

# TEST REPORT

Reference No..... : WTX23X05095991W012  
FCC ID ..... : YHLBLUN3U  
Applicant ..... : BLU Products, Inc.  
Address ..... : 8600 NW 36th Street, Suite #200,Doral, FL 33166,USA  
Manufacturer ..... : The same as Applicant  
Address ..... : The same as Applicant  
Product Name ..... : Smart Phone  
Model No..... : N3  
Standards ..... : **FCC PART15 SUBPART B**  
Date of Receipt sample .... : 2023-05-05  
Date of Test..... : 2023-05-05 to 2023-06-14  
Date of Issue ..... : 2023-06-15  
Test Report Form No. .... : WTX\_FCC PART15B\_001  
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

**Prepared By:**

**Waltek Testing Group (Shenzhen) Co., Ltd.**

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,  
Block 70 Bao'an District, Shenzhen, Guangdong, China

Tel.: +86-755-33663308 Fax.: +86-755-33663309 Email: sem@waltek.com.cn

Tested by:



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Jason Su

Approved by:



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Silin Chen

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Report version

| Version No. | Date of issue | Description |
|-------------|---------------|-------------|
| Rev.00      | 2023-06-15    | Original    |
| /           | /             | /           |

## 1. GENERAL INFORMATION

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### 1.1 Product Description for Equipment Under Test (EUT)

| General Description of EUT                                                                     |             |
|------------------------------------------------------------------------------------------------|-------------|
| Product Name:                                                                                  | Smart Phone |
| Trade Name:                                                                                    | BLU         |
| Model No.:                                                                                     | N3          |
| Adding Model(s):                                                                               | /           |
| <i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i> |             |

| Technical Characteristics of EUT |                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------|
| Rated Voltage:                   | DC3.87V                                                                                                       |
| Rated Current:                   | /                                                                                                             |
| Rated Power:                     | /                                                                                                             |
| Adapter Model:                   | US-KB-PD66W01<br>Input:AC100-240v~50/60Hz 1.5A<br>Output:DC5V3A;DC9V3A;DC12V3A;DC15V3A;DC20V3.25A;<br>DC11V6A |
| Lowest Internal Frequency:       | 26MHz                                                                                                         |
| Highest Internal Frequency:      | 5825MHz                                                                                                       |
| Classification of ITE:           | Class B                                                                                                       |

## 1.2 Test Standards

The tests were performed according to following standards:

**FCC Rules Part 15 Subpart B**:Unintentional Radiators.

**ANSI C63.4-2014**:American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

## 1.4 Test Facility

### **Address of the test laboratory**

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

### **FCC – Registration No.: 125990**

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

### **Industry Canada (IC) Registration No.: 11464A**

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

## 1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission. The test modes were adapted according to the operation manual for use, more detailed description as follows:

| Test Mode List                                                                                         |                      |                          |                         |
|--------------------------------------------------------------------------------------------------------|----------------------|--------------------------|-------------------------|
| Test Mode                                                                                              | Description          | Remark                   | Power Supply Mode       |
| TM1                                                                                                    | Charging And Playing | Connect to the Adapter;  | AC120V 60Hz for adapter |
| TM2                                                                                                    | Downloading          | Connect to the Notebook; | AC120V 60Hz for PC      |
| TM3                                                                                                    | Camera               | Camera On                | DC3.87V                 |
| TM4                                                                                                    | FM                   | Worst case FM 98MHz      | DC3.87V                 |
| TM5                                                                                                    | GPS                  | Receive 1575.42MHz       | DC3.87V                 |
| TM6                                                                                                    | GSM 850              | Receiver                 | DC3.87V                 |
| TM7                                                                                                    | WCMDA Band 5         | Receiver                 | DC3.87V                 |
| TM8                                                                                                    | LTE Band 5           | Receiver                 | DC3.87V                 |
| TM9                                                                                                    | NR5G n5              | Receiver                 | DC3.87V                 |
| <i>Note: For TM6-TM9, All bands are performed, but only the worst case is recorded in this report.</i> |                      |                          |                         |

| EUT Cable List and Details |            |                     |                        |                     |
|----------------------------|------------|---------------------|------------------------|---------------------|
| Cable Description          | Length (m) | Shielded/Unshielded | With / Without Ferrite | With / Without Chip |
| Type-C Cable               | 1.0        | Shielded            | Without Ferrite        | /                   |
| Headset Cable              | 1.2        | Unshielded          | Without Ferrite        | /                   |

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

| Auxiliary Equipment List and Details |              |                   |               |
|--------------------------------------|--------------|-------------------|---------------|
| Description                          | Manufacturer | Model             | Serial Number |
| Notebook                             | Lenovo       | Legion R700P ARH7 | /             |

1.6 Measurement Uncertainty

| Measurement uncertainty |            |                    |
|-------------------------|------------|--------------------|
| Parameter               | Conditions | Uncertainty        |
| Conducted Emissions     | Conducted  | 9-150kHz ±3.74dB   |
|                         |            | 0.15-30MHz ±3.34dB |
| Radiated Emissions      | Radiated   | 30-200MHz ±4.52dB  |
|                         |            | 0.2-1GHz ±5.56dB   |
|                         |            | 1-6GHz ±3.84dB     |
|                         |            | 6-18GHz ±3.92dB    |

**1.7 Test Equipment List and Details**

| Description                                              | Manufacturer    | Model       | Serial No.  | Cal Date   | Due Date   |
|----------------------------------------------------------|-----------------|-------------|-------------|------------|------------|
| <input checked="" type="checkbox"/> Chamber A:Below 1GHz |                 |             |             |            |            |
| Spectrum Analyzer                                        | Rohde & Schwarz | FSP         | 836079/035  | 2023-02-25 | 2024-02-24 |
| EMI Test Receiver                                        | Rohde & Schwarz | ESVB        | 825471/005  | 2023-02-25 | 2024-02-24 |
| Amplifier                                                | HP              | 8447F       | 2805A03475  | 2023-02-25 | 2024-02-24 |
| Loop Antenna                                             | Schwarz beck    | FMZB 1516   | 9773        | 2021-03-20 | 2024-03-19 |
| Trilog Broadband Antenna                                 | Schwarz beck    | VULB9163    | 9163-333    | 2023-03-20 | 2026-03-19 |
| <input type="checkbox"/> Chamber A:Above 1GHz            |                 |             |             |            |            |
| Amplifier                                                | C&D             | PAP-1G18    | 14918       | 2023-02-25 | 2024-02-24 |
| Horn Antenna                                             | ETS             | 3117        | 00086197    | 2021-03-19 | 2024-03-18 |
| <input type="checkbox"/> Chamber B:Below 1GHz            |                 |             |             |            |            |
| EMI Test Receiver                                        | Rohde & Schwarz | ESPI        | 101391      | 2023-02-25 | 2024-02-24 |
| Trilog Broadband Antenna                                 | Schwarz beck    | VULB9163(B) | 9163-635    | 2021-04-09 | 2024-04-08 |
| Amplifier                                                | Agilent         | 8447D       | 2944A10179  | 2023-02-25 | 2024-02-24 |
| <input type="checkbox"/> Chamber C:Below 1GHz            |                 |             |             |            |            |
| EMI Test Receiver                                        | Rohde & Schwarz | ESIB 26     | 100401      | 2023-02-25 | 2024-02-24 |
| Trilog Broadband Antenna                                 | Schwarz beck    | VULB 9168   | 1194        | 2021-05-28 | 2024-05-27 |
| Amplifier                                                | HP              | 8447F       | 2944A03869  | 2023-02-25 | 2024-02-24 |
| <input type="checkbox"/> Chamber C:Above 1GHz            |                 |             |             |            |            |
| EMI Test Receiver                                        | Rohde & Schwarz | ESIB 26     | 100401      | 2023-02-25 | 2024-02-24 |
| Horn Antenna                                             | POAM            | RTF-11A     | LP228060221 | 2023-03-10 | 2026-03-09 |
| Amplifier                                                | Tonscend        | TAP01018050 | AP22E806235 | 2023-02-25 | 2024-02-24 |
| <input type="checkbox"/> Conducted Room 1#               |                 |             |             |            |            |
| Pulse Limiter                                            | Rohde & Schwarz | ESH3-Z2     | 100911      | 2023-02-25 | 2024-02-24 |
| EMI Test Receiver                                        | Rohde & Schwarz | ESPI        | 101611      | 2023-02-25 | 2024-02-24 |
| AC LISN                                                  | Schwarz beck    | NSLK8126    | 8126-224    | 2023-02-25 | 2024-02-24 |
| <input checked="" type="checkbox"/> Conducted Room 2#    |                 |             |             |            |            |
| EMI Test Receiver                                        | Rohde & Schwarz | ESPI        | 10129       | 2023-02-25 | 2024-02-24 |

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|      |                 |         |        |            |            |
|------|-----------------|---------|--------|------------|------------|
| LISN | Rohde & Schwarz | ENV 216 | 100097 | 2023-02-25 | 2024-02-24 |
|------|-----------------|---------|--------|------------|------------|

| Software List                           |              |        |         |
|-----------------------------------------|--------------|--------|---------|
| Description                             | Manufacturer | Model  | Version |
| EMI Test Software (Radiated Emission)*  | Farad        | EZ-EMC | RA-03A1 |
| EMI Test Software (Conducted Emission)* | Farad        | EZ-EMC | RA-03A1 |

\*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

---

| Description of Test           | Result    |
|-------------------------------|-----------|
| §15.107(a) Conducted Emission | Compliant |
| §15.109(a) Radiated Emission  | Compliant |

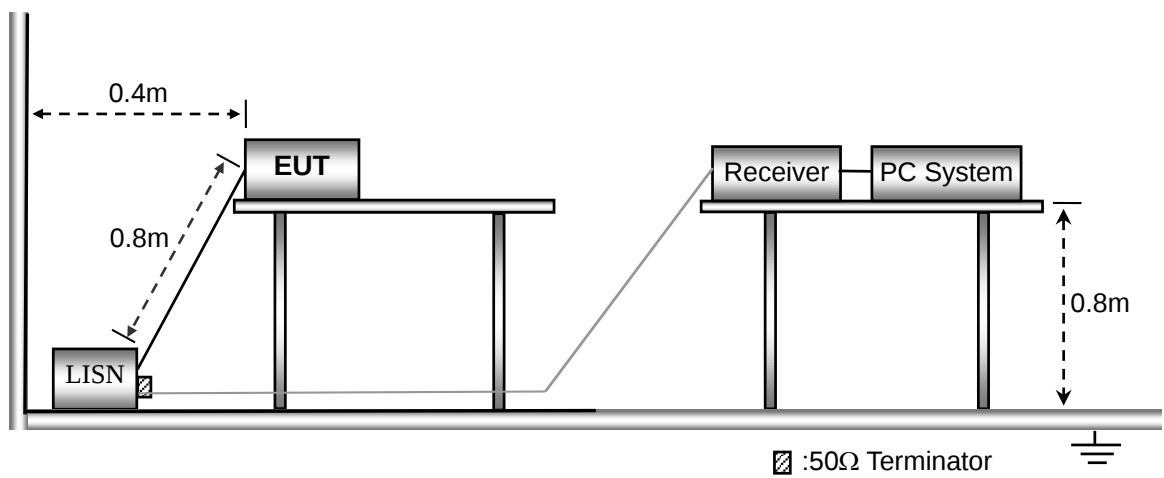
N/A: not applicable

### 3. Conducted Emissions

#### 3.1 Test Procedure

The test is conducted under the description of ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

#### 3.2 Basic Test Setup Block Diagram



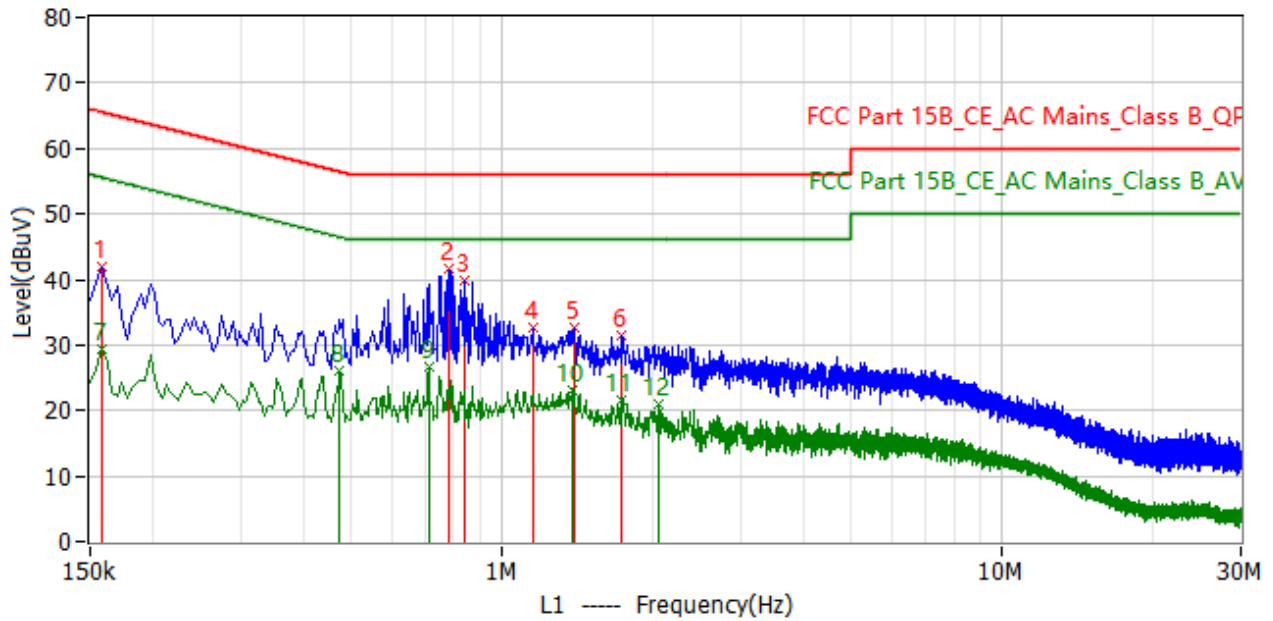
#### 3.3 Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 25°C      |
| Relative Humidity: | 45%       |
| ATM Pressure:      | 1014 mbar |

