

# FCC Radio Test Report

**FCC ID** : 2A753-BTHS20  
**Equipment** : Dragon BT Headset 2.0  
**Brand Name** : Nuance Communications  
**Model Name** : DragonBT2.0  
**Applicant** : Nuance Communications, Inc.  
1 Wayside Road, Burlington, Massachusetts  
01803, United States  
**Manufacturer** : Nuance Communications, Inc.  
1 Wayside Road, Burlington, Massachusetts  
01803, United States  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Oct. 14, 2021, and testing was started from Nov. 15, 2021 and completed on Dec. 09, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.

  
Approved by: Jackson Tsai

**SPORTON INTERNATIONAL INC. Hsinhua Laboratory**

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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## History of this test report

TEL : 886-3-3273456  
FAX : 886-3-3270973  
Report Template No.: HE1-C9 Ver4.2  
FCC ID: 2A753-BTHS20

## Summary of Test Result

| Report Clause | Ref. Std. Clause | Test Items                                         | Result (PASS/FAIL) | Remark |
|---------------|------------------|----------------------------------------------------|--------------------|--------|
| 1.1.2         | 15.203           | Antenna Requirement                                | PASS               | -      |
| 3.1           | 15.207           | AC Power-line Conducted Emissions                  | PASS               | -      |
| 3.2           | 15.247(a)        | 20dB Bandwidth                                     | PASS               | -      |
| 3.2           | 15.247(a)        | Carrier Frequency Separation                       | PASS               | -      |
| 3.3           | 15.247(b)        | Maximum Conducted Output Power                     | PASS               | -      |
| 3.4           | 15.247(a)        | Number of Hopping Frequencies and Hopping Bandedge | PASS               | -      |
| 3.5           | 15.247(a)        | Time of Occupancy (Dwell Time)                     | PASS               | -      |
| 3.6           | 15.247(d)        | Emissions in Non-restricted Frequency Bands        | PASS               | -      |
| 3.7           | 15.247(d)        | Emissions in Restricted Frequency Bands            | PASS               | -      |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and explanations:**

None

**Reviewed by: Ben Tseng**

**Report Producer: Jenny Yang**

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| Frequency Range (MHz) | Bluetooth Version | Ch. Frequency (MHz) | Channel Number |
|-----------------------|-------------------|---------------------|----------------|
| 2400-2483.5           | BR / EDR          | 2402-2480           | 0-78 [79]      |

| Band          | Mode          | BWch (MHz) | Nant |
|---------------|---------------|------------|------|
| 2.4-2.4835GHz | BT-BR(1Mbps)  | 1          | 1TX  |
| 2.4-2.4835GHz | BT-EDR(2Mbps) | 1          | 1TX  |
| 2.4-2.4835GHz | BT-EDR(3Mbps) | 1          | 1TX  |

Note:

- ♦ Bluetooth BR uses a GFSK (1Mbps).
- ♦ Bluetooth EDR uses a combination of  $\pi/4$ -DQPSK (2Mbps) and 8DPSK (3Mbps).
- ♦ Bluetooth BR/EDR uses as a system using FHSS modulation.
- ♦ BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

| Ant. | Brand | Model Name    | Antenna Type | Connector | Gain (dBi) |
|------|-------|---------------|--------------|-----------|------------|
| 1    | BAT   | BW2.4GFND28-6 | PCB          | N/A       | 2          |

Note 1: The EUT has one antenna.

**For BT function:**

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Only Ant. 1 can be used as transmitting/receiving.

**1.1.3 EUT Information**

| Operational Condition               |                                                                               |                                         |  |
|-------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------|--|
| <b>EUT Power Type</b>               | From AC Adapter / From Host system / Battery                                  |                                         |  |
| <b>EUT Function</b>                 | <input checked="" type="checkbox"/> Point-to-multipoint                       | <input type="checkbox"/> Point-to-point |  |
| Type of EUT                         |                                                                               |                                         |  |
| <input checked="" type="checkbox"/> | Stand-alone                                                                   |                                         |  |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device) |                                         |  |
|                                     | Combined Equipment - Brand Name / Model No.: ...                              |                                         |  |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)                    |                                         |  |
|                                     | Host System - Brand Name / Model No.: ...                                     |                                         |  |
| <input type="checkbox"/>            | Other:                                                                        |                                         |  |

**1.1.4 Mode Test Duty Cycle**

| Mode          | DC    | DCF(dB) | T(s)   | VBW(Hz) $\geq 1/T$ |
|---------------|-------|---------|--------|--------------------|
| BT-BR(1Mbps)  | 0.792 | 1.01    | 2.892m | 1k                 |
| BT-EDR(2Mbps) | 0.745 | 1.28    | 2.898m | 1k                 |
| BT-EDR(3Mbps) | 0.745 | 1.28    | 2.899m | 1k                 |

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

## 1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Test Lab. : Sporton International Inc. Hsinhua Laboratory  |                                                                                         |               |                      |                         |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------|----------------------|-------------------------|
| <input checked="" type="checkbox"/> Hsinhua<br>(TAF: 3785) | ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)          |               |                      |                         |
|                                                            | TEL: 886-3-327-3456                                                                     |               | FAX: 886-3-327-0973  |                         |
| Test site Designation No. TW3785 with FCC.                 |                                                                                         |               |                      |                         |
| Test Condition                                             | Test Site No.                                                                           | Test Engineer | Test Environment     | Test Date               |
| AC Conduction                                              | CO04-HY                                                                                 | Jack Tang     | 21.5~24.7°C / 52~55% | 18/Nov/2021~19/Nov/2021 |
| RF Conducted                                               | TH06-HY                                                                                 | Johnny Yu     | 21.1~24.9°C / 46~63% | 22/Nov/2021~09/Dec/2021 |
| Radiated                                                   | 03CH02-HY                                                                               | Lego Lin      | 21.2~24.5°C / 56~60% | 15/Nov/2021~16/Nov/2021 |
| <input type="checkbox"/> Wen 33rd.St.<br>(TAF: 3785)       | ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) |               |                      |                         |
|                                                            | TEL: 886-3-318-0787                                                                     |               | FAX: 886-3-318-0287  |                         |
| Test site Designation No. TW0008 with FCC.                 |                                                                                         |               |                      |                         |

## 1.4 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))

| Test Items                           | Uncertainty | Remark                   |
|--------------------------------------|-------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz)  | 0.9 dB      | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz)     | 2.4 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 3.7 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 3.6 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 3.5 dB      | Confidence levels of 95% |
| Conducted Emission                   | 1.0 dB      | Confidence levels of 95% |
| Temperature                          | 0.41 °C     | Confidence levels of 95% |
| Humidity                             | 3.4 %       | Confidence levels of 95% |

## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

| Test Software Version | BlueTest 3    |
|-----------------------|---------------|
| Mode                  | Power Setting |
| BT-BR(1Mbps)          | -             |
| 2402MHz               | 5             |
| 2440MHz               | 5             |
| 2480MHz               | 5             |
| BT-EDR(2Mbps)         | -             |
| 2402MHz               | 5             |
| 2440MHz               | 5             |
| 2480MHz               | 5             |
| BT-EDR(3Mbps)         | -             |
| 2402MHz               | 5             |
| 2440MHz               | 5             |
| 2480MHz               | 5             |

## 2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                                                                         |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | AC power-line conducted emissions                                                       |
| <b>Condition</b>                                    | AC power-line conducted measurement for line and neutral<br>Test Voltage: 120Vac / 60Hz |
| 1                                                   | USB mode (Charging)                                                                     |
| 2                                                   | Adapter mode (Charging)                                                                 |

| The Worst Case Mode for Following Conformance Tests                                     |                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                                                       | 20dB Bandwidth<br>Carrier Frequency Separation<br>Maximum Conducted Output Power<br>Number of Hopping Frequencies<br>Hopping Bandedge<br>Time of Occupancy (Dwell Time)<br>Emissions in Non-restricted Frequency Bands |
| <b>Test Condition</b>                                                                   | Conducted measurement at transmit chains<br><input checked="" type="checkbox"/> Non-adaptive frequency hopping systems (Non-AFH)<br><input checked="" type="checkbox"/> adaptive frequency hopping systems (AFH)       |
| Non-AFH Mode configuration was found to be the worst case and measured during the test. |                                                                                                                                                                                                                        |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                                                                     |                                                                                      |                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Emissions in Restricted Frequency Bands                                                                                                                                                                                                             |                                                                                      |                                                                                       |
| <b>Test Condition</b>                               | Radiated measurement<br>If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |                                                                                      |                                                                                       |
| <b>Operating Mode &lt; 1GHz</b>                     |                                                                                                                                                                                                                                                     |                                                                                      |                                                                                       |
| 1                                                   | Battery mode, CTX                                                                                                                                                                                                                                   |                                                                                      |                                                                                       |
| 2                                                   | Adapter mode (Charging)                                                                                                                                                                                                                             |                                                                                      |                                                                                       |
| 3                                                   | USB mode (Charging)                                                                                                                                                                                                                                 |                                                                                      |                                                                                       |
| <b>Operating Mode &gt; 1GHz</b>                     | CTX                                                                                                                                                                                                                                                 |                                                                                      |                                                                                       |
| <b>Orthogonal Planes of EUT</b>                     | <b>X Plane</b>                                                                                                                                                                                                                                      | <b>Y Plane</b>                                                                       | <b>Z Plane</b>                                                                        |
|                                                     |                                                                                                                                                                  |  |  |
| <b>Worst Planes of EUT</b>                          |                                                                                                                                                                                                                                                     | V                                                                                    |                                                                                       |

## 2.3 Accessories

| Accessories    |              |              |            |            |
|----------------|--------------|--------------|------------|------------|
| Li-ion Battery | Brand Name   | A&S Power    | Model Name | A&S 601030 |
|                | Power Rating | 3.7V; 120mAh | Type       | Li-ion     |

Reminder: Regarding to more detail and other information, please refer to user manual.

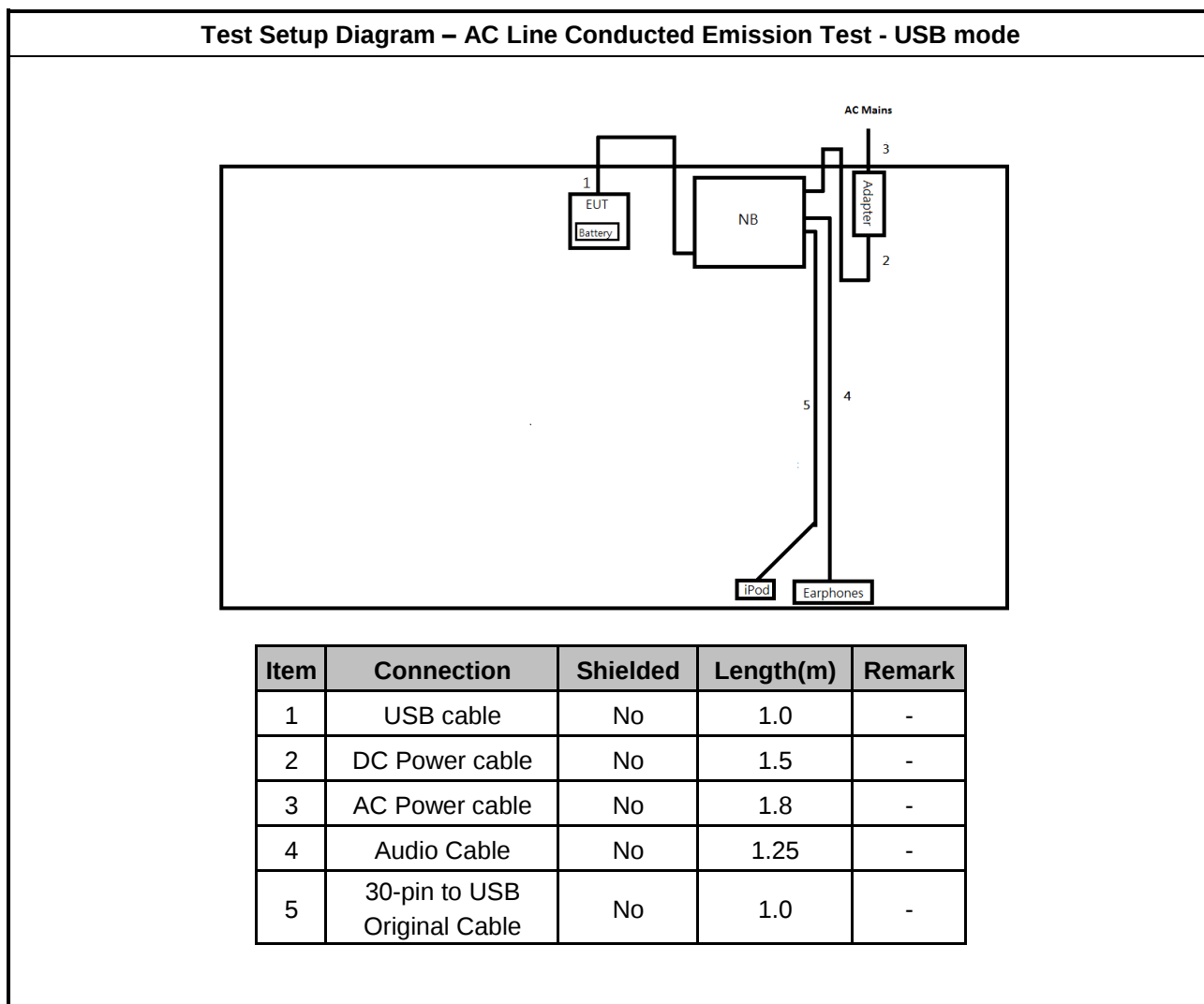
## 2.4 Support Equipment

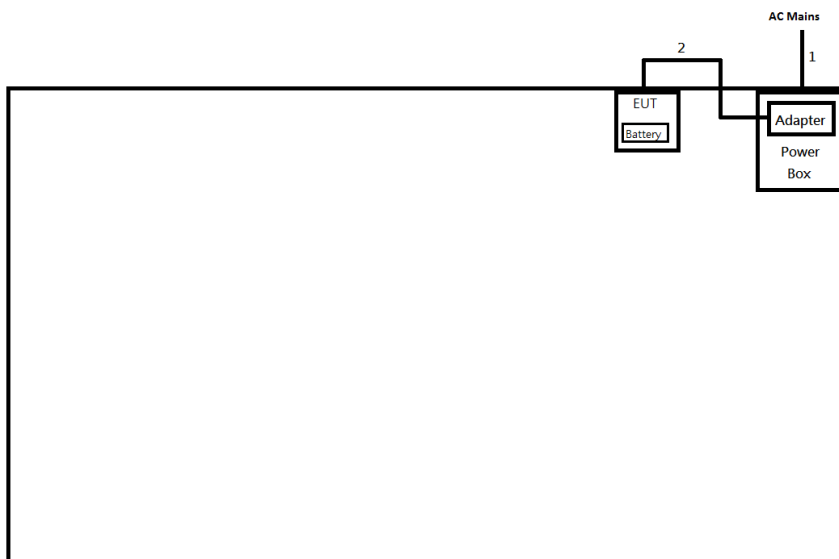
| Support Equipment – AC Conduction |                     |            |             |        |        |
|-----------------------------------|---------------------|------------|-------------|--------|--------|
| No.                               | Equipment           | Brand Name | Model Name  | FCC ID | Remark |
| 1                                 | AC Adapter (for NB) | HP         | PPP009D     | -      | -      |
| 2                                 | AC Power cable      | Power sync | PW-GPC180-3 | -      | -      |
| 3                                 | Notebook            | HP         | E5220       | -      | -      |
| 4                                 | Earphone            | APPLE      | MD827FE/A   | -      | -      |
| 5                                 | iPod                | APPLE      | A1199       | -      | -      |
| 6                                 | AC adapter          | APPLE      | A1385       | -      | -      |
| 7                                 | USB cable           | Hawk       | 04-HTE120   | -      | -      |

| Support Equipment – Conducted |                 |                  |                  |        |        |
|-------------------------------|-----------------|------------------|------------------|--------|--------|
| No.                           | Equipment       | Brand Name       | Model Name       | FCC ID | Remark |
| 1                             | Notebook        | HP               | HSTNN-I42C       | -      | -      |
| 2                             | Adapter for NB  | HP               | HSTNN-CA40       | -      | -      |
| 3                             | Debugger        | Qualcomm         | TRBI200          | -      | -      |
| 4                             | USB Cable       | Customer Provide | Customer Provide | -      | -      |
| 5                             | DC Power Supply | GW               | GPC-6030D        | -      | -      |

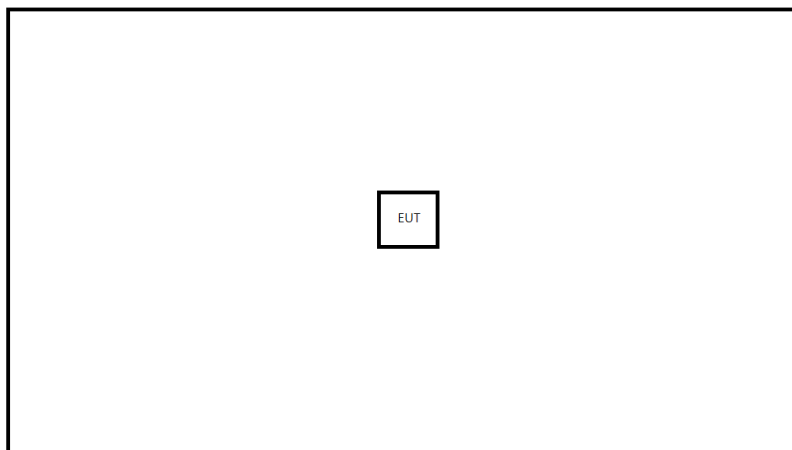
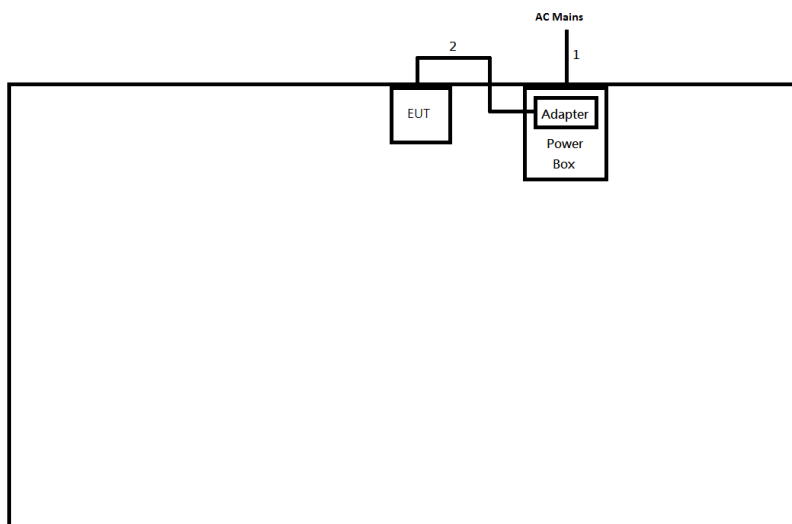
| Support Equipment – Radiated |                     |            |             |        |        |
|------------------------------|---------------------|------------|-------------|--------|--------|
| No.                          | Equipment           | Brand Name | Model Name  | FCC ID | Remark |
| 1                            | AC Adapter (for NB) | HP         | PPP009D     | -      | -      |
| 2                            | AC Power cable      | Power sync | PW-GPC180-3 | -      | -      |
| 3                            | Notebook            | HP         | E5220       | -      | -      |
| 4                            | Earphone            | APPLE      | MD827FE/A   | -      | -      |
| 5                            | iPod                | APPLE      | A1199       | -      | -      |
| 6                            | AC adapter          | APPLE      | A1385       | -      | -      |
| 7                            | USB cable           | Hawk       | 04-HTE120   | -      | -      |

