

# CE Test Report

**Equipment** : Bluetooth 4.2 module (BLE only)  
**Model No.** : BL652-SA, BL652-SC  
(Refer to item 1.1.1 for more details)  
**Brand Name** : Laird  
**Applicant** : Laird Technologies  
**Address** : W66N220 Commerce Court, Cedarburg,  
Wisconsin 53012, USA  
**Standard** : EN 300 328 V2.1.1 (2016-11)  
**Received Date** : May 14, 2018  
**Tested Date** : Jul. 18 ~ Jul. 20, 2016 (for original test)  
May 28 ~ Jun. 29 , 2018 (for new test)

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

  
James Fan / Assistant Manager

Approved by:

  
Gary Chang / Manager



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## Release Record

| Report No.    | Version | Description   | Issued Date   |
|---------------|---------|---------------|---------------|
| ER662202-06AE | Rev. 01 | Initial issue | Jul. 27, 2018 |

## Summary of Test Results

| Ref. Std. Clause | Test Items                                               | Measured                                                                      | Result |
|------------------|----------------------------------------------------------|-------------------------------------------------------------------------------|--------|
| 4.3.2.2          | RF Output Power                                          | 7.71 dBm                                                                      | Pass   |
| 4.3.2.3          | Power Spectral Density                                   | Meet the requirement of limit.                                                | Pass   |
| 4.3.2.4          | Duty Cycle, Tx-sequence, Tx-gap                          | Only for non-adaptive equipment                                               | N/A    |
| 4.3.2.5          | Medium Utilisation (MU) factor                           | Only for non-adaptive equipment                                               | N/A    |
| 4.3.2.6          | Adaptivity                                               | The RF Output power is less than 10 dBm e.i.r.p. This item is not applicable. | N/A    |
| 4.3.2.7          | Occupied Channel Bandwidth                               | Meet the requirement of limit.                                                | Pass   |
| 4.3.2.8          | Transmitter unwanted emissions in the out of band domain | Meet the requirement of limit.                                                | Pass   |
| 4.3.2.9          | Transmitter unwanted emissions in the spurious domain    | Meet the requirement of limit.                                                | Pass   |
| 4.3.2.10         | Receiver spurious emissions                              | Meet the requirement of limit.                                                | Pass   |
| 4.3.2.11         | Receiver Blocking                                        | Meet the requirement of limit.                                                | Pass   |
| 4.3.2.12         | Geo-location Capability                                  | The device has no this capability.                                            | N/A    |

# 1 General Description

## 1.1 Information

This report is issued as a supplementary report to original ICC report no. ER662202AE. The modification is updating standard and concerned with adding 4 antennas and 2 Mbps data rate by software setting.

### 1.1.1 Product Details

The following models are provided to this EUT.

| Brand Name | Model Name | Product Name                    | Description                             |
|------------|------------|---------------------------------|-----------------------------------------|
| Laird      | BL652-SA   | Bluetooth 4.2 module (BLE only) | with chip antenna                       |
|            | BL652-SC   |                                 | with MHF4 & IPEX connector type antenna |

### 1.1.2 Specification of the Equipment under Test (EUT)

| RF General Information                                  |                |                     |                |           |
|---------------------------------------------------------|----------------|---------------------|----------------|-----------|
| Frequency Range (MHz)                                   | Bluetooth Mode | Ch. Frequency (MHz) | Channel Number | Data Rate |
| 2400-2483.5                                             | V4.2 LE        | 2402-2480           | 0-39 [40]      | 1 Mbps    |
| 2400-2483.5                                             | V4.2 LE        | 2402-2480           | 0-39 [40]      | 2 Mbps    |
| Note 1: Bluetooth LE (Low energy) uses GFSK modulation. |                |                     |                |           |

### 1.1.3 Antenna Details (New antennas were marked in boldface.)

| Ant. No. | Brand          | Model                                       | Type           | Connector   | Gain (dBi)   | Remarks      |
|----------|----------------|---------------------------------------------|----------------|-------------|--------------|--------------|
| 1        | ACX            | AT3216-B2R7HAA                              | Chip           | N/A         | 0.5          | For BL652-SA |
| 2        | LSR            | FlexPIFA 001-0022                           | FlexPIFA       | MHF4        | 2            | For BL652-SC |
| 3        | LSR            | FlexNotch 001-0023                          | Flexible Notch | MHF4        | 2            |              |
| 4        | MAG. LAYERS    | EDA-8709-2G4C1-B27                          | Dipole         | MHF4        | 2            |              |
| 5        | Walsin         | RFDPA870910EMAB302                          | Dipole         | MHF4        | 2            |              |
| 6        | Walsin         | <b>RFDPA870900SBAB8G1</b>                   | <b>Dipole</b>  | <b>MHF4</b> | <b>2</b>     |              |
| 7        | YAMAMOTO METAL | <b>YAN-02-C-MHF4P-050</b>                   | <b>Chip</b>    | <b>MHF4</b> | <b>-1.76</b> |              |
| 8        | Laird          | PCA-4606-2G4C1-A33-CY<br>Laird # 0600-00056 | PCB Dipole     | IPEX        | 2.21         |              |
| 9        | Laird          | EFA2400A3S-10MH4L                           | mFlexPIFA      | MHF4        | 2            |              |

#### 1.1.4 EUT Operational Condition

|                             |                                                 |                                                 |                                                  |
|-----------------------------|-------------------------------------------------|-------------------------------------------------|--------------------------------------------------|
| <b>Power Supply Type</b>    | 3.3Vdc from host                                |                                                 |                                                  |
| <b>SW Version</b>           | 28.7.3.0                                        |                                                 |                                                  |
| <b>Operational Climatic</b> | <input checked="" type="checkbox"/> Tnom (20°C) | <input checked="" type="checkbox"/> Tmax (85°C) | <input checked="" type="checkbox"/> Tmin (-40°C) |

#### 1.1.5 Accessories

N/A

#### 1.1.6 Channel List

| Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|-------------|-----------------|-------------|-----------------|
| 37          | 2402            | 18          | 2442            |
| 0           | 2404            | 19          | 2444            |
| 1           | 2406            | 20          | 2446            |
| 2           | 2408            | 21          | 2448            |
| 3           | 2410            | 22          | 2450            |
| 4           | 2412            | 23          | 2452            |
| 5           | 2414            | 24          | 2454            |
| 6           | 2416            | 25          | 2456            |
| 7           | 2418            | 26          | 2458            |
| 8           | 2420            | 27          | 2460            |
| 9           | 2422            | 28          | 2462            |
| 10          | 2424            | 29          | 2464            |
| 38          | 2426            | 30          | 2466            |
| 11          | 2428            | 31          | 2468            |
| 12          | 2430            | 32          | 2470            |
| 13          | 2432            | 33          | 2472            |
| 14          | 2434            | 34          | 2474            |
| 15          | 2436            | 35          | 2476            |
| 16          | 2438            | 36          | 2478            |
| 17          | 2440            | 39          | 2480            |

### 1.1.7 Test Tool and Duty Cycle

#### Model: BL652-SA

| Test Tool       | nRFgo Studio 1.16.1.3119      |                  |
|-----------------|-------------------------------|------------------|
| Modulation Mode | Duty Cycle Of Test Signal (%) | Duty Factor (dB) |
| GFSK-1Mbps      | 65.08%                        | 1.87             |

| Test Tool       | UwTerminal v7.94              |                  |
|-----------------|-------------------------------|------------------|
| Modulation Mode | Duty Cycle Of Test Signal (%) | Duty Factor (dB) |
| GFSK-2Mbps      | 35.35%                        | 4.52             |

#### Model: BL652-SC

| Test Tool       | UwTerminal v7.94              |                  |
|-----------------|-------------------------------|------------------|
| Modulation Mode | Duty Cycle Of Test Signal (%) | Duty Factor (dB) |
| GFSK-1Mbps      | 65.12%                        | 1.86             |
| GFSK-2Mbps      | 35.35%                        | 4.52             |

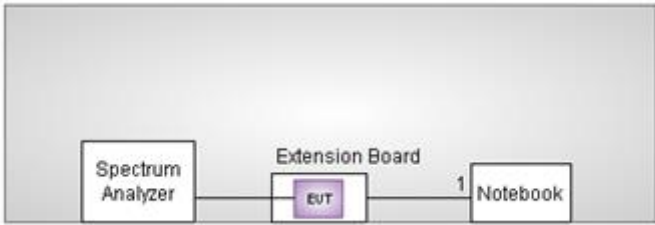
### 1.1.8 Power Setting

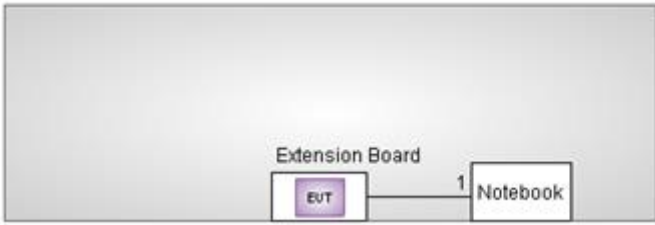
| Modulation Mode | Test Frequency (MHz) |         |         |
|-----------------|----------------------|---------|---------|
|                 | 2402                 | 2440    | 2480    |
| GFSK-1Mbps      | Default              | Default | Default |
| GFSK-2Mbps      | Default              | Default | Default |

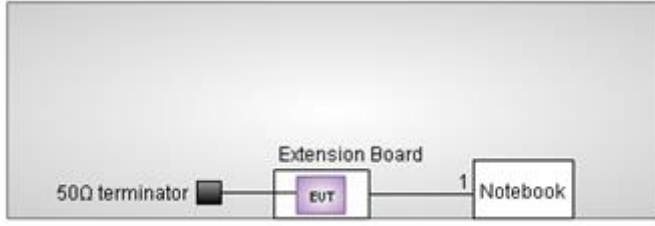
## 1.2 Local Support Equipment List

| Support Equipment List |                 |       |                |         |                        |
|------------------------|-----------------|-------|----------------|---------|------------------------|
| No.                    | Equipment       | Brand | Model          | S/N     | Remarks                |
| 1                      | Notebook        | DELL  | Latitude E6430 | D3LNYW1 | ---                    |
| 2                      | Extension Board | Laird | DVK-BL652-A1   | ---     | Provided by applicant. |
| 3                      | 50Ω terminator  | ---   | ---            | ---     | ---                    |

## 1.3 Test Setup Chart

| Test Setup Diagram (Conducted for Model: BL652-SC)                                  |                           |
|-------------------------------------------------------------------------------------|---------------------------|
|  |                           |
| No.                                                                                 | Signal cable / Length (m) |
| 1                                                                                   | USB, 1m shielded.         |

| Test Setup Diagram (Radiated for Model: BL652-SA)                                    |                           |
|--------------------------------------------------------------------------------------|---------------------------|
|  |                           |
| No.                                                                                  | Signal cable / Length (m) |
| 1                                                                                    | USB, 1m shielded.         |

| Test Setup Diagram (Radiated for Model: BL652-SC)                                    |                           |
|--------------------------------------------------------------------------------------|---------------------------|
|  |                           |
| No.                                                                                  | Signal cable / Length (m) |
| 1                                                                                    | USB, 1m shielded.         |

## 1.4 Test Equipment List and Calibration Data

| Test Item                | Radiated Emissions                     |                   |                     |                  |                   |
|--------------------------|----------------------------------------|-------------------|---------------------|------------------|-------------------|
| Test Site                | Fully-anechoic chamber 2 / (05CH02-WS) |                   |                     |                  |                   |
| Tested Date              | Jul. 20, 2016                          |                   |                     |                  |                   |
| Instrument               | Manufacturer                           | Model No.         | Serial No.          | Calibration Date | Calibration Until |
| Spectrum Analyzer        | Agilent                                | N9010A            | MY52221474          | Sep. 08, 2015    | Sep. 07, 2016     |
| Bilog Antenna 30-1000MHz | SCHWARZBECK                            | VULB9168          | 9168-563            | Dec. 29, 2015    | Dec. 28, 2016     |
| Horn Antenna 1G-18G      | SCHWARZBECK                            | BBHA 9120 D       | 9120D-1205          | Jan. 08, 2016    | Jan. 07, 2017     |
| Horn Antenna 18G-40G     | SCHWARZBECK                            | BBHA 9170         | BBHA 9170508        | Jan. 04, 2016    | Jan. 03, 2017     |
| Preamplifier             | Agilent                                | 83017A            | MY53270013          | Jan. 27, 2016    | Jan. 26, 2017     |
| Preamplifier 30-1000MHz  | EMC                                    | EMC02325          | 980188              | Dec. 10, 2015    | Dec. 09, 2016     |
| Preamplifier             | EMC                                    | EMC184045B        | 980192              | Sep. 01, 2015    | Aug. 31, 2016     |
| RF cable-1M              | HUBER+SUHNER                           | SUCOFLEX104       | MY22622/4           | Dec. 04, 2015    | Dec. 03, 2016     |
| RF cable-1M              | HUBER+SUHNER                           | SUCOFLEX104       | MY22623/4           | Dec. 04, 2015    | Dec. 03, 2016     |
| RF cable-3M              | HUBER+SUHNER                           | SUCOFLEX104       | MY22621/4           | Dec. 04, 2015    | Dec. 03, 2016     |
| RF cable-4M              | HUBER+SUHNER                           | SUCOFLEX104       | MY22579/4           | Dec. 04, 2015    | Dec. 03, 2016     |
| LF cable-0.8M            | EMC                                    | EMC8D-NM-NM-800   | EMC8D-NM-NM-800-002 | Dec. 04, 2015    | Dec. 03, 2016     |
| LF cable-3M              | EMC                                    | EMC8D-NM-NM-3000  | 131102              | Dec. 04, 2015    | Dec. 03, 2016     |
| LF cable-10M             | EMC                                    | EMC8D-NM-NM-10000 | 131101              | Dec. 04, 2015    | Dec. 03, 2016     |
| Measurement Software     | AUDIX                                  | e3                | 6.120210g           | NA               | NA                |

Note: Calibration Interval of instruments listed above is one year.

| Test Item             | RF Conducted  |                  |             |                  |                   |
|-----------------------|---------------|------------------|-------------|------------------|-------------------|
| Test Site             | (TH01-WS)     |                  |             |                  |                   |
| Tested Date           | Jul. 18, 2016 |                  |             |                  |                   |
| Instrument            | Manufacturer  | Model No.        | Serial No.  | Calibration Date | Calibration Until |
| Spectrum Analyzer     | ROHDE&SCHWARZ | FSV40            | 101486      | Oct. 14, 2015    | Oct. 13, 2016     |
| TEMP&HUMIDITY CHAMBER | GIANT FORCE   | GCT-225-40-SP-SD | MAF1212-002 | Nov. 27, 2015    | Nov. 26, 2016     |
| Power Meter           | Anritsu       | ML2495A          | 1241002     | Sep. 21, 2015    | Sep. 20, 2016     |
| Power Sensor          | Anritsu       | MA2411B          | 1207366     | Sep. 21, 2015    | Sep. 20, 2016     |
| DC POWER SOURCE       | GW INSTEK     | GPC-3060D        | EM884797    | Oct. 20, 2015    | Oct. 19, 2016     |
| Measurement Software  | Sporton       | Sporton_1        | 1.3.30      | NA               | NA                |
| Measurement Software  | Agilent       | EN RF test       | 1.1501125   | NA               | NA                |

Note: Calibration Interval of instruments listed above is one year.

|                                                                      |                                        |                  |                   |                         |                          |
|----------------------------------------------------------------------|----------------------------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                     | Radiated Emissions                     |                  |                   |                         |                          |
| <b>Test Site</b>                                                     | Fully-anechoic chamber 1 / (05CH01-WS) |                  |                   |                         |                          |
| <b>Tested Date</b>                                                   | May 28 ~ May 29, 2018                  |                  |                   |                         |                          |
| <b>Instrument</b>                                                    | <b>Manufacturer</b>                    | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer                                                    | Agilent                                | N9010A           | MY54200247        | Sep. 28, 2017           | Sep. 27, 2018            |
| Bilog Antenna                                                        | SCHWARZBECK                            | VULB9168         | VULB9168-524      | Oct. 27, 2017           | Oct. 26, 2018            |
| Horn Antenna<br>1G-18G                                               | SCHWARZBECK                            | BBHA 9120 D      | BBHA 9120 D 1094  | Nov. 10, 2017           | Nov. 09, 2018            |
| Horn Antenna<br>18G-40G                                              | SCHWARZBECK                            | BBHA 9170        | BBHA 9170508      | Dec. 19, 2017           | Dec. 18, 2018            |
| Preamplifier                                                         | Agilent                                | 83017A           | MY39501310        | Nov. 28, 2017           | Nov. 27, 2018            |
| Preamplifier                                                         | EMC                                    | EMC02325         | 980146            | Oct. 13, 2017           | Oct. 12, 2018            |
| Preamplifier                                                         | EMC                                    | EMC184045B       | 980192            | Aug. 22, 2017           | Aug. 21, 2018            |
| RF Cable                                                             | HUBER+SUHNER                           | SUCOFLEX104      | MY22626/4         | Nov. 24, 2017           | Nov. 23, 2018            |
| RF Cable                                                             | HUBER+SUHNER                           | SUCOFLEX104      | MY16608/4         | Nov. 24, 2017           | Nov. 23, 2018            |
| RF Cable                                                             | HUBER+SUHNER                           | SUCOFLEX104      | MY16617/4         | Nov. 24, 2017           | Nov. 23, 2018            |
| LF cable 3M                                                          | Woken                                  | CFD400NL-LW      | CFD400NL-005      | Nov. 24, 2017           | Nov. 23, 2018            |
| LF cable 10M                                                         | Woken                                  | CFD400NL-LW      | CFD400NL-006      | Nov. 24, 2017           | Nov. 23, 2018            |
| Measurement<br>Software                                              | AUDIX                                  | e3               | 6.120210g         | NA                      | NA                       |
| tNote: Calibration Interval of instruments listed above is one year. |                                        |                  |                   |                         |                          |

|                                                                     |                     |                  |                   |                         |                          |
|---------------------------------------------------------------------|---------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | RF Conducted        |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | (TH01-WS)           |                  |                   |                         |                          |
| <b>Tested Date</b>                                                  | Jun. 29, 2018       |                  |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b> | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer                                                   | R&S                 | FSV40            | 101486            | Nov. 21, 2017           | Nov. 20, 2018            |
| Power Sensor                                                        | Agilent             | U2021XA          | MY53480019        | Jan. 29, 2018           | Jan. 28, 2019            |
| Power Sensor                                                        | Agilent             | U2021XA          | MY53510003        | Jan. 29, 2018           | Jan. 28, 2019            |
| Power Sensor                                                        | Agilent             | U2021XA          | MY54070003        | Feb. 08, 2018           | Feb. 07, 2019            |
| Power Sensor                                                        | Agilent             | U2021XA          | MY54060013        | Feb. 08, 2018           | Feb. 07, 2019            |
| Signal Generator                                                    | R&S                 | SMB100A          | 175727            | Oct. 26, 2017           | Oct. 25, 2018            |
| DC POWER<br>SOURCE                                                  | GW INSTEK           | GPC-6030D        | EM892433          | Oct. 26, 2017           | Oct. 25, 2018            |
| Combiner(1X2)                                                       | woken               | 0120A02201801O   | DOM2AEW1A23       | Dec. 04, 2017           | Dec. 03, 2018            |
| Combiner(1X4)                                                       | woken               | 0120A04056002D   | 111204            | Dec. 04, 2017           | Dec. 03, 2018            |
| Measurement<br>Software                                             | Sporton             | Sporton_1        | 1.3.30            | NA                      | NA                       |
| Measurement<br>Software                                             | Agilent             | EN RF test       | 1.1501125         | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                     |                  |                   |                         |                          |

|                                                                     |                     |                  |                   |                         |                          |
|---------------------------------------------------------------------|---------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Receiver Blocking   |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | (05CH02-WS)         |                  |                   |                         |                          |
| <b>Tested Date</b>                                                  | Jun. 04, 2018       |                  |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b> | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Wireless connectivity tester                                        | ROHDE&SCHWARZ       | CMW270           | 100856            | Nov. 13, 2017           | Nov. 12, 2018            |
| Signal Generator                                                    | R&S                 | SMB100A          | 175727            | Oct. 26, 2017           | Oct. 25, 2018            |
| RF Cable                                                            | HUBER+SUHNER        | SUCOFLEX_104     | 500202/4          | Dec. 07, 2017           | Dec. 06, 2018            |
| RF Cable                                                            | HUBER+SUHNER        | SUCOFLEX_104     | 296088/4          | Dec. 07, 2017           | Dec. 06, 2018            |
| RF Cable                                                            | HUBER+SUHNER        | SUCOFLEX_104     | 329023/4          | Dec. 07, 2017           | Dec. 06, 2018            |
| Note: Calibration Interval of instruments listed above is one year. |                     |                  |                   |                         |                          |

## 1.5 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

EN 300 328 V2.1.1 (2016-11)

## 1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Measurement Uncertainty           |             |         |
|-----------------------------------|-------------|---------|
| Parameters                        | Uncertainty | Limit   |
| Occupied Channel Bandwidth        | ±0.0034 %   | ±5 %    |
| RF output power, conducted        | ±0.537 dB   | ±1.5 dB |
| Power Spectral Density, conducted | ±0.463 dB   | ±3 dB   |
| Unwanted Emissions, conducted     | ±2.505 dB   | ±3 dB   |
| All emissions, radiated           | ±3.401 dB   | ±6 dB   |
| Temperature                       | ±0.6 °C     | ±3 °C   |
| Supply voltages                   | ±0.16 %     | ±3 %    |
| Time                              | ±0.1 %      | ±5 %    |

## 2 Test Configuration

### 2.1 Testing Condition

| Test Item         | Test Site | Ambient Condition        | Tested By              |
|-------------------|-----------|--------------------------|------------------------|
| RF Conducted      | TH01-WS   | 20°C / 65%<br>25°C / 65% | Ryan Lee<br>Chris Zeng |
| Radiated Emission | 05CH02-WS | 24°C / 65%               | Chris Zeng             |
|                   | 05CH01-WS | 25°C / 65%               | Mars Lai               |
| Receiver Blocking | 05CH02-WS | 23°C / 63%               | Ryan Lee               |

### 2.2 The Worst Test Modes and Channel Details

| Test item                                                                         | Modulation Mode          | Test Frequency (MHz)                     | Test Configuration    |
|-----------------------------------------------------------------------------------|--------------------------|------------------------------------------|-----------------------|
| RF Output Power                                                                   | GFSK/1Mbps               | 2402 / 2440 / 2480                       | 1, 2, 3, 4            |
| Power Spectral Density                                                            | GFSK/2Mbps               | 2402 / 2440 / 2480                       | 1, 2, 3, 4            |
| Transmitter unwanted emissions in the out of band domain                          | GFSK/2Mbps               | 2402 / 2440 / 2480                       | 1, 2, 3, 4            |
| Occupied Channel Bandwidth                                                        | GFSK/1Mbps<br>GFSK/2Mbps | 2402 / 2440 / 2480<br>2402 / 2440 / 2480 | 1, 4                  |
| Transmitter Conducted Unwanted Emissions<br>Receiver Conducted Unwanted Emissions | GFSK/2Mbps               | 2402 / 2480                              | 4                     |
| Transmitter Spurious Emissions<br>Receiver Spurious Emissions                     | GFSK/1Mbps<br>GFSK/2Mbps | 2402 / 2480<br>2402 / 2480               | 1, 4 <sup>Note2</sup> |
| Receiver Blocking                                                                 | GFSK/1Mbps               | 2402 / 2480                              | 4                     |

**NOTE:**

- The test configurations are listed as follows:  
 Configuration 1 : model: BL652-SA, Chip antenna, Y-plane  
 Configuration 2 : model: BL652-SC, Dipole antenna, Z-plane  
 Configuration 3 : model: BL652-SC, Chip antenna, Z-plane  
 Configuration 4 : model: BL652-SC, PCB Dipole antenna, Z-plane
- 50Ω terminator is connected to antenna port of EUT for radiated emission measurement.

### 3 Transmitter Test Results

#### 3.1 RF Output Power

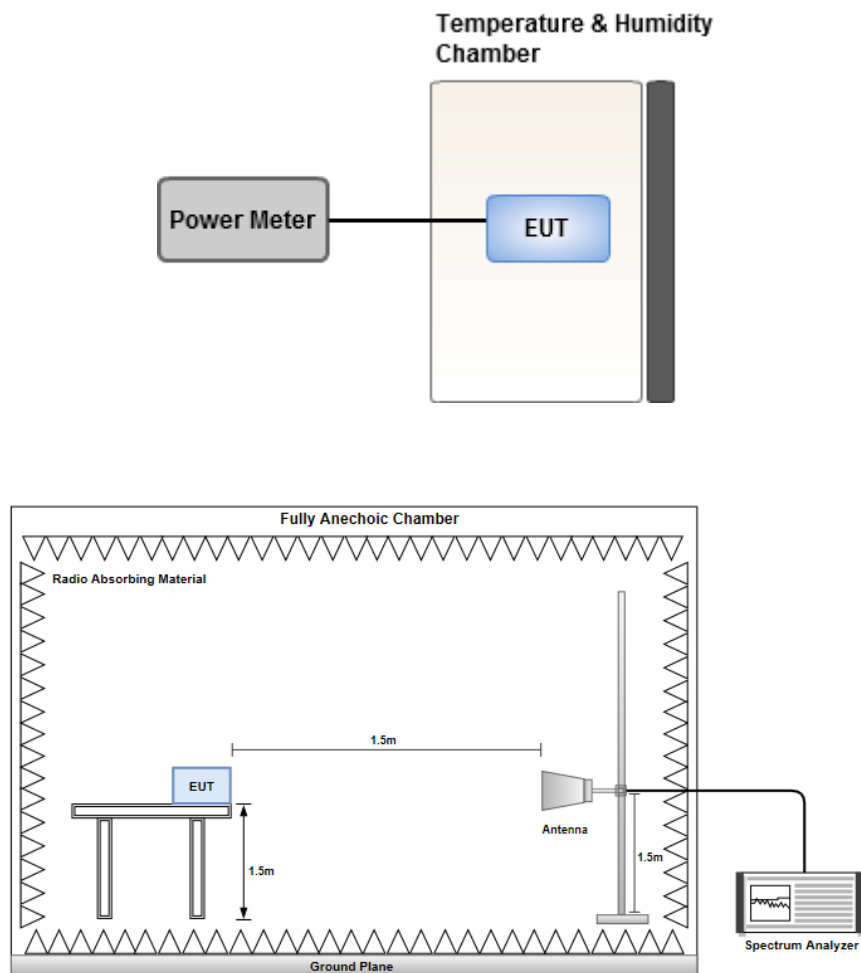
##### 3.1.1 Limit of RF Output Power

The maximum RF output power shall be equal to or less than 20 dBm

##### 3.1.2 Test Procedures

Reference to clause 5.4.2.2 of ETSI EN 300 328 V2.1.1 (2016-11).

##### 3.1.3 Test Setup



### 3.1.4 Test Result of RF Output Power

#### Test Configuration 1

| RF Output Power (dBm) |                 |             |            |             |         |
|-----------------------|-----------------|-------------|------------|-------------|---------|
| Condition             | Modulation Mode | Freq. (MHz) | EIRP Power | Limit (dBm) | Results |
| $T_{nom}V_{nom}$      | GFSK/1Mbps      | 2402        | 2.40       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/1Mbps      | 2402        | 3.40       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/1Mbps      | 2402        | 1.27       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/1Mbps      | 2440        | 4.08       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/1Mbps      | 2440        | 5.13       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/1Mbps      | 2440        | 2.90       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/1Mbps      | 2480        | 3.54       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/1Mbps      | 2480        | 4.70       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/1Mbps      | 2480        | 2.27       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/2Mbps      | 2402        | 4.89       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/2Mbps      | 2402        | 5.89       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/2Mbps      | 2402        | 3.76       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/2Mbps      | 2440        | 4.92       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/2Mbps      | 2440        | 5.97       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/2Mbps      | 2440        | 3.74       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/2Mbps      | 2480        | 4.84       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/2Mbps      | 2480        | 6.00       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/2Mbps      | 2480        | 3.57       | 20          | Pass    |

Note: Radiated measurement method is used.