#### 3.4 Summary of Test Results

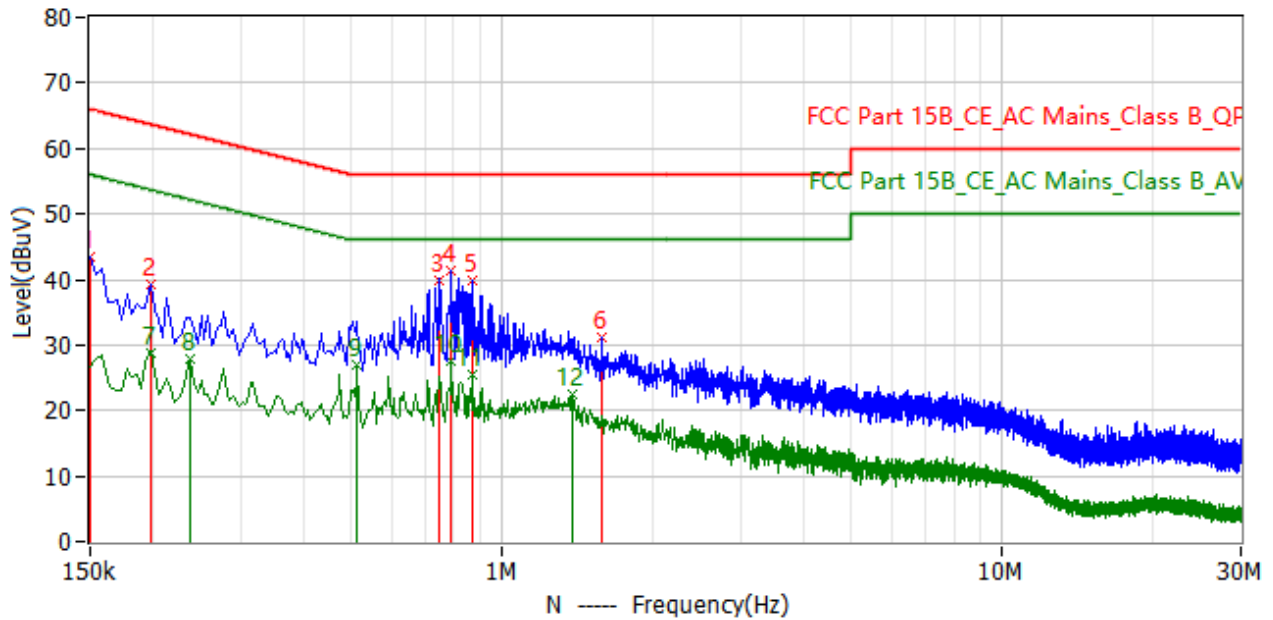
Please find the results below:

|            |     |           |      |
|------------|-----|-----------|------|
| Test mode: | TM1 | Polarity: | Line |
|------------|-----|-----------|------|



| No. | Frequency  | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector |
|-----|------------|------------|------------|----------|--------------|-----------|----------|
| 1*  | 158.000kHz | 65.6       | 41.9       | -23.7    | 32.0         | 9.9       | QP       |
| 2*  | 782.000kHz | 56.0       | 41.5       | -14.5    | 31.7         | 9.8       | QP       |
| 3*  | 838.000kHz | 56.0       | 39.8       | -16.2    | 30.0         | 9.8       | QP       |
| 4*  | 1.154MHz   | 56.0       | 32.8       | -23.2    | 23.0         | 9.8       | QP       |
| 5*  | 1.390MHz   | 56.0       | 32.7       | -23.3    | 22.9         | 9.8       | QP       |
| 6*  | 1.738MHz   | 56.0       | 31.4       | -24.6    | 21.6         | 9.8       | QP       |
| 7*  | 158.000kHz | 55.6       | 29.4       | -26.2    | 19.5         | 9.9       | AV       |
| 8*  | 474.000kHz | 46.4       | 26.0       | -20.5    | 16.3         | 9.7       | AV       |
| 9*  | 714.000kHz | 46.0       | 26.6       | -19.4    | 16.8         | 9.8       | AV       |
| 10* | 1.382MHz   | 46.0       | 23.2       | -22.8    | 13.4         | 9.8       | AV       |
| 11* | 1.738MHz   | 46.0       | 21.7       | -24.3    | 11.9         | 9.8       | AV       |
| 12* | 2.062MHz   | 46.0       | 21.0       | -25.0    | 11.2         | 9.8       | AV       |

|            |     |           |         |
|------------|-----|-----------|---------|
| Test mode: | TM1 | Polarity: | Neutral |
|------------|-----|-----------|---------|



| No. | Frequency  | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector |
|-----|------------|------------|------------|----------|--------------|-----------|----------|
| 1*  | 150.000kHz | 66.0       | 43.5       | -22.5    | 33.8         | 9.7       | QP       |
| 2*  | 198.000kHz | 63.7       | 39.3       | -24.4    | 29.6         | 9.7       | QP       |
| 3*  | 746.000kHz | 56.0       | 40.0       | -16.0    | 30.3         | 9.7       | QP       |
| 4*  | 790.000kHz | 56.0       | 41.4       | -14.6    | 31.7         | 9.7       | QP       |
| 5*  | 870.000kHz | 56.0       | 39.9       | -16.1    | 30.2         | 9.7       | QP       |
| 6*  | 1.586MHz   | 56.0       | 31.1       | -24.9    | 21.4         | 9.7       | QP       |
| 7*  | 198.000kHz | 53.7       | 28.9       | -24.8    | 19.2         | 9.7       | AV       |
| 8*  | 238.000kHz | 52.2       | 27.8       | -24.3    | 18.0         | 9.8       | AV       |
| 9*  | 514.000kHz | 46.0       | 26.9       | -19.1    | 17.3         | 9.6       | AV       |
| 10* | 790.000kHz | 46.0       | 27.5       | -18.5    | 17.8         | 9.7       | AV       |
| 11* | 870.000kHz | 46.0       | 25.5       | -20.5    | 15.8         | 9.7       | AV       |
| 12* | 1.386MHz   | 46.0       | 22.4       | -23.6    | 12.7         | 9.7       | AV       |

## 4. RADIATED EMISSION

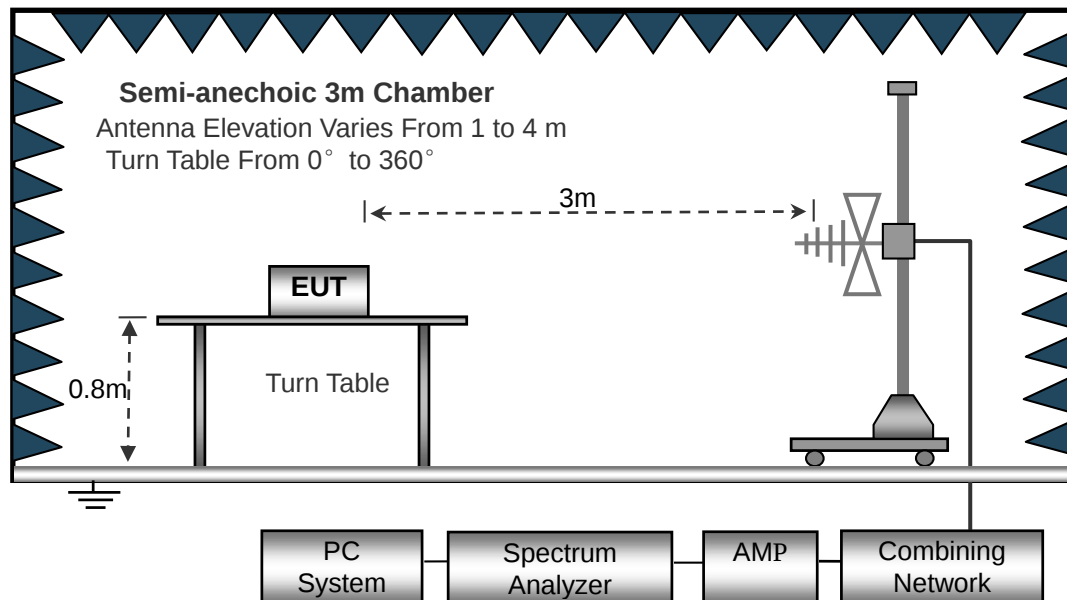
---

### 4.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.109 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

### 4.2 Block Diagram of Test Setup



### 4.3 Test Receiver Setup

|                          |                              |                              |
|--------------------------|------------------------------|------------------------------|
| Frequency :9kHz-30MHz    | Frequency :30MHz-1GHz        | Frequency :Above 1GHz        |
| RBW=10KHz,               | RBW=120KHz,                  | RBW=1MHz,                    |
| VBW =30KHz               | VBW=300KHz                   | VBW=3MHz(Peak), 10Hz(AV)     |
| Sweep time= Auto         | Sweep time= Auto             | Sweep time= Auto             |
| Trace = max hold         | Trace = max hold             | Trace = max hold             |
| Detector function = peak | Detector function = peak, QP | Detector function = peak, AV |

### 4.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Correct} \\ \text{Correct} = \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit for a Class B device. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15.109(a) Limit}$$

### 4.5 Environmental Conditions

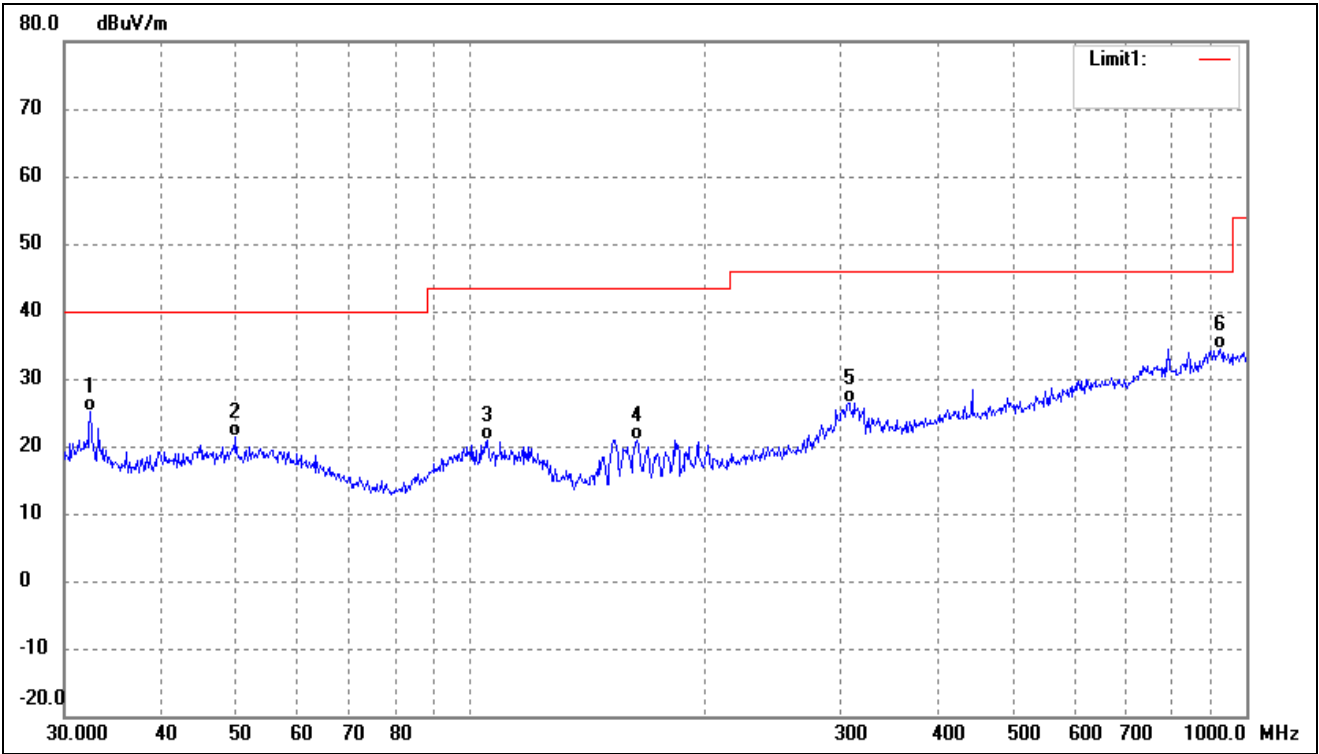
|                    |           |
|--------------------|-----------|
| Temperature:       | 22.5°C    |
| Relative Humidity: | 54 %      |
| ATM Pressure:      | 1011 mbar |

### 4.6 Summary of Test Results

Please find the results below:

