

TEST REPORT

Product Name : Party Speaker
Model Number : Party Rocker One Plus, HP110
FCC ID : ESXHP110

Prepared for : Guangzhou Panyu Juda Car Audio Equipment Co.,Ltd.
Address : NO.5 Building ,No.139,Zhouxing Street, Dongchong
Town,Nansha District, Guangzhou, Guangdong, China

Prepared by : EMTEK (SHENZHEN) CO., LTD.
Address : Building 69, Majialong Industry Zone, Nanshan District,
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Report Number : ENS2203300222W00603R
Date(s) of Tests : March 30, 2022 to June 16, 2022
Date of issue : June 16, 2022

\$二维码\$

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TEST RESULT CERTIFICATION

Applicant : Guangzhou Panyu Juda Car Audio Equipment Co.,Ltd.
Address : NO.5 Building ,No.139,Zhouxing Street, Dongchong Town,Nansha District, Guangzhou, Guangdong, China
Manufacturer : Guangzhou Panyu Juda Car Audio Equipment Co.,Ltd.
Address : NO.5 Building ,No.139,Zhouxing Street, Dongchong Town,Nansha District, Guangzhou, Guangdong, China
EUT : Party Speaker
Model Name : Party Rocker One Plus, HP110
Trademark : Hisense

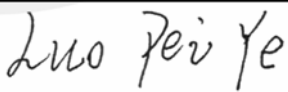
Measurement Procedure Used:

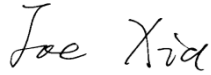
| APPLICABLE STANDARDS | |
|---|-------------|
| STANDARD | TEST RESULT |
| FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C | PASS |


The above equipment was tested by EMTEK(SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207&15.209.

The test results of this report relate only to the tested sample identified in this report.

Date of Test : March 30, 2022 to June 16, 2022

Prepared by : 
Luo peiye /Editor

Reviewer : 
Joe Xia/Editor

Approve & Authorized Signer : 
Lisa Wang/Manager



1 EUT TECHNICAL DESCRIPTION

| | |
|---------------------|---|
| Product: | Party Speaker |
| Model Number: | Party Rocker One Plus, HP110 Note: Only the model name is different. |
| Power Supply | AC100-240V~ 50/60Hz, DC 12V from DC Port, DC 7.4V from Battery |
| Operating Frequency | 110-205KHz |
| Modulation | FSK |
| Antenna Type | Induction coil antenna |
| Temperature Range | 0°C ~ +45°C |

Note: for more details, please refer to the User's manual of the EUT.



2 SUMMARY OF TEST RESULT

| FCC Part Clause | Test Parameter | Verdict | Remark |
|-----------------------------|-----------------------------|---------|--------|
| 2.1049 | Occupied Bandwidth | PASS | |
| 15.209 | Radiated Spurious Emissions | PASS | |
| 15.207 | Conducted Emission | PASS | |
| NOTE1: N/A (Not Applicable) | | | |

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: ESXHP110 filing to comply with Section 15.225 of the FCC Part 15, Subpart C Rules.



3 TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

3.2 MEASUREMENT EQUIPMENT USED

Conducted Emission Test Equipment

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---------------|-----------------|-----------|------------|--------------|---------------|
| Test Receiver | Rohde & Schwarz | ESCI | 101384 | May 14, 2022 | 1 Year |
| L.I.S.N. | Rohde & Schwarz | ENV216 | 5 | May 14, 2022 | 1 Year |
| L.I.S.N. | Kyoritsu | KNW-407 | 8-1492-9 | May 15, 2022 | 1 Year |

Radiated Emission Test Equipment

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|--------------------------|-----------------|--------------------------|--------------|---------------|---------------|
| EMI Test Receiver | Rohde & Schwarz | ESU 26 | 100154 | May 14, 2022 | 1 Year |
| Pre-Amplifier | Lunar EM | LNA30M3G-25 | J10100000070 | May 14, 2022 | 1 Year |
| Bilog Antenna | Schwarzbeck | VULB9163 | 661 | Aug. 22, 2021 | 2 Year |
| Horn antenna | Schwarzbeck | BBHA9120D | 9120D-1177 | Jul. 04, 2020 | 2 Year |
| Pre-Amplifier | SKET | LNPA_0118G-45 | SK2019051801 | May 14, 2022 | 1 Year |
| Loop Antenna | Schwarzbeck | FMZB1519 | 1519-012 | Jun. 12, 2021 | 2 Year |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 100967 | May 14, 2022 | 1 Year |
| Horn antenna | Schwarzbeck | BBHA9120D | 9120D-1178 | Jul. 04, 2020 | 2 Year |
| Band reject Filter(50dB) | WI/DE | WRCGV-2400(2400-2485MHz) | 2 | May 14, 2022 | 1 Year |

Radio Frequency Test Equipment

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|-----------------------------------|--------------|-----------|------------|---------------|---------------|
| Wireless Connectivity Tester | R&S | CMW270 | 102543 | Aug. 27, 2021 | 1Year |
| Automatic Control Unit | Tonscend | JS0806-2 | 2118060480 | Nov. 18, 2021 | 1Year |
| Signal Analyzer | KEYSIGHT | N9010B | MY60242456 | Jan. 21, 2022 | 1Year |
| Analog Signal Generator | KEYSIGHT | N5173B | MY61252625 | Oct. 29, 2021 | 1Year |
| UP/DOWN-Converter | R&S | CMW-Z800A | 100274 | Sep. 14, 2021 | 1Year |
| Vector Signal Generator | KEYSIGHT | N5182B | MY61252674 | Oct. 28, 2021 | 1Year |
| Frequency Extender | KEYSIGHT | N5182BX07 | MY59362541 | Nov. 23, 2021 | 1Year |
| Temperature&Humidity test chamber | ESPEC | EL-02KA | 12107166 | Jul. 03, 2021 | 1 Year |

3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its charging mode condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting mode is programmed.

3.4 INDEPENDENT OPERATION MODES

| Test ModeA | Description | Remark |
|------------------------|-------------|-----------------|
| Mode A Charging(5W) | 100% Load | With dummy load |
| | 50% Load | With dummy load |
| | 10% Load | With dummy load |

3.5 TEST MANNER

| Test Items | Test Voltage | Operation Modes | Worst case |
|-----------------------------|--|-----------------|-------------------|
| Occupied Bandwidth | AC120V/60Hz, DC 12V from DC Port, DC 7.4V from Battery | Mode A, | Mode A(100% Load) |
| Radiated Spurious Emissions | AC120V/60Hz, DC 12V from DC Port, DC 7.4V from Battery | Mode A, | Mode A(100% Load) |
| Conducted Emission | AC120V/60Hz, DC 12V from DC Port, DC 7.4V from Battery | Mode A, | Mode A(100% Load) |

Notes: The EUT supports charging the load while charging itself.

