

**FCC 15.407 U-NII  
(Class II Permissive Change)  
5GHz Test Report**

**for**

**LG Electronics USA**

**111 Sylvan Avenue, North Building, Englewood Cliffs, NJ 07632**

**Product Name : Wireless Audio Module**  
**Model Name : WL1BKT22**  
**Brand : LG**  
**FCC ID : BEJ-WL1BKT22**

**Prepared by: : AUDIX Technology Corporation,  
EMC Department**



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

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## TEST REPORT (Class II Permissive Change)

Applicant : LG Electronics USA  
Manufacturer : LG Electronics Inc.  
Factory : Shenzhen Shi Xinzhongxin Technology Co., Ltd.  
EUT Description  
(1) Product : Wireless Audio Module  
(2) Model : WL1BKT22  
(3) Brand : LG  
(4) Power Supply: DC 3.3V

Applicable Standards:

Title 47 FCC CFR Part 15 Subpart E

**Audix Technology Corp.** tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

**Audix Technology Corp.** does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2024. 12. 17

Reviewed by:



(Sabrina Wang/Administrator)

Approved by:



(Johnny Hsueh/Section Manager)

## 1. REVISION RECORD OF TEST REPORT

| Edition No | Issued Date  | Revision Summary | Report Number |
|------------|--------------|------------------|---------------|
| 0          | 2024. 12. 17 | Original Report  | EM-F240523    |

## 2. SUMMARY OF TEST RESULTS

| Rule                                                                 | Description                                                                           | Results     |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------|
| 15.207                                                               | Conducted Emission                                                                    | <b>PASS</b> |
| 15.205/15.209                                                        | Undesirable Emissions Limits:<br>Radiated Band Edge and<br>Radiated Spurious Emission | <b>PASS</b> |
| 15.407(a)                                                            | Maximum Output Power                                                                  | <b>PASS</b> |
| Note: The uncertainties value is not used in determining the result. |                                                                                       |             |

### 3. GENERAL INFORMATION

#### 3.1. Description of Application

|              |                                                                                                                                                 |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant    | LG Electronics USA<br>111 Sylvan Avenue, North Building, Englewood Cliffs, NJ 07632                                                             |
| Manufacturer | LG Electronics Inc.<br>222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do, 17709 Republic of Korea                                              |
| Factory      | Shenzhen Shi Xinzhongxin Technology Co., Ltd.<br>Block A1, Donghuan Industrial Zone, Nanpu Road Shajing Street, Baoan District, Shenzhen, China |
| Product      | Wireless Audio Module                                                                                                                           |
| Model        | WL1BKT22                                                                                                                                        |
| Brand        | LG                                                                                                                                              |

### 3.2. Description of EUT

|                        |                                                                                                                                                                                                                                                 |               |          |  |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|--|
| Test Model             | WL1BKT22                                                                                                                                                                                                                                        |               |          |  |
| Serial Number          | N/A                                                                                                                                                                                                                                             |               |          |  |
| Power Rating           | DC 3.3V                                                                                                                                                                                                                                         |               |          |  |
| Software Version       | V3.1                                                                                                                                                                                                                                            |               |          |  |
| Hardware version       | TX_V1.7                                                                                                                                                                                                                                         |               |          |  |
| RF Features            | GFSK                                                                                                                                                                                                                                            |               |          |  |
| Transmit Type          | 1T1R                                                                                                                                                                                                                                            |               |          |  |
| Device Category        | <input type="checkbox"/> Outdoor Access Point<br><input type="checkbox"/> Fixed point-to-point Access Point<br><input checked="" type="checkbox"/> Indoor Access Point<br><input checked="" type="checkbox"/> Mobile and Portable client device |               |          |  |
| Test Sample            | Sample No.                                                                                                                                                                                                                                      | Test Item     | Firmware |  |
|                        | 03                                                                                                                                                                                                                                              | AC Conduction | N/A      |  |
|                        | 03                                                                                                                                                                                                                                              | Radiated      | N/A      |  |
|                        | 02                                                                                                                                                                                                                                              | RF Conducted  | N/A      |  |
| Sample Status          | Trial sample                                                                                                                                                                                                                                    |               |          |  |
| Date of Receipt        | 2024. 10. 30                                                                                                                                                                                                                                    |               |          |  |
| Date of Test           | 2024. 11. 14 ~ 12. 16                                                                                                                                                                                                                           |               |          |  |
| Interface Ports of EUT | None                                                                                                                                                                                                                                            |               |          |  |
| Accessories Supplied   | None                                                                                                                                                                                                                                            |               |          |  |

Note: Pursuant ISO 17025:2017 section 7.8.2, Audix Technology Corp. does not assume responsibility for all EUT's information including RF features, transmit type, antenna information...etc are provided by customer.

### 3.3. Reference Test Guidance

KDB 789033 D02 General UNII Test Procedures New Rules v02r01  
ANSI C63.10:2013

### 3.4. Information for Permissive Change

- The EUT is an addition version with original FCC ID: BEJ-WL1BKT22 is as following.
  - (1) This is to update flash capacities are controlled by firmware for MCU.
  - (2) This is to add alternative sources of PA IC.
- The differences between this application and original's ID as clarify in following list.

| Item                     | Original                                                                    | Permissive Change                                                                                                                                                                                              |
|--------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                    | WL1BKT22                                                                    | WL1BKT22                                                                                                                                                                                                       |
| MCU                      | Manufacturer: Beken Corporation<br>Model: CC2538<br>Flash capacities: 2line | <b>Manufacturer: Beken Corporation</b><br><b>Model: CC2538</b><br><b>Flash capacities: 4line</b><br><b>(To update flash capacities are controlled by firmware for MCU.)</b>                                    |
| PA IC                    | Manufacturer: Chipbetter icroelectronics Inc<br>Model: CB5712               | <b>Manufacturer: KANGXI Communication Technologies</b><br><b>Model: KCT8533D-1</b><br><b>(To add alternative sources of PA IC that this chip replacement is the pin-for-pin compatible of Original PA IC.)</b> |
| Software Version         | V3.0                                                                        | V3.1                                                                                                                                                                                                           |
| Soft Version Differences | V3.0 is built in FLASH setting with 2line                                   | V3.1 is built in FLASH setting with 4line                                                                                                                                                                      |

- Due to above different item, there have some test item should be re-tested (see section 2), the test data are recorded in this report.

### 3.5. Antenna Information

| No. | Antenna Part Number | Manufacturer | Antenna Type         | Frequency (MHz) | Max Gain(dBi) |
|-----|---------------------|--------------|----------------------|-----------------|---------------|
| 1.  | Antenna #1          | N/A          | PCB Printing Antenna | 5150            | 2.66          |
|     |                     |              |                      | 5170            | 2.87          |
|     |                     |              |                      | 5190            | 2.94          |
|     |                     |              |                      | 5210            | 3.25          |
|     |                     |              |                      | 5230            | 3.23          |
|     |                     |              |                      | 5250            | 3.11          |
|     |                     |              |                      | 5450            | 2.98          |
|     |                     |              |                      | 5470            | 2.98          |
|     |                     |              |                      | 5490            | 2.77          |
|     |                     |              |                      | 5500            | 2.59          |
|     |                     |              |                      | 5750            | 2.38          |
|     |                     |              |                      | 5770            | 2.38          |
|     |                     |              |                      | 5790            | 2.48          |
|     |                     |              |                      | 5810            | 2.33          |
|     |                     |              |                      | 5830            | 2.37          |
|     |                     |              |                      | 5850            | 2.22          |
| No. | Antenna Part Number | Manufacturer | Antenna Type         | Frequency (MHz) | Max Gain(dBi) |
| 2.  | Antenna #2          | N/A          | PCB Printing Antenna | 5150            | 3.57          |
|     |                     |              |                      | 5170            | 3.35          |
|     |                     |              |                      | 5190            | 3.42          |
|     |                     |              |                      | 5210            | 3.69          |
|     |                     |              |                      | 5230            | 4.00          |
|     |                     |              |                      | 5250            | 3.94          |
|     |                     |              |                      | 5450            | 3.32          |
|     |                     |              |                      | 5470            | 3.48          |
|     |                     |              |                      | 5490            | 3.37          |
|     |                     |              |                      | 5500            | 3.42          |
|     |                     |              |                      | 5750            | 3.98          |
|     |                     |              |                      | 5770            | 4.05          |
|     |                     |              |                      | 5790            | 3.79          |
|     |                     |              |                      | 5810            | 3.94          |
|     |                     |              |                      | 5830            | 4.20          |
|     |                     |              |                      | 5850            | 4.09          |

### 3.6. EUT Specifications Assessed in Current Report

| Modulation | U-NII Band | Fundamental Range (MHz) | Channel Number | Data Rate |
|------------|------------|-------------------------|----------------|-----------|
| GFSK       | 1          | 5155-5245               | 91             | 2 Mbps    |
|            | 3          | 5730-5848               | 119            |           |

| Channel List   |                 |                |                 |                |                 |                |                 |                |                 |
|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
| U-NII Band 1   |                 |                |                 |                |                 |                |                 |                |                 |
| Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) |
| 0              | 5155            | 19             | 5174            | 38             | 5193            | 57             | 5212            | 76             | 5231            |
| 1              | 5156            | 20             | 5175            | 39             | 5194            | 58             | 5213            | 77             | 5232            |
| 2              | 5157            | 21             | 5176            | 40             | 5195            | 59             | 5214            | 78             | 5233            |
| 3              | 5158            | 22             | 5177            | 41             | 5196            | 60             | 5215            | 79             | 5234            |
| 4              | 5159            | 23             | 5178            | 42             | 5197            | 61             | 5216            | 80             | 5235            |
| 5              | 5160            | 24             | 5179            | 43             | 5198            | 62             | 5217            | 81             | 5236            |
| 6              | 5161            | 25             | 5180            | 44             | 5199            | 63             | 5218            | 82             | 5237            |
| 7              | 5162            | 26             | 5181            | 45             | 5200            | 64             | 5219            | 83             | 5238            |
| 8              | 5163            | 27             | 5182            | 46             | 5201            | 65             | 5220            | 84             | 5239            |
| 9              | 5164            | 28             | 5183            | 47             | 5202            | 66             | 5221            | 85             | 5240            |
| 10             | 5165            | 29             | 5184            | 48             | 5203            | 67             | 5222            | 86             | 5241            |
| 11             | 5166            | 30             | 5185            | 49             | 5204            | 68             | 5223            | 87             | 5242            |
| 12             | 5167            | 31             | 5186            | 50             | 5205            | 69             | 5224            | 88             | 5243            |
| 13             | 5168            | 32             | 5187            | 51             | 5206            | 70             | 5225            | 89             | 5244            |
| 14             | 5169            | 33             | 5188            | 52             | 5207            | 71             | 5226            | 90             | 5245            |
| 15             | 5170            | 34             | 5189            | 53             | 5208            | 72             | 5227            |                |                 |
| 16             | 5171            | 35             | 5190            | 54             | 5209            | 73             | 5228            |                |                 |
| 17             | 5172            | 36             | 5191            | 55             | 5210            | 74             | 5229            |                |                 |
| 18             | 5173            | 37             | 5192            | 56             | 5211            | 75             | 5230            |                |                 |
| Channel List   |                 |                |                 |                |                 |                |                 |                |                 |
| U-NII Band 3   |                 |                |                 |                |                 |                |                 |                |                 |
| Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) |
| 0              | 5730            | 25             | 5755            | 50             | 5780            | 75             | 5805            | 101            | 5831            |
| 1              | 5731            | 26             | 5756            | 51             | 5781            | 76             | 5806            | 102            | 5832            |
| 2              | 5732            | 27             | 5757            | 52             | 5782            | 78             | 5808            | 103            | 5833            |
| 3              | 5733            | 28             | 5758            | 53             | 5783            | 79             | 5809            | 104            | 5834            |
| 4              | 5734            | 29             | 5759            | 54             | 5784            | 80             | 5810            | 105            | 5835            |
| 5              | 5735            | 30             | 5760            | 55             | 5785            | 81             | 5811            | 106            | 5836            |
| 6              | 5736            | 31             | 5761            | 56             | 5786            | 82             | 5812            | 107            | 5837            |
| 7              | 5737            | 32             | 5762            | 57             | 5787            | 83             | 5813            | 108            | 5838            |
| 8              | 5738            | 33             | 5763            | 58             | 5788            | 84             | 5814            | 109            | 5839            |
| 9              | 5739            | 34             | 5764            | 59             | 5789            | 85             | 5815            | 110            | 5840            |
| 10             | 5740            | 35             | 5765            | 60             | 5790            | 86             | 5816            | 111            | 5841            |
| 11             | 5741            | 36             | 5766            | 61             | 5791            | 87             | 5817            | 112            | 5842            |
| 12             | 5742            | 37             | 5767            | 62             | 5792            | 88             | 5818            | 113            | 5843            |
| 13             | 5743            | 38             | 5768            | 63             | 5793            | 89             | 5819            | 114            | 5844            |
| 14             | 5744            | 39             | 5769            | 64             | 5794            | 90             | 5820            | 115            | 5845            |
| 15             | 5745            | 40             | 5770            | 65             | 5795            | 91             | 5821            | 116            | 5846            |
| 16             | 5746            | 41             | 5771            | 66             | 5796            | 92             | 5822            | 117            | 5847            |
| 17             | 5747            | 42             | 5772            | 67             | 5797            | 93             | 5823            | 118            | 5848            |
| 18             | 5748            | 43             | 5773            | 68             | 5798            | 94             | 5824            |                |                 |
| 19             | 5749            | 44             | 5774            | 69             | 5799            | 95             | 5825            |                |                 |
| 20             | 5750            | 45             | 5775            | 70             | 5800            | 96             | 5826            |                |                 |
| 21             | 5751            | 46             | 5776            | 71             | 5801            | 97             | 5827            |                |                 |
| 22             | 5752            | 47             | 5777            | 72             | 5802            | 98             | 5828            |                |                 |
| 23             | 5753            | 48             | 5778            | 73             | 5803            | 99             | 5829            |                |                 |
| 24             | 5754            | 49             | 5779            | 74             | 5804            | 100            | 5830            |                |                 |

Note: Test modes are presented at section 3.7.

### 3.7. Description of Key Components

None

### 3.8. Test Configuration

| Antenna | TX <sub>on</sub> (ms) | TX <sub>on+off</sub> (ms) | Duty Cycle (x) | Duty Cycle Factor [10log(1/x)](dB) |
|---------|-----------------------|---------------------------|----------------|------------------------------------|
| #1      | 8.8                   | 20                        | 0.440          | 3.565                              |
| #2      | 8.8                   | 20                        | 0.440          | 3.565                              |

Note: When duty cycle is less than 98% (0.98) that duty cycle factor 10log(1/x) is needed to add in conducted test items measured in average detector.



### AC Conduction

Normal operation

| Item                         | Modulation       | Antenna | Test Frequency (MHz)               |
|------------------------------|------------------|---------|------------------------------------|
| Radiated Test Case<br>Note 1 | GFSK<br>(2 Mbps) | #1      | 5155, 5195, 5245, 5730, 5790, 5848 |
|                              |                  | #2      | 5155, 5195, 5245, 5730, 5790, 5848 |
|                              | GFSK<br>(2 Mbps) | #1      | 5155, 5195, 5245, 5730, 5790, 5848 |
|                              |                  | #2      | 5155, 5195, 5245, 5730, 5790, 5848 |
|                              | GFSK<br>(2 Mbps) | #1      | 5155, 5730, 5848                   |
|                              |                  | #2      | 5155, 5730, 5848                   |
| Conducted Test Case          | GFSK<br>(2 Mbps) | #1      | 5155, 5195, 5245, 5730, 5790, 5848 |
|                              |                  | #2      | 5155, 5195, 5245, 5730, 5790, 5848 |

Note 1: ☒ Mobile Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow:

☒ Lie ☐ Side ☐ Stand

☐ Portable Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow:

☐ Lie ☐ Side ☐ Stand

### 3.9. Output Power Setting

| Mode | U-NII Band | Centre Frequency (MHz) | Power Setting |            |
|------|------------|------------------------|---------------|------------|
|      |            |                        | Antenna #1    | Antenna #2 |
| GFSK | 1          | 5155                   | Default       | Default    |
|      |            | 5195                   | Default       | Default    |
|      |            | 5245                   | Default       | Default    |
|      | 3          | 5730                   | Default       | Default    |
|      |            | 5790                   | Default       | Default    |
|      |            | 5848                   | Default       | Default    |

### 3.10. Tested Supporting System List

#### 3.10.1. Support Peripheral Unit

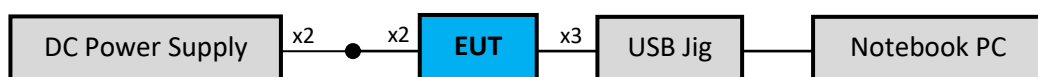
| No. | Product         | Brand    | Model No. | Serial No. | Approval                                                      |
|-----|-----------------|----------|-----------|------------|---------------------------------------------------------------|
| 1.  | DC Power Supply | TOP WARD | 3303A     | N/A        | N/A                                                           |
| 2.  | USB Jig         | N/A      | N/A       | N/A        | N/A                                                           |
| 3.  | Notebook PC     | hp       | TPN-Q189  | 5CD8175992 | Contains FCC ID:<br>PD93168NG<br>Contains IC:<br>1000M-3168NG |

#### 3.10.2. Cable Lists

| No. | Cable Description Of The Above Support Units                                                                                                        |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | AC Power Cord: Unshielded, Detachable, 1.8m<br>DC Cable x2 : Unshielded, Detachable, 1.0m<br>DC Cable x2: Unshielded, Undetectable, 0.1m            |
| 2.  | USB Cable: Unshielded, Undetectable, 1.5m<br>Data Cable x3: Unshielded, Undetectable, 0.1m                                                          |
| 3.  | Adapter: hp, M/N PPP-012C-S<br>DC Power Cord: Unshielded, Undetectable, 2.0m, Bonded a ferrite core<br>AC Power Cable: Unshielded, Detectable, 1.0m |

### 3.11. Setup Configuration

#### 3.11.1. EUT Configuration for Power Line & Radiated Emission



#### 3.11.2. EUT Configuration for RF Conducted Test Items



### 3.12. Operating Condition of EUT

Test program “SSCOM V5.13.1” is used for enabling EUT RF function under continues transmitting and choosing channel.

### 3.13. Description of Test Facility

|                   |                                                                                                                                                                                                                                                                                                                                        |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of Test Firm | Audix Technology Corporation / EMC Department<br>No. 491, Zhongfu Rd., Linkou Dist., New Taipei City 244, Taiwan<br>Tel: +886-2-26092133<br>Fax: +886-2-26099303<br>Website : <a href="http://www.audixtech.com">www.audixtech.com</a><br>Contact e-mail: <a href="mailto:attemc_report@audixtech.com">attemc_report@audixtech.com</a> |
| Accreditations    | The laboratory is accredited by following organizations under ISO/IEC 17025:2017<br>(1) NVLAP(USA)<br>NVLAP Lab Code 200077-0<br>(2) TAF(Taiwan)<br>No. 1724                                                                                                                                                                           |
| Test Facilities   | FCC OET Designation Number under APEC MRA by NCC is : TW1724<br>ISED CAB Identifier Number under APEC TEL MRA by NCC is TW1724<br>(1) No.8 Shielded Room<br>(2) No.1 3m Semi Anechoic Chamber                                                                                                                                          |

### 3.14.Measurement Uncertainty

The measurement uncertainty levels have been estimated as specified in ETSI TR 100 028-2001

| Test Items/Facilities |                                     |                                  | Frequency Range                | Uncertainty     |
|-----------------------|-------------------------------------|----------------------------------|--------------------------------|-----------------|
| Conduction Test       | <input type="checkbox"/>            | No. 7 Shielded Room              | 9kHz-150kHz                    | ±3.6dB          |
|                       |                                     |                                  | 150kHz-30MHz                   | ±3.3dB          |
|                       | <input checked="" type="checkbox"/> | No. 8 Shielded Room              | 9kHz-150kHz                    | ±3.7dB          |
|                       |                                     |                                  | 150kHz-30MHz                   | ±3.4dB          |
| Radiation Test        | <input checked="" type="checkbox"/> | No.1 3m Semi Anechoic Chamber    | 30MHz-200MHz, 3m, Horizontal   | ±3.8dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Horizontal | ±4.2dB          |
|                       |                                     |                                  | 30MHz-200MHz, 3m, Vertical     | ±4.7dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Vertical   | ±4.8dB          |
|                       |                                     |                                  | 1GHz-6GHz, 3m                  | ±4.8dB          |
|                       |                                     |                                  | 6GHz-18GHz, 3m                 | ±4.3dB          |
|                       | <input type="checkbox"/>            | No.3 3m Semi Anechoic Chamber    | 30MHz-200MHz, 3m, Horizontal   | ±3.9dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Horizontal | ±4.2dB          |
|                       |                                     |                                  | 30MHz-200MHz, 3m, Vertical     | ±4.7dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Vertical   | ±4.8dB          |
|                       |                                     |                                  | 1GHz-6GHz, 3m                  | ±4.5dB          |
|                       |                                     |                                  | 6GHz-18GHz, 3m                 | ±4.0dB          |
|                       | <input type="checkbox"/>            | No.4 3m Semi Anechoic Chamber    | 30MHz-200MHz, 3m, Horizontal   | ±3.9dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Horizontal | ±4.3dB          |
|                       |                                     |                                  | 30MHz-200MHz, 3m, Vertical     | ±4.8dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Vertical   | ±4.9dB          |
|                       |                                     |                                  | 1GHz-6GHz, 3m                  | ±4.2dB          |
|                       |                                     |                                  | 6GHz-18GHz, 3m                 | ±3.8dB          |
|                       | <input type="checkbox"/>            | No.5 3m Semi Anechoic Chamber    | 30MHz-200MHz, 3m, Horizontal   | ±3.9dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Horizontal | ±4.1dB          |
|                       |                                     |                                  | 30MHz-200MHz, 3m, Vertical     | ±4.8dB          |
|                       |                                     |                                  | 200MHz-1000MHz, 3m, Vertical   | ±4.7dB          |
|                       |                                     |                                  | 1GHz-6GHz, 3m                  | ±4.8dB          |
|                       |                                     |                                  | 6GHz-18GHz, 3m                 | ±4.6dB          |
|                       |                                     | Radiated emissions (18GHz-40GHz) |                                | 18GHz-40GHz, 3m |

Remark : Uncertainty =  $ku_c(y)$

| Test Items           | Uncertainty |
|----------------------|-------------|
| Maximum output power | ± 0.8dB     |

## 4. MEASUREMENT EQUIPMENT LIST

### 4.1. Conducted Emission Measurement

| Item | Type                       | Manufacturer | Model No. | Serial No. | Cal. Date  | Cal. Interval |
|------|----------------------------|--------------|-----------|------------|------------|---------------|
| 1.   | Test Receiver              | R&S          | ESR3      | 101774     | 2024.01.09 | 1 Year        |
| 2.   | FOUR-LINE V-NETWORK        | R&S          | ENV432    | 101567     | 2024.06.07 | 1 Year        |
| 3.   | L.I.S.N.                   | Kyoritsu     | KNW-407   | 8-1370-10  | 2024.01.15 | 1 Year        |
| 4.   | Pulse Limiter              | R&S          | ESH3-Z2   | 100354     | 2023.12.09 | 1 Year        |
| 5.   | Digital Thermo-Hygro Meter | iMax         | HTC-1     | No.8 S/R   | 2024.04.11 | 1 Year        |
| 6.   | Coaxial Cable              | Yeida        | RG/58AU   | CE-08      | 2024.09.04 | 1 Year        |
| 7.   | Test Software              | Audix        | e3        | V6.120619c | N.C.R.     | N.C.R.        |