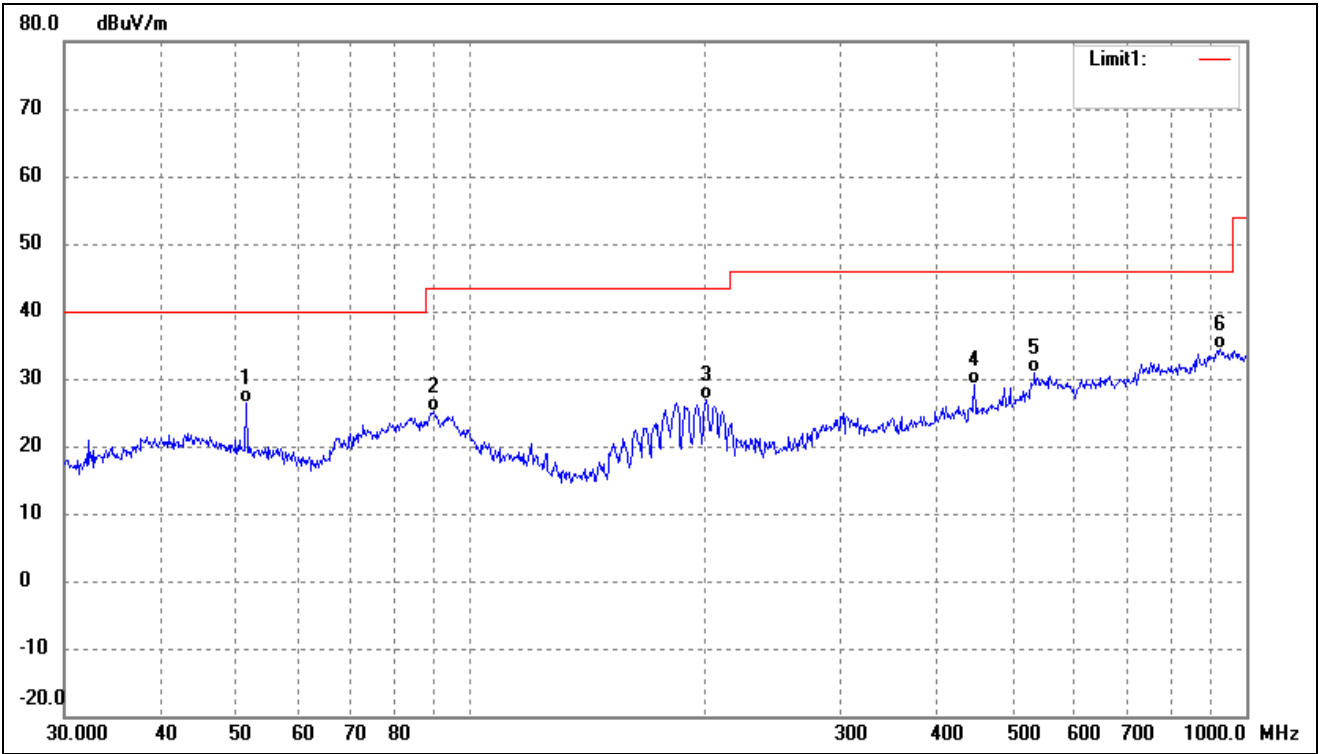
Below 1GHz

|            |     |           |            |
|------------|-----|-----------|------------|
| Test mode: | TM1 | Polarity: | Horizontal |
|------------|-----|-----------|------------|



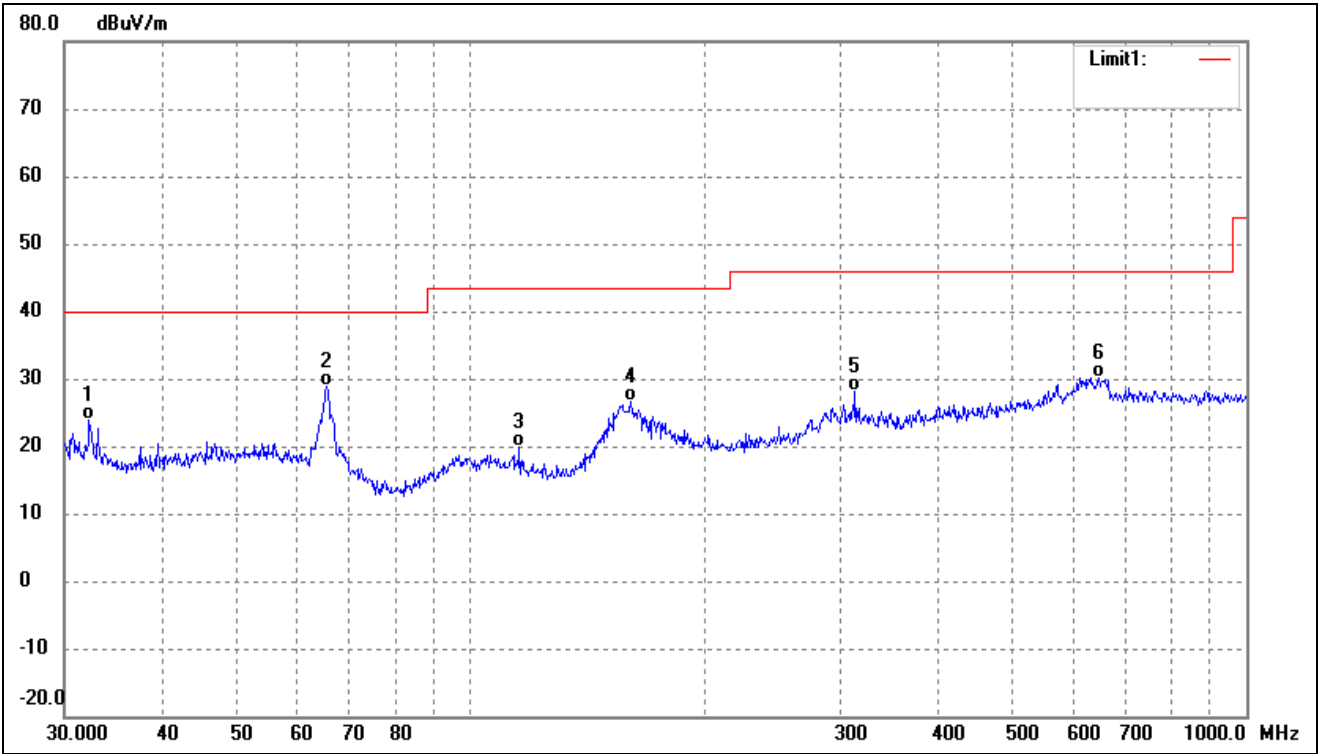
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree ( ) | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1   | 32.4059         | 35.47            | -10.34         | 25.13           | 40.00          | -14.87      | -          | -           | QP     |
| 2   | 49.8814         | 28.69            | -7.35          | 21.34           | 40.00          | -18.66      | -          | -           | QP     |
| 3   | 105.2718        | 29.22            | -8.44          | 20.78           | 43.50          | -22.72      | -          | -           | QP     |
| 4   | 164.3301        | 31.93            | -10.95         | 20.98           | 43.50          | -22.52      | -          | -           | QP     |
| 5   | 307.8313        | 31.11            | -4.62          | 26.49           | 46.00          | -19.51      | -          | -           | QP     |
| 6   | 925.7563        | 54.74            | -20.32         | 34.42           | 46.00          | -11.58      | -          | -           | QP     |

|            |     |           |          |
|------------|-----|-----------|----------|
| Test mode: | TM1 | Polarity: | Vertical |
|------------|-----|-----------|----------|



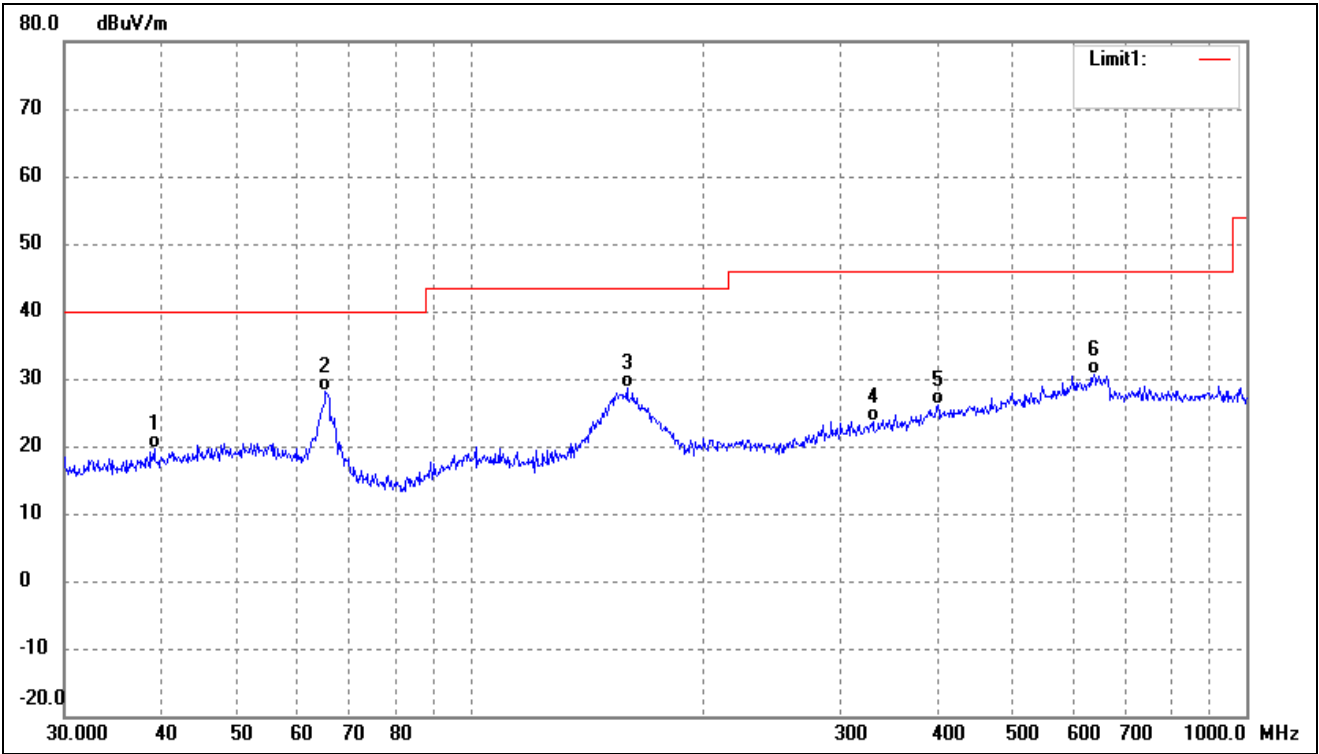
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 51.4807            | 33.85               | -7.37           | 26.48              | 40.00             | -13.52         | -             | -              | QP     |
| 2   | 89.9047            | 35.88               | -10.76          | 25.12              | 43.50             | -18.38         | -             | -              | QP     |
| 3   | 201.3930           | 34.88               | -8.00           | 26.88              | 43.50             | -16.62         | -             | -              | QP     |
| 4   | 446.4141           | 31.11               | -2.07           | 29.04              | 46.00             | -16.96         | -             | -              | QP     |
| 5   | 533.8321           | 31.48               | -0.58           | 30.90              | 46.00             | -15.10         | -             | -              | QP     |
| 6   | 925.7563           | 54.60               | -20.32          | 34.28              | 46.00             | -11.72         | -             | -              | QP     |

|            |     |           |            |
|------------|-----|-----------|------------|
| Test mode: | TM2 | Polarity: | Horizontal |
|------------|-----|-----------|------------|



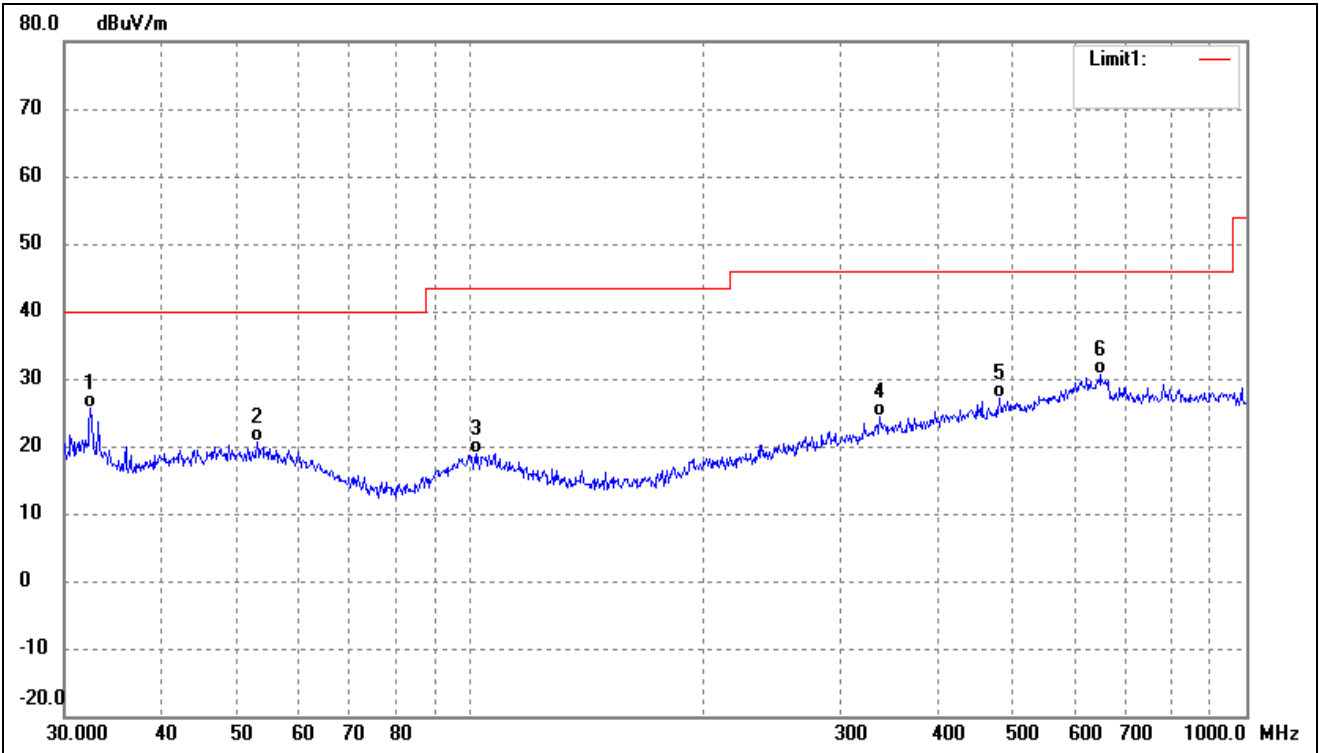
| No. | Frequency | Reading  | Correct | Result   | Limit    | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
|     | (MHz)     | (dBuV/m) | dB/m    | (dBuV/m) | (dBuV/m) | (dB)   | ( )    | (cm)   |        |
| 1   | 32.2925   | 34.16    | -10.38  | 23.78    | 40.00    | -16.22 | -      | -      | QP     |
| 2   | 65.3432   | 38.88    | -9.93   | 28.95    | 40.00    | -11.05 | -      | -      | QP     |
| 3   | 115.7256  | 29.29    | -9.49   | 19.80    | 43.50    | -23.70 | -      | -      | QP     |
| 4   | 160.9089  | 37.81    | -11.16  | 26.65    | 43.50    | -16.85 | -      | -      | QP     |
| 5   | 313.2760  | 32.68    | -4.51   | 28.17    | 46.00    | -17.83 | -      | -      | QP     |
| 6   | 645.1195  | 28.21    | 1.94    | 30.15    | 46.00    | -15.85 | -      | -      | QP     |