### Test Configuration 2

| RF Output Power (dBm) |                 |             |            |             |         |
|-----------------------|-----------------|-------------|------------|-------------|---------|
| Condition             | Modulation Mode | Freq. (MHz) | EIRP Power | Limit (dBm) | Results |
| $T_{nom}V_{nom}$      | GFSK/1Mbps      | 2402        | 6.41       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/1Mbps      | 2402        | 7.41       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/1Mbps      | 2402        | 5.28       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/1Mbps      | 2440        | 6.37       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/1Mbps      | 2440        | 7.42       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/1Mbps      | 2440        | 5.19       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/1Mbps      | 2480        | 6.32       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/1Mbps      | 2480        | 7.48       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/1Mbps      | 2480        | 5.05       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/2Mbps      | 2402        | 6.39       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/2Mbps      | 2402        | 7.39       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/2Mbps      | 2402        | 5.26       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/2Mbps      | 2440        | 6.42       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/2Mbps      | 2440        | 7.47       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/2Mbps      | 2440        | 5.24       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/2Mbps      | 2480        | 6.34       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/2Mbps      | 2480        | 7.50       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/2Mbps      | 2480        | 5.07       | 20          | Pass    |

Note: Conducted measurement method is used.

### Test Configuration 3

| RF Output Power (dBm) |                 |             |            |             |         |
|-----------------------|-----------------|-------------|------------|-------------|---------|
| Condition             | Modulation Mode | Freq. (MHz) | EIRP Power | Limit (dBm) | Results |
| $T_{nom}V_{nom}$      | GFSK/1Mbps      | 2402        | 2.65       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/1Mbps      | 2402        | 3.65       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/1Mbps      | 2402        | 1.52       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/1Mbps      | 2440        | 2.61       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/1Mbps      | 2440        | 3.66       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/1Mbps      | 2440        | 1.43       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/1Mbps      | 2480        | 2.56       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/1Mbps      | 2480        | 3.72       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/1Mbps      | 2480        | 1.29       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/2Mbps      | 2402        | 2.63       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/2Mbps      | 2402        | 3.63       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/2Mbps      | 2402        | 1.50       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/2Mbps      | 2440        | 2.66       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/2Mbps      | 2440        | 3.71       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/2Mbps      | 2440        | 1.48       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/2Mbps      | 2480        | 2.58       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/2Mbps      | 2480        | 3.74       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/2Mbps      | 2480        | 1.31       | 20          | Pass    |

Note: Conducted measurement method is used.

### Test Configuration 4

| RF Output Power (dBm) |                 |             |            |             |         |
|-----------------------|-----------------|-------------|------------|-------------|---------|
| Condition             | Modulation Mode | Freq. (MHz) | EIRP Power | Limit (dBm) | Results |
| $T_{nom}V_{nom}$      | GFSK/1Mbps      | 2402        | 6.62       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/1Mbps      | 2402        | 7.62       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/1Mbps      | 2402        | 5.49       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/1Mbps      | 2440        | 6.58       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/1Mbps      | 2440        | 7.63       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/1Mbps      | 2440        | 5.40       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/1Mbps      | 2480        | 6.53       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/1Mbps      | 2480        | 7.69       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/1Mbps      | 2480        | 5.26       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/2Mbps      | 2402        | 6.60       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/2Mbps      | 2402        | 7.60       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/2Mbps      | 2402        | 5.47       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/2Mbps      | 2440        | 6.63       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/2Mbps      | 2440        | 7.68       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/2Mbps      | 2440        | 5.45       | 20          | Pass    |
| $T_{nom}V_{nom}$      | GFSK/2Mbps      | 2480        | 6.55       | 20          | Pass    |
| $T_{min}V_{nom}$      | GFSK/2Mbps      | 2480        | 7.71       | 20          | Pass    |
| $T_{max}V_{nom}$      | GFSK/2Mbps      | 2480        | 5.28       | 20          | Pass    |

Note: Conducted measurement method is used.

## 3.2 Power Spectral Density

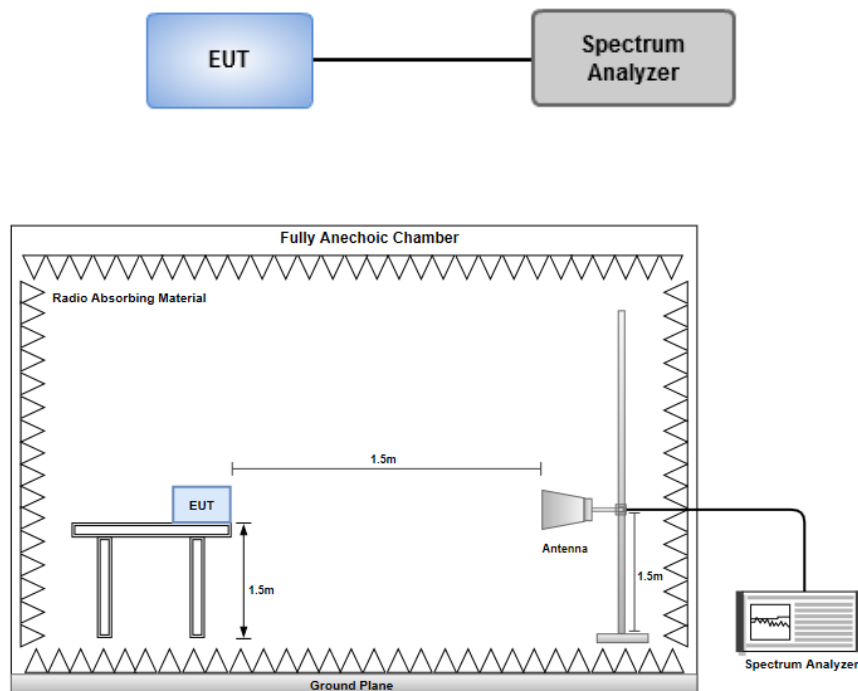
### 3.2.1 Limit of Power Spectral Density

For equipment using wide band modulations other than FHSS (e.g. DSSS, OFDM, etc.), the maximum Power Spectral Density is limited to 10 dBm per MHz.

### 3.2.2 Test Procedures

Reference to clause 5.4.3.2 of ETSI EN 300 328 V2.1.1 (2016-11).

### 3.2.3 Test Setup



### 3.2.4 Test Result of Power Spectral Density

#### Test Configuration 1

| Modulation Mode | Freq. (MHz) | Power Density (dBm/1MHz) | Limit (dBm/1MHz) | Results |
|-----------------|-------------|--------------------------|------------------|---------|
| GFSK/1Mbps      | 2402        | 1.75                     | 10               | Pass    |
| GFSK/1Mbps      | 2440        | 3.43                     | 10               | Pass    |
| GFSK/1Mbps      | 2480        | 2.89                     | 10               | Pass    |
| GFSK/2Mbps      | 2402        | 3.73                     | 10               | Pass    |
| GFSK/2Mbps      | 2440        | 3.74                     | 10               | Pass    |
| GFSK/2Mbps      | 2480        | 3.64                     | 10               | Pass    |

Note: Radiated measurement method is used.

#### Test Configuration 2

| Modulation Mode | Freq. (MHz) | Power Density (dBm/1MHz) | Limit (dBm/1MHz) | Results |
|-----------------|-------------|--------------------------|------------------|---------|
| GFSK/1Mbps      | 2402        | 5.24                     | 10               | Pass    |
| GFSK/1Mbps      | 2440        | 5.21                     | 10               | Pass    |
| GFSK/1Mbps      | 2480        | 5.10                     | 10               | Pass    |
| GFSK/2Mbps      | 2402        | 5.23                     | 10               | Pass    |
| GFSK/2Mbps      | 2440        | 5.24                     | 10               | Pass    |
| GFSK/2Mbps      | 2480        | 5.14                     | 10               | Pass    |

Note: Conducted measurement method is used.

#### Test Configuration 3

| Modulation Mode | Freq. (MHz) | Power Density (dBm/1MHz) | Limit (dBm/1MHz) | Results |
|-----------------|-------------|--------------------------|------------------|---------|
| GFSK/1Mbps      | 2402        | 1.48                     | 10               | Pass    |
| GFSK/1Mbps      | 2440        | 1.45                     | 10               | Pass    |
| GFSK/1Mbps      | 2480        | 1.34                     | 10               | Pass    |
| GFSK/2Mbps      | 2402        | 1.47                     | 10               | Pass    |
| GFSK/2Mbps      | 2440        | 1.48                     | 10               | Pass    |
| GFSK/2Mbps      | 2480        | 1.38                     | 10               | Pass    |

Note: Conducted measurement method is used.

**Test Configuration 4**

| Modulation Mode | Freq. (MHz) | Power Density (dBm/1MHz) | Limit (dBm/1MHz) | Results |
|-----------------|-------------|--------------------------|------------------|---------|
| GFSK/1Mbps      | 2402        | 5.45                     | 10               | Pass    |
| GFSK/1Mbps      | 2440        | 5.42                     | 10               | Pass    |
| GFSK/1Mbps      | 2480        | 5.31                     | 10               | Pass    |
| GFSK/2Mbps      | 2402        | 5.44                     | 10               | Pass    |
| GFSK/2Mbps      | 2440        | 5.45                     | 10               | Pass    |
| GFSK/2Mbps      | 2480        | 5.35                     | 10               | Pass    |

Note: Conducted measurement method is used.

### 3.3 Occupied Channel Bandwidth

#### 3.3.1 Limit of Occupied Channel Bandwidth

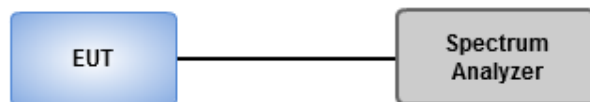
The Occupied Channel Bandwidth shall fall completely within 2.4~2.4835 GHz.

In addition, for non-adaptive equipment using wide band modulations other than FHSS and with e.i.r.p greater than 10 dBm, the occupied channel bandwidth shall be less than 20 MHz.

#### 3.3.2 Test Procedures

Reference to clause 5.4.7.2 of ETSI EN 300 328 V2.1.1 (2016-11).

#### 3.3.3 Test Setup



### 3.3.4 Test Result of Occupied Channel Bandwidth

#### Test Configuration 1 (1Mbps)

| Modulation Mode | Frequency (MHz) | 99% Bandwidth (MHz) | F <sub>L</sub> at 99% BW (MHz) | F <sub>H</sub> at 99% BW (MHz) | Limit F <sub>L</sub> / F <sub>H</sub> (MHz) |
|-----------------|-----------------|---------------------|--------------------------------|--------------------------------|---------------------------------------------|
| GFSK-1Mbps      | 2402            | 1.04                | 2401.46                        | 2402.50                        | 2400.0                                      |
| GFSK-1Mbps      | 2480            | 1.04                | 2479.46                        | 2480.50                        | 2483.5                                      |

#### Test Configuration 1 (2Mbps)

##### Summary

| Mode          | OBW (Hz) | ITU-Code |
|---------------|----------|----------|
| 2.4-2.4835GHz | -        | -        |
| BT-LE(2Mbps)  | 2.091M   | 2M09F1D  |

**OBW** = 99% occupied bandwidth;

##### Result

| Mode             | Result | Limit (Hz)  | fl-OBW (Hz) | fh-OBW (Hz) | OBW (Hz) | N dB (Hz) |
|------------------|--------|-------------|-------------|-------------|----------|-----------|
| BT-LE(2Mbps)     | -      | -           | -           | -           | -        | -         |
| 2402MHz_TnomVnom | Pass   | 2.4-2.4835G | 2.400989G   | 2.403071G   | 2.083M   | 1.024M    |
| 2480MHz_TnomVnom | Pass   | 2.4-2.4835G | 2.478985G   | 2.481075G   | 2.091M   | 1.034M    |

**fl-OBW** = fl lower edge 99% occupied bandwidth; **fh-OBW** = fh higher edge 99% occupied bandwidth; **OBW** = 99% occupied bandwidth;

**N dB** = 6dB down bandwidth;

### Test Configuration 4 (1Mbps)

#### Summary

| Mode          | OBW<br>(Hz) | ITU-Code |
|---------------|-------------|----------|
| 2.4-2.4835GHz | -           | -        |
| BT-LE(1Mbps)  | 1.055M      | 1M06F1D  |

**OBW** = 99% occupied bandwidth;

#### Result

| Mode             | Result | Limit<br>(Hz) | fl-OBW<br>(Hz) | fh-OBW<br>(Hz) | OBW<br>(Hz) | N dB<br>(Hz) |
|------------------|--------|---------------|----------------|----------------|-------------|--------------|
| BT-LE(1Mbps)     | -      | -             | -              | -              | -           | -            |
| 2402MHz_TnomVnom | Pass   | 2.4-2.4835G   | 2.401494G      | 2.402544G      | 1.049M      | 666k         |
| 2480MHz_TnomVnom | Pass   | 2.4-2.4835G   | 2.479491G      | 2.480547G      | 1.055M      | 665k         |

**fl-OBW** = fl lower edge 99% occupied bandwidth; **fh-OBW** = fh higher edge 99% occupied bandwidth; **OBW** = 99% occupied bandwidth;

**N dB** = 6dB down bandwidth;

### Test Configuration 4 (2Mbps)

#### Summary

| Mode          | OBW<br>(Hz) | ITU-Code |
|---------------|-------------|----------|
| 2.4-2.4835GHz | -           | -        |
| BT-LE(2Mbps)  | 2.091M      | 2M09F1D  |

**OBW** = 99% occupied bandwidth;

#### Result

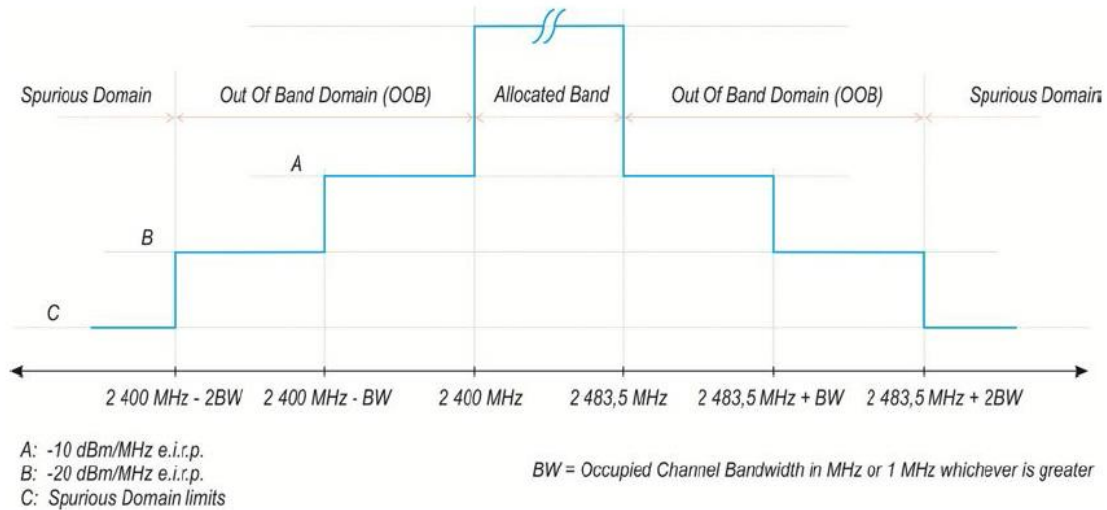
| Mode             | Result | Limit<br>(Hz) | fl-OBW<br>(Hz) | fh-OBW<br>(Hz) | OBW<br>(Hz) | N dB<br>(Hz) |
|------------------|--------|---------------|----------------|----------------|-------------|--------------|
| BT-LE(2Mbps)     | -      | -             | -              | -              | -           | -            |
| 2402MHz_TnomVnom | Pass   | 2.4-2.4835G   | 2.400989G      | 2.403071G      | 2.083M      | 1.024M       |
| 2480MHz_TnomVnom | Pass   | 2.4-2.4835G   | 2.478985G      | 2.481075G      | 2.091M      | 1.034M       |

**fl-OBW** = fl lower edge 99% occupied bandwidth; **fh-OBW** = fh higher edge 99% occupied bandwidth; **OBW** = 99% occupied bandwidth;

**N dB** = 6dB down bandwidth;

### 3.4 Transmitter Unwanted Emissions in the Out-Of-Band Domain

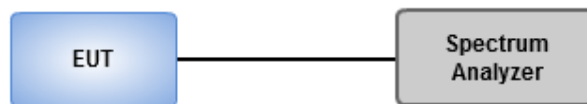
#### 3.4.1 Limit of Transmitter Unwanted Emissions in the Out-Of-Band Domain



#### 3.4.2 Test Procedures

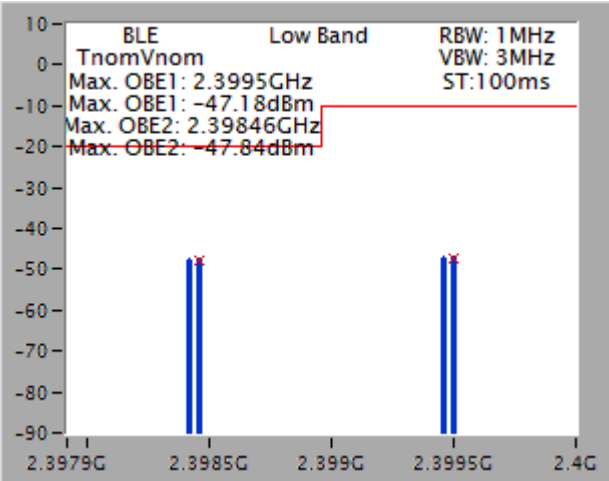
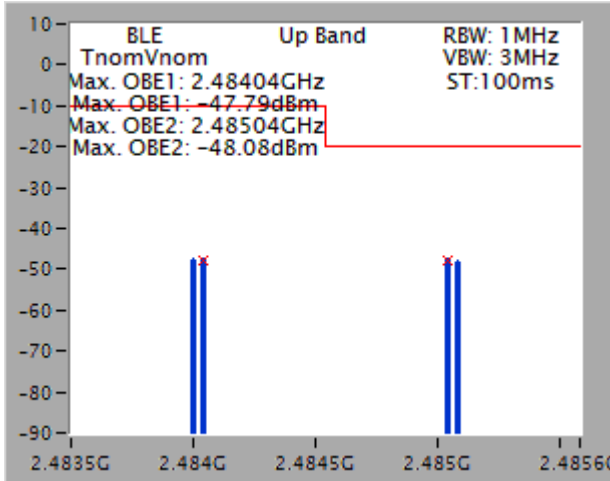
Reference to clause 5.4.8.2 of ETSI EN 300 328 V2.1.1 (2016-11).

#### 3.4.3 Test Setup



### 3.4.4 Test Result of Transmitter Unwanted Emissions in the Out-Of-Band Domain

#### Test Configuration 1 (1Mbps)

| Condition                                                                          | Modulation Mode | Freq. (MHz) | OOB Freq. (MHz)                                                                     | OOB Emissions (dBm) | Limit (dBm) |
|------------------------------------------------------------------------------------|-----------------|-------------|-------------------------------------------------------------------------------------|---------------------|-------------|
| TnomVnom                                                                           | GFSK-1Mbps      | 2402        | 2399.50                                                                             | -47.18              | -10         |
| TnomVnom                                                                           | GFSK-1Mbps      | 2402        | 2398.46                                                                             | -47.84              | -20         |
| TnomVnom                                                                           | GFSK-1Mbps      | 2480        | 2484.04                                                                             | -47.79              | -10         |
| TnomVnom                                                                           | GFSK-1Mbps      | 2480        | 2485.04                                                                             | -48.08              | -20         |
| Low Band                                                                           |                 |             | Up Band                                                                             |                     |             |
|  |                 |             |  |                     |             |

### Test Configuration 1 (2Mbps)

#### Summary

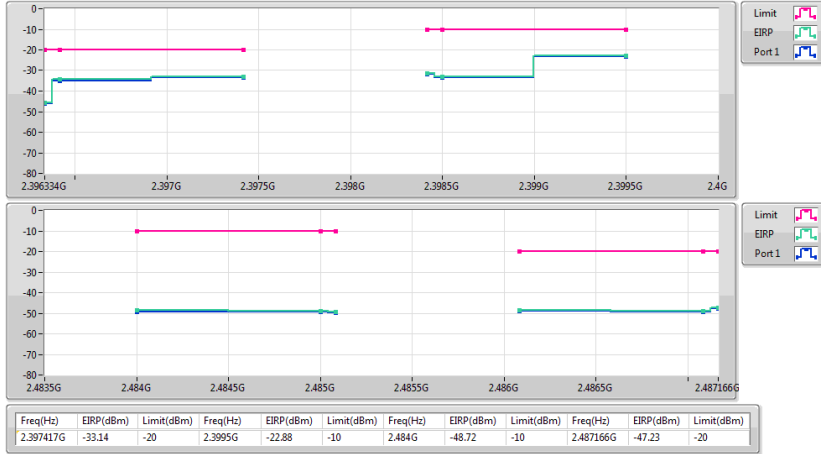
| Mode          | EIRP-A<br>(dBm) | Limit-A<br>(dBm) | EIRP-B<br>(dBm) | Limit-B<br>(dBm) |
|---------------|-----------------|------------------|-----------------|------------------|
| 2.4-2.4835GHz | -               | -                | -               | -                |
| BT-LE(2Mbps)  | -22.88          | -10              | -32.82          | -20              |

#### Result

| Mode             | Result | Freq<br>(Hz) | EIRP<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | EIRP<br>(dBm) | Limit<br>(dBm) |
|------------------|--------|--------------|---------------|----------------|--------------|---------------|----------------|
| BT-LE(2Mbps)     | -      | -            | -             | -              | -            | -             | -              |
| 2402MHz_TnomVnom | Pass   | 2.397417G    | -33.14        | -20            | 2.3995G      | -22.88        | -10            |
| 2402MHz_TnomVnom | Pass   | 2.487166G    | -47.23        | -20            | 2.484G       | -48.72        | -10            |
| 2480MHz_TnomVnom | Pass   | 2.396409G    | -48.15        | -20            | 2.3985G      | -48.60        | -10            |
| 2402MHz_TnomVnom | Pass   | 2.486091G    | -32.82        | -20            | 2.485G       | -34.46        | -10            |

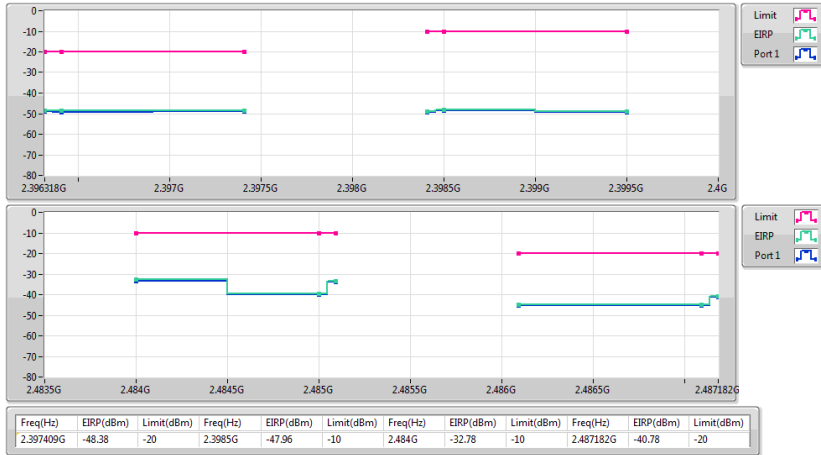
### BT-LE(2Mbps)

#### 2402MHz\_TnomVnom



### BT-LE(2Mbps)

#### 2480MHz\_TnomVnom



## Test Configuration 2 (1Mbps)

### Summary

| Mode          | EIRP-A<br>(dBm) | Limit-A<br>(dBm) | EIRP-B<br>(dBm) | Limit-B<br>(dBm) |
|---------------|-----------------|------------------|-----------------|------------------|
| 2.4-2.4835GHz | -               | -                | -               | -                |
| BT-LE(1Mbps)  | -32.18          | -10              | -36.05          | -20              |

### Result

| Mode             | Result | Freq<br>(Hz) | EIRP<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | EIRP<br>(dBm) | Limit<br>(dBm) |
|------------------|--------|--------------|---------------|----------------|--------------|---------------|----------------|
| BT-LE(1Mbps)     | -      | -            | -             | -              | -            | -             | -              |
| 2402MHz_TnomVnom | Pass   | 2.39845G     | -36.05        | -20            | 2.3995G      | -32.18        | -10            |
| 2402MHz_TnomVnom | Pass   | 2.48505G     | -44.01        | -20            | 2.48405G     | -45.44        | -10            |
| 2480MHz_TnomVnom | Pass   | 2.398445G    | -45.35        | -20            | 2.3995G      | -46.16        | -10            |
| 2480MHz_TnomVnom | Pass   | 2.48511G     | -44.58        | -20            | 2.484G       | -34.37        | -10            |

### BT-LE(1Mbps)

#### 2402MHz\_TnomVnom



### BT-LE(1Mbps)

#### 2480MHz\_TnomVnom



## Test Configuration 2 (2Mbps)

### Summary

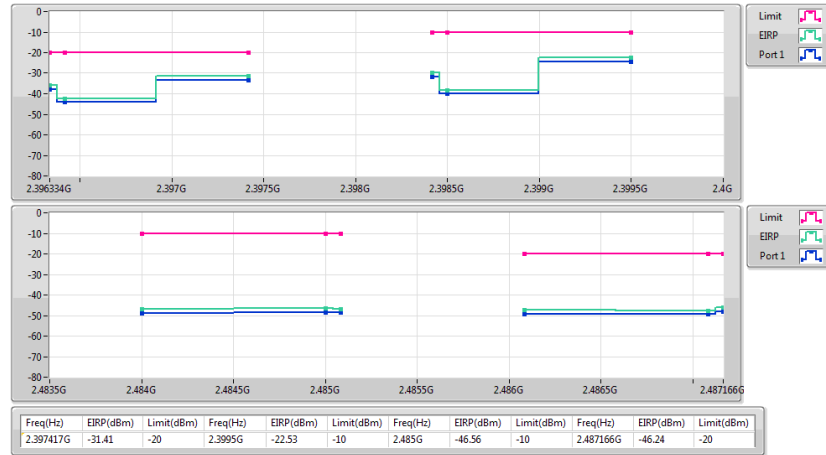
| Mode          | EIRP-A<br>(dBm) | Limit-A<br>(dBm) | EIRP-B<br>(dBm) | Limit-B<br>(dBm) |
|---------------|-----------------|------------------|-----------------|------------------|
| 2.4-2.4835GHz | -               | -                | -               | -                |
| BT-LE(2Mbps)  | -22.53          | -10              | -31.41          | -20              |

### Result

| Mode             | Result | Freq<br>(Hz) | EIRP<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | EIRP<br>(dBm) | Limit<br>(dBm) |
|------------------|--------|--------------|---------------|----------------|--------------|---------------|----------------|
| BT-LE(2Mbps)     | -      | -            | -             | -              | -            | -             | -              |
| 2402MHz_TnomVnom | Pass   | 2.397417G    | -31.41        | -20            | 2.3995G      | -22.53        | -10            |
| 2402MHz_TnomVnom | Pass   | 2.487166G    | -46.24        | -20            | 2.485G       | -46.56        | -10            |
| 2480MHz_TnomVnom | Pass   | 2.396409G    | -47.24        | -20            | 2.398409G    | -47.20        | -10            |
| 2402MHz_TnomVnom | Pass   | 2.486091G    | -32.17        | -20            | 2.485G       | -32.08        | -10            |

### BT-LE(2Mbps)

#### 2402MHz\_TnomVnom



### BT-LE(2Mbps)

#### 2480MHz\_TnomVnom



### Test Configuration 3 (1Mbps)

#### Summary

| Mode          | EIRP-A<br>(dBm) | Limit-A<br>(dBm) | EIRP-B<br>(dBm) | Limit-B<br>(dBm) |
|---------------|-----------------|------------------|-----------------|------------------|
| 2.4-2.4835GHz | -               | -                | -               | -                |
| BT-LE(1Mbps)  | -32.47          | -10              | -34.4           | -20              |