### 4.2. Radiated Emission Measurement

| Item | Type                       | Manufacturer       | Model No.    | Serial No.  | Cal. Date  | Cal. Interval |
|------|----------------------------|--------------------|--------------|-------------|------------|---------------|
| 1.   | Spectrum Analyzer          | Agilent            | N9010A-526   | MY53400071  | 2024.08.12 | 1 Year        |
| 2.   | Spectrum Analyzer          | Keysight           | N9010B-544   | MY55460198  | 2024.03.21 | 1 Year        |
| 3.   | Test Receiver              | R&S                | ESCS30       | 100338      | 2024.06.18 | 1 Year        |
| 4.   | Microwave Preamplifier     | Agilent            | 8449B        | 3008A02678  | 2024.02.20 | 1 Year        |
| 5.   | Microwave Amplifier        | Keysight           | 83051A       | MY56480113  | 2024.09.11 | 1 Year        |
| 6.   | Bilog Antenna              | TESEQ              | CBL6112D     | 33821       | 2024.02.17 | 1 Year        |
| 7.   | Horn Antenna               | EMCO               | 3115         | 9112-3775   | 2024/4/30  | 1 Year        |
| 8.   | Horn Antenna               | COM-POWER          | AH-840       | 101092      | 2024.01.12 | 1 Year        |
| 9.   | 5G Notch Filter            | Microwave Circuits | N0452502     | 459775      | 2024.04.10 | 1 Year        |
| 10.  | 5G Notch Filter            | Microwave Circuits | N0257881     | 459776      | 2024.04.10 | 1 Year        |
| 11.  | Coaxial Cable              | HUBER+SUHNER       | SUCOFLEX 106 | RE-14       | 2024.01.05 | 1 Year        |
| 12.  | Coaxial Cable              | HUBER+SUHNER       | SUCOFLEX 102 | RE-30       | 2024.08.20 | 1 Year        |
| 13.  | Digital Thermo-Hygro Meter | iMax               | HTC-1        | No.1 3m A/C | 2024.04.11 | 1 Year        |
| 14.  | Digital Thermo-Hygro Meter | EVERY DAY          | E-512        | RF          | 2024.04.11 | 1 Year        |
| 15.  | Test Software              | Audix              | e3           | V6.120619c  | N.C.R.     | N.C.R.        |

### 4.3. RF Conducted Measurement

| Item | Type                       | Manufacturer | Model No. | Serial No. | Cal. Date  | Cal. Interval |
|------|----------------------------|--------------|-----------|------------|------------|---------------|
| 1.   | Spectrum Analyzer          | Keysight     | N9030B    | MY61330403 | 2023.12.05 | 1 Year        |
| 2.   | Power Meter                | Anritsu      | ML2487A   | 6K00005406 | 2024.04.11 | 1 Year        |
| 3.   | Power Sensor               | Anritsu      | MA2491A   | 030873     | 2024.04.10 | 1 Year        |
| 4.   | Digital Thermo-Hygro Meter | iMax         | HTC-1     | RF-03      | 2024.04.11 | 1 Year        |

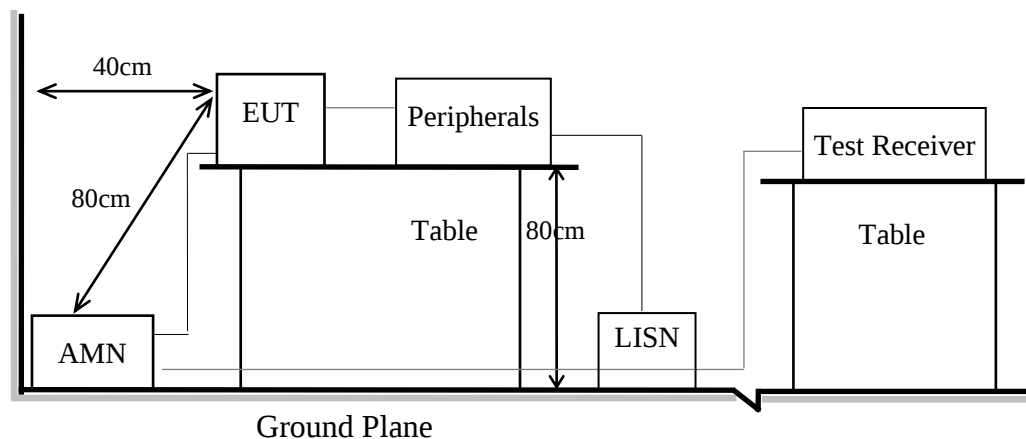
## 5. CONDUCTED EMISSION

### 5.1. Block Diagram of Test Setup

#### 5.1.1. Block Diagram of EUT

Indicated as section 3.10

#### 5.1.2. Shielded Room Setup Diagram



### 5.2. Conducted Emission Limit

| Frequency       | Conducted Limit    |                    |
|-----------------|--------------------|--------------------|
|                 | Quasi-Peak Level   | Average Level      |
| 150kHz ~ 500kHz | 66 ~ 56 dB $\mu$ V | 56 ~ 46 dB $\mu$ V |
| 500kHz ~ 5MHz   | 56 dB $\mu$ V      | 46 dB $\mu$ V      |
| 5MHz ~ 30MHz    | 60 dB $\mu$ V      | 50 dB $\mu$ V      |

Remark1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

### 5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150kHz to 30 MHz and record the emission which does not have 20 dB below limit.

### 5.4. Test Results

Please refer to Appendix A.

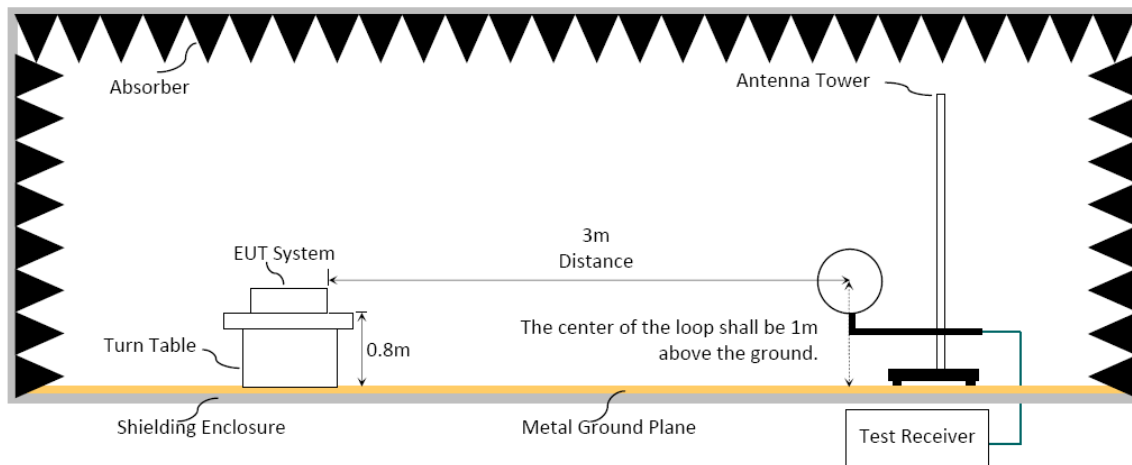
## 6. RADIATED EMISSION

### 6.1. Block Diagram of Test Setup

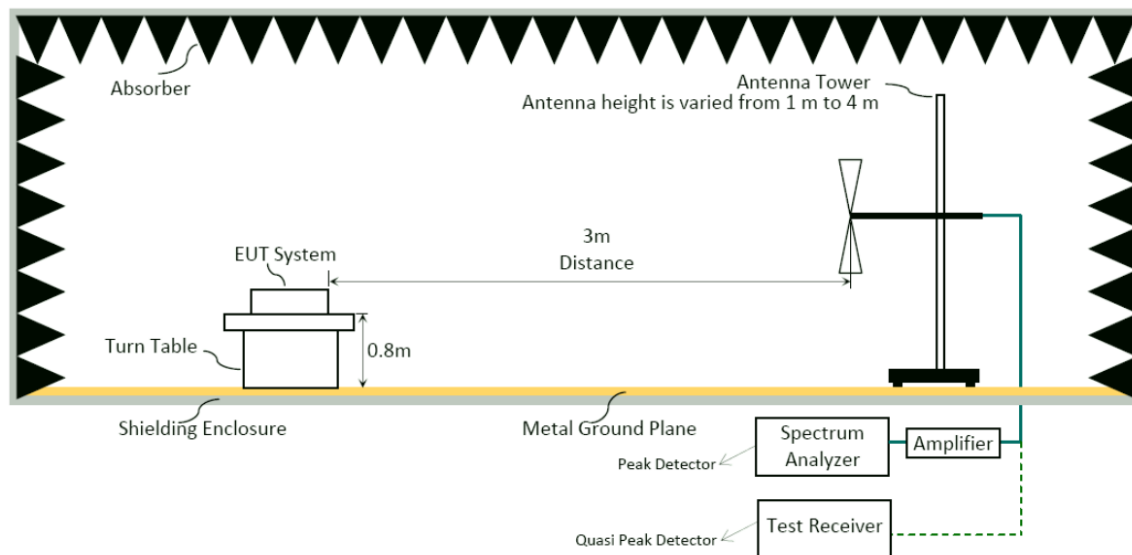
#### 6.1.1. Block Diagram of EUT

Indicated as section 3.10

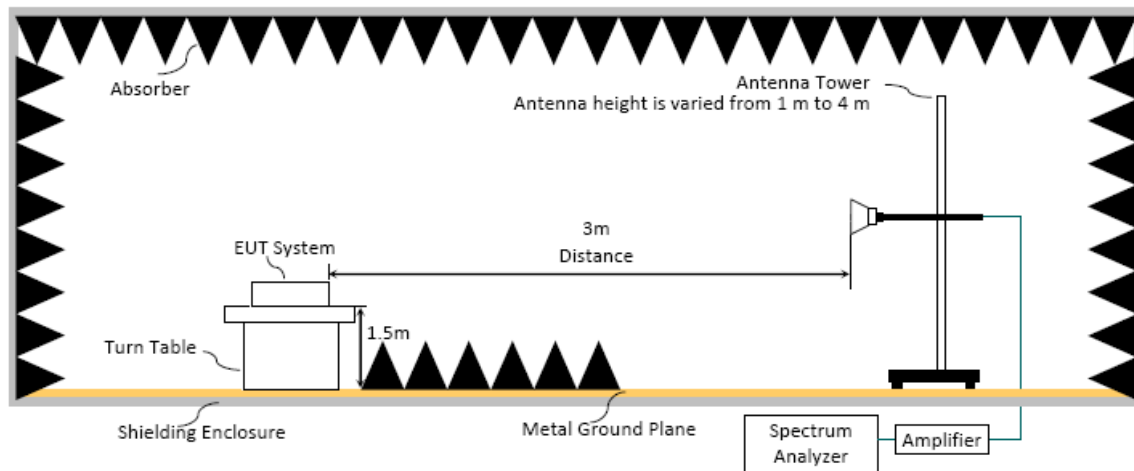
#### 6.1.2. Setup Diagram for 9kHz-30MHz



#### 6.1.3. Setup Diagram for 30-1000MHz



#### 6.1.4. Setup Diagram for above 1GHz



## 6.2. Radiated Emission Limits

Radiated emissions fall in restricted bands, as defined in Section 15.205 must be in compliance with the radiated emission limits specified in 15.209 as below.

### 6.2.1. General Limit

| Frequency (MHz) | Distance(m) | Limits                                                  |             |
|-----------------|-------------|---------------------------------------------------------|-------------|
|                 |             | dB $\mu$ V/m                                            | $\mu$ V/m   |
| 0.009 - 0.490   | 300         | 67.6-20 log f(kHz)                                      | 2400/f kHz  |
| 0.490 - 1.705   | 30          | 87.6-20 log f(kHz)                                      | 24000/f kHz |
| 1.705 - 30      | 30          | 29.5                                                    | 30          |
| 30 - 88         | 3           | 40.0                                                    | 100         |
| 88- 216         | 3           | 43.5                                                    | 150         |
| 216- 960        | 3           | 46.0                                                    | 200         |
| Above 960       | 3           | 54.0                                                    | 500         |
| Above 1000      | 3           | 74.0 dB $\mu$ V/m (Peak)<br>54.0 dB $\mu$ V/m (Average) |             |

Remark : (1) dB $\mu$ V/m = 20 log ( $\mu$ V/m)

(2) The tighter limit applies to the edge between two frequency bands.

(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

(4) Fundamental and emission fall within operation band are exempted from this section.

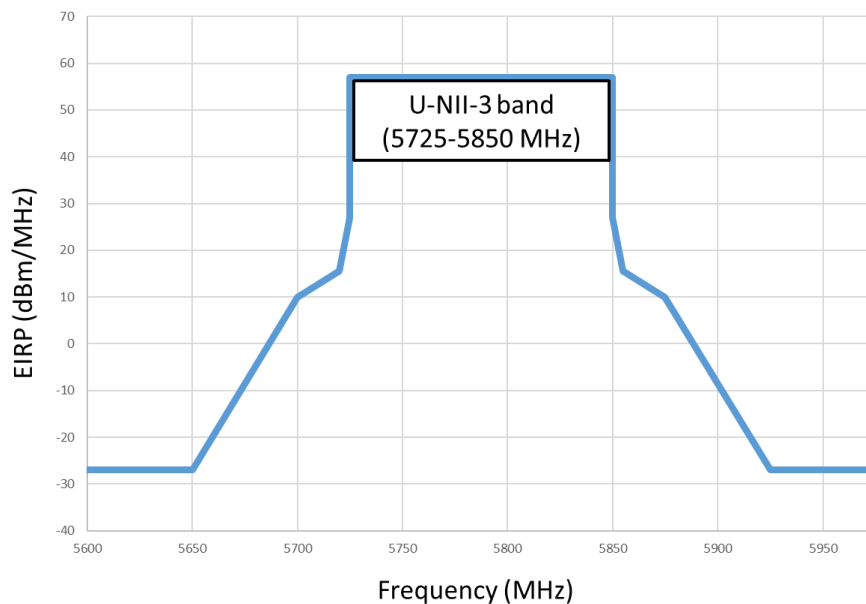
(5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

### 6.2.2. Limit for non-restricted frequency above 1 GHz

| Frequency Band (MHz) | E.I.R.P. Limit | Field Strength Limit at 3 m |
|----------------------|----------------|-----------------------------|
| 5150 to 5250         | -27 dBm        | 68.2 dB $\mu$ V/m           |
| 5250 to 5350         |                | 68.2 dB $\mu$ V/m           |
| 5470 to 5725         |                | 68.2 dB $\mu$ V/m           |

Note: Field Strength at 3 m = E.I.R.P. + 95.2 dB

| Frequency Band (MHz) | Field Strength Limit at 3 m         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5725 to 5850         | <input checked="" type="checkbox"/> | 15.407(b)(4)(i) All emissions shall be limited to a level of 68.2 dB $\mu$ V/m at 75 MHz or more above or below the band edge increasing linearly to 105.2 dB $\mu$ V/m at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 110.8 dB $\mu$ V/m at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 122.2 dB $\mu$ V/m at the band edge.    |
|                      | <input type="checkbox"/>            | 15.407(b)(4)(ii), compliance with the emission limits in § 15.247(d) Shall be at least 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power,. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)) |



### 6.3. Test Procedure

#### Frequency Range 9kHz~30MHz:

The EUT setup on the turntable which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

- (1) RBW = 9kHz with peak and average detector.
- (2) Detector: average and peak (9kHz-490kHz)  
Q.P. (490kHz-30MHz)

#### Frequency Range 30MHz ~ 40GHz:

The EUT setup on the turn table which has 80cm (for 30-1000MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

#### Frequency below 1GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1) RBW = 120kHz
- (2) VBW  $\geq 3 \times$  RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note 1: When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Note 2: When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

#### Frequency above 1GHz to 10th harmonic(up to 40 GHz):

##### Peak Detector:

- (1) RBW = 1MHz
- (2) VBW  $\geq 3 \times$  RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note: When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

---

**Average Detector:****■ Option 1:**

(1) RBW = 1MHz

(2) VBW  $\geq 1/T$ . (Duty Cycle < 98%, when duty cycle presented in section 3.8)

| Modulation Type | VBW Setting (VBW $\geq 1/T$ ) |
|-----------------|-------------------------------|
| GFSK (2Mbps)    | 1kHz                          |

(3) VBW = 10Hz (Duty Cycle  $\geq 98\%$ , when duty cycle presented in section 3.8)

(4) Detector = Peak.

(5) Sweep time = auto.

(6) Trace mode = max hold.

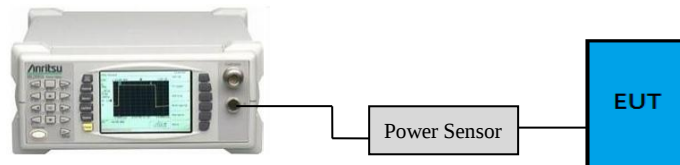
(7) Allow sweeps to continue until the trace stabilizes.

**□ Option 2:**Average Emission Level(dB $\mu$ V/m) = Peak Emission Level(dB $\mu$ V/m) + DCCF(dB).**6.4. Measurement Result Explanation****■** Peak Emission Level(dB $\mu$ V/m) = Antenna Factor(dB/m) + Cable Loss (dB) – Preamp Gain (dB) + Reading(dB $\mu$ V).**■** Average Emission Level(dB $\mu$ V/m) = Antenna Factor(dB/m) + Cable Loss (dB) – Preamp Gain (dB) + Reading(dB $\mu$ V).**□** Average Emission Level(dB $\mu$ V/m) = Peak Emission Level(dB $\mu$ V/m) + DCCF(dB)  
Duty Cycle Correction Factor (DCCF)(dB) =  $20\log(TX_{on}/TX_{on+off})$  presented in section 3.8.**□** ERP(dBm) = Peak Emission Level(dB $\mu$ V/m) - 95.2dB - 2.14dB**6.5. Test Results**

Please refer to Appendix A.

## 7. MAXIMUM OUTPUT POWER

### 7.1. Block Diagram of Test Setup



### 7.2. Specification Limits

| Frequency Band (MHz) | Category                          | Limit                                                                                                                   |
|----------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 5150 to 5250         | Outdoor Access Point              | 1 W(30 dBm)/<br>Max e.i.r.p. $\leq 125$ mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon |
|                      | Fixed point-to-point Access Point | 1 W(30 dBm)                                                                                                             |
|                      | Indoor Access Point               | 1 W(30 dBm)                                                                                                             |
|                      | Mobile and Portable client device | 250 mW(24 dBm)                                                                                                          |
| 5250 to 5350         | N/A                               | 250 mW or $11 \text{ dBm} + 10 \log B$ <sup>Note1</sup>                                                                 |
| 5470 to 5725         |                                   | 250 mW or $11 \text{ dBm} + 10 \log B$ <sup>Note1</sup>                                                                 |
| 5725 to 5850         |                                   | 1 W(30 dBm)                                                                                                             |

Note 1: B is the 26 dB emission bandwidth, which presented in section 7 and appendix A.1.

### 7.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v02r01:

■ **Method AVGPM (Measurement using an RF average power meter):**

EUT is connected to power sensor and record the maximum average output power and duty cycle factor is added when duty cycle presented in section 3.7 is < 98%.

□ **Method AVGSA-2 (Spectrum channel power)**

- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 MHz
- (3) Set the video bandwidth (VBW)  $\geq 3$  MHz.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
- (8) Duty cycle factor is added when duty cycle presented in section 3.7 is < 98%.

### 7.4. Test Results

Please refer to Appendix A

## 8. DEVIATION TO TEST SPECIFICATIONS

【NONE】



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# APPDNDIX A

## TEST DATA AND PLOTS

(Model: WL1BKT22)

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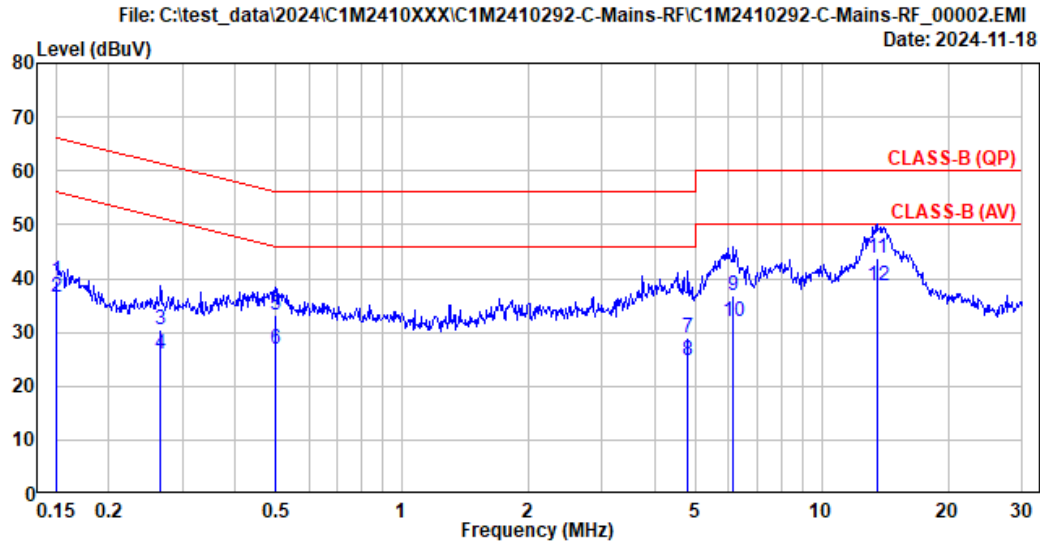
|                                                        |           |
|--------------------------------------------------------|-----------|
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## A.1 CONDUCTED EMISSION

|              |            |            |          |
|--------------|------------|------------|----------|
| Test Date    | 2024/11/18 | Temp./Hum. | 25°C/56% |
| Test Voltage | DC 3.3V    | Tested By  | Roy Hung |



|              |                                       |             |            |
|--------------|---------------------------------------|-------------|------------|
| Site No.     | : No.8 Shielded Room                  | Data No.    | : 2        |
| Instrument 1 | : Receiver ESR(774)                   |             |            |
| Instrument 2 | : ENV432 (567)(A) CE-08 ESH3-Z2 (354) |             |            |
| Limit        | : CLASS-B (QP)                        | Phase       | : Neutral  |
| Environment  | : 25°C/56%                            | Test Rating | : DC 3.3V  |
| EUT Model    | : WL18KT22                            | Engineer    | : Roy Hung |
| Test Mode    | : Operating                           |             |            |

