

**ELECTROMAGNETIC EMISSIONS  
COMPLIANCE TEST REPORT**

**Applicant:** Murata Manufacturing Co., Ltd.  
10-1, Higashikotari 1-chome Nagaokakyo-shi, Kyoto 617-8555 Japan

**Manufacturer:** Murata Manufacturing Co., Ltd.  
10-1, Higashikotari 1-chome Nagaokakyo-shi, Kyoto 617-8555 Japan

**Product Name:** Communication Module

**Brand Name:** muRata

**Model No.:** For FCC:  
LBEE5XV2EA, LBEE5XV2EB  
For ISED:  
LBEE5XV2EA\_SANT, LBEE5XV2EA\_DANT,  
LBEE5XV2EB\_SANT, LBEE5XV2EB\_DANT

**Model Difference:** Refer to section 1.6

**Report Number:** TERF2303000711ER

**FCC ID** VPYLBEE5XV2EA

**IC:** 772C-LBEE5XV2EA

**Date of EUT Received:** November 08, 2022

**Date of Test:** March 22, 2023

**Issue Date:** June 13, 2023

CHUN-CHIEH, CHEN

**Approved By** \_\_\_\_\_

**CHUN-CHIEH, CHEN**

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247 and §15.407, ISSED RSS-247.

The results of this report relate only to the sample identified in this report.

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## Revision History

| Report Number    | Revision | Description                            | Issue Date    | Revised By    | Remark |
|------------------|----------|--|---------------|---------------|--------|
| TERF2303000711ER | 00       | Original                               | May 04, 2023  | Violetta Tang |        |
| TERF2303000711ER | 01       | Remove HMN information from page 6     | June 02, 2023 | Violetta Tang |        |
| TERF2303000711ER | 02       | Correct firmware information on page 4 | June 13, 2023 | Violetta Tang |        |
|                  |          |  |               |               |        |
|                  |          |  |               |               |        |
|                  |          |  |               |               |        |
|                  |          |  |               |               |        |

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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# 1 GENERAL INFORMATION

## 1.1 Product Description

|                                 |  |
|---------------------------------|--|
| Product Name:                   | Communication Module   |
| Brand Name:                     | muRata   |
| Model No.:                      | For FCC:<br>LBEE5XV2EA, LBEE5XV2EB<br>For ISED:<br>LBEE5XV2EA_SANT, LBEE5XV2EA_DANT,<br>LBEE5XV2EB_SANT, LBEE5XV2EB_DANT |
| Model Difference:               | Refer to section 1.6   |
| Hardware Version:               | 1.0  |
| Firmware Version:               | 1.1.1.1<br>1.1.2.1<br>1.1.1.2<br>1.1.2.2   |
| EUT Series No.:                 | SA2022003000000312   |
| Power Supply:                   | 3.3Vdc, 1.8Vdc   |
| Test Software<br>(Name/Version) | Tera Term / 4.103  |

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**1.2 Test Methodology of Applied Standards**

FCC Part 15, Subpart C §15.247

FCC Part 15, Subpart E §15.407

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

RSS-247 issue 2 Feb. 2017

RSS-Gen, Issue 5 April 2018

ANSI C63.10:2013

**1.3 Test Facility**

| Laboratory  | Test Site Address   | Test Site Name | FCC Designa-<br>tion number | IC CAB<br>identifier |
|---|---|----------------|-----------------------------|----------------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702)   | No.134, Wu Kung Road, New Taipei<br>Industrial Park, Wuku District, New<br>Taipei City, Taiwan. | SAC 1          | TW0027                      | TW3702               |
|   |   | SAC 2          |                             |                      |
|   |   | SAC 3          |                             |                      |
|   |   | Conduction 1   |                             |                      |
|   |   | Conducted 1    |                             |                      |
|   |   | Conducted 2    |                             |                      |
|   |   | Conducted 3    |                             |                      |
|   |   | Conducted 4    |                             |                      |
|   |   | Conducted 5    |                             |                      |
|   |   | Conducted 6    |                             |                      |
|   | No.2, Keji 1st Rd., Guishan District,<br>Taoyuan City, Taiwan 333                               | Conduction C   | TW0028                      |                      |
|   |   | SAC C          |                             |                      |
|   |   | SAC D          |                             |                      |
|   |   | SAC G          |                             |                      |
|   |   | Conducted A    |                             |                      |
|   |   | Conducted B    |                             |                      |
|   |   | Conducted C    |                             |                      |
|   |   | Conducted D    |                             |                      |
|   |   | Conducted E    |                             |                      |
|   |   | Conducted F    |                             |                      |
| Conducted G   |   |                |                             |                      |
| <b>Note:</b> Test site name is remarked on the equipment list in each section of this report as an indica-<br>tion where measurements occurred in specific test site and address. |   |                |                             |                      |

**1.4 Special Accessories**

There are no special accessories used while test was conducted.

**1.5 Equipment Modifications**

There was no modification incorporated into the EUT.

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## 1.6 Model Variants

The LBEE5XV2EA\_SANT and LBEE5XV2EA\_DANT are electrically identical.

| Model For ISED  | Model For FCC | Chip on C101 | RF functions                          |
|-----------------|---------------|--------------|---------------------------------------|
| LBEE5XV2EA_SANT | LBEE5XV2EA    | CYW55573     | 2x2 WLAN2.4GHz,5GHz, 6GHz<br>+BT/ BLE |
| LBEE5XV2EA_DANT |               |              |                                       |

The LBEE5XV2EB\_SANT and LBEE5XV2EB\_DANT are electrically identical.

| Model For ISED  | Model For FCC | Chip on C101 | RF functions                    |
|-----------------|---------------|--------------|---------------------------------|
| LBEE5XV2EB_SANT | LBEE5XV2EB    | CYW55572     | 2x2 WLAN2.4GHz,5GHz<br>+BT/ BLE |
| LBEE5XV2EB_DANT |               |              |                                 |

In addition, the differences of firmware versions are

| Model           | Firmware versions | Antenna connector(s)   | WLAN       | BT     | BLE    |
|-----------------|-------------------|------------------------|------------|--------|--------|
| LBEE5XV2EA_DANT | 1.1.2.1           | 3 (ANT0, ANT1, BT_ANT) | ANT0, ANT1 | BT_ANT | BT_ANT |
| LBEE5XV2EB_DANT | 1.1.2.2           |                        |            |        |        |
| LBEE5XV2EA_SANT | 1.1.1.1           | 2 (ANT0, ANT1)         | ANT0, ANT1 | ANT0   | ANT0   |
| LBEE5XV2EB_SANT | 1.1.1.2           |                        |            |        |        |

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

### 2.4 Measurement Results Explanation Example

#### 2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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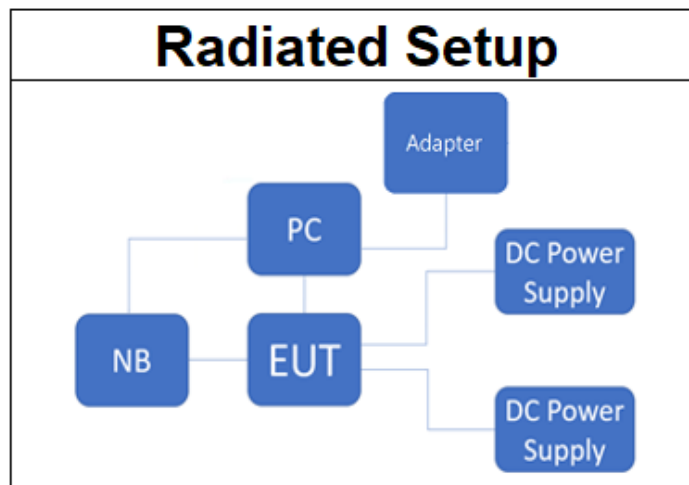
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## 2.5 Test Configuration



## 2.6 Control Unit(s)

| Radiated Emission Test Site: SAC 2 |                |               |               |           |          |
|------------------------------------|----------------|---------------|---------------|-----------|----------|
| EQUIPMENT TYPE                     | MFR            | MODEL NUMBER  | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| PC                                 | GIGABYTE       | GB-BX17H-4500 | N/A           | N/A       | N/A      |
| Adapter                            | FSP GROUP INC. | FSP065-REB    | N/A           | N/A       | N/A      |
| Notebook                           | Lenovo         | T440P         | PC-06L5W6     | N/A       | N/A      |

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### 3 DESCRIPTION OF TEST MODES

#### 3.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

Test mode

Final test modes are considering the modulation and worse data rate as below table.

| Simultaneously constitute           |              |          |                  |
|-------------------------------------|--------------|----------|------------------|
| WLAN 2.4G(MIMO)_ANT5+Bluetooth_ANT1 |              |          |                  |
| WLAN 2.4G(MIMO)_ANT5+Bluetooth_ANT5 |              |          |                  |
| WLAN 5G(MIMO)_ANT4+Bluetooth_ANT1   |              |          |                  |
| WLAN 5G(MIMO)_ANT4+Bluetooth_ANT5   |              |          |                  |
| WLAN 5G(SISO)_ANT1+Bluetooth_ANT1   |              |          |                  |
| WLAN 5G(SISO)_ANT6+Bluetooth_ANT6   |              |          |                  |
| WLAN 5G(MIMO)_ANT4+Bluetooth_ANT4   |              |          |                  |
| Antenna Number                      | Antenna Type | Supplier | Antenna Part No. |
| ANT1                                | Dipole       | Molex    | 146153           |
| ANT3                                |              | Molex    | 219611           |
| ANT4                                |              | Unictron | WT32D1-KX        |
| ANT5                                |              | Inventek | W24P-U           |
| ANT6                                | Monopole     | Murata   | Type2EA_Antenna  |

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#### 4 MEASUREMENT UNCERTAINTY

| Test Items                                 | Uncertainty |
|--|-------------|
| Undesignable radiated emission measurement | +/- 1.68 dB |
| Temperature                                | +/- 0.7 °C  |
| Humidity                                   | +/- 3 %     |
| DC / AC Power Source                       | +/- 1 %     |

| Radiated Spurious Emission Measurement Uncertainty |     |      |    |                 |
|--|-----|------|----|-----------------|
| Polarization: Vertical                             | +/- | 2.8  | dB | 9kHz~30MHz      |
|  | +/- | 4.82 | dB | 30MHz - 1000MHz |
|  | +/- | 4.37 | dB | 1GHz - 18GHz    |
|  | +/- | 4.21 | dB | 18GHz - 40GHz   |
| Polarization: Horizontal                           | +/- | 2.8  | dB | 9kHz~30MHz      |
|  | +/- | 4.54 | dB | 30MHz - 1000MHz |
|  | +/- | 4.37 | dB | 1GHz - 18GHz    |
|  | +/- | 4.21 | dB | 18GHz - 40GHz   |

**Note:**

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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## 5 UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 5.1 Standard Applicable

$EIRP = (E \cdot d)^2 / 30$ , where  $E$  is the field strength in V/m,  $d$  is the measurement distance (3m),  $EIRP$  is the equivalent isotropically radiated power in Watts.

#### 5.1.1 5150~5850 MHz

| Applicable to                       | Operation Freq. (MHz) | EIRP   |                  | Field Strength @ 3m (dBμV/m) |
|-------------------------------------|-----------------------|--|------------------|------------------------------|
|                                     |                       | Freq. (MHz)                                    | Limits (dBm/MHz) |                              |
| 15.407(b)(1)<br>RSS-247 §6.2.1.2    | 5150~5250             | $f \leq 5150$<br>$f \geq 5350$                 | PK: -27          | PK: 68.2                     |
| 15.407(b)(2)<br>RSS-247 §6.2.2.2    | 5250~5350             |  |                  |                              |
| 15.407(b)(3)<br>RSS-247 §6.2.3.2    | 5475~5725             | $f \leq 5470$<br>$f \geq 5725$                 | PK: -27          | PK: 68.2                     |
| 15.407(b)(4)(i)<br>RSS-247 §6.2.4.2 | 5725~5850             | at 75 MHz or more above or below the band edge |                  |                              |

#### 5.1.2 Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower:

| Frequency (MHz) | Field strength (microvolts/meter) | 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                               | 3                 |
| 88-216          | 150                               | 3                 |
| 216-960         | 200                               | 3                 |
| Above 960       | 500                               | 3                 |

**Note:**

1. The lower limit shall apply at the transition frequencies.

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## 5.2 Measurement Equipment Used:

| Radiated Emission Test Site: SAC 2 |               |                    |                    |            |            |
|------------------------------------|---------------|--------------------|--------------------|------------|------------|
| EQUIPMENT TYPE                     | MFR           | MODEL NUMBER       | SERIAL NUMBER      | LAST CAL.  | CAL DUE.   |
| Horn Antenna                       | RF SPIN       | DRH18-E            | 210303A18-ES       | 02/24/2023 | 02/23/2024 |
| Bi-log Antenna                     | SCHWARZBECK   | VULB9168           | 9168-1278          | 03/09/2023 | 03/08/2024 |
| Loop Antenna                       | ETS.LINDGREN  | 6502               | 148045             | 10/05/2022 | 10/04/2023 |
| Horn Antenna                       | SCHWARZBECK   | BBHA9170           | 184                | 12/30/2022 | 12/29/2023 |
| EXA Spectrum Analyzer              | KEYSIGHT      | N9010B             | MY59071541         | 07/14/2022 | 07/13/2023 |
| Test Software                      | Audix         | e3                 | Ver. 9.210322      | N.C.R      | N.C.R      |
| DC Power Supply                    | Agilent       | E3640A             | MY40005907         | 10/07/2022 | 10/06/2023 |
| DC Power Supply                    | Agilent       | E3640A             | KR93300208         | 09/08/2022 | 09/07/2023 |
| EMI Test Receiver                  | R&S           | ESCI 7             | 100759             | 08/22/2022 | 08/21/2023 |
| Pre-Amplifier                      | EMCI          | EMC330N            | 980826             | 08/31/2022 | 08/30/2023 |
| Pre-Amplifier                      | EMCI          | EMC118A45SEE       | 980867             | 08/31/2022 | 08/30/2023 |
| Pre-Amplifier                      | EMCI          | EMC184045B         | 980135             | 10/27/2022 | 10/26/2023 |
| Attenuator                         | Mini-Circuit  | BW-S10W2+          | 2                  | 12/13/2022 | 12/12/2023 |
| Bandreject Filter<br>2400-2483.5   | EWT           | EWT-14-0166        | M1                 | 12/13/2022 | 12/12/2023 |
| Bandreject Filter<br>5150-5350     | Micro-Tronics | BRM50703           | 1                  | 12/13/2022 | 12/12/2023 |
| Bandreject Filter<br>5725-5875     | Micro-Tronics | BRM50705           | 1                  | 12/13/2022 | 12/12/2023 |
| 4GHz High Pass Filter              | WI            | WHKX4.0/18G-10SS   | 22                 | 12/13/2022 | 12/12/2023 |
| 7GHz High Pass Filter              | WI            | WHKX7.0/18G-8SS    | 45                 | 12/13/2022 | 12/12/2023 |
| Coaxial Cables                     | EMCI          | EMCCFD400-NM-NM-   | RX Cable below 1G  | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI          | EMC104-SM-SM-600   | RX Cable below 1G  | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI          | EMC105-SM-SM-2000  | RX Cable below 1G  | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI          | EMC104-SM-SM-10000 | RX Cable above 1G  | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI          | EMC105-SM-SM-1000  | RX Cable above 1G  | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI          | EMC105-SM-SM-1500  | RX Cable above 1G  | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI          | EMC105-SM-SM-2000  | RX Cable above 1G  | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI          | EMCCFD400-NM-NM-   | RX Cable below 30M | 08/31/2022 | 08/30/2023 |
| Coaxial Cables                     | EMCI          | EMC105-SM-SM-2000  | RX Cable below 30M | 08/31/2022 | 08/30/2023 |
| Site Cal                           | SGS           | SAC 2              | N/A                | 08/31/2022 | 08/30/2023 |

