

## NCC RADIO TEST REPORT

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| <b>Product name</b>                | SwitchBot Hub Mini                                   |
| <b>Applicant</b>                   | 臥安科技（深圳）有限公司<br>Woan Technology (Shenzhen) Co., Ltd. |
| <b>Manufacture</b>                 | 臥安科技（深圳）有限公司<br>Woan Technology (Shenzhen) Co., Ltd. |
| <b>Rating(s)</b>                   | DC5V from adapter                                    |
| <b>Trademark</b>                   | SwitchBot                                            |
| <b>Model and/or type reference</b> | W0202200                                             |
| <b>Standard</b>                    | LP0002:2018                                          |
| <b>Test Result</b>                 | PASS                                                 |

Date of receipt : 03-30-2020

Date of Issue : 04-03-2020

signature :



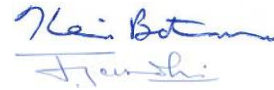
## NCC RADIO TEST REPORT

**Report Reference No.**..... : M200330N3-01

Compiled by (+ signature) ..... Kevin Bothmann

Approved by (+ signature)..... Jay Gandhi

Date of issue..... : 2020-04-03



**Applicant's name** ..... : 臥安科技（深圳）有限公司  
 Woan Technology (Shenzhen) Co., Ltd.  
**Address** ..... : 深圳市寶安區西鄉街道鹽田社區銀田路華豐寶安智谷科技創新園 A 座 708-715  
 Room 708-715, Building A, HuafengBao' anZhigu Technology Innovation Park, Yintian Road, Xixiang Street, Bao' an District, Shenzhen, Guangdong, P. R. China, 518102  
**Manufacture's Name** ..... : 臥安科技（深圳）有限公司  
 Woan Technology (Shenzhen) Co., Ltd.  
**Address** ..... : 深圳市寶安區西鄉街道鹽田社區銀田路華豐寶安智谷科技創新園 A 座 708-715  
 Room 708-715, Building A, HuafengBao' anZhigu Technology Innovation Park, Yintian Road, Xixiang Street, Bao' an District, Shenzhen, Guangdong, P. R. China, 518102

**Test specification:**

Standard ..... : LP0002: 2018

Test procedure ..... : EIA 603、ANSI、FCC/47 CFR/2.1046、2.1047、2.1049、2.1051、2.1053 and 2.1055

Non-standard test method..... : N/A

**Test item description**

Product name ..... : SwitchBot Hub Mini

Trademark ..... : SwitchBot

Model and/or type reference ..... : W0202200

Rating(s) ..... : DC5V from adapter

**Testing Laboratory information:**

Testing Laboratory Name ..... : Electro Magnetic Test, Inc.

Address ..... : 1547 Plymouth Street, Mountain View, CA 94043

CAB Identifier Number ..... : US0036

Tel ..... : (650) 965-4000

Fax ..... : (650) 965-3000

E-mail ..... : jgandhi@emtlabs.com

**Testing**..... :

Date of receipt of test item..... : Mar. 30, 2020

Date (s) of performance of tests..... : Mar. 30~ Apr. 02, 2020

Date of Issue .....: Apr. 03, 2020

Test Result .....: **Pass**

**GENERAL REPORT SUMMARY**

This electromagnetic emission test report is generated by Electro Magnetic Test, Inc., which is an independent testing and consulting firm. The test report is based on testing performed Electro Magnetic Test, Inc. personnel according to the measurement procedure described in the test specification given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced in any form unless done so in full.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Federal Government.

Electro Magnetic Test, Inc. is recognized by the following agencies for performing EMI/EMC testing:

| <b>COUNTRY</b>                                                       | <b>AGENCY</b>                                                                                                                                                                                                                              | <b>IDENTIFYING #</b>               |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| USA                                                                  | Federal Communications Commission (FCC)<br>(EMT's test site is recognized by the FCC)                                                                                                                                                      | Registration Number:<br>90576      |
| USA, Canada, Taiwan,<br>Australia/New Zealand,<br>European Community | National Voluntary Lab Accreditation Program (NVLAP)<br>(EMT is accredited by NVLAP. A copy of the NVLAP<br>Scope Of Accreditation is available upon request.)                                                                             | Lab Code: 200147-0                 |
| Canada                                                               | Industry Canada                                                                                                                                                                                                                            | File No.: IC 2804                  |
| Japan                                                                | Voluntary Control Council For Interference (VCCI)                                                                                                                                                                                          | See Below                          |
|                                                                      | Open Field Test Site "A"                                                                                                                                                                                                                   | R-589                              |
|                                                                      | Mains Conducted Emissions Test Site "A"                                                                                                                                                                                                    | C-604                              |
|                                                                      | Telecom Conducted Emissions Test Site "A"                                                                                                                                                                                                  | T-1655                             |
|                                                                      | 3 Meter Semi-Anechoic Chamber Site "E"                                                                                                                                                                                                     | R-3227                             |
|                                                                      | 3 Meter Semi-Anechoic Chamber Site "E" (1GHz – 6GHz)                                                                                                                                                                                       | G-219                              |
|                                                                      | Mains Conducted Emissions Test Site "E"                                                                                                                                                                                                    | C-35793                            |
|                                                                      | Telecom Conducted Emissions Test Site "E"                                                                                                                                                                                                  | T-1715                             |
| Korea                                                                | Ministry of Information and Communication's Radio<br>Research Laboratory (RRL) under the Asia Pacific<br>Economic Cooperation (APEC) Mutual Recognition<br>Arrangement (A copy of the Scope Of Accreditation is<br>available upon request) | US0036                             |
| Taiwan                                                               | Bureau Of Standards, Metrology and Inspection (BSMI)                                                                                                                                                                                       | Reference Number:<br>SL2-IN-E-1024 |
| Australia / New Zealand                                              | Australian Communications Authority (AUSTEL)                                                                                                                                                                                               | *                                  |

**\*THESE AGENCIES DO NOT ISSUE AN IDENTIFYING NUMBER TO TEST LABS.**

| <b>Table of Contents</b>                                    | <b>Page</b> |
|-------------------------------------------------------------|-------------|
| <b>GENERAL REPORT SUMMARY</b>                               | <b>4</b>    |
| <b>1 . SUMMARY OF TEST RESULTS</b>                          | <b>7</b>    |
| 1.1 MEASUREMENT UNCERTAINTY                                 | 8           |
| <b>2 . GENERAL INFORMATION</b>                              | <b>9</b>    |
| 2.1 GENERAL DESCRIPTION OF EUT                              | 9           |
| 2.2 DESCRIPTION OF TEST MODES                               | 11          |
| 2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING            | 11          |
| 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED | 12          |
| 2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)            | 14          |
| <b>3 . EMC EMISSION TEST</b>                                | <b>17</b>   |
| 3.1 CONDUCTED EMISSION MEASUREMENT                          | 17          |
| 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS                  | 17          |
| 3.1.2 TEST PROCEDURE                                        | 18          |
| 3.1.3 DEVIATION FROM TEST STANDARD                          | 18          |
| 3.1.4 TEST SETUP                                            | 18          |
| 3.1.5 TEST RESULTS                                          | 19          |
| 3.2 RADIATED EMISSION MEASUREMENT                           | 21          |
| 3.2.1 RADIATED EMISSION LIMITS                              | 21          |
| 3.2.2 TEST PROCEDURE                                        | 22          |
| 3.2.3 TEST SETUP                                            | 23          |
| 3.2.4 EUT OPERATING CONDITIONS                              | 23          |
| 3.2.5 TEST RESULTS (BETWEEN30 – 1000 MHZ)                   | 24          |
| 3.2.6 TEST RESULTS (ABOVE 1000 MHZ)                         | 28          |
| 3.2.7 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)          | 68          |
| <b>4 . OCCUPIED BANDWIDTH TEST</b>                          | <b>74</b>   |
| 4.1 APPLIED PROCEDURES / LIMIT                              | 74          |
| 4.1.1 TEST PROCEDURE                                        | 74          |
| 4.1.2 TEST SETUP                                            | 74          |
| 4.1.3 EUT OPERATION CONDITIONS                              | 74          |
| 4.1.4 TEST RESULTS                                          | 75          |
| <b>5 . POWER DENSITY</b>                                    | <b>81</b>   |
| 5.1 APPLIED PROCEDURES / LIMIT                              | 81          |
| 5.1.1 TEST PROCEDURE                                        | 81          |
| 5.1.2 TEST SETUP                                            | 81          |
| 5.1.3 EUT OPERATION CONDITIONS                              | 81          |
| 5.1.4 TEST RESULTS                                          | 82          |

| <b>Table of Contents</b>                                      | <b>Page</b> |
|---------------------------------------------------------------|-------------|
| <b>6 . PEAK OUTPUT POWER TEST</b>                             | <b>88</b>   |
| <b>6.1 APPLIED PROCEDURES / LIMIT</b>                         | <b>88</b>   |
| <b>6.1.1 TEST PROCEDURE</b>                                   | <b>88</b>   |
| <b>6.1.2 DEVIATION FROM STANDARD</b>                          | <b>88</b>   |
| <b>6.1.3 TEST SETUP</b>                                       | <b>88</b>   |
| <b>6.1.4 EUT OPERATION CONDITIONS</b>                         | <b>88</b>   |
| <b>6.1.5 TEST RESULTS</b>                                     | <b>89</b>   |
| <b>7 . ANTENNA CONDUCTED SPURIOUS EMISSION</b>                | <b>90</b>   |
| <b>7.1 APPLIED PROCEDURES / LIMIT</b>                         | <b>90</b>   |
| <b>7.1.1 TEST PROCEDURE</b>                                   | <b>90</b>   |
| <b>7.1.2 TEST SETUP</b>                                       | <b>90</b>   |
| <b>7.1.3 EUT OPERATION CONDITIONS</b>                         | <b>90</b>   |
| <b>7.1.4 TEST RESULTS</b>                                     | <b>91</b>   |
| <b>9. ANTENNA REQUIREMENT</b>                                 | <b>106</b>  |
| <b>9.1 STANDARD REQUIREMENT</b>                               | <b>106</b>  |
| <b>9.2 EUT ANTENNA</b>                                        | <b>106</b>  |
| <b>10. EUT TEST PHOTO</b>                                     | <b>107</b>  |
| <b>11. APPENDIX-Photographs of EUT Constructional Details</b> |             |

## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| LP0002 : 2018    |                                     |          |        |
|------------------|-------------------------------------|----------|--------|
| Standard Section | Test Item                           | Judgment | Remark |
| 2.3              | Conducted Emission                  | PASS     | None   |
| 3.10.1.5/2.8     | Radiated Spurious Emission          | PASS     | None   |
| 3.10.1.2         | Peak Output Power                   | PASS     | None   |
| 3.10.1.6         | 6dB Occupied Bandwidth              | PASS     | None   |
| 3.10.1.6         | Power Density                       | PASS     | None   |
| 3.10.1.5/2.8     | Restricted Bands                    | PASS     | None   |
| 3.10.1.5/2.8     | ANTENNA CONDUCTED SPURIOUS EMISSION | PASS     | None   |
| 3.10.1.3         | Antenna Requirement                 | PASS     | None   |
| 3.10.1.5/2.3/2.8 | Receiver Emissions                  | PASS     | None   |

NOTE:

(1) "N/A" denotes test is not applicable in this test report.

### 1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95** %.

| No. | Item                         | Uncertainty |
|-----|------------------------------|-------------|
| 1   | Conducted Emission Test      | 1.38dB      |
| 2   | Radiated Emission Test       | 3.17dB      |
| 3   | RF power,conducted           | 0.16dB      |
| 4   | Spurious emissions,conducted | 0.21dB      |
| 5   | All emissions,radiated(<1G)  | 4.68dB      |
| 6   | All emissions,radiated(>1G)  | 4.89dB      |

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                        |                                   |                                                                                            |
|------------------------|-----------------------------------|--------------------------------------------------------------------------------------------|
| Equipment              | SwitchBot Hub Mini                |                                                                                            |
| Trade Name             | SwitchBot                         |                                                                                            |
| Model Name             | W0202200                          |                                                                                            |
| Serial Model Name      | N/A                               |                                                                                            |
| Product Description    | The EUT is a SwitchBot Hub Mini   |                                                                                            |
|                        | Operation Frequency:              | 2412~2462 MHz@802.11b/g/n20                                                                |
|                        | Modulation Type:                  | BPSK/QPSK16-QAM/64-QAM                                                                     |
|                        | Bit Rate of Transmitter           | 802.11b: 1/2/5.5/11Mbps<br>802.11g:<br>6/9/12/18/24/36/48/54Mbps<br>802.11n: up to 150Mbps |
|                        | Number Of Channel                 | Please see Note 2.                                                                         |
|                        | Antenna Designation:              | PIFA Antenna                                                                               |
|                        | Antenna Gain(Peak)                | Antenna: 3.66 dBi                                                                          |
|                        | Output Power:                     | 802.11b:15.97dBm<br>802.11g: 18.29dBm<br>802.11n20:18.44dBm                                |
| Channel List           | Please refer to the Note 2.       |                                                                                            |
| Power Rating           | DC 5V from Adapter                |                                                                                            |
| Connecting I/O Port(s) | Please refer to the User's Manual |                                                                                            |
| Products Covered       | N/A                               |                                                                                            |
| EUT Modification(s)    | N/A                               |                                                                                            |
| Model difference       | N/A                               |                                                                                            |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

| Channel List       |                 |         |                 |         |                 |         |                 |
|--------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 802.11b/ g/ n(20M) |                 |         |                 |         |                 |         |                 |
| Channel            | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01                 | 2412            | 05      | 2432            | 09      | 2452            | /       | /               |
| 02                 | 2417            | 06      | 2437            | 10      | 2457            | /       | /               |
| 03                 | 2422            | 07      | 2442            | 11      | 2462            | /       | /               |
| 04                 | 2427            | 08      | 2447            | /       | /               | /       | /               |

3.

Table for Filed Antenna

| Ant | Manufacturer                                    | Model Name  | Antenna Type | Connector | Gain (dBi) | NOTE    |
|-----|-------------------------------------------------|-------------|--------------|-----------|------------|---------|
|     | Shenzhen Shuodian Electronic Technology Co.,Ltd | WA-2.4-0424 | PIFA antenna | N/A       | 3.66 dBi   | Antenna |

Note:

1 N/A

## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description            |
|--------------|------------------------|
| Mode 1       | 802.11b: All Rate      |
| Mode 2       | 802.11g: All Rate      |
| Mode 3       | 802.11n(20M): All Rate |
| Mode 4       | RX                     |

| For Conducted Emission |                |
|------------------------|----------------|
| Final Test Mode        | Description    |
| Mode 1                 | TX(worst case) |
| Mode 4                 | RX(worst case) |

| For Radiated Emission |                             |
|-----------------------|-----------------------------|
| Final Test Mode       | Description                 |
| Mode 1                | 802.11b: Rate 1Mbps         |
| Mode 2                | 802.11g: Rate 6Mbps         |
| Mode 3                | 802.11n(20M) : Rate 6.5Mbps |
| Mode 4                | RX(worst case)              |

Note:

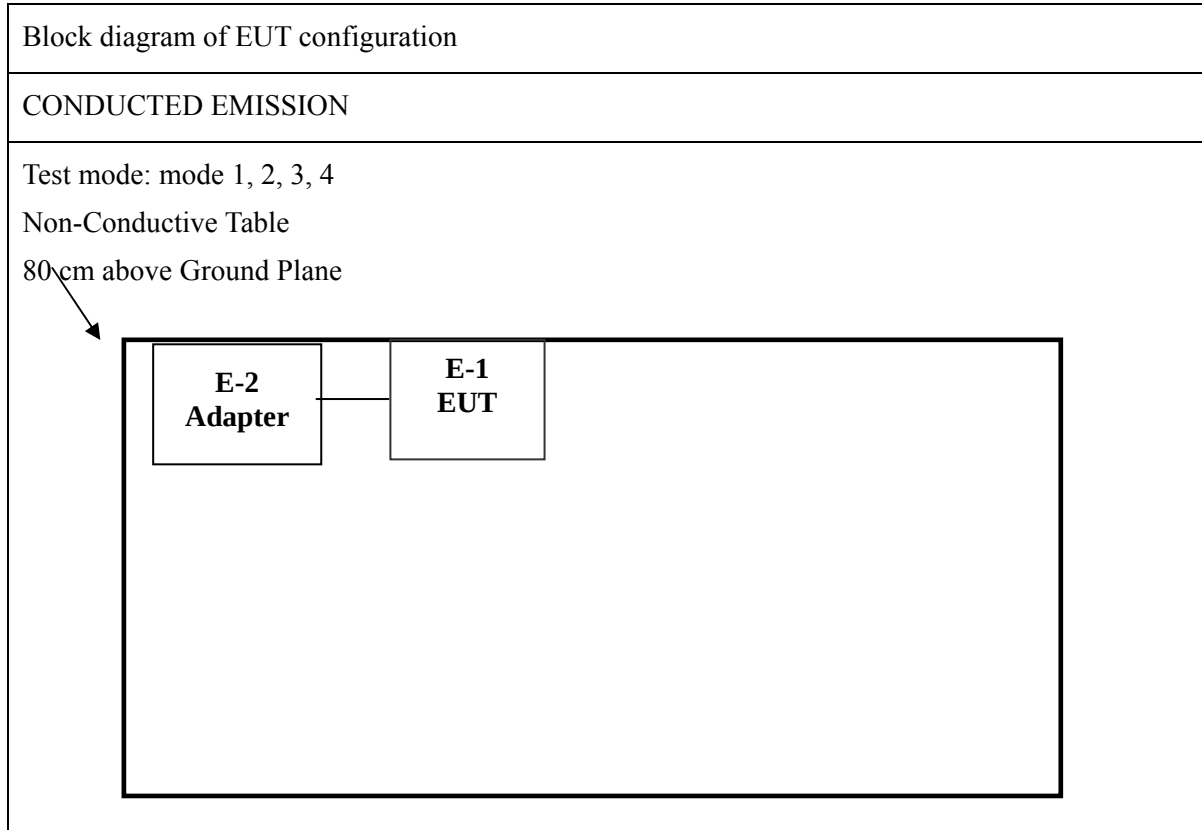
(1) The measurements are performed at the highest, middle, lowest available channels.

## 2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters.

| Test software Version | Test program: espRFTool |          |          |
|-----------------------|-------------------------|----------|----------|
| Frequency             | 2412 MHz                | 2437 MHz | 2462 MHz |

## 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



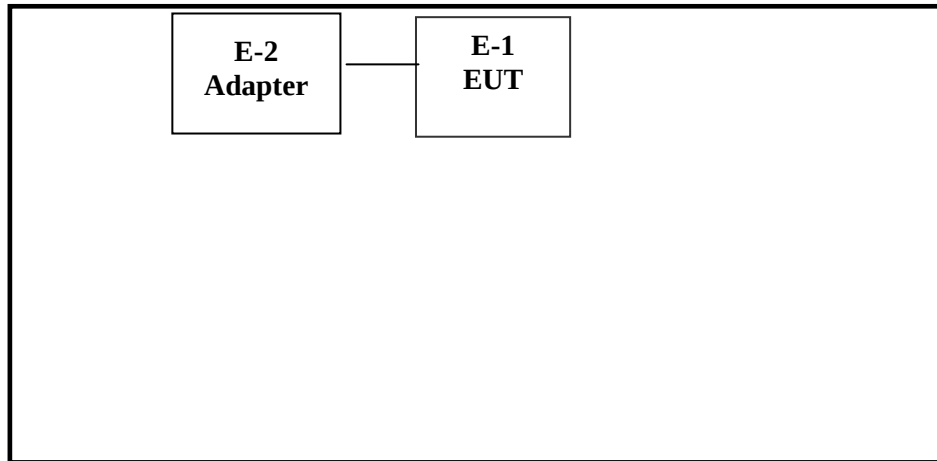
## Block diagram of EUT configuration

### RADIATED EMISSION

Test mode: mode 1, 2, 3 ,4

Non-Conductive Table

80 cm above Ground Plane



## 2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment          | Mfr/Brand | Model/Type No. | FCC ID | Series No. | Note            |
|------|--------------------|-----------|----------------|--------|------------|-----------------|
| E-1  | SwitchBot Hub Mini | SwitchBot | W0202200       | N/A    | N/A        | EUT             |
| E-2  | Adapter            | NOKIA     | F0302          | N/A    | N/A        | Test Accessory* |

| Item | Equipment | Mfr/Brand | Model/Type No. | Note |
|------|-----------|-----------|----------------|------|
| 1#   | USB Cable | SwitchBot | W0202200       | EUT  |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded” or “with ferrite core”; “NO” means “unshielded” or “without ferrite core”
- (4) “\*”: In this report, the applicant did not provide the accompanying accessories with the equipment. The accessories were provided by the laboratory (or the applicant) and inspected simultaneously.

### 2.5.1 EQUIPMENTS LIST FOR ALL TEST ITEMS

| EQUIPMENT TYPE       | MANU-FACTURER   | MODEL NUMBER | SERIAL NUMBER | CAL. DATE          | CAL. CYCLE |
|----------------------|-----------------|--------------|---------------|--------------------|------------|
| Spectrum Analyzer    | Hewlett Packard | 8566B        | 3013A07296    | April 29, 2019     | 1 Year     |
| RF Preselector       | Hewlett Packard | 85685A       | 3010A01157    | April 29, 2019     | 1 Year     |
| Quasi-Peak Adapter   | Hewlett Packard | 85650        | 2521A00584    | April 29, 2019     | 1 Year     |
| Preamplifier         | Com Power       | PA-102       | 1482          | April 29, 2019     | 1 Year     |
| RF Attenuator        | Mini-Circuits   | CAT-10       | Asset #1000   | December 8, 2019   | 1 Year     |
| LISN                 | Com Power       | LI-200       | 12012         | September 10, 2019 | 1 Year     |
| LISN                 | Com Power       | LI-200       | 12214         | September 10, 2019 | 1 Year     |
| LISN                 | Com Power       | LI-200       | 1767          | September 10, 2019 | 1 Year     |
| LISN                 | Com Power       | LI-200       | 1768          | September 10, 2019 | 1 Year     |
| Biconical Antenna    | Com Power       | AB-100       | 01557         | December 29, 2019  | 1 Year     |
| Log Periodic Antenna | Com Power       | AL-100       | 16037         | December 22, 2019  | 1 Year     |
| Horn Antenna         | Com Power       | AHA-118      | 711054        | December 22, 2019  | 1 Year     |
| Antenna Mast         | Com Power       | AM-400       | N/A           | N/A                | N/A        |
| Turntable            | Com Power       | TT-100       | N/A           | N/A                | N/A        |
| Computer             | Dell, Inc.      | DHS          | DNSV641       | N/A                | N/A        |
| Printer              | Hewlett Packard | C8124A       | CN39B2234T    | N/A                | N/A        |
| Plotter              | Hewlett Packard | 7470A        | 2308A96499    | N/A                | N/A        |

**EMI Test Equipment (Continued)**

| EQUIPMENT TYPE            | MANU-FACTURER   | MODEL NUMBER | SERIAL NUMBER | CAL. DATE       | CAL. CYCLE |
|---------------------------|-----------------|--------------|---------------|-----------------|------------|
| EMI Receiver              | Rohde & Schwarz | ESU40        | 100127        | June 12, 2019   | 1 Year     |
| BiConiLog Antenna         | ETS-Lindgren    | 3142D        | 00102183      | August 14, 2019 | 1 Year     |
| Horn Antenna              | ETS-Lindgren    | 3117         | 00109294      | May 6, 2019     | 1 Year     |
| Preamplifier              | Rohde & Schwarz | TS-PR18      | 100056        | June 12, 2019   | 1 Year     |
| Antenna Mast              | ETS-Lindgren    | 2175         | 00095727      | N/A             | N/A        |
| Turntable                 | ETS-Lindgren    | 2187-3.0     | 00118231      | N/A             | N/A        |
| Computer                  | Acer            | Aspire 8930  | 85100050123   | N/A             | N/A        |
| Multi-Function Controller | ETS-Lindgren    | 2090         | 00102270      | N/A             | N/A        |
| Loop Antenna              | ARA             | PLA-1030/B   | 1029          | May 19, 2019    | 1 Year     |

### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150kHz-30MHz)

| FREQUENCY (MHz) | Class A (dBuV) |         | Class B (dBuV) |           | Standard |
|-----------------|----------------|---------|----------------|-----------|----------|
|                 | Quasi-peak     | Average | Quasi-peak     | Average   |          |
| 0.15 -0.5       |                |         | 66 - 56 *      | 56 - 46 * | CISPR    |
| 0.50 -5.0       |                |         | 56.00          | 46.00     | CISPR    |
| 5.0 -30.0       |                |         | 60.00          | 50.00     | CISPR    |

|           |  |  |           |           |        |
|-----------|--|--|-----------|-----------|--------|
| 0.15 -0.5 |  |  | 66 - 56 * | 56 - 46 * | LP0002 |
| 0.50 -5.0 |  |  | 56.00     | 46.00     | LP0002 |
| 5.0 -30.0 |  |  | 60.00     | 50.00     | LP0002 |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

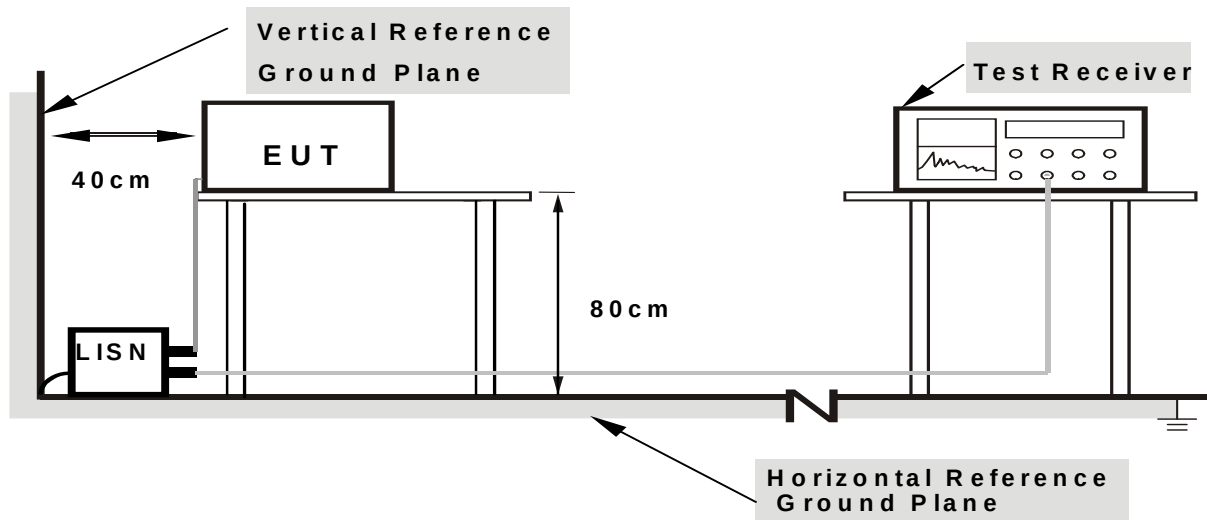
### 3.1.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.1.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.1.4 TEST SETUP

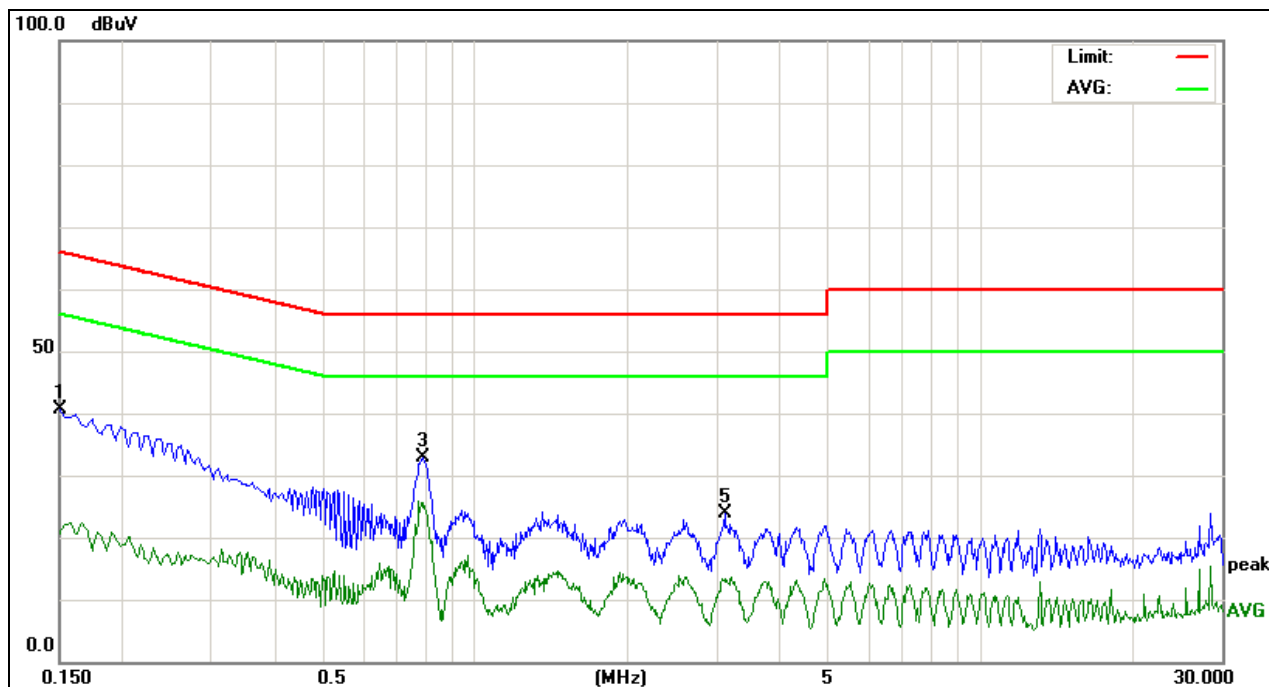


**Note: 1.**Support units were connected to second LISN.

**2.**Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

## 3.1.5 TEST RESULTS

|                |                    |                     |            |
|----------------|--------------------|---------------------|------------|
| EUT :          | SwitchBot Hub Mini | Model Name. :       | W0202200   |
| Temperature :  | 26 °C              | Relative Humidity : | 54%        |
| Pressure :     | 1010hPa            | Test Date :         | 2020-04-01 |
| Test Mode :    | TX(worst case)     | Phase :             | L          |
| Test Voltage : | DC 5V from Adapter |                     |            |

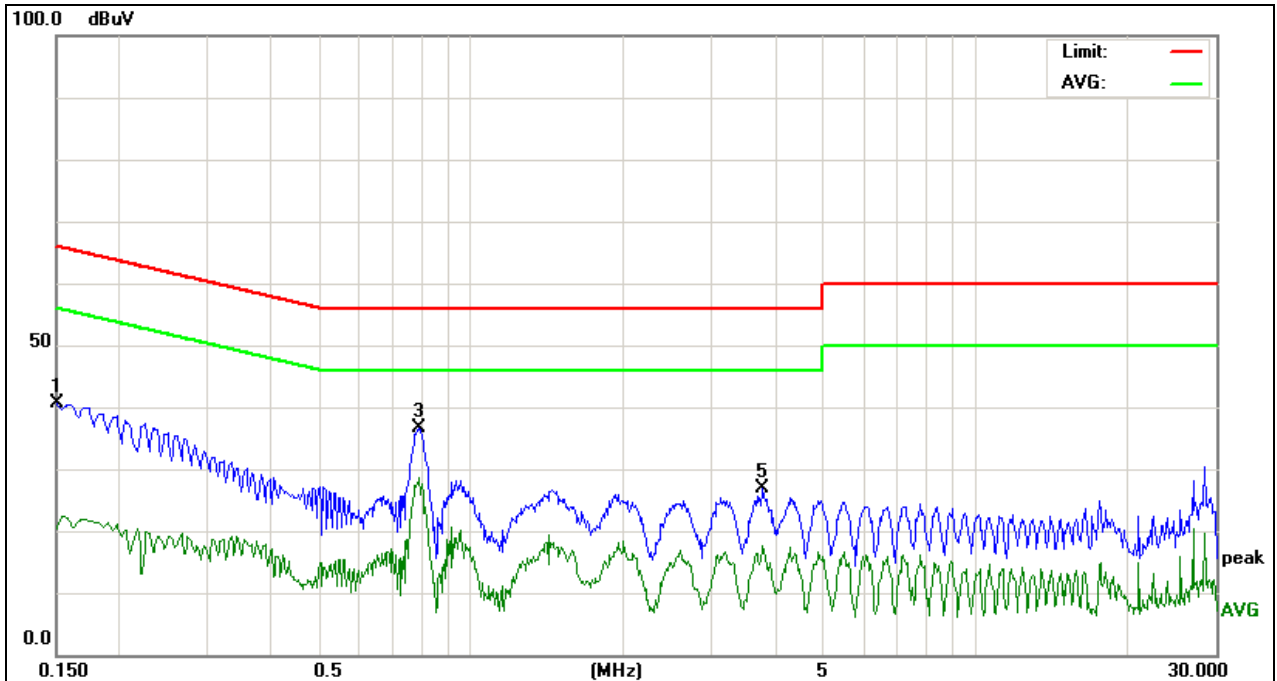


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = LISN factor + Cable Loss + Pulse limiter.

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1   |     | 0.1499       | 28.76                    | 11.94                   | 40.70                    | 66.00         | -25.30     | peak     |
| 2   |     | 0.1499       | 10.39                    | 11.94                   | 22.33                    | 56.00         | -33.67     | AVG      |
| 3   |     | 0.7860       | 22.83                    | 9.96                    | 32.79                    | 56.00         | -23.21     | peak     |
| 4   | *   | 0.7860       | 15.84                    | 9.96                    | 25.80                    | 46.00         | -20.20     | AVG      |
| 5   |     | 3.1220       | 13.78                    | 10.03                   | 23.81                    | 56.00         | -32.19     | peak     |
| 6   |     | 3.1220       | 3.91                     | 10.03                   | 13.94                    | 46.00         | -32.06     | AVG      |

|                |                    |                     |            |
|----------------|--------------------|---------------------|------------|
| EUT :          | SwitchBot Hub Mini | Model Name. :       | W0202200   |
| Temperature :  | 26 °C              | Relative Humidity : | 54%        |
| Pressure :     | 1010hPa            | Test Date :         | 2020-04-01 |
| Test Mode :    | TX(worst case)     | Phase :             | N          |
| Test Voltage : | DC 5V from Adapter |                     |            |



Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = LISN factor + Cable Loss + Pulse limiter.

| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector |
| 1   |     | 0.1500 | 28.80         | 11.94          | 40.74       | 65.99 | -25.25 | peak     |
| 2   |     | 0.1500 | 10.52         | 11.94          | 22.46       | 55.99 | -33.53 | AVG      |
| 3   |     | 0.7900 | 26.57         | 9.96           | 36.53       | 56.00 | -19.47 | peak     |
| 4   | *   | 0.7900 | 18.63         | 9.96           | 28.59       | 46.00 | -17.41 | AVG      |
| 5   |     | 3.7940 | 16.73         | 10.05          | 26.78       | 56.00 | -29.22 | peak     |
| 6   |     | 3.7940 | 7.51          | 10.05          | 17.56       | 46.00 | -28.44 | AVG      |

### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 2.7, then the 2.8 limit in the table below has to be followed.

| Frequencies<br>(MHz) | Field Strength<br>(microvolt/meter) | Measurement Distance<br>(meters) |
|----------------------|-------------------------------------|----------------------------------|
| 0.009~0.490          | 2400/F(kHz)                         | 300                              |
| 0.490~1.705          | 24000/F(kHz)                        | 30                               |
| 1.705~30.0           | 30                                  | 30                               |
| 30~88                | 100                                 | 3                                |
| 88~216               | 150                                 | 3                                |
| 216~960              | 200                                 | 3                                |
| Above 960            | 500                                 | 3                                |

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Class A (dBuV/m) (at 3M) |         | Class B (dBuV/m) (at 3M) |         |
|-----------------|--------------------------|---------|--------------------------|---------|
|                 | PEAK                     | AVERAGE | PEAK                     | AVERAGE |
| Above 1000      | 80                       | 60      | 74                       | 54      |

Notes:

- (1) The limit for radiated test was performed according to LP0002.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

| Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz) | Range (MHz)                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Below 1.705                                                                                                                     | 30                                                                              |
| 1.705 – 108                                                                                                                     | 1000                                                                            |
| 108 – 500                                                                                                                       | 2000                                                                            |
| 500 – 1000                                                                                                                      | 5000                                                                            |
| Above 1000                                                                                                                      | 5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower |

| Spectrum Parameter                    | Setting                                          |
|---------------------------------------|--------------------------------------------------|
| Attenuation                           | Auto                                             |
| Start Frequency                       | 1000 MHz                                         |
| Stop Frequency                        | 10th carrier harmonic                            |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

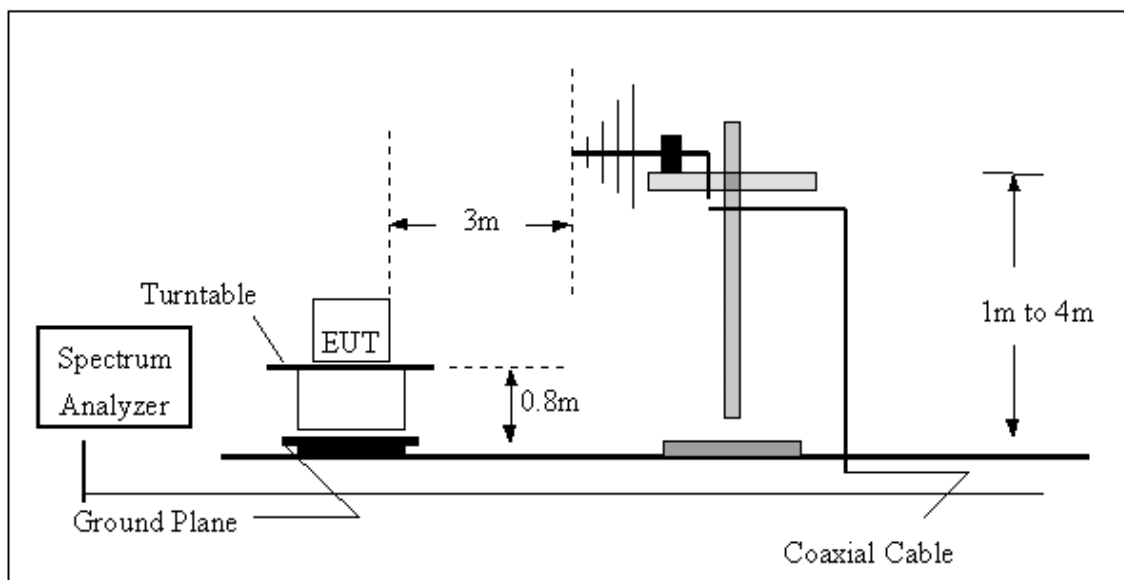
| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

### 3.2.2 TEST PROCEDURE

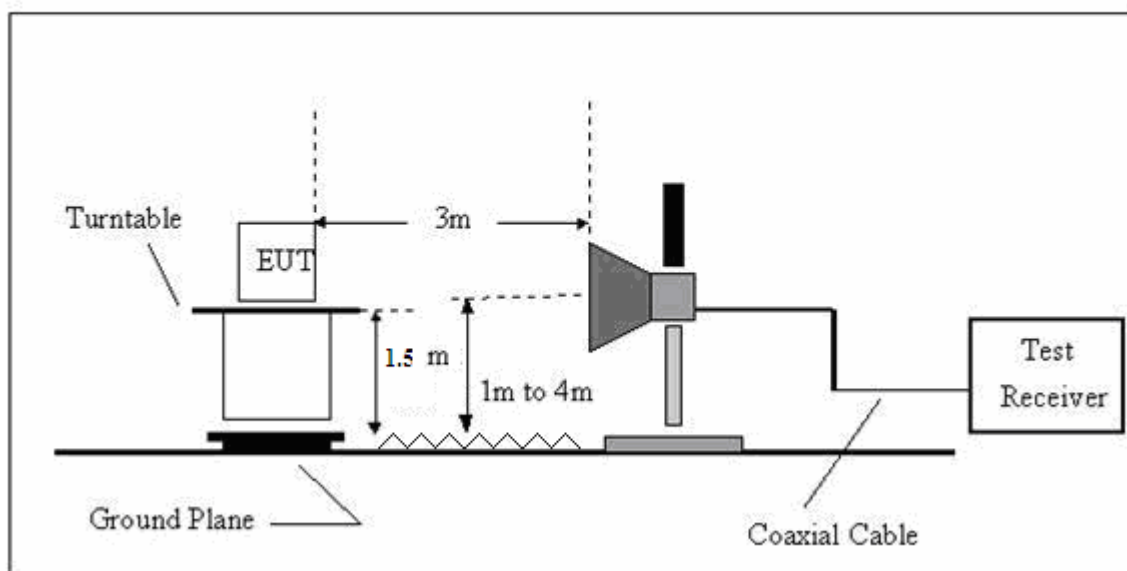
- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.2.3 TEST SETUP

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



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz

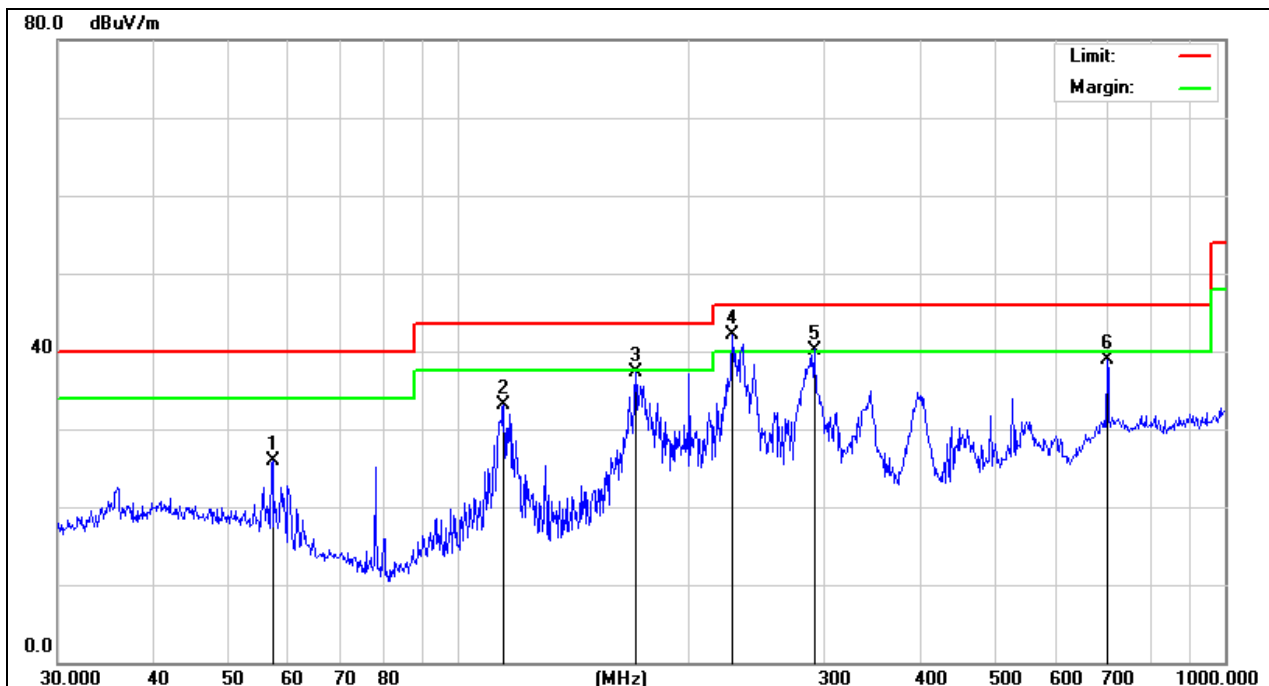


### 3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2..4 Unless otherwise a special operating condition is specified in the follows during the testing.

