

TEST REPORT

FCC Rules Part 15.231

Report Reference No......: **MTWG2208266-R**

FCC ID..... : **2A4VU-G600-8**

Compiled by

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Date of issue.....: **September 13, 2022**

Representative Laboratory Name .: **Shenzhen Most Technology Service Co., Ltd.**

Address: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,
Nanshan, Shenzhen, Guangdong, China.

Applicant's name.....: **iRest Health Science and Technology Co., Ltd.**

Address: No.468 Shibali East Road, Daqiao Town, Nanhu District,
Jiaxing, Zhejiang, China

Test specification/ Standard: **FCC CFR47 Part 15 Subpart C**

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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Test item description: **Spa Massage Chair**

Trade Mark: iRest

Manufacturer: iRest Health Science and Technology Co., Ltd.

Model/Type reference.....: G600-8

Listed Models: G509,G530,G510-3,G505-2,G505-5,9660-X,
NS 769,NS 769 VX,G503,G503-X,G505-X,G510-3X

Modulation Type: Induction

Operation Frequency.....: 110-205KHz

Rating: Input:110-120V AC,60Hz,70W
Crest wireless charger Output:5W

Hardware Version: V0.0

Software Version: V0.0

Result.....: **PASS**

TEST REPORT

Equipment under Test : Spa Massage Chair

Model /Type : G600-8

Listed Models : G509, G530, G510-3, G505-2, G505-5, 9660-X,
NS 769,NS 769 VX,G503,G503-X,G505-X,G510-3X

Remark : only difference is the appearance, and the wireless part has no
difference.

Applicant : iRest Health Science and Technology Co., Ltd.

Address : No.468 Shibali East Road, Daqiao Town, Nanhu District,
Jiaxing, Zhejiang, China.

Manufacturer : iRest Health Science and Technology Co., Ltd.

Address : No.468 Shibali East Road, Daqiao Town, Nanhu District,
Jiaxing, Zhejiang, China.

| | |
|---------------------|-------------|
| Test Result: | PASS |
|---------------------|-------------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. Revision History

| Revision | Issue Date | Revisions | Revised By |
|----------|------------|---------------|------------|
| 00 | 2022.09.13 | Initial Issue | Alisa Luo |
| | | | |
| | | | |

2. TEST STANDARDS

The tests were performed according to following standards:

The tests were performed according to following standards:

[ANSI C63.10:2013](#) : American National Standard for Testing Unlicensed Wireless Devices

3. SUMMARY

3.1. General Remarks

| | | |
|--------------------------------|---|------------|
| Date of receipt of test sample | : | 2022.08.24 |
| Testing commenced on | : | 2022.08.25 |
| Testing concluded on | : | 2022.09.09 |

3.2. Product Description

| | |
|-----------------------|-------------------|
| Product Name: | Spa Massage Chair |
| Model/Type reference: | G600-8 |
| Power Supply: | AC120V/60Hz |
| Testing sample ID: | MT22080303 |
| Modulation: | Induction |
| Operation frequency: | 110-205KHz |
| Antenna type: | Coil Antenna |
| Antenna gain: | 0 dBi |

3.3. Equipment Under Test

Power supply system utilised

| | | | |
|----------------------|---|--|--|
| Power supply voltage | : | <input type="radio"/> 230V / 50 Hz | <input checked="" type="radio"/> 120V / 60Hz |
| | | <input type="radio"/> 12 V DC | <input type="radio"/> 24 V DC |
| | | <input type="radio"/> Other (specified in blank below) | |

3.4. Short description of the Equipment under Test (EUT)

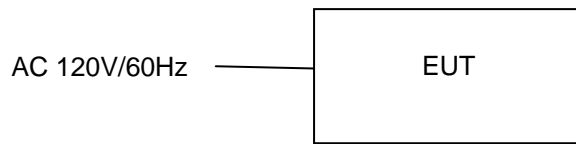
This is a Portable luminaire For more details, refer to the user's manual of the EUT.

3.5. EUT operation mode

| Test Item | Test Modes | Test Voltage |
|--------------------|------------|--------------|
| Conducted Emission | No Load | AC 120V/60Hz |
| | Half Load | AC 120V/60Hz |
| | Full load | AC 120V/60Hz |
| Radiated Emission | No Load | AC 120V/60Hz |
| | Half Load | AC 120V/60Hz |
| | Full load | AC 120V/60Hz |

Note: The mode is a was the worst case and only the data of the worst case record in this report.

3.6. Block Diagram of Test Setup



3.7. Test Item (Equipment Under Test) Description*

| Short designation | EUT Name | EUT Description | Serial number | Hardware status | Software status |
|-------------------|----------|-----------------|---------------|-----------------|-----------------|
| EUT A | / | / | / | / | / |
| EUT B | / | / | / | / | / |
| | | | | | |

*: declared by the applicant. According to customers information EUTs A and B are the same devices.

3.8. Auxiliary Equipment (AE) Description

| AE short designation | EUT Name (if available) | EUT Description | Serial number (if available) | Software (if used) |
|----------------------|-------------------------|-----------------|------------------------------|--------------------|
| AE 1 | - | / | / | / |
| AE 2 | - | / | / | / |

3.9. Antenna Information*

| Short designation | Antenna Name | Antenna Type | Frequency Range | Serial number | Antenna Peak Gain |
|-------------------|--------------|--------------|-----------------|---------------|-------------------|
| Antenna 1 | --- | / | / | --- | / |
| | | | | | |
| | | | | | |

*: declared by the applicant.

