

FCC PART 22H, PART 24E MEASUREMENT AND TEST REPORT

For

Fujian Landi Commercial Equipment Co., Ltd.

No.68, Hong Shan Yuan Road, Gulou District, Fuzhou Municipality, Fujian Province, P.R. China.

FCC ID: 2AG6N-E830RFWD

Report Type:
Original Report

Wireless POS Terminal

Test Engineer: Lion Xiao

Report Number: RXM151218051-00C

Report Date: 2016-01-07

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Test Laboratory:

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Fujian Landi Commercial Equipment Co., Ltd.'s product, model number: E830 (FCC ID: 2AG6N-E830RFWD) or ("EUT") in this report is a Wireless POS Terminal, which was measured approximately: 18.9 cm (L) x 8.1 cm (W) x 6.6 cm (H), rated input voltage: DC9V from adapter.

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Adapter Information:

MODEL: HKA00909010-8F INPUT: 100-240V~50/60Hz 0.3A

OUTPUT: 9.0V, 1.0A

All measurement and test data in this report was gathered from production sample serial number: 151218051 (Assigned by BACL, Dongguan). The EUT was received on 2015-12-25.

Objective

This report is prepared on behalf of *Fujian Landi Commercial Equipment Co.*, *Ltd.* in accordance with: Part 2-Subpart J, Part 22-Subpart H, and Part 24-Subpart E of the Federal Communications Commission's rules.

The objective is to determine compliance with FCC rules for output power, modulation characteristic, occupied bandwidth, spurious emissions at antenna terminal, spurious radiated emission, frequency stability and band edge.

Related Submittal(s)/Grant(s)

FCC Part 15C DXX submissions with FCC ID: 2AG6N-E830RFWD. FCC Part 15B JBP submissions with FCC ID: 2AG6N-E830RFWD.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services

Part 24 Subpart E - Personal Communication Services

Applicable Standards: TIA/EIA-603-D-2010.

All radiated and conducted emissions measurements were performed at Bay Area Compliance Laboratories Corp.(Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 06, 2015.

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The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Justification

The EUT was configured for testing according to TIA/EIA-603-D-2010.

The test items were performed with the EUT operating at testing mode.

Equipment Modifications

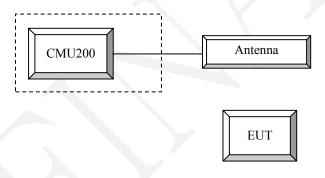
No modification was made to the EUT.

Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|--------------------------------------|--------|---------------|
| R&S | Universal Radio Communication Tester | CMU200 | 109038 |
| N/A | ANTENNA | N/A | N/A |

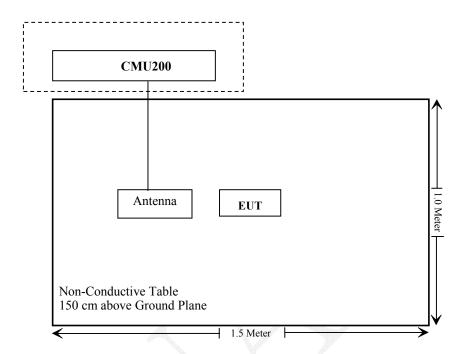
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Configuration of Test Setup



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Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result | |
|---|--|----------------|--|
| §1.1310, §2.1091 | MaximuM Permissible exposure (MPE) | Compliance | |
| \$2.1046; \$ 22.913 (a); \$ 24.232 (c) | RF Output Power | Compliance | |
| § 2.1047 | Modulation Characteristics | Not Applicable | |
| § 2.1049; § 22.905 § 22.917; § 24.238 | Occupied Bandwidth | Compliance* | |
| § 2.1051, § 22.917 (a); § 24.238 (a) | Spurious Emissions at Antenna Terminal | Compliance* | |
| § 2.1053 § 22.917 (a); § 24.238 (a) | Spurious Radiation Emissions | Compliance | |
| § 22.917 (a); § 24.238 (a) | Out of band emission, Band Edge | Compliance* | |
| \$ 2.1055 \$ 22.355; \$ 24.235 | Frequency stability vs. temperature Frequency stability vs. voltage | Compliance* | |

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Compliance*: please refer to the modular's Report No. 15050045-FCC-R, FCC ID: XMR201510UC20

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FCC §1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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Applicable Standard