## 3.2.5 TEST RESULTS (BETWEEN30 – 1000 MHZ)

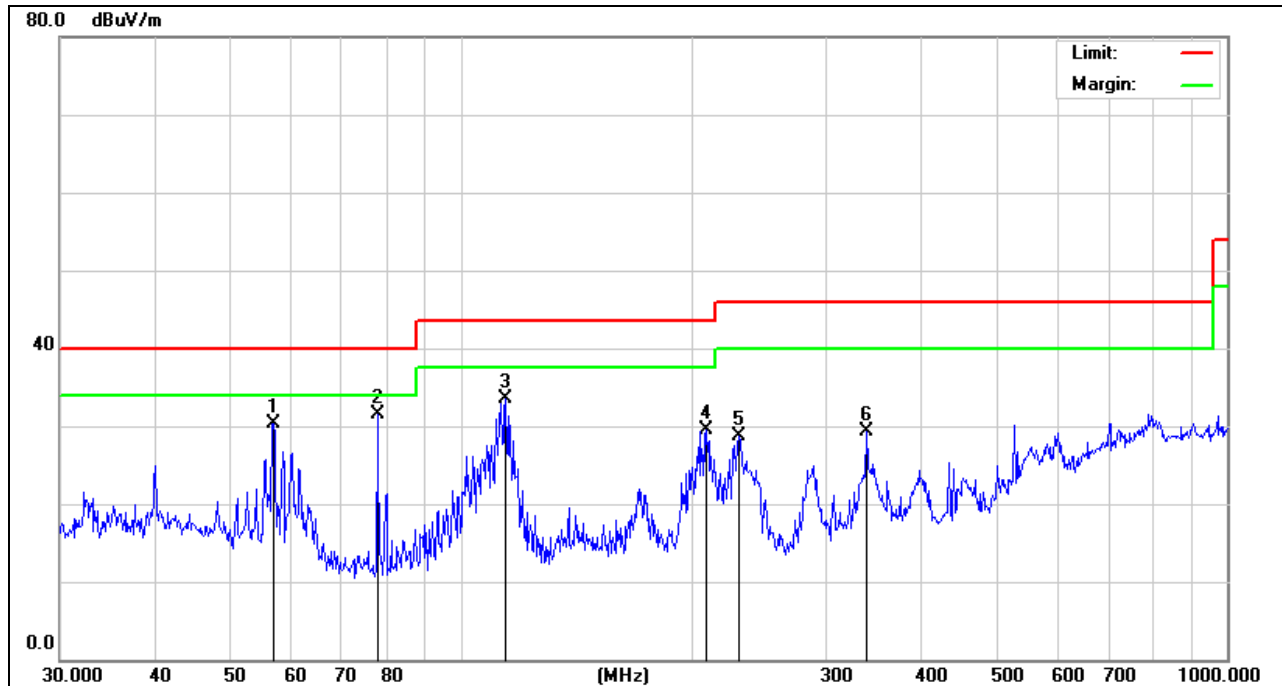
|               |                                        |                     |            |
|---------------|----------------------------------------|---------------------|------------|
| EUT :         | SwitchBot Hub Mini                     | Model Name. :       | W0202200   |
| Temperature : | 24 °C                                  | Relative Humidity : | 54%        |
| Pressure :    | 1010 hPa                               | Test Date :         | 2020-04-01 |
| Test Mode :   | TX 802.11b :Rate 1Mbps<br>(worst case) | Polarization :      | Horizontal |
| Test Power :  | DC 5V from Adapter                     |                     |            |



Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|---------|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1       | 57.1914      | 30.85                    | -4.90                   | 25.95                      | 40.00           | -14.05     | peak     |
| 2       | 114.5146     | 40.34                    | -7.32                   | 33.02                      | 43.50           | -10.48     | peak     |
| 3       | 170.1948     | 44.78                    | -7.47                   | 37.31                      | 43.50           | -6.19      | peak     |
| 4 *     | 227.6906     | 48.58                    | -6.44                   | 42.14                      | 46.00           | -3.86      | peak     |
| 5 !     | 291.0360     | 48.64                    | -8.44                   | 40.20                      | 46.00           | -5.80      | peak     |
| 6       | 701.7610     | 31.75                    | 7.16                    | 38.91                      | 46.00           | -7.09      | peak     |

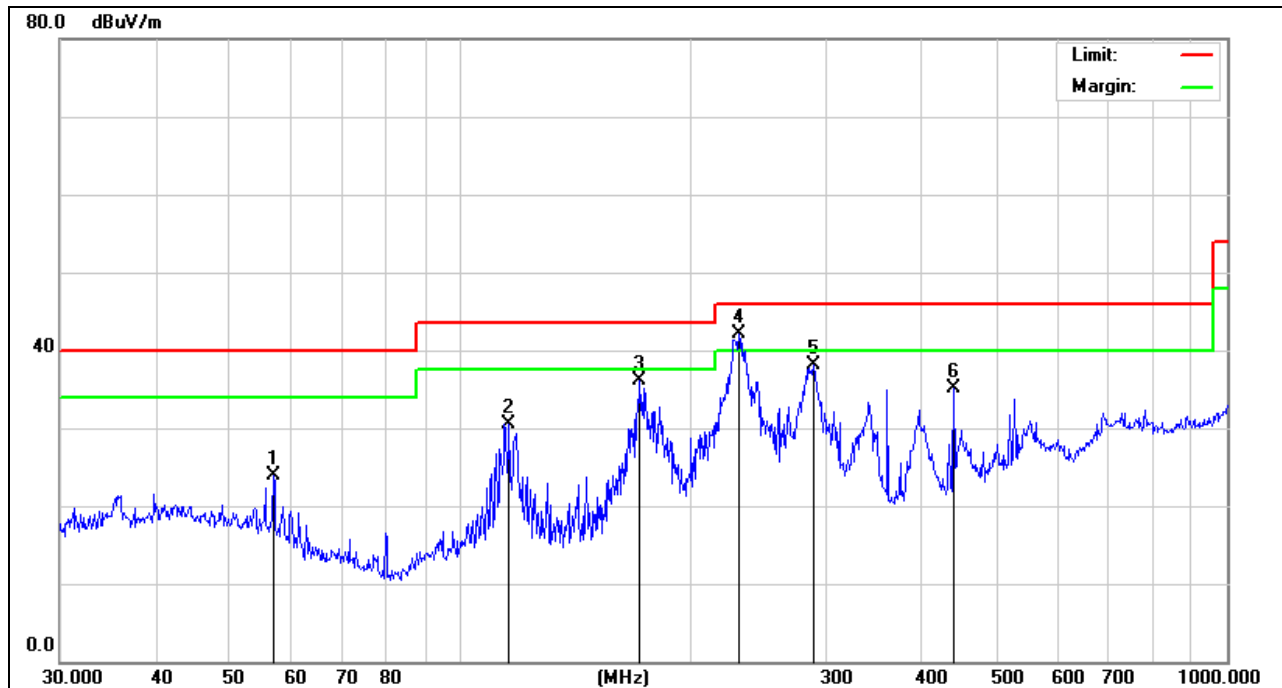
|               |                                        |                     |            |
|---------------|----------------------------------------|---------------------|------------|
| EUT :         | SwitchBot Hub Mini                     | Model Name. :       | W0202200   |
| Temperature : | 24 °C                                  | Relative Humidity : | 54%        |
| Pressure :    | 1010 hPa                               | Test Date :         | 2020-04-01 |
| Test Mode :   | TX 802.11b :Rate 1Mbps<br>(worst case) | Polarization :      | Vertical   |
| Test Power :  | DC 5V from Adapter                     |                     |            |



Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 56.9912      | 37.25                    | -6.94                   | 30.31                      | 40.00           | -9.69      | peak     |
| 2   | *   | 77.8654      | 42.23                    | -10.82                  | 31.41                      | 40.00           | -8.59      | peak     |
| 3   |     | 114.5146     | 41.86                    | -8.28                   | 33.58                      | 43.50           | -9.92      | peak     |
| 4   |     | 209.3129     | 33.40                    | -3.96                   | 29.44                      | 43.50           | -14.06     | peak     |
| 5   |     | 230.9068     | 36.06                    | -7.37                   | 28.69                      | 46.00           | -17.31     | peak     |
| 6   |     | 338.4001     | 34.87                    | -5.51                   | 29.36                      | 46.00           | -16.64     | peak     |

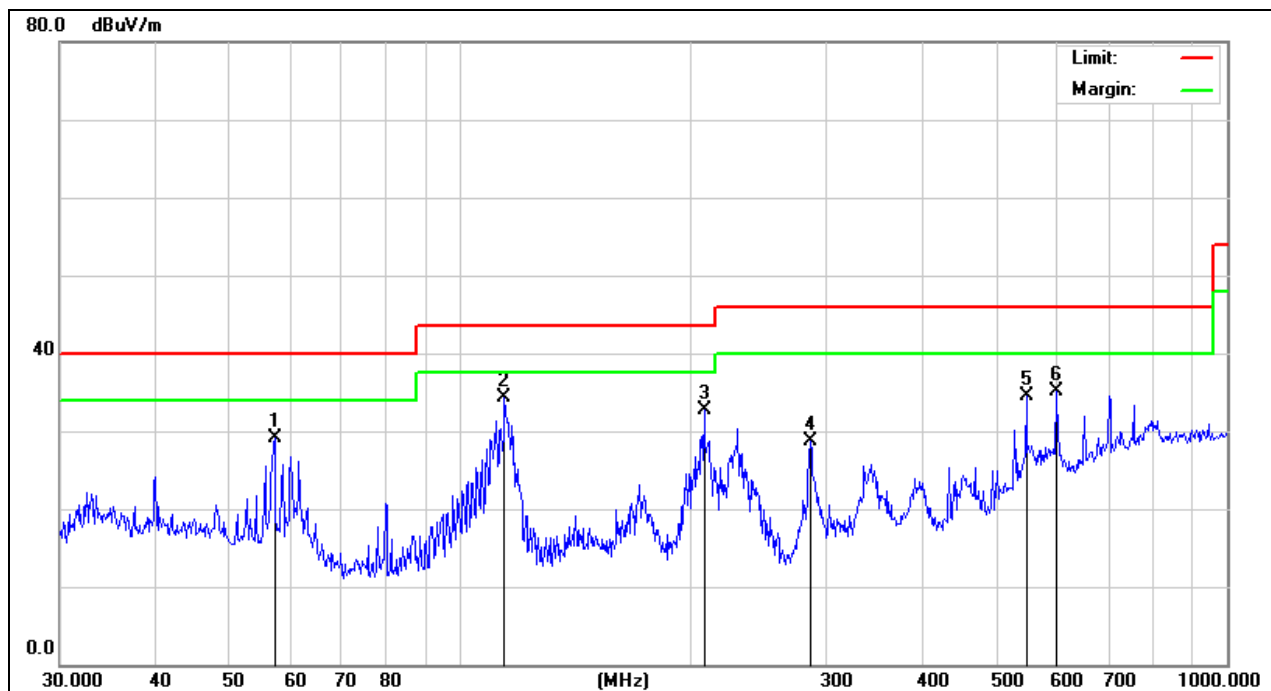
|               |                    |                     |            |
|---------------|--------------------|---------------------|------------|
| EUT :         | SwitchBot Hub Mini | Model Name. :       | W0202200   |
| Temperature : | 24 °C              | Relative Humidity : | 54%        |
| Pressure :    | 1010 hPa           | Test Date :         | 2020-04-01 |
| Test Mode :   | RX                 | Polarization :      | Horizontal |
| Test Power :  | DC 5V from Adapter |                     |            |



Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 56.9912      | 28.75                    | -4.83                   | 23.92                      | 40.00           | -16.08     | peak     |
| 2   |     | 115.7256     | 38.01                    | -7.42                   | 30.59                      | 43.50           | -12.91     | peak     |
| 3   |     | 171.3926     | 43.56                    | -7.44                   | 36.12                      | 43.50           | -7.38      | peak     |
| 4   | *   | 230.9068     | 48.65                    | -6.55                   | 42.10                      | 46.00           | -3.90      | peak     |
| 5   |     | 289.0021     | 46.60                    | -8.43                   | 38.17                      | 46.00           | -7.83      | peak     |
| 6   |     | 440.1963     | 35.87                    | -0.68                   | 35.19                      | 46.00           | -10.81     | peak     |

|               |                    |                     |            |
|---------------|--------------------|---------------------|------------|
| EUT :         | SwitchBot Hub Mini | Model Name. :       | W0202200   |
| Temperature : | 24 °C              | Relative Humidity : | 54%        |
| Pressure :    | 1010 hPa           | Test Date :         | 2020-04-01 |
| Test Mode :   | RX                 | Polarization :      | Vertical   |
| Test Power :  | DC 5V from Adapter |                     |            |



Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

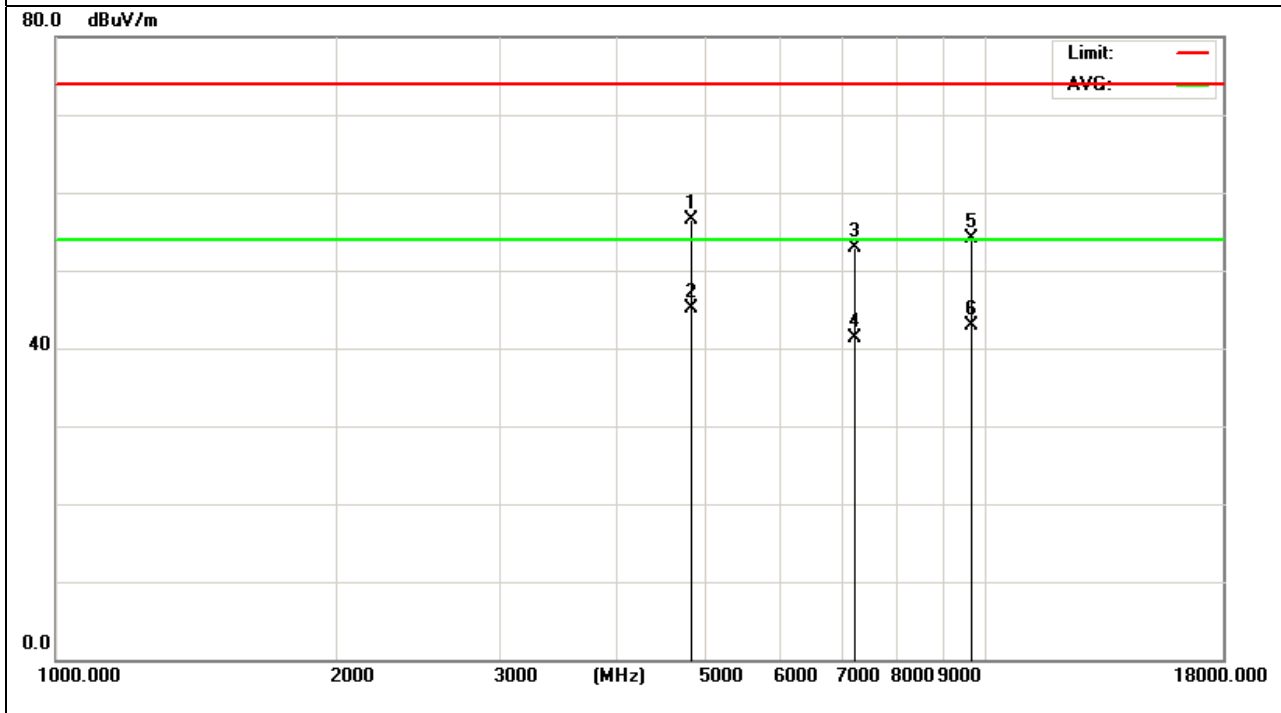
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector |
| 1   |     | 57.1914  | 36.14         | -6.97          | 29.17        | 40.00  | -10.83 | peak     |
| 2   | *   | 114.1138 | 42.61         | -8.24          | 34.37        | 43.50  | -9.13  | peak     |
| 3   |     | 207.8501 | 37.23         | -4.45          | 32.78        | 43.50  | -10.72 | peak     |
| 4   |     | 285.9778 | 37.37         | -8.67          | 28.70        | 46.00  | -17.30 | peak     |
| 5   |     | 547.0977 | 32.90         | 1.61           | 34.51        | 46.00  | -11.49 | peak     |
| 6   |     | 599.3212 | 31.85         | 3.30           | 35.15        | 46.00  | -10.85 | peak     |

### 3.2.6 TEST RESULTS (ABOVE 1000 MHZ)

|                      |                               |                     |               |
|----------------------|-------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200      |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH01 (802.11b :Rate 1Mbps) | Polarization :      | Horizontal    |
| Measurement Distance | 3 m                           | Frenqucy Range      | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter            |                     |               |

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 4824.0000          | 51.47                   | 5.08           | 56.55                      | 74.00              | -17.45         | peak          |
| 4824.0000          | 39.94                   | 5.08           | 45.02                      | 54.00              | -8.98          | AVG           |
| 7236.0000          | 45.69                   | 7.16           | 52.85                      | 74.00              | -21.15         | peak          |
| 7236.0000          | 34.21                   | 7.16           | 41.37                      | 54.00              | -12.63         | AVG           |
| 9648.0000          | 43.36                   | 10.82          | 54.18                      | 74.00              | -19.82         | peak          |
| 9648.0000          | 32.07                   | 10.82          | 42.89                      | 54.00              | -11.11         | AVG           |

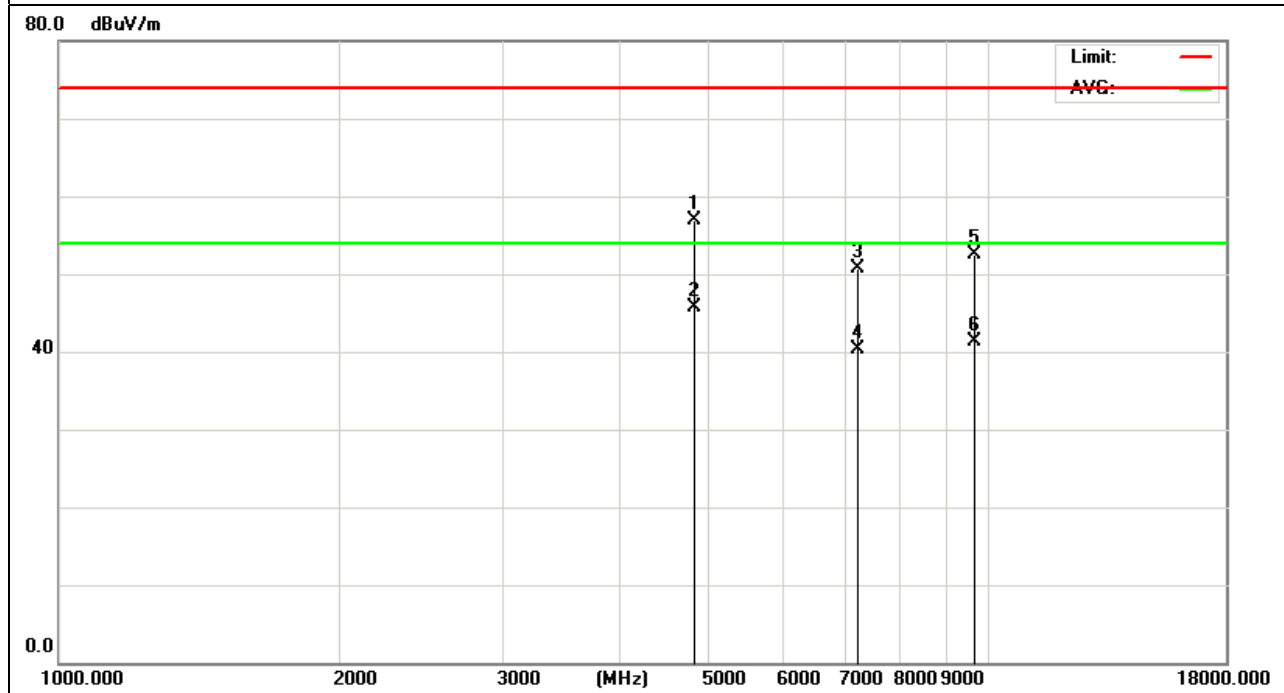
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |               |
|----------------------|-------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200      |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH01 (802.11b :Rate 1Mbps) | Polarization :      | Vertical      |
| Measurement Distance | 3 m                           | Frenqucy Range      | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter            |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4824.000  | 51.74         | 5.08   | 56.82          | 74.00    | -17.18 | peak          |
| 4824.000  | 40.69         | 5.08   | 45.77          | 54.00    | -8.23  | AVG           |
| 7236.000  | 43.57         | 7.16   | 50.73          | 74.00    | -23.27 | peak          |
| 7236.000  | 33.21         | 7.16   | 40.37          | 54.00    | -13.63 | AVG           |
| 9648.000  | 41.73         | 10.82  | 52.55          | 74.00    | -21.45 | peak          |
| 9648.000  | 30.52         | 10.82  | 41.34          | 54.00    | -12.66 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |                |
|----------------------|-------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200       |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH01 (802.11b :Rate 1Mbps) | Polarization :      | Horizontal     |
| Measurement Distance | 3 m                           | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter            |                     |                |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 19762.000 | 39.16         | 16.56  | 55.72          | 74.00    | -18.28 | peak          |
| 19762.000 | 29.49         | 16.56  | 46.05          | 54.00    | -7.95  | AVG           |

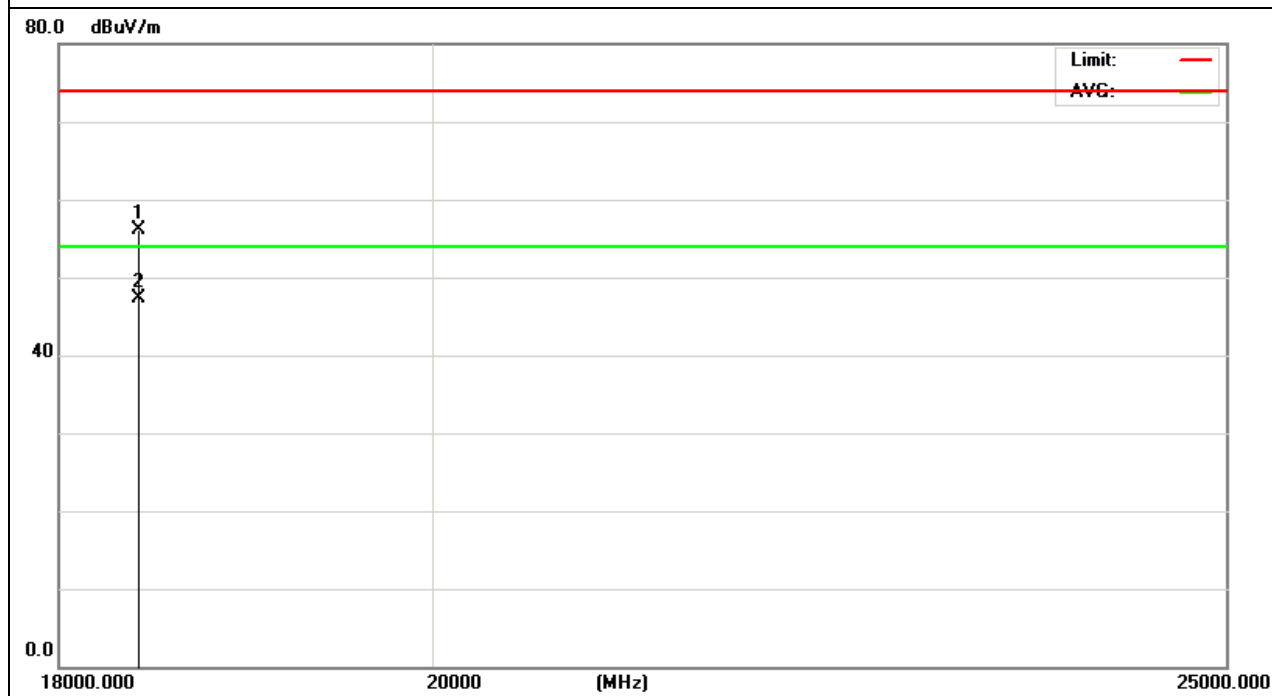
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |                |
|----------------------|-------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200       |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH01 (802.11b :Rate 1Mbps) | Polarization :      | Vertical       |
| Measurement Distance | 3 m                           | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter            |                     |                |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 18413.000 | 40.21         | 15.80  | 56.01          | 74.00    | -17.99 | peak          |
| 18413.000 | 31.49         | 15.80  | 47.29          | 54.00    | -6.71  | AVG           |

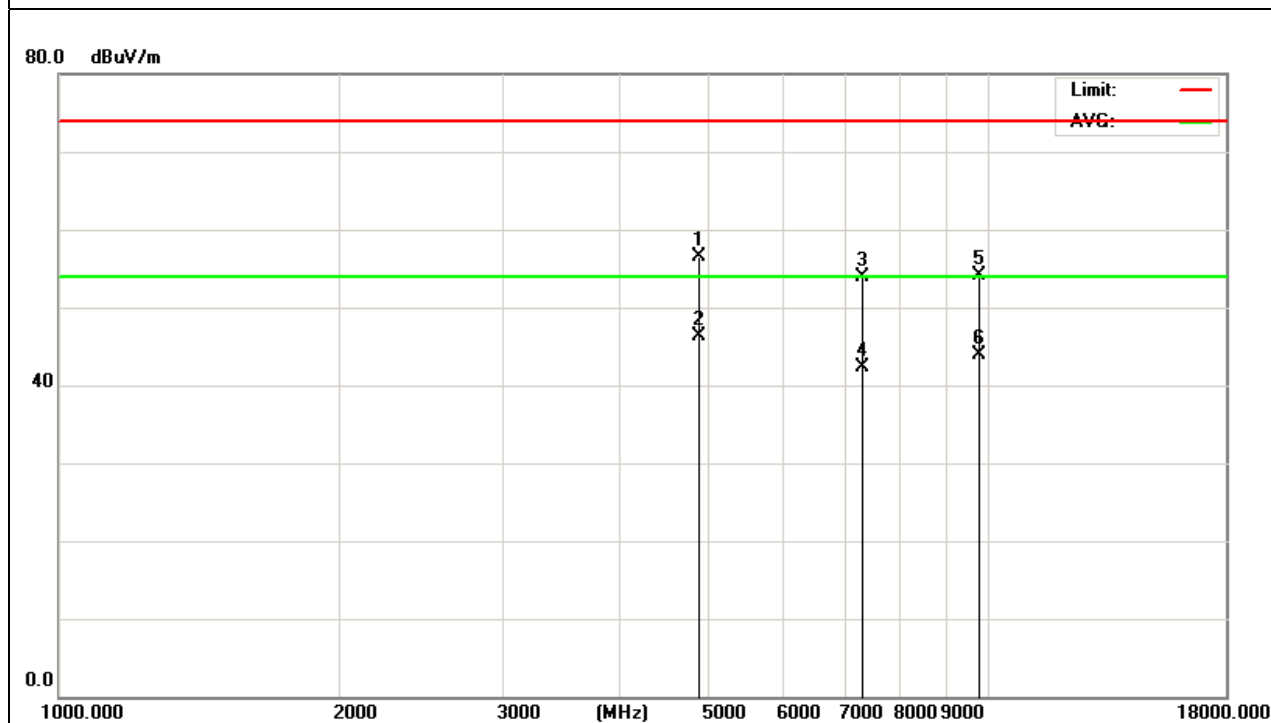
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |               |
|----------------------|-------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200      |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH06 (802.11b :Rate 1Mbps) | Polarization :      | Horizontal    |
| Measurement Distance | 3 m                           | Frenqucy Range      | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter            |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874.0000 | 51.28         | 5.13   | 56.41          | 74.00    | -17.59 | peak          |
| 4874.0000 | 41.19         | 5.13   | 46.32          | 54.00    | -7.68  | AVG           |
| 7311.0000 | 46.36         | 7.49   | 53.85          | 74.00    | -20.15 | peak          |
| 7311.0000 | 34.79         | 7.49   | 42.28          | 54.00    | -11.72 | AVG           |
| 9748.0000 | 42.89         | 11.30  | 54.19          | 74.00    | -19.81 | peak          |
| 9748.0000 | 32.63         | 11.30  | 43.93          | 54.00    | -10.07 | AVG           |

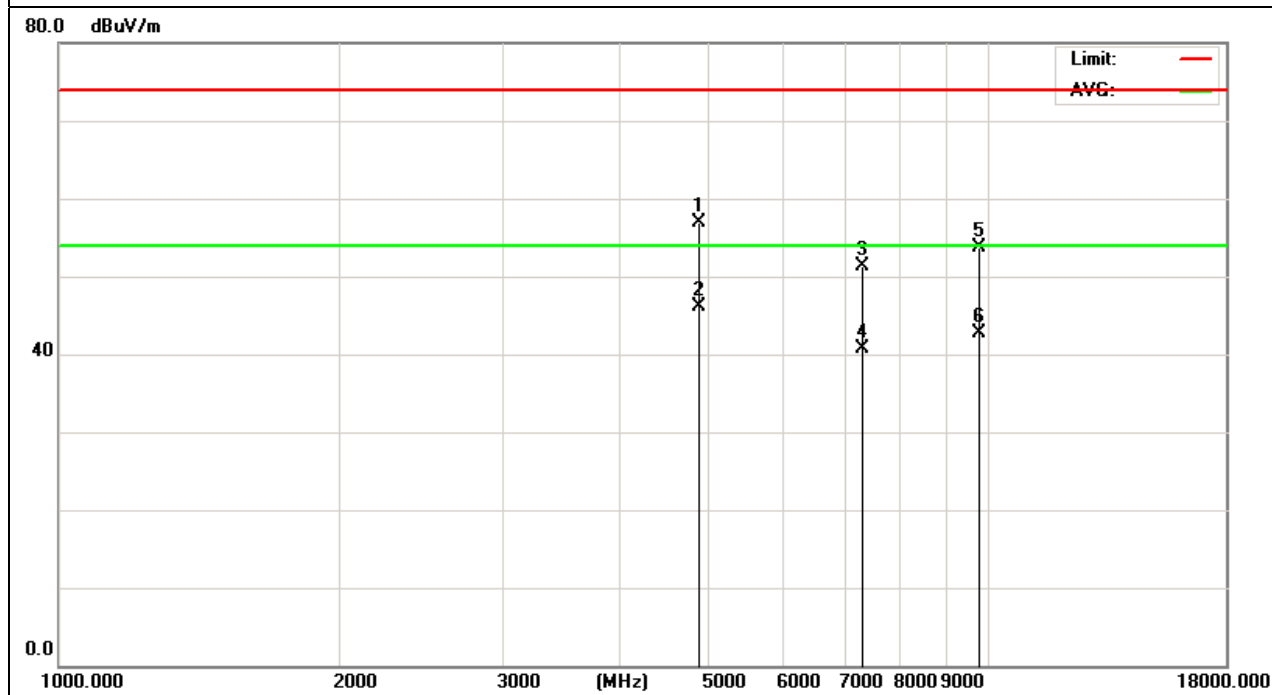
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |               |
|----------------------|-------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200      |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH06 (802.11b :Rate 1Mbps) | Polarization :      | Vertical      |
| Measurement Distance | 3 m                           | Frenqucy Range      | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter            |                     |               |

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 4874.0000          | 51.73                   | 5.13           | 56.86                      | 74.00              | -17.14         | peak          |
| 4874.0000          | 41.04                   | 5.13           | 46.17                      | 54.00              | -7.83          | AVG           |
| 7311.0000          | 43.74                   | 7.49           | 51.23                      | 74.00              | -22.77         | peak          |
| 7311.0000          | 33.28                   | 7.49           | 40.77                      | 54.00              | -13.23         | AVG           |
| 9748.0000          | 42.45                   | 11.30          | 53.75                      | 74.00              | -20.25         | peak          |
| 9748.0000          | 31.49                   | 11.30          | 42.79                      | 54.00              | -11.21         | AVG           |

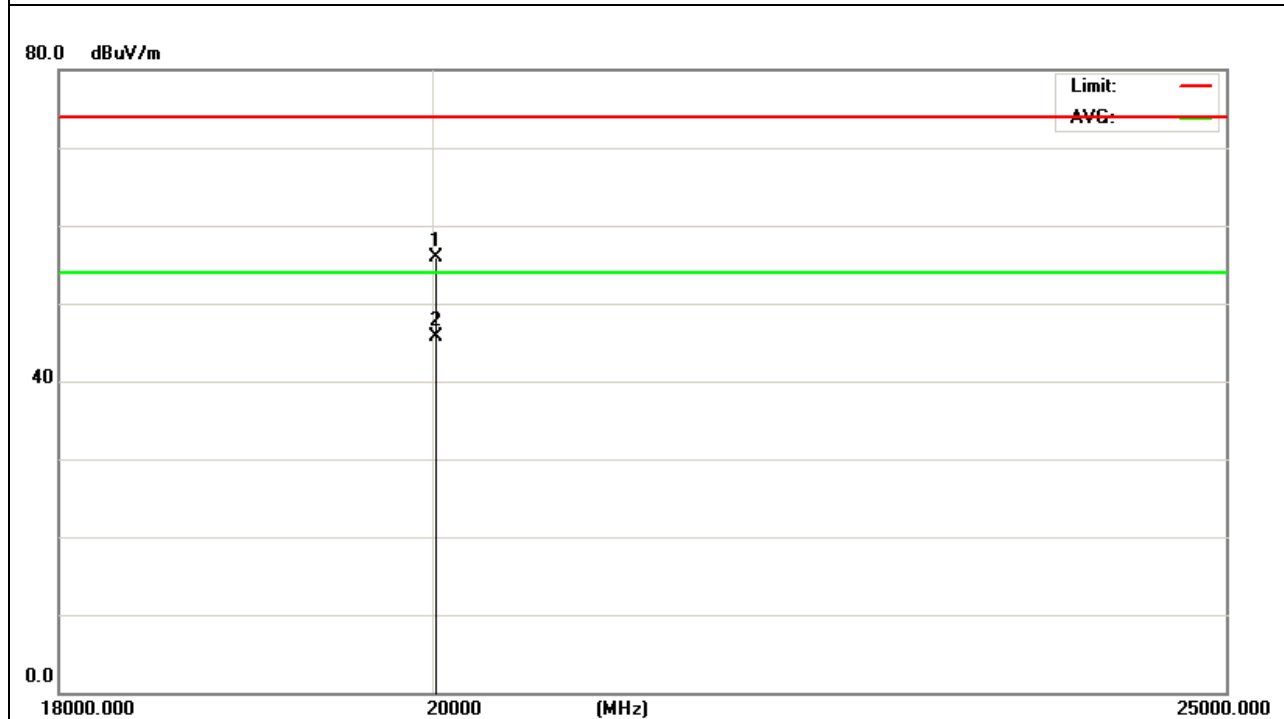
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |                |
|----------------------|-------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200       |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH06 (802.11b :Rate 1Mbps) | Polarization :      | Horizontal     |
| Measurement Distance | 3 m                           | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter            |                     |                |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 20016.000 | 39.24         | 16.61  | 55.85          | 74.00    | -18.15 | peak          |
| 20016.000 | 29.16         | 16.61  | 45.77          | 54.00    | -8.23  | AVG           |