## 2.5 Test Setup Diagram

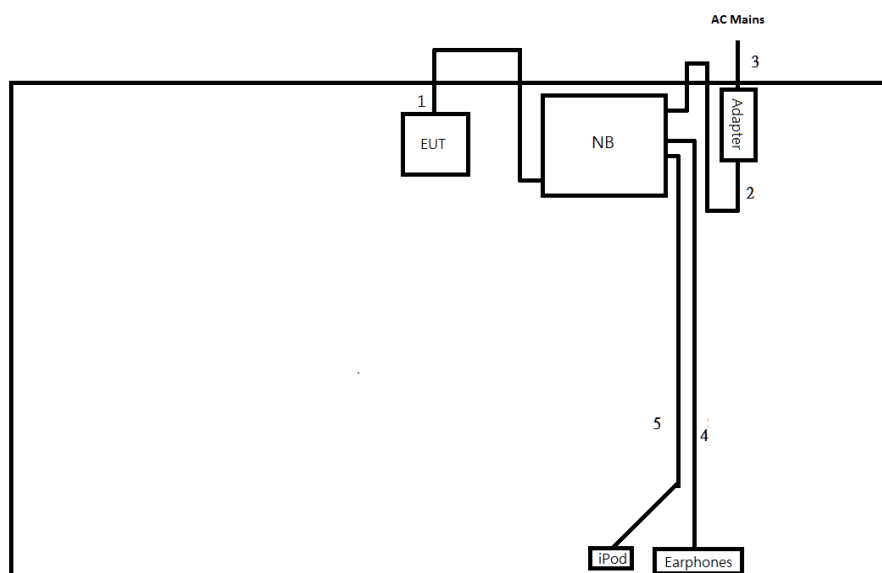


**Test Setup Diagram – AC Line Conducted Emission Test - Adapter mode**


| Item | Connection     | Shielded | Length(m) | Remark |
|------|----------------|----------|-----------|--------|
| 1    | AC Power cable | No       | 1.8       | -      |
| 2    | USB cable      | No       | 1.0       | -      |

**Test Setup Diagram - Radiated Test – Battery mode**

**Test Setup Diagram - Radiated Test – Adapter mode**


| Item | Connection     | Shielded | Length(m) | Remark |
|------|----------------|----------|-----------|--------|
| 1    | AC Power cable | No       | 1.8       | -      |
| 2    | USB cable      | No       | 1.0       | -      |

**Test Setup Diagram - Radiated Test – USB mode**


| Item | Connection                   | Shielded | Length(m) | Remark |
|------|------------------------------|----------|-----------|--------|
| 1    | USB cable                    | No       | 1.0       | -      |
| 2    | DC Power cable               | No       | 1.5       | -      |
| 3    | AC Power cable               | No       | 1.8       | -      |
| 4    | Audio Cable                  | No       | 1.25      | -      |
| 5    | 30-pin to USB Original Cable | No       | 1.0       | -      |

### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit                  |            |           |
|----------------------------------------------------------|------------|-----------|
| Frequency Emission (MHz)                                 | Quasi-Peak | Average   |
| 0.15-0.5                                                 | 66 - 56 *  | 56 - 46 * |
| 0.5-5                                                    | 56         | 46        |
| 5-30                                                     | 60         | 50        |
| Note 1: * Decreases with the logarithm of the frequency. |            |           |

##### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

##### 3.1.3 Test Procedures

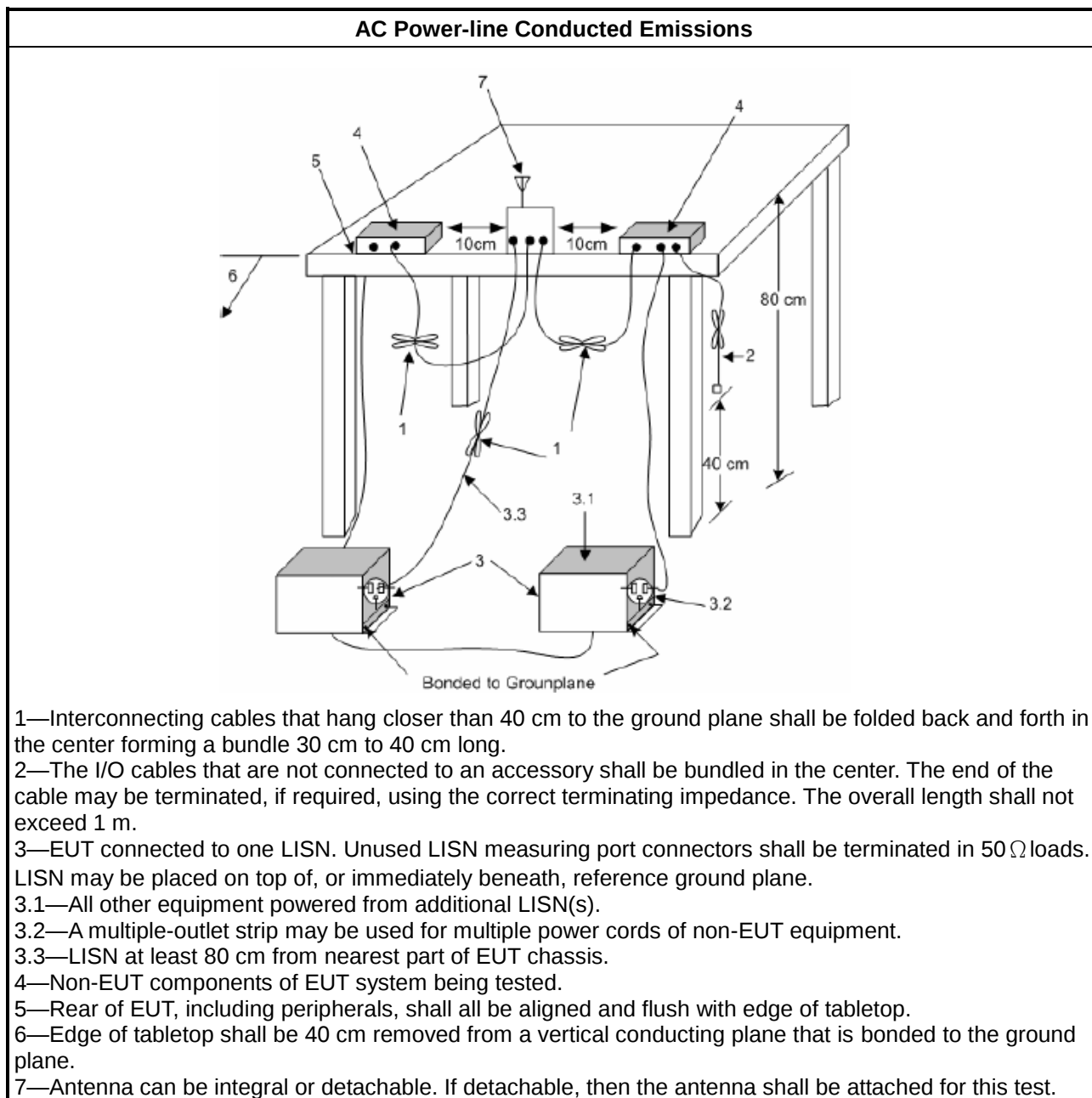
| Test Method                                                                    |
|--------------------------------------------------------------------------------|
| ▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

##### 3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

### 3.1.5 Test Setup



### 3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

## 3.2 20dB Bandwidth and Carrier Frequency Separation

### 3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

| 20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems |                                                                      |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| ▪ 2400-2483.5 MHz Band:                                                             |                                                                      |
|                                                                                     | ▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).          |
|                                                                                     | ▪ $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz). |
| N: Number of Hopping Frequencies; ChS: Hopping Channel Separation                   |                                                                      |

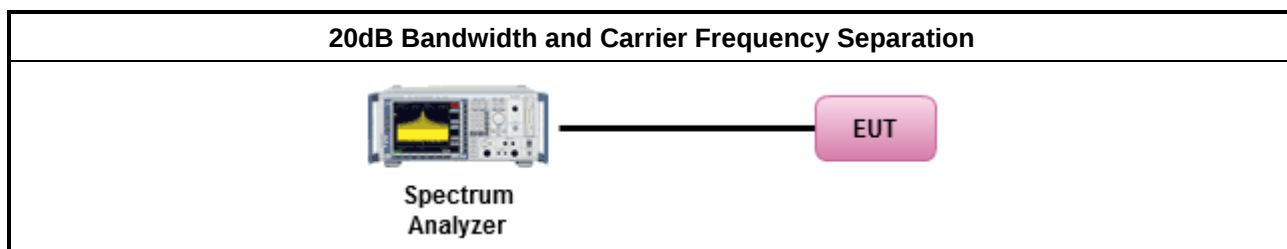
### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

| Test Method                                                                             |
|-----------------------------------------------------------------------------------------|
| ▪ Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.              |
| ▪ Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement. |

### 3.2.4 Test Setup



### 3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

### 3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit                                    |                                                                                                           |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>2400-2483.5 MHz Band:</li> </ul> |                                                                                                           |
|                                                                         | <ul style="list-style-type: none"> <li><math>N \geq 75</math>; Power 30dBm; EIRP 36dBm</li> </ul>         |
|                                                                         | <ul style="list-style-type: none"> <li><math>75 &gt; N \geq 15</math>; Power 21dBm; EIRP 27dBm</li> </ul> |
| N: Number of Hopping Frequencies                                        |                                                                                                           |

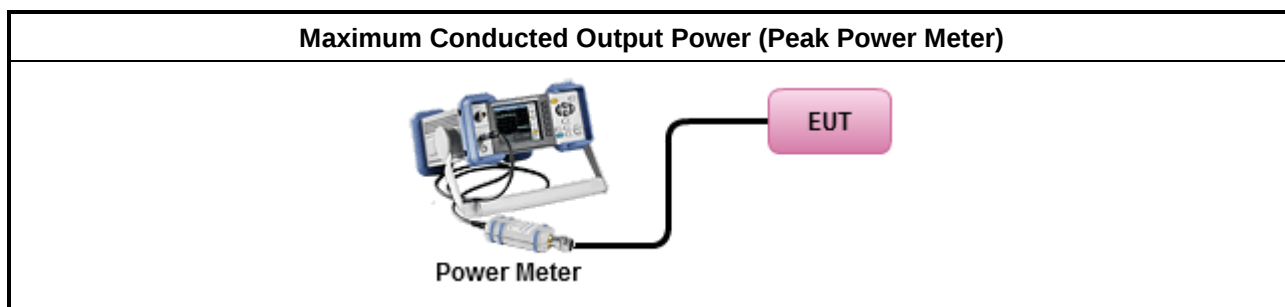
#### 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.3.3 Test Procedures

| Test Method                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 7.8.5 for output power measurement.</li> </ul> |

#### 3.3.4 Test Setup



#### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

### 3.4 Number of Hopping Frequencies and Hopping Bandedge

#### 3.4.1 Number of Hopping Frequencies Limit

| Number of Hopping Frequencies Limit                                     |                                                                                                                                               |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>2400-2483.5 MHz Band:</li> </ul> |                                                                                                                                               |
|                                                                         | <ul style="list-style-type: none"> <li><math>N \geq 75</math> and <math>ChS \geq MAX</math> (20 dB bandwidth, 25 kHz).</li> </ul>             |
|                                                                         | <ul style="list-style-type: none"> <li><math>75 &gt; N \geq 15</math> and <math>ChS \geq MAX</math> (20 dB bandwidth 2/3, 25 kHz).</li> </ul> |
| N: Number of Hopping Frequencies; ChS : Hopping Channel Separation      |                                                                                                                                               |

#### 3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

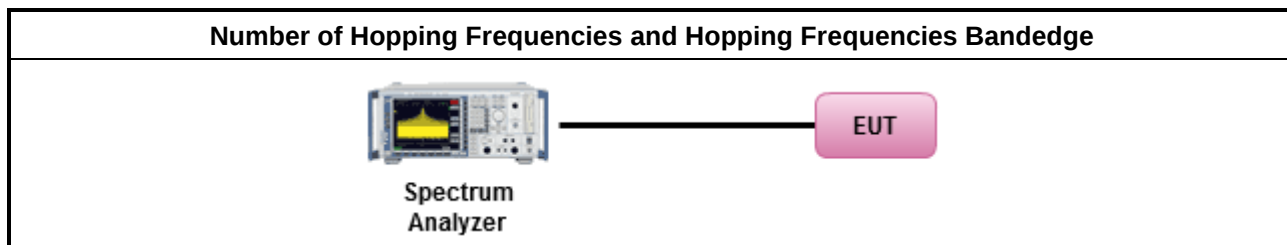
#### 3.4.3 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.4.4 Test Procedures

| Test Method                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.</li> </ul> |
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 7.8.6 for hopping frequencies Bandedge measurement.</li> </ul>  |

#### 3.4.5 Test Setup



#### 3.4.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

#### 3.4.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

### 3.5 Time of Occupancy (Dwell Time)

#### 3.5.1 Time of Occupancy (Dwell Time) Limit

| Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems      |                                                                                                                            |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>2400-2483.5 MHz Band:</li> </ul> |                                                                                                                            |
|                                                                         | <ul style="list-style-type: none"> <li><math>N \geq 75</math>; 0.4s in <math>N \times 0.4</math> period</li> </ul>         |
|                                                                         | <ul style="list-style-type: none"> <li><math>75 &gt; N \geq 15</math>; 0.4s in <math>N \times 0.4</math> period</li> </ul> |
| N: Number of Hopping Frequencies                                        |                                                                                                                            |

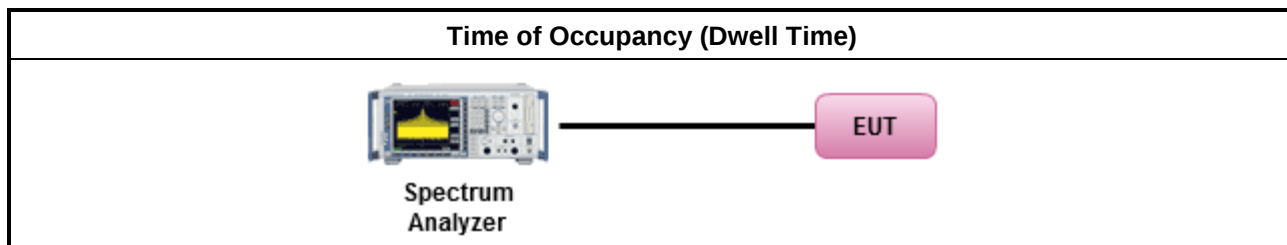
#### 3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.5.3 Test Procedures

| Test Method                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.</li> </ul>                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>Bluetooth ACL packets can be 1, 3, or 5 time slots. Following as dwell time. Operate DH5 at maximum dwell time and maximum duty cycle.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is <math>5/1600</math> seconds, or 3.125ms. DH5 Packet permit maximum <math>1600 / 79 / 6 = 3.37</math> hops per second in each channel.</li> </ul> |

#### 3.5.4 Test Setup



#### 3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

### 3.6 Emissions in Non-restricted Frequency Bands

#### 3.6.1 Emissions in Non-restricted Frequency Bands Limit

| Un-restricted Band Emissions Limit                                                                                                                                                                                                                                                                                                            |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| RF output power procedure                                                                                                                                                                                                                                                                                                                     | Limit (dB) |
| Peak output power procedure                                                                                                                                                                                                                                                                                                                   | 20         |
| Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. |            |

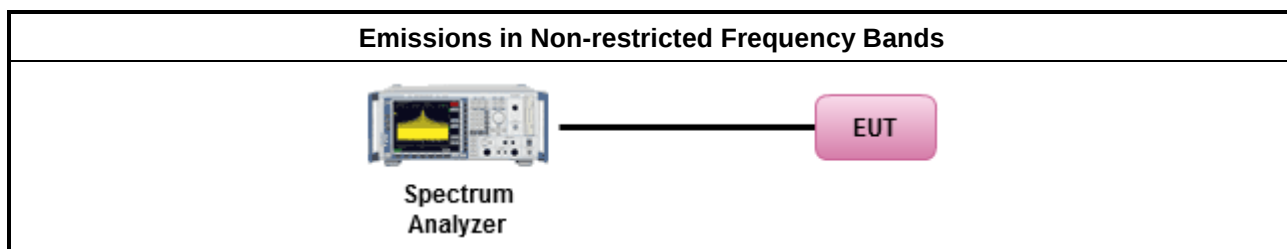
#### 3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.6.3 Test Procedures

| Test Method                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands.</li> </ul> |

#### 3.6.4 Test Setup



#### 3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F

### 3.7 Emissions in Restricted Frequency Bands

#### 3.7.1 Emissions in Restricted Frequency Bands Limit

| Restricted Band Emissions Limit |                       |                         |                      |
|---------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)           | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                     | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                     | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                      | 30                    | 29                      | 30                   |
| 30~88                           | 100                   | 40                      | 3                    |
| 88~216                          | 150                   | 43.5                    | 3                    |
| 216~960                         | 200                   | 46                      | 3                    |
| Above 960                       | 500                   | 54                      | 3                    |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

