

FCC PART 95 MEASUREMENT AND TEST REPORT

For

Powerwerx, Inc.

23695 Via Del Rio Yorba Linda CA 92887,USA

FCC ID: 2ACK8TR505

Product Type: Report Type: Original Report Two-way Radio Simon wang **Test Engineer:** Simon Wang **Report Number:** RSZ141128553-00 **Report Date:** 2014-12-24 Jimmy xiao Jimmy Xiao **Reviewed By:** RF Engineer Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building **Test Laboratory:** ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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

TABLE OF CONTENTS

| GENERAL INFORMATION | 3 |
|--|-----|
| PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) | 3 |
| Objective | 3 |
| RELATED SUBMITTAL(S)/GRANT(S) | |
| TEST METHODOLOGY | |
| TEST FACILITY | |
| SYSTEM TEST CONFIGURATION | 4 |
| DESCRIPTION OF TEST CONFIGURATION | |
| EQUIPMENT MODIFICATIONS | |
| BLOCK DIAGRAM OF TEST SETUP | |
| SUMMARY OF TEST RESULTS | 5 |
| FCC §2.1093 - RF EXPOSURE INFORMATION | 6 |
| APPLICABLE STANDARD | 6 |
| FCC §2.1046, §95.639(a) & §95.639(d) - RF OUTPUT POWER | 7 |
| APPLICABLE STANDARD | 7 |
| Test Procedure | |
| TEST EQUIPMENT LIST AND DETAILS | |
| TEST DATA | |
| FCC §2.1047 & §95.637(a) - MODULATION CHARACTERISTIC | |
| APPLICABLE STANDARD | |
| TEST EQUIPMENT LIST AND DETAILS | |
| TEST PROCEDURE | |
| TEST DATA | |
| FCC §2.1049 & §95.633(a) (c) - AUTHOURIZED BANDWIDTH AND EMISSION MASK | |
| APPLICABLE STANDARD | |
| TEST PROCEDURE | |
| TEST EQUIPMENT LIST AND DETAILS | |
| | |
| FCC §2.1053 & §95.635(b) (7) - RADIATED SPURIOUS EMISSION | |
| APPLICABLE STANDARD | |
| TEST PROCEDURE | |
| TEST EQUIPMENT LIST AND DETAILS | |
| FCC§2.1055 (d), §95.626(b) & §95.621 - FREQUENCY STABILITY | 20 |
| APPLICABLE STANDARD | |
| TEST PROCEDURE | 20 |
| TEST EQUIPMENT LIST AND DETAILS | |
| Team Dama | 2.1 |

Report No.: RSZ141128553-00

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *Powerwerx, Inc.* 's product, model number: *TR-505 (FCC ID: 2ACK8TR505)* or the "EUT" in this report was a *Two-way Radio*, which was measured approximately: 5.8 cm (L) x 4.1cm (W) x 17.6 cm (H), rated input voltage: DC 7.4 V battery.

Report No.: RSZ141128553-00

* All measurement and test data in this report was gathered from production sample serial number: 1411032 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2014-11-28.

Objective

This report is prepared on behalf of *Powerwerx*, *Inc.* in accordance with Part 2 and Part 95, Subpart A & Subpart B & Subpart E of the Federal Communication Commissions rules.

Related Submittal(s)/Grant(s)

No related submittal(s).

Test Methodology

All tests and measurements indicated in this document were performed in accordance with Part 95 Subpart A, B and Subpart E of the Federal Communication Commissions rules with TIA-603-D, Land Mobile FM or PM-Communications Equipment-Measurement and Performance Standards.

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication 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 December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

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.

FCC Part 95 Page 3 of 21

SYSTEM TEST CONFIGURATION

Description of Test Configuration

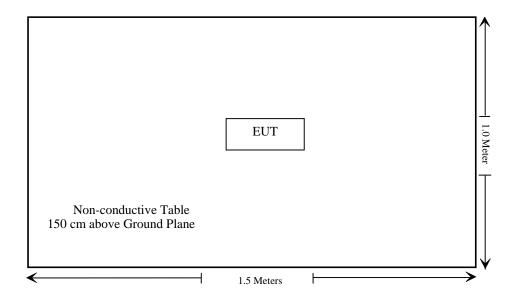
The system was configured for testing in a typical fashion (as normally used by a typical user).