**NOTE:** N.C.R refers to Not Calibrated Required.

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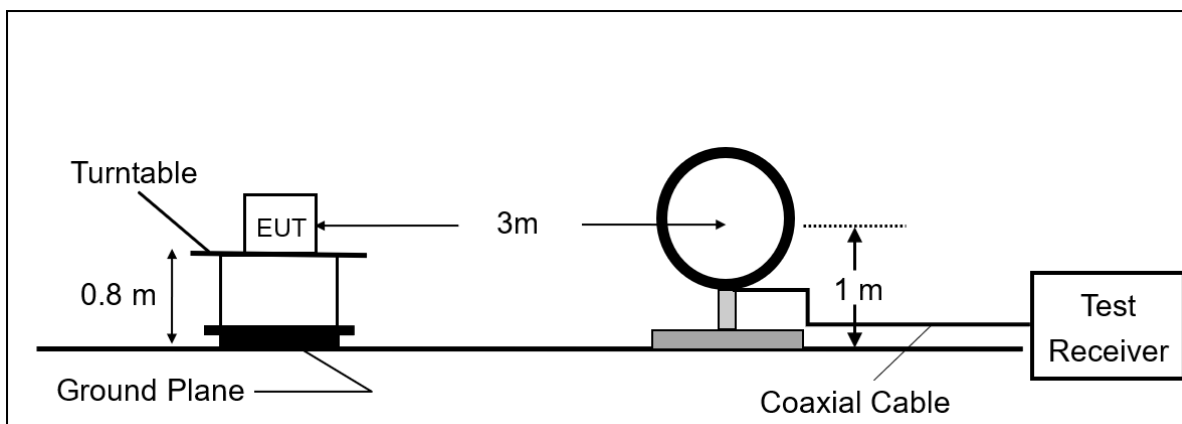
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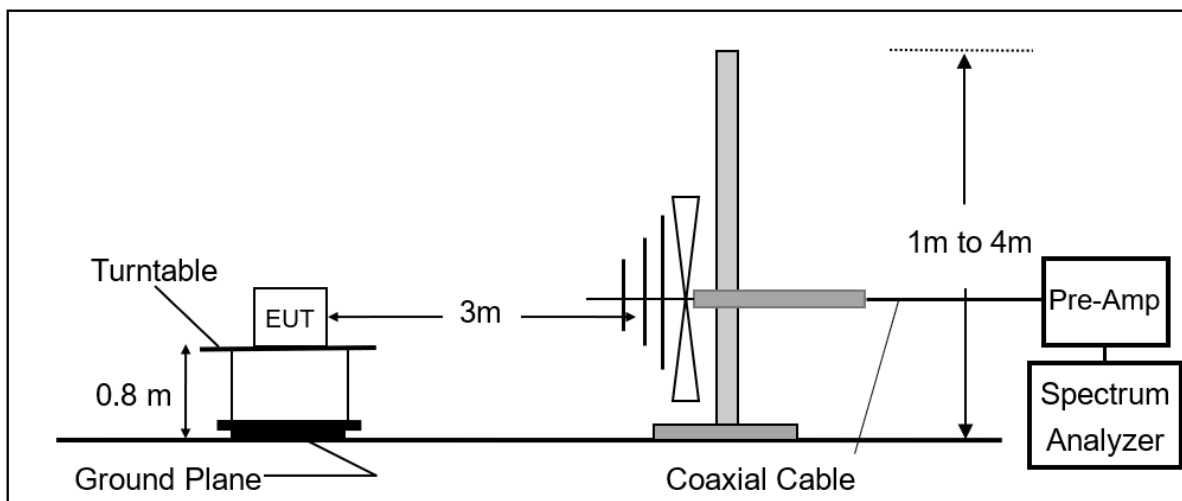
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## 5.3 Test Setup

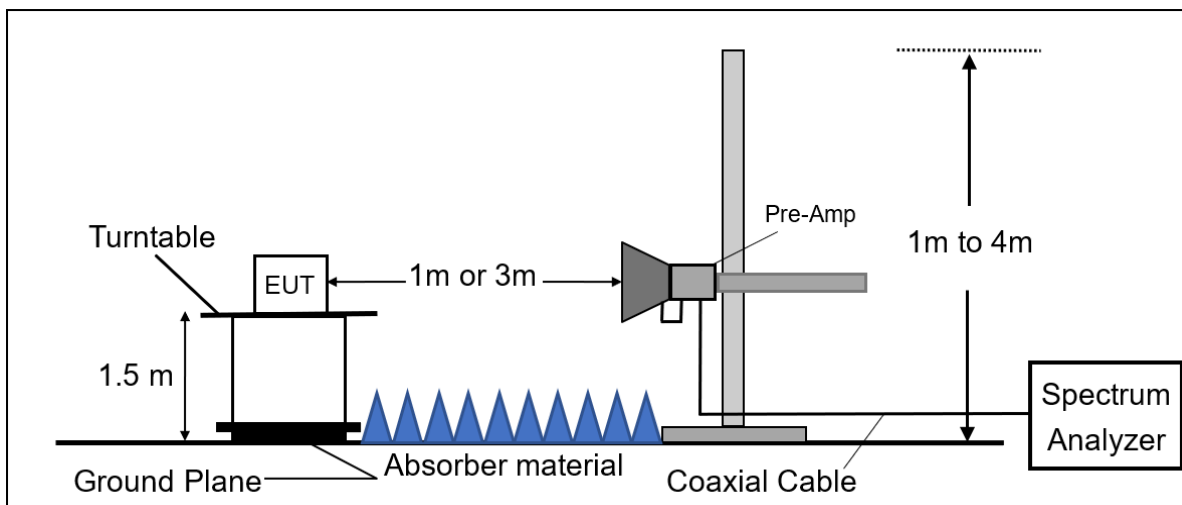
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz



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## 5.4 Measurement Procedure

1. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz
5. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW  $\geq 1/T$  (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
8. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

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## 5.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

**Where** *FS* = Field Strength

*CL* = Cable Attenuation Factor (Cable Loss)

*RA* = Reading Amplitude

*AG* = Amplifier Gain

*AF* = Antenna Factor

The limit of the emission level is expressed in dB $\mu$ V/m, which converts  $20 \cdot \log(uV/m)$

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

## 5.6 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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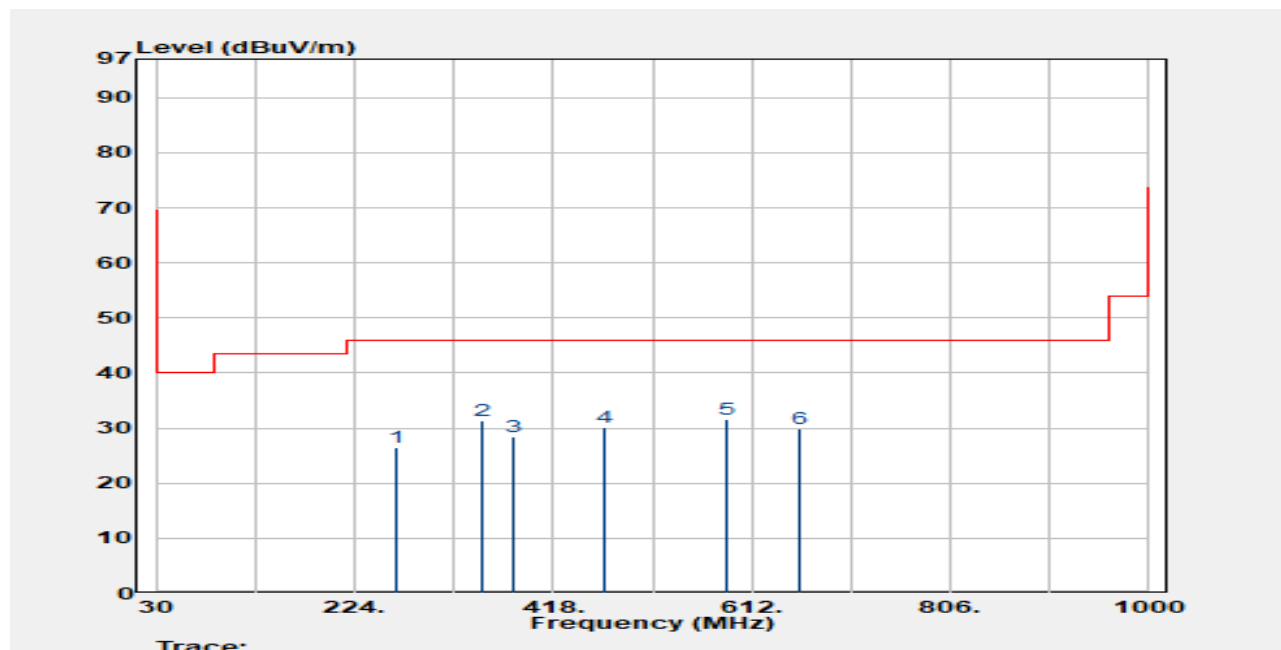
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## 5.7 Radiated Spurious Emission Measurement Result

## 5.7.1 Spurious Emission

|                |  |              |             |
|----------------|--|--------------|-------------|
| Report Number  | :TERF2303000711ER  | Test Site    | :SAC 2      |
| Operation Mode | :802.11g + BR  | Test Date    | :2023-03-22 |
| Test Frequency | :2422 + 2480 MHz   | Temp./Humi.  | :25.8/60    |
| Test Mode      | :Tx  | Antenna Pol. | :Vertical   |
| EUT Pol        | :H Plane   | Engineer     | :Ricky Chen |
| Note           | :Wi-Fi 2.4G(Antenna: W24P-U) +Bluetooth(Antenna: 146153) |              |             |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 264.740      | Peak                         | 39.60                             | -13.21       | 26.40                  | 46.00                  | -19.60       |
| 348.160      | Peak                         | 42.45                             | -11.19       | 31.27                  | 46.00                  | -14.73       |
| 379.200      | Peak                         | 38.78                             | -10.35       | 28.43                  | 46.00                  | -17.57       |
| 467.470      | Peak                         | 38.20                             | -8.03        | 30.17                  | 46.00                  | -15.83       |
| 586.780      | Peak                         | 37.15                             | -5.65        | 31.49                  | 46.00                  | -14.51       |
| 658.560      | Peak                         | 35.36                             | -5.53        | 29.82                  | 46.00                  | -16.18       |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11g + BR

Test Date :2023-03-22

Test Frequency :2422 + 2480 MHz

Temp./Humi. :25.8/60

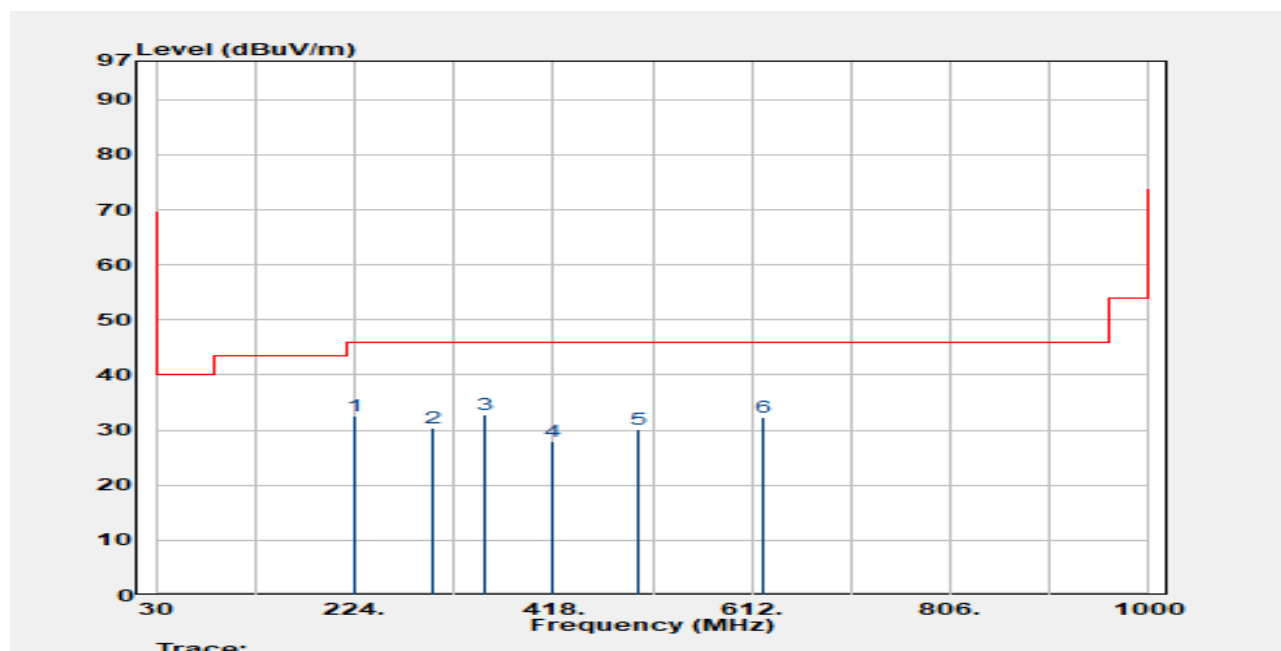
Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Ricky Chen

Note :Wi-Fi 2.4G(Antenna: W24P-U) +Bluetooth(Antenna: 146153)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 223.030      | Peak                         | 48.58                             | -16.06       | 32.53                  | 46.00                  | -13.47       |
| 299.660      | Peak                         | 42.75                             | -12.48       | 30.27                  | 46.00                  | -15.73       |
| 350.100      | Peak                         | 44.12                             | -11.24       | 32.88                  | 46.00                  | -13.12       |
| 418.000      | Peak                         | 37.46                             | -9.59        | 27.87                  | 46.00                  | -18.13       |
| 500.450      | Peak                         | 37.60                             | -7.57        | 30.02                  | 46.00                  | -15.98       |
| 622.670      | Peak                         | 37.48                             | -5.20        | 32.27                  | 46.00                  | -13.73       |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11g + BR

Test Date :2023-03-22

Test Frequency :2422 + 2480 MHz

Temp./Humi. :25.8/60

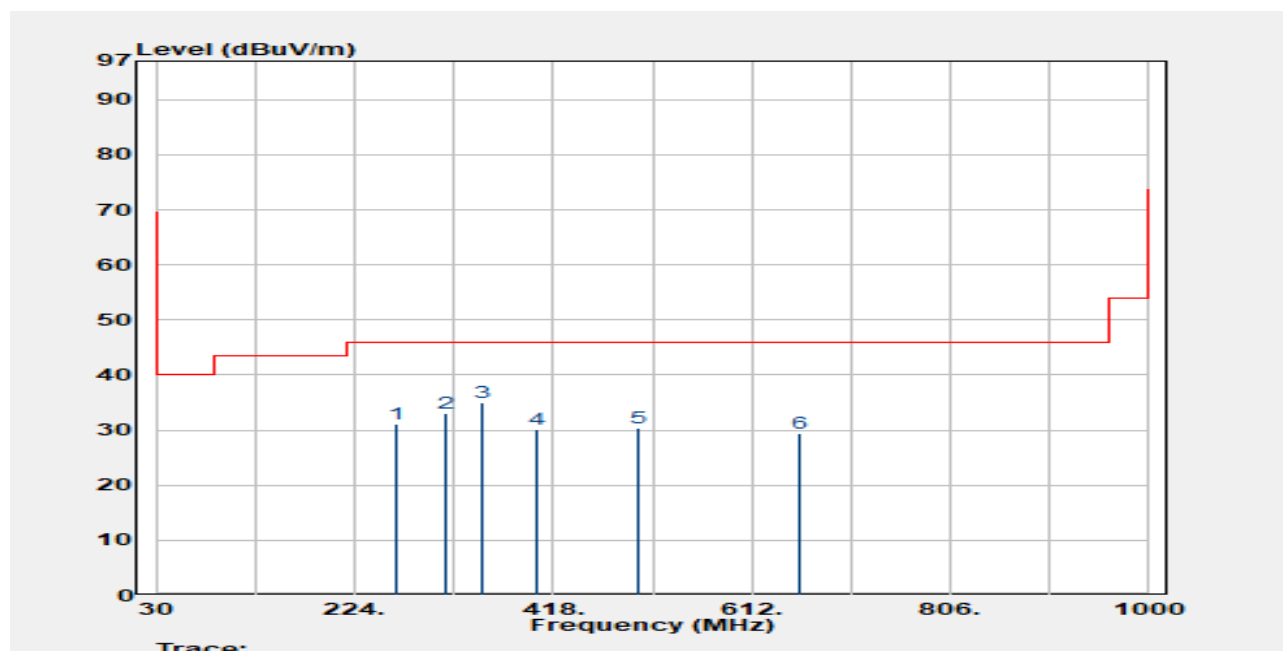
Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Ricky Chen