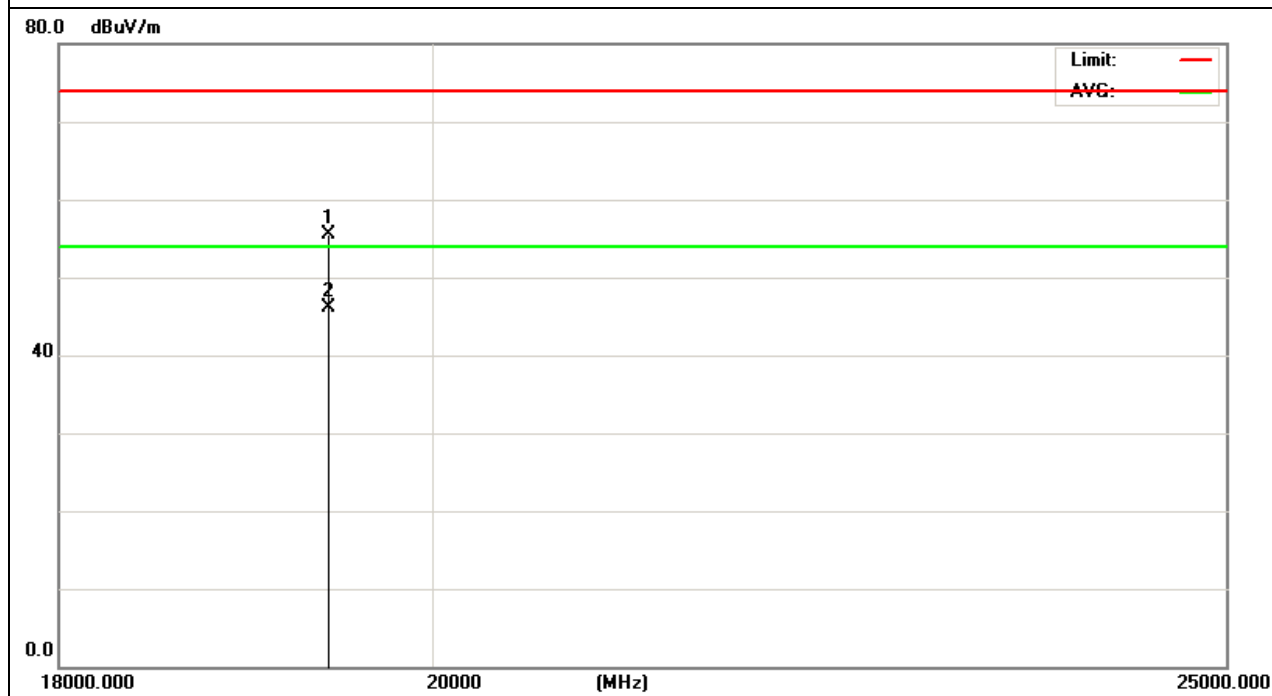
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |                |
|----------------------|-------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200       |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH06 (802.11b :Rate 1Mbps) | Polarization :      | Vertical       |
| Measurement Distance | 3 m                           | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter            |                     |                |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 19415.000 | 39.02         | 16.49  | 55.51          | 74.00    | -18.49 | peak          |
| 19415.000 | 29.61         | 16.49  | 46.10          | 54.00    | -7.90  | AVG           |

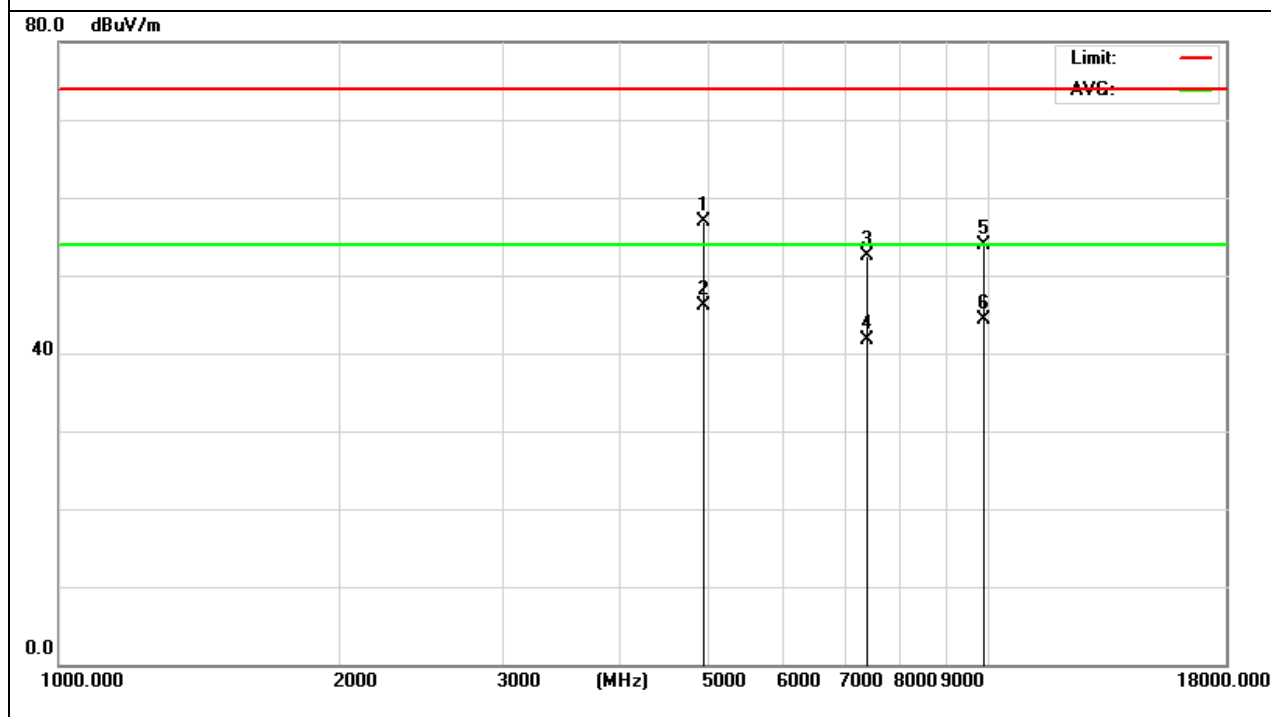
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |               |
|----------------------|-------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200      |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH11 (802.11b :Rate 1Mbps) | Polarization :      | Horizontal    |
| Measurement Distance | 3 m                           | Frenqucy Range      | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter            |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4924.0000 | 51.69         | 5.18   | 56.87          | 74.00    | -17.13 | peak          |
| 4924.0000 | 40.87         | 5.18   | 46.05          | 54.00    | -7.95  | AVG           |
| 7386.0000 | 44.63         | 7.82   | 52.45          | 74.00    | -21.55 | peak          |
| 7386.0000 | 33.96         | 7.82   | 41.78          | 54.00    | -12.22 | AVG           |
| 9848.0000 | 42.02         | 11.79  | 53.81          | 74.00    | -20.19 | peak          |
| 9848.0000 | 32.46         | 11.79  | 44.25          | 54.00    | -9.75  | AVG           |

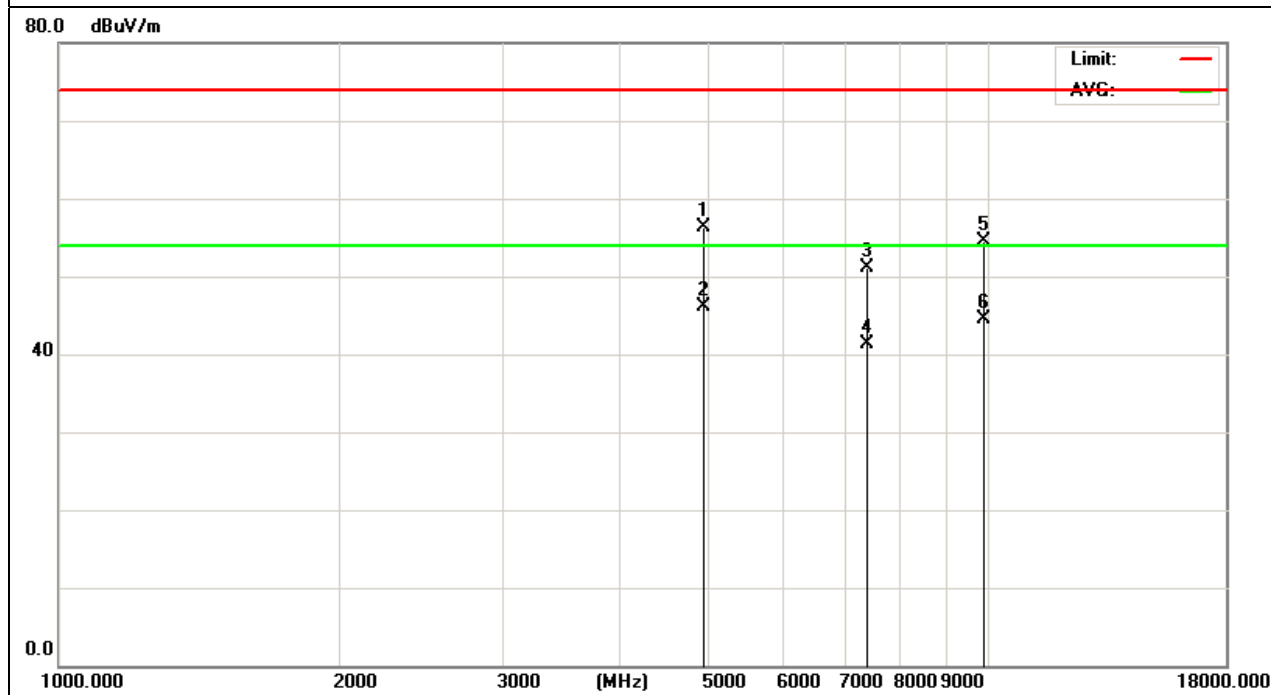
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |               |
|----------------------|-------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200      |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH11 (802.11b :Rate 1Mbps) | Polarization :      | Vertical      |
| Measurement Distance | 3 m                           | Frenqucy Range      | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter            |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4924.0000 | 51.16         | 5.18   | 56.34          | 74.00    | -17.66 | peak          |
| 4924.0000 | 40.98         | 5.18   | 46.16          | 54.00    | -7.84  | AVG           |
| 7386.0000 | 43.36         | 7.82   | 51.18          | 74.00    | -22.82 | peak          |
| 7386.0000 | 33.52         | 7.82   | 41.34          | 54.00    | -12.66 | AVG           |
| 9848.0000 | 42.63         | 11.79  | 54.42          | 74.00    | -19.58 | peak          |
| 9848.0000 | 32.74         | 11.79  | 44.53          | 54.00    | -9.47  | AVG           |

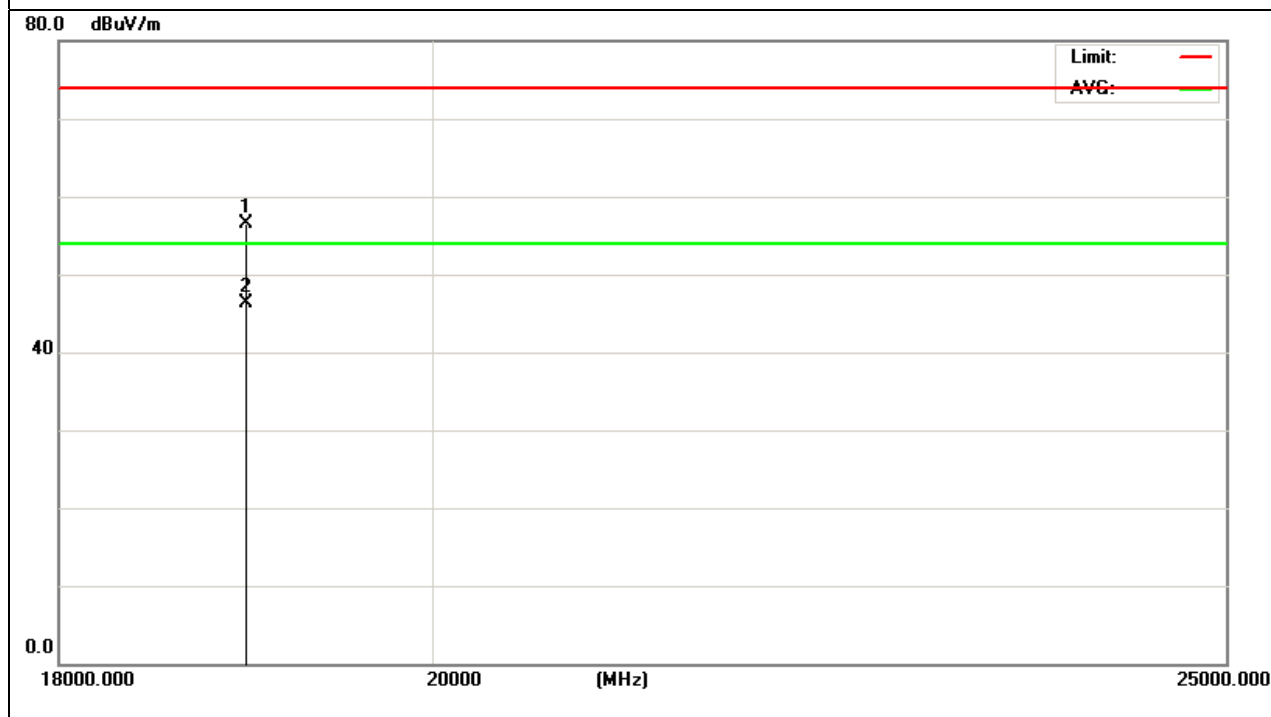
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |                |
|----------------------|-------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200       |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH11 (802.11b :Rate 1Mbps) | Polarization :      | Horizontal     |
| Measurement Distance | 3 m                           | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter            |                     |                |

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 18972.000          | 40.06                   | 16.38          | 56.44                      | 74.00              | -17.56         | peak          |
| 18972.000          | 29.98                   | 16.38          | 46.36                      | 54.00              | -7.64          | AVG           |

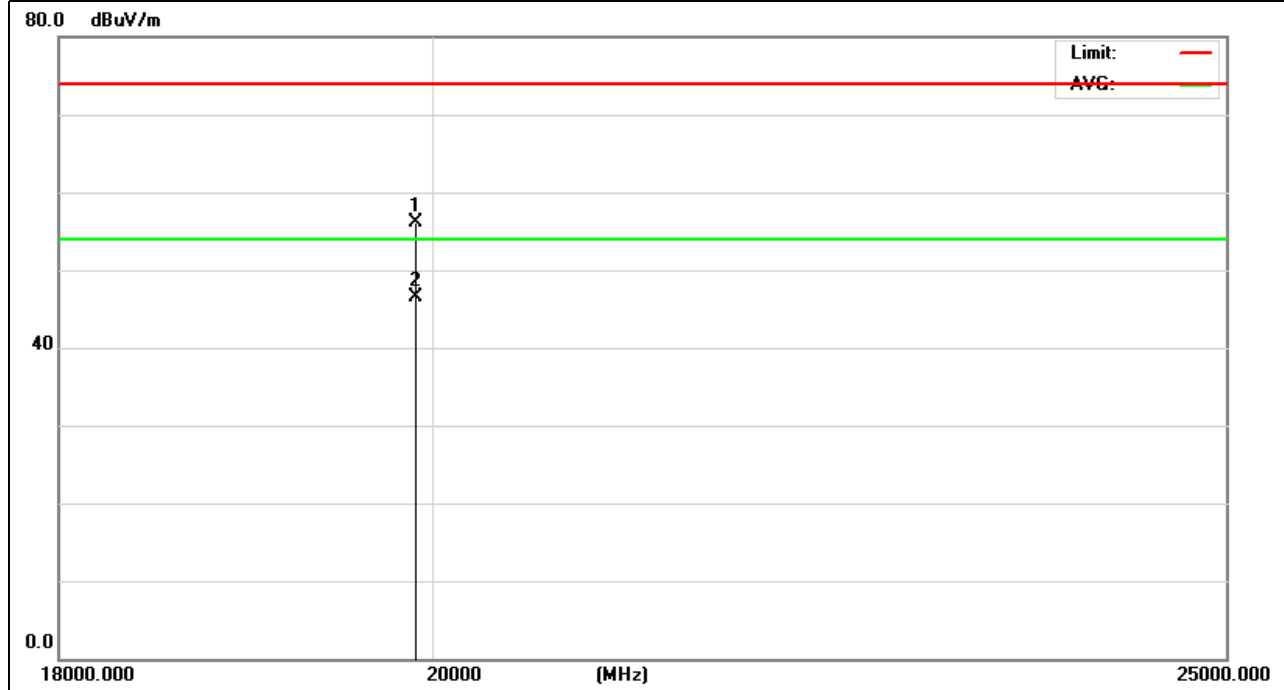
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |                |
|----------------------|-------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200       |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH11 (802.11b :Rate 1Mbps) | Polarization :      | Vertical       |
| Measurement Distance | 3 m                           | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter            |                     |                |

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 19898.000          | 39.49                   | 16.58          | 56.07                      | 74.00              | -17.93         |               |
| 19898.000          | 30.02                   | 16.58          | 46.60                      | 54.00              | -7.40          | AVG           |

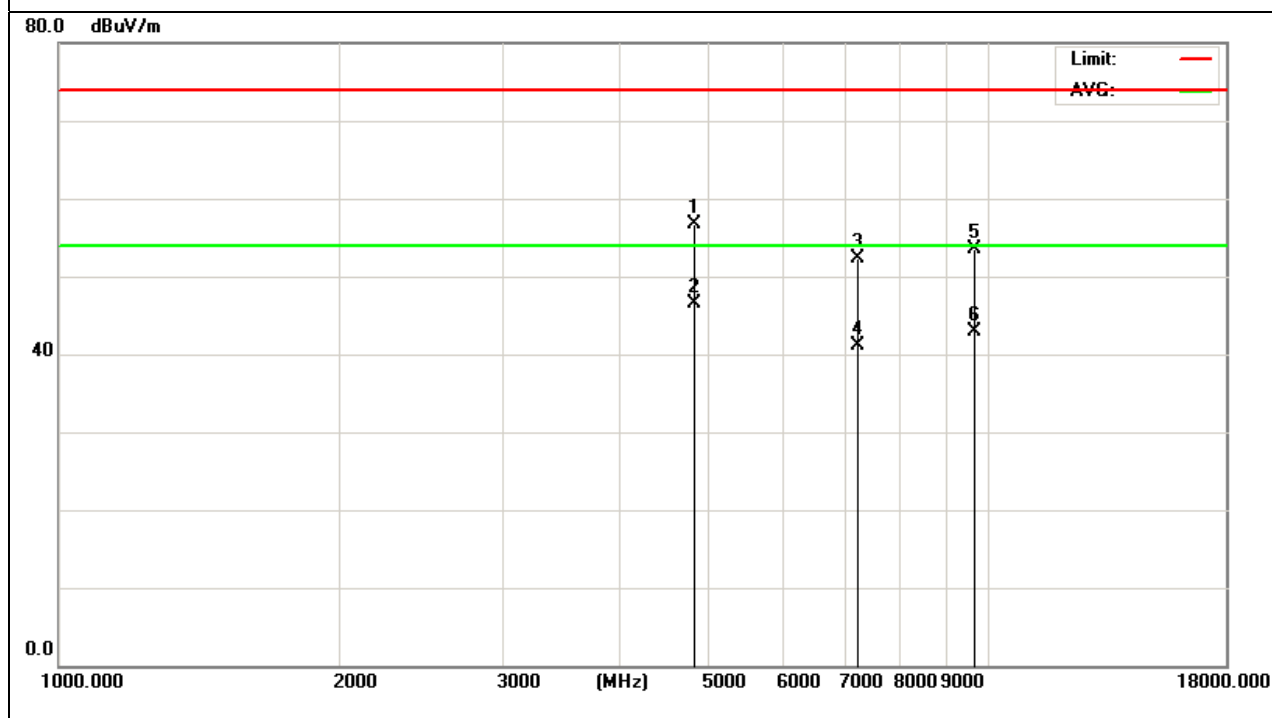
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |               |
|----------------------|-------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200      |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH01 (802.11g; Rate 6Mbps) | Polarization :      | Horizontal    |
| Measurement Distance | 3 m                           | Frenqucy Range      | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter            |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4824.0000 | 51.62         | 5.08   | 56.70          | 74.00    | -17.30 | peak          |
| 4824.0000 | 41.33         | 5.08   | 46.41          | 54.00    | -7.59  | AVG           |
| 7236.0000 | 45.21         | 7.16   | 52.37          | 74.00    | -21.63 | peak          |
| 7236.0000 | 33.94         | 7.16   | 41.10          | 54.00    | -12.90 | AVG           |
| 9648.0000 | 42.63         | 10.82  | 53.45          | 74.00    | -20.55 | peak          |
| 9648.0000 | 32.06         | 10.82  | 42.88          | 54.00    | -11.12 | AVG           |

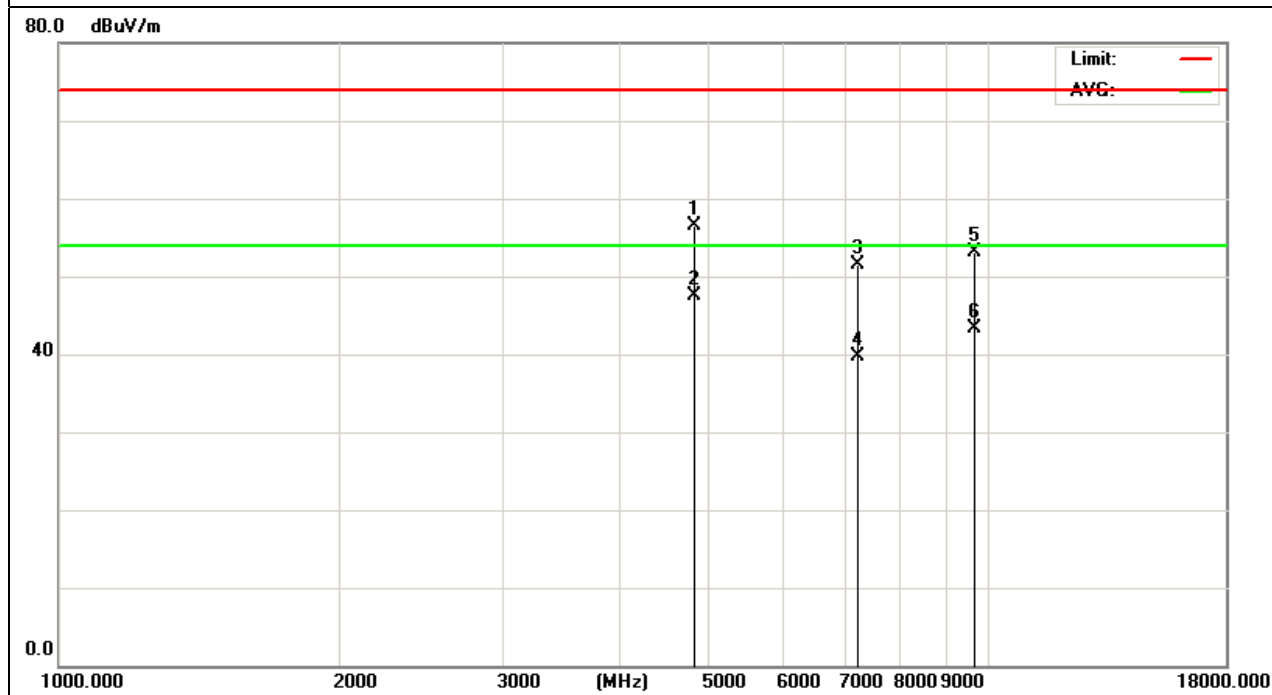
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |               |
|----------------------|-------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200      |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH01 (802.11g; Rate 6Mbps) | Polarization :      | Vertical      |
| Measurement Distance | 3 m                           | Frenqucy Range      | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter            |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4824.0000 | 51.49         | 5.08   | 56.57          | 74.00    | -17.43 | peak          |
| 4824.0000 | 42.33         | 5.08   | 47.41          | 54.00    | -6.59  | AVG           |
| 7236.0000 | 44.25         | 7.16   | 51.41          | 74.00    | -22.59 | peak          |
| 7236.0000 | 32.58         | 7.16   | 39.74          | 54.00    | -14.26 | AVG           |
| 9648.0000 | 42.36         | 10.82  | 53.18          | 74.00    | -20.82 | peak          |
| 9648.0000 | 32.54         | 10.82  | 43.36          | 54.00    | -10.64 | AVG           |

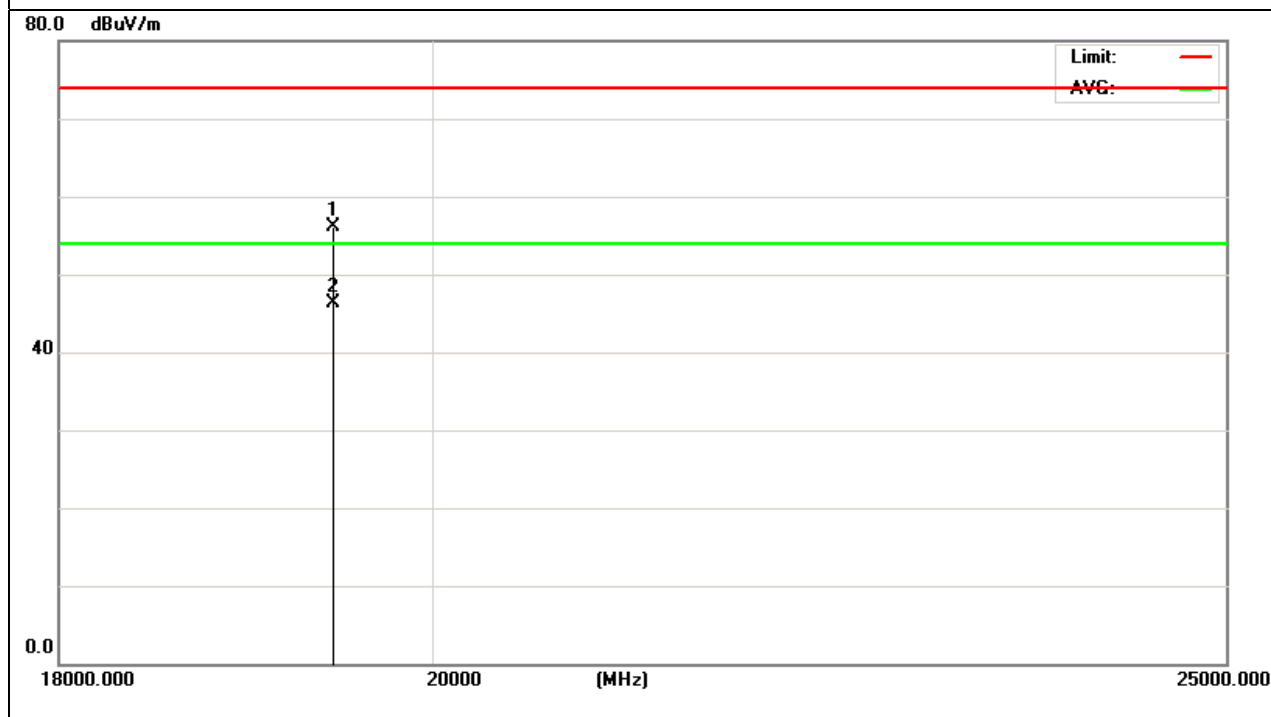
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |                |
|----------------------|-------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200       |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH01 (802.11g; Rate 6Mbps) | Polarization :      | Horizontal     |
| Measurement Distance | 3 m                           | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter            |                     |                |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 19445.000 | 39.52         | 16.49  | 56.01          | 74.00    | -17.99 | peak          |
| 19445.000 | 29.78         | 16.49  | 46.27          | 54.00    | -7.73  | AVG           |

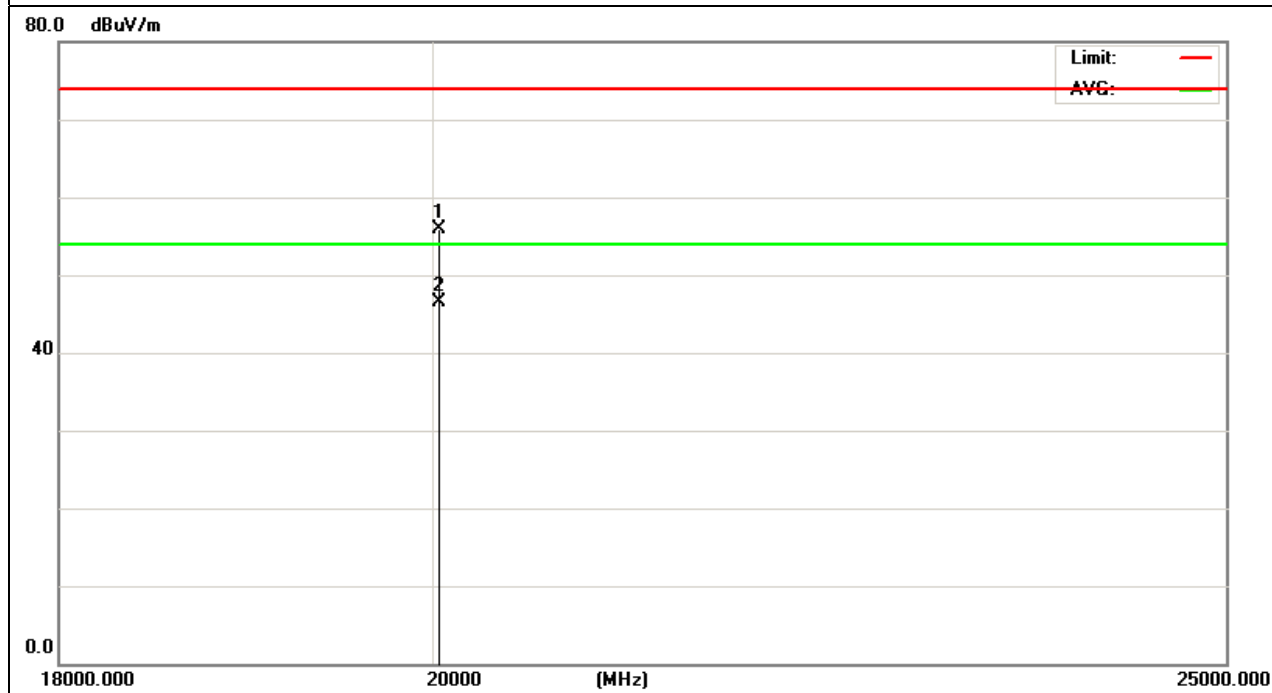
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |                |
|----------------------|-------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200       |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH01 (802.11g; Rate 6Mbps) | Polarization :      | Vertical       |
| Measurement Distance | 3 m                           | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter            |                     |                |

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 20034.000          | 39.26                   | 16.61          | 55.87                      | 74.00              | -18.13         | peak          |
| 20034.000          | 29.89                   | 16.61          | 46.50                      | 54.00              | -7.50          | AVG           |

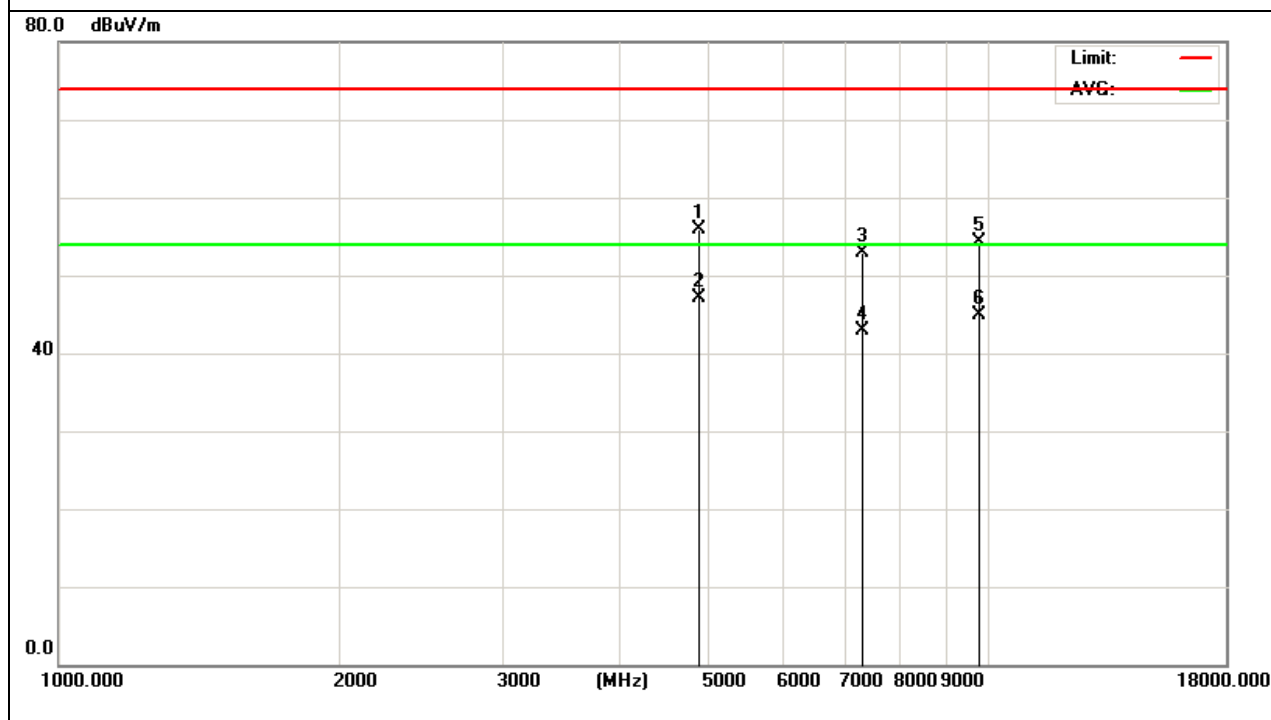
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |               |
|----------------------|-------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200      |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH06 (802.11g; Rate 6Mbps) | Polarization :      | Horizontal    |
| Measurement Distance | 3 m                           | Frenqucy Range      | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter            |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874.000  | 50.84         | 5.13   | 55.97          | 74.00    | -18.03 | peak          |
| 4874.000  | 42.02         | 5.13   | 47.15          | 54.00    | -6.85  | AVG           |
| 7311.000  | 45.33         | 7.49   | 52.82          | 74.00    | -21.18 | peak          |
| 7311.000  | 35.41         | 7.49   | 42.90          | 54.00    | -11.10 | AVG           |
| 9748.000  | 43.02         | 11.30  | 54.32          | 74.00    | -19.68 | peak          |
| 9748.000  | 33.61         | 11.30  | 44.91          | 54.00    | -9.09  | AVG           |

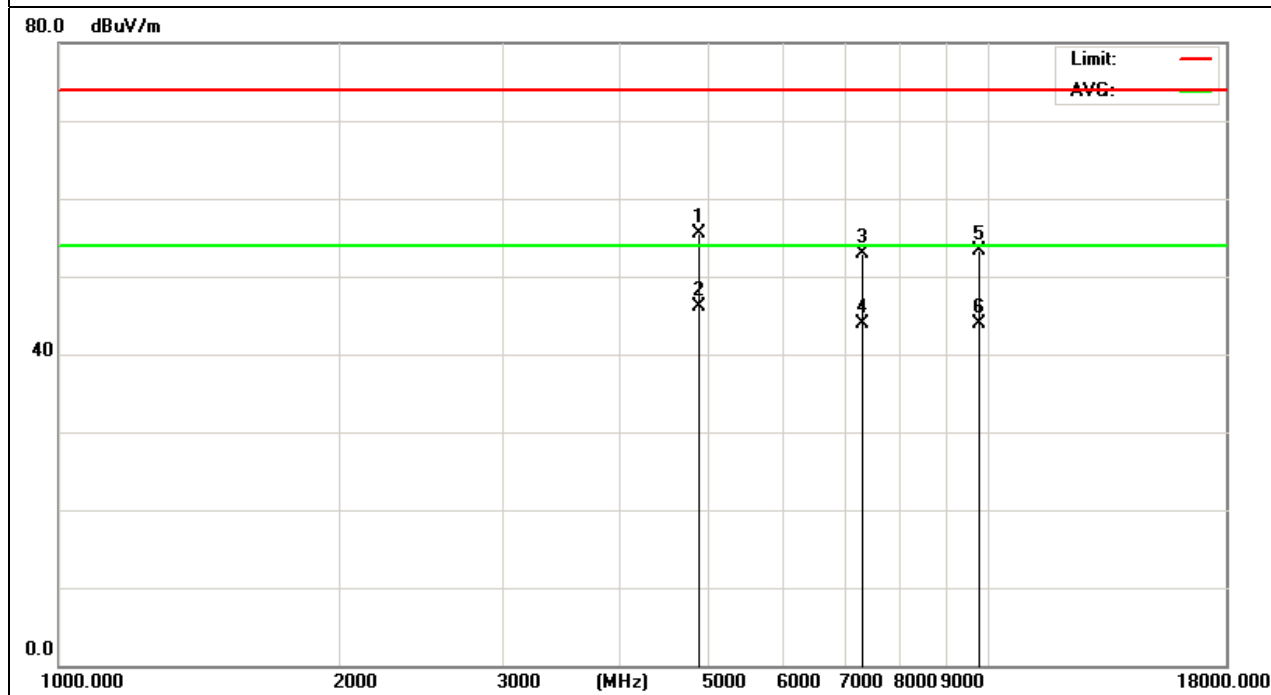
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |               |
|----------------------|-------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200      |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH06 (802.11g; Rate 6Mbps) | Polarization :      | Vertical      |
| Measurement Distance | 3 m                           | Frenqucy Range      | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter            |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874.000  | 50.47         | 5.13   | 55.60          | 74.00    | -18.40 | peak          |
| 4874.000  | 41.02         | 5.13   | 46.15          | 54.00    | -7.85  | AVG           |
| 7311.000  | 45.33         | 7.49   | 52.82          | 74.00    | -21.18 | peak          |
| 7311.000  | 36.41         | 7.49   | 43.90          | 54.00    | -10.10 | AVG           |
| 9748.000  | 42.02         | 11.30  | 53.32          | 74.00    | -20.68 | peak          |
| 9748.000  | 32.69         | 11.30  | 43.99          | 54.00    | -10.01 | AVG           |