Report No.: RSZ141128553-00

Equipment Modifications

No modification was made to the EUT tested.

Block Diagram of Test Setup



FCC Part 95 Page 4 of 21

SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Results |
|---------------------------------------|--------------------------------------|------------|
| §2.1093 | RF Exposure | Compliance |
| \$2.1046, \$95.639(a), \$95.639(d) | RF Output Power | Compliance |
| §2.1047, §95.637(a) | Modulation Characteristic | Compliance |
| §2.1049, §95.633(a) (c) | Authorized Bandwidth & Emission Mask | Compliance |
| §2.1053, §95.635(b) (7) | Spurious Radiated Emissions | Compliance |
| \$2.1055(d), \$95.626(b), \$95.621 | Frequency Stability | Compliance |

Report No.: RSZ141128553-00

FCC Part 95 Page 5 of 21

FCC §2.1093 - RF EXPOSURE INFORMATION

Report No.: RSZ141128553-00

Applicable Standard

Please refer to SAR Report Number: RSZ141128553-20

FCC Part 95 Page 6 of 21

FCC §2.1046, §95.639(a) & §95.639(d) - RF OUTPUT POWER

Applicable Standard

Per FCC §2.1046, §95.639(a) and §95.639(d), No FRS Unit, under any condition of modulation, shall exceed a 0.5 W effective radiated power (ERP).

Report No.: RSZ141128553-00

Per FCC §95.639 (a) (1), No GMRS transmitter, under any condition of modulation, shall exceed 50 W Carrier power when transmitting emission type A1D, F1D, G1D, A3E, F3E or G3E.

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.

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 emissions were measured by the substitution.

Test Equipment List and Details

| Manufacturer | Description | Model NO. | Serial NO. | Calibration Date | Calibration Due Date |
|-----------------|-------------------|-----------|------------|---------------------|-------------------------|
| НР | Signal Generator | 8648C | 3426A01345 | 2014-06-09 | 2015-06-09 |
| HP | Amplifier | 8447E | 1937A01046 | 2014-05-06 | 2015-05-06 |
| Rohde & Schwarz | EMI Test Receiver | ESCI | 101122 | 2014-11-03 | 2015-11-03 |
| Sunol Sciences | Broadband Antenna | JB3 | A111513 | 2014-6-18 | 2017-6-17 |
| Com Power | Dipole Antenna | AD-100 | 041000 | NCR | NCR |

^{*} Statement of Traceability: Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

| Temperature: | 24 °C |
|--------------------|-----------|
| Relative Humidity: | 50 % |
| ATM Pressure: | 100.0 kPa |

The testing was performed by Simon Wang on 2014-12-19.

Test Mode: Transmitting

FCC Part 95 Page 7 of 21

Report No.: RSZ141128553-00

Test Result: Compliance.

FCC Part 95

FCC §2.1047 & §95.637(a) - MODULATION CHARACTERISTIC

Applicable Standard

Per FCC §2.1047 and §95.637(a): A GMRS transmitter that transmits emission type F3E must not exceed a peak frequency deviation of plus or minus 5 kHz. A FRS unit that transmits emission type F3E must not exceed a peak frequency deviation of plus or minus 2.5 kHz, and the audio frequency response must not exceed 3.125 kHz.

Report No.: RSZ141128553-00

Each GMRS transmitter, except a mobile station transmitter with a power output of 2.5 W or less, must automatically prevent a greater than normal audio level from causing over-modulation. The transmitter also must include audio frequency low pass filtering, unless it complies with the applicable paragraphs of \S 95.631 (without filtering.) The filter must be between the modulation limiter and the modulated stage of the transmitter. At any frequency (f in kHz) between 3 and 20 kHz, the filter must have an attenuation of at least 60 log 10 (f/3) dB greater than the attenuation at 1 kHz. Above 20 kHz, it must have an attenuation of at least 50 dB greater than the attenuation at 1 kHz.

Test Equipment List and Details

| Manufacturer | Description | Model No. | Serial No. | Calibration Date | Calibration Due Date |
|--------------|---------------------------|-----------|------------|---------------------|-------------------------|
| HP | RF Communication Test Set | HP8920A | 3438A05201 | 2014-06-03 | 2015-06-03 |

^{*} Statement of Traceability: Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

Test Method: TIA/EIA-603-D

Test Data

Environmental Conditions

| Temperature: | 24 °C |
|--------------------|-----------|
| Relative Humidity: | 50 % |
| ATM Pressure: | 100.0 kPa |

The testing was performed by Simon Wang on 2014-12-19.