|            |     |           |          |
|------------|-----|-----------|----------|
| Test mode: | TM2 | Polarity: | Vertical |
|------------|-----|-----------|----------|



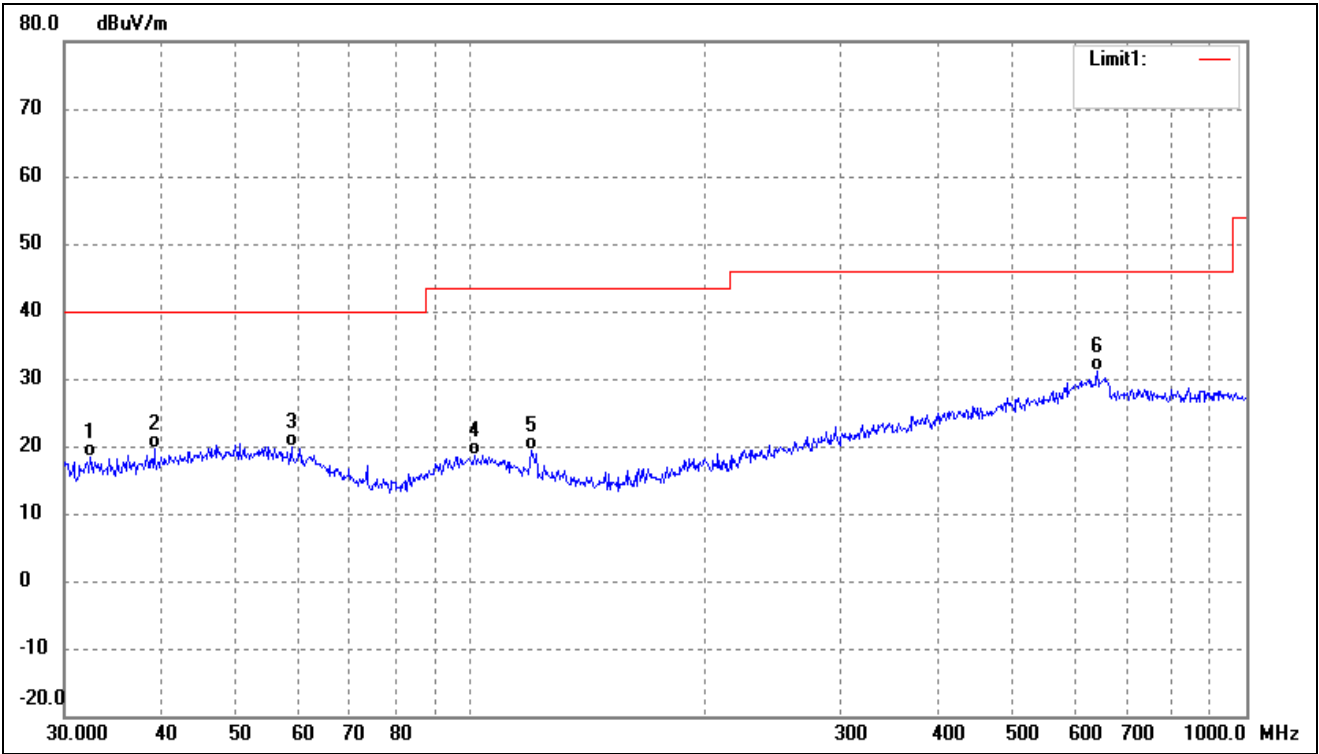
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 39.1616            | 28.41               | -8.73           | 19.68              | 40.00             | -20.32         | -             | -              | QP     |
| 2   | 65.1145            | 38.04               | -9.86           | 28.18              | 40.00             | -11.82         | -             | -              | QP     |
| 3   | 159.2251           | 39.81               | -11.25          | 28.56              | 43.50             | -14.94         | -             | -              | QP     |
| 4   | 330.1949           | 27.44               | -3.84           | 23.60              | 46.00             | -22.40         | -             | -              | QP     |
| 5   | 400.4319           | 28.66               | -2.53           | 26.13              | 46.00             | -19.87         | -             | -              | QP     |
| 6   | 636.1340           | 28.99               | 1.66            | 30.65              | 46.00             | -15.35         | -             | -              | QP     |

|            |     |           |            |
|------------|-----|-----------|------------|
| Test mode: | TM3 | Polarity: | Horizontal |
|------------|-----|-----------|------------|



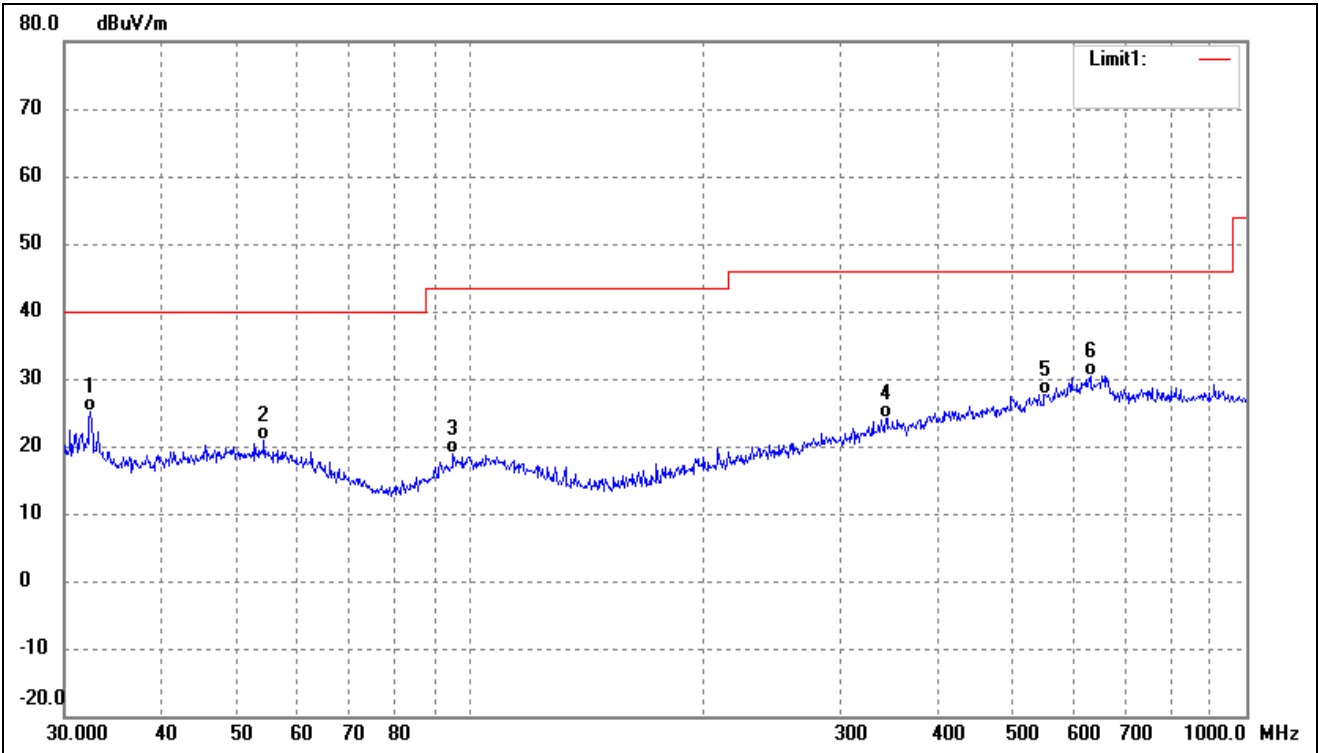
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 32.4059            | 36.05               | -10.34          | 25.71              | 40.00             | -14.29         | -             | -              | QP     |
| 2   | 53.1313            | 28.04               | -7.45           | 20.59              | 40.00             | -19.41         | -             | -              | QP     |
| 3   | 102.0014           | 27.36               | -8.49           | 18.87              | 43.50             | -24.63         | -             | -              | QP     |
| 4   | 337.2155           | 27.83               | -3.54           | 24.29              | 46.00             | -21.71         | -             | -              | QP     |
| 5   | 480.5276           | 28.63               | -1.54           | 27.09              | 46.00             | -18.91         | -             | -              | QP     |
| 6   | 649.6597           | 28.60               | 2.00            | 30.60              | 46.00             | -15.40         | -             | -              | QP     |

|            |     |           |          |
|------------|-----|-----------|----------|
| Test mode: | TM3 | Polarity: | Vertical |
|------------|-----|-----------|----------|



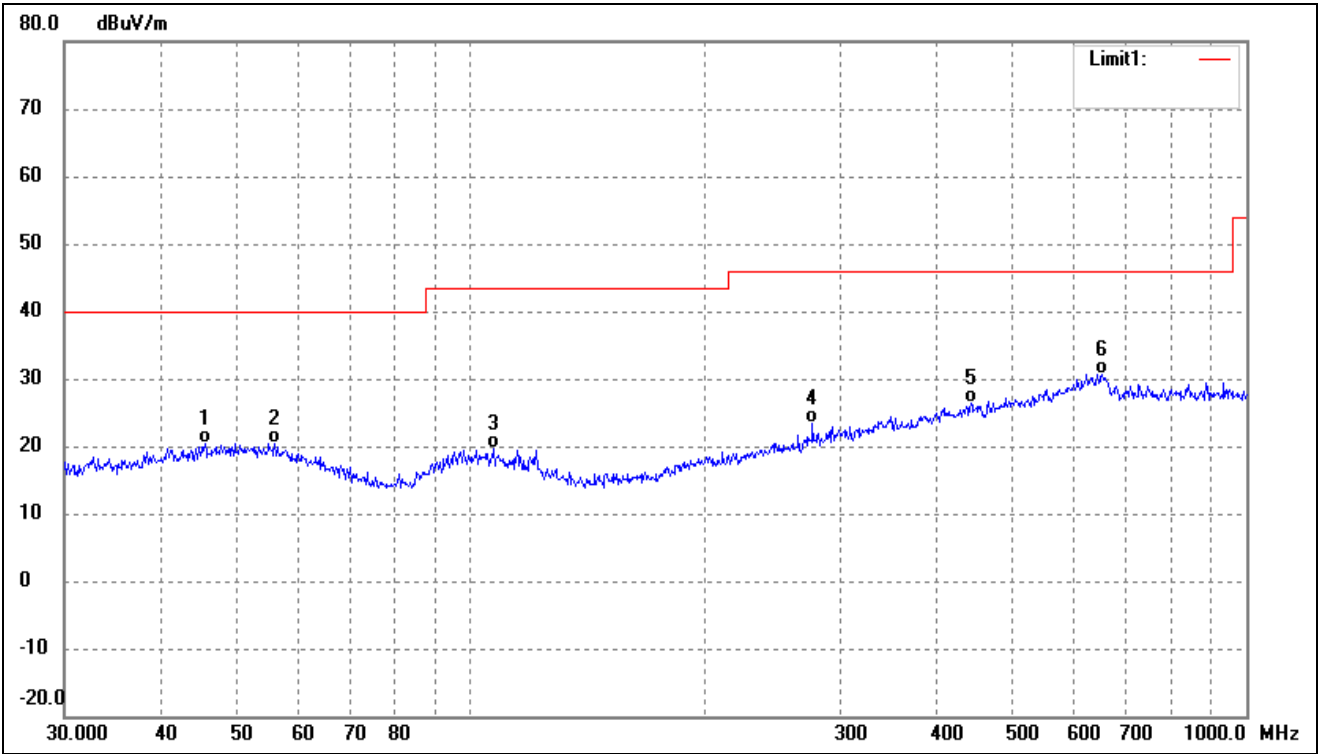
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 32.4059            | 28.74               | -10.34          | 18.40              | 40.00             | -21.60         | -             | -              | QP     |
| 2   | 39.1615            | 28.47               | -8.73           | 19.74              | 40.00             | -20.26         | -             | -              | QP     |
| 3   | 58.8185            | 28.03               | -8.21           | 19.82              | 40.00             | -20.18         | -             | -              | QP     |
| 4   | 101.2883           | 27.24               | -8.53           | 18.71              | 43.50             | -24.79         | -             | -              | QP     |
| 5   | 119.8555           | 29.56               | -10.11          | 19.45              | 43.50             | -24.05         | -             | -              | QP     |
| 6   | 642.8613           | 29.18               | 1.86            | 31.04              | 46.00             | -14.96         | -             | -              | QP     |

|            |     |           |            |
|------------|-----|-----------|------------|
| Test mode: | TM4 | Polarity: | Horizontal |
|------------|-----|-----------|------------|