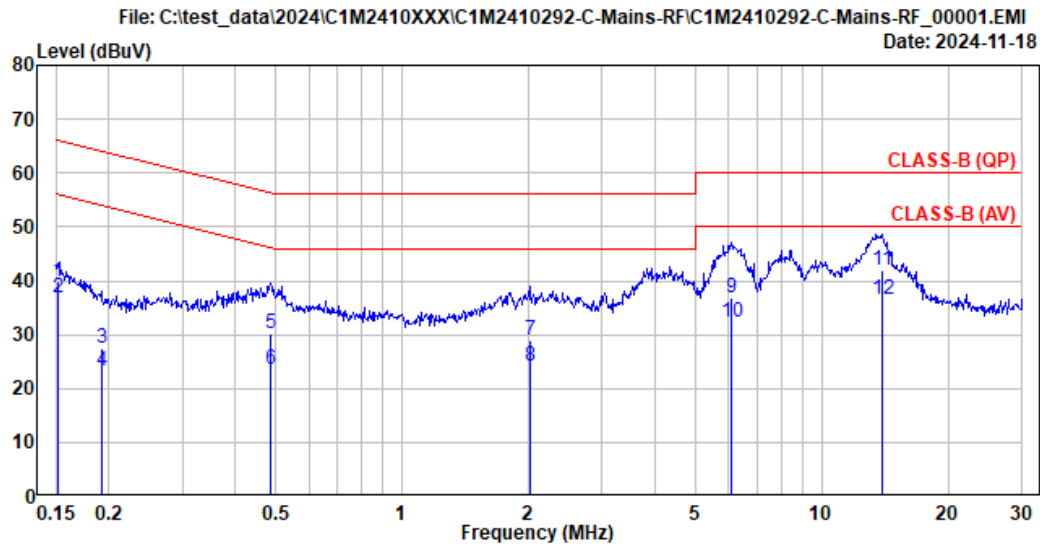
|    | Freq.<br>(MHz) | AMN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Pulse<br>Att.<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV) | Limits<br>(dBμV) | Margin<br>(dB) | Remark  |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.151          | 10.27                 | 0.03                  | 9.85                  | 19.32             | 39.47                       | 65.96            | 26.49          | QP      |
| 2  | 0.151          | 10.27                 | 0.03                  | 9.85                  | 16.31             | 36.46                       | 55.96            | 19.50          | Average |
| 3  | 0.266          | 10.26                 | 0.03                  | 9.85                  | 10.34             | 30.48                       | 61.25            | 30.77          | QP      |
| 4  | 0.266          | 10.26                 | 0.03                  | 9.85                  | 5.73              | 25.87                       | 51.25            | 25.38          | Average |
| 5  | 0.499          | 10.26                 | 0.03                  | 9.85                  | 13.21             | 33.35                       | 56.01            | 22.66          | QP      |
| 6  | 0.499          | 10.26                 | 0.03                  | 9.85                  | 6.84              | 26.98                       | 46.01            | 19.03          | Average |
| 7  | 4.797          | 10.38                 | 0.09                  | 9.87                  | 8.78              | 29.12                       | 56.00            | 26.88          | QP      |
| 8  | 4.797          | 10.38                 | 0.09                  | 9.87                  | 4.27              | 24.61                       | 46.00            | 21.39          | Average |
| 9  | 6.153          | 10.44                 | 0.10                  | 9.87                  | 16.41             | 36.82                       | 60.00            | 23.18          | QP      |
| 10 | 6.153          | 10.44                 | 0.10                  | 9.87                  | 11.70             | 32.11                       | 50.00            | 17.89          | Average |
| 11 | 13.551         | 10.70                 | 0.16                  | 9.90                  | 22.97             | 43.73                       | 60.00            | 16.27          | QP      |
| 12 | 13.551         | 10.70                 | 0.16                  | 9.90                  | 17.85             | 38.61                       | 50.00            | 11.39          | Average |

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

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|              |            |            |          |
|--------------|------------|------------|----------|
| Test Date    | 2024/11/18 | Temp./Hum. | 25°C/56% |
| Test Voltage | DC 3.3V    | Tested By  | Roy Hung |



Site No. : No.8 Shielded Room  
Instrument 1 : Receiver ESR(774)  
Instrument 2 : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)  
Limit : CLASS-B (QP)  
Environment : 25°C/56%  
EUT Model : WL1BKT22  
Test Mode : Operating

Data No. : 1  
Phase : Line  
Test Rating : DC 3.3V  
Engineer : Roy Hung

|    | Freq.<br>(MHz) | AMN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Pulse<br>Att.<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV) | Limits<br>(dBμV) | Margin<br>(dB) | Remark  |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.152          | 10.26                 | 0.03                  | 9.85                  | 19.77             | 39.91                       | 65.91            | 26.00          | QP      |
| 2  | 0.152          | 10.26                 | 0.03                  | 9.85                  | 16.63             | 36.77                       | 55.91            | 19.14          | Average |
| 3  | 0.192          | 10.25                 | 0.03                  | 9.85                  | 7.33              | 27.46                       | 63.93            | 36.47          | QP      |
| 4  | 0.192          | 10.25                 | 0.03                  | 9.85                  | 3.03              | 23.16                       | 53.93            | 30.77          | Average |
| 5  | 0.486          | 10.25                 | 0.03                  | 9.85                  | 9.95              | 30.08                       | 56.23            | 26.15          | QP      |
| 6  | 0.486          | 10.25                 | 0.03                  | 9.85                  | 3.44              | 23.57                       | 46.23            | 22.66          | Average |
| 7  | 2.012          | 10.27                 | 0.06                  | 9.86                  | 8.83              | 29.02                       | 56.00            | 26.98          | QP      |
| 8  | 2.012          | 10.27                 | 0.06                  | 9.86                  | 3.99              | 24.18                       | 46.00            | 21.82          | Average |
| 9  | 6.089          | 10.37                 | 0.10                  | 9.87                  | 16.42             | 36.76                       | 60.00            | 23.24          | QP      |
| 10 | 6.089          | 10.37                 | 0.10                  | 9.87                  | 11.88             | 32.22                       | 50.00            | 17.78          | Average |
| 11 | 13.915         | 10.53                 | 0.16                  | 9.91                  | 21.25             | 41.85                       | 60.00            | 18.15          | QP      |
| 12 | 13.915         | 10.53                 | 0.16                  | 9.91                  | 15.96             | 36.56                       | 50.00            | 13.44          | Average |

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

## A.2 RADIATED EMISSION

|              |            |            |          |
|--------------|------------|------------|----------|
| Test Date    | 2024/12/16 | Temp./Hum. | 20°C/48% |
| Test Voltage | DC 3.3V    | Tested By  | Hua Wu   |

### A.2.1 Emissions within Restricted Frequency Bands

#### A.2.1.1 Frequency 9kHz~30MHz

**The emissions (9kHz~30MHz) not reported for there is no emission be found.**

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New Taipei City244, Taiwan

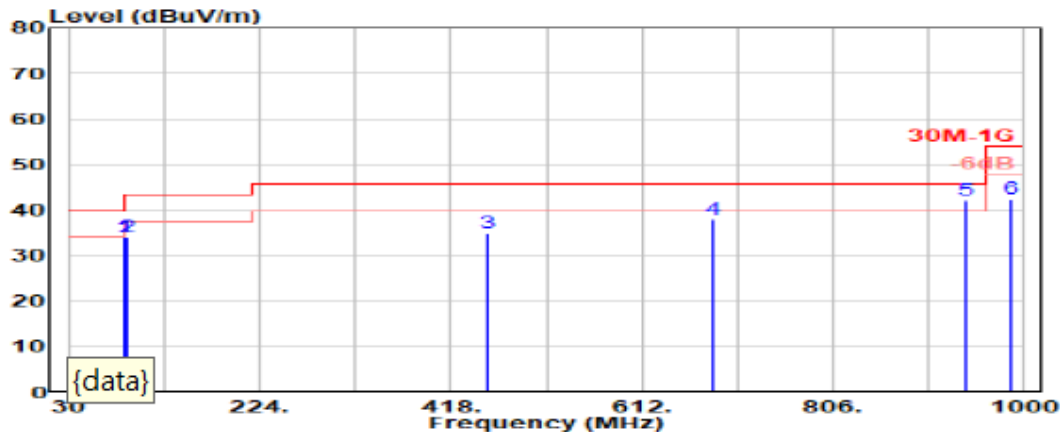
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## A.2.1.2 Frequency Below 1GHz

### ● Antenna #1

|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #1    | Frequency  | TX 5155MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5155MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 87.000         | 14.17                       | 2.45                  | 27.09                  | 44.56             | 34.08                         | 40.00              | 5.92           | Peak   |
| 2              | 89.000         | 14.56                       | 2.47                  | 27.09                  | 44.30             | 34.24                         | 43.50              | 9.26           | Peak   |
| 3              | 454.500        | 22.07                       | 6.41                  | 26.62                  | 33.10             | 34.95                         | 46.00              | 11.05          | Peak   |
| 4              | 684.500        | 24.46                       | 7.55                  | 25.74                  | 31.78             | 38.04                         | 46.00              | 7.96           | Peak   |
| 5              | 939.500        | 26.48                       | 8.98                  | 25.53                  | 32.34             | 42.26                         | 46.00              | 3.74           | Peak   |
| 6              | 986.500        | 26.89                       | 9.22                  | 25.66                  | 32.16             | 42.61                         | 54.00              | 11.39          | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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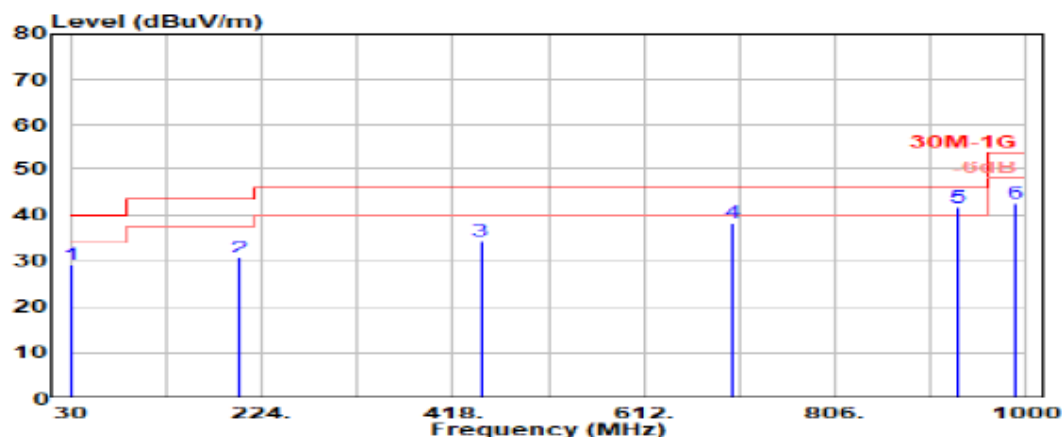
New Taipei City244, Taiwan

**Tel: +886 2 26099301**

**Fax: +886 2 26099303**

|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #1    | Frequency  | TX 5155MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5155MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 32.000         | 23.14                       | 1.46                  | 27.17                  | 31.92             | 29.35                         | 40.00              | 10.65          | Peak   |
| 2              | 202.000        | 15.03                       | 3.72                  | 26.95                  | 38.91             | 30.71                         | 43.50              | 12.79          | Peak   |
| 3              | 446.500        | 21.94                       | 6.34                  | 26.64                  | 32.80             | 34.44                         | 46.00              | 11.56          | Peak   |
| 4              | 702.500        | 24.54                       | 7.65                  | 25.67                  | 31.71             | 38.21                         | 46.00              | 7.79           | Peak   |
| 5              | 929.500        | 26.39                       | 8.92                  | 25.51                  | 31.90             | 41.70                         | 46.00              | 4.30           | Peak   |
| 6              | 988.000        | 26.90                       | 9.23                  | 25.67                  | 32.09             | 42.54                         | 54.00              | 11.46          | Peak   |

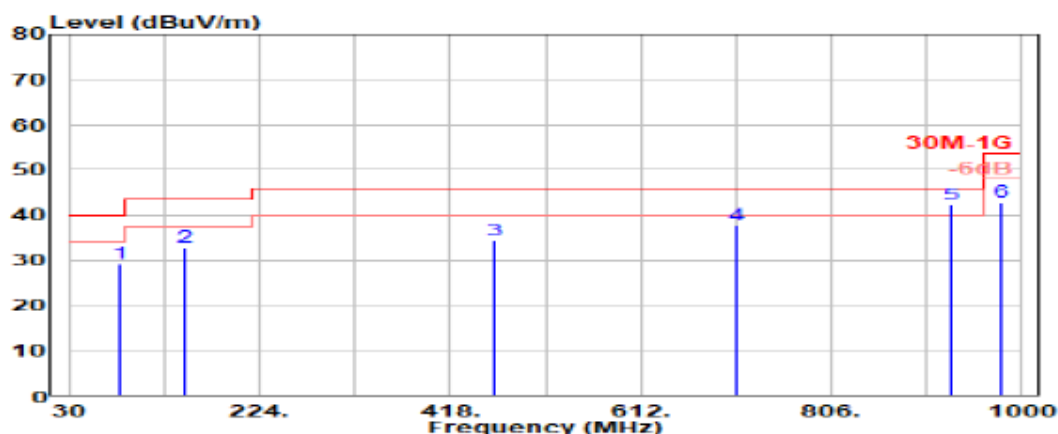
Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBuV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #1    | Frequency  | TX 5195MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821) | RE-11 | 8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5195MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 83.000         | 13.28                       | 2.40                  | 27.10                  | 40.66             | 29.24                         | 40.00              | 10.76          | Peak   |
| 2              | 148.500        | 16.41                       | 3.18                  | 27.01                  | 40.20             | 32.78                         | 43.50              | 10.72          | Peak   |
| 3              | 463.000        | 22.24                       | 6.47                  | 26.61                  | 32.23             | 34.33                         | 46.00              | 11.67          | Peak   |
| 4              | 710.500        | 24.57                       | 7.69                  | 25.65                  | 31.24             | 37.85                         | 46.00              | 8.15           | Peak   |
| 5              | 928.000        | 26.38                       | 8.91                  | 25.50                  | 32.57             | 42.36                         | 46.00              | 3.64           | Peak   |
| 6              | 980.000        | 26.83                       | 9.19                  | 25.65                  | 32.36             | 42.73                         | 54.00              | 11.27          | Peak   |

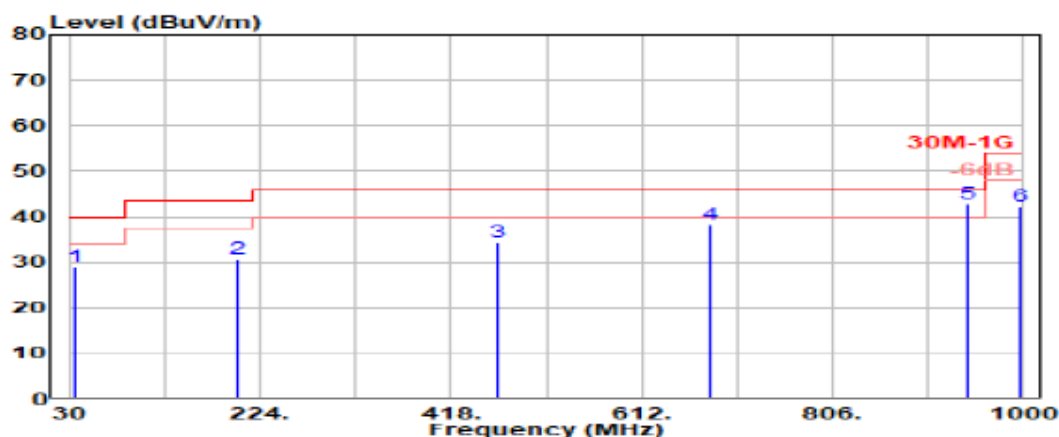
Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBuV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #1    | Frequency  | TX 5195MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5195MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 35.000         | 21.86                       | 1.53                  | 27.17                  | 32.63             | 28.85                         | 40.00              | 11.15          | Peak   |
| 2              | 201.500        | 15.00                       | 3.72                  | 26.95                  | 39.01             | 30.77                         | 43.50              | 12.73          | Peak   |
| 3              | 464.500        | 22.26                       | 6.49                  | 26.60                  | 32.16             | 34.31                         | 46.00              | 11.69          | Peak   |
| 4              | 681.500        | 24.45                       | 7.54                  | 25.75                  | 32.18             | 38.41                         | 46.00              | 7.59           | Peak   |
| 5              | 944.000        | 26.53                       | 9.00                  | 25.55                  | 33.03             | 43.01                         | 46.00              | 2.99           | Peak   |
| 6              | 995.500        | 26.97                       | 9.27                  | 25.69                  | 31.74             | 42.29                         | 54.00              | 11.71          | Peak   |

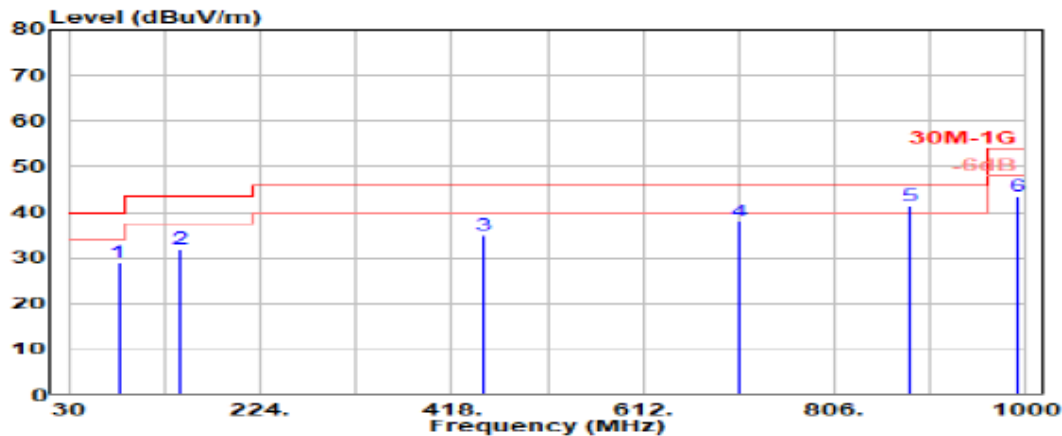
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #1    | Frequency  | TX 5245MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5245MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 80.500         | 12.74                       | 2.37                  | 27.10                  | 40.98             | 28.98                         | 40.00              | 11.02          | Peak   |
| 2              | 144.000        | 16.76                       | 3.13                  | 27.01                  | 39.09             | 31.98                         | 43.50              | 11.52          | Peak   |
| 3              | 450.500        | 22.01                       | 6.37                  | 26.63                  | 33.32             | 35.06                         | 46.00              | 10.94          | Peak   |
| 4              | 709.000        | 24.57                       | 7.68                  | 25.65                  | 31.42             | 38.01                         | 46.00              | 7.99           | Peak   |
| 5              | 882.500        | 25.95                       | 8.67                  | 25.42                  | 32.28             | 41.48                         | 46.00              | 4.52           | Peak   |
| 6              | 990.500        | 26.92                       | 9.24                  | 25.67                  | 32.85             | 43.34                         | 54.00              | 10.66          | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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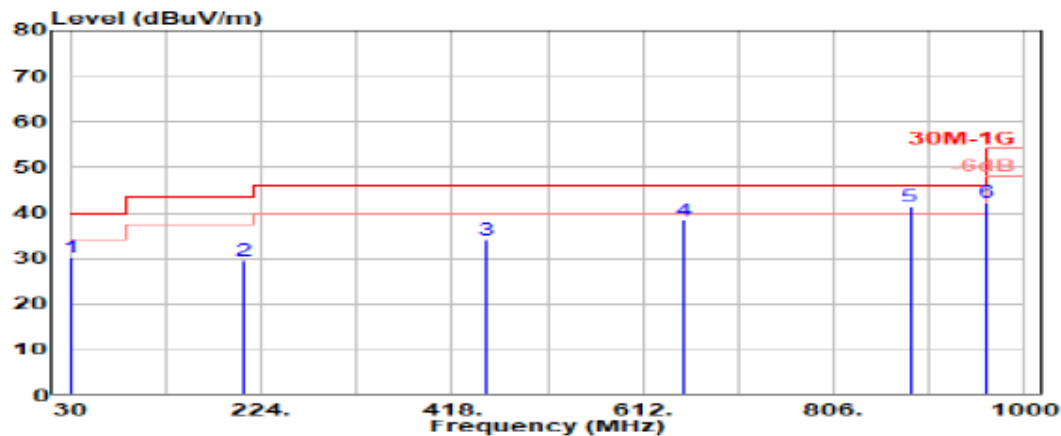
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #1    | Frequency  | TX 5245MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL18KT22 Engineer : Hua  
Test Memo : Tx 5245MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamplifier<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 31.500         | 23.36                       | 1.45                  | 27.17                        | 32.70             | 30.34                         | 40.00              | 9.66           | Peak   |
| 2              | 205.500        | 15.25                       | 3.77                  | 26.94                        | 37.50             | 29.57                         | 43.50              | 13.93          | Peak   |
| 3              | 452.500        | 22.04                       | 6.39                  | 26.63                        | 32.46             | 34.26                         | 46.00              | 11.74          | Peak   |
| 4              | 653.000        | 24.31                       | 7.39                  | 25.87                        | 32.48             | 38.31                         | 46.00              | 7.69           | Peak   |
| 5              | 883.500        | 25.96                       | 8.67                  | 25.42                        | 32.29             | 41.50                         | 46.00              | 4.50           | Peak   |
| 6              | 962.000        | 26.67                       | 9.10                  | 25.60                        | 32.08             | 42.25                         | 54.00              | 11.75          | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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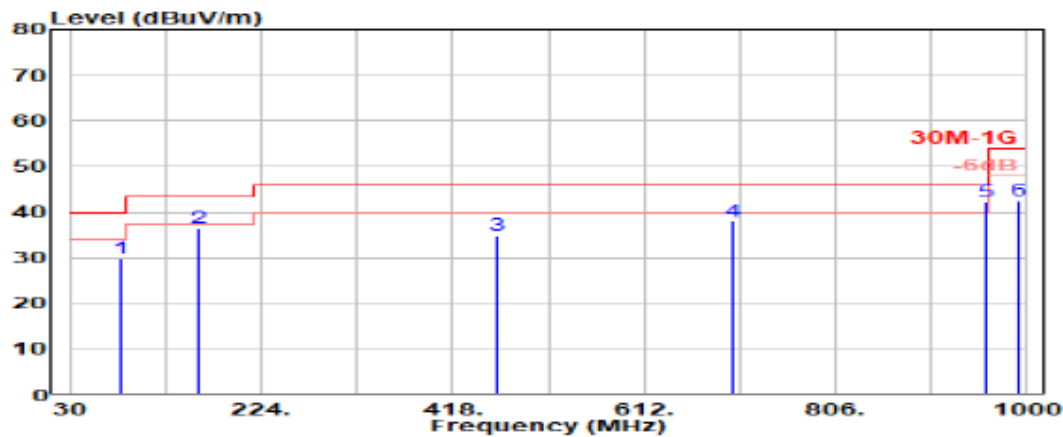
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #1    | Frequency  | TX 5730MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5730MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamplifier<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 82.000         | 13.09                       | 2.39                  | 27.10                        | 41.40             | 29.78                         | 40.00              | 10.22          | Peak   |
| 2              | 161.500        | 15.53                       | 3.32                  | 26.99                        | 44.82             | 36.67                         | 43.50              | 6.83           | Peak   |
| 3              | 464.000        | 22.25                       | 6.48                  | 26.60                        | 33.00             | 35.14                         | 46.00              | 10.86          | Peak   |
| 4              | 703.000        | 24.54                       | 7.65                  | 25.67                        | 31.65             | 38.16                         | 46.00              | 7.84           | Peak   |
| 5              | 957.500        | 26.64                       | 9.07                  | 25.58                        | 32.22             | 42.34                         | 46.00              | 3.66           | Peak   |
| 6              | 991.500        | 26.93                       | 9.25                  | 25.68                        | 32.00             | 42.50                         | 54.00              | 11.50          | Peak   |

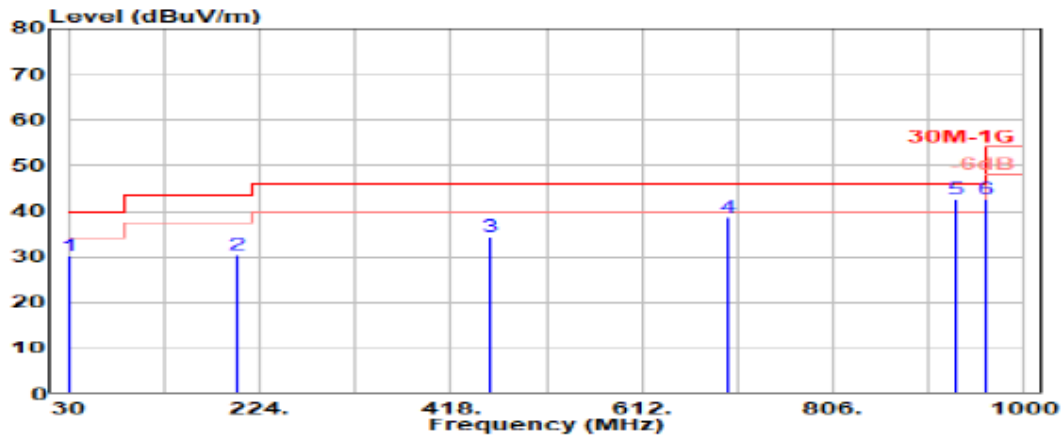
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamplifier Gain(dB)  
+ Reading(dBμV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #1    | Frequency  | TX 5730MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5730MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 31.500         | 23.36                       | 1.45                  | 27.17                  | 32.46             | 30.09                         | 40.00              | 9.91           | Peak   |
| 2              | 202.000        | 15.03                       | 3.72                  | 26.95                  | 38.63             | 30.43                         | 43.50              | 13.07          | Peak   |
| 3              | 457.000        | 22.12                       | 6.43                  | 26.62                  | 32.55             | 34.48                         | 46.00              | 11.52          | Peak   |
| 4              | 699.500        | 24.52                       | 7.63                  | 25.68                  | 32.06             | 38.52                         | 46.00              | 7.48           | Peak   |
| 5              | 931.000        | 26.40                       | 8.93                  | 25.51                  | 32.73             | 42.55                         | 46.00              | 3.45           | Peak   |
| 6              | 962.000        | 26.67                       | 9.10                  | 25.60                  | 32.33             | 42.50                         | 54.00              | 11.50          | Peak   |