#### 3.7.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.7.3 Test Procedures

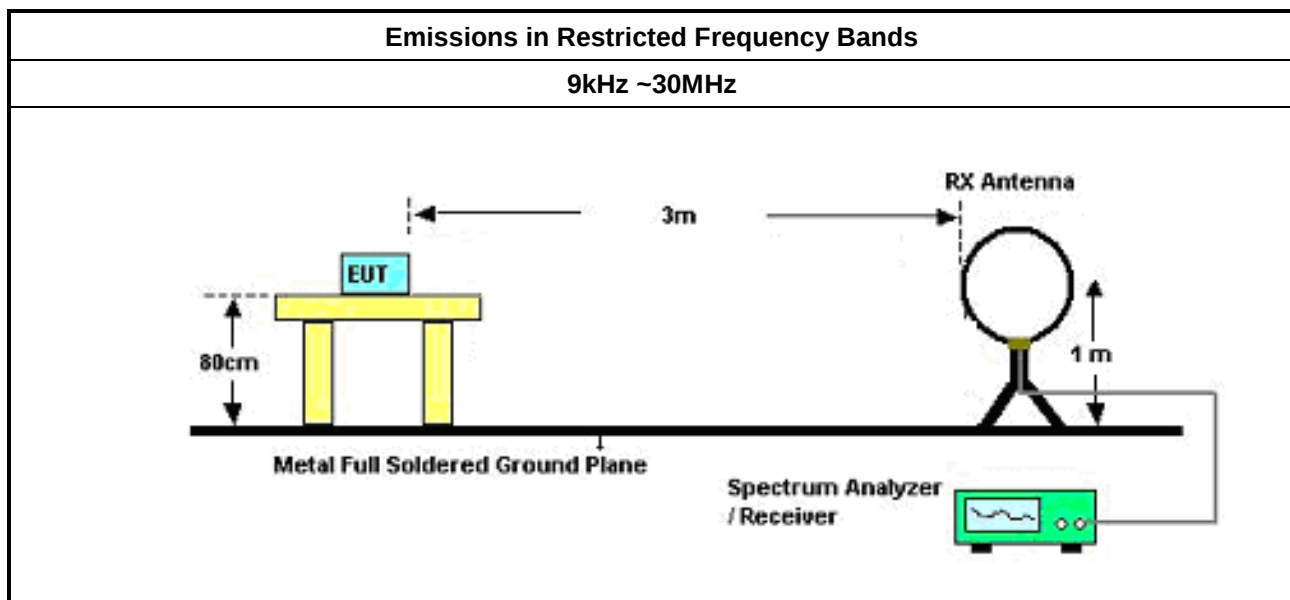
| Test Method                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>The average emission levels shall be measured in [hopping duty factor].</li> </ul>                                                                                                   |                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul> |                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>                                                                                   |                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.</li> </ul>                                                                                                                                                    |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.</li> </ul>                                                                                                                                  |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.</li> </ul>                                                                                                                   |
| <ul style="list-style-type: none"> <li>KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.</li> </ul>                                                                                                   |                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.</li> </ul> |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.</li> </ul>                                                                  |

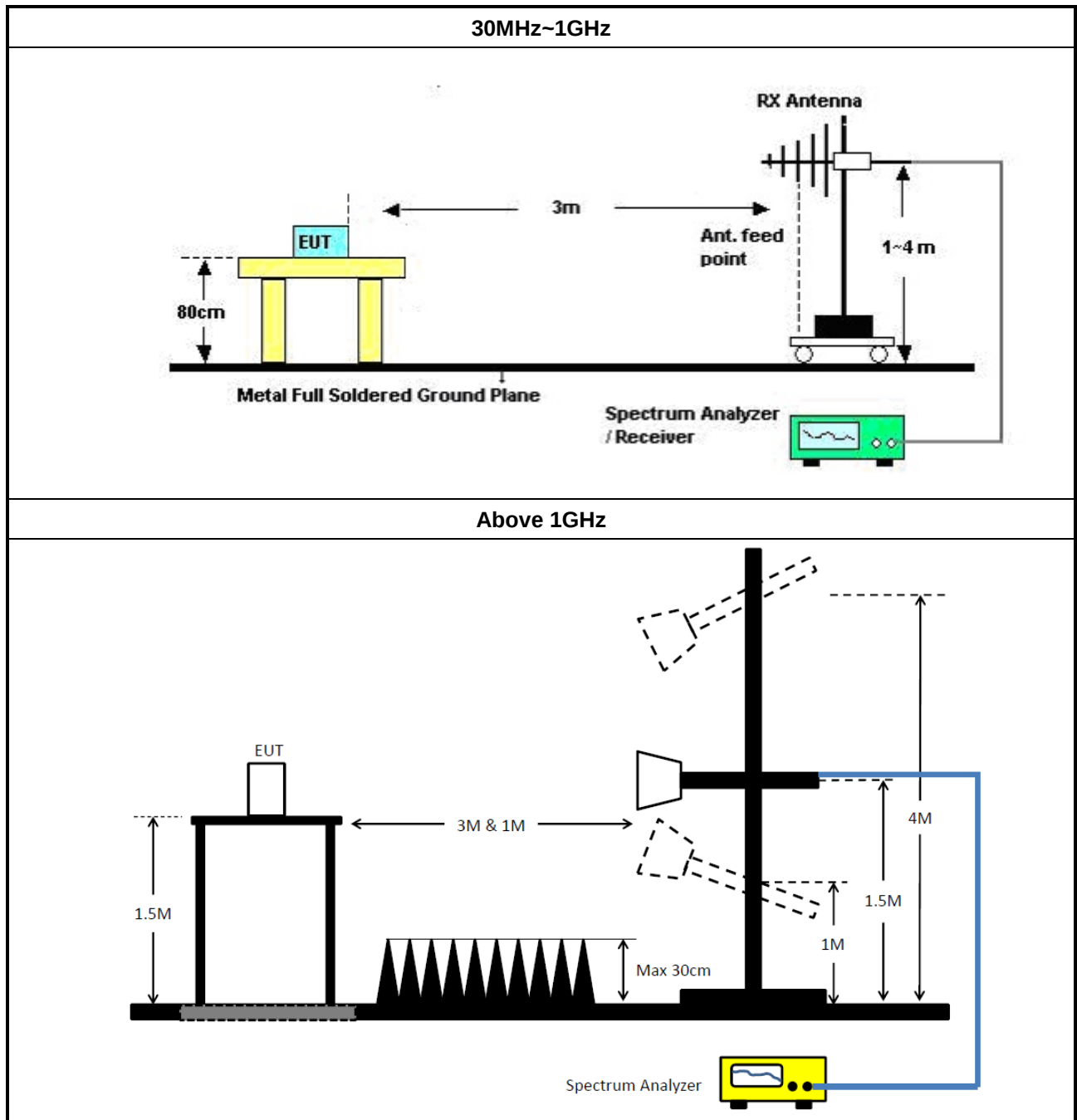
### 3.7.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

### 3.7.5 Test Setup





### 3.7.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

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

### 3.7.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G

## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

| Instrument                     | Manufacturer /Brand | Model No.   | Serial No.    | Spec.         | Calibration Date | Calibration Due Date |
|--------------------------------|---------------------|-------------|---------------|---------------|------------------|----------------------|
| EMI Test Receiver              | R&S                 | ESR3        | 102051        | 9kHz ~ 3.6GHz | 21/May/2021      | 20/May/2022          |
| LISN                           | R&S                 | ENV216      | 100003        | 9kHz ~ 30MHz  | 15/Dec/2020      | 14/Dec/2021          |
| RF Cable 5m                    | TITAN               | TITAN       | CO04-cable-01 | 0.1MHz~200MHz | 03/Mar/2021      | 02/Mar/2022          |
| Impuls Begrenzer Pulse Limiter | SCHWARZBECK         | VTSD 9561-F | 9561-F041     | 9kHz ~ 30MHz  | 15/Sep/2021      | 14/Sep/2022          |

### Instrument for Conducted Test

| Instrument               | Manufacturer /Brand | Model No. | Serial No. | Spec.        | Calibration Date | Calibration Due Date |
|--------------------------|---------------------|-----------|------------|--------------|------------------|----------------------|
| Signal Analyzer          | R&S                 | FSV 40    | 101029     | 10Hz~40GHz   | 20/Oct/2021      | 19/Oct/2022          |
| SMB100A Signal Generator | R&S                 | SMB100A03 | 181147     | 100kHz~40GHz | 21/Oct/2021      | 20/Oct/2022          |
| Pulse Sensor             | Anritsu             | MA2411B   | 1027452    | 300MHz~40GHz | 25/Mar/2021      | 24/Mar/2022          |
| Power Meter              | Anritsu             | ML2495A   | 1124009    | 300MHz~40GHz | 25/Mar/2021      | 24/Mar/2022          |

**Instrument for Radiated Test**

| Instrument                       | Manufacturer /Brand | Model No.              | Serial No.        | Spec.            | Calibration Date | Calibration Due Date |
|----------------------------------|---------------------|------------------------|-------------------|------------------|------------------|----------------------|
| 3m Semi Anechoic Chamber         | SIDT FRANKONIA      | SAC-3M                 | 03CH02-HY         | 30MHz~1GHz<br>3m | 02/Aug/2021      | 01/Aug/2022          |
| 3m Semi Anechoic Chamber         | SIDT FRANKONIA      | SAC-3M                 | 03CH02-HY         | 1GHz~18GHz<br>3m | 01/Aug/2021      | 31/Jul/2022          |
| Signal Analyzer                  | R&S                 | FSP40                  | 100593            | 9kHz~40GHz       | 12/Mar/2021      | 11/Mar/2022          |
| Amplifier                        | Agilent             | 8447D                  | 2944A11149        | 100kHz~1.3GHz    | 29/Jun/2021      | 28/Jun/2022          |
| Microwave Preamplifier           | Agilent             | 8449B                  | 3008A02373        | 1GHz~26.5GHz     | 03/Nov/2021      | 02/Nov/2022          |
| Bilog Antenna & 5dB Attenuator   | SCHAFFNER / MTJ     | CBL 6112B / MTJ6102-05 | 2723 / 2          | 30MHz~1GHz       | 04/Sep/2021      | 03/Sep/2022          |
| Double Ridged Guide Horn Antenna | SCHWARZBEC          | BBHA 9120 D            | BBHA 9120 D 01543 | 1GHz~18GHz       | 04/Jun/2021      | 03/Jun/2022          |
| RF Cable                         | MVE                 | 400LL                  | MVE-1-0802        | 9kHz~30MHz       | 05/May/2021      | 04/May/2022          |
| RF Cable                         | MVE                 | 400LL                  | MVE-1-0802        | 30MHz~1GHz       | 05/May/2021      | 04/May/2022          |
| RF Cable-R03m                    | HUBER+SUHNER        | SUCOFLEX104            | 805193/4+805192/4 | 1GHz~40GHz       | 06/Apr/2021      | 05/Apr/2022          |
| Broadband Horn Antenna           | SCHWARZBECK         | BBHA 9170              | BBHA 9170221      | 15GHz~40GHz      | 11/Mar/2021      | 10/Mar/2022          |
| Loop Antenna                     | TESEQ               | HLA 6120               | 31244             | 9kHz~30MHz       | 16/Mar/2021      | 15/Mar/2022          |
| EMI Test Receiver                | R&S                 | ESR3                   | 102052            | 9kHz~3.6GHz      | 19/Apr/2021      | 18/Apr/2022          |



## Conducted Emissions at Powerline

## Appendix A

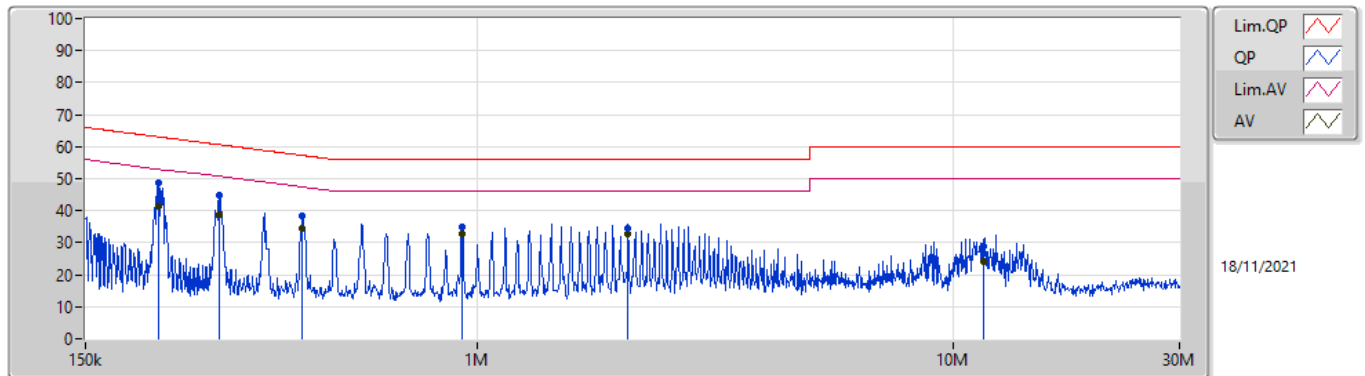
### Summary

| Mode   | Result | Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Condition |
|--------|--------|------|--------------|-----------------|-----------------|----------------|-----------|
| Mode 1 | Pass   | AV   | 286.387k     | 38.91           | 50.63           | -11.72         | Line      |
| Mode 2 | Pass   | AV   | 2.211M       | 15.49           | 46.00           | -30.51         | Neutral   |

**Result**

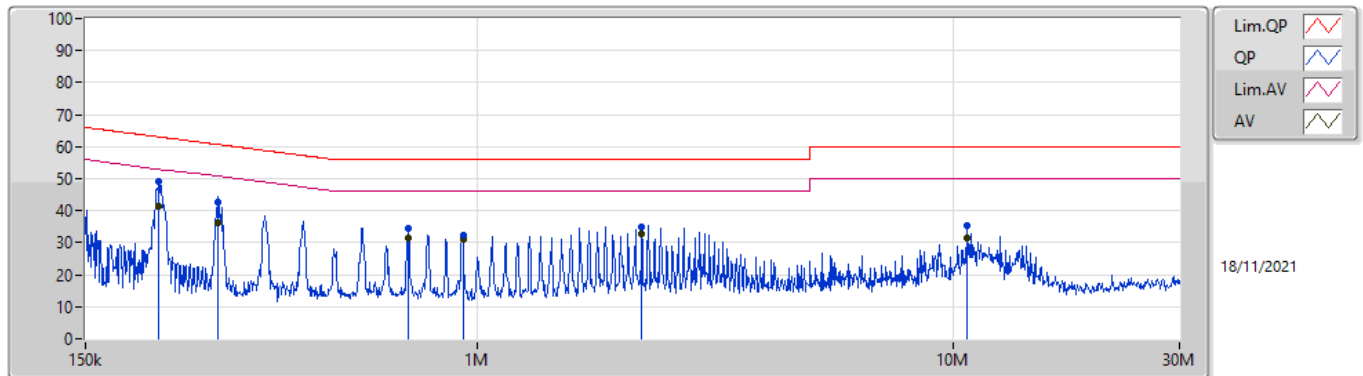
| Mode   | Result | Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Condition | Comments |
|--------|--------|------|-----------|--------------|--------------|-------------|-----------|----------|
| Mode 1 | Pass   | QP   | 213.989k  | 48.77        | 63.06        | -14.29      | Line      | -        |
| Mode 1 | Pass   | AV   | 213.989k  | 41.32        | 53.06        | -11.74      | Line      | -        |
| Mode 1 | Pass   | QP   | 286.387k  | 44.80        | 60.63        | -15.83      | Line      | -        |
| Mode 1 | Pass   | AV   | 286.387k  | 38.91        | 50.63        | -11.72      | Line      | -        |
| Mode 1 | Pass   | QP   | 428.605k  | 38.24        | 57.28        | -19.04      | Line      | -        |
| Mode 1 | Pass   | AV   | 428.605k  | 34.27        | 47.28        | -13.01      | Line      | -        |
| Mode 1 | Pass   | QP   | 929.818k  | 34.89        | 56.00        | -21.11      | Line      | -        |
| Mode 1 | Pass   | AV   | 929.818k  | 32.77        | 46.00        | -13.23      | Line      | -        |
| Mode 1 | Pass   | QP   | 2.074M    | 34.29        | 56.00        | -21.71      | Line      | -        |
| Mode 1 | Pass   | AV   | 2.074M    | 32.59        | 46.00        | -13.41      | Line      | -        |
| Mode 1 | Pass   | QP   | 11.591M   | 29.02        | 60.00        | -30.98      | Line      | -        |
| Mode 1 | Pass   | AV   | 11.591M   | 24.13        | 50.00        | -25.87      | Line      | -        |
| Mode 1 | Pass   | QP   | 213.989k  | 49.02        | 63.06        | -14.04      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 213.989k  | 41.27        | 53.06        | -11.79      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 285.246k  | 42.73        | 60.67        | -17.94      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 285.246k  | 36.35        | 50.67        | -14.32      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 714.452k  | 34.67        | 56.00        | -21.33      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 714.452k  | 31.62        | 46.00        | -14.38      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 933.537k  | 32.45        | 56.00        | -23.55      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 933.537k  | 31.03        | 46.00        | -14.97      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 2.22M     | 35.09        | 56.00        | -20.91      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 2.22M     | 32.57        | 46.00        | -13.43      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 10.744M   | 35.33        | 60.00        | -24.67      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 10.744M   | 31.48        | 50.00        | -18.52      | Neutral   | -        |
| Mode 2 | Pass   | QP   | 159.893k  | 18.49        | 65.46        | -46.97      | Line      | -        |
| Mode 2 | Pass   | AV   | 159.893k  | 15.16        | 55.46        | -40.30      | Line      | -        |
| Mode 2 | Pass   | QP   | 213.137k  | 16.82        | 63.07        | -46.25      | Line      | -        |
| Mode 2 | Pass   | AV   | 213.137k  | 14.62        | 53.07        | -38.45      | Line      | -        |
| Mode 2 | Pass   | QP   | 349.654k  | 15.87        | 58.96        | -43.09      | Line      | -        |
| Mode 2 | Pass   | AV   | 349.654k  | 12.83        | 48.96        | -36.13      | Line      | -        |
| Mode 2 | Pass   | QP   | 798.945k  | 23.47        | 56.00        | -32.53      | Line      | -        |
| Mode 2 | Pass   | AV   | 798.945k  | 13.67        | 46.00        | -32.33      | Line      | -        |
| Mode 2 | Pass   | QP   | 2.15M     | 14.64        | 56.00        | -41.36      | Line      | -        |
| Mode 2 | Pass   | AV   | 2.15M     | 13.09        | 46.00        | -32.91      | Line      | -        |
| Mode 2 | Pass   | QP   | 17.485M   | 19.45        | 60.00        | -40.55      | Line      | -        |
| Mode 2 | Pass   | AV   | 17.485M   | 14.28        | 50.00        | -35.72      | Line      | -        |
| Mode 2 | Pass   | QP   | 167.739k  | 19.00        | 65.06        | -46.06      | Neutral   | -        |
| Mode 2 | Pass   | AV   | 167.739k  | 15.66        | 55.06        | -39.40      | Neutral   | -        |
| Mode 2 | Pass   | QP   | 250.038k  | 16.46        | 61.76        | -45.30      | Neutral   | -        |
| Mode 2 | Pass   | AV   | 250.038k  | 13.79        | 51.76        | -37.97      | Neutral   | -        |
| Mode 2 | Pass   | QP   | 292.16k   | 18.19        | 60.46        | -42.27      | Neutral   | -        |
| Mode 2 | Pass   | AV   | 292.16k   | 15.54        | 50.46        | -34.92      | Neutral   | -        |
| Mode 2 | Pass   | QP   | 758.54k   | 15.97        | 56.00        | -40.03      | Neutral   | -        |
| Mode 2 | Pass   | AV   | 758.54k   | 12.31        | 46.00        | -33.69      | Neutral   | -        |
| Mode 2 | Pass   | QP   | 2.211M    | 20.04        | 56.00        | -35.96      | Neutral   | -        |
| Mode 2 | Pass   | AV   | 2.211M    | 15.49        | 46.00        | -30.51      | Neutral   | -        |
| Mode 2 | Pass   | QP   | 10.787M   | 16.59        | 60.00        | -43.41      | Neutral   | -        |
| Mode 2 | Pass   | AV   | 10.787M   | 14.78        | 50.00        | -35.22      | Neutral   | -        |