Note :Wi-Fi 2.4G(Antenna: W24P-U) +Bluetooth(Antenna: W24P-U)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 264.740      | Peak                         | 44.34                             | -13.21       | 31.13                  | 46.00                  | -14.87       |
| 313.240      | Peak                         | 45.04                             | -12.06       | 32.98                  | 46.00                  | -13.02       |
| 348.160      | Peak                         | 46.13                             | -11.19       | 34.94                  | 46.00                  | -11.06       |
| 401.510      | Peak                         | 39.95                             | -9.77        | 30.18                  | 46.00                  | -15.82       |
| 500.450      | Peak                         | 38.04                             | -7.57        | 30.47                  | 46.00                  | -15.53       |
| 658.560      | Peak                         | 34.89                             | -5.53        | 29.35                  | 46.00                  | -16.65       |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11g + BR

Test Date :2023-03-22

Test Frequency :2422 + 2480 MHz

Temp./Humi. :25.8/60

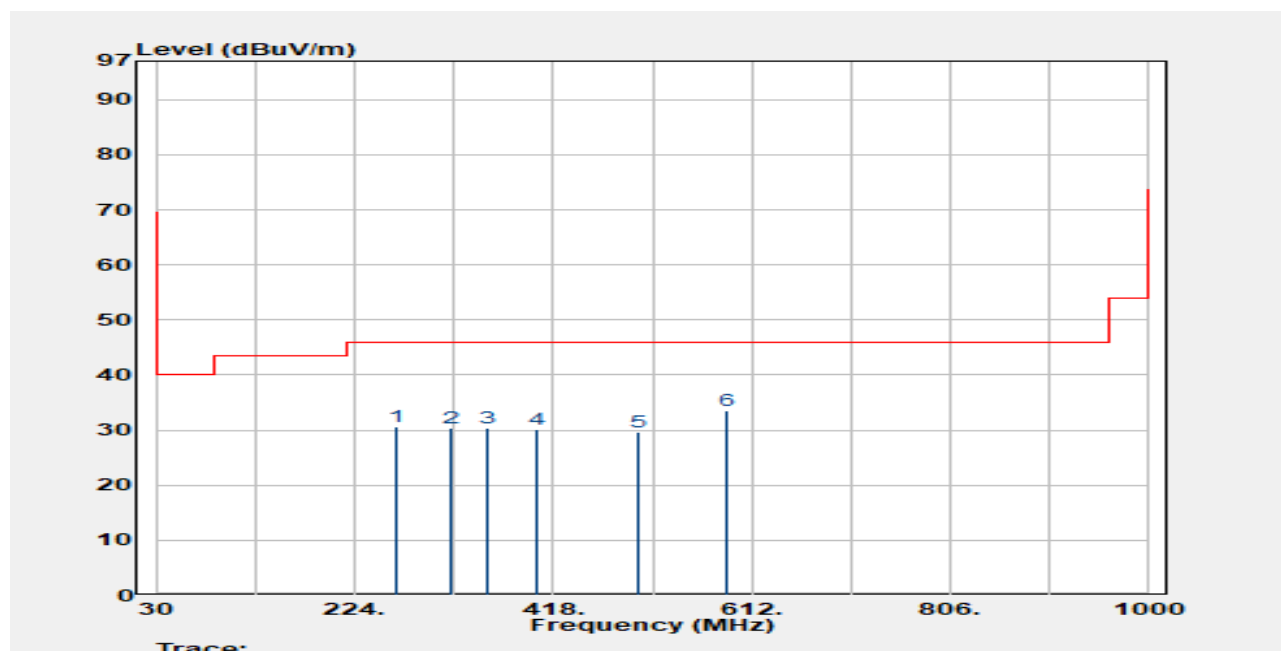
Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Ricky Chen

Note :Wi-Fi 2.4G(Antenna: W24P-U) +Bluetooth(Antenna: W24P-U)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 264.740      | Peak                         | 43.76                             | -13.21       | 30.55                  | 46.00                  | -15.45       |
| 319.060      | Peak                         | 42.35                             | -11.86       | 30.49                  | 46.00                  | -15.51       |
| 353.010      | Peak                         | 41.70                             | -11.22       | 30.48                  | 46.00                  | -15.52       |
| 401.510      | Peak                         | 40.01                             | -9.77        | 30.24                  | 46.00                  | -15.76       |
| 500.450      | Peak                         | 37.11                             | -7.57        | 29.54                  | 46.00                  | -16.46       |
| 586.780      | Peak                         | 39.10                             | -5.65        | 33.44                  | 46.00                  | -12.56       |

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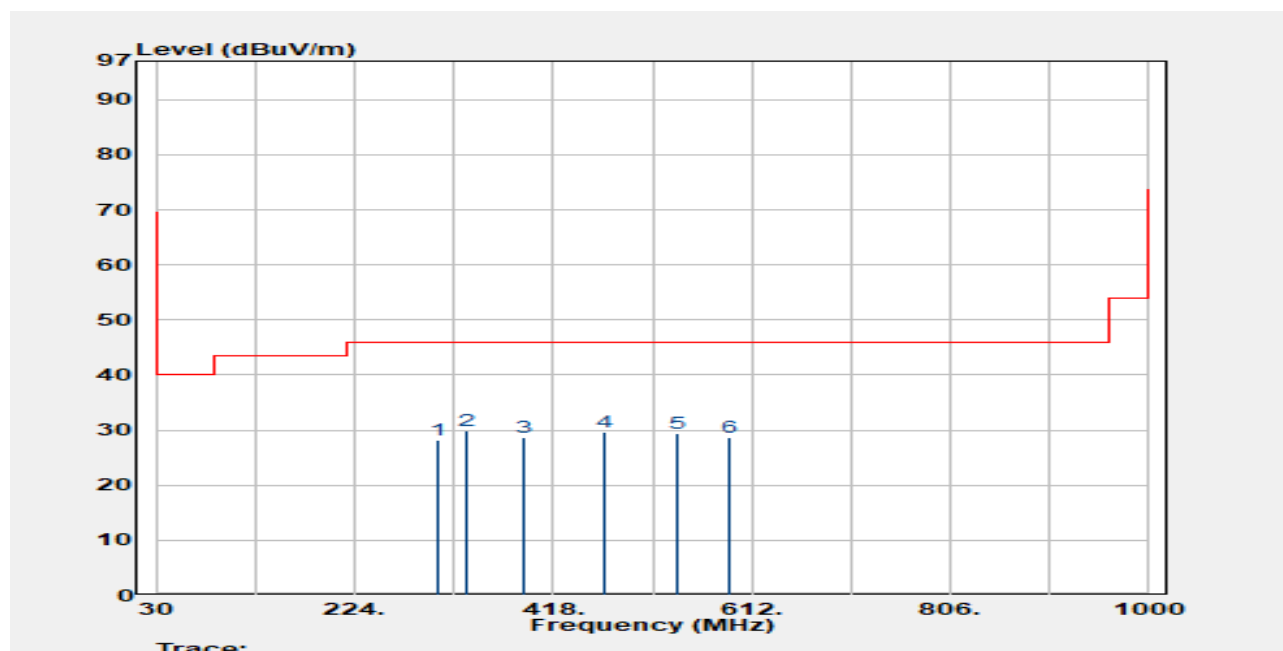
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|                |  |              |             |
|----------------|--|--------------|-------------|
| Report Number  | :TERF2303000711ER  | Test Site    | :SAC 2      |
| Operation Mode | :802.11a + BR  | Test Date    | :2023-03-22 |
| Test Frequency | :5745 + 2480 MHz   | Temp./Humi.  | :25.8/60    |
| Test Mode      | :Tx  | Antenna Pol. | :Vertical   |
| EUT Pol        | :H Plane   | Engineer     | :Ricky Chen |
| Note           | :Wi-Fi 5G(Antenna: WT32D1-KX series)+ Bluetooth(Antenna: 146153) |              |             |

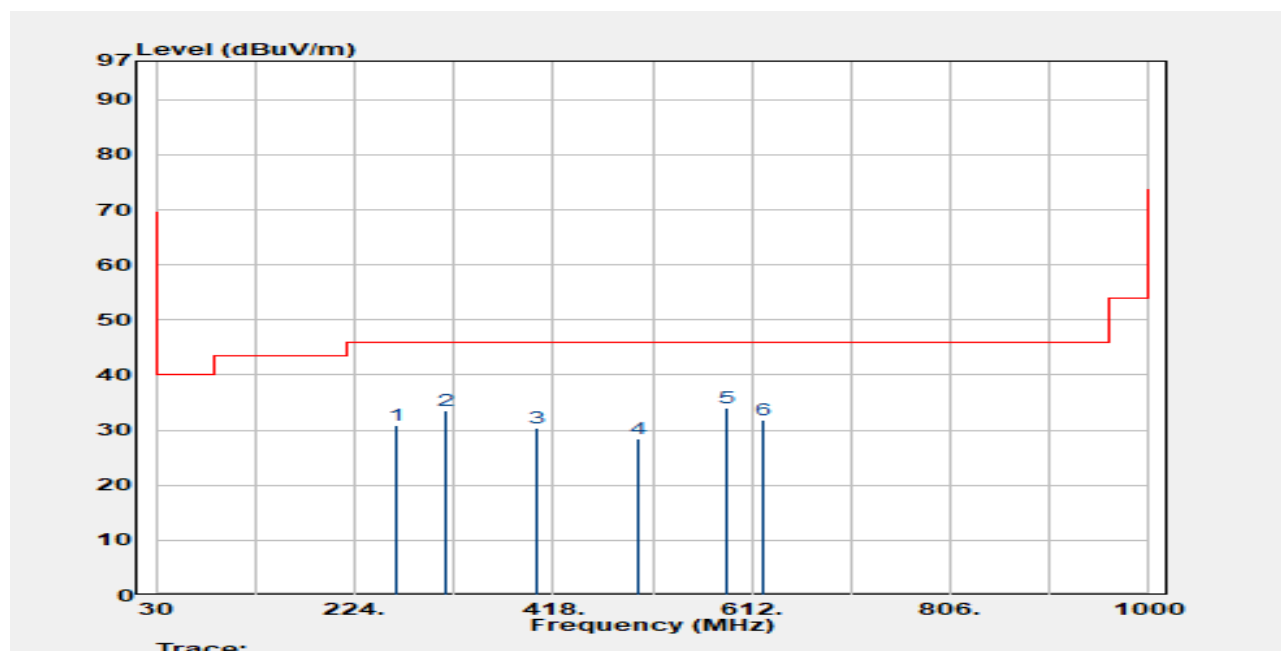


| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 306.450      | Peak                         | 40.64                             | -12.38       | 28.25                  | 46.00                  | -17.75       |
| 332.640      | Peak                         | 41.24                             | -11.28       | 29.95                  | 46.00                  | -16.05       |
| 389.870      | Peak                         | 38.53                             | -9.95        | 28.58                  | 46.00                  | -17.42       |
| 467.470      | Peak                         | 37.62                             | -8.03        | 29.59                  | 46.00                  | -16.41       |
| 539.250      | Peak                         | 36.58                             | -7.14        | 29.44                  | 46.00                  | -16.56       |
| 589.690      | Peak                         | 33.79                             | -5.19        | 28.60                  | 46.00                  | -17.40       |

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|                |  |              |             |
|----------------|--|--------------|-------------|
| Report Number  | :TERF2303000711ER  | Test Site    | :SAC 2      |
| Operation Mode | :802.11a + BR  | Test Date    | :2023-03-22 |
| Test Frequency | :5745 + 2480 MHz   | Temp./Humi.  | :25.8/60    |
| Test Mode      | :Tx  | Antenna Pol. | :Horizontal |
| EUT Pol        | :H Plane   | Engineer     | :Ricky Chen |
| Note           | :Wi-Fi 5G(Antenna: WT32D1-KX series)+ Bluetooth(Antenna: 146153) |              |             |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 264.740      | Peak                         | 44.04                             | -13.21       | 30.83                  | 46.00                  | -15.17       |
| 313.240      | Peak                         | 45.67                             | -12.06       | 33.61                  | 46.00                  | -12.39       |
| 401.510      | Peak                         | 40.15                             | -9.77        | 30.38                  | 46.00                  | -15.62       |
| 500.450      | Peak                         | 36.12                             | -7.57        | 28.55                  | 46.00                  | -17.45       |
| 586.780      | Peak                         | 39.57                             | -5.65        | 33.92                  | 46.00                  | -12.08       |
| 622.670      | Peak                         | 36.99                             | -5.20        | 31.79                  | 46.00                  | -14.21       |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11a + BR

Test Date :2023-03-22

Test Frequency :5745 + 2480 MHz

Temp./Humi. :25.8/60

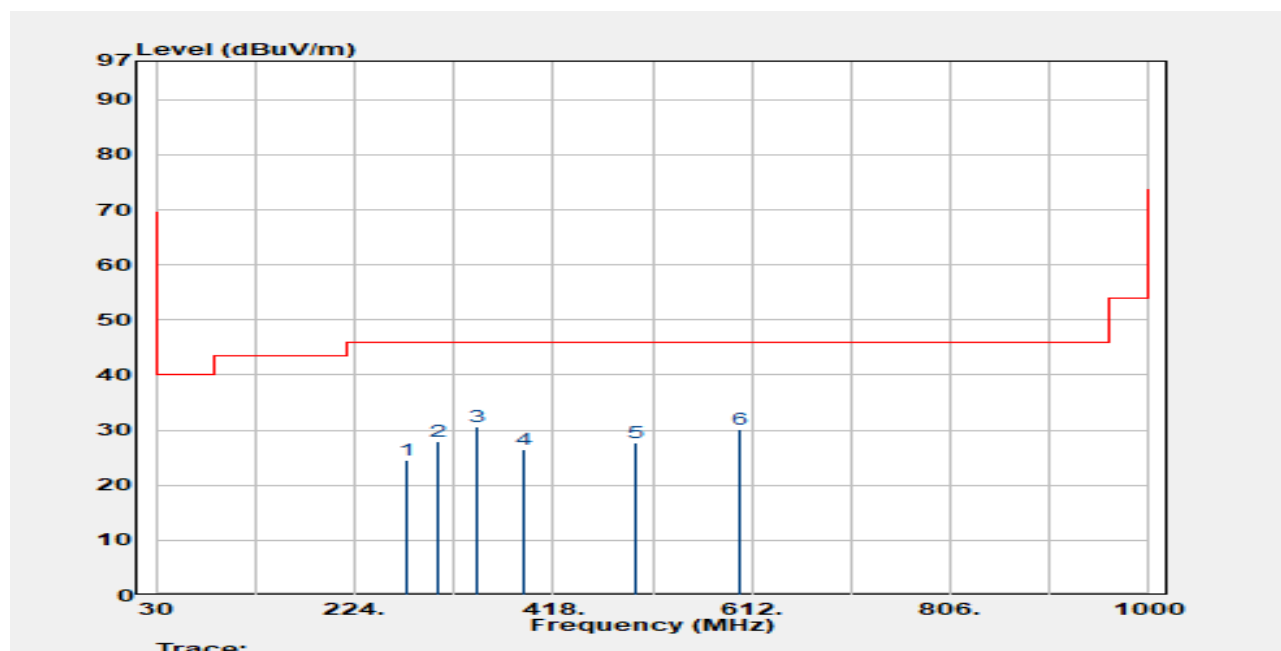
Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Ricky Chen

Note :Wi-Fi 5G(Antenna: WT32D1-KX series)+ Bluetooth(Antenna: W24P-U)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 275.410      | Peak                         | 37.50                             | -12.91       | 24.59                  | 46.00                  | -21.41       |
| 306.450      | Peak                         | 40.44                             | -12.38       | 28.06                  | 46.00                  | -17.94       |
| 344.280      | Peak                         | 41.81                             | -11.11       | 30.70                  | 46.00                  | -15.30       |
| 389.870      | Peak                         | 36.44                             | -9.95        | 26.50                  | 46.00                  | -19.50       |
| 497.540      | Peak                         | 35.43                             | -7.71        | 27.73                  | 46.00                  | -18.27       |
| 599.390      | Peak                         | 34.99                             | -4.85        | 30.13                  | 46.00                  | -15.87       |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11a + BR