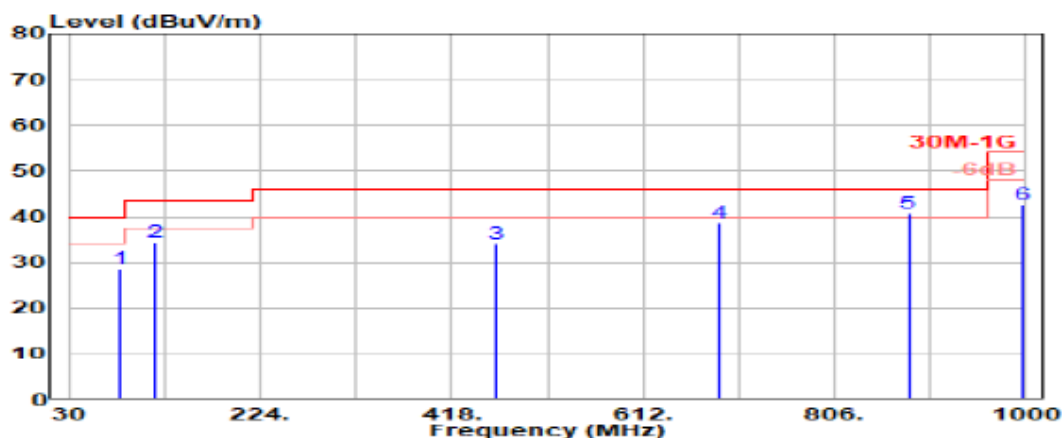
Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBuV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #1    | Frequency  | TX 5790MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5790MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 81.500         | 12.96                       | 2.38                  | 27.10                  | 40.55             | 28.79                         | 40.00              | 11.21          | Peak   |
| 2              | 118.500        | 17.84                       | 2.83                  | 27.05                  | 40.79             | 34.41                         | 43.50              | 9.09           | Peak   |
| 3              | 463.000        | 22.24                       | 6.47                  | 26.61                  | 32.03             | 34.14                         | 46.00              | 11.86          | Peak   |
| 4              | 690.000        | 24.48                       | 7.58                  | 25.72                  | 32.32             | 38.66                         | 46.00              | 7.34           | Peak   |
| 5              | 881.000        | 25.94                       | 8.66                  | 25.42                  | 31.61             | 40.79                         | 46.00              | 5.21           | Peak   |
| 6              | 997.000        | 26.98                       | 9.27                  | 25.69                  | 32.08             | 42.64                         | 54.00              | 11.36          | Peak   |

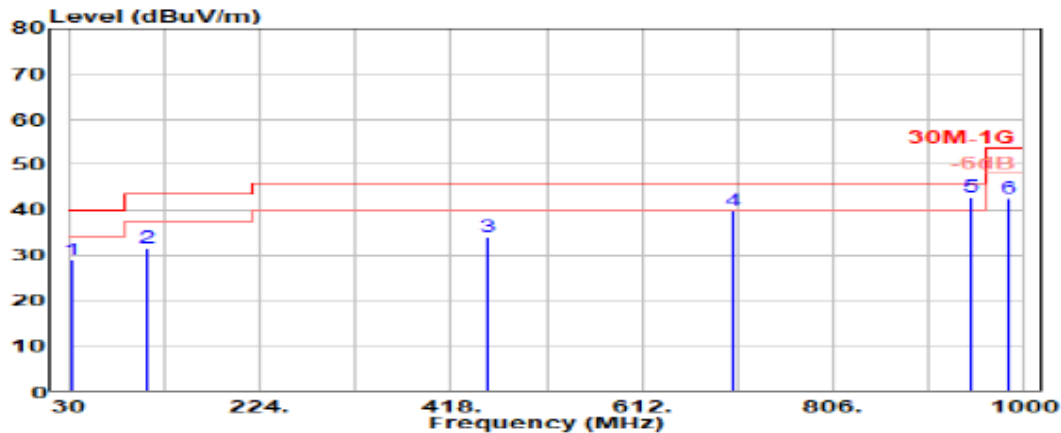
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #1    | Frequency  | TX 5790MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5790MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamplifier<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 33.000         | 22.69                       | 1.48                  | 27.17                        | 31.83             | 28.83                         | 40.00              | 11.17          | Peak   |
| 2              | 110.000        | 17.21                       | 2.74                  | 27.06                        | 38.67             | 31.55                         | 43.50              | 11.95          | Peak   |
| 3              | 456.500        | 22.11                       | 6.42                  | 26.62                        | 32.21             | 34.12                         | 46.00              | 11.88          | Peak   |
| 4              | 705.000        | 24.55                       | 7.66                  | 25.67                        | 33.45             | 40.00                         | 46.00              | 6.00           | Peak   |
| 5              | 945.500        | 26.54                       | 9.01                  | 25.55                        | 32.83             | 42.83                         | 46.00              | 3.17           | Peak   |
| 6              | 984.500        | 26.88                       | 9.21                  | 25.66                        | 32.15             | 42.58                         | 54.00              | 11.42          | Peak   |

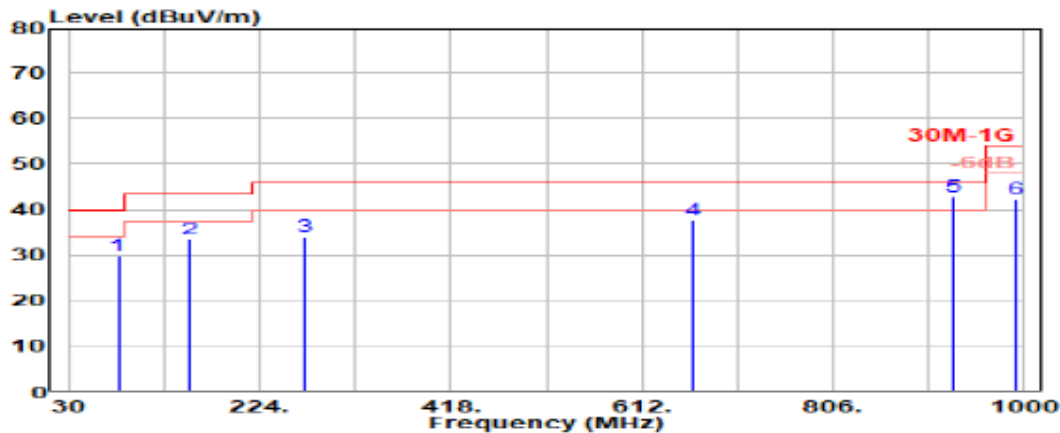
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamplifier Gain(dB)  
+ Reading(dBμV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #1    | Frequency  | TX 5848MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G  
Environment : 20°C / 48%  
EUT Model : WL1BKT22  
Test Memo : Tx 5848MHz(GFSK)  
: ANT1  
:  
Ant. Pol : HORIZONTAL  
Test Rating : DC 3.3V  
Engineer : Hua

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 80.500         | 12.74                       | 2.37                  | 27.10                  | 41.96             | 29.96                         | 40.00              | 10.04          | Peak   |
| 2              | 153.000        | 16.06                       | 3.23                  | 27.00                  | 41.24             | 33.53                         | 43.50              | 9.97           | Peak   |
| 3              | 270.000        | 18.18                       | 4.44                  | 26.86                  | 38.31             | 34.07                         | 46.00              | 11.93          | Peak   |
| 4              | 663.500        | 24.36                       | 7.45                  | 25.83                  | 31.88             | 37.86                         | 46.00              | 8.14           | Peak   |
| 5              | 927.500        | 26.38                       | 8.91                  | 25.50                  | 33.02             | 42.81                         | 46.00              | 3.19           | Peak   |
| 6              | 991.500        | 26.93                       | 9.25                  | 25.68                  | 31.90             | 42.40                         | 54.00              | 11.60          | Peak   |

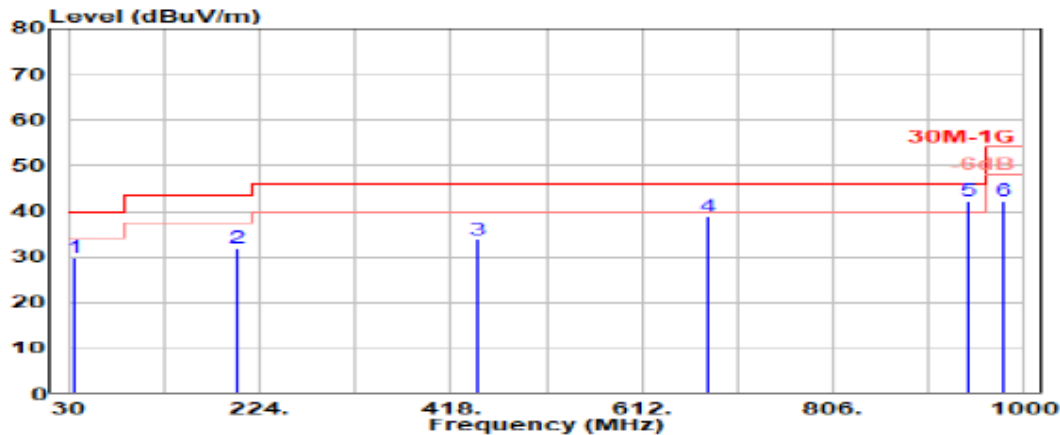
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #1    | Frequency  | TX 5848MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G  
Environment : 20°C / 48%  
EUT Model : WL1BKT22  
Test Memo : Tx 5848MHz(GFSK)  
: ANT1  
:  
Ant. Pol : Vertical  
Test Rating : DC 3.3V  
Engineer : Hua

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 35.000         | 21.86                       | 1.53                  | 27.17                  | 33.58             | 29.81                         | 40.00              | 10.19          | Peak   |
| 2              | 202.000        | 15.03                       | 3.72                  | 26.95                  | 40.17             | 31.98                         | 43.50              | 11.52          | Peak   |
| 3              | 445.000        | 21.92                       | 6.33                  | 26.64                  | 32.28             | 33.88                         | 46.00              | 12.12          | Peak   |
| 4              | 679.500        | 24.44                       | 7.53                  | 25.76                  | 32.62             | 38.82                         | 46.00              | 7.18           | Peak   |
| 5              | 944.000        | 26.53                       | 9.00                  | 25.55                  | 32.35             | 42.33                         | 46.00              | 3.67           | Peak   |
| 6              | 980.000        | 26.83                       | 9.19                  | 25.65                  | 31.86             | 42.23                         | 54.00              | 11.77          | Peak   |

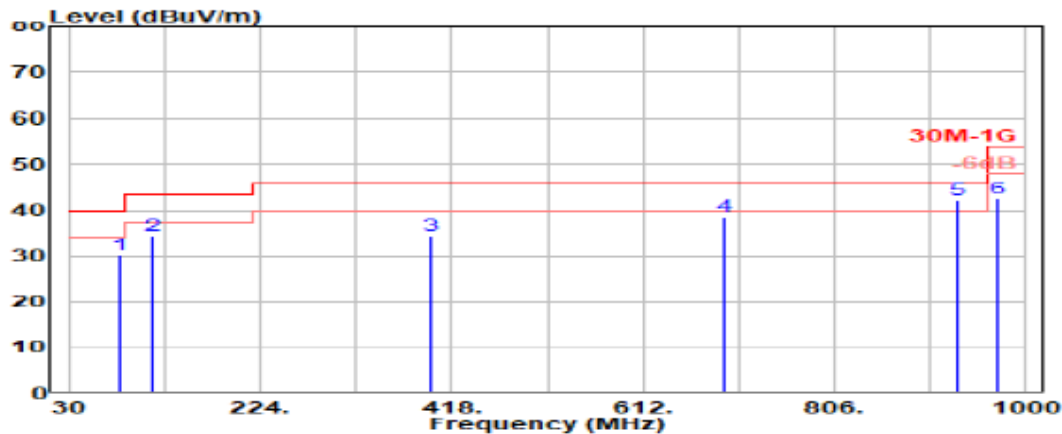
Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBuV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #2    | Frequency  | TX 5155MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5155MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 81.500         | 12.96                       | 2.38                  | 27.10                  | 41.92             | 30.16                         | 40.00              | 9.84           | Peak   |
| 2              | 115.000        | 17.57                       | 2.79                  | 27.05                  | 41.16             | 34.47                         | 43.50              | 9.03           | Peak   |
| 3              | 396.500        | 21.03                       | 5.89                  | 26.75                  | 34.10             | 34.27                         | 46.00              | 11.73          | Peak   |
| 4              | 694.000        | 24.50                       | 7.60                  | 25.70                  | 32.35             | 38.74                         | 46.00              | 7.26           | Peak   |
| 5              | 931.500        | 26.41                       | 8.93                  | 25.51                  | 32.39             | 42.22                         | 46.00              | 3.78           | Peak   |
| 6              | 971.000        | 26.75                       | 9.14                  | 25.62                  | 32.17             | 42.44                         | 54.00              | 11.56          | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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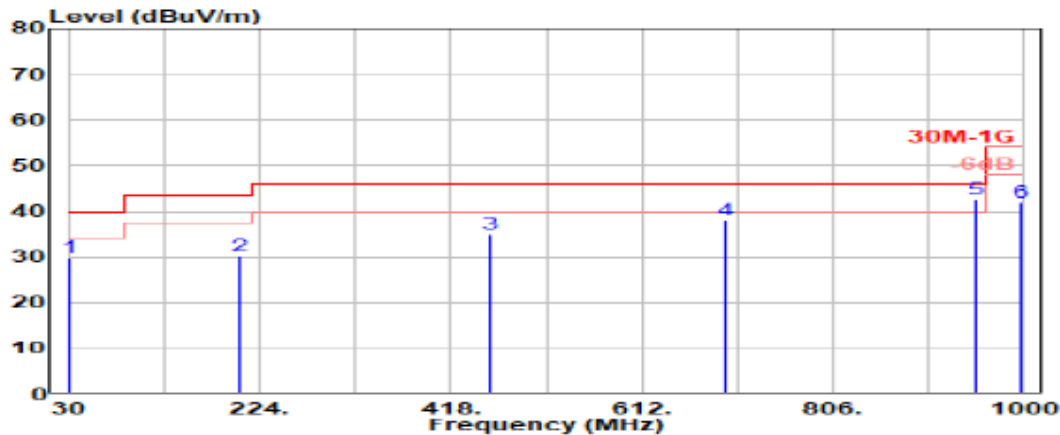
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #2    | Frequency  | TX 5155MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G  
Environment : 20°C / 48%  
EUT Model : WL1BKT22  
Test Memo : Tx 5155MHz(GFSK)  
: ANT2  
: Ant. Pol : Vertical  
Test Rating : DC 3.3V  
Engineer : Hua

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 31.500         | 23.36                       | 1.45                  | 27.17                  | 32.33             | 29.96                         | 40.00              | 10.04          | Peak   |
| 2              | 204.500        | 15.19                       | 3.76                  | 26.94                  | 38.06             | 30.06                         | 43.50              | 13.44          | Peak   |
| 3              | 458.500        | 22.16                       | 6.44                  | 26.62                  | 32.93             | 34.91                         | 46.00              | 11.09          | Peak   |
| 4              | 696.000        | 24.50                       | 7.61                  | 25.70                  | 31.53             | 37.94                         | 46.00              | 8.06           | Peak   |
| 5              | 950.500        | 26.57                       | 9.03                  | 25.57                  | 32.43             | 42.47                         | 46.00              | 3.53           | Peak   |
| 6              | 995.500        | 26.97                       | 9.27                  | 25.69                  | 31.51             | 42.06                         | 54.00              | 11.94          | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

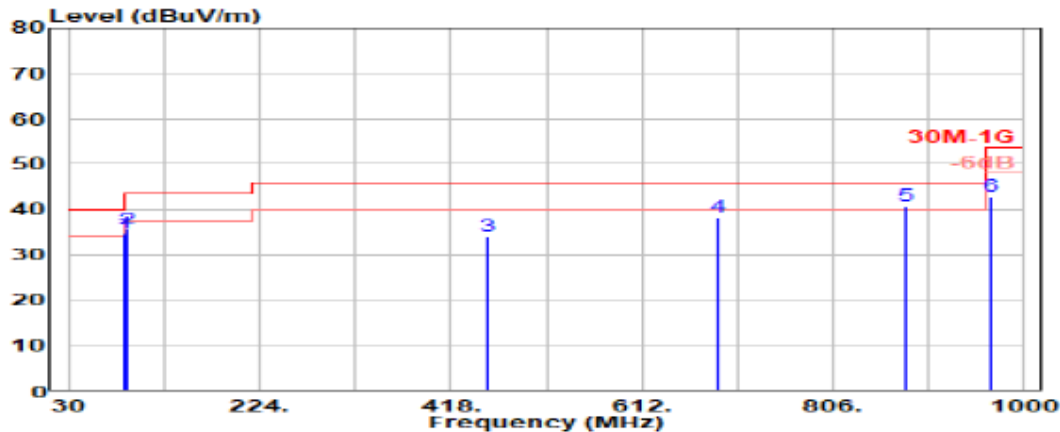
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## ● Antenna #2

|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #2    | Frequency  | TX 5195MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL18KT22 Engineer : Hua  
Test Memo : Tx 5195MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 87.000         | 14.17                       | 2.45                  | 27.09                  | 45.27             | 34.79                         | 40.00              | 5.21           | Peak   |
| 2              | 89.500         | 14.66                       | 2.47                  | 27.09                  | 45.72             | 35.76                         | 43.50              | 7.74           | Peak   |
| 3              | 455.000        | 22.08                       | 6.41                  | 26.62                  | 32.34             | 34.21                         | 46.00              | 11.79          | Peak   |
| 4              | 688.000        | 24.47                       | 7.57                  | 25.73                  | 32.15             | 38.46                         | 46.00              | 7.54           | Peak   |
| 5              | 878.500        | 25.91                       | 8.65                  | 25.42                  | 31.76             | 40.90                         | 46.00              | 5.10           | Peak   |
| 6              | 966.000        | 26.72                       | 9.12                  | 25.61                  | 32.56             | 42.78                         | 54.00              | 11.22          | Peak   |

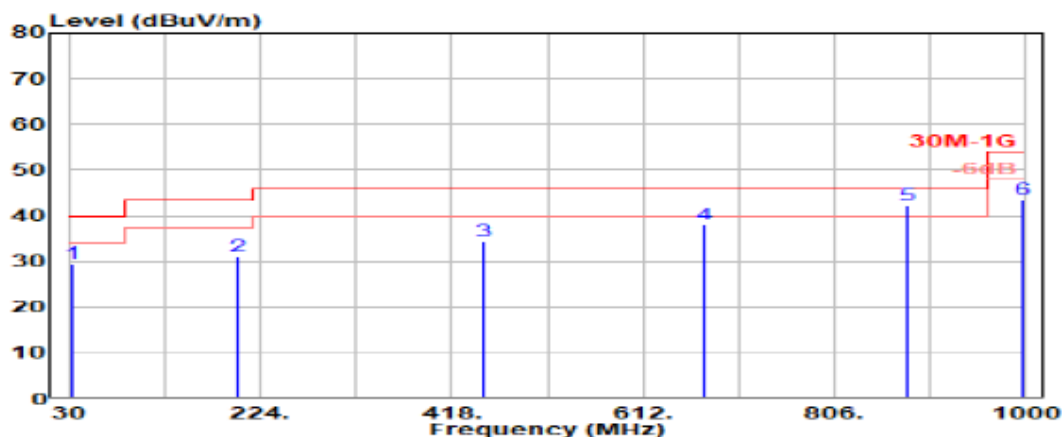
Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #2    | Frequency  | TX 5195MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G  
Environment : 20°C / 48%  
EUT Model : WL1BKT22  
Test Memo : Tx 5195MHz(GFSK)  
: ANT2  
:  
Ant. Pol : Vertical  
Test Rating : DC 3.3V  
Engineer : Hua

| Item (Mark) | Freq. (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Reading (dBUV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Remark |
|-------------|-------------|-----------------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|--------|
| 1           | 34.500      | 22.05                 | 1.52            | 27.17            | 33.16          | 29.57                   | 40.00           | 10.43       | Peak   |
| 2           | 201.500     | 15.00                 | 3.72            | 26.95            | 39.29          | 31.05                   | 43.50           | 12.45       | Peak   |
| 3           | 451.000     | 22.02                 | 6.38            | 26.63            | 32.59          | 34.35                   | 46.00           | 11.65       | Peak   |
| 4           | 673.000     | 24.41                 | 7.49            | 25.79            | 31.78          | 37.90                   | 46.00           | 8.10        | Peak   |
| 5           | 880.000     | 25.93                 | 8.65            | 25.42            | 33.20          | 42.37                   | 46.00           | 3.63        | Peak   |
| 6           | 997.500     | 26.99                 | 9.28            | 25.69            | 32.83          | 43.40                   | 54.00           | 10.60       | Peak   |

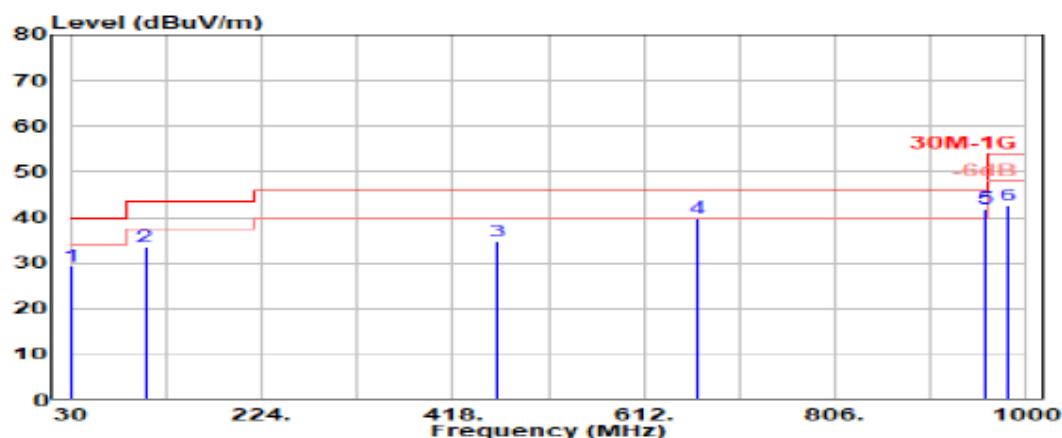
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB) + Reading(dBμV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #2    | Frequency  | TX 5245MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5245MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamplifier<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 31.500         | 23.36                       | 1.45                  | 27.17                        | 31.54             | 29.18                         | 40.00              | 10.82          | Peak   |
| 2              | 106.000        | 16.88                       | 2.69                  | 27.07                        | 40.94             | 33.44                         | 43.50              | 10.06          | Peak   |
| 3              | 464.000        | 22.25                       | 6.48                  | 26.60                        | 32.49             | 34.62                         | 46.00              | 11.38          | Peak   |
| 4              | 666.500        | 24.38                       | 7.46                  | 25.82                        | 33.76             | 39.78                         | 46.00              | 6.22           | Peak   |
| 5              | 958.500        | 26.64                       | 9.08                  | 25.59                        | 31.90             | 42.03                         | 46.00              | 3.97           | Peak   |
| 6              | 981.500        | 26.85                       | 9.20                  | 25.65                        | 32.12             | 42.51                         | 54.00              | 11.49          | Peak   |

