



# FCC PART 15B, CLASS B TEST REPORT

For

## AIN TECHNOLOGY (SHENZHEN) CO.,LTD

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FCC ID: 2ALPWAS-500

Report Type:
Original Report

Wireless Motion Alert

Report Number: RSZ170726001-00A

**Report Date:** 2017-09-21

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#### **GENERAL INFORMATION**

#### **Product Description for Equipment under Test (EUT)**

The *AIN TECHNOLOGY (SHENZHEN) CO.,LTD's* product, model number: *AS-500 (FCC ID: 2ALPWAS-500)* or the "EUT" in this report was a *Wireless Motion Alert*, which was measured approximately: 128.5 mm (L) × 86 mm (W) × 26 mm (H), rated with input voltage: DC 9V from adapter or DC 1.5V\*4 AAA from battery. The highest operating frequency is 433 MHz.

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Adapter information: Model: GA090008

Input: AC 100~240V, 50/60Hz, 0.30A

Output: DC 9.0V, 0.8A

\*All measurement and test data in this report was gathered from production sample serial number: 1701777-1 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2017-07-27.

#### **Objective**

This test report is prepared on behalf of *AIN TECHNOLOGY (SHENZHEN) CO.,LTD* in accordance with Part 2-Subpart J, Part 15-Subparts A, B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15 B.

#### Related Submittal(s)/Grant(s)

FCC PART 15.231 DSC submissions with FCC ID: 2ALPWAST-40.

#### **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.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

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#### **Measurement Uncertainty**

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

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Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will be taken into consideration for the test data recorded in the report

| Item                              |                                 |  | Expanded Measurement uncertainty       |
|-----------------------------------|---------------------------------|--|--|
| AC Power Line Conducted Emissions |                                 | 2.20 dB (k=2, 95% level of confidence) |  |
|                                   | 30MHz~200MHz                    | Horizontal                             | 4.58 dB (k=2, 95% level of confidence) |
|                                   | 30MHZ~200MHZ                    | Vertical                               | 4.59 dB (k=2, 95% level of confidence) |
| Radiated emission                 | 200MHz~1 GHz                    | Horizontal                             | 4.83 dB (k=2, 95% level of confidence) |
|                                   |                                 | 200MHZ~1 GHZ                           | Vertical                               |
|                                   | 1 GHz~6 GHz Horizontal/Vertical |  | 4.08 dB (k=2, 95% level of confidence) |

#### **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

Bay Area Compliance Laboratories Corp. (Shenzhen) has been accredited to ISO/IEC 17025 by CNAS(Lab code: L2408). And accredited to ISO/IEC 17025 by NVLAP(Lab code: 200707-0), the FCC Designation No. CN5001 under the KDB 974614 D01.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Bay Area Compliance Laboratories Corp. (Shenzhen) was registered with ISED Canada under ISED Canada Registration Number 3062B.

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## **SYSTEM TEST CONFIGURATION**

#### **Description of Test Configuration**

The system was configured for testing in a manufacturer testing fashion.

EUT operation mode: Alerting while receiving the signal of 433 MHz transmitted by the Detector

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#### **EUT Exercise Software**

No exercise software was used.

#### **Special Accessories**

No special accessory.

### **Equipment Modifications**

No modification was made to the EUT tested.

#### **Support Equipment List and Details**

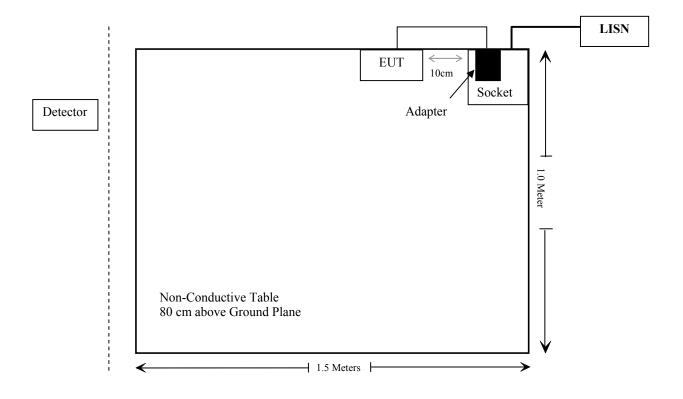
| Manufacturer | Description | Model   | Serial Number |
|--------------|-------------|---------|---------------|
| BULL         | Socket      | GN-415K | 5503290068073 |
| NANFU        | Battery     | 5       | N/A           |
| AIN          | Detector    | ASR-01  | N/A           |

