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Report No. AA515161

Specifications FCC Part 15.231, Certification

Test Method | ANSI C63.4 1992

Applicant Gigabyte Technology Co. Ltd.

Applicant No. 6, Bau Chiang Road, Hsin-Tien, address Taipei Hsien, Taiwan 231, R.O.C.

Items tested Remote Pointer

Model No. GM-FPB

EUT Condition | Engineering sample; Pre-production; Final production

(Sample # AA5159)

Results Compliance (As detailed within this report)

Date 02/05/2004 (month / day / year) (Sample received)

02/05/2004 to 03/16/2004 (Test)

Prepared by

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Authorized by

General Manager
(Frank Tsai)

Issue date

March 29, 2004 (month / day / year)

Modifications None

Tested by Training Research Co., Ltd.

Office at No. 255, Nan Yang Street, Shijr, Taipei Hsien 221, Taiwan Chamber at 1F, No. 255, Nan Yang Street, Shijr, Taipei Hsien 221, Taiwan

Conditions of issue:

- (1) This test report shall not be reproduced except in full, without written approval of TRC. And the test result contained within this report only relate to the sample submitted for testing.
- (2) This test report, measurements made by TRC are traceable to the NIST only Conducted and Radiated Method.

★ FCC ID: JCKGMFPB-01

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Chapter 1 GENERAL

1.1 Introduction

The following measurement report is submitted on behalf of applicant in support of an International Periodic Radiator certification with Part 2 Subpart J and Part 15 Subpart A and C of the Commission's Rules and Regulations.

1.2 Description of EUT

EUT : Remote Pointer

Model No. : GM-FPB

FCC ID : JCKGMFPB-01

Frequency Range : $433.50 \text{MHz} \sim 434.45 \text{MHz}$

Operating Frequency : 433.92MHz

Modulation Skill : FSK

Power Type : Powered by 3V battery (Size AAA * 2)

The fundamental frequency of transmitter emitted is due to a press on button of the EUT. The emitting time of fundamental frequency is less than 5 seconds pursuant to FCC Part 15.231(a). There are security codes for avoiding the possibility of duplicating codes in adjacent systems. The coding must be matching with the companion receiver.

While testing the EUT was adjusted at a position, which transmits the maximum emission.

1.3 Description of Support Equipment

No support equipment:

The EUT itself forms a system. No support equipment is requited for its normal operation

1.4 Test Procedure

All measurements contained in this report were performed according to the techniques described in measurement procedure of ANSI C63.4 1992 section 13

1.5 Location of the Test Site

The radiated emissions measurements required by the rules were performed on the **three-meter**, **Anechoic Chamber (FCC Registration Number: 93906)** maintained by *Training Research Co., Ltd.* 1F, No. 255, Nan Yang Street, Hsi-chih, Taipei Hsien 221, Taiwan, R.O.C. Complete description and measurement data have been placed on file with the commission. The conducted power line emissions tests and other test items were performed in a anechoic chamber also located at Training Research Co., Ltd.

1F, No. 255, Nan Yang Street, Hsi-chih, Taipei Hsien 221, Taiwan, R.O.C. *Training Research Co., Ltd.* is listed by the FCC as a facility available to do measurement work for others on a contract basis.

1.6 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests were chosen as that which produced highest emission levels. However, only those conditions that the EUT was considered likely encounter in normal use were investigated.

In test, they were set in high power and continuously transmitting mode. The setting up procedure is recorded on 1.2 Test Description.

Chapter 2 TRANSMITTER DUTY CYCLE MEASUREMENTS

2.1 Test Condition and Setup

The duty cycle measurements were performed in a shielded enclosure. The EUT was placed on a wooded table which is 0.8 meters height and a bi-log periodic antenna was used distance about 3 meters for receiving. While testing EUT was set to transmit continuously. Various key configurations were also investigated to find the maximum duty cycle.