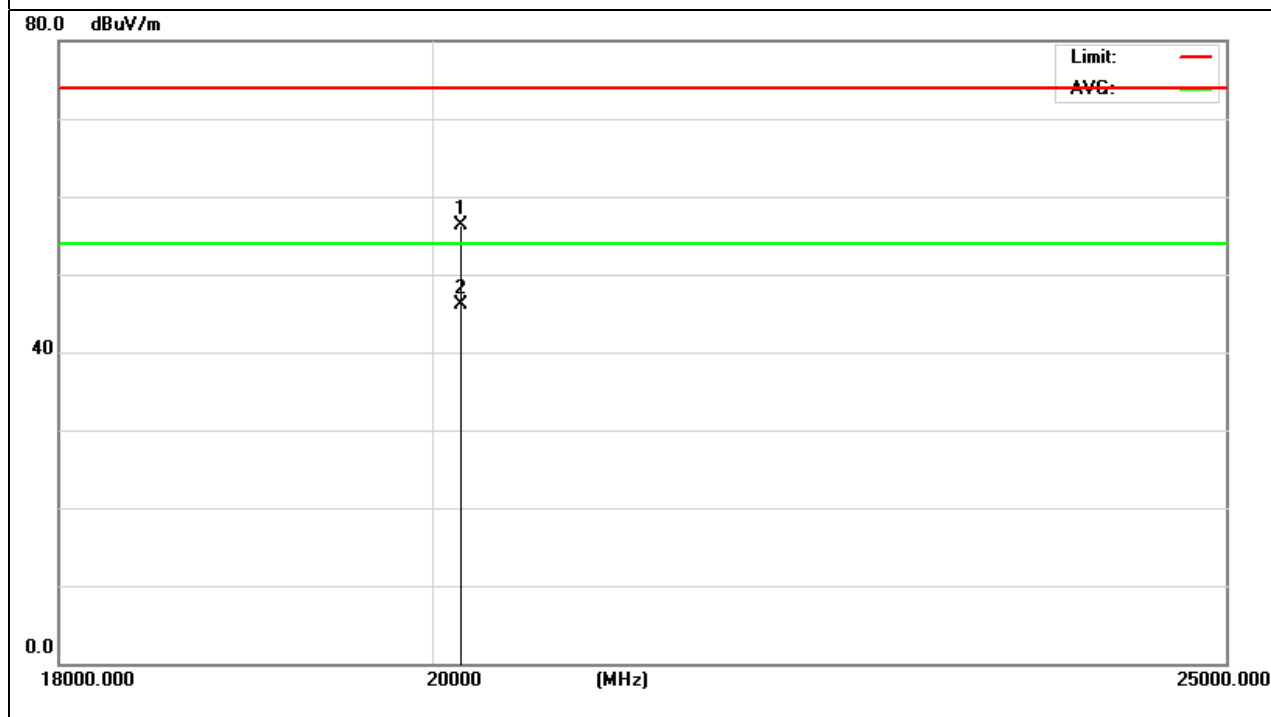
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |                |
|----------------------|-------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200       |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH06 (802.11g; Rate 6Mbps) | Polarization :      | Horizontal     |
| Measurement Distance | 3 m                           | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter            |                     |                |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 20161.000 | 39.58         | 16.63  | 56.21          | 74.00    | -17.79 | peak          |
| 20161.000 | 29.47         | 16.63  | 46.10          | 54.00    | -7.90  | AVG           |

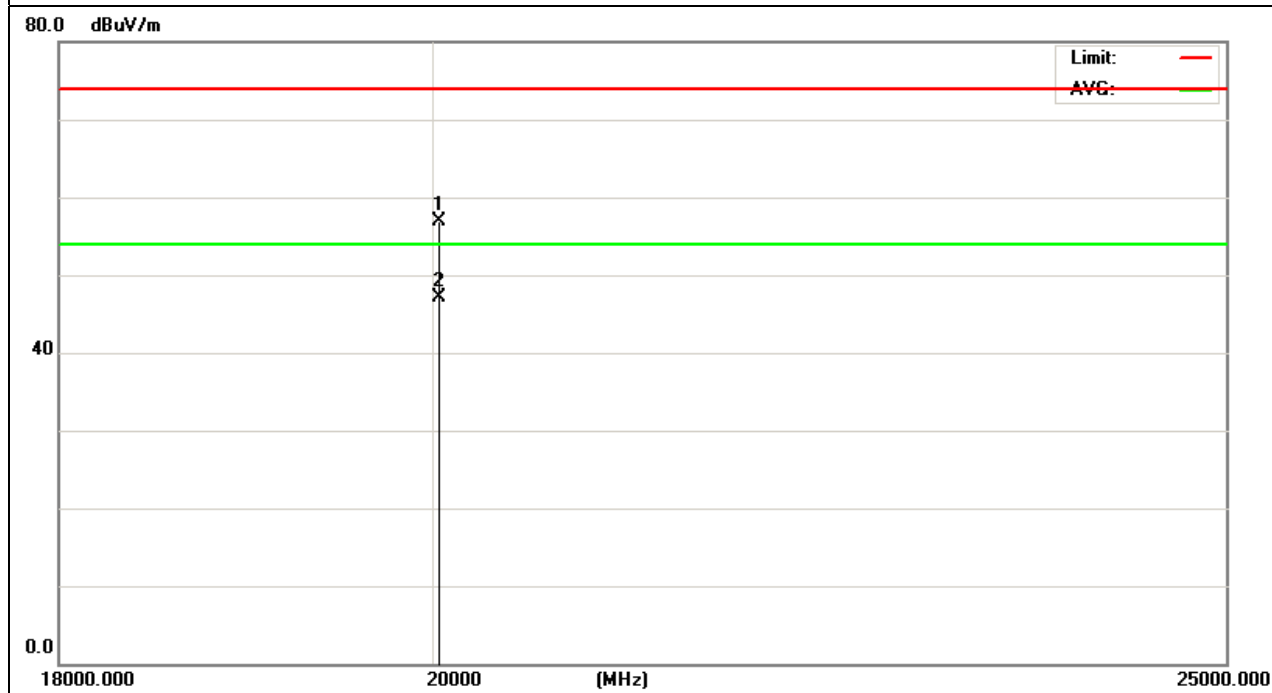
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |                |
|----------------------|-------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200       |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH06 (802.11g; Rate 6Mbps) | Polarization :      | Vertical       |
| Measurement Distance | 3 m                           | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter            |                     |                |

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 20036.000          | 40.25                   | 16.61          | 56.86                      | 74.00              | -17.14         | peak          |
| 20036.000          | 30.47                   | 16.61          | 47.08                      | 54.00              | -6.92          | AVG           |

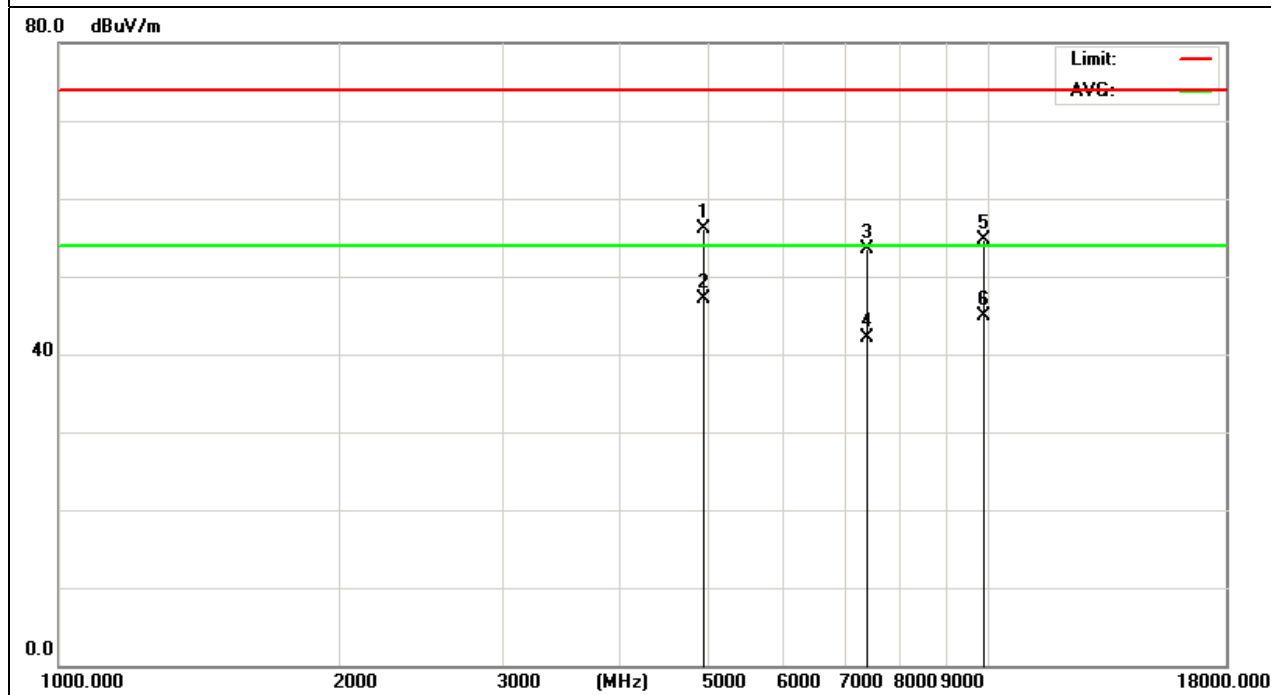
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |               |
|----------------------|-------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200      |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH11 (802.11g; Rate 6Mbps) | Polarization :      | Horizontal    |
| Measurement Distance | 3 m                           | Frenqucy Range      | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter            |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4924.0000 | 50.93         | 5.18   | 56.11          | 74.00    | -17.89 | peak          |
| 4924.0000 | 42.01         | 5.18   | 47.19          | 54.00    | -6.81  | AVG           |
| 7386.0000 | 45.77         | 7.82   | 53.59          | 74.00    | -20.41 | peak          |
| 7386.0000 | 34.36         | 7.82   | 42.18          | 54.00    | -11.82 | AVG           |
| 9848.0000 | 42.89         | 11.79  | 54.68          | 74.00    | -19.32 | peak          |
| 9848.0000 | 33.19         | 11.79  | 44.98          | 54.00    | -9.02  | AVG           |

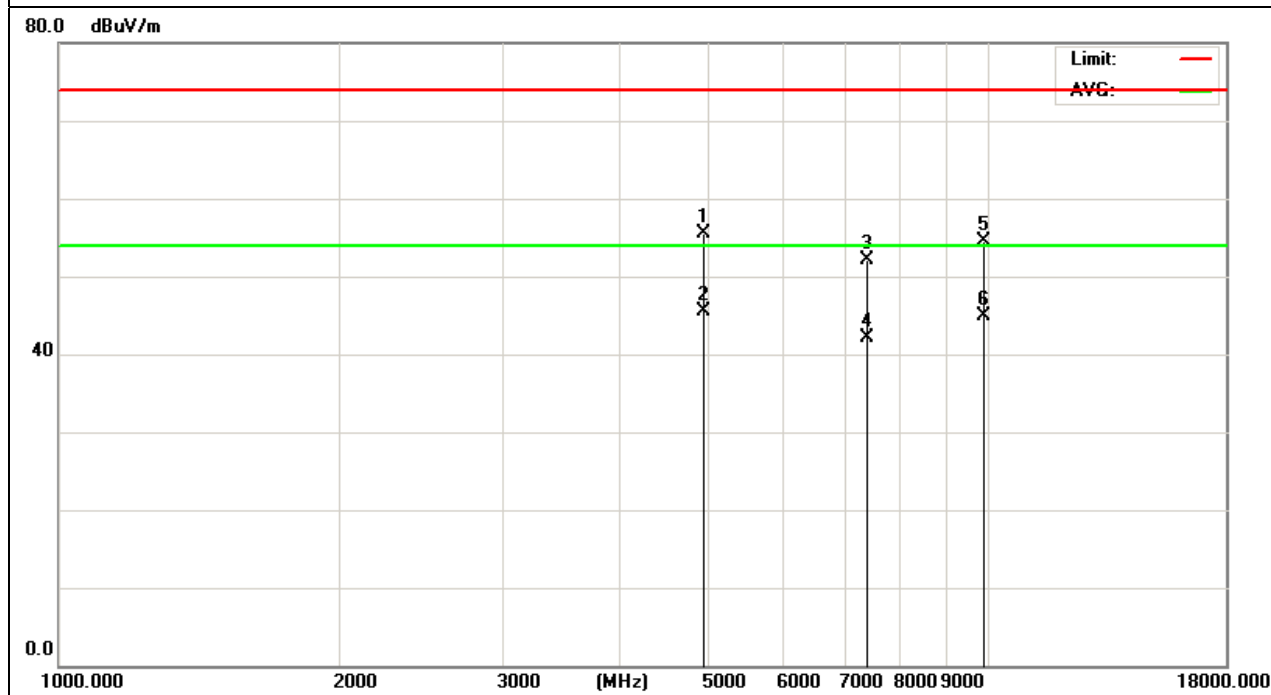
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |               |
|----------------------|-------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200      |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH11 (802.11g; Rate 6Mbps) | Polarization :      | Vertical      |
| Measurement Distance | 3 m                           | Frenqucy Range      | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter            |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4924.0000 | 50.24         | 5.18   | 55.42          | 74.00    | -18.58 | peak          |
| 4924.0000 | 40.33         | 5.18   | 45.51          | 54.00    | -8.49  | AVG           |
| 7386.0000 | 44.25         | 7.82   | 52.07          | 74.00    | -21.93 | peak          |
| 7386.0000 | 34.36         | 7.82   | 42.18          | 54.00    | -11.82 | AVG           |
| 9848.0000 | 42.74         | 11.79  | 54.53          | 74.00    | -19.47 | peak          |
| 9848.0000 | 33.15         | 11.79  | 44.94          | 54.00    | -9.06  | AVG           |

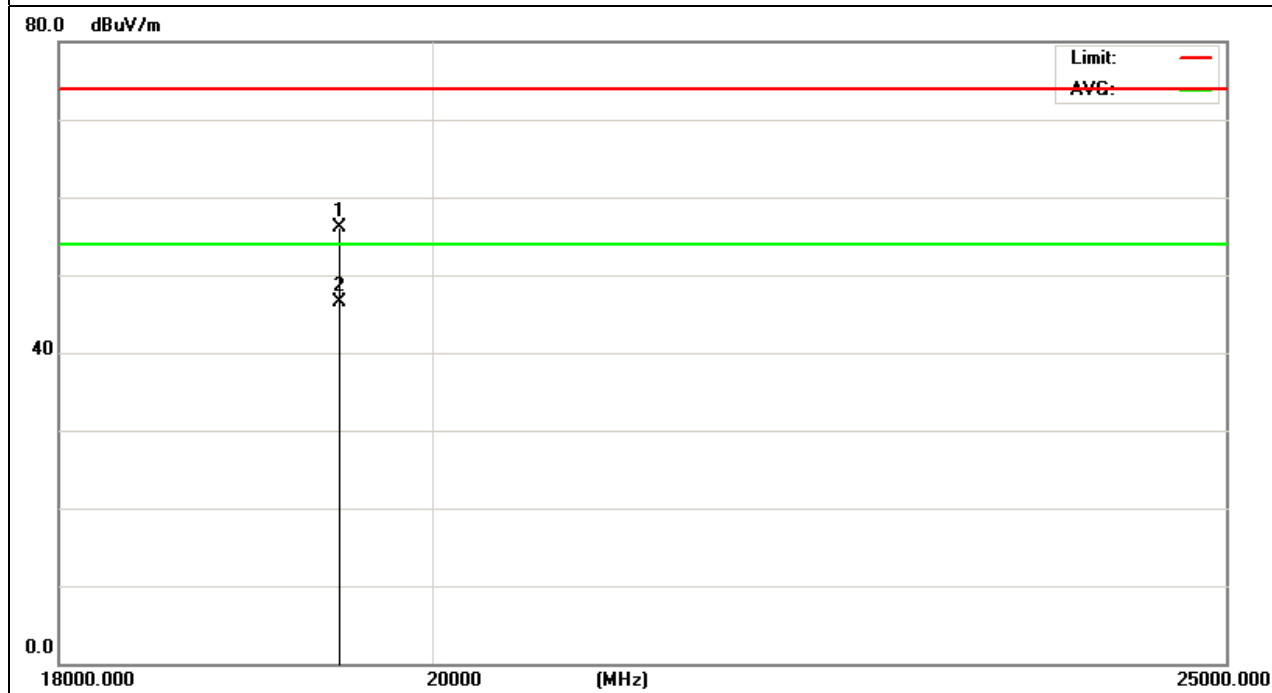
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |                |
|----------------------|-------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200       |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH11 (802.11g; Rate 6Mbps) | Polarization :      | Horizontal     |
| Measurement Distance | 3 m                           | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter            |                     |                |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 19475.000 | 39.52         | 16.50  | 56.02          | 74.00    | -17.98 | peak          |
| 19475.000 | 30.06         | 16.50  | 46.56          | 54.00    | -7.44  | AVG           |

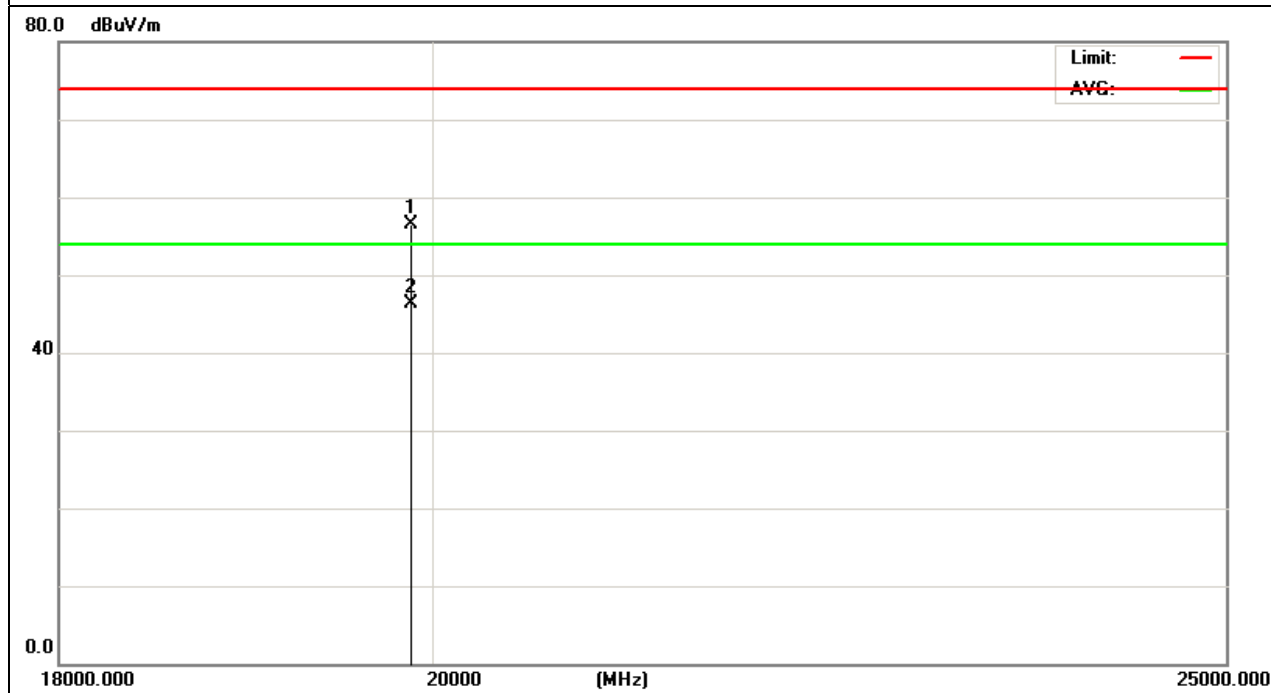
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                               |                     |                |
|----------------------|-------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini            | Model Name :        | W0202200       |
| Temperature :        | 24 °C                         | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                      | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH11 (802.11g; Rate 6Mbps) | Polarization :      | Vertical       |
| Measurement Distance | 3 m                           | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter            |                     |                |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 19878.000 | 39.86         | 16.58  | 56.44          | 74.00    | -17.56 | peak          |
| 19878.000 | 29.75         | 16.58  | 46.33          | 54.00    | -7.67  | AVG           |

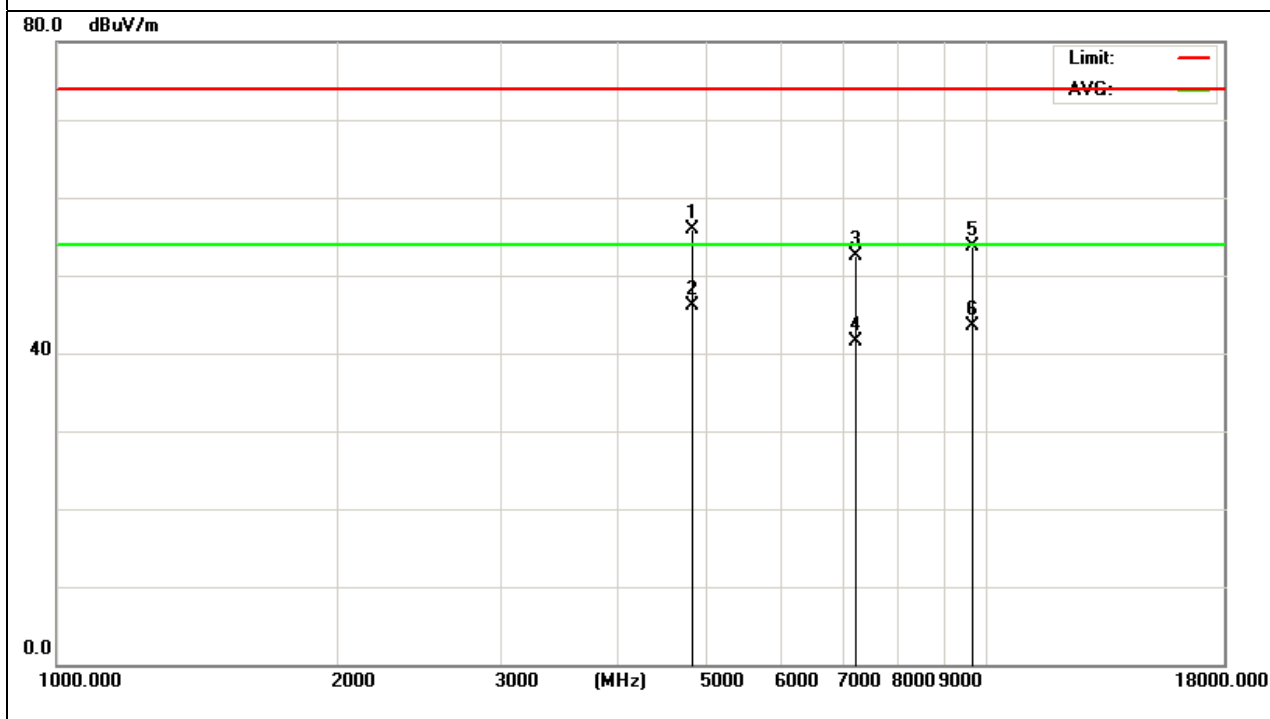
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                                    |                     |               |
|----------------------|------------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini                 | Model Name :        | W0202200      |
| Temperature :        | 24 °C                              | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                           | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH01 (802.11n20 : Rate 6.5Mbps) | Polarization :      | Horizontal    |
| Measurement Distance | 3 m                                | Frenquency Range    | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter                 |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4824.0000 | 50.76         | 5.08   | 55.84          | 74.00    | -18.16 | peak          |
| 4824.0000 | 40.98         | 5.08   | 46.06          | 54.00    | -7.94  | AVG           |
| 7236.0000 | 45.36         | 7.16   | 52.52          | 74.00    | -21.48 | peak          |
| 7236.0000 | 34.25         | 7.16   | 41.41          | 54.00    | -12.59 | AVG           |
| 9648.0000 | 42.88         | 10.82  | 53.70          | 74.00    | -20.30 | peak          |
| 9648.0000 | 32.67         | 10.82  | 43.49          | 54.00    | -10.51 | AVG           |

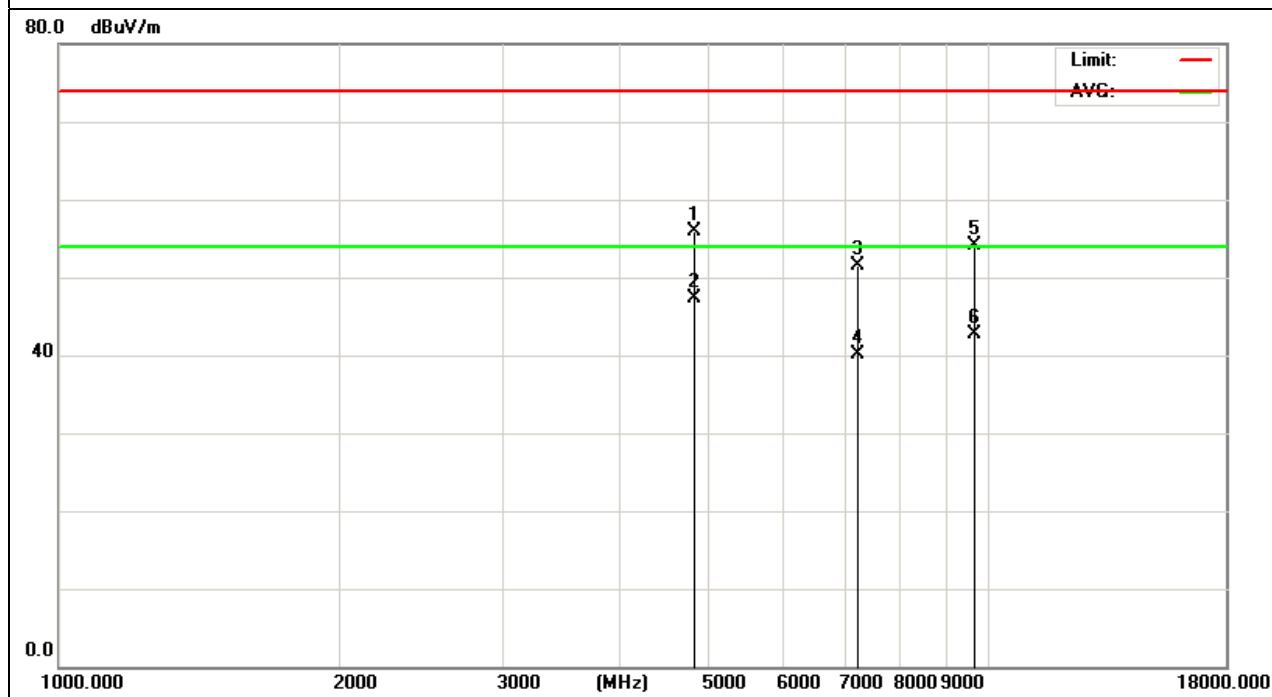
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                                    |                     |               |
|----------------------|------------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini                 | Model Name :        | W0202200      |
| Temperature :        | 24 °C                              | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                           | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH01 (802.11n20 : Rate 6.5Mbps) | Polarization :      | Vertical      |
| Measurement Distance | 3 m                                | Frenquency Range    | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter                 |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4824.0000 | 50.78         | 5.08   | 55.86          | 74.00    | -18.14 | peak          |
| 4824.0000 | 42.26         | 5.08   | 47.34          | 54.00    | -6.66  | AVG           |
| 7236.0000 | 44.31         | 7.16   | 51.47          | 74.00    | -22.53 | peak          |
| 7236.0000 | 32.89         | 7.16   | 40.05          | 54.00    | -13.95 | AVG           |
| 9648.0000 | 43.21         | 10.82  | 54.03          | 74.00    | -19.97 | peak          |
| 9648.0000 | 31.88         | 10.82  | 42.70          | 54.00    | -11.30 | AVG           |

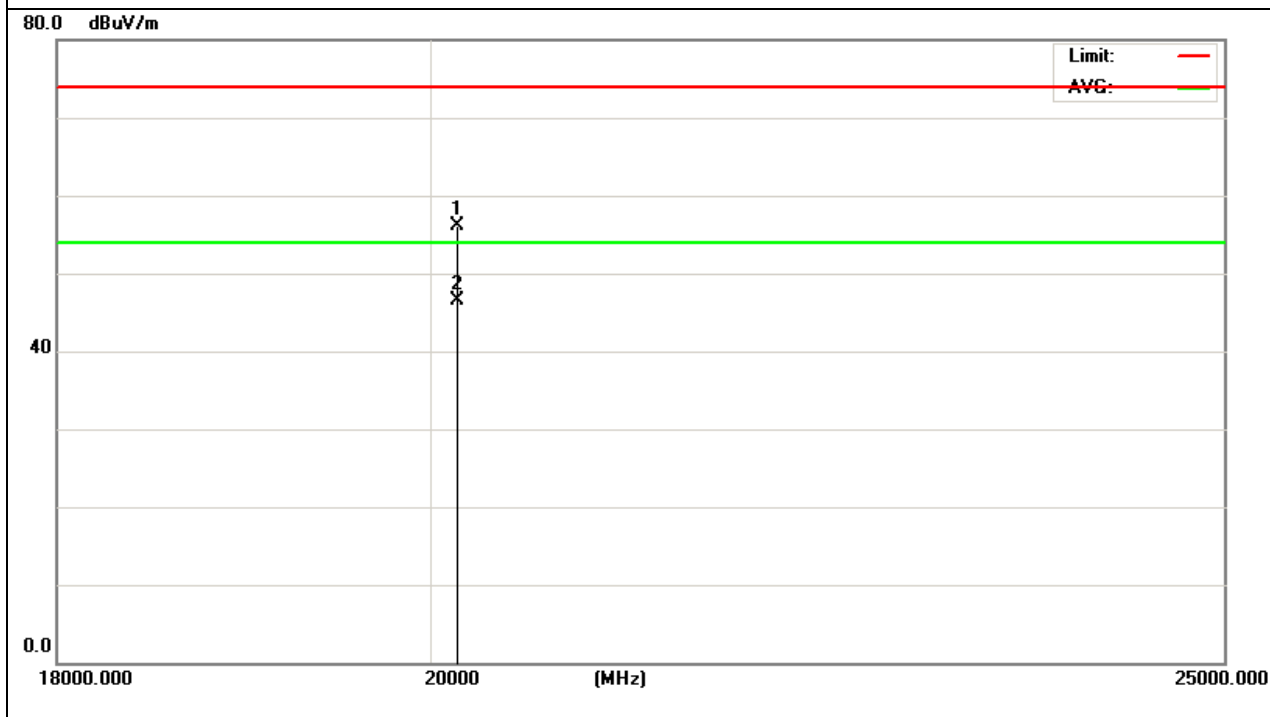
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                                    |                     |                |
|----------------------|------------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini                 | Model Name :        | W0202200       |
| Temperature :        | 24 °C                              | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                           | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH01 (802.11n20 : Rate 6.5Mbps) | Polarization :      | Horizontal     |
| Measurement Distance | 3 m                                | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter                 |                     |                |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 20147.000 | 39.45         | 16.63  | 56.08          | 74.00    | -17.92 | peak          |
| 20147.000 | 29.87         | 16.63  | 46.50          | 54.00    | -7.50  | AVG           |

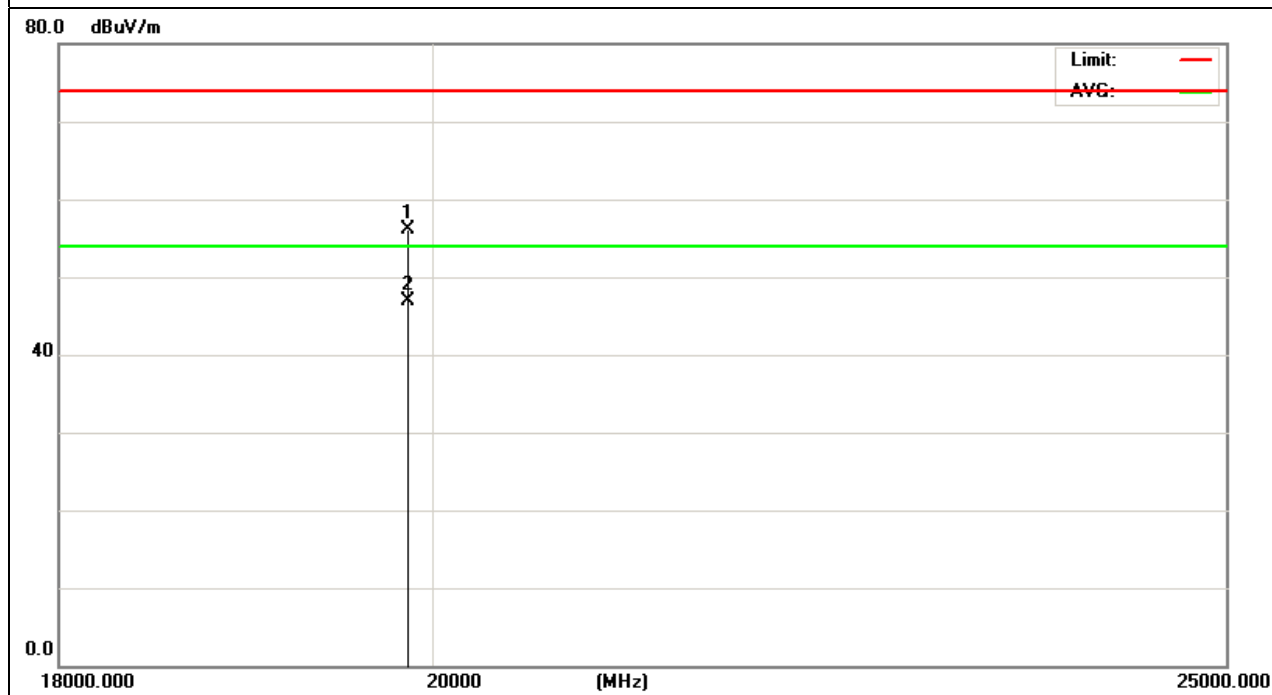
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                                    |                     |                |
|----------------------|------------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini                 | Model Name :        | W0202200       |
| Temperature :        | 24 °C                              | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                           | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH01 (802.11n20 : Rate 6.5Mbps) | Polarization :      | Vertical       |
| Measurement Distance | 3 m                                | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter                 |                     |                |

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 19862.000          | 39.56                   | 16.57          | 56.13                      | 74.00              | -17.87         | peak          |
| 19862.000          | 30.25                   | 16.57          | 46.82                      | 54.00              | -7.18          | AVG           |

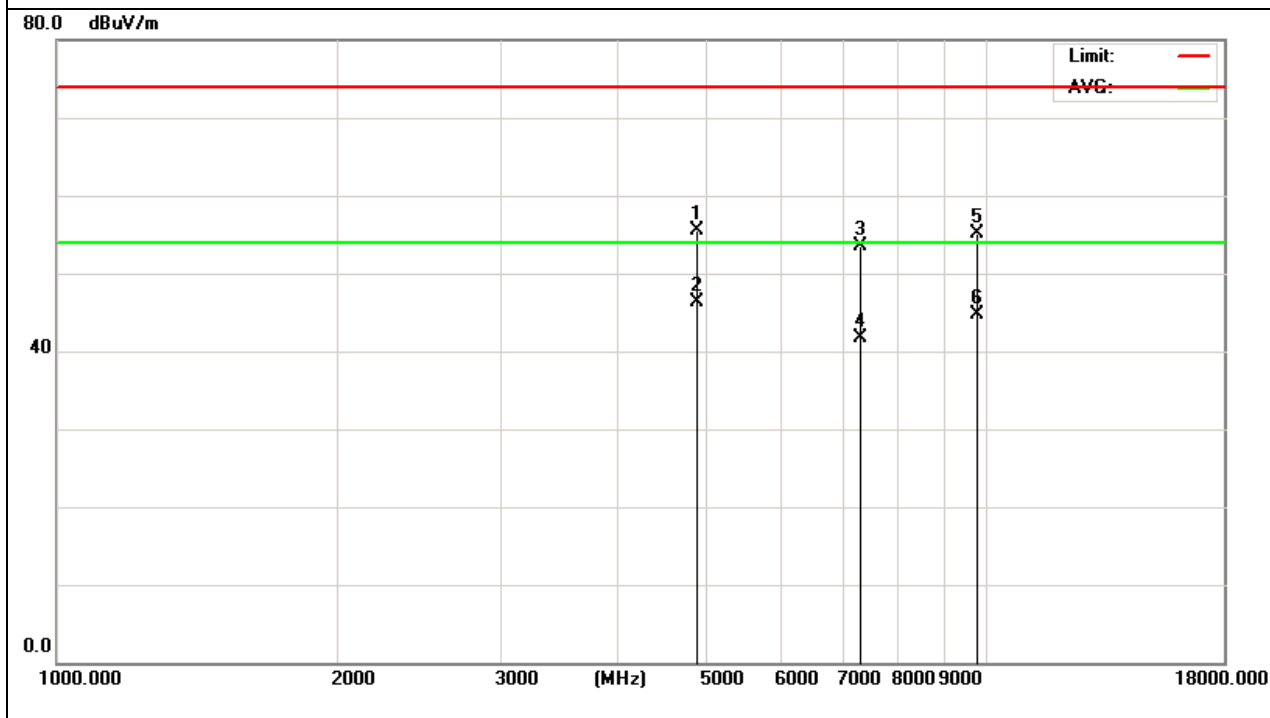
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                                    |                     |               |
|----------------------|------------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini                 | Model Name :        | W0202200      |
| Temperature :        | 24 °C                              | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                           | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH06 (802.11n20 : Rate 6.5Mbps) | Polarization :      | Horizontal    |
| Measurement Distance | 3 m                                | Frenquency Range    | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter                 |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874.0000 | 50.46         | 5.13   | 55.59          | 74.00    | -18.41 | peak          |
| 4874.0000 | 41.09         | 5.13   | 46.22          | 54.00    | -7.78  | AVG           |
| 7311.0000 | 46.02         | 7.49   | 53.51          | 74.00    | -20.49 | peak          |
| 7311.0000 | 34.24         | 7.49   | 41.73          | 54.00    | -12.27 | AVG           |
| 9748.0000 | 43.88         | 11.30  | 55.18          | 74.00    | -18.82 | peak          |
| 9748.0000 | 33.42         | 11.30  | 44.72          | 54.00    | -9.28  | AVG           |