#### **External I/O Cable**

| Cable Description                   | Length (m) | From/Port | То   |
|-------------------------------------|------------|-----------|------|
| Un-shielding Un-detachable DC Cable | 1.16       | Adapter   | EUT  |
| Un-shielding Un-detachable AC Cable | 1.6        | Socket    | LISN |

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## **Block Diagram of Test Setup**



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## SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test Result  |            |
|-----------|-----------------------------|------------|
| §15.107   | AC Line Conducted Emissions | Compliance |
| §15.109   | Radiated Spurious Emissions | Compliance |

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## TEST EQUIPMENT LIST

| Manufacturer    | Description        | Model             | Serial Number              | Calibration<br>Date | Calibration<br>Due Date |
|-----------------|--------------------|-------------------|----------------------------|---------------------|-------------------------|
|                 | AC Li              | ne Conducted En   | nission Test               |                     |                         |
| Rohde & Schwarz | EMI Test Receiver  | ESCS30            | 100176                     | 2016-10-19          | 2017-10-19              |
| Rohde & Schwarz | LISN               | ENV216            | 3560.6650.12-<br>101613-Yb | 2016-12-07          | 2017-12-07              |
| Rohde & Schwarz | Transient Limiter  | ESH3Z2            | DE25985                    | 2017-05-21          | 2017-11-19              |
| Rohde & Schwarz | CE Test software   | EMC 32            | V8.53.0                    | NCR                 | NCR                     |
|                 | F                  | Radiated Emission | n Test                     |                     |                         |
| HP              | Amplifier          | HP8447E           | 1937A01046                 | 2017-05-21          | 2017-11-19              |
| Rohde & Schwarz | EMI Test Receiver  | ESCI              | 101120                     | 2016-12-07          | 2017-12-07              |
| Sunol Sciences  | Bi-log Antenna     | JB1               | A040904-2                  | 2014-12-17          | 2017-12-17              |
| R&S             | Auto test Software | EMC32             | V9.10                      | NCR                 | NCR                     |
| Mini            | Pre-Amplifier      | ZVA-183-S+        | 5969001149                 | 2017-05-21          | 2018-05-21              |
| A.H.System      | Horn Antenna       | SAS-200/571       | 135                        | 2015-08-18          | 2018-08-17              |
| Rohde & Schwarz | Signal Analyzer    | FSIQ26            | 8386001028                 | 2017-04-24          | 2018-04-24              |
| R&S             | Auto test Software | EMC32             | V9.10                      | NCR                 | NCR                     |

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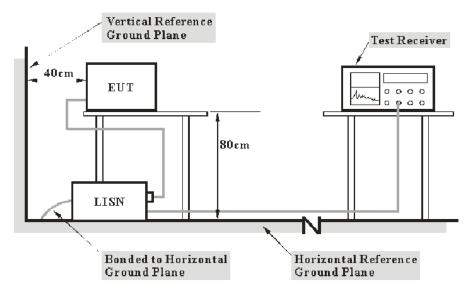
<sup>\*</sup> **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

## FCC §15.107 - AC LINE CONDUCTED EMISSIONS

#### **Applicable Standard**

According to FCC §15.107

#### **EUT Setup**



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

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

The measurement procedure of EUT setup is according with per ANSI C63.4-2014. The related limit was specified in FCC Part 15.107 Class B.

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.

#### **EMI Test Receiver Setup**

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range  | IF B/W |  |
|------------------|--------|--|
| 150 kHz – 30 MHz | 9 kHz  |  |

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#### **Test Procedure**

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

#### **Corrected Factor & Margin Calculation**

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

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Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

#### **Test Results Summary**

According to the recorded data in following table, the EUT complied with the FCC Part 15.107,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL.,  $U_{(Lm)}$  is less than  $U_{\text{cispr}}$ , if  $L_{\text{m}}$  is less than  $L_{\text{lim}}$ , it implies that the EUT complies with the limit.