All wireless charging modes have been tested, and the worst mode is shown below.

4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

4.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab.

: **Accredited by CNAS**

The Certificate Registration Number is L2291.

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)

Accredited by FCC

Designation Number: CN1204

Test Firm Registration Number: 882943

Accredited by A2LA

The Certificate Number is 4321.01.

Accredited by Industry Canada

The Conformity Assessment Body Identifier is CN0008

Name of Firm

: EMTEK (SHENZHEN) CO., LTD.

Site Location

: Building 69, Majialong Industry Zone,
Nanshan District, Shenzhen, Guangdong, China

5 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Parameter | Uncertainty |
|--------------------------|-------------------------|
| Radio Frequency | $\pm 1 \times 10^{-5}$ |
| Conducted Emissions Test | $\pm 2.0\text{dB}$ |
| Radiated Emission Test | $\pm 2.0\text{dB}$ |
| Occupied Bandwidth Test | $\pm 1.0\text{dB}$ |
| All emission, radiated | $\pm 3\text{dB}$ |
| Temperature | $\pm 0.5^\circ\text{C}$ |
| Humidity | $\pm 3\%$ |

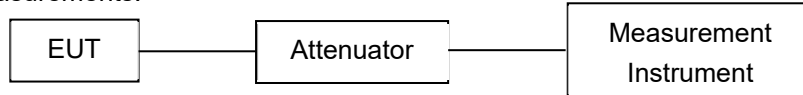
Measurement Uncertainty for a level of Confidence of 95%



6 SETUP OF EQUIPMENT UNDER TEST

6.1 RADIO FREQUENCY TEST SETUP 1

The component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



6.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

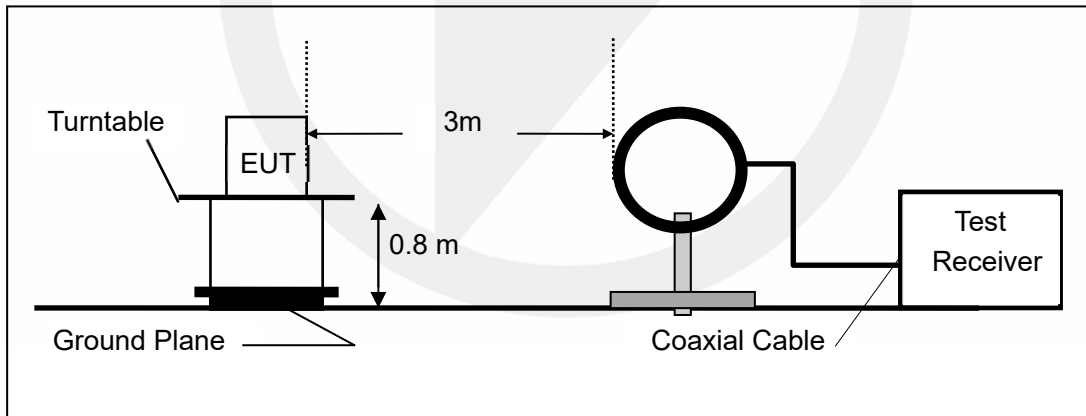
Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

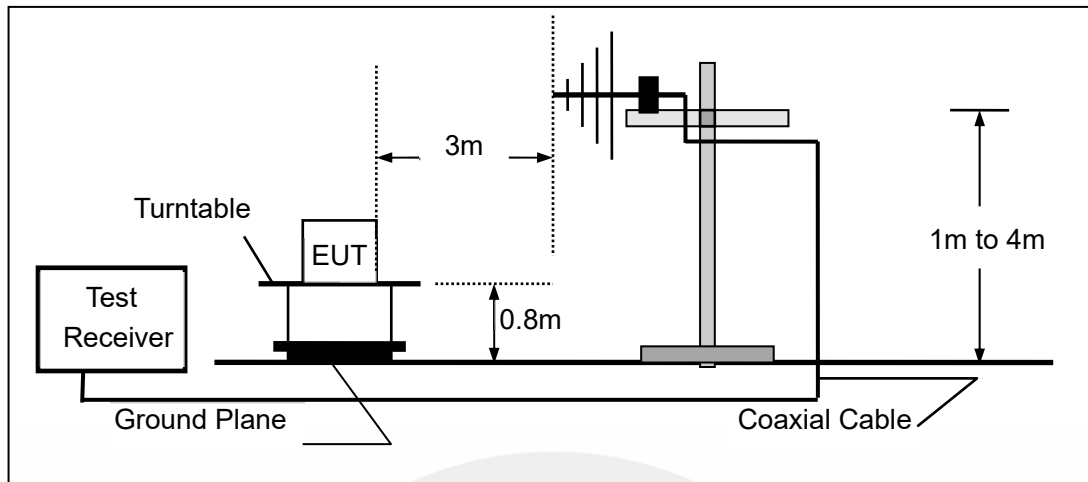
Above 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz

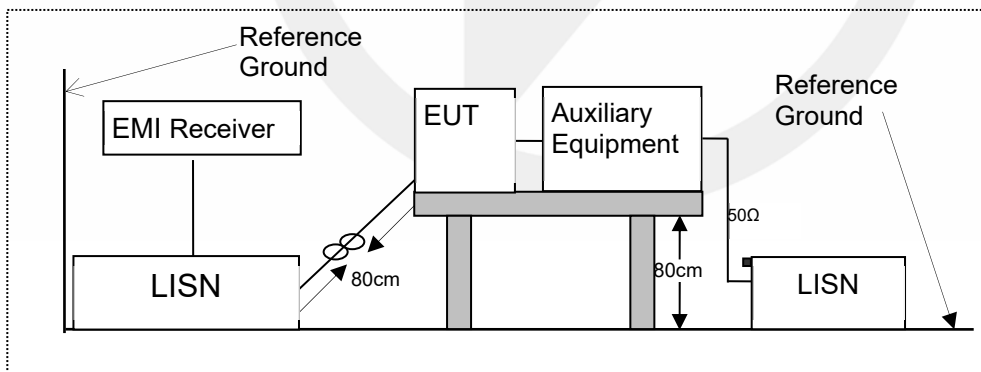


6.3 CONDUCTED EMISSION TEST SETUP

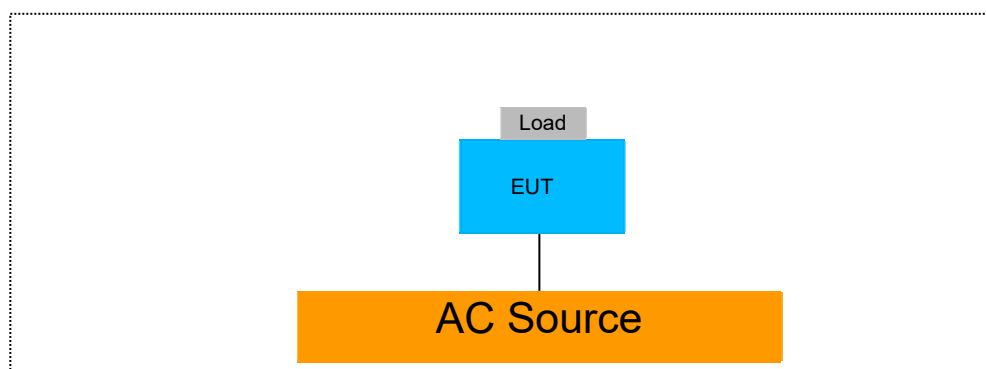
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



6.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



6.5 SUPPORT EQUIPMENT

| EUT Cable List and Details | | | |
|----------------------------|------------|---------------------|------------------------|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| / | / | / | / |

| Auxiliary Cable List and Details | | | |
|----------------------------------|------------|---------------------|------------------------|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| / | / | / | / |

| Auxiliary Equipment List and Details | | | |
|--------------------------------------|--------------|-------|---------------|
| Description | Manufacturer | Model | Serial Number |
| Dummy Load | / | / | / |
| | | | |

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. Unless otherwise denoted as EUT in 『Remark』 column, device(s) used in tested system is a support equipment

7 TEST REQUIREMENTS

7.1 OCCUPIED BANDWIDTH

7.1.1 Applicable Standard

According to FCC Part 2.1049

7.1.2 Conformance Limit

No limit requirement.

7.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

7.1.4 Test Procedure

The EUT was operating in transmit mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 1% occupied bandwidth (30Hz).

Set the video bandwidth (VBW) = 3 times RBW .

Set Span= approximately 2 to 3 times the occupied bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

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 99% down one side of the emission. Reset the markerdelta 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 99% bandwidth of the emission.

If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.

Measure and record the results in the test report.

7.1.5 Test Results

| | | | |
|---------------|------|-------------|---------------|
| Temperature : | 25°C | Test Date : | June 05, 2022 |
| Humidity : | 65 % | Test By: | XXH |

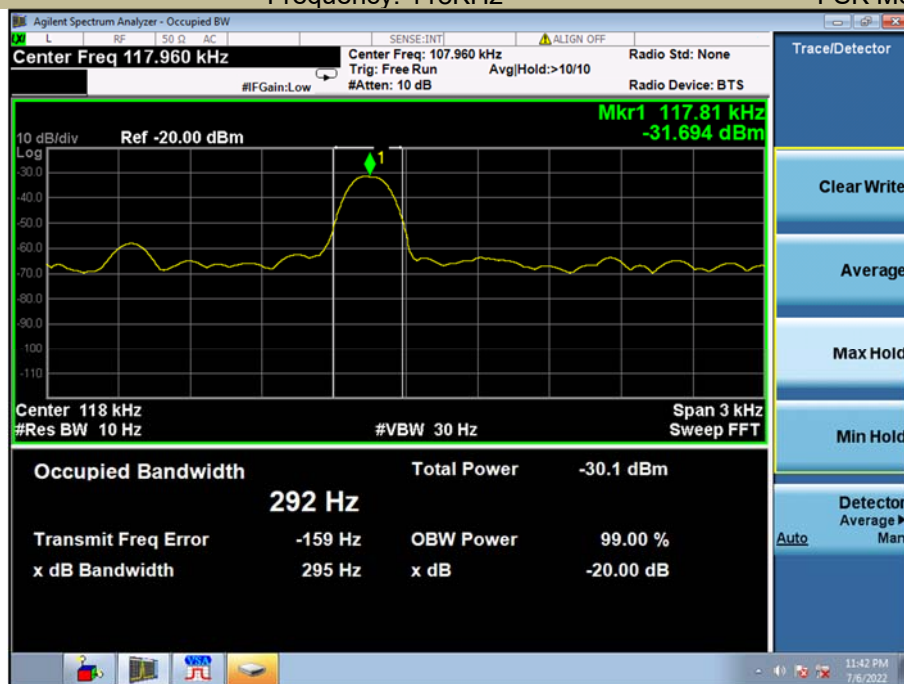
| Modulation Mode | Channel Number | Channel Frequency (KHz) | -20dB Measurement Bandwidth (kHz) | Limit (kHz) | Verdict |
|----------------------------|----------------|-------------------------|-----------------------------------|-------------|---------|
| FSK | / | 118KHz | 0.295 | N/A | PASS |
| Note: N/A (Not Applicable) | | | | | |

Test Model

-20dB Bandwidth

Frequency: 118KHz

FSK Modulation



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.209

7.2.2 Conformance Limit

| FCC Part 15.209 | | | | |
|--------------------|------------------------------|------|--|-------------------------|
| Frequency (MHz) | Field Strength Limitation | | Field Strength Limitation Frequency tion at 3m Measurement Dist | |
| | (uV/m) | Dist | (uV/m) | (dBuV/m) |
| 0.009 – 0.490 | 2400 / F(KHz) | 300m | 10000 * 2400/F(KHz) | 20log 2400/F(KHz) + 80 |
| 0.490 – 1.705 | 24000 / F(KHz) | 30m | 100 * 24000/F(KHz) | 20log 24000/F(KHz) + 40 |
| 1.705 – 30.00 | 30 | 30m | 100* 30 | 20log 30 + 40 |
| 30.0 – 88.0 | 100 | 3m | 100 | 20log 100 |
| 88.0 – 216.0 | 150 | 3m | 150 | 20log 150 |
| 216.0 – 960.0 | 200 | 3m | 200 | 20log 200 |
| Above 960.0 | 500 | 3m | 500 | 20log 500 |

According to FCC Part15.205, Restricted bands

| MHz | MHz | MHz | GHz |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | Above 38.6 |
| 13.36-13.41 | | | |

Remark: 1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

7.2.3 Test Configuration

Test according to clause 6.2 radio frequency test setup 2

7.2.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 100 kHz for $f < 1$ GHz (30MHz to 1GHz), 200Hz for $f < 150$ KHz (9KHz to 150KHz), 9KHz for $f < 30$ MHz (150KHz to 30KHz)

