Certificate Number: 2861.01

# TEST REPORT

| | | | |
|---|---|---|---|
| **Report No.:** | **E20190815286701-1** | **Application No.:** | **E20190815286701** |
| **Applicant:** | Eggplant Technologies Limited | | |
| **Address:** | Flat/Rm 1903 19/F, Lee Garden One,33 Hysan Avenue, Causeway Bay | | |
| **Sample Description:** | Move It Speed | | |
| **Model:** | MVPB0010 | | |
| **Adding Model:** | MVPB0001、MVPB0002、MVPB0003、MVPB0004、MVPB0005、MVPB0006、MVPB0007、MVPB0008、MVPB0009、MVPB0011、MVPB0012、MVPB0013、MVPB0014、MVPB0015、MVPB0016、MVPB0017、MVPB0018、MVPB0019、MVPB0111、MVPB0112、MVPB0113、MVPB0114、MVPB0115、MVPB0116、MVPB0117、MVPB0118、MVPB0119、MVPB0211、MVPB0212、MVPB0213、MVPB0214、MVPB0215、MVPB0216、MVPB0217、MVPB0218、MVPB0219、MVSS1000 | | |
| **FCC ID:** | 2AKDVMVPBXX0010 | | |
| **Test Specification:** | FCC 47 CFR Part 15 Subpart C | | |
| **Test Date:** | 2019-08-23 to 2019-09-17 | | |
| **Issue Date:** | 2019-10-15 | | |
| **Test Result:** | **PASS** | | |

| **Prepared By:** | **Reviewed By:** | **Approved By:** |
|---|---|---|
| Darry Wu / Test Engineer | Jimmy Xie / TechnicalManager | Ryan Zhu / Manager |
| Date:2019-10-15 | Date:2019-10-15 | Date:2019-10-15 |

**Other Aspects:**

/

**Abbreviations:** *ok / P = passed; fail / F = failed; n.a. / N = not applicable*

# DIRECTIONS OF TEST

1. This company carries out test task according to the national regulation of verifications which can be traced to National Primary Standards and BIPM.

2. 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.

3. If there is any objection concerning the test, the client should inform the laboratory within 15 days from the date of receiving the test report.

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# 1. TEST RESULT SUMMARY

| FCC 47 CFR Part 15 Subpart C:15.247 | | | |
|---|---|---|---|
| **Standard** | **Item** | **Limit / Severity** | **Result** |
| FCC Part 15,Subpart C (15.247) | Antenna Requirement | §15.203 | PASS |
| | Conducted Emissions | §15.207 (a) | PASS |
| | Radiated Spurious Emission | §15.247(d) | PASS |
| | 6 dB Bandwidth | §15.247 (a)(2) | PASS |
| | Maximum Peak Output Power | §15.247(b)(3) | PASS |
| | Power Spectral Density | §15.247(e) | PASS |
| | Conducted band edges and Spurious Emission | §15.247(d) | PASS |
| | Restricted bands of operation | §15.205 | PASS |

# 2. GENERAL DESCRIPTION OF EUT

## 2.1. APPLICANT

| | |
|---|---|
| Name: | Guangzhou Eggplant Software Technologies Co. ,Ltd. |
| Address: | A1 Room 509~513,Yi He Mansion, No.411 Shou Gou Ling Road,Tian He District,Guangzhou,China |

## 2.2. MANUFACTURER

| | |
|---|---|
| Name: | Guangzhou Eggplant Software Technologies Co., Ltd |
| Address: | A1 Room 509~513, Yi He Mansion, No.411 Shou Gou Ling Road, Tian He District, Guangzhou |

## 2.3. FACTORY

Factory 1

| | |
|---|---|
| Name : | Guangzhou Eggplant Software Technologies Co. ,Ltd. |
| Address : | A1 Room 509~513,Yi He Mansion, No.411 Shou Gou Ling Road,Tian He District,Guangzhou,China |

## 2.4. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

| | |
|---|---|
| Equipment: | Move It Speed |
| Model No.: | MVPB0010 |
| Adding Model: | MVPB0001、MVPB0002、MVPB0003、MVPB0004、MVPB0005、MVPB0006、MVPB0007、MVPB0008、MVPB0009、MVPB0011、MVPB0012、MVPB0013、MVPB0014、MVPB0015、MVPB0016、MVPB0017、MVPB0018、MVPB0019、MVPB0111、MVPB0112、MVPB0113、MVPB0114、MVPB0115、MVPB0116、MVPB0117、MVPB0118、MVPB0119、MVPB0211、MVPB0212、MVPB0213、MVPB0214、MVPB0215、MVPB0216、MVPB0217、MVPB0218、MVPB0219、MVSS1000 |
| Model Discrepancy: | MV = Move It (Brand)<br>PB = Punch Bag (Product Category)<br>0 = Product Number (from 0-9)<br>0 = Version of hardware revision/refinement (from 0-9)<br>1 = Designation for features (from 0-9)<br>0 = Designation for product bundles (from 0-9)<br>SS for smart sensor<br><br>All model number listed in Appendix C uses the same smart sensor module (designated as MVSS1000) as MVPB0010.With minor differences in exterior design and included accessories. The first four letters and the first number digit of the 8 digit model number (MVPB0 __ __ __) with always remain the same, where the ending 3 digits of the product series will increase in value depending on its revision ,cosmetic or feature version, and the type of accessory bundle. |

| | |
|---|---|
| | As an example, MVPB0010 is the first model designated for the overseas international market, and MVPB0001 is another model designated for the China market. Comparing model MVPB0010 with MVPB0001, the difference in MVPB0010, is in the color of the exterior design (using gold & black instead of red & black), the addition of a rebound speed adjustment cap located at the spring, and a more padded version for the glove accessory.<br><br>Essentially, minor variations between model numbers are created to better cater for the different regional demands. |
| Trade Name: | move it |
| Power supply: | AC120V/60Hz |
| Frequency Range: | 2402 ~ 2480 MHz |
| Transmit Power: | -0.72dBm |
| Modulation type: | GFSK for 1Mbps |
| Channel space: | 2MHz |
| Antenna Specification: | PCB Antenna with 0dBi gain(Max) |
| Temperature Range: | -10℃~+60℃ |
| Hardware Version: | Version:V2.0 |
| Software Version: | Version:V2.0.1 |

## 2.5. TEST OPERATION MODE

| Test Item | Mode No. | Description of the modes |
|---|---|---|
| Conducted Emission | 1 | Bluetooth BLE Fixed Frequency GFSK |
| Radiated Emission | 1 | Continuously Transmitting |

## 2.6. LOCAL SUPPORTIVE

| Name of Equipment | Manufacturer | Model | Serial Number | Note |
|---|---|---|---|---|
| Notebook | LENOVO | TianYi 310-14ISK | MP18DLC6 | / |
| Adapter | LENOVO | ADLX65NVV3A | SA10M42747 | / |
| **Cable** | | | | |
| AC Cable | / | / | / | Unshielded:1.00m |
| DC Cable | / | / | / | Shielded:1.80m |

Test software:

| Software version | Test level |
|---|---|
| BTOOL | 40 |

# 3. LABORATORY AND ACCREDITATIONS

## 3.1. LABORATORY

The tests and measurements refer to this report were performed by EMC Laboratory of GRG METROLOGY & TEST (SHENZHEN) CO., LTD

Add. : No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District Shenzhen, 518110, People's Republic of China

Telephone : +86-755-61180008

Fax : /

## 3.2. ACCREDITATIONS

| | |
|---|---|
| A2LA | Certificate Number 2861.01 |

## 3.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement | | Frequency | Uncertainty |
|---|---|---|---|
| Radiated Emission | Horizontal | 30MHz～1000MHz | 4.3dB |
| | | 1GHz～18GHz | 5.6dB |
| | Vertical | 30MHz～1000MHz | 4.3dB |
| | | 1GHz～18GHz | 5.6dB |
| Conducted Emission | | 9kHz～30MHz | 2.6dB |

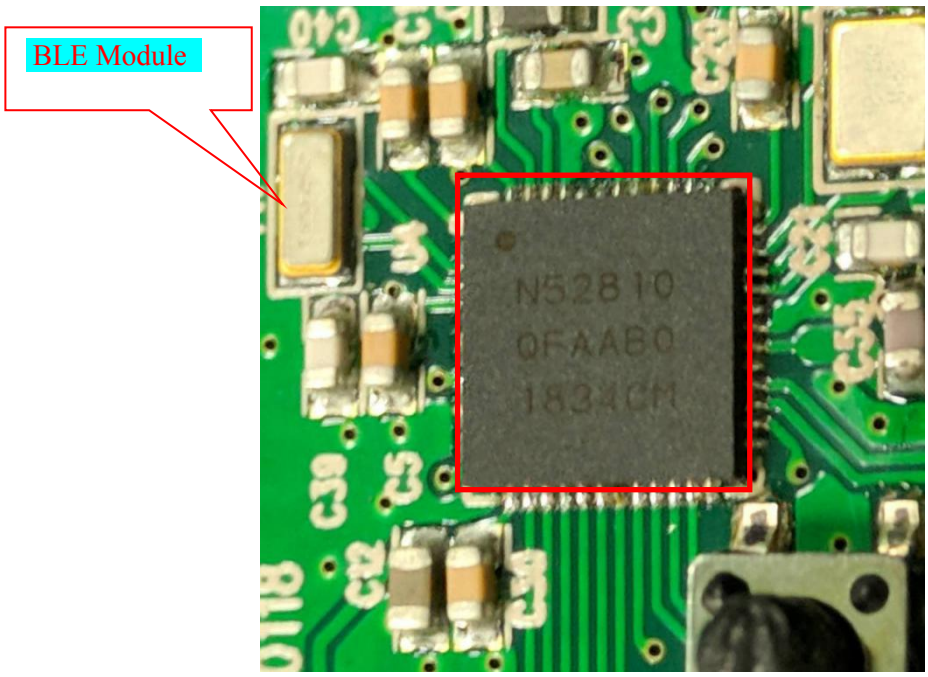
This uncertainty represents an expanded uncertainty factor of $k$=2.

# 4. LIST OF USED TEST EQUIPMENT AT GRGT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|---|---|---|---|---|
| **Conducted Emissions** | | | | |
| EMI TEST Receiver | ROHDE&SCHWARZ | ESCI | 100783 | 2020-01-09 |
| **Radiated Spurious Emission&Restricted bands of operation** | | | | |
| Spectrum analyser | Agilent | N9010A | MY52221469 | 2020-01-10 |
| Power Meter | Anritsu | ML2495A | 1204003 | 2020-04-24 |
| Bilog Antenna | Schwarzbeck | VULB9160 | 9160-3401 | 2019-12-21 |
| Horn Antenna | Schwarzbeck | BBHA9120 | D286 | 2019-12-21 |
| Amplifier | EM Electronics Corporation | EM330 | 060661 | 2019-12-21 |
| High Noise Amplifier | Agilent | 8449B | 3008A02060 | 2019-12-21 |
| **6 dB Bandwidth** | | | | |
| EXA signal analyzer | Agilent | N9010A | MY52221469 | 2020-01-10 |
| **Maximum Peak Output Power** | | | | |
| EXA signal analyzer | Agilent | N9010A | MY52221469 | 2020-01-10 |
| **Conducted band edges and Spurious Emission** | | | | |
| EXA signal analyzer | Agilent | N9010A | MY52221469 | 2020-01-10 |
| **Power Spectral Density** | | | | |
| EXA signal analyzer | Agilent | N9010A | MY52221469 | 2020-01-10 |

# 5. ANTENNA REQUIREMENT

The EUT has one antenna. The antenna is PCB antenna.
The max gain of antenna is 0dBi .which accordance 15.203.is considered sufficient to comply with the provisions of this section



# 6. CONDUCTED EMISSION MEASUREMENT

## 6.1. LIMITS

| Frequency range | Limits (dBμV) | |
|---|---|---|
| | Quasi-peak | Average |
| 150kHz ～ 0.5MHz | 66～56 | 56～46 |
| 0.5 MHz ～ 5 MHz | 56 | 46 |
| 5 MHz ～ 30 MHz | 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 150 kHz to 0.5MHz.

## 6.2. TEST PROCEDURES

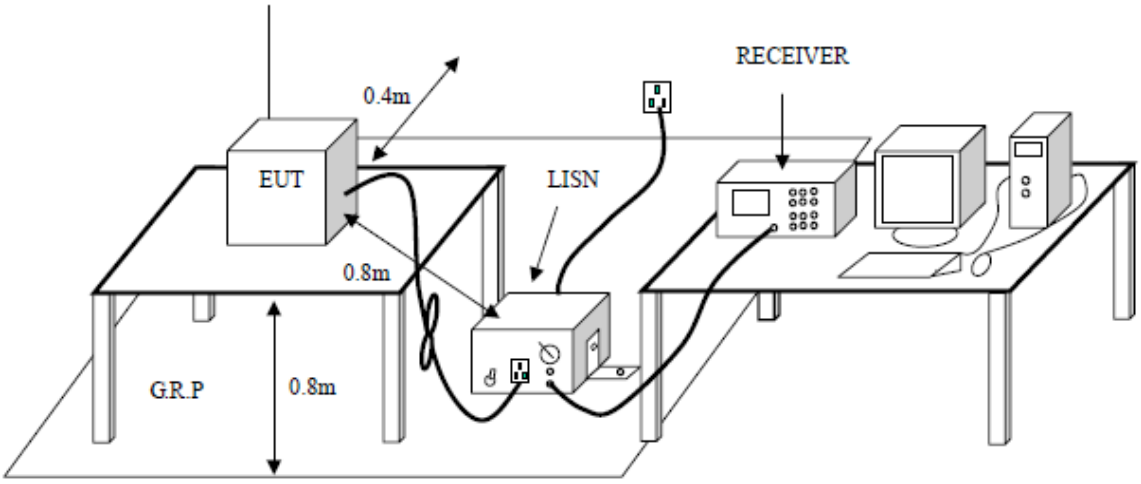
**Procedure of Preliminary Test**

Test procedures follow ANSI C63.4:2014.
For measurement of the disturbance voltage the equipment under test (EUT) is connected to the power supply mains and any other extended network via one or more artificial network(s). An EUT, whether intended to be grounded or not, and which is to be used on a table is configured as follows:
– Either the bottom or the rear of the EUT shall be at a controlled distance of 40 cm from a reference ground plane. This ground plane is normally the wall or floor of a shielded room. It may also be a grounded metal plane of at least 2 m by 2 m. This is physically accomplished as follows:
1) place the EUT on a table of non-conducting material which is at least 80 cm high. Place the EUT so that it is 40 cm from the wall of the shielded room, or
2) place the EUT on a table of non-conducting material which is 40 cm high so that the bottom of the EUT is 40 cm above the ground plane;
– All other conductive surfaces of the EUT shall be at least 80 cm from the reference ground plane;
– The EUT are placed on the floor that one side of the housings is 40 cm from the vertical reference ground plane and other metallic parts;
– Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 cm to 40 cm long, hanging approximately in the middle between the ground plane and the table.
– I/O cables that are connected to a peripheral shall be bundled in the centre. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.
The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level.The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

