

# TEST REPORT

|                                                                                                                                                                          |                                                                                                                                               |                                                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--|
| <br>CTK Co., Ltd.<br><small>The Power Leader of Global Regulatory Certification</small> | <b>CTK Co., Ltd.</b><br>(Ho-dong), 113, Yejik-ro, Cheoin-gu,<br>Yongin-si, Gyeonggi-do, Korea<br>Tel: +82-31-339-9970<br>Fax: +82-31-624-9501 | Report No.:<br>CTK-2018-02800<br>Page (1) / (16) Pages |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--|

## 1. Client

- Name : SOLUM CO.,LTD.
- Address : 4,5,6th F, 357, Guseong-ro, Giheung-gu, Gyeonggi-do, Yongin-si, Republic of Korea
- Date of Receipt : 2018-08-01

## 2. Manufacturer

- Name : SOLUM VINA CO., LTD
- Address : Plot B3, Ba Thien 2 Industrial park, Thien Ke Ward, Binh Xuten District, Vinh Phuc Province, 281200.,Peple's Republic of Vietnam

## 3. Use of Report : For FCC Certification

## 4. Test Sample / Model : Electronic Shelf Label / TG-GR75MMH

## 5. Date of Test : 2018-08-31 to 2018-09-04

## 6. Test Standard(method) used : FCC 47 CFR part 15 subpart C 15.247

## 7. Testing Environment : Temp.: (22 ± 1) °C, Humidity: (51 ± 3) % R.H.

## 8. Test Results : Compliance

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full.

|             |                                                                                                                                  |                                                                                                                                             |
|-------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Affirmation | Tested by<br><br>Bong-seok Kim : (Signature)  | Technical Manager<br><br>Young-taek Lee : (Signature)  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|

2018-09-05

Republic of KOREA **CTK Co., Ltd.**



**CTK Co., Ltd.**  
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Report No.:  
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## REPORT REVISION HISTORY

| Date       | Revision                | Page No |
|------------|-------------------------|---------|
| 2018-09-05 | Issued (CTK-2018-02800) | all     |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--|

## 1. General Product Description

### 1.1 Client Information

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| <b>Company</b>        | SOLUM CO.,LTD.                                                                    |
| <b>Contact Point</b>  | 4,5,6th F, 357, Guseong-ro, Giheung-gu, Gyeonggi-do, Yongin-si, Republic of Korea |
| <b>Contact Person</b> | Name : Wooyoung Hur<br>E-mail : wooyoung.hur@solu-m.com<br>Tel : +82-31-8002-7783 |

### 1.2 Product Information

|                                    |                                                                                                                                                                                          |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FCC ID</b>                      | 2AFWN-TG-GR75                                                                                                                                                                            |
| <b>Product Description</b>         | Electronic Shelf Label                                                                                                                                                                   |
| <b>Model name</b>                  | TG-GR75MMH                                                                                                                                                                               |
| <b>Variant Model name</b>          | TG-GR75MCH, TG-GR7500H, TG-GY7500H, TG-GM7500H, TG-GR750CH<br>(Variant Models have no technical difference with each model except for marketing purposes and frontal color differences.) |
| <b>Operating Frequency</b>         | 2 405 MHz - 2 480 MHz                                                                                                                                                                    |
| <b>RF Output Power</b>             | -2.78 dBm (0.527 mW)                                                                                                                                                                     |
| <b>Antenna Specification</b>       | Antenna type : PCB antenna<br>Peak Gain : 1.912 dBi                                                                                                                                      |
| <b>Number of channels</b>          | 16                                                                                                                                                                                       |
| <b>Channel Spacing</b>             | 5 MHz                                                                                                                                                                                    |
| <b>Type of Modulation</b>          | OQPSK                                                                                                                                                                                    |
| <b>Power Source</b>                | DC 3 V(Coin Battery CR2450 * 4EA)                                                                                                                                                        |
| <b>RF Power setting in Test SW</b> | Initial value                                                                                                                                                                            |

### 1.3 Peripheral Devices

- For Radiated Measurement

| Device     | Manufacturer | Model No.  | Serial No. |
|------------|--------------|------------|------------|
| Notebook   | HP           | 15-bs563TU | -          |
| AC Adapter | HP           | HSTNN-LA40 | -          |

## 2. Facility and Accreditations

### 2.1 Test Facility

The measurement facility is located at (Ho-dong), 113, Yejik-ro, Cheoin-gu, Yong-in-si, Gyeonggi-do, Korea.