#### Result

| Mode             | Result | Freq<br>(Hz) | EIRP<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | EIRP<br>(dBm) | Limit<br>(dBm) |
|------------------|--------|--------------|---------------|----------------|--------------|---------------|----------------|
| BT-LE(1Mbps)     | -      | -            | -             | -              | -            | -             | -              |
| 2402MHz_TnomVnom | Pass   | 2.3984G      | -34.40        | -20            | 2.3995G      | -32.47        | -10            |
| 2402MHz_TnomVnom | Pass   | 2.48505G     | -45.14        | -20            | 2.484G       | -44.47        | -10            |
| 2480MHz_TnomVnom | Pass   | 2.39839G     | -43.99        | -20            | 2.3995G      | -45.20        | -10            |
| 2480MHz_TnomVnom | Pass   | 2.485055G    | -36.46        | -20            | 2.484055G    | -35.46        | -10            |

### BT-LE(1Mbps)

#### 2402MHz\_TnomVnom



### BT-LE(1Mbps)

#### 2480MHz\_TnomVnom



### Test Configuration 3 (2Mbps)

#### Summary

| Mode          | EIRP-A<br>(dBm) | Limit-A<br>(dBm) | EIRP-B<br>(dBm) | Limit-B<br>(dBm) |
|---------------|-----------------|------------------|-----------------|------------------|
| 2.4-2.4835GHz | -               | -                | -               | -                |
| BT-LE(2Mbps)  | -22.71          | -10              | -32.53          | -20              |

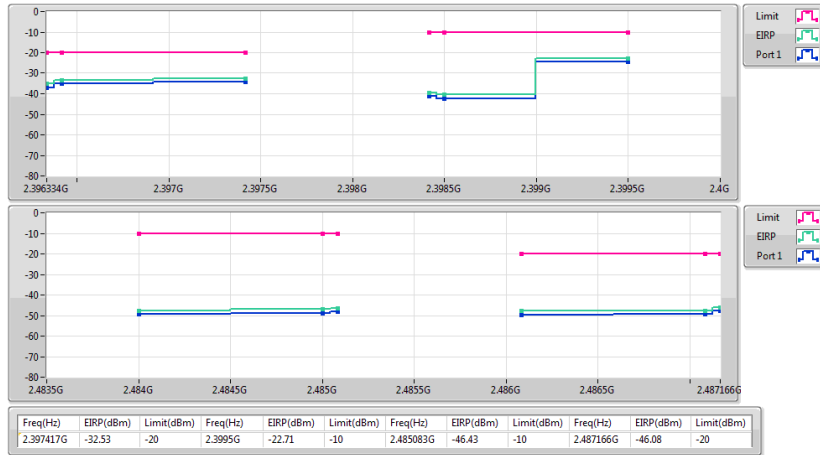
#### Result

| Mode             | Result | Freq<br>(Hz) | EIRP<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | EIRP<br>(dBm) | Limit<br>(dBm) |
|------------------|--------|--------------|---------------|----------------|--------------|---------------|----------------|
| BT-LE(2Mbps)     | -      | -            | -             | -              | -            | -             | -              |
| 2402MHz_TnomVnom | Pass   | 2.397417G    | -32.53        | -20            | 2.3995G      | -22.71        | -10            |
| 2402MHz_TnomVnom | Pass   | 2.487166G    | -46.08        | -20            | 2.485083G    | -46.43        | -10            |
| 2480MHz_TnomVnom | Pass   | 2.397409G    | -46.85        | -20            | 2.3995G      | -47.31        | -10            |
| 2402MHz_TnomVnom | Pass   | 2.486091G    | -39.85        | -20            | 2.484G       | -30.73        | -10            |

### BT-LE(2Mbps)

#### 2402MHz\_TnomVnom

### Mask



### BT-LE(2Mbps)

#### 2480MHz\_TnomVnom

### Mask



### Test Configuration 4 (1Mbps)

#### Summary

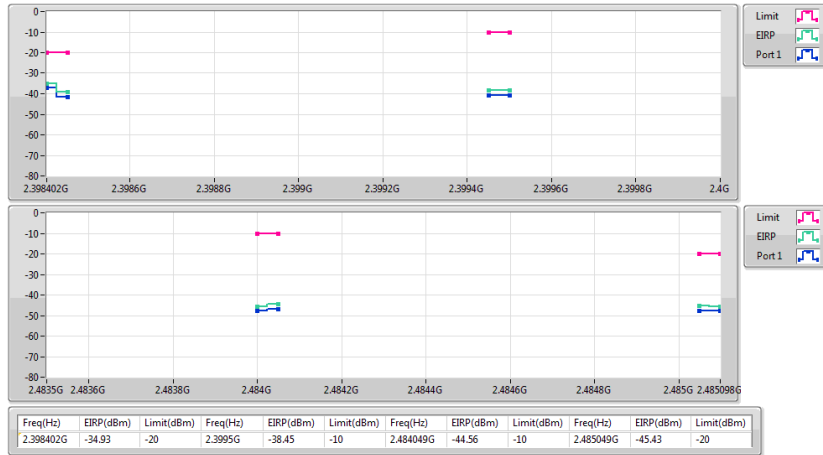
| Mode          | EIRP-A<br>(dBm) | Limit-A<br>(dBm) | EIRP-B<br>(dBm) | Limit-B<br>(dBm) |
|---------------|-----------------|------------------|-----------------|------------------|
| 2.4-2.4835GHz | -               | -                | -               | -                |
| BT-LE(1Mbps)  | -34.61          | -10              | -34.93          | -20              |

#### Result

| Mode             | Result | Freq<br>(Hz) | EIRP<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | EIRP<br>(dBm) | Limit<br>(dBm) |
|------------------|--------|--------------|---------------|----------------|--------------|---------------|----------------|
| BT-LE(1Mbps)     | -      | -            | -             | -              | -            | -             | -              |
| 2402MHz_TnomVnom | Pass   | 2.398402G    | -34.93        | -20            | 2.3995G      | -38.45        | -10            |
| 2402MHz_TnomVnom | Pass   | 2.485049G    | -45.43        | -20            | 2.484049G    | -44.56        | -10            |
| 2480MHz_TnomVnom | Pass   | 2.39839G     | -45.90        | -20            | 2.399445G    | -45.82        | -10            |
| 2402MHz_TnomVnom | Pass   | 2.484049G    | -44.56        | -10            | 2.484G       | -34.61        | -10            |

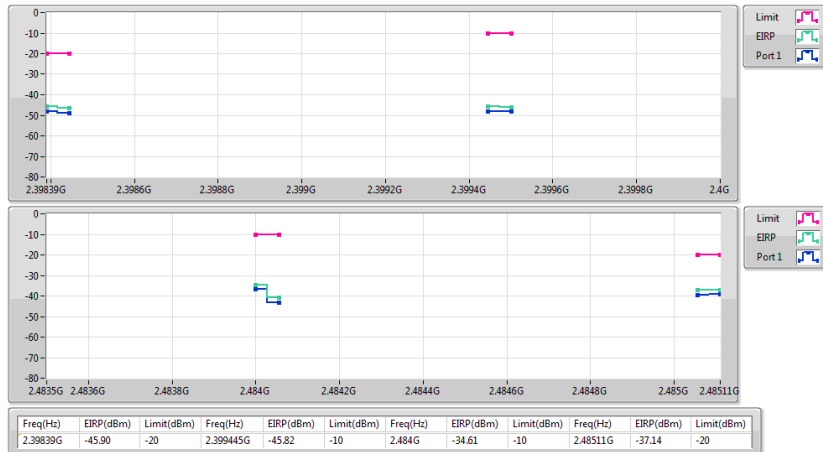
### BT-LE(1Mbps)

#### 2402MHz\_TnomVnom



### BT-LE(1Mbps)

#### 2480MHz\_TnomVnom



### Test Configuration 4 (2Mbps)

#### Summary

| Mode          | EIRP-A<br>(dBm) | Limit-A<br>(dBm) | EIRP-B<br>(dBm) | Limit-B<br>(dBm) |
|---------------|-----------------|------------------|-----------------|------------------|
| 2.4-2.4835GHz | -               | -                | -               | -                |
| BT-LE(2Mbps)  | -21.74          | -10              | -33.52          | -20              |

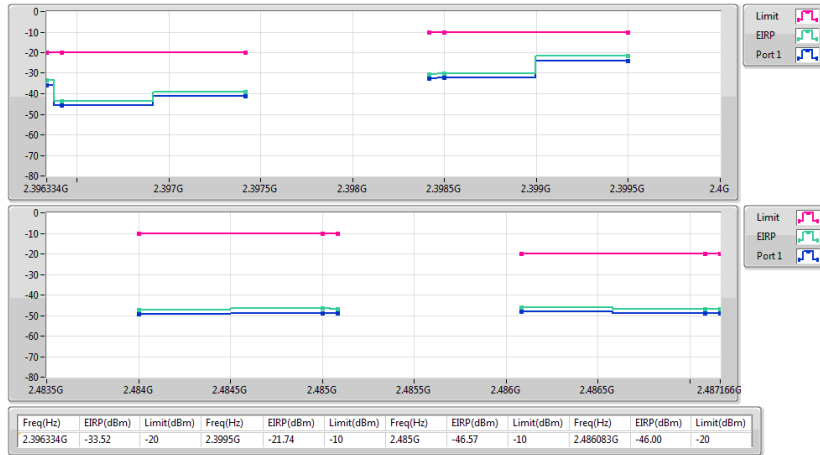
#### Result

| Mode             | Result | Freq<br>(Hz) | EIRP<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | EIRP<br>(dBm) | Limit<br>(dBm) |
|------------------|--------|--------------|---------------|----------------|--------------|---------------|----------------|
| BT-LE(2Mbps)     | -      | -            | -             | -              | -            | -             | -              |
| 2402MHz_TnomVnom | Pass   | 2.396334G    | -33.52        | -20            | 2.3995G      | -21.74        | -10            |
| 2402MHz_TnomVnom | Pass   | 2.486083G    | -46.00        | -20            | 2.485G       | -46.57        | -10            |
| 2480MHz_TnomVnom | Pass   | 2.396318G    | -46.25        | -20            | 2.398409G    | -47.10        | -10            |
| 2480MHz_TnomVnom | Pass   | 2.487091G    | -33.63        | -20            | 2.485G       | -30.77        | -10            |

### BT-LE(2Mbps)

### Mask

#### 2402MHz\_TnomVnom



### BT-LE(2Mbps)

### Mask

#### 2480MHz\_TnomVnom



### 3.5 Transmitter Unwanted Emissions in the Spurious Domain

#### 3.5.1 Limit of Transmitter Unwanted Emissions in the Spurious Domain

| Emission Limits       |                     |                 |
|-----------------------|---------------------|-----------------|
| Frequency Range (MHz) | Maximum power (dBm) | Bandwidth (kHz) |
| 30 to 47              | -36                 | 100             |
| 47 to 74              | -54                 | 100             |
| 74 to 87.5            | -36                 | 100             |
| 87.5 to 118           | -54                 | 100             |
| 118 to 174            | -36                 | 100             |
| 174 to 230            | -54                 | 100             |
| 230 to 470            | -36                 | 100             |
| 470 to 862            | -54                 | 100             |
| 862 to 1000           | -36                 | 100             |
| 1000 to 12750         | -30                 | 1000            |

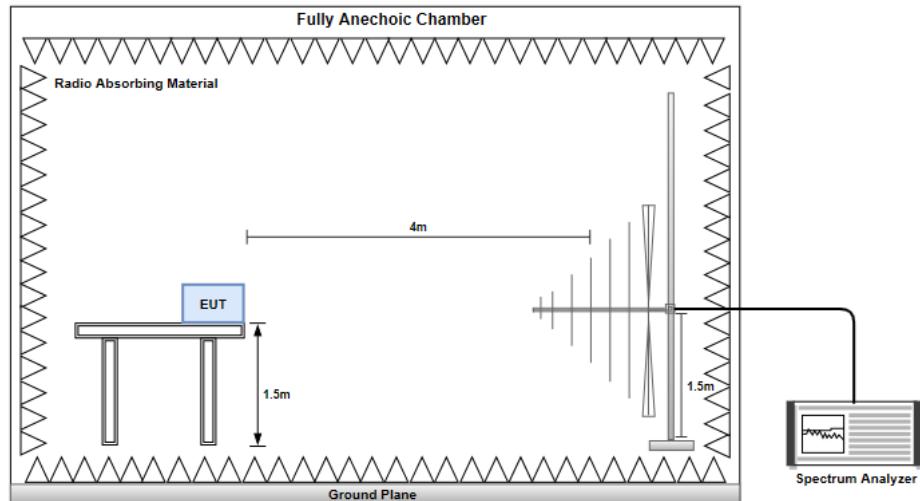
#### 3.5.2 Test Procedures

Reference to clause 5.4.9.2 of ETSI EN 300 328 V2.1.1 (2016-11).

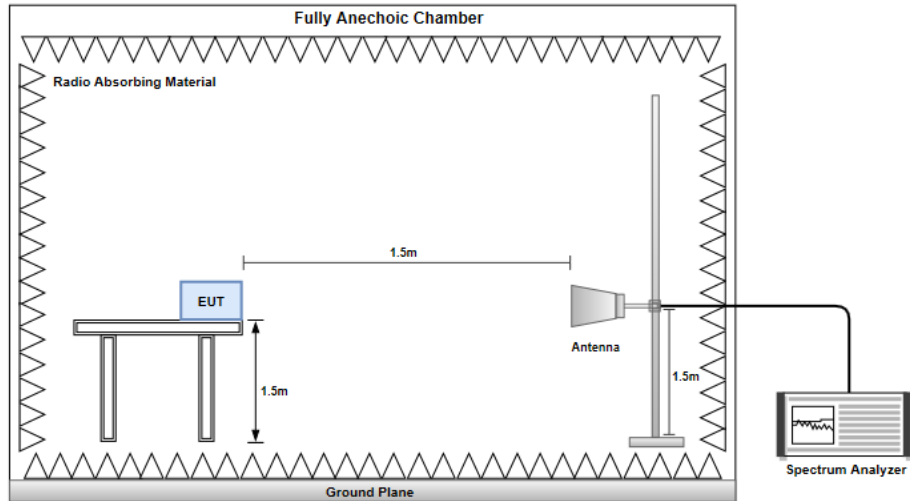
### 3.5.3 Test Setup

#### Radiated Emission

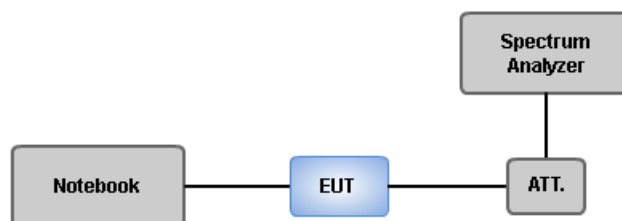
##### Below 1GHz



##### Above 1 GHz



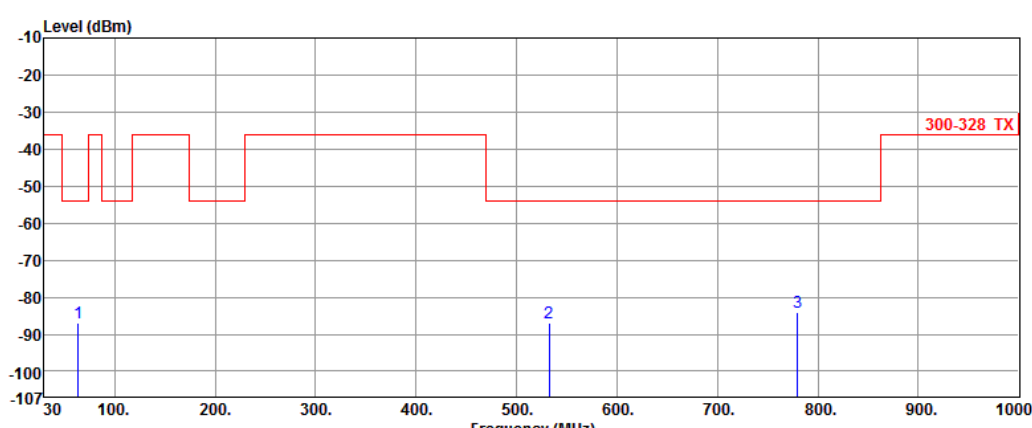
#### Conducted Emission



## Configuration 4

### 3.5.4 Transmitter Conducted Unwanted Emissions (Below 1GHz)

|                    |            |                  |      |
|--------------------|------------|------------------|------|
| Modulation         | GFSK/1Mbps | Test Freq. (MHz) | 2402 |
| Test Configuration | 4          |                  |      |

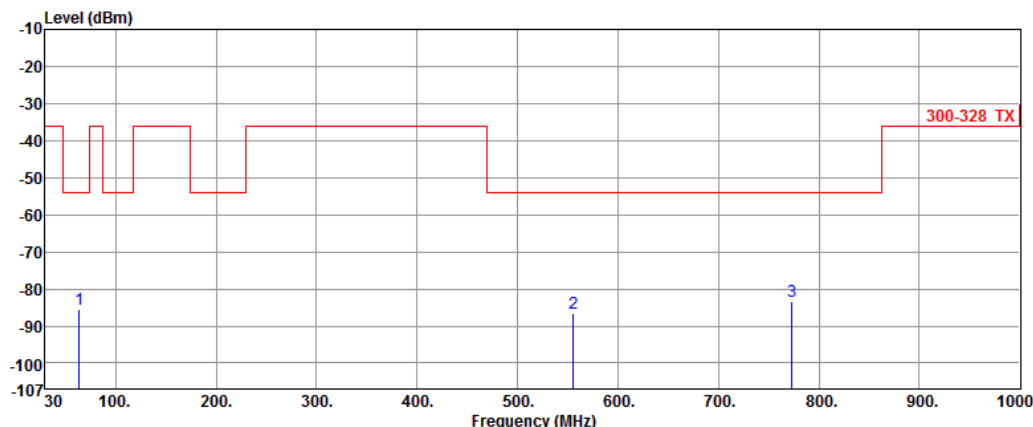


|   | Freq.  | Measured value | Limit  | Margin | Factor | Reading |
|---|--------|----------------|--------|--------|--------|---------|
|   | MHz    | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 63.95  | -86.87         | -54.00 | -32.87 | 0.00   | -86.87  |
| 2 | 532.46 | -87.12         | -54.00 | -33.12 | 0.00   | -87.12  |
| 3 | 779.81 | -84.09         | -54.00 | -30.09 | 0.00   | -84.09  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                    |            |                  |      |
|--------------------|------------|------------------|------|
| Modulation         | GFSK/1Mbps | Test Freq. (MHz) | 2480 |
| Test Configuration | 4          |                  |      |



| Freq. | Measured value | Limit  | Margin | Factor | Reading |        |
|-------|----------------|--------|--------|--------|---------|--------|
| MHz   | dBm            | dBm    | dB     | dB     | dBm     |        |
| 1     | 63.95          | -85.45 | -54.00 | -31.45 | 0.00    | -85.45 |
| 2     | 555.74         | -86.53 | -54.00 | -32.53 | 0.00    | -86.53 |
| 3     | 773.02         | -83.37 | -54.00 | -29.37 | 0.00    | -83.37 |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                      | GFSK/2Mbps | Test Freq. (MHz) | 2402 |
| Test Configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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### 3.5.5 Transmitter Conducted Unwanted Emissions (Above 1GHz)

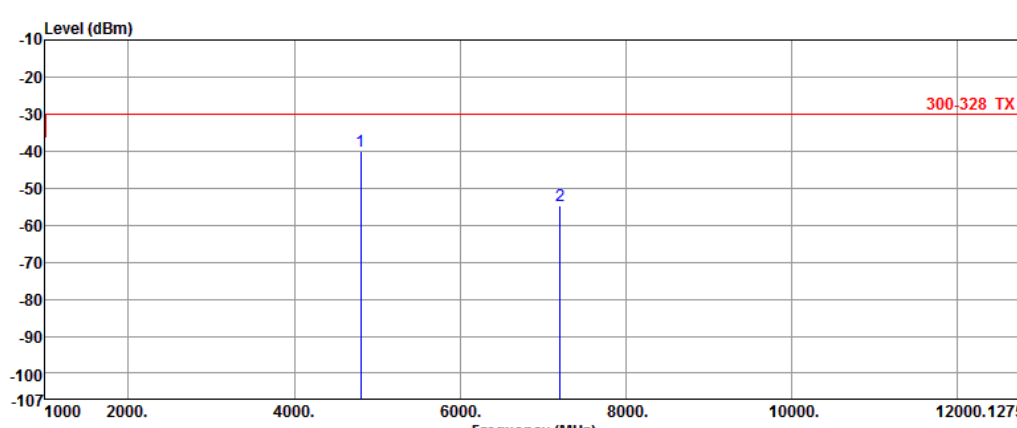
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|            |                  |      |

|                    |            |                  |      |
|--------------------|------------|------------------|------|
| Modulation         | GFSK/1Mbps | Test Freq. (MHz) | 2480 |
| Test Configuration | 4          |                  |      |

Level (dBm)

</

|                    |            |                  |      |
|--------------------|------------|------------------|------|
| Modulation         | GFSK/2Mbps | Test Freq. (MHz) | 2402 |
| Test Configuration | 4          |                  |      |



|   | Freq.   | Measured value | Limit  | Margin | Factor | Reading |
|---|---------|----------------|--------|--------|--------|---------|
|   | MHz     | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 4805.02 | -40.07         | -30.00 | -10.07 | 0.00   | -40.07  |
| 2 | 7204.68 | -54.81         | -30.00 | -24.81 | 0.00   | -54.81  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

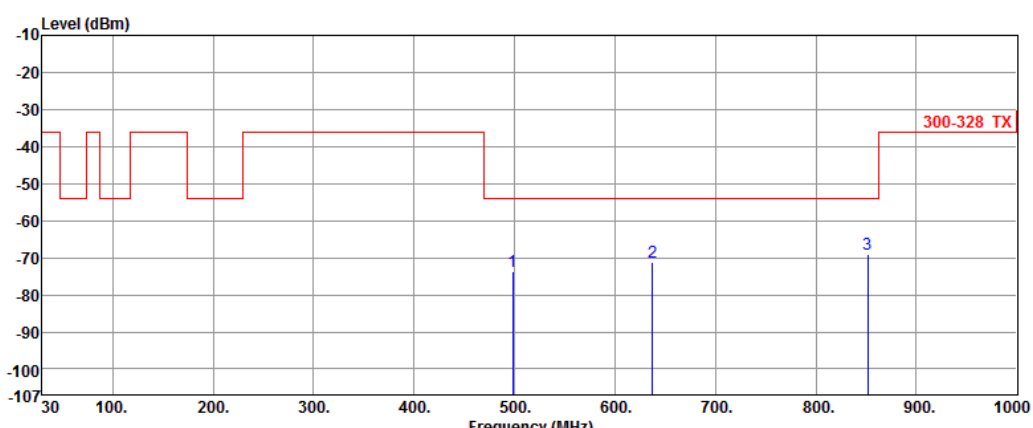
|                    |            |                  |      |
|--------------------|------------|------------------|------|
| Modulation         | GFSK/2Mbps | Test Freq. (MHz) | 2480 |
| Test Configuration | 4          |                  |      |

<

## Configuration 1

### 3.5.6 Transmitter Spurious Unwanted Emissions (Below 1GHz)

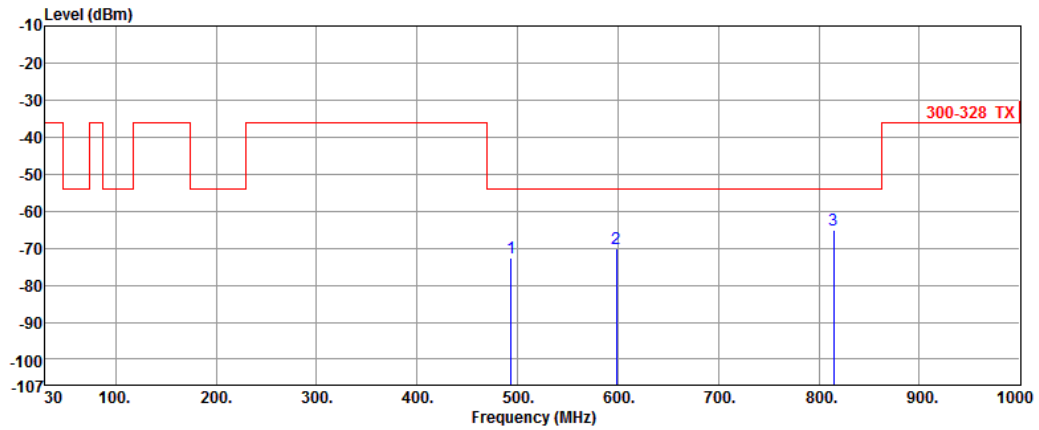
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/1Mbps | Test Freq. (MHz)   | 2402 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | Freq.  | Measured value | Limit  | Margin | Factor | Reading |
|---|--------|----------------|--------|--------|--------|---------|
|   | MHz    | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 498.51 | -73.80         | -54.00 | -19.80 | 3.45   | -77.25  |
| 2 | 637.22 | -71.14         | -54.00 | -17.14 | 6.14   | -77.28  |
| 3 | 851.59 | -69.07         | -54.00 | -15.07 | 9.29   | -78.36  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)  
 Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 1    |

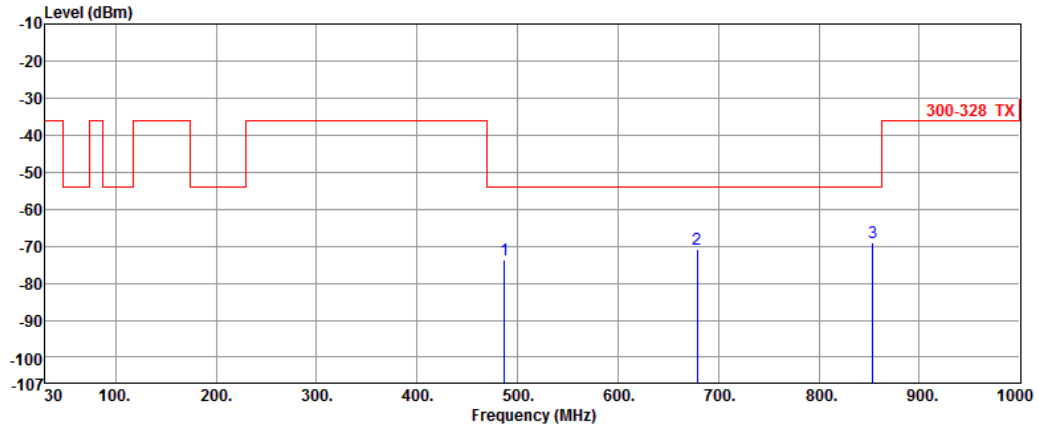


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 493.66 | -72.81            | -54.00 | -18.81 | 3.34   | -76.15  |
| 2 | 598.42 | -70.23            | -54.00 | -16.23 | 5.69   | -75.92  |
| 3 | 814.73 | -65.18            | -54.00 | -11.18 | 8.84   | -74.02  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 1    |

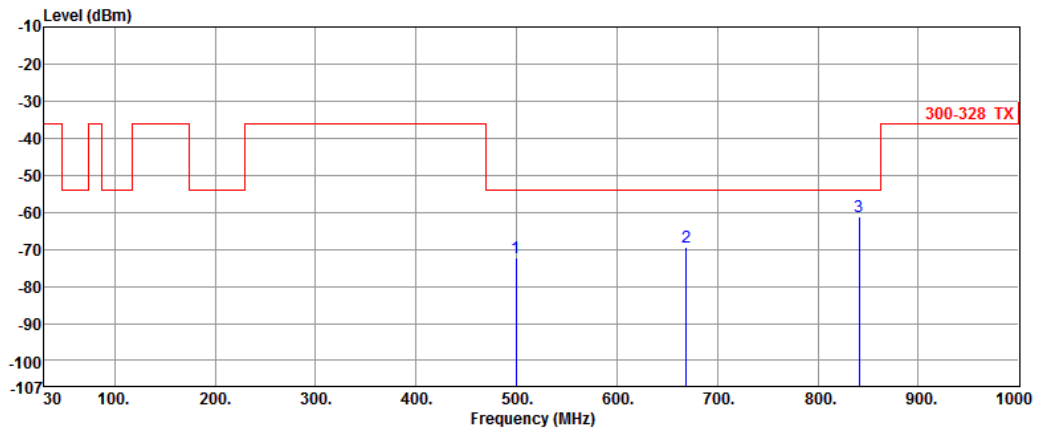


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 486.87 | -73.85            | -54.00 | -19.85 | 3.31   | -77.16  |
| 2 | 678.93 | -70.76            | -54.00 | -16.76 | 6.47   | -77.23  |
| 3 | 853.53 | -68.89            | -54.00 | -14.89 | 9.33   | -78.22  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 1    |

