section 6.9.2  | 47 CFR Part 15, Subpart C 15.215          | Pass   |
| Conducted Emissions at AC Mains Power Port (150kHz-30MHz) |                           | ANSI C63.10 (2020) Section 6.2    | 47 CFR Part 15, Subpart C 15.207          | Pass   |
| Restricted Bands                                          |                           | ANSI C63.10 (2020) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.205          | Pass   |
| Radiated Emissions (9kHz-30MHz)                           |                           | ANSI C63.10 (2020) Section 6.4    | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Radiated Emissions (30MHz-1GHz)                           |                           | ANSI C63.10 (2020) Section 6.5    | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |

**Note:**

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply: Power supplied by AC/DC adapter or self generated electricity.  
AC/DC adapter: Model:GQ24-120200-AG  
Input: AC 100-240V 50/60Hz 1.0A Max  
Output: DC 12.0V 2.0A 24.0W  
Cable(s): About 1.6m x 2 wires unscreened DC output cable for AC/DC adapter.  
Test Voltage: AC 120 V, 60 Hz  
Operation frequency: 115.405kHz to 170.738kHz  
Modulation type: Load modulation  
Antenna type: Loop Antenna

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### 4.2 Description of Support Units

| Description          | Manufacturer | Model No.      | Serial No.   |
|----------------------|--------------|----------------|--------------|
| Mobile Phone         | APPLE        | iPhone 12 mini | F71DP3NG0GQY |
| Wireless charge load | YBZ          | MPP25W         | /            |

### 4.3 Measurement Uncertainty

| Test Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Measurement Uncertainty                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20dB Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | $\pm 0.274\%$                                                                                                                                             |
| Conducted Emissions at AC Mains Power Port (150kHz-30MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | $\pm 3.22\text{dB}$                                                                                                                                       |
| Restricted Bands                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | $\pm 5.14\text{dB}$ (3m); $\pm 4.90\text{dB}$ (10m); $\pm 4.88\text{dB}$ (1GHz-6GHz); $\pm 5.06\text{dB}$ (6GHz-18GHz); $\pm 5.30\text{dB}$ (18GHz-40GHz) |
| Radiated Emissions (9kHz-30MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | $\pm 3.12\text{dB}$                                                                                                                                       |
| Radiated Emissions (30MHz-1GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | $\pm 5.14\text{dB}$ (3m); $\pm 4.90\text{dB}$ (10m)                                                                                                       |
| <p>Remark:</p> <p>The <math>U_{\text{lab}}</math> (lab Uncertainty) is less than <math>U_{\text{CISPR}}</math> (CISPR Uncertainty) or <math>U_{\text{ETSI}}</math> (ETSI Uncertainty).</p> <p>Emission decision rule:</p> <ul style="list-style-type: none"> <li>– Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.</li> <li>– Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.</li> </ul> |                                                                                                                                                           |

## 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,  
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.

## 4.5 Test Facility

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

| 20dB Bandwidth                       |                      |           |               |            |              |
|--------------------------------------|----------------------|-----------|---------------|------------|--------------|
| Equipment                            | Manufacturer         | Model No. | Inventory No. | Cal Date   | Cal Due Date |
| MI CABLE                             | SGS-EMC              | 0.8M      | EMC2137       | 2023-11-02 | 2025-11-01   |
| MXA Signal Analyzer<br>(10Hz-8.4GHz) | Agilent Technologies | N9020A    | SEM004-10     | 2024-12-03 | 2025-12-02   |

| Conducted Emissions at AC Mains Power Port (150kHz-30MHz) |                   |                   |               |            |              |
|-----------------------------------------------------------|-------------------|-------------------|---------------|------------|--------------|
| Equipment                                                 | Manufacturer      | Model No.         | Inventory No. | Cal Date   | Cal Due Date |
| Coaxial Cable                                             | HangTianXing      | 2m                | EMC0107       | 2025-08-12 | 2026-08-11   |
| Shielding Room                                            | ChangZhou ZhongYu | 8m x 3m x<br>3.8m | EMC0306       | 2025-08-14 | 2028-08-13   |
| Two-Line V-Network-GZ                                     | Rohde & Schwarz   | ENV216            | EMC2135       | 2025-08-13 | 2026-08-12   |
| EMI Test Receiver<br>(9kHz-3.6GHz)                        | Rohde & Schwarz   | ESR3              | EMC2221       | 2024-12-04 | 2025-12-03   |
| Test Software E3r                                         | Audix             | Ver.6.191211      | GZE100-77     | N/A        | N/A          |

| Restricted Bands                     |                      |           |               |            |              |
|--------------------------------------|----------------------|-----------|---------------|------------|--------------|
| Equipment                            | Manufacturer         | Model No. | Inventory No. | Cal Date   | Cal Due Date |
| MI CABLE                             | SGS-EMC              | 0.8M      | EMC2137       | 2023-11-02 | 2025-11-01   |
| MXA Signal Analyzer<br>(10Hz-8.4GHz) | Agilent Technologies | N9020A    | SEM004-10     | 2024-12-03 | 2025-12-02   |

| Radiated Emissions (9kHz-30MHz)  |                       |               |               |            |              |
|----------------------------------|-----------------------|---------------|---------------|------------|--------------|
| Equipment                        | Manufacturer          | Model No.     | Inventory No. | Cal Date   | Cal Due Date |
| 10m Semi-Anechoic Chamber        | ETS                   | N/A           | EMC0530       | 2025-08-13 | 2028-08-12   |
| Coaxial cable                    | Mirco-COAX<br>UTIFLEX | 311A          | EMC0540       | 2024-08-19 | 2026-08-18   |
| Amplifier (9kHz-1.3GHz)          | HP                    | 8447F         | EMC2065       | 2024-12-04 | 2025-12-03   |
| Active Loop Antenna-<br>RED      | ETS-Lindgren          | 6502          | EMC2190       | 2024-04-16 | 2026-04-15   |
| EMI Test Receiver<br>(9kHz-7GHz) | Rohde & Schwarz       | ESR7          | EMC2220       | 2024-12-04 | 2025-12-03   |
| Test Software E3                 | Audix                 | Ver.6.120110a | GZE100-61     | N/A        | N/A          |