3.10. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

○ - supplied by the manufacturer

● - Supplied by the lab

| | | |
|-----------|---------------|--|
| ○ ADAPTER | M/N: | |
| | Manufacturer: | |

3.11. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.
The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

Test Facility

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

FCC-Registration No.: 0031192610

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

A2LA-Lab Cert. No.: 6343.01

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

4.2. Environmental conditions

Radiated Emission:

| | |
|-----------------------|--------------|
| Temperature: | 23 ° C |
| | |
| Humidity: | 48 % |
| | |
| Atmospheric pressure: | 950-1050mbar |

Conducted testing:

| | |
|-----------------------|--------------|
| Temperature: | 24 ° C |
| | |
| Humidity: | 45 % |
| | |
| Atmospheric pressure: | 950-1050mbar |

4.3. Test Description

| FCC and IC Requirements | | |
|-------------------------|--|------|
| FCC Part 15.203 | Antenna Requirement | PASS |
| FCC Part 15.207 | AC Power Conducted Emission | PASS |
| FCC Part 15.209 | Radiated emission; Radiated Spurious Emissions | PASS |
| FCC Part 15.215 | 20dB Occupied Bandwidth | PASS |

Remark:

1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Most Technology Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Most Technology Service Co., Ltd. is reported:

| Test | Range | Measurement Uncertainty | Notes |
|-----------------------|------------|-------------------------|-------|
| Radiated Emission | 30~1000MHz | 4.10 dB | (1) |
| Radiated Emission | 1~18GHz | 4.32 dB | (1) |
| Radiated Emission | 18-40GHz | 5.54 dB | (1) |
| Conducted Disturbance | 0.15~30MHz | 3.12 dB | (1) |

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

4.5. Equipments Used during the Test

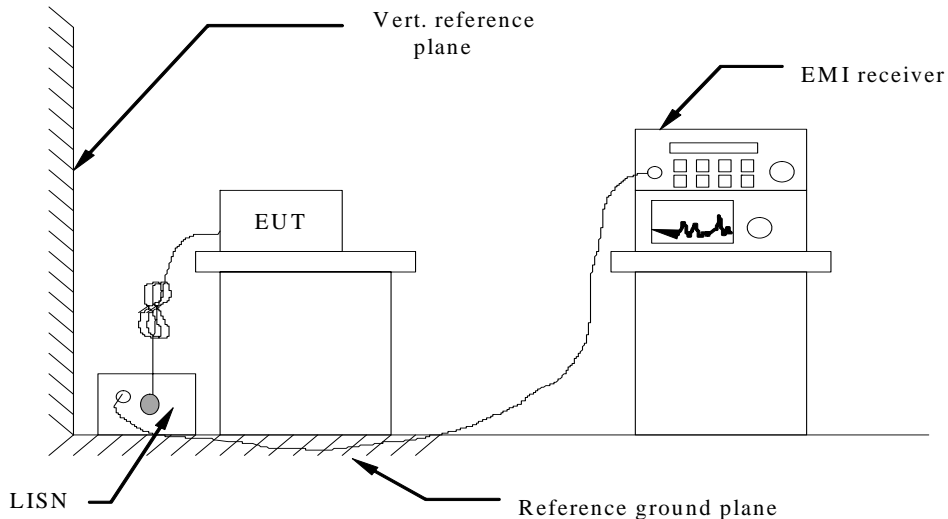
| Item | Equipment | Manufacturer | Model No. | Serial No. | Firmware versions | Last Cal. | Cal. Interval |
|------|--------------------------------------|------------------|-----------------|------------|-------------------|------------|---------------|
| 1. | L.I.S.N. | R&S | ENV216 | 100093 | / | 2022/04/19 | 1 Year |
| 2 | Three-phase artificial power network | Schwarzback Mess | NNLK8129 | 8129178 | / | 2022/04/19 | 1 Year |
| 3. | Receiver | R&S | ESCI | 100492 | V3.0-10-2 | 2022/04/06 | 1 Year |
| 4 | Receiver | R&S | ESPI | 101202 | V3.0-10-2 | 2022/04/06 | 1 Year |
| 5 | Spectrum analyzer | Agilent | 9020A | MT-E306 | A14.16 | 2022/04/06 | 1 Year |
| 6 | Bilong Antenna | Sunol Sciences | JB3 | A121206 | / | 2022/03/13 | 1 Year |
| 7 | Horn antenna | HF Antenna | HF Antenna | MT-E158 | / | 2022/04/06 | 1 Year |
| 8 | Loop antenna | Beijing Daze | ZN30900B | / | / | 2022/04/16 | 1 Year |
| 9 | Horn antenna | R&S | OBH100400 | 26999002 | / | 2022/04/16 | 1 Year |
| 10 | Wireless Communication Test Set | R&S | CMW500 | / | CMW-BASE-3.7.21 | 2022/04/15 | 1 Year |
| 11 | Spectrum analyzer | R&S | FSP | 100019 | V4.40 SP2 | 2022/04/15 | 1 Year |
| 12 | High gain antenna | Schwarzbeck | LB-180400KF | MT-E389 | / | 2022/03/13 | 1 Year |
| 13 | Preamplifier | Schwarzbeck | BBV 9743 | MT-E390 | / | 2022/03/13 | 1 Year |
| 14 | Pre-amplifier | EMCI | EMC051845S E | MT-E391 | / | 2022/03/13 | 1 Year |
| 15 | Pre-amplifier | Agilent | 83051A | MT-E392 | / | 2022/03/13 | 1 Year |
| 16 | High pass filter unit | Tonscend | JS0806-F | MT-E393 | / | 2022/03/13 | 1 Year |
| 17 | RF Cable(below1GHz) | Times | 9kHz-1GHz | MT-E394 | / | 2022/03/13 | 1 Year |
| 18 | RF Cable(above 1GHz) | Times | 1-40G | MT-E395 | / | 2022/03/13 | 1 Year |
| 19 | RF Cable (9KHz-40GHz) | Tonscend | 170660 | N/A | / | 2022/03/13 | 1 Year |