The resolution bandwidth and video bandwidth of the spectrum analyzer was all set to 1MHz to encompass all significant spectral components during the test. The analyzer operated in linear scale and zero span mode after tuning to the transmitter carrier frequency. The spectrum analyzer measured pules width. The pulse width was determined by the difference between the two half voltage points on a pulse.

The duty cycle was determined by the following equation:

Duty Cycle (%) =
$$\frac{\text{Total on interval in a complete pulse train}}{\text{Length of a complete pulse train}} \times 100\%$$

To calculate the actual field intensity, the duty cycle correction factor in decibel is needed for later use and be obtained from following conversion:

Duty Cycle Correction Factor (dB) = 20 X Log 10 Duty Cycle

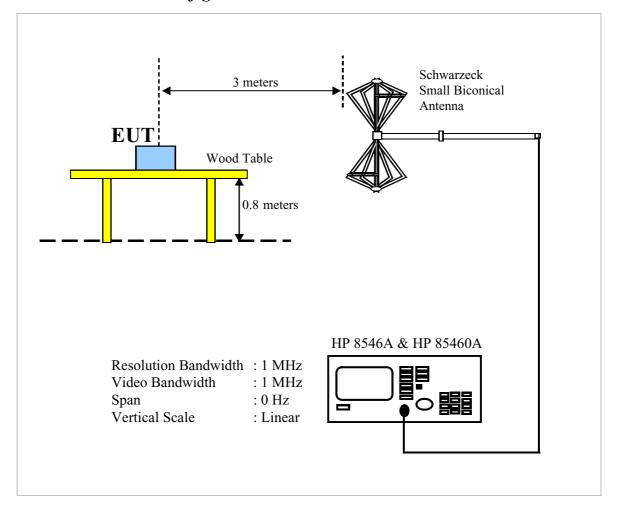
2.2 List of Test Instruments

| Instrument Name | Model No. | Brand | Serial No. | Last time | Next time |
|-------------------|-----------|---------|------------|-----------|-----------|
| EMI Receiver | 8546A | ΗP | 3520A00242 | 07/28/03 | 07/28/04 |
| RF Filter Section | 85460A | ΗP | 3448A00217 | 07/28/03 | 07/28/04 |
| Spectrum Analyzer | MS2665C | ANRITSU | 6200175476 | 09/30/03 | 09/30/04 |
| Bi-log Antenna | CBL 6141A | CHASE | 4206 | 05/27/03 | 05/27/04 |

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2.3 Test Instruments Configuration



2.4 Test Result

Following is the test result, which produce maximum duty cycle:

Total on interval in a complete pulse train

= 9.0 ms

Length of a complete pulse train

= 20.0 ms

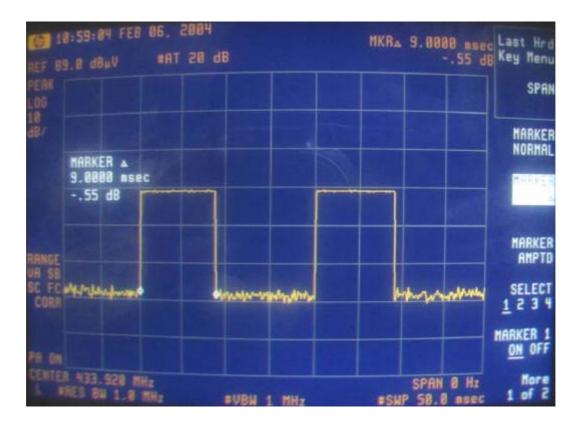
Duty Cycle (%) = 9 ms / 20 ms * 100% = 0.45