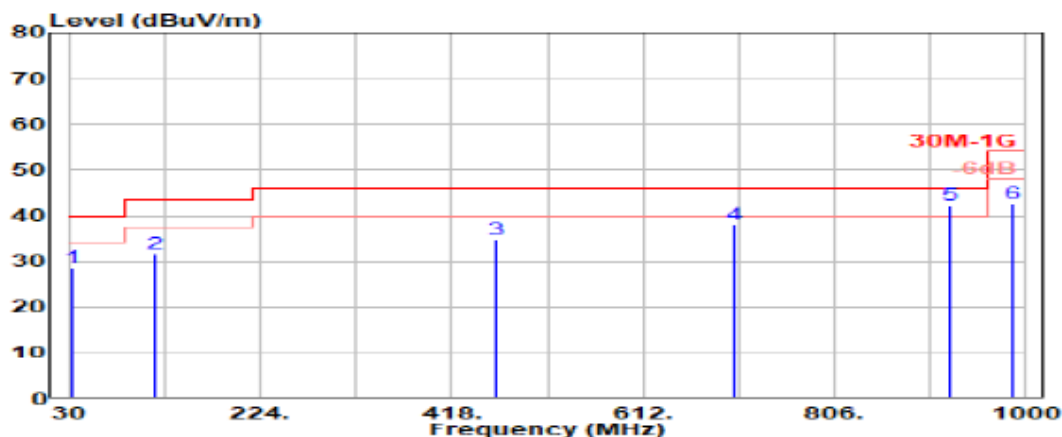
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamplifier Gain(dB)  
+ Reading(dBμV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #2    | Frequency  | TX 5245MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G  
Environment : 20°C / 48%  
EUT Model : WL1BKT22  
Test Memo : Tx 5245MHz(GFSK)  
: ANT2  
:  
Ant. Pol : Vertical  
Test Rating : DC 3.3V  
Engineer : Hua

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 33.500         | 22.47                       | 1.50                  | 27.17                  | 31.96             | 28.76                         | 40.00              | 11.24          | Peak   |
| 2              | 118.500        | 17.84                       | 2.83                  | 27.05                  | 38.00             | 31.62                         | 43.50              | 11.88          | Peak   |
| 3              | 463.000        | 22.24                       | 6.47                  | 26.61                  | 32.74             | 34.85                         | 46.00              | 11.15          | Peak   |
| 4              | 705.000        | 24.55                       | 7.66                  | 25.67                  | 31.39             | 37.94                         | 46.00              | 8.06           | Peak   |
| 5              | 923.000        | 26.34                       | 8.89                  | 25.49                  | 32.48             | 42.22                         | 46.00              | 3.78           | Peak   |
| 6              | 985.500        | 26.88                       | 9.22                  | 25.66                  | 32.05             | 42.48                         | 54.00              | 11.52          | Peak   |

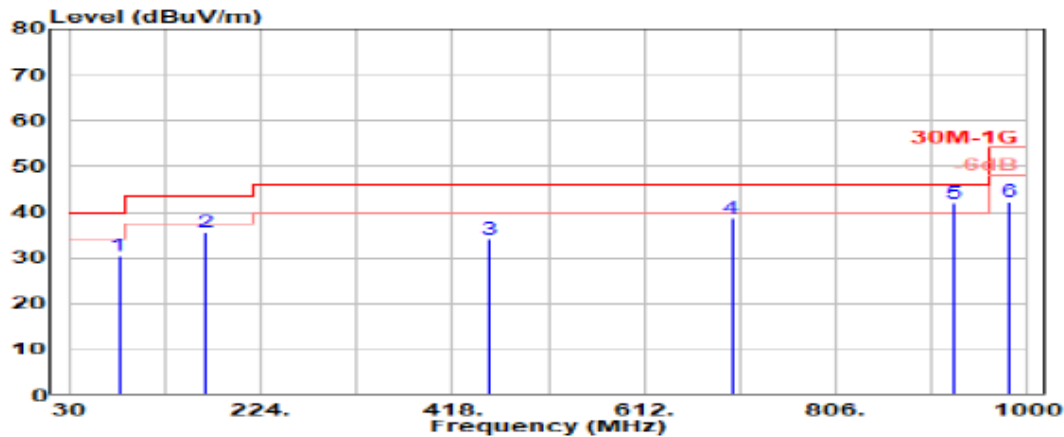
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #2    | Frequency  | TX 5730MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G  
Environment : 20°C / 48%  
EUT Model : WL1BKT22  
Test Memo : Tx 5730MHz(GFSK)  
: ANT2  
:   
Ant. Pol : HORIZONTAL  
Test Rating : DC 3.3V  
Engineer : Hua

| Item (Mark) | Freq. (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Gain (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-------------|-------------|-----------------------|-----------------|------------------|----------------|-------------------------|-----------------|-------------|--------|
| 1           | 80.500      | 12.74                 | 2.37            | 27.10            | 42.34          | 30.34                   | 40.00           | 9.66        | Peak   |
| 2           | 168.000     | 15.27                 | 3.39            | 26.98            | 43.86          | 35.53                   | 43.50           | 7.97        | Peak   |
| 3           | 454.500     | 22.07                 | 6.41            | 26.62            | 32.39          | 34.24                   | 46.00           | 11.76       | Peak   |
| 4           | 700.500     | 24.52                 | 7.63            | 25.68            | 32.09          | 38.57                   | 46.00           | 7.43        | Peak   |
| 5           | 924.500     | 26.35                 | 8.90            | 25.49            | 32.34          | 42.09                   | 46.00           | 3.91        | Peak   |
| 6           | 982.500     | 26.86                 | 9.20            | 25.65            | 31.97          | 42.37                   | 54.00           | 11.63       | Peak   |

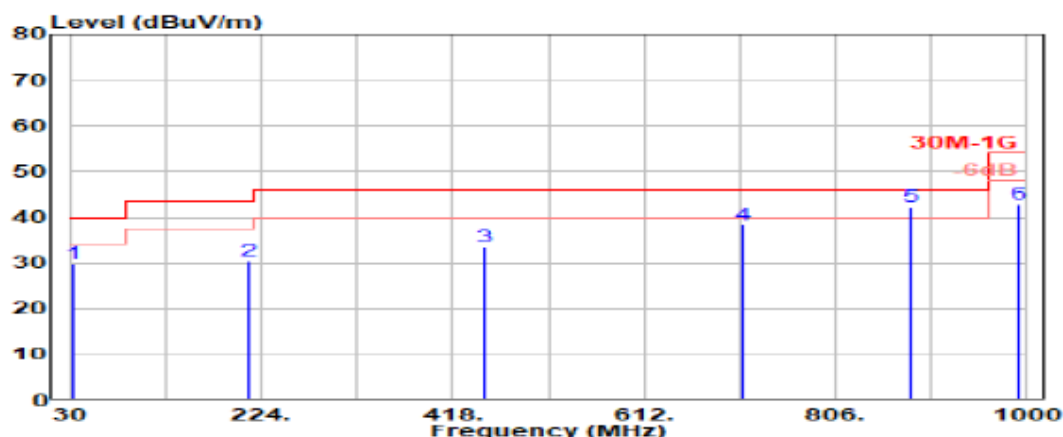
Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB) + Reading(dBuV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #2    | Frequency  | TX 5730MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5730MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 34.000         | 22.25                       | 1.51                  | 27.17                  | 33.20             | 29.79                         | 40.00              | 10.21          | Peak   |
| 2              | 212.500        | 15.71                       | 3.85                  | 26.93                  | 37.83             | 30.46                         | 43.50              | 13.04          | Peak   |
| 3              | 450.500        | 22.01                       | 6.37                  | 26.63                  | 31.83             | 33.58                         | 46.00              | 12.42          | Peak   |
| 4              | 711.500        | 24.58                       | 7.70                  | 25.65                  | 31.58             | 38.21                         | 46.00              | 7.79           | Peak   |
| 5              | 882.000        | 25.95                       | 8.66                  | 25.42                  | 32.99             | 42.18                         | 46.00              | 3.82           | Peak   |
| 6              | 990.500        | 26.92                       | 9.24                  | 25.67                  | 32.24             | 42.73                         | 54.00              | 11.27          | Peak   |

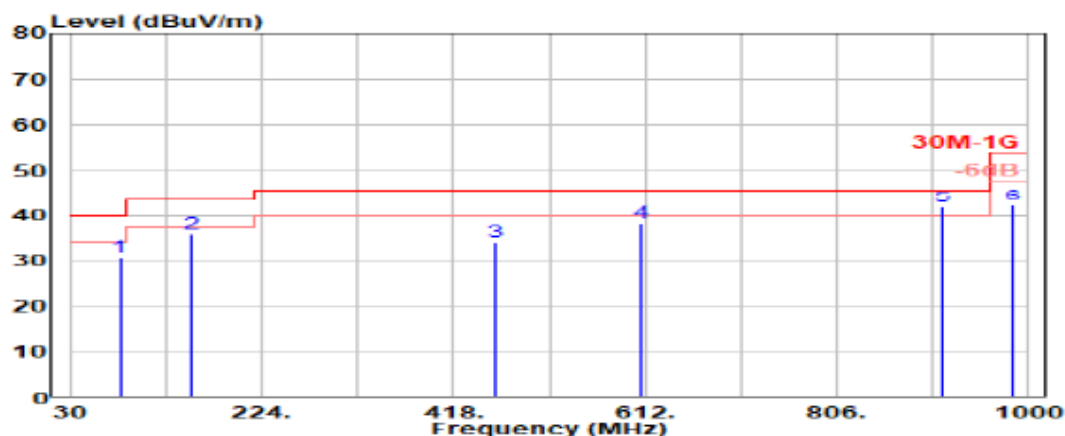
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #2    | Frequency  | TX 5790MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5790MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 80.500         | 12.74                       | 2.37                  | 27.10                  | 42.80             | 30.80                         | 40.00              | 9.20           | Peak   |
| 2              | 153.000        | 16.06                       | 3.23                  | 27.00                  | 43.74             | 36.03                         | 43.50              | 7.47           | Peak   |
| 3              | 461.000        | 22.21                       | 6.46                  | 26.61                  | 32.21             | 34.26                         | 46.00              | 11.74          | Peak   |
| 4              | 607.000        | 24.10                       | 7.14                  | 26.08                  | 33.15             | 38.31                         | 46.00              | 7.69           | Peak   |
| 5              | 913.500        | 26.26                       | 8.83                  | 25.46                  | 32.45             | 42.08                         | 46.00              | 3.92           | Peak   |
| 6              | 985.000        | 26.88                       | 9.21                  | 25.66                  | 31.69             | 42.12                         | 54.00              | 11.88          | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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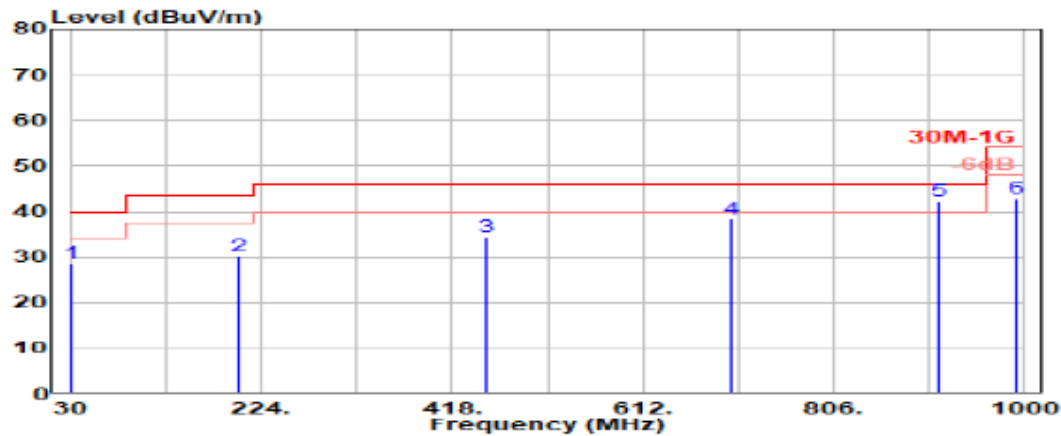
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New Taipei City244, Taiwan

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #2    | Frequency  | TX 5790MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
 Instrument 1 : Spectrum N9010A(071)  
 Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
 Instrument 3 :  
 Distance/Limit : 3m/30M-1G  
 Environment : 20°C / 48%  
 EUT Model : WL1BKT22  
 Test Memo : Tx 5790MHz(GFSK)  
 : ANT2  
 :  
 Ant. Pol : Vertical  
 Test Rating : DC 3.3V  
 Engineer : Hua

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamplifier<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 31.000         | 23.58                       | 1.44                  | 27.17                        | 30.89             | 28.73                         | 40.00              | 11.27          | Peak   |
| 2              | 201.000        | 14.96                       | 3.71                  | 26.95                        | 38.47             | 30.19                         | 43.50              | 13.31          | Peak   |
| 3              | 453.000        | 22.05                       | 6.39                  | 26.63                        | 32.63             | 34.44                         | 46.00              | 11.56          | Peak   |
| 4              | 701.500        | 24.53                       | 7.64                  | 25.68                        | 31.80             | 38.29                         | 46.00              | 7.71           | Peak   |
| 5              | 913.000        | 26.25                       | 8.83                  | 25.46                        | 32.61             | 42.24                         | 46.00              | 3.76           | Peak   |
| 6              | 991.000        | 26.92                       | 9.24                  | 25.68                        | 32.46             | 42.95                         | 54.00              | 11.05          | Peak   |

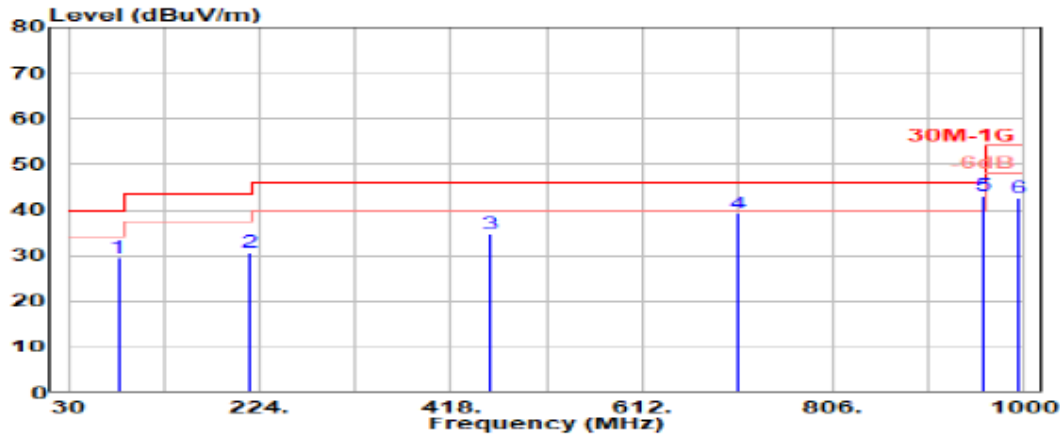
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB) + Reading(dBμV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #2    | Frequency  | TX 5848MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5848MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 80.500         | 12.74                       | 2.37                  | 27.10                  | 41.49             | 29.49                         | 40.00              | 10.51          | Peak   |
| 2              | 213.000        | 15.74                       | 3.86                  | 26.93                  | 38.11             | 30.78                         | 43.50              | 12.72          | Peak   |
| 3              | 457.000        | 22.12                       | 6.43                  | 26.62                  | 32.70             | 34.63                         | 46.00              | 11.37          | Peak   |
| 4              | 710.500        | 24.57                       | 7.69                  | 25.65                  | 32.50             | 39.12                         | 46.00              | 6.88           | Peak   |
| 5              | 957.500        | 26.64                       | 9.07                  | 25.58                  | 32.98             | 43.10                         | 46.00              | 2.90           | Peak   |
| 6              | 993.500        | 26.95                       | 9.26                  | 25.68                  | 31.94             | 42.47                         | 54.00              | 11.53          | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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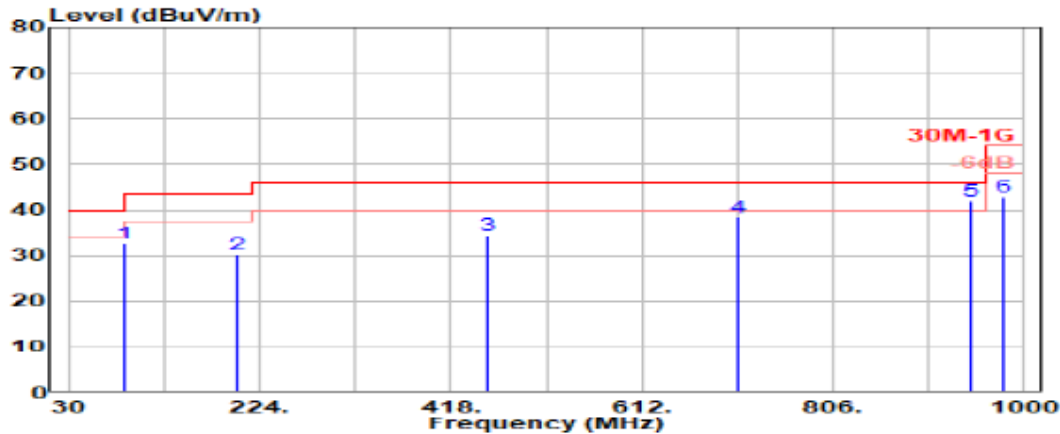
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**Fax: +886 2 26099303**

|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #2    | Frequency  | TX 5848MHz |

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010A(071)  
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)  
Instrument 3 :  
Distance/Limit : 3m/30M-1G  
Environment : 20°C / 48%  
EUT Model : WL1BKT22  
Test Memo : Tx 5848MHz(GFSK)  
: ANT2  
:  
Ant. Pol : Vertical  
Test Rating : DC 3.3V  
Engineer : Hua

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 87.000         | 14.17                       | 2.45                  | 27.09                  | 43.03             | 32.56                         | 40.00              | 7.44           | Peak   |
| 2              | 201.000        | 14.96                       | 3.71                  | 26.95                  | 38.52             | 30.25                         | 43.50              | 13.25          | Peak   |
| 3              | 454.500        | 22.07                       | 6.41                  | 26.62                  | 32.60             | 34.46                         | 46.00              | 11.54          | Peak   |
| 4              | 710.000        | 24.57                       | 7.69                  | 25.65                  | 31.73             | 38.34                         | 46.00              | 7.66           | Peak   |
| 5              | 945.000        | 26.54                       | 9.01                  | 25.55                  | 32.09             | 42.09                         | 46.00              | 3.91           | Peak   |
| 6              | 979.000        | 26.82                       | 9.18                  | 25.64                  | 32.52             | 42.89                         | 54.00              | 11.11          | Peak   |

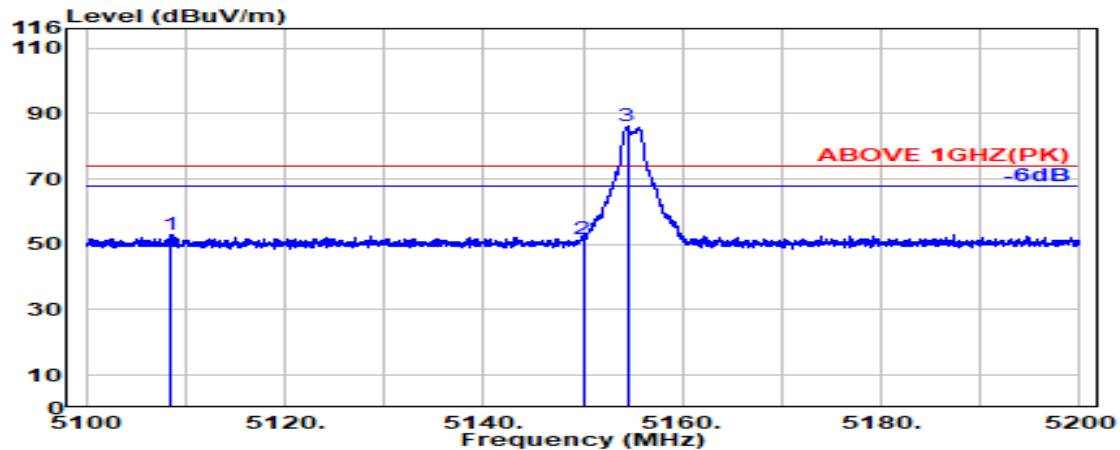
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

## A.2.1.3 Frequency Above 1 GHz to 10<sup>th</sup> harmonics

### Band Edge:

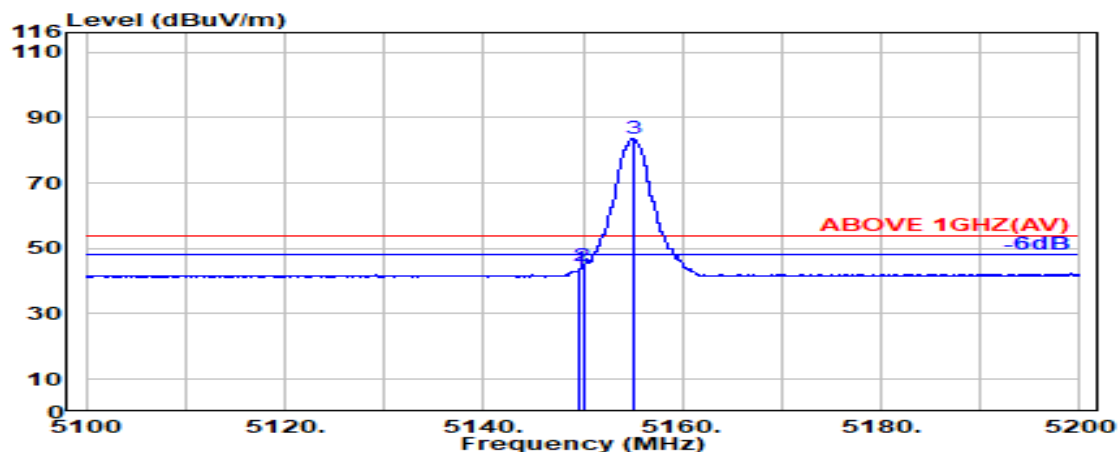
#### ● Antenna #1

|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #1    | Frequency  | TX 5155MHz |



### Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|----------------|-------------------------|-----------------|-------------|----------|
| 5108.600                 | 33.70                 | 8.52            | 34.26                  | 44.81          | 52.77                   | 74.00           | 21.23       | Peak     |
| 5150.000                 | 33.70                 | 8.54            | 34.24                  | 43.62          | 51.63                   | 74.00           | 22.37       | Peak     |
| @ 5154.457               | 33.70                 | 8.55            | 34.24                  | 78.04          | 86.05                   | ---             | ---         | Peak     |