Note: The Cal.Interval was one year.

5. TEST CONDITIONS AND RESULTS

5.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received DC5V power, the adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For unintentional device, according to RSS Gen 8.8 and § 15.207(a) Line Conducted Emission Limits is as following:

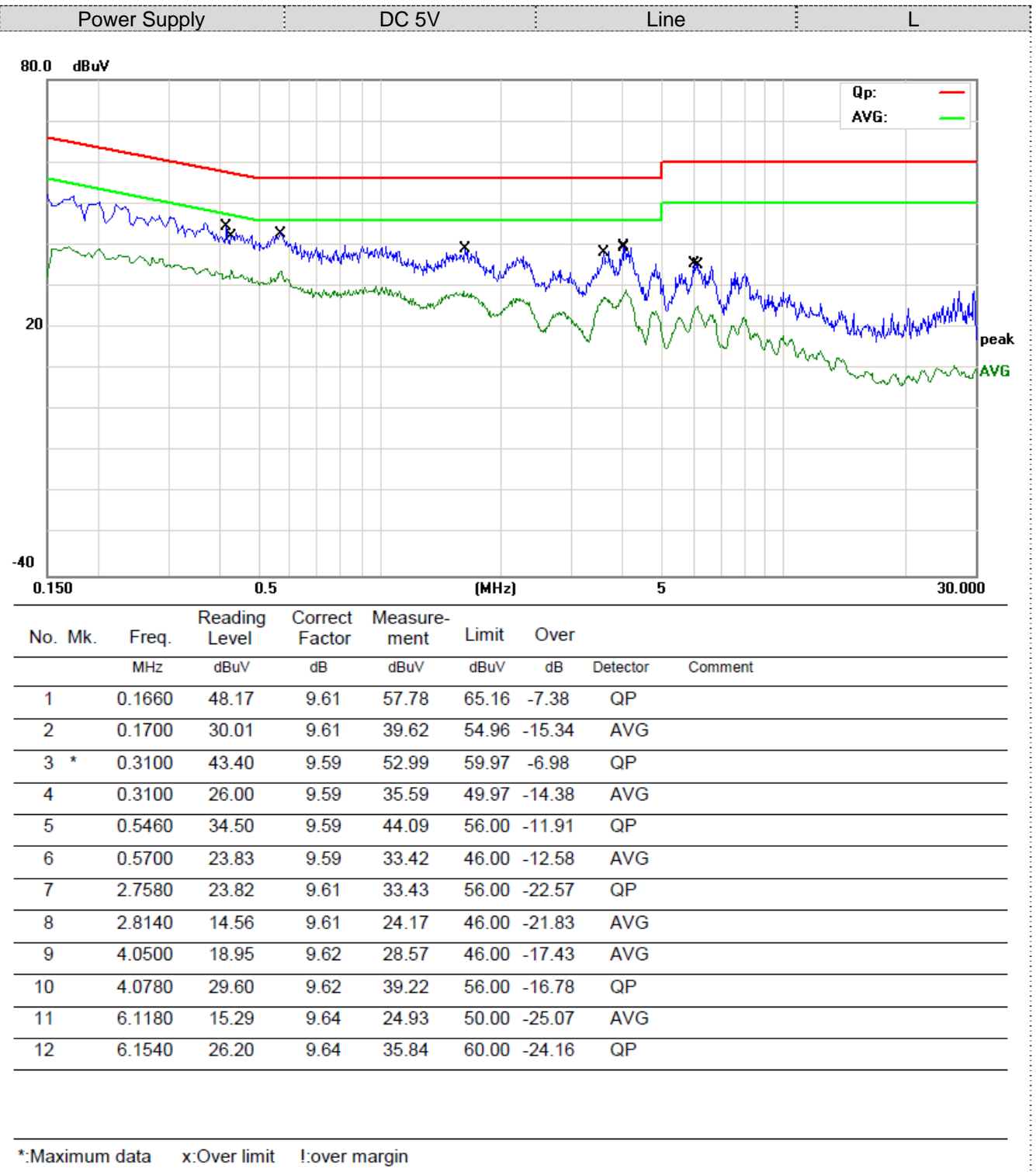
| Frequency range (MHz) | Limit (dBuV) | |
|-----------------------|--------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