Please refer to the following tables and plots.

FCC Part 95 Page 9 of 21

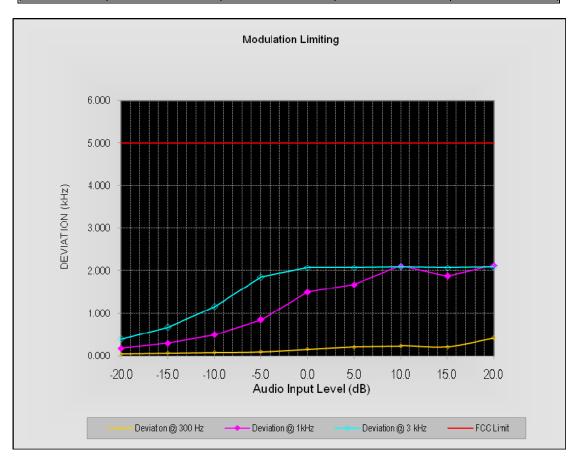
Test Mode: Transmitting

MODULATION LIMITING

Report No.: RSZ141128553-00

GMRS (462.625 MHz)

| Audio Input | Frequency Deviation (kHz) | | | FCC Limit |
|---------------|---------------------------|-------------|-------------------|-----------|
| Level (dB) | (@ 300 Hz) | (@ 1000 Hz) | (@ 3000 Hz) (kHz) | |
| 20.0 | 0.425 | 2.132 | 2.087 | 5.0 |
| 15.0 | 0.217 | 1.873 | 2.072 | 5.0 |
| 10.0 | 0.239 | 2.115 | 2.093 | 5.0 |
| 5.0 | 0.211 | 1.678 | 2.071 | 5.0 |
| 0.0 | 0.165 | 1.500 | 2.074 | 5.0 |
| -5.0 | 0.104 | 0.850 | 1.853 | 5.0 |
| -10.0 | 0.092 | 0.501 | 1.155 | 5.0 |
| -15.0 | 0.075 | 0.299 | 0.672 | 5.0 |
| -20.0 | 0.055 | 0.185 | 0.396 | 5.0 |



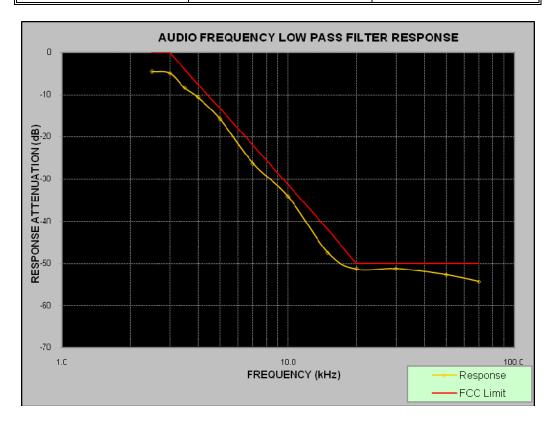
FCC Part 95 Page 10 of 21

Audio frequency Low Pass Filter Response

Report No.: RSZ141128553-00

GMRS (462.625 MHz)

| Audio Frequency (kHz) | Response Attenuation (dB) | FCC Limit (dB) |
|--------------------------|---------------------------|----------------|
| 2.5 | -4.56 | 0.0 |
| 3.0 | -4.91 | 0.0 |
| 3.5 | -8.35 | -4.0 |
| 4.0 | -10.62 | -7.5 |
| 5.0 | -15.79 | -13.3 |
| 7.0 | -26.33 | -22.1 |
| 10.0 | -34.12 | -31.4 |
| 15.0 | -47.54 | -42.0 |
| 20.0 | -51.33 | -50.0 |
| 30.0 | -51.21 | -50.0 |
| 50.0 | -52.69 | -50.0 |
| 70.0 | -54.33 | -50.0 |