FCC§1.1310 and §2.1091.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

| (B) Limits for General Population/Uncontrolled Exposure | | | | | | | | | |
|---|----------------------------------|----------------------------------|------------------------|--------------------------|--|--|--|--|--|
| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm²) | Averaging Time (minutes) | | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 | | | | | |
| 1.34–30 | 824/f | 2.19/f | *(180/f²) | 30 | | | | | |
| 30–300 | 27.5 | 0.073 | 0.2 | 30 | | | | | |
| 300–1500 | / | / | f/1500 | 30 | | | | | |
| 1500-100,000 | / | / | 1.0 | 30 | | | | | |

f = frequency in MHz; * = Plane-wave equivalent power density

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

 $S = PG/4\pi R^2 = power density (in appropriate units, e.g. mW/cm^2);$

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain; R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

| DJ | Frequency | Antenna Gain | | Tune-up Power | | Evaluation Distance | Power | MPE Limit | |
|-----------------|----------------|--------------|-----------|--------------------|--------|------------------------|-------------------------------|-----------------------|--|
| Band | Range (MHz) | (dBi) | (numeric) | umeric) (dBm) (mW) | | (cm) | Density (mW/cm ²) | (mW/cm ²) | |
| WCDMA band V | 826.4 | 1.6 | 1.45 | 24.0 | 251.19 | 20 | 0.072 | 0.55 | |
| WCDMA band II | 1852.4 | 1.8 | 1.51 | 23.5 | 223.87 | 20 | 0.067 | 1.0 | |

Result: The device meet FCC MPE at 20 cm distance.

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FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC \S 2.1047(d), Part 22H & 24E, there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.



FCC § 2.1046, § 22.913 (a) & § 24.232 (c) - RF OUTPUT POWER

Applicable Standard

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

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According to FCC §2.1046 and §24.232 (c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications..

According to §24.232 (d) Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Test Procedure

WCDMA-Release 99

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification. The EUT has a nominal maximum output power of 24dBm (+1.7/-3.7).

| WCDMA General Settings | Loopback Mode | Test Mode 1 | | |
|---------------------------|----------------------------|--------------|--|--|
| | Rel99 RMC | 12.2kbps RMC | | |
| | Power Control Algorithm | Algorithm2 | | |
| | βc / βd | 8/15 | | |

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WCDMA HSDPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

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| | Mode | HSDPA | HSDPA | HSDPA | HSDPA | | | |
|---------------------|----------------------------|-------|-------|-------------|-------|--|--|--|
| | Subset | 1 | 2 | 3 | 4 | | | |
| | Loopback Mode | | | Test Mode | 1 | | | |
| | Rel99 RMC | | | 12.2kbps RM | IC | | | |
| | HSDPA FRC | | | H-Set1 | | | | |
| WCDMA | Power Control Algorithm | | | Algorithm2 | 2 | | | |
| WCDMA | βς | 2/15 | 12/15 | 15/15 | 15/15 | | | |
| General Settings | βd | 15/15 | 15/15 | 8/15 | 4/15 | | | |
| Settings | βd (SF) | 64 | | | | | | |
| | βc/ βd | 2/15 | 12/15 | 15/8 | 15/4 | | | |
| | βhs | 4/15 | 24/15 | 30/15 | 30/15 | | | |
| | MPR(dB) | 0 | 0 | 0.5 | 0.5 | | | |
| | DACK | | | 8 | | | | |
| | DNAK | | | 8 | | | | |
| HSDPA | DCQI | | | 8 | | | | |
| Specific | Ack-Nack repetition | | | 3 | | | | |
| Settings | factor | | 3 | | | | | |
| Settings | CQI Feedback | A | | 4ms | 4ms | | | |
| | CQI Repetition Factor | A | | 2 | 2 | | | |
| | Ahs=βhs/ βc | | | 30/15 | | | | |

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The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