VBW \geq RBW

Sweep = auto

Detector function = peak

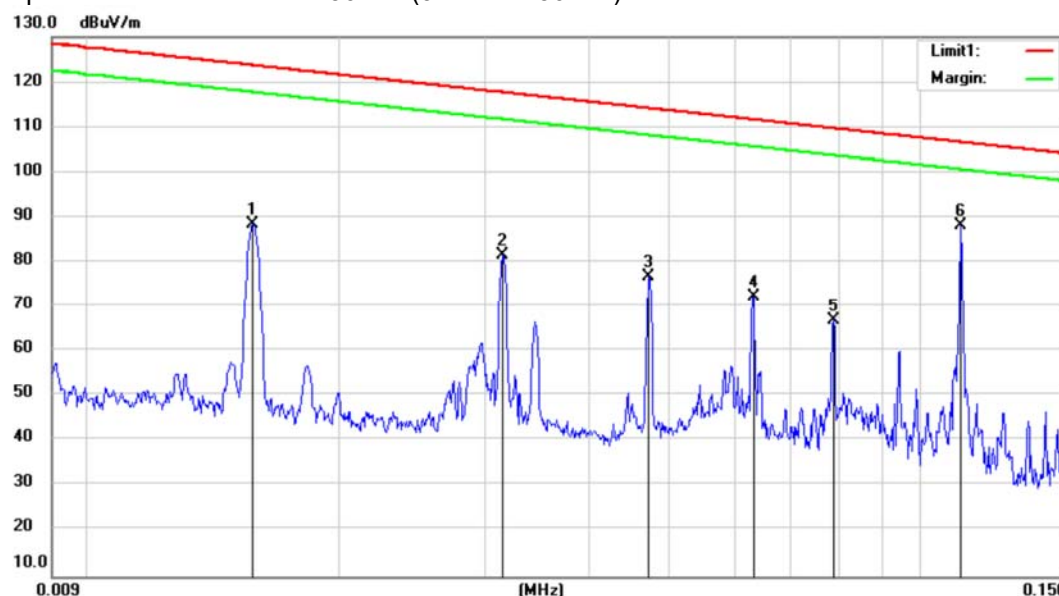
Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Repeat above procedures until all frequency measured was complete.

7.2.5 Test Results

■ Spurious Emission below 150kHz (9KHz to 150kHz)



Site 3m Chamber #1

Polarization: X

Temperature: 28.1 C

Limit: (RE)FCC PART 15.209(9K-30M)

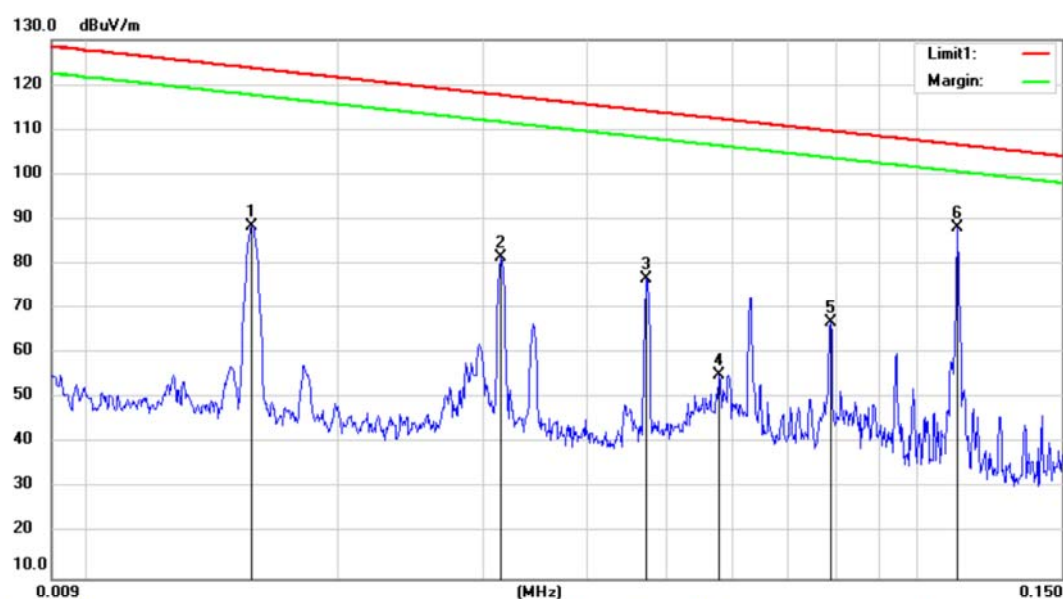
Power: AC 120V/60Hz

Humidity: 43 %

Mode:WPT 100%Load

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | cm | degree | Comment |
| 1 | | 0.0157 | 67.85 | 20.59 | 88.44 | 123.67 | -35.23 | peak | | |
| 2 | | 0.0314 | 61.01 | 20.61 | 81.62 | 117.65 | -36.03 | peak | | |
| 3 | | 0.0472 | 55.78 | 20.85 | 76.63 | 114.11 | -37.48 | peak | | |
| 4 | | 0.0631 | 51.57 | 20.76 | 72.33 | 111.59 | -39.26 | peak | | |
| 5 | | 0.0788 | 46.15 | 20.73 | 66.88 | 109.66 | -42.78 | peak | | |
| 6 | * | 0.1123 | 67.55 | 20.56 | 88.11 | 106.59 | -18.48 | peak | | |



Site 3m Chamber #1

Polarization: Y

Temperature: 28.1 C

Limit: (RE)FCC PART 15.209(9K-30M)

Power: AC 120V/60Hz

Humidity: 43 %

Mode:WPT 100%Load

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | cm | degree | Comment |
| 1 | | 0.0157 | 67.82 | 20.59 | 88.41 | 123.67 | -35.26 | peak | | |
| 2 | | 0.0314 | 60.94 | 20.61 | 81.55 | 117.65 | -36.10 | peak | | |
| 3 | | 0.0472 | 55.86 | 20.85 | 76.71 | 114.11 | -37.40 | peak | | |
| 4 | | 0.0576 | 34.31 | 20.81 | 55.12 | 112.39 | -57.27 | peak | | |
| 5 | | 0.0788 | 46.02 | 20.73 | 66.75 | 109.66 | -42.91 | peak | | |
| 6 | * | 0.1123 | 67.50 | 20.56 | 88.06 | 106.59 | -18.53 | peak | | |



Site 3m Chamber #1

Polarization: Z

Temperature: 28.1 C

Limit: (RE)FCC PART 15.209(9K-30M)