### 2.2 Laboratory Accreditations and Listings

| Country | Agency | Scope of Accreditation                                                                           | Registration Number                | Logo                                                                                  |
|---------|--------|--------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| USA     | FCC    | FCC Part 15 & 18<br>EMI (Electromagnetic Interference / Emission)                                | 805871                             |    |
| CANADA  | ISED   | IC<br>EMI (3/10m test site)                                                                      | 8737A-2                            |    |
| JAPAN   | VCCI   | VCCI V-3<br>EMI (Electromagnetic Interference / Emission)                                        | C-986<br>T-1843<br>R-3627<br>G-387 |   |
| KOREA   | MSIP   | EMI (Electromagnetic Interference / Emission)<br>EMS (Electromagnetic Susceptibility / Immunity) | KR0025                             |  |

### 2.3 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

### 3. Test Specifications

#### 3.1 Standards

| Section in FCC                                                                                                                                    | Requirement(s)                      | Status (Note 1) | Test Condition |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------|----------------|
| 15.247(a)                                                                                                                                         | 6 dB Bandwidth                      | NT(Note 4)      | Conducted      |
| 15.247(e)                                                                                                                                         | Transmitter power spectral density  | NT(Note 4)      |                |
| 15.247(b)                                                                                                                                         | Maximum peak conducted output power | NT(Note 4)      |                |
| 15.247(d)                                                                                                                                         | Unwanted emission                   | NT(Note 4)      |                |
| 15.209                                                                                                                                            | Transmitter emission                | C               | Radiated       |
| 15.207(a)                                                                                                                                         | AC Conducted Emission               | NT(Note 5)      | Line Conducted |
| <u>Note 1</u> : C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable                                                                        |                                     |                 |                |
| <u>Note 2</u> : The data in this test report are traceable to the national or international standards.                                            |                                     |                 |                |
| <u>Note 3</u> : The sample was tested according to the following specification: FCC Part 15.247, ANSI C63.10-2013                                 |                                     |                 |                |
| <u>Note 4</u> : The test was performed according to the class II permissive change. This change is not related to the conducted-measurement item. |                                     |                 |                |
| <u>Note 5</u> : The equipment is operated on battery power only.                                                                                  |                                     |                 |                |

#### 3.2 Mode of operation during the test

The EUT is operated in a manner representative of the typical of the equipments.  
During at testing, system components were manipulated within the confines of typical usage to maximize each emission. All modulation modes were tests.  
The results are only attached worst cases.

##### Test Frequency

| Lowest channel | Middle channel | Highest channel |
|----------------|----------------|-----------------|
| 2 405 MHz      | 2 445 MHz      | 2 480 MHz       |

##### Test mode

| Modulation | Duty Cycle |
|------------|------------|
| OQPSK      | 100 %      |

### 3.3 Maximum Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter.  
Coverage factor  $k = 2$ , Confidence levels of 95 %

| Description                          | Uncertainty |
|--------------------------------------|-------------|
| Conducted RF Output Power            | 1.5 dB      |
| Occupied Bandwidth                   | 0.1 MHz     |
| Unwanted Emission(conducted)         | 3.0 dB      |
| Radiated Emissions ( $f \leq 1$ GHz) | 4.0 dB      |
| Radiated Emissions ( $f > 1$ GHz)    | 5.0 dB      |

## 4. Technical Characteristic Test

### 4.1 Radiated Emission

#### Test Location

- ☒ 10 m SAC (test distance : ☐ 10 m, ☒ 3 m)  
☒ 3 m SAC (test distance : 3 m)

#### Test Procedures

- 1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 2) In the frequency range above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

#### Instrument Settings

Frequency Range = 9 kHz ~ 25 GHz (2.4 GHz 10<sup>th</sup> harmonic)

- a) RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz, 9 kHz for  $f < 30$  MHz
- b) VBW  $\geq$  RBW
- c) Sweep time = auto couple

## Limit :

Unwanted emissions that do not fall within the restricted frequency bands of Table 1 shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

