

# FCC Part 15B

## Measurement and Test Report

For

**ZillionSource Technologies (Shanghai) Co., Ltd.**

**Suit 5130,118 Rijing Road, Shanghai Free Trade Zone, Shanghai, China**

**FCC ID: 2ACRJZS-100**

|                                      |                                                       |
|--------------------------------------|-------------------------------------------------------|
| <b>FCC Rules:</b>                    | <u>FCC Part 22H, FCC Part 24E</u>                     |
| <b>Product Description:</b>          | <u>Environmental variable collector for logistics</u> |
| <b>Tested Model:</b>                 | <u>ZS-100</u>                                         |
| <b>Report No.:</b>                   | <u>STR14078057I-2</u>                                 |
| <b>Tested Date:</b>                  | <u>2014-07-10 to 2014-07-23</u>                       |
| <b>Issued Date:</b>                  | <u>2014-07-23</u>                                     |
| <b>Tested By:</b>                    | <u>Seven Song / Engineer</u> <i>Seven Song</i>        |
| <b>Reviewed By:</b>                  | <u>Lahm Peng / EMC Manager</u> <i>Lahm peng</i>       |
| <b>Approved &amp; Authorized By:</b> | <u>Jandy so / PSQ Manager</u> <i>Jandyso</i>          |
| <b>Prepared By:</b>                  |                                                       |

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM. Test Technology Co., Ltd.

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## 1. GENERAL INFORMATION

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

#### Client Information

Applicant: ZillionSource Technologies (Shanghai) Co., Ltd.  
Address of applicant: Suit 5130,118 Rijing Road, Shanghai Free Trade Zone, Shanghai, China  
Manufacturer: ZillionSource Technologies (Shanghai) Co., Ltd.  
Address of manufacturer: Suit 5130,118 Rijing Road, Shanghai Free Trade Zone, Shanghai, China

| General Description of EUT                                                                                                                                                                                                                                                                 |                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Product Name:                                                                                                                                                                                                                                                                              | Environmental variable collector for logistics                 |
| Brand Name:                                                                                                                                                                                                                                                                                | Tubao                                                          |
| Model No.:                                                                                                                                                                                                                                                                                 | ZS-100                                                         |
| Adding Mode:                                                                                                                                                                                                                                                                               | ZS-101, ZS-103, ZS-104, ZS-105, ZS-106, ZS-107, ZS-108, ZS-109 |
| Software Version:                                                                                                                                                                                                                                                                          | /                                                              |
| Hardware Version:                                                                                                                                                                                                                                                                          | ZillionSoure V4                                                |
| IMEI:                                                                                                                                                                                                                                                                                      | 013777007427519                                                |
|                                                                                                                                                                                                                                                                                            |                                                                |
| <i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model ZS-100, but the circuit and the electronic construction do not change, declared by the manufacturer.</i> |                                                                |

| Technical Characteristics of EUT |                                  |
|----------------------------------|----------------------------------|
| Rated Voltage:                   | DC 3.7V Battery, Charging: DC 5V |
| Rated Current:                   | 1A                               |
| Rated Power:                     | /                                |
| Power Adapter Model:             | FJ-SW0501000                     |
| Lowest Internal Frequency:       | 32.768KHz                        |
| Highest Internal Frequency:      | 36MHz                            |
| Classification of ITE:           | Class B                          |

## 1.2 Test Standards

The following report is prepared on behalf of the ZillionSource Technologies (Shanghai) Co., Ltd. in accordance with Part 2, Subpart J, and Part 15, Subparts A and B of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart B, and section 15.205, 15.107, and 15.109 rules.

**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 C63.4-2003, 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

- **FCC – Registration No.: 934118**

Shenzhen SEM.Test Technology 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 and the Registration is 934118.

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

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

- **CNAS Registration No.: L4062**

Shenzhen SEM.Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101)

## 1.5 EUT Setup and Operation Mode

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

Test Mode List:

| Test Mode | Description        | Remark             |
|-----------|--------------------|--------------------|
| TM1       | Charging           | Connect to Adapter |
| TM2       | Data Communication | Connected to PC    |
| TM3       | GPS Receiving      | /                  |

EUT Cable List and Details

| Cable Description | Length (M) | Shielded/Unshielded | With Core/Without Core |
|-------------------|------------|---------------------|------------------------|
| /                 | /          | /                   | /                      |

Auxiliary Equipment List and Details

| Description | Manufacturer | Model        | Serial Number |
|-------------|--------------|--------------|---------------|
| Adapter     | Fujia        | FJ-SW0501000 | /             |

Special Cable List and Details

| Cable Description | Length (M) | Shielded/Unshielded | With Core/Without Core |
|-------------------|------------|---------------------|------------------------|
| USB Cable         | 1.0        | Shielded            |                        |

2. SUMMARY OF TEST RESULTS

| FCC Rules    | Description of Test Item | Result    |
|--------------|--------------------------|-----------|
| § 15.107 (a) | Conducted Emissions      | Compliant |
| § 15.109 (a) | Radiated Emissions       | Compliant |

N/A: not applicable

### 3. Conducted Emissions

### 3.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is  $\pm 2.88$  dB.

### 3.2 Test Equipment List and Details

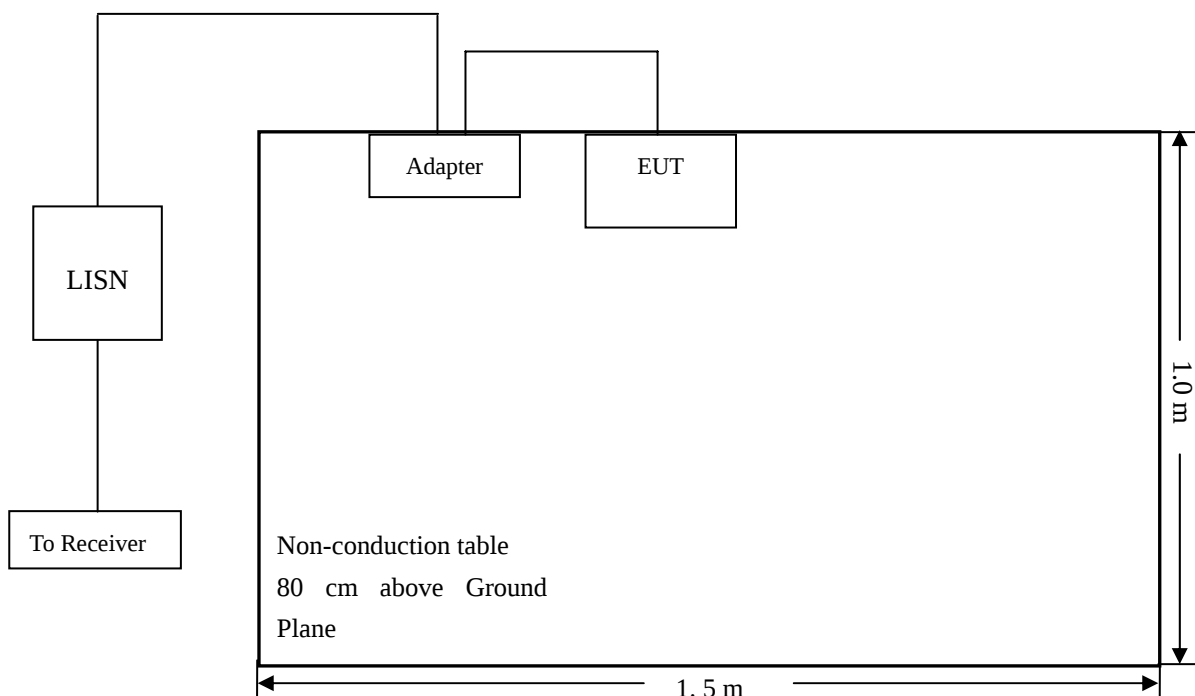
| Description       | Manufacturer    | Model    | Serial Number | Cal. Date  | Due. Date  |
|-------------------|-----------------|----------|---------------|------------|------------|
| EMI Test Receiver | Rohde & Schwarz | ESPI     | 101611        | 2014-05-28 | 2015-05-27 |
| L.I.S.N           | Schwarz beck    | NSLK8126 | 8126-224      | 2014-05-28 | 2015-05-27 |
| Pulse Limiter     | Rohde & Schwarz | ESH3-Z2  | 100911        | 2014-05-28 | 2015-05-27 |