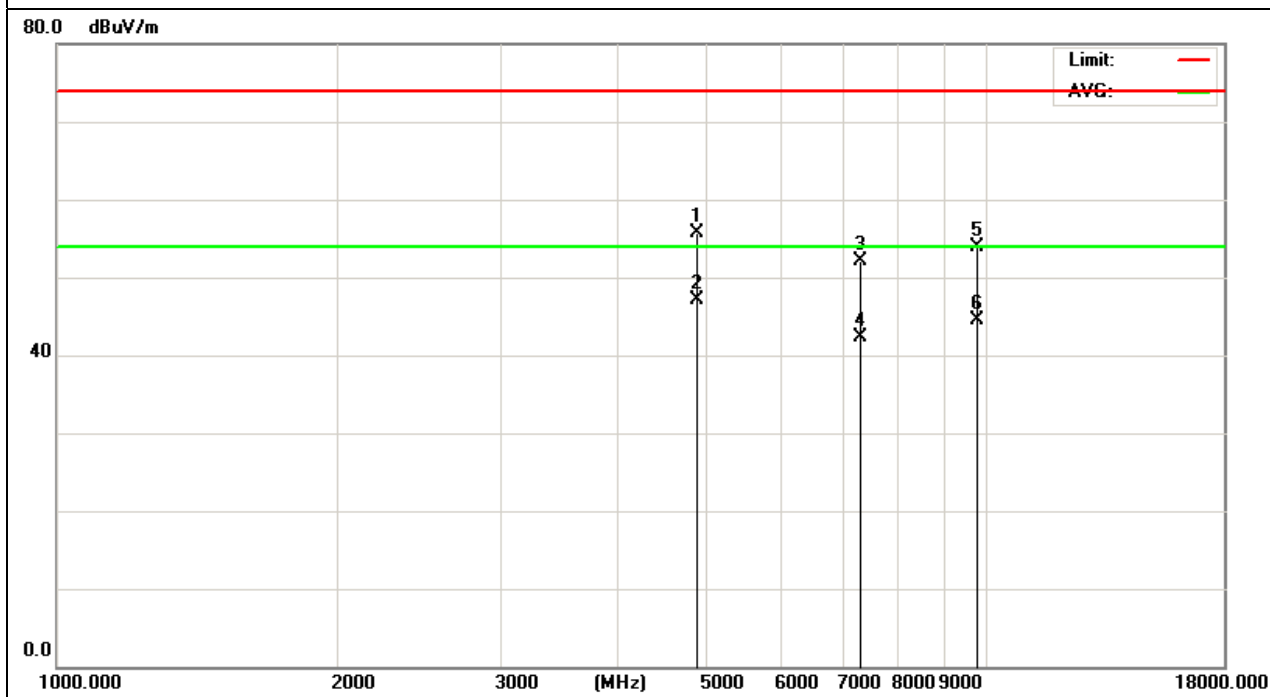
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                                    |                     |               |
|----------------------|------------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini                 | Model Name :        | W0202200      |
| Temperature :        | 24 °C                              | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                           | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH06 (802.11n20 : Rate 6.5Mbps) | Polarization :      | Vertical      |
| Measurement Distance | 3 m                                | Frenquency Range    | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter                 |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4874.0000 | 50.56         | 5.13   | 55.69          | 74.00    | -18.31 | peak          |
| 4874.0000 | 42.02         | 5.13   | 47.15          | 54.00    | -6.85  | AVG           |
| 7311.0000 | 44.57         | 7.49   | 52.06          | 74.00    | -21.94 | peak          |
| 7311.0000 | 34.89         | 7.49   | 42.38          | 54.00    | -11.62 | AVG           |
| 9748.0000 | 42.63         | 11.30  | 53.93          | 74.00    | -20.07 | peak          |
| 9748.0000 | 33.25         | 11.30  | 44.55          | 54.00    | -9.45  | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                                    |                     |                |
|----------------------|------------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini                 | Model Name :        | W0202200       |
| Temperature :        | 24 °C                              | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                           | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH06 (802.11n20 : Rate 6.5Mbps) | Polarization :      | Horizontal     |
| Measurement Distance | 3 m                                | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter                 |                     |                |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 19069.000 | 39.87         | 16.42  | 56.29          | 74.00    | -17.71 | peak          |
| 19069.000 | 30.16         | 16.42  | 46.58          | 54.00    | -7.42  | AVG           |

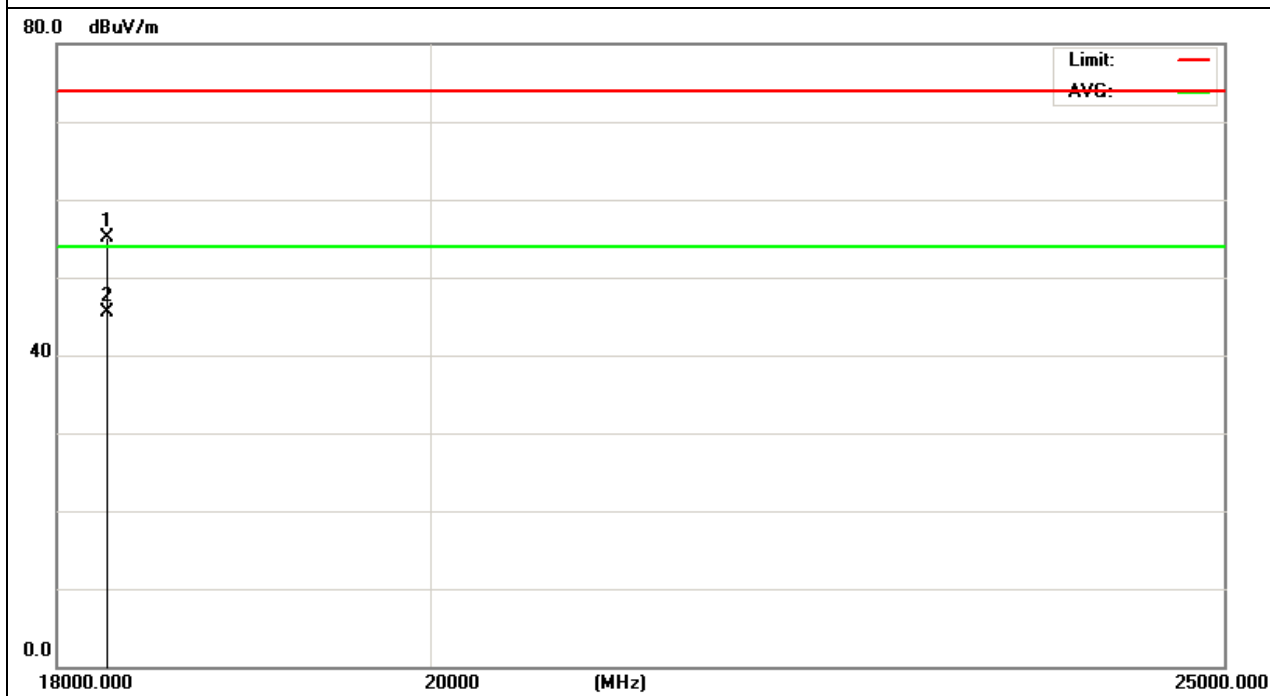
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                                    |                     |                |
|----------------------|------------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini                 | Model Name :        | W0202200       |
| Temperature :        | 24 °C                              | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                           | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH06 (802.11n20 : Rate 6.5Mbps) | Polarization :      | Vertical       |
| Measurement Distance | 3 m                                | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter                 |                     |                |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 18257.000 | 39.46         | 15.65  | 55.11          | 74.00    | -18.89 | peak          |
| 18257.000 | 29.82         | 15.65  | 45.47          | 54.00    | -8.53  | AVG           |

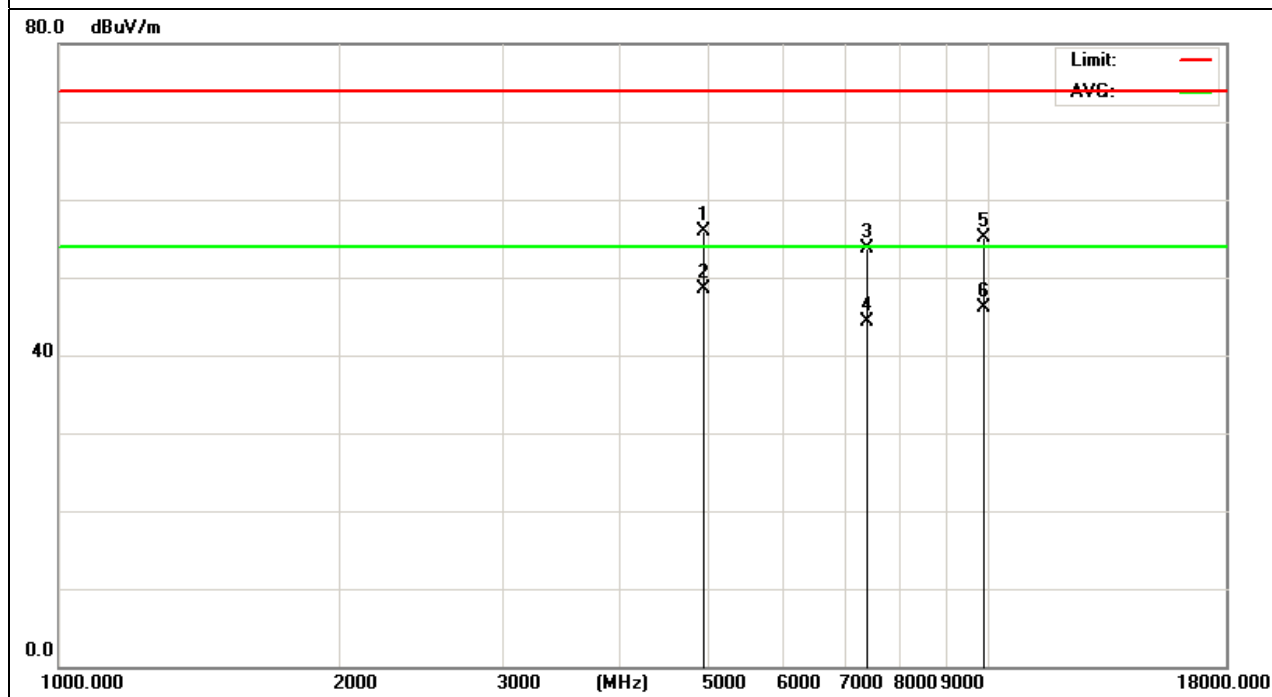
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                                    |                     |               |
|----------------------|------------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini                 | Model Name :        | W0202200      |
| Temperature :        | 24 °C                              | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                           | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH11 (802.11n20 : Rate 6.5Mbps) | Polarization :      | Horizontal    |
| Measurement Distance | 3 m                                | Frenquency Range    | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter                 |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4924.0000 | 50.74         | 5.18   | 55.92          | 74.00    | -18.08 | peak          |
| 4924.0000 | 43.36         | 5.18   | 48.54          | 54.00    | -5.46  | AVG           |
| 7386.0000 | 45.85         | 7.82   | 53.67          | 74.00    | -20.33 | peak          |
| 7386.0000 | 36.49         | 7.82   | 44.31          | 54.00    | -9.69  | AVG           |
| 9848.0000 | 43.32         | 11.79  | 55.11          | 74.00    | -18.89 | peak          |
| 9848.0000 | 34.28         | 11.79  | 46.07          | 54.00    | -7.93  | AVG           |

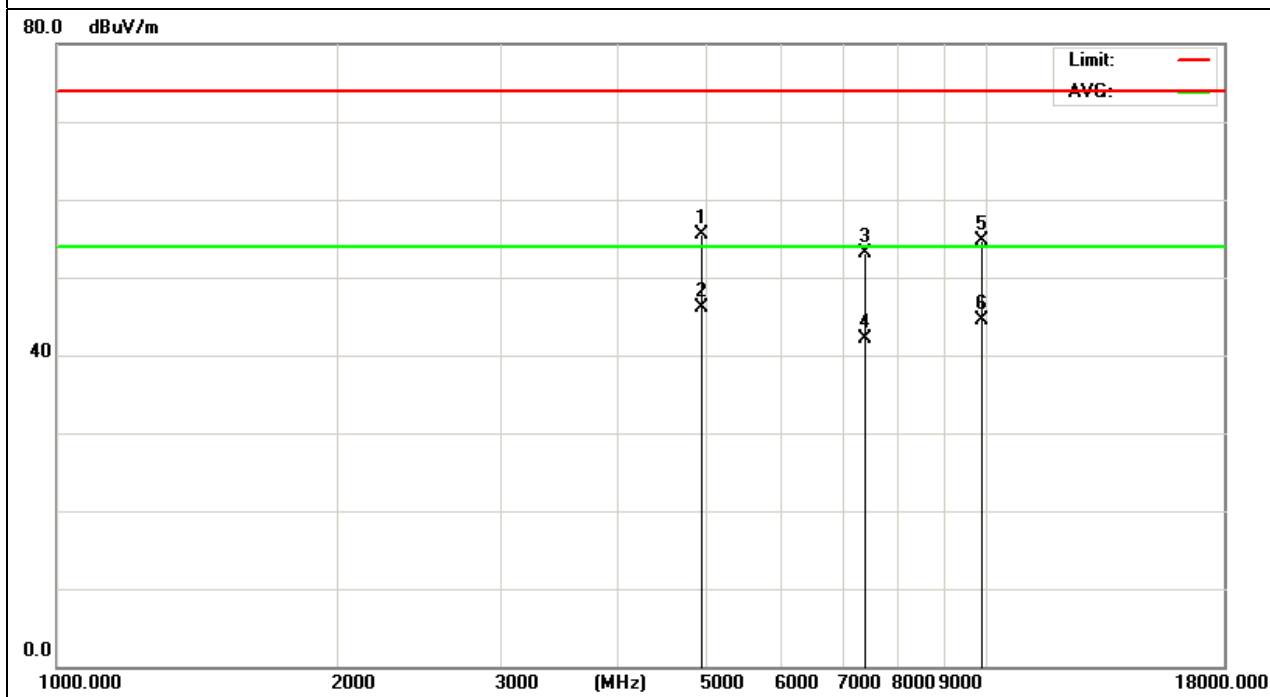
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                                    |                     |               |
|----------------------|------------------------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini                 | Model Name :        | W0202200      |
| Temperature :        | 24 °C                              | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa                           | Test Date :         | 2020-04-01    |
| Test Mode :          | TX CH11 (802.11n20 : Rate 6.5Mbps) | Polarization :      | Vertical      |
| Measurement Distance | 3 m                                | Frenquency Range    | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter                 |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 4924.0000 | 50.29         | 5.18   | 55.47          | 74.00    | -18.53 | peak          |
| 4924.0000 | 41.02         | 5.18   | 46.20          | 54.00    | -7.80  | AVG           |
| 7386.0000 | 45.33         | 7.82   | 53.15          | 74.00    | -20.85 | peak          |
| 7386.0000 | 34.21         | 7.82   | 42.03          | 54.00    | -11.97 | AVG           |
| 9848.0000 | 42.88         | 11.79  | 54.67          | 74.00    | -19.33 | peak          |
| 9848.0000 | 32.74         | 11.79  | 44.53          | 54.00    | -9.47  | AVG           |

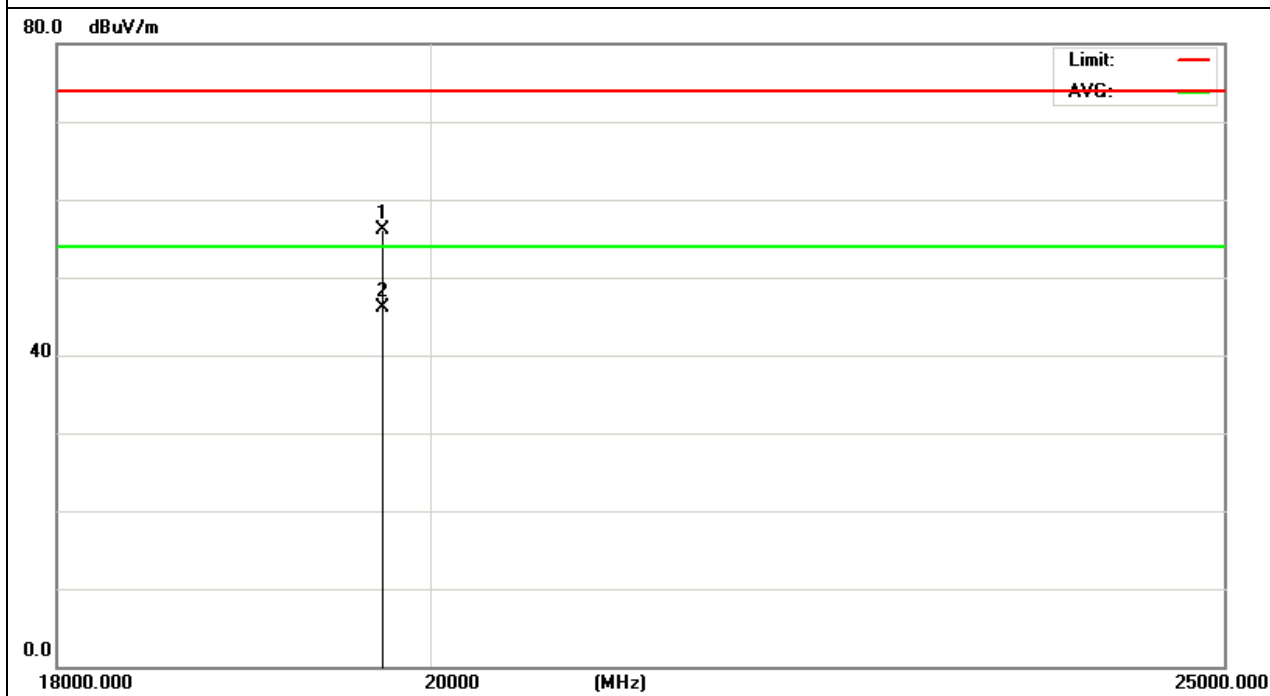
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                                    |                     |                |
|----------------------|------------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini                 | Model Name :        | W0202200       |
| Temperature :        | 24 °C                              | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                           | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH11 (802.11n20 : Rate 6.5Mbps) | Polarization :      | Horizontal     |
| Measurement Distance | 3 m                                | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter                 |                     |                |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 19724.000 | 39.63         | 16.55  | 56.18          | 74.00    | -17.82 | peak          |
| 19724.000 | 29.54         | 16.55  | 46.09          | 54.00    | -7.91  | AVG           |

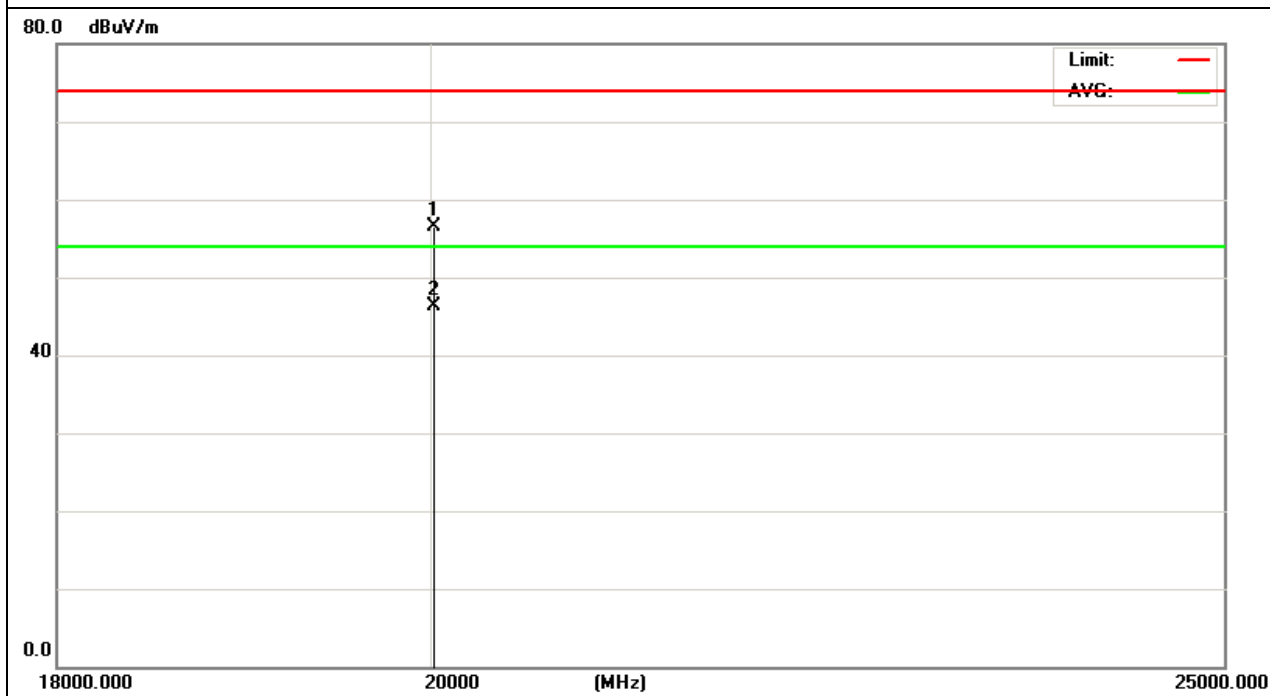
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                                    |                     |                |
|----------------------|------------------------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini                 | Model Name :        | W0202200       |
| Temperature :        | 24 °C                              | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa                           | Test Date :         | 2020-04-01     |
| Test Mode :          | TX CH11 (802.11n20 : Rate 6.5Mbps) | Polarization :      | Vertical       |
| Measurement Distance | 3 m                                | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter                 |                     |                |

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 20016.000          | 39.89                   | 16.61          | 56.50                      | 74.00              | -17.50         |               |
| 20016.000          | 29.74                   | 16.61          | 46.35                      | 54.00              | -7.65          | AVG           |

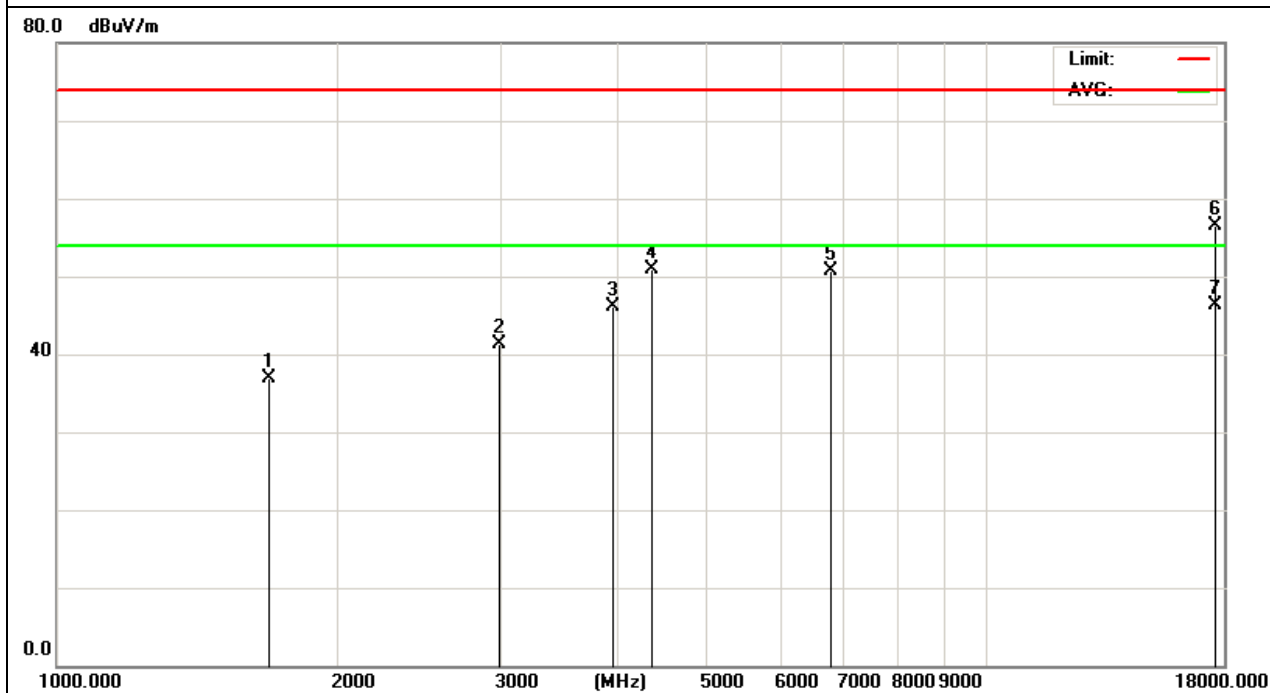
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                    |                     |               |
|----------------------|--------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini | Model Name :        | W0202200      |
| Temperature :        | 24 °C              | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa           | Test Date :         | 2020-04-01    |
| Test Mode :          | RX                 | Polarization :      | Horizontal    |
| Measurement Distance | 3 m                | Frenquency Range    | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 1688.652  | 46.52         | -9.66  | 36.86          | 74.00    | -37.14 | peak          |
| 2985.024  | 43.17         | -1.78  | 41.39          | 74.00    | -32.61 | peak          |
| 3949.963  | 42.61         | 3.47   | 46.08          | 74.00    | -27.92 | peak          |
| 4366.025  | 46.36         | 4.46   | 50.82          | 74.00    | -23.18 | peak          |
| 6788.893  | 44.58         | 6.04   | 50.62          | 74.00    | -23.38 | peak          |
| 17635.014 | 31.58         | 24.94  | 56.52          | 74.00    | -17.48 | peak          |
| 17635.014 | 21.36         | 24.94  | 46.30          | 54.00    | -7.70  | AVG           |

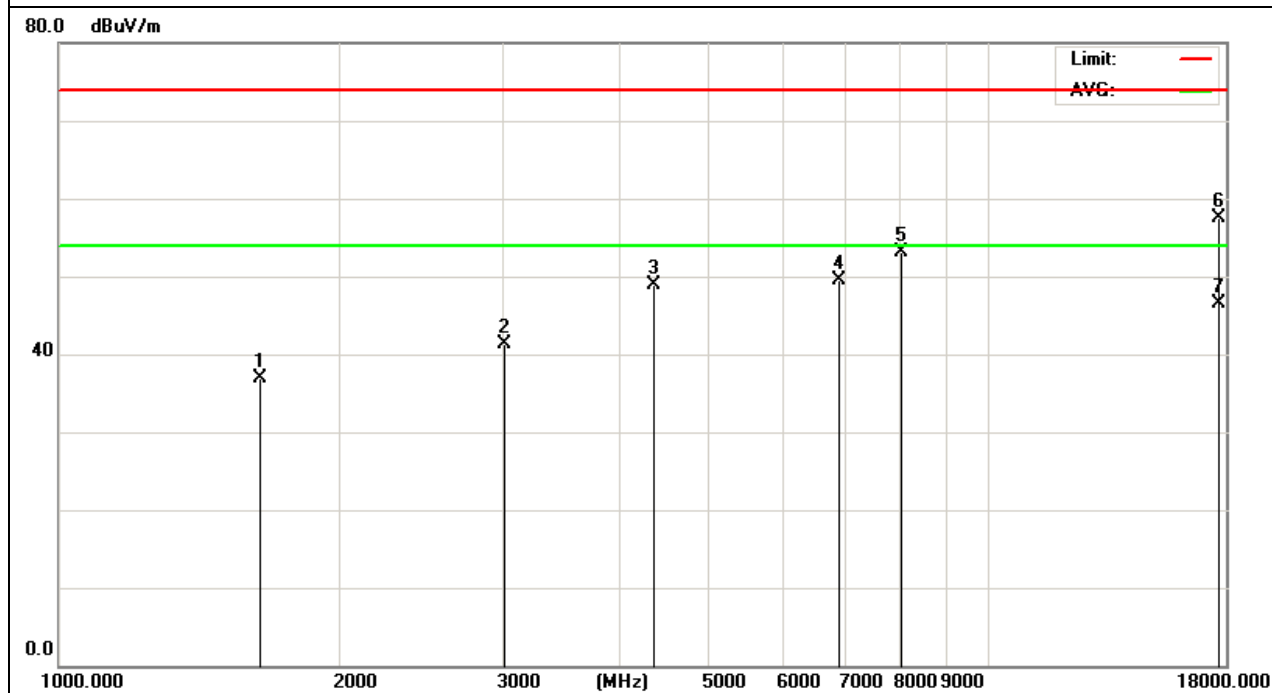
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                    |                     |               |
|----------------------|--------------------|---------------------|---------------|
| EUT :                | SwitchBot Hub Mini | Model Name :        | W0202200      |
| Temperature :        | 24 °C              | Relative Humidity : | 54%           |
| Pressure :           | 1010 hPa           | Test Date :         | 2020-04-01    |
| Test Mode :          | RX                 | Polarization :      | Vertical      |
| Measurement Distance | 3 m                | Frenquency Range    | 1GHz to 18GHz |
| Test Power :         | DC 5V from Adapter |                     |               |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 1644.258  | 46.79         | -9.79  | 37.00          | 74.00    | -37.00 | peak          |
| 3015.552  | 42.88         | -1.65  | 41.23          | 74.00    | -32.77 | peak          |
| 4366.364  | 44.36         | 4.46   | 48.82          | 74.00    | -25.18 | peak          |
| 6875.369  | 43.47         | 6.10   | 49.57          | 74.00    | -24.43 | peak          |
| 8041.321  | 42.63         | 10.43  | 53.06          | 74.00    | -20.94 | peak          |
| 17666.021 | 32.69         | 24.91  | 57.60          | 74.00    | -16.40 | peak          |
| 17666.021 | 21.56         | 24.91  | 46.47          | 54.00    | -7.53  | AVG           |

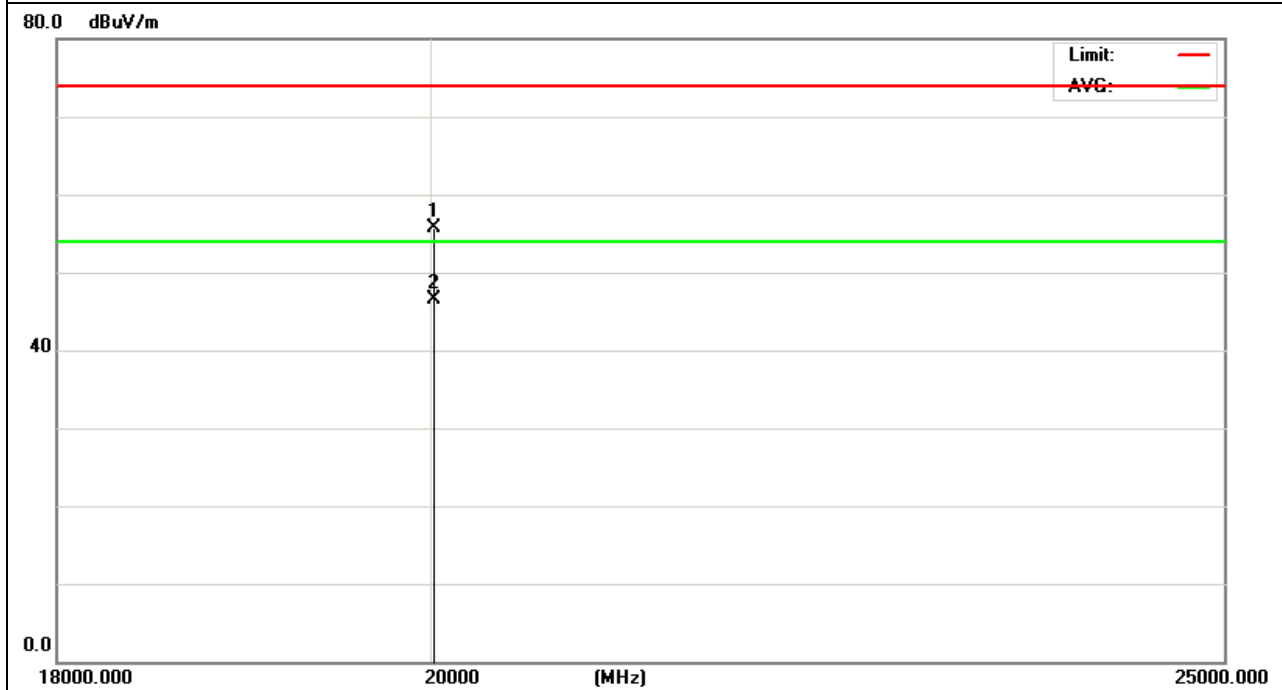
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                    |                     |                |
|----------------------|--------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini | Model Name :        | W0202200       |
| Temperature :        | 24 °C              | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa           | Test Date :         | 2020-04-01     |
| Test Mode :          | RX                 | Polarization :      | Horizontal     |
| Measurement Distance | 3 m                | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter |                     |                |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 20015.000 | 39.02         | 16.61  | 55.63          | 74.00    | -18.37 | peak          |
| 20015.000 | 29.88         | 16.61  | 46.49          | 54.00    | -7.51  | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



|                      |                    |                     |                |
|----------------------|--------------------|---------------------|----------------|
| EUT :                | SwitchBot Hub Mini | Model Name :        | W0202200       |
| Temperature :        | 24 °C              | Relative Humidity : | 54%            |
| Pressure :           | 1010 hPa           | Test Date :         | 2020-04-01     |
| Test Mode :          | RX                 | Polarization :      | Vertical       |
| Measurement Distance | 3 m                | Frenqucy Range      | 18GHz to 25GHz |
| Test Power :         | DC 5V from Adapter |                     |                |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 20034.000 | 39.16         | 16.61  | 55.77          | 74.00    | -18.23 | peak          |
| 20034.000 | 29.41         | 16.61  | 46.02          | 54.00    | -7.98  | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



### 3.2.7 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

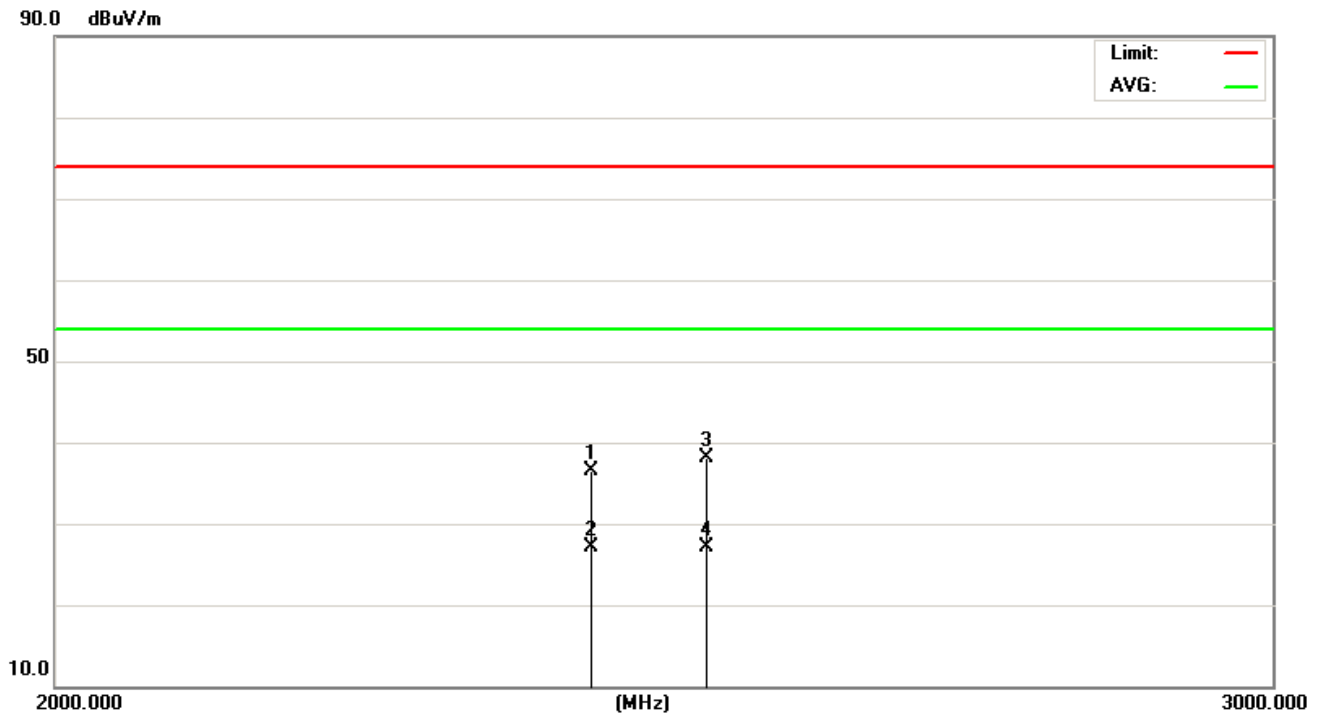
|               |                                                                                                                                                                                                                                                                                                                          |                     |                    |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                                                                                                                                                                                                                                                                                                       | Model Name :        | W0202200           |
| Temperature : | 24 °C                                                                                                                                                                                                                                                                                                                    | Relative Humidity : | 51%                |
| Pressure :    | 1010 hPa                                                                                                                                                                                                                                                                                                                 | Test Voltage :      | DC 5V from Adapter |
| Test Date :   | 2020-04-01                                                                                                                                                                                                                                                                                                               |                     |                    |
| Test Mode :   | 802.11b Data rate 1Mbps                                                                                                                                                                                                                                                                                                  |                     |                    |
| Note :        | 1. The transmitter was setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.<br>2. The transmitter was setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.<br>3. The data of 2390MHz and 2483.5MHz was the worst. |                     |                    |

| Freq.<br>(MHz) | Ant.Pol.<br>H/V | Reading        |              | Ant/CF<br>CF(dB) | Act              |                | Limit            |                | Note |
|----------------|-----------------|----------------|--------------|------------------|------------------|----------------|------------------|----------------|------|
|                |                 | Peak<br>(dBuv) | AV<br>(dBuv) |                  | Peak<br>(dBuv/m) | AV<br>(dBuv/m) | Peak<br>(dBuv/m) | AV<br>(dBuv/m) |      |
| 2390.00        | H               | 42.43          | 32.96        | -5.79            | 36.64            | 27.17          | 74.00            | 54.00          | CH01 |
| 2390.00        | V               | 43.58          | 33.97        | -5.79            | 37.79            | 28.18          | 74.00            | 54.00          | CH01 |
| 2483.50        | H               | 43.46          | 27.33        | -4.98            | 38.48            | 22.35          | 74.00            | 54.00          | CH11 |
| 2483.50        | V               | 43.52          | 32.16        | -4.98            | 38.54            | 27.18          | 74.00            | 54.00          | CH11 |