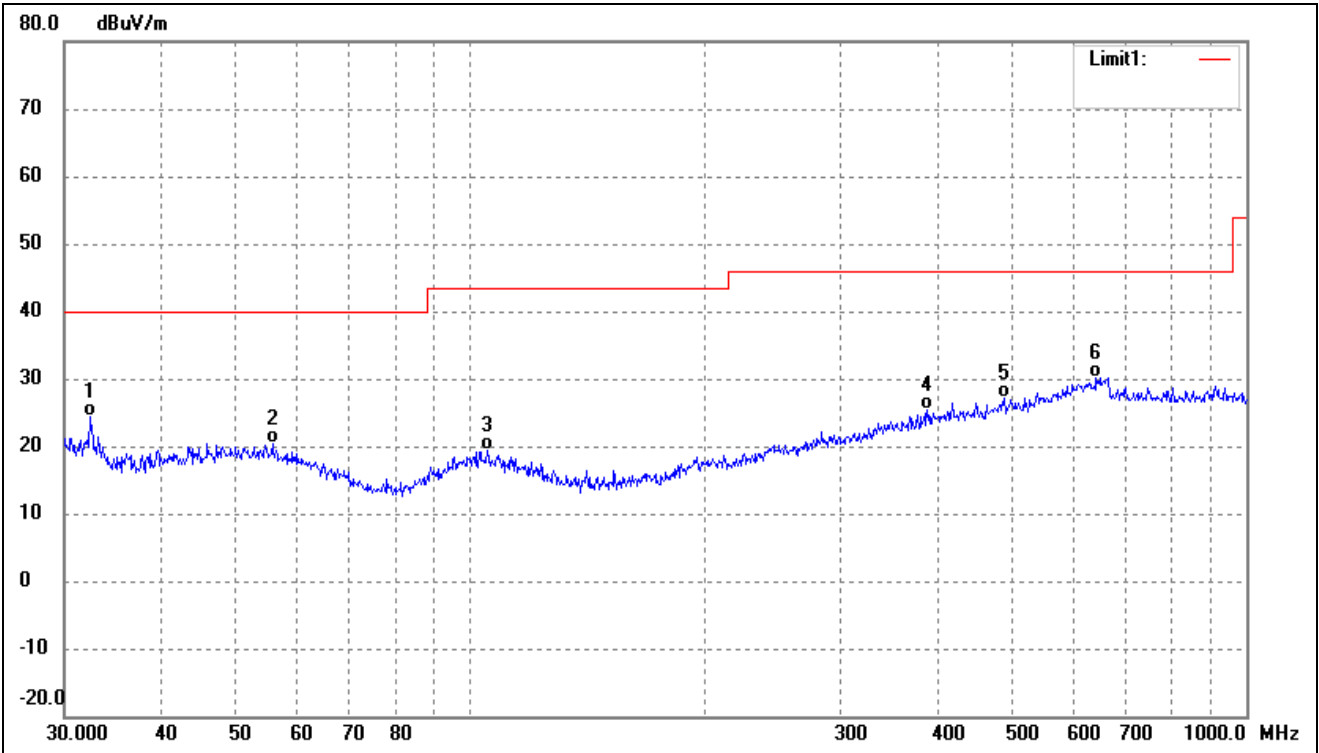
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree ( ) | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1   | 32.4059         | 35.37            | -10.34         | 25.03           | 40.00          | -14.97      | -          | -           | QP     |
| 2   | 54.2610         | 28.40            | -7.53          | 20.87           | 40.00          | -19.13      | -          | -           | QP     |
| 3   | 95.0930         | 28.28            | -9.42          | 18.86           | 43.50          | -24.64      | -          | -           | QP     |
| 4   | 343.1800        | 27.50            | -3.31          | 24.19           | 46.00          | -21.81      | -          | -           | QP     |
| 5   | 550.9480        | 27.84            | -0.14          | 27.70           | 46.00          | -18.30      | -          | -           | QP     |
| 6   | 629.4772        | 28.81            | 1.53           | 30.34           | 46.00          | -15.66      | -          | -           | QP     |

|            |     |           |          |
|------------|-----|-----------|----------|
| Test mode: | TM4 | Polarity: | Vertical |
|------------|-----|-----------|----------|



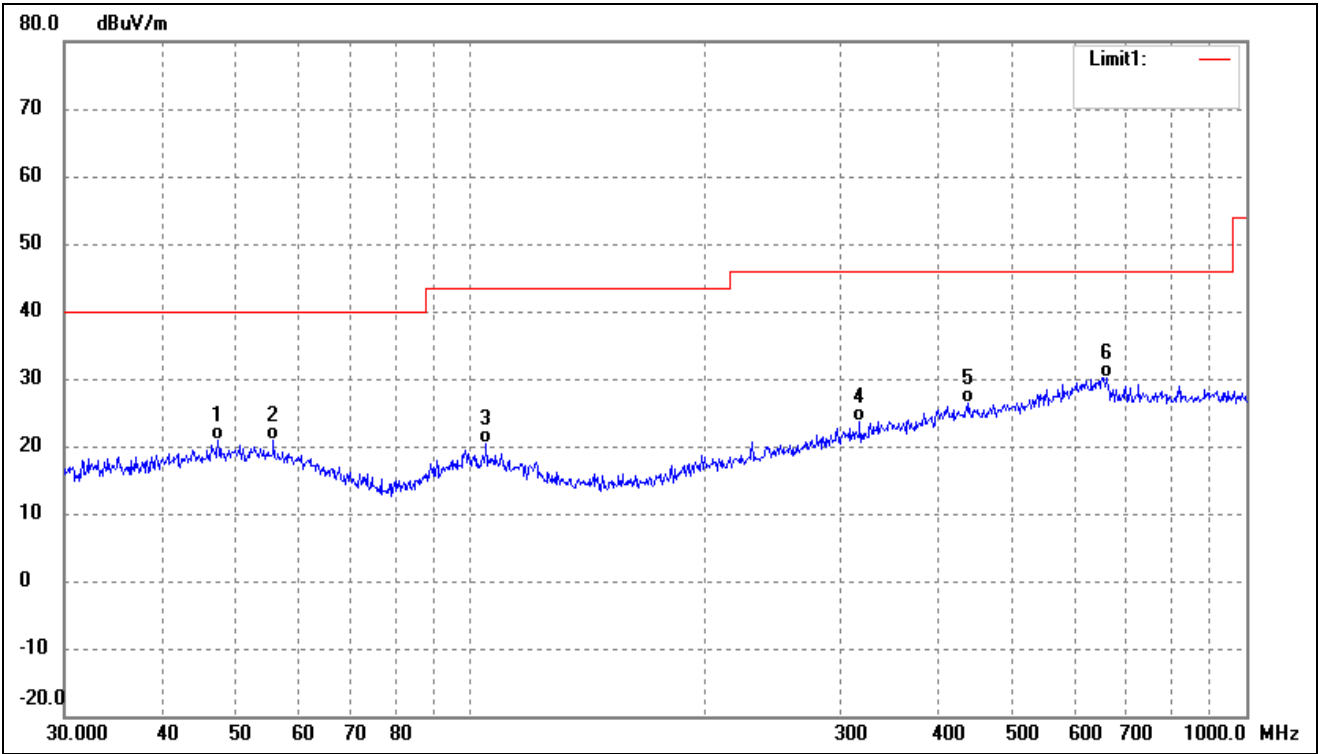
| No. | Frequency | Reading  | Correct | Result   | Limit    | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
|     | (MHz)     | (dBuV/m) | dB/m    | (dBuV/m) | (dBuV/m) | (dB)   | ( )    | (cm)   |        |
| 1   | 45.5348   | 28.03    | -7.65   | 20.38    | 40.00    | -19.62 | -      | -      | QP     |
| 2   | 56.0007   | 28.22    | -7.75   | 20.47    | 40.00    | -19.53 | -      | -      | QP     |
| 3   | 107.1337  | 28.20    | -8.51   | 19.69    | 43.50    | -23.81 | -      | -      | QP     |
| 4   | 276.1235  | 28.86    | -5.58   | 23.28    | 46.00    | -22.72 | -      | -      | QP     |
| 5   | 441.7426  | 28.56    | -2.08   | 26.48    | 46.00    | -19.52 | -      | -      | QP     |
| 6   | 651.9417  | 28.73    | 2.02    | 30.75    | 46.00    | -15.25 | -      | -      | QP     |

|            |     |           |            |
|------------|-----|-----------|------------|
| Test mode: | TM5 | Polarity: | Horizontal |
|------------|-----|-----------|------------|



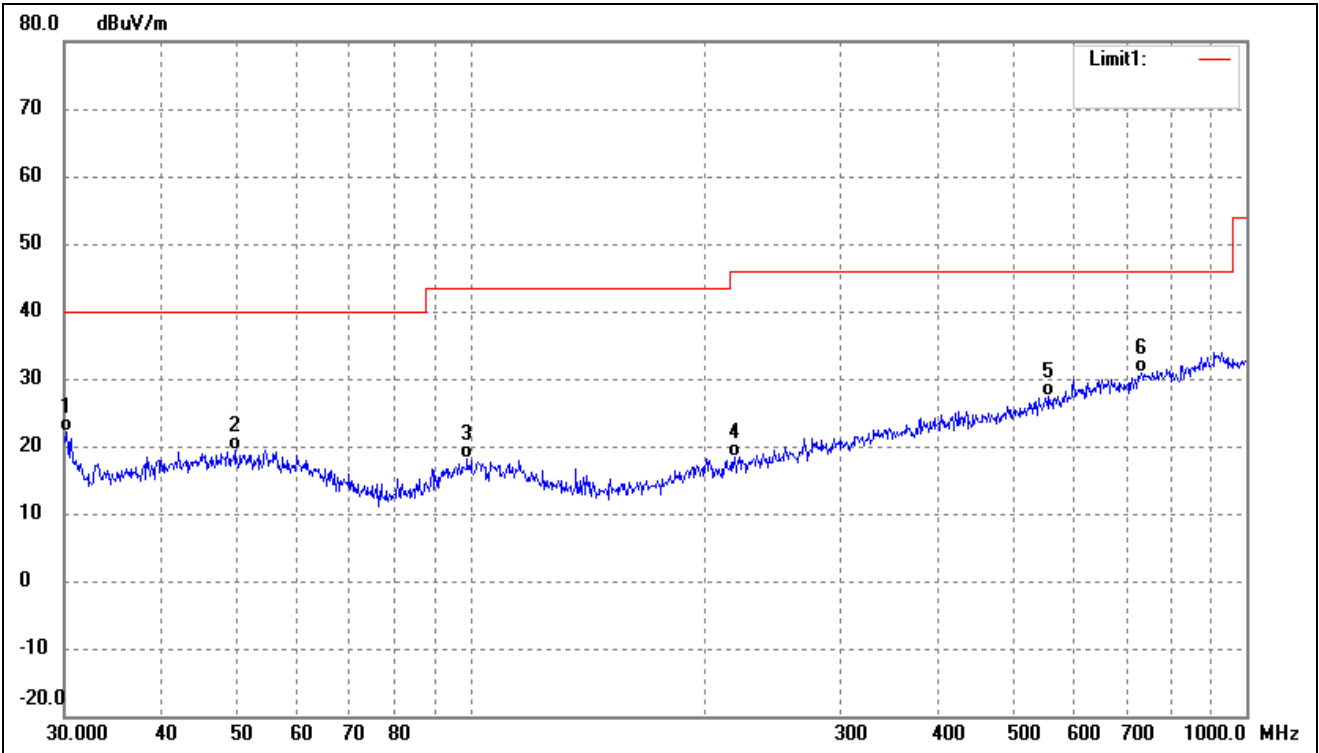
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 32.4059            | 34.74               | -10.34          | 24.40              | 40.00             | -15.60         | -             | -              | QP     |
| 2   | 55.6094            | 28.00               | -7.71           | 20.29              | 40.00             | -19.71         | -             | -              | QP     |
| 3   | 105.2718           | 27.71               | -8.44           | 19.27              | 43.50             | -24.23         | -             | -              | QP     |
| 4   | 387.9920           | 28.15               | -2.85           | 25.30              | 46.00             | -20.70         | -             | -              | QP     |
| 5   | 487.3151           | 28.35               | -1.30           | 27.05              | 46.00             | -18.95         | -             | -              | QP     |
| 6   | 640.6110           | 28.41               | 1.79            | 30.20              | 46.00             | -15.80         | -             | -              | QP     |

|            |     |           |          |
|------------|-----|-----------|----------|
| Test mode: | TM5 | Polarity: | Vertical |
|------------|-----|-----------|----------|