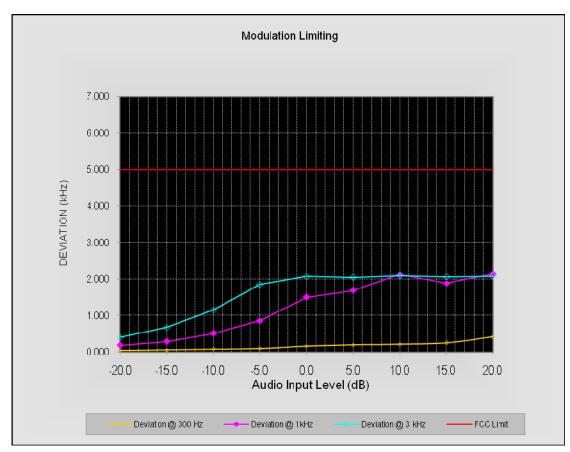
FCC Part 95 Page 11 of 21

MODULATION LIMITING

Report No.: RSZ141128553-00

GMRS (467.625 MHz)

| Audio Input | Frequency Deviation (kHz) | | | FCC Limit |
|-------------|---------------------------|-------------|-------------|-----------|
| Level (dB) | (@ 300 Hz) | (@ 1000 Hz) | (@ 3000 Hz) | (kHz) |
| 20.0 | 0.419 | 2.140 | 2.084 | 5.0 |
| 15.0 | 0.256 | 1.885 | 2.069 | 5.0 |
| 10.0 | 0.212 | 2.126 | 2.095 | 5.0 |
| 5.0 | 0.201 | 1.693 | 2.050 | 5.0 |
| 0.0 | 0.166 | 1.500 | 2.073 | 5.0 |
| -5.0 | 0.107 | 0.861 | 1.855 | 5.0 |
| -10.0 | 0.089 | 0.512 | 1.157 | 5.0 |
| -15.0 | 0.063 | 0.290 | 0.675 | 5.0 |
| -20.0 | 0.052 | 0.189 | 0.399 | 5.0 |



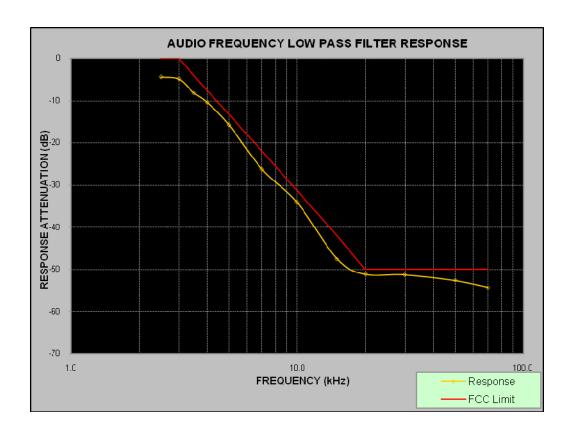
FCC Part 95 Page 12 of 21

Audio frequency Low Pass Filter Response

Report No.: RSZ141128553-00

GMRS (467.625 MHz)

| Audio Frequency (kHz) | Response Attenuation (dB) | FCC Limit (dB) |
|--------------------------|---------------------------|----------------|
| 2.5 | -4.38 | 0.0 |
| 3.0 | -4.85 | 0.0 |
| 3.5 | -8.14 | -4.0 |
| 4.0 | -10.4 | -7.5 |
| 5.0 | -15.81 | -13.3 |
| 7.0 | -26.29 | -22.1 |
| 10.0 | -34.14 | -31.4 |
| 15.0 | -47.53 | -42.0 |
| 20.0 | -51.17 | -50.0 |
| 30.0 | -51.28 | -50.0 |
| 50.0 | -52.62 | -50.0 |
| 70.0 | -54.35 | -50.0 |



FCC Part 95 Page 13 of 21

FCC §2.1049 & §95.633(a) (c) - AUTHOURIZED BANDWIDTH AND EMISSION MASK

Applicable Standard

According to §95.633(c), the authorized bandwidth for emission type F3E or F2D transmitted by a FRS unit is 12.5 kHz. The authorized bandwidth for emission type F1D, G1D, F3E or G3E is 20kHz.

Report No.: RSZ141128553-00

The power of each unwanted emission shall be less than TP as specified in the applicable paragraphs listed in the following:

- 1) At least 25 dB (decibels) on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth.
- 2) At least 35 dB on any frequency removed from the center of the authorized bandwidth by more than 100% up to and including 250% of the authorized bandwidth.
- 3) At least $43 + 10 \log_{10}(T) dB$ on any frequency removed from the center of the authorized bandwidth by more than 250%.