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| Radiated Emissions (30MHz-1GHz)          |                                 |               |               |            |              |
|------------------------------------------|---------------------------------|---------------|---------------|------------|--------------|
| Equipment                                | Manufacturer                    | Model No.     | Inventory No. | Cal Date   | Cal Due Date |
| 10m Semi-Anechoic Chamber                | ETS                             | N/A           | EMC0530       | 2025-08-13 | 2028-08-12   |
| Coaxial cable                            | Mirco-COAX<br>UTIFLEX           | 311A          | EMC0540       | 2024-08-19 | 2026-08-18   |
| Amplifier (9kHz-1.3GHz)                  | HP                              | 8447F         | EMC2065       | 2024-12-04 | 2025-12-03   |
| EMI Test Receiver<br>(9kHz-7GHz)         | Rohde & Schwarz                 | ESR7          | EMC2220       | 2024-12-04 | 2025-12-03   |
| Test Software E3                         | Audix                           | Ver.6.120110a | GZE100-61     | N/A        | N/A          |
| Trilog Broadband<br>Antenna (25MHz-2GHz) | Schwarzbeck Mess-<br>Elektronik | VULB 9168     | EMC2174       | 2025-04-21 | 2027-04-20   |

| General used equipment |              |          |              |            |              |
|------------------------|--------------|----------|--------------|------------|--------------|
| Equipment              | Manufacturer | Model No | Inventory No | Cal Date   | Cal Due Date |
| DMM                    | Fluke        | 73       | EMC0006      | 2025-06-03 | 2026-06-02   |



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Refer to internal photos

## 7 Radio Spectrum Matter Test Results

### 7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215  
 Test Method: ANSI C63.10 (2020) Section 6.9.2  
 Limit: For report reference only

#### 7.1.1 E.U.T. Operation

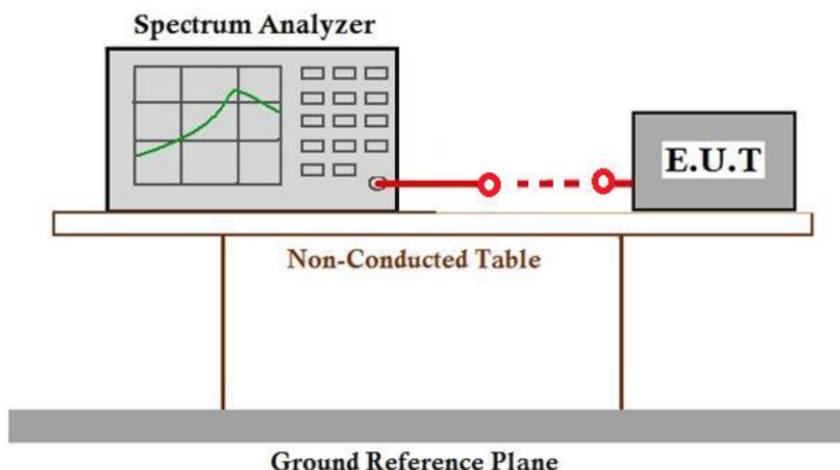
Operating Environment:

Temperature: 19.7 °C Humidity: 64.5 % RH Atmospheric Pressure: 1006 mbar

#### 7.1.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                            |
|--------------------------|--------------|----------------------------------------------------------------------------------------|
| Pre-scan                 | 01           | Charge mode_Keep the EUT charging(5W), power supplied by AC/DC adapter.                |
| Pre-scan                 | 02           | Charge mode_Keep the EUT charging(7.5W), power supplied by AC/DC adapter.              |
| Final test               | 03           | Charge mode_Keep the EUT charging(10W), power supplied by AC/DC adapter.               |
| Pre-scan                 | 07           | Charge mode_Keep the EUT charging(5W), power supplied by self generated electricity.   |
| Pre-scan                 | 08           | Charge mode_Keep the EUT charging(7.5W), power supplied by self generated electricity. |
| Pre-scan                 | 09           | Charge mode_Keep the EUT charging(10W), power supplied by self generated electricity.  |

#### 7.1.3 Test Setup Diagram





## 7.2 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2020) Section 6.2

Limit:

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

\*Decreases with the logarithm of the frequency.

### 7.2.1 E.U.T. Operation

Operating Environment:

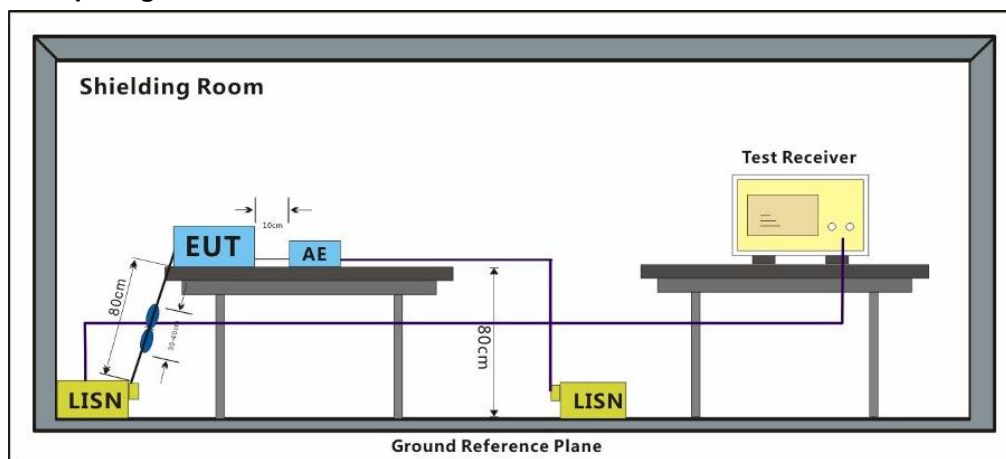
Temperature: 21.3 °C Humidity: 53.3 % RH Atmospheric Pressure: 1008 mbar

### 7.2.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                            |
|--------------------------|--------------|----------------------------------------------------------------------------------------|
| Pre-scan                 | 01           | Charge mode_Keep the EUT charging(5W), power supplied by AC/DC adapter.                |
| Pre-scan                 | 02           | Charge mode_Keep the EUT charging(7.5W), power supplied by AC/DC adapter.              |
| Final test               | 03           | Charge mode_Keep the EUT charging(10W), power supplied by AC/DC adapter.               |
| Pre-scan                 | 07           | Charge mode_Keep the EUT charging(5W), power supplied by self generated electricity.   |
| Pre-scan                 | 08           | Charge mode_Keep the EUT charging(7.5W), power supplied by self generated electricity. |
| Pre-scan                 | 09           | Charge mode_Keep the EUT charging(10W), power supplied by self generated electricity.  |