### Conducted Emissions at Powerline\_Mode 1



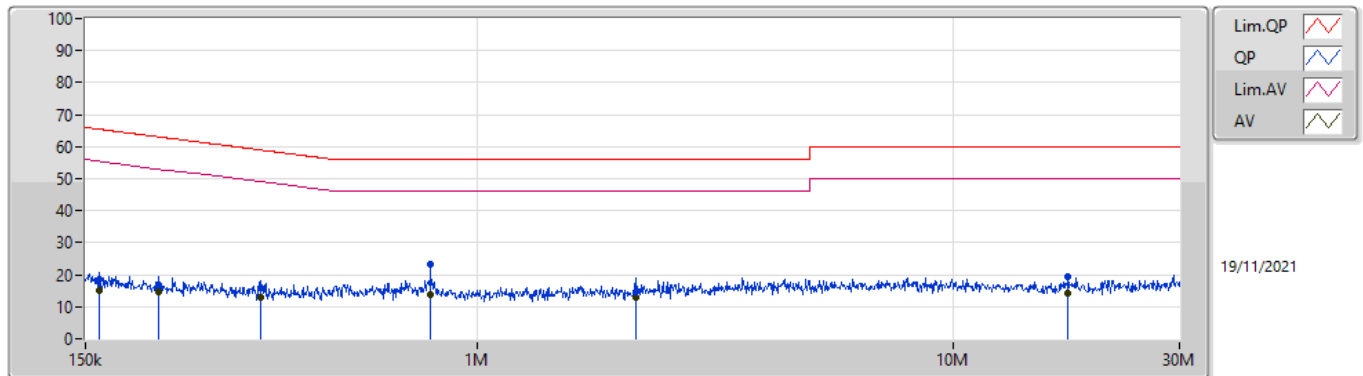
| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|
| QP   | 213.989k     | 48.77           | 63.06           | -14.29         | 19.61          | Line      | -       | 29.16         | 9.68         | 0.04       | 9.89       |  |  |  |
| AV   | 213.989k     | 41.32           | 53.06           | -11.74         | 19.61          | Line      | -       | 21.71         | 9.68         | 0.04       | 9.89       |  |  |  |
| QP   | 286.387k     | 44.80           | 60.63           | -15.83         | 19.61          | Line      | -       | 25.19         | 9.67         | 0.05       | 9.89       |  |  |  |
| AV   | 286.387k     | 38.91           | 50.63           | -11.72         | 19.61          | Line      | -       | 19.30         | 9.67         | 0.05       | 9.89       |  |  |  |
| QP   | 428.605k     | 38.24           | 57.28           | -19.04         | 19.62          | Line      | -       | 18.62         | 9.67         | 0.06       | 9.89       |  |  |  |
| AV   | 428.605k     | 34.27           | 47.28           | -13.01         | 19.62          | Line      | -       | 14.65         | 9.67         | 0.06       | 9.89       |  |  |  |
| QP   | 929.818k     | 34.89           | 56.00           | -21.11         | 19.65          | Line      | -       | 15.24         | 9.68         | 0.08       | 9.89       |  |  |  |
| AV   | 929.818k     | 32.77           | 46.00           | -13.23         | 19.65          | Line      | -       | 13.12         | 9.68         | 0.08       | 9.89       |  |  |  |
| QP   | 2.074M       | 34.29           | 56.00           | -21.71         | 19.67          | Line      | -       | 14.62         | 9.69         | 0.10       | 9.88       |  |  |  |
| AV   | 2.074M       | 32.59           | 46.00           | -13.41         | 19.67          | Line      | -       | 12.92         | 9.69         | 0.10       | 9.88       |  |  |  |
| QP   | 11.591M      | 29.02           | 60.00           | -30.98         | 19.90          | Line      | -       | 9.12          | 9.79         | 0.22       | 9.89       |  |  |  |
| AV   | 11.591M      | 24.13           | 50.00           | -25.87         | 19.90          | Line      | -       | 4.23          | 9.79         | 0.22       | 9.89       |  |  |  |

### Conducted Emissions at Powerline\_Mode 1



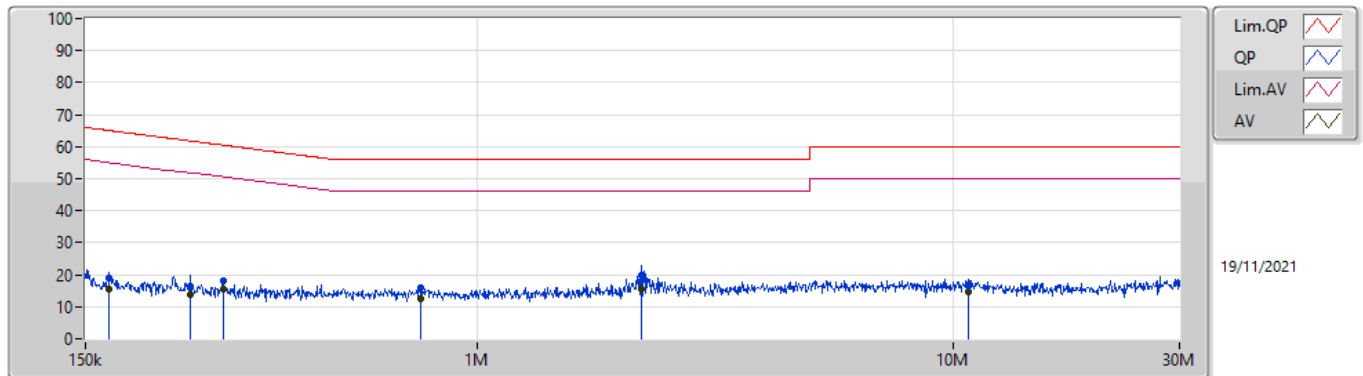
| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|--------|-----------|---------|---------------|--------------|------------|------------|--|--|--|
| QP   | 213.989k     | 49.02           | 63.06           | -14.04         | 19.61  | Neutral   | -       | 29.41         | 9.68         | 0.04       | 9.89       |  |  |  |
| AV   | 213.989k     | 41.27           | 53.06           | -11.79         | 19.61  | Neutral   | -       | 21.66         | 9.68         | 0.04       | 9.89       |  |  |  |
| QP   | 285.246k     | 42.73           | 60.67           | -17.94         | 19.61  | Neutral   | -       | 23.12         | 9.67         | 0.05       | 9.89       |  |  |  |
| AV   | 285.246k     | 36.35           | 50.67           | -14.32         | 19.61  | Neutral   | -       | 16.74         | 9.67         | 0.05       | 9.89       |  |  |  |
| QP   | 714.452k     | 34.67           | 56.00           | -21.33         | 19.63  | Neutral   | -       | 15.04         | 9.67         | 0.07       | 9.89       |  |  |  |
| AV   | 714.452k     | 31.62           | 46.00           | -14.38         | 19.63  | Neutral   | -       | 11.99         | 9.67         | 0.07       | 9.89       |  |  |  |
| QP   | 933.537k     | 32.45           | 56.00           | -23.55         | 19.64  | Neutral   | -       | 12.81         | 9.67         | 0.08       | 9.89       |  |  |  |
| AV   | 933.537k     | 31.03           | 46.00           | -14.97         | 19.64  | Neutral   | -       | 11.39         | 9.67         | 0.08       | 9.89       |  |  |  |
| QP   | 2.22M        | 35.09           | 56.00           | -20.91         | 19.67  | Neutral   | -       | 15.42         | 9.68         | 0.11       | 9.88       |  |  |  |
| AV   | 2.22M        | 32.57           | 46.00           | -13.43         | 19.67  | Neutral   | -       | 12.90         | 9.68         | 0.11       | 9.88       |  |  |  |
| QP   | 10.744M      | 35.33           | 60.00           | -24.67         | 19.92  | Neutral   | -       | 15.41         | 9.82         | 0.21       | 9.89       |  |  |  |
| AV   | 10.744M      | 31.48           | 50.00           | -18.52         | 19.92  | Neutral   | -       | 11.56         | 9.82         | 0.21       | 9.89       |  |  |  |

## Conducted Emissions at Powerline\_Mode 2



| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|
| QP   | 159.893k     | 18.49           | 65.46           | -46.97         | 19.62          | Line      | -       | -1.13         | 9.69         | 0.04       | 9.89       |  |  |  |
| AV   | 159.893k     | 15.16           | 55.46           | -40.30         | 19.62          | Line      | -       | -4.46         | 9.69         | 0.04       | 9.89       |  |  |  |
| QP   | 213.137k     | 16.82           | 63.07           | -46.25         | 19.61          | Line      | -       | -2.79         | 9.68         | 0.04       | 9.89       |  |  |  |
| AV   | 213.137k     | 14.62           | 53.07           | -38.45         | 19.61          | Line      | -       | -4.99         | 9.68         | 0.04       | 9.89       |  |  |  |
| QP   | 349.654k     | 15.87           | 58.96           | -43.09         | 19.62          | Line      | -       | -3.75         | 9.67         | 0.06       | 9.89       |  |  |  |
| AV   | 349.654k     | 12.83           | 48.96           | -36.13         | 19.62          | Line      | -       | -6.79         | 9.67         | 0.06       | 9.89       |  |  |  |
| QP   | 798.945k     | 23.47           | 56.00           | -32.53         | 19.65          | Line      | -       | 3.82          | 9.68         | 0.08       | 9.89       |  |  |  |
| AV   | 798.945k     | 13.67           | 46.00           | -32.33         | 19.65          | Line      | -       | -5.98         | 9.68         | 0.08       | 9.89       |  |  |  |
| QP   | 2.15M        | 14.64           | 56.00           | -41.36         | 19.67          | Line      | -       | -5.03         | 9.69         | 0.10       | 9.88       |  |  |  |
| AV   | 2.15M        | 13.09           | 46.00           | -32.91         | 19.67          | Line      | -       | -6.58         | 9.69         | 0.10       | 9.88       |  |  |  |
| QP   | 17.485M      | 19.45           | 60.00           | -40.55         | 19.95          | Line      | -       | -0.50         | 9.78         | 0.28       | 9.89       |  |  |  |
| AV   | 17.485M      | 14.28           | 50.00           | -35.72         | 19.95          | Line      | -       | -5.67         | 9.78         | 0.28       | 9.89       |  |  |  |

## Conducted Emissions at Powerline\_Mode 2



| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|
| QP   | 167.739k     | 19.00           | 65.06           | -46.06         | 19.62          | Neutral   | -       | -0.62         | 9.69         | 0.04       | 9.89       |  |  |  |
| AV   | 167.739k     | 15.66           | 55.06           | -39.40         | 19.62          | Neutral   | -       | -3.96         | 9.69         | 0.04       | 9.89       |  |  |  |
| QP   | 250.038k     | 16.46           | 61.76           | -45.30         | 19.62          | Neutral   | -       | -3.16         | 9.68         | 0.05       | 9.89       |  |  |  |
| AV   | 250.038k     | 13.79           | 51.76           | -37.97         | 19.62          | Neutral   | -       | -5.83         | 9.68         | 0.05       | 9.89       |  |  |  |
| QP   | 292.16k      | 18.19           | 60.46           | -42.27         | 19.61          | Neutral   | -       | -1.42         | 9.67         | 0.05       | 9.89       |  |  |  |
| AV   | 292.16k      | 15.54           | 50.46           | -34.92         | 19.61          | Neutral   | -       | -4.07         | 9.67         | 0.05       | 9.89       |  |  |  |
| QP   | 758.54k      | 15.97           | 56.00           | -40.03         | 19.63          | Neutral   | -       | -3.66         | 9.67         | 0.07       | 9.89       |  |  |  |
| AV   | 758.54k      | 12.31           | 46.00           | -33.69         | 19.63          | Neutral   | -       | -7.32         | 9.67         | 0.07       | 9.89       |  |  |  |
| QP   | 2.211M       | 20.04           | 56.00           | -35.96         | 19.67          | Neutral   | -       | 0.37          | 9.68         | 0.11       | 9.88       |  |  |  |
| AV   | 2.211M       | 15.49           | 46.00           | -30.51         | 19.67          | Neutral   | -       | -4.18         | 9.68         | 0.11       | 9.88       |  |  |  |
| QP   | 10.787M      | 16.59           | 60.00           | -43.41         | 19.92          | Neutral   | -       | -3.33         | 9.82         | 0.21       | 9.89       |  |  |  |
| AV   | 10.787M      | 14.78           | 50.00           | -35.22         | 19.92          | Neutral   | -       | -5.14         | 9.82         | 0.21       | 9.89       |  |  |  |

**Summary**

| Mode          | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|---------------|------------------|-----------------|----------|------------------|-----------------|
| 2.4-2.4835GHz | -                | -               | -        | -                | -               |
| BT-BR(1Mbps)  | 935k             | 882.059k        | 882KF1D  | 933.75k          | 877.061k        |
| BT-EDR(2Mbps) | 1.329M           | 1.214M          | 1M21G1D  | 1.324M           | 1.199M          |
| BT-EDR(3Mbps) | 1.315M           | 1.211M          | 1M21G1D  | 1.314M           | 1.206M          |

Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

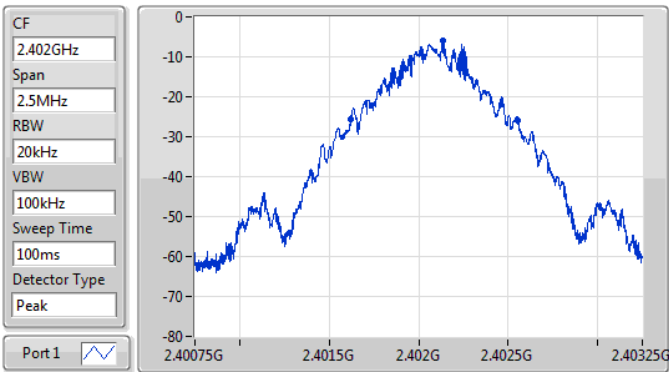
**Result**

| Mode          | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) |
|---------------|--------|---------------|---------------------|--------------------|
| BT-BR(1Mbps)  | -      | -             | -                   | -                  |
| 2402MHz       | Pass   | Inf           | 935k                | 877.061k           |
| 2440MHz       | Pass   | Inf           | 935k                | 882.059k           |
| 2480MHz       | Pass   | Inf           | 933.75k             | 880.81k            |
| BT-EDR(2Mbps) | -      | -             | -                   | -                  |
| 2402MHz       | Pass   | Inf           | 1.325M              | 1.199M             |
| 2440MHz       | Pass   | Inf           | 1.324M              | 1.207M             |
| 2480MHz       | Pass   | Inf           | 1.329M              | 1.214M             |
| BT-EDR(3Mbps) | -      | -             | -                   | -                  |
| 2402MHz       | Pass   | Inf           | 1.314M              | 1.211M             |
| 2440MHz       | Pass   | Inf           | 1.314M              | 1.211M             |
| 2480MHz       | Pass   | Inf           | 1.315M              | 1.206M             |

Port X-N dB = Port X 20dB down bandwidth;  
 Port X-OBW = Port X 99% occupied bandwidth

BT-BR(1Mbps)

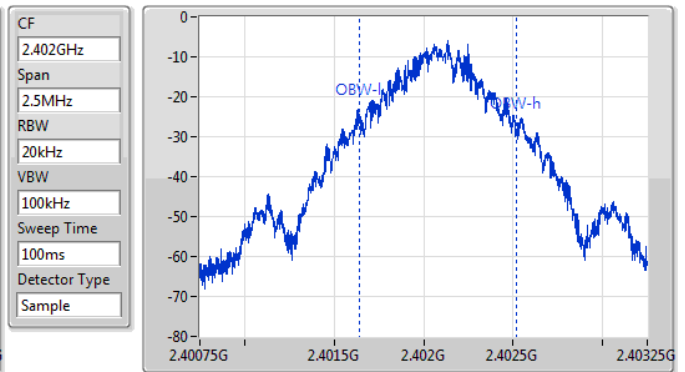
2402MHz



| 20dB(Hz) | FI-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz)  | FI-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|----------|------------|------------|-----------|------|
| 935k     | 2.401621G   | 2.402556G   | 877.061k | 2.401639G  | 2.402516G  | Inf       | 1    |

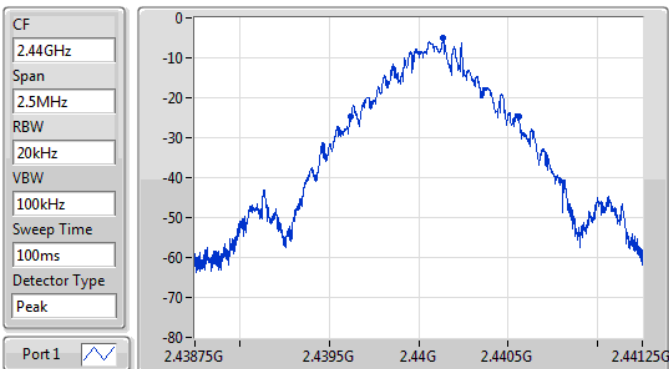
EBW-FS

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BT-BR(1Mbps)

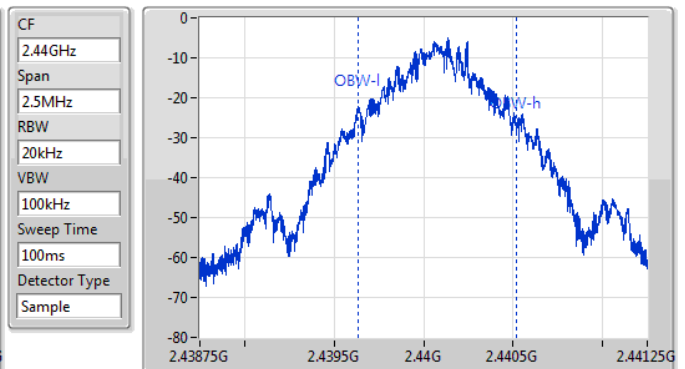
2440MHz



| 20dB(Hz) | FI-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz)  | FI-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|----------|------------|------------|-----------|------|
| 935k     | 2.439623G   | 2.440558G   | 882.059k | 2.439636G  | 2.440518G  | Inf       | 1    |