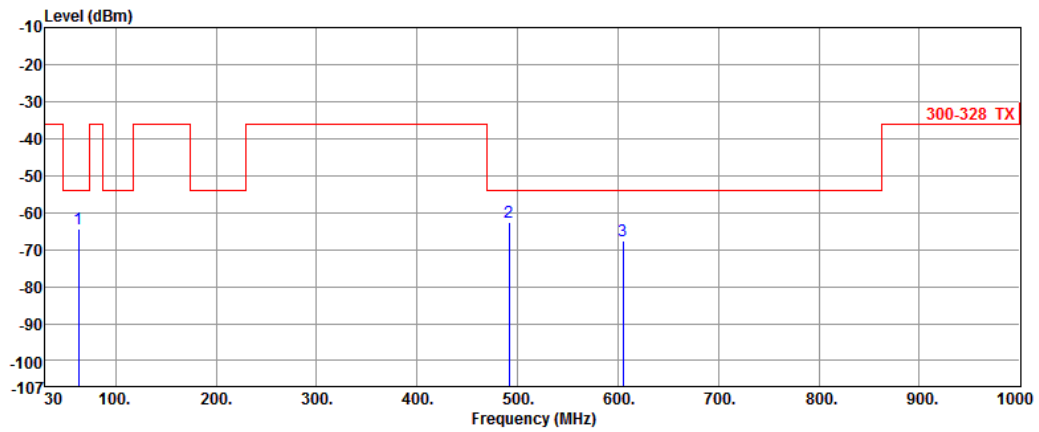


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 499.48 | -72.32            | -54.00 | -18.32 | 3.35   | -75.67  |
| 2 | 669.23 | -69.33            | -54.00 | -15.33 | 6.34   | -75.67  |
| 3 | 840.92 | -61.28            | -54.00 | -7.28  | 9.17   | -70.45  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 1    |

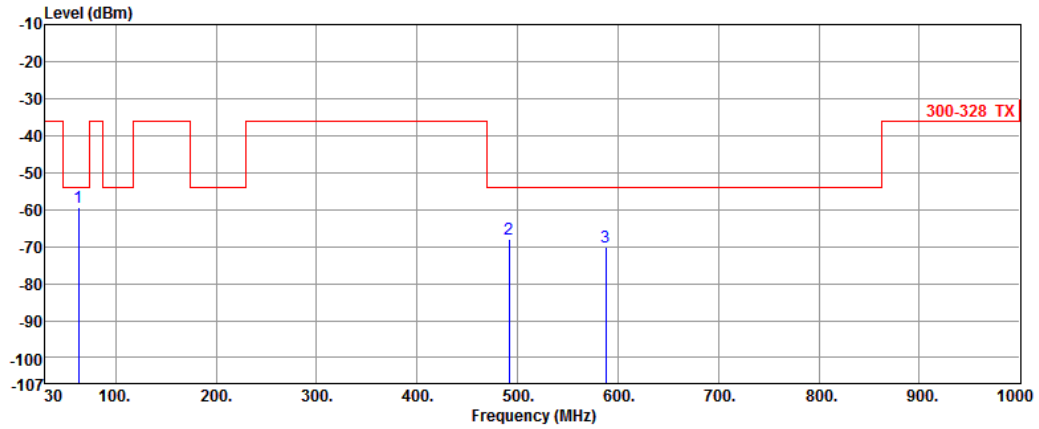


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 62.98  | -64.39            | -54.00 | -10.39 | -2.60  | -61.79  |
| 2 | 491.72 | -62.69            | -54.00 | -8.69  | 2.34   | -65.03  |
| 3 | 605.21 | -67.45            | -54.00 | -13.45 | 8.69   | -76.14  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/2Mbps | Test Freq. (MHz)   | 2402 |
| Polarization | Vertical   | Test Configuration | 1    |

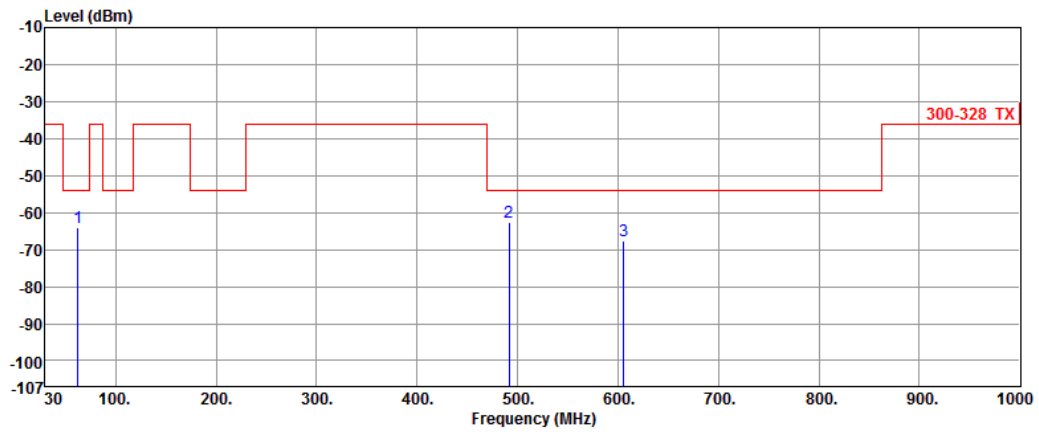


|   | Freq.  | Measured value | Limit  | Margin | Factor | Reading |
|---|--------|----------------|--------|--------|--------|---------|
|   | MHz    | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 62.98  | -59.48         | -54.00 | -5.48  | -2.66  | -56.82  |
| 2 | 491.72 | -67.97         | -54.00 | -13.97 | 2.55   | -70.52  |
| 3 | 587.75 | -70.24         | -54.00 | -16.24 | 4.90   | -75.14  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 1    |

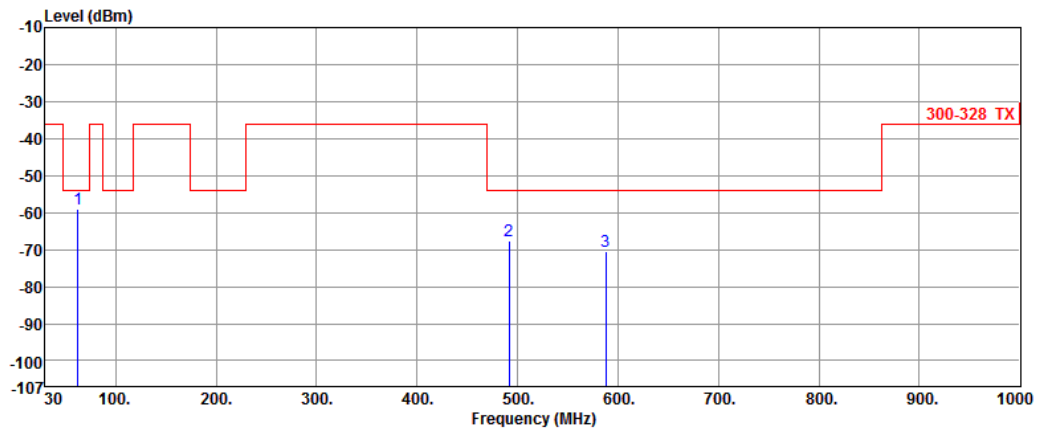


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 62.48  | -64.10            | -54.00 | -10.10 | -2.64  | -61.46  |
| 2 | 491.52 | -62.68            | -54.00 | -8.68  | 2.34   | -65.02  |
| 3 | 605.34 | -67.65            | -54.00 | -13.65 | 8.61   | -76.26  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 1    |



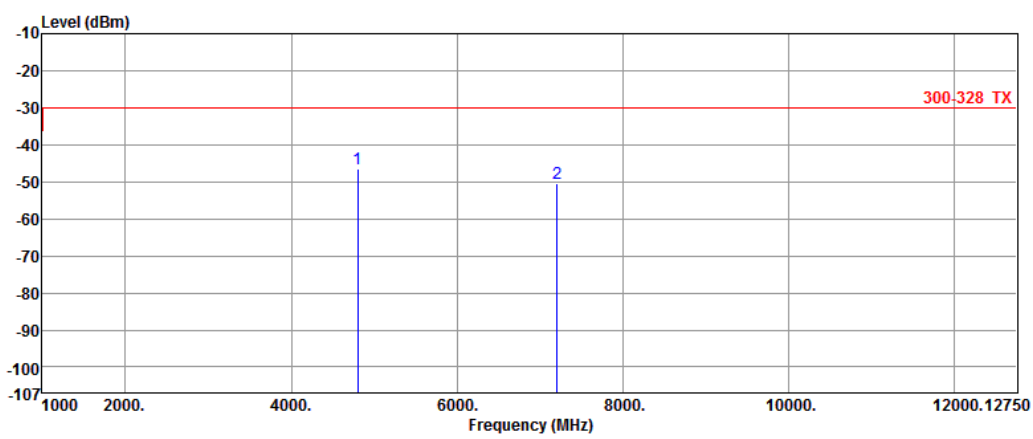
|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 62.28  | -59.05            | -54.00 | -5.05  | -2.58  | -56.47  |
| 2 | 491.46 | -67.56            | -54.00 | -13.56 | 2.54   | -70.10  |
| 3 | 587.79 | -70.55            | -54.00 | -16.55 | 4.90   | -75.45  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

### 3.5.7 Transmitter Spurious Unwanted Emissions (Above 1GHz)

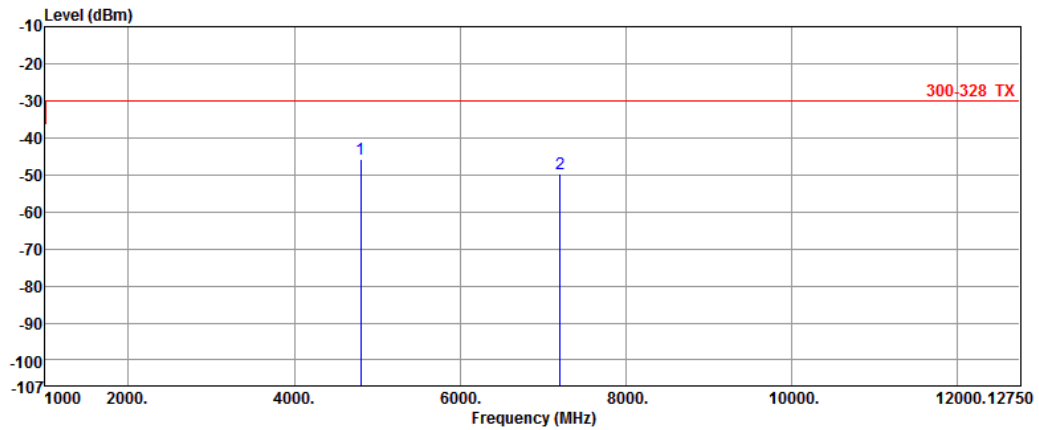
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/1Mbps | Test Freq. (MHz)   | 2402 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | Freq.   | Measured value | Limit  | Margin | Factor | Reading |
|---|---------|----------------|--------|--------|--------|---------|
|   | MHz     | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 4804.11 | -46.35         | -30.00 | -16.35 | 12.67  | -59.02  |
| 2 | 7206.74 | -50.50         | -30.00 | -20.50 | 17.26  | -67.76  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)  
 Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 1    |

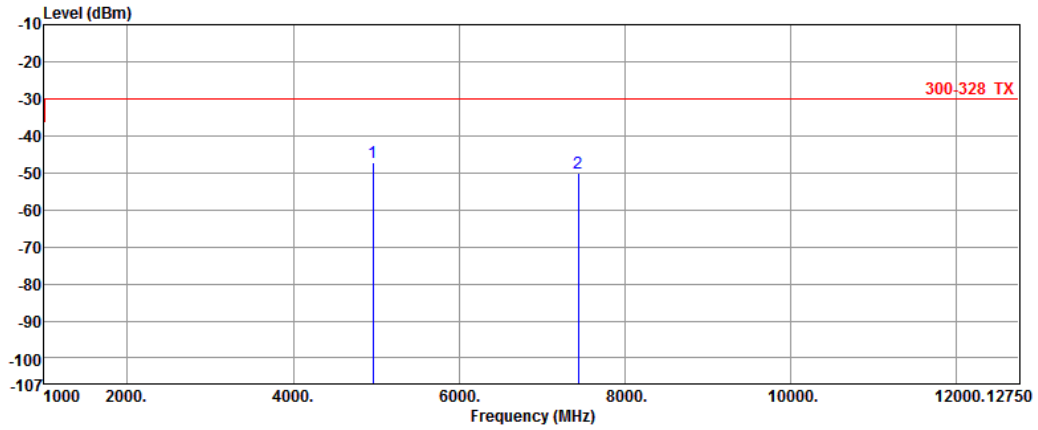


|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4803.83 | -45.86            | -30.00 | -15.86 | 12.66  | -58.52  |
| 2 | 7205.65 | -49.79            | -30.00 | -19.79 | 16.74  | -66.53  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/1Mbps | Test Freq. (MHz)   | 2480 |
| Polarization | Horizontal | Test Configuration | 1    |

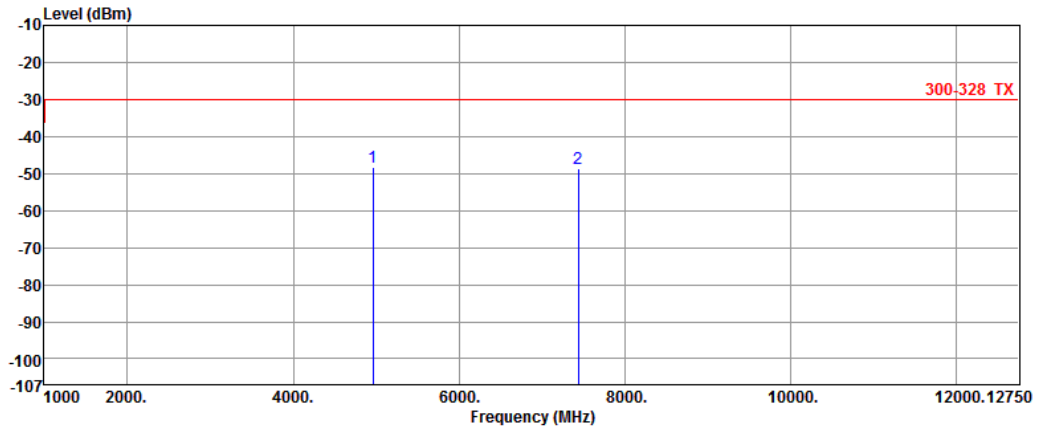


|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4960.11 | -47.34            | -30.00 | -17.34 | 12.60  | -59.94  |
| 2 | 7439.99 | -50.05            | -30.00 | -20.05 | 17.28  | -67.33  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 1    |

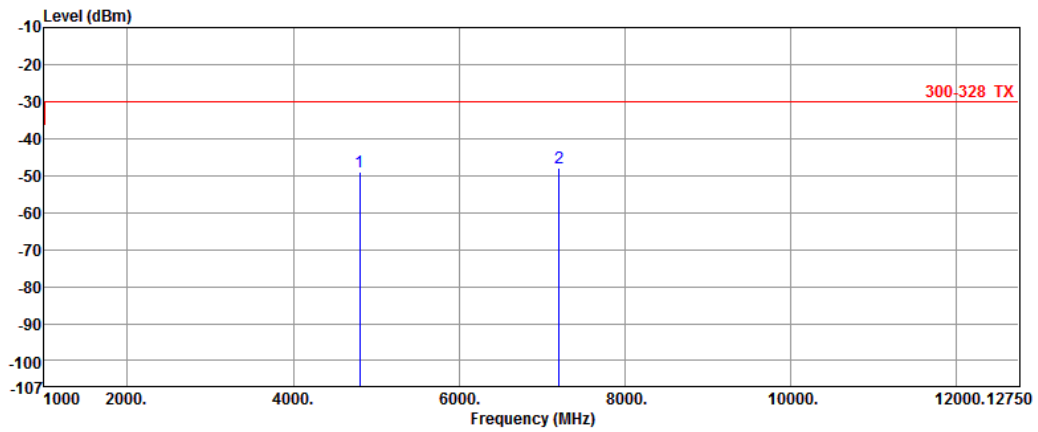


|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4960.01 | -48.24            | -30.00 | -18.24 | 12.93  | -61.17  |
| 2 | 7440.74 | -48.51            | -30.00 | -18.51 | 17.00  | -65.51  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 1    |

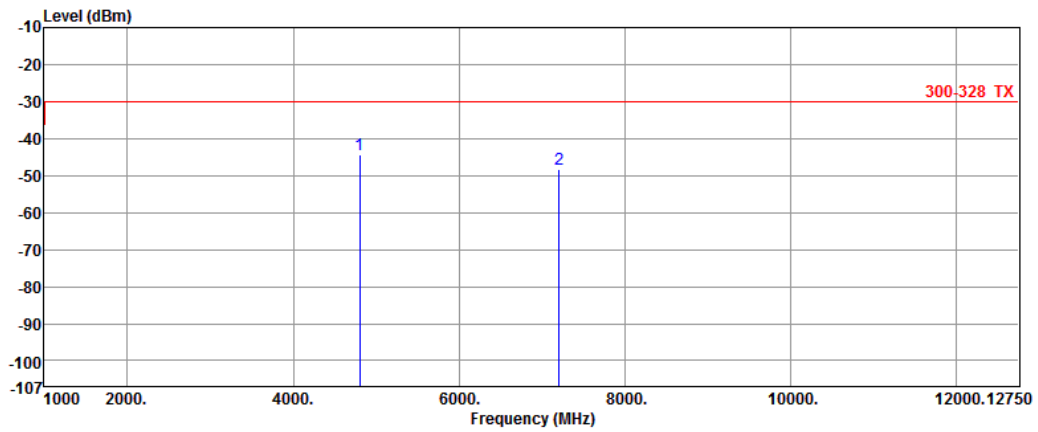


|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4803.85 | -49.02            | -30.00 | -19.02 | 9.11   | -58.13  |
| 2 | 7204.02 | -48.00            | -30.00 | -18.00 | 15.82  | -63.82  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 1    |

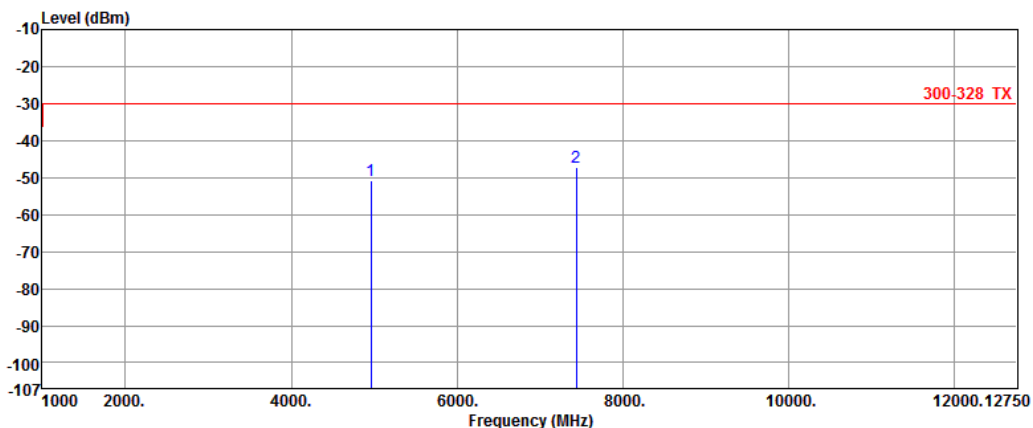


|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4804.05 | -44.44            | -30.00 | -14.44 | 9.42   | -53.86  |
| 2 | 7206.55 | -48.26            | -30.00 | -18.26 | 15.72  | -63.98  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/2Mbps | Test Freq. (MHz)   | 2480 |
| Polarization | Horizontal | Test Configuration | 1    |

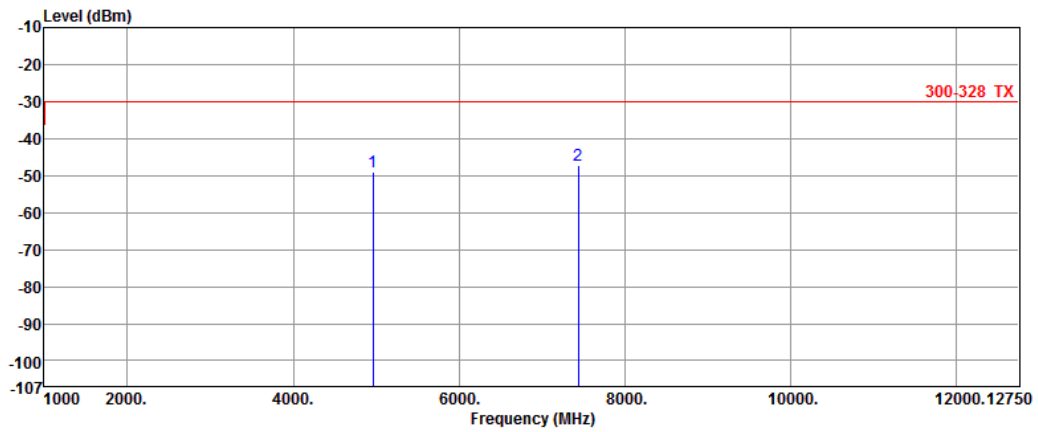
  


|   | Freq.   | Measured value | Limit  | Margin | Factor | Reading |
|---|---------|----------------|--------|--------|--------|---------|
|   | MHz     | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 4959.74 | -50.94         | -30.00 | -20.94 | 10.45  | -61.39  |
| 2 | 7439.33 | -47.08         | -30.00 | -17.08 | 16.22  | -63.30  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)  
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 1    |



|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4959.46 | -48.94            | -30.00 | -18.94 | 10.52  | -59.46  |
| 2 | 7441.49 | -47.33            | -30.00 | -17.33 | 16.25  | -63.58  |

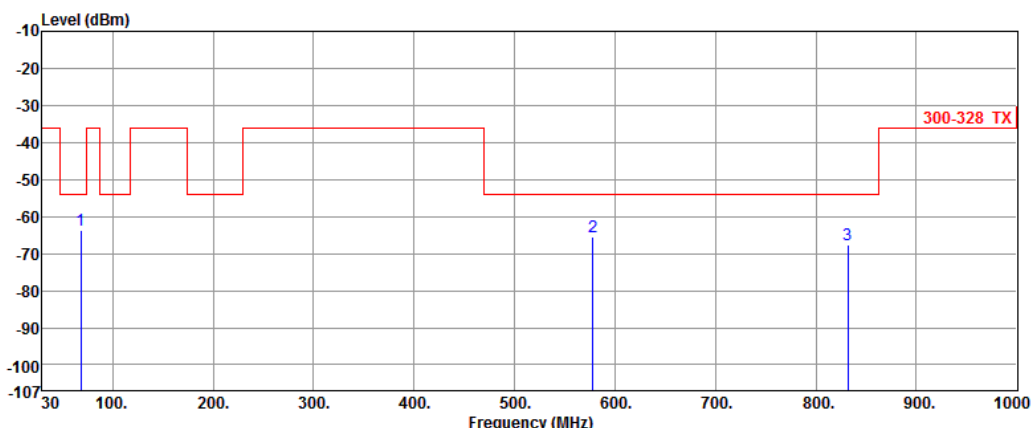
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

## Configuration

### 3.5.8 Transmitter Spurious Unwanted Emissions (Below 1GHz)

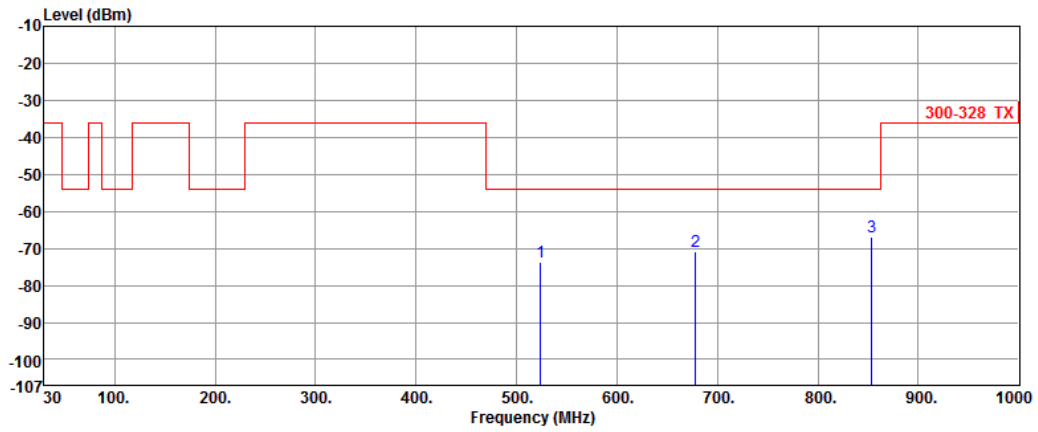
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/1Mbps | Test Freq. (MHz)   | 2402 |
| Polarization | Horizontal | Test Configuration | 4    |

|   | Freq.  | Measured value | Limit  | Margin | Factor | Reading |
|---|--------|----------------|--------|--------|--------|---------|
|   | MHz    | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 68.52  | -63.75         | -54.00 | -9.75  | -4.01  | -59.74  |
| 2 | 577.94 | -65.45         | -54.00 | -11.45 | 5.16   | -70.61  |
| 3 | 832.15 | -67.74         | -54.00 | -13.74 | 9.15   | -76.89  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)  
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |

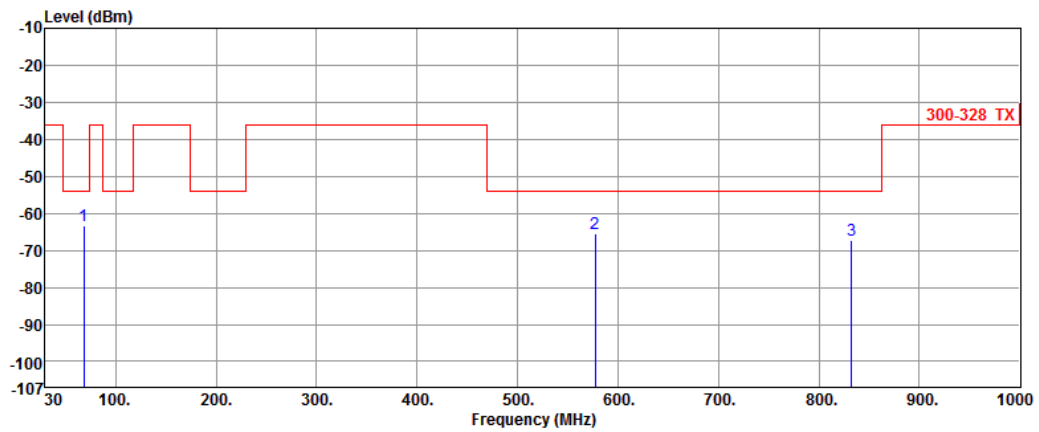


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 523.87 | -73.56            | -54.00 | -19.56 | 3.89   | -77.45  |
| 2 | 678.41 | -70.74            | -54.00 | -16.74 | 6.51   | -77.25  |
| 3 | 853.45 | -66.97            | -54.00 | -12.97 | 9.32   | -76.29  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 4    |