**Procedure of Final Test**

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

## 6.3. TEST SETUP




## 6.4. DATA SAMPLE

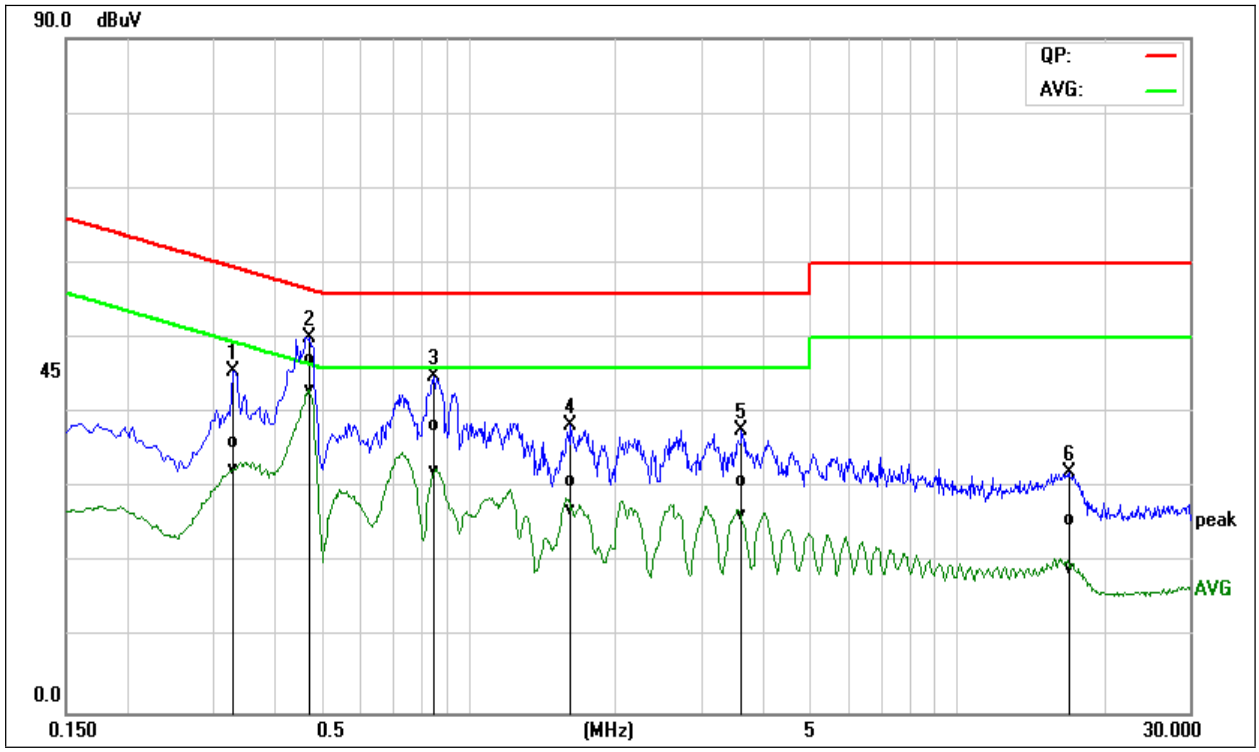
| Frequency (MHz) | QuasiPeak Reading (dBuV) | Average Reading (dBuV) | Correction Factor (dB) | QuasiPeak Result (dBuV) | Average Result (dBuV) | QuasiPeak Limit (dBuV) | Average Limit (dBuV) | QuasiPeak Margin (dB) | Average Margin (dB) | Remark (Pass/Fail) |
|---|---|---|---|---|---|---|---|---|---|---|
| X.XXXX | 32.69 | 25.65 | 11.52 | 44.21 | 37.17 | 65.78 | 55.79 | -21.57 | -18.62 | Pass |

Factor = Insertion loss of LISN + Cable Loss
Result = Quasi-peak Reading/ Average Reading + Factor
Limit = Limit stated in standard
Margin = Result (dBuV) – Limit (dBuV)

## 6.5. TEST RESULTS

| Model No. | MVPB0010 | RBW,VBW | 9 kHz |
|---|---|---|---|
| Environmental Conditions | 23.7°C, 57%RH | Test Mode | Mode 1 |
| Tested By | Bert Wen | Line | L |
| Tested Date | 2019-09-17 | Test Voltage | AC120V/60Hz |

(The chart below shows the highest readings taken from the final data.)

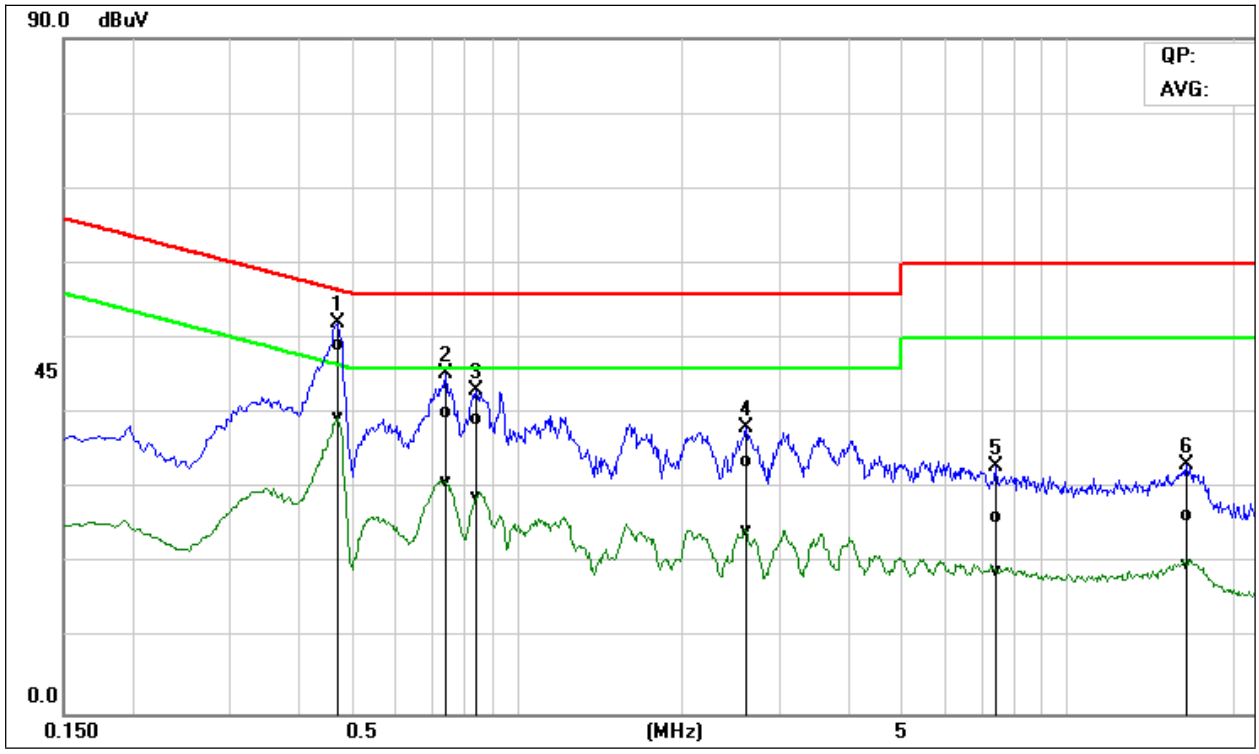



| Frequency (MHz) | QuasiPeak Reading (dBuV) | Average Reading (dBuV) | Correction Factor (dB) | QuasiPeak Result (dBuV) | Average Result (dBuV) | QuasiPeak Limit (dBuV) | Average Limit (dBuV) | QuasiPeak Margin (dB) | Average Margin (dB) | Remark (Pass/Fail) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.3303 | 16.98 | 13.31 | 19.18 | 36.16 | 32.49 | 59.44 | 49.44 | -23.28 | -16.95 | Pass |
| 0.4739 | 27.93 | 23.83 | 19.20 | 47.13 | 43.03 | 56.45 | 46.45 | -9.32 | -3.42 | Pass |
| 0.8557 | 19.14 | 13.15 | 19.22 | 38.36 | 32.37 | 56.00 | 46.00 | -17.64 | -13.63 | Pass |
| 1.6300 | 11.69 | 7.80 | 19.24 | 30.93 | 27.04 | 56.00 | 46.00 | -25.07 | -18.96 | Pass |
| 3.6165 | 11.65 | 7.04 | 19.34 | 30.99 | 26.38 | 56.00 | 46.00 | -25.01 | -19.62 | Pass |
| 17.0047 | 5.75 | -0.73 | 19.94 | 25.69 | 19.21 | 60.00 | 50.00 | -34.31 | -30.79 | Pass |

***REMARKS:*** *L = Live Line*

| Model No. | MVPB0010 | RBW,VBW | 9 kHz |
|---|---|---|---|
| Environmental Conditions | 23.7°C, 57%RH | Test Mode | Mode 1 |
| Tested By | Bert Wen | Line | N |
| Tested Date | 2019-09-17 | Test Voltage | AC120V/60Hz |

(The chart below shows the highest readings taken from the final data.)




| Frequency (MHz) | QuasiPeak Reading (dBuV) | Average Reading (dBuV) | Correction Factor (dB) | QuasiPeak Result (dBuV) | Average Result (dBuV) | QuasiPeak Limit (dBuV) | Average Limit (dBuV) | QuasiPeak Margin (dB) | Average Margin (dB) | Remark (Pass/Fail) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.4740 | 30.00 | 20.40 | 19.20 | 49.20 | 39.60 | 56.44 | 46.44 | -7.24 | -6.84 | Pass |
| 0.7460 | 20.88 | 11.61 | 19.22 | 40.10 | 30.83 | 56.00 | 46.00 | -15.90 | -15.17 | Pass |
| 0.8460 | 19.98 | 9.80 | 19.22 | 39.20 | 29.02 | 56.00 | 46.00 | -16.80 | -16.98 | Pass |
| 2.6140 | 14.33 | 5.04 | 19.27 | 33.60 | 24.31 | 56.00 | 46.00 | -22.40 | -21.69 | Pass |
| 7.4540 | 6.51 | -0.53 | 19.59 | 26.10 | 19.06 | 60.00 | 50.00 | -33.90 | -30.94 | Pass |
| 16.5220 | 6.60 | 0.06 | 19.90 | 26.50 | 19.96 | 60.00 | 50.00 | -33.50 | -30.04 | Pass |

***REMARKS:*** *N = Neutral Line.*

# 7. RADIATED SPURIOUS EMISSIONS

## 7.1. LIMITS

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

| Frequency (MHz) | Quasi-peak(μV/m) | Measurement distance(m) | Quasi-peak(dBμV/m)@distance 3m |
|---|---|---|---|
| 0.009-0.490 | 2400/F(kHz) | 300 | 53.8~88.5 |
| 0.490-1.705 | 24000/F(kHz) | 30 | 43~53.8 |
| 1.705-30.0 | 30 | 30 | 49.5 |
| 30 ~ 88 | 100 | 3 | 40 |
| 88~216 | 150 | 3 | 43.5 |
| 216 ~ 960 | 200 | 3 | 46 |
| Above 960 | 500 | 3 | 54 |

**NOTE**: (1) The lower limit shall apply at the transition frequencies.

## 7.2. TEST PROCEDURES(please refer to measurement standard)

**1) Sequence of testing 9 kHz to 30 MHz**

**Setup:**

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

**Premeasurement:**

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna height is 0.8 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

**Final measurement:**

--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

**2) Sequence of testing 30 MHz to 1 GHz**

**Setup:**

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

**Premeasurement:**

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

**Final measurement:**

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

**3) Sequence of testing 1 GHz to 18 GHz**

**Setup:**

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

**Premeasurement:**

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height scan range is 1 meter to 2.5 meter.

--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

**Final measurement:**

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
--- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

**4) Sequence of testing above 18 GHz**
**Setup:**

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 1 meter.

--- The EUT was set into operation.

**Premeasurement:**

--- The antenna is moved spherical over the EUT in different polarisations of the antenna.

**Final measurement:**

--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
--- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

NOTE: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (10 log(1/duty cycle)).