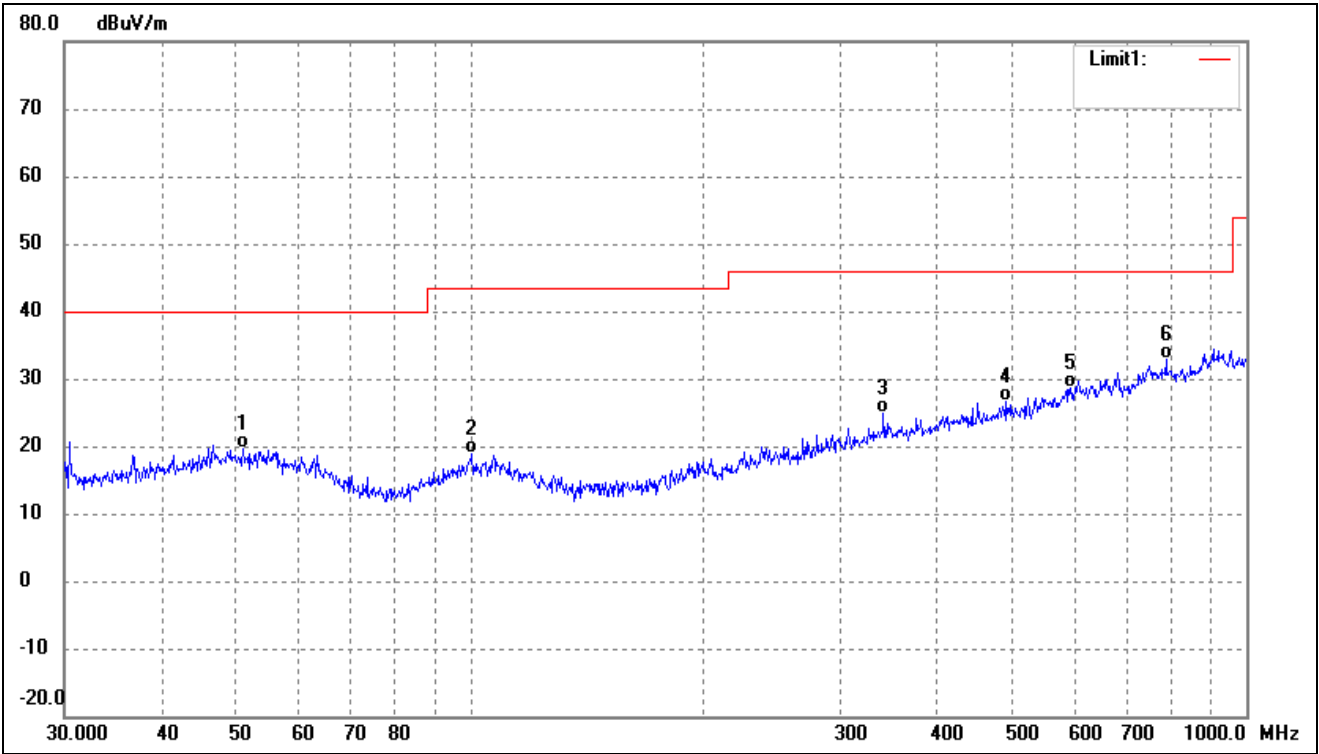
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 47.3255            | 28.31               | -7.47           | 20.84              | 40.00             | -19.16         | -             | -              | QP     |
| 2   | 55.8047            | 28.49               | -7.72           | 20.77              | 40.00             | -19.23         | -             | -              | QP     |
| 3   | 104.9033           | 28.78               | -8.44           | 20.34              | 43.50             | -23.16         | -             | -              | QP     |
| 4   | 317.7011           | 27.89               | -4.37           | 23.52              | 46.00             | -22.48         | -             | -              | QP     |
| 5   | 438.6554           | 28.35               | -2.09           | 26.26              | 46.00             | -19.74         | -             | -              | QP     |
| 6   | 661.1505           | 28.01               | 2.10            | 30.11              | 46.00             | -15.89         | -             | -              | QP     |

|            |     |           |            |
|------------|-----|-----------|------------|
| Test mode: | TM6 | Polarity: | Horizontal |
|------------|-----|-----------|------------|



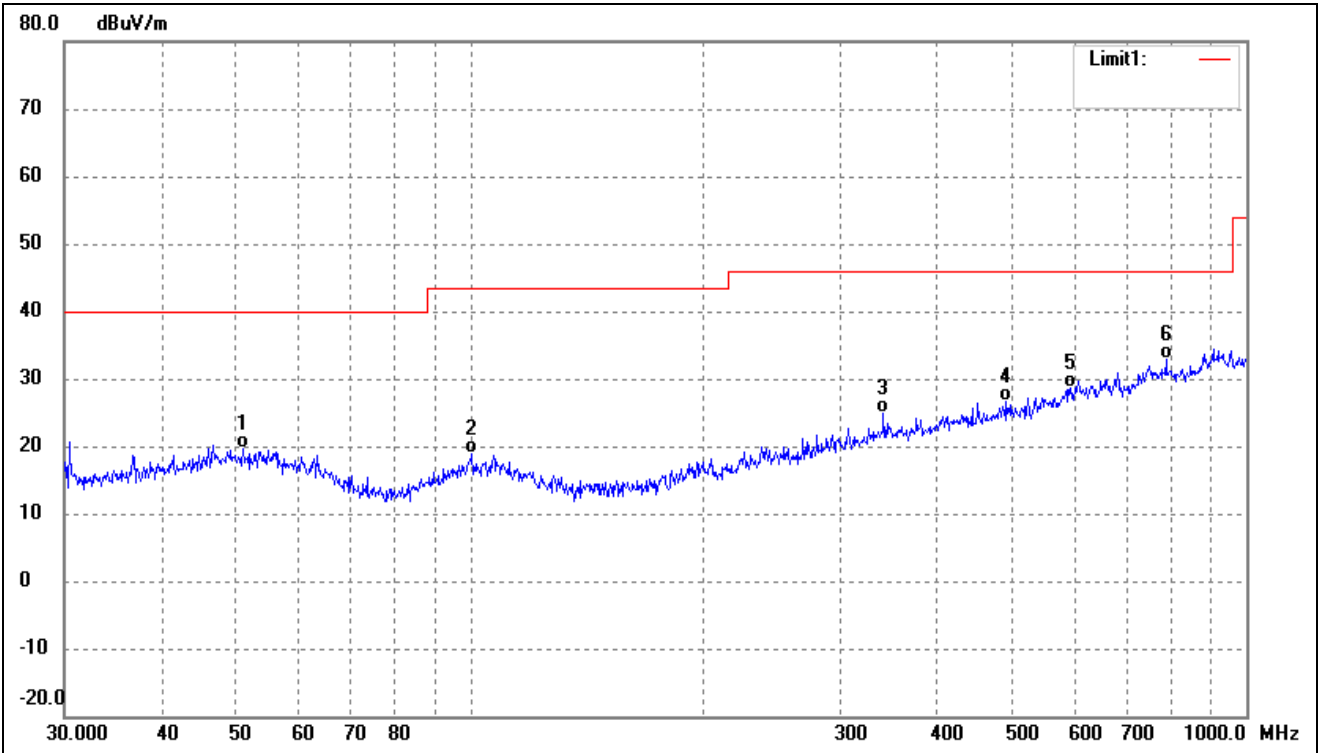
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 30.2111            | 32.79               | -10.76          | 22.03              | 40.00             | -17.97         | -             | -              | QP     |
| 2   | 49.7068            | 26.78               | -7.35           | 19.43              | 40.00             | -20.57         | -             | -              | QP     |
| 3   | 99.1797            | 26.86               | -8.71           | 18.15              | 43.50             | -25.35         | -             | -              | QP     |
| 4   | 219.0753           | 26.00               | -7.67           | 18.33              | 46.00             | -27.67         | -             | -              | QP     |
| 5   | 554.8254           | 27.55               | -0.07           | 27.48              | 46.00             | -18.52         | -             | -              | QP     |
| 6   | 731.9203           | 27.46               | 3.44            | 30.90              | 46.00             | -15.10         | -             | -              | QP     |

|            |     |           |          |
|------------|-----|-----------|----------|
| Test mode: | TM6 | Polarity: | Vertical |
|------------|-----|-----------|----------|



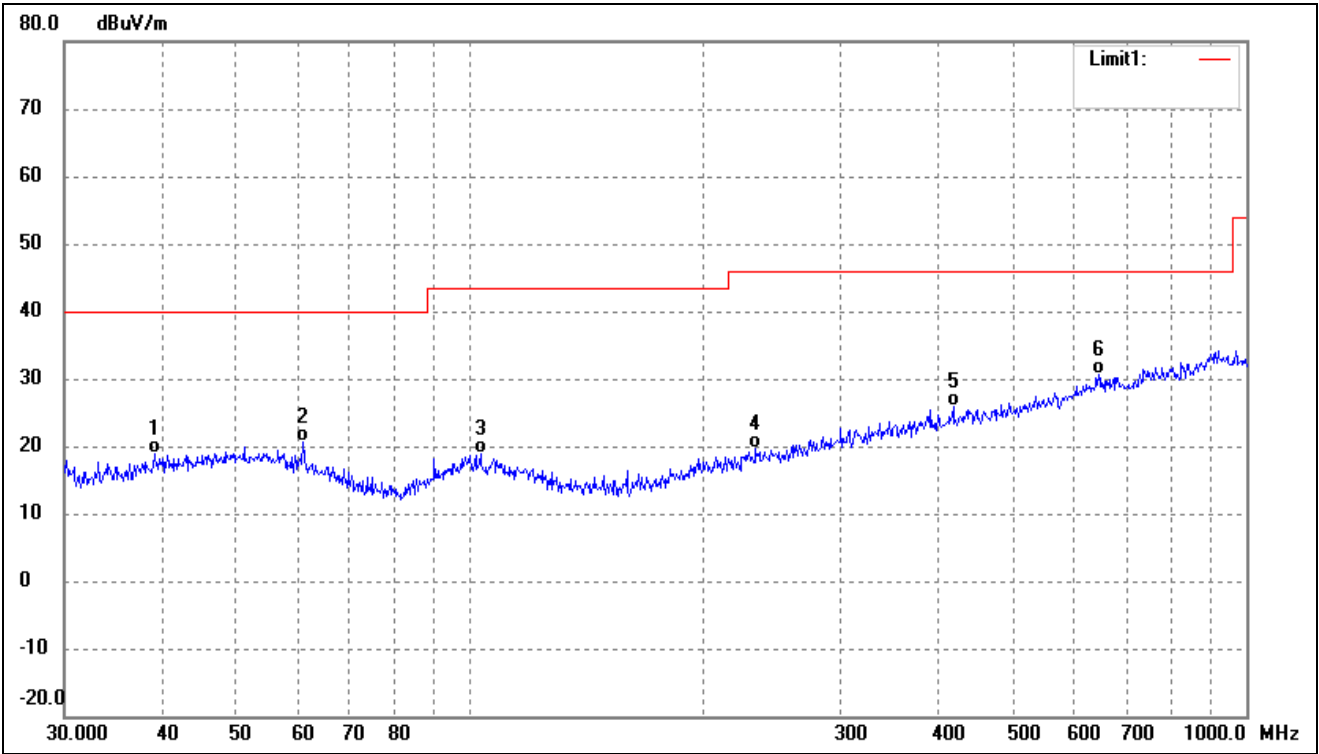
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 50.9420            | 26.94               | -7.36           | 19.58              | 40.00             | -20.42         | -             | -              | QP     |
| 2   | 100.5806           | 27.55               | -8.58           | 18.97              | 43.50             | -24.53         | -             | -              | QP     |
| 3   | 340.7817           | 28.16               | -3.39           | 24.77              | 46.00             | -21.23         | -             | -              | QP     |
| 4   | 490.7447           | 27.91               | -1.21           | 26.70              | 46.00             | -19.30         | -             | -              | QP     |
| 5   | 593.0497           | 27.49               | 1.11            | 28.60              | 46.00             | -17.40         | -             | -              | QP     |
| 6   | 787.8513           | 28.64               | 4.14            | 32.78              | 46.00             | -13.22         | -             | -              | QP     |

|            |     |           |            |
|------------|-----|-----------|------------|
| Test mode: | TM7 | Polarity: | Horizontal |
|------------|-----|-----------|------------|