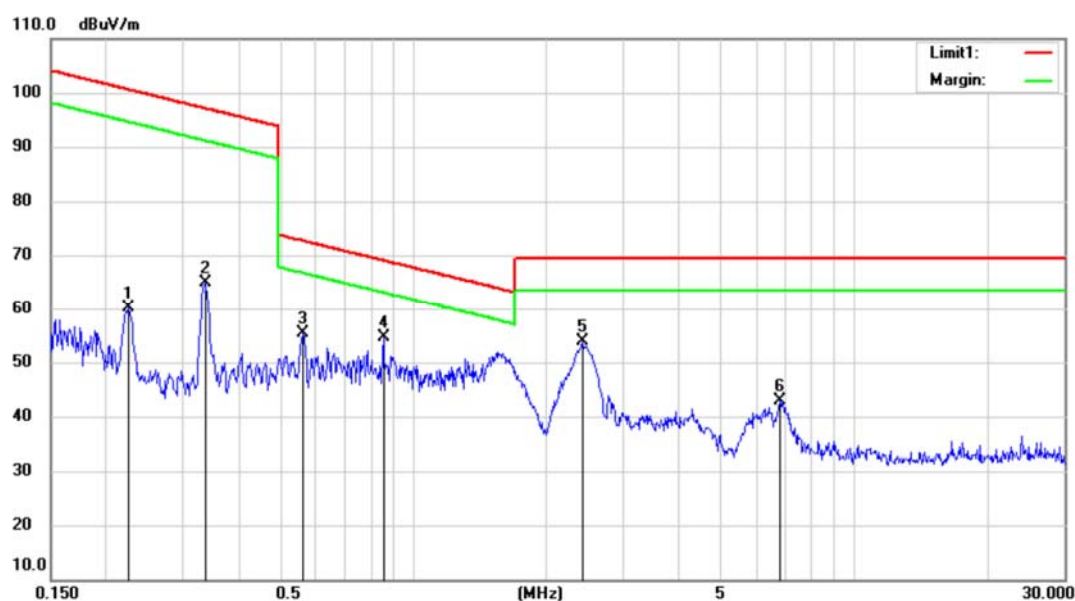
Power: AC 120V/60Hz

Humidity: 43 %

Mode: WPT 100%Load

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | cm | degree | Comment |
| 1 | | 0.0157 | 67.79 | 20.59 | 88.38 | 123.67 | -35.29 | peak | | |
| 2 | | 0.0314 | 60.94 | 20.61 | 81.55 | 117.65 | -36.10 | peak | | |
| 3 | | 0.0472 | 55.81 | 20.85 | 76.66 | 114.11 | -37.45 | peak | | |
| 4 | | 0.0631 | 51.68 | 20.76 | 72.44 | 111.59 | -39.15 | peak | | |
| 5 | | 0.0946 | 39.21 | 20.74 | 59.95 | 108.08 | -48.13 | peak | | |
| 6 | * | 0.1120 | 67.99 | 20.56 | 88.55 | 106.61 | -18.06 | peak | | |



Site 3m Chamber #1

Limit: (RE)FCC PART 15.209(9K-30M)

Mode:WPT 100%Load

Note:

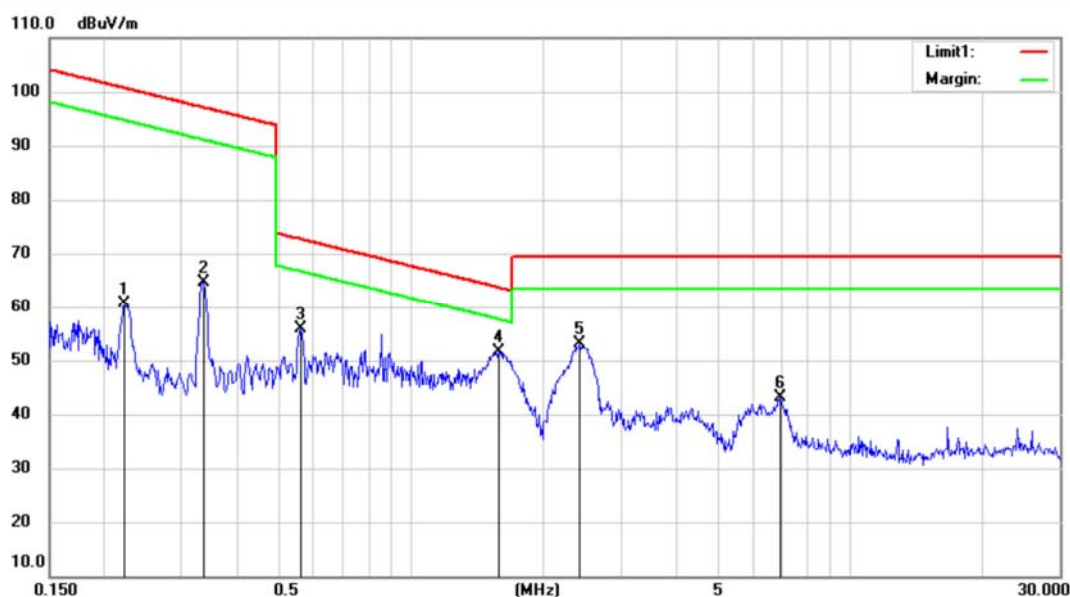
Polarization: X

Power: AC 120V/60Hz

Temperature: 28.1 C

Humidity: 43 %

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Antenna Height cm | Table Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|---------|
| 1 | | 0.2244 | 39.69 | 20.44 | 60.13 | 100.58 | -40.45 | peak | | |
| 2 | | 0.3356 | 44.19 | 20.66 | 64.85 | 97.09 | -32.24 | peak | | |
| 3 | | 0.5611 | 34.43 | 21.00 | 55.43 | 72.63 | -17.20 | peak | | |
| 4 | * | 0.8528 | 33.52 | 21.00 | 54.52 | 69.00 | -14.48 | peak | | |
| 5 | | 2.4090 | 33.06 | 20.74 | 53.80 | 69.50 | -15.70 | peak | | |
| 6 | | 6.7691 | 22.30 | 20.67 | 42.97 | 69.50 | -26.53 | peak | | |



Site 3m Chamber #1

Polarization: Y

Temperature: 28.1 C

Limit: (RE)FCC PART 15.209(9K-30M)