Test Date :2023-03-22

Test Frequency :5745 + 2480 MHz

Temp./Humi. :25.8/60

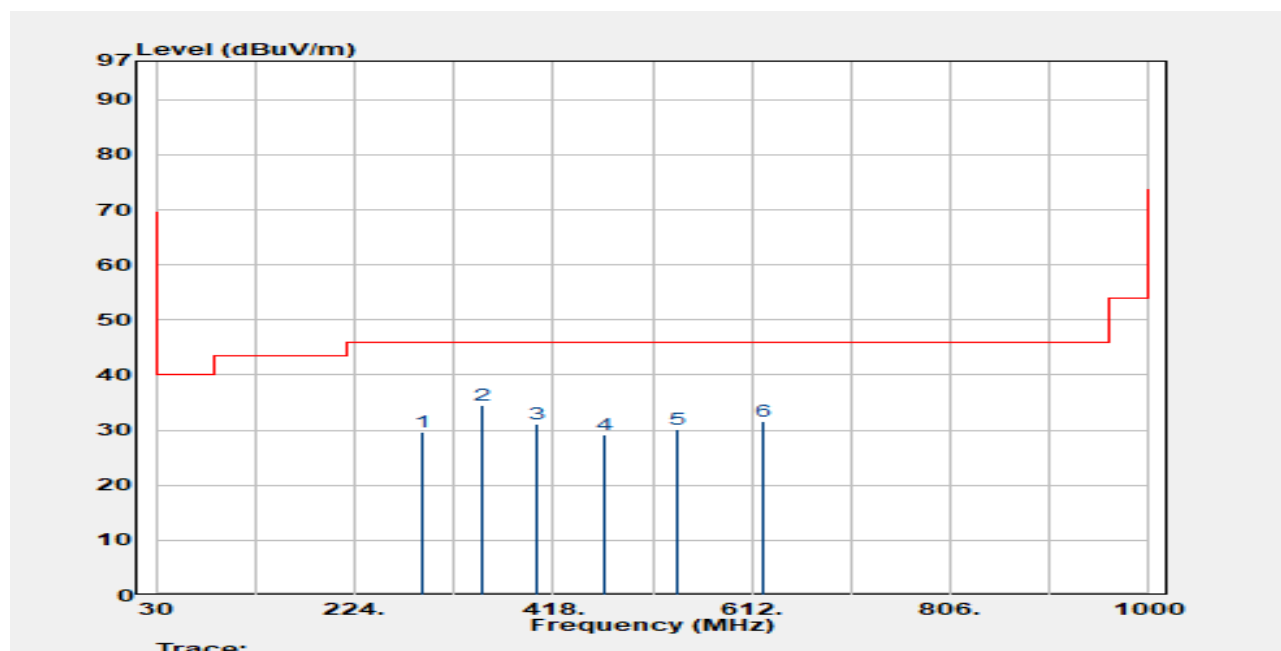
Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Ricky Chen

Note :Wi-Fi 5G(Antenna: WT32D1-KX series)+ Bluetooth(Antenna: W24P-U)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 288.990      | Peak                         | 42.12                             | -12.55       | 29.57                  | 46.00                  | -16.43       |
| 348.160      | Peak                         | 45.77                             | -11.19       | 34.58                  | 46.00                  | -11.42       |
| 401.510      | Peak                         | 40.86                             | -9.77        | 31.09                  | 46.00                  | -14.91       |
| 467.470      | Peak                         | 37.19                             | -8.03        | 29.17                  | 46.00                  | -16.83       |
| 539.250      | Peak                         | 37.22                             | -7.14        | 30.08                  | 46.00                  | -15.92       |
| 622.670      | Peak                         | 36.76                             | -5.20        | 31.55                  | 46.00                  | -14.45       |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11a + BR

Test Date :2023-03-22

Test Frequency :5240 + 2402 MHz

Temp./Humi. :25.8/60

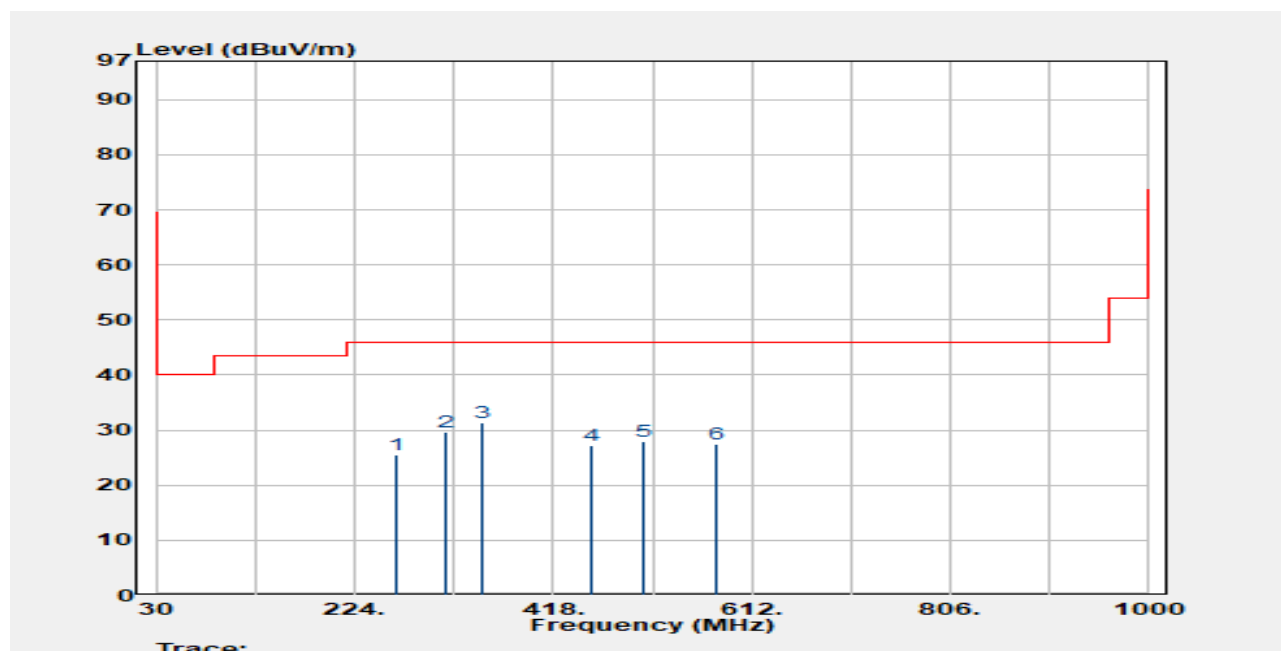
Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Ricky Chen

Note :Wi-Fi 5G(Antenna: 146153)+ Bluetooth(Antenna: 146153)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 264.740      | Peak                         | 38.64                             | -13.21       | 25.43                  | 46.00                  | -20.57       |
| 313.240      | Peak                         | 41.66                             | -12.06       | 29.60                  | 46.00                  | -16.40       |
| 348.160      | Peak                         | 42.66                             | -11.19       | 31.47                  | 46.00                  | -14.53       |
| 454.860      | Peak                         | 35.27                             | -8.12        | 27.15                  | 46.00                  | -18.85       |
| 505.300      | Peak                         | 35.72                             | -7.69        | 28.04                  | 46.00                  | -17.96       |
| 577.080      | Peak                         | 33.62                             | -6.20        | 27.42                  | 46.00                  | -18.58       |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11a + BR

Test Date :2023-03-22

Test Frequency :5240 + 2402 MHz

Temp./Humi. :25.8/60

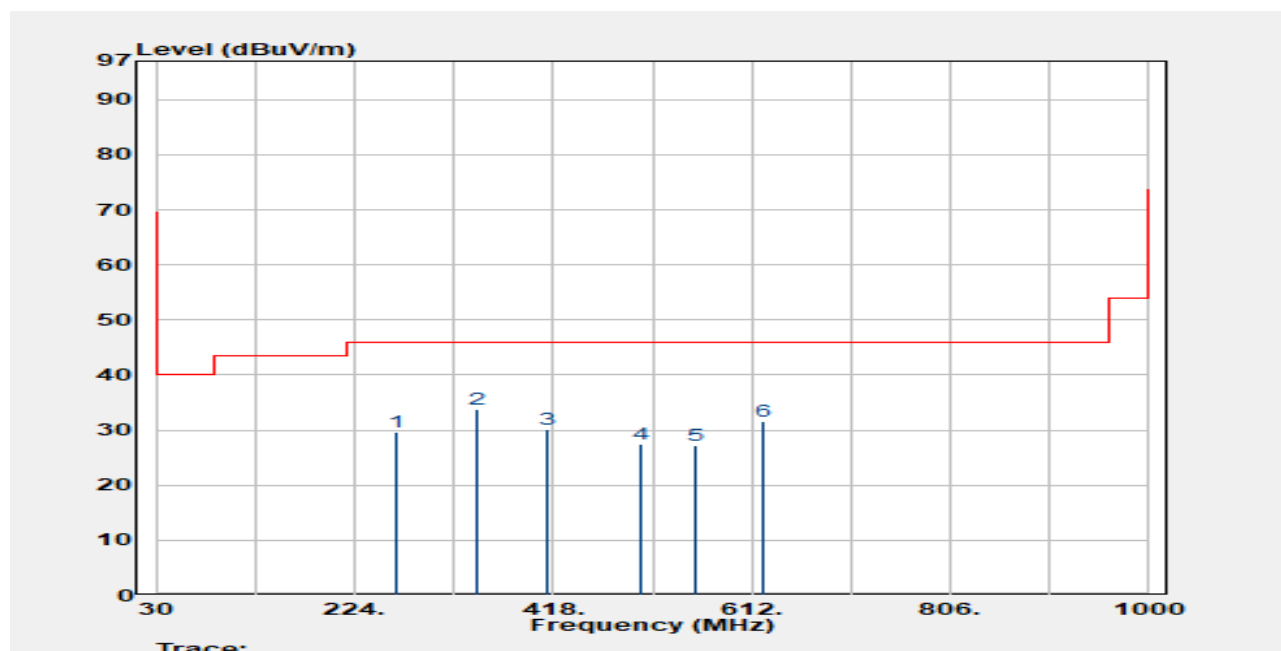
Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Ricky Chen

Note :Wi-Fi 5G(Antenna: 146153)+ Bluetooth(Antenna: 146153)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 264.740      | Peak                         | 42.90                             | -13.21       | 29.69                  | 46.00                  | -16.31       |
| 344.280      | Peak                         | 44.92                             | -11.11       | 33.81                  | 46.00                  | -12.19       |
| 413.150      | Peak                         | 39.81                             | -9.60        | 30.21                  | 46.00                  | -15.79       |
| 504.330      | Peak                         | 35.11                             | -7.68        | 27.43                  | 46.00                  | -18.57       |
| 557.680      | Peak                         | 33.69                             | -6.55        | 27.14                  | 46.00                  | -18.86       |
| 622.670      | Peak                         | 36.90                             | -5.20        | 31.69                  | 46.00                  | -14.31       |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11a + BR

Test Date :2023-03-22

Test Frequency :5240 + 2402 MHz

Temp./Humi. :25.8/60

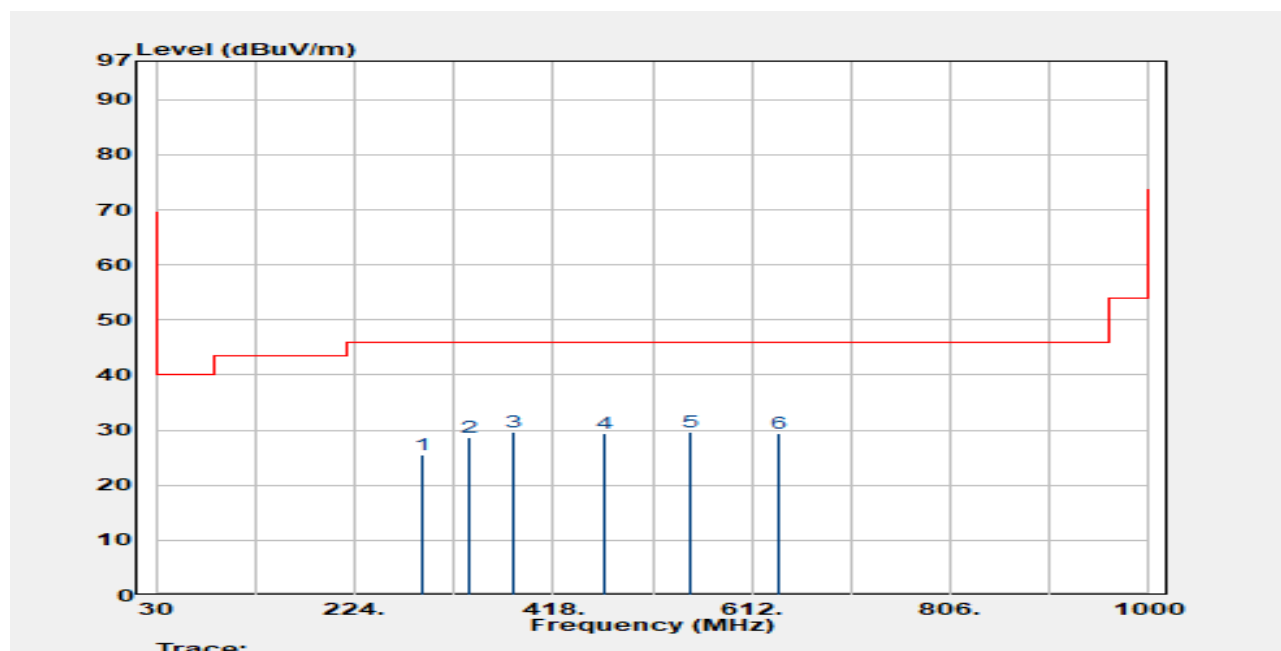
Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Ricky Chen

Note. : Wi-Fi 5G(Antenna: Type2EA\_Antenna)+Bluetooth(Antenna: Type2EA\_Antenna)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 288.990      | Peak                         | 37.97                             | -12.55       | 25.42                  | 46.00                  | -20.58       |
| 336.520      | Peak                         | 39.86                             | -11.14       | 28.72                  | 46.00                  | -17.28       |
| 379.200      | Peak                         | 39.96                             | -10.35       | 29.62                  | 46.00                  | -16.38       |
| 467.470      | Peak                         | 37.40                             | -8.03        | 29.37                  | 46.00                  | -16.63       |
| 551.860      | Peak                         | 36.40                             | -6.76        | 29.65                  | 46.00                  | -16.35       |
| 637.220      | Peak                         | 34.74                             | -5.43        | 29.30                  | 46.00                  | -16.70       |

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Member of SGS Group

Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11a + BR

Test Date :2023-03-22

Test Frequency :5240 + 2402 MHz

Temp./Humi. :25.8/60

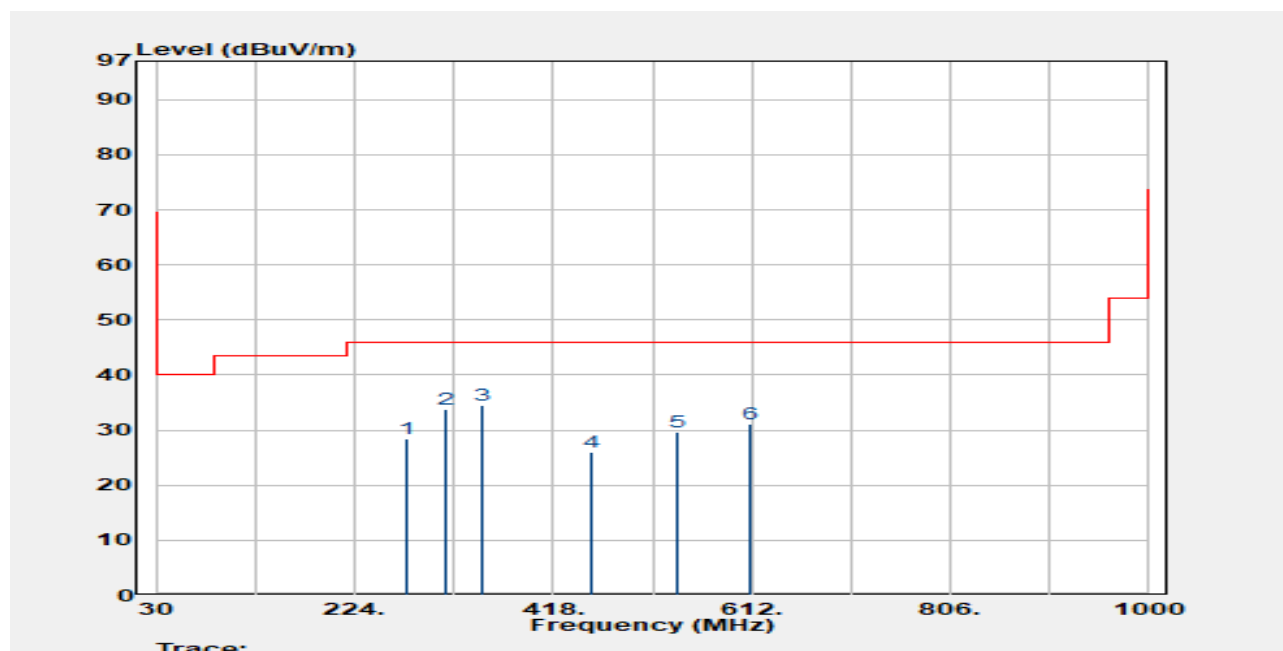
Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Ricky Chen