### 7.2.3 Test Setup Diagram

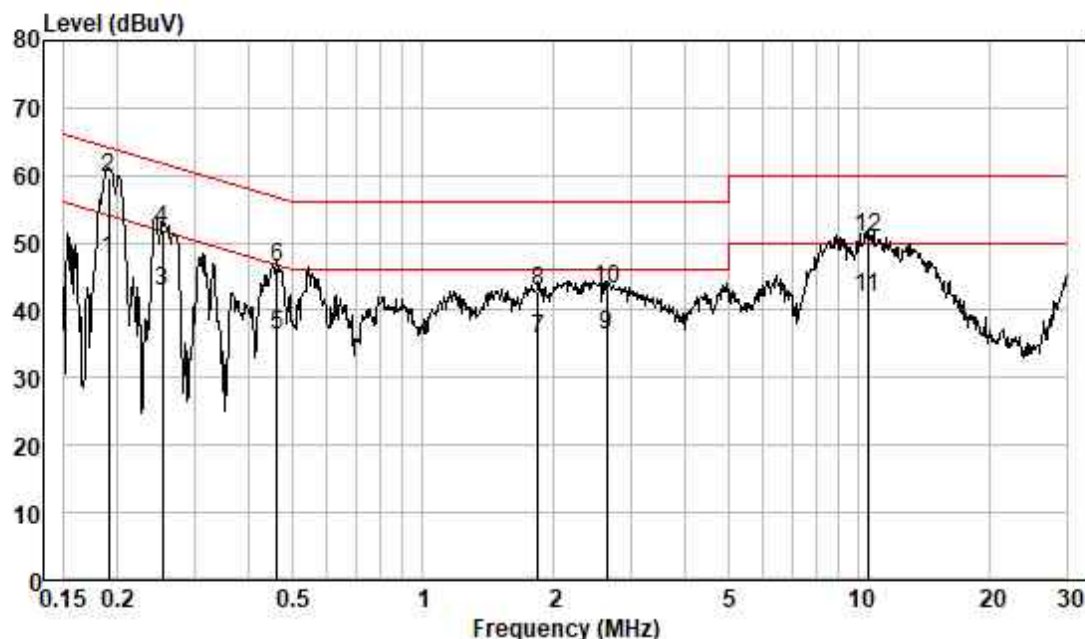


### 7.2.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor

Test Mode: 03; Line: Live line

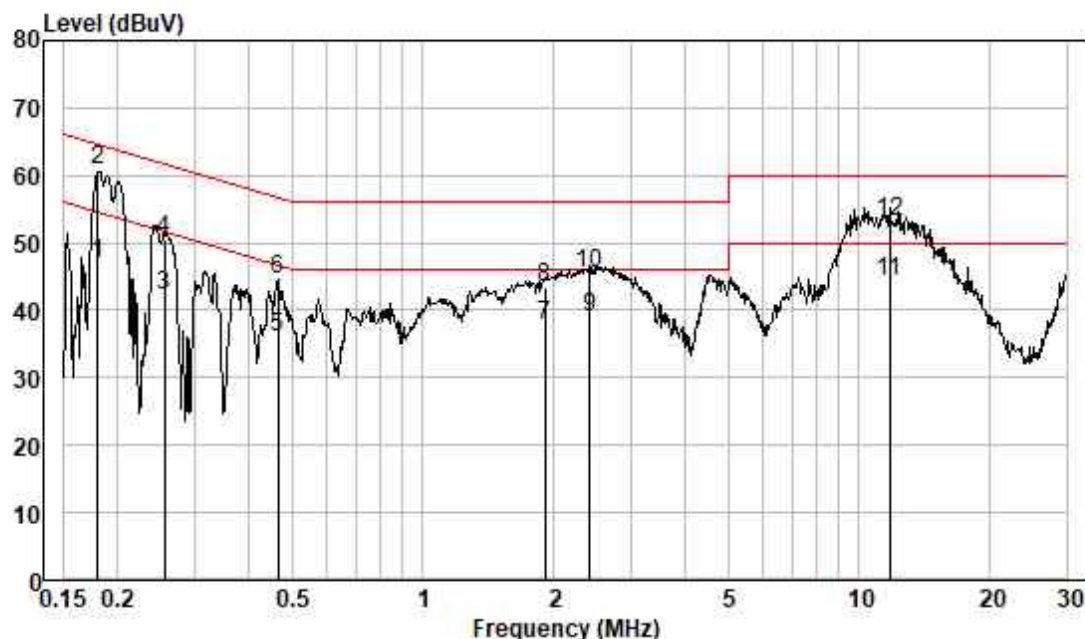


Pol :LINE  
Mode :Charging  
Model :  
Power :

|    | Frequency<br>MHz | Read<br>Level<br>dBuV | Cable<br>Loss<br>dB | LISN<br>Factor<br>dB | Measured<br>Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Remark  |
|----|------------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 1  | 0.190            | 37.81                 | 0.04                | 9.55                 | 47.40                     | 54.02                 | -6.62               | Average |
| 2  | 0.190            | 50.13                 | 0.04                | 9.55                 | 59.72                     | 64.02                 | -4.30               | QP      |
| 3  | 0.253            | 33.21                 | 0.04                | 9.60                 | 42.85                     | 51.64                 | -8.79               | Average |
| 4  | 0.253            | 42.38                 | 0.04                | 9.60                 | 52.02                     | 61.64                 | -9.62               | QP      |
| 5  | 0.464            | 26.83                 | 0.05                | 9.57                 | 36.45                     | 46.63                 | -10.18              | Average |
| 6  | 0.464            | 36.63                 | 0.05                | 9.57                 | 46.25                     | 56.63                 | -10.38              | QP      |
| 7  | 1.839            | 26.13                 | 0.12                | 9.61                 | 35.86                     | 46.00                 | -10.14              | Average |
| 8  | 1.839            | 33.21                 | 0.12                | 9.61                 | 42.94                     | 56.00                 | -13.06              | QP      |
| 9  | 2.636            | 26.57                 | 0.15                | 9.54                 | 36.26                     | 46.00                 | -9.74               | Average |
| 10 | 2.636            | 33.28                 | 0.15                | 9.54                 | 42.97                     | 56.00                 | -13.03              | QP      |
| 11 | 10.452           | 31.99                 | 0.26                | 9.72                 | 41.97                     | 50.00                 | -8.03               | Average |
| 12 | 10.452           | 40.69                 | 0.26                | 9.72                 | 50.67                     | 60.00                 | -9.33               | QP      |