#### **Test Data**

#### **Environmental Conditions**

| Temperature:       | 25 ℃      |
|--------------------|-----------|
| Relative Humidity: | 50 %      |
| ATM Pressure:      | 101.0 kPa |

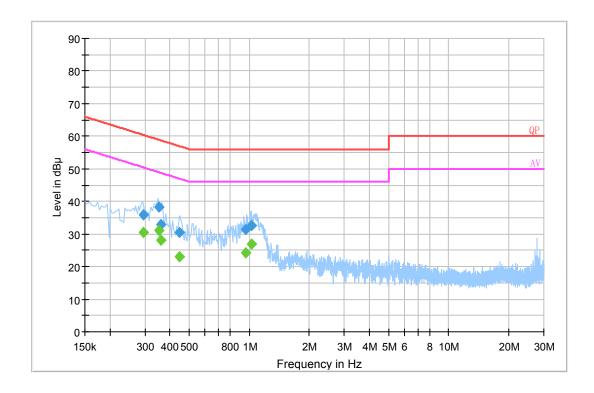
The testing was performed by Joson Xiao on 2017-09-21.

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EUT Operation Mode: Alerting while receiving the signal of 433 MHz transmitted by the Detector

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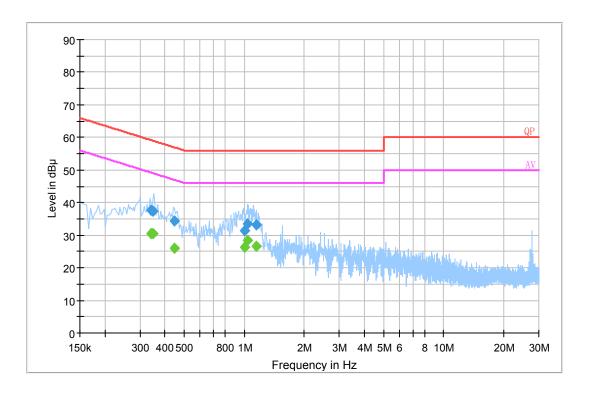
#### AC 120V/60 Hz, Line



| Frequency (MHz) | Corrected<br>Amplitude<br>(dBµV) | Correction<br>Factor<br>(dB) | Limit<br>(dBµV) | Margin<br>(dB) | Detector<br>(PK/Ave./QP) |
|-----------------|----------------------------------|------------------------------|-----------------|----------------|--------------------------|
| 0.293500        | 35.8                             | 20.2                         | 60.4            | 24.6           | QP                       |
| 0.352750        | 38.4                             | 20.2                         | 58.9            | 20.5           | QP                       |
| 0.360510        | 33.0                             | 20.2                         | 58.7            | 25.7           | QP                       |
| 0.447310        | 30.5                             | 20.2                         | 56.9            | 26.4           | QP                       |
| 0.963510        | 31.2                             | 20.1                         | 56.0            | 24.8           | QP                       |
| 1.030670        | 32.6                             | 20.1                         | 56.0            | 23.4           | QP                       |
| 0.293500        | 30.6                             | 20.2                         | 50.4            | 19.8           | Ave.                     |
| 0.352750        | 31.1                             | 20.2                         | 48.9            | 17.8           | Ave.                     |
| 0.360510        | 28.0                             | 20.2                         | 48.7            | 20.7           | Ave.                     |
| 0.447310        | 22.9                             | 20.2                         | 46.9            | 24.0           | Ave.                     |
| 0.963510        | 24.4                             | 20.1                         | 46.0            | 21.6           | Ave.                     |
| 1.030670        | 26.9                             | 20.1                         | 46.0            | 19.1           | Ave.                     |