FCC Part 15 § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

**Table 1. Restricted Frequency Bands**

| MHz                      | MHz               | MHz                 | MHz           | MHz         | GHz                     |
|--------------------------|-------------------|---------------------|---------------|-------------|-------------------------|
| 0.09-0.11                | 8.37626-8.38675   | 73-74.6             | 399.9-410     | 2690-2900   | 10.6-12.7               |
| <sup>1</sup> 0.495-0.505 | 8.41425-8.41475   | 74.8-75.2           | 608-614       | 3260-3267   | 13.25-13.4              |
| 2.1735-2.1905            | 12.29-12.293      | 108-121.94          | 960-1240      | 3332-3339   | 14.47-14.5              |
| 4.125-4.128              | 12.51975-12.52025 | 123-138             | 1300-1427     | 3345.8-3358 | 15.35-16.2              |
| 4.17725-4.17775          | 12.57675-12.57725 | 149.9-150.05        | 1435-1626.5   | 3600-4400   | 17.7-21.4               |
| 4.20725-4.20775          | 13.36-13.41       | 156.52475-156.52525 | 1645.5-1646.5 | 4500-5150   | 22.01-23.12             |
| 6.215-6.218              | 16.42-16.423      | 156.7-156.9         | 1660-1710     | 5350-5460   | 23.6-24                 |
| 6.26775-6.26825          | 16.69475-16.69525 | 162.0125-167.17     | 1718.8-1722.2 | 7250-7750   | 31.2-31.8               |
| 6.31175-6.31225          | 16.80425-16.80475 | 167.72-173.2        | 2200-2300     | 8025-8500   | 36.43-36.5              |
| 8.291-8.294              | 25.5-25.67        | 240-285             | 2310-2390     | 9000-9200   | <sup>2</sup> Above 38.6 |
| 8.362-8.366              | 37.5-38.25        | 322-335.4           | 2483.5-2500   | 9300-9500   |                         |

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> Above 38.6

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

FCC Part 15 § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in Table 2. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

**Table 2. General Field Strength Limits for Licence-Exempt Transmitters**

| Frequency(MHz) | Field Strength<br>uV/m@3m | Field Strength<br>dBuV/m@3m | Measurement<br>Distance (meters) |
|----------------|---------------------------|-----------------------------|----------------------------------|
| 0.009-0.490    | 2400/F(kHz)               | -                           | 300                              |
| 0.490-1.705    | 24000/F(kHz)              | -                           | 30                               |
| 1.705-30       | 30                        | -                           | 30                               |
| 30-88          | 100**                     | 40                          | 3                                |
| 88-216         | 150**                     | 43.5                        | 3                                |
| 216-960        | 200**                     | 46                          | 3                                |
| Above 960      | 500                       | 54                          | 3                                |

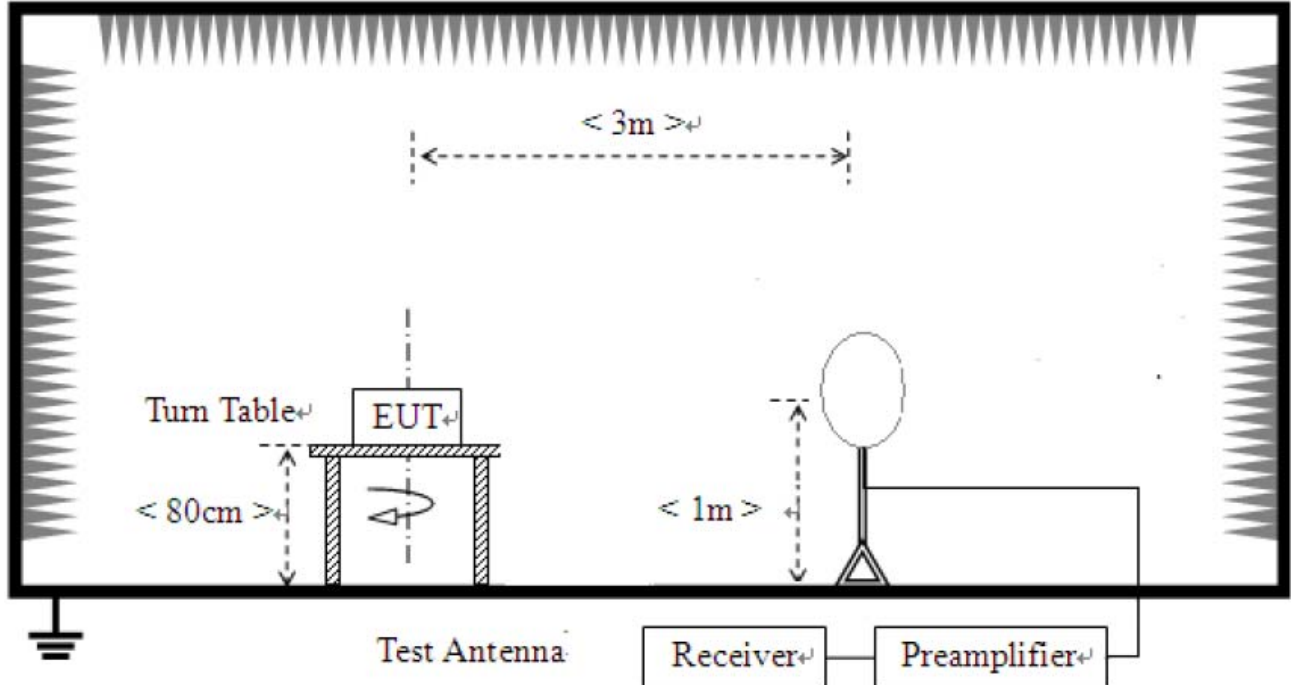
\*\* Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