Test Mode: 03; Line: Neutral Line



Pol : NEUTRAL  
Mode : Charging  
Model :  
Power :

|    | Frequency<br>MHz | Read<br>Level<br>dBuV | Cable<br>Loss<br>dB | LISN<br>Factor<br>dB | Measured<br>Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Remark  |
|----|------------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 1  | 0.180            | 37.43                 | 0.04                | 9.54                 | 47.01                     | 54.50                 | -7.49               | Average |
| 2  | 0.180            | 51.09                 | 0.04                | 9.54                 | 60.67                     | 64.50                 | -3.83               | QP      |
| 3  | 0.256            | 32.76                 | 0.04                | 9.53                 | 42.33                     | 51.56                 | -9.23               | Average |
| 4  | 0.256            | 40.93                 | 0.04                | 9.53                 | 50.50                     | 61.56                 | -11.06              | QP      |
| 5  | 0.466            | 26.45                 | 0.05                | 9.57                 | 36.07                     | 46.58                 | -10.51              | Average |
| 6  | 0.466            | 35.01                 | 0.05                | 9.57                 | 44.63                     | 56.58                 | -11.95              | QP      |
| 7  | 1.908            | 28.17                 | 0.12                | 9.52                 | 37.81                     | 46.00                 | -8.19               | Average |
| 8  | 1.908            | 33.78                 | 0.12                | 9.52                 | 43.42                     | 56.00                 | -12.58              | QP      |
| 9  | 2.409            | 29.12                 | 0.14                | 9.57                 | 38.83                     | 46.00                 | -7.17               | Average |
| 10 | 2.409            | 35.88                 | 0.14                | 9.57                 | 45.59                     | 56.00                 | -10.41              | QP      |
| 11 | 11.745           | 34.31                 | 0.28                | 9.82                 | 44.41                     | 50.00                 | -5.59               | Average |
| 12 | 11.745           | 42.99                 | 0.28                | 9.82                 | 53.09                     | 60.00                 | -6.91               | QP      |



### 7.3 Restricted Bands

|                  |                                                                         |
|------------------|-------------------------------------------------------------------------|
| Test Requirement | 47 CFR Part 15, Subpart C 15.205                                        |
| Test Method:     | ANSI C63.10 (2020) Section 6.10.5                                       |
| Limit:           | The fundamental wave could not fall in the restricted band 90KHz-110KHz |

#### 7.3.1 E.U.T. Operation

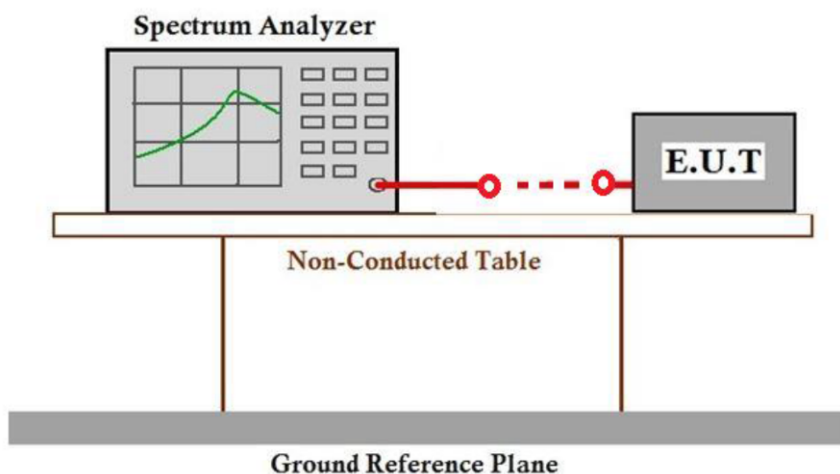
Operating Environment:

Temperature: 19.7 °C Humidity: 64.5 % RH Atmospheric Pressure: 1006 mbar

#### 7.3.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                            |
|--------------------------|--------------|----------------------------------------------------------------------------------------|
| Pre-scan                 | 01           | Charge mode_Keep the EUT charging(5W), power supplied by AC/DC adapter.                |
| Pre-scan                 | 02           | Charge mode_Keep the EUT charging(7.5W), power supplied by AC/DC adapter.              |
| Final test               | 03           | Charge mode_Keep the EUT charging(10W), power supplied by AC/DC adapter.               |
| Pre-scan                 | 07           | Charge mode_Keep the EUT charging(5W), power supplied by self generated electricity.   |
| Pre-scan                 | 08           | Charge mode_Keep the EUT charging(7.5W), power supplied by self generated electricity. |
| Pre-scan                 | 09           | Charge mode_Keep the EUT charging(10W), power supplied by self generated electricity.  |