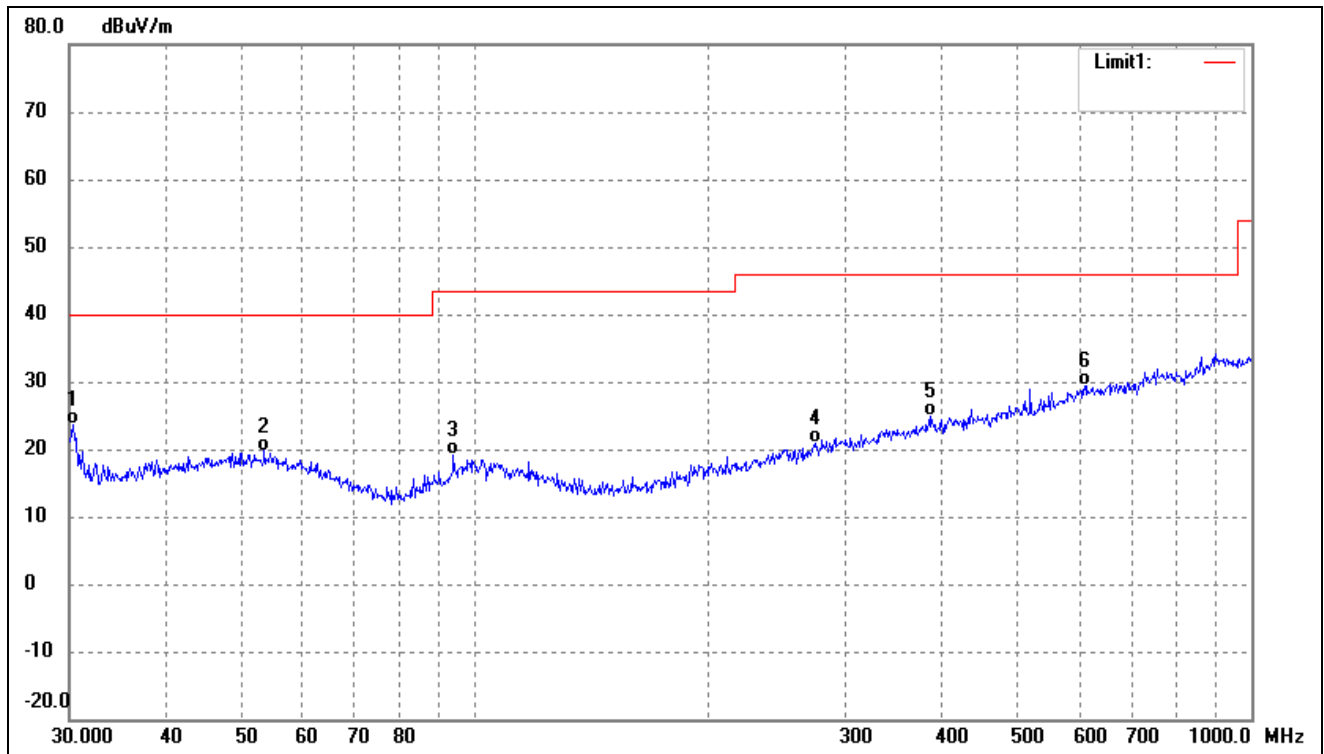
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 50.9420            | 26.94               | -7.36           | 19.58              | 40.00             | -20.42         | -             | -              | QP     |
| 2   | 100.5806           | 27.55               | -8.58           | 18.97              | 43.50             | -24.53         | -             | -              | QP     |
| 3   | 340.7817           | 28.16               | -3.39           | 24.77              | 46.00             | -21.23         | -             | -              | QP     |
| 4   | 490.7447           | 27.91               | -1.21           | 26.70              | 46.00             | -19.30         | -             | -              | QP     |
| 5   | 593.0497           | 27.49               | 1.11            | 28.60              | 46.00             | -17.40         | -             | -              | QP     |
| 6   | 787.8513           | 28.64               | 4.14            | 32.78              | 46.00             | -13.22         | -             | -              | QP     |

|            |     |           |          |
|------------|-----|-----------|----------|
| Test mode: | TM7 | Polarity: | Vertical |
|------------|-----|-----------|----------|



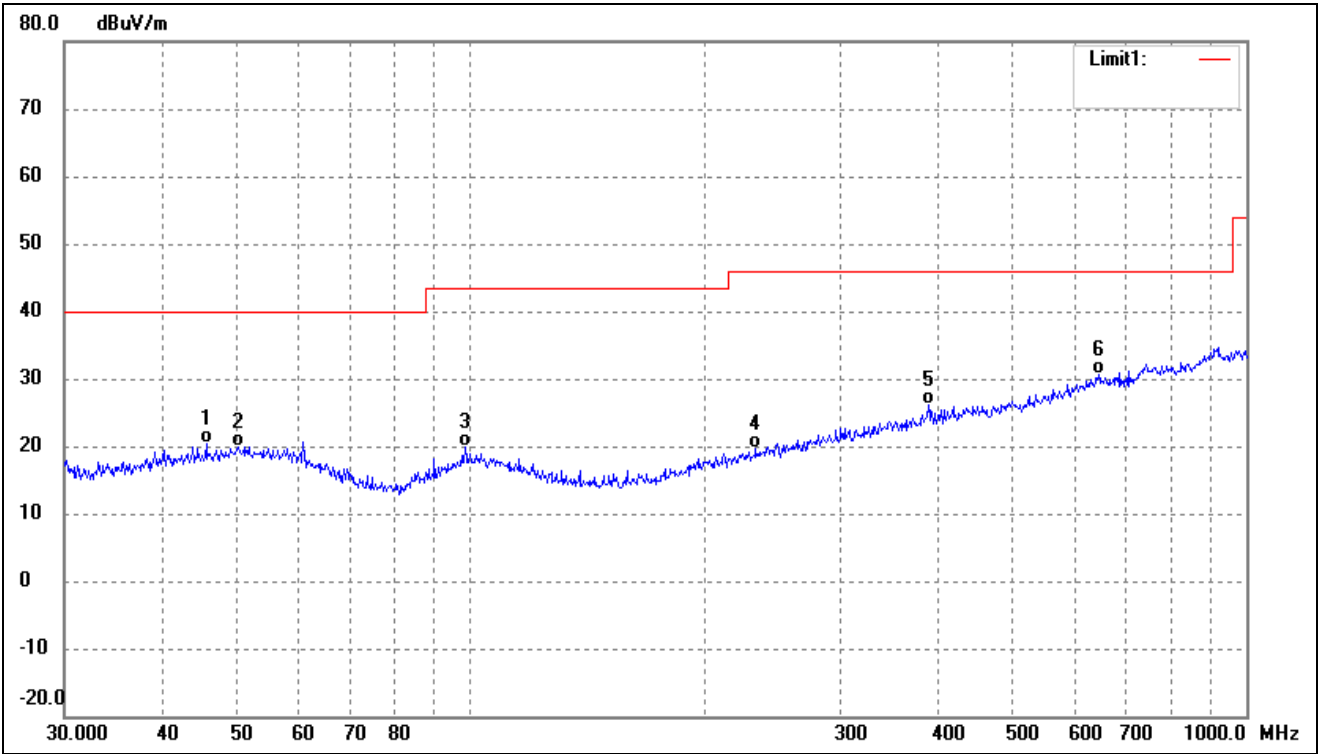
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 39.1616            | 27.55               | -8.73           | 18.82              | 40.00             | -21.18         | -             | -              | QP     |
| 2   | 60.9176            | 29.43               | -8.69           | 20.74              | 40.00             | -19.26         | -             | -              | QP     |
| 3   | 103.0800           | 27.27               | -8.45           | 18.82              | 43.50             | -24.68         | -             | -              | QP     |
| 4   | 233.3487           | 26.65               | -6.97           | 19.68              | 46.00             | -26.32         | -             | -              | QP     |
| 5   | 419.1081           | 28.16               | -2.19           | 25.97              | 46.00             | -20.03         | -             | -              | QP     |
| 6   | 645.1195           | 28.71               | 1.94            | 30.65              | 46.00             | -15.35         | -             | -              | QP     |

|            |     |           |            |
|------------|-----|-----------|------------|
| Test mode: | TM8 | Polarity: | Horizontal |
|------------|-----|-----------|------------|



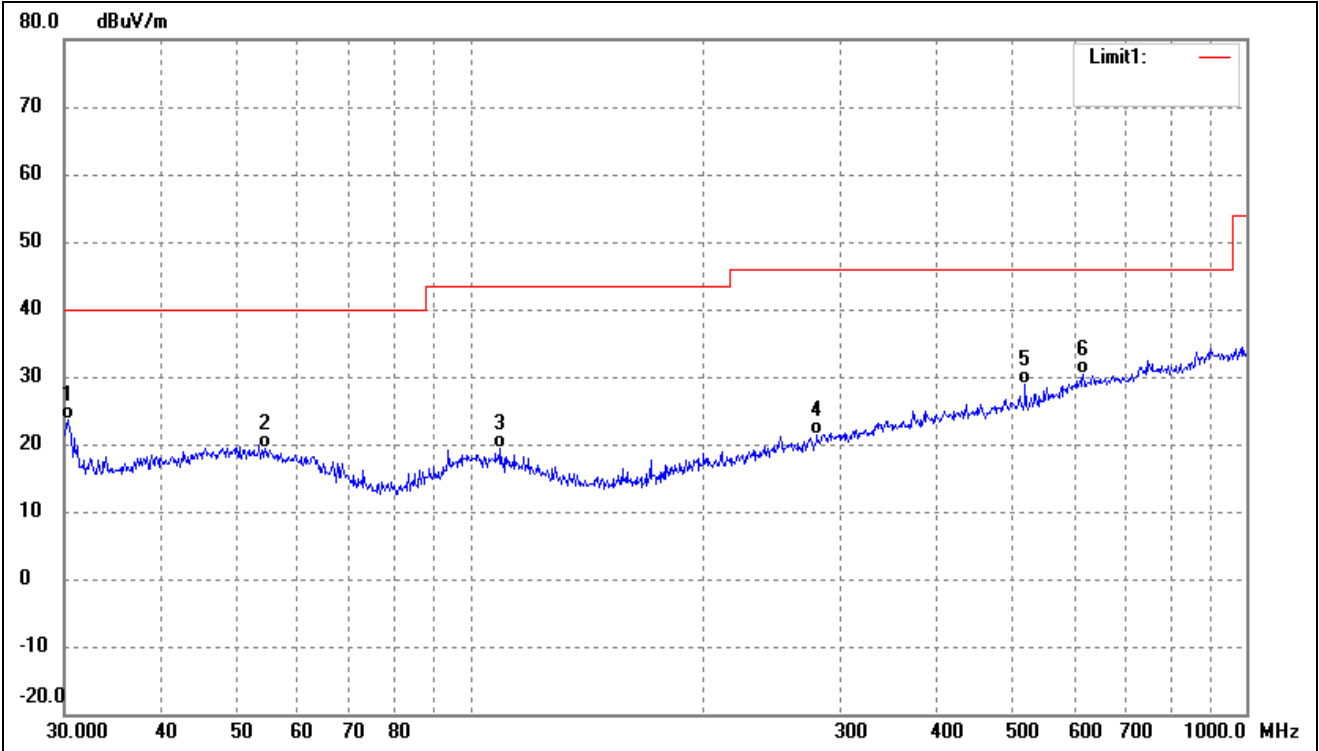
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 30.3173            | 34.47               | -10.76          | 23.71              | 40.00             | -16.29         | -             | -              | QP     |
| 2   | 53.5052            | 27.22               | -7.47           | 19.75              | 40.00             | -20.25         | -             | -              | QP     |
| 3   | 93.7685            | 28.82               | -9.73           | 19.09              | 43.50             | -24.41         | -             | -              | QP     |
| 4   | 274.1939           | 26.57               | -5.69           | 20.88              | 46.00             | -25.12         | -             | -              | QP     |
| 5   | 385.2805           | 27.77               | -2.93           | 24.84              | 46.00             | -21.16         | -             | -              | QP     |
| 6   | 609.9217           | 27.94               | 1.53            | 29.47              | 46.00             | -16.53         | -             | -              | QP     |

|            |     |           |          |
|------------|-----|-----------|----------|
| Test mode: | TM8 | Polarity: | Vertical |
|------------|-----|-----------|----------|



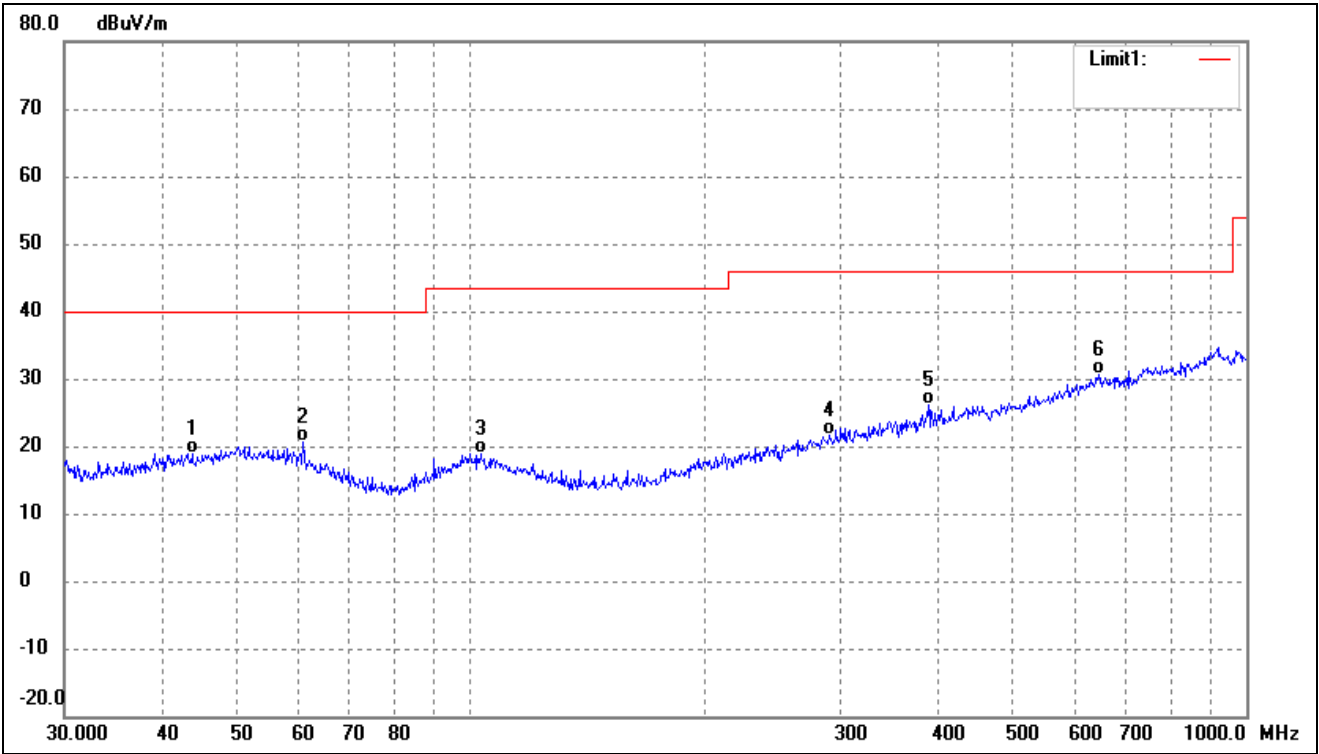
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree ( ) | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1   | 45.6948         | 28.03            | -7.63          | 20.40           | 40.00          | -19.60      | -          | -           | QP     |
| 2   | 50.2325         | 27.32            | -7.35          | 19.97           | 40.00          | -20.03      | -          | -           | QP     |
| 3   | 98.4866         | 28.65            | -8.81          | 19.84           | 43.50          | -23.66      | -          | -           | QP     |
| 4   | 233.3487        | 26.65            | -6.97          | 19.68           | 46.00          | -26.32      | -          | -           | QP     |
| 5   | 389.3549        | 28.98            | -2.83          | 26.15           | 46.00          | -19.85      | -          | -           | QP     |
| 6   | 645.1195        | 28.71            | 1.94           | 30.65           | 46.00          | -15.35      | -          | -           | QP     |