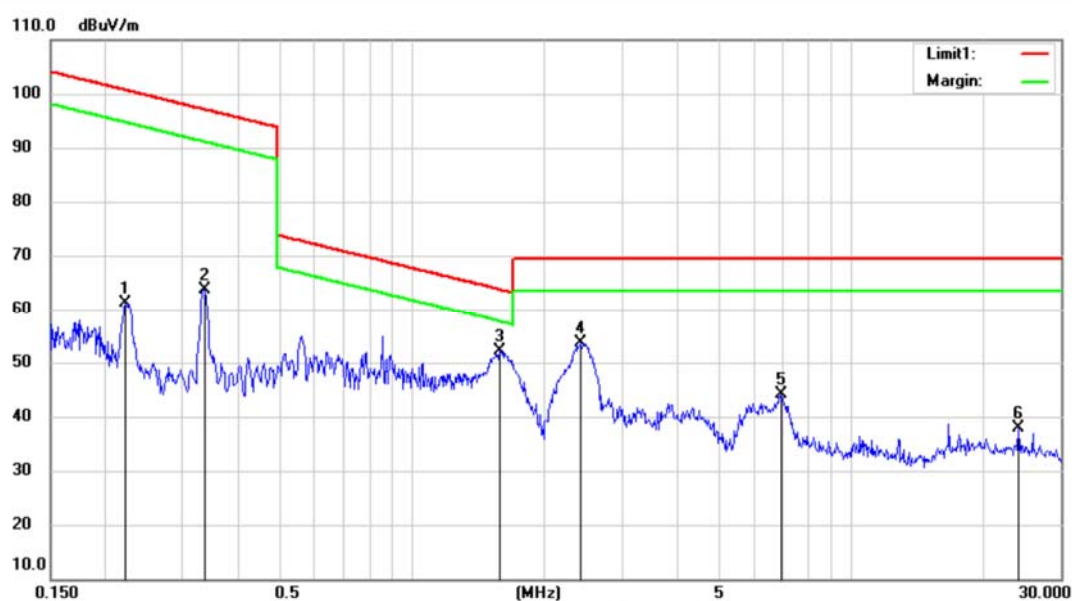
Power: AC 120V/60Hz

Humidity: 43 %

Mode: WPT 100%Load

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | |
|-----|-----|--------|---------|---------|----------|--------|--------|---------|--------|---------|
| | | MHz | Level | Factor | ment | | | Height | Degree | |
| | | | dBuV | dB | dBuV/m | dBuV/m | dB | cm | degree | Comment |
| 1 | | 0.2220 | 40.14 | 20.43 | 60.57 | 100.67 | -40.10 | peak | | |
| 2 | | 0.3356 | 44.09 | 20.66 | 64.75 | 97.09 | -32.34 | peak | | |
| 3 | | 0.5581 | 34.84 | 21.00 | 55.84 | 72.67 | -16.83 | peak | | |
| 4 | * | 1.5766 | 30.84 | 20.89 | 51.73 | 63.68 | -11.95 | peak | | |
| 5 | | 2.4218 | 32.36 | 20.74 | 53.10 | 69.50 | -16.40 | peak | | |
| 6 | | 6.9141 | 22.52 | 20.68 | 43.20 | 69.50 | -26.30 | peak | | |



Site 3m Chamber #1

Polarization: Z

Temperature: 28.1 C

Limit: (RE)FCC PART 15.209(9K-30M)

Power: AC 120V/60Hz

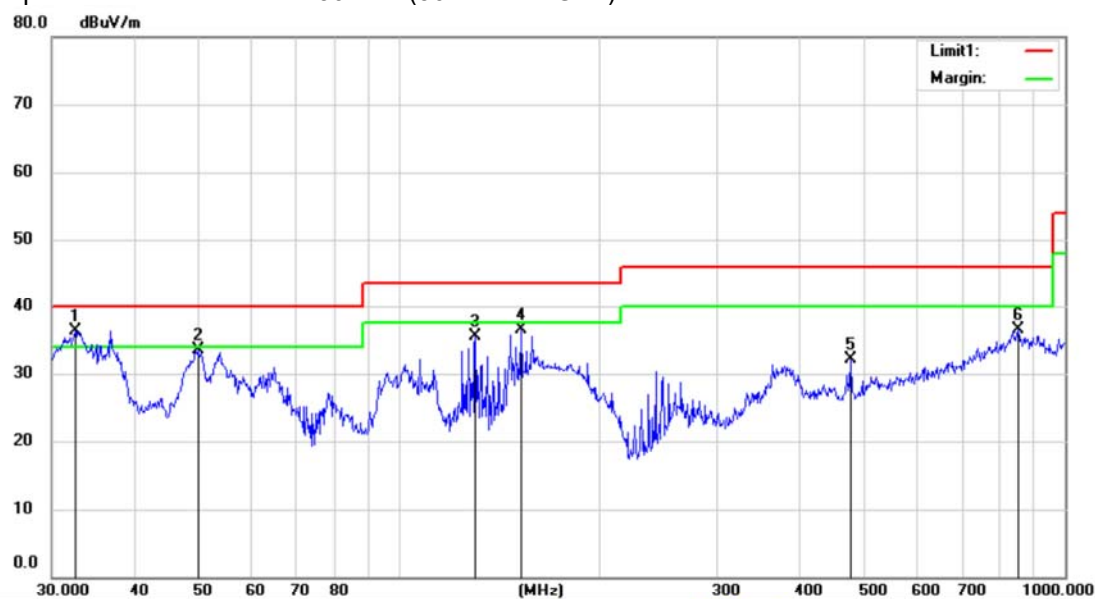
Humidity: 43 %

Mode: WPT 100%Load

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | |
|-----|-----|---------|---------|---------|----------|--------|--------|---------|--------|---------|
| | | MHz | Level | Factor | ment | | | Height | Degree | |
| | | | dBuV | dB | dBuV/m | dBuV/m | dB | cm | degree | Comment |
| 1 | | 0.2220 | 40.64 | 20.43 | 61.07 | 100.67 | -39.60 | peak | | |
| 2 | | 0.3356 | 43.09 | 20.66 | 63.75 | 97.09 | -33.34 | peak | | |
| 3 | * | 1.5766 | 31.34 | 20.89 | 52.23 | 63.68 | -11.45 | peak | | |
| 4 | | 2.4216 | 32.86 | 20.74 | 53.60 | 69.50 | -15.90 | peak | | |
| 5 | | 6.9141 | 23.52 | 20.68 | 44.20 | 69.50 | -25.30 | peak | | |
| 6 | | 24.0147 | 17.37 | 20.61 | 37.98 | 69.50 | -31.52 | peak | | |

■ Spurious Emission Above 30MHz (30MHz to 1GHz)