#### 7.3.3 Test Setup Diagram

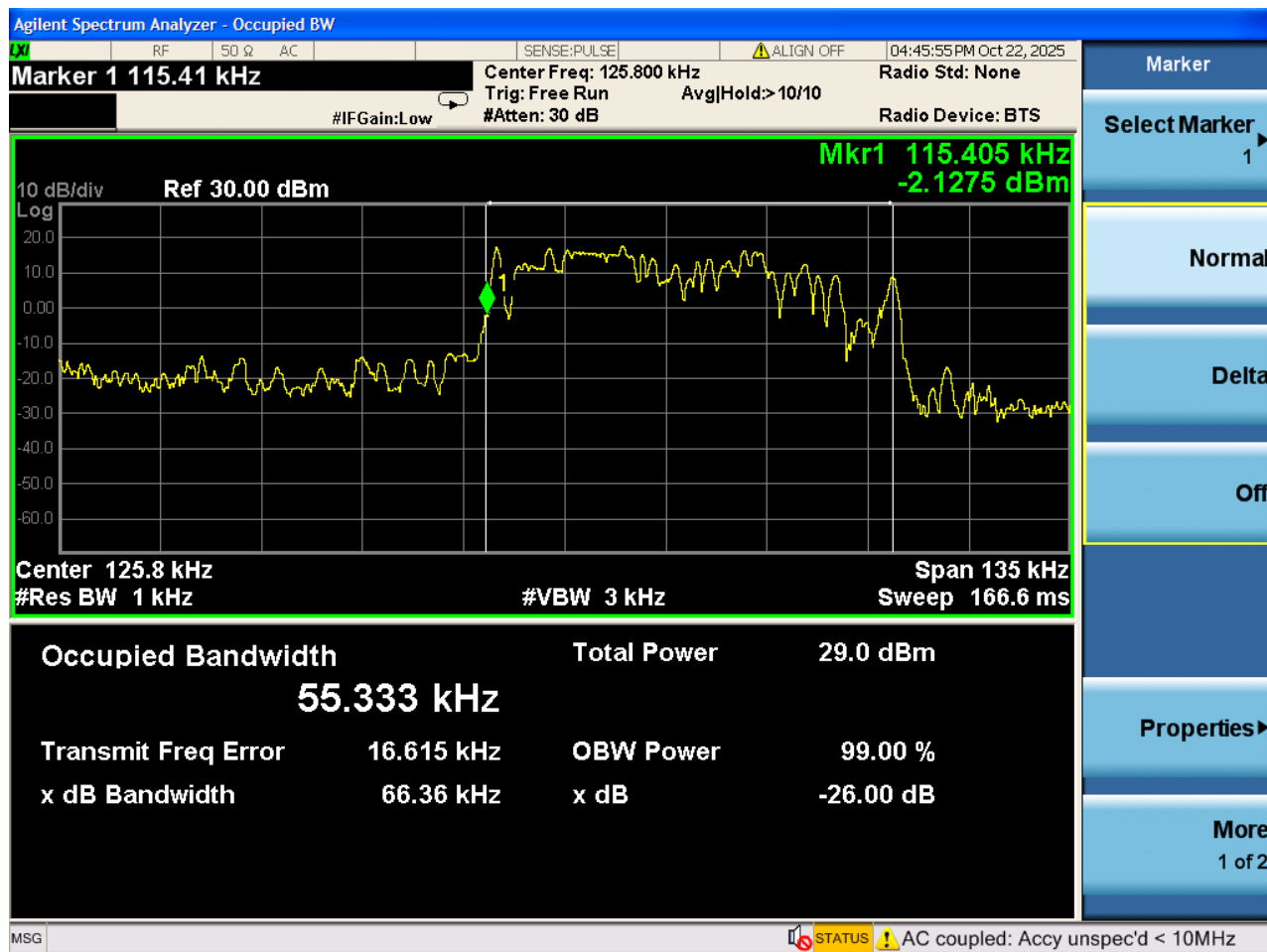


### 7.3.4 Measurement Procedure and Data

Changing will take place when the charger is in contact with EUT only, no space is reserved/ designed for air because the structure of the EUT will automatically fix the device being charged closely.

According the test data below, the fundamental wave is not fall in the restricted band 90kHz-110kHz, the field strength also meet the 15.209 requirement, please refer to clause 7.4.

Test Mode: 03



## 7.4 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.4

Test Distance: 3 m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490    | 2400/F(kHz)                      | 300                          |
| 0.490-1.705    | 24000/F(kHz)                     | 30                           |
| 1.705-30.0     | 30                               | 30                           |

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

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than  $\lambda/2\pi$  and the limit distance is greater than  $\lambda/2\pi$ , the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the  $\lambda/2\pi$  distance, and at a 20 dB/decade of distance rate beyond  $\lambda/2\pi$ . This shall be accomplished using Equation (2):

$$FS_{(3m)} = FS_{(30/300m)} + 40\log\{d_{(near\ field)}/d_{(3m)}\} + 20\log\{d_{(30/300m)}/d_{(near\ field)}\} \quad (2)$$

If the single point measured is at a distance greater than  $\lambda/2\pi$ , then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(3m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(3m)}\} \quad (3)$$

If both the single point and the limit distance are equal to or closer to the EUT than  $\lambda/2\pi$ , then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(3m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(3m)}\} \quad (4)$$

Remark:

$$d_{near\ field} = 47.77 / f_{MHz}$$

where  $f_{MHz}$  is the frequency of the emission being measured in MHz.

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.2 % RH Atmospheric Pressure: 1008 mbar



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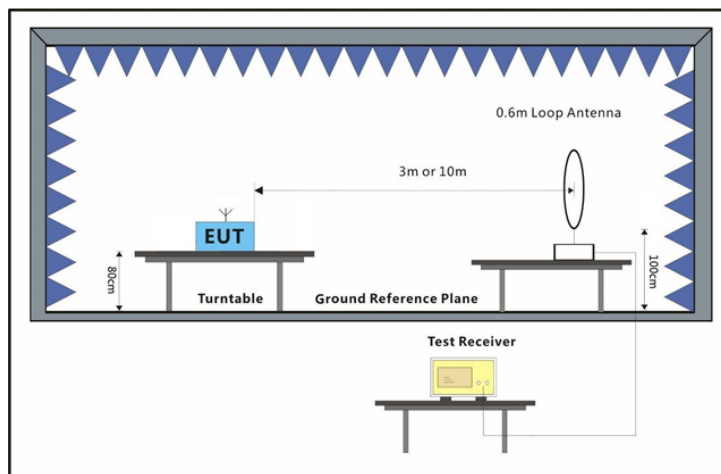
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### 7.4.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                            |
|--------------------------|--------------|----------------------------------------------------------------------------------------|
| <b>Pre-scan</b>          | 01           | Charge mode_Keep the EUT charging(5W), power supplied by AC/DC adapter.                |
| <b>Pre-scan</b>          | 02           | Charge mode_Keep the EUT charging(7.5W), power supplied by AC/DC adapter.              |
| <b>Final test</b>        | 03           | Charge mode_Keep the EUT charging(10W), power supplied by AC/DC adapter.               |
| <b>Pre-scan</b>          | 07           | Charge mode_Keep the EUT charging(5W), power supplied by self generated electricity.   |
| <b>Pre-scan</b>          | 08           | Charge mode_Keep the EUT charging(7.5W), power supplied by self generated electricity. |
| <b>Pre-scan</b>          | 09           | Charge mode_Keep the EUT charging(10W), power supplied by self generated electricity.  |