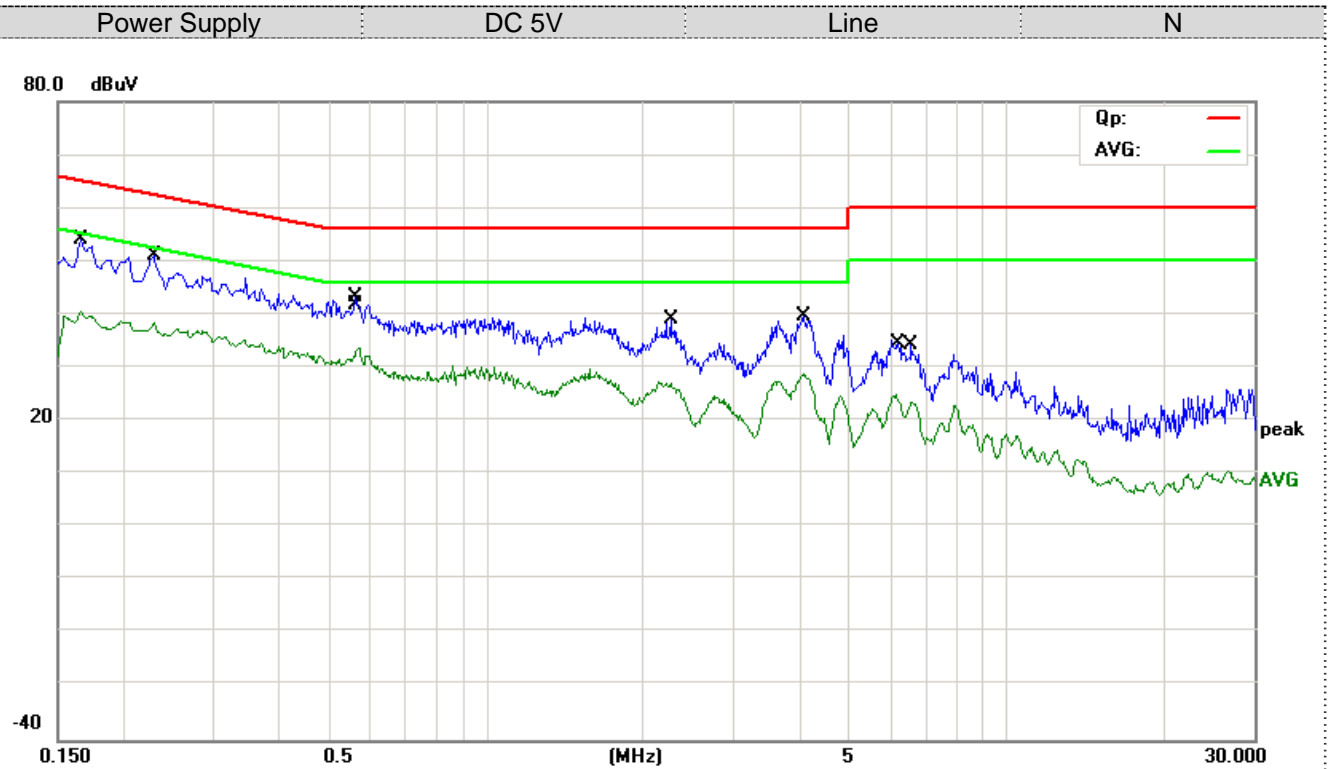
* Decreases with the logarithm of the frequency.

TEST RESULTS

Pass

(Test mode:Full mode)





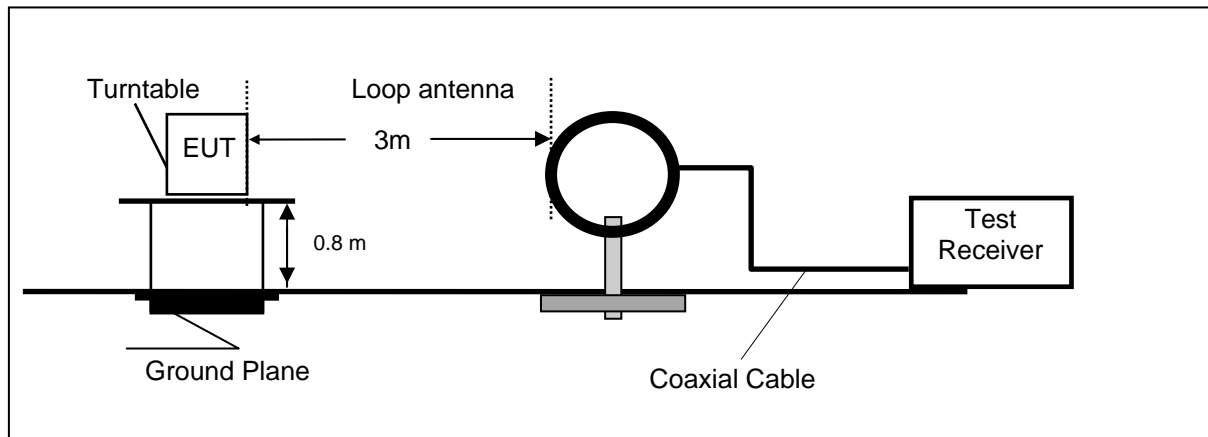
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | * | 0.1660 | 44.43 | 9.61 | 54.04 | 65.16 | -11.12 | QP | |
| 2 | | 0.1660 | 30.82 | 9.61 | 40.43 | 55.16 | -14.73 | AVG | |
| 3 | | 0.2300 | 41.37 | 9.60 | 50.97 | 62.45 | -11.48 | QP | |
| 4 | | 0.2300 | 28.77 | 9.60 | 38.37 | 52.45 | -14.08 | AVG | |
| 5 | | 0.5620 | 33.81 | 9.59 | 43.40 | 56.00 | -12.60 | QP | |
| 6 | | 0.5700 | 24.08 | 9.59 | 33.67 | 46.00 | -12.33 | AVG | |
| 7 | | 2.2660 | 29.45 | 9.61 | 39.06 | 56.00 | -16.94 | QP | |
| 8 | | 2.2660 | 17.59 | 9.61 | 27.20 | 46.00 | -18.80 | AVG | |
| 9 | | 4.0780 | 30.01 | 9.62 | 39.63 | 56.00 | -16.37 | QP | |
| 10 | | 4.0780 | 19.10 | 9.62 | 28.72 | 46.00 | -17.28 | AVG | |
| 11 | | 6.1260 | 15.23 | 9.64 | 24.87 | 50.00 | -25.13 | AVG | |
| 12 | | 6.5900 | 24.70 | 9.65 | 34.35 | 60.00 | -25.65 | QP | |