## 7.3. TEST SETUP

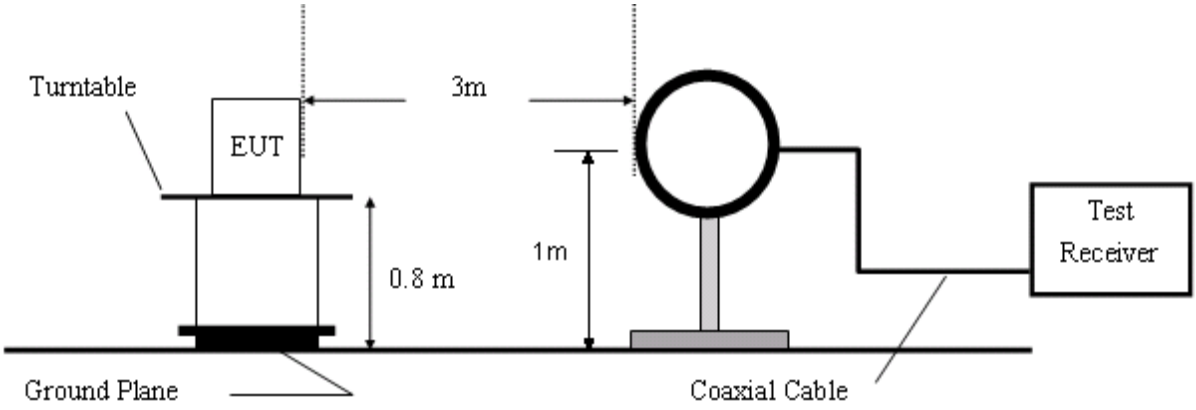



**Figure 1. 9KHz to 30MHz radiated emissions test configuration**

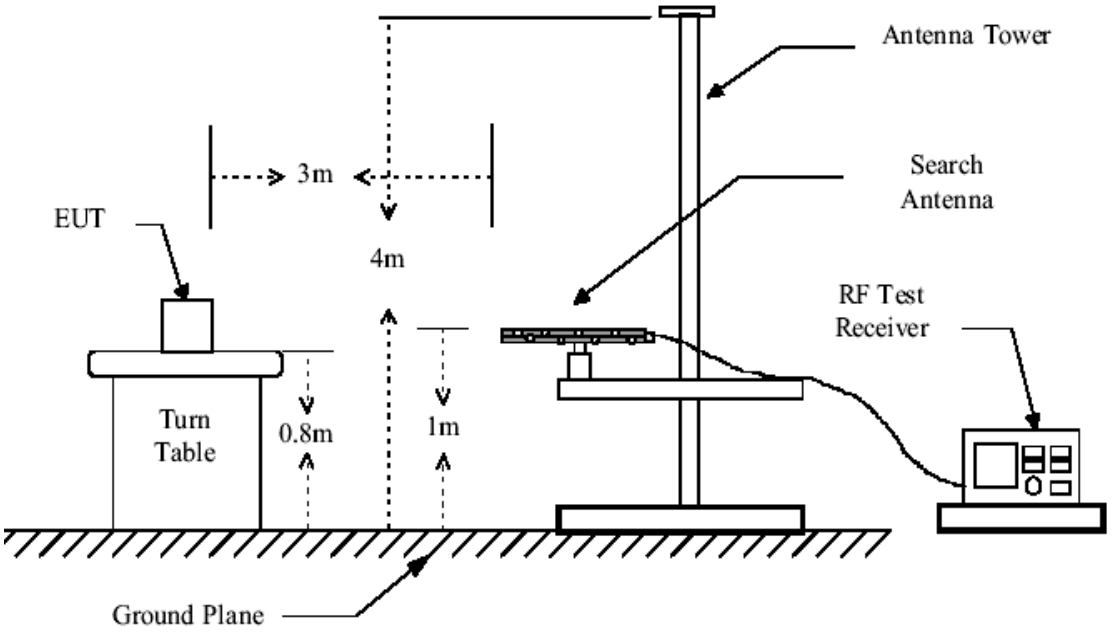



**Figure 2. 30MHz to 1GHz radiated emissions test configuration**

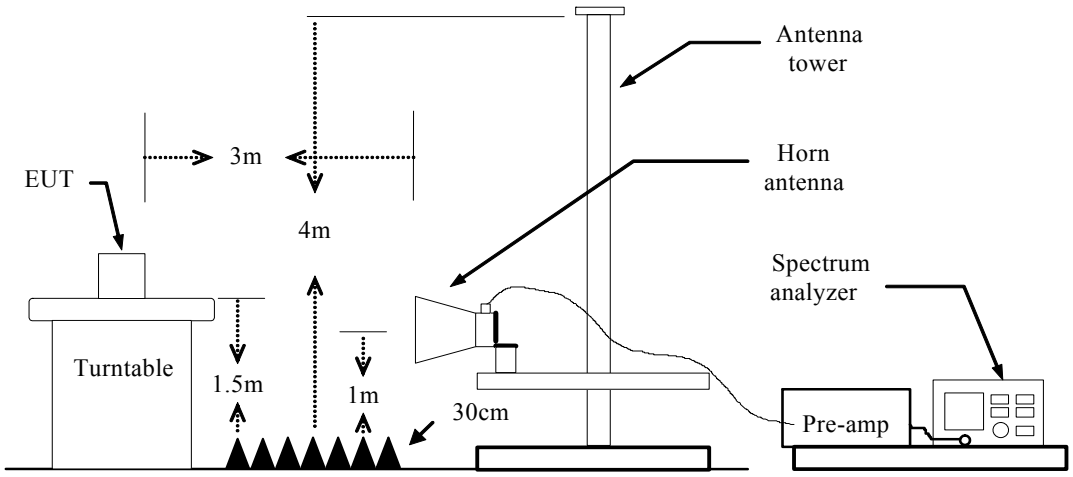



**Figure 3. Above 1GHz radiated emissions test configuration**

# 7.4. DATA SAMPLE

## 30MHz to 1GHz

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark | Pole |
|---|---|---|---|---|---|---|---|---|
| xxx | xxx | 37.06 | -15.48 | 21.58 | 40.00 | -18.42 | QP | Vertical |

## Above 1 GHz

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark | Pole |
|---|---|---|---|---|---|---|---|---|
| xxx | xxx | 65.45 | -11.12 | 54.33 | 74.00 | -19.67 | peak | Vertical |
| xxx | xxx | 63.00 | -11.12 | 51.88 | 54.00 | -2.12 | AVG | Vertical |

Frequency (MHz) = Emission frequency in MHz

Ant.Pol. (H/V) = Antenna polarization

Reading (dBuV) = Uncorrected Analyzer / Receiver reading

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

Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Remark Result (dBuV/m) – Limit (dBuV/m)

Peak = Peak Reading

QP = Quasi-peak Reading

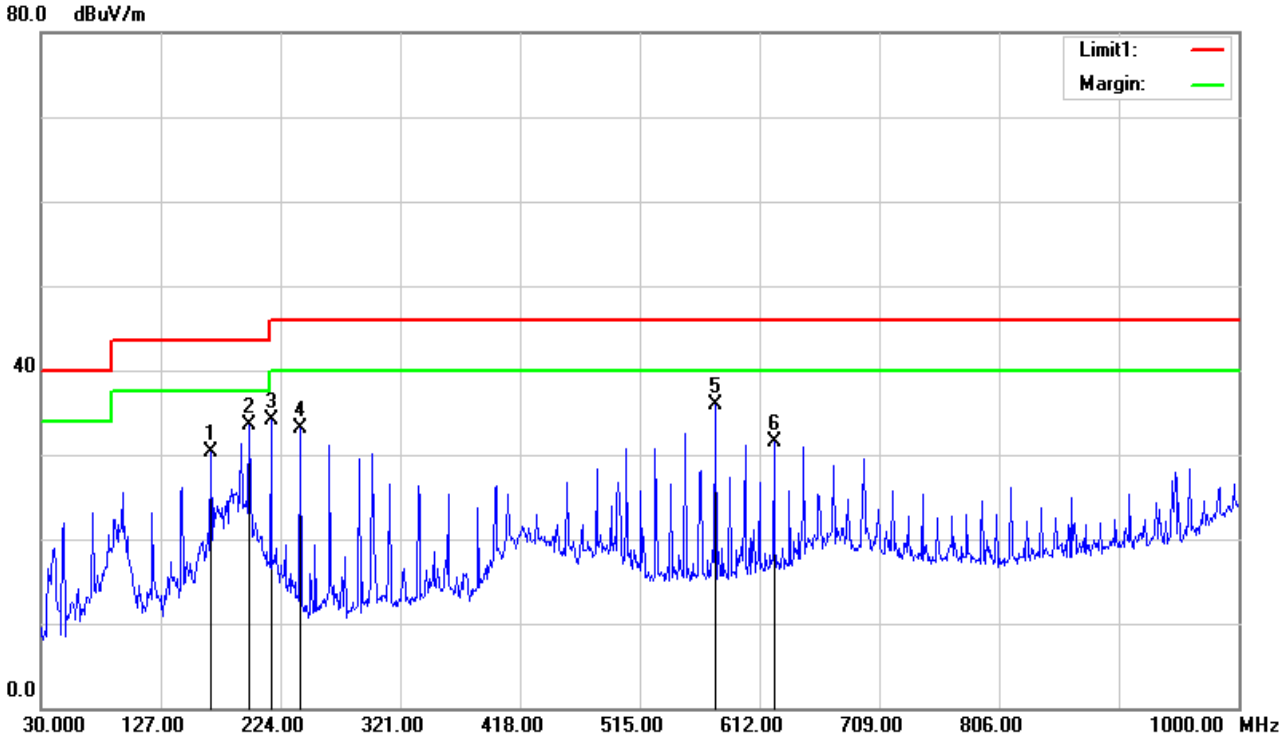
AVG = Average Reading

## 7.5. TEST RESULTS

**30MHz to 1GHz:**

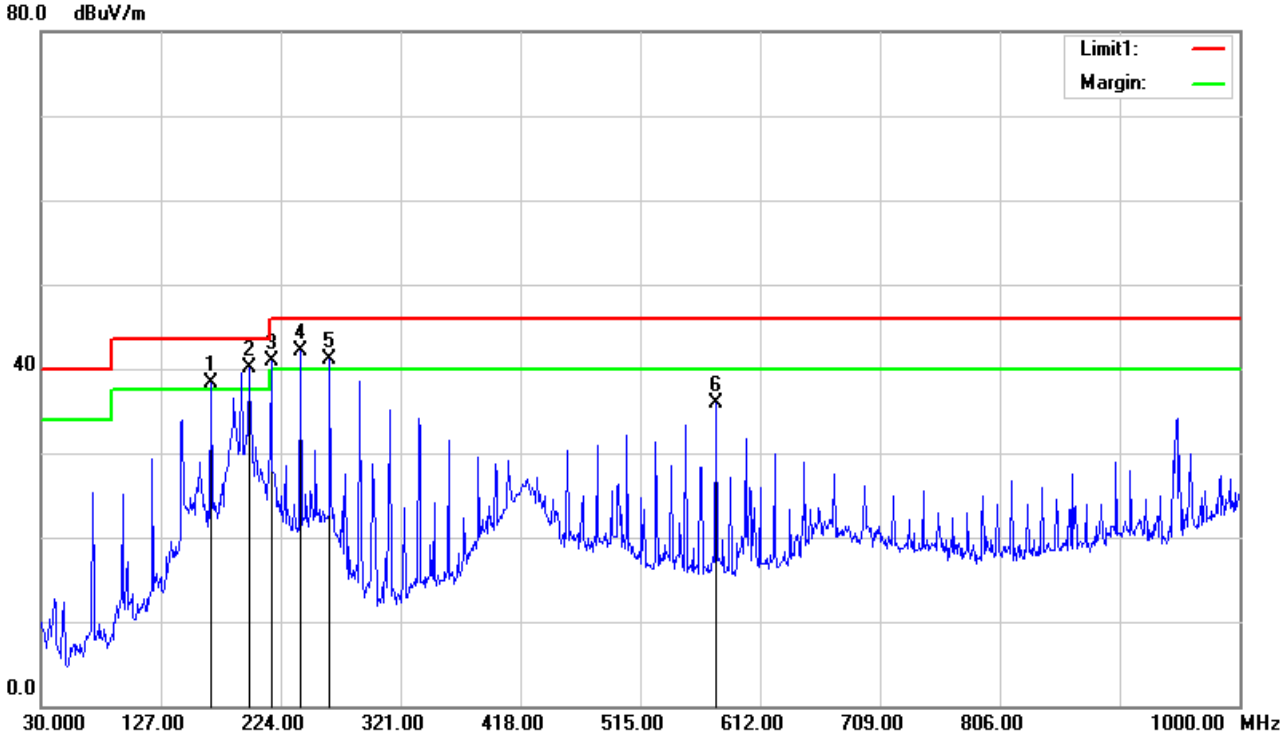
Mode: TX

Highest channel (2402MHz) Date: 2019-09-16



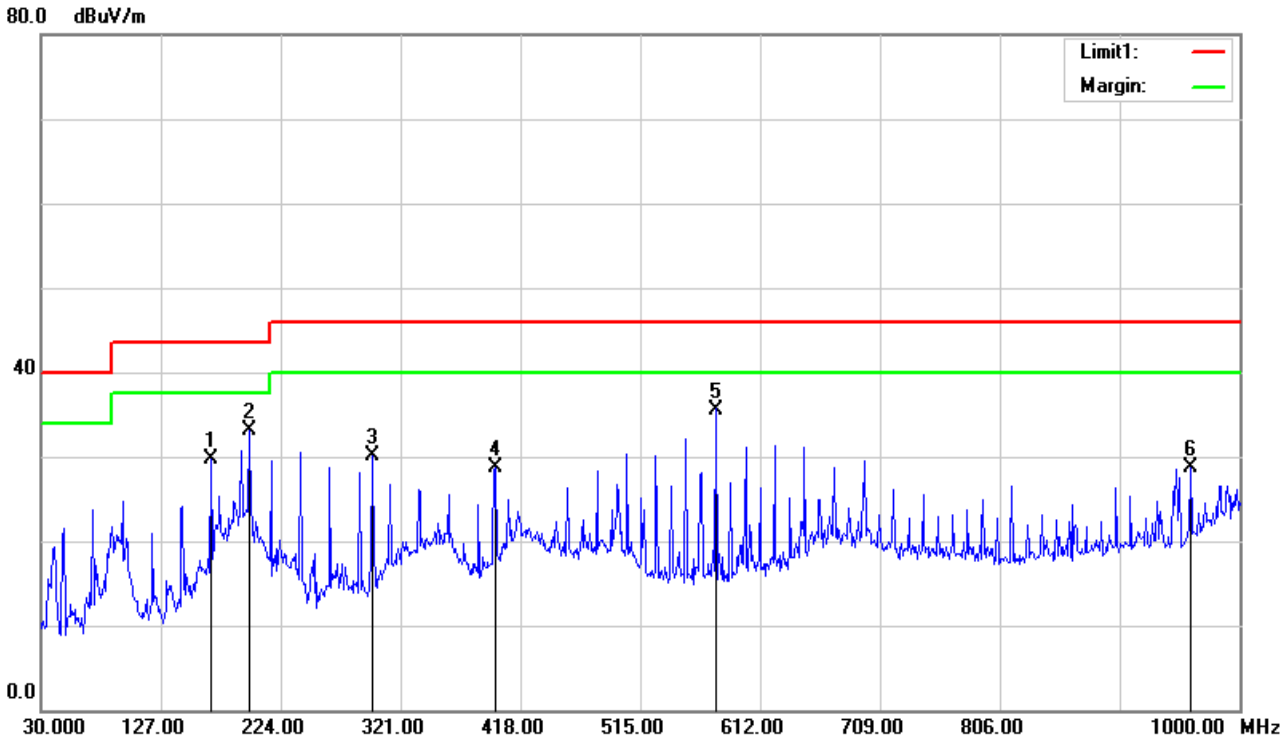

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark | Pole |
|---|---|---|---|---|---|---|---|---|
| 1 | 167.7400 | 56.17 | -25.90 | 30.27 | 43.50 | -13.23 | QP | Vertical |
| 2 | 198.7800 | 62.45 | -28.90 | 33.55 | 43.50 | -9.95 | QP | Vertical |
| 3 | 216.2400 | 63.02 | -28.87 | 34.15 | 46.00 | -11.85 | QP | Vertical |
| 4 | 239.5200 | 61.47 | -28.41 | 33.06 | 46.00 | -12.94 | QP | Vertical |
| 5 | 576.1100 | 55.59 | -19.69 | 35.90 | 46.00 | -10.10 | QP | Vertical |
| 6 | 623.6400 | 50.06 | -18.65 | 31.41 | 46.00 | -14.59 | QP | Vertical |