Note. : Wi-Fi 5G(Antenna: Type2EA\_Antenna)+Bluetooth(Antenna: Type2EA\_Antenna)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 275.410      | Peak                         | 41.29                             | -12.91       | 28.38                  | 46.00                  | -17.62       |
| 313.240      | Peak                         | 45.86                             | -12.06       | 33.80                  | 46.00                  | -12.20       |
| 348.160      | Peak                         | 45.80                             | -11.19       | 34.61                  | 46.00                  | -11.39       |
| 455.830      | Peak                         | 34.05                             | -8.13        | 25.92                  | 46.00                  | -20.08       |
| 539.250      | Peak                         | 36.86                             | -7.14        | 29.73                  | 46.00                  | -16.27       |
| 611.030      | Peak                         | 35.99                             | -4.82        | 31.17                  | 46.00                  | -14.83       |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11a + BR

Test Date :2023-03-22

Test Frequency :5745 + 2402 MHz

Temp./Humi. :25.8/60

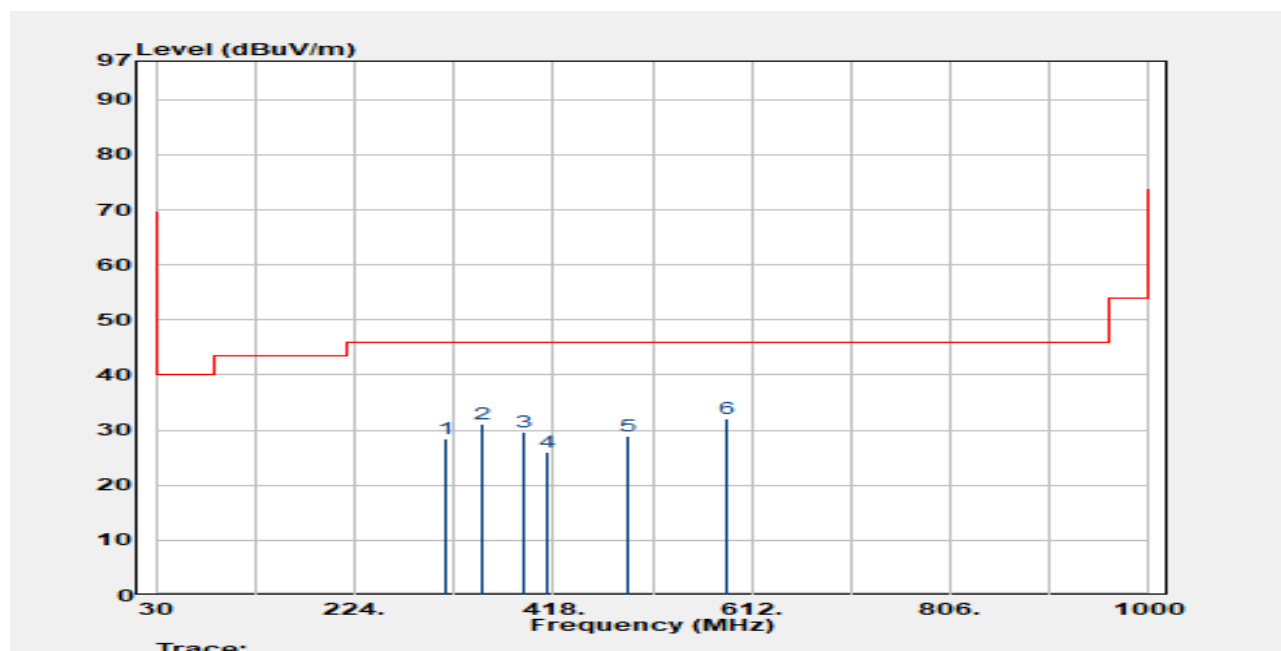
Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Ricky Chen

Note. : Wi-Fi 5G(Antenna: WT32D1-KX series)+ Bluetooth(Antenna: WT32D1-KX series)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 312.270      | Peak                         | 40.44                             | -12.10       | 28.34                  | 46.00                  | -17.66       |
| 348.160      | Peak                         | 42.21                             | -11.19       | 31.03                  | 46.00                  | -14.97       |
| 389.870      | Peak                         | 39.50                             | -9.95        | 29.56                  | 46.00                  | -16.44       |
| 413.150      | Peak                         | 35.66                             | -9.60        | 26.06                  | 46.00                  | -19.94       |
| 491.720      | Peak                         | 36.72                             | -7.84        | 28.88                  | 46.00                  | -17.12       |
| 586.780      | Peak                         | 37.70                             | -5.65        | 32.04                  | 46.00                  | -13.96       |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11a + BR

Test Date :2023-03-22

Test Frequency :5745 + 2402 MHz

Temp./Humi. :25.8/60

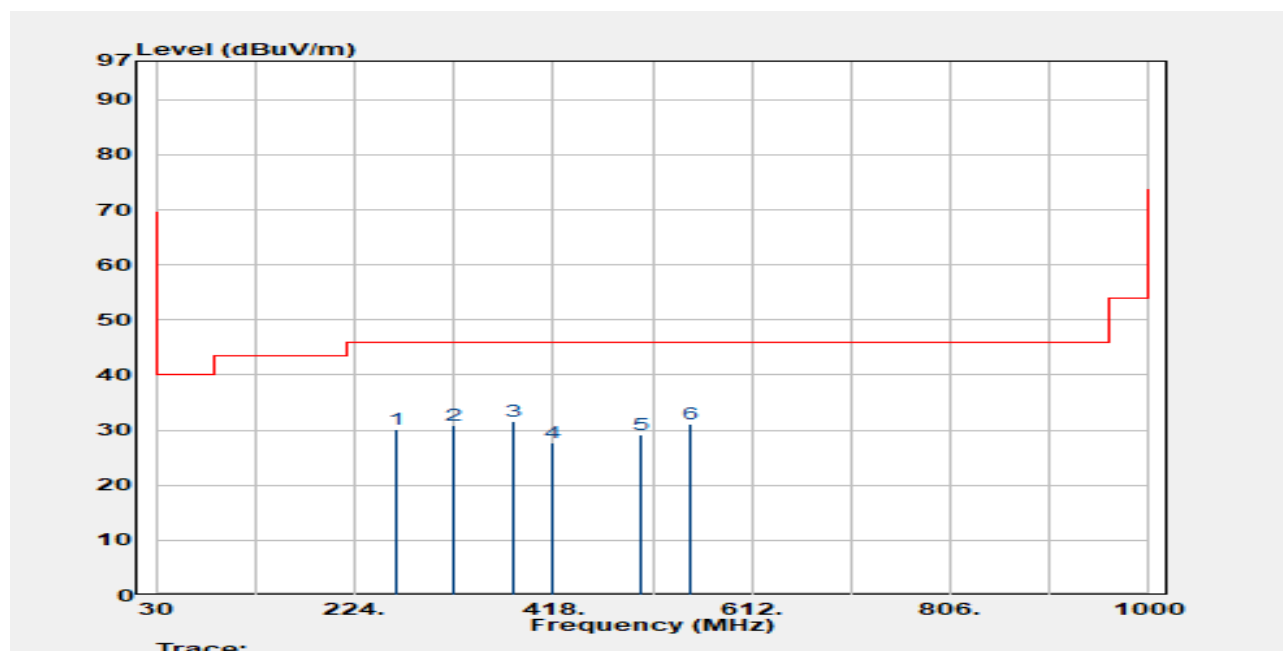
Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Ricky Chen

Note. : Wi-Fi 5G(Antenna: WT32D1-KX series)+ Bluetooth(Antenna: WT32D1-KX series)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 264.740      | Peak                         | 43.31                             | -13.21       | 30.10                  | 46.00                  | -15.90       |
| 321.000      | Peak                         | 42.54                             | -11.78       | 30.76                  | 46.00                  | -15.24       |
| 379.200      | Peak                         | 42.06                             | -10.35       | 31.71                  | 46.00                  | -14.29       |
| 416.060      | Peak                         | 37.41                             | -9.59        | 27.82                  | 46.00                  | -18.18       |
| 504.330      | Peak                         | 36.85                             | -7.68        | 29.17                  | 46.00                  | -16.83       |
| 551.860      | Peak                         | 37.98                             | -6.76        | 31.22                  | 46.00                  | -14.78       |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11g + BR

Test Date :2023-03-22

Test Frequency :2422 + 2480 MHz

Temp./Humi. :25.8/60

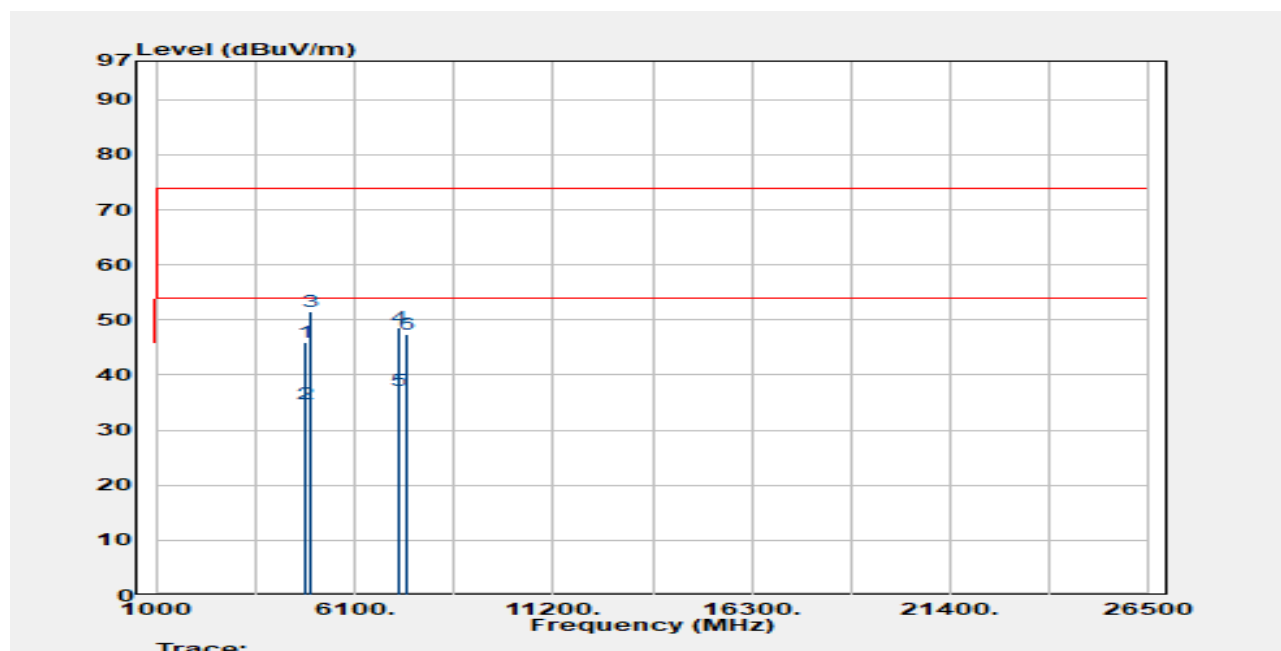
Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Ricky Chen

Note. :Wi-Fi 2.4G(Antenna: W24P-U) +Bluetooth(Antenna: 146153)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4844.000     | Peak                         | 43.46                             | 2.37         | 45.83                  | 74.00                  | -28.17       |
| 4844.000     | Average                      | 32.36                             | 2.37         | 34.73                  | 54.00                  | -19.27       |
| 4960.000     | Peak                         | 48.72                             | 2.80         | 51.52                  | 74.00                  | -22.48       |
| 7266.000     | Peak                         | 41.59                             | 7.12         | 48.71                  | 74.00                  | -25.29       |
| 7266.000     | Average                      | 30.19                             | 7.12         | 37.31                  | 54.00                  | -16.69       |
| 7440.000     | Peak                         | 39.42                             | 7.97         | 47.40                  | 74.00                  | -26.60       |

| Freq.<br>(MHz) | Detector | Peak Actual<br>FS<br>(dBμV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|----------------|----------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4960.000       | Average  | 51.52                         | -24.73                       | 26.79                        | 54.00                           | -27.21         |
| 7440.000       | Average  | 47.40                         | -24.73                       | 22.67                        | 54.00                           | -31.33         |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11g + BR

Test Date :2023-03-22

Test Frequency :2422 + 2480 MHz

Temp./Humi. :25.8/60

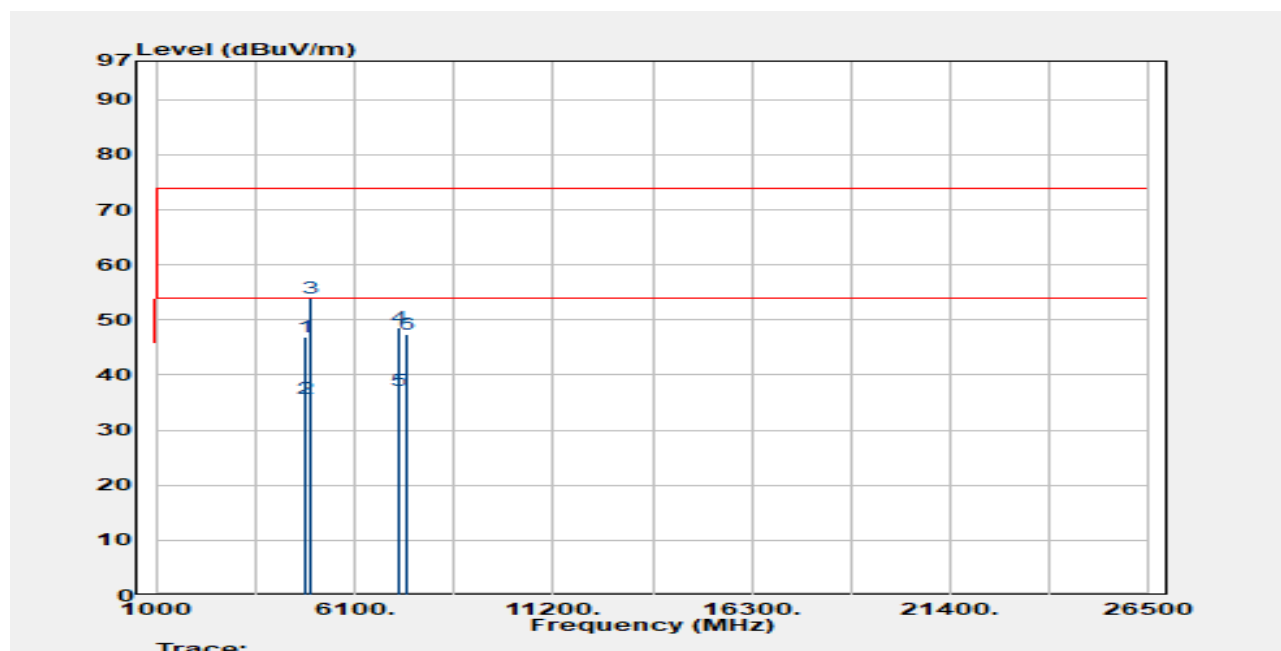
Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Ricky Chen