*:Maximum data x:Over limit !:over margin

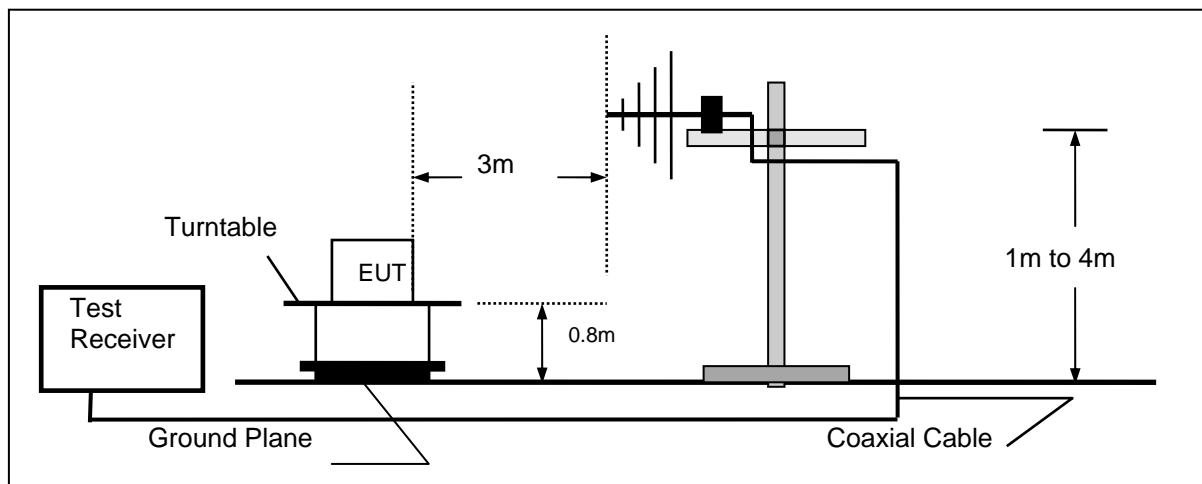
5.2. Radiated Emission

TEST CONFIGURATION

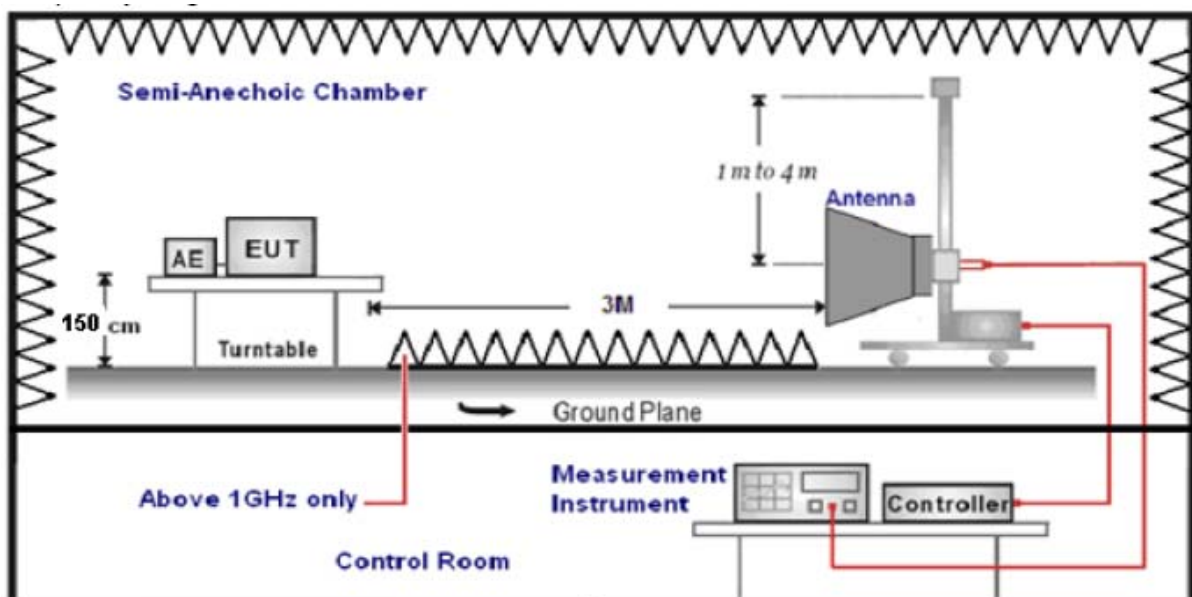
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. The EUT minimum operation frequency was 32.768KHz and maximum operation frequency was 2480MHz.so radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

| Test Frequency range | Test Antenna Type | Test Distance |
|----------------------|----------------------------|---------------|
| 9KHz-30MHz | Active Loop Antenna | 3 |
| 30MHz-1GHz | Ultra-Broadband Antenna | 3 |
| 1GHz-18GHz | Double Ridged Horn Antenna | 3 |
| 18GHz-25GHz | Horn Antenna | 1 |