Mode: TX
Highest channel (2402MHz) Date: 2019-09-16



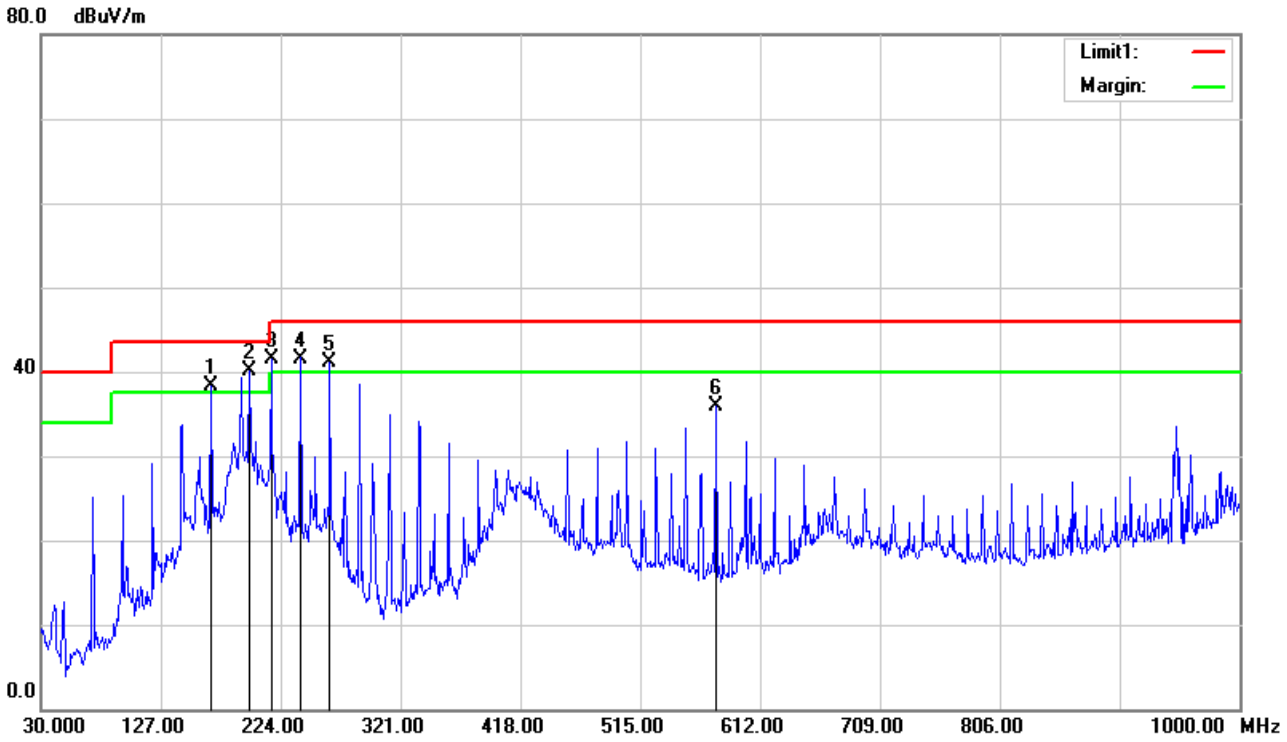

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark | Pole |
|---|---|---|---|---|---|---|---|---|
| 1 | 167.7400 | 64.28 | -25.90 | 38.38 | 43.50 | -5.12 | QP | Horizontal |
| 2 | 198.7800 | 69.08 | -28.90 | 40.18 | 43.50 | -3.32 | QP | Horizontal |
| 3 | 216.2400 | 69.85 | -28.87 | 40.98 | 46.00 | -5.02 | QP | Horizontal |
| 4 | 239.5200 | 70.45 | -28.41 | 42.04 | 46.00 | -3.96 | QP | Horizontal |
| 5 | 263.7700 | 68.74 | -27.64 | 41.10 | 46.00 | -4.90 | QP | Horizontal |
| 6 | 576.1100 | 55.67 | -19.69 | 35.98 | 46.00 | -10.02 | QP | Horizontal |

Mode: TX
Highest channel (2480MHz) Date: 2019-09-16




| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark | Pole |
|---|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 167.7400 | 55.68 | -25.90 | 29.78 | 43.50 | -13.72 | QP | Vertical |
| 2 | 198.7800 | 61.92 | -28.90 | 33.02 | 43.50 | -10.48 | QP | Vertical |
| 3 | 297.7200 | 56.70 | -26.56 | 30.14 | 46.00 | -15.86 | QP | Vertical |
| 4 | 397.6300 | 52.53 | -23.82 | 28.71 | 46.00 | -17.29 | QP | Vertical |
| 5 | 576.1100 | 55.29 | -19.69 | 35.60 | 46.00 | -10.40 | QP | Vertical |
| 6 | 960.2300 | 43.36 | -14.63 | 28.73 | 46.00 | -17.27 | QP | Vertical |

Mode: TX
Highest channel (2480MHz) Date: 2019-09-16




| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark | Pole |
|---|---|---|---|---|---|---|---|---|
| 1 | 167.7400 | 64.24 | -25.90 | 38.34 | 43.50 | -5.16 | QP | Horizontal |
| 2 | 198.7800 | 69.03 | -28.90 | 40.13 | 43.50 | -3.37 | QP | Horizontal |
| 3 | 216.2400 | 70.36 | -28.87 | 41.49 | 46.00 | -4.51 | QP | Horizontal |
| 4 | 239.5200 | 70.01 | -28.41 | 41.60 | 46.00 | -4.40 | QP | Horizontal |
| 5 | 263.7700 | 68.83 | -27.64 | 41.19 | 46.00 | -4.81 | QP | Horizontal |
| 6 | 576.1100 | 55.56 | -19.69 | 35.87 | 46.00 | -10.13 | QP | Horizontal |

**Remark:**

1 No emission found between lowest internal used/generated frequency to 30MHz.

2 Radiated emissions measured in frequency range from 9 kHz to 1GHz were made with an instrument using Quasi-peak detector mode.

3 Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

4 The IF bandwidth of Receiver between 30MHz to 1GHz was 120 kHz.

**Above 1GHz:**

Mode: TX

Lowest channel (2402MHz) Date: 2019-09-16

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark | Pole |
|---|---|---|---|---|---|---|---|---|
| 1 | 1810.000 | 49.20 | -3.49 | 45.71 | 74.00 | -28.29 | peak | Vertical |
| 2 | 1900.000 | 49.65 | -2.95 | 46.70 | 74.00 | -27.30 | peak | Vertical |
| 3 | 2071.000 | 48.58 | -2.19 | 46.39 | 74.00 | -27.61 | peak | Vertical |
| 4 | 5761.000 | 42.13 | 4.50 | 46.63 | 74.00 | -27.37 | peak | Vertical |
| 5 | 6013.000 | 41.52 | 5.28 | 46.80 | 74.00 | -27.20 | peak | Vertical |
| 6 | 7210.000 | 40.69 | 7.56 | 48.25 | 74.00 | -25.75 | peak | Vertical |
| 7 | 1225.000 | 46.54 | -7.71 | 38.83 | 74.00 | -35.17 | peak | Horizontal |
| 8 | 2152.000 | 43.97 | -3.78 | 40.19 | 74.00 | -33.81 | peak | Horizontal |
| 9 | 3196.000 | 42.96 | -1.21 | 41.75 | 74.00 | -32.25 | peak | Horizontal |
| 10 | 4807.000 | 45.82 | 0.96 | 46.78 | 74.00 | -27.22 | peak | Horizontal |
| 11 | 6013.000 | 41.58 | 3.83 | 45.41 | 74.00 | -28.59 | peak | Horizontal |
| 12 | 7201.000 | 39.61 | 5.90 | 45.51 | 74.00 | -28.49 | peak | Horizontal |

Mode: TX

Middle channel (2440MHz) Date: 2019-09-16

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark | Pole |
|---|---|---|---|---|---|---|---|---|
| 1 | 1900.000 | 47.37 | -2.95 | 44.42 | 74.00 | -29.58 | peak | Vertical |
| 2 | 2566.000 | 43.73 | -0.95 | 42.78 | 74.00 | -31.22 | peak | Vertical |
| 3 | 3250.000 | 42.28 | 0.92 | 43.20 | 74.00 | -30.80 | peak | Vertical |
| 4 | 4879.000 | 41.64 | 2.31 | 43.95 | 74.00 | -30.05 | peak | Vertical |
| 5 | 5761.000 | 40.61 | 4.50 | 45.11 | 74.00 | -28.89 | peak | Vertical |
| 6 | 6013.000 | 40.45 | 5.28 | 45.73 | 74.00 | -28.27 | peak | Vertical |
| 7 | 1297.000 | 49.80 | -7.46 | 42.34 | 74.00 | -31.66 | peak | Horizontal |
| 8 | 1900.000 | 48.07 | -4.57 | 43.50 | 74.00 | -30.50 | peak | Horizontal |
| 9 | 2557.000 | 44.31 | -3.01 | 41.30 | 74.00 | -32.70 | peak | Horizontal |
| 10 | 3511.000 | 41.47 | -1.07 | 40.40 | 74.00 | -33.60 | peak | Horizontal |
| 11 | 4879.000 | 43.93 | 0.98 | 44.91 | 74.00 | -29.09 | peak | Horizontal |
| 12 | 6382.000 | 38.11 | 4.45 | 42.56 | 74.00 | -31.44 | peak | Horizontal |

Mode: TX

Highest channel (2480MHz) Date: 2019-09-16

| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark | Pole |
|---|---|---|---|---|---|---|---|---|
| 1 | 1900.000 | 48.36 | -2.95 | 45.41 | 74.00 | -28.59 | peak | Vertical |
| 2 | 2125.000 | 47.26 | -2.07 | 45.19 | 74.00 | -28.81 | peak | Vertical |
| 3 | 3808.000 | 41.15 | 1.34 | 42.49 | 74.00 | -31.51 | peak | Vertical |
| 4 | 4960.000 | 42.52 | 2.26 | 44.78 | 74.00 | -29.22 | peak | Vertical |
| 5 | 5761.000 | 42.60 | 4.50 | 47.10 | 74.00 | -26.90 | peak | Vertical |
| 6 | 6013.000 | 40.82 | 5.28 | 46.10 | 74.00 | -27.90 | peak | Vertical |
| 7 | 1333.000 | 49.48 | -7.33 | 42.15 | 74.00 | -31.85 | peak | Horizontal |
| 8 | 2539.000 | 44.06 | -3.08 | 40.98 | 74.00 | -33.02 | peak | Horizontal |
| 9 | 3304.000 | 42.23 | -1.17 | 41.06 | 74.00 | -32.94 | peak | Horizontal |
| 10 | 4960.000 | 41.85 | 0.99 | 42.84 | 74.00 | -31.16 | peak | Horizontal |
| 11 | 6247.000 | 40.25 | 4.22 | 44.47 | 74.00 | -29.53 | peak | Horizontal |
| 12 | 7444.000 | 40.49 | 6.38 | 46.87 | 74.00 | -27.13 | peak | Horizontal |

***Remark:***

1 Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2 Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.

3 Average test would be performed if the peak result were greater than the average limit or as required by the applicant.

4 Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

5 Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

# 8. 6DB BANDWIDTH

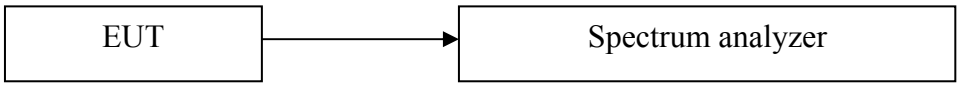
## 8.1. LIMITS

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

## 8.2. TEST PROCEDURES

1) Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the spectrum analyzer**.**
2) Set resolution bandwidth (RBW) = 100kHz.Set the video bandwidth (VBW) ≥ 3 x RBW. Detector = Peak. Trace mode = max hold. Sweep = auto couple. Allow the trace to stabilize, record 6dB bandwidth value.
3) Repeat above procedures until all frequencies measured were complete.

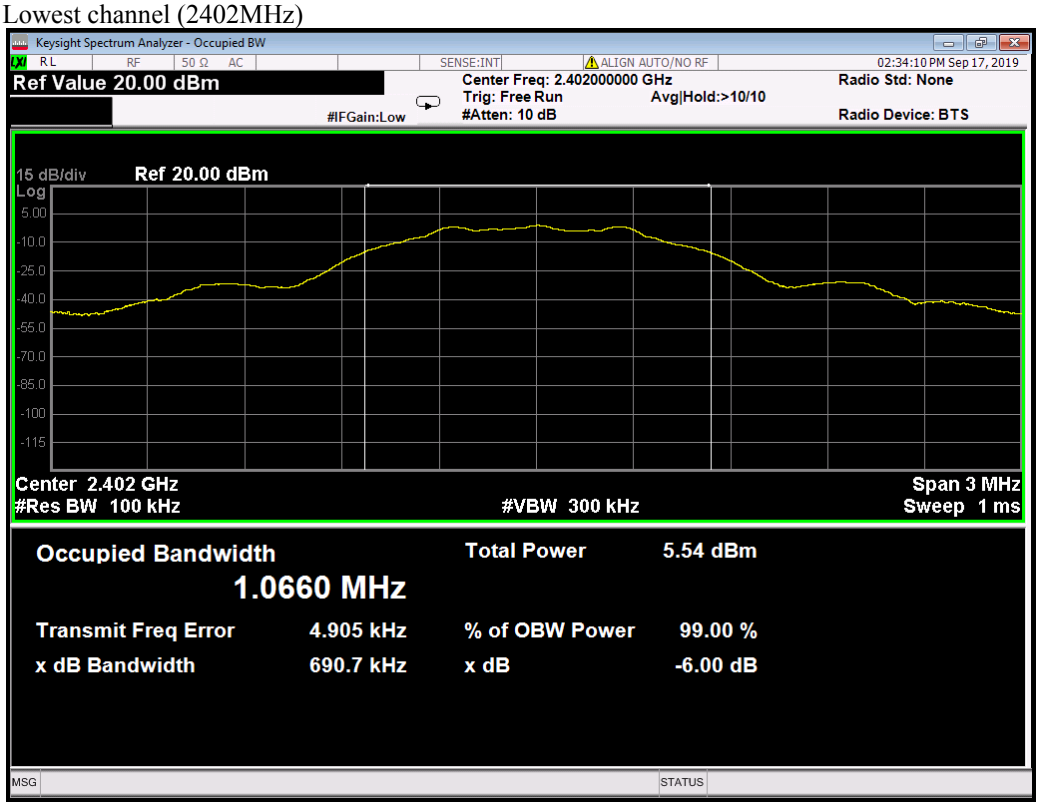
## 8.3. TEST SETUP



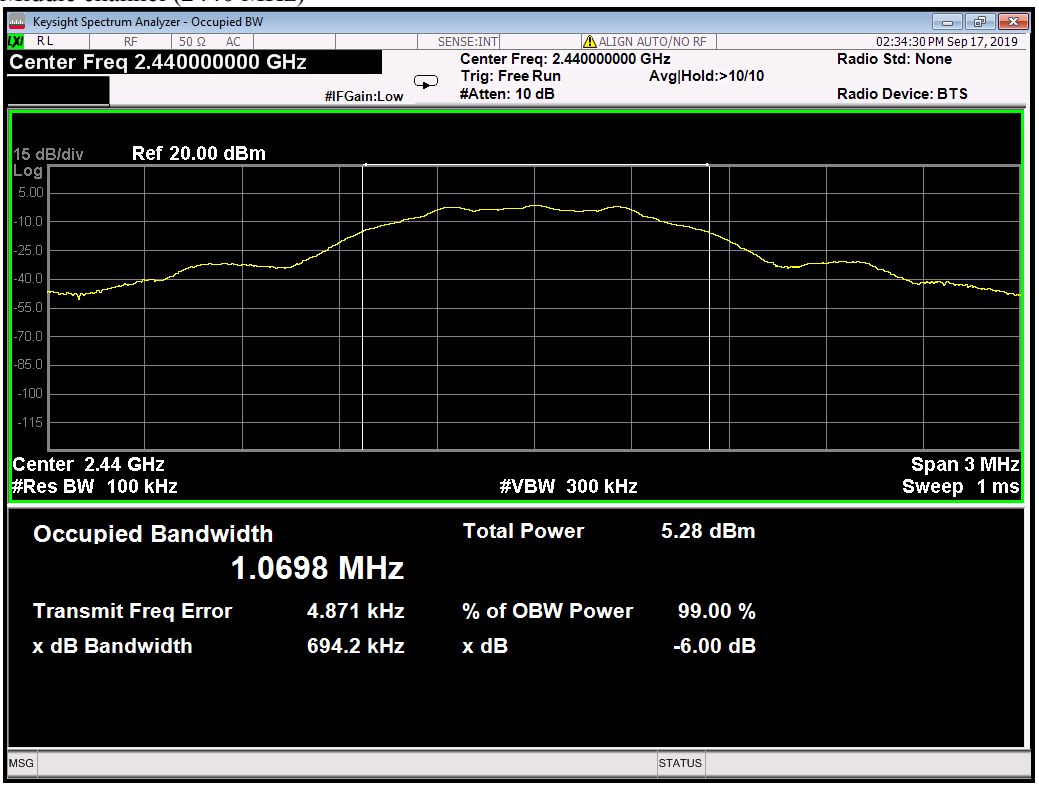

## 8.4. TEST RESULTS

| Channel | Frequency (MHz) | Bandwidth (kHz) | Limit (kHz) | Test Result |
|---|---|---|---|---|
| Lowest | 2402 | 690.7 | >500 | PASS |
| Middle | 2440 | 694.2 | | PASS |
| Highest | 2480 | 708.3 | | PASS |