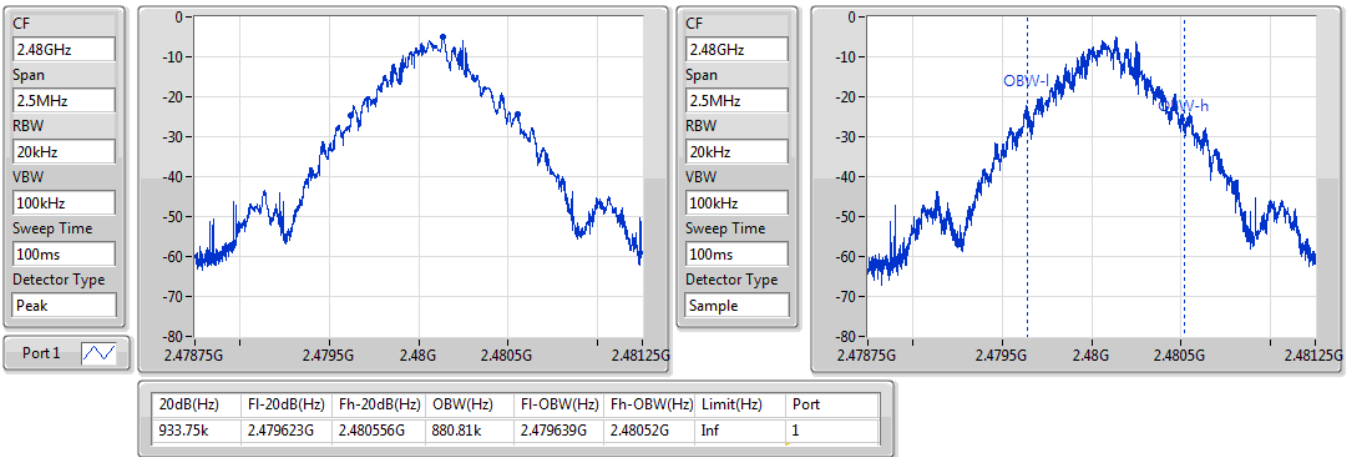
EBW-FS

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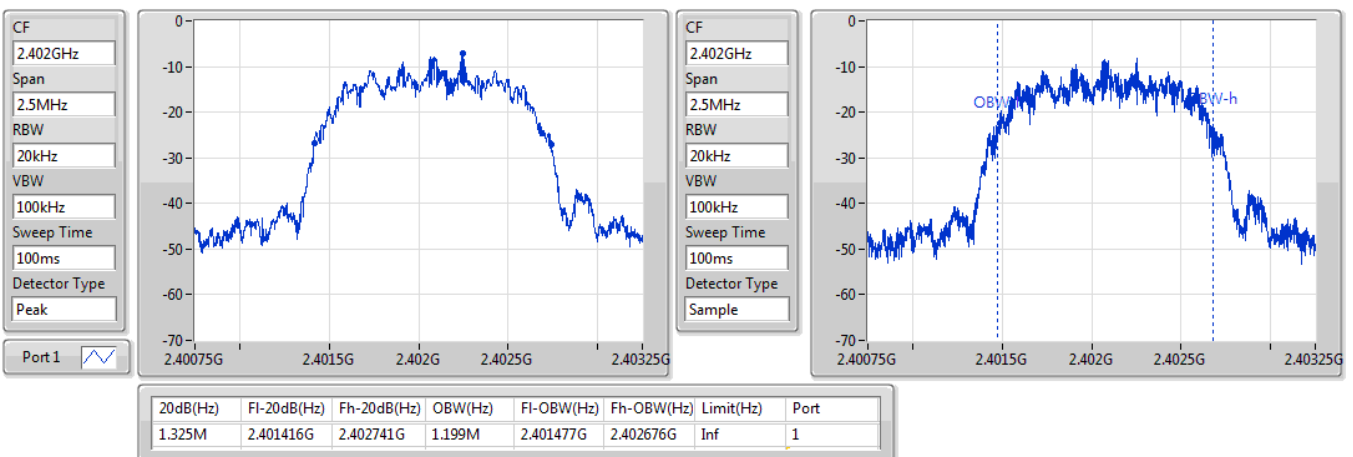


**BT-BR(1Mbps)**
**EBW-FS**
**2480MHz**

22/11/2021

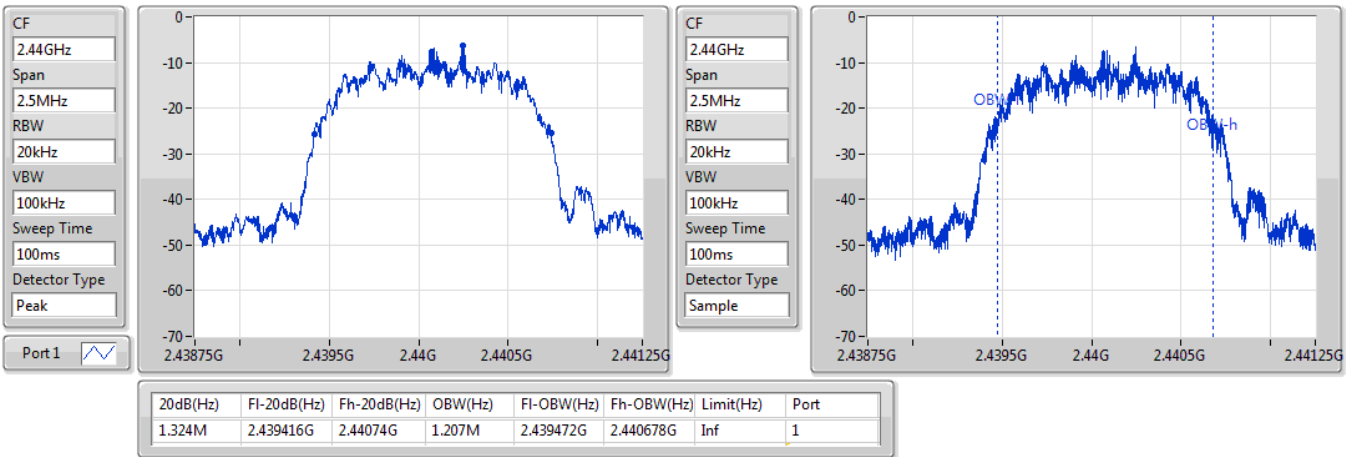

**BT-EDR(2Mbps)**
**EBW-FS**
**2402MHz**

22/11/2021

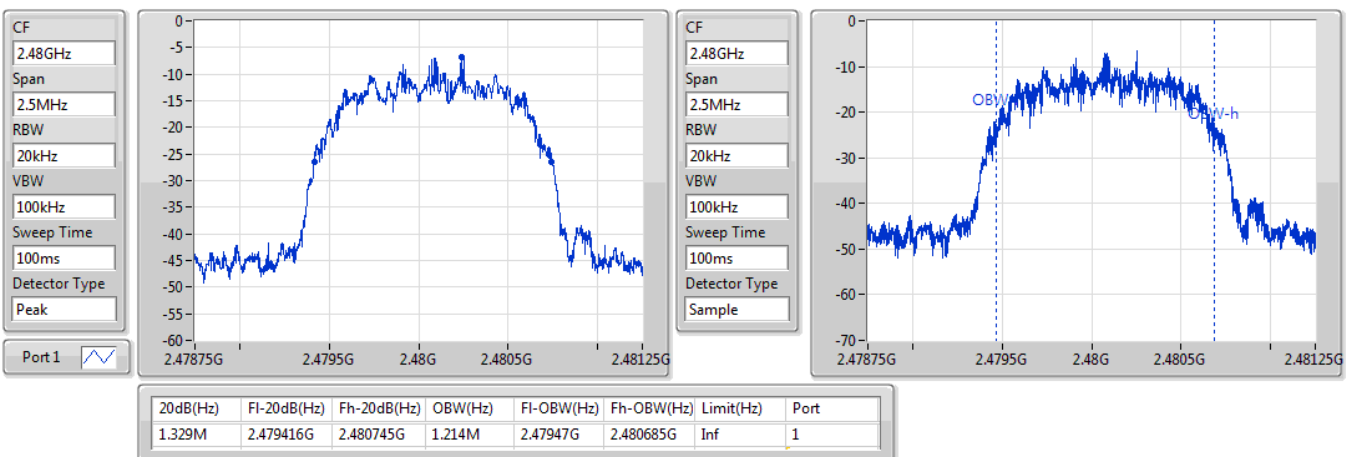


**BT-EDR(2Mbps)**
**EBW-FS**
**2440MHz**

22/11/2021

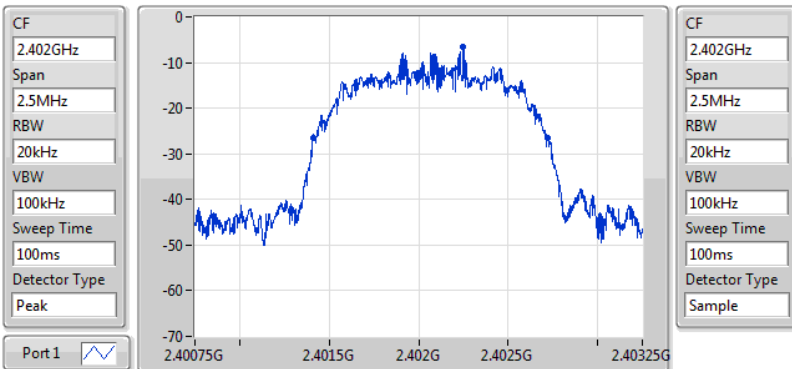

**BT-EDR(2Mbps)**
**EBW-FS**
**2480MHz**

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## BT-EDR(3Mbps)

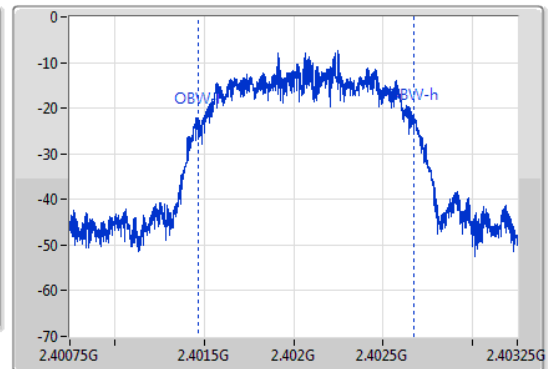
2402MHz



| 20dB(Hz) | Fl-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 1.314M   | 2.401409G   | 2.402723G   | 1.211M  | 2.401464G  | 2.402675G  | Inf       | 1    |

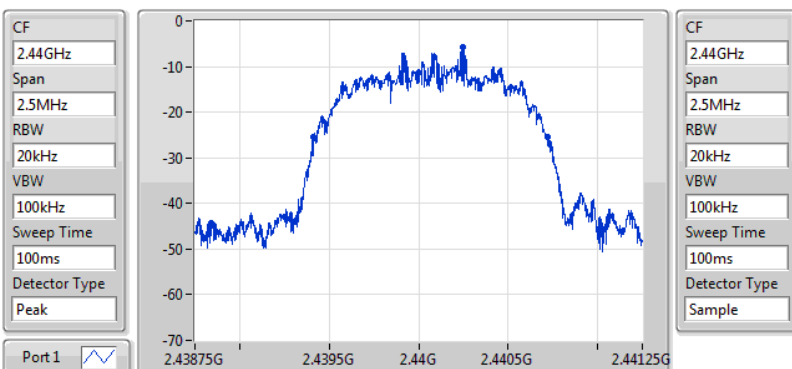
## EBW-FS

22/11/2021



## BT-EDR(3Mbps)

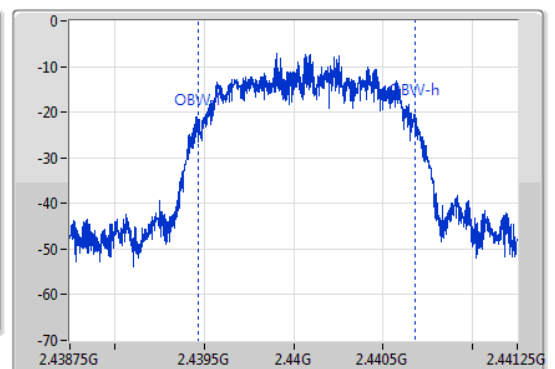
2440MHz



| 20dB(Hz) | Fl-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 1.314M   | 2.43941G    | 2.440724G   | 1.211M  | 2.439467G  | 2.440677G  | Inf       | 1    |

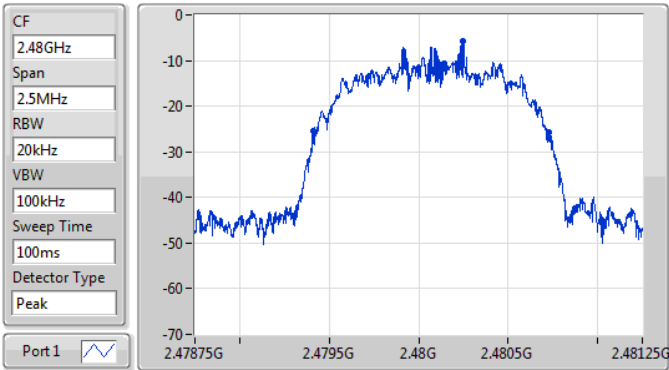
## EBW-FS

22/11/2021



## BT-EDR(3Mbps)

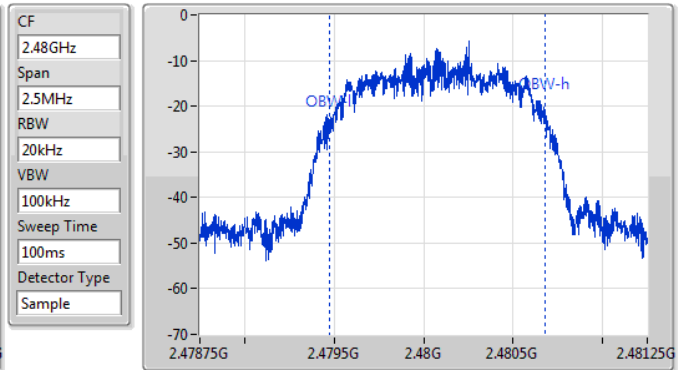
2480MHz



| 20dB(Hz) | Fl-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 1.315M   | 2.479411G   | 2.480726G   | 1.206M  | 2.479473G  | 2.480678G  | Inf       | 1    |

## EBW-FS

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**Summary**

| Mode          | Max-Space<br>(Hz) | Min-Space<br>(Hz) |
|---------------|-------------------|-------------------|
| 2.4-2.4835GHz | -                 | -                 |
| BT-BR(1Mbps)  | 1.0005M           | 1.0005M           |
| BT-EDR(2Mbps) | 1.0005M           | 997.5k            |
| BT-EDR(3Mbps) | 1.0035M           | 999k              |

## Result

| Mode          | Result | Fl<br>(Hz) | Fh<br>(Hz) | Ch.Space<br>(Hz) | Limit<br>(Hz) |
|---------------|--------|------------|------------|------------------|---------------|
| BT-BR(1Mbps)  | -      | -          | -          | -                | -             |
| 2402MHz       | Pass   | 2.402245G  | 2.403246G  | 1.0005M          | 622.71k       |
| 2440MHz       | Pass   | 2.440245G  | 2.441246G  | 1.0005M          | 622.71k       |
| 2480MHz       | Pass   | 2.479245G  | 2.480246G  | 1.0005M          | 621.8775k     |
| BT-EDR(2Mbps) | -      | -          | -          | -                | -             |
| 2402MHz       | Pass   | 2.402082G  | 2.403082G  | 1.0005M          | 882.45k       |
| 2440MHz       | Pass   | 2.440083G  | 2.441084G  | 1.0005M          | 881.784k      |
| 2480MHz       | Pass   | 2.479085G  | 2.480082G  | 997.5k           | 885.114k      |
| BT-EDR(3Mbps) | -      | -          | -          | -                | -             |
| 2402MHz       | Pass   | 2.402242G  | 2.403244G  | 1.002M           | 875.124k      |
| 2440MHz       | Pass   | 2.440244G  | 2.441243G  | 999k             | 875.124k      |
| 2480MHz       | Pass   | 2.479245G  | 2.480249G  | 1.0035M          | 875.79k       |

BT-BR(1Mbps)

2.402G/2.403GHz

Channel Separation-FS

22/11/2021

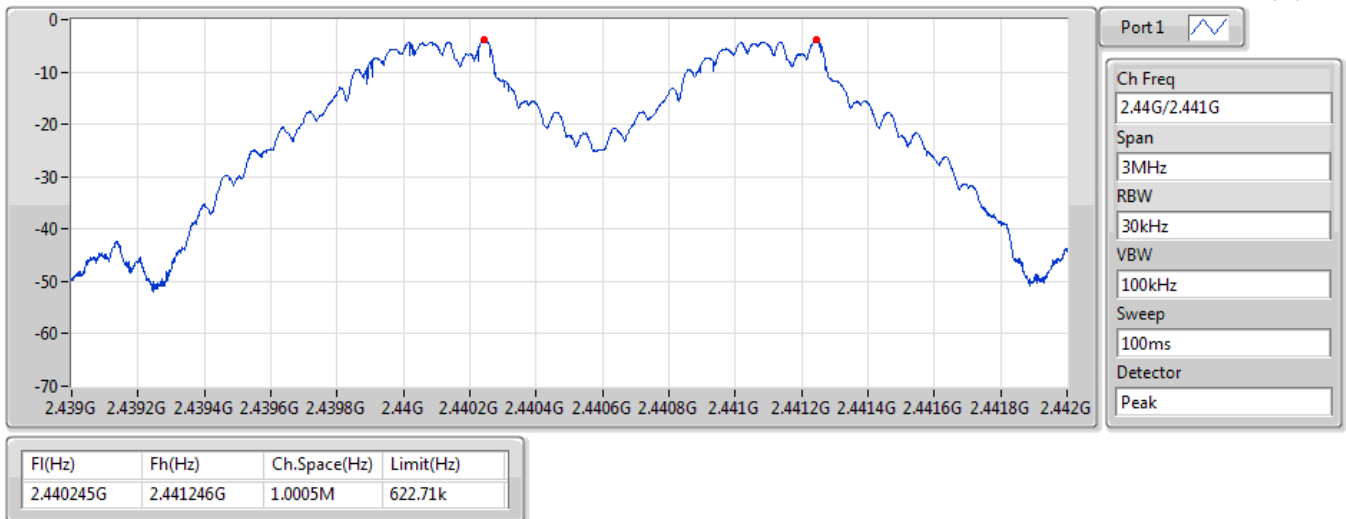


BT-BR(1Mbps)