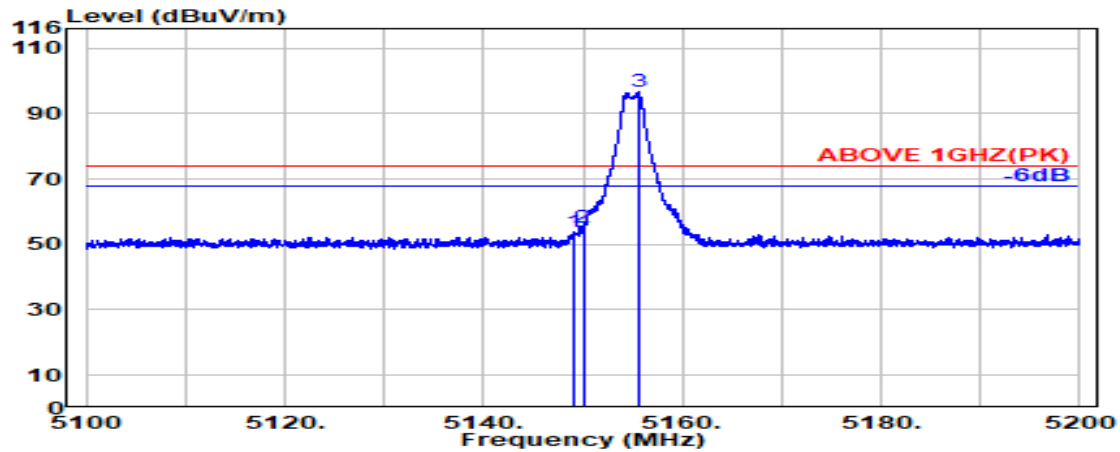


### Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|----------------|-------------------------|-----------------|-------------|----------|
| 5149.686                 | 33.70                 | 8.54            | 34.24                  | 35.60          | 43.60                   | 54.00           | 10.40       | Average  |
| 5150.000                 | 33.70                 | 8.54            | 34.24                  | 36.65          | 44.65                   | 54.00           | 9.35        | Average  |
| @ 5155.029               | 33.70                 | 8.55            | 34.24                  | 75.58          | 83.59                   | ---             | ---         | Average  |

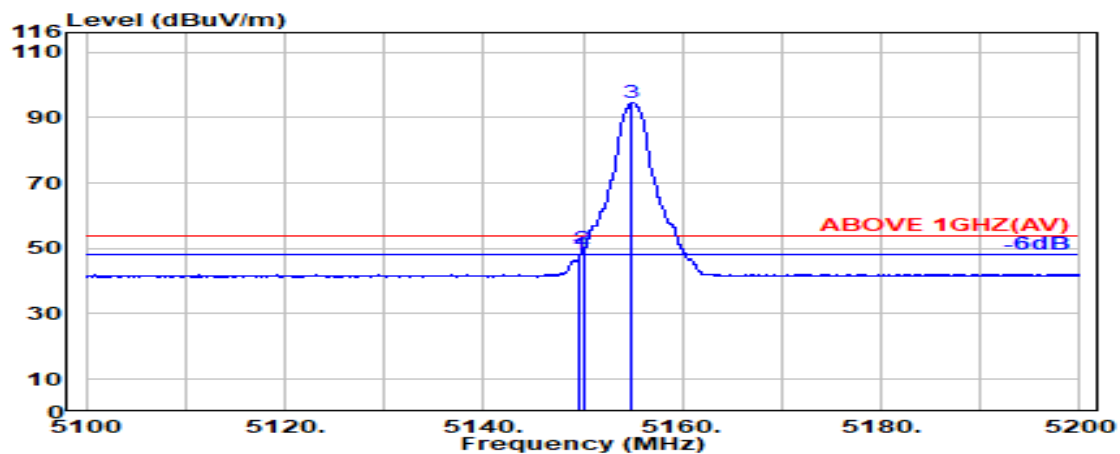
Remark: The “@” means fundamental frequency, it is ignored in this section.

|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #1    | Frequency  | TX 5155MHz |



#### Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Reading (dBμV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|----------------|-------------------------|-----------------|-------------|----------|
| 5149.200                 | 33.70                 | 8.54            | 34.24                  | 45.87          | 53.87                   | 74.00           | 20.13       | Peak     |
| 5150.000                 | 33.70                 | 8.54            | 34.24                  | 47.03          | 55.04                   | 74.00           | 18.96       | Peak     |
| @ 5155.571               | 33.70                 | 8.55            | 34.24                  | 88.65          | 96.66                   | ---             | ---         | Peak     |



#### Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Reading (dBμV) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|----------------|-------------------------|-----------------|-------------|----------|
| 5149.686                 | 33.70                 | 8.54            | 34.24                  | 39.99          | 48.00                   | 54.00           | 6.00        | Average  |
| 5150.000                 | 33.70                 | 8.54            | 34.24                  | 41.82          | 49.82                   | 54.00           | 4.18        | Average  |
| @ 5154.971               | 33.70                 | 8.55            | 34.24                  | 86.63          | 94.64                   | ---             | ---         | Average  |

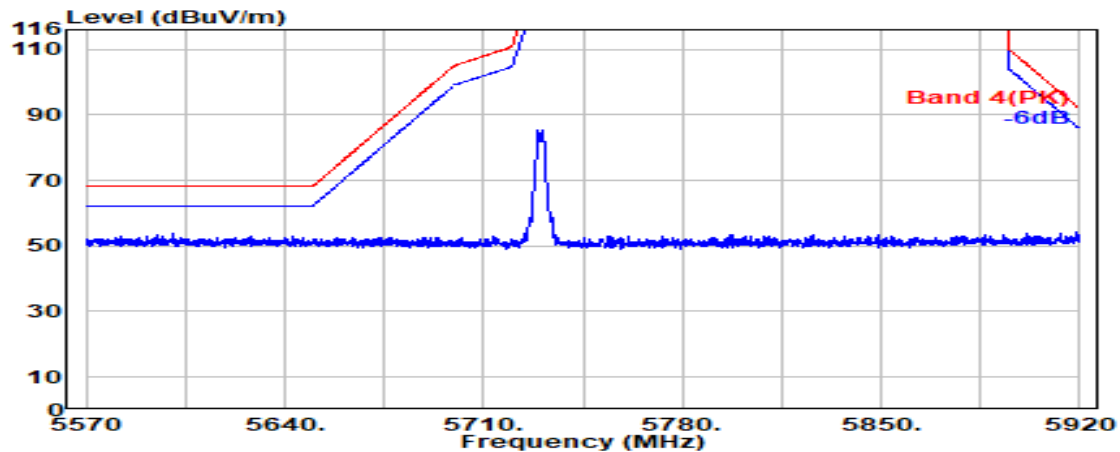
Remark: The “@” means fundamental frequency, it is ignored in this section.

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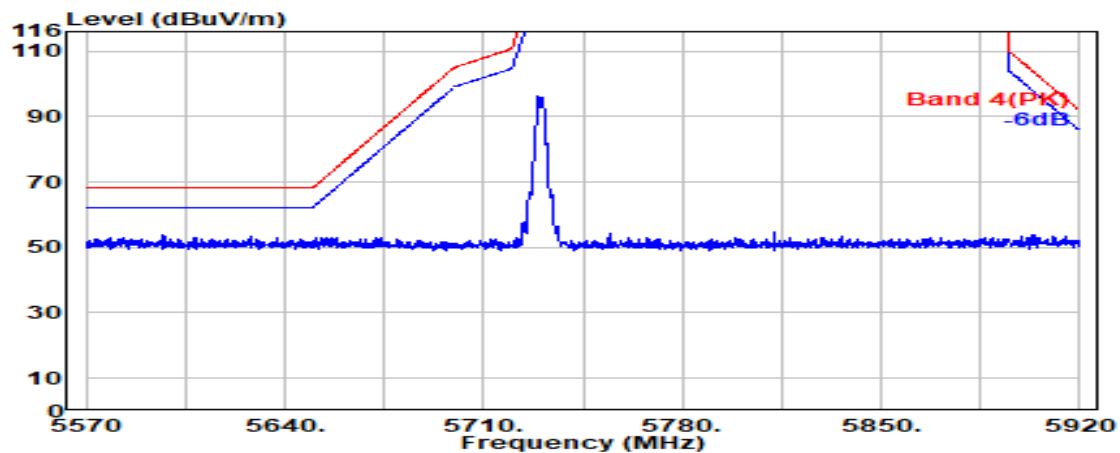
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #1    | Frequency  | TX 5730MHz |

Antenna at Horizontal Polarization



Antenna at Vertical Polarization

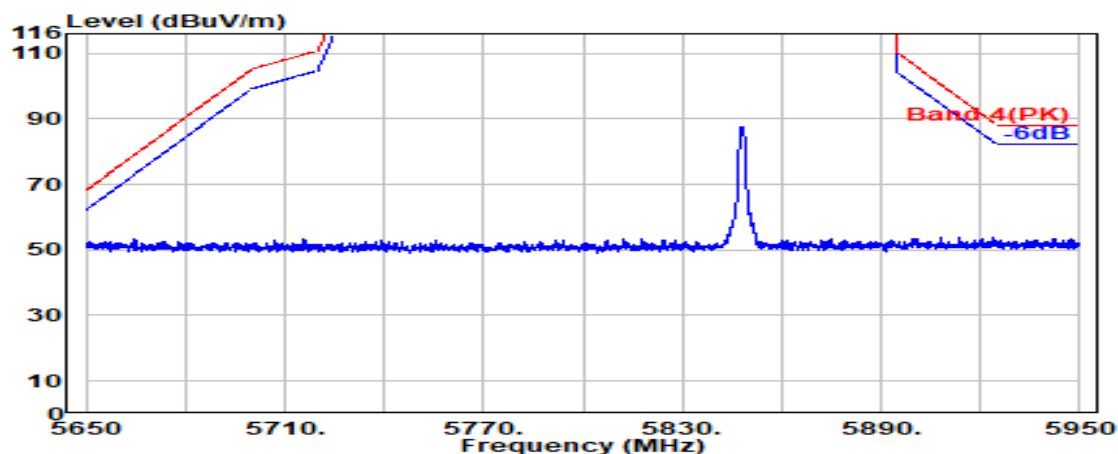


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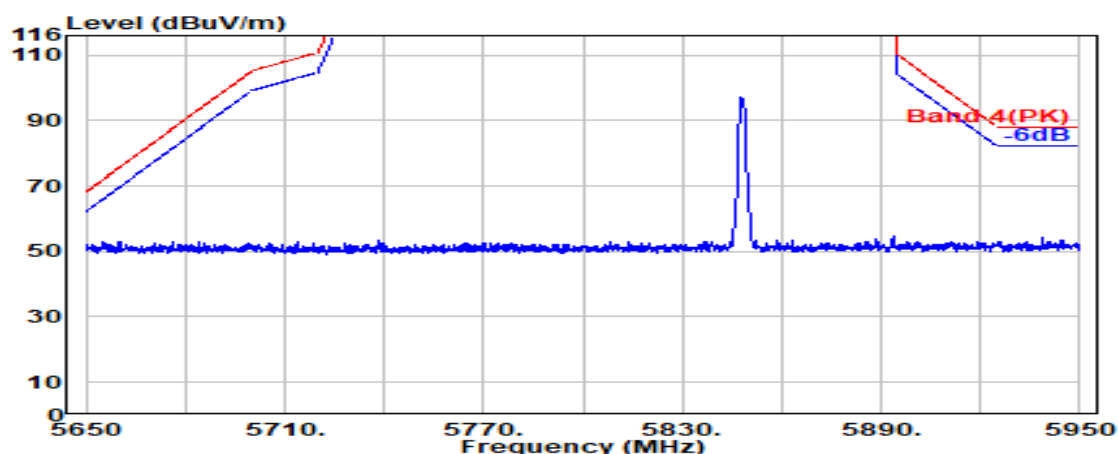
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #1    | Frequency  | TX 5848MHz |

Antenna at Horizontal Polarization



Antenna at Vertical Polarization

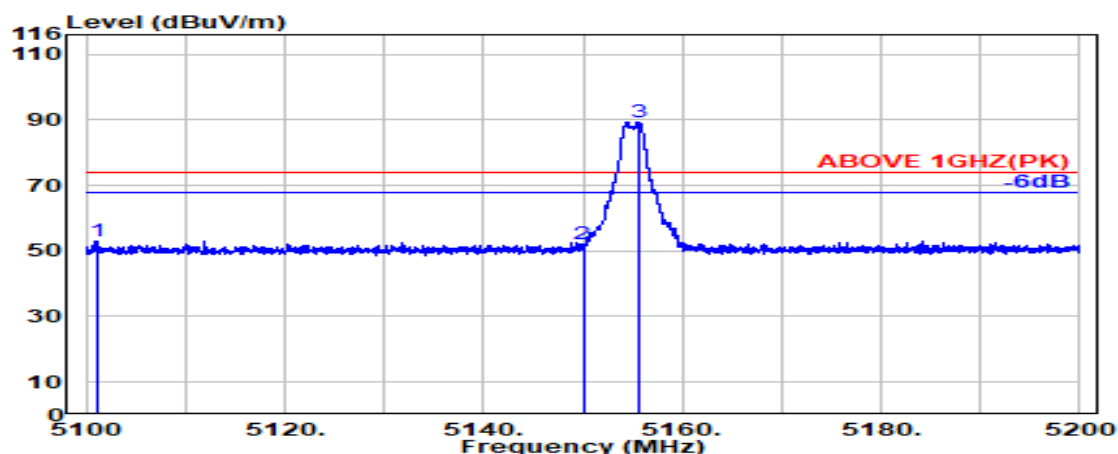


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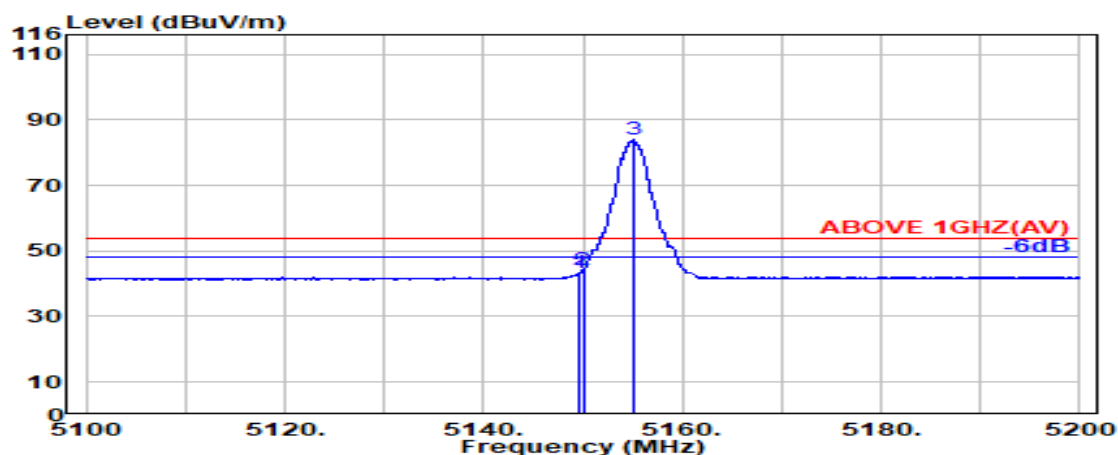
## ● Antenna #2

|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #2    | Frequency  | TX 5155MHz |



## Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|----------------|-------------------------|-----------------|-------------|----------|
| 5101.029                 | 33.70                 | 8.51            | 34.26                  | 45.21          | 53.16                   | 74.00           | 20.84       | Peak     |
| 5150.000                 | 33.70                 | 8.54            | 34.24                  | 43.88          | 51.88                   | 74.00           | 22.12       | Peak     |
| @ 5155.657               | 33.70                 | 8.55            | 34.24                  | 81.42          | 89.42                   | ---             | ---         | Peak     |



## Antenna at Horizontal Polarization

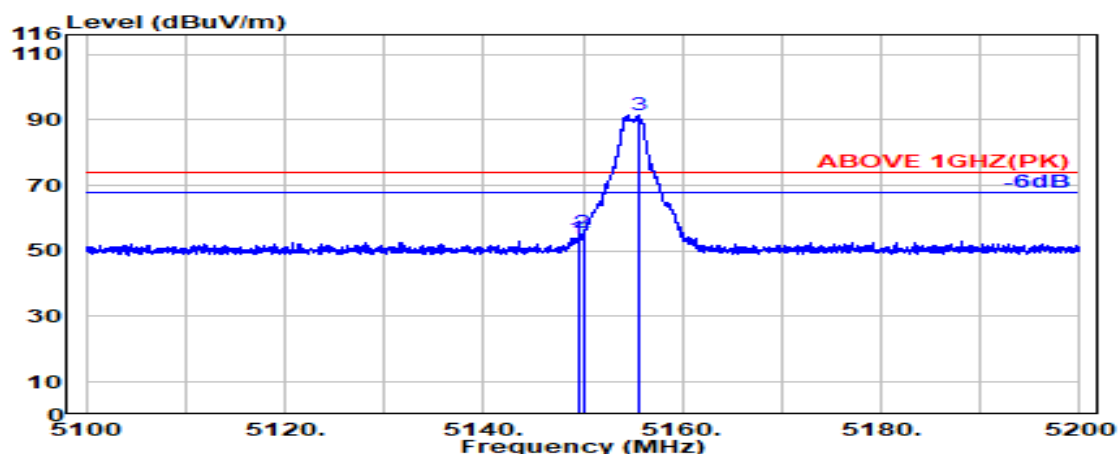
| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|----------------|-------------------------|-----------------|-------------|----------|
| 5149.543                 | 33.70                 | 8.54            | 34.24                  | 35.26          | 43.26                   | 54.00           | 10.74       | Average  |
| 5150.000                 | 33.70                 | 8.54            | 34.24                  | 36.16          | 44.16                   | 54.00           | 9.84        | Average  |
| @ 5155.086               | 33.70                 | 8.55            | 34.24                  | 75.84          | 83.85                   | ---             | ---         | Average  |

Remark: The “@” means fundamental frequency, it is ignored in this section.

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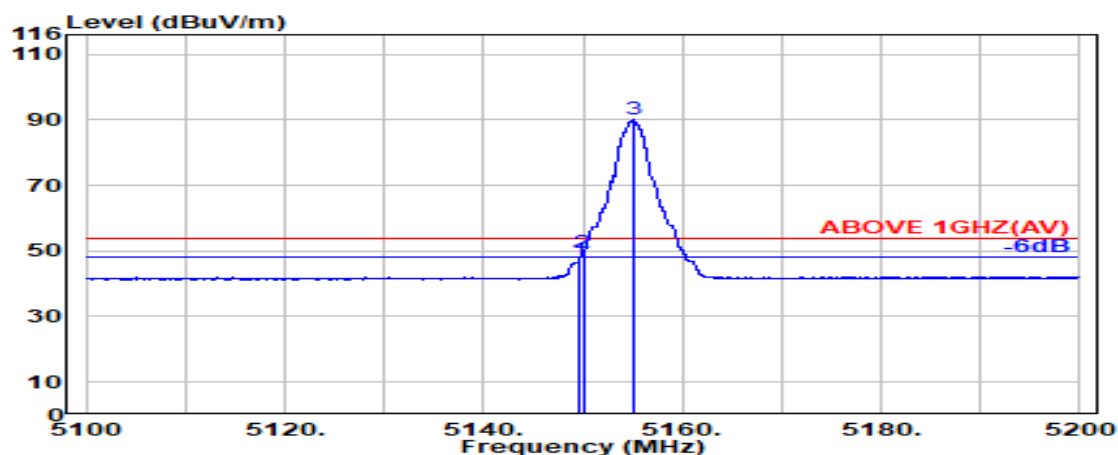
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Fax: +886 2 26099303

|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #2    | Frequency  | TX 5155MHz |



Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|----------------|-------------------------|-----------------|-------------|----------|
| 5149.486                 | 33.70                 | 8.54            | 34.24                  | 46.02          | 54.03                   | 74.00           | 19.97       | Peak     |
| 5150.000                 | 33.70                 | 8.54            | 34.24                  | 47.59          | 55.60                   | 74.00           | 18.40       | Peak     |
| @ 5155.600               | 33.70                 | 8.55            | 34.24                  | 83.48          | 91.49                   | ---             | ---         | Peak     |



Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Reading (dBμV) | Emission Level (dBμV/m) | Limits (dBμV/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|------------------------|----------------|-------------------------|-----------------|-------------|----------|
| 5149.600                 | 33.70                 | 8.54            | 34.24                  | 39.17          | 47.17                   | 54.00           | 6.83        | Average  |
| 5150.000                 | 33.70                 | 8.54            | 34.24                  | 41.28          | 49.28                   | 54.00           | 4.72        | Average  |
| @ 5155.029               | 33.70                 | 8.55            | 34.24                  | 81.97          | 89.98                   | ---             | ---         | Average  |

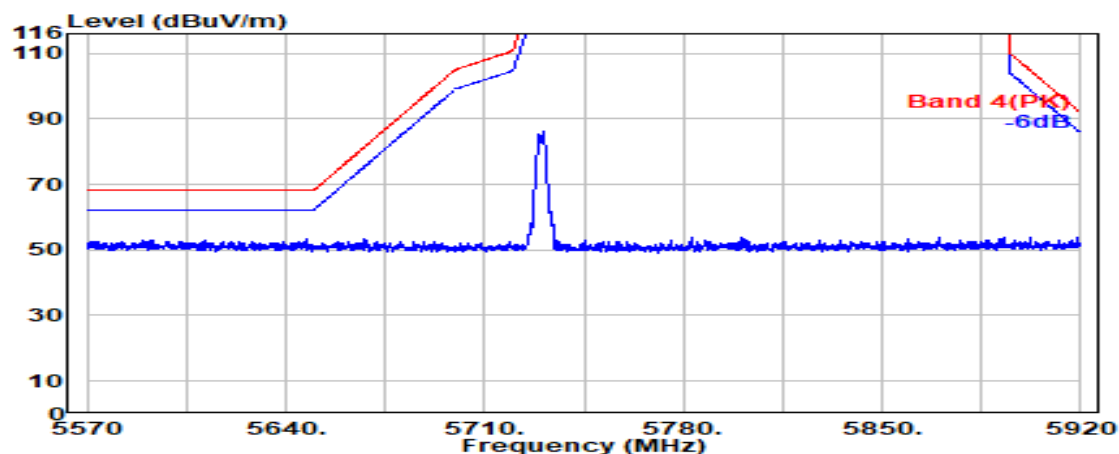
Remark: The “@” means fundamental frequency, it is ignored in this section.