### 3.3 Test Procedure

Test is conducting under the description of ANSI C63.4-2003, 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.

*Note: Base on the calibrated result, for the impedance characteristic and insertion loss, the effect shall be ignored from the placed multiple outlet power strip between the device and LISN.*

### 3.4 Basic Test Setup Block Diagram



### 3.5 Environmental Conditions

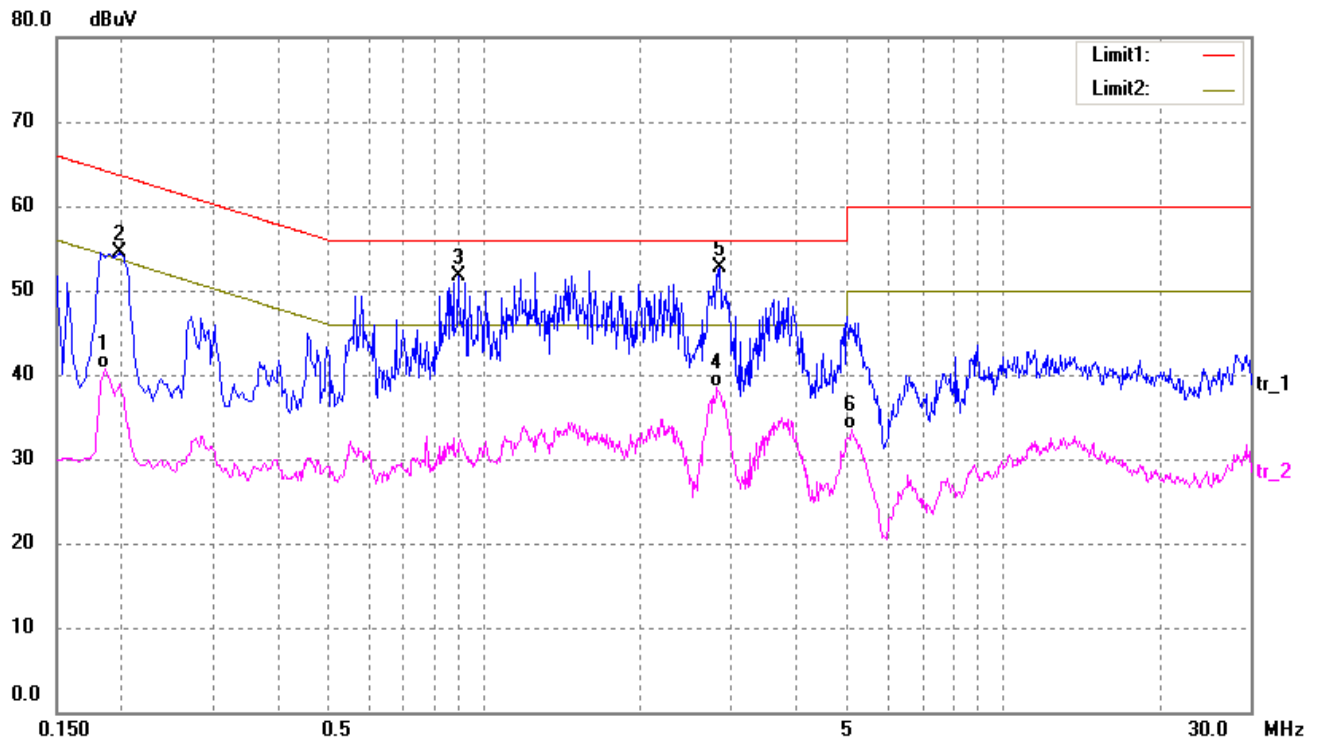
|                    |           |
|--------------------|-----------|
| Temperature:       | 23 °C     |
| Relative Humidity: | 52%       |
| ATM Pressure:      | 1011 mbar |

### 3.6 Summary of Test Results/Plots

According to the data in section 3.7, the EUT complied with the FCC Part 15.107(a) Conducted margin for a Class B device, with the *worst* margin reading of:

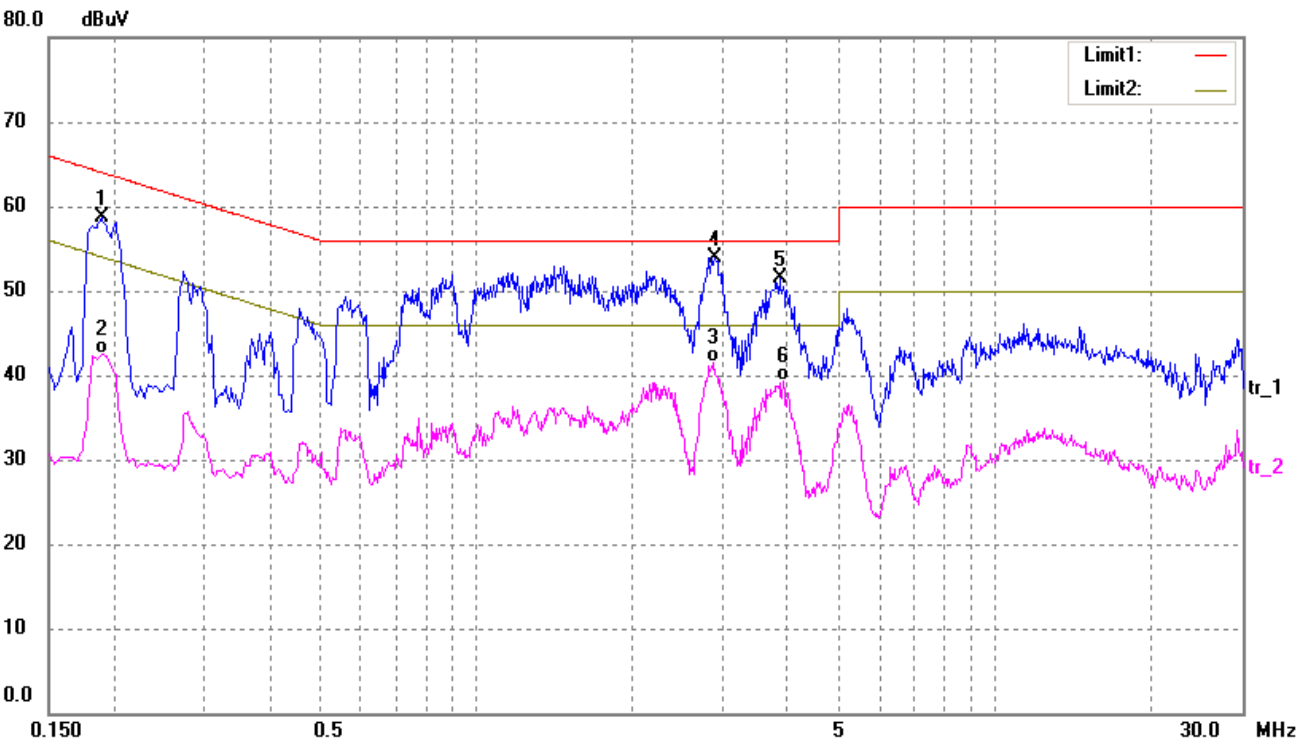
**-2.15 dB at 2.8980 MHz** in the **Line, Peak** detector, 0.15-30MHz

### 3.7 Conducted Emissions Test Data

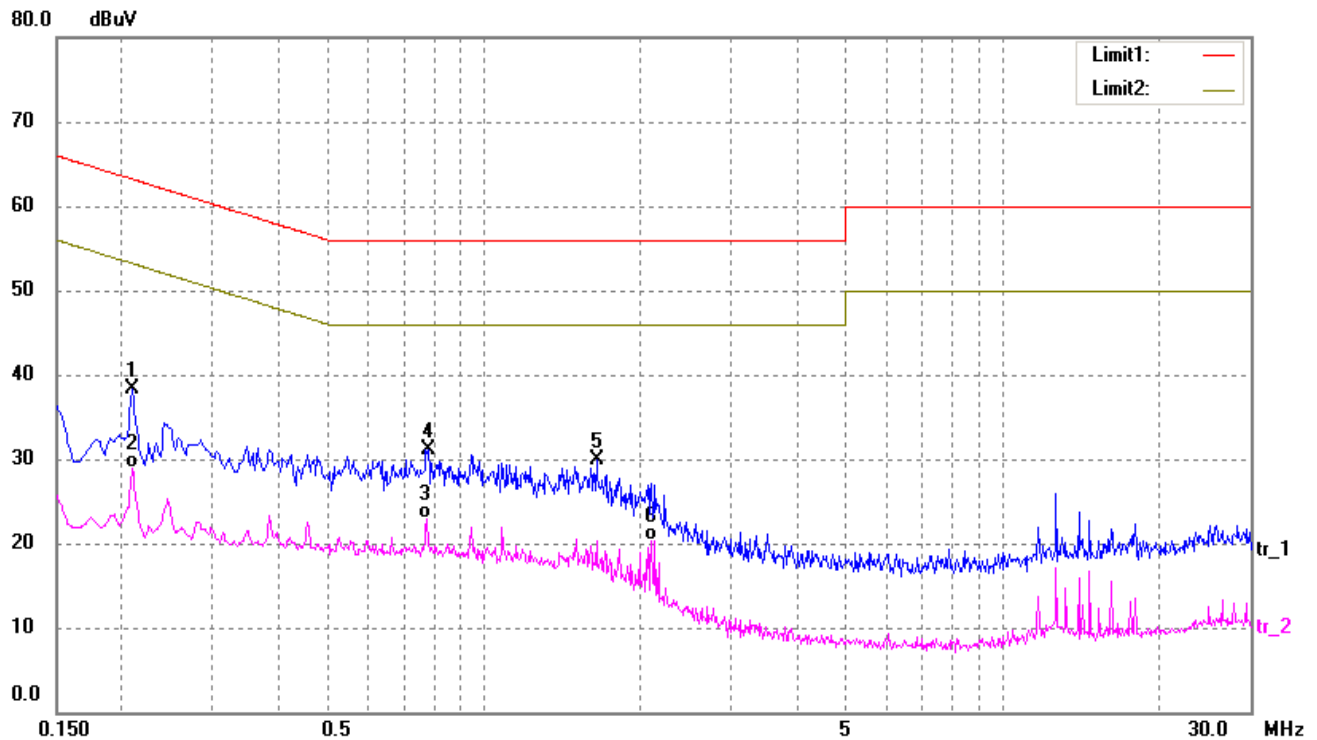
**Plot of Conducted Emissions Test Data**EUT: *Environmental variable collector for logistics*Tested Model: *ZS-100*Operating Condition: *AC 120V/60Hz; Adapter DC 5V/1A*Comment: *TM1*Test Specification: *Neutral*

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector |
|-----|--------------------|-------------------|-------------------|------------------|-----------------|----------------|----------|
| 1   | 0.1860             | 31.28             | 9.50              | 40.78            | 54.21           | -13.43         | AVG      |
| 2   | 0.1980             | 44.99             | 9.50              | 54.49            | 63.69           | -9.20          | peak     |
| 3   | 0.8900             | 41.76             | 9.89              | 51.65            | 56.00           | -4.35          | peak     |
| 4   | 2.8140             | 28.55             | 10.00             | 38.55            | 46.00           | -7.45          | AVG      |
| 5   | 2.8420             | 42.73             | 10.00             | 52.73            | 56.00           | -3.27          | peak     |
| 6   | 5.1180             | 23.47             | 10.00             | 33.47            | 50.00           | -16.53         | AVG      |