### 7.4.3 Test Setup Diagram

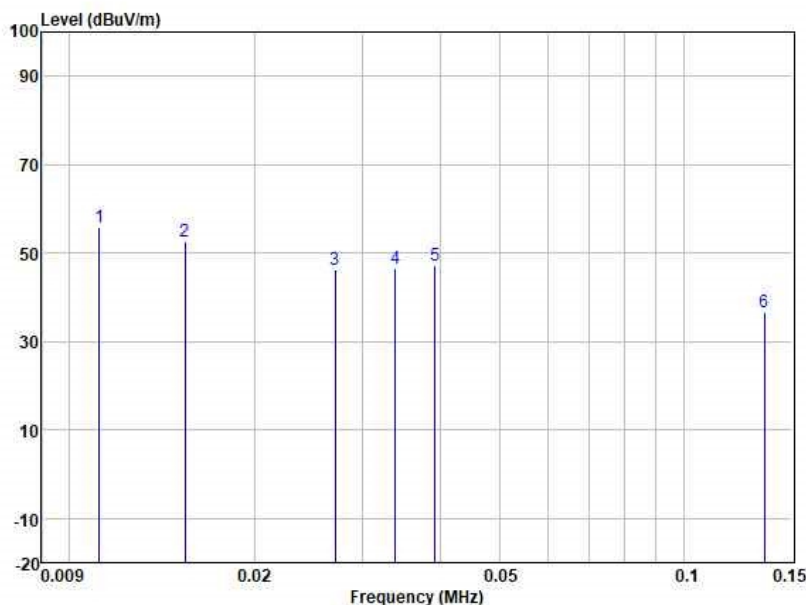


### 7.4.4 Measurement Procedure and Data

- a. All radiated emission measurements in terms of magnetic field strength shall be performed with a shielded loop antenna.
- b. For all radiated emission measurements in terms of magnetic field strength, the loop antenna were placed such that:
  - i. its centre shall be at 1.3 m height above the ground plane;
  - ii. the projection of its centre onto the ground plane shall be at the specified measurement distance from the projection on the ground plane of the closest point on the boundary of the equipment under test (EUT); and
  - iii. measurements shall be performed with the loop antenna placed vertically, in turn, in two polarizations (the measurement axis specified below is the line segment connecting the projections on the ground plane of the centre of the loop antenna and the centre of the EUT arrangement):



Test Mode: 03



Site : SGS  
Model :  
Power :  
Test Mode :

|   | Freq  | Read Level | Antenna Factor | Cable Loss | Preamplifier | Measured Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|-------|------------|----------------|------------|--------------|----------------|------------|------------|-----------|--------|
|   | MHz   | dBuV       | dB/m           | dB         | dB           | dBuV/m         | dBuV/m     | dB         |           |        |
| 1 | 0.011 | 65.87      | 18.14          | 0.00       | 28.05        | 55.96          |            |            |           |        |
| 2 | 0.015 | 65.55      | 15.26          | 0.00       | 28.15        | 52.66          |            |            |           |        |
| 3 | 0.027 | 61.73      | 13.16          | 0.01       | 28.54        | 46.36          |            |            |           |        |
| 4 | 0.034 | 62.75      | 12.76          | 0.01       | 29.00        | 46.52          |            |            |           |        |
| 5 | 0.039 | 63.94      | 12.45          | 0.01       | 29.15        | 47.25          |            |            |           |        |
| 6 | 0.135 | 54.16      | 11.91          | 0.02       | 29.50        | 36.59          |            |            |           |        |

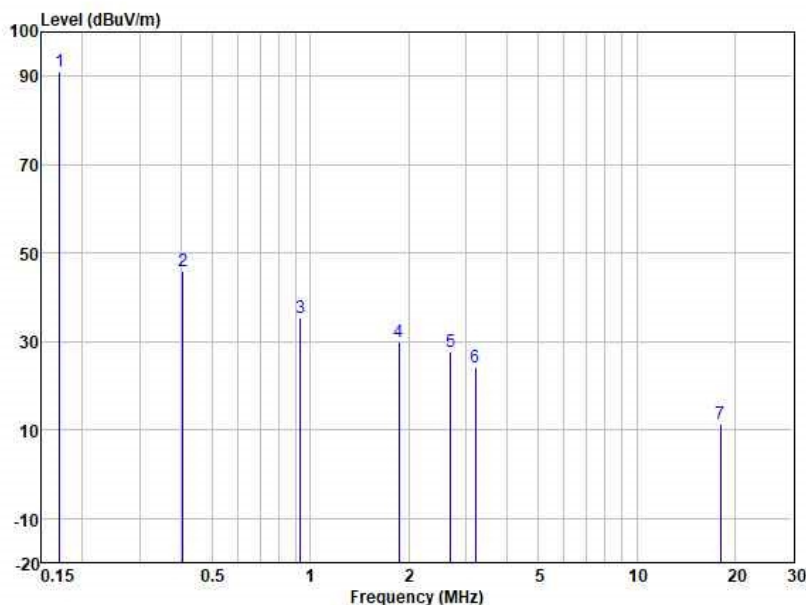
| Frequency (MHz) | Level @3m (dBuV/m) | Limit @300m (dBuV/m) | Convert Factor (dB) | Level @ 300m (dBuV/m) | Over limit (dB) | Remark |
|-----------------|--------------------|----------------------|---------------------|-----------------------|-----------------|--------|
| 0.011           | 55.96              | 46.78                | 80                  | -24.04                | -70.82          | AV     |
| 0.015           | 52.66              | 44.08                | 80                  | -27.34                | -71.42          | AV     |
| 0.027           | 46.36              | 38.98                | 80                  | -33.64                | -72.62          | AV     |
| 0.034           | 46.52              | 36.97                | 80                  | -33.48                | -70.45          | AV     |
| 0.039           | 47.25              | 35.78                | 80                  | -32.75                | -68.53          | AV     |
| 0.135           | 36.59              | 25.00                | 80                  | -43.41                | -68.41          | AV     |