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#### AC 120V/60 Hz, Neutral



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| Frequency (MHz) | Corrected<br>Amplitude<br>(dBµV) | Correction<br>Factor<br>(dB) | Limit<br>(dBµV) | Margin<br>(dB) | Detector<br>(PK/Ave./QP) |
|-----------------|----------------------------------|------------------------------|-----------------|----------------|--------------------------|
| 0.340930        | 37.8                             | 20.2                         | 59.2            | 21.4           | QP                       |
| 0.348690        | 37.2                             | 20.2                         | 59.0            | 21.8           | QP                       |
| 0.448630        | 34.5                             | 20.2                         | 56.9            | 22.4           | QP                       |
| 1.003030        | 31.5                             | 20.1                         | 56.0            | 24.5           | QP                       |
| 1.034370        | 33.4                             | 20.1                         | 56.0            | 22.6           | QP                       |
| 1.152690        | 33.1                             | 20.1                         | 56.0            | 22.9           | QP                       |
| 0.340930        | 30.5                             | 20.2                         | 49.2            | 18.7           | Ave.                     |
| 0.348690        | 30.4                             | 20.2                         | 49.0            | 18.6           | Ave.                     |
| 0.448630        | 25.9                             | 20.2                         | 46.9            | 21.0           | Ave.                     |
| 1.003030        | 26.3                             | 20.1                         | 46.0            | 19.7           | Ave.                     |
| 1.034370        | 28.3                             | 20.1                         | 46.0            | 17.7           | Ave.                     |
| 1.152690        | 26.6                             | 20.1                         | 46.0            | 19.4           | Ave.                     |

- 1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
  3) Margin = Limit Corrected Amplitude

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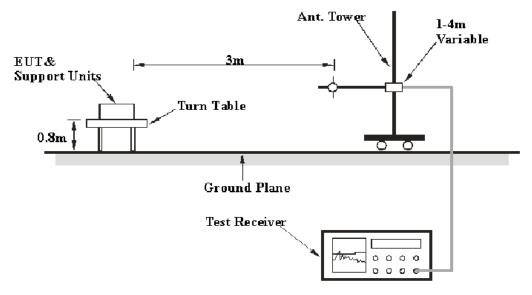
## FCC §15.109 - RADIATED SPURIOUS EMISSIONS

#### **Applicable Standard**

FCC §15.109

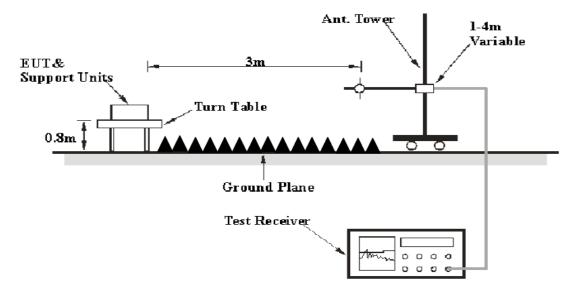
#### **EUT Setup**

**Below 1GHz:** 



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#### **Above 1GHz:**



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

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

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The spacing between the peripherals was 10 cm.

#### **EMI Test Receiver Setup**

The system was investigated from 30 MHz to 2 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

| Frequency Range   | RBW     | Video B/W | IF B/W  | Detector |
|-------------------|---------|-----------|---------|----------|
| 30 MHz – 1000 MHz | 100 kHz | 300 kHz   | 120 kHz | QP       |
| Above 1 GHz       | 1MHz    | 3 MHz     | /       | PK       |
| Above I GHZ       | 1MHz    | 10 Hz     | /       | Ave.     |

#### **Test Procedure**

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and Peak and average detector modes for frequencies above 1 GHz.

#### **Corrected Amplitude & Margin Calculation**

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

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

#### **Test Results Summary**

According to the data in the following table, the EUT complied with the FCC §15.109 Class B,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL,  $U_{(Lm)}$  is less than  $U_{cispr}$ , if  $L_m$  is less than  $L_{lim}$ , it implies that the EUT complies with the limit.