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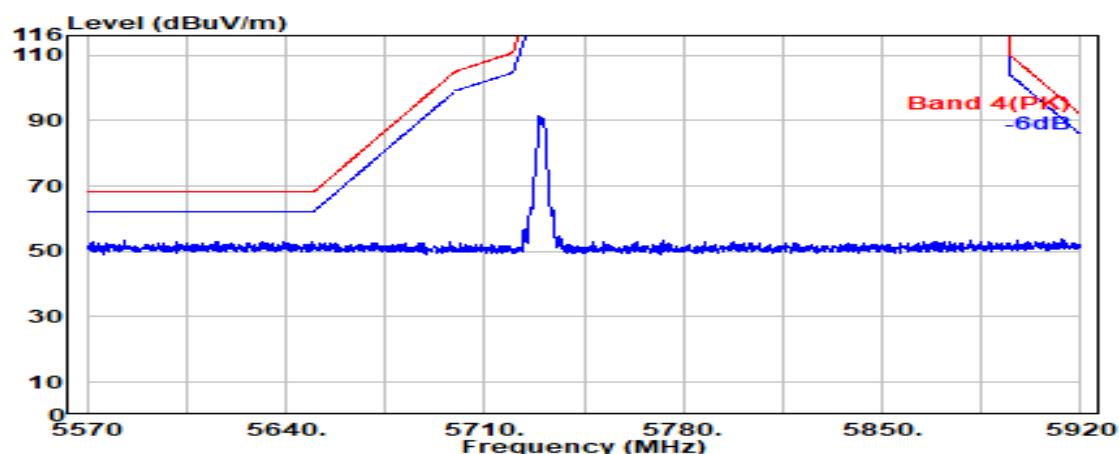
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #2    | Frequency  | TX 5730MHz |

Antenna at Horizontal Polarization



Antenna at Vertical Polarization

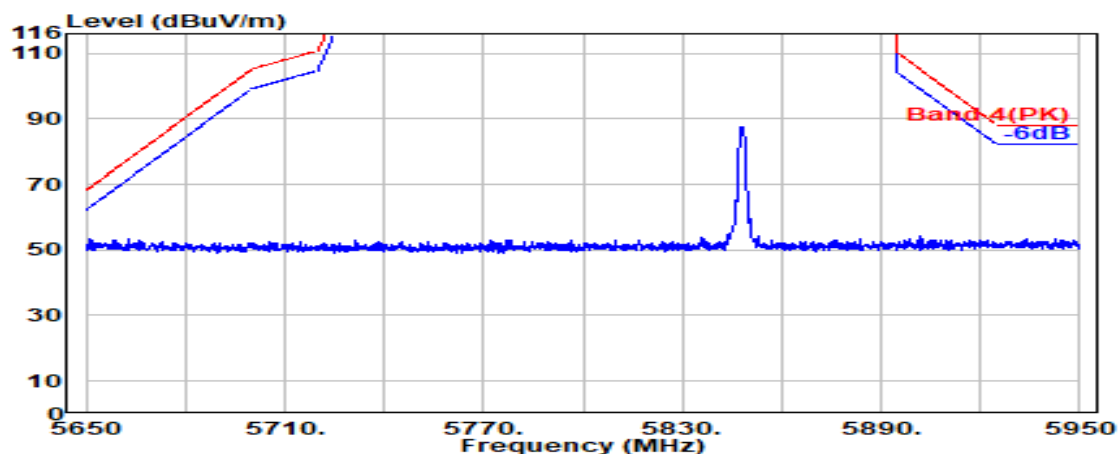


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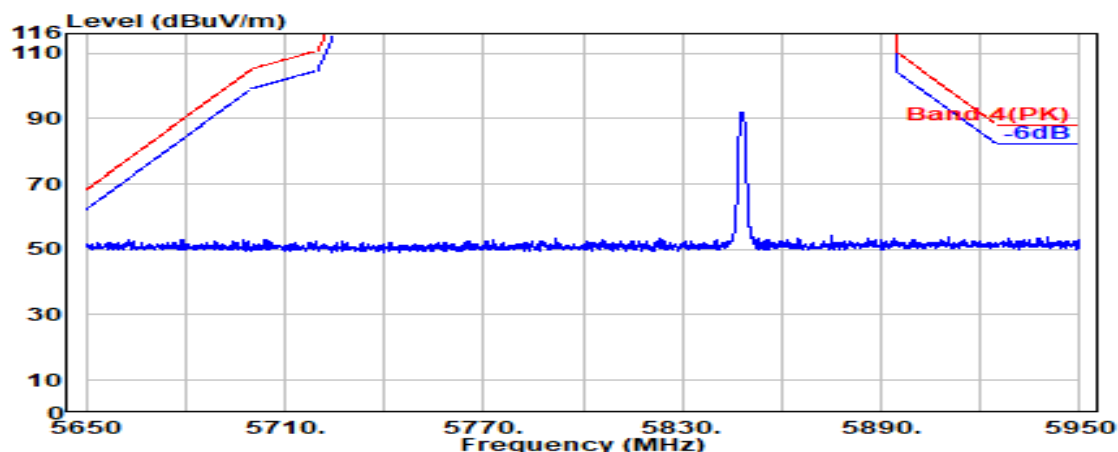
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Fax: +886 2 26099303

|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #2    | Frequency  | TX 5848MHz |

Antenna at Horizontal Polarization



Antenna at Vertical Polarization



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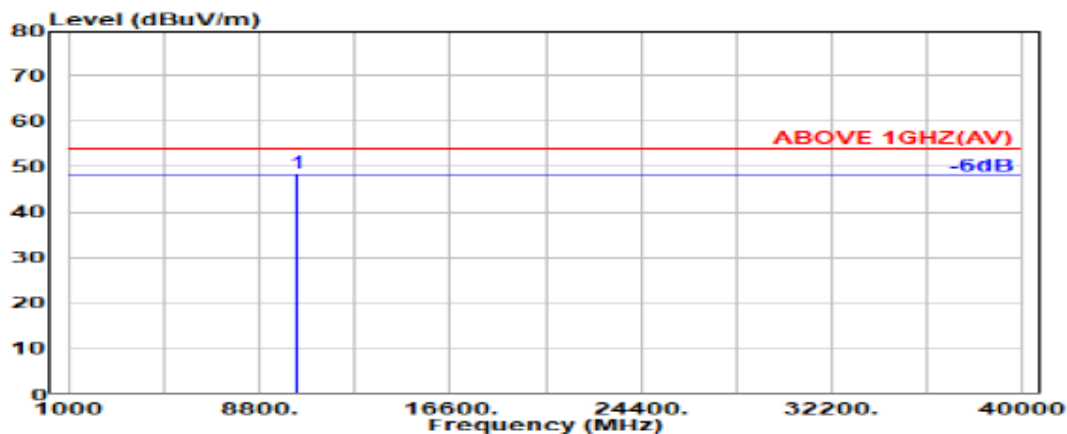
## A.2.2 Emissions outside the frequency band

### ● Antenna #1

|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #1    | Frequency  | TX 5155MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5155MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 10310.000      | 38.10                       | 11.84                 | 34.79                  | 33.42             | 48.57                         | 54.00              | 5.43           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB) + Reading(dBμV).

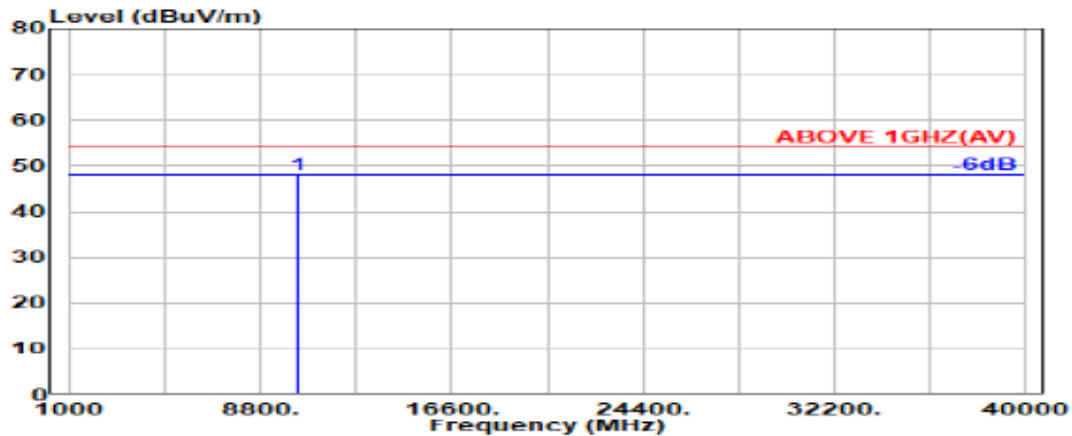
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #1    | Frequency  | TX 5155MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5155MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 10310.000      | 38.10                       | 11.84                 | 34.79                  | 32.77             | 47.92                         | 54.00              | 6.08           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

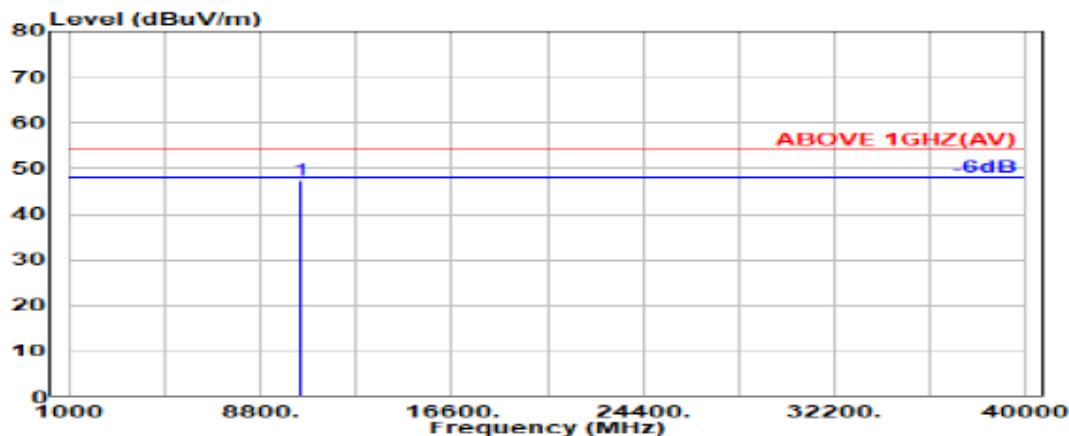
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #1    | Frequency  | TX 5195MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5195MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 10390.000      | 38.10                       | 11.95                 | 34.72                  | 32.04             | 47.37                         | 54.00              | 6.63           | Peak   |

Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBuV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #1    | Frequency  | TX 5195MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical  
Environment : 20\*C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5195MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 10390.000      | 38.10                       | 11.95                 | 34.72                  | 32.19             | 47.52                         | 54.00              | 6.48           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

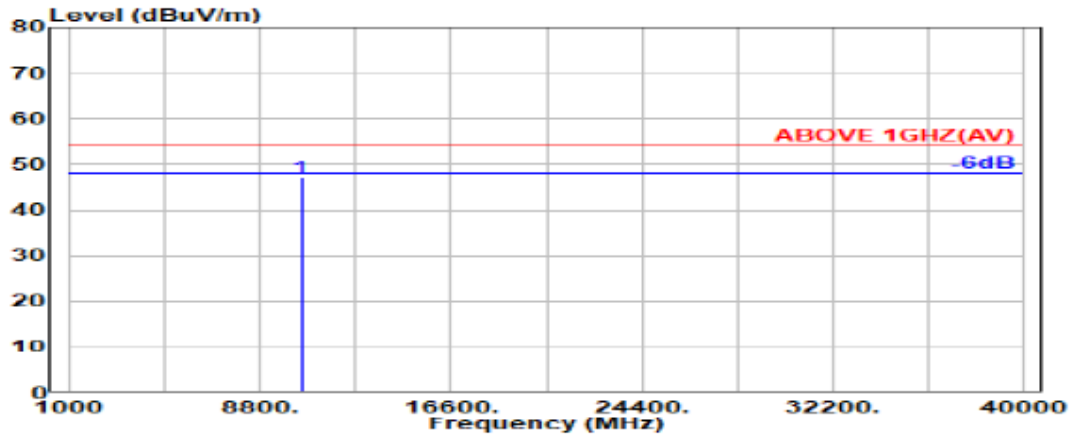
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #1    | Frequency  | TX 5245MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5245MHz(GFSK)  
: ANT1  
:

| Item   | Freq.     | Antenna | Cable | Preamp | Reading | Emission | Limits   | Margin | Remark |
|--------|-----------|---------|-------|--------|---------|----------|----------|--------|--------|
| (Mark) | (MHz)     | Factor  | Loss  | Gain   | (dBuV)  | Level    | (dBuV/m) | (dB)   |        |
|        |           | (dB/m)  | (dB)  | (dB)   |         | (dBuV/m) |          |        |        |
| 1      | 10490.000 | 38.28   | 12.08 | 34.63  | 31.30   | 47.03    | 54.00    | 6.97   | Peak   |

Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBuV).

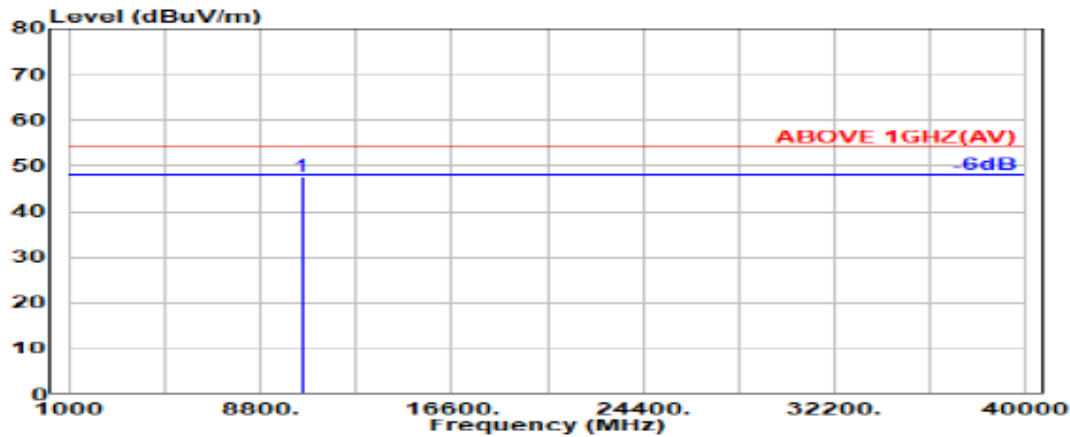
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #1    | Frequency  | TX 5245MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5245MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamplifier<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 10490.000      | 38.28                       | 12.08                 | 34.63                        | 31.86             | 47.60                         | 54.00              | 6.40           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

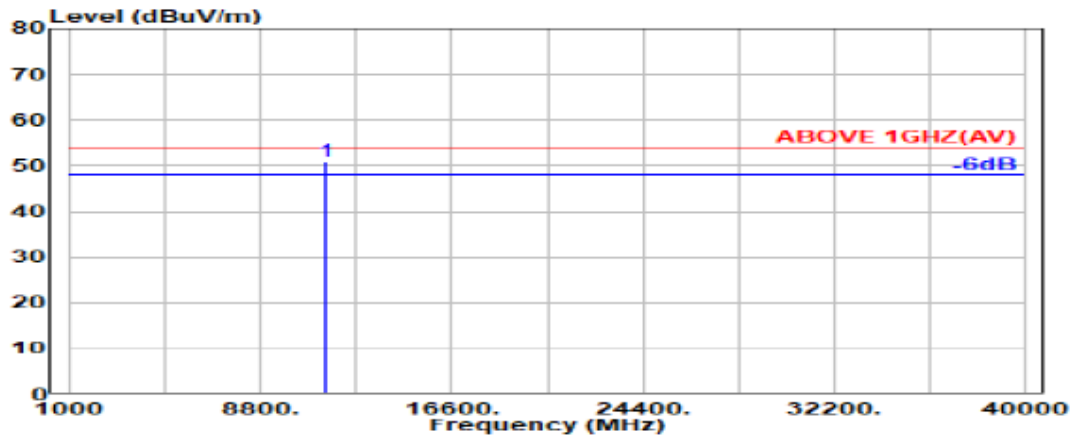
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #1    | Frequency  | TX 5730MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5730MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 11460.000      | 39.02                       | 13.28                 | 34.54                  | 33.33             | 51.09                         | 54.00              | 2.91           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

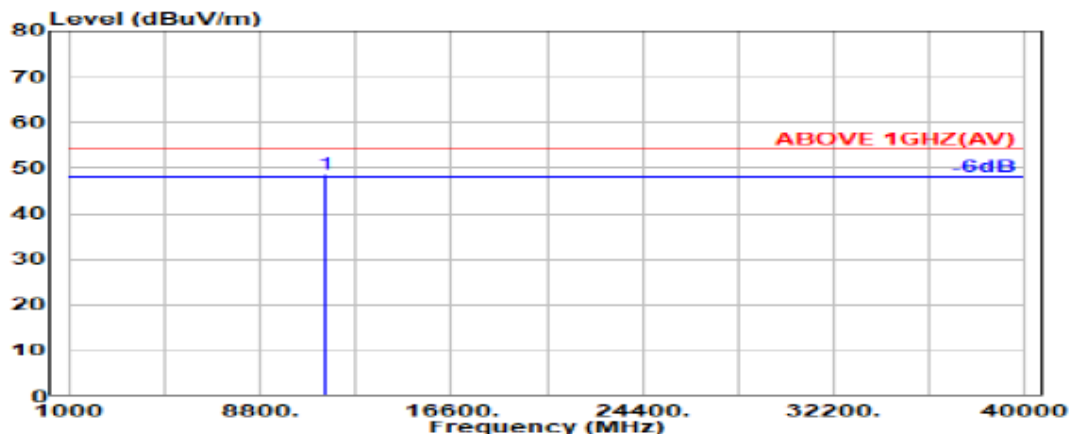
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #1    | Frequency  | TX 5730MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5730MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 11460.000      | 39.02                       | 13.28                 | 34.54                  | 30.95             | 48.71                         | 54.00              | 5.29           | Peak   |

Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBuV).

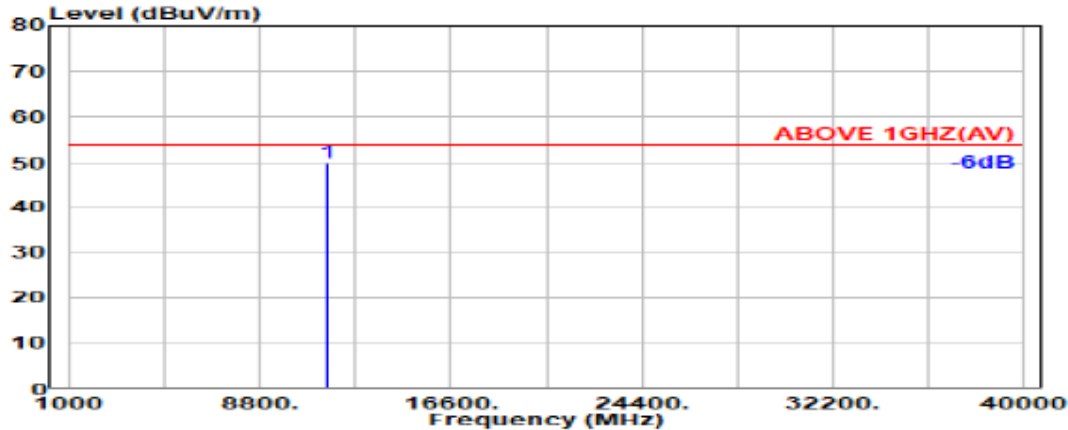
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #1    | Frequency  | TX 5790MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal  
Environment : 20\*C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5790MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 11580.000      | 39.18                       | 13.41                 | 34.55                  | 32.00             | 50.05                         | 54.00              | 3.95           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

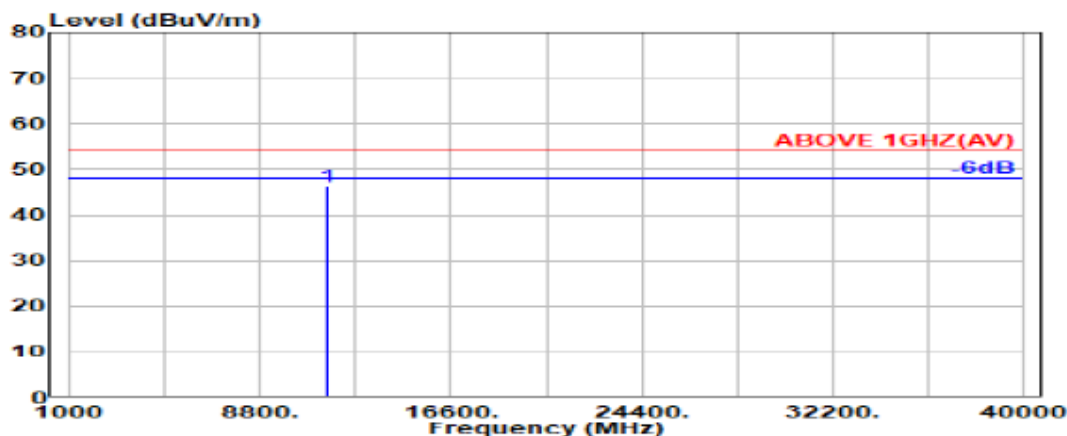
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #1    | Frequency  | TX 5790MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5790MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 11580.000      | 39.18                       | 13.41                 | 34.55                  | 28.06             | 46.10                         | 54.00              | 7.90           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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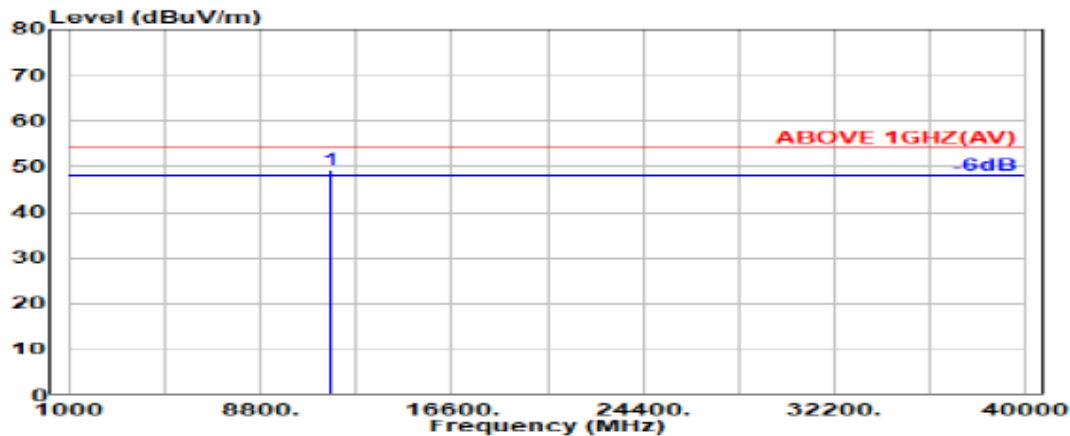
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #1    | Frequency  | TX 5848MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5848MHz(GFSK)  
: ANT1  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 11696.000      | 39.39                       | 13.54                 | 34.56                  | 30.95             | 49.33                         | 54.00              | 4.67           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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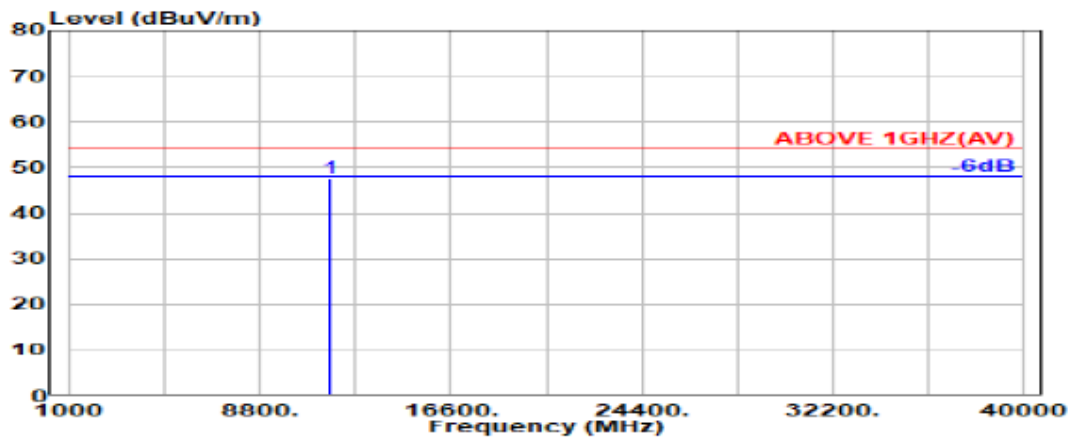
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #1    | Frequency  | TX 5848MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5848MHz(GFSK)  
: ANT1  
:

| Item   | Freq.     | Antenna | Cable | Preamp | Reading | Emission | Limits   | Margin | Remark |
|--------|-----------|---------|-------|--------|---------|----------|----------|--------|--------|
| (Mark) | (MHz)     | Factor  | Loss  | Gain   | (dBμV)  | Level    | (dBμV/m) | (dB)   |        |
|        |           | (dB/m)  | (dB)  | (dB)   |         | (dBμV/m) |          |        |        |
| 1      | 11696.000 | 39.39   | 13.54 | 34.56  | 29.39   | 47.77    | 54.00    | 6.23   | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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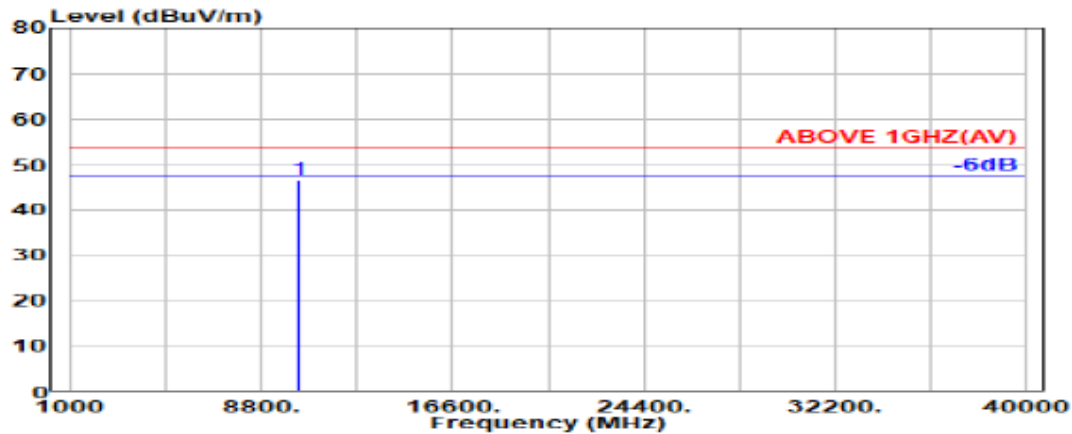
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● Antenna #2

|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #2    | Frequency  | TX 5155MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5155MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 10310.000      | 38.10                       | 11.84                 | 34.79                  | 32.00             | 47.15                         | 54.00              | 6.85           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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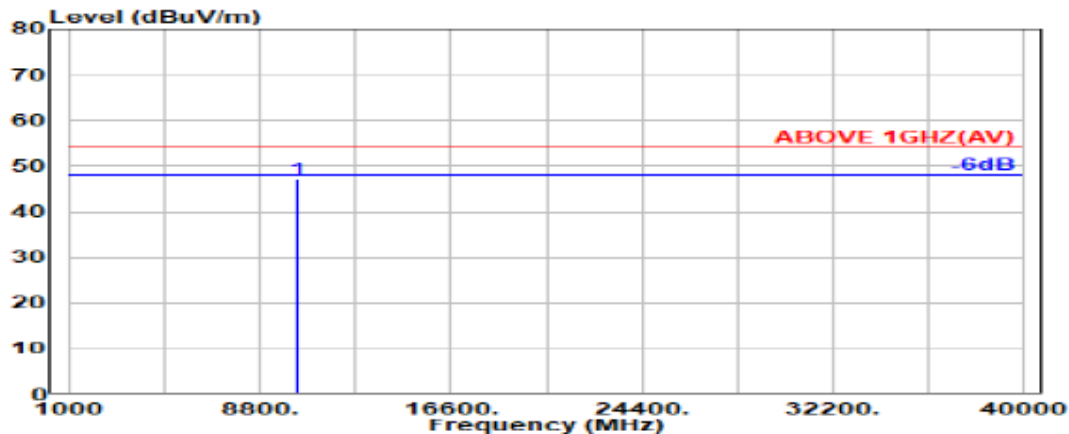
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #2    | Frequency  | TX 5155MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5155MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 10310.000      | 38.10                       | 11.84                 | 34.79                  | 31.96             | 47.11                         | 54.00              | 6.89           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