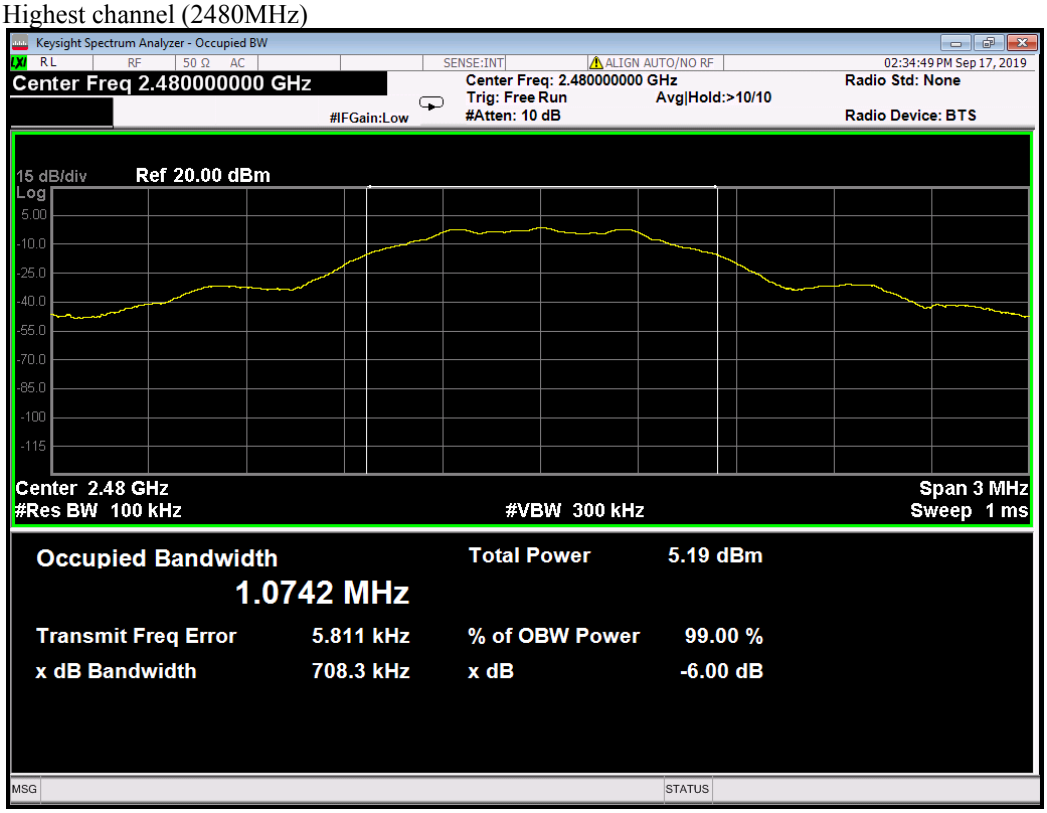
Lowest channel (2402MHz)




Middle channel (2440 MHz)



Highest channel (2480MHz)



# 9. MAXIMUM PEAK OUTPUT POWER

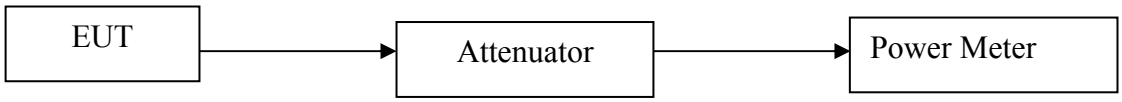
## 9.1 LIMITS

The maximum Peak output power measurement is 1W

## 9.2 TEST PROCEDURES

1) Place the EUT on a bench and set it in transmitting mode.
2) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI Test Receiver.
3) The spectrum analyzer resolution bandwidth that is ≤EBW. So we test the Maximum Conducted Output Power ——Integrated band power method.
4) Set the analyzer span≥ 1.5 x DTS bandwidth. Set the RBW = 1 MHz. Set the VBW ≥ 3 MHz. Sweep time = auto couple. Detector = peak. Allow trace to fully stabilize.

## 9.3 TEST SETUP




## 9.4 TEST RESULTS

| Channel | Frequency (MHz) | Measured Channel Power (dBm) | Limit | Peak/ Average | Result |
|---|---|---|---|---|---|
| Lowest | 2402 | -0.72 | 1W (30dBm) | Peak | Pass |
| Middle | 2440 | -0.96 | | | Pass |
| Highest | 2480 | -1.11 | | | Pass |
| Lowest | 2402 | -3.03 | | Average | Pass |
| Middle | 2440 | -3.16 | | | Pass |
| Highest | 2480 | -3.33 | | | Pass |

# 10. POWER SPECTRAL DENSITY

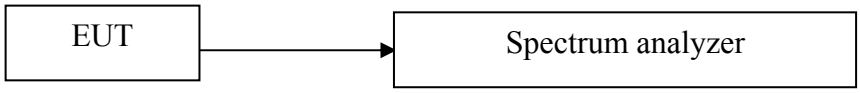
## 10.1 LIMITS

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

## 10.2 TEST PROCEDURES

1) Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the spectrum analyzer.
2) Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3) Set the analyzer span to 1.5 times the DTS bandwidth. Set the RBW = 3 kHz. Set the VBW ≥3 RBW. Detector = peak. Ensure that the number of measurement points in the sweep ≥ 2 x span/RBW (use of a greater number of measurement points than this minimum requirement is recommended).
4) Repeat above procedures until all frequencies measured were complete.

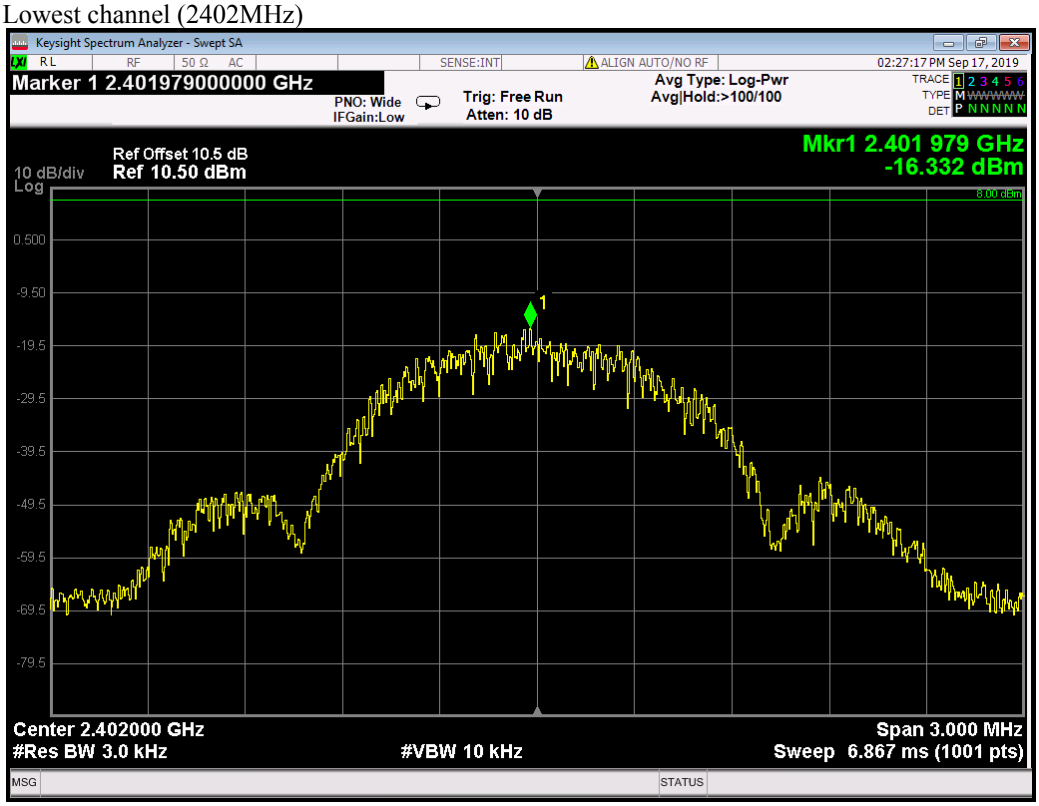
## 10.3 TEST SETUP



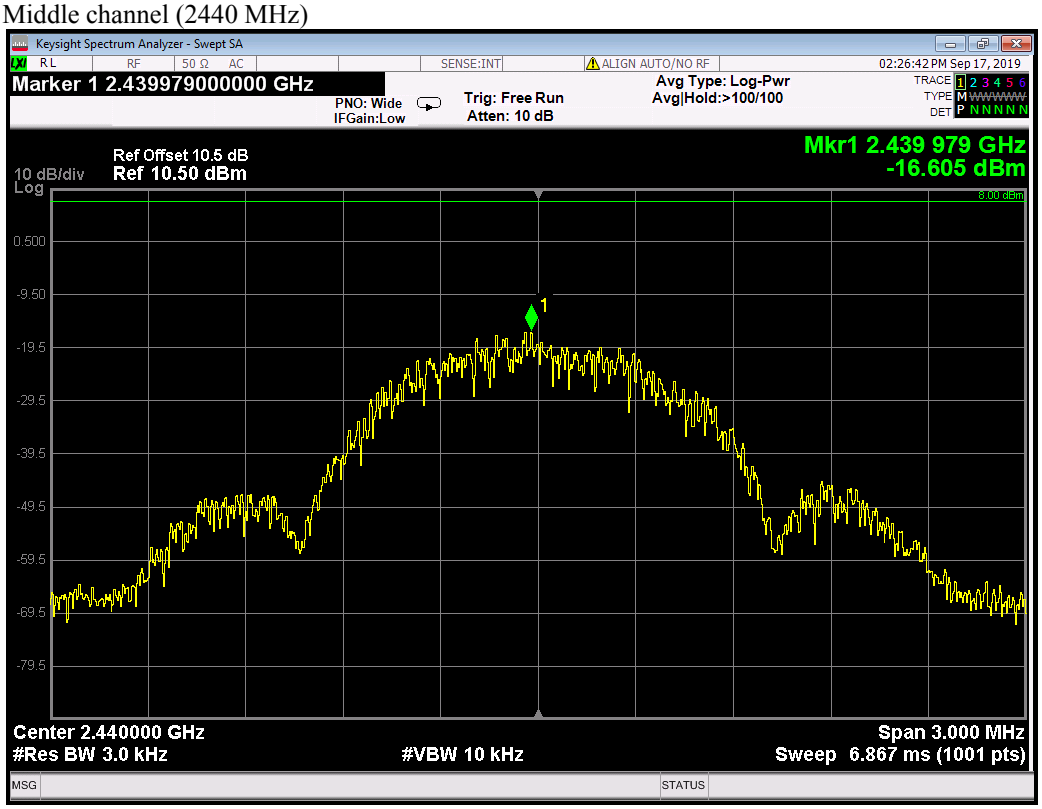

## 10.4 TEST RESULTS

| Channel | Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Test Result |
|---|---|---|---|---|
| Lowest | 2402 | -16.332 | 8 | PASS |
| Middle | 2440 | -16.605 | | PASS |
| Highest | 2480 | -16.633 | | PASS |

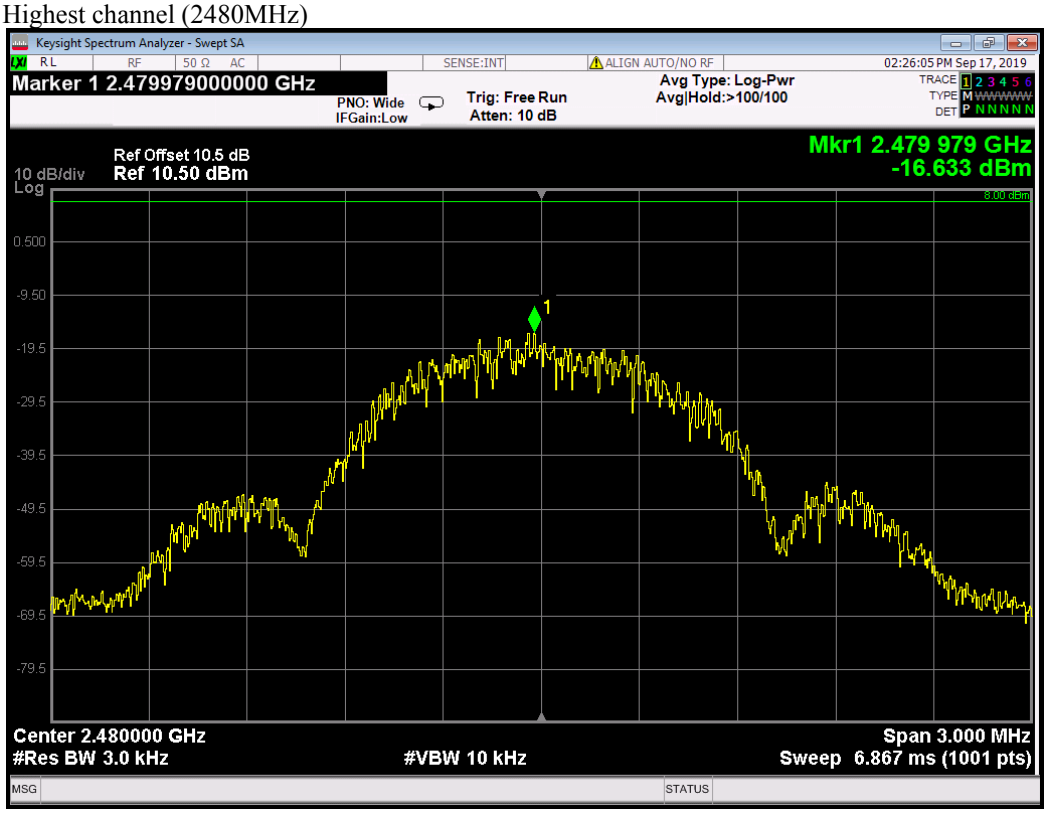
Lowest channel (2402MHz)




Middle channel (2440 MHz)



Highest channel (2480MHz)



# 11. CONDUCTED BAND EDGES AND SPURIOUS EMISSIONS

## 11.2. LIMITS

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

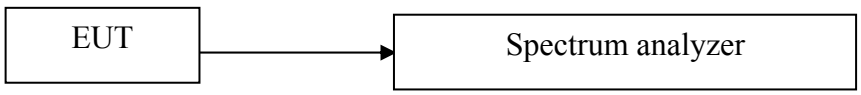
## 11.3. TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Measurement Guidance v03r01.

Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.

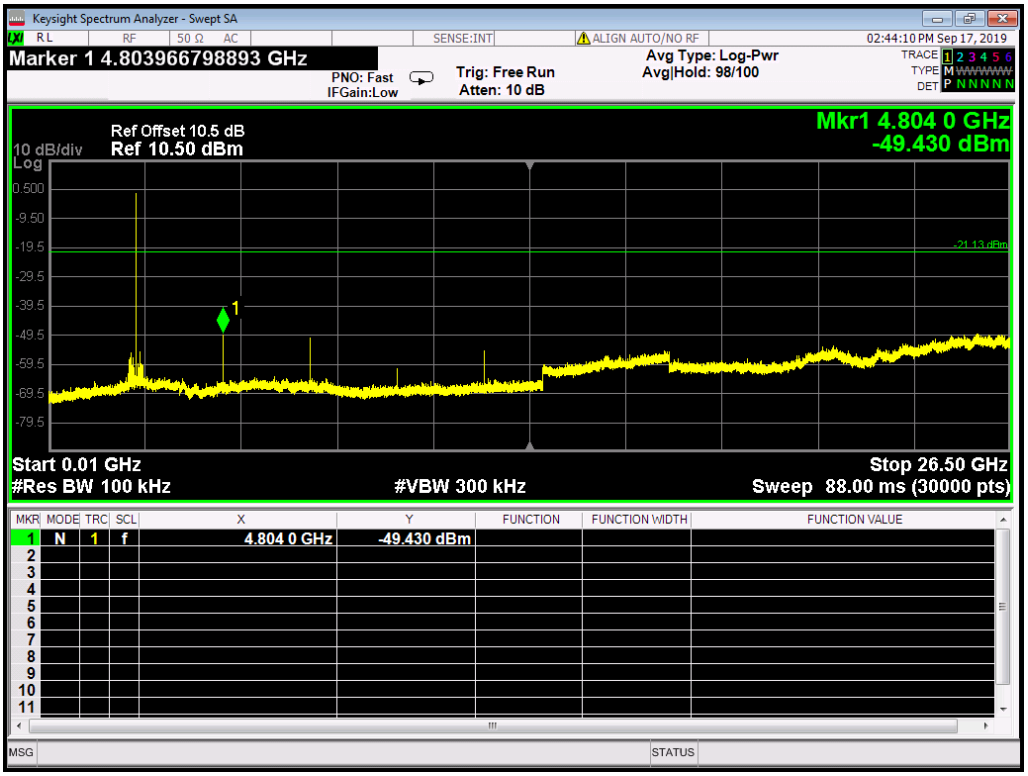
1) Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.
2) Set the spectrum analyzer: RBW =100KHz; VBW =300KHz, Span = 10MHz to 26GHz; Sweep = auto; Detector Function = Peak. Trace = Max, hold.
3) Measure and record the results in the test report.
4) The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

## 11.4. TEST SETUP

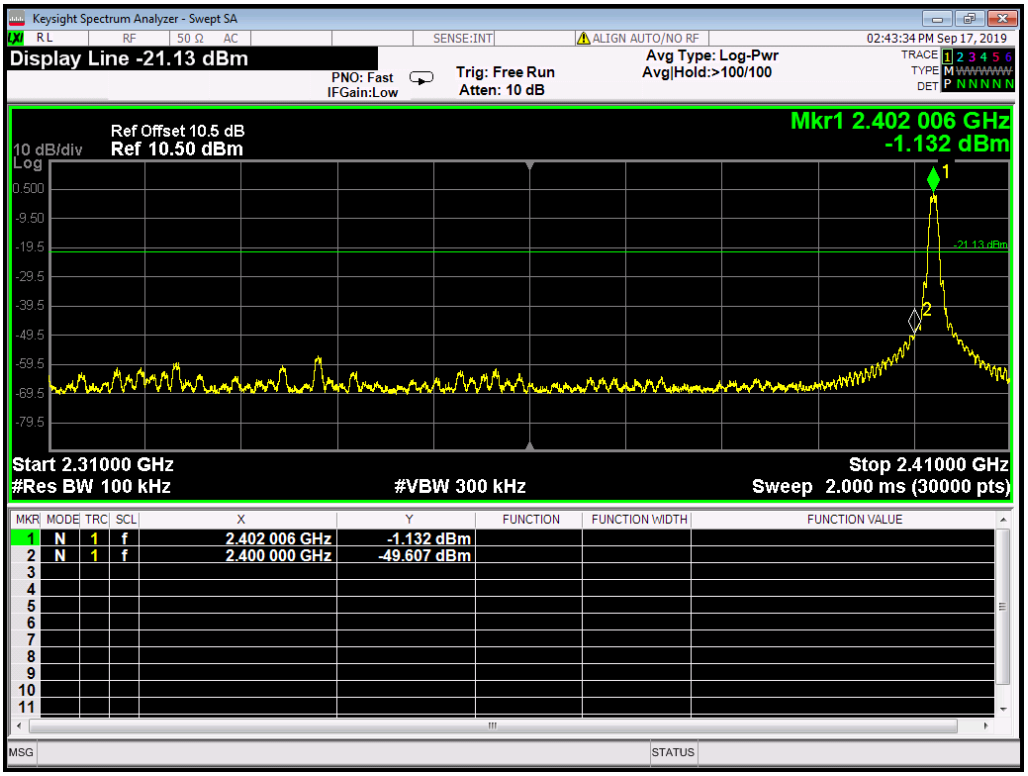


# 11.5. TEST RESULTS

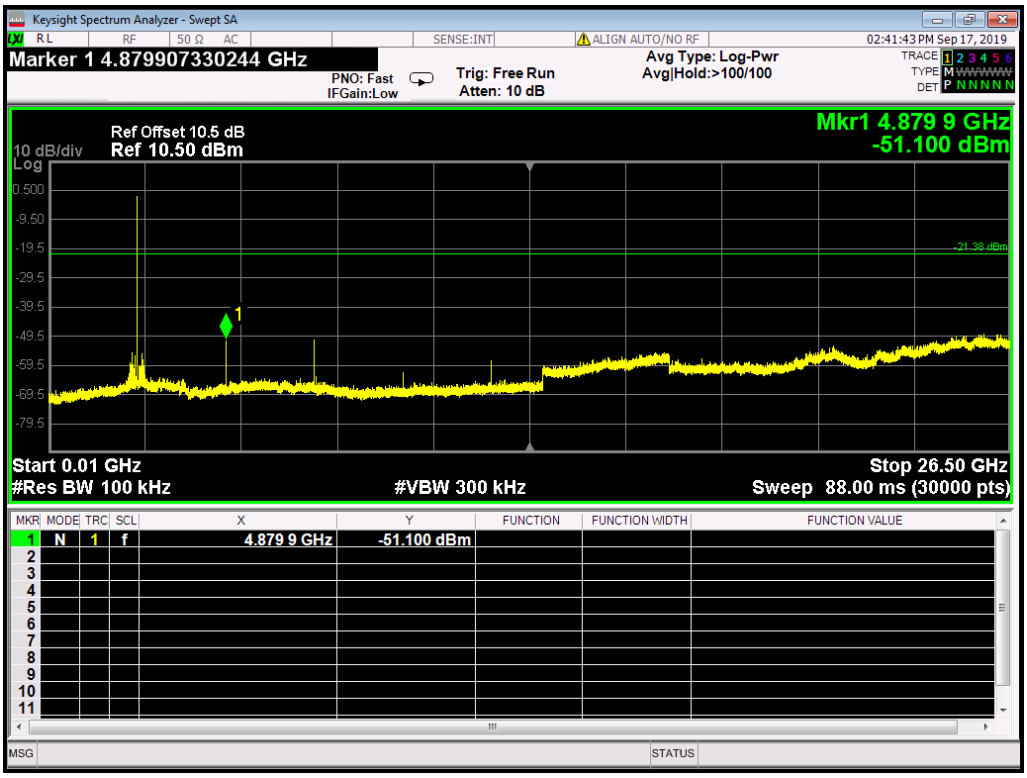
Lowest channel (2402MHz)
0.01GHz-26.5GHz

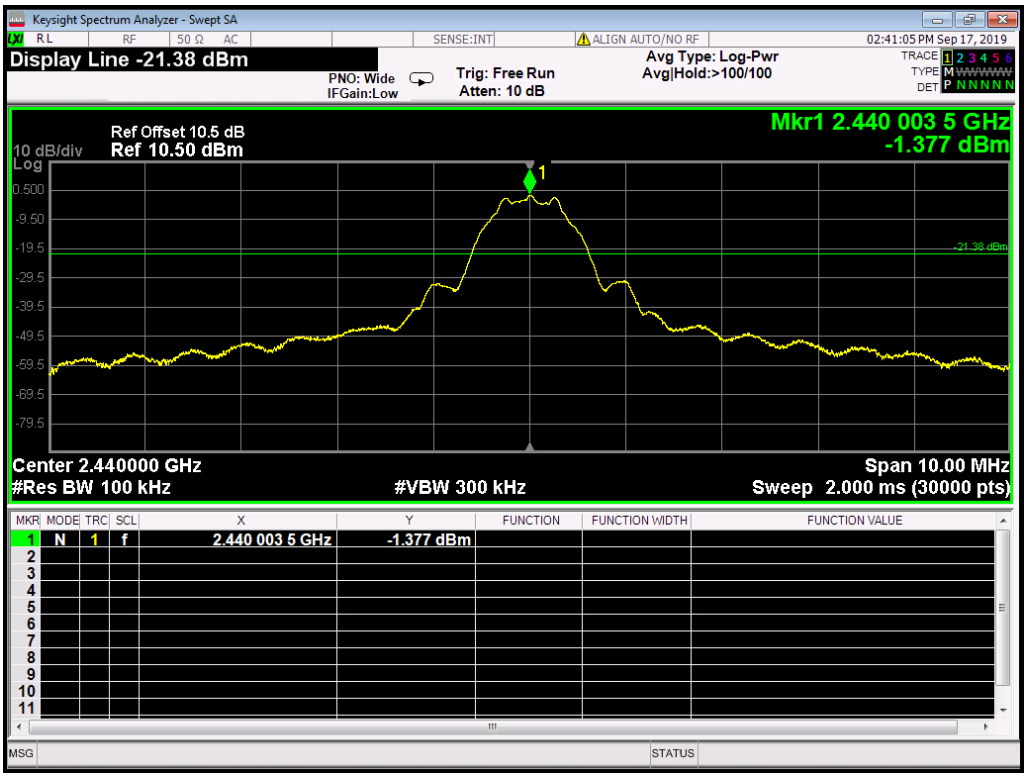



2.31GHz-2.41GHz

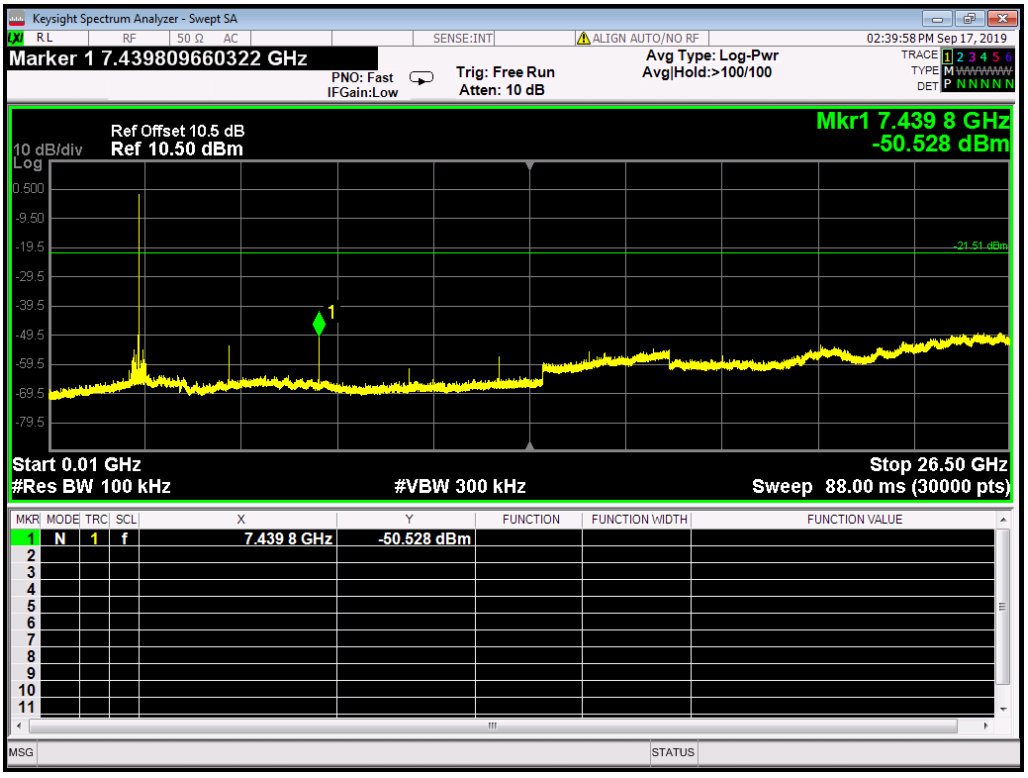


Middle channel (2440 MHz)
0.01GHz-26.5GHz

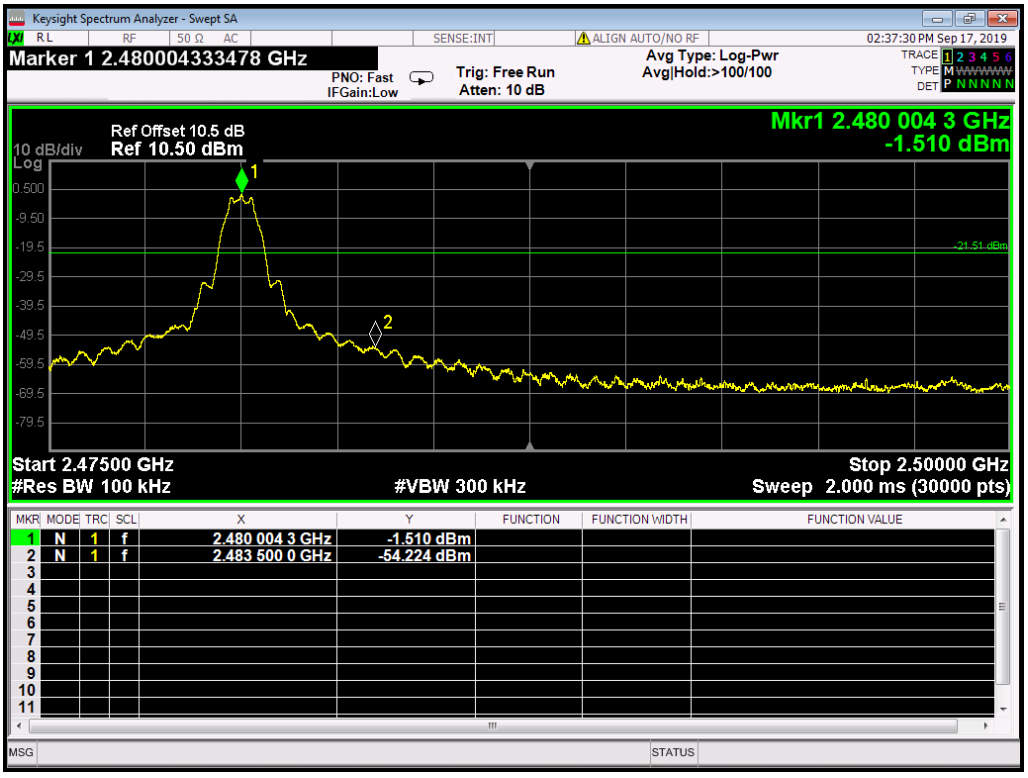


Highest channel (2480MHz)
0.01GHz-26.5GHz




2.475GHz-2.5GHz



# 12. RESTRICTED BANDSOF OPERATION

## 12.1.LIMITS

Section 15.247(d) 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) (see §15.205(c)).