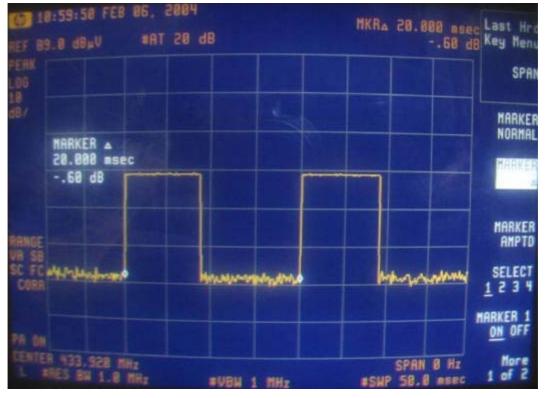
Duty Cycle Correction Factor (dB) = 20 * Log (0.45) = -6.936

A plot is attached on the following page.

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Duty Cycle Test Picture





Chapter 3 TRANSMITTER BANDWIDTH MEASUREMENTS, FCC PART 15.231(C)

3.1 Test Condition & Setup

The test setup used to transmitter bandwidth measurement was the same with duty cycle test, except there is no need for digital oscilloscope in the bandwidth test. For detailed description, please reference to section 2.1, 2.2 and 2.3 of this report.

The resolution bandwidth of the spectrum analyzer was set to 100 kHz, which is greater 5 percent of the maximum permitted bandwidth that required by the ANSI C63.4 section 13. Bandwidth is determined at the point 20 dB down from the modulator carrier. The maximum permitted bandwidth specified by the rule was 0.5% of the center frequency of the EUT, e.g. 433.92 MHz * 0.25% = 1.0848 MHz. The detector function was set to peak and hold mode to clearly observe the components.

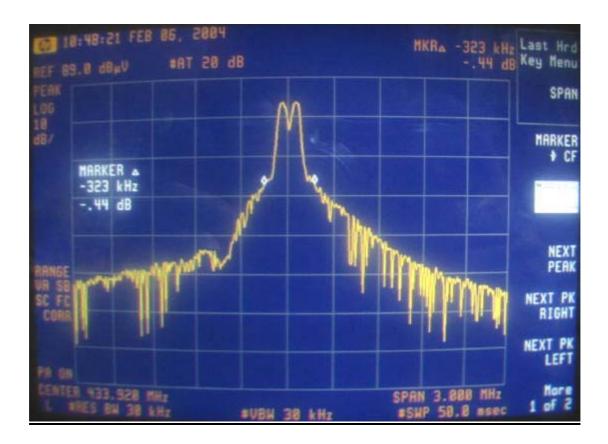
3.2 Test Result

Measured Transmitter Bandwidth: 323kHz Permitted Maximum Bandwidth: 1.0848MHz

A plot attached on the following page.

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Plot of the Transmitter Bandwidth Measurement



Chapter 4 CONDUCTED EMISSIONS MEASUREMENTS

4.1 Test Condition

The EUT operates solely by the battery (Size AAA batteries * 2). According to the rule of section 15.207(c). The EUT exempt to the power line conducted test.

4.2 Test Result

Test Result: N/A (not applicable)

Chapter 5 RADIATED EMISSIONS MEASUREMENTS

5.1 General Configuration

Prior to final testing, the EUT was placed in a three-meter annechoic chamber and scanned at a close distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration that produced the highest emissions was noted so it could be reproduced later during the final tests. This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT.

5.2 Test Condition and Setup

Final radiation measurements were made on a three-meter, annechoic chamber. The EUT was placed on a nonconductive turntable that is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 30MHz to 5GHz order to check the whole spectrum that could be generated from the EUT. During the test, EUT was set to transmit continuously and the switch was positioned to yield the maximum duty cycle that had measured before radiated emissions test. The test battery was a totally brand-new one.

A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarizations.