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| | Mode | HSUPA | HSUPA | HSUPA | HSUPA | HSUPA | | | |
|----------------------|----------------------------|------------------------|--------|------------------------|---|------------------|--|--|--|
| | Subset | 1 | 2 | 3 | 4 | 5 | | | |
| | Loopback Mode | Test Mode 1 | | | | | | | |
| | Rel99 RMC | 12.2kbps RMC | | | | | | | |
| | HSDPA FRC | H-Set1 | | | | | | | |
| | HSUPA Test | | HS | UPA Loopb | ack | | | | |
| WCDM | Power Control Algorithm | | | Algorithm2 | | | | | |
| A | Вс | 11/15 | 6/15 | 15/15 | 2/15 | 15/15 | | | |
| General | βd | 15/15 | 15/15 | 9/15 | 15/15 | 0 | | | |
| Settings | Вес | 209/225 | 12/15 | 30/15 | 2/15 | 5/15 | | | |
| | βc/ βd | 11/15 | 6/15 | 15/9 | 2/15 | - | | | |
| | βhs | 22/15 | 12/15 | 30/15 | 4/15 | 5/15 | | | |
| | CM(dB) | 1.0 | 3.0 | 2.0 | 3.0 | 1.0 | | | |
| | MPR(dB) | 0 | 2 | 1 | 2 | 0 | | | |
| | DACK | , | A- | 8 | | , | | | |
| | DNAK | | | 8 | | | | | |
| | DCQI | | | 8 | | | | | |
| HSDPA | Ack-Nack repetition | | | | | | | | |
| Specific Settings | factor | 3 | | | | | | | |
| | CQI Feedback | 4ms | | | | | | | |
| | CQI Repetition Factor | | | 2 | | | | | |
| | Ahs=βhs/ βc | 30/15 | | | | | | | |
| | DE-DPCCH | 6 | 8 | 8 | 5 | 7 | | | |
| | DHARQ | 0 | 0 | 0 | 0 | 0 | | | |
| | AG Index | 20 | 12 | 15 | 17 | 21 | | | |
| | ETFCI | 75 | 67 | 92 | 71 | 81 | | | |
| | Associated Max UL | 242.1 | 174.9 | 482.8 | 205.8 | 308.9 | | | |
| | Data Rate kbps | 242.1 | 1/4.9 | 482.8 | 205.8 | 308.9 | | | |
| HSUPA | | E-TFC E-TFC E-TF | I PO 4 | E-TFCI 11 E-TFCI | E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 | | | | |
| Specific | | E-1FCI | | PO4 | | C1 67 I PO 18 | | | |
| Settings | | E-TFO | | E-TFCI | E-TF | | | | |
| | Reference E FCls | E-TFC | | 92 | E-TFC | | | | |
| | | E-TF | | E-TFCI | E-TF | | | | |
| | | E-TFC | | PO 18 | E-TFCI 73 E-TFCI PO26 | | | | |
| | | E-TF0 | CI 81 | | E-TFCI 81 | | | | |
| | | E-TFCI | PO 27 | | E-TFC | I PO 27 | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | 1 | l . | | | | |

Radiated method:

ANSI/TIA-603-D section 2.2.17

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Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|-------------------|------------------------------|------------|------------------|---------------------|-------------------------|
| R&S | EMI Test Receiver | ESCI | 100224 | 2015-08-03 | 2016-08-02 |
| Sunol Sciences | Antenna | JB3 | A060611-3 | 2014-11-06 | 2017-11-05 |
| HP | Amplifier | 8447E | 2434A02181 | 2015-09-01 | 2016-09-01 |
| Agilent | Spectrum Analyzer | E4440A | SG43360054 | 2015-11-23 | 2016-11-22 |
| ETS LINDGREN | Horn Antenna | 3115 | 000 527 35 | 2013-09-06 | 2016-09-06 |
| Mini-Circuit | Amplifier | ZVA-213-S+ | 054201245 | 2015-02-19 | 2016-02-19 |
| Giga | Signal Generator | 1026 | 320408 | 2015-05-09 | 2016-05-09 |
| EMCO | Adjustable Dipole Antenna | 3121C | 9109-753 | N/A | N/A |
| TDK RF | Horn Antenna | HRN-0118 | 130 084 | 2013-09-06 | 2016-09-06 |
| N/A | Coaxial Cable | 14m | N/A | 2015-05-06 | 2016-05-06 |
| N/A | Coaxial Cable | 8m | N/A | 2015-05-06 | 2016-05-06 |
| N/A | Coaxial Cable | 2m | N/A | 2015-05-06 | 2016-05-06 |

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Test Data

Environmental Conditions

| Temperature: | 23.4°C |
|--------------------|-----------|
| Relative Humidity: | 40% |
| ATM Pressure: | 101.1 kPa |

The testing was performed by Lion Xiao on 2015-12-22.

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^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

ERP & EIRP

Part 22H

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| I WIV MMII | | | | | | | | | |
|--------------------|-----------------------|-------------------------------|------------------------|------------------------------|--------------------|----------------------------|----------------|----------------|--|
| | | Danissan | Sı | ıbstituted Me | thod | Abaaluta | | | |
| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBµV) | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) | Margin (dB) | |
| | Band V_Middle Channel | | | | | | | | |
| 836.600 | Н | 89.52 | 14.6 | 0.0 | 1.0 | 13.6 | 38.5 | 24.9 | |
| 836.600 | V | 94.08 | 22.3 | 0.0 | 1.0 | 21.3 | 38.5 | 17.2 | |

Part 24E

| | D i | | Sı | ubstituted Me | thod | Absolute | | | |
|--------------------|------------------------|-------------------------------|------------------------|------------------------------|--------------------|----------------------------|----------------|----------------|--|
| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBµV) | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) | Margin (dB) | |
| | Band II_Middle Channel | | | | | | | | |
| 1880.000 | Н | 84.09 | 12.5 | 11.1 | 1.4 | 22.2 | 33.0 | 10.8 | |
| 1880.000 | V | 85.25 | 13.8 | 11.1 | 1.4 | 23.5 | 33.0 | 9.5 | |

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = SG Level Cable loss + Antenna Gain 3) Margin = Limit-Absolute Level

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Applicable Standard

FCC § 2.1053, §22.917 and § 24.238.