Note. :Wi-Fi 2.4G(Antenna: W24P-U) +Bluetooth(Antenna: 146153)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4844.000     | Peak                         | 44.53                             | 2.37         | 46.90                  | 74.00                  | -27.10       |
| 4844.000     | Average                      | 33.30                             | 2.37         | 35.67                  | 54.00                  | -18.33       |
| 4960.000     | Peak                         | 51.11                             | 2.80         | 53.91                  | 74.00                  | -20.09       |
| 7266.000     | Peak                         | 41.55                             | 7.12         | 48.67                  | 74.00                  | -25.33       |
| 7266.000     | Average                      | 30.12                             | 7.12         | 37.24                  | 54.00                  | -16.76       |
| 7440.000     | Peak                         | 39.37                             | 7.97         | 47.34                  | 74.00                  | -26.66       |

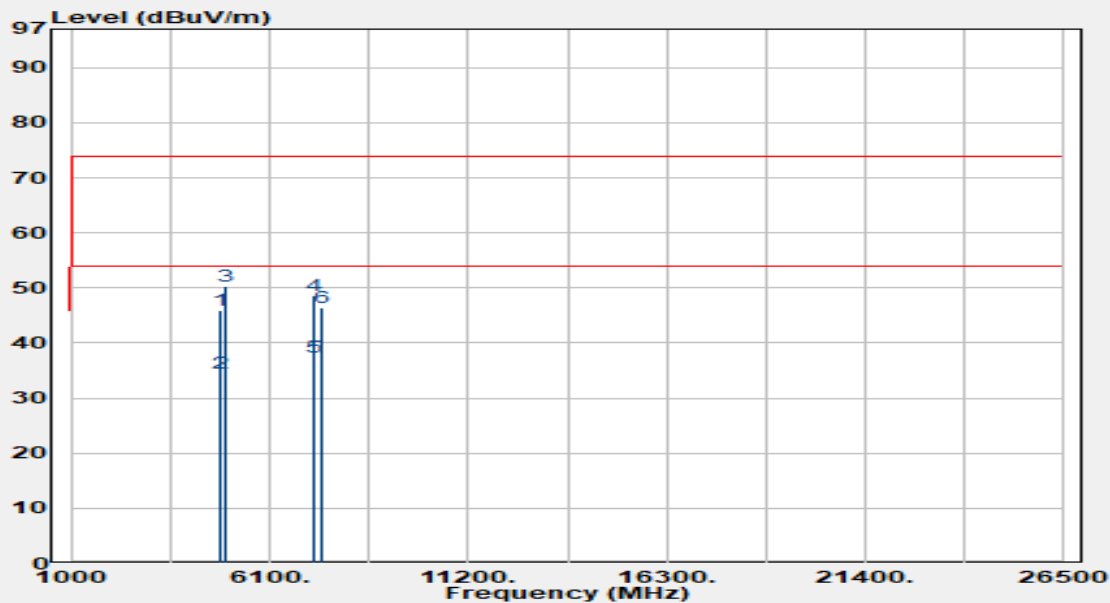
| Freq.<br>(MHz) | Detector | Peak Actual<br>FS<br>(dBμV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBμV/m) | Average<br>Limit@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|----------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4960.000       | Average  | 53.91                         | -24.73                       | 29.18                        | 54.00                           | -24.82         |
| 7440.000       | Average  | 47.34                         | -24.73                       | 22.61                        | 54.00                           | -31.39         |

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Report Number :TERF2303000711ER  
 Operation Mode :802.11g + BR  
 Test Frequency :2422 + 2480 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Note. :Wi-Fi 2.4G(Antenna: W24P-U) +Bluetooth(Antenna: W24P-U)

Test Site :SAC 2  
 Test Date :2023-03-22  
 Temp./Humi. :25.8/60  
 Antenna Pol. :Vertical  
 Engineer :Ricky Chen



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4844.000     | Peak                         | 43.49                             | 2.37         | 45.86                  | 74.00                  | -28.14       |
| 4844.000     | Average                      | 32.16                             | 2.37         | 34.53                  | 54.00                  | -19.47       |
| 4960.000     | Peak                         | 47.47                             | 2.80         | 50.26                  | 74.00                  | -23.74       |
| 7266.000     | Peak                         | 41.61                             | 7.12         | 48.73                  | 74.00                  | -25.27       |
| 7266.000     | Average                      | 30.21                             | 7.12         | 37.33                  | 54.00                  | -16.67       |
| 7440.000     | Peak                         | 38.54                             | 7.97         | 46.51                  | 74.00                  | -27.49       |

| Freq.<br>(MHz) | Detector | Peak Actual<br>FS<br>(dBuV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|----------------|----------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4960.000       | Average  | 50.26                         | -24.73                       | 25.53                        | 54.00                           | -28.47         |
| 7440.000       | Average  | 46.51                         | -24.73                       | 21.78                        | 54.00                           | -32.22         |

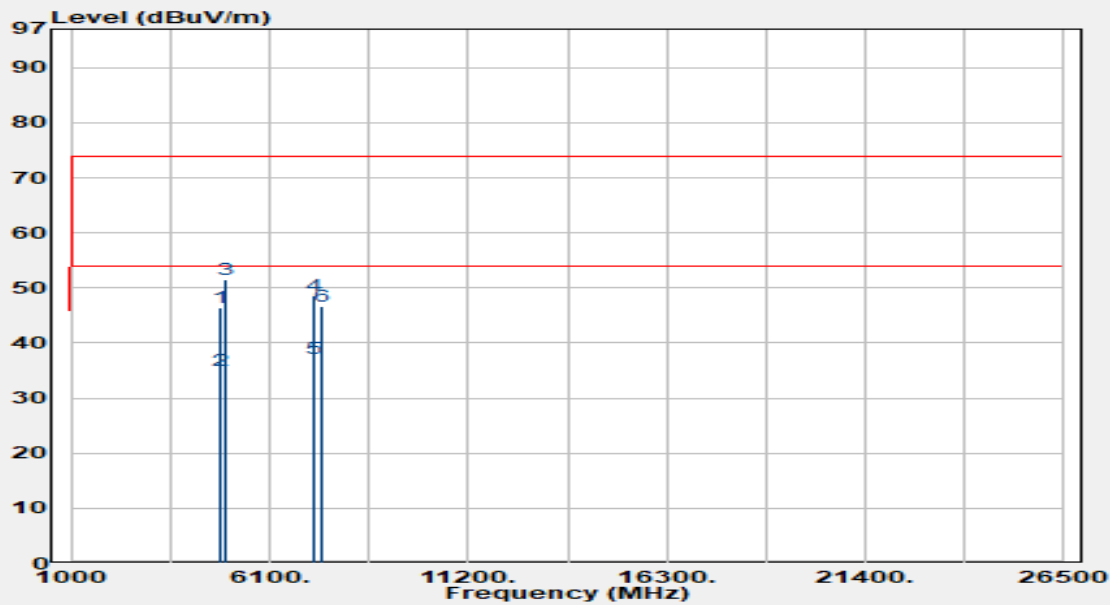
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Report Number :TERF2303000711ER  
 Operation Mode :802.11g + BR  
 Test Frequency :2422 + 2480 MHz  
 Test Mode :Tx  
 EUT Pol :H Plane  
 Note. :Wi-Fi 2.4G(Antenna: W24P-U) +Bluetooth(Antenna: W24P-U)

Test Site :SAC 2  
 Test Date :2023-03-22  
 Temp./Humi. :25.8/60  
 Antenna Pol. :Horizontal  
 Engineer :Ricky Chen



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4844.000     | Peak                         | 44.06                             | 2.37         | 46.43                  | 74.00                  | -27.57       |
| 4844.000     | Average                      | 32.67                             | 2.37         | 35.04                  | 54.00                  | -18.96       |
| 4960.000     | Peak                         | 48.85                             | 2.80         | 51.65                  | 74.00                  | -22.35       |
| 7266.000     | Peak                         | 41.43                             | 7.12         | 48.55                  | 74.00                  | -25.45       |
| 7266.000     | Average                      | 30.10                             | 7.12         | 37.22                  | 54.00                  | -16.78       |
| 7440.000     | Peak                         | 38.73                             | 7.97         | 46.71                  | 74.00                  | -27.29       |

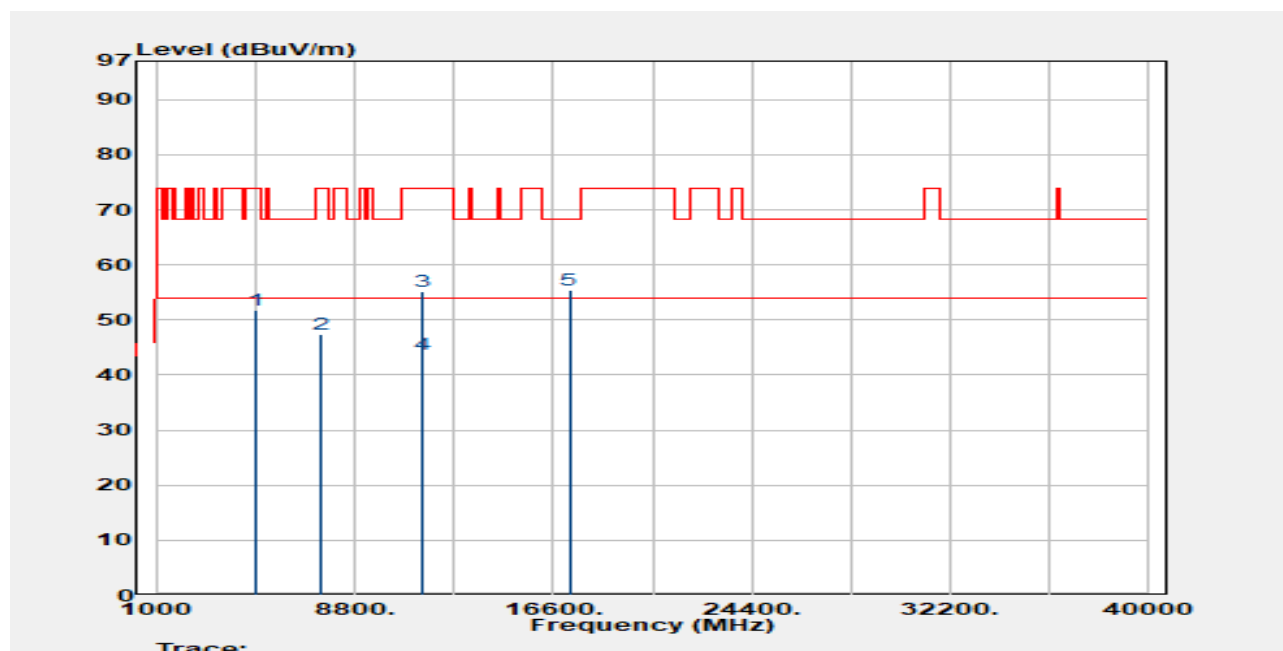
  

| Freq.<br>(MHz) | Detector | Peak Actual<br>FS<br>(dBμV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBμV/m) | Average<br>Limit@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|----------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4960.000       | Average  | 51.65                         | -24.73                       | 26.92                        | 54.00                           | -27.08         |
| 7440.000       | Average  | 46.71                         | -24.73                       | 21.98                        | 54.00                           | -32.02         |

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|                |  |              |             |
|----------------|--|--------------|-------------|
| Report Number  | :TERF2303000711ER  | Test Site    | :SAC 2      |
| Operation Mode | :802.11a + BR  | Test Date    | :2023-03-22 |
| Test Frequency | :5745 + 2480 MHz   | Temp./Humi.  | :25.8/60    |
| Test Mode      | :Tx  | Antenna Pol. | :Vertical   |
| EUT Pol        | :H Plane   | Engineer     | :Ricky Chen |
| Note.          | :Wi-Fi 5G(Antenna: WT32D1-KX series)+ Bluetooth(Antenna: 146153) |              |             |



| Freq.     | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|-----------|----------|---------------|--------|--------|--------|--------|
| MHz       | Mode     | Reading Level |        | FS     | @3m    |        |
|           | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4960.000  | Peak     | 49.01         | 2.80   | 51.81  | 74.00  | -22.19 |
| 7440.000  | Peak     | 39.39         | 7.97   | 47.36  | 74.00  | -26.64 |
| 11490.000 | Peak     | 45.14         | 10.00  | 55.14  | 74.00  | -18.86 |
| 11490.000 | Average  | 33.76         | 10.00  | 43.76  | 54.00  | -10.24 |
| 17235.000 | Peak     | 45.50         | 9.81   | 55.31  | 68.20  | -12.89 |

| Freq.    | Detector | Peak Actual | Duty Cycle | Average  | Average  | Margin |
|----------|----------|-------------|------------|----------|----------|--------|
| (MHz)    |          | FS          | Factor     | Value    | Limit@3m | (dB)   |
|          |          | (dBμV/m)    | (dB)       | (dBμV/m) | (dBμV/m) |        |
| 4960.000 | Average  | 51.81       | -24.73     | 27.08    | 54.00    | -26.92 |
| 7440.000 | Average  | 47.36       | -24.73     | 22.63    | 54.00    | -31.37 |

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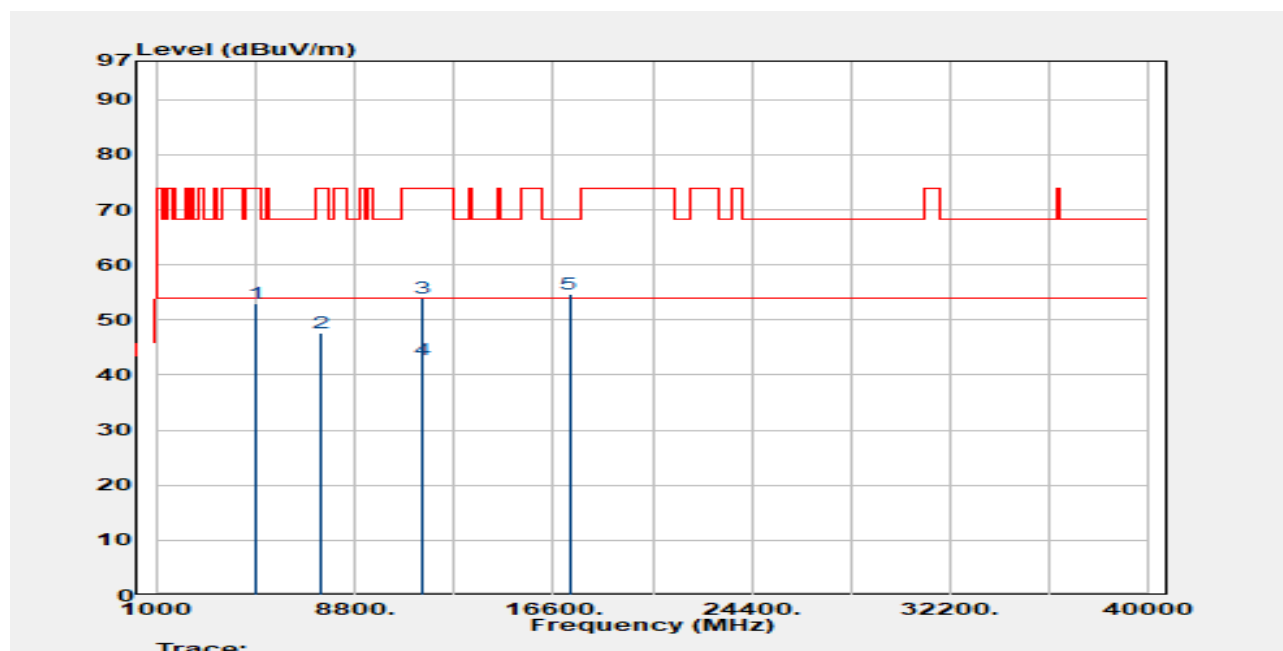
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|                |  |              |             |
|----------------|--|--------------|-------------|
| Report Number  | :TERF2303000711ER  | Test Site    | :SAC 2      |
| Operation Mode | :802.11a + BR  | Test Date    | :2023-03-22 |
| Test Frequency | :5745 + 2480 MHz   | Temp./Humi.  | :25.8/60    |
| Test Mode      | :Tx  | Antenna Pol. | :Horizontal |
| EUT Pol        | :H Plane   | Engineer     | :Ricky Chen |
| Note.          | :Wi-Fi 5G(Antenna: WT32D1-KX series)+ Bluetooth(Antenna: 146153) |              |             |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4960.000     | Peak                         | 50.09                             | 2.80         | 52.89                  | 74.00                  | -21.11       |
| 7440.000     | Peak                         | 39.75                             | 7.97         | 47.72                  | 74.00                  | -26.28       |
| 11490.000    | Peak                         | 43.96                             | 10.00        | 53.96                  | 74.00                  | -20.04       |
| 11490.000    | Average                      | 32.90                             | 10.00        | 42.90                  | 54.00                  | -11.10       |
| 17235.000    | Peak                         | 44.88                             | 9.81         | 54.69                  | 68.20                  | -13.51       |

| Freq.<br>(MHz) | Detector | Peak Actual<br>FS<br>(dBμV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|----------------|----------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4960.000       | Average  | 52.89                         | -24.73                       | 28.16                        | 54.00                           | -25.84         |
| 7440.000       | Average  | 47.72                         | -24.73                       | 22.99                        | 54.00                           | -31.01         |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11a + BR