Test Specification: Line

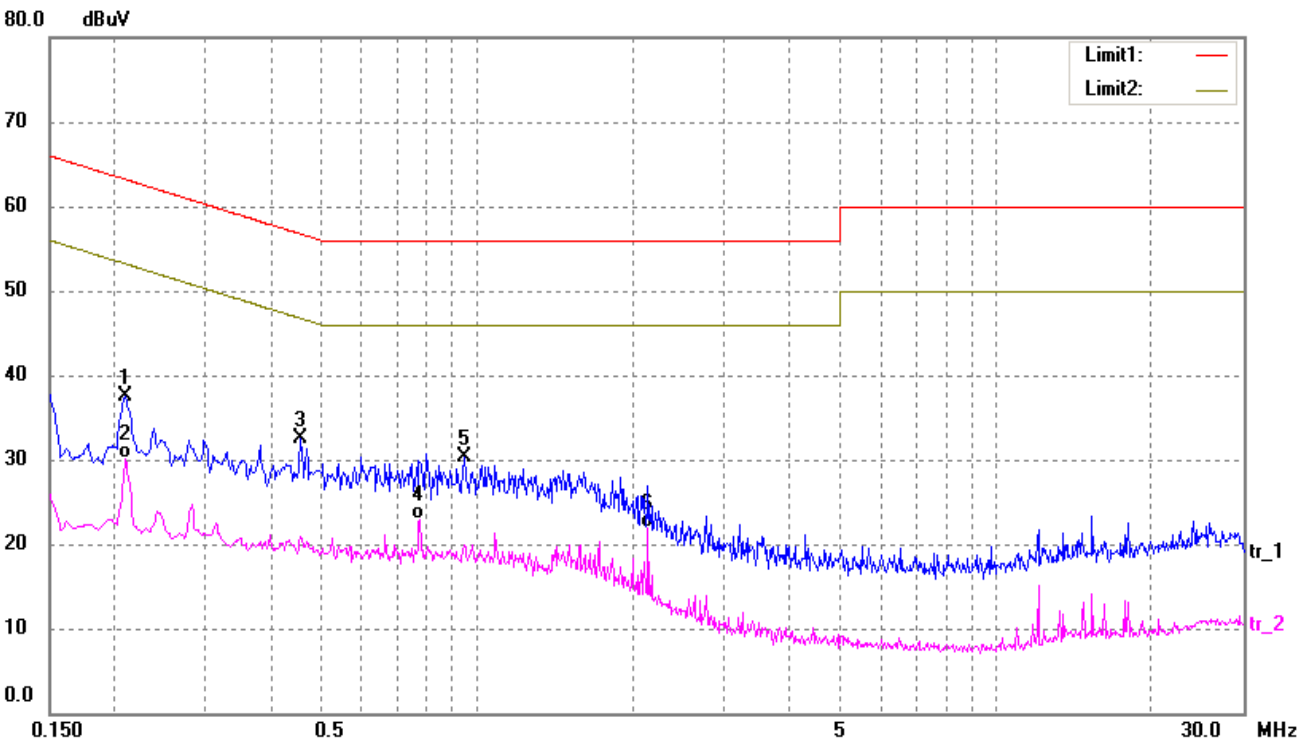


| No. | Frequency | Reading | Correct | Result | Limit  | Margin | Detector |
|-----|-----------|---------|---------|--------|--------|--------|----------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV) | (dBuV) | (dB)   |          |
| 1   | 0.1900    | 49.12   | 9.50    | 58.62  | 64.04  | -5.42  | peak     |
| 2   | 0.1900    | 33.05   | 9.50    | 42.55  | 54.04  | -11.49 | AVG      |
| 3   | 2.8820    | 31.57   | 10.00   | 41.57  | 46.00  | -4.43  | AVG      |
| 4   | 2.8980    | 43.85   | 10.00   | 53.85  | 56.00  | -2.15  | peak     |
| 5   | 3.8420    | 41.52   | 10.00   | 51.52  | 56.00  | -4.48  | peak     |
| 6   | 3.9060    | 29.24   | 10.00   | 39.24  | 46.00  | -6.76  | AVG      |

**Plot of Conducted Emissions Test Data**EUT: *Environmental variable collector for logistics*Tested Model: *ZS-100*Operating Condition: *AC 120V/60Hz; USB DC 5V*Comment: *TM2*Test Specification: *Neutral*

| No. | Frequency | Reading | Correct | Result | Limit  | Margin | Detector |
|-----|-----------|---------|---------|--------|--------|--------|----------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV) | (dBuV) | (dB)   |          |
| 1   | 0.2100    | 28.71   | 9.50    | 38.21  | 63.21  | -25.00 | peak     |
| 2   | 0.2100    | 19.46   | 9.50    | 28.96  | 53.21  | -24.25 | AVG      |
| 3   | 0.7780    | 13.07   | 9.78    | 22.85  | 46.00  | -23.15 | AVG      |
| 4   | 0.7820    | 21.38   | 9.78    | 31.16  | 56.00  | -24.84 | peak     |
| 5   | 1.6460    | 19.94   | 10.00   | 29.94  | 56.00  | -26.06 | peak     |
| 6   | 2.1020    | 10.38   | 10.00   | 20.38  | 46.00  | -25.62 | AVG      |

Test Specification: Line



| No. | Frequency | Reading | Correct | Result | Limit  | Margin | Detector |
|-----|-----------|---------|---------|--------|--------|--------|----------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV) | (dBuV) | (dB)   |          |
| 1   | 0.2100    | 28.06   | 9.50    | 37.56  | 63.21  | -25.65 | peak     |
| 2   | 0.2100    | 20.63   | 9.50    | 30.13  | 53.21  | -23.08 | AVG      |
| 3   | 0.4580    | 23.00   | 9.50    | 32.50  | 56.73  | -24.23 | peak     |
| 4   | 0.7780    | 13.06   | 9.78    | 22.84  | 46.00  | -23.16 | AVG      |
| 5   | 0.9460    | 20.28   | 9.95    | 30.23  | 56.00  | -25.77 | peak     |
| 6   | 2.1380    | 11.81   | 10.00   | 21.81  | 46.00  | -24.19 | AVG      |