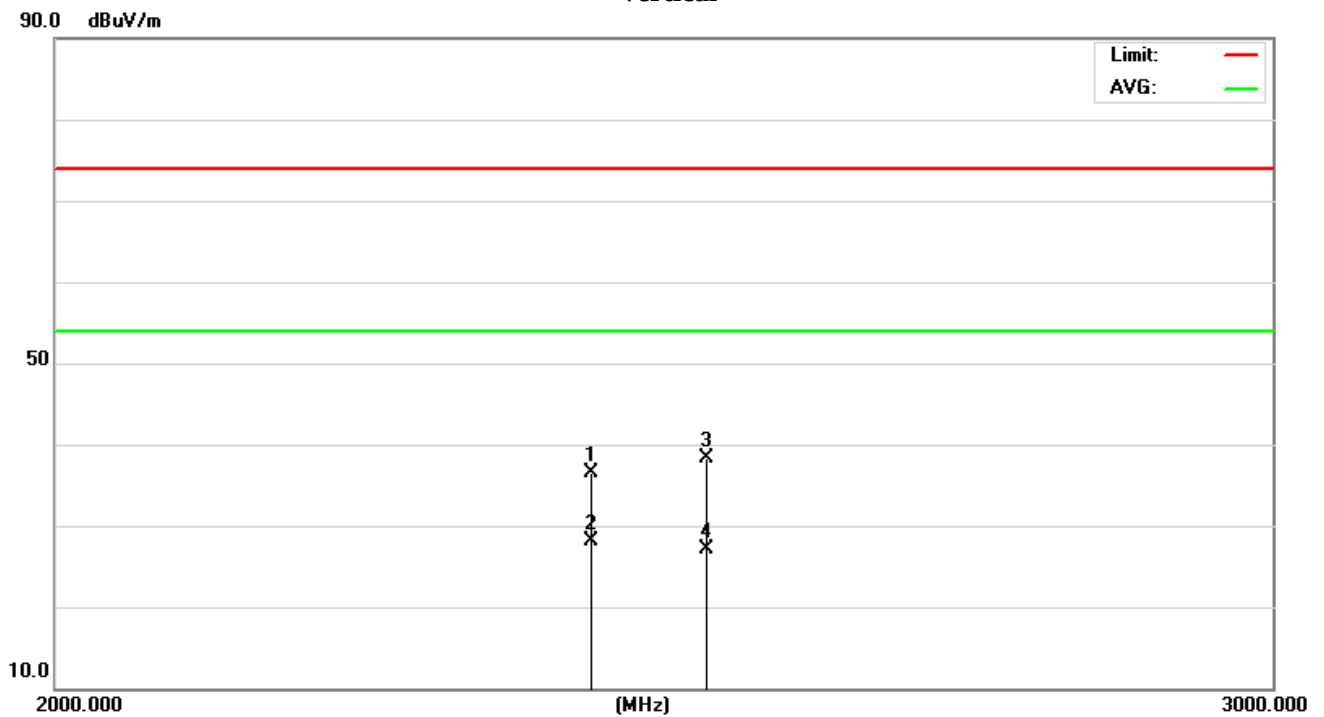
#### Remark :

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode
- (2) EUT Orthogonal Axis :  
 "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (3) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (4) Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

### Horizontal



### Vertical



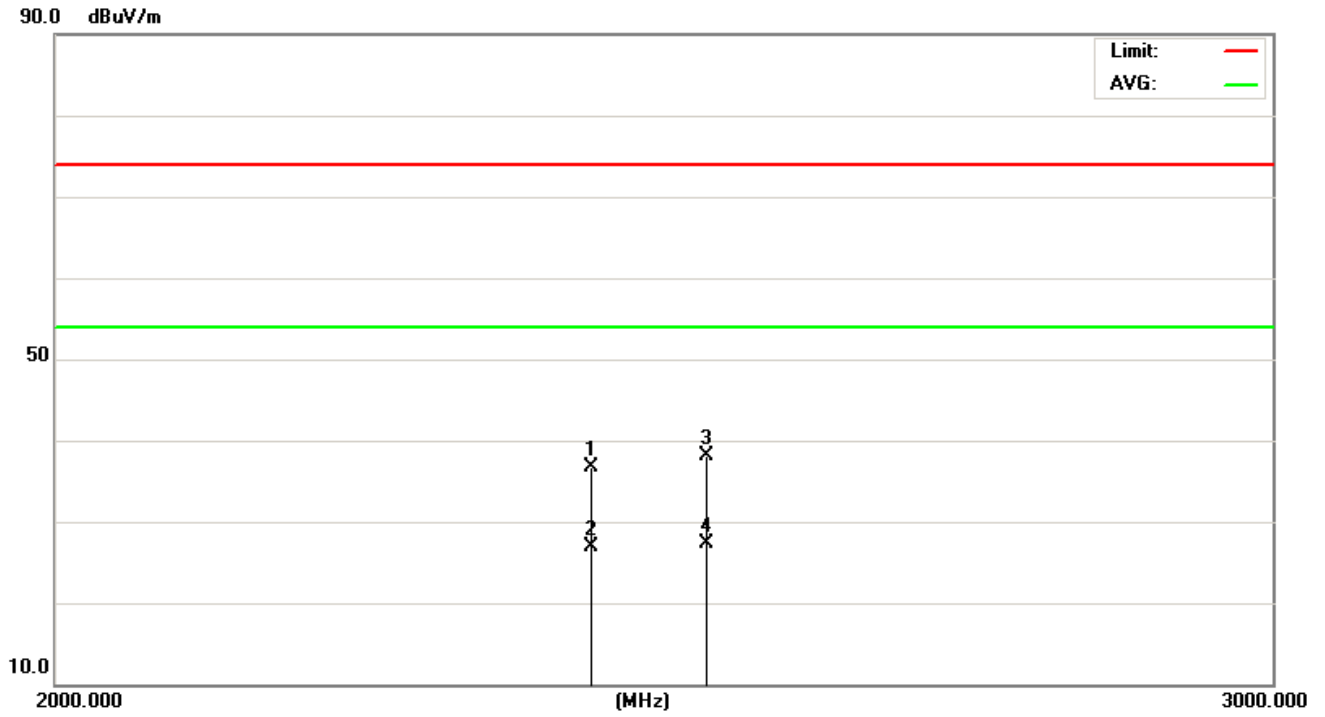
|               |                                                                                                                                                                                                                                                                                                                           |                     |                    |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                                                                                                                                                                                                                                                                                                        | Model Name :        | W0202200           |
| Temperature : | 24 °C                                                                                                                                                                                                                                                                                                                     | Relative Humidity : | 51%                |
| Pressure :    | 1010 hPa                                                                                                                                                                                                                                                                                                                  | Test Voltage :      | DC 5V from Adapter |
| Test Date :   | 2020-04-01                                                                                                                                                                                                                                                                                                                |                     |                    |
| Test Mode :   | 802.11g Data rate 6Mbps                                                                                                                                                                                                                                                                                                   |                     |                    |
| Note :        | 1. The transmitter was setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.<br>2. The transmitter was setup to transmit at the highest channel (CH11 ). Then the field strength was measured at 2483.5-2500 MHz.<br>3. The data of 2390MHz and 2483.5MHz was the worst. |                     |                    |

| Freq.<br>(MHz) | Ant.Pol.<br>H/V | Reading        |              | Ant/CF<br>CF(dB) | Act              |                | Limit            |                | Note |
|----------------|-----------------|----------------|--------------|------------------|------------------|----------------|------------------|----------------|------|
|                |                 | Peak<br>(dBuv) | AV<br>(dBuv) |                  | Peak<br>(dBuv/m) | AV<br>(dBuv/m) | Peak<br>(dBuv/m) | AV<br>(dBuv/m) |      |
| 2390.00        | H               | 42.58          | 32.81        | -5.79            | 36.79            | 27.02          | 74.00            | 54.00          | CH01 |
| 2390.00        | V               | 43.41          | 33.68        | -5.79            | 37.62            | 27.89          | 74.00            | 54.00          | CH01 |
| 2483.50        | H               | 43.22          | 27.39        | -4.98            | 38.24            | 22.41          | 74.00            | 54.00          | CH11 |
| 2483.50        | V               | 43.36          | 32.24        | -4.98            | 38.38            | 27.26          | 74.00            | 54.00          | CH11 |

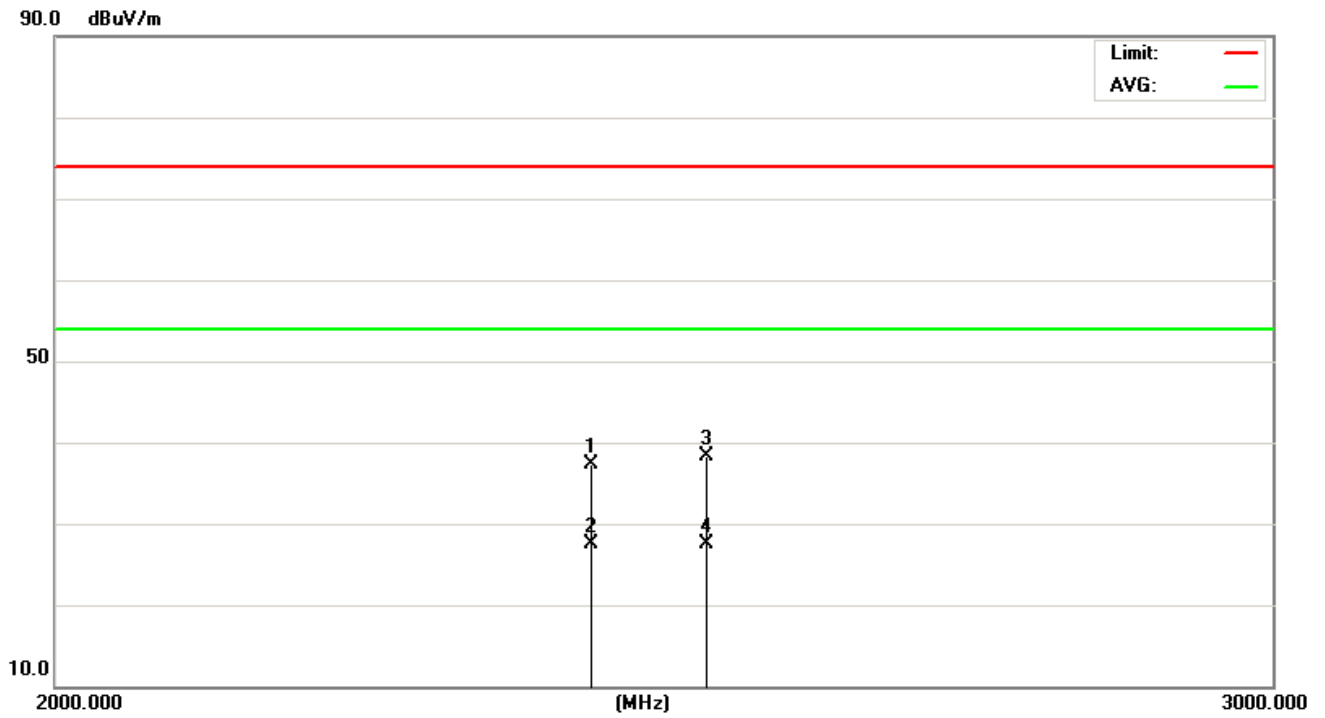
## Remark :

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode
- (2) EUT Orthogonal Axis :  
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (3) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (4) Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Horizontal



Vertical



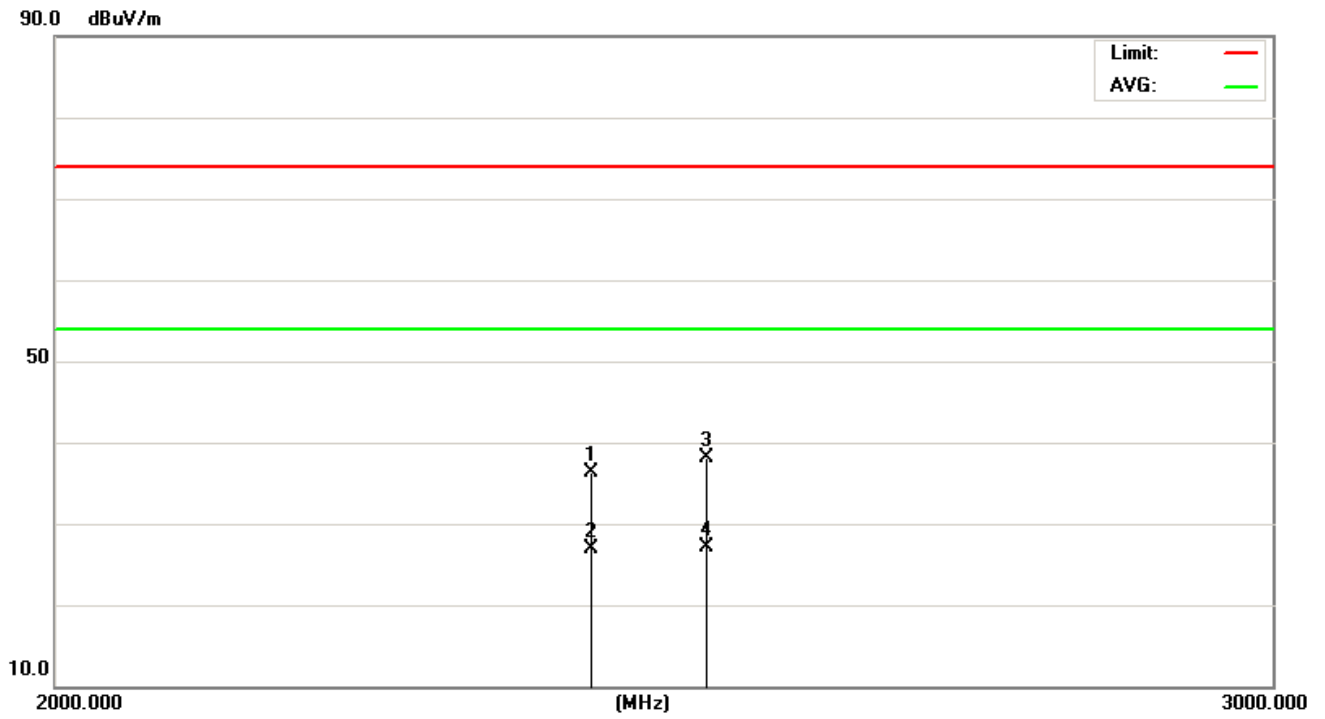
|               |                                                                                                                                                                                                                                                                                                                           |                     |                    |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                                                                                                                                                                                                                                                                                                        | Model Name :        | W0202200           |
| Temperature : | 24 °C                                                                                                                                                                                                                                                                                                                     | Relative Humidity : | 51%                |
| Pressure :    | 1010 hPa                                                                                                                                                                                                                                                                                                                  | Test Voltage :      | DC 5V from Adapter |
| Test Date :   | 2020-04-01                                                                                                                                                                                                                                                                                                                |                     |                    |
| Test Mode :   | 802.11n20 Data rate 6.5Mbps                                                                                                                                                                                                                                                                                               |                     |                    |
| Note :        | 1. The transmitter was setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.<br>2. The transmitter was setup to transmit at the highest channel (CH11 ). Then the field strength was measured at 2483.5-2500 MHz.<br>3. The data of 2390MHz and 2483.5MHz was the worst. |                     |                    |

| Freq.<br>(MHz) | Ant.Pol.<br>H/V | Reading        |              | Ant/CF<br>CF(dB) | Act              |                | Limit            |                | Note |
|----------------|-----------------|----------------|--------------|------------------|------------------|----------------|------------------|----------------|------|
|                |                 | Peak<br>(dBuv) | AV<br>(dBuv) |                  | Peak<br>(dBuv/m) | AV<br>(dBuv/m) | Peak<br>(dBuv/m) | AV<br>(dBuv/m) |      |
| 2390.00        | H               | 42.39          | 32.49        | -5.79            | 36.6             | 26.7           | 74.00            | 54.00          | CH01 |
| 2390.00        | V               | 42.41          | 33.45        | -5.79            | 36.62            | 27.66          | 74.00            | 54.00          | CH01 |
| 2483.50        | H               | 43.23          | 32.11        | -4.98            | 38.25            | 27.13          | 74.00            | 54.00          | CH11 |
| 2483.50        | V               | 43.16          | 32.25        | -4.98            | 38.18            | 27.27          | 74.00            | 54.00          | CH11 |

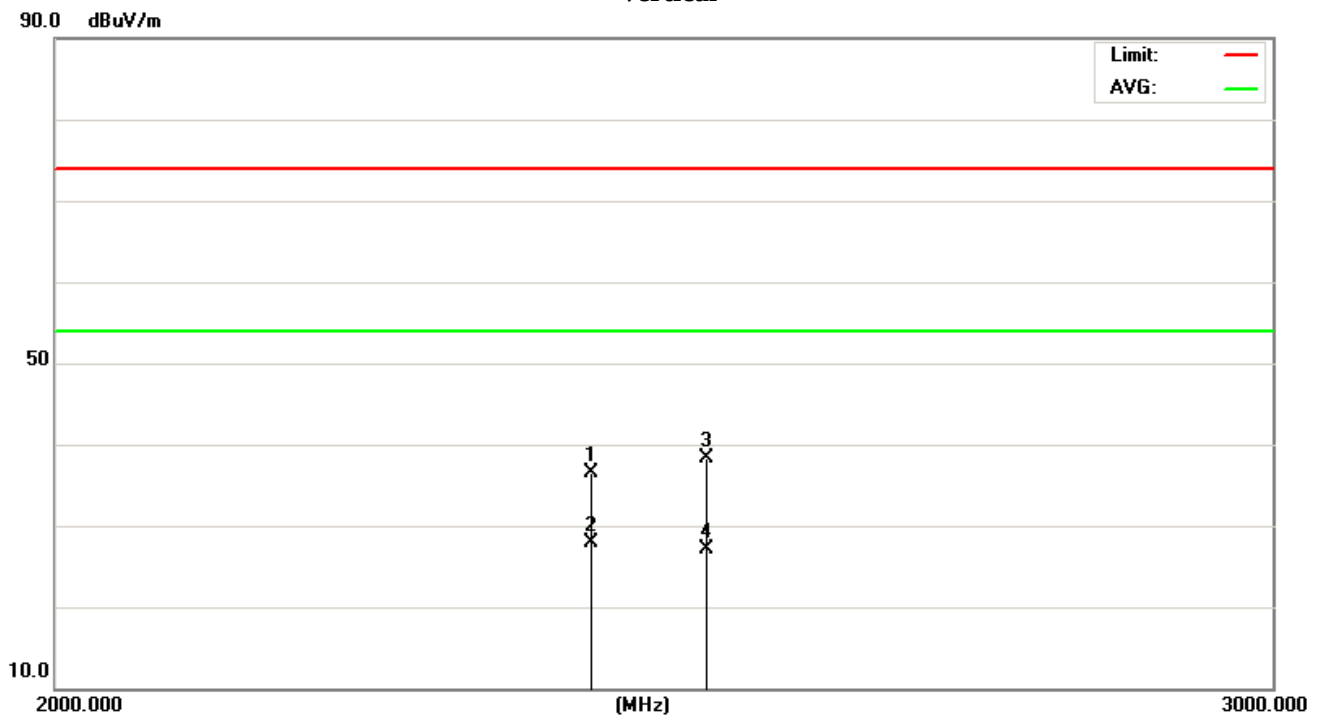
## Remark :

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode
- (2) EUT Orthogonal Axis :  
“X” - denotes Laid on Table ; ”Y” - denotes Vertical Stand ; ”Z” - denotes Side Stand
- (3) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (4) Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

### Horizontal



### Vertical



## 4. OCCUPIED BANDWIDTH TEST

### 4.1 APPLIED PROCEDURES / LIMIT

| LP0002        |           |                                         |                       |        |
|---------------|-----------|-----------------------------------------|-----------------------|--------|
| Section       | Test Item | Limit                                   | Frequency Range (MHz) | Result |
| 3.10.1(6.2.1) | Bandwidth | $\geq 500\text{kHz}$<br>(6dB bandwidth) | 2400-2483.5           | PASS   |

| Spectrum Parameter | Setting                                                |
|--------------------|--------------------------------------------------------|
| Attenuation        | Auto                                                   |
| Span Frequency     | $>$ Measurement Bandwidth or Channel Separation        |
| RB                 | 100 kHz (6dB Bandwidth) / 100 kHz (Channel Separation) |
| VB                 | 300 kHz (6dB Bandwidth) / 300 kHz (Channel Separation) |
| Detector           | Peak                                                   |
| Trace              | Max Hold                                               |
| Sweep Time         | Auto                                                   |

#### 4.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100kHz, VBW=300kHz, Sweep time = Auto.

#### 4.1.2 TEST SETUP



#### 4.1.3 EUT OPERATION CONDITIONS

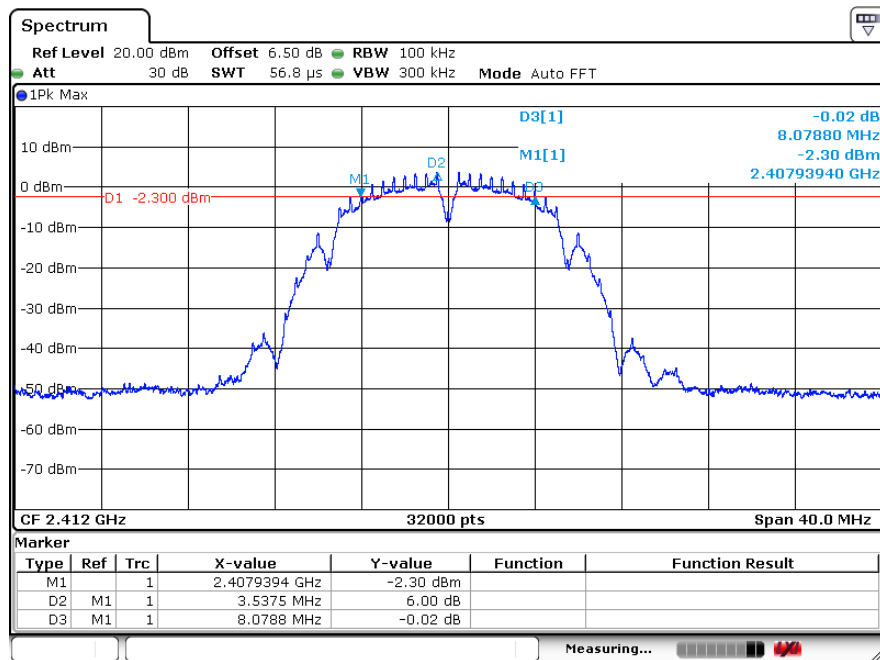
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

## 4.1.4 TEST RESULTS

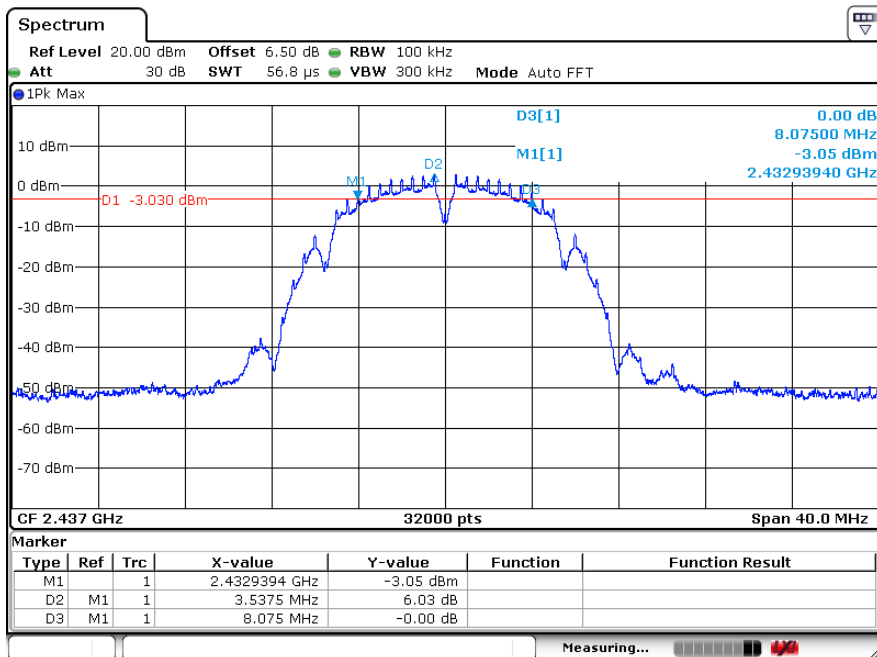
|               |                                            |                     |                    |
|---------------|--------------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                         | Model Name :        | W0202200           |
| Temperature : | 25 °C                                      | Relative Humidity : | 60%                |
| Pressure :    | 1010 hPa                                   | Test Voltage :      | DC 5V from Adapter |
| Test Mode :   | CH01 / CH06 /CH11(802.11b Data rate 1Mbps) |                     |                    |
| Test Date :   | 2020-04-01                                 |                     |                    |

| Frequency | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-----------|---------------------|-------------|--------|
| 2412 MHz  | 8.0788              | $\geq 500$  | Pass   |
| 2437 MHz  | 8.0750              | $\geq 500$  | Pass   |
| 2462 MHz  | 8.0750              | $\geq 500$  | Pass   |

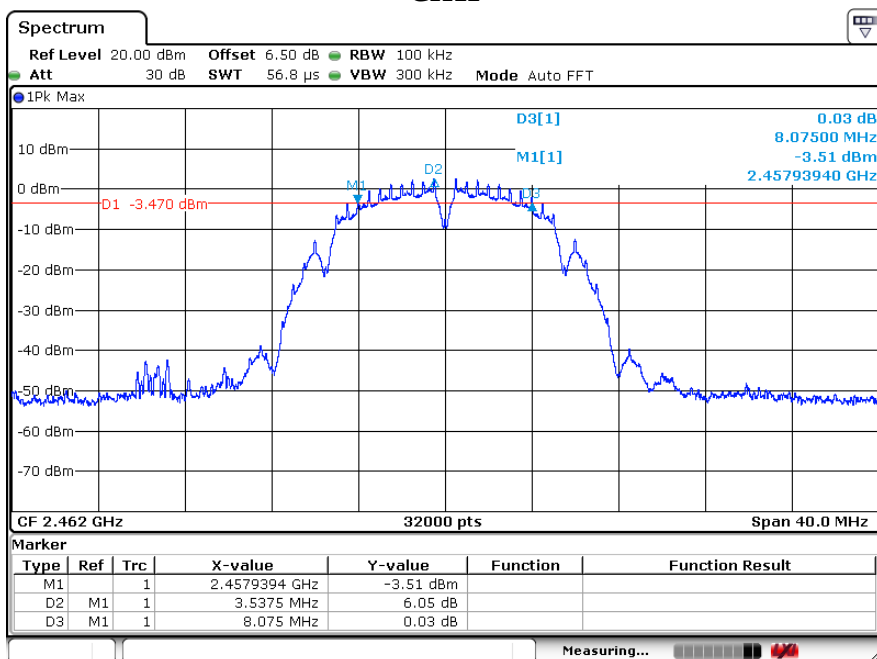
### CH01



## CH06



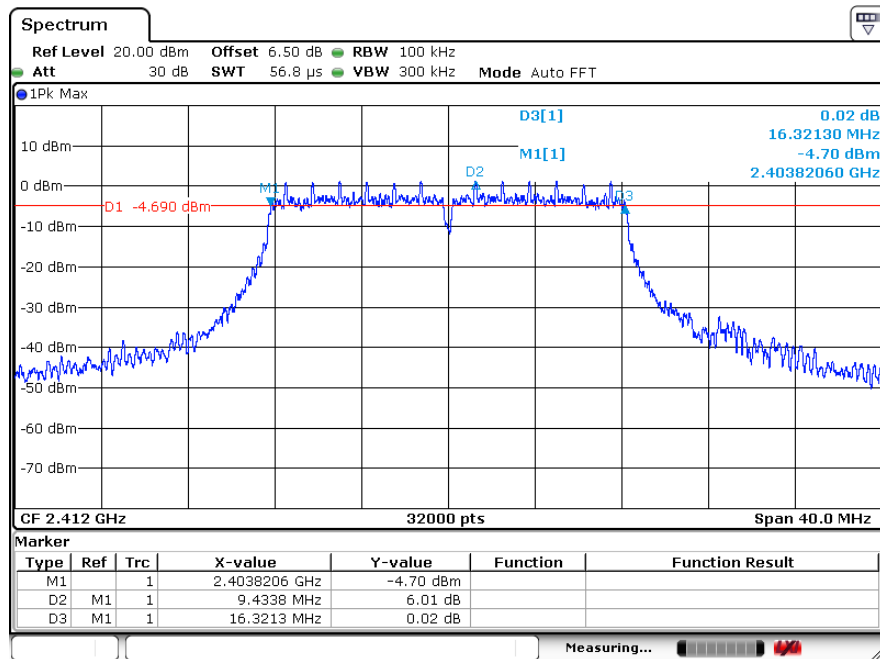
## CH11



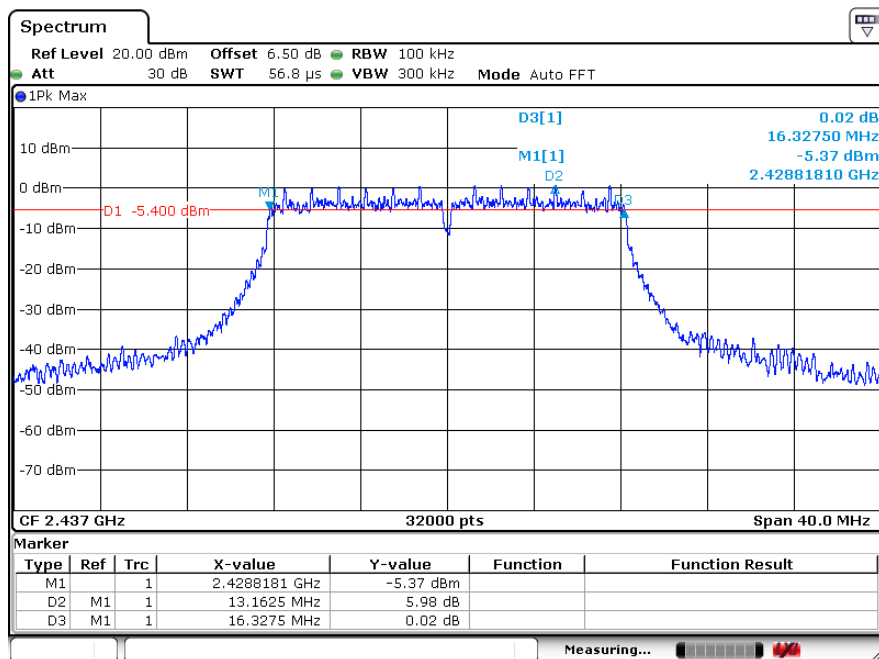
|               |                                             |                     |                    |
|---------------|---------------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                          | Model Name :        | W0202200           |
| Temperature : | 25 °C                                       | Relative Humidity : | 60%                |
| Pressure :    | 1010 hPa                                    | Test Voltage :      | DC 5V from Adapter |
| Test Mode :   | CH01 / CH06 / CH11(802.11g Data rate 6Mbps) |                     |                    |
| Test Date :   | 2020-04-01                                  |                     |                    |

| Frequency | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-----------|---------------------|-------------|--------|
| 2412 MHz  | 16.3213             | $\geq 500$  | Pass   |
| 2437 MHz  | 16.3275             | $\geq 500$  | Pass   |
| 2462 MHz  | 16.3200             | $\geq 500$  | Pass   |

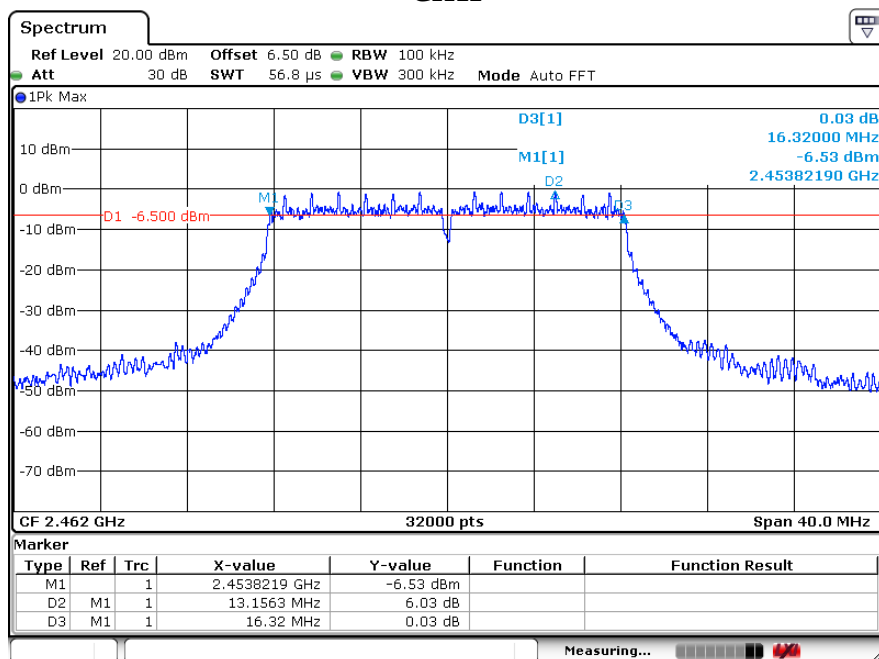
## CH01



## CH06



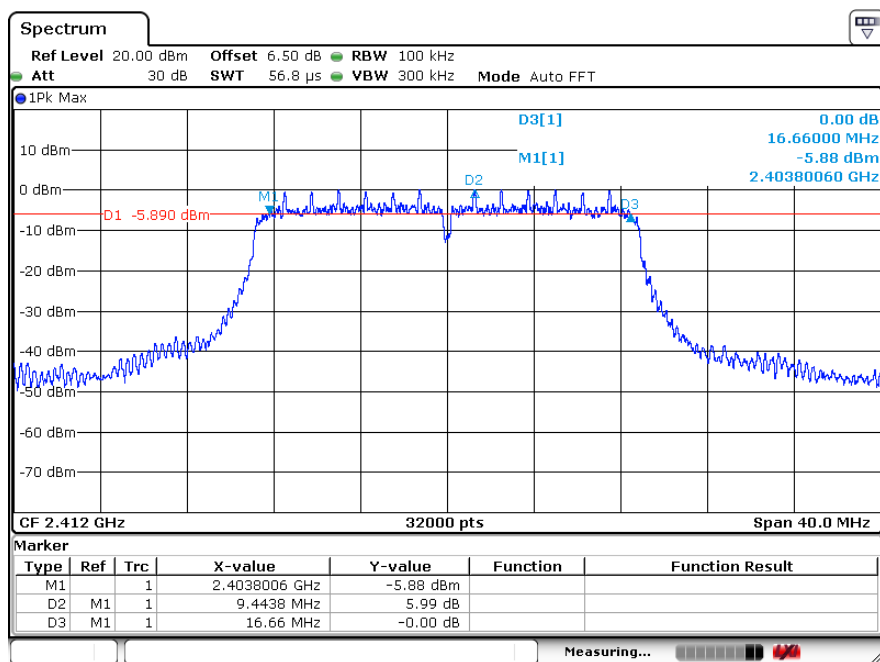
## CH11



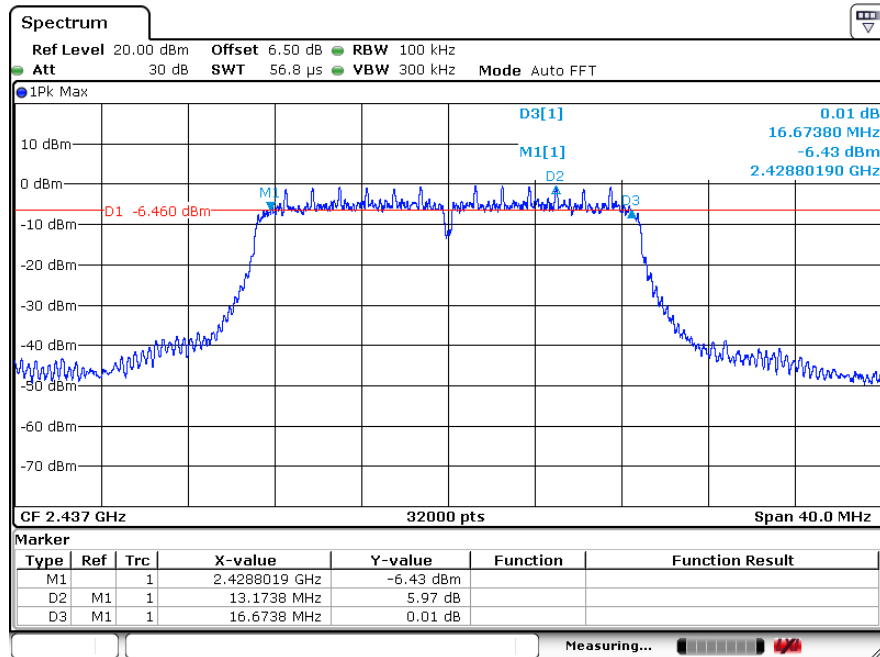
|               |                                                |                     |                    |
|---------------|------------------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                             | Model Name :        | W0202200           |
| Temperature : | 25 °C                                          | Relative Humidity : | 60%                |
| Pressure :    | 1010 hPa                                       | Test Voltage :      | DC 5V from Adapter |
| Test Mode :   | CH01 / CH06/ CH11(802.11n20 Data rate 6.5Mbps) |                     |                    |
| Test Date :   | 2020-04-01                                     |                     |                    |

| Frequency | 6dB Bandwidth (MHz) | Limit (kHz) | Result |
|-----------|---------------------|-------------|--------|
| 2412 MHz  | 16.6600             | $\geq 500$  | Pass   |
| 2437 MHz  | 16.6738             | $\geq 500$  | Pass   |
| 2462 MHz  | 16.6750             | $\geq 500$  | Pass   |

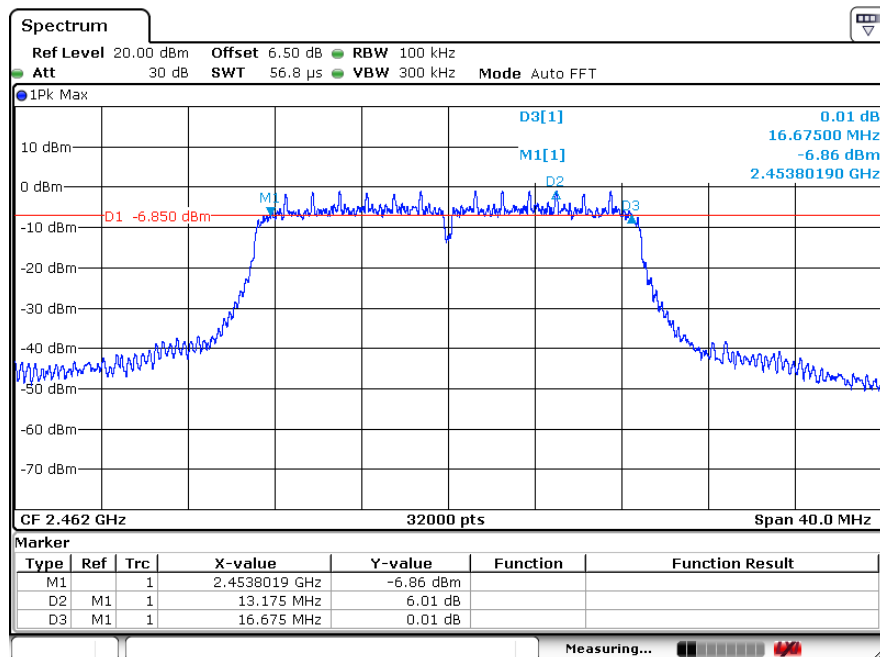
## CH01



## CH06



## CH11



## 5. POWER DENSITY

### 5.1 APPLIED PROCEDURES / LIMIT

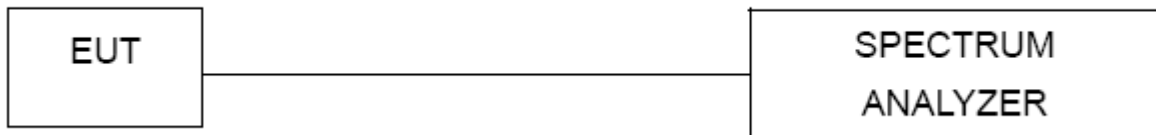
| LP0002        |               |       |                       |        |
|---------------|---------------|-------|-----------------------|--------|
| Section       | Test Item     | Limit | Frequency Range (MHz) | Result |
| 3.10.1(6.2.2) | Power density | 8dBm  | 2400-2483.5           | PASS   |

| Spectrum Parameters | Setting                     |
|---------------------|-----------------------------|
| Attenuation         | Auto                        |
| Span Frequency      | > Operating Frequency Range |
| RB                  | 3 kHz                       |
| VB                  | 10 kHz                      |
| Detector            | Peak                        |
| Trace               | Max Hold                    |
| Sweep Time          | Auto                        |