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Test Mode: 03



Site : SGS  
Model :  
Power :  
Test Mode :

|   | Freq   | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Measured Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|--------|------------|----------------|------------|---------------|----------------|------------|------------|-----------|--------|
|   | MHz    | dBuV       | dB/m           | dB         | dB            | dBuV/m         | dBuV/m     | dB         |           |        |
| 1 | 0.170  | 108.63     | 11.86          | 0.03       | 29.50         | 91.02          |            |            |           |        |
| 2 | 0.406  | 63.29      | 11.86          | 0.06       | 29.41         | 45.80          |            |            |           |        |
| 3 | 0.933  | 52.73      | 11.85          | 0.07       | 29.40         | 35.25          |            |            |           |        |
| 4 | 1.868  | 47.40      | 11.84          | 0.09       | 29.40         | 29.93          |            |            |           |        |
| 5 | 2.692  | 45.26      | 11.84          | 0.12       | 29.40         | 27.82          |            |            |           |        |
| 6 | 3.207  | 41.45      | 11.81          | 0.15       | 29.40         | 24.01          |            |            |           |        |
| 7 | 18.039 | 31.15      | 9.01           | 0.29       | 29.23         | 11.22          |            |            |           |        |

Remark: The point 1 is the fundamental frequency of the EUT.

| Frequency (MHz) | Level @3m (dBuV/m) | Limit @300m (dBuV/m) | Convert Factor (dB) | Level @ 300m (dBuV/m) | Over limit (dB) | Remark |
|-----------------|--------------------|----------------------|---------------------|-----------------------|-----------------|--------|
| 0.170           | 91.02              | 80                   | 11.02               | 23.00                 | -11.98          | AV     |
| 0.406           | 45.80              | 80                   | -34.20              | 15.43                 | -49.63          | AV     |
| Frequency (MHz) | Level @3m (dBuV/m) | Limit @30m (dBuV/m)  | Convert Factor (dB) | Level @ 30m (dBuV/m)  | Over limit (dB) | Remark |
| 0.933           | 35.25              | 40                   | -4.75               | 28.21                 | -32.96          | QP     |
| 1.868           | 29.93              | 40                   | -10.07              | 29.54                 | -39.61          | QP     |
| 2.692           | 27.82              | 40                   | -12.18              | 29.54                 | -41.72          | QP     |
| 3.207           | 24.01              | 40                   | -15.99              | 29.54                 | -45.53          | QP     |
| 18.039          | 11.22              | 40                   | -28.78              | 29.54                 | -58.32          | QP     |



## 7.5 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.5

Test Distance: 10 m

Limit:

| Frequency(MHz)                                                                                                        | Field strength(microvolts/meter) | Measurement distance(meters) |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------|
| 30-88                                                                                                                 | 100                              | 3                            |
| 88-216                                                                                                                | 150                              | 3                            |
| 216-960                                                                                                               | 200                              | 3                            |
| Above 960                                                                                                             | 500                              | 3                            |
| Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector. |                                  |                              |

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 56.4 % RH

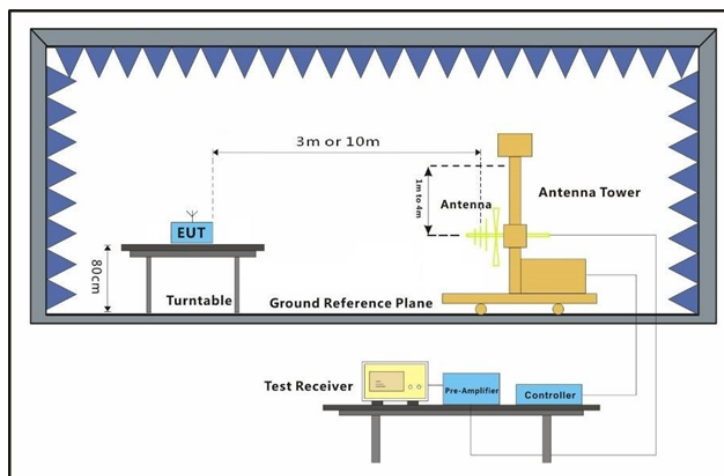
Atmospheric Pressure: 1008 mbar

### 7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                            |
|-----------------------|-----------|----------------------------------------------------------------------------------------|
| Pre-scan              | 01        | Charge mode_Keep the EUT charging(5W), power supplied by AC/DC adapter.                |
| Pre-scan              | 02        | Charge mode_Keep the EUT charging(7.5W), power supplied by AC/DC adapter.              |
| Final test            | 03        | Charge mode_Keep the EUT charging(10W), power supplied by AC/DC adapter.               |
| Pre-scan              | 07        | Charge mode_Keep the EUT charging(5W), power supplied by self generated electricity.   |
| Pre-scan              | 08        | Charge mode_Keep the EUT charging(7.5W), power supplied by self generated electricity. |
| Pre-scan              | 09        | Charge mode_Keep the EUT charging(10W), power supplied by self generated electricity.  |



### 7.5.3 Test Setup Diagram

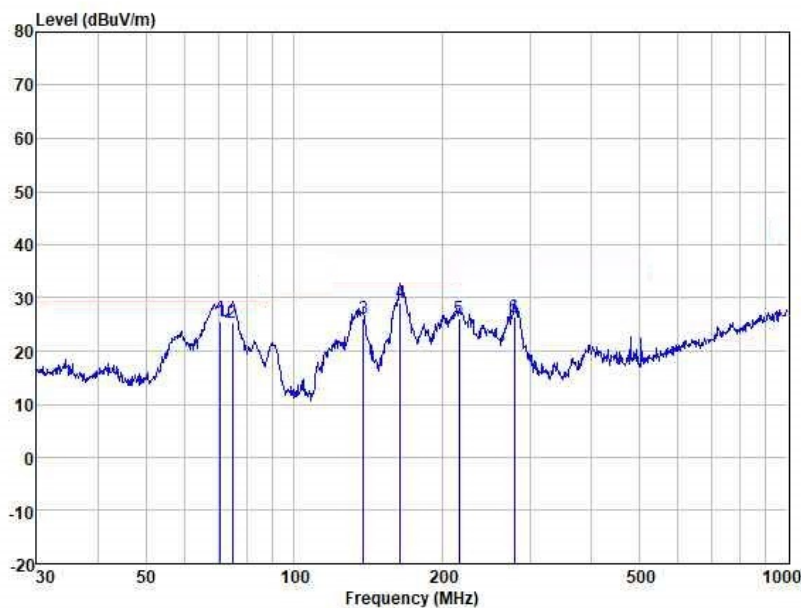


### 7.5.4 Measurement Procedure and Data

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

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Test Mode: 03; Polarity: Horizontal