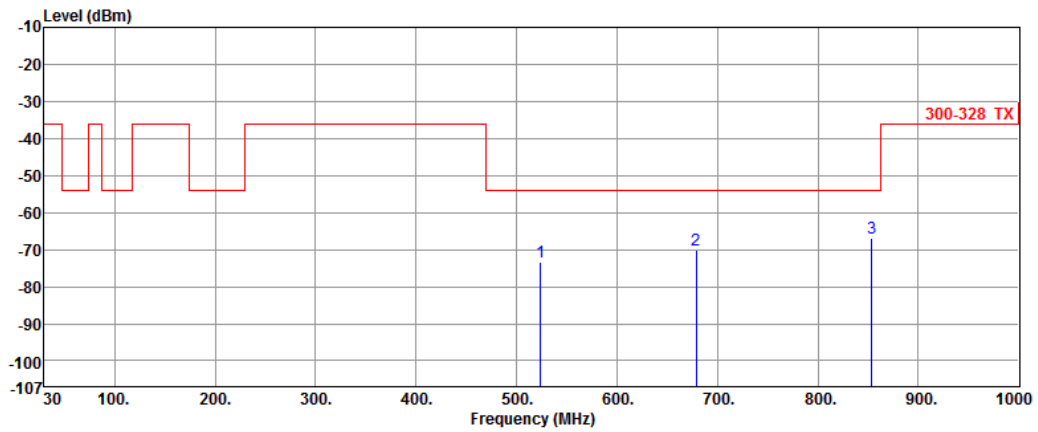


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 68.47  | -63.42            | -54.00 | -9.42  | -4.00  | -59.42  |
| 2 | 577.40 | -65.54            | -54.00 | -11.54 | 5.14   | -70.68  |
| 3 | 832.19 | -67.30            | -54.00 | -13.30 | 9.15   | -76.45  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |

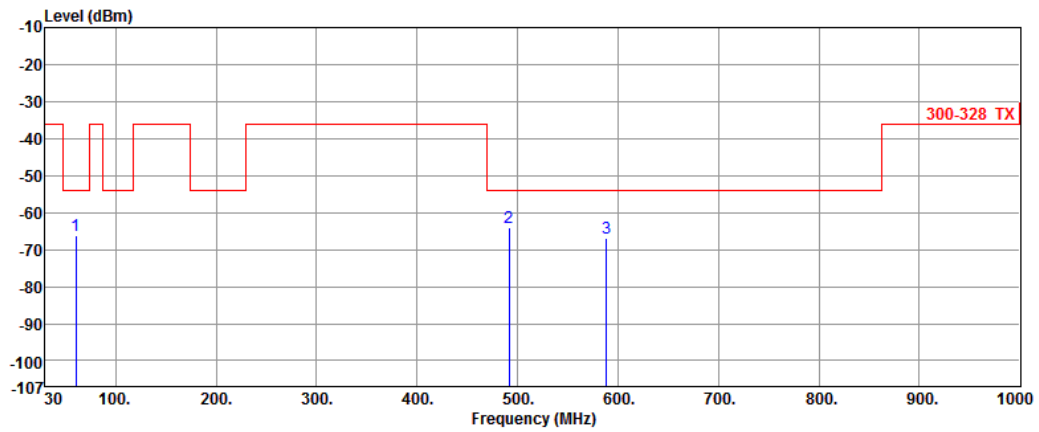


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 523.73 | -73.37            | -54.00 | -19.37 | 3.88   | -77.25  |
| 2 | 678.93 | -70.25            | -54.00 | -16.25 | 6.51   | -76.76  |
| 3 | 853.53 | -66.97            | -54.00 | -12.97 | 9.32   | -76.29  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 4    |

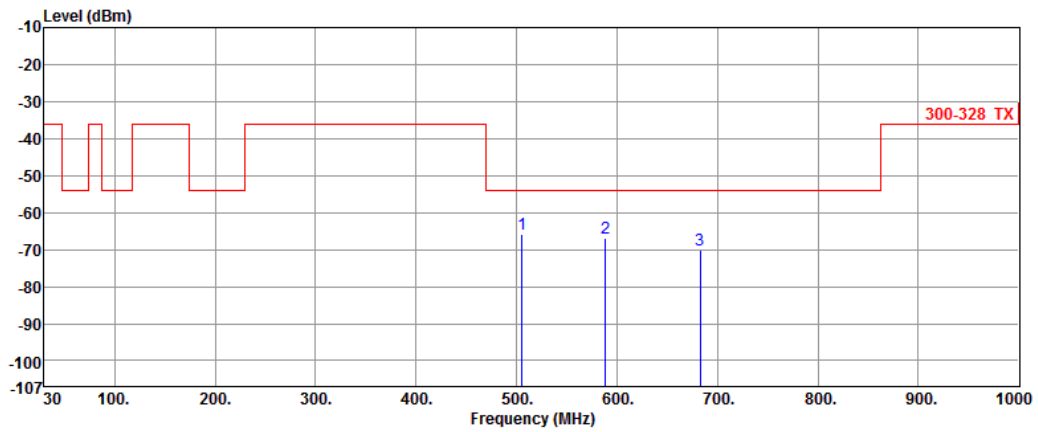


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 60.07  | -66.08            | -54.00 | -12.08 | -2.85  | -63.23  |
| 2 | 491.72 | -63.97            | -54.00 | -9.97  | 2.34   | -66.31  |
| 3 | 588.72 | -67.03            | -54.00 | -13.03 | 4.77   | -71.80  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |

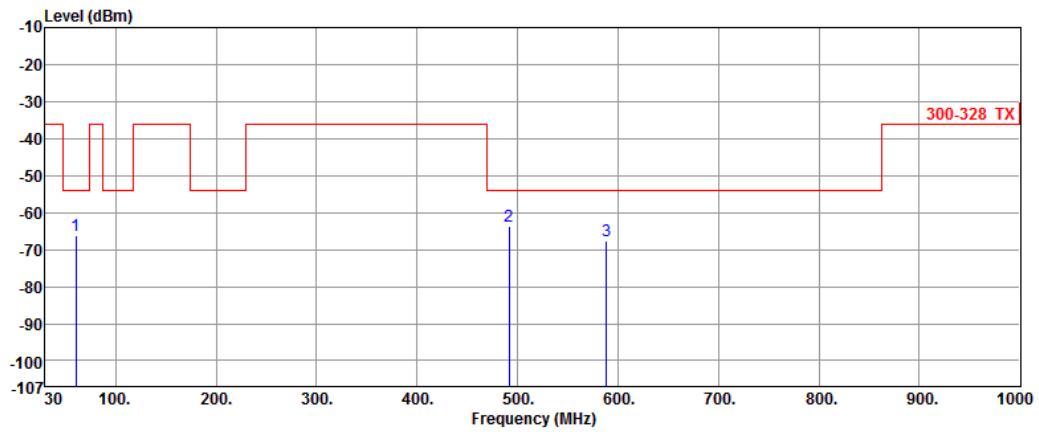


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 505.30 | -65.98            | -54.00 | -11.98 | 3.21   | -69.19  |
| 2 | 588.72 | -66.94            | -54.00 | -12.94 | 4.97   | -71.91  |
| 3 | 682.81 | -70.08            | -54.00 | -16.08 | 6.16   | -76.24  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 4    |

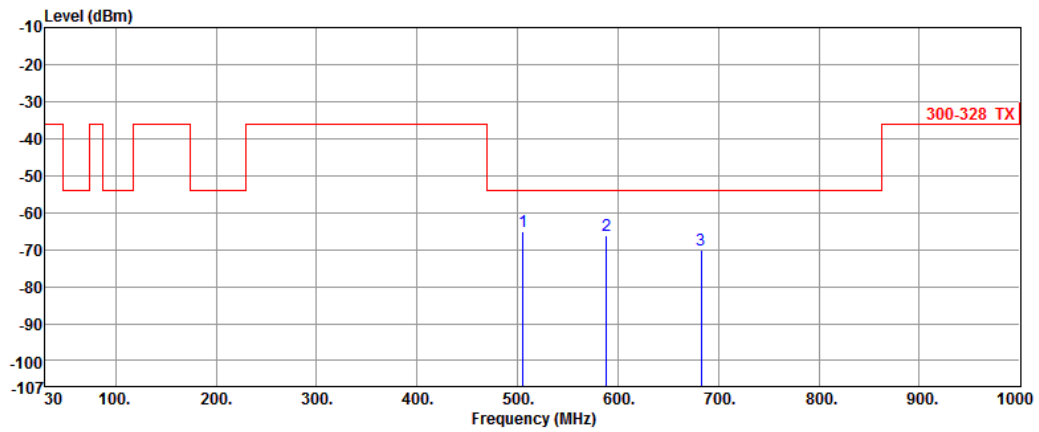


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 60.24  | -66.06            | -54.00 | -12.06 | -2.84  | -63.22  |
| 2 | 491.52 | -63.60            | -54.00 | -9.60  | 2.34   | -65.94  |
| 3 | 588.59 | -67.65            | -54.00 | -13.65 | 4.76   | -72.41  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |



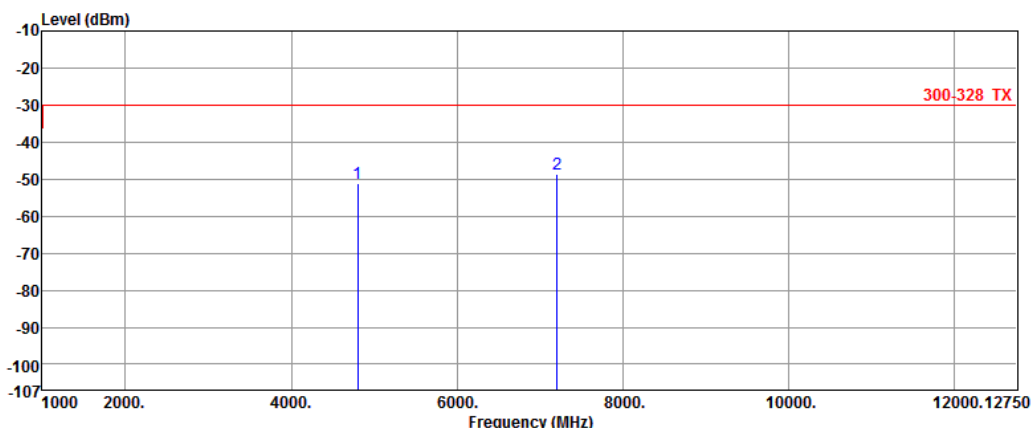
|   | Freq.  | Measured value | Limit  | Margin | Factor | Reading |
|---|--------|----------------|--------|--------|--------|---------|
|   | MHz    | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 505.41 | -65.05         | -54.00 | -11.05 | 3.21   | -68.26  |
| 2 | 588.65 | -66.10         | -54.00 | -12.10 | 4.97   | -71.07  |
| 3 | 682.65 | -70.10         | -54.00 | -16.10 | 6.16   | -76.26  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

### 3.5.9 Transmitter Spurious Unwanted Emissions (Above 1GHz)

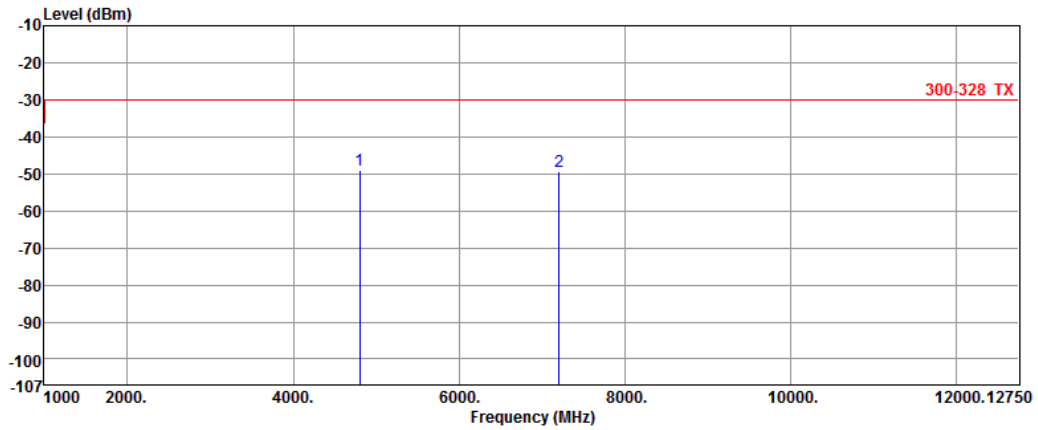
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/1Mbps | Test Freq. (MHz)   | 2402 |
| Polarization | Horizontal | Test Configuration | 4    |

|   | Freq.   | Measured value | Limit  | Margin | Factor | Reading |
|---|---------|----------------|--------|--------|--------|---------|
|   | MHz     | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 4803.89 | -50.98         | -30.00 | -20.98 | 12.67  | -63.65  |
| 2 | 7205.16 | -48.67         | -30.00 | -18.67 | 17.26  | -65.93  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)  
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |

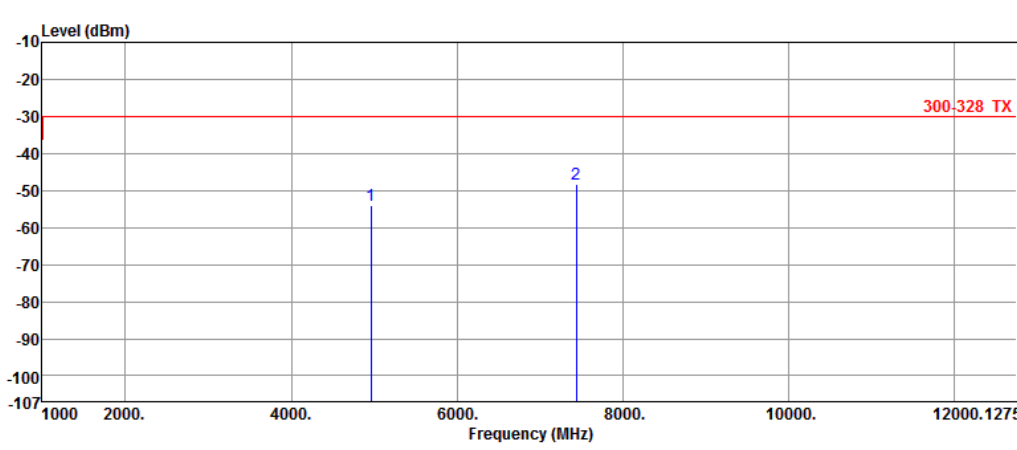


|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4804.67 | -49.10            | -30.00 | -19.10 | 12.66  | -61.76  |
| 2 | 7204.89 | -49.41            | -30.00 | -19.41 | 16.73  | -66.14  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/1Mbps | Test Freq. (MHz)   | 2480 |
| Polarization | Horizontal | Test Configuration | 4    |

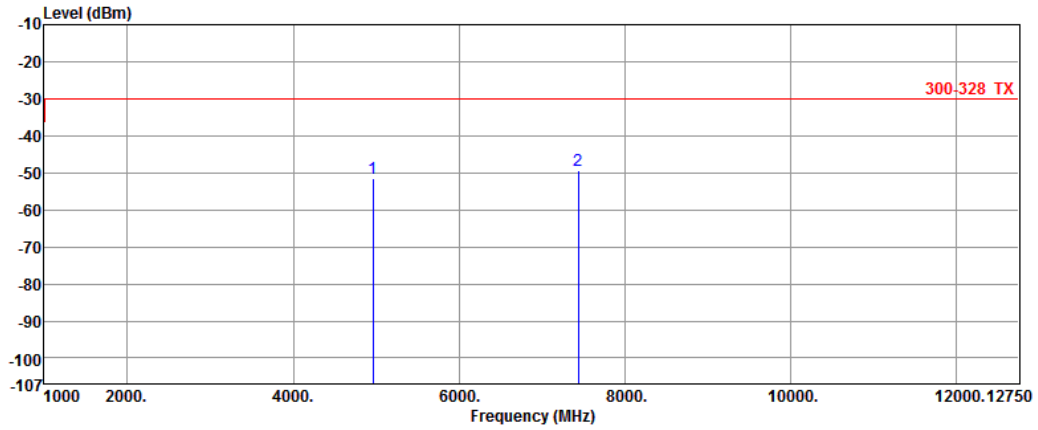
  


|   | Freq.   | Measured value | Limit  | Margin | Factor | Reading |
|---|---------|----------------|--------|--------|--------|---------|
|   | MHz     | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 4960.27 | -54.20         | -30.00 | -24.20 | 12.60  | -66.80  |
| 2 | 7440.87 | -48.25         | -30.00 | -18.25 | 17.28  | -65.53  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)  
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |

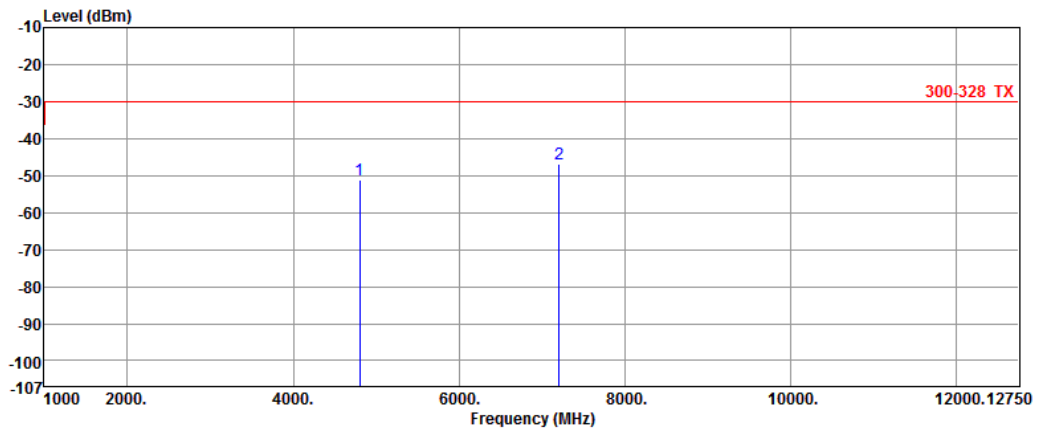


|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4960.08 | -51.50            | -30.00 | -21.50 | 12.93  | -64.43  |
| 2 | 7439.72 | -49.23            | -30.00 | -19.23 | 17.00  | -66.23  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 4    |



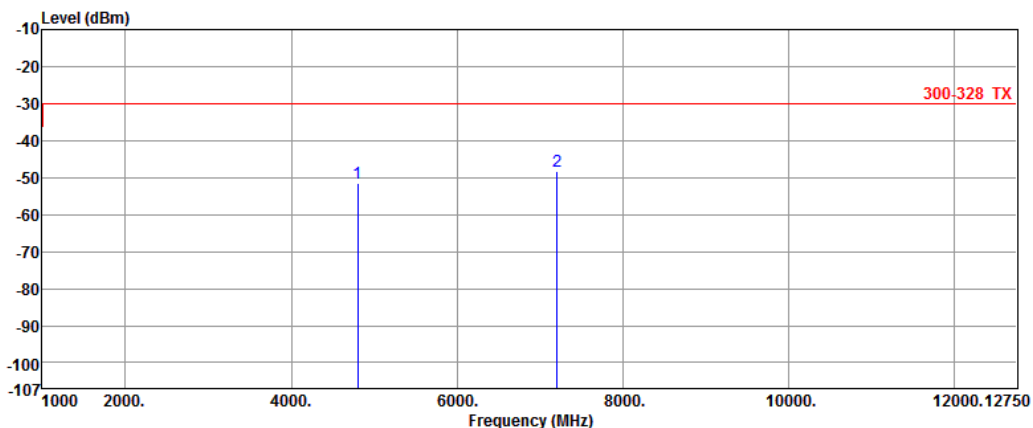
|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4803.88 | -51.11            | -30.00 | -21.11 | 9.11   | -60.22  |
| 2 | 7207.41 | -46.82            | -30.00 | -16.82 | 15.80  | -62.62  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |

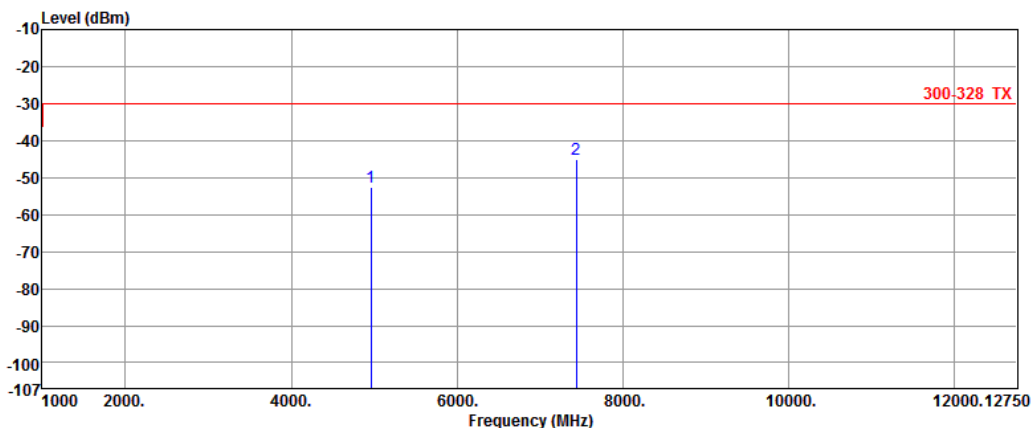
  



|   | Freq.   | Measured value | Limit  | Margin | Factor | Reading |
|---|---------|----------------|--------|--------|--------|---------|
|   | MHz     | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 4804.24 | -51.50         | -30.00 | -21.50 | 9.42   | -60.92  |
| 2 | 7206.17 | -48.19         | -30.00 | -18.19 | 15.72  | -63.91  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)  
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/2Mbps | Test Freq. (MHz)   | 2480 |
| Polarization | Horizontal | Test Configuration | 4    |

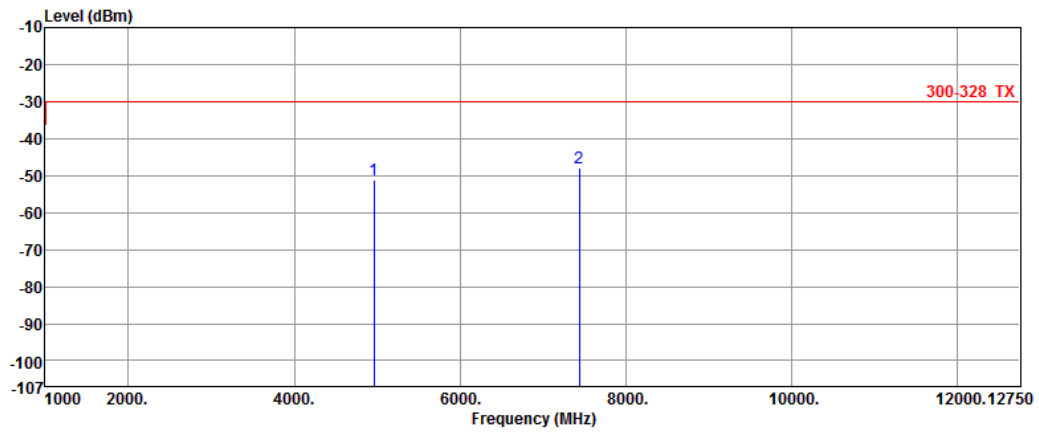
  


|   | Freq.   | Measured value | Limit  | Margin | Factor | Reading |
|---|---------|----------------|--------|--------|--------|---------|
|   | MHz     | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 4959.95 | -52.43         | -30.00 | -22.43 | 10.45  | -62.88  |
| 2 | 7440.15 | -45.20         | -30.00 | -15.20 | 16.22  | -61.42  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)  
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |



|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4959.76 | -51.07            | -30.00 | -21.07 | 10.53  | -61.60  |
| 2 | 7439.79 | -47.99            | -30.00 | -17.99 | 16.26  | -64.25  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

## 4 Receiver Test Results

### 4.1 Receiver Spurious Emissions

#### 4.1.1 Limit of Receiver Spurious Emissions

| Emission Limits          |                     |                             |
|--------------------------|---------------------|-----------------------------|
| Frequency Range          | Maximum power (dBm) | Measurement bandwidth (kHz) |
| 30 MHz to 1 GHz          | -57                 | 100                         |
| Above 1 GHz to 12.75 GHz | -47                 | 1000                        |

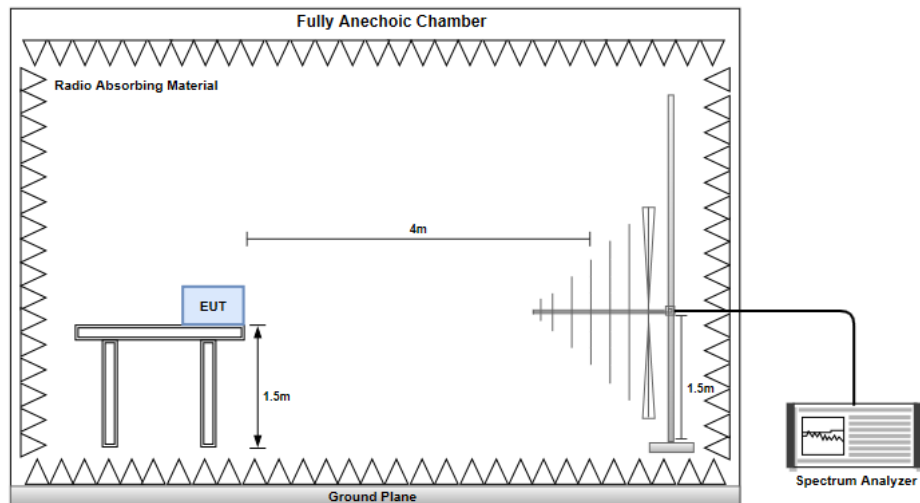
#### 4.1.2 Test Procedures

Reference to clause 5.4.10.2 of ETSI EN 300 328 V2.1.1 (2016-11).