Note :

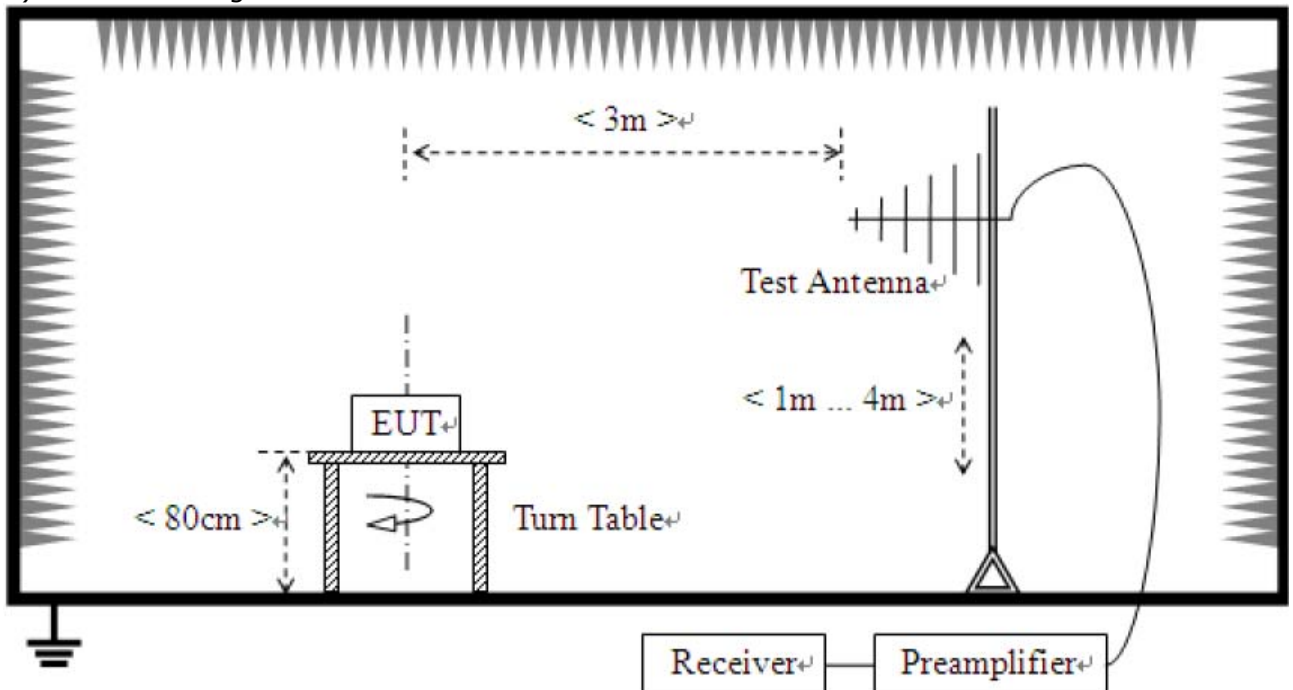
- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)
- 3) For measurement above 1GHz, the resolution bandwidth is set to 1 MHz and video bandwidth is set to 1 MHz for peak measurement and 10 Hz for average measurement.(Duty Cycle is > 98%,)
- 4) Duty Cycle is < 98%, VBW setting will need to > 1/T.