7. Setting test receiver/spectrum as following table states:

| Test Frequency range | Test Receiver/Spectrum Setting | Detector |
|----------------------|---|----------|
| 9KHz-150KHz | RBW=200Hz/VBW=3KHz, Sweep time=Auto | QP |
| 150KHz-30MHz | RBW=9KHz/VBW=100KHz, Sweep time=Auto | QP |
| 30MHz-1GHz | RBW=120KHz/VBW=1000KHz, Sweep time=Auto | QP |
| 1GHz-40GHz | Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto | Peak |

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

| | |
|---------------------------|--|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude | AG = Amplifier Gain |
| AF = Antenna Factor | |

$$\text{Transd}=AF +CL-AG$$

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission

Unwanted emissions that fall into restricted bands shall comply with the limits specified in RSS-Gen; and Unwanted emissions that do not fall within the restricted frequency bands shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

| Frequency (MHz) | Distance (Meters) | Radiated (dB μ V/m) | Radiated (μ V/m) |
|-----------------|-------------------|--|-----------------------|
| 0.009-0.49 | 3 | $20\log(2400/F(\text{KHz}))+40\log(300/3)$ | $2400/F(\text{KHz})$ |
| 0.49-1.705 | 3 | $20\log(24000/F(\text{KHz}))+40\log(30/3)$ | $24000/F(\text{KHz})$ |
| 1.705-30 | 3 | $20\log(30)+40\log(30/3)$ | 30 |
| 30-88 | 3 | 40.0 | 100 |
| 88-216 | 3 | 43.5 | 150 |
| 216-960 | 3 | 46.0 | 200 |
| Above 960 | 3 | 54.0 | 500 |

Radiated Emissions**Below 9K~30MHz**

(Test mode:Full mode)

| Frequency | Polarization | Reading | Factor | Result | Limits Average | Margin | PASS/FAIL |
|-----------|--------------|---------|--------|----------|-------------------|--------|-----------|
| (kHz) | | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 121.0 | Face | 68.03 | 20.55 | 88.58 | 106.02 | 17.46 | PASS |
| 121.0 | Side | 65.44 | 20.55 | 85.99 | 106.02 | 20.07 | PASS |

Remark:

Frequency(MHz) = Emission frequency in MHz

Reading(dB μ V) = Uncorrected Analyzer/Receiver reading

Factor (dB/m)= Antenna factor + Cable Loss – Amplifier gain

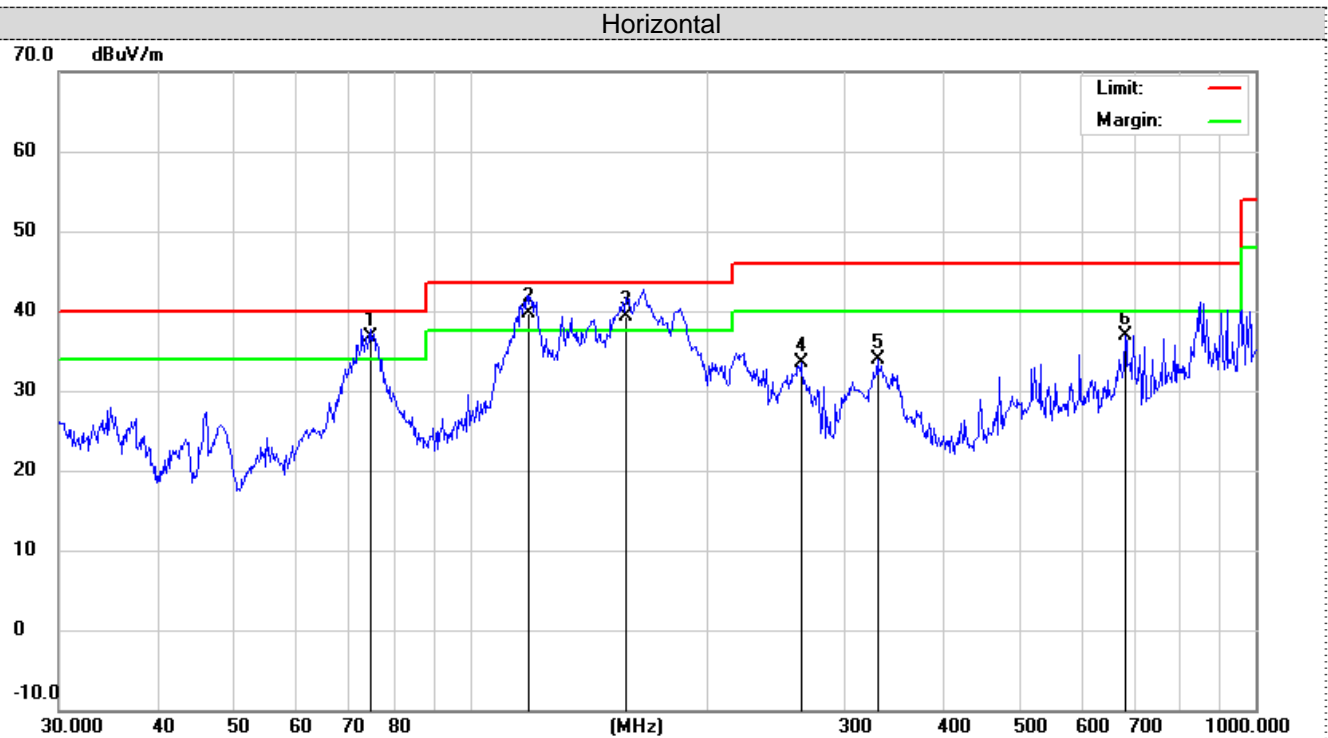
Result(dB μ V/m) = Reading + FactorLimit (dB μ V/m)= Limit stated in standard.