## 4. Radiated Emissions

### 4.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any radiation emissions measurement is  $\pm 5.10$  dB.

### 4.2 Test Equipment List and Details

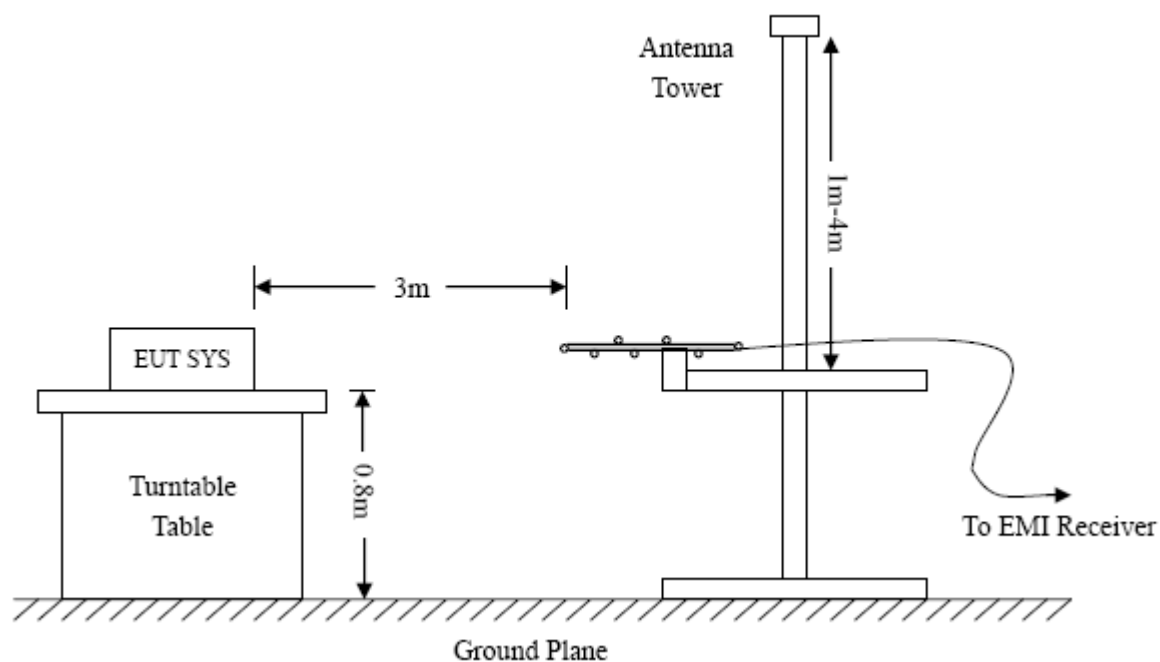
| Description              | Manufacturer         | Model     | Serial Number | Cal. Date  | Due. Date  |
|--------------------------|----------------------|-----------|---------------|------------|------------|
| Spectrum Analyzer        | R&S                  | FSP       | 836079/035    | 2014-05-28 | 2015-05-27 |
| EMI Test Receiver        | R&S                  | ESVB      | 825471/005    | 2014-05-28 | 2015-05-27 |
| Pre-amplifier            | Agilent              | 8447F     | 3113A06717    | 2014-05-28 | 2015-05-27 |
| Pre-amplifier            | Compliance Direction | PAP-0118  | 24002         | 2014-05-28 | 2015-05-27 |
| Trilog Broadband Antenna | SCHWARZBECK          | VULB9163  | 9163-333      | 2014-05-24 | 2015-05-23 |
| Horn Antenna             | ETS                  | 3117      | 00086197      | 2014-05-24 | 2015-05-23 |
| Loop Antenna             | SCHWARZECK           | HFRA 5165 | 9365          | 2014-05-28 | 2015-05-27 |

### 4.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 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.



#### 4.4 Test Receiver Setup

Frequency :9kHz-30MHz

RBW=10KHz,

VBW =30KHz

Sweep time= Auto

Trace = max hold

Detector function = peak

Frequency :30MHz-1GHz

RBW=120KHz,

VBW=300KHz

Sweep time= Auto

Trace = max hold

Detector function = peak, QP

Frequency :Above 1GHz

RBW=1MHz,

VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto

Trace = max hold

Detector function = peak, AV

#### 4.5 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:

$$\text{Corr. Ampl.} = \text{Indicated Reading} - \text{Corr. Factor}$$

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

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

#### 4.6 Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23 °C     |
| Relative Humidity: | 55 %      |
| ATM Pressure:      | 1011 mbar |

#### 4.7 Summary of Test Results/Plots

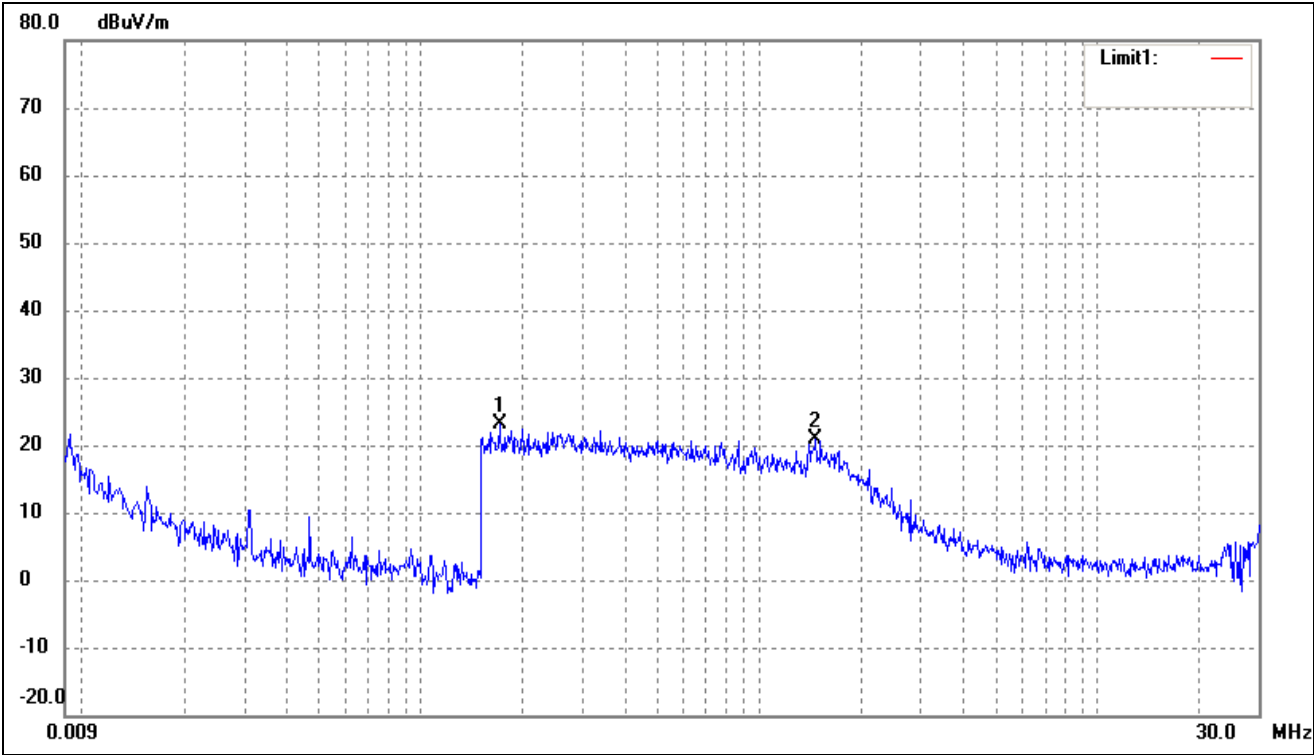
According to the data, the EUT complied with the FCC Part 15.109(a) rule, and had the worst margin of:

**-1.54 dB at 207.8501 MHz in the Horizontal polarization, Charging & Playing mode, 9 kHz to 6 GHz,  
3Meters**

Plot of Radiated Emissions Test Data (9kHz~30MHz)

EUT: Environmental variable collector for logistics  
Tested Model: ZS-100  
Operating Condition: AC 120V/60Hz; Adapter DC 5V/1A  
Comment: TM1&TM3