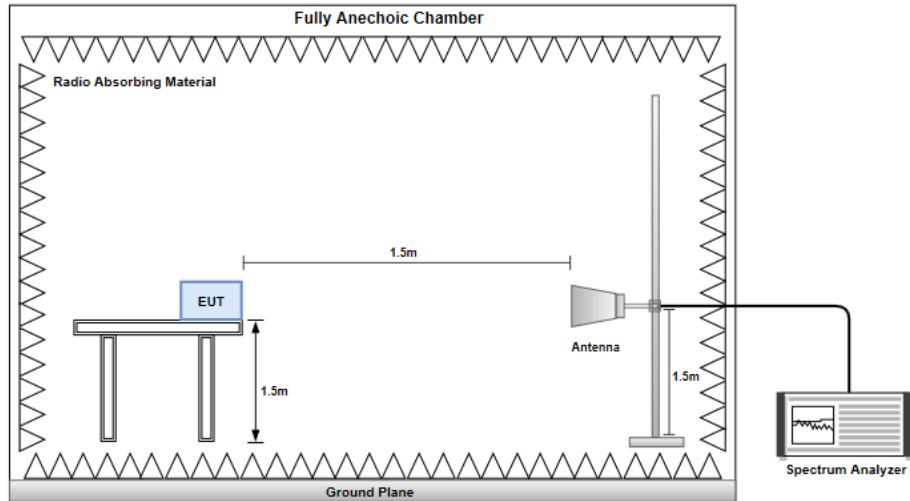
### 4.1.3 Test Setup

#### Radiated Emission

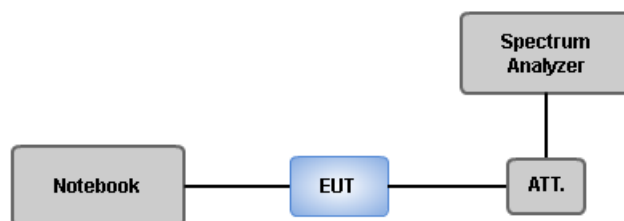
##### Below 1GHz



##### Above 1 GHz



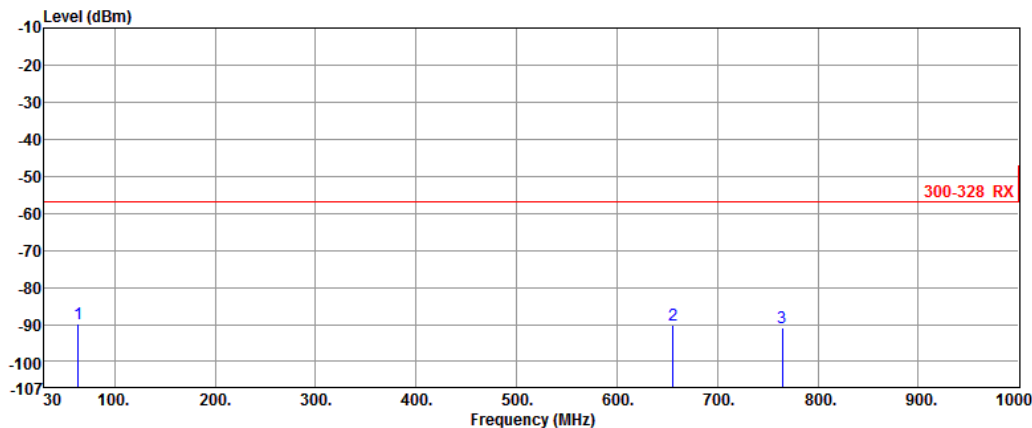
#### Conducted Emission



## Configuration 4

### 4.1.4 Receiver Conducted Unwanted Emissions (Below 1GHz)

|                    |            |                  |      |
|--------------------|------------|------------------|------|
| Modulation         | GFSK/1Mbps | Test Freq. (MHz) | 2402 |
| Test Configuration | 4          |                  |      |



|   | Freq.  | Measured value | Limit  | Margin | Factor | Reading |
|---|--------|----------------|--------|--------|--------|---------|
|   | MHz    | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 63.95  | -89.68         | -57.00 | -32.68 | 0.00   | -89.68  |
| 2 | 655.65 | -90.11         | -57.00 | -33.11 | 0.00   | -90.11  |
| 3 | 764.29 | -90.78         | -57.00 | -33.78 | 0.00   | -90.78  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

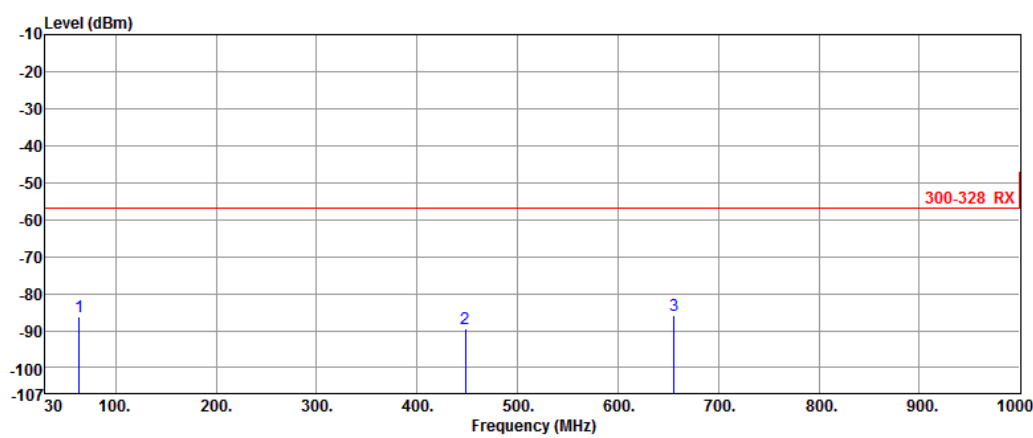
|                    |            |                  |      |
|--------------------|------------|------------------|------|
| Modulation         | GFSK/1Mbps | Test Freq. (MHz) | 2480 |
| Test Configuration | 4          |                  |      |

Level (dBm)

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| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | GFSK/2Mbps | Test Freq. (MHz) | 2402 |
| Test Configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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|                    |            |                  |      |
|--------------------|------------|------------------|------|
| Modulation         | GFSK/2Mbps | Test Freq. (MHz) | 2480 |
| Test Configuration | 4          |                  |      |



|   | Freq.  | Measured value | Limit  | Margin | Factor | Reading |
|---|--------|----------------|--------|--------|--------|---------|
|   | MHz    | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 63.95  | -86.33         | -57.00 | -29.33 | 0.00   | -86.33  |
| 2 | 448.07 | -89.46         | -57.00 | -32.46 | 0.00   | -89.46  |
| 3 | 655.65 | -85.88         | -57.00 | -28.88 | 0.00   | -85.88  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

#### 4.1.5 Receiver Conducted Unwanted Emissions (Above 1GHz)

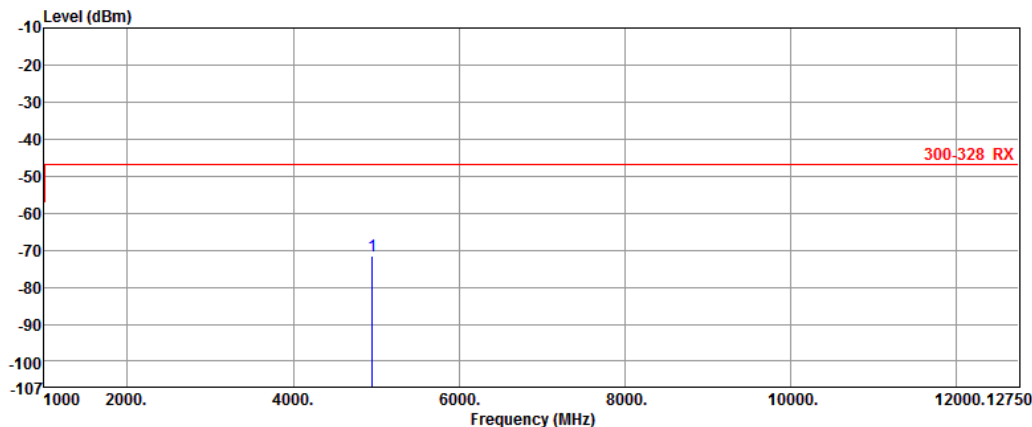
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|            |                  |      |

|                    |            |                  |      |
|--------------------|------------|------------------|------|
| Modulation         | GFSK/2Mbps | Test Freq. (MHz) | 2480 |
| Test Configuration | 4          |                  |      |



|   | Freq.   | Measured value | Limit  | Margin | Factor | Reading |
|---|---------|----------------|--------|--------|--------|---------|
|   | MHz     | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 4956.06 | -71.46         | -47.00 | -24.46 | 0.00   | -71.46  |

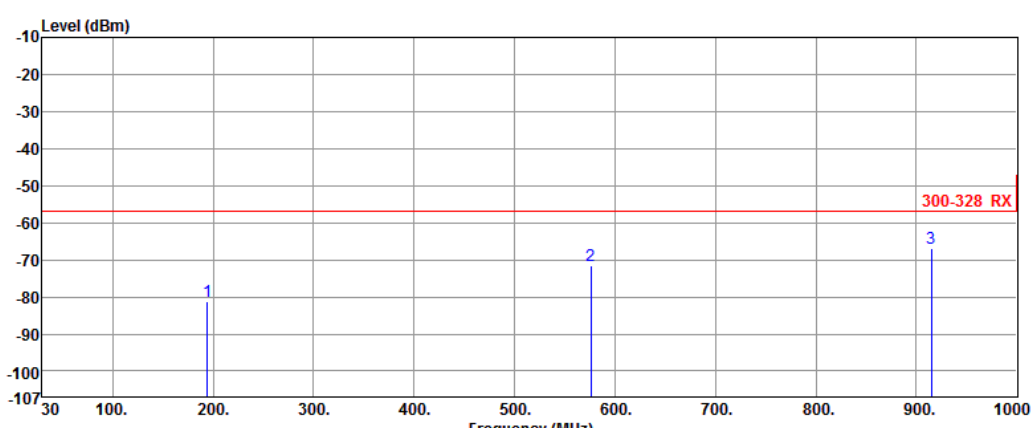
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

## Configuration 1

### 4.1.6 Receiver Spurious Unwanted Emissions (Below 1GHz)

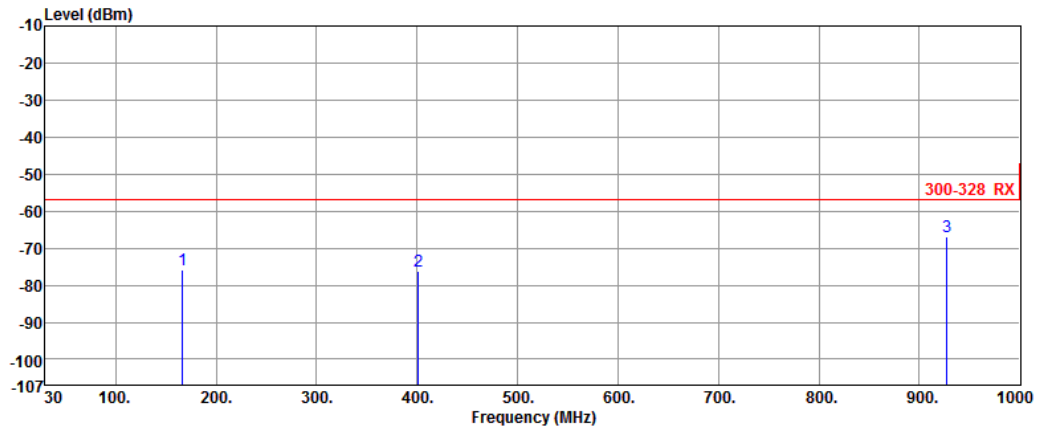
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/1Mbps | Test Freq. (MHz)   | 2402 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | Freq.  | Measured value | Limit  | Margin | Factor | Reading |
|---|--------|----------------|--------|--------|--------|---------|
|   | MHz    | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 193.93 | -81.23         | -57.00 | -24.23 | -5.14  | -76.09  |
| 2 | 576.11 | -71.61         | -57.00 | -14.61 | 5.09   | -76.70  |
| 3 | 914.64 | -66.87         | -57.00 | -9.87  | 10.33  | -77.20  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)  
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/1Mbps | Test Freq. (MHz)   | 2402 |
| Polarization | Vertical   | Test Configuration | 1    |

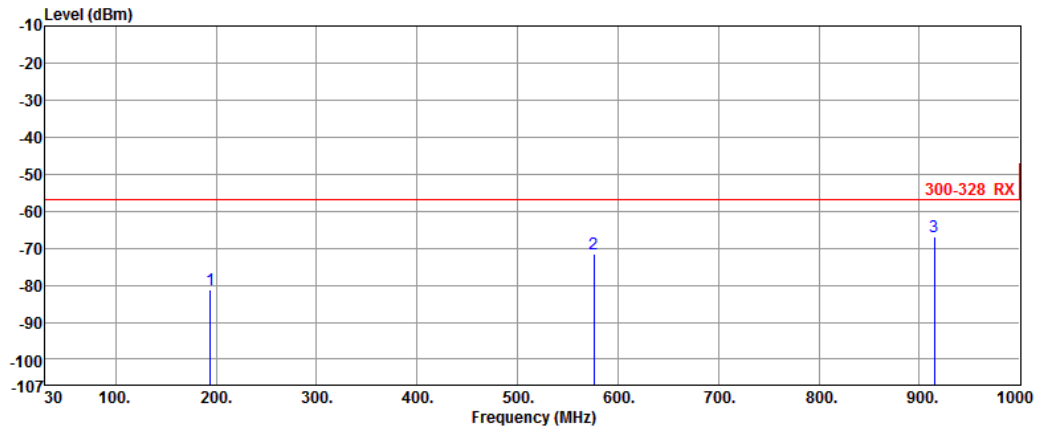


|   | Freq.  | Measured value | Limit  | Margin | Factor | Reading |
|---|--------|----------------|--------|--------|--------|---------|
|   | MHz    | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 166.77 | -75.89         | -57.00 | -18.89 | -1.73  | -74.16  |
| 2 | 401.51 | -76.24         | -57.00 | -19.24 | 1.30   | -77.54  |
| 3 | 927.25 | -66.87         | -57.00 | -9.87  | 10.56  | -77.43  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 1    |

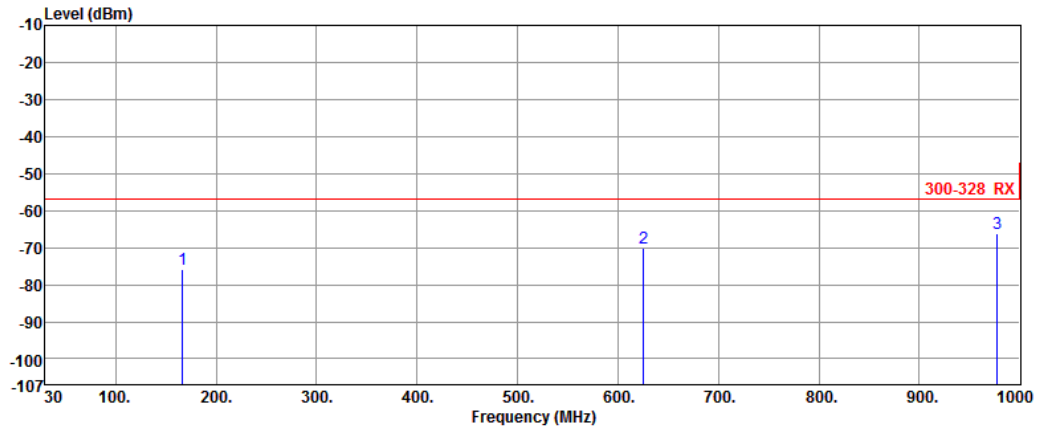


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 193.93 | -81.23            | -57.00 | -24.23 | -5.14  | -76.09  |
| 2 | 576.11 | -71.61            | -57.00 | -14.61 | 5.09   | -76.70  |
| 3 | 914.64 | -66.87            | -57.00 | -9.87  | 10.33  | -77.20  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 1    |



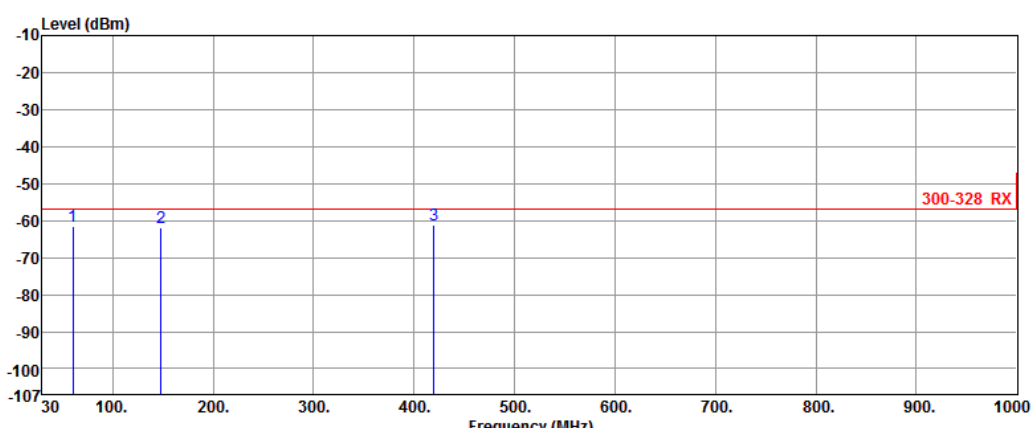
|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 166.77 | -75.89            | -57.00 | -18.89 | -1.73  | -74.16  |
| 2 | 625.58 | -70.28            | -57.00 | -13.28 | 5.94   | -76.22  |
| 3 | 977.69 | -66.20            | -57.00 | -9.20  | 11.04  | -77.24  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 1    |

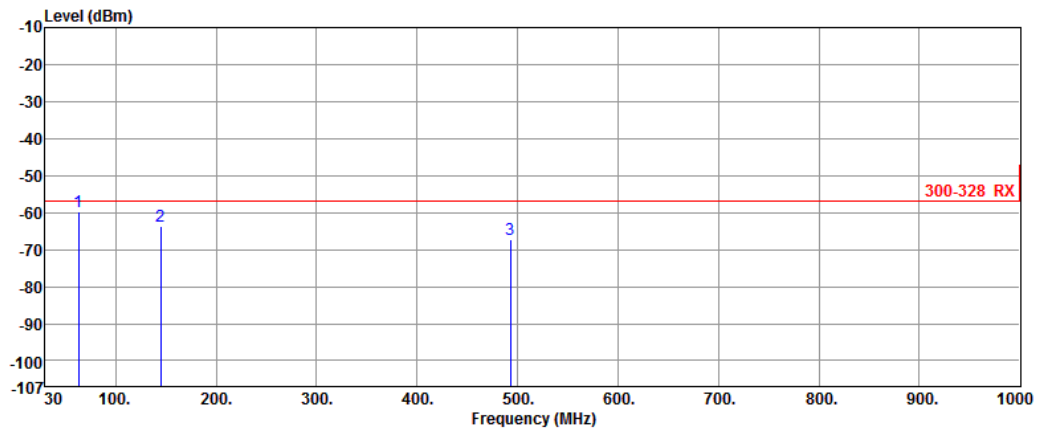
  



|   | Freq.  | Measured value | Limit  | Margin | Factor | Reading |
|---|--------|----------------|--------|--------|--------|---------|
|   | MHz    | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 60.07  | -61.61         | -57.00 | -4.61  | -2.85  | -58.76  |
| 2 | 148.34 | -61.82         | -57.00 | -4.82  | -1.05  | -60.77  |
| 3 | 419.94 | -61.34         | -57.00 | -4.34  | 1.17   | -62.51  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)  
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 1    |

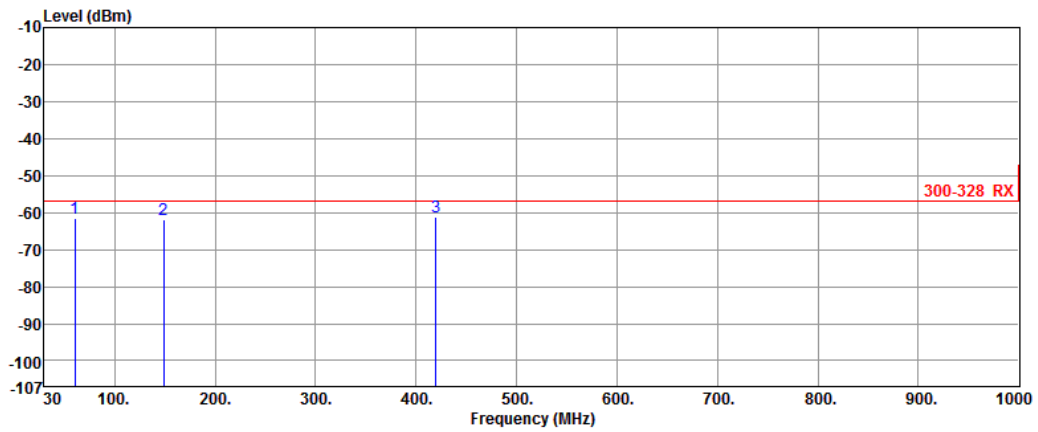


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 62.98  | -59.77            | -57.00 | -2.77  | -2.66  | -57.11  |
| 2 | 144.46 | -63.53            | -57.00 | -6.53  | -0.47  | -63.06  |
| 3 | 492.69 | -67.34            | -57.00 | -10.34 | 2.57   | -69.91  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 1    |

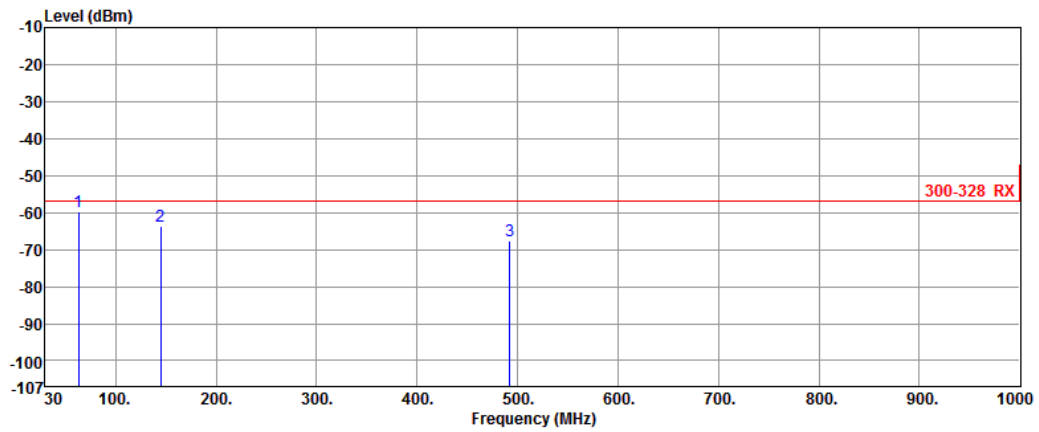


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 60.56  | -61.45            | -57.00 | -4.45  | -2.81  | -58.64  |
| 2 | 148.89 | -61.94            | -57.00 | -4.94  | -0.94  | -61.00  |
| 3 | 419.44 | -61.19            | -57.00 | -4.19  | 1.14   | -62.33  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 1    |



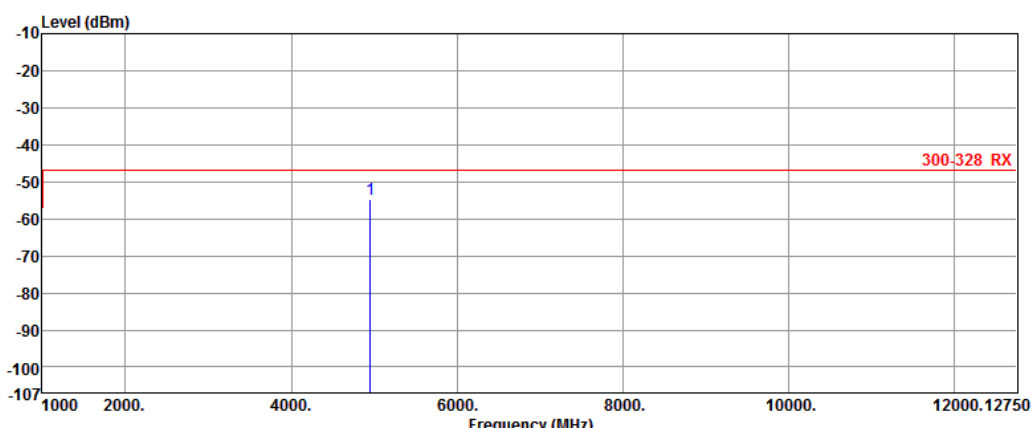
|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 62.82  | -59.66            | -57.00 | -2.66  | -2.64  | -57.02  |
| 2 | 144.78 | -63.55            | -57.00 | -6.55  | -0.47  | -63.08  |
| 3 | 492.33 | -67.71            | -57.00 | -10.71 | 2.56   | -70.27  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

#### 4.1.7 Receiver Spurious Unwanted Emissions (Above 1GHz)

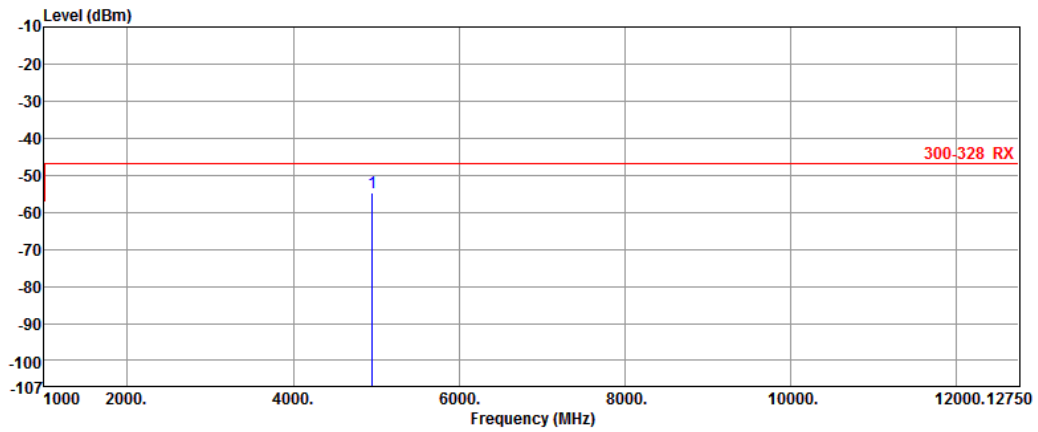
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/1Mbps | Test Freq. (MHz)   | 2402 |
| Polarization | Horizontal | Test Configuration | 1    |

|   | Freq.   | Measured value | Limit  | Margin | Factor | Reading |
|---|---------|----------------|--------|--------|--------|---------|
|   | MHz     | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 4957.76 | -54.81         | -47.00 | -7.81  | 12.60  | -67.41  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)  
 Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/1Mbps | Test Freq. (MHz)   | 2402 |
| Polarization | Vertical   | Test Configuration | 1    |

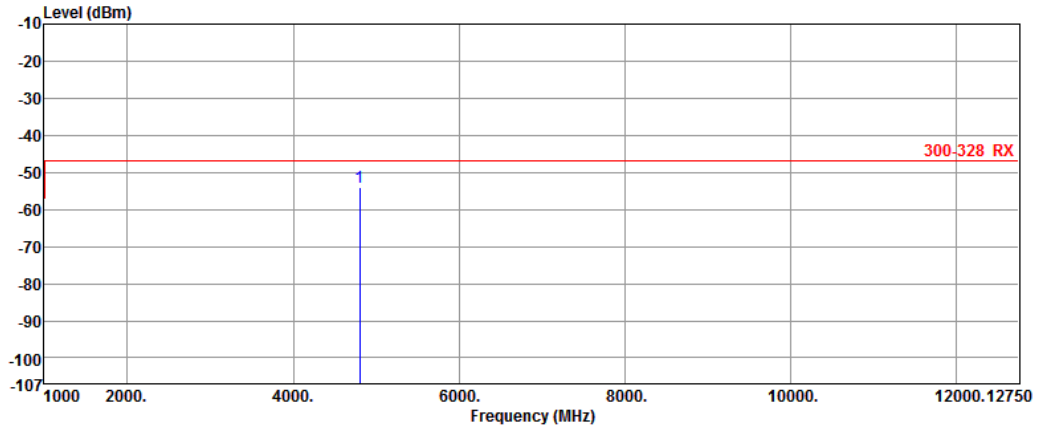


|   | Freq.   | Measured value | Limit  | Margin | Factor | Reading |
|---|---------|----------------|--------|--------|--------|---------|
|   | MHz     | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 4957.88 | -54.84         | -47.00 | -7.84  | 12.92  | -67.76  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 1    |



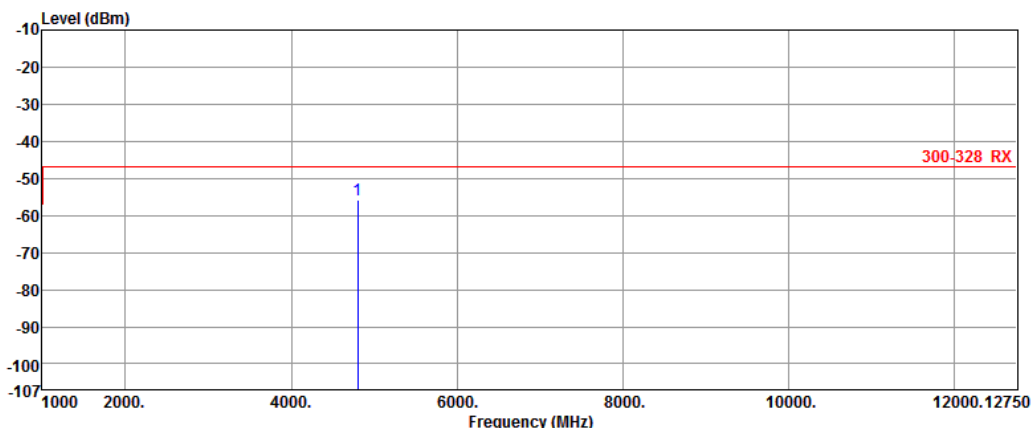
|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4801.87 | -53.94            | -47.00 | -6.94  | 12.68  | -66.62  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/1Mbps | Test Freq. (MHz)   | 2480 |
| Polarization | Vertical   | Test Configuration | 1    |



|   | Freq.   | Measured value | Limit  | Margin | Factor | Reading |
|---|---------|----------------|--------|--------|--------|---------|
|   | MHz     | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 4802.04 | -55.89         | -47.00 | -8.89  | 12.67  | -68.56  |