Note: Setting the EUT to transmit continuously was just for the testing

The field strength below 1GHz was measured by SCHWARZECK Small Biconical Antenna (model: UBAA9114 with BBVU9135) at 3 meter, and the EMCO Double Ridged Guide Antenna (model: 3115) was used in frequencies 1 ~ 4.5GHz at a distance of 3 meter.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post-detector video filters were used in the test. The spectrum analyzer's 6dB bandwidth was set to 3 M and the spectrum was operated in the peak detection mode, for frequencies both below and up 1GHz. The peak levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 micro-volt ($dB\mu V$) into field intensity in micro-volts pre meter ($\mu V/m$).

(1) The actual field intensity in decibels referenced to 1 micro-volt per meter ($dB\mu V/m$) is determined by algebraically adding the measured reading in $dB\mu V$, the correction factor(dB), duty cycle correction factor (dB), and distance extrapolation factor (dB) at the appropriate frequency:

30 MHz ~ 1GHz:

Correction factor = Antenna factor + (Cable loss - Amplitude gain)

Peak Value = Reading Amplitude + Correction Factors

True Value = Peak Value + Duty Cycle

Above 1GHz

Correction Factors = Antenna Factor + (Cable Loss – Amplifier Gain)

Peak Value = Reading Amplitude + Correction Factors

True Value = Peak Value + Duty Cycle

(2) The field intensity in micro-volts per meter can then be determined by the following equation:

$$FI(\mu V/\ m)=10^{FI\ (dB_\mu V/\ m)\ /\ 20}$$

The FCC specified emission limits were calculated according the EUT operating frequency and obtained by following linear interpolation equations:

| Fundamental Frequency (MHz) | Field strength of fundamental (microvolts / meter) | Field strength of spurious emissions (microvolts / meter) |
|-----------------------------------|--|---|
| 40.66 – 40.70 | 2,250 | 225 |
| 70 – 130 | 1,250 | 125 |
| 130 – 174 | * 1,250 to 3,750 | * 125 to 375 |
| 174 – 260 | 3,750 | 375 |
| 260 – 470 | * 3,750 to 12,500 | * 375 to 1,250 |
| Above 470 | 12,500 | 1,250 |

Note: The "*" means linear interpolations

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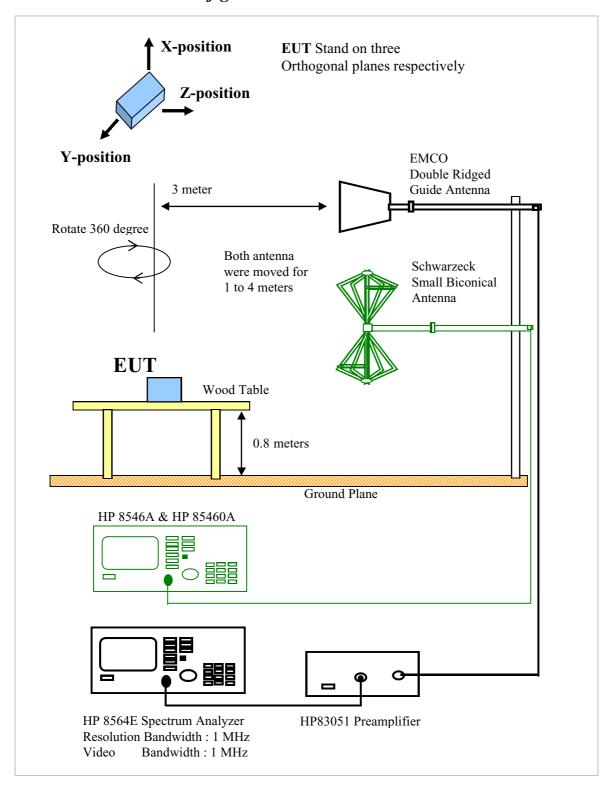
5.3 List of Test Instruments