Test Specification:



| No. | Frequency | Reading  | Correct | Result   | Limit    | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
|     | (MHz)     | (dBuV/m) | dB/m    | (dBuV/m) | (dBuV/m) | (dB)   | ( ° )  | (cm)   |        |
| 1   | 0.1711    | 3.52     | 19.63   | 23.15    | 102.94   | -79.79 | 154    | 100    | peak   |
| 2   | 1.4638    | 7.61     | 13.19   | 20.80    | 64.29    | -43.49 | 108    | 100    | peak   |

Plot of Radiated Emissions Test Data (9kHz~30MHz)

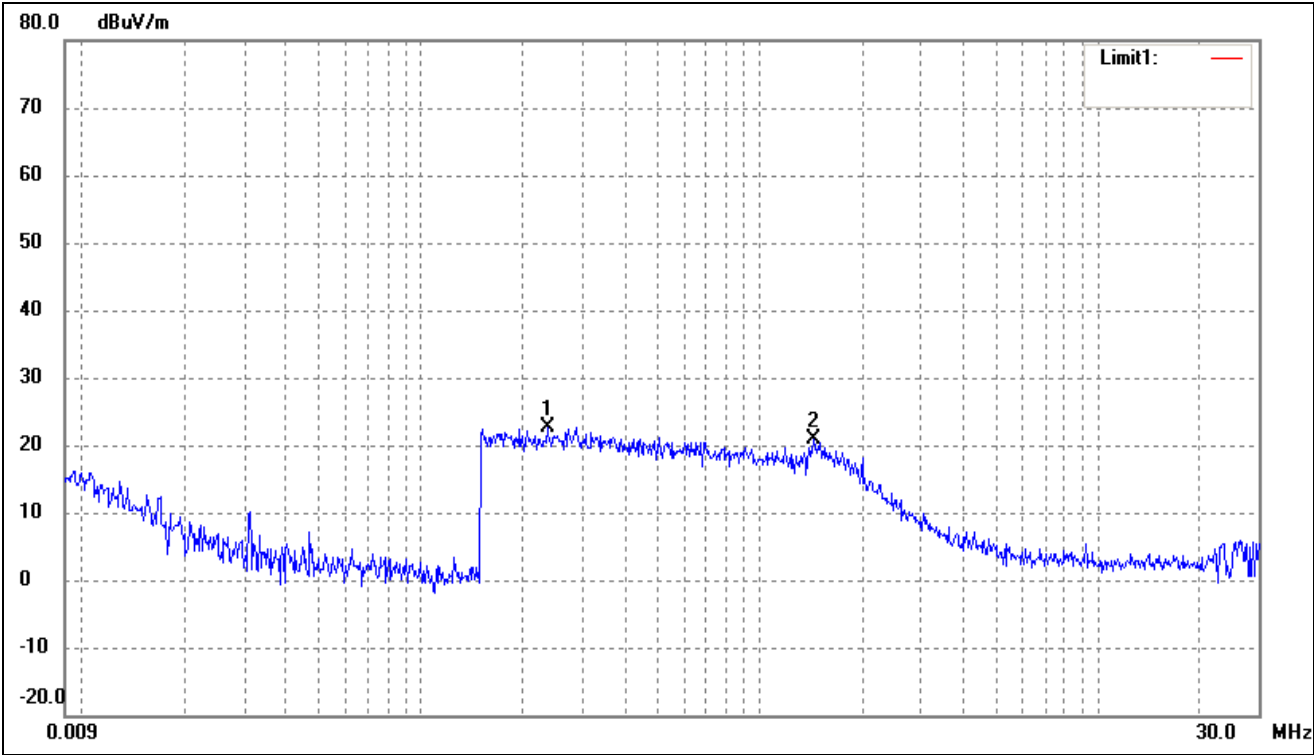
EUT:Environmental variable collector for logistics

Tested Model:ZS-100

Operating Condition:AC 120V/60Hz; USB 5V

Comment:TM2

Test Specification:



| No. | Frequency | Reading  | Correct | Result   | Limit    | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
|     | (MHz)     | (dBuV/m) | dB/m    | (dBuV/m) | (dBuV/m) | (dB)   | ( ° )  | (cm)   |        |
| 1   | 0.2353    | 3.15     | 19.56   | 22.71    | 100.17   | -77.46 | 254    | 100    | peak   |
| 2   | 1.4483    | 7.58     | 13.19   | 20.77    | 64.39    | -43.62 | 116    | 100    | peak   |

**Plot of Radiated Emissions Test Data**

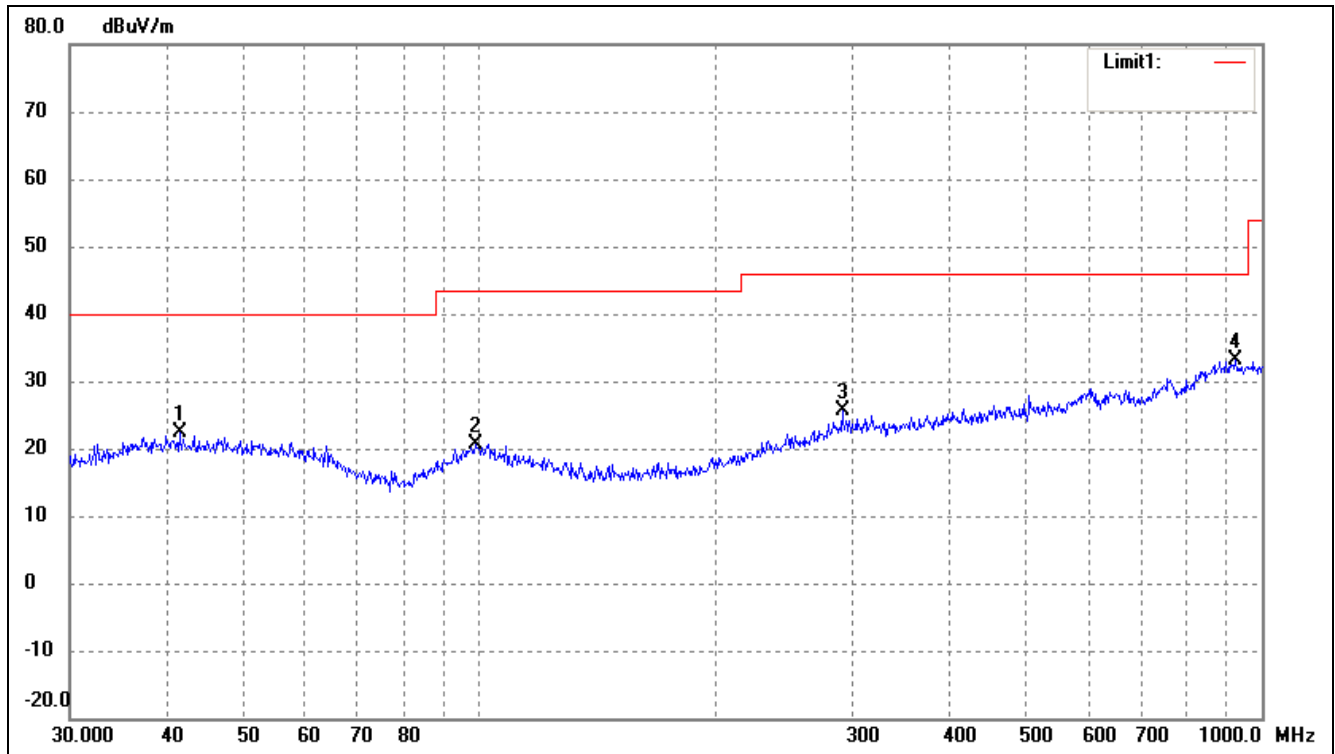
EUT: Environmental variable collector for logistics