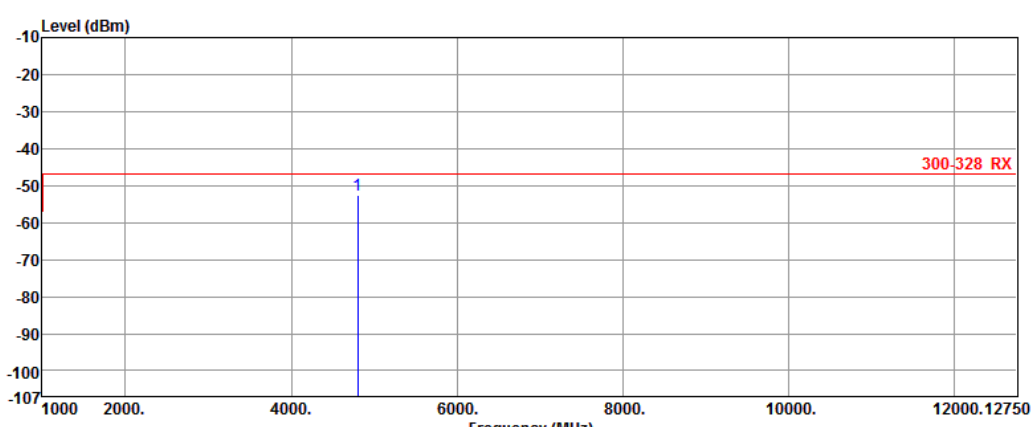
  

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/2Mbps | Test Freq. (MHz)   | 2402 |
| Polarization | Horizontal | Test Configuration | 1    |



|   | Freq.   | Measured value | Limit  | Margin | Factor | Reading |
|---|---------|----------------|--------|--------|--------|---------|
|   | MHz     | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 4799.93 | -52.76         | -47.00 | -5.76  | 9.09   | -61.85  |

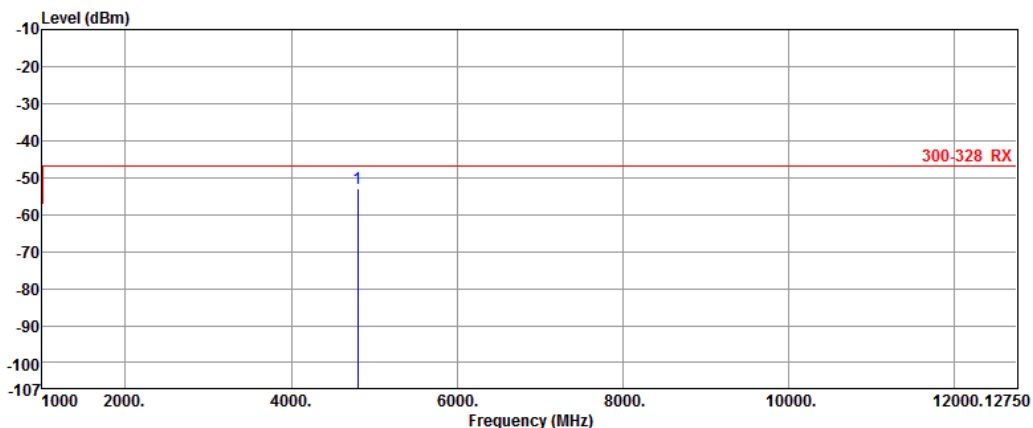
  

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/2Mbps | Test Freq. (MHz)   | 2402 |
| Polarization | Vertical   | Test Configuration | 1    |



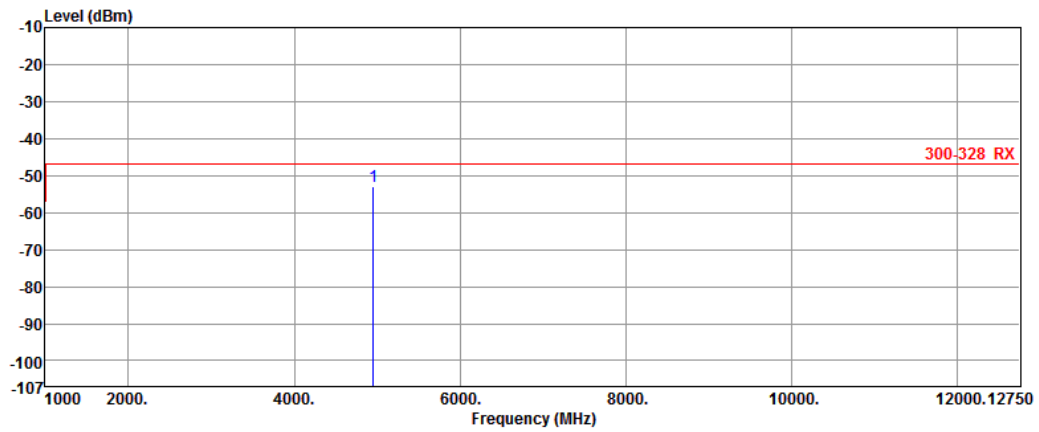
| Freq.     | Measured value | Limit  | Margin | Factor | Reading |
|-----------|----------------|--------|--------|--------|---------|
| MHz       | dBm            | dBm    | dB     | dB     | dBm     |
| 1 4800.04 | -53.00         | -47.00 | -6.00  | 9.40   | -62.40  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 1    |

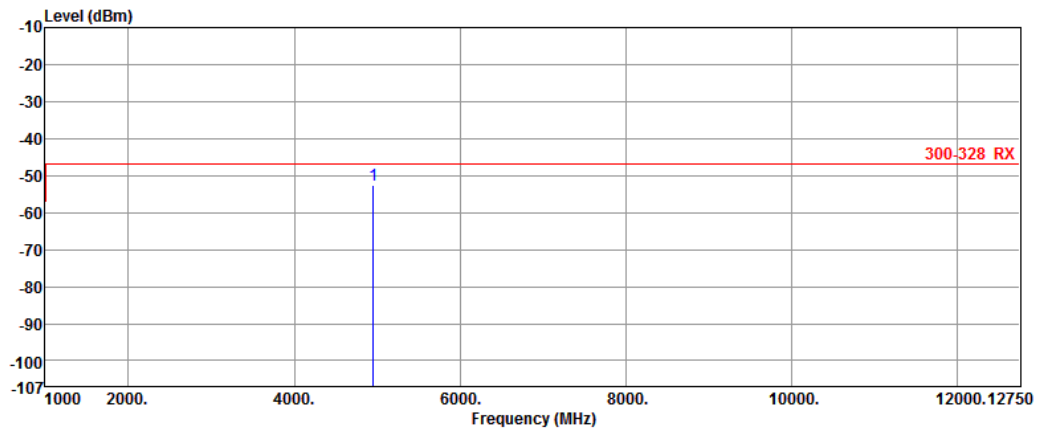


|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4956.05 | -52.79            | -47.00 | -5.79  | 10.38  | -63.17  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 1    |



|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4956.05 | -52.74            | -47.00 | -5.74  | 10.46  | -63.20  |

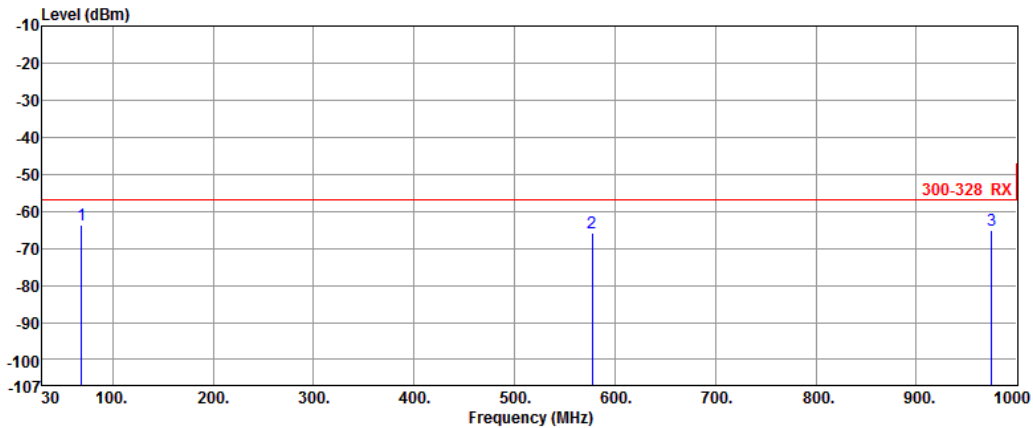
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

## Configuration 4

### 4.1.8 Receiver Spurious Unwanted Emissions (Below 1GHz)

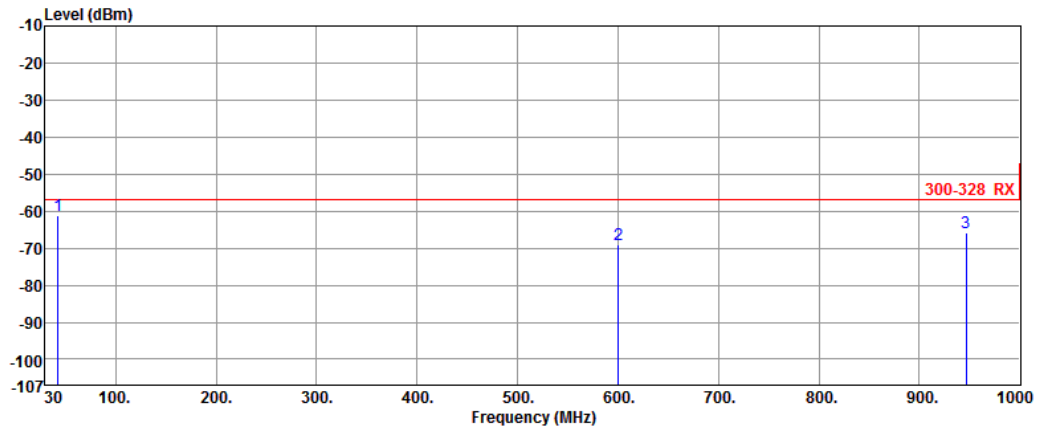
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/1Mbps | Test Freq. (MHz)   | 2402 |
| Polarization | Horizontal | Test Configuration | 4    |

|   | Freq.  | Measured value | Limit  | Margin | Factor | Reading |
|---|--------|----------------|--------|--------|--------|---------|
|   | MHz    | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 68.80  | -63.80         | -57.00 | -6.80  | -4.05  | -59.75  |
| 2 | 577.08 | -65.75         | -57.00 | -8.75  | 5.13   | -70.88  |
| 3 | 974.78 | -65.25         | -57.00 | -8.25  | 11.05  | -76.30  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)  
 Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |

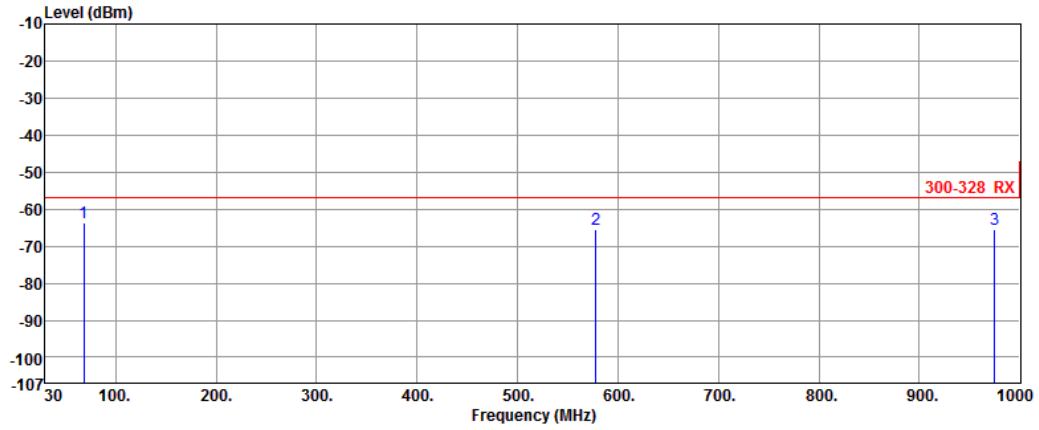


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 42.61  | -61.28            | -57.00 | -4.28  | -0.88  | -60.40  |
| 2 | 600.36 | -69.18            | -57.00 | -12.18 | 5.72   | -74.90  |
| 3 | 946.65 | -65.86            | -57.00 | -8.86  | 10.71  | -76.57  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 4    |

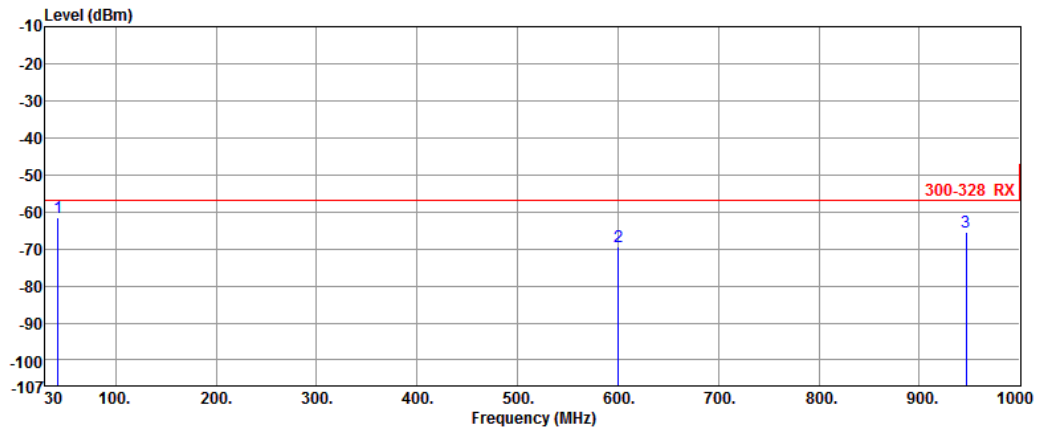


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 68.51  | -63.54            | -57.00 | -6.54  | -4.01  | -59.53  |
| 2 | 577.65 | -65.65            | -57.00 | -8.65  | 5.15   | -70.80  |
| 3 | 974.84 | -65.54            | -57.00 | -8.54  | 11.06  | -76.60  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |

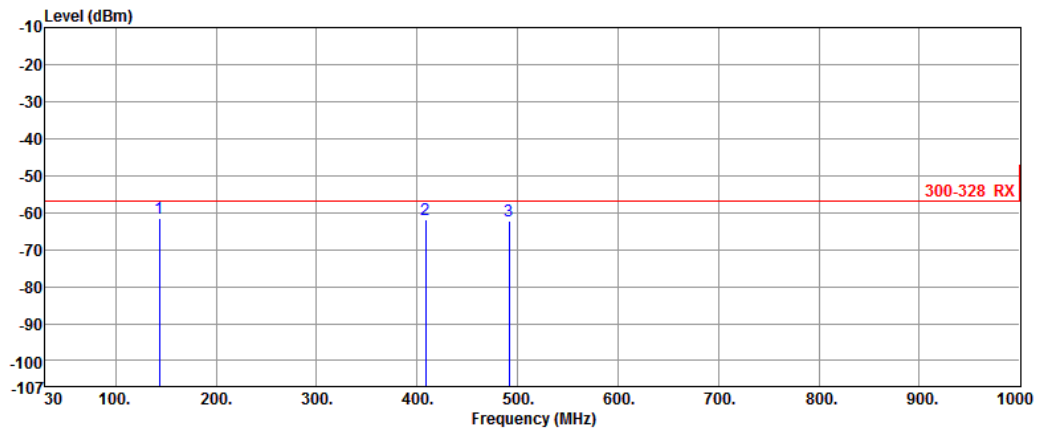


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 42.40  | -61.63            | -57.00 | -4.63  | -0.98  | -60.65  |
| 2 | 600.45 | -69.58            | -57.00 | -12.58 | 5.73   | -75.31  |
| 3 | 946.79 | -65.65            | -57.00 | -8.65  | 10.71  | -76.36  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 4    |

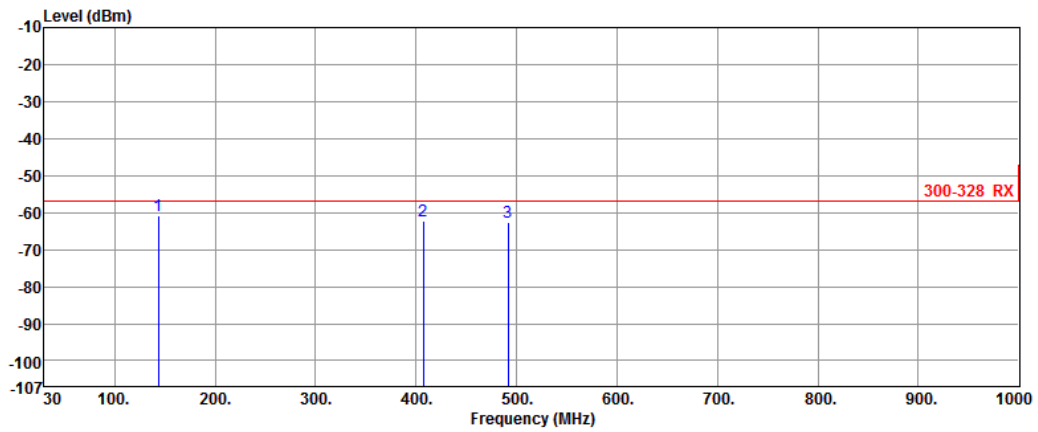


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 143.49 | -61.44            | -57.00 | -4.44  | -1.75  | -59.69  |
| 2 | 408.30 | -61.76            | -57.00 | -4.76  | 0.55   | -62.31  |
| 3 | 491.72 | -62.15            | -57.00 | -5.15  | 2.34   | -64.49  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |

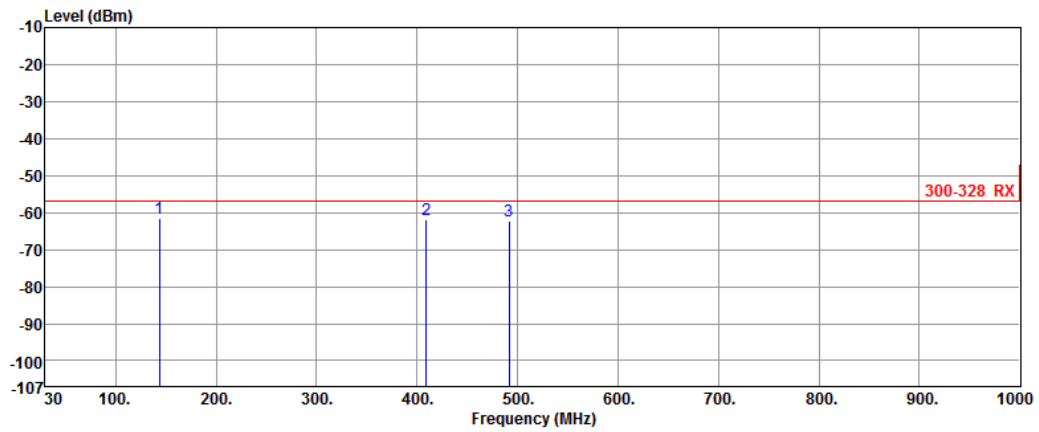


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 143.49 | -60.94            | -57.00 | -3.94  | -0.48  | -60.46  |
| 2 | 407.33 | -62.35            | -57.00 | -5.35  | 0.60   | -62.95  |
| 3 | 491.72 | -62.67            | -57.00 | -5.67  | 2.55   | -65.22  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 4    |

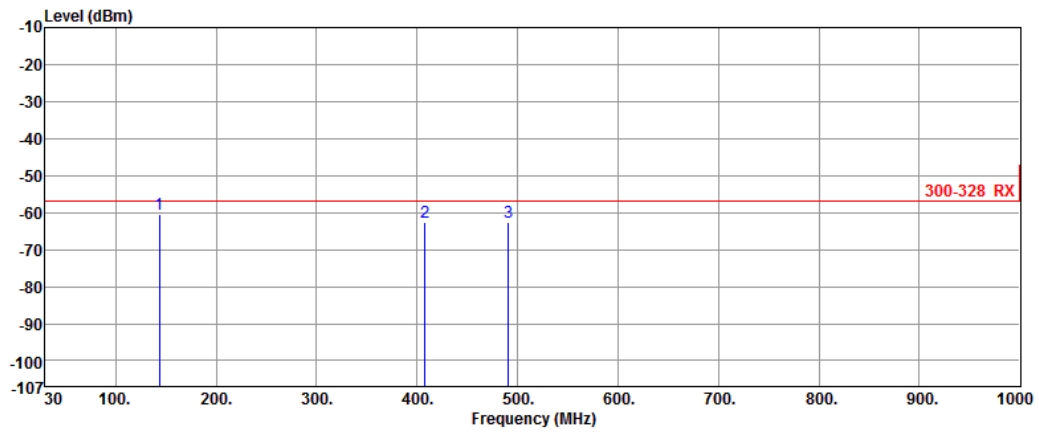


|   | Freq.  | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|--------|-------------------|--------|--------|--------|---------|
|   | MHz    | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 143.46 | -61.51            | -57.00 | -4.51  | -1.75  | -59.76  |
| 2 | 408.89 | -61.95            | -57.00 | -4.95  | 0.56   | -62.51  |
| 3 | 491.41 | -62.33            | -57.00 | -5.33  | 2.34   | -64.67  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |



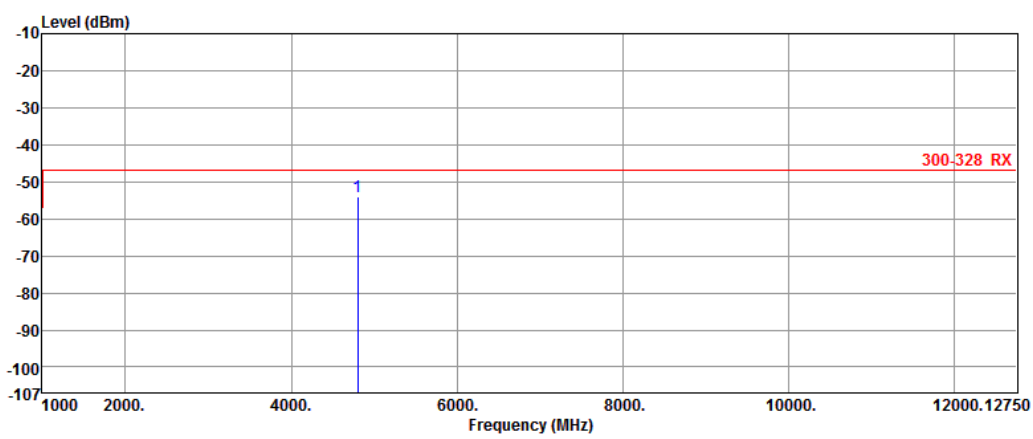
|   | Freq.  | Measured value | Limit  | Margin | Factor | Reading |
|---|--------|----------------|--------|--------|--------|---------|
|   | MHz    | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 143.66 | -60.35         | -57.00 | -3.35  | -0.48  | -59.87  |
| 2 | 407.81 | -62.50         | -57.00 | -5.50  | 0.60   | -63.10  |
| 3 | 491.10 | -62.66         | -57.00 | -5.66  | 2.53   | -65.19  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

#### 4.1.9 Receiver Spurious Unwanted Emissions (Above 1GHz)

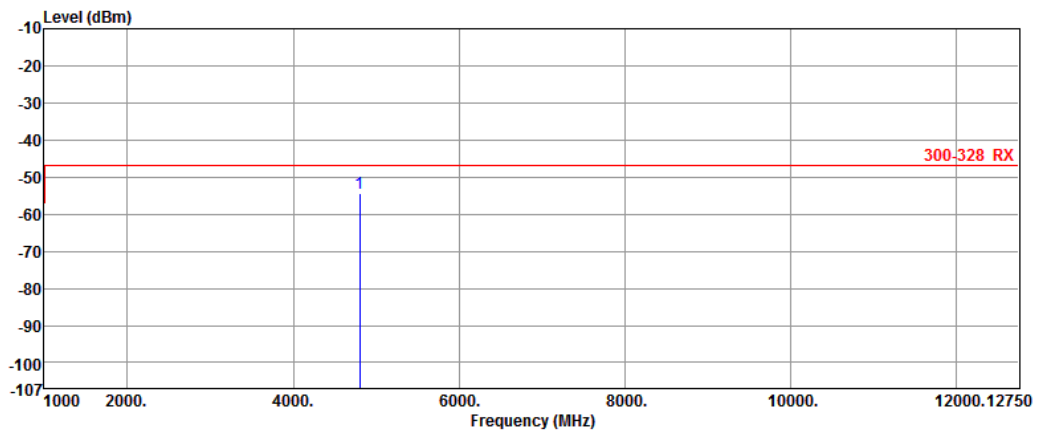
|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/1Mbps | Test Freq. (MHz)   | 2402 |
| Polarization | Horizontal | Test Configuration | 4    |

|   | Freq.   | Measured value | Limit  | Margin | Factor | Reading |
|---|---------|----------------|--------|--------|--------|---------|
|   | MHz     | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 4801.90 | -54.05         | -47.00 | -7.05  | 12.68  | -66.73  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)  
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |



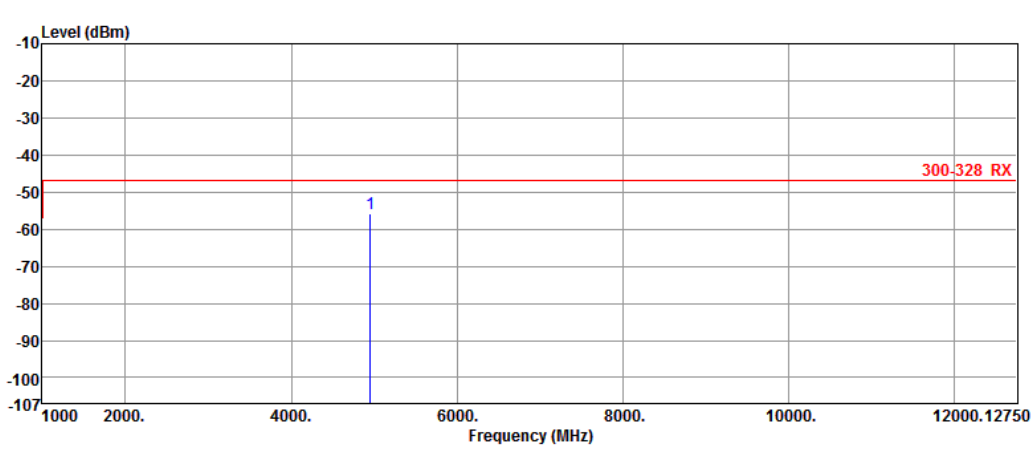
|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4801.90 | -54.33            | -47.00 | -7.33  | 12.67  | -67.00  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/1Mbps | Test Freq. (MHz)   | 2480 |
| Polarization | Horizontal | Test Configuration | 4    |



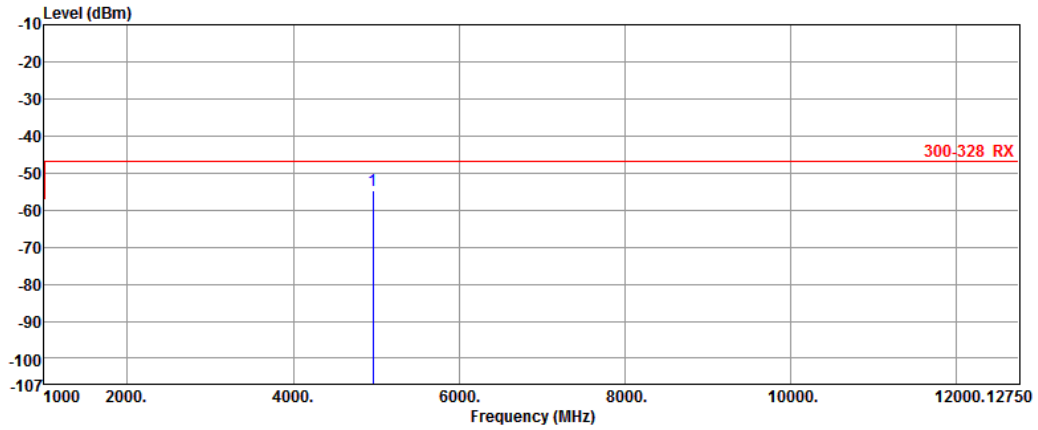
|   | Freq.   | Measured value | Limit  | Margin | Factor | Reading |
|---|---------|----------------|--------|--------|--------|---------|
|   | MHz     | dBm            | dBm    | dB     | dB     | dBm     |
| 1 | 4957.84 | -55.76         | -47.00 | -8.76  | 12.60  | -68.36  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/1Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |