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001) - the absolute level

Spurious attenuation limit in $dB = 43 + 10 \text{ Log}_{10}$ (power out in Watts)

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date | |
|-------------------|-------------------------------|------------|------------------|---------------------|-------------------------|--|
| R&S | EMI Test Receiver | ESCI | 100224 | 2015-08-03 | 2016-08-02 | |
| Sunol Sciences | Antenna | JB3 | A060611-3 | 2014-11-06 | 2017-11-05 | |
| HP | Amplifier | 8447E | 2434A02181 | 2015-09-01 | 2016-09-01 | |
| Agilent | Spectrum Analyzer | E4440A | SG43360054 | 2015-11-23 | 2016-11-22 | |
| ETS-Lindgren | Horn Antenna | 3115 | 9808-5557 | 2015-09-06 | 2018-09-06 | |
| Mini-Circuit | Amplifier | ZVA-213-S+ | 054201245 | 2015-02-19 | 2016-02-19 | |
| Giga | Signal Generator | 1026 | 320408 | 2015-05-09 | 2016-05-09 | |
| EMCO | Adjustable Dipole Antenna | 3121C | 9109-753 | N/A | N/A | |
| TDK RF | Horn Antenna | HRN-0118 | 130 084 | 2015-09-06 | 2018-09-06 | |
| N/A | Coaxial Cable | 14m | N/A | 2015-05-06 | 2016-05-06 | |
| N/A | Coaxial Cable | 8m | N/A | 2015-05-06 | 2016-05-06 | |
| N/A | Coaxial Cable | 2m | N/A | 2015-05-06 | 2016-05-06 | |
| Mini Circuit | Mini Circuit High Pass Filter | | 31251 2015-05-06 | | 2016-05-06 | |
| Mini Circuit | High Pass Filte | VHF-1200+ | N/A | 2015-05-06 | 2016-05-06 | |

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

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Test Data

Environmental Conditions

| Temperature: | 23.4 °C |
|--------------------|-----------|
| Relative Humidity: | 40% |
| ATM Pressure: | 101.1 kPa |

The testing was performed by Lion Xiao on 2015-12-22.

EUT operation Mode: Transmitting

WCDMA Band V (PART 22H)

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30 MHz-10 GHz:

| 1 | | Receiver Reading (dBµV) | Substituted Method | | | Absolute | | |
|----------------------|----------------|-------------------------------|------------------------|------------------------------|--------------------|-------------|----------------|----------------|
| | Polar (H/V) | | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | Level (dBm) | Limit (dBm) | Margin (dB) |
| Frequency: 836.6 MHz | | | | | | | | |
| 1673.200 | Н | 38.51 | -62.6 | 10.5 | 1.5 | -53.6 | -13.0 | 40.6 |
| 1673.200 | V | 41.04 | -60.3 | 10.5 | 1.5 | -51.3 | -13.0 | 38.3 |
| 251.100 | Н | 34.27 | -73.9 | 0.0 | 0.5 | -74.4 | -13.0 | 61.4 |
| 292.800 | V | 35.09 | -70.0 | 0.0 | 0.5 | -70.5 | -13.0 | 57.5 |

WCDMA Band II (PART 24E)

30 MHz-20 GHz:

| | AV. | | Substituted Method | | | | | |
|---------------------|----------------|-------------------------------|------------------------|------------------------------|-----------------|----------------------------|----------------|----------------|
| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBµV) | S.G. Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
| Frequency: 1880 MHz | | | | | | | | |
| 3760.000 | Н | 52.03 | -42.3 | 12.3 | 2.9 | -32.9 | -13.0 | 19.9 |
| 3760.000 | V | 49.68 | -43.4 | 12.3 | 2.9 | -34.0 | -13.0 | 21.0 |
| 251.100 | Н | 35.01 | -73.1 | 0.0 | 0.5 | -73.6 | -13.0 | 60.6 |
| 292.800 | V | 34.67 | -70.4 | 0.0 | 0.5 | -70.9 | -13.0 | 57.9 |

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = SG Level Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

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

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