Note: No other emissions found between lowest internal used/generates frequencies to 30MHz. The peak level of the emission is less than the average limit, so the average level shall be less than the limit without test.

Radiated Emissions

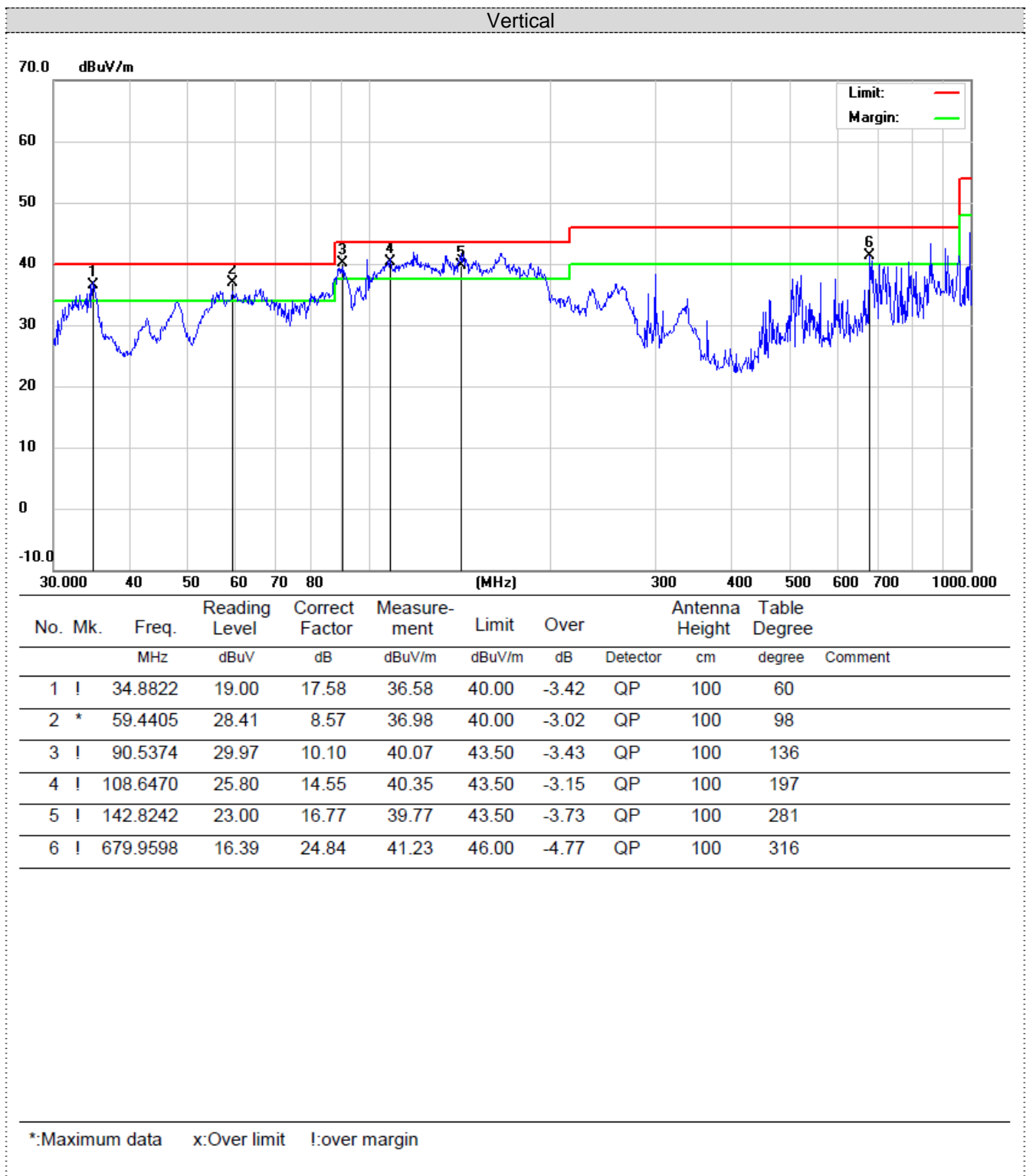
For 30MHz-1GHz

(Test mode:Full mode/DC 5V,3A)