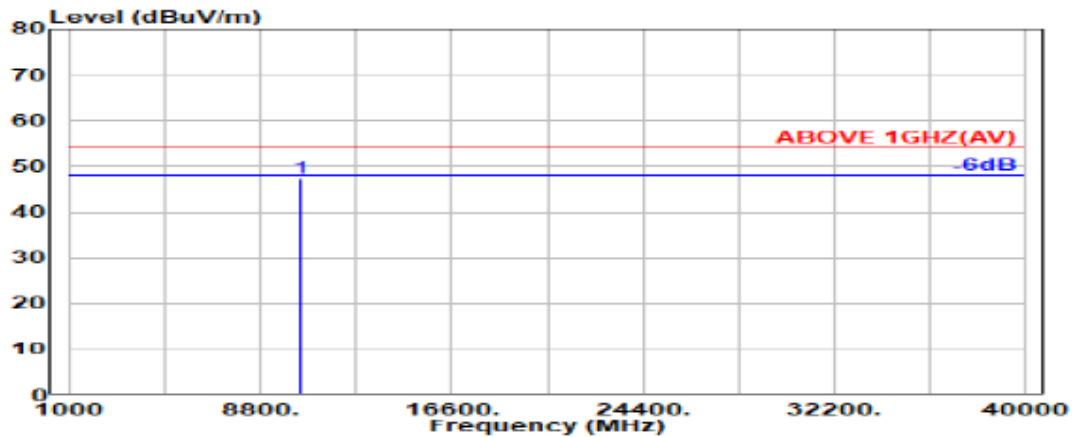
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Fax: +886 2 26099303

|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #2    | Frequency  | TX 5195MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5195MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 10390.000      | 38.10                       | 11.95                 | 34.72                  | 32.01             | 47.34                         | 54.00              | 6.66           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

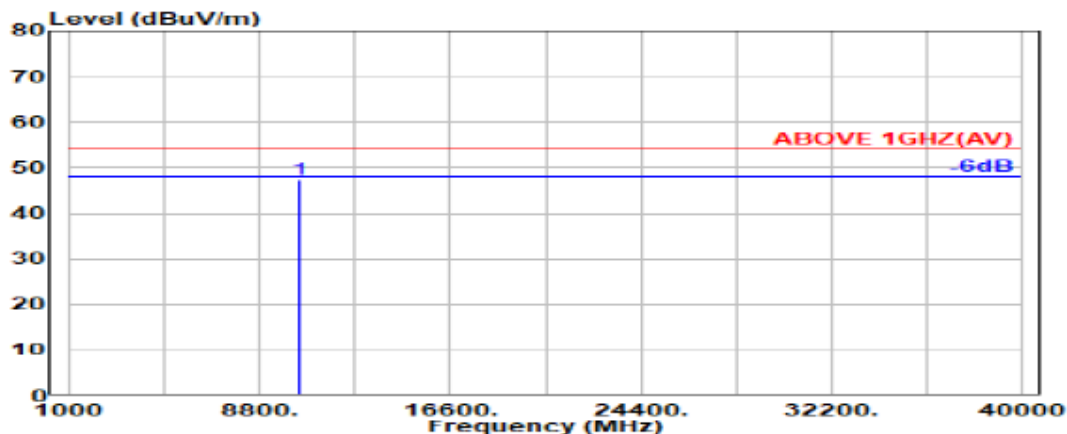
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #2    | Frequency  | TX 5195MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5195MHz(GFSK)  
: ANT2  
:

| Item   | Freq.     | Antenna | Cable | Preamp | Reading | Emission | Limits   | Margin | Remark |
|--------|-----------|---------|-------|--------|---------|----------|----------|--------|--------|
| (Mark) | (MHz)     | Factor  | Loss  | Gain   | (dBμV)  | Level    | (dBμV/m) | (dB)   |        |
|        |           | (dB/m)  | (dB)  | (dB)   |         | (dBμV/m) |          |        |        |
| 1      | 10390.000 | 38.10   | 11.95 | 34.72  | 31.98   | 47.31    | 54.00    | 6.69   | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

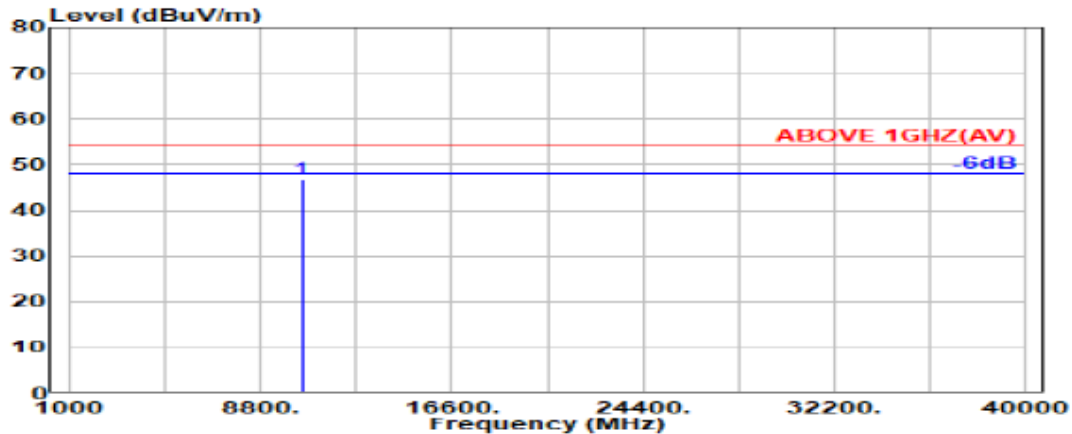
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #2    | Frequency  | TX 5245MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5245MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 10490.000      | 38.28                       | 12.08                 | 34.63                  | 31.05             | 46.78                         | 54.00              | 7.22           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

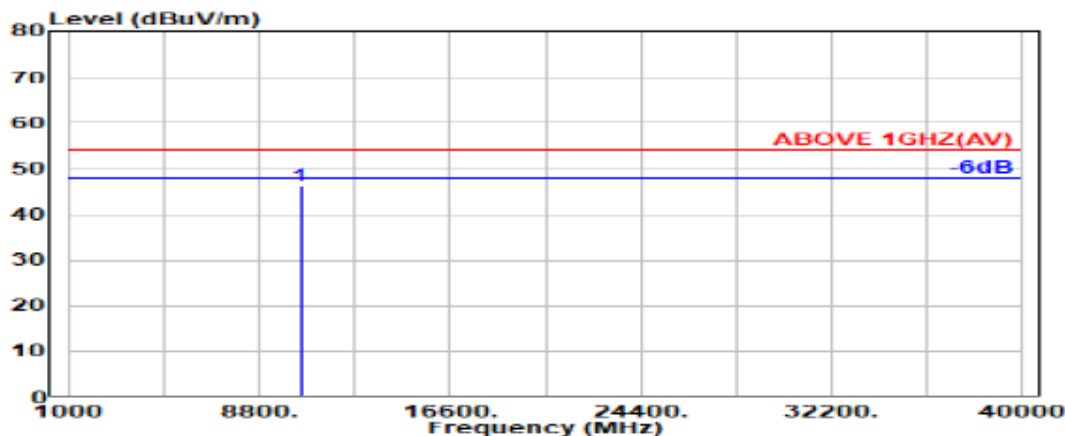
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 1          |
| Antenna | Antenna #2    | Frequency  | TX 5245MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5245MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 10490.000      | 38.28                       | 12.08                 | 34.63                  | 30.48             | 46.22                         | 54.00              | 7.78           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #2    | Frequency  | TX 5730MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5730MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 11460.000      | 39.02                       | 13.28                 | 34.54                  | 29.53             | 47.29                         | 54.00              | 6.71           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #2    | Frequency  | TX 5730MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5730MHz(GFSK)  
: ANT2  
:

| Item   | Freq.     | Antenna | Cable | Preamp | Reading | Emission | Limits   | Margin | Remark |
|--------|-----------|---------|-------|--------|---------|----------|----------|--------|--------|
| (Mark) | (MHz)     | Factor  | Loss  | Gain   | (dBμV)  | Level    | (dBμV/m) | (dB)   |        |
|        |           | (dB/m)  | (dB)  | (dB)   |         | (dBμV/m) |          |        |        |
| 1      | 11460.000 | 39.02   | 13.28 | 34.54  | 30.68   | 48.44    | 54.00    | 5.56   | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

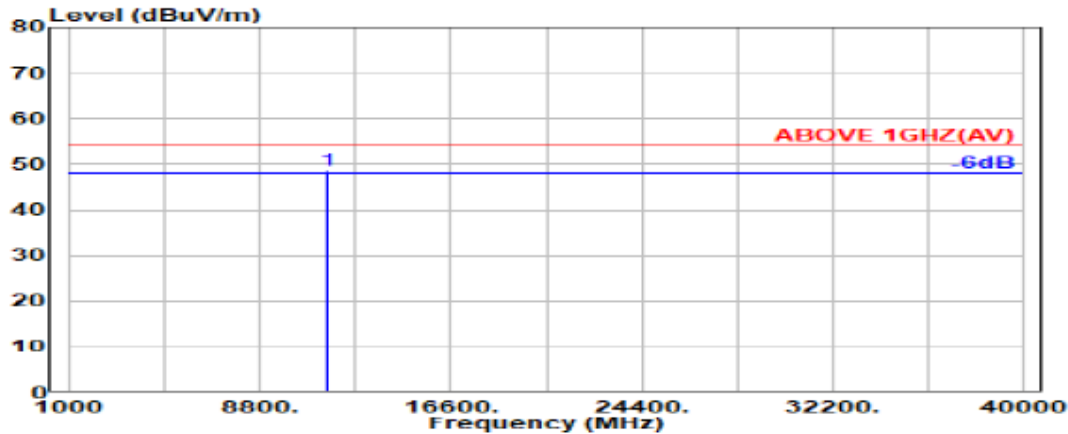
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #2    | Frequency  | TX 5790MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5790MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 11580.000      | 39.18                       | 13.41                 | 34.55                  | 30.50             | 48.54                         | 54.00              | 5.46           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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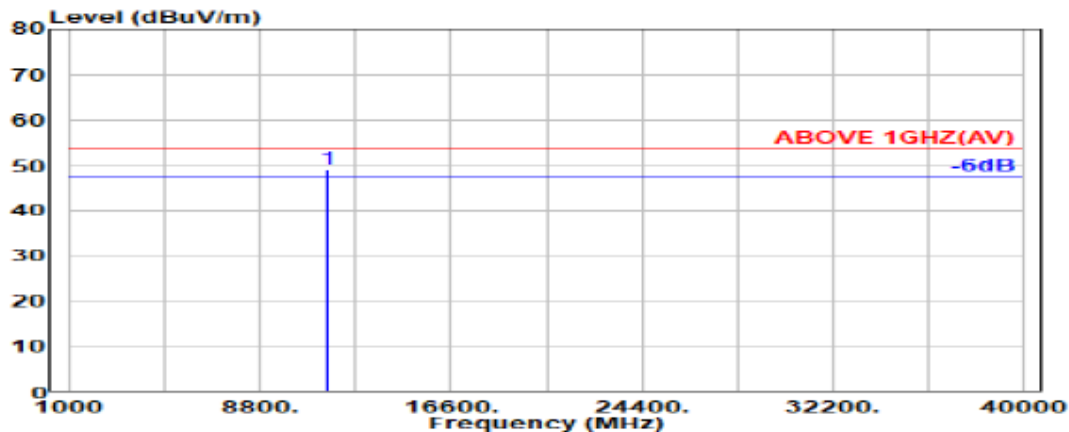
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #2    | Frequency  | TX 5790MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5790MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBμV) | Emission<br>Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 11580.000      | 39.18                       | 13.41                 | 34.55                  | 31.35             | 49.40                         | 54.00              | 4.60           | Peak   |

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBμV).

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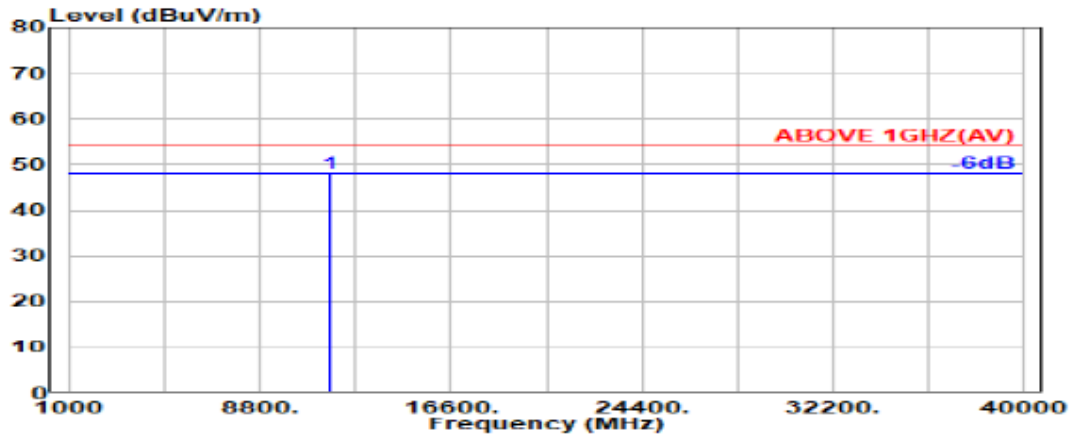
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**Fax: +886 2 26099303**

|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #2    | Frequency  | TX 5848MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5848MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Gain<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 11696.000      | 39.39                       | 13.54                 | 34.56                  | 29.75             | 48.12                         | 54.00              | 5.88           | Peak   |

Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBuV).

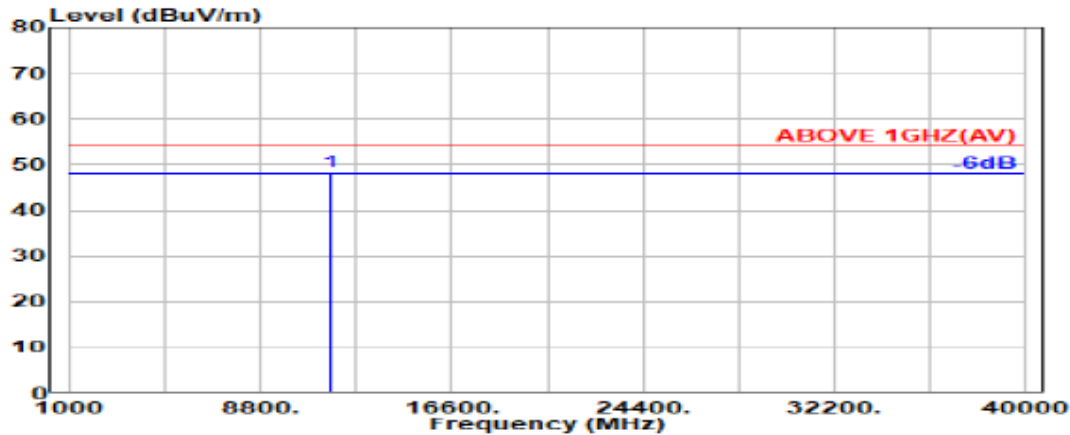
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|         |               |            |            |
|---------|---------------|------------|------------|
| Mode    | GFSK (2 Mbps) | U-NII Band | 3          |
| Antenna | Antenna #2    | Frequency  | TX 5848MHz |

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber  
Instrument 1 : Spectrum N9010B(198)  
Instrument 2 : 3115 (775)|RE-14|8449B (678)  
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|  
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical  
Environment : 20°C / 48% Test Rating : DC 3.3V  
EUT Model : WL1BKT22 Engineer : Hua  
Test Memo : Tx 5848MHz(GFSK)  
: ANT2  
:

| Item<br>(Mark) | Freq.<br>(MHz) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamplifier<br>Gain<br>(dB) | Reading<br>(dBUV) | Emission<br>Level<br>(dBUV/m) | Limits<br>(dBUV/m) | Margin<br>(dB) | Remark |
|----------------|----------------|-----------------------------|-----------------------|------------------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1              | 11696.000      | 39.39                       | 13.54                 | 34.56                        | 29.89             | 48.27                         | 54.00              | 5.73           | Peak   |

Remark: 1. Emission Level(dBUV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)  
+ Reading(dBUV).

### A.2.3 Emissions in Non-restricted Frequency Bands

Pursuant to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 that emission levels below the 15.209 general radiated emissions limits is not required.

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## A.3 MAXIMUM OUTPUT POWER

|              |            |            |          |
|--------------|------------|------------|----------|
| Test Date    | 2024/11/14 | Temp./Hum. | 24°C/55% |
| Test Voltage | DC 3.3V    | Tested By  | Hua Wu   |

### A.3.1 Average Output Power

#### ● Antenna #1

| Mode          | U-NII Band | Centre Frequency (MHz) | Average Output Power (dBm) | Duty Cycle Factor 10log(1/X) | Average Output Power |               | Limit             |
|---------------|------------|------------------------|----------------------------|------------------------------|----------------------|---------------|-------------------|
|               |            |                        |                            |                              | (dBm)                | (W)           |                   |
| GFSK (2 Mbps) | 1          | 5155                   | 0.97                       | 3.565                        | <b>4.54</b>          | <b>0.0028</b> | < 250 mW (24 dBm) |
|               |            | 5195                   | 0.52                       | 3.565                        | 4.09                 | 0.0026        |                   |
|               |            | 5245                   | 0.07                       | 3.565                        | 3.64                 | 0.0023        |                   |
|               | 3          | 5730                   | 0.75                       | 3.565                        | 4.32                 | 0.0027        | < 1 W (30 dBm)    |
|               |            | 5790                   | 1.63                       | 3.565                        | 5.20                 | 0.0033        |                   |
|               |            | 5848                   | 2.25                       | 3.565                        | <b>5.82</b>          | <b>0.0038</b> |                   |

Note: The results have been included cable loss.

#### ● Antenna #2

| Mode          | U-NII Band | Centre Frequency (MHz) | Average Output Power (dBm) | Duty Cycle Factor 10log(1/X) | Average Output Power |               | Limit             |
|---------------|------------|------------------------|----------------------------|------------------------------|----------------------|---------------|-------------------|
|               |            |                        |                            |                              | (dBm)                | (W)           |                   |
| GFSK (2 Mbps) | 1          | 5155                   | 2.35                       | 3.565                        | <b>5.92</b>          | <b>0.0039</b> | < 250 mW (24 dBm) |
|               |            | 5195                   | 1.99                       | 3.565                        | 5.56                 | 0.0036        |                   |
|               |            | 5245                   | 1.58                       | 3.565                        | 5.15                 | 0.0033        |                   |
|               | 3          | 5730                   | 0.72                       | 3.565                        | 4.29                 | 0.0027        | < 1 W (30 dBm)    |
|               |            | 5790                   | 1.07                       | 3.565                        | 4.64                 | 0.0029        |                   |
|               |            | 5848                   | 1.39                       | 3.565                        | <b>4.96</b>          | <b>0.0031</b> |                   |

Note: The results have been included cable loss.

### A.3.2 Original Power For reference

#### ● Antenna #1

| Mode          | U-NII Band | Centre Frequency (MHz) | Average Output Power (dBm) | Duty Cycle Factor 10log(1/X) | Average Output Power |               | Limit             |
|---------------|------------|------------------------|----------------------------|------------------------------|----------------------|---------------|-------------------|
|               |            |                        |                            |                              | (dBm)                | (W)           |                   |
| GFSK (2 Mbps) | 1          | 5155                   | 6.81                       | N/A                          | 6.81                 | 0.0048        | < 250 mW (24 dBm) |
|               |            | 5190                   | 7.18                       | N/A                          | <b>7.18</b>          | 0.0052        |                   |
|               |            | 5228                   | 6.85                       | N/A                          | 6.85                 | <b>0.0048</b> |                   |
|               | 3          | 5731                   | 7.04                       | N/A                          | 7.04                 | <b>0.0051</b> | < 1 W (30 dBm)    |
|               |            | 5779                   | 7.05                       | N/A                          | 7.05                 | 0.0051        |                   |
|               |            | 5828                   | 6.56                       | N/A                          | <b>6.56</b>          | 0.0045        |                   |

Note: The results have been included cable loss.

#### ● Antenna #2

| Mode          | U-NII Band | Centre Frequency (MHz) | Average Output Power (dBm) | Duty Cycle Factor 10log(1/X) | Average Output Power |               | Limit             |
|---------------|------------|------------------------|----------------------------|------------------------------|----------------------|---------------|-------------------|
|               |            |                        |                            |                              | (dBm)                | (W)           |                   |
| GFSK (2 Mbps) | 1          | 5155                   | 7.35                       | N/A                          | 7.35                 | 0.0054        | < 250 mW (24 dBm) |
|               |            | 5190                   | 7.65                       | N/A                          | <b>7.65</b>          | <b>0.0058</b> |                   |
|               |            | 5228                   | 6.92                       | N/A                          | 6.92                 | 0.0049        |                   |
|               | 3          | 5731                   | 7.39                       | N/A                          | <b>7.39</b>          | <b>0.0055</b> | < 1 W (30 dBm)    |
|               |            | 5779                   | 6.83                       | N/A                          | 6.83                 | 0.0048        |                   |
|               |            | 5828                   | 6.34                       | N/A                          | 6.34                 | 0.0043        |                   |

Note: The results have been included cable loss.