2.44G/2.441GHz

Channel Separation-FS

22/11/2021



## BT-BR(1Mbps)

2.48G/2.479GHz

## Channel Separation-FS

22/11/2021

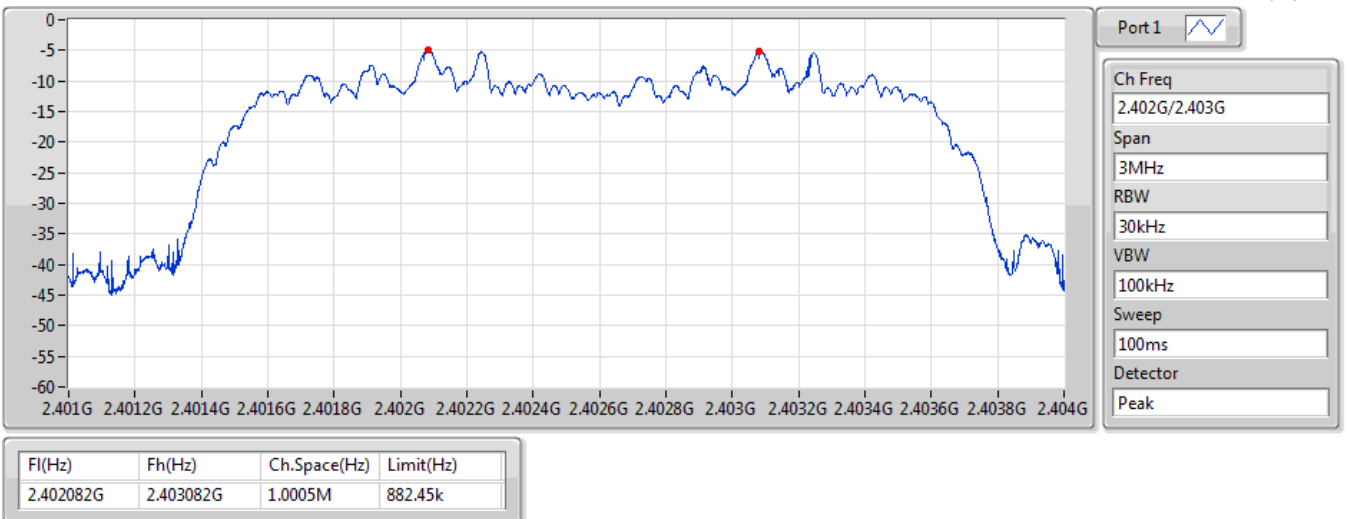


## BT-EDR(2Mbps)

2.402G/2.403GHz

## Channel Separation-FS

22/11/2021

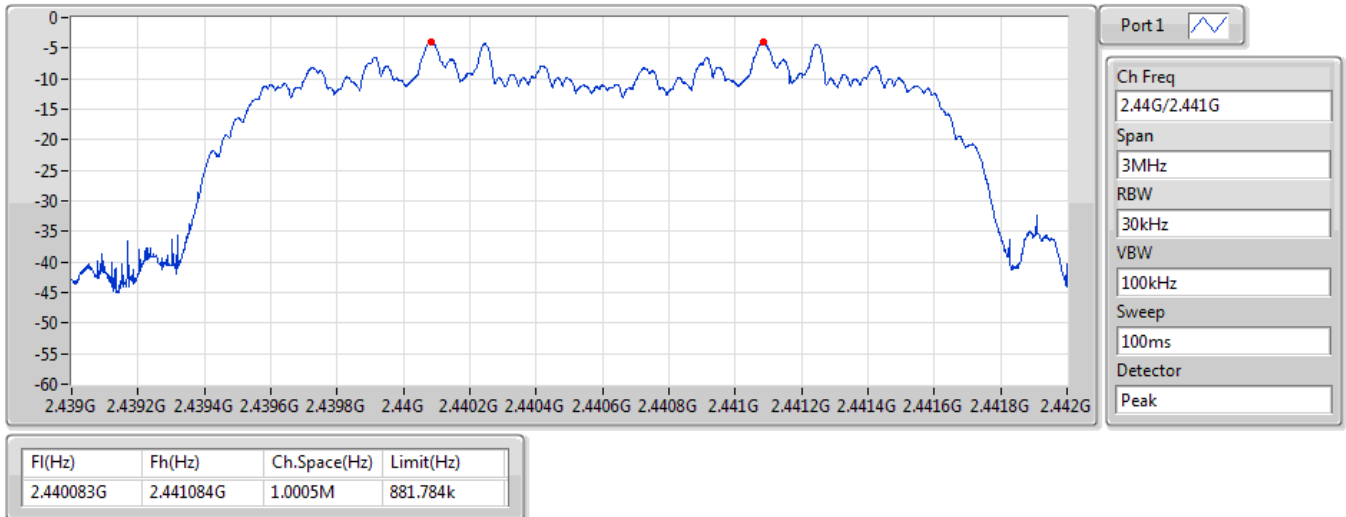


## BT-EDR(2Mbps)

2.44G/2.441GHz

## Channel Separation-FS

22/11/2021

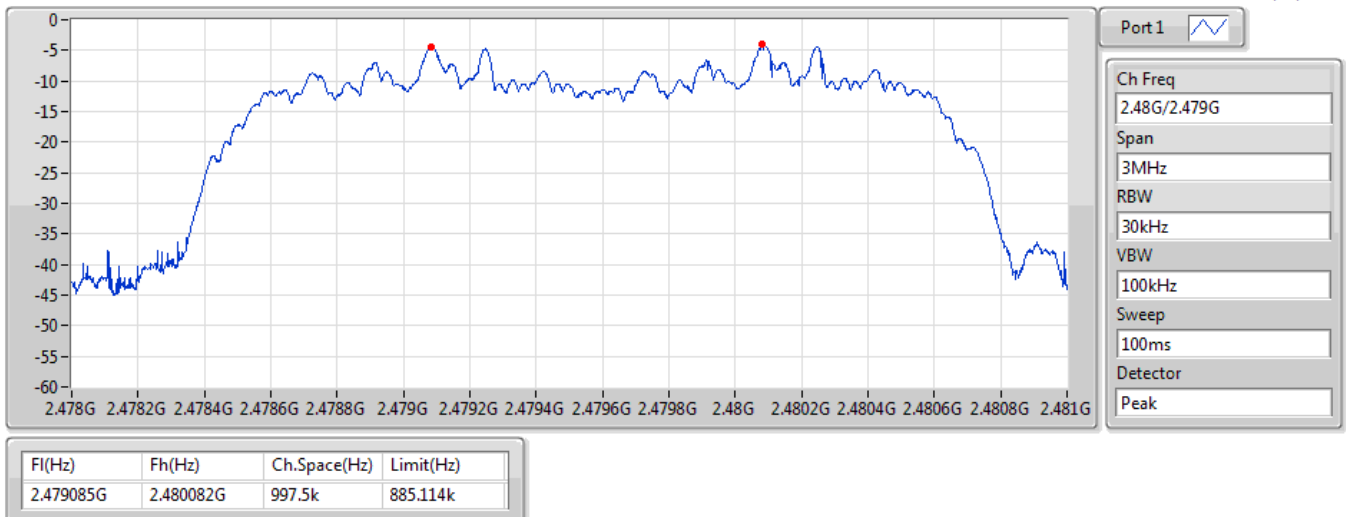


## BT-EDR(2Mbps)

2.48G/2.479GHz

## Channel Separation-FS

22/11/2021

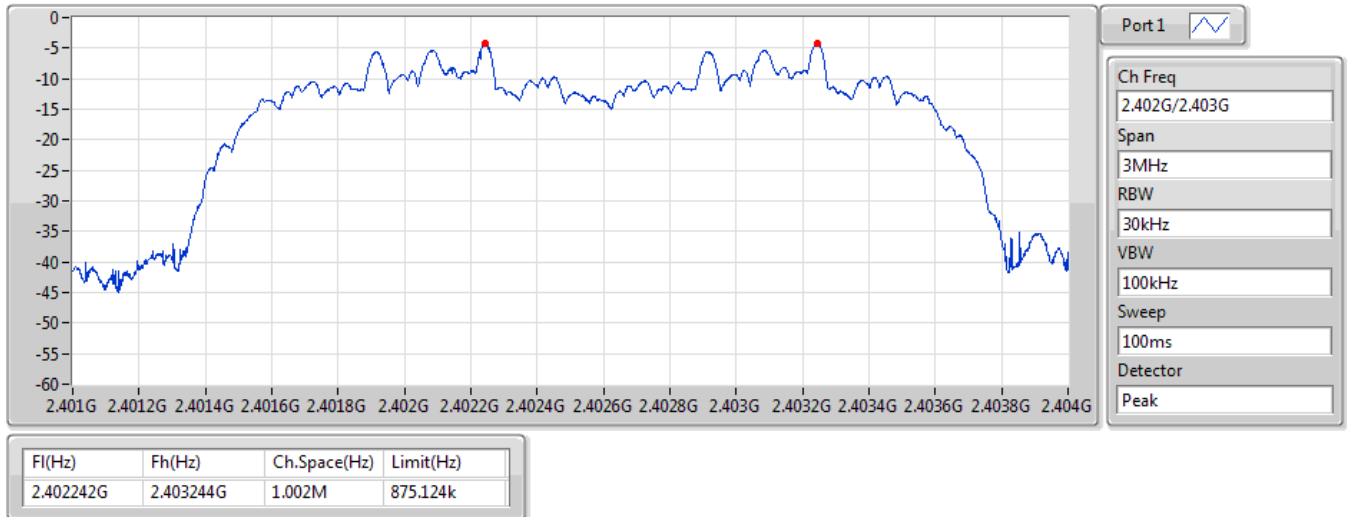


## BT-EDR(3Mbps)

2.402G/2.403GHz

## Channel Separation-FS

22/11/2021

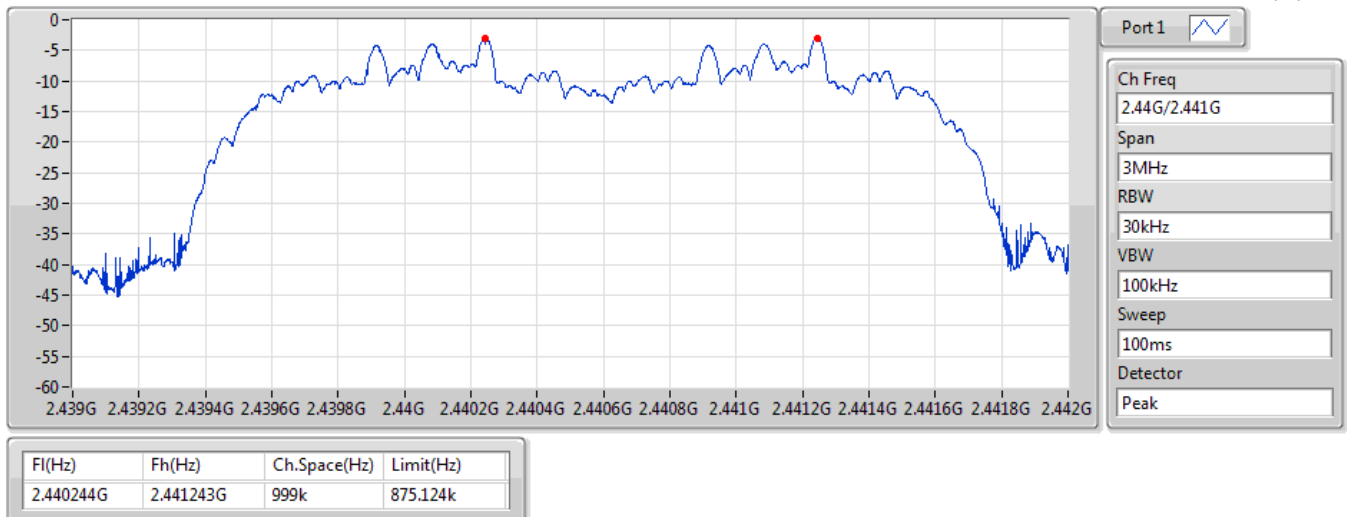


## BT-EDR(3Mbps)

2.44G/2.441GHz

## Channel Separation-FS

22/11/2021

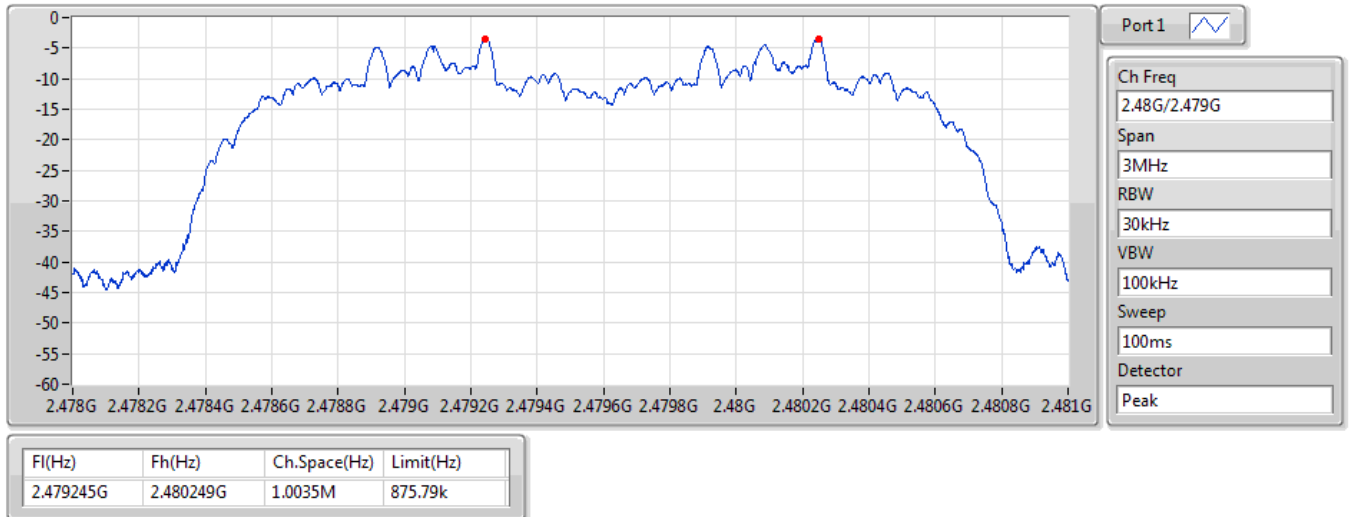


## BT-EDR(3Mbps)

2.48G/2.479GHz

## Channel Separation-FS

22/11/2021





**Summary**

| Mode          | Power<br>(dBm) | Power<br>(W) |
|---------------|----------------|--------------|
| 2.4-2.4835GHz | -              | -            |
| BT-BR(1Mbps)  | -1.26          | 0.00075      |
| BT-EDR(2Mbps) | 0.63           | 0.00116      |
| BT-EDR(3Mbps) | 1.67           | 0.00147      |

**Result**

| Mode          | Result | Gain<br>(dBi) | Power<br>(dBm) | Power Limit<br>(dBm) |
|---------------|--------|---------------|----------------|----------------------|
| BT-BR(1Mbps)  | -      | -             | -              | -                    |
| 2402MHz       | Pass   | 2.00          | -2.22          | 21.00                |
| 2440MHz       | Pass   | 2.00          | -1.26          | 21.00                |
| 2480MHz       | Pass   | 2.00          | -1.41          | 21.00                |
| BT-EDR(2Mbps) | -      | -             | -              | -                    |
| 2402MHz       | Pass   | 2.00          | 0.24           | 21.00                |
| 2440MHz       | Pass   | 2.00          | -1.29          | 21.00                |
| 2480MHz       | Pass   | 2.00          | 0.63           | 21.00                |
| BT-EDR(3Mbps) | -      | -             | -              | -                    |
| 2402MHz       | Pass   | 2.00          | 0.99           | 21.00                |
| 2440MHz       | Pass   | 2.00          | 1.67           | 21.00                |
| 2480MHz       | Pass   | 2.00          | 1.04           | 21.00                |

DG = Directional Gain; Port X = Port X output power



**Summary**

| Mode          | Power<br>(dBm) | Power<br>(W) |
|---------------|----------------|--------------|
| 2.4-2.4835GHz | -              | -            |
| BT-BR(1Mbps)  | -1.34          | 0.00073      |
| BT-EDR(2Mbps) | -1.37          | 0.00073      |
| BT-EDR(3Mbps) | -1.33          | 0.00074      |



**Result**

| Mode          | Result | Gain<br>(dBi) | Power<br>(dBm) | Power Limit<br>(dBm) |
|---------------|--------|---------------|----------------|----------------------|
| BT-BR(1Mbps)  | -      | -             | -              | -                    |
| 2402MHz       | Pass   | 2.00          | -2.30          | 21.00                |
| 2440MHz       | Pass   | 2.00          | -1.34          | 21.00                |
| 2480MHz       | Pass   | 2.00          | -1.45          | 21.00                |
| BT-EDR(2Mbps) | -      | -             | -              | -                    |
| 2402MHz       | Pass   | 2.00          | -2.30          | 21.00                |
| 2440MHz       | Pass   | 2.00          | -1.37          | 21.00                |
| 2480MHz       | Pass   | 2.00          | -1.57          | 21.00                |
| BT-EDR(3Mbps) | -      | -             | -              | -                    |
| 2402MHz       | Pass   | 2.00          | -2.23          | 21.00                |
| 2440MHz       | Pass   | 2.00          | -1.33          | 21.00                |
| 2480MHz       | Pass   | 2.00          | -1.60          | 21.00                |

DG = Directional Gain; Port X = Port X output power



**Summary**

| Mode          | Max-Hop No |
|---------------|------------|
| 2.4-2.4835GHz | -          |
| BT-BR(1Mbps)  | 79         |
| BT-EDR(2Mbps) | 79         |
| BT-EDR(3Mbps) | 79         |