#### 5.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 3kHz, VBW=10kHz, Sweep time = 100S, Span=300kHz.

#### 5.1.2 TEST SETUP



#### 5.1.3 EUT OPERATION CONDITIONS

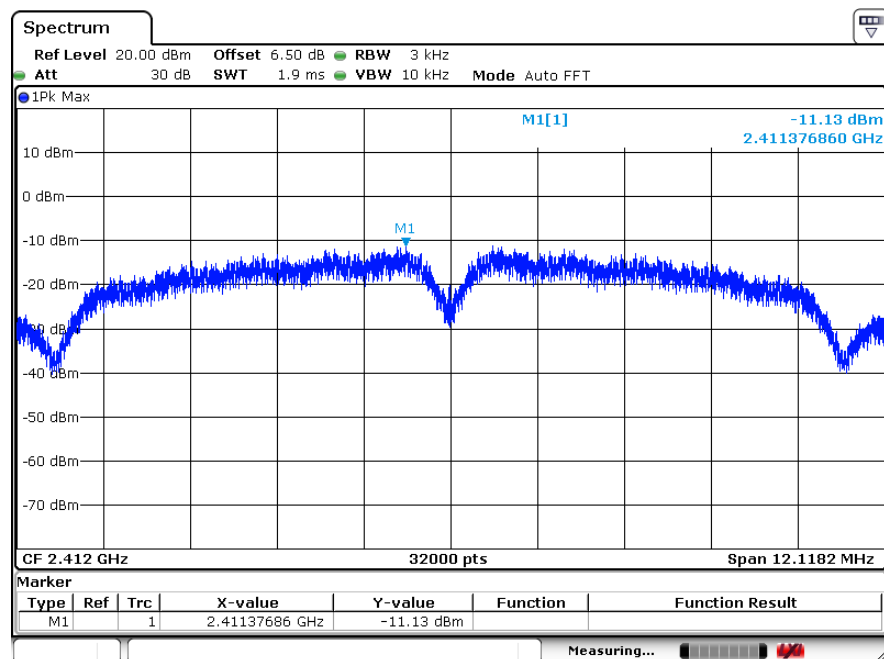
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

## 5.1.4 TEST RESULTS

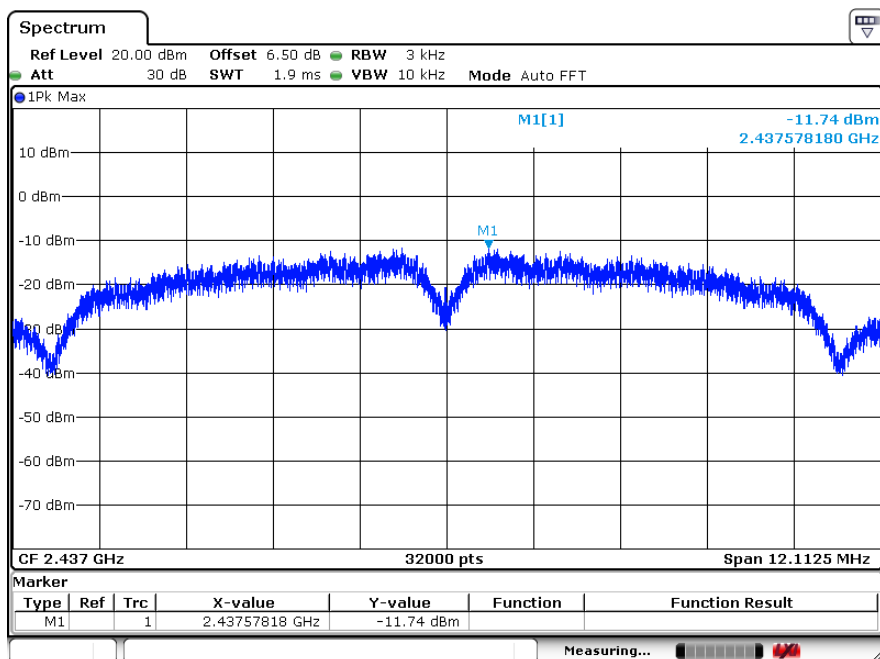
|               |                                             |                     |                    |
|---------------|---------------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                          | Model Name :        | W0202200           |
| Temperature : | 25 °C                                       | Relative Humidity : | 60%                |
| Pressure :    | 1010 hPa                                    | Test Voltage :      | DC 5V from Adapter |
| Test Mode :   | CH01 /CH06 /CH11 (802.11b Data rate 1Mbps ) |                     |                    |
| Test Date :   | 2020-04-01                                  |                     |                    |

| Test Channel | Frequency (MHz) | Power Density (dBm) | LIMIT (dBm) |
|--------------|-----------------|---------------------|-------------|
| CH01         | 2412 MHz        | -11.13              | 8           |
| CH06         | 2437 MHz        | -11.74              | 8           |
| CH11         | 2462 MHz        | -12.01              | 8           |

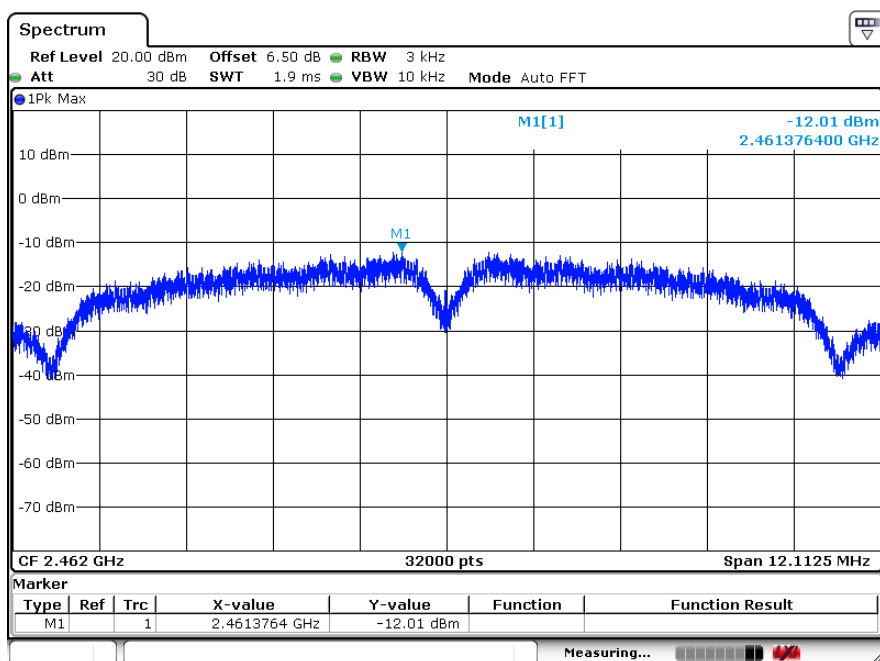
### CH01



## CH06



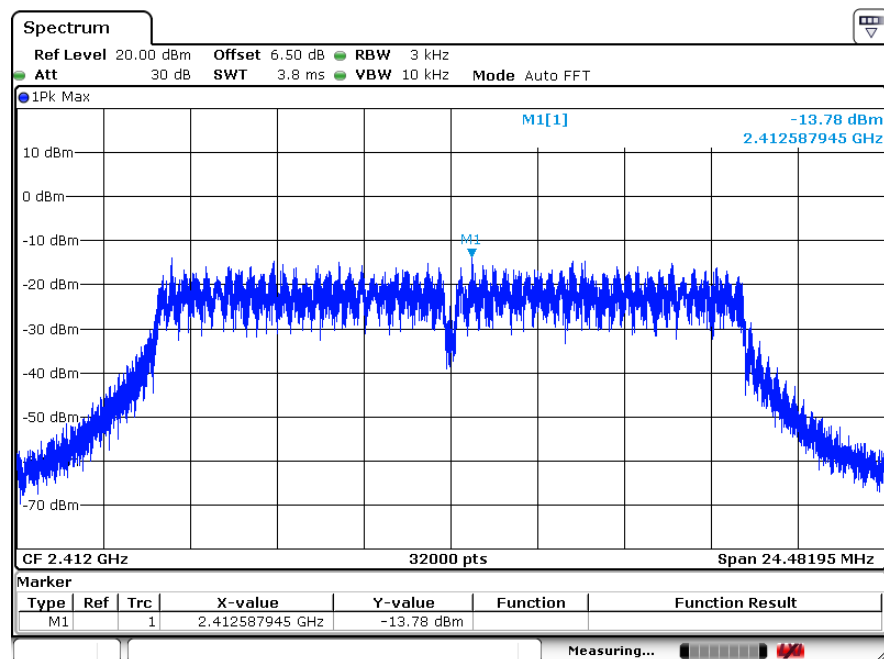
## CH11



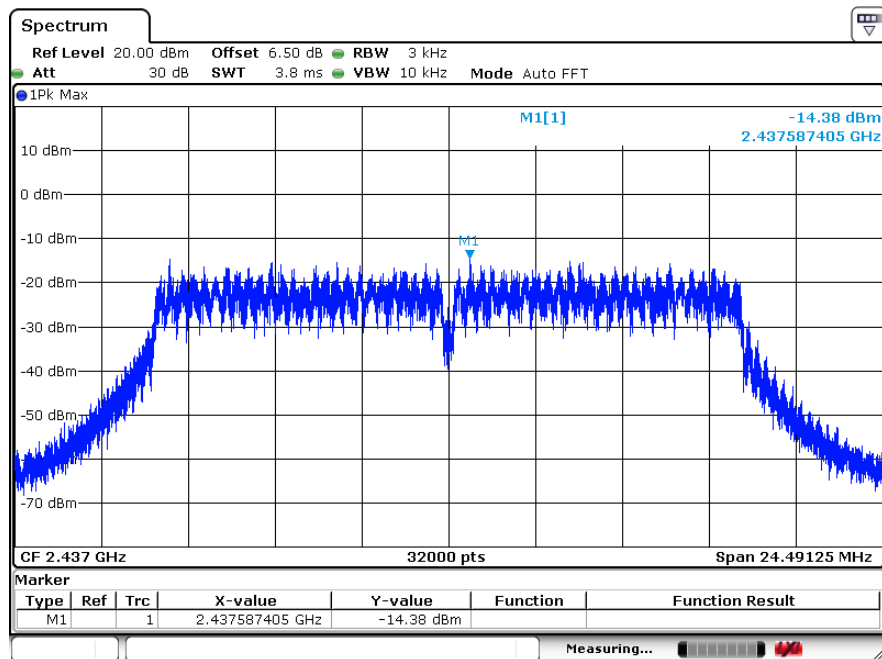
|               |                                            |                     |                    |
|---------------|--------------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                         | Model Name :        | W0202200           |
| Temperature : | 25 °C                                      | Relative Humidity : | 60%                |
| Pressure :    | 1010 hPa                                   | Test Voltage :      | DC 5V from Adapter |
| Test Mode :   | CH01 / CH06/CH11 (802.11g Data rate 6Mbps) |                     |                    |
| Test Date :   | 2020-04-01                                 |                     |                    |

| Test Channel | Frequency (MHz) | Power Density (dBm) | LIMIT (dBm) |
|--------------|-----------------|---------------------|-------------|
| CH01         | 2412 MHz        | -13.78              | 8           |
| CH06         | 2437 MHz        | -14.38              | 8           |
| CH11         | 2462 MHz        | -14.79              | 8           |

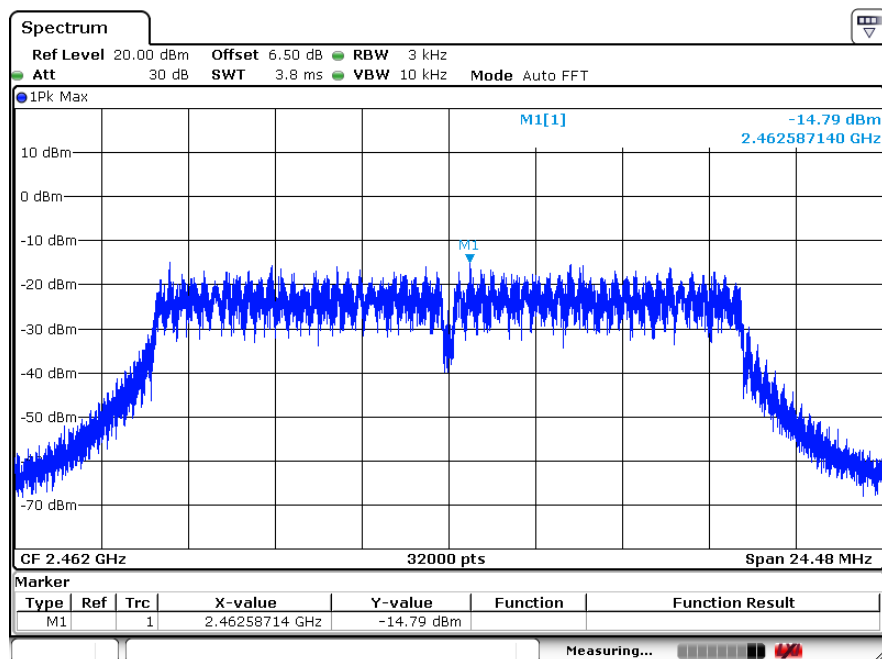
## CH01



## CH06



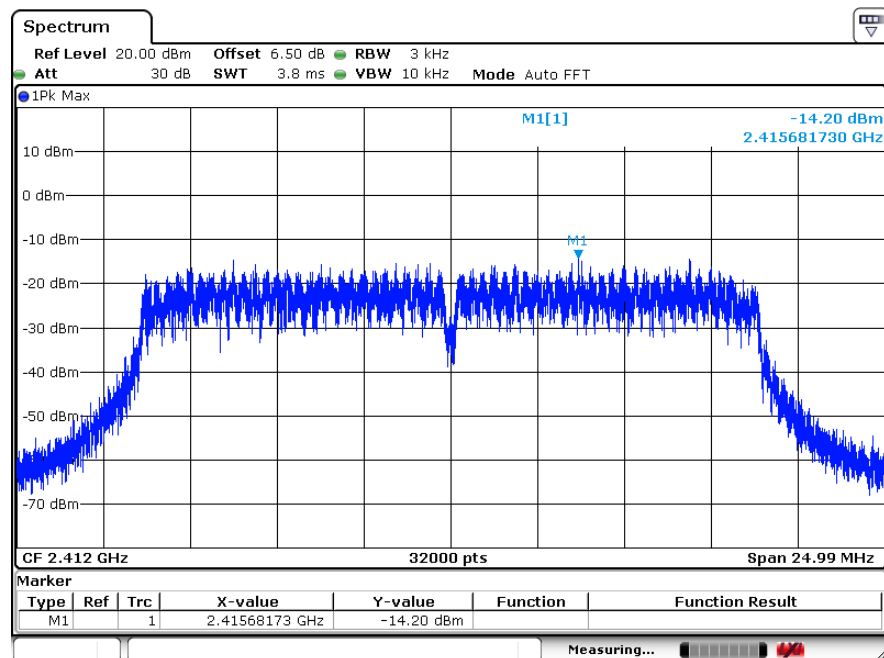
## CH11



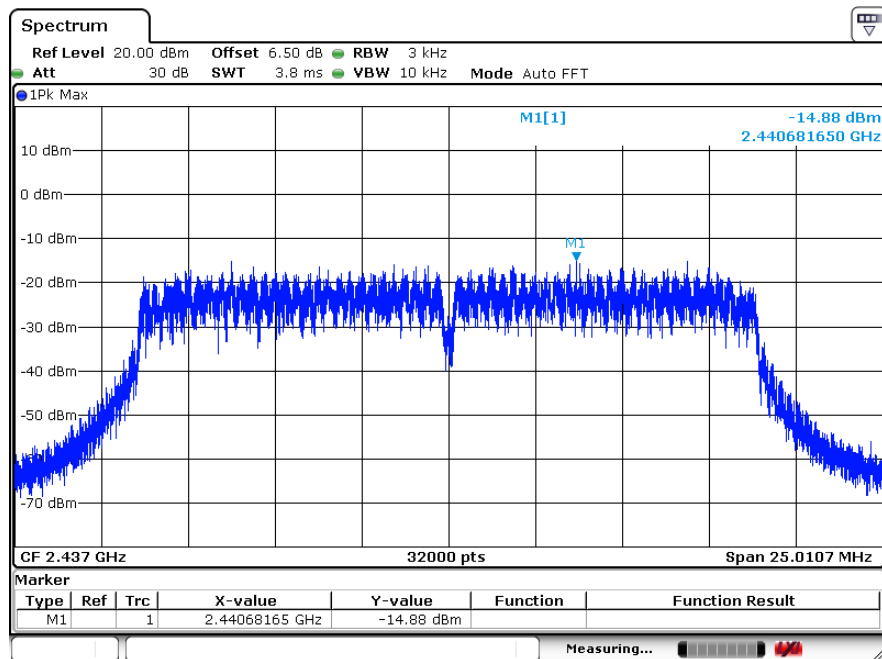
|               |                                                 |                     |                    |
|---------------|-------------------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                              | Model Name :        | W0202200           |
| Temperature : | 25 °C                                           | Relative Humidity : | 60%                |
| Pressure :    | 1010 hPa                                        | Test Voltage :      | DC 5V from Adapter |
| Test Mode :   | CH01 / CH06/ CH11 (802.11n20 Data rate 6.5Mbps) |                     |                    |
| Test Date :   | 2020-04-01                                      |                     |                    |

| Test Channel | Frequency (MHz) | Power Density (dBm) | LIMIT (dBm) |
|--------------|-----------------|---------------------|-------------|
| CH01         | 2412 MHz        | -14.20              | 8           |
| CH06         | 2437 MHz        | -14.88              | 8           |
| CH11         | 2462 MHz        | -15.32              | 8           |

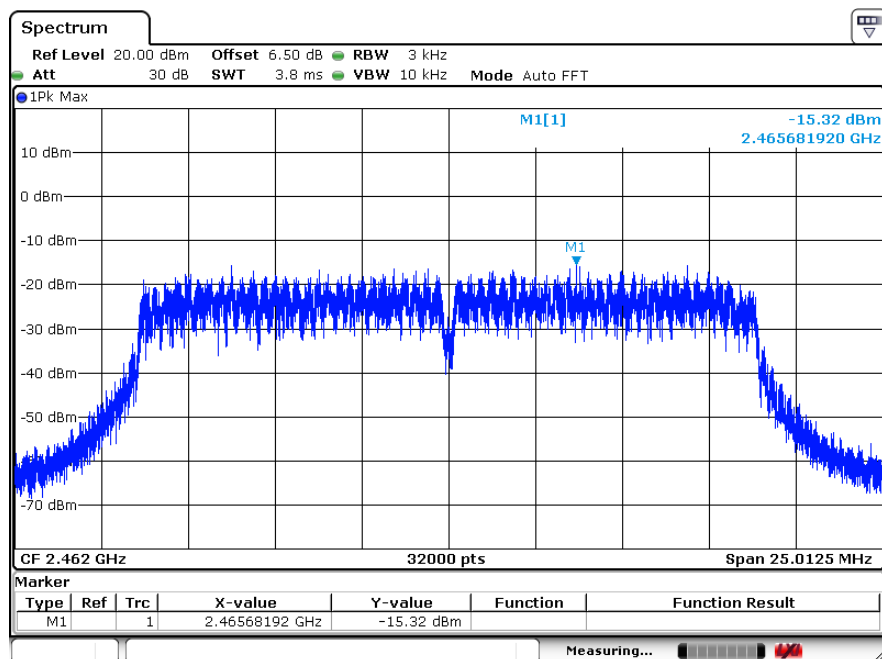
## CH01



## CH06



## CH11



## 6. PEAK OUTPUT POWER TEST

### 6.1 APPLIED PROCEDURES / LIMIT

| LP0002    |                   |                 |                       |        |
|-----------|-------------------|-----------------|-----------------------|--------|
| Section   | Test Item         | Limit           | Frequency Range (MHz) | Result |
| 3.10.1(2) | Peak Output Power | 1 watt or 30dBm | 2400-2483.5           | PASS   |

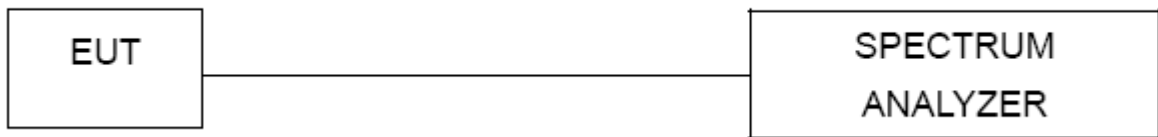
#### 6.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 1MHz, VBW= 3MHz, Sweep time = Auto.

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP



#### 6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 6.1.5 TEST RESULTS

|               |                                            |                     |                    |
|---------------|--------------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                         | Model Name :        | W0202200           |
| Temperature : | 25 °C                                      | Relative Humidity : | 60%                |
| Pressure :    | 1010 hPa                                   | Test Voltage :      | DC 5V from Adapter |
| Test Mode :   | CH01/ CH06 /CH11 (802.11b Data rate 1Mbps) |                     |                    |
| Test Date :   | 2020-04-01                                 |                     |                    |

| Test Channel | Frequency (MHz) | Peak Output Power (dBm) | LIMIT (dBm) | LIMIT (W) |
|--------------|-----------------|-------------------------|-------------|-----------|
| CH01         | 2412 MHz        | 15.97                   | 30          | 1         |
| CH06         | 2437MHz         | 15.20                   | 30          | 1         |
| CH11         | 2462 MHz        | 15.20                   | 30          | 1         |

|               |                                            |                     |                    |
|---------------|--------------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                         | Model Name :        | W0202200           |
| Temperature : | 25 °C                                      | Relative Humidity : | 60%                |
| Pressure :    | 1010 hPa                                   | Test Voltage :      | DC 5V from Adapter |
| Test Mode :   | CH01/ CH06 /CH11 (802.11g Data rate 6Mbps) |                     |                    |
| Test Date :   | 2020-04-01                                 |                     |                    |

| Test Channel | Frequency (MHz) | Peak Output Power (dBm) | LIMIT (dBm) | LIMIT (W) |
|--------------|-----------------|-------------------------|-------------|-----------|
| CH01         | 2412 MHz        | 18.29                   | 30          | 1         |
| CH06         | 2437MHz         | 17.70                   | 30          | 1         |
| CH11         | 2462 MHz        | 17.33                   | 30          | 1         |

|               |                                                |                     |                    |
|---------------|------------------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                             | Model Name :        | W0202200           |
| Temperature : | 25 °C                                          | Relative Humidity : | 60%                |
| Pressure :    | 1010 hPa                                       | Test Voltage :      | DC 5V from Adapter |
| Test Mode :   | CH01/ CH06 /CH11 (802.11n20 Data rate 6.5Mbps) |                     |                    |
| Test Date :   | 2020-04-01                                     |                     |                    |

| Test Channel | Frequency (MHz) | Peak Output Power (dBm) | LIMIT (dBm) | LIMIT (W) |
|--------------|-----------------|-------------------------|-------------|-----------|
| CH01         | 2412 MHz        | 18.44                   | 30          | 1         |
| CH06         | 2437MHz         | 17.51                   | 30          | 1         |
| CH11         | 2462 MHz        | 17.08                   | 30          | 1         |

## 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the modulation products of the spreading sequence, the information sequence and the carrier frequency 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 or shall not exceed the general levels specified in Section 2.8.

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009~0.490       | 2400/F(kHz)                       | 300                           |
| 0.490~1.705       | 24000/F(kHz)                      | 30                            |
| 1.705~30.0        | 30                                | 30                            |
| 30~88             | 100                               | 3                             |
| 88~216            | 150                               | 3                             |
| 216~960           | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

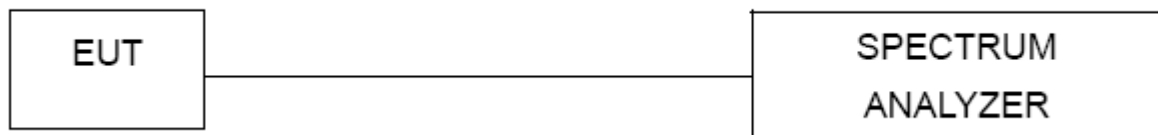
The following table is the setting of the spectrum analyzer.

| Spectrum Parameter                    | Setting                                        |
|---------------------------------------|------------------------------------------------|
| Attenuation                           | Auto                                           |
| Span Frequency                        | 100 MHz                                        |
| RB / VB (emission in restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average |
| RB / VB (other emission)              | 100 kHz /100 kHz for Peak                      |

#### 7.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100kHz, VBW=100kHz, Sweep time = Auto.

#### 7.1.2 TEST SETUP



#### 7.1.3 EUT OPERATION CONDITIONS

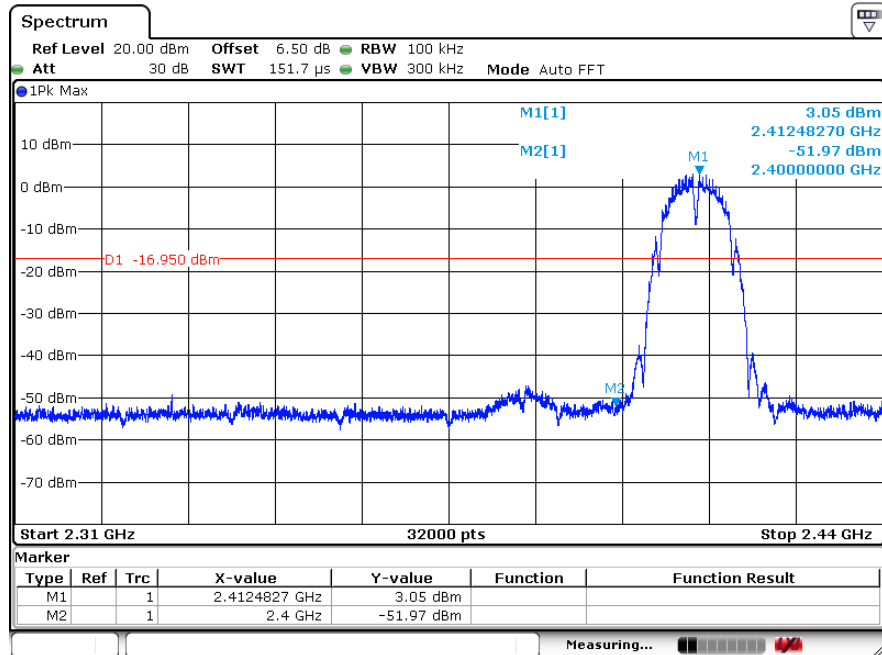
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 7.1.4 TEST RESULTS

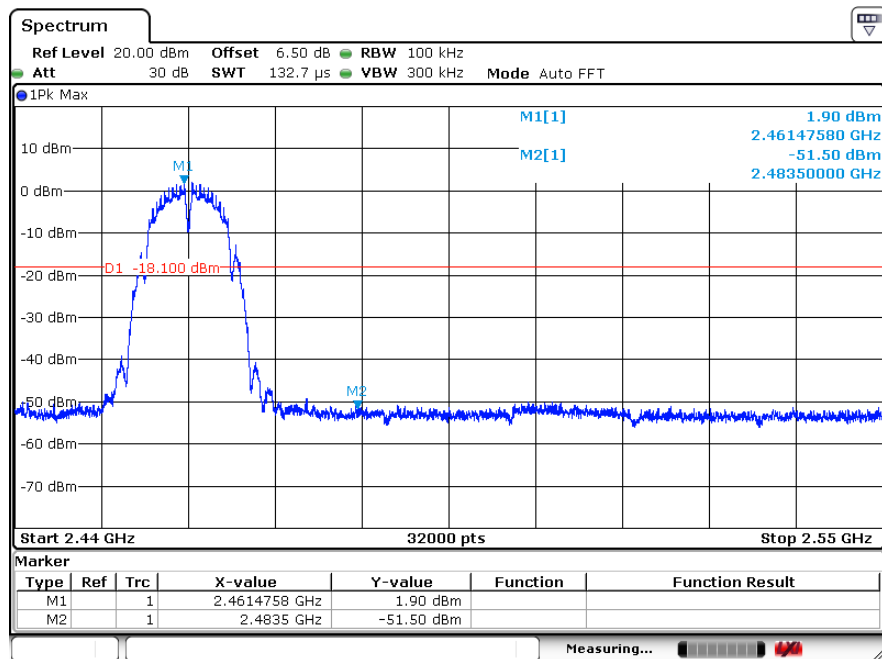
|               |                                      |                     |                    |
|---------------|--------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                   | Model Name :        | W0202200           |
| Temperature : | 25 °C                                | Relative Humidity : | 60%                |
| Pressure :    | 1010 hPa                             | Test Voltage :      | DC 5V from Adapter |
| Test Mode :   | CH01/ CH11 (802.11b Data rate 1Mbps) |                     |                    |
| Test Date :   | 2020-04-01                           |                     |                    |

|                                                                                                                                                                                                         |                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| in any 100kHz bandwidth outside the low frequency band                                                                                                                                                  | in any 100 kHz bandwidth outside the high frequency band |
| Pass                                                                                                                                                                                                    | Pass                                                     |
| Result                                                                                                                                                                                                  |                                                          |
| In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. |                                                          |

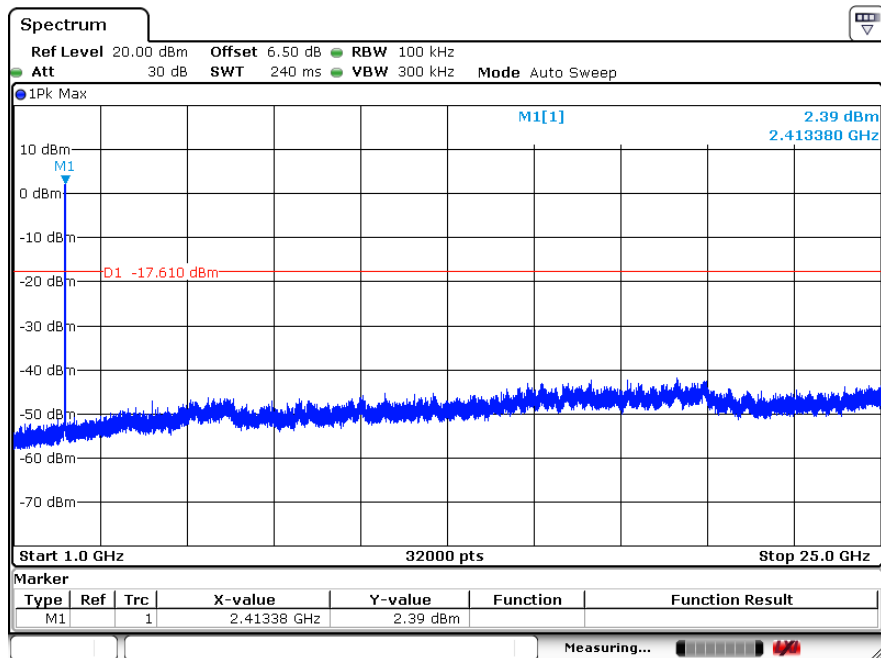
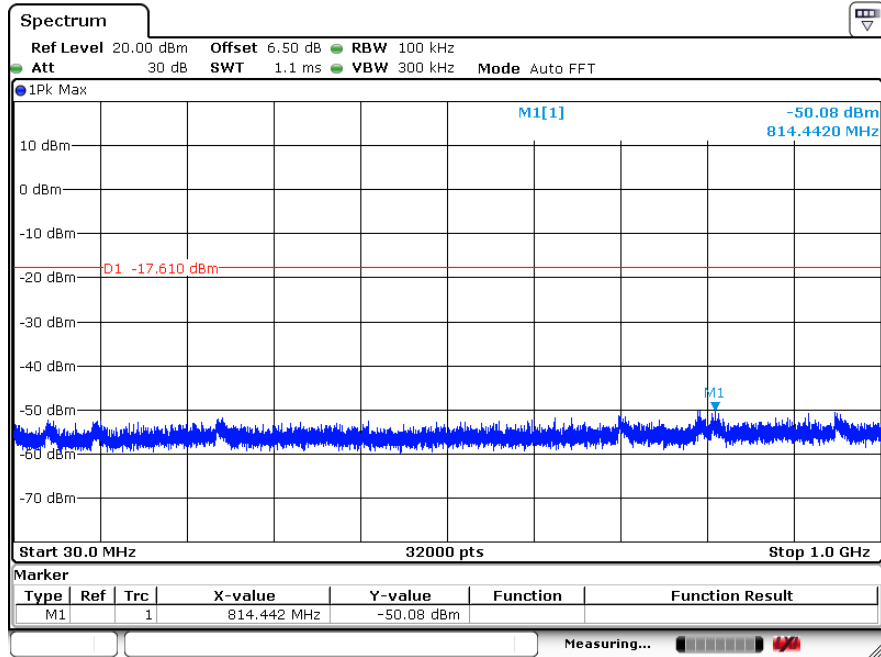
## CH01 (Lower)



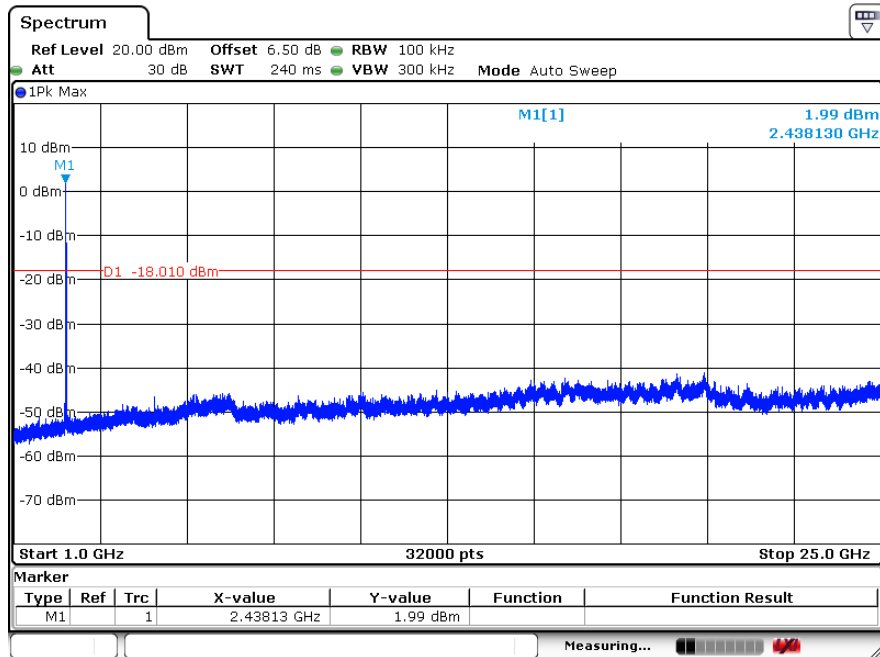
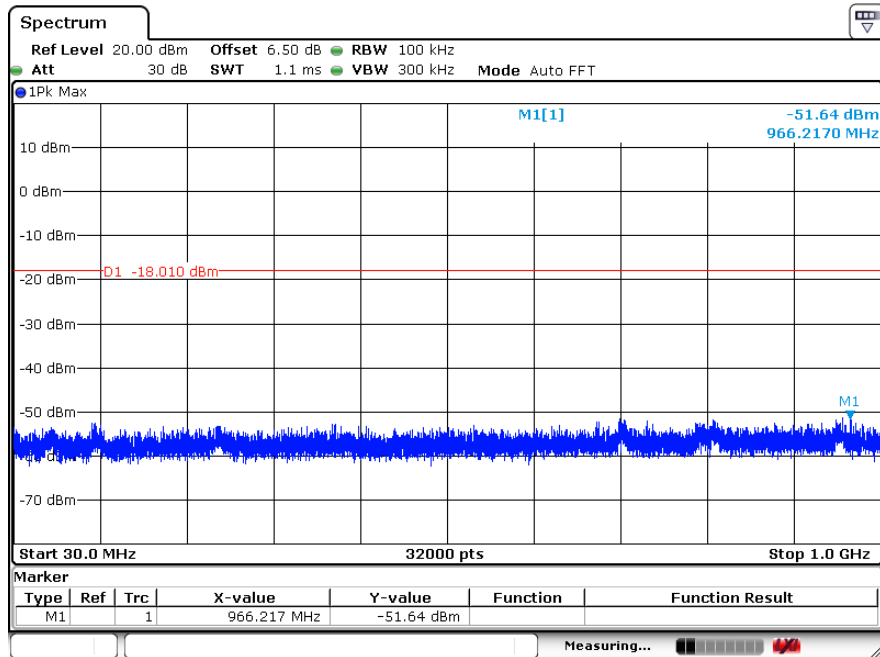
## CH 11(Upper)