Calibration Date

| | T | 1 | 1 | Calibrat | ion Date |
|---|----------------------|------------|------------|-----------|-----------|
| Instrument Name | Model No <u>.</u> | Brand | Serial No. | Last time | Next time |
| EMI Receiver | 8546A | HP | 3520A00242 | 07/28/03 | 07/28/04 |
| RF Filter Section | 85460A | HP | 3448A00217 | 07/28/03 | 07/28/04 |
| Small Biconical | UBAA9114 & | SCHWARZECK | 127 | 06/21/03 | 06/21/04 |
| Antenna | BBVU9135 | | | | |
| Pre-amplifier | PA1F | TRC | 1FAC | 05/20/03 | 05/20/04 |
| Auto Switch Box (>30MHz) | ASB-01 | TRC | 9904-01 | 05/20/03 | 05/20/04 |
| Coaxial Cable (Double shielded, 15 meter) | A30A30-0058-50FS-15M | JYEBAO | SMA-01 | 05/20/03 | 05/20/04 |
| Coaxial Cable (1.1 meter) | A30A30-0058-50FS-1M | ЈҮЕВАО | SMA-02 | 05/20/03 | 05/20/04 |
| Spectrum Analyzer | 8564E | НР | 3720A00840 | 07/23/03 | 07/23/04 |
| Microwave Preamplifier | 84125C | НР | US36433002 | 07/30/03 | 07/30/04 |
| Horn Antenna | 3115 | EMCO | 9104-3668 | 12/18/03 | 12/18/04 |
| Standard Guide Horn Antenna | 84125-80008 | НР | 18-26.5GHz | 09/18/03 | 09/18/04 |
| Standard Guide Horn Antenna | 84125-80001 | НР | 26.5-40GHz | 09/18/03 | 09/18/04 |
| Pre-amplifier | 84125C | НР | US36433002 | 11/19/03 | 11/19/04 |
| Horn Antenna | 1196E (3115) | HP (EMCO) | 9704-5178 | 12/12/03 | 12/12/04 |
| Pre-amplifier | PA2F | TRC | 2F1GZ | 05/20/03 | 05/20/04 |
| Coaxial Cable (3 miter) | A30A30-0058-50FST118 | JYEBAO | MSA-05 | 05/20/03 | 05/20/04 |
| Coaxial Cable (1 meter) | A30A30-0058-50FST118 | JYEBAO | MSA-04 | 05/20/03 | 05/20/04 |

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5.4 Test Instruments Configuration



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5.5 Test Result of Radiated Emissions

The highest peak values of radiated emissions form the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

Test Conditions: Testing Room: Temperature: 25 ° C Humidity: 73 % RH

Table 1 Radiated Emissions of Horizontal for 30MHz to 4.5GHz [X-axis]

| Radiated Emission | | | | CF | Peak Value | Duty Cycle | True Value | Class | В |
|----------------------|---------------------|-------------|-------|-------|---------------|---------------|---------------|-------------------|----------------|
| Frequency (MHz) | Amplitude (dBµV) | Ant. H. (m) | Angle | (dB) | (dBµV/m) | (dB) | (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
| 433.92 | 67.25 | 1.00 | 253 | 1.69 | 68.94 | -6.93 | 62.01 | 80.82 | -18.81 |
| 867.73 | 26.10 | 1.00 | 18 | 15.96 | 42.06 | -6.93 | 35.13 | 60.82 | -25.69 |
| *1303.33 | 37.24 | 1.00 | 120 | 0.79 | 38.03 | -6.93 | 31.10 | 53.96 | -22.86 |
| 2169.58 | 34.08 | 1.00 | 144 | 5.21 | 39.29 | -6.93 | 32.36 | 60.82 | -28.46 |
| 2601.25 | 35.57 | 1.00 | 259 | 7.61 | 43.18 | -6.93 | 36.25 | 60.82 | -24.57 |
| 3035.83 | 31.74 | 1.00 | 288 | 9.28 | 41.02 | -6.93 | 34.09 | 60.82 | -26.73 |
| *3905.00 | 30.74 | 1.00 | 14 | 12.01 | 42.75 | -6.93 | 35.82 | 53.96 | -18.14 |
| 4339.58 | 28.91 | 1.00 | 189 | 12.92 | 41.83 | -6.93 | 34.90 | 60.82 | -25.92 |