**Result**

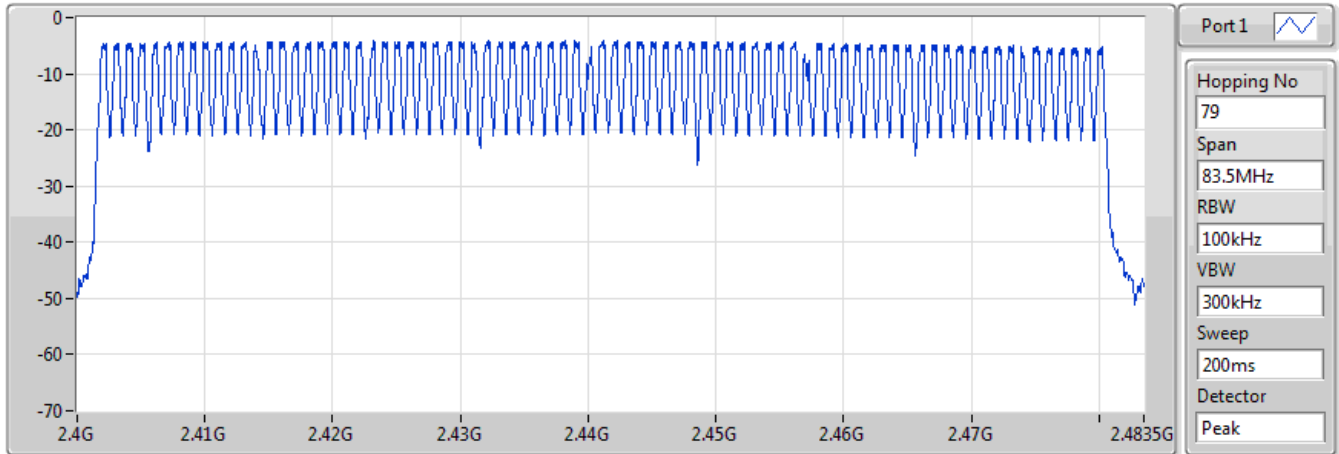
| Mode          | Result | Hopping No | Limit |
|---------------|--------|------------|-------|
| BT-BR(1Mbps)  | -      | -          | -     |
| 2440MHz       | Pass   | 79         | 15    |
| BT-EDR(2Mbps) | -      | -          | -     |
| 2440MHz       | Pass   | 79         | 15    |
| BT-EDR(3Mbps) | -      | -          | -     |
| 2440MHz       | Pass   | 79         | 15    |

**BT-BR(1Mbps)**

**2440MHz**

**Hopping-FS**

22/11/2021



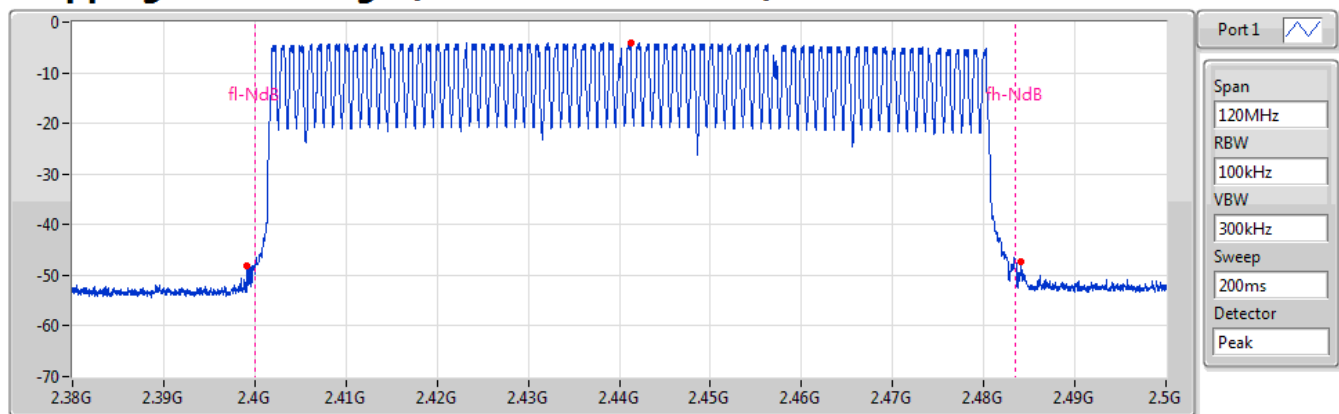
| Hopping No | Limit |
|------------|-------|
| 79         | 15    |

**BT-BR(1Mbps)**

**2440MHz**

**Hopping Ch Bandedge (Non-restricted Band)**

22/11/2021



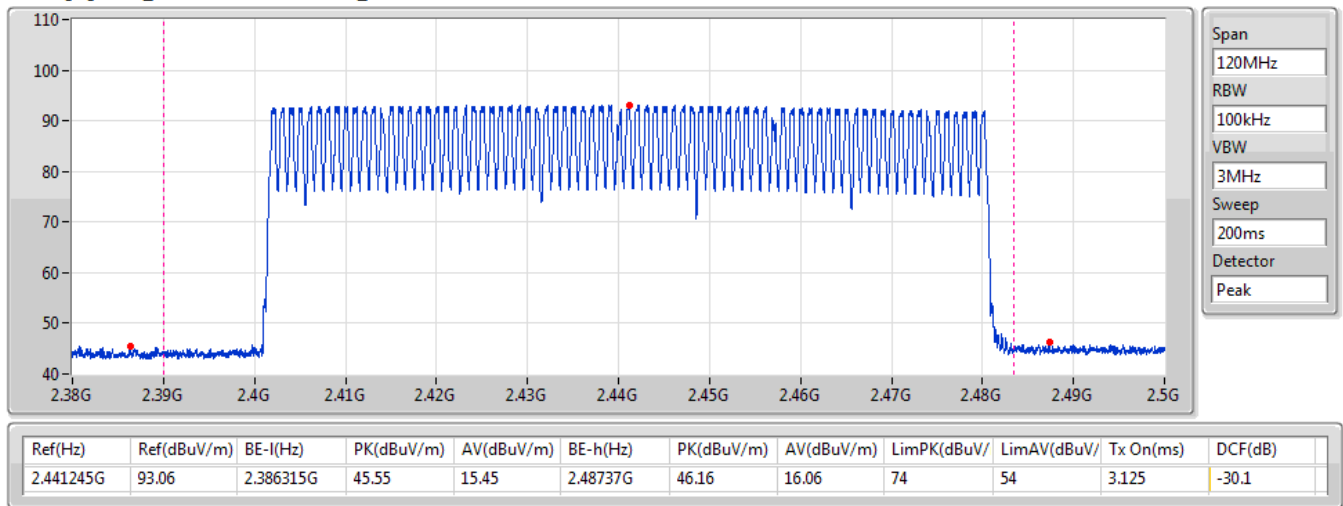
| Limit(dBm) | Ref(Hz)   | Ref(dBm) | BE-l(Hz) | BE-l(dBm) | BE-h(Hz)  | BE-h(dBm) |
|------------|-----------|----------|----------|-----------|-----------|-----------|
| -24.13     | 2.441245G | -4.13    | 2.39917G | -47.99    | 2.484085G | -47.39    |

## BT-BR(1Mbps)

2440MHz

## Hopping Ch Bandedge (Restricted Band)

22/11/2021

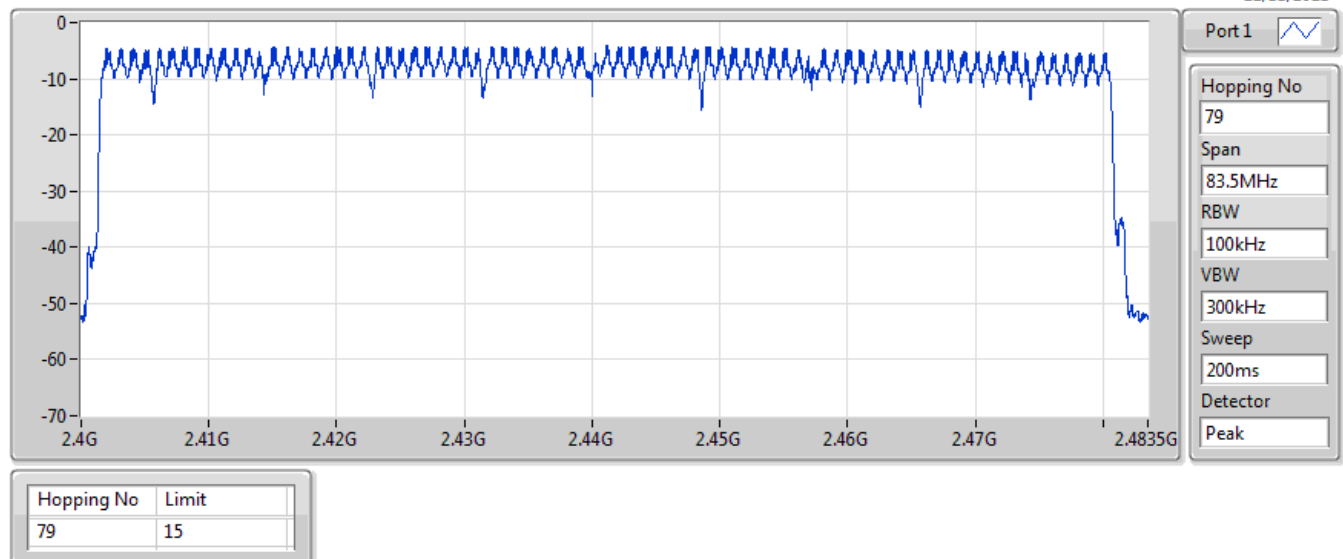


## BT-EDR(2Mbps)

2440MHz

## Hopping-FS

22/11/2021

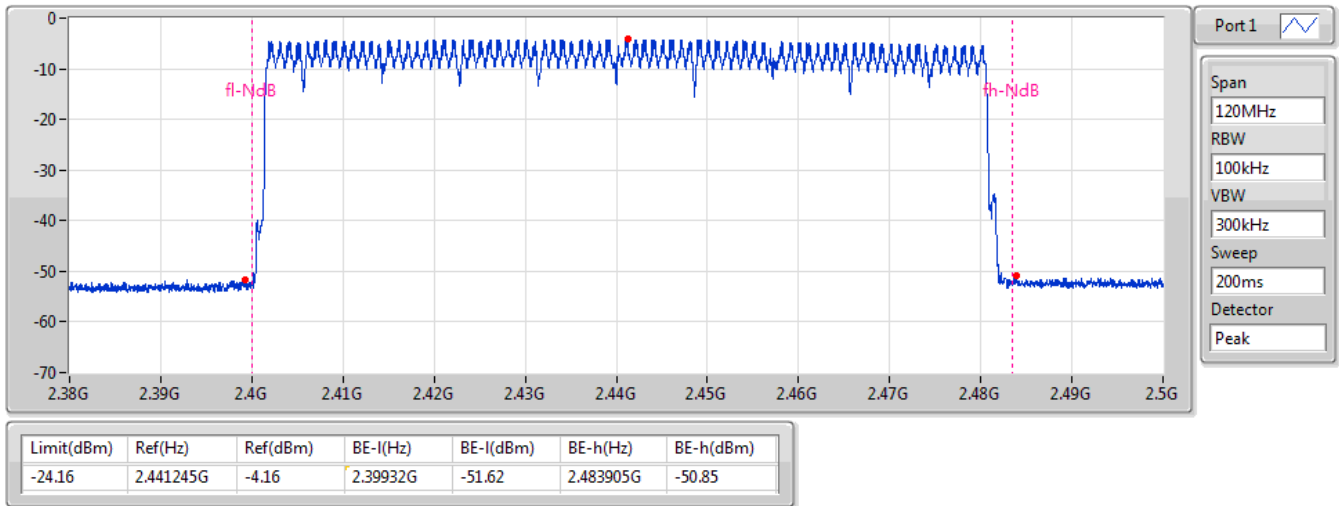


## BT-EDR(2Mbps)

2440MHz

## Hopping Ch Bandedge (Non-restricted Band)

22/11/2021

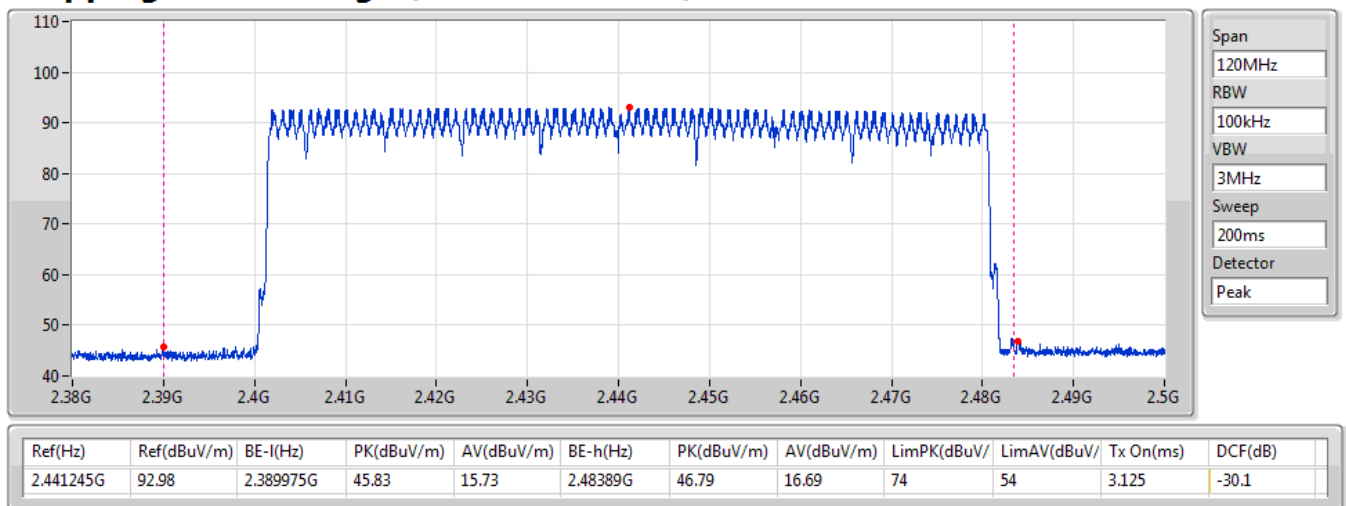


## BT-EDR(2Mbps)

2440MHz

## Hopping Ch Bandedge (Restricted Band)

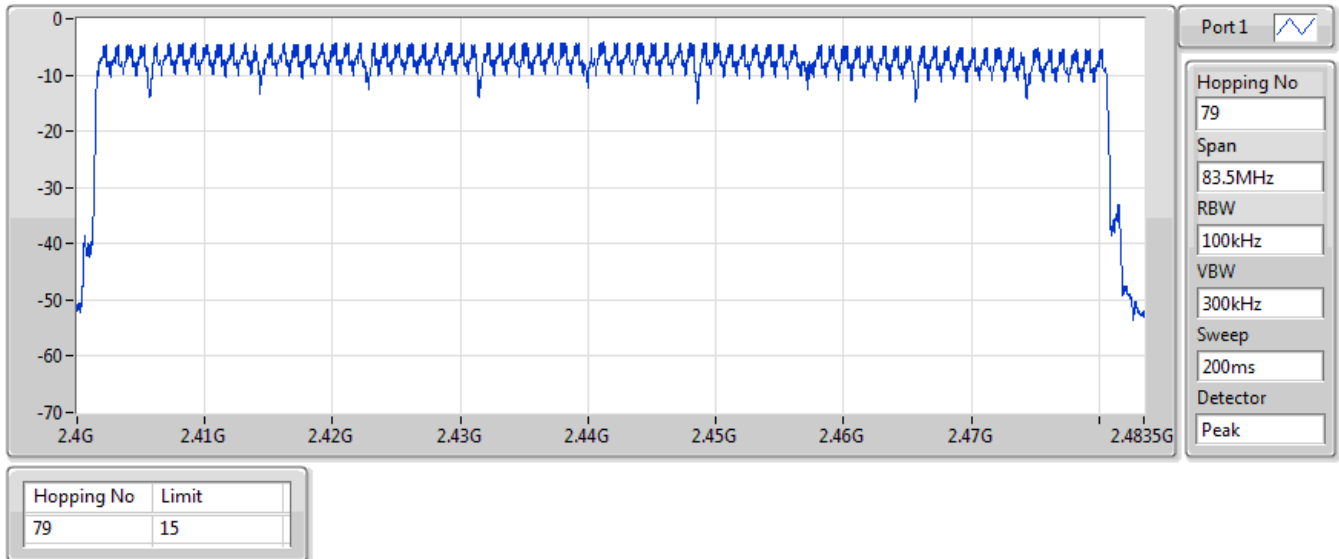
22/11/2021



### BT-EDR(3Mbps) 2440MHz

### Hopping-FS

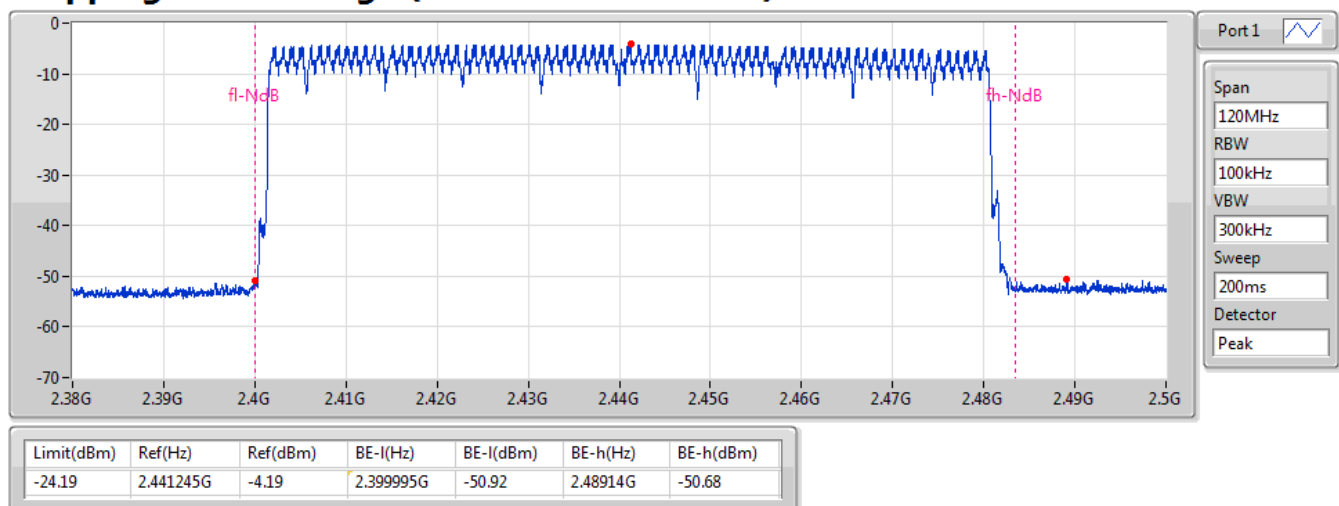
22/11/2021



### BT-EDR(3Mbps) 2440MHz

### Hopping Ch Bandedge (Non-restricted Band)

22/11/2021

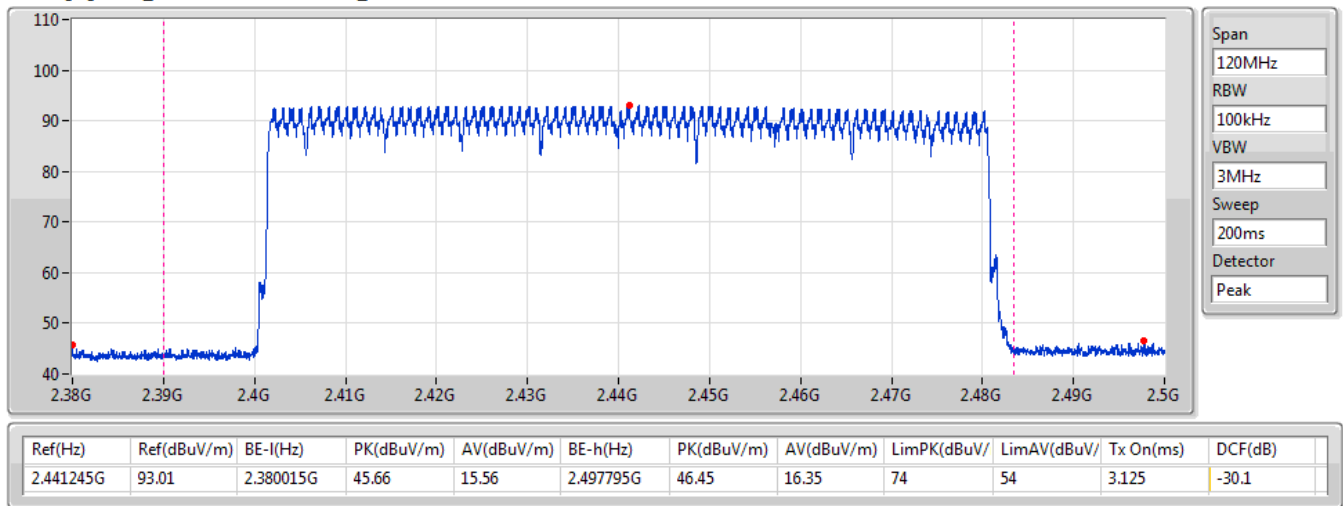


**BT-EDR(3Mbps)**

**2440MHz**

**Hopping Ch Bandedge (Restricted Band)**

22/11/2021





**Summary**

| Mode          | Max-Dwell<br>(s) |
|---------------|------------------|
| 2.4-2.4835GHz | -                |
| BT-BR(1Mbps)  | 308.4471m_DH5    |
| BT-EDR(2Mbps) | 307.8075m_DH5    |
| BT-EDR(3Mbps) | 309.3532m_DH5    |