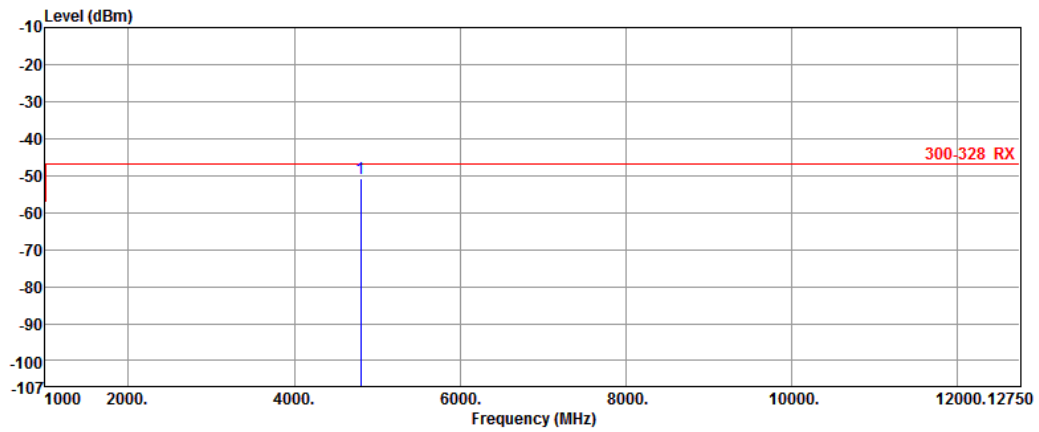


|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4958.11 | -54.89            | -47.00 | -7.89  | 12.92  | -67.81  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 4    |

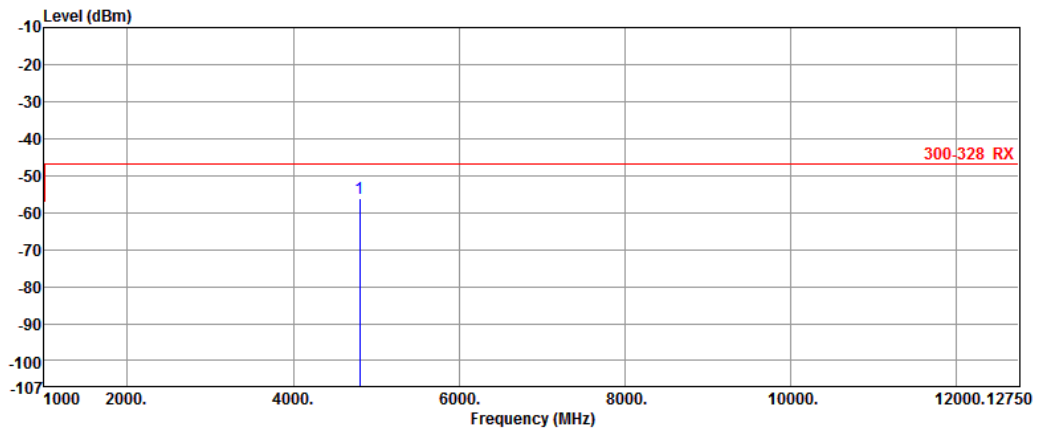


|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4800.00 | -50.97            | -47.00 | -3.97  | 9.09   | -60.06  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2402 |
| <b>Polarization</b> | Vertical   | <b>Test Configuration</b> | 4    |

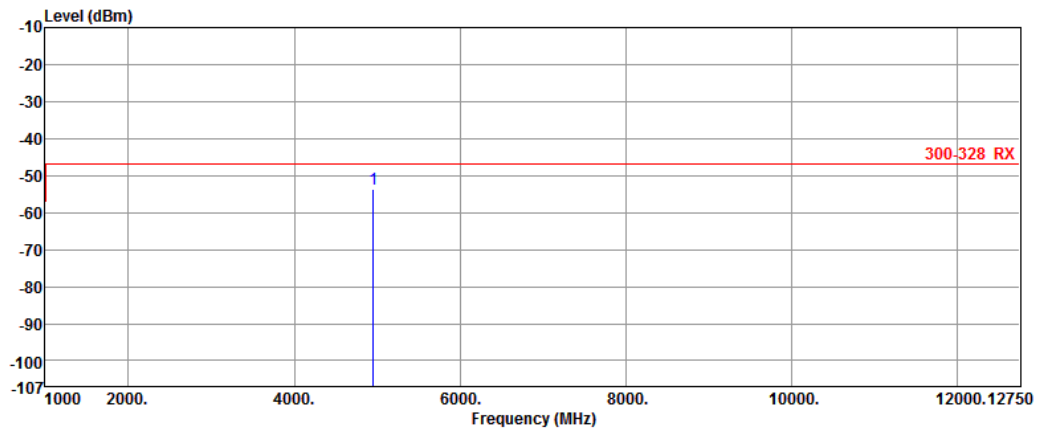


|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4800.02 | -56.04            | -47.00 | -9.04  | 9.40   | -65.44  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|                     |            |                           |      |
|---------------------|------------|---------------------------|------|
| <b>Modulation</b>   | GFSK/2Mbps | <b>Test Freq. (MHz)</b>   | 2480 |
| <b>Polarization</b> | Horizontal | <b>Test Configuration</b> | 4    |



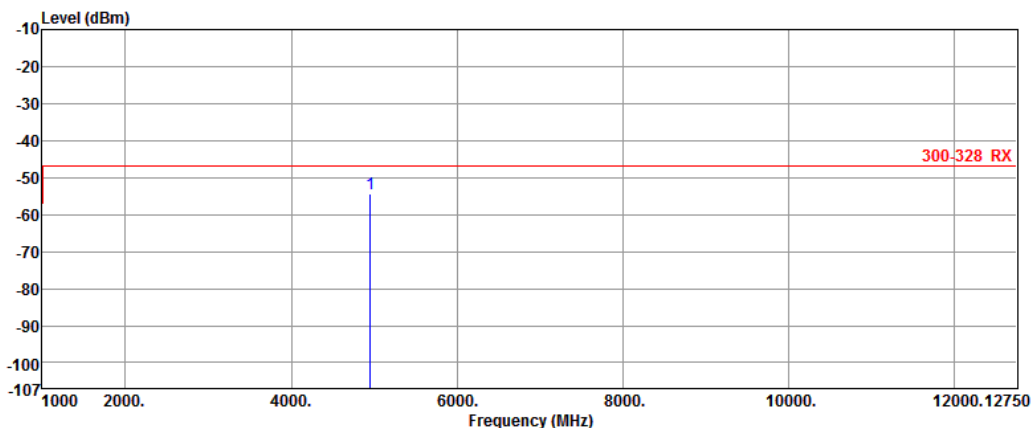
|   | Freq.   | Measured<br>value | Limit  | Margin | Factor | Reading |
|---|---------|-------------------|--------|--------|--------|---------|
|   | MHz     | dBm               | dBm    | dB     | dB     | dBm     |
| 1 | 4955.90 | -53.63            | -47.00 | -6.63  | 10.38  | -64.01  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

|              |            |                    |      |
|--------------|------------|--------------------|------|
| Modulation   | GFSK/2Mbps | Test Freq. (MHz)   | 2480 |
| Polarization | Vertical   | Test Configuration | 4    |



| Freq.     | Measured value | Limit  | Margin | Factor | Reading |
|-----------|----------------|--------|--------|--------|---------|
| MHz       | dBm            | dBm    | dB     | dB     | dBm     |
| 1 4956.23 | -54.28         | -47.00 | -7.28  | 10.47  | -64.75  |

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

## 5 Receiver Blocking Test Results

### 5.1 Receiver Blocking

#### 5.1.1 Limit of Receiver Blocking

| Receiver Blocking Parameters for Receiver Category 1 Equipment Limit |                                                                |                                          |                         |
|----------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------|-------------------------|
| Wanted Signal Mean Power from Companion Device (dBm)                 | Blocking Signal Frequency (MHz)                                | Blocking Signal Power (dBm) (see Note 2) | Type of Blocking Signal |
| $P_{min} + 6 \text{ dB}$                                             | 2 380<br>2 503,5                                               | -53                                      | CW                      |
| $P_{min} + 6 \text{ dB}$                                             | 2 300<br>2 330<br>2 360                                        | -47                                      | CW                      |
| $P_{min} + 6 \text{ dB}$                                             | 2 523,5<br>2 553,5<br>2 583,5<br>2 613,5<br>2 643,5<br>2 673,5 | -47                                      | CW                      |

Note 1:  $P_{min}$  is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria (The minimum performance criterion shall be a PER less than or equal to 10 %) in the absence of any blocking signal.

Note 2: The levels specified are levels in front of the UUT antenna. In case of conducted measurements, the levels have to be corrected by the actual antenna assembly gain.

| Receiver Blocking Parameters for Receiver Category 2 Equipment Limit |                                 |                                          |                         |
|----------------------------------------------------------------------|---------------------------------|------------------------------------------|-------------------------|
| Wanted Signal Mean Power from Companion Device (dBm)                 | Blocking Signal Frequency (MHz) | Blocking Signal Power (dBm) (see Note 2) | Type of Blocking Signal |
| $P_{min} + 6 \text{ dB}$                                             | 2 380<br>2 503,5                | -57                                      | CW                      |
| $P_{min} + 6 \text{ dB}$                                             | 2 300<br>2 583,5                | -47                                      | CW                      |

Note 1:  $P_{min}$  is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria (The minimum performance criterion shall be a PER less than or equal to 10 %) in the absence of any blocking signal.

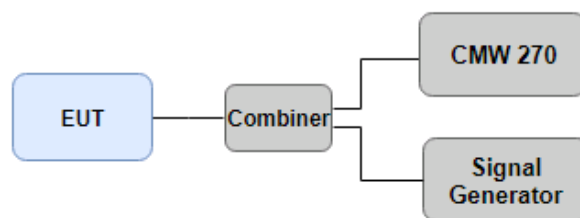
Note 2: The levels specified are levels in front of the UUT antenna. In case of conducted measurements, the levels have to be corrected by the actual antenna assembly gain.

| Receiver Blocking Parameters for Receiver Category 3 Equipment Limit                                                                                                                                                                                                                                                                                                                                                                               |                                 |                                          |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------|-------------------------|
| Wanted Signal Mean Power from Companion Device (dBm)                                                                                                                                                                                                                                                                                                                                                                                               | Blocking Signal Frequency (MHz) | Blocking Signal Power (dBm) (see Note 2) | Type of Blocking Signal |
| $P_{\min} + 12 \text{ dB}$                                                                                                                                                                                                                                                                                                                                                                                                                         | 2 380<br>2 503,5                | -57                                      | CW                      |
| $P_{\min} + 12 \text{ dB}$                                                                                                                                                                                                                                                                                                                                                                                                                         | 2 300<br>2 583,5                | -47                                      | CW                      |
| <p>Note 1: <math>P_{\min}</math> is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria (The minimum performance criterion shall be a PER less than or equal to 10 %) in the absence of any blocking signal.</p> <p>Note 2: The levels specified are levels in front of the UUT antenna. In case of conducted measurements, the levels have to be corrected by the actual antenna assembly gain.</p> |                                 |                                          |                         |

### 5.1.2 Test Procedures

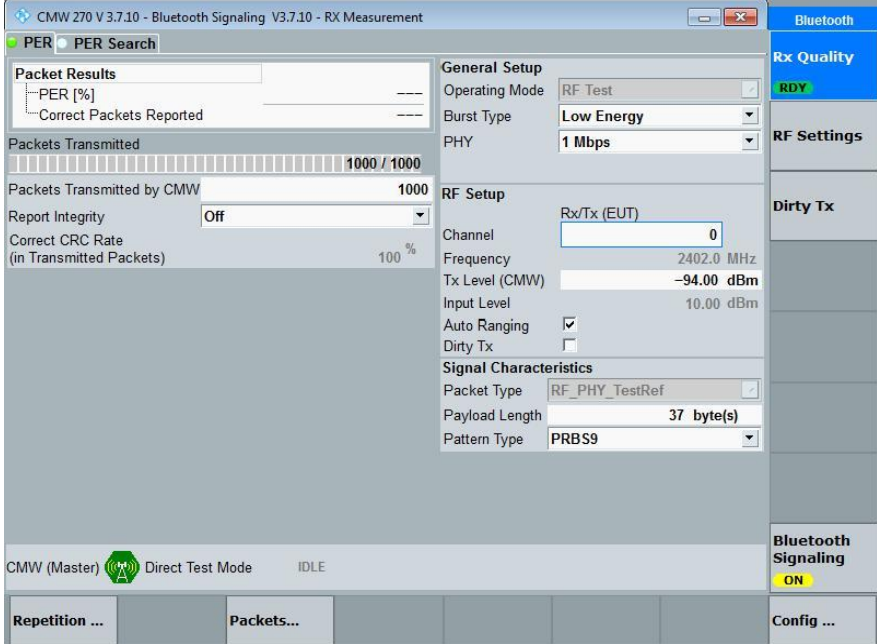
Reference to clause 5.4.11.2 of ETSI EN 300 328 V2.1.1 (2016-11).

### 5.1.3 Test Setup



### 5.1.4 Test Result of Receiver Blocking

**2402 MHz**



Bluetooth

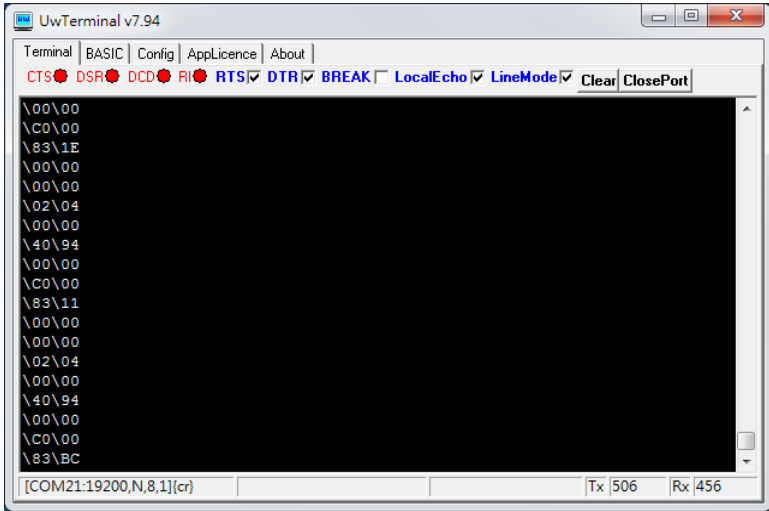
Rx Quality  
**RDY**

RF Settings

Dirty Tx

Bluetooth Signaling  
**ON**

Config ...



|                         |      |
|-------------------------|------|
| Packet Sent Numbers     | 1000 |
| Packet Received Numbers | 956  |
| PER(%)                  | 4.4  |

| Sensitivity Level                                    | -94                             |                             | dBm         |
|------------------------------------------------------|---------------------------------|-----------------------------|-------------|
| Wanted Signal Mean Power from Companion Device (dBm) | Blocking Signal Frequency (MHz) | Blocking Signal Power (dBm) | Test Result |
| -88                                                  | 2380.0                          | -54.79                      | Pass        |
| -88                                                  | 2503.5                          |                             | Pass        |
| -88                                                  | 2300.0                          | -44.79                      | Pass        |
| -88                                                  | 2583.5                          |                             | Pass        |

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## 2480 MHz

CMW 270 V 3.7.10 - Bluetooth Signaling V3.7.10 - RX Measurement

**PER** ☐ PER Search

**Packet Results**

PER [%] ----

Correct Packets Reported ----

Packets Transmitted 1000 / 1000

Packets Transmitted by CMW 1000

Report Integrity Off

Correct CRC Rate (in Transmitted Packets) 100 %

**General Setup**

Operating Mode RF Test

Burst Type Low Energy

PHY 1 Mbps

**RF Setup**

Rx/Tx (EUT)

Channel 39

Frequency 2480.0 MHz

Tx Level (CMW) -94.00 dBm

Input Level 10.00 dBm

Auto Ranging ☒

Dirty Tx ☐

**Signal Characteristics**

Packet Type RF\_PHY\_TestRef

Payload Length 37 byte(s)

Pattern Type PRBS9

CMW (Master) Direct Test Mode IDLE

Repetition ... Packets... Config ...

**Bluetooth**

**Rx Quality**

RDY

**RF Settings**

**Dirty Tx**

**Bluetooth Signaling**

ON

```
UwTerminal v7.94
Terminal | BASIC | Config | ApplLicence | About
CTS DSR DCD RI RTS DTR BREAK LocalEcho LineMode Clear ClosePort
\83\BC
\00\00
\00\00
\00\00
\00\00
\02\04
\00\00
\40\94
\00\00
\00\00
\00\00
\02\04
\00\00
\67\94
\00\00
\00\00
\00\00
\83\AS
[COM21:19200,N,8,1][cr]
[Tx 524 Rx 474]
```

|                         |      |
|-------------------------|------|
| Packet Sent Numbers     | 1000 |
| Packet Received Numbers | 933  |
| PER(%)                  | 6.7  |

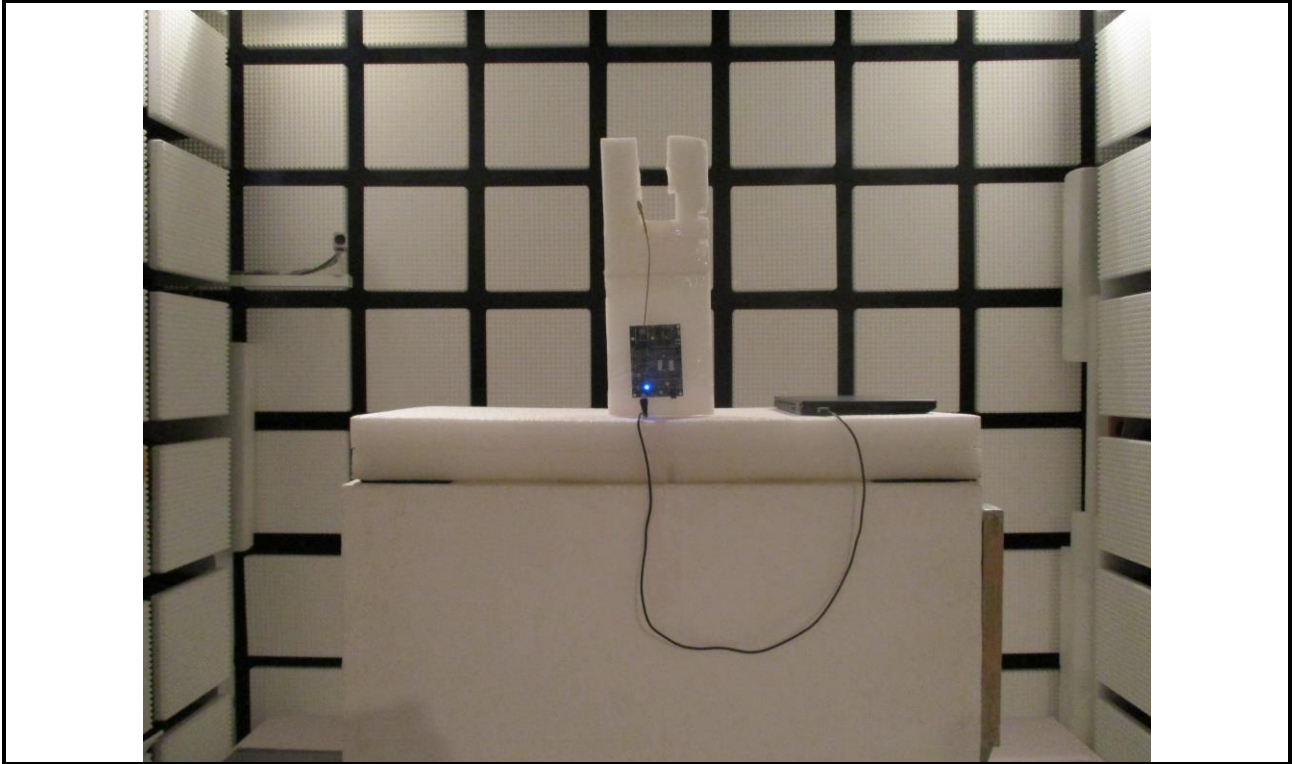
| Sensitivity Level                                    | -94                             |                             | dBm         |
|------------------------------------------------------|---------------------------------|-----------------------------|-------------|
| Wanted Signal Mean Power from Companion Device (dBm) | Blocking Signal Frequency (MHz) | Blocking Signal Power (dBm) | Test Result |
| -88                                                  | 2380.0                          | -54.79                      | Pass        |
| -88                                                  | 2503.5                          |                             | Pass        |
| -88                                                  | 2300.0                          | -44.79                      | Pass        |
| -88                                                  | 2583.5                          |                             | Pass        |

## 6 Photographs of the Test Configuration

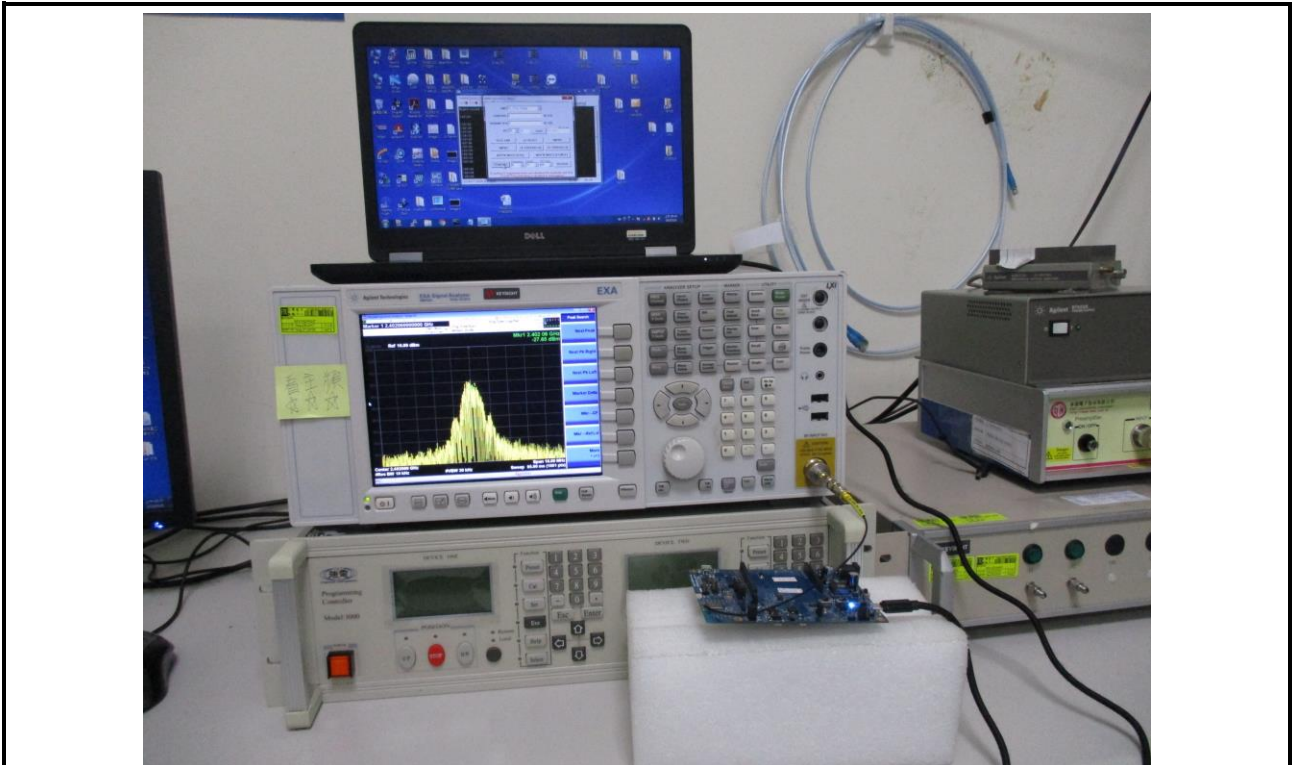
### Radiated Spurious Emission Test (for Model: BL652-SA)



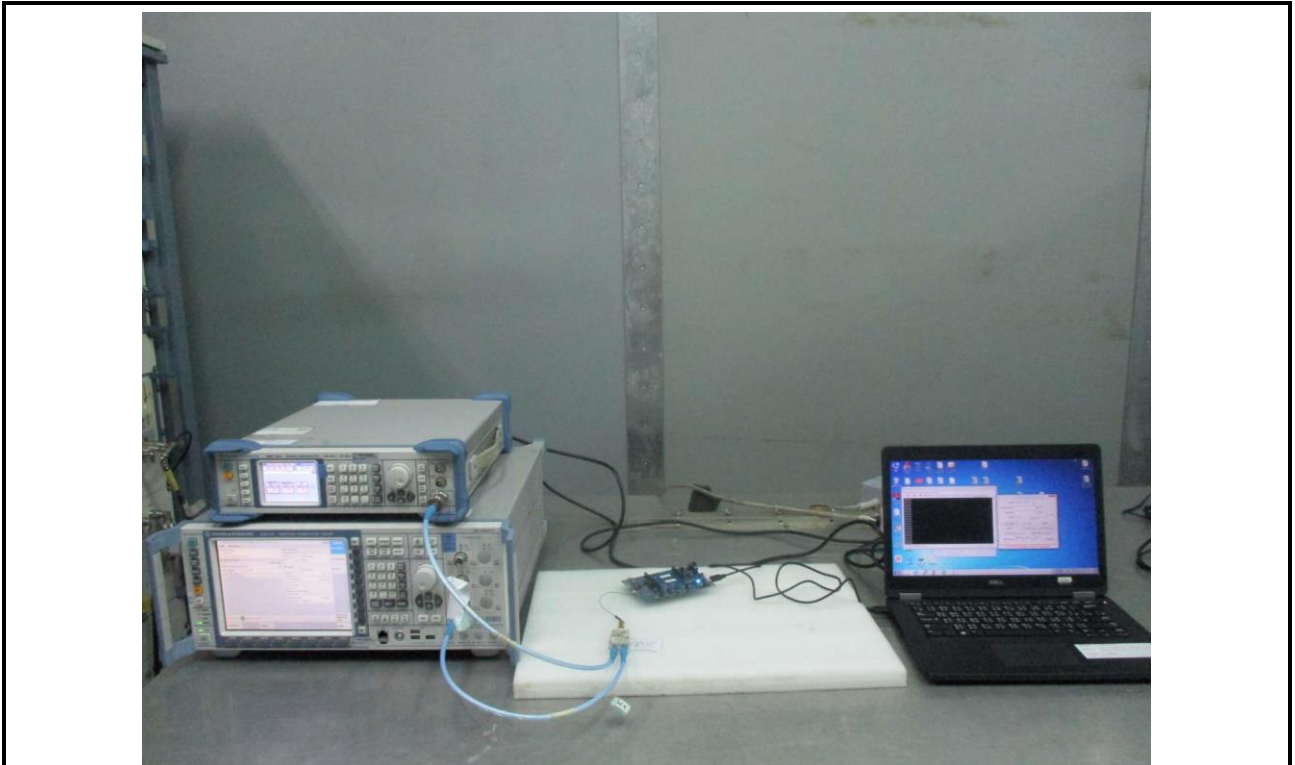
**Radiated Spurious Emission Test (for Model: BL652-SC)**



**Conducted Spurious Emission Test (for Model: BL652-SC)**



**Receiver Blocking Test**



## 7 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

### **Linkou**

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin  
Kou District, New Taipei City,  
Taiwan, R.O.C.

### **Kwei Shan**

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,  
Kwei Shan District, Tao Yuan City  
333, Taiwan, R.O.C.

### **Kwei Shan Site II**

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd  
St., Kwei Shan District, Tao Yuan  
City 333, Taiwan, R.O.C..

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC\_Service@icertifi.com.tw

==END==