Test Procedure

TIA-603-D, section 2.2.11

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|-----------------|------------------------------|---------|---------------|---------------------|-------------------------|
| НР | RF Communication Test Set | HP8920A | 3438A05201 | 2014-06-03 | 2015-06-03 |
| Rohde & Schwarz | Signal Analyzer | FSIQ26 | 837405/023 | 2014-08-22 | 2015-08-22 |

^{*} Statement of Traceability: Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

| Temperature: | 26 ℃ |
|--------------------|-----------|
| Relative Humidity: | 52 % |
| ATM Pressure: | 101.0 kPa |

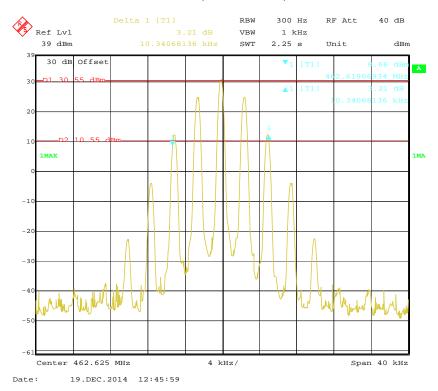
The testing was performed by Simon Wang on 2014-12-19.

FCC Part 95

| Frequency (MHz) | 20dB Bandwidth (kHz) | Limit (kHz) | Result |
|-----------------|-------------------------|----------------|--------|
| 462.625 | 10.34 | 20 | Pass |
| 467.625 | 10.34 | 20 | Pass |

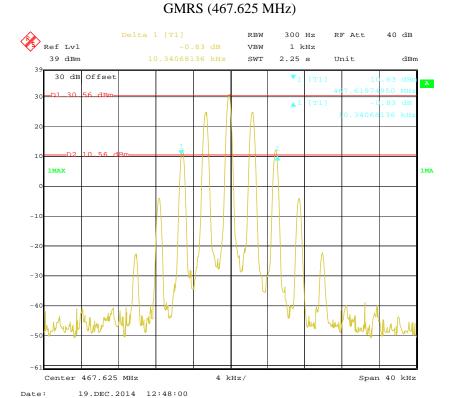
GMRS (462.625 MHz)

Report No.: RSZ141128553-00



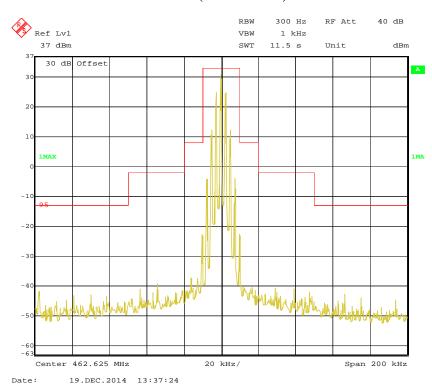
FCC Part 95 Page 15 of 21

Report No.: RSZ141128553-00



Emission Mask

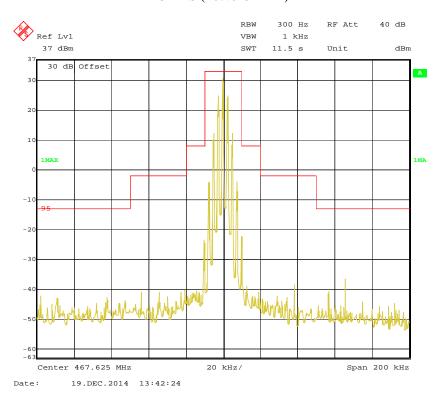
GMRS (462.625 MHz)



FCC Part 95 Page 16 of 21

GMRS (467.625 MHz)

Report No.: RSZ141128553-00



FCC Part 95 Page 17 of 21

FCC §2.1053 & §95.635(b) (7) - RADIATED SPURIOUS EMISSION

Applicable Standard

FCC §2.1053 and §95.635

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.