Table 2 Radiated Emissions of Vertical for 30MHz to 4.5GHz [X-axis]

| | CF | Peak Value | Duty Cycle | True Value | Class | В | | | |
|-----------------|---------------------|---------------|---------------|---------------|----------|-------|----------|-------------------|----------------|
| Frequency (MHz) | Amplitude (dBµV) | Ant. H. (m) | Angle | (dB) | (dBµV/m) | (dB) | (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
| 433.92 | 81.65 | 1.00 | 319 | 1.69 | 83.34 | -6.93 | 76.41 | 80.82 | -4.41 |
| 867.73 | 28.88 | 2.51 | 286 | 15.96 | 44.84 | -6.93 | 37.91 | 60.82 | -22.91 |
| *1303.33 | 33.74 | 1.00 | 110 | 0.79 | 34.53 | -6.93 | 27.60 | 53.96 | -26.36 |
| 2169.58 | 33.08 | 1.00 | 194 | 5.21 | 38.29 | -6.93 | 31.36 | 60.82 | -29.46 |
| 2601.25 | 32.24 | 1.00 | 296 | 7.61 | 39.85 | -6.93 | 32.92 | 60.82 | -27.90 |
| 3038.75 | 29.41 | 1.00 | 201 | 9.29 | 38.70 | -6.93 | 31.77 | 60.82 | -29.05 |
| 3470.42 | 29.07 | 1.00 | 43 | 10.35 | 39.42 | -6.93 | 32.49 | 60.82 | -28.33 |
| *3905.00 | 31.24 | 1.00 | 74 | 12.01 | 43.25 | -6.93 | 36.32 | 53.96 | -17.64 |
| *4339.58 | 29.74 | 1.00 | 77 | 12.92 | 42.66 | -6.93 | 35.73 | 53.96 | -18.23 |

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Table 3 Radiated Emissions of Horizontal for 30MHz to 4.5GHz [Y-axis]

| Radiated Emission | | | | | Peak Value | Duty Cycle | True Value | Class | В |
|----------------------|------------------|-------------|-------|-------|---------------|---------------|---------------|-------------------|-------------|
| Frequency (MHz) | Amplitude (dBµV) | Ant. H. (m) | Angle | (dB) | (dBµV/m) | (dB) | (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
| 433.92 | 76.50 | 1.00 | 291 | 1.69 | 78.19 | -6.93 | 71.26 | 80.82 | -9.56 |
| 868.44 | 29.28 | 1.00 | 306 | 15.99 | 45.27 | -6.93 | 38.34 | 60.82 | -22.48 |
| *1300.42 | 36.74 | 1.00 | 177 | 0.80 | 37.54 | -6.93 | 30.61 | 53.96 | -23.35 |
| 2601.25 | 31.24 | 1.00 | 123 | 7.61 | 38.85 | -6.93 | 31.92 | 60.82 | -28.90 |
| 3035.83 | 31.41 | 1.00 | 266 | 9.28 | 40.69 | -6.93 | 33.76 | 60.82 | -27.06 |

Table 4 Radiated Emissions of Vertical for 30MHz to 4.5GHz [Y-axis]