Tested Model: ZS-100

Operating Condition: AC 120V/60Hz; Adapter DC 5V/2A

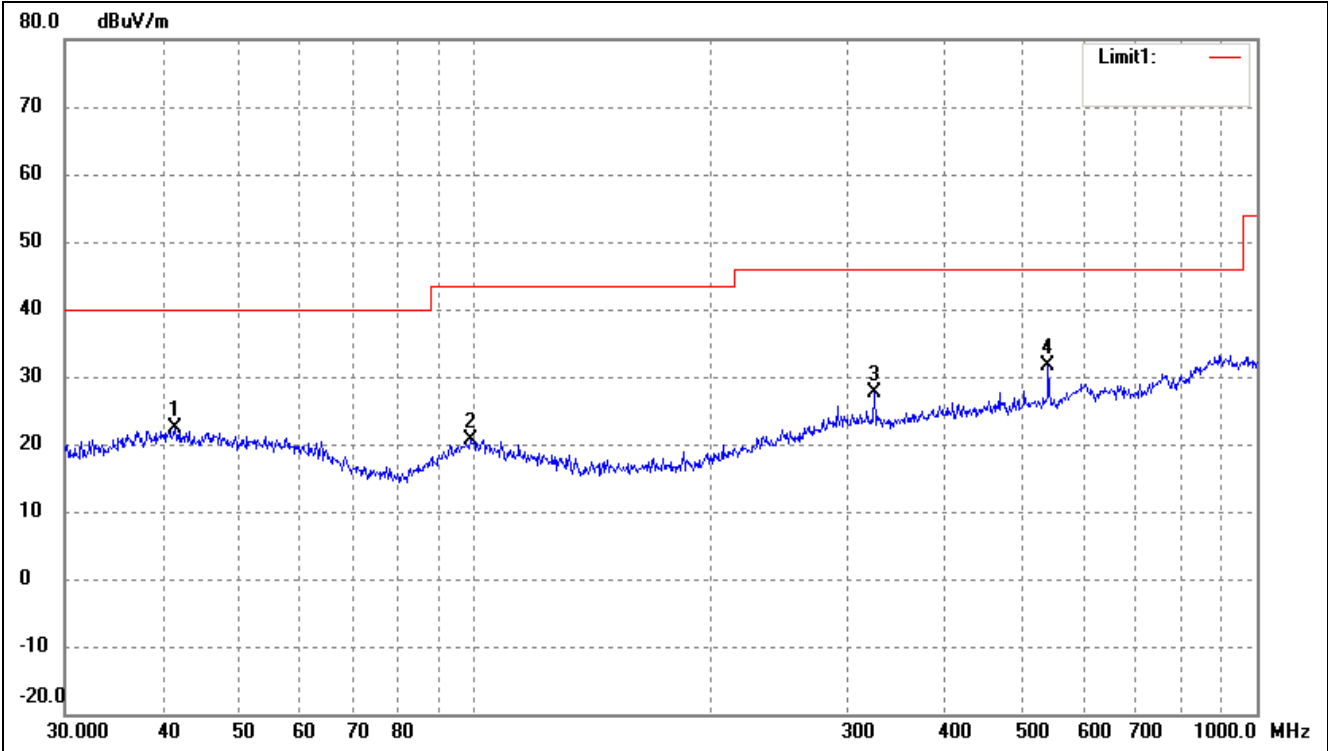
Comment: TM1&TM3

Test Specification: Horizontal

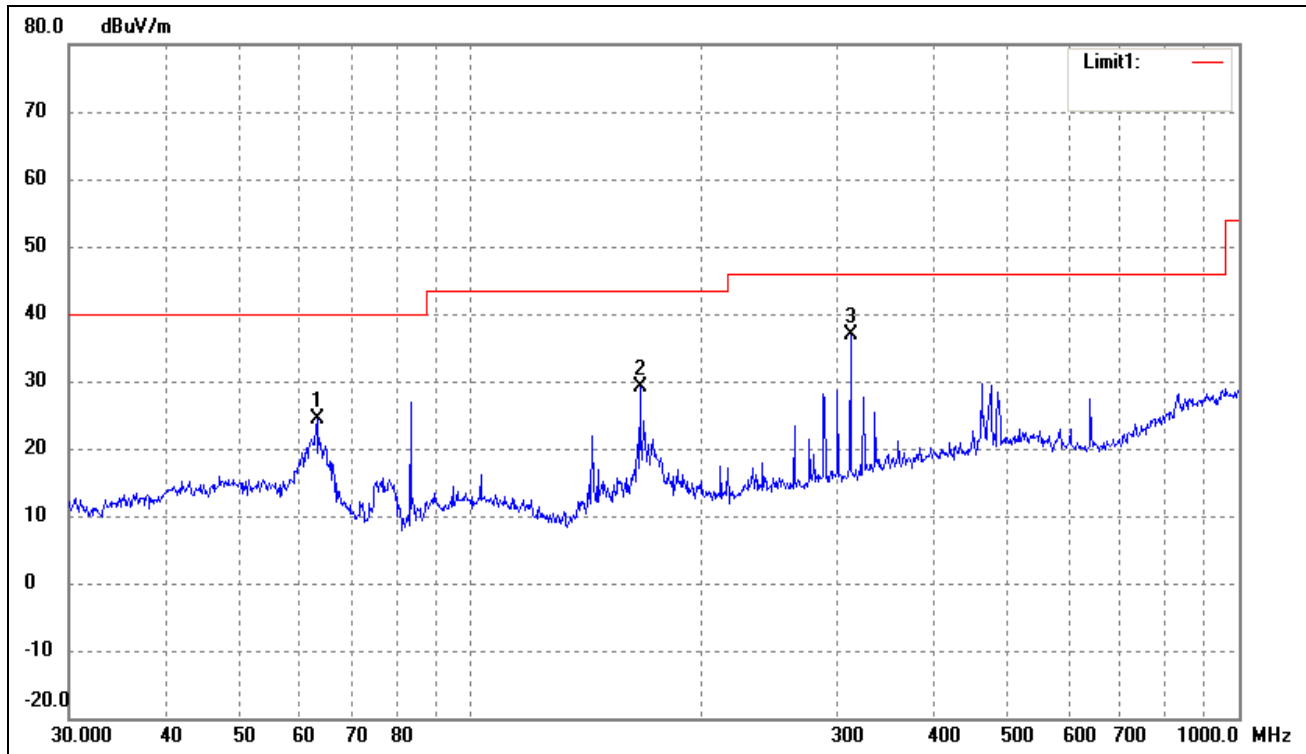


| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Degree | Height | Detector |
|-----|-----------|---------|---------|----------|----------|--------|--------|--------|----------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   | ( ° )  | (cm)   |          |
| 1   | 41.4215   | 15.18   | 7.11    | 22.29    | 40.00    | -17.71 | 188    | 100    | peak     |
| 2   | 98.8326   | 14.79   | 5.84    | 20.63    | 43.50    | -22.87 | 45     | 100    | peak     |
| 3   | 291.0360  | 16.84   | 8.83    | 25.67    | 46.00    | -20.33 | 39     | 200    | peak     |
| 4*  | 925.7563  | 16.67   | 16.40   | 33.07    | 46.00    | -12.93 | 109    | 200    | peak     |

Test Specification: Vertical

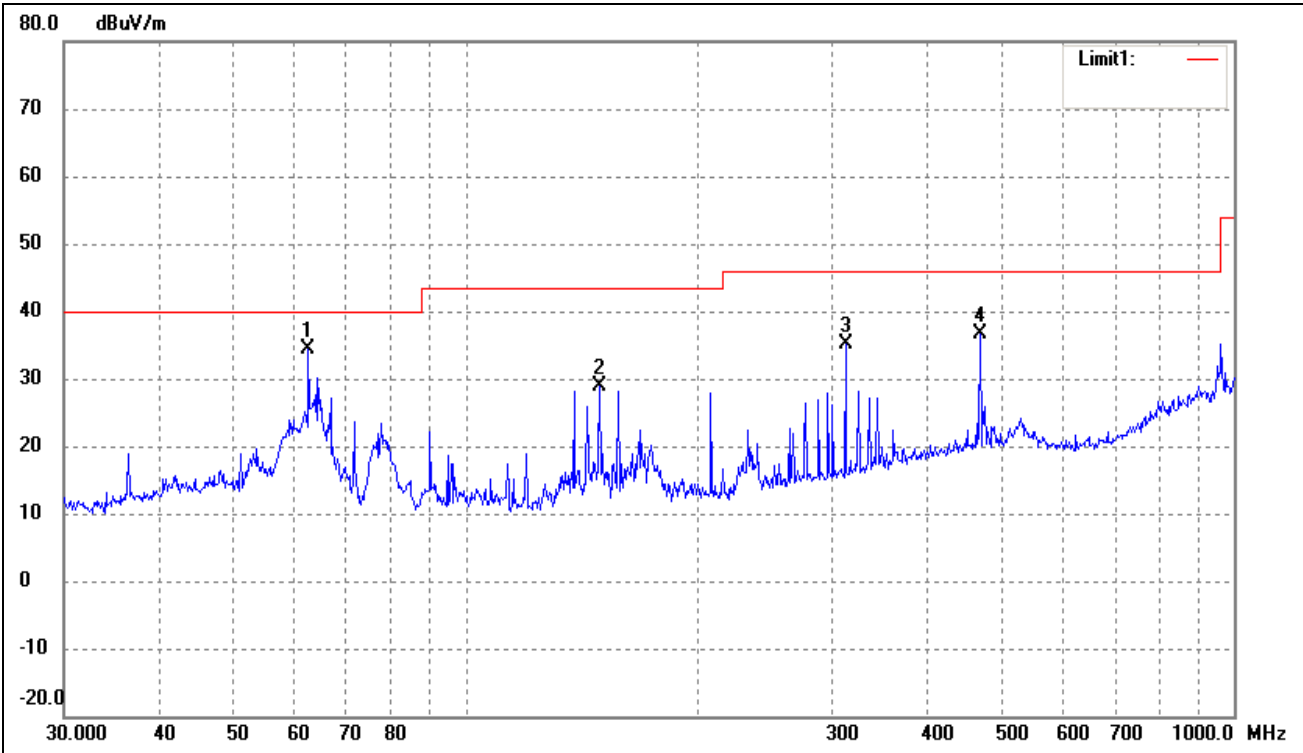


| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Degree | Height | Detector |
|-----|-----------|---------|---------|----------|----------|--------|--------|--------|----------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   | ( ° )  | (cm)   |          |
| 1   | 41.5670   | 13.56   | 8.78    | 22.34    | 40.00    | -17.66 | 128    | 100    | peak     |
| 2   | 98.8326   | 14.79   | 5.84    | 20.63    | 43.50    | -22.87 | 265    | 100    | peak     |
| 3   | 324.4561  | 18.58   | 9.16    | 27.74    | 46.00    | -18.26 | 198    | 200    | peak     |
| 4*  | 541.3725  | 20.28   | 11.31   | 31.59    | 46.00    | -14.41 | 324    | 200    | peak     |