Report No.: RSZ141128553-00

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 1g (TXpwr in Watts/0.001)-the absolute level Spurious attenuation limit in dB = $43+10 Log_{10}$ (power out in Watts)

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|-----------------|-------------------|-------------|------------------|---------------------|-------------------------|
| HP | Amplifier | 8447E | 1937A01046 | 2014-05-06 | 2015-05-06 |
| Rohde & Schwarz | EMI Test Receiver | ESCI | 101122 | 2014-11-03 | 2015-11-03 |
| Sunol Sciences | Broadband Antenna | JB3 | A111513 | 2014-6-18 | 2017-6-17 |
| Mini | Amplifier | ZVA-183-S+ | 5969001149 | 2014-04-03 | 2015-04-03 |
| Rohde & Schwarz | Signal Analyzer | FSIQ26 | 837405/023 | 2014-08-22 | 2015-08-22 |
| A.H. System | Horn Antenna | SAS-200/571 | 135 | 2012-02-11 | 2015-02-10 |

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

FCC Part 95 Page 18 of 21

Test Data

Environmental Conditions

| Temperature: | 26 ℃ | |
|--------------------|-----------|--|
| Relative Humidity: | 52 % | |
| ATM Pressure: | 101.0 kPa | |

The testing was performed by Simon Wang on 2014-12-19.

Test Mode: Transmitting

GMRS (462.625MHz)

Report No.: RSZ141128553-00

| Indicat | ed | Table | Test A | ntenna | | Substituted | | Absolute | | |
|-----------------|-------------------------------|-----------------|------------|----------------|-------------|-----------------|-----------------------|-------------|-------------|----------------|
| Frequency (MHz) | Receiver Reading (dBuV) | Angle Degree | Height (m) | Polar (H/V) | Level (dBm) | Antenna Gain | Cable Loss (dB) | Level (dBm) | Limit (dBm) | Margin (dB) |
| 925.25 | 49.67 | 173 | 1.0 | Н | -47.3 | 0.70 | 0 | -48.00 | -13 | 35.00 |
| 925.25 | 53.43 | 146 | 2.1 | V | -43.6 | 0.70 | 0 | -44.30 | -13 | 31.30 |
| 1387.88 | 66.61 | 108 | 1.5 | Н | -32.8 | 1.20 | 6.40 | -27.60 | -13 | 14.60 |
| 1387.88 | 61.96 | 285 | 2.3 | V | -38.4 | 1.20 | 6.40 | -33.20 | -13 | 20.20 |
| 1850.50 | 46.47 | 283 | 2.1 | Н | -50.2 | 1.40 | 7.30 | -44.30 | -13 | 31.30 |
| 1850.50 | 46.60 | 226 | 1.3 | V | -48.5 | 1.40 | 7.30 | -42.60 | -13 | 29.60 |
| 2313.13 | 51.23 | 29 | 2.5 | Н | -46.6 | 1.30 | 8.30 | -39.60 | -13 | 26.60 |
| 2313.13 | 48.03 | 257 | 1.9 | V | -48.6 | 1.30 | 8.30 | -41.60 | -13 | 28.60 |

GMRS (467.625 MHz)

| Indicat | ed | Table | Test A | ntenna | | Substituted | | Absolute | | |
|-----------------|-------------------------------|-----------------|------------|----------------|-------------|-----------------|-----------------------|----------------|----------------|----------------|
| Frequency (MHz) | Receiver Reading (dBuV) | Angle Degree | Height (m) | Polar (H/V) | Level (dBm) | Antenna Gain | Cable Loss (dB) | Level (dBm) | Limit (dBm) | Margin (dB) |
| 925.25 | 50.29 | 356 | 2.1 | Н | -46.7 | 0.70 | 0 | -47.40 | -13 | 34.40 |
| 925.25 | 52.85 | 191 | 2.4 | V | -44.1 | 0.70 | 0 | -44.80 | -13 | 31.80 |
| 1402.88 | 53.98 | 337 | 1.1 | Н | -45.5 | 1.20 | 6.40 | -40.30 | -13 | 27.30 |
| 1402.88 | 47.55 | 67 | 1.7 | V | -52.8 | 1.20 | 6.40 | -47.60 | -13 | 34.60 |
| 1870.50 | 60.23 | 34 | 1.3 | Н | -36.5 | 1.40 | 7.30 | -30.60 | -13 | 17.60 |
| 1870.50 | 65.23 | 352 | 2.0 | V | -29.9 | 1.40 | 7.30 | -24.00 | -13 | 11.00 |

FCC Part 95 Page 19 of 21

FCC§2.1055 (d), §95.626(b) & §95.621 - FREQUENCY STABILITY

Applicable Standard

According to FCC §2.1055(a) (1), the frequency stability shall be measured with variation of ambient temperature from –30 °C to +50 °C, and according to FCC 2.1055(d) (2), the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point which is specified by the manufacturer.