|            |     |           |            |
|------------|-----|-----------|------------|
| Test mode: | TM9 | Polarity: | Horizontal |
|------------|-----|-----------|------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 30.3173            | 34.47               | -10.76          | 23.71              | 40.00             | -16.29         | -             | -              | QP     |
| 2   | 54.4516            | 27.00               | -7.55           | 19.45              | 40.00             | -20.55         | -             | -              | QP     |
| 3   | 109.4116           | 28.10               | -8.69           | 19.41              | 43.50             | -24.09         | -             | -              | QP     |
| 4   | 280.0238           | 26.64               | -5.31           | 21.33              | 46.00             | -24.67         | -             | -              | QP     |
| 5   | 519.0649           | 29.83               | -0.92           | 28.91              | 46.00             | -17.09         | -             | -              | QP     |
| 6   | 616.3718           | 28.85               | 1.48            | 30.33              | 46.00             | -15.67         | -             | -              | QP     |

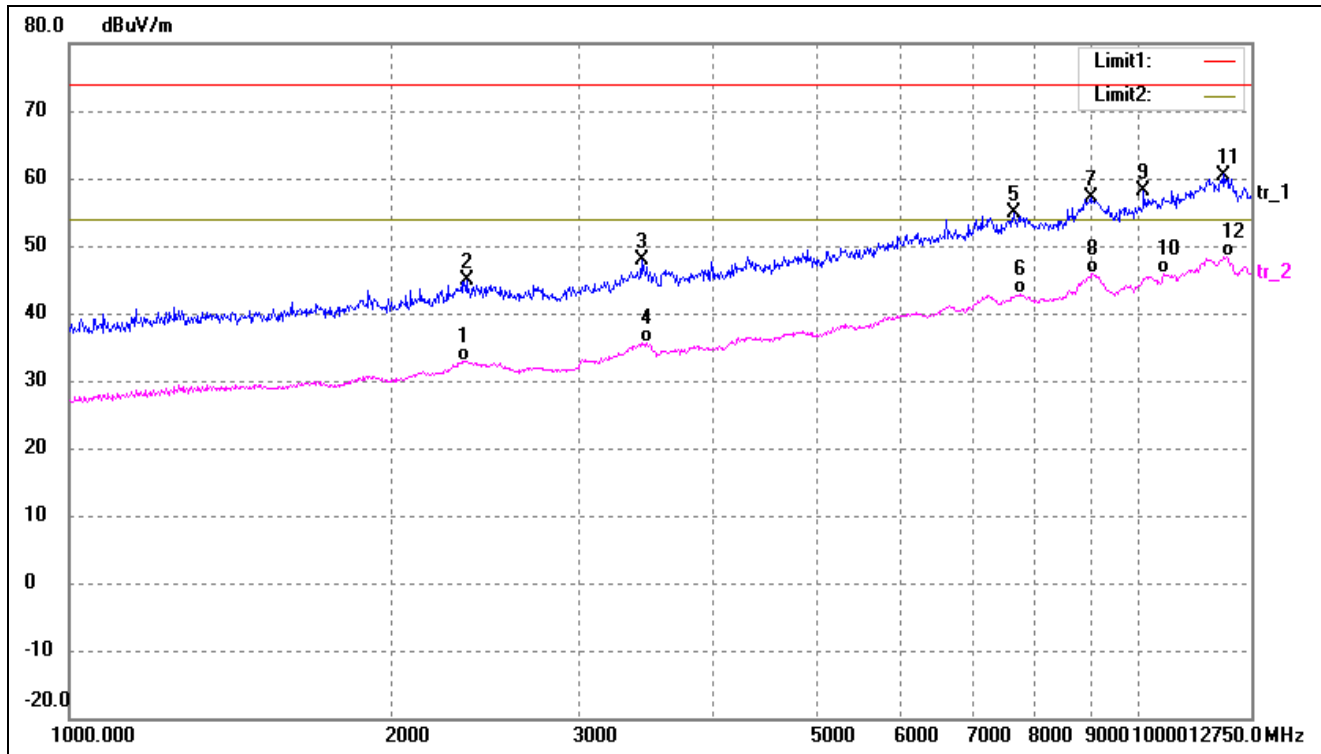
|            |     |           |          |
|------------|-----|-----------|----------|
| Test mode: | TM9 | Polarity: | Vertical |
|------------|-----|-----------|----------|



| No. | Frequency | Reading  | Correct | Result   | Limit    | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
|     | (MHz)     | (dBuV/m) | dB/m    | (dBuV/m) | (dBuV/m) | (dB)   | ( )    | (cm)   |        |
| 1   | 43.8119   | 26.87    | -7.88   | 18.99    | 40.00    | -21.01 | -      | -      | QP     |
| 2   | 60.9176   | 29.43    | -8.69   | 20.74    | 40.00    | -19.26 | -      | -      | QP     |
| 3   | 103.0800  | 27.27    | -8.45   | 18.82    | 43.50    | -24.68 | -      | -      | QP     |
| 4   | 290.0172  | 26.53    | -4.96   | 21.57    | 46.00    | -24.43 | -      | -      | QP     |
| 5   | 389.3549  | 28.98    | -2.83   | 26.15    | 46.00    | -19.85 | -      | -      | QP     |
| 6   | 645.1195  | 28.71    | 1.94    | 30.65    | 46.00    | -15.35 | -      | -      | QP     |

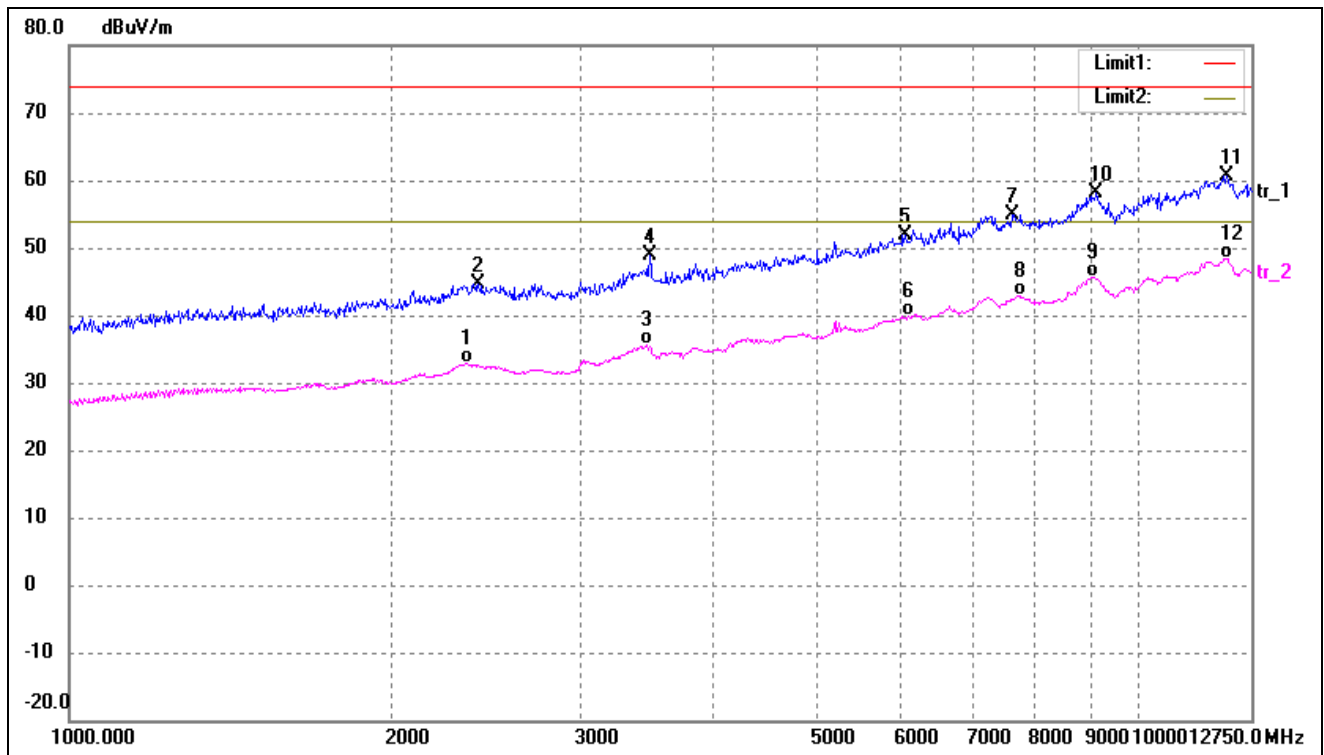
**Above 1GHz**

|            |                  |           |            |
|------------|------------------|-----------|------------|
| Test mode: | TM1 (worst case) | Polarity: | Horizontal |
|------------|------------------|-----------|------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 2340.132           | 41.57               | -8.66           | 32.91              | 54.00             | -21.09         | -             | -              | AVG    |
| 2   | 2352.076           | 53.56               | -8.62           | 44.94              | 74.00             | -29.06         | -             | -              | peak   |
| 3   | 3428.206           | 53.86               | -5.91           | 47.95              | 74.00             | -26.05         | -             | -              | peak   |
| 4   | 3472.118           | 41.39               | -5.75           | 35.64              | 54.00             | -18.36         | -             | -              | AVG    |
| 5   | 7643.682           | 51.26               | 3.54            | 54.80              | 74.00             | -19.20         | -             | -              | peak   |
| 6   | 7741.590           | 39.40               | 3.38            | 42.78              | 54.00             | -11.22         | -             | -              | AVG    |
| 7   | 9019.050           | 50.73               | 6.40            | 57.13              | 74.00             | -16.87         | -             | -              | peak   |
| 8   | 9065.084           | 39.64               | 6.22            | 45.86              | 54.00             | -8.14          | -             | -              | AVG    |
| 9   | 10113.669          | 51.99               | 6.23            | 58.22              | 74.00             | -15.78         | -             | -              | peak   |
| 10  | 10560.936          | 38.94               | 6.89            | 45.83              | 54.00             | -8.17          | -             | -              | AVG    |
| 11  | 12024.955          | 50.46               | 10.04           | 60.50              | 74.00             | -13.50         | -             | -              | peak   |
| 12  | 12086.331          | 38.51               | 9.87            | 48.38              | 54.00             | -5.62          | -             | -              | AVG    |

|            |                  |           |          |
|------------|------------------|-----------|----------|
| Test mode: | TM1 (worst case) | Polarity: | Vertical |
|------------|------------------|-----------|----------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>( ) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 2358.071           | 41.48               | -8.60           | 32.88              | 54.00             | -21.12         | -             | -              | AVG    |
| 2   | 2412.718           | 53.03               | -8.39           | 44.64              | 74.00             | -29.36         | -             | -              | peak   |
| 3   | 3472.118           | 41.34               | -5.75           | 35.59              | 54.00             | -18.41         | -             | -              | AVG    |
| 4   | 3489.840           | 54.61               | -5.68           | 48.93              | 74.00             | -25.07         | -             | -              | peak   |
| 5   | 6047.776           | 51.92               | 0.05            | 51.97              | 74.00             | -22.03         | -             | -              | peak   |
| 6   | 6094.137           | 39.78               | 0.12            | 39.90              | 54.00             | -14.10         | -             | -              | AVG    |
| 7   | 7624.250           | 51.42               | 3.56            | 54.98              | 74.00             | -19.02         | -             | -              | peak   |
| 8   | 7741.590           | 39.42               | 3.38            | 42.80              | 54.00             | -11.20         | -             | -              | AVG    |
| 9   | 9065.084           | 39.42               | 6.22            | 45.64              | 54.00             | -8.36          | -             | -              | AVG    |
| 10  | 9134.575           | 52.15               | 5.96            | 58.11              | 74.00             | -15.89         | -             | -              | peak   |
| 11  | 12086.331          | 50.71               | 9.87            | 60.58              | 74.00             | -13.42         | -             | -              | peak   |
| 12  | 12086.331          | 38.62               | 9.87            | 48.49              | 54.00             | -5.51          | -             | -              | AVG    |

Remark: '-' Means' the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

## APPENDIX PHOTOGRAPHS

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Please refer to “ANNEX”

\*\*\*\*\* END OF REPORT \*\*\*\*\*