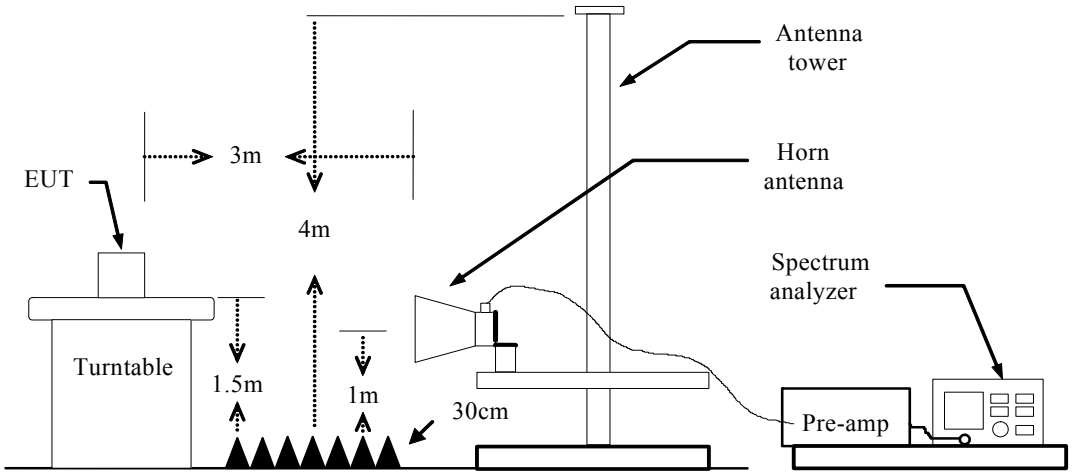
| MHz | MHz | MHz | GHz |
|---|---|---|---|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| [1]0.495 - 0.505 | 16.69475 - | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.69525 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 16.80425 - | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 16.80475 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 25.5 - 25.67 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 37.5 - 38.25 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 73 - 74.6 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 74.8 - 75.2 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 108 - 121.94 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 123 - 138 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 149.9 - 150.05 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 156.52475 - | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 156.52525 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - | 156.7 - 156.9 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.52025 | 162.0125 - 167.17 | 3600 - 4400 | |
| 12.57675 - | 167.72 - 173.2 | | |
| 12.57725 | 240 - 285 | | |
| 13.36 - 13.41 | 322 - 335.4 | | |

## 12.2.TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Meas Guidance v03r01.

1) The EUT is placed on a turntable, which is 1.5m above the ground plane.
2) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4) Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
   a) PEAK: RBW=1MHz / VBW=1MHz / Sweep=AUTO
   b) AVERAGE: RBW=1MHz / VBW=1/T / Sweep=AUTO
5) Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

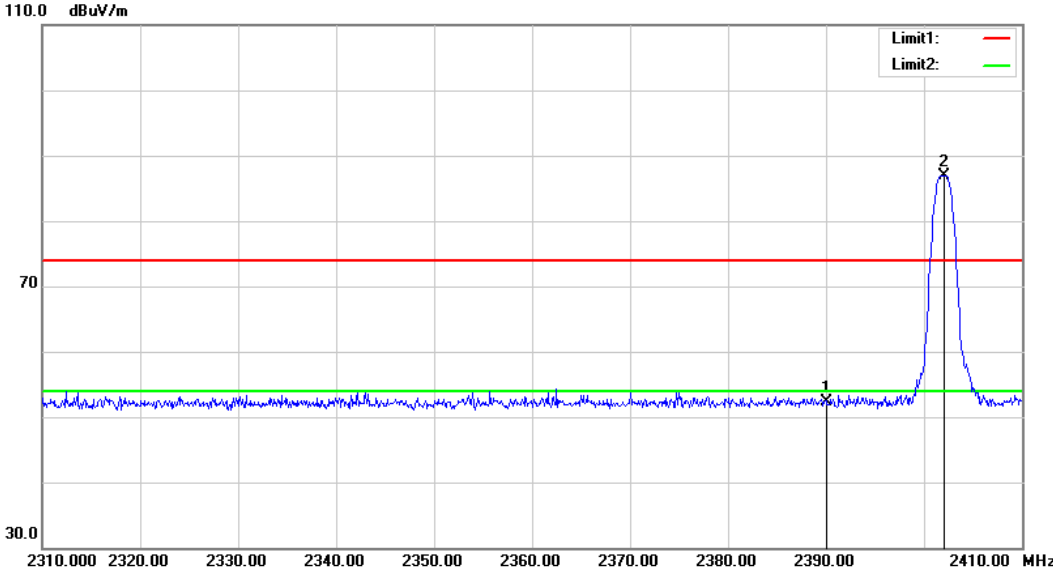
# 12.3.TEST SETUP



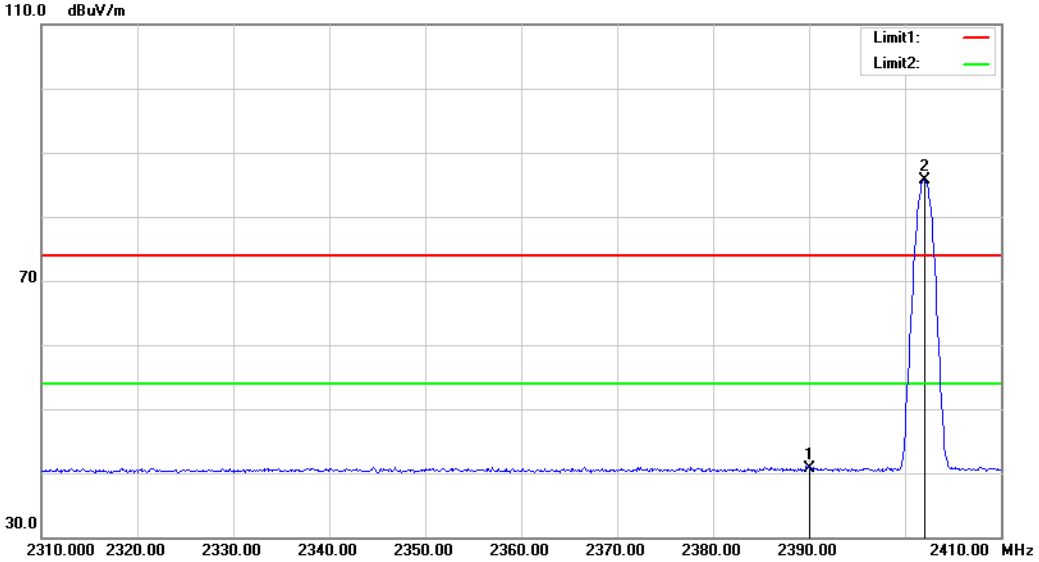
# 12.4.TEST RESULTS

**Lowest Channel**

Detector mode: Peak Polarity: Vertical



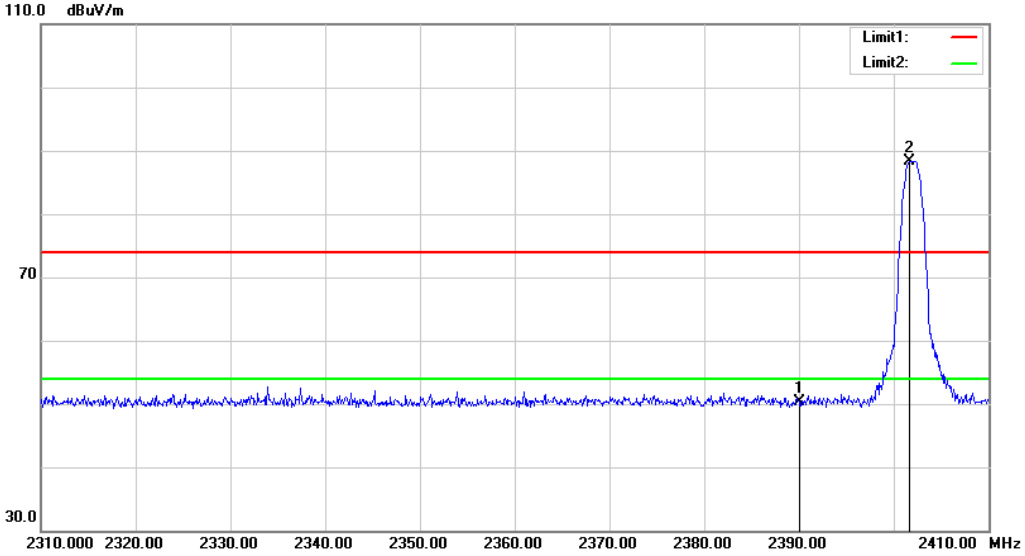

Detector mode: Average Polarity: Vertical



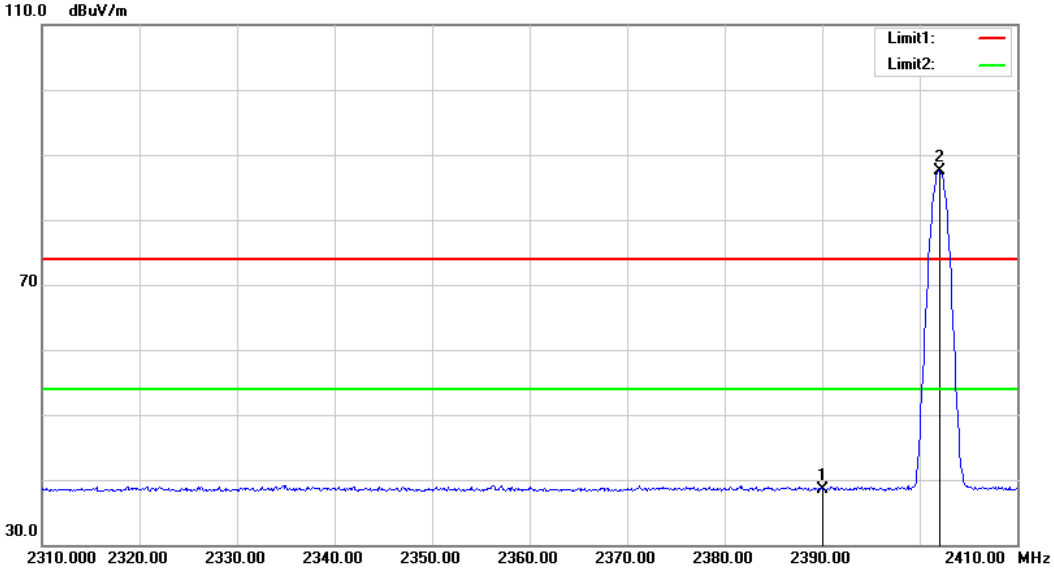

| No. | Frequency MHz | Reading dBuV | Factor dB | Result dBuV/m | Limit dBuV/m | Margin dB | Remark | Pole |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 53.88 | -1.48 | 52.40 | 74.00 | -21.60 | Peak | Vertical |
| 2 | 2402.000 | 88.34 | -1.46 | --- | 74.00 | --- | Peak | Vertical |
| 1 | 2390.000 | 42.16 | -1.48 | 40.68 | 54.00 | -13.32 | Average | Vertical |
| 2 | 2402.000 | 87.16 | -1.46 | --- | 54.00 | --- | Average | Vertical |

**Lowest Channel**

Detector mode: Peak Polarity: Horizontal



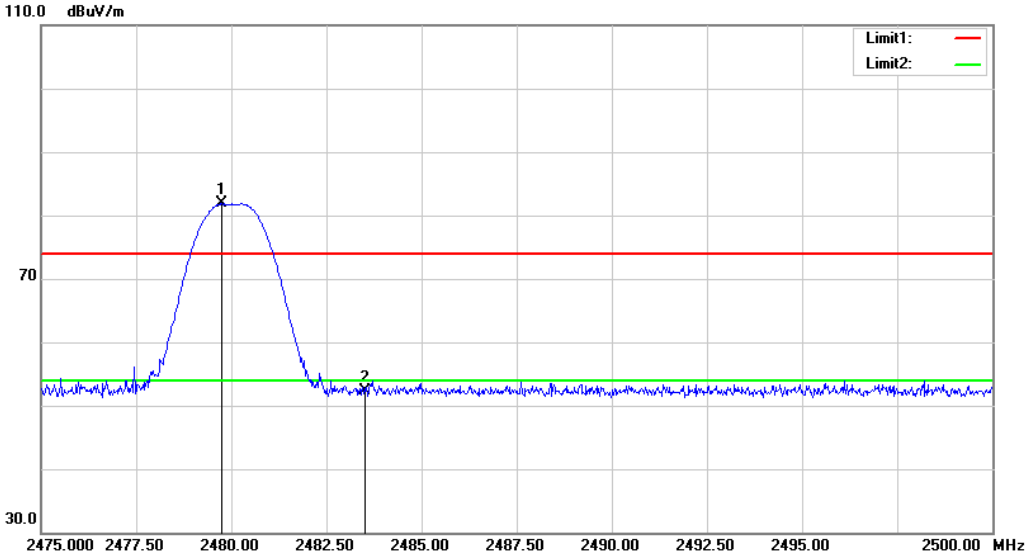

Detector mode: Average Polarity: Horizontal



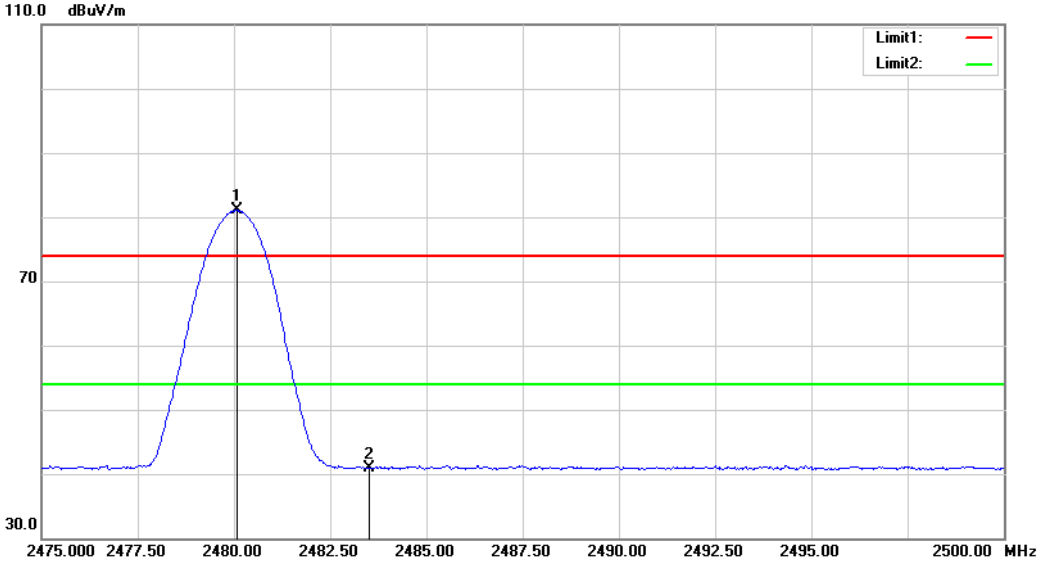

| No. | Frequency MHz | Reading dBuV | Factor dB | Result dBuV/m | Limit dBuV/m | Margin dB | Remark | Pole |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 53.77 | -3.41 | 50.36 | 74.00 | -23.64 | Peak | Horizontal |
| 2 | 2401.700 | 91.65 | -3.39 | --- | 74.00 | --- | Peak | Horizontal |
| 1 | 2390.000 | 41.98 | -3.41 | 38.57 | 54.00 | -15.43 | Average | Horizontal |
| 2 | 2402.100 | 90.90 | -3.39 | --- | 54.00 | --- | Average | Horizontal |