Test Date :2023-03-22

Test Frequency :5745 + 2480 MHz

Temp./Humi. :25.8/60

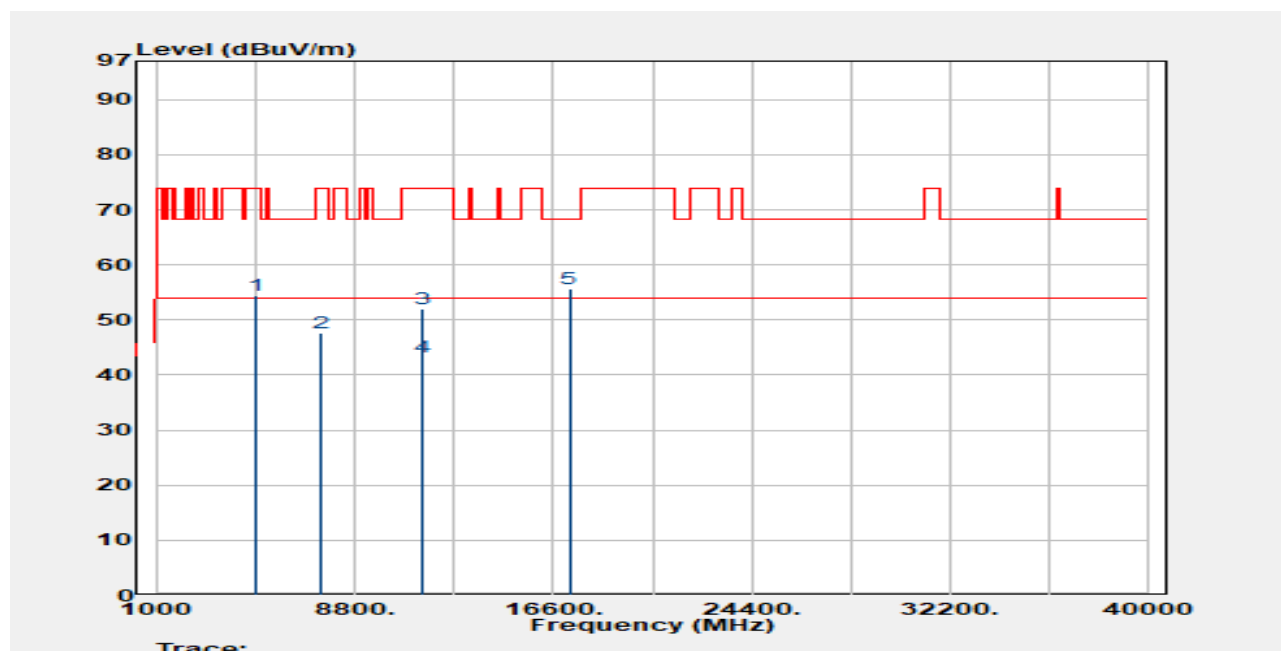
Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Ricky Chen

Note. :Wi-Fi 5G(Antenna: WT32D1-KX series)+ Bluetooth(Antenna: W24P-U)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4960.000     | Peak                         | 51.57                             | 2.80         | 54.37                  | 74.00                  | -19.63       |
| 7440.000     | Peak                         | 39.61                             | 7.97         | 47.59                  | 74.00                  | -26.41       |
| 11490.000    | Peak                         | 42.12                             | 10.00        | 52.11                  | 74.00                  | -21.89       |
| 11490.000    | Average                      | 33.25                             | 10.00        | 43.25                  | 54.00                  | -10.75       |
| 17235.000    | Peak                         | 45.80                             | 9.81         | 55.60                  | 68.20                  | -12.60       |

| Freq.<br>(MHz) | Detector | Peak Actual<br>FS<br>(dBμV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|----------------|----------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4960.000       | Average  | 54.37                         | -24.73                       | 29.64                        | 54.00                           | -24.36         |
| 7440.000       | Average  | 47.59                         | -24.73                       | 22.86                        | 54.00                           | -31.14         |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11a + BR

Test Date :2023-03-22

Test Frequency :5745 + 2480 MHz

Temp./Humi. :25.8/60

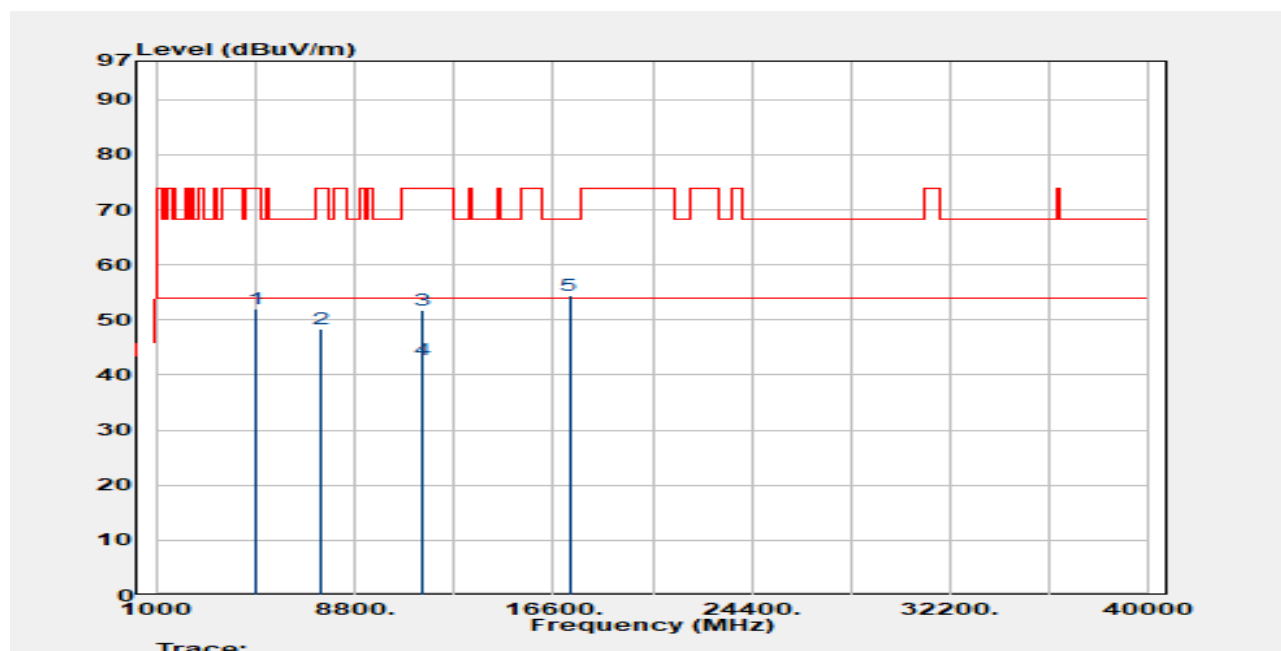
Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Ricky Chen

Note. :Wi-Fi 5G(Antenna: WT32D1-KX series)+ Bluetooth(Antenna: W24P-U)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4960.000     | Peak                         | 49.11                             | 2.80         | 51.90                  | 74.00                  | -22.10       |
| 7440.000     | Peak                         | 40.32                             | 7.97         | 48.30                  | 74.00                  | -25.70       |
| 11490.000    | Peak                         | 41.76                             | 10.00        | 51.76                  | 74.00                  | -22.24       |
| 11490.000    | Average                      | 32.83                             | 10.00        | 42.83                  | 54.00                  | -11.17       |
| 17235.000    | Peak                         | 44.77                             | 9.81         | 54.57                  | 68.20                  | -13.63       |

| Freq.<br>(MHz) | Detector | Peak Actual<br>FS<br>(dBμV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|----------------|----------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4960.000       | Average  | 51.90                         | -24.73                       | 27.17                        | 54.00                           | -26.83         |
| 7440.000       | Average  | 48.30                         | -24.73                       | 23.57                        | 54.00                           | -30.43         |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11a + BR

Test Date :2023-03-22

Test Frequency :5240 + 2402 MHz

Temp./Humi. :25.8/60

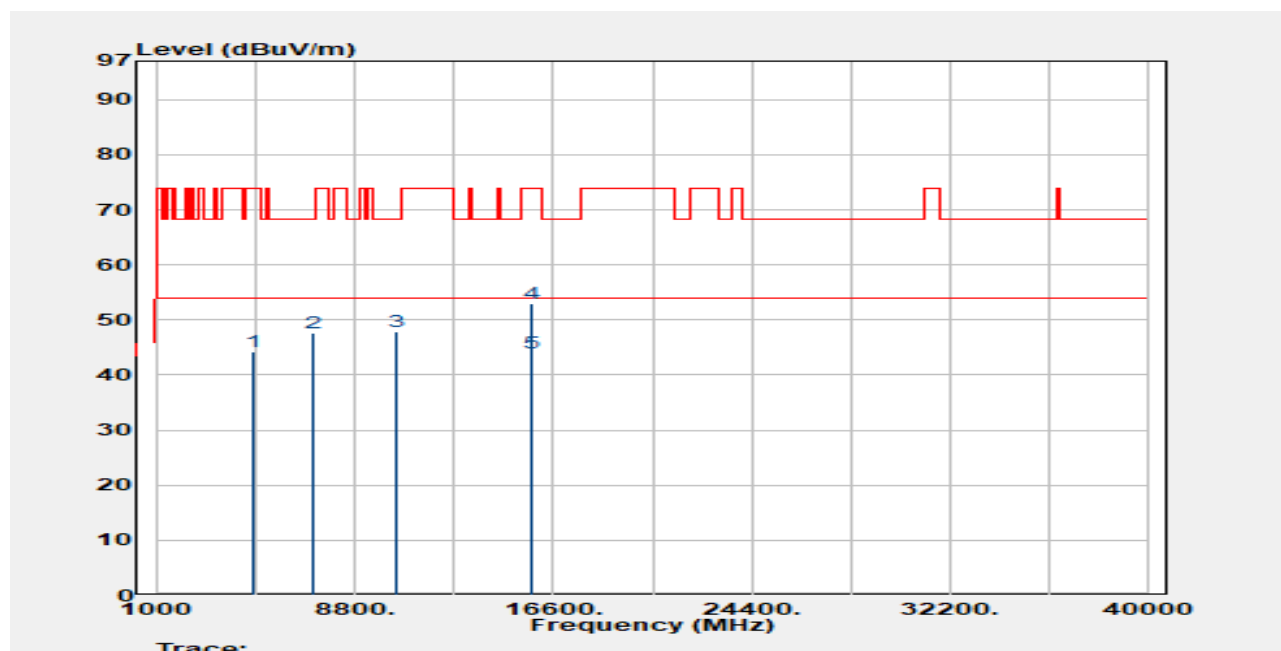
Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Ricky Chen

Note. :Wi-Fi 5G(Antenna: 146153)+ Bluetooth(Antenna: 146153)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4804.000     | Peak                         | 42.08                             | 2.10         | 44.18                  | 74.00                  | -29.82       |
| 7206.000     | Peak                         | 40.19                             | 7.56         | 47.75                  | 68.20                  | -20.45       |
| 10480.000    | Peak                         | 40.84                             | 7.16         | 48.00                  | 68.20                  | -20.20       |
| 15720.000    | Peak                         | 42.76                             | 10.33        | 53.08                  | 74.00                  | -20.92       |
| 15720.000    | Average                      | 33.60                             | 10.33        | 43.93                  | 54.00                  | -10.07       |

| Freq.<br>(MHz) | Detector | Peak Actual<br>FS<br>(dBuV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|----------------|----------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4804.000       | Average  | 44.18                         | -25.04                       | 19.14                        | 54.00                           | -34.86         |
| 7206.000       | Average  | 47.75                         | -25.04                       | 22.71                        | 54.00                           | -31.29         |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11a + BR

Test Date :2023-03-22

Test Frequency :5240 + 2402 MHz

Temp./Humi. :25.8/60

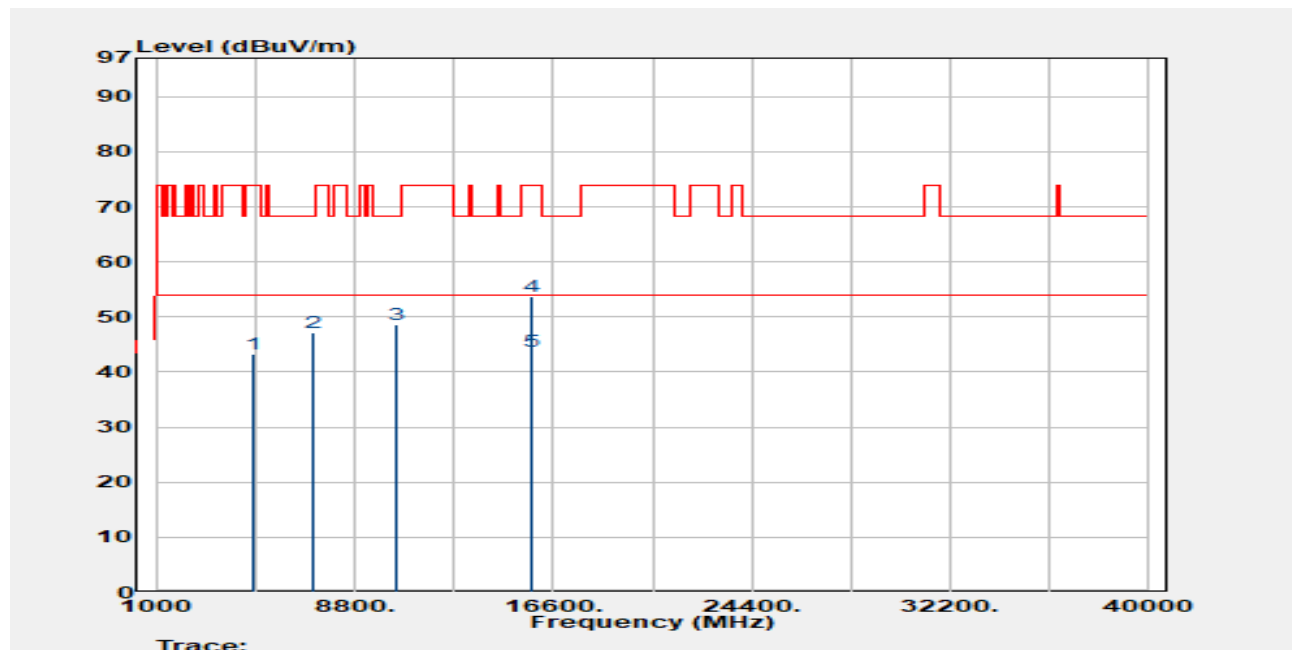
Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Ricky Chen

Note. :Wi-Fi 5G(Antenna: 146153)+ Bluetooth(Antenna: 146153)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4804.000     | Peak                         | 41.29                             | 2.10         | 43.39                  | 74.00                  | -30.61       |
| 7206.000     | Peak                         | 39.57                             | 7.56         | 47.13                  | 68.20                  | -21.07       |
| 10480.000    | Peak                         | 41.50                             | 7.16         | 48.66                  | 68.20                  | -19.54       |
| 15720.000    | Peak                         | 43.47                             | 10.33        | 53.80                  | 74.00                  | -20.20       |
| 15720.000    | Average                      | 33.53                             | 10.33        | 43.86                  | 54.00                  | -10.14       |

| Freq.<br>(MHz) | Detector | Peak Actual<br>FS<br>(dBuV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|----------------|----------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4804.000       | Average  | 43.39                         | -25.04                       | 18.35                        | 54.00                           | -35.65         |
| 7206.000       | Average  | 47.13                         | -25.04                       | 22.09                        | 54.00                           | -31.91         |

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Report Number :TERF2303000711ER