### Test Setup:

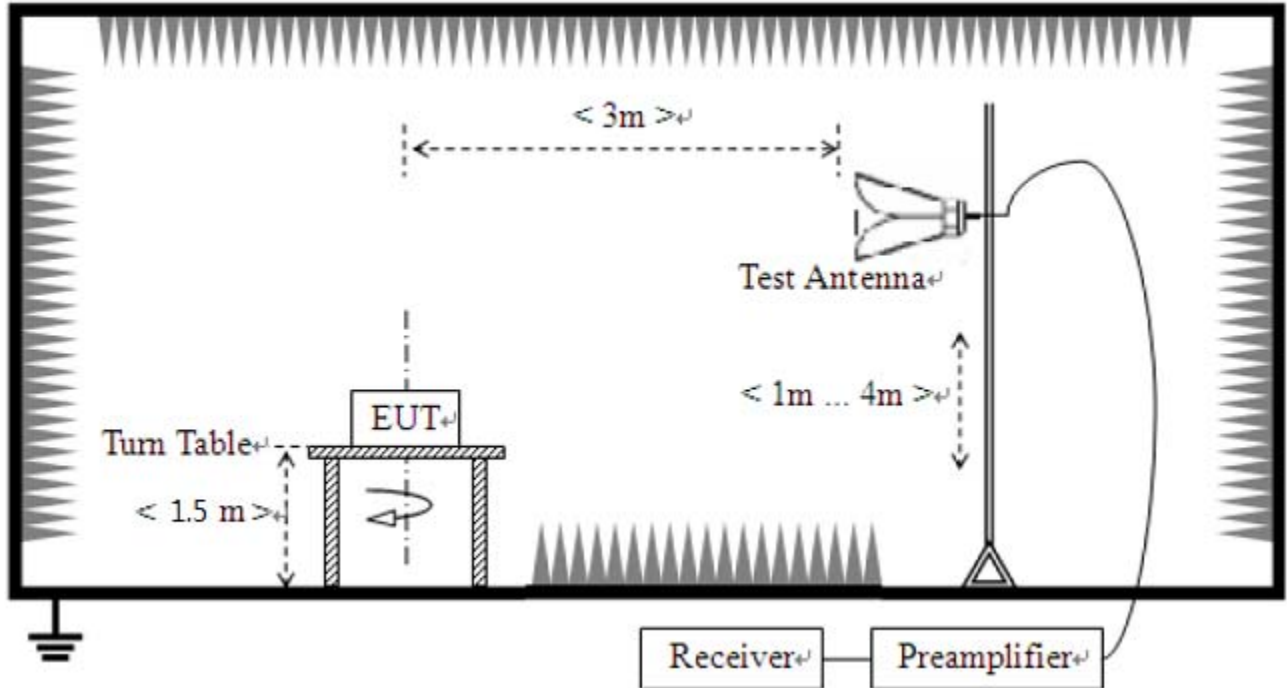
1) For field strength of emissions from 9 kHz to 30 MHz



2) For field strength of emissions from 30 MHz to 1 GHz



3) For field strength of emissions above 1 GHz



**Test results**

**1) 9 kHz to 30 MHz**

The requirements are:

☒ Complies

| Frequency (MHz) | Measured Data (dBuV/m) | Margin (dB) | Remark   |
|-----------------|------------------------|-------------|----------|
| -               | -                      | -           | See note |

**Note :**

The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB)