Site 3m Chamber #1

Polarization: **Vertical**

Temperature: 28.1 C

Limit: (RE)FCC PART 15 CLASS B

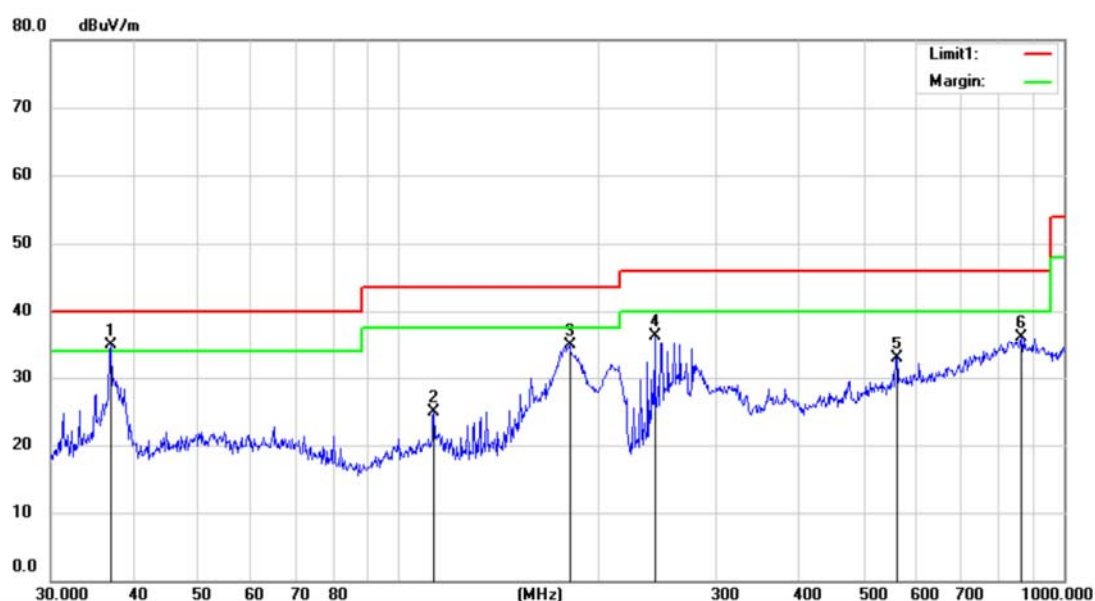
Power: AC 120V/60Hz

Humidity: 43 %

Mode: WPT 100%Load

Note:

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | |
|-----|-----|----------|---------|---------|----------|--------|--------|---------|--------|---------|
| | | MHz | Level | Factor | ment | | | Height | Degree | |
| | | | dBuV | dB | dBuV/m | dBuV/m | dB | cm | degree | Comment |
| 1 | * | 32.5626 | 45.96 | -9.64 | 36.32 | 40.00 | -3.68 | QP | | |
| 2 | | 49.8377 | 41.05 | -7.55 | 33.50 | 40.00 | -6.50 | QP | | |
| 3 | | 129.9226 | 45.64 | -10.23 | 35.41 | 43.50 | -8.09 | QP | | |
| 4 | | 152.5304 | 46.29 | -9.71 | 36.58 | 43.50 | -6.92 | QP | | |
| 5 | | 476.9603 | 33.85 | -1.79 | 32.06 | 46.00 | -13.94 | QP | | |
| 6 | | 851.0353 | 29.85 | 6.65 | 36.50 | 46.00 | -9.50 | QP | | |



Site 3m Chamber #1

Polarization: **Horizontal**

Temperature: 28.1 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 43 %

Mode:WPT 100%Load

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | cm | degree | Comment |
| 1 | * | 36.9115 | 43.81 | -8.84 | 34.97 | 40.00 | -5.03 | QP | | |
| 2 | | 112.9196 | 34.87 | -10.05 | 24.82 | 43.50 | -18.68 | QP | | |
| 3 | | 180.7280 | 44.74 | -9.81 | 34.93 | 43.50 | -8.57 | QP | | |
| 4 | | 242.8444 | 44.20 | -7.88 | 36.32 | 46.00 | -9.68 | QP | | |
| 5 | | 560.6928 | 32.91 | 0.06 | 32.97 | 46.00 | -13.03 | QP | | |
| 6 | | 864.1920 | 29.94 | 6.11 | 36.05 | 46.00 | -9.95 | QP | | |

7.3 CONDUCTED EMISSION TEST

7.3.1 Applicable Standard

According to FCC Part 15.207(a)

7.3.2 Conformance Limit

| Conducted Emission Limit | | |
|---|------------|---------|
| Frequency(MHz) | Quasi-peak | Average |
| 0.15-0.5 | 66-56 | 56-46 |
| 0.5-5.0 | 56 | 46 |
| 5.0-30.0 | 60 | 50 |
| Note: 1. The lower limit shall apply at the transition frequencies 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz. | | |

7.3.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

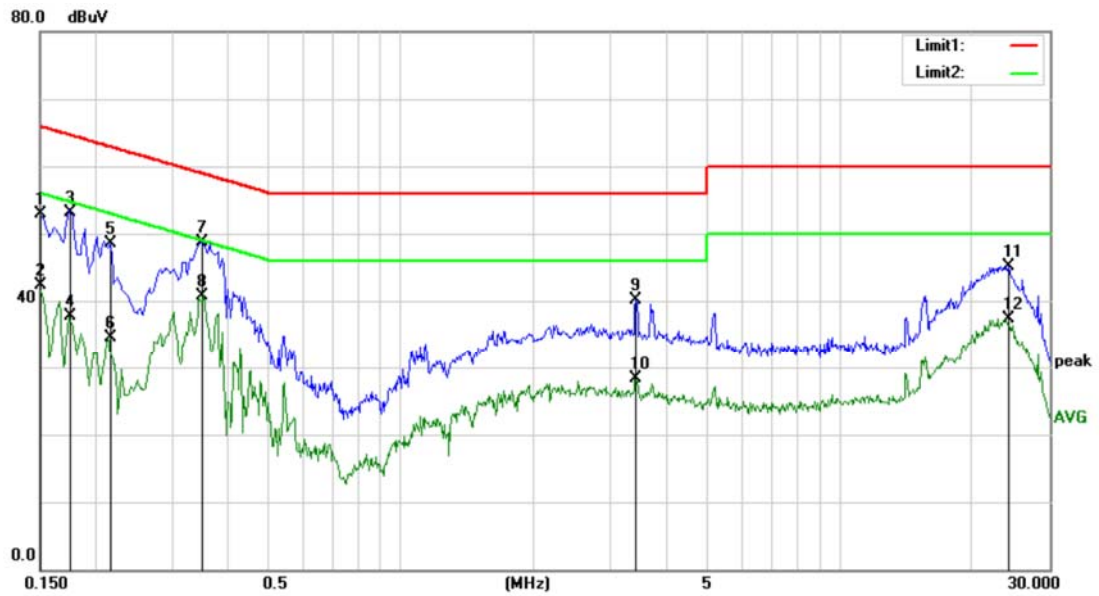
7.3.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