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#### **Test Data**

#### **Environmental Conditions**

| Temperature:       | 25 ℃      |
|--------------------|-----------|
| Relative Humidity: | 50 %      |
| ATM Pressure:      | 101.0 kPa |

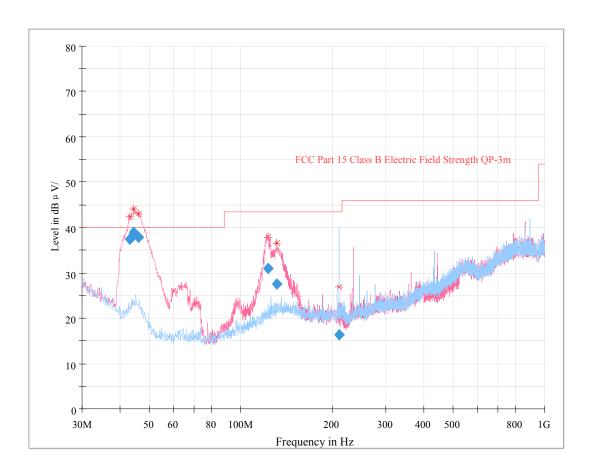
The testing was performed by Joson Xiao on 2017-09-21.

EUT Operation Mode: Alerting while receiving the signal of 433 MHz transmitted by the Detector

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30 MHz~1 GHz



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| Frequency<br>(MHz) | Corrected<br>Amplitude<br>(dBµV/m) | Antenna<br>height<br>(cm) | Antenna<br>Polarity | Turntable position (degree) | Correction<br>Factor<br>(dB/m) | Limit<br>(dBµV/m) | Margin<br>(dB) |
|--------------------|------------------------------------|---------------------------|---------------------|-----------------------------|--------------------------------|-------------------|----------------|
| 42.947375          | 37.38                              | 100.0                     | V                   | 312.0                       | -8.3                           | 40.00             | 2.62           |
| 44.423000          | 39.01                              | 106.0                     | V                   | 341.0                       | -9.4                           | 40.00             | 0.99           |
| 45.933125          | 37.86                              | 109.0                     | V                   | 323.0                       | -10.1                          | 40.00             | 2.14           |
| 122.473625         | 31.02                              | 107.0                     | V                   | 67.0                        | -5.7                           | 43.50             | 12.48          |
| 131.607750         | 27.53                              | 116.0                     | V                   | 108.0                       | -5.0                           | 43.50             | 15.97          |
| 210.484000         | 16.34                              | 400.0                     | Н                   | 49.0                        | -6.0                           | 43.50             | 26.66          |

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#### **Above 1 GHz**

| Frequency<br>(MHz) | Receiver       |                          |     | Rx Antenna |                  | Corrected   | Corrected          | FCC PART 15B      |                |
|--------------------|----------------|--------------------------|-----|------------|------------------|-------------|--------------------|-------------------|----------------|
|                    | Reading (dBµV) | Detector<br>(PK/QP/Ave.) |     | Height     | Polar<br>(H / V) | Factor (dB) | Amplitude (dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
| 1762.27            | 42.86          | PK                       | 87  | 1.4        | Н                | -5.22       | 37.64              | 74                | 36.36          |
| 1762.27            | 29.03          | Ave.                     | 87  | 1.4        | Н                | -5.22       | 23.81              | 54                | 30.19          |
| 1750.63            | 43.44          | PK                       | 23  | 1.1        | V                | -5.22       | 38.22              | 74                | 35.78          |
| 1750.63            | 31.59          | Ave.                     | 23  | 1.1        | V                | -5.22       | 26.37              | 54                | 27.63          |
| 1313.15            | 43.89          | PK                       | 335 | 1.7        | Н                | -8.04       | 35.85              | 74                | 38.15          |
| 1313.15            | 29.41          | Ave.                     | 335 | 1.7        | Н                | -8.04       | 21.37              | 54                | 32.63          |
| 1307.08            | 42.90          | PK                       | 88  | 2.1        | V                | -8.04       | 34.86              | 74                | 39.14          |
| 1307.08            | 29.37          | Ave.                     | 88  | 2.1        | V                | -8.04       | 21.33              | 54                | 32.67          |

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#### Note:

- 1) Correction Factor=Antenna factor (RX) + cable loss amplifier factor
- 2) Corrected Amplitude = Correction Factor + Reading
   3) Margin = Limit Corrected Amplitude

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

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