Report No.: RSZ141128553-00

According to FCC §95.626(b), Each FRS Unit must be maintained within a frequency tolerance of 0.00025 % (2.5 ppm).

According to FCC §95.621, Each GMRS transmitter for mobile station, small base station and control station operation must be maintained within a frequency tolerance of 0.0005 %(5 ppm).

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Frequency Counter via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Frequency Counter.

Frequency Stability vs. Voltage:

- 1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.

The output frequency was recorded for each voltage.

Test Equipment List and Details

| Manufacturer | Description | Model NO. | Serial NO. | Calibration Date | Calibration Due Date |
|-----------------|--------------------------------|-----------|------------|---------------------|-------------------------|
| Hewlett-Packard | Frequency Counter | 5343A | 2232A00827 | 2013-05-09 | 2016-05-08 |
| WUHUAN | Temperature & Humidity Chamber | HTP205 | 20021115 | NCR | NCR |

^{*} Statement of Traceability: Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

FCC Part 95 Page 20 of 21

Test Data

Environmental Conditions

| Temperature: | 26℃ | |
|--------------------|-----------|--|
| Relative Humidity: | 52% | |
| ATM Pressure: | 101.0 kPa | |

The testing was performed by Simon Wang on 2014-12-19.

Test Mode: Transmitting

GMRS

Report No.: RSZ141128553-00

| Reference Frequency: 462.625 MHz, Limit: ±5 ppm | | | | | | | | |
|---|--|-----------------------------------|--------------------------|--|--|--|--|--|
| Environment Temperature (°C) | Power Supplied (V _{DC}) | Measurement Frequency (MHz) | Frequency Error (ppm) | | | | | |
| | Frequency Stabili | ty Ver. Temperature | | | | | | |
| 50 | 7.4 | 462.624777 | -0.482 | | | | | |
| 40 | 7.4 | 462.624781 | -0.473 | | | | | |
| 30 | 7.4 | 462.624779 | -0.478 | | | | | |
| 20 | 7.4 | 462.624785 | -0.465 | | | | | |
| 10 | 7.4 | 462.624786 | -0.463 | | | | | |
| 0 | 7.4 | 462.624789 | -0.456 | | | | | |
| -10 | 7.4 | 462.624790 | -0.454 | | | | | |
| -20 | 7.4 | 462.624784 | -0.467 | | | | | |
| -30 | 7.4 | 462.624792 | -0.450 | | | | | |
| | Frequency Stability Ver. Input Voltage | | | | | | | |
| 20 | 6.6 | 462.624791 | -0.452 | | | | | |

GMRS

| Reference Frequency: 467.625 MHz, Limit: ± 5 ppm | | | | | | | | |
|--|---|---------------------|--------------------------|--|--|--|--|--|
| Environment Temperature (℃) | $\begin{array}{c c} Power Supplied & Measurement \\ (V_{DC}) & Frequency \\ (MHz) & \end{array} Freq$ | | Frequency Error (ppm) | | | | | |
| | Frequency Stability | ty Ver. Temperature | | | | | | |
| 50 | 7.4 | 467.624760 | -0.513 | | | | | |
| 40 | 7.4 | 467.624767 | -0.498 | | | | | |
| 30 | 7.4 | 467.624771 | -0.490 | | | | | |
| 20 | 7.4 | 467.624780 | -0.470 | | | | | |
| 10 | 7.4 | 467.624776 | -0.479 | | | | | |
| 0 | 7.4 | 467.624781 | -0.468 | | | | | |
| -10 | 7.4 | 467.624765 | -0.503 | | | | | |
| -20 | 7.4 | 467.624775 | -0.481 | | | | | |
| -30 | 7.4 | 467.624779 | -0.473 | | | | | |
| | Frequency Stability Ver. Input Voltage | | | | | | | |
| 20 | 6.6 | 467.624785 | -0.460 | | | | | |

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

FCC Part 95 Page 21 of 21