7.3.5 Test Results

Pass

The AC120V &240V voltage have been tested, and the worst result recorded was report as below:



Site Conduction #2

Phase: **L1**

Temperature: 25.1

Limit: (CE)FCC PART 15 class B_QP

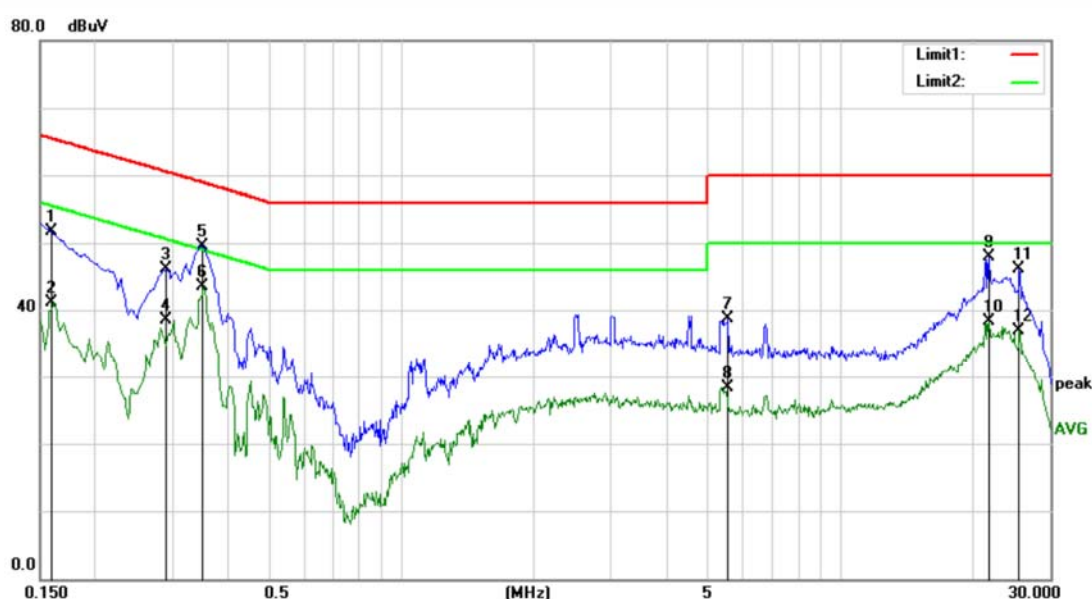
Power: AC 120V/60Hz

Humidity: 45 %

Mode:WPT 100%Load

Note:

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.1500 | 42.43 | 10.48 | 52.91 | 65.91 | -13.00 | QP | |
| 2 | | 0.1500 | 31.78 | 10.48 | 42.26 | 56.00 | -13.74 | AVG | |
| 3 | | 0.1758 | 42.68 | 10.46 | 53.14 | 64.61 | -11.47 | QP | |
| 4 | | 0.1758 | 27.18 | 10.46 | 37.64 | 54.68 | -17.04 | AVG | |
| 5 | | 0.2180 | 38.08 | 10.43 | 48.51 | 62.83 | -14.32 | QP | |
| 6 | | 0.2180 | 24.16 | 10.43 | 34.59 | 52.89 | -18.30 | AVG | |
| 7 | | 0.3520 | 38.23 | 10.38 | 48.61 | 58.89 | -10.28 | QP | |
| 8 | * | 0.3520 | 30.42 | 10.38 | 40.80 | 48.92 | -8.12 | AVG | |
| 9 | | 3.4180 | 29.65 | 10.40 | 40.05 | 56.00 | -15.95 | QP | |
| 10 | | 3.4180 | 17.81 | 10.40 | 28.21 | 46.00 | -17.79 | AVG | |
| 11 | | 24.2100 | 34.31 | 10.85 | 45.16 | 60.00 | -14.84 | QP | |
| 12 | | 24.2100 | 26.46 | 10.85 | 37.31 | 50.00 | -12.69 | AVG | |



Site Conduction #2

Phase: **N**

Temperature: 25.1

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 45 %

Mode: WPT 100%Load

Note:

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.1590 | 41.17 | 10.48 | 51.65 | 65.43 | -13.78 | QP | |
| 2 | | 0.1590 | 30.62 | 10.48 | 41.10 | 55.52 | -14.42 | AVG | |
| 3 | | 0.2900 | 35.75 | 10.40 | 46.15 | 60.48 | -14.33 | QP | |
| 4 | | 0.2900 | 28.17 | 10.40 | 38.57 | 50.52 | -11.95 | AVG | |
| 5 | | 0.3520 | 39.15 | 10.38 | 49.53 | 58.89 | -9.36 | QP | |
| 6 | * | 0.3520 | 33.09 | 10.38 | 43.47 | 48.92 | -5.45 | AVG | |
| 7 | | 5.5460 | 28.15 | 10.53 | 38.68 | 60.00 | -21.32 | QP | |
| 8 | | 5.5460 | 17.86 | 10.53 | 28.39 | 50.00 | -21.61 | AVG | |
| 9 | | 21.7780 | 37.06 | 10.79 | 47.85 | 60.00 | -12.15 | QP | |
| 10 | | 21.7780 | 27.56 | 10.79 | 38.35 | 50.00 | -11.65 | AVG | |
| 11 | | 25.5860 | 35.29 | 10.86 | 46.15 | 60.00 | -13.85 | QP | |
| 12 | | 25.5860 | 26.06 | 10.86 | 36.92 | 50.00 | -13.08 | AVG | |

8 ANTENNA APPLICATION

8.1.1 Antenna Requirement

| Standard | Requirement |
|---------------------|--|
| FCC CRF Part 15.203 | An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded. |

For intentional device, according to FCC 47 CFR Section 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. if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.1.2 Result

PASS.

- Note:
- ☒ Antenna use a permanently attached antenna which is not replaceable.
 - ☐ Not using a standard antenna jack or electrical connector for antenna replacement
 - ☐ The antenna has to be professionally installed (please provide method of installation)

Please refer to the attached document Internal Photos to show the antenna connector.

*** End of Report ***