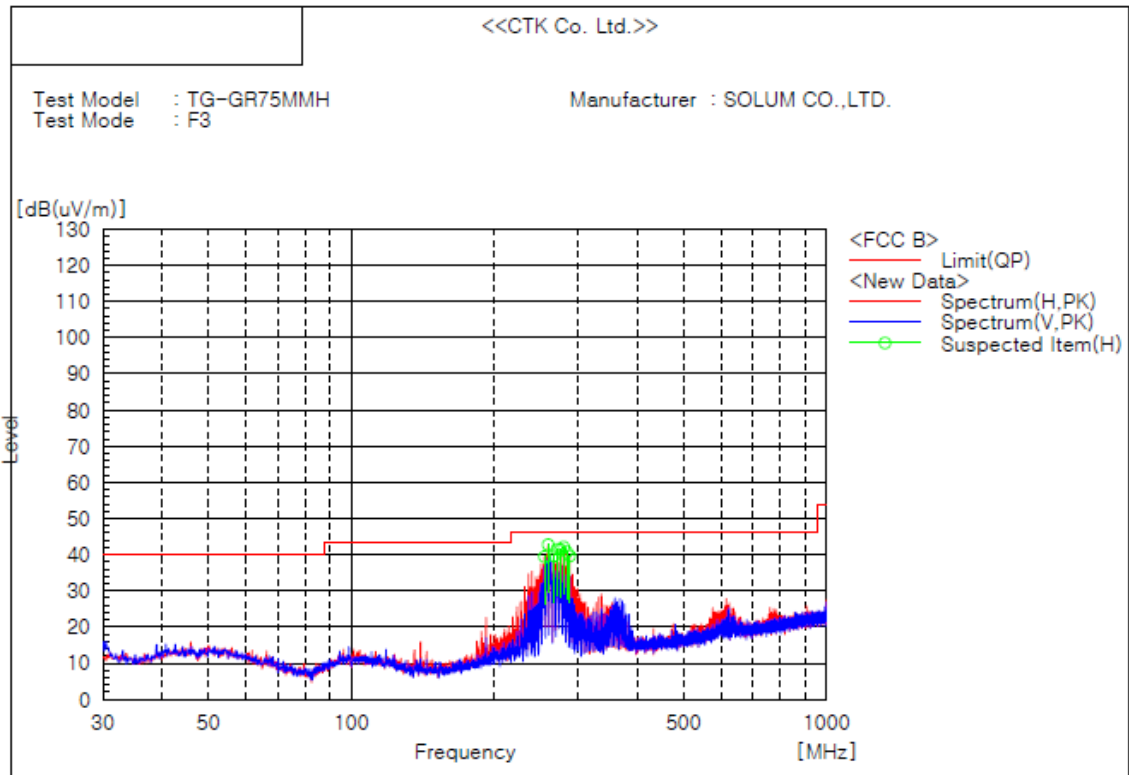
## 2) 30 MHz to 1 GHz

Test mode : Transmit, Highest Channel(Worst case)

The requirements are:

☒ Complies

### Test Data



#### Spectrum Selection

| Horizontal Polarization |                 |                  |               |                      |                     |                |        |
|-------------------------|-----------------|------------------|---------------|----------------------|---------------------|----------------|--------|
| No.                     | Frequency [MHz] | Reading [dB(uV)] | c.f [dB(1/m)] | Result PK [dB(uV/m)] | Limit QP [dB(uV/m)] | Margin QP [dB] | Remark |
| 1                       | 254.812         | 52.1             | -12.7         | 39.4                 | 46.0                | 6.6            |        |
| 2                       | 259.166         | 55.4             | -12.6         | 42.8                 | 46.0                | 3.2            |        |
| 3                       | 266.678         | 52.2             | -12.5         | 39.7                 | 46.0                | 6.3            |        |
| 4                       | 270.924         | 53.9             | -12.4         | 41.5                 | 46.0                | 4.5            |        |
| 5                       | 275.170         | 53.7             | -12.3         | 41.4                 | 46.0                | 4.6            |        |
| 6                       | 279.416         | 54.4             | -12.3         | 42.1                 | 46.0                | 3.9            |        |
| 7                       | 283.662         | 52.9             | -12.2         | 40.7                 | 46.0                | 5.3            |        |
| 8                       | 288.016         | 51.8             | -12.1         | 39.7                 | 46.0                | 6.3            |        |

#### Remark :

1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
4. This data is the Peak(PK) value.

### 3) 1 GHz to 25 GHz

The requirements are:

☒ Complies

#### Test Data

##### Test mode : Lowest frequency(2 405 MHz)

| Frequency [MHz] | Ant. Pol. (V/H) | Reading AV / PK [dBuV / m] | c.f [dB / m] | Result AV / PK [dBuV / m] | Limit AV / PK [dBuV / m] | Margin AV / PK [dB] | Remark |
|-----------------|-----------------|----------------------------|--------------|---------------------------|--------------------------|---------------------|--------|
| 2381.71         | V               | 34.83 / 48.00              | -3.91        | <b>30.92 / 44.09</b>      | 54 / 74                  | 23.08 / 29.91       | -      |
| 4809.01         | V               | 50.67 / 58.59              | 1.32         | <b>51.99 / 59.91</b>      | 54 / 74                  | 2.01 / 14.09        | -      |
| 7213.74         | V               | 42.47 / 53.41              | 5.96         | <b>48.43 / 59.37</b>      | 54 / 74                  | 5.57 / 14.63        | -      |