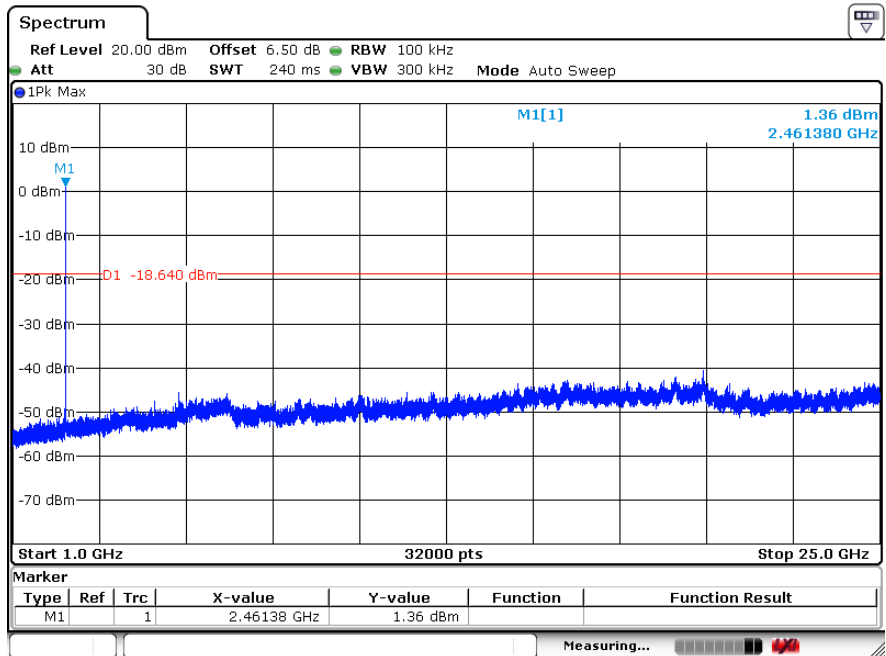
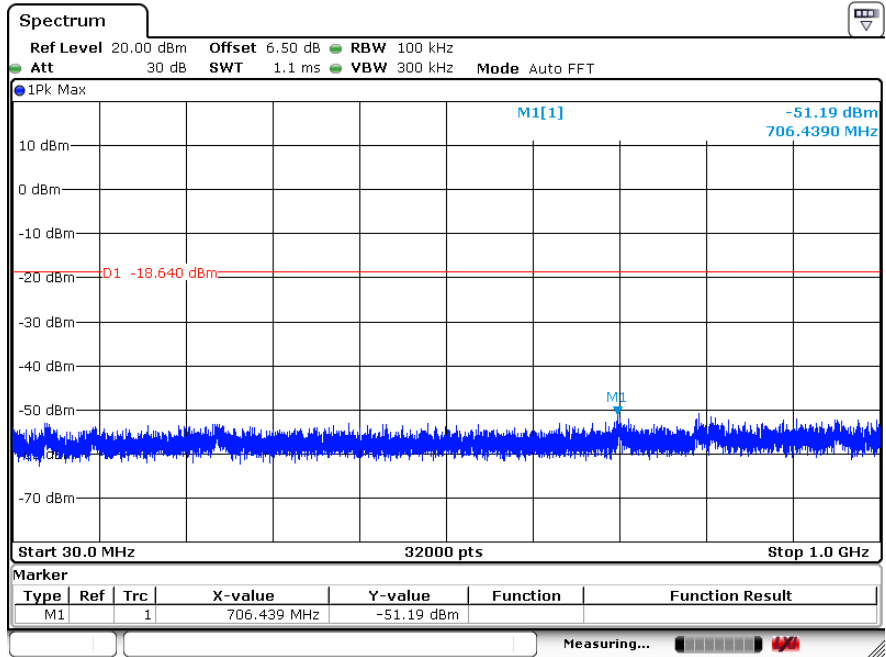
## CH01



## CH06



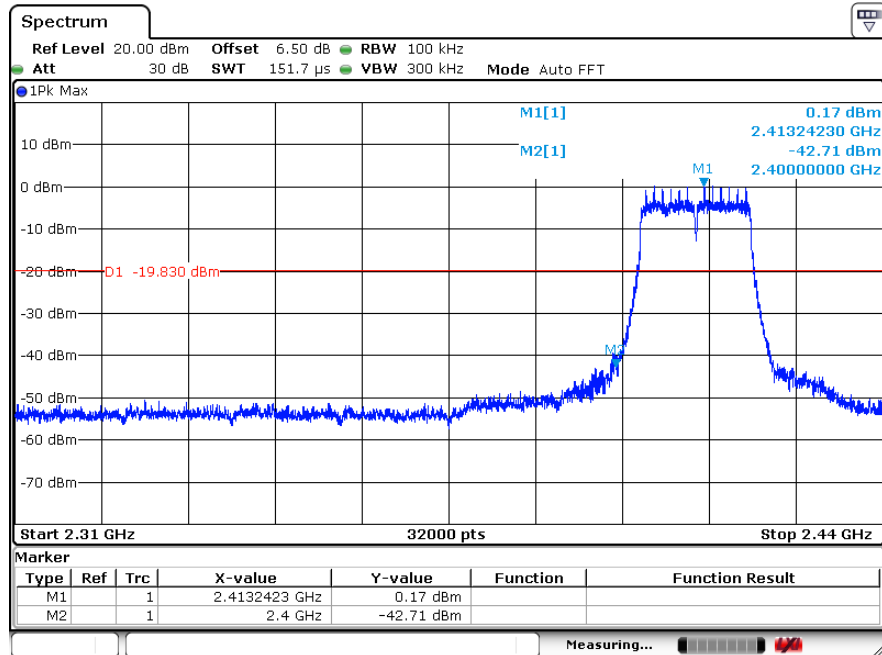
## CH11



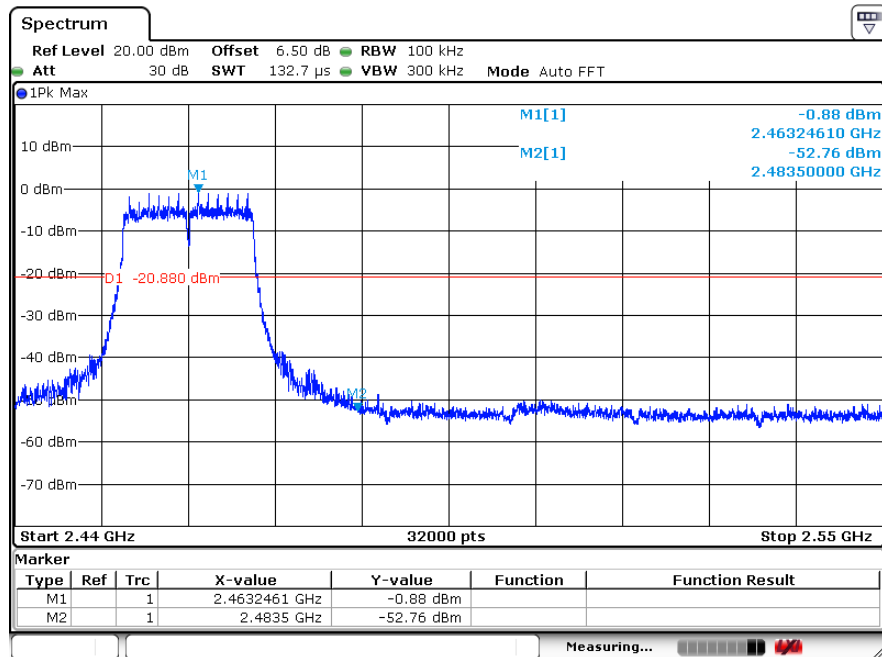
|               |                                      |                     |                    |
|---------------|--------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                   | Model Name :        | W0202200           |
| Temperature : | 25 °C                                | Relative Humidity : | 60%                |
| Pressure :    | 1010 hPa                             | Test Voltage :      | DC 5V from Adapter |
| Test Mode :   | CH01/ CH11 (802.11g Data rate 6Mbps) |                     |                    |
| Test Date :   | 2020-04-01                           |                     |                    |

|                                                                                                                                                                                                         |                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| in any 100kHz bandwidth outside the low frequency band                                                                                                                                                  | in any 100 kHz bandwidth outside the high frequency band |
| Pass                                                                                                                                                                                                    | Pass                                                     |
| Result                                                                                                                                                                                                  |                                                          |
| In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. |                                                          |

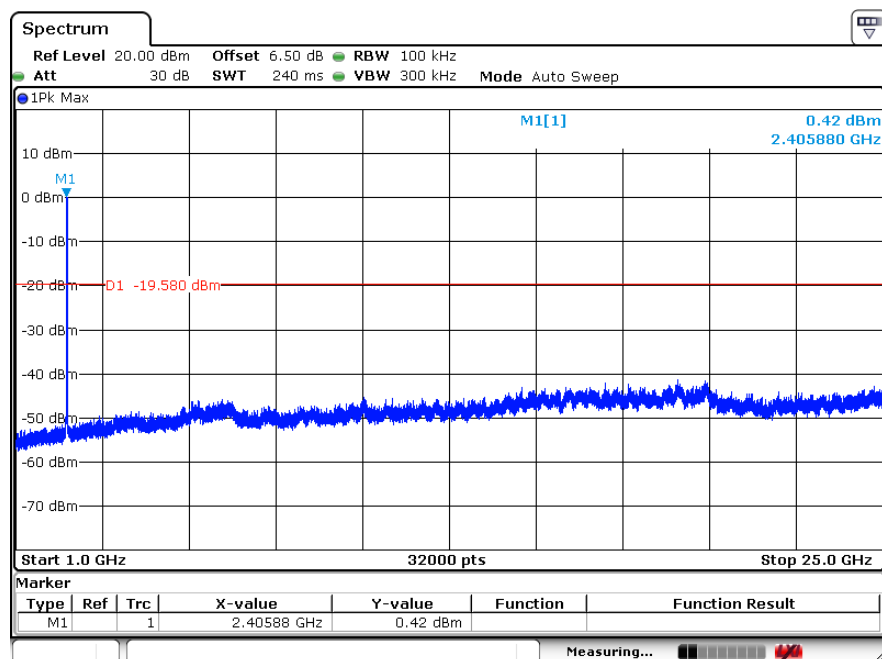
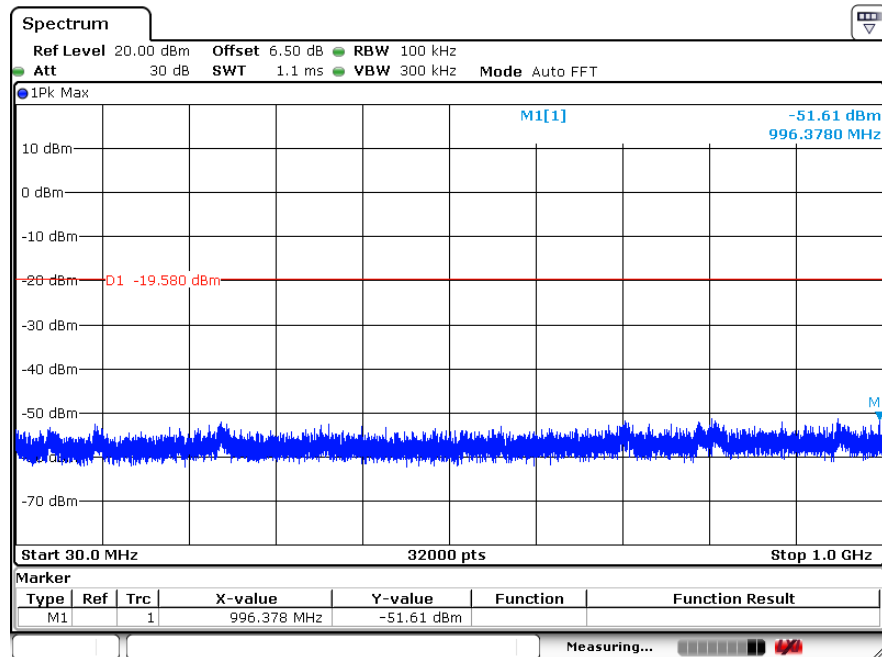
## CH01 (Lower)



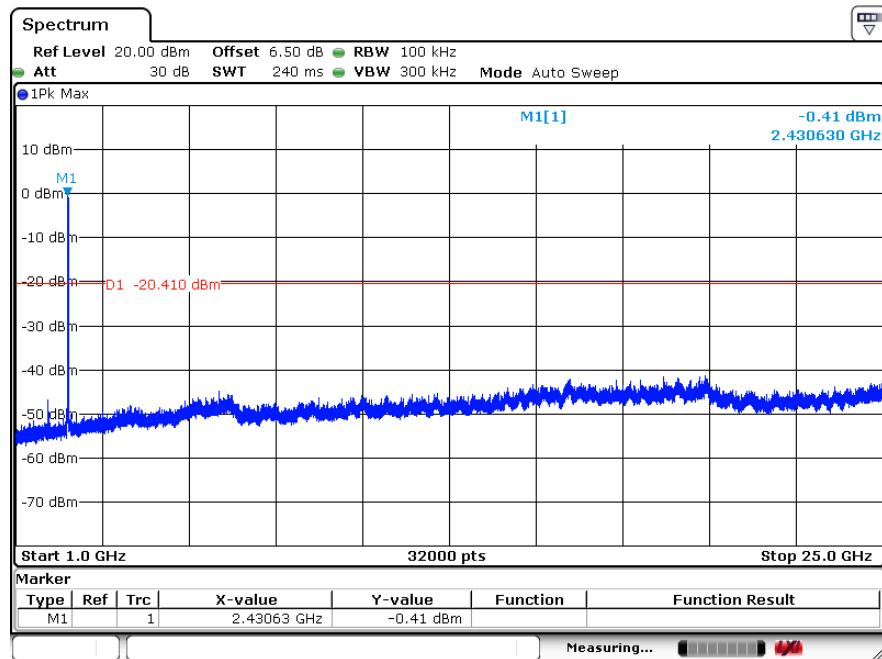
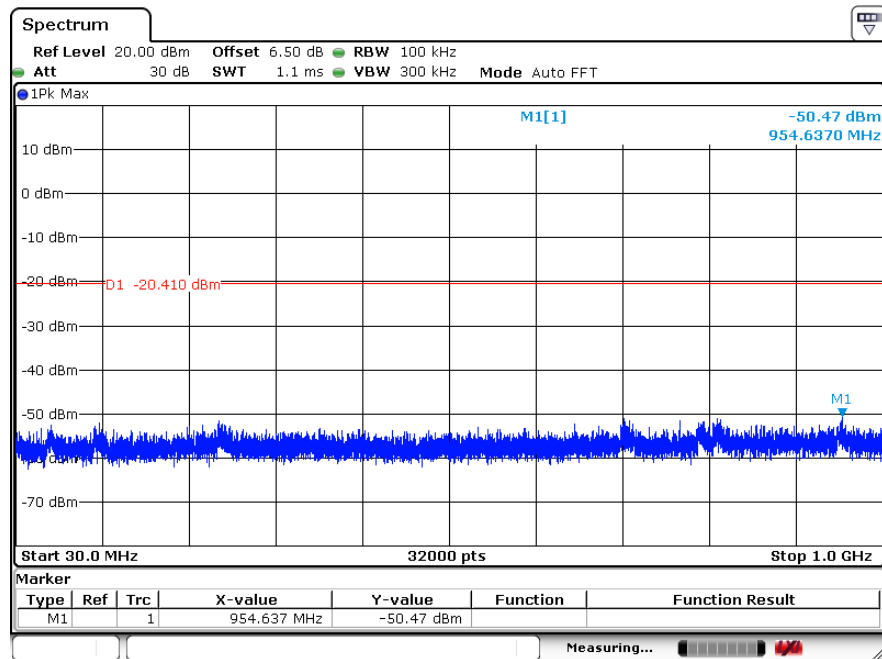
## CH 11(Upper)



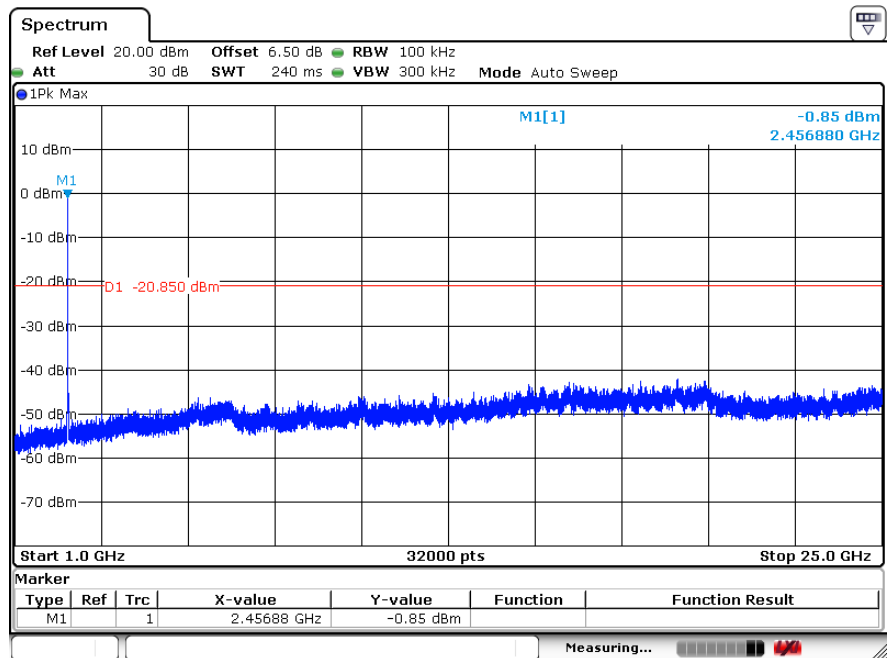
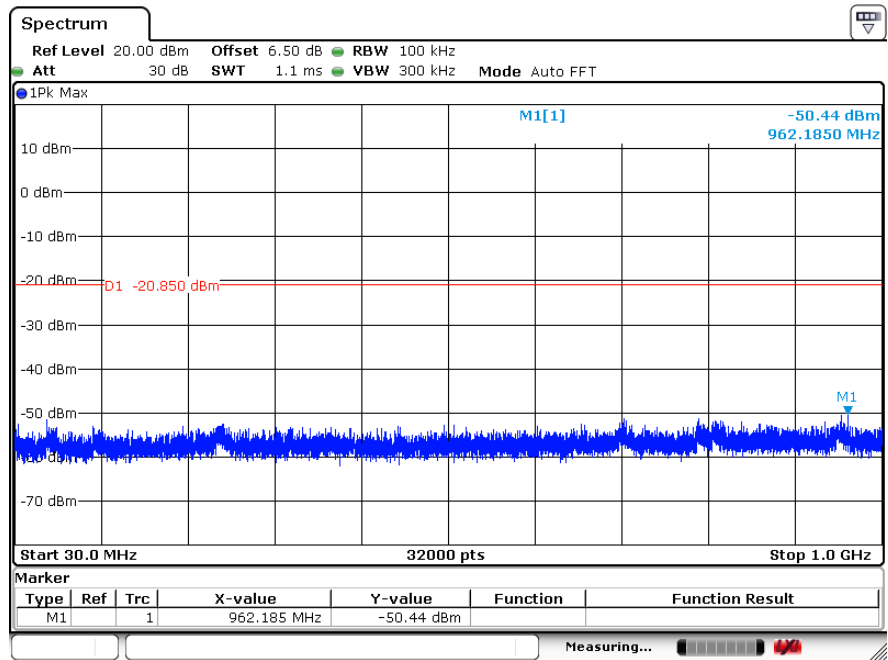
## CH01



## CH06



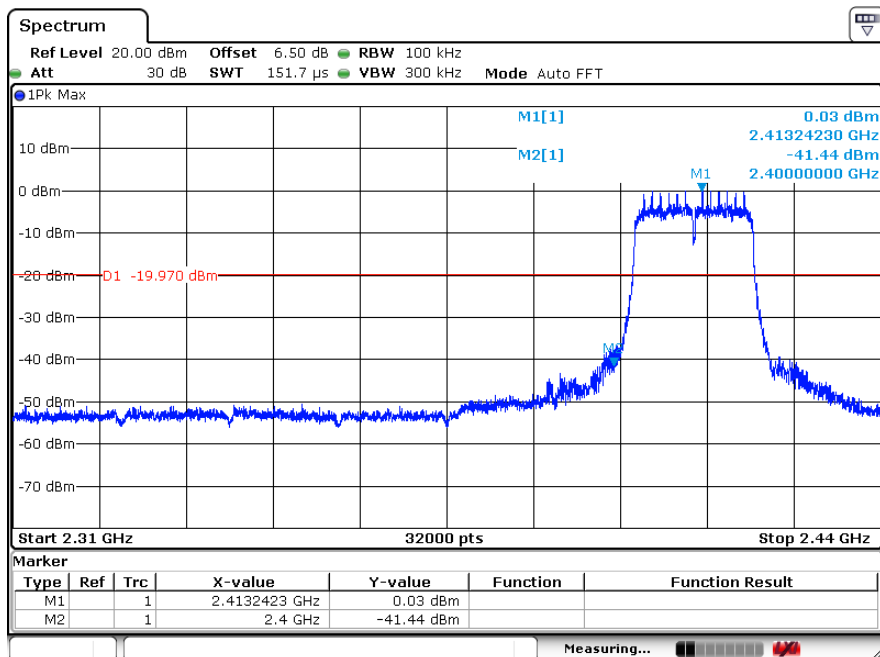
## CH11



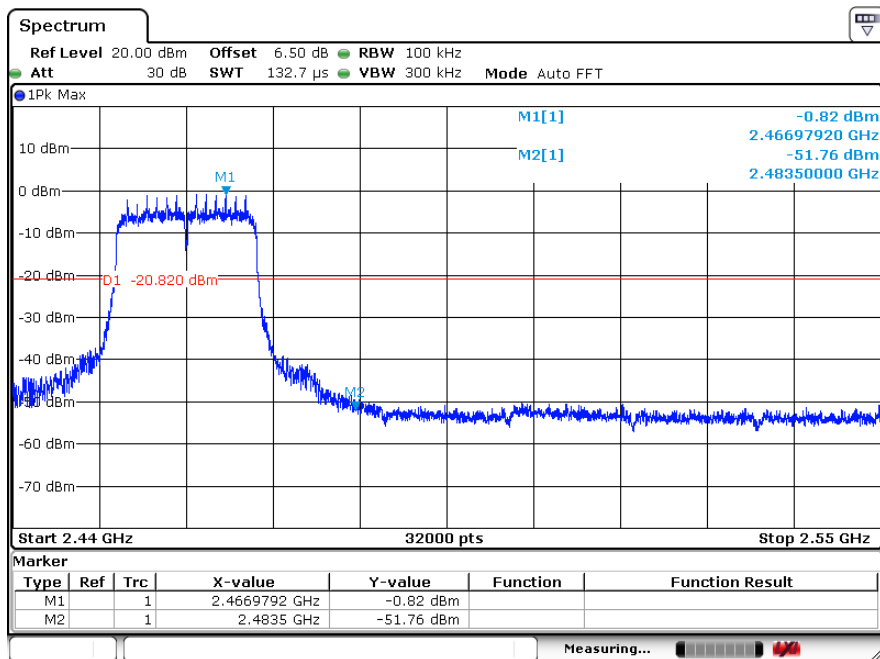
|               |                                          |                     |                    |
|---------------|------------------------------------------|---------------------|--------------------|
| EUT :         | SwitchBot Hub Mini                       | Model Name :        | W0202200           |
| Temperature : | 25 °C                                    | Relative Humidity : | 60%                |
| Pressure :    | 1010 hPa                                 | Test Voltage :      | DC 5V from Adapter |
| Test Mode :   | CH01/ CH11 (802.11n20 Data rate 6.5Mbps) |                     |                    |
| Test Date :   | 2020-04-01                               |                     |                    |

|                                                                                                                                                                                                         |                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| in any 100kHz bandwidth outside the low frequency band                                                                                                                                                  | in any 100 kHz bandwidth outside the high frequency band |
| Pass                                                                                                                                                                                                    | Pass                                                     |
| Result                                                                                                                                                                                                  |                                                          |
| In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. |                                                          |

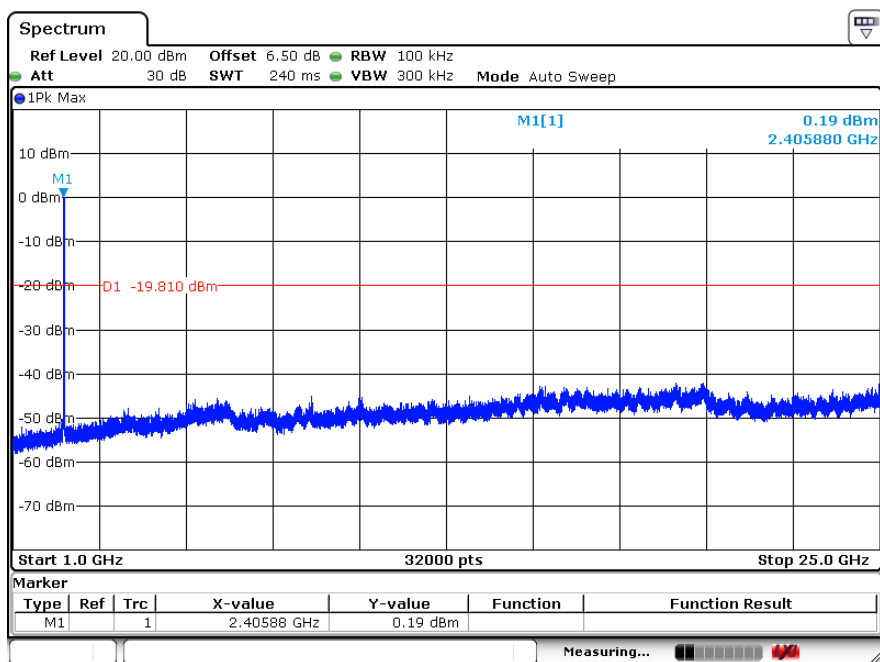
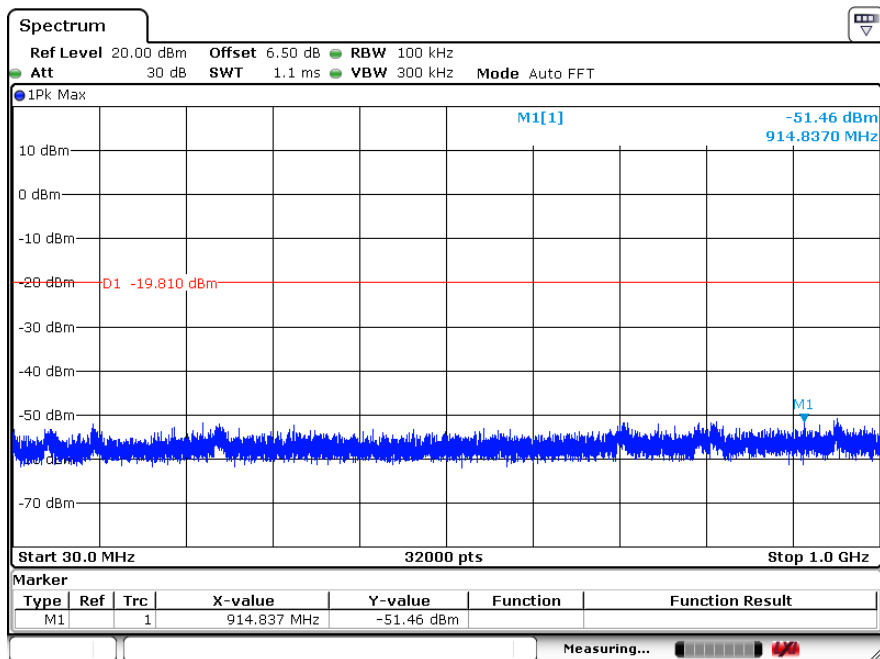
## CH01 (Lower)



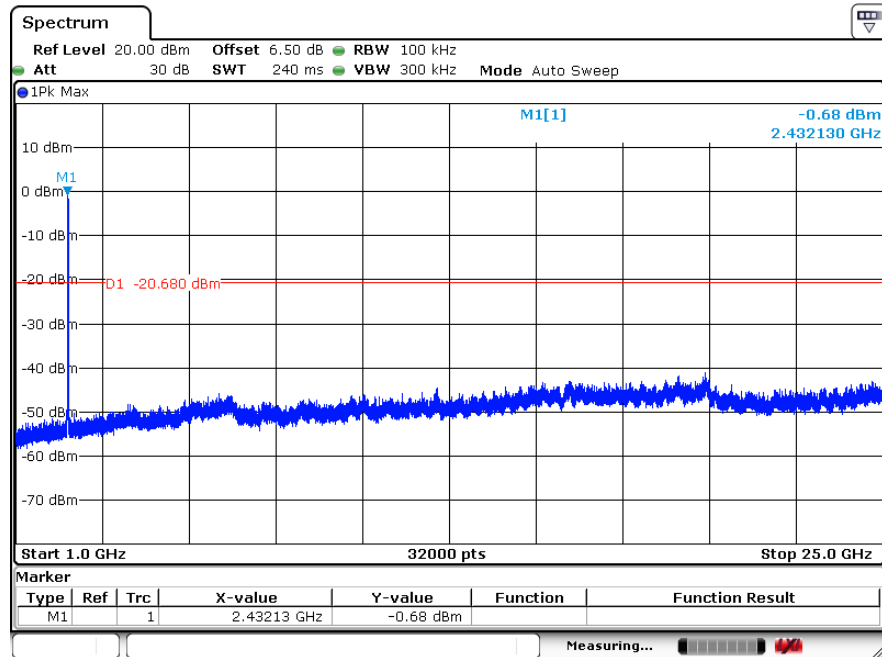
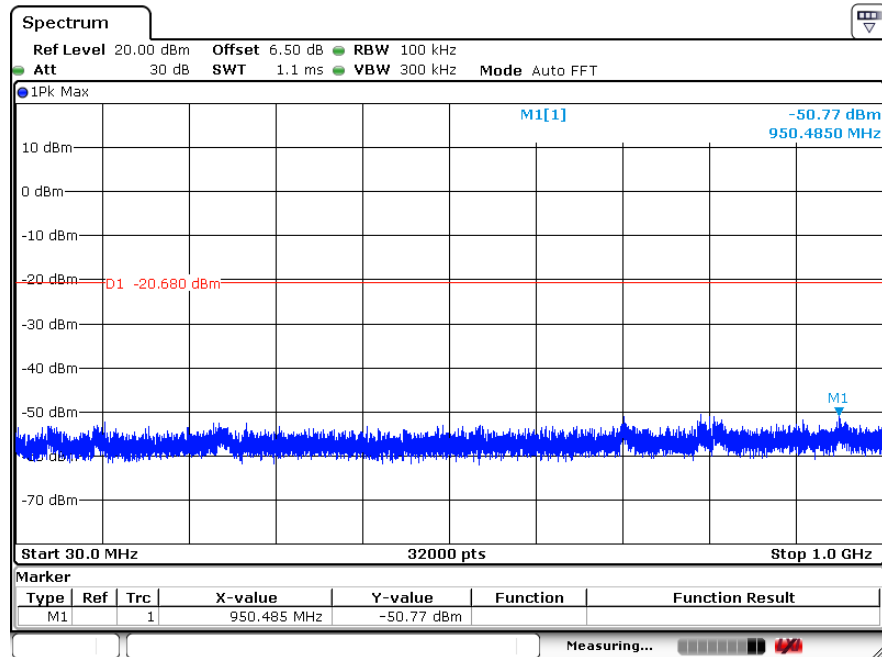
## CH 11(Upper)



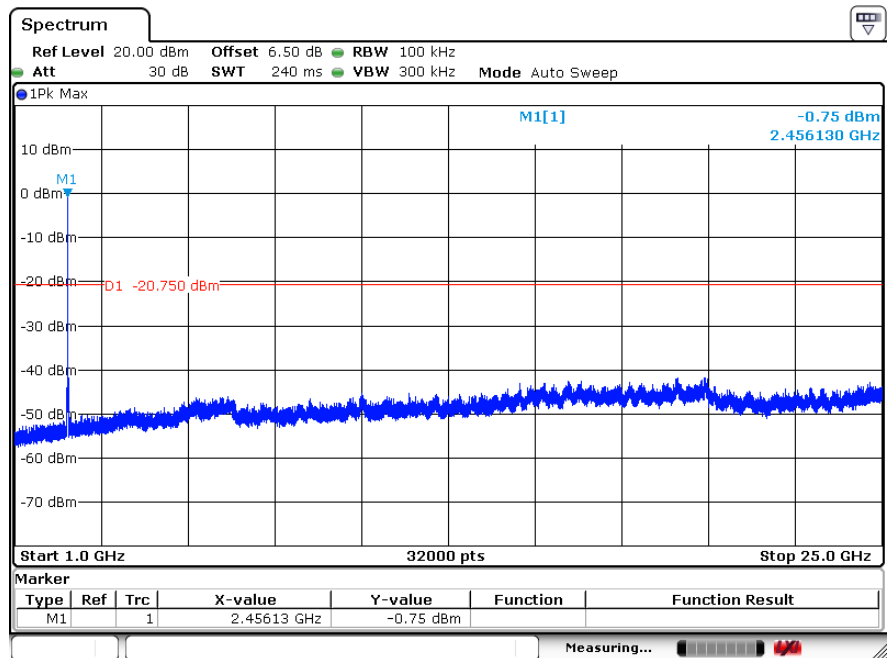
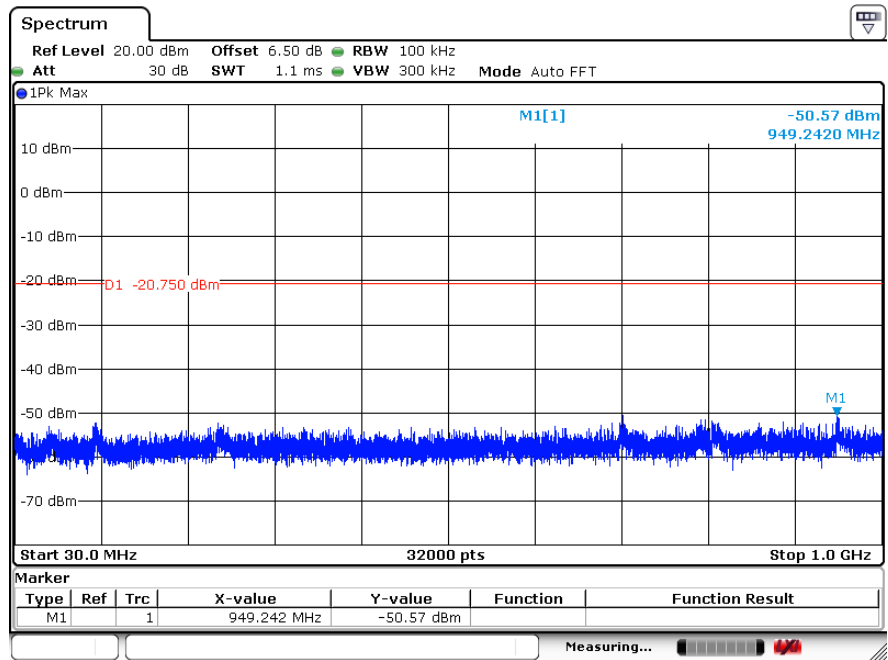
## CH01



## CH06



## CH11



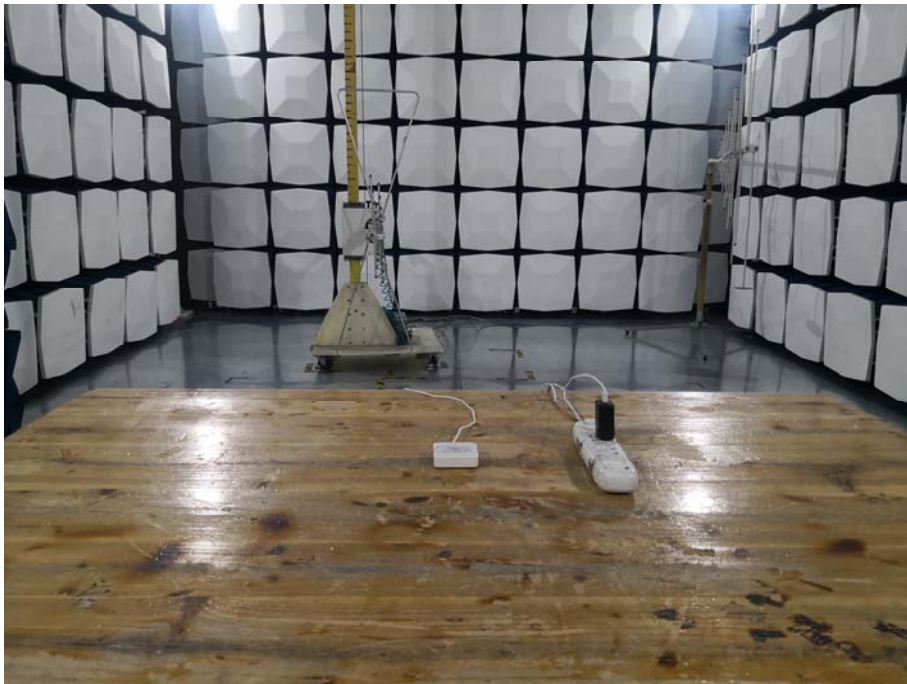
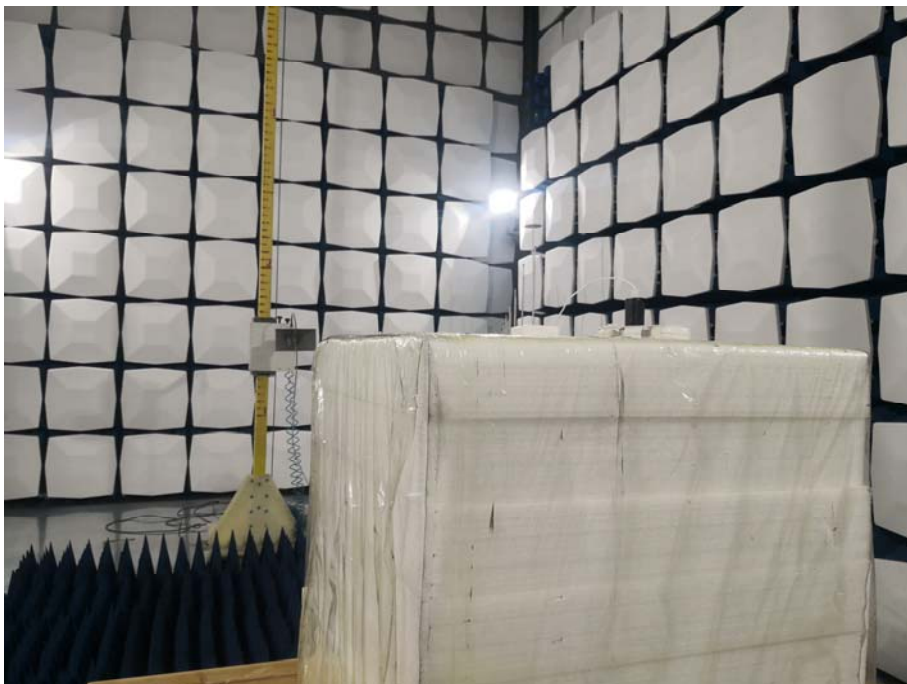
## **9. ANTENNA REQUIREMENT**

### **9.1 STANDARD REQUIREMENT**

3.10.1 requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

### **9.2 EUT ANTENNA**

The antenna is PIFA antenna and no consideration of replacement. Antenna max gain is 3.66 dBi from 2.4GHz to 2.5GHz.

**10. EUT TEST PHOTO****Radiated Measurement Photos  
30MHz-1GHz****Radiated Measurement Photos  
Above 1GHz**

**Conducted Measurement Photos****11. APPENDIX-Photographs of EUT Constructional Details**

Refer to Appendix-photographs.

**\*\* End of Report \*\***