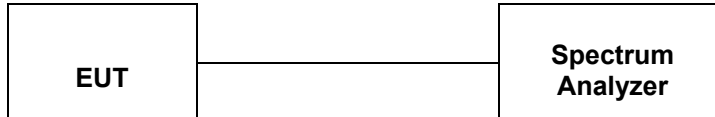
| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Antenna | Table | |
|-----|-----|----------|---------|---------|----------|--------|--------|---------|--------|---------|
| | | MHz | Level | Factor | ment | | | Height | Degree | Comment |
| | | | dBuV | dB | dBuV/m | dBuV/m | dB | cm | degree | |
| 1 | * | 74.6568 | 27.00 | 9.67 | 36.67 | 40.00 | -3.33 | QP | 200 | 195 |
| 2 | ! | 118.6013 | 24.00 | 15.65 | 39.65 | 43.50 | -3.85 | QP | 200 | 235 |
| 3 | ! | 158.1123 | 21.90 | 17.38 | 39.28 | 43.50 | -4.22 | QP | 200 | 297 |
| 4 | | 263.8190 | 19.16 | 14.27 | 33.43 | 46.00 | -12.57 | QP | 200 | 43 |
| 5 | | 330.1949 | 17.77 | 16.07 | 33.84 | 46.00 | -12.16 | QP | 200 | 91 |
| 6 | | 682.3484 | 12.11 | 24.87 | 36.98 | 46.00 | -9.02 | QP | 200 | 143 |

*:Maximum data x:Over limit !:over margin



5.3. 20dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

The 20dB bandwidth and 99% bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

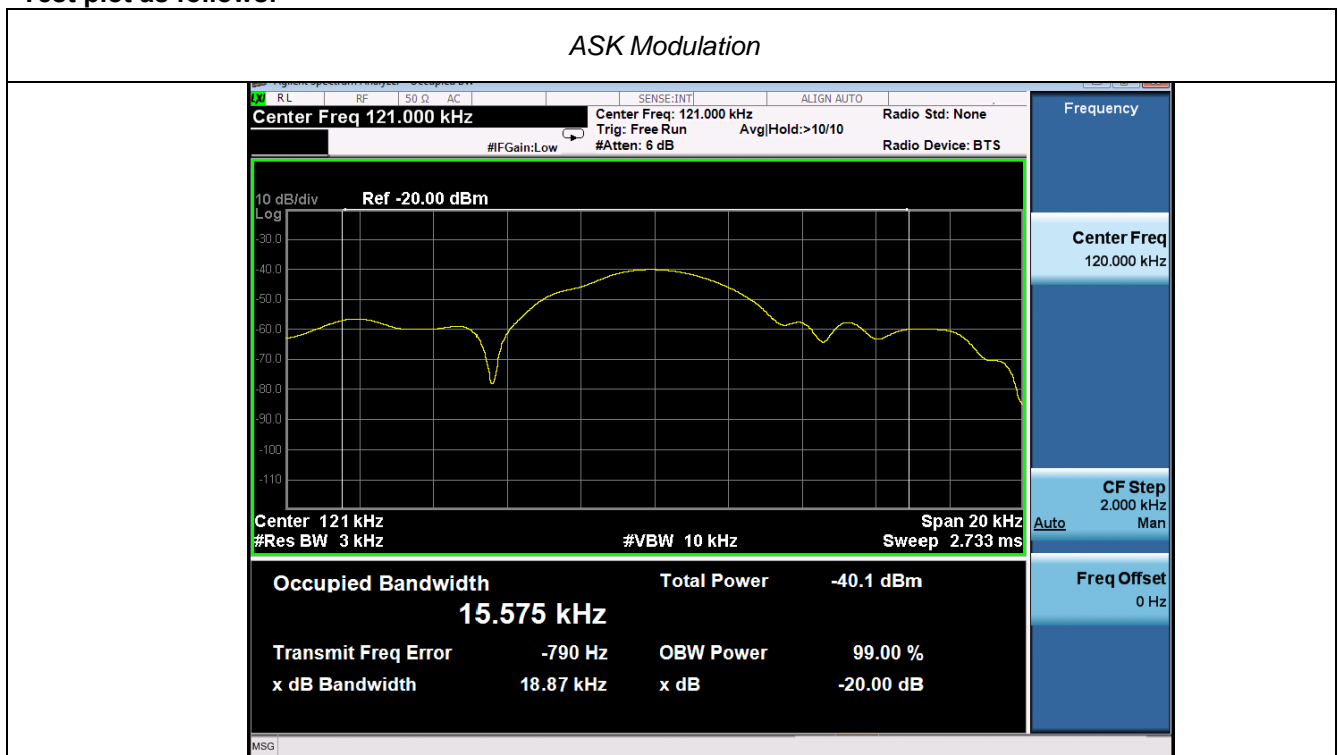
The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

The occupied bandwidth (OBW), that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission

TEST RESULTS

| Test Frequency (KHz) | 20dB bandwidth (KHz) | Result |
|----------------------|----------------------|--------|
| 121 | 18.87 | Pass |

Test plot as follows:



5.4. Antenna Requirement

Standard Applicable

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.

Antenna Connected Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203 and RSS-Gen Section 6.8.

6. Test Setup Photos of the EUT



7. External and Internal Photos of the EUT

See related photo report.

.....**End of Report**.....