**Plot of Radiated Emissions Test Data**EUT: *Environmental variable collector for logistics*Tested Model: *ZS-100*Operating Condition: *AC 120V/60Hz; USB 5V*Comment: *TM2*Test Specification: *Horizontal*

| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Degree | Height | Detector |
|-----|-----------|---------|---------|----------|----------|--------|--------|--------|----------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   | ( ° )  | (cm)   |          |
| 1   | 63.0916   | 33.93   | -9.53   | 24.40    | 40.00    | -15.60 | 51     | 100    | peak     |
| 2   | 166.0680  | 41.28   | -12.03  | 29.25    | 43.50    | -14.25 | 308    | 100    | peak     |
| 3*  | 312.1794  | 42.56   | -5.78   | 36.78    | 46.00    | -9.22  | 120    | 100    | peak     |

Test Specification: Vertical



| No. | Frequency | Reading | Correct | Result   | Limit    | Margin | Degree | Height | Detector |
|-----|-----------|---------|---------|----------|----------|--------|--------|--------|----------|
|     | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   | ( ° )  | (cm)   |          |
| 1*  | 62.4314   | 43.77   | -9.42   | 34.35    | 40.00    | -5.65  | 158    | 150    | peak     |
| 2   | 149.4857  | 41.80   | -12.96  | 28.84    | 43.50    | -14.66 | 226    | 100    | peak     |
| 3   | 312.1794  | 41.00   | -5.78   | 35.22    | 46.00    | -10.78 | 129    | 150    | peak     |
| 4   | 467.2349  | 38.54   | -1.87   | 36.67    | 46.00    | -9.33  | 109    | 100    | peak     |

**Remark:**  
Testing is carried out with frequency rang 9kHz to the 1GHz, The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

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