##### Test mode : Middle frequency(2 445 MHz)

| Frequency [MHz] | Ant. Pol. (V/H) | Reading AV / PK [dBuV / m] | c.f [dB / m] | Result AV / PK [dBuV / m] | Limit AV / PK [dBuV / m] | Margin AV / PK [dB] | Remark |
|-----------------|-----------------|----------------------------|--------------|---------------------------|--------------------------|---------------------|--------|
| 4889.01         | V               | 48.58 / 57.54              | 1.32         | <b>49.90 / 58.86</b>      | 54 / 74                  | 4.10 / 15.14        | -      |
| 7333.71         | V               | 41.11 / 52.50              | 6.03         | <b>47.14 / 58.53</b>      | 54 / 74                  | 6.86 / 15.47        | -      |

##### Test mode : Highest frequency(2 480 MHz)

| Frequency [MHz] | Ant. Pol. (V/H) | Reading AV / PK [dBuV / m] | c.f [dB / m] | Result AV / PK [dBuV / m] | Limit AV / PK [dBuV / m] | Margin AV / PK [dB] | Remark |
|-----------------|-----------------|----------------------------|--------------|---------------------------|--------------------------|---------------------|--------|
| 2483.50         | V               | 54.95 / 61.15              | -3.74        | <b>51.21 / 57.41</b>      | 54 / 74                  | 2.79 / 16.59        | -      |
| 4958.99         | V               | 47.49 / 54.08              | 1.42         | <b>48.91 / 55.50</b>      | 54 / 74                  | 5.09 / 18.50        | -      |
| 7438.64         | V               | 41.58 / 51.10              | 5.96         | <b>47.54 / 57.06</b>      | 54 / 74                  | 6.46 / 16.94        | -      |

#### Remarks

1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Result = Reading + c.f(correction factor)
3. Correction factor = Antenna factor + Cable loss - Amp Gain

## APPENDIX A – Test Equipment Used For Tests

| No | Name of Equipment   | Manufacturer    | Model No.    | Serial No.          | Date of Calibration | Due Date   |
|----|---------------------|-----------------|--------------|---------------------|---------------------|------------|
| 1  | EMI Test Receiver   | Rohde & Schwarz | ESCI7        | 100814              | 2017-10-25          | 2018-10-25 |
| 2  | Active Loop Antenna | SCHWARZBECK     | FMZB 1513    | 1513-126            | 2018-05-27          | 2020-05-27 |
| 3  | Bilog Antenna       | Schaffner       | CBL6111C     | 2551                | 2017-04-19          | 2019-04-19 |
| 4  | AMPLIFIER           | SONOMA          | 310          | 291721              | 2018-02-02          | 2019-02-02 |
| 5  | 6dB Attenuator      | R&S             | DNF          | 272.4110.50-2       | 2017-10-25          | 2018-10-25 |
| 6  | 6dB Attenuator      | R&S             | DNF          | 272.4110.50-1       | 2018-03-09          | 2019-03-09 |
| 7  | EMI Test Receiver   | Rohde & Schwarz | ESU40        | 100336              | 2018-02-01          | 2019-02-01 |
| 8  | Horn Antenna        | ETS-Lindgren    | 3117         | 00154525            | 2017-02-17          | 2019-02-17 |
| 9  | Horn Antenna        | ETS-Lindgren    | 3116         | 0062916             | 2017-04-25          | 2019-04-25 |
| 10 | Preamplifier        | Agilent         | 8449B        | 3008A02011          | 2017-11-30          | 2018-11-30 |
| 11 | Band Reject Filter  | Micro Tronics   | BRM50702     | G233                | 2018-01-26          | 2019-01-26 |
| 12 | RF Cable (Radiated) | HUBER+SUHNER    | SUCOFLEX 104 | MY27558/4           | 2018-02-02          | 2019-02-02 |
| 13 | RF Cable (Radiated) | HUBER+SUHNER    | SUCOFLEX 104 | N/A<br>(below 1GHz) | 2018-02-02          | 2019-02-02 |
| 14 | RF Cable (Radiated) | HUBER+SUHNER    | SUCOFLEX 104 | MY27573/4           | 2017-11-30          | 2018-11-30 |
| 15 | RF Cable (Radiated) | HUBER+SUHNER    | SUCOFLEX 106 | N/A<br>(above 1GHz) | 2017-11-30          | 2018-11-30 |

## APPENDIX B – EUT Photographs