Site : SGS  
Model :  
Power :  
Test Mode :

|   | Freq    | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Measured Level | Limit Line | Over Limit | Pol/Phase  | Remark |
|---|---------|------------|----------------|------------|---------------|----------------|------------|------------|------------|--------|
|   | MHz     | dBuV       | dB/m           | dB         | dB            | dBuV/m         | dBuV/m     | dB         |            |        |
| 1 | 70.832  | 41.25      | 11.47          | 0.80       | 27.87         | 25.65          |            |            | HORIZONTAL | QP     |
| 2 | 74.919  | 41.73      | 10.61          | 0.81       | 27.85         | 25.30          |            |            | HORIZONTAL | QP     |
| 3 | 137.903 | 40.05      | 12.96          | 0.95       | 27.75         | 26.21          |            |            | HORIZONTAL | QP     |
| 4 | 163.755 | 42.34      | 13.39          | 1.03       | 27.69         | 29.07          |            |            | HORIZONTAL | QP     |
| 5 | 216.024 | 41.97      | 10.24          | 1.30       | 27.38         | 26.13          |            |            | HORIZONTAL | QP     |
| 6 | 279.044 | 38.91      | 13.08          | 1.64       | 27.23         | 26.40          |            |            | HORIZONTAL | QP     |

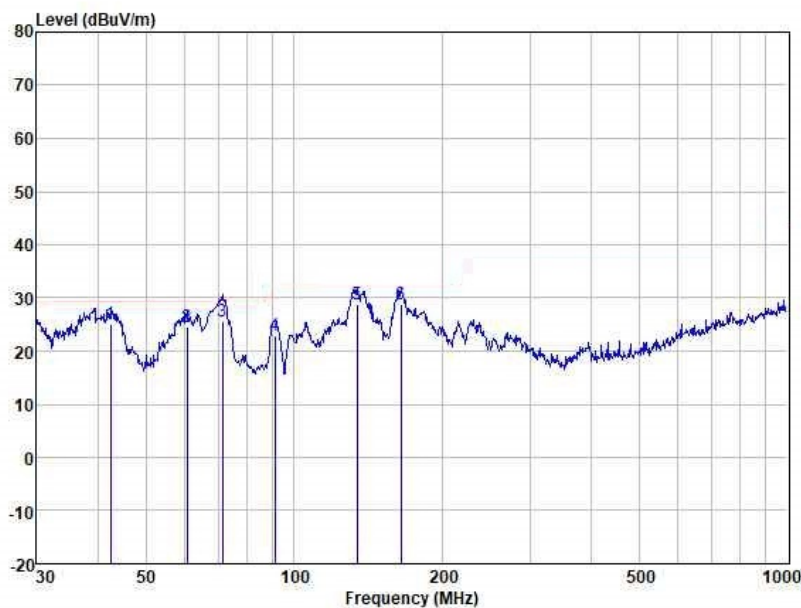
| Frequency (MHz) | Level @10m (dBuV/m) | Convert Factor (dB)* | Level @ 3m (dBuV/m) | Limit @3m (dBuV/m) | Over limit (dB) | Remark |
|-----------------|---------------------|----------------------|---------------------|--------------------|-----------------|--------|
| 70.832          | 25.65               | 10.46                | 36.11               | 40.00              | -3.89           | QP     |
| 74.919          | 25.30               | 10.46                | 35.76               | 40.00              | -4.24           | QP     |
| 137.903         | 26.21               | 10.46                | 36.67               | 43.52              | -6.85           | QP     |
| 163.755         | 29.07               | 10.46                | 39.53               | 43.52              | -3.99           | QP     |
| 216.024         | 26.13               | 10.46                | 36.59               | 46.02              | -9.43           | QP     |
| 279.044         | 26.40               | 10.46                | 36.86               | 46.02              | -9.16           | QP     |



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Test Mode: 03; Polarity: Vertical



Site : SGS  
Model :  
Power :  
Test Mode :

|   | Freq    | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Measured Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|---------|------------|----------------|------------|---------------|----------------|------------|------------|-----------|--------|
|   | MHz     | dBuV       | dB/m           | dB         | dB            | dBuV/m         | dBuV/m     | dB         |           |        |
| 1 | 42.451  | 38.49      | 13.81          | 0.70       | 27.98         | 25.02          |            |            | VERTICAL  | QP     |
| 2 | 60.492  | 38.47      | 13.24          | 0.78       | 27.93         | 24.56          |            |            | VERTICAL  | QP     |
| 3 | 71.581  | 41.31      | 11.31          | 0.80       | 27.87         | 25.55          |            |            | VERTICAL  | QP     |
| 4 | 91.175  | 41.84      | 8.02           | 0.83       | 27.81         | 22.88          |            |            | VERTICAL  | QP     |
| 5 | 134.088 | 42.95      | 12.61          | 0.94       | 27.75         | 28.75          |            |            | VERTICAL  | QP     |
| 6 | 164.330 | 42.04      | 13.39          | 1.04       | 27.69         | 28.78          |            |            | VERTICAL  | QP     |

| Frequency (MHz) | Level @10m (dBuV/m) | Convert Factor (dB)* | Level @ 3m (dBuV/m) | Limit @3m (dBuV/m) | Over limit (dB) | Remark |
|-----------------|---------------------|----------------------|---------------------|--------------------|-----------------|--------|
| 42.451          | 25.02               | 10.46                | 35.48               | 40.00              | -4.52           | QP     |
| 60.492          | 24.56               | 10.46                | 35.02               | 40.00              | -4.98           | QP     |
| 71.581          | 25.55               | 10.46                | 36.01               | 40.00              | -3.99           | QP     |
| 91.175          | 22.88               | 10.46                | 33.34               | 43.52              | -10.18          | QP     |
| 134.088         | 28.75               | 10.46                | 39.21               | 43.52              | -4.31           | QP     |
| 164.330         | 28.78               | 10.46                | 39.24               | 43.52              | -4.28           | QP     |



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR250700110502



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## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2507001105HS

- End of the Report -

