RF Exposure Evaluation Report

| Product Name | : | U-net Repeater |
|--------------|---|----------------|
| Model No. | : | SA823-2 |
| FCC ID | : | FU5SA823 |

Applicant : EVERSPRING INDUSTRY CO., LTD

Address : 3F, No.50, Sec.1, Zhonghua Rd., Tucheng Dist., New Taipei City 23666, Taiwan

Date of Receipt:Sep. 18, 2017Date of Declaration :Sep. 27, 2017Report No.:1790241R-RFUSP02V00

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

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Issued Date: Sep. 27, 2017 Report No.: 1790241R-RFUSP02V00

DEKRA

| Product Name | U-net Repeater |
|---------------------|--|
| Applicant | EVERSPRING INDUSTRY CO., LTD |
| A J.J. | 3F, No.50, Sec.1, Zhonghua Rd., Tucheng Dist., New Taipei City |
| Address | 23666,Taiwan |
| Manufacturer | Dong-Guan Li Yuan Electronics Co.,Ltd |
| Model No. | SA823-2 |
| FCC ID. | FU5SA823 |
| EUT Rated Voltage | AC 100-240V 50/60Hz or DC 6V by Battery |
| EUT Test Voltage | AC 120V / 60Hz |
| Trade Name | EVERSPRING |
| Applicable Standard | FCC 47 CFR 1.1310 |
| Test Result | Complied |

Gente Chang Documented By : (Senior Adm. Specialist / Genie Chang) Ivan Chuang Tested By : (Senior Engineer / Ivan Chuang) Approved By :

Hondo

(Director / Vincent Lin)

1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b) LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range | Electric Field | Magnetic Field | Power Density | Average Time | |
|---|----------------|----------------|---------------|--------------|--|
| (MHz) | Strength (V/m) | Strength (A/m) | (mW/cm^2) | (Minutes) | |
| (A) Limits for Occupational/ Control Exposures | | | | | |
| 300-1500 | | | F/300 | 6 | |
| 1500-100,000 | | | 5 | 6 | |
| (B) Limits for General Population/ Uncontrolled Exposures | | | | | |
| 300-1500 | | | F/1500 | 6 | |
| 1500-100,000 | | | 1 | 30 | |

F= Frequency in MHz

Friis Formula Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

 $Pd = power density in mW/cm^2$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

 $\mathbf{R}=$ distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm^2 . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

| Product | : | U-net Repeater |
|-----------|---|------------------------|
| Test Item | : | RF Exposure Evaluation |
| Test Site | : | No.3 OATS |

| Operation Frequency | 923MHz |
|--------------------------------|---------|
| Maximum Conducted output power | 14.5dBm |
| Antenna gain | 0dBi |

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Output Power to Antenna (mW) | Power Density at $R = 20 \text{ cm} (\text{mW/cm2})$ |
|------------------------------|--|
| 28.18382931 | 0.005607 |

Power density is lower than the limit (0.6 mW/cm2).