| Radiated Emission | | | | CF | Peak Value | Duty Cycle | True Value | Class | В |
|----------------------|------------------|-------------|-------|-------|---------------|---------------|---------------|-------------------|-------------|
| Frequency (MHz) | Amplitude (dBµV) | Ant. H. (m) | Angle | (dB) | (dBµV/m) | (dB) | (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
| 433.92 | 78.42 | 1.00 | 309 | 1.69 | 80.11 | -6.93 | 73.18 | 80.82 | -7.64 |
| 867.73 | 31.48 | 1.00 | 261 | 15.96 | 47.44 | -6.93 | 40.51 | 60.82 | -20.31 |
| *1303.33 | 36.40 | 1.00 | 182 | 0.79 | 37.19 | -6.93 | 30.26 | 53.96 | -23.70 |
| 2169.58 | 33.24 | 1.00 | 142 | 5.21 | 38.45 | -6.93 | 31.52 | 60.82 | -29.30 |
| 2601.25 | 35.57 | 1.00 | 282 | 7.61 | 43.18 | -6.93 | 36.25 | 60.82 | -24.57 |
| 3035.83 | 31.91 | 1.00 | 46 | 9.28 | 41.19 | -6.93 | 34.26 | 60.82 | -26.56 |
| *3905.00 | 31.74 | 1.00 | 10 | 12.01 | 43.75 | -6.93 | 36.82 | 53.96 | -17.14 |

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Table 5 Radiated Emissions of Horizontal for 30MHz to 4.5GHz [Z-axis]

| Radiated Emission | | | CF | Peak Value | Duty Cycle | True Value | Class | В | |
|----------------------|------------------|-------------|-------|---------------|---------------|---------------|----------|-------------------|----------------|
| Frequency (MHz) | Amplitude (dBµV) | Ant. H. (m) | Angle | (dB) | (dBµV/m) | (dB) | (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
| 433.92 | 79.21 | 1.00 | 183 | 1.69 | 80.90 | -6.93 | 73.97 | 80.82 | -6.85 |
| 868.44 | 31.60 | 1.00 | 351 | 15.99 | 47.59 | -6.93 | 40.66 | 60.82 | -20.16 |
| *1303.33 | 33.40 | 1.00 | 129 | 0.79 | 34.19 | -6.93 | 27.26 | 53.96 | -26.70 |
| 2169.58 | 34.41 | 1.00 | 155 | 5.21 | 39.62 | -6.93 | 32.69 | 60.82 | -28.13 |
| 2601.25 | 36.41 | 1.00 | 244 | 7.61 | 44.02 | -6.93 | 37.09 | 60.82 | -23.73 |
| 3470.42 | 32.74 | 1.00 | 129 | 10.35 | 43.09 | -6.93 | 36.16 | 60.82 | -24.66 |
| *3905.00 | 32.57 | 1.00 | 6 | 12.01 | 44.58 | -6.93 | 37.65 | 53.96 | -16.31 |

Table 6 Radiated Emissions of Vertical for 30MHz to 4.5GHz [Z-axis]

| | CF | Peak Value | Duty Cycle | True Value | Class | В | | | |
|--------------------|------------------|---------------|---------------|---------------|----------|-------|----------|-------------------|-------------|
| Frequency (MHz) | Amplitude (dBµV) | Ant. H. (m) | Angle | (dB) | (dBµV/m) | (dB) | (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
| 433.92 | 76.55 | 1.00 | 306 | 1.69 | 78.24 | -6.93 | 71.31 | 80.82 | -9.51 |
| 868.44 | 30.30 | 1.00 | 79 | 15.99 | 46.29 | -6.93 | 39.36 | 60.82 | -21.46 |
| *1303.33 | 36.74 | 1.00 | 32 | 0.79 | 37.53 | -6.93 | 30.60 | 53.96 | -23.36 |
| 2169.58 | 32.08 | 1.00 | 189 | 5.21 | 37.29 | -6.93 | 30.36 | 60.82 | -30.46 |
| 2601.25 | 31.07 | 1.00 | 202 | 7.61 | 38.68 | -6.93 | 31.75 | 60.82 | -29.07 |

Note:

- 1. Margin = Amplitude limit, *if margin is minus means under limit*.
- 2. Correction factor = Antenna factor + (Cable Loss Amplitude gain) + Switching Box Loss
- 3. Peak Value = Reading Amplitude + Correction Factors
- 4. True Value = Peak Value + Duty Cycle
- 5. The "*" means in restricted bands