**Highest channel**

Detector mode: Peak Polarity: Vertical



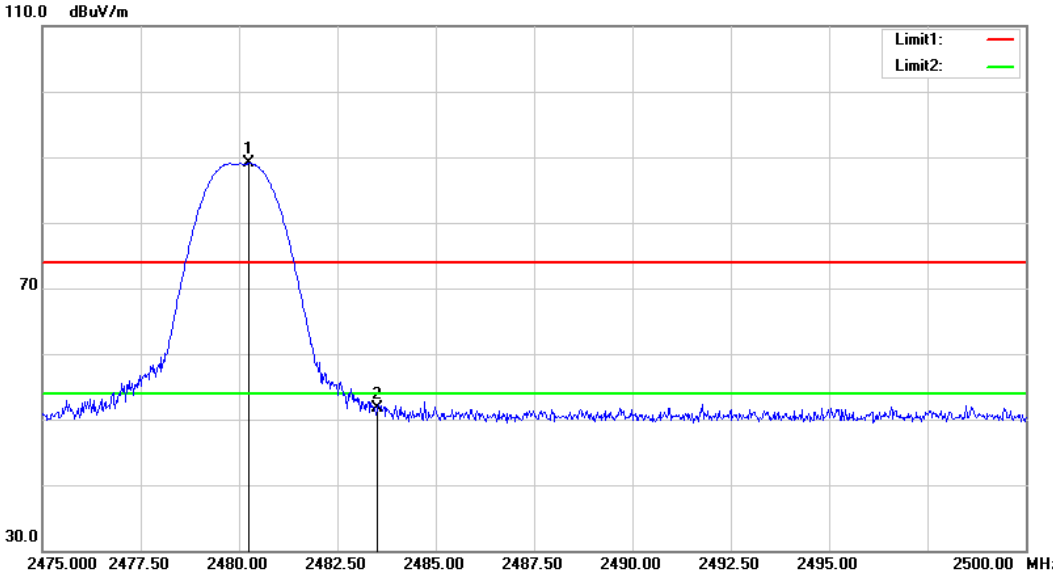

Detector mode: Average Polarity: Vertical



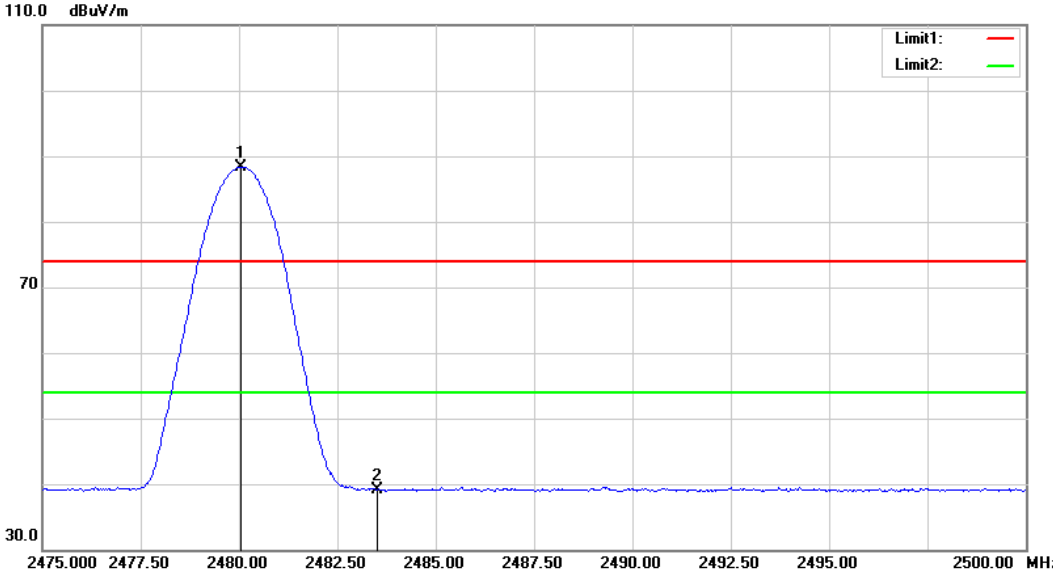

| No. | Frequency MHz | Reading dBuV | Factor dB | Result dBuV/m | Limit dBuV/m | Margin dB | Remark | Pole |
|---|---|---|---|---|---|---|---|---|
| 1 | 2479.750 | 83.11 | -1.28 | --- | 74.00 | --- | Peak | Vertical |
| 2 | 2483.500 | 53.58 | -1.27 | 52.31 | 74.00 | -21.69 | Peak | Vertical |
| 1 | 2480.075 | 82.37 | -1.28 | --- | 54.00 | --- | Average | Vertical |
| 2 | 2483.500 | 42.11 | -1.27 | 40.84 | 54.00 | -13.16 | Average | Vertical |

**Highest channel**

Detector mode: Peak Polarity: Horizontal




Detector mode: Average Polarity: Horizontal

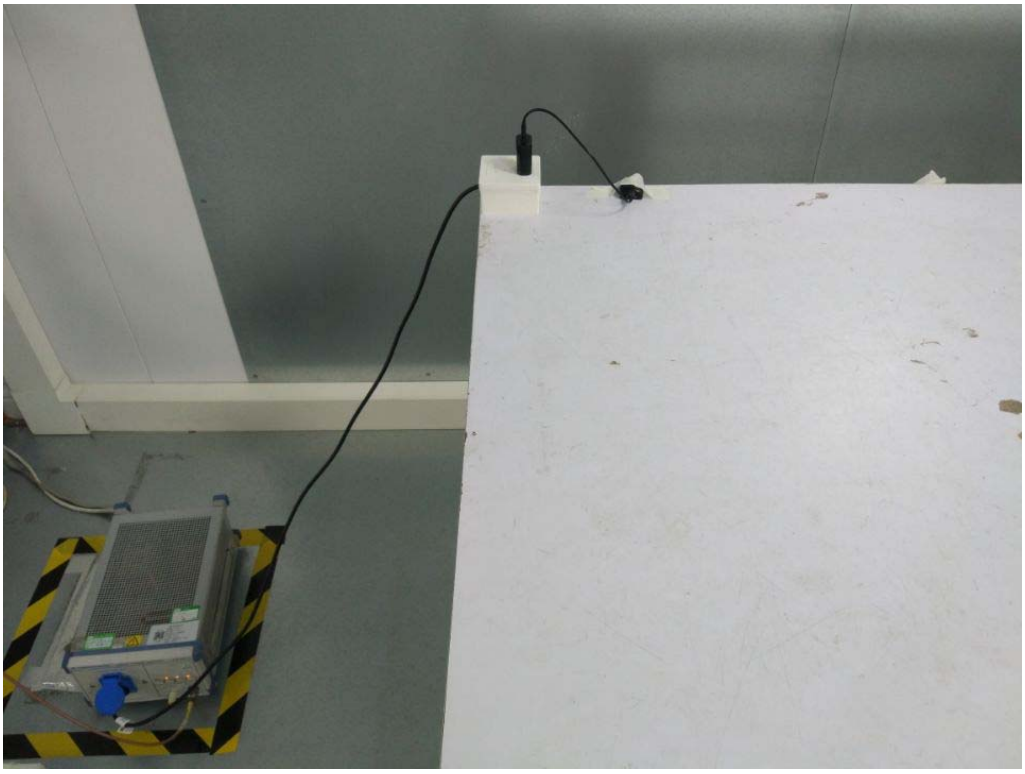



| No. | Frequency MHz | Reading dBuV | Factor dB | Result dBuV/m | Limit dBuV/m | Margin dB | Remark | Pole |
|---|---|---|---|---|---|---|---|---|
| 1 | 2480.250 | 92.30 | -3.26 | --- | 74.00 | --- | Peak | Horizontal |
| 2 | 2483.500 | 55.02 | -3.25 | 51.77 | 74.00 | -22.23 | Peak | Horizontal |
| 1 | 2480.050 | 91.64 | -3.26 | --- | 54.00 | --- | Average | Horizontal |
| 2 | 2483.500 | 42.40 | -3.25 | 39.15 | 54.00 | -14.85 | Average | Horizontal |

Remark: Max field strength in 3m distance. No any other emission which falls in restricted bands can be detected and be reported.

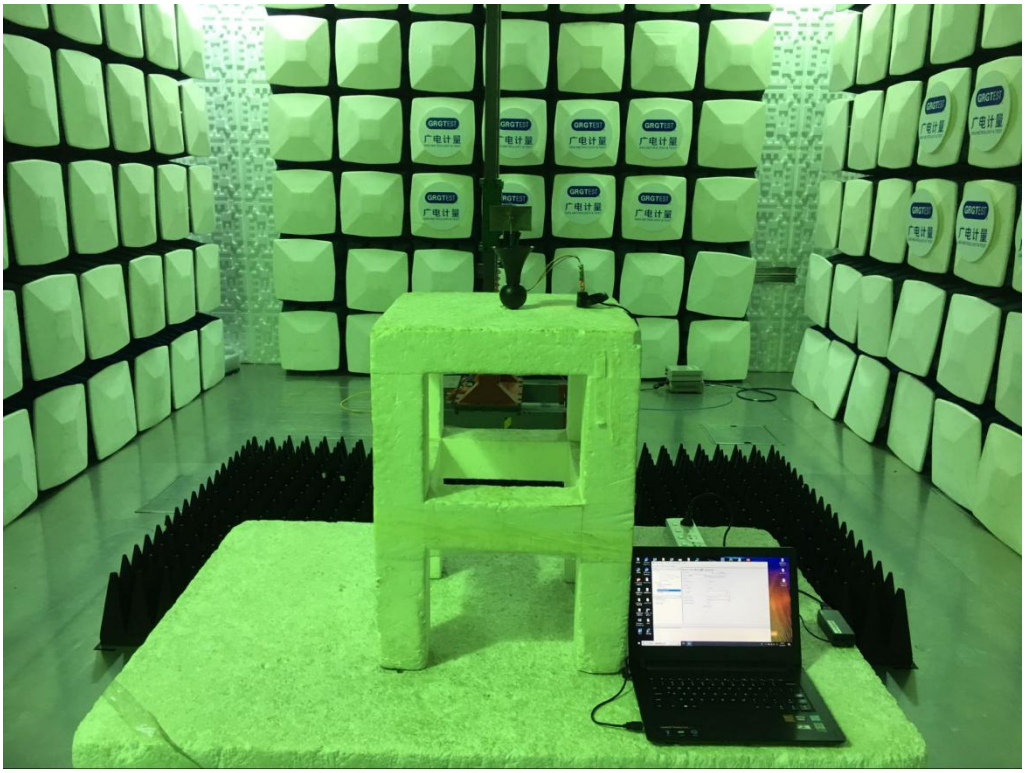
# APPENDIX A: PHOTOGRAPH OF THE TEST ARRANGEMENT

CE



RSE（Below 1GHz）

RSE（Above 1GHz）



# APPENDIX E: THECUSTOMER STATEMENT

## Product Model Designation

| Appendix | Category | Description |
|---|---|---|
| A. | Brand | Move It |
| B. | Product | Move It Speed |
| C. | Model Number | MVPB0010 |
| D. | Model Number Series Abbreviation Definition and Range of Use | MV = Move It (Brand)<br>PB = Punch Bag (Product Category*)<br>0 = Product Production Number (from 0-9)<br>0 = Version of hardware revision/refinement (from 1-9)<br>1 = Hardware features differentiation (from 0-9)<br>0 = Designation for accessory bundles (from 0-9)<br><br>----------<br>*Product Category Abbreviations<br>----------<br>SS for smart sensor<br>PB for punch bag |
| E. | Sample List of Associated Model Numbers | MVSS1000 |

| | | | |
|---|---|---|---|
| MVPB0001 | MVPB0011 | MVPB0111 | MVPB0211 |
| MVPB0002 | MVPB0012 | MVPB0112 | MVPB0212 |
| MVPB0003 | MVPB0013 | MVPB0113 | MVPB0213 |
| MVPB0004 | MVPB0014 | MVPB0114 | MVPB0214 |
| MVPB0005 | MVPB0015 | MVPB0115 | MVPB0215 |
| MVPB0006 | MVPB0016 | MVPB0116 | MVPB0216 |
| MVPB0007 | MVPB0017 | MVPB0117 | MVPB0217 |
| MVPB0008 | MVPB0018 | MVPB0118 | MVPB0218 |
| MVPB0009 | MVPB0019 | MVPB0119 | MVPB0219 |

| F. | **Model Number Variations In Detail** |
|---|---|

All the model numbers listed in Appendix E share the same smart sensor module (designated as MVSS1000) as MVPB0010, with minor differences in exterior design and included accessories. The first four letters and the first number digit of the 8 digit model number (MVPB0 _ _ _) will always remain the same, where the ending 3 digits of the product series will increase in value depending on its revision version, cosmetic or feature version, and the type of accessory bundle.

As an example, MVPB0010 is the first model designated for the overseas international market, and MVPB0001 is another model designated for the China market. Comparing model MVPB0010 with MVPB0001, the difference from MVPB0010, is in the color and material of the exterior design (using gold & black instead of red & black), the addition of a rebound speed adjustment cap located at the spring, and the inclusion of a more padded version for the glove accessory.

Essentially, minor variations between model numbers are created to better cater for the different regional demands.

Eggplant Technologies Ltd.
Correspondent: Oscar Wong
September 9, 2019

**----------This is the last page of the report. ----------**