Operation Mode :802.11a + BR

Test Frequency :5240 + 2402 MHz

Test Mode :Tx

EUT Pol :H Plane

Note. : Wi-Fi 5G(Antenna: Type2EA\_Antenna)+Bluetooth(Antenna: Type2EA\_Antenna)

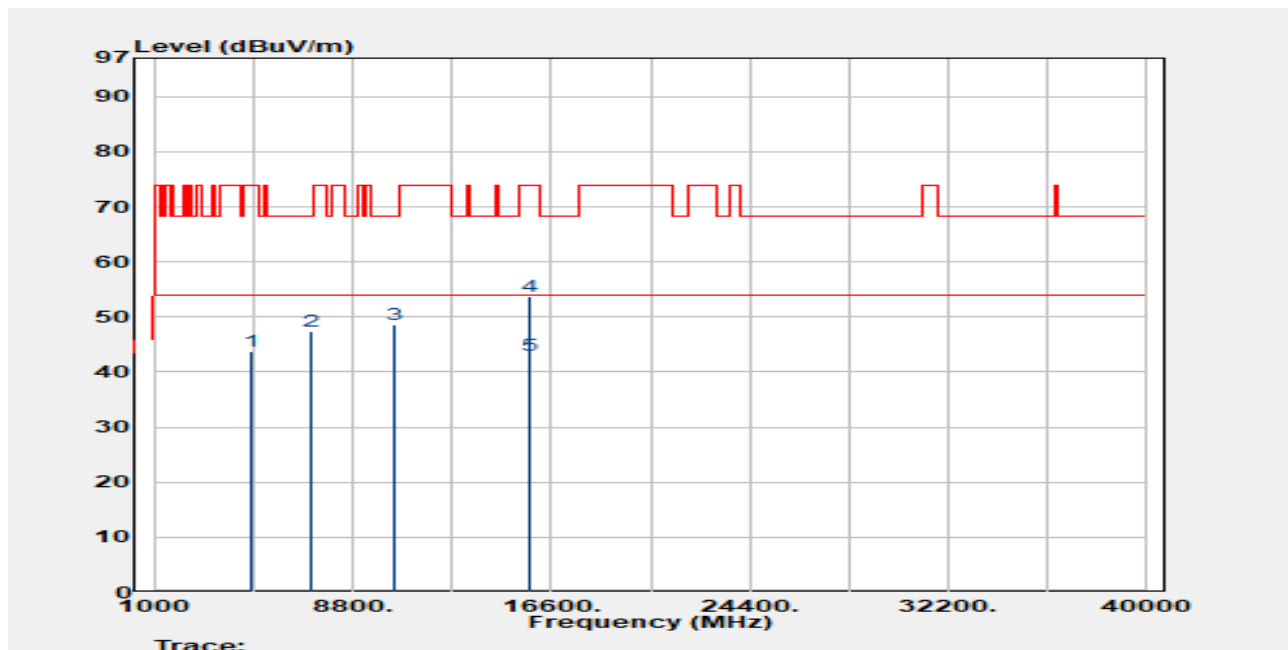
Test Site :SAC 2

Test Date :2023-03-22

Temp./Humi. :25.8/60

Antenna Pol. :Vertical

Engineer :Ricky Chen



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4804.000     | Peak                         | 41.71                             | 2.10         | 43.81                  | 74.00                  | -30.19       |
| 7206.000     | Peak                         | 39.82                             | 7.56         | 47.38                  | 68.20                  | -20.82       |
| 10480.000    | Peak                         | 41.55                             | 7.16         | 48.71                  | 68.20                  | -19.49       |
| 15720.000    | Peak                         | 43.43                             | 10.33        | 53.75                  | 74.00                  | -20.25       |
| 15720.000    | Average                      | 32.61                             | 10.33        | 42.94                  | 54.00                  | -11.06       |

| Freq.<br>(MHz) | Detector | Peak Actual<br>FS<br>(dBuV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|----------------|----------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4804.000       | Average  | 43.81                         | -25.04                       | 18.77                        | 54.00                           | -35.23         |
| 7206.000       | Average  | 47.38                         | -25.04                       | 22.34                        | 54.00                           | -31.66         |

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Report Number :TERF2303000711ER

Operation Mode :802.11a + BR

Test Frequency :5240 + 2402 MHz

Test Mode :Tx

EUT Pol :H Plane

Note. : Wi-Fi 5G(Antenna: Type2EA\_Antenna)+Bluetooth(Antenna: Type2EA\_Antenna)

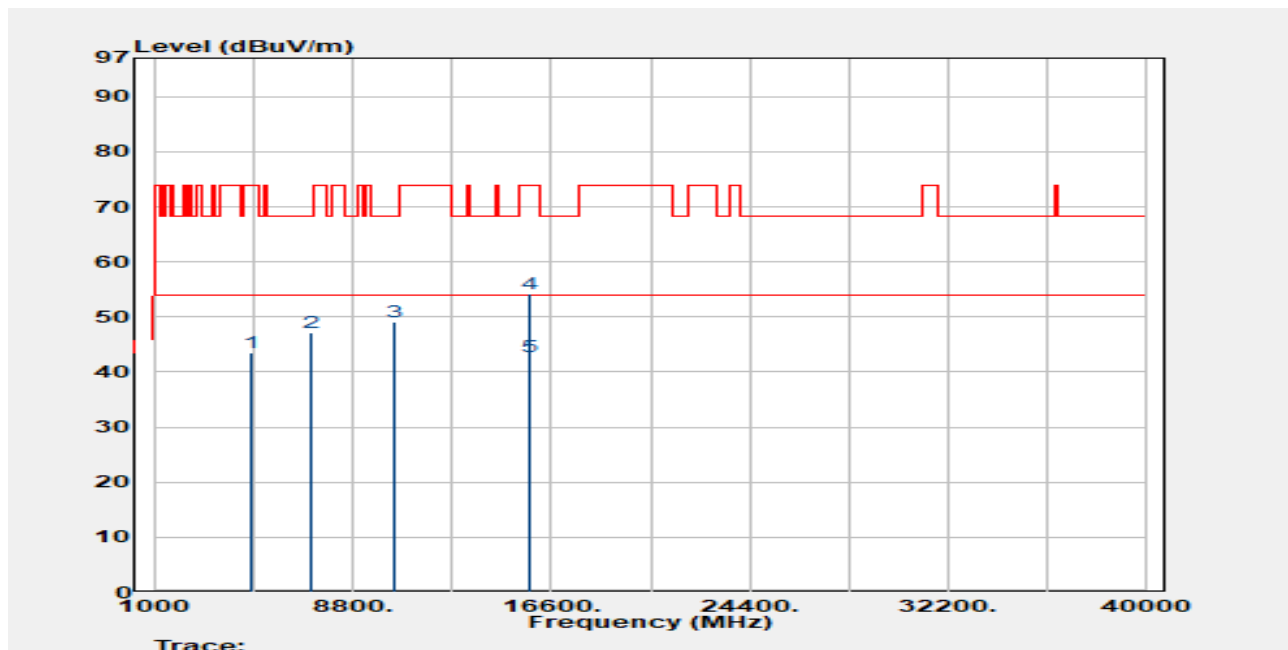
Test Site :SAC 2

Test Date :2023-03-22

Temp./Humi. :25.8/60

Antenna Pol. :Horizontal

Engineer :Ricky Chen



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4804.000     | Peak                         | 41.44                             | 2.10         | 43.54                  | 74.00                  | -30.46       |
| 7206.000     | Peak                         | 39.54                             | 7.56         | 47.10                  | 68.20                  | -21.10       |
| 10480.000    | Peak                         | 41.91                             | 7.16         | 49.06                  | 68.20                  | -19.14       |
| 15720.000    | Peak                         | 43.80                             | 10.33        | 54.12                  | 74.00                  | -19.88       |
| 15720.000    | Average                      | 32.42                             | 10.33        | 42.75                  | 54.00                  | -11.25       |

| Freq.<br>(MHz) | Detector | Peak Actual<br>FS<br>(dBμV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|----------------|----------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4804.000       | Average  | 43.54                         | -25.04                       | 18.50                        | 54.00                           | -35.50         |
| 7206.000       | Average  | 47.10                         | -25.04                       | 22.06                        | 54.00                           | -31.94         |

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Report Number :TERF2303000711ER

Operation Mode :802.11a + BR

Test Frequency :5745 + 2402 MHz

Test Mode :Tx

EUT Pol :H Plane

Note. : Wi-Fi 5G(Antenna: WT32D1-KX series)+ Bluetooth(Antenna: WT32D1-KX series)

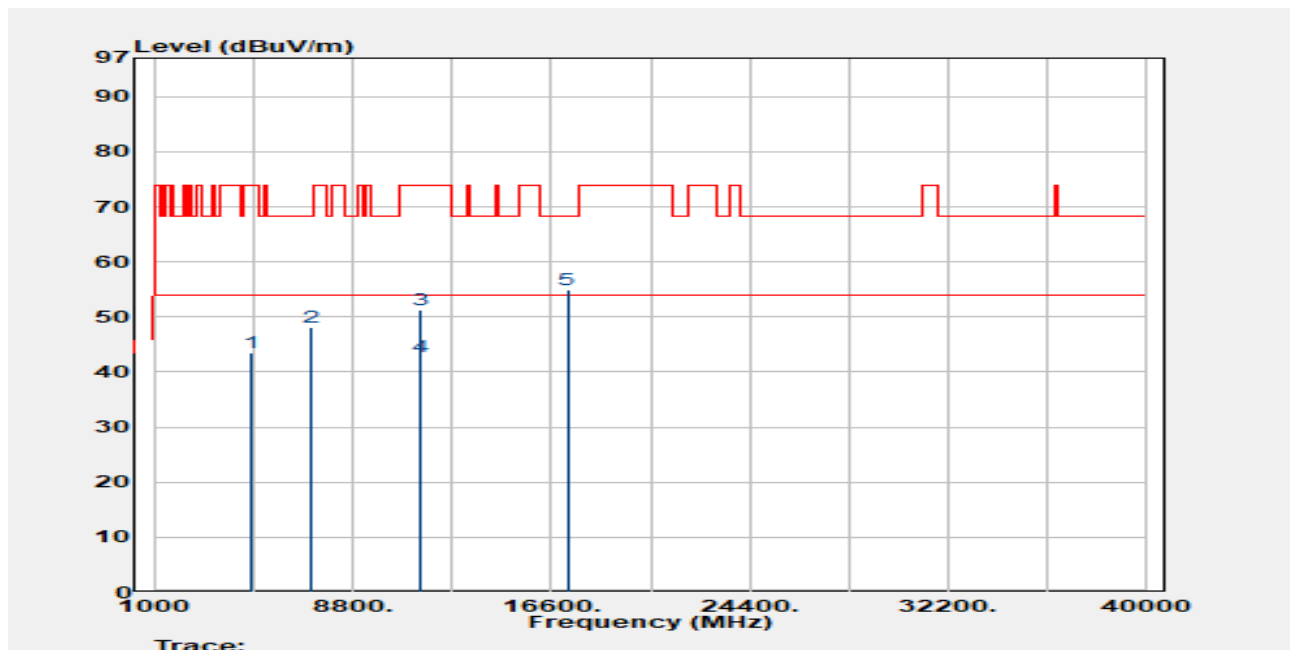
Test Site :SAC 2

Test Date :2023-03-22

Temp./Humi. :25.8/60

Antenna Pol. :Vertical

Engineer :Ricky Chen



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4804.000     | Peak                         | 41.37                             | 2.10         | 43.47                  | 74.00                  | -30.53       |
| 7206.000     | Peak                         | 40.64                             | 7.56         | 48.20                  | 68.20                  | -20.00       |
| 11490.000    | Peak                         | 41.25                             | 10.00        | 51.25                  | 74.00                  | -22.75       |
| 11490.000    | Average                      | 32.77                             | 10.00        | 42.77                  | 54.00                  | -11.23       |
| 17235.000    | Peak                         | 45.12                             | 9.81         | 54.93                  | 68.20                  | -13.27       |

| Freq.<br>(MHz) | Detector | Peak Actual<br>FS<br>(dBμV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|----------------|----------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4804.000       | Average  | 43.47                         | -25.04                       | 18.43                        | 54.00                           | -35.57         |
| 7206.000       | Average  | 48.20                         | -25.04                       | 23.16                        | 54.00                           | -30.84         |

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Report Number :TERF2303000711ER

Test Site :SAC 2

Operation Mode :802.11a + BR

Test Date :2023-03-22

Test Frequency :5745 + 2402 MHz

Temp./Humi. :25.8/60

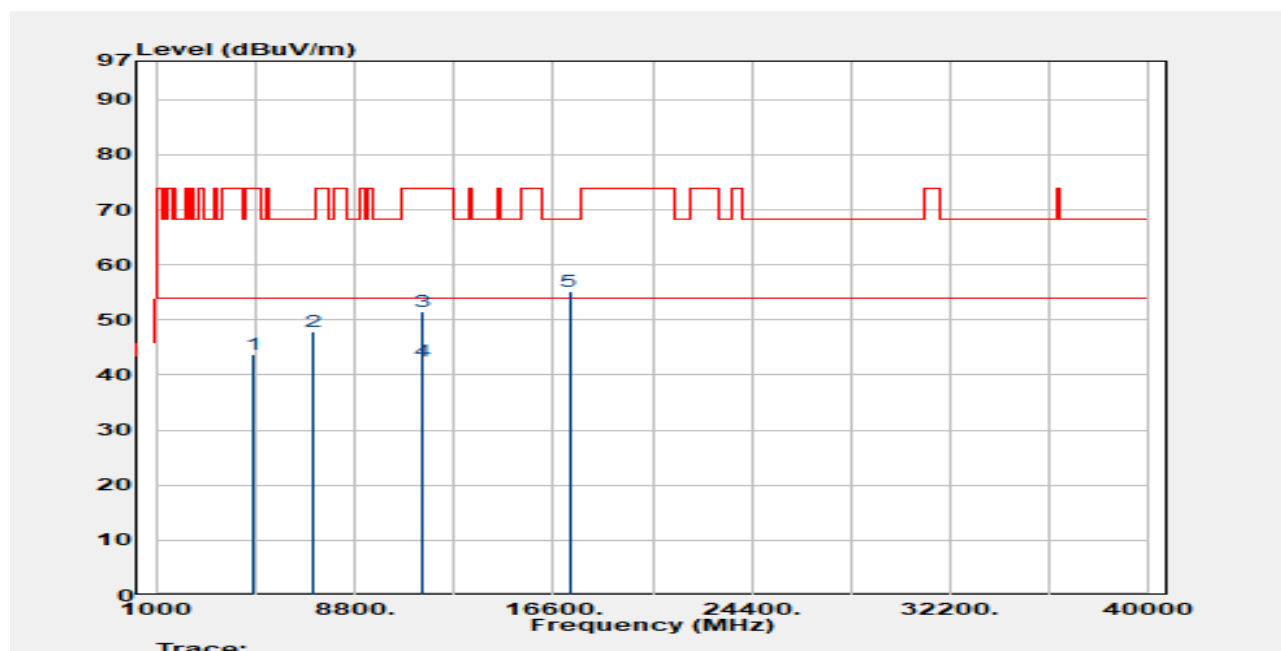
Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Ricky Chen

Note. : Wi-Fi 5G(Antenna: WT32D1-KX series)+ Bluetooth(Antenna: WT32D1-KX series)



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4804.000     | Peak                         | 41.70                             | 2.10         | 43.80                  | 74.00                  | -30.20       |
| 7206.000     | Peak                         | 40.45                             | 7.56         | 48.00                  | 68.20                  | -20.20       |
| 11490.000    | Peak                         | 41.62                             | 10.00        | 51.62                  | 74.00                  | -22.38       |
| 11490.000    | Average                      | 32.50                             | 10.00        | 42.50                  | 54.00                  | -11.50       |
| 17235.000    | Peak                         | 45.48                             | 9.81         | 55.29                  | 68.20                  | -12.91       |

| Freq.<br>(MHz) | Detector | Peak Actual<br>FS<br>(dBμV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|----------------|----------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4804.000       | Average  | 43.80                         | -25.04                       | 18.76                        | 54.00                           | -35.24         |
| 7206.000       | Average  | 48.00                         | -25.04                       | 22.96                        | 54.00                           | -31.04         |

## ~ End of Report ~

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