**Result**

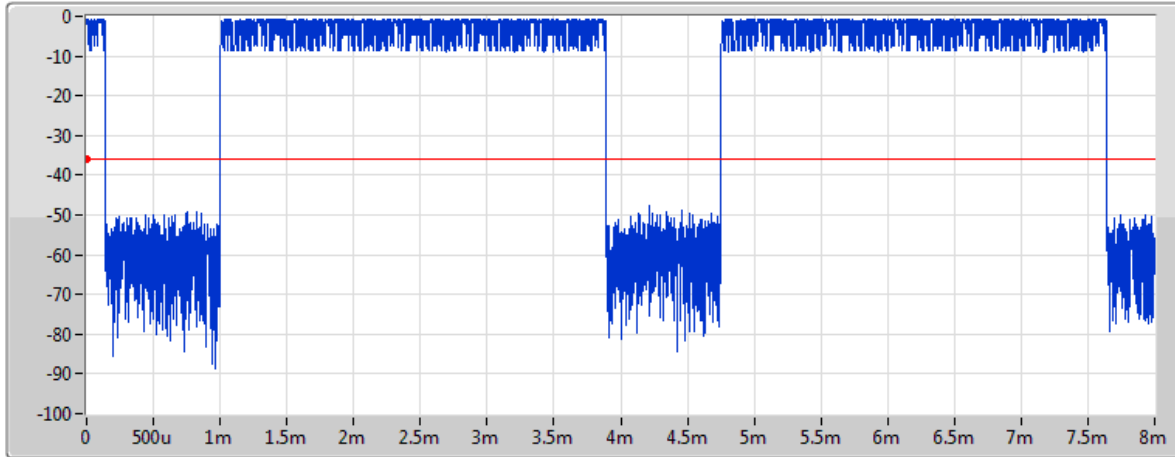
| Mode          | Result | Period<br>(s) | Dwell<br>(s)       | Limit<br>(s) | Tx On<br>(s) |
|---------------|--------|---------------|--------------------|--------------|--------------|
| BT-BR(1Mbps)  | -      | -             | -                  | -            | -            |
| 2440MHz       | Pass   | 31.6          | 308.4471m_DH5      | 400m         | 2.8935m      |
| 2440MHz       | Pass   | 8             | 154.22355m_DH5-AFH | 400m         | 2.8935m      |
| BT-EDR(2Mbps) | -      | -             | -                  | -            | -            |
| 2440MHz       | Pass   | 31.6          | 307.8075m_DH5      | 400m         | 2.8875m      |
| 2440MHz       | Pass   | 8             | 153.90375m_DH5-AFH | 400m         | 2.8875m      |
| BT-EDR(3Mbps) | -      | -             | -                  | -            | -            |
| 2440MHz       | Pass   | 31.6          | 309.3532m_DH5      | 400m         | 2.902m       |
| 2440MHz       | Pass   | 8             | 154.6766m_DH5-AFH  | 400m         | 2.902m       |

BT-BR(1Mbps)

Dwell-FS

2440MHz

22/11/2021



Port 1 

Ch Freq  
2.44GHz

RBW  
300kHz

VBW  
1MHz

Sweep Time  
8ms

TX Time  
2.8935ms

| Period(s) | Dwell(s)      | Limit(s) | Tx On(s) |
|-----------|---------------|----------|----------|
| 31.6      | 308.4471m_DH5 | 400m     | 2.8935m  |

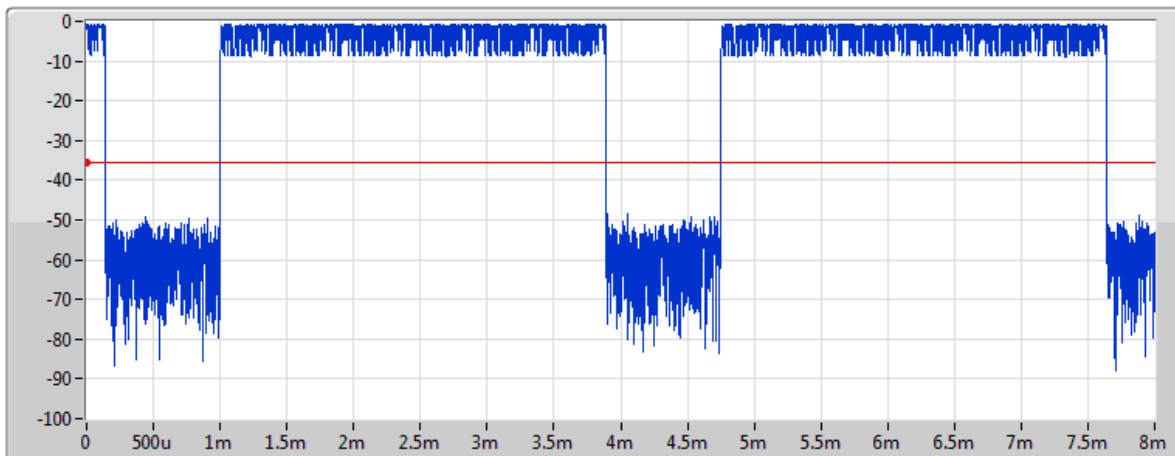
DH5

BT-BR(1Mbps)

Dwell-FS

2440MHz

22/11/2021



Port 1 

Ch Freq  
2.44GHz

RBW  
300kHz

VBW  
1MHz

Sweep Time  
8ms

TX Time  
2.8935ms

| Period(s) | Dwell(s)           | Limit(s) | Tx On(s) |
|-----------|--------------------|----------|----------|
| 8         | 154.22355m_DH5-AFH | 400m     | 2.8935m  |

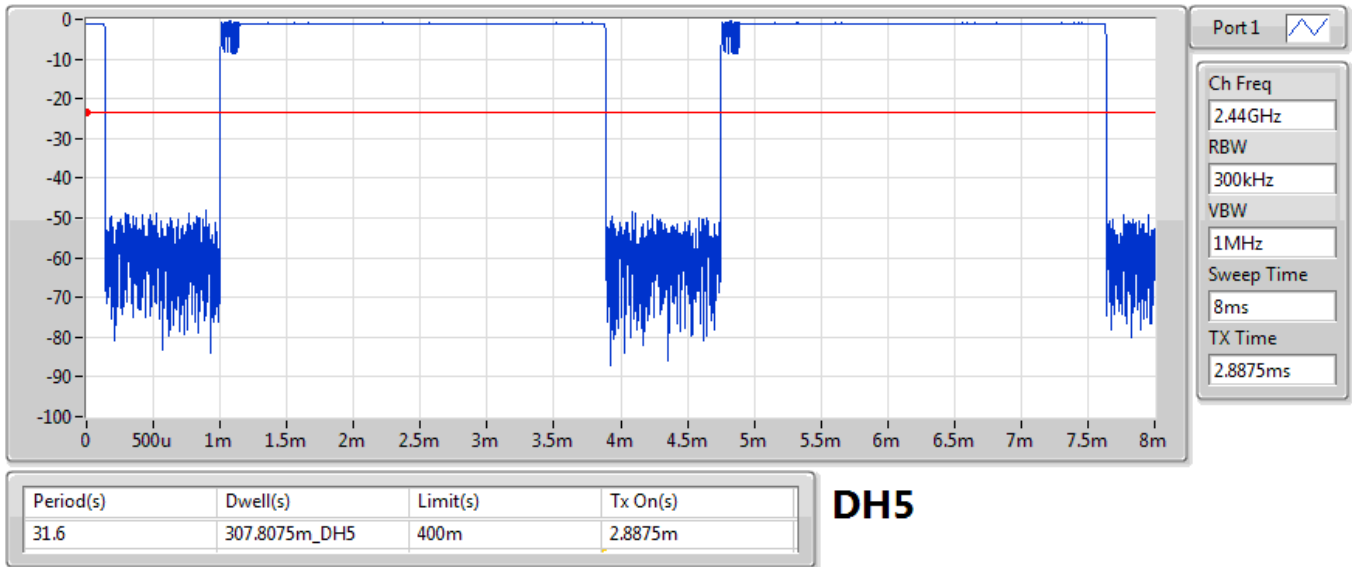
DH5-AFH

## BT-EDR(2Mbps)

2440MHz

## Dwell-FS

22/11/2021

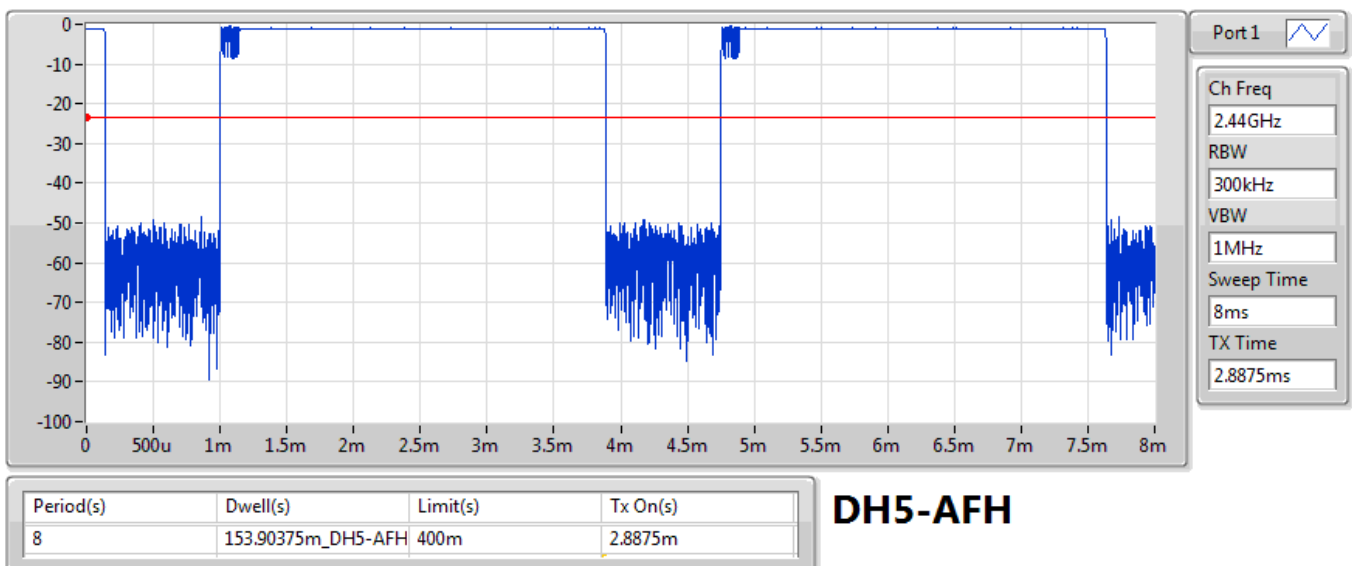


## BT-EDR(2Mbps)

2440MHz

## Dwell-FS

22/11/2021

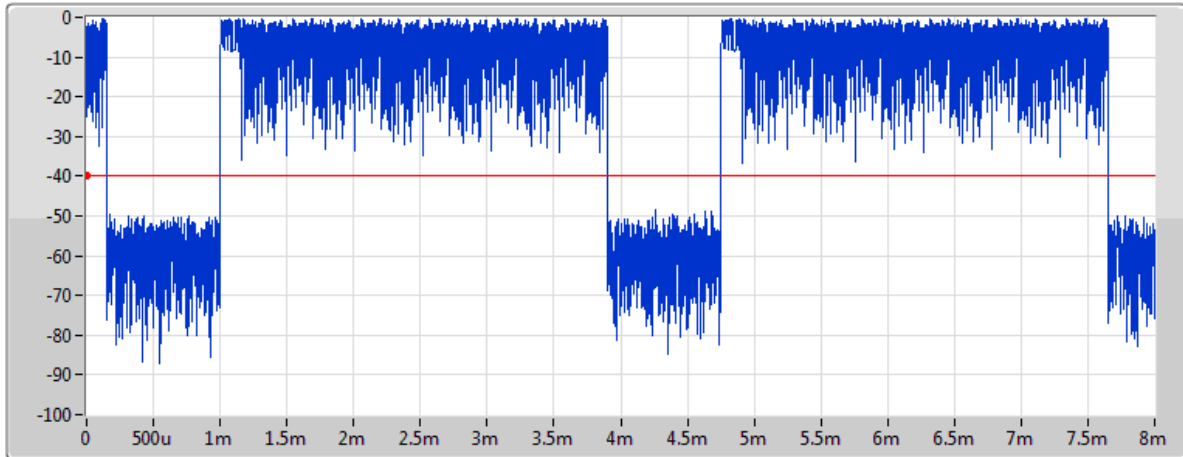


## BT-EDR(3Mbps)

2440MHz

## Dwell-FS

22/11/2021



Port 1 

Ch Freq  
2.44GHz

RBW  
300kHz

VBW  
1MHz

Sweep Time  
8ms

TX Time  
2.902ms

| Period(s) | Dwell(s)      | Limit(s) | Tx On(s) |
|-----------|---------------|----------|----------|
| 31.6      | 309.3532m_DH5 | 400m     | 2.902m   |

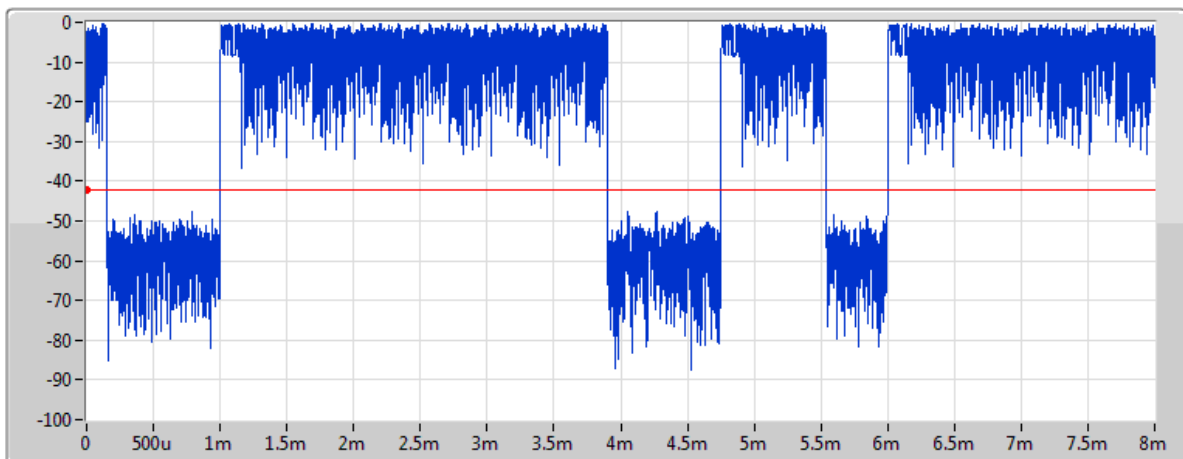
**DH5**

## BT-EDR(3Mbps)

2440MHz

## Dwell-FS

22/11/2021



Port 1 

Ch Freq  
2.44GHz

RBW  
300kHz

VBW  
1MHz

Sweep Time  
8ms

TX Time  
2.902ms

| Period(s) | Dwell(s)          | Limit(s) | Tx On(s) |
|-----------|-------------------|----------|----------|
| 8         | 154.6766m_DH5-AFH | 400m     | 2.902m   |

**DH5-AFH**



Summary

| Mode          | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|---------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2.4-2.4835GHz | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| BT-BR(1Mbps)  | Pass   | 2.40205G    | -2.40        | -22.40         | 439.78M      | -49.62         | 2.39992G     | -40.48         | 2.4835G      | -54.00         | 2.4857G      | -51.25         | 15.21121G    | -41.25         | 1    |
| BT-EDR(2Mbps) | Pass   | 2.40225G    | -3.00        | -23.00         | 199.79M      | -51.79         | 2.39943G     | -42.26         | 2.4G         | -53.79         | 2.49439G     | -50.83         | 15.21965G    | -40.83         | 1    |
| BT-EDR(3Mbps) | Pass   | 2.40205G    | -3.35        | -23.35         | 439.78M      | -51.19         | 2.39739G     | -47.27         | 2.4G         | -53.12         | 2.48424G     | -51.20         | 15.24496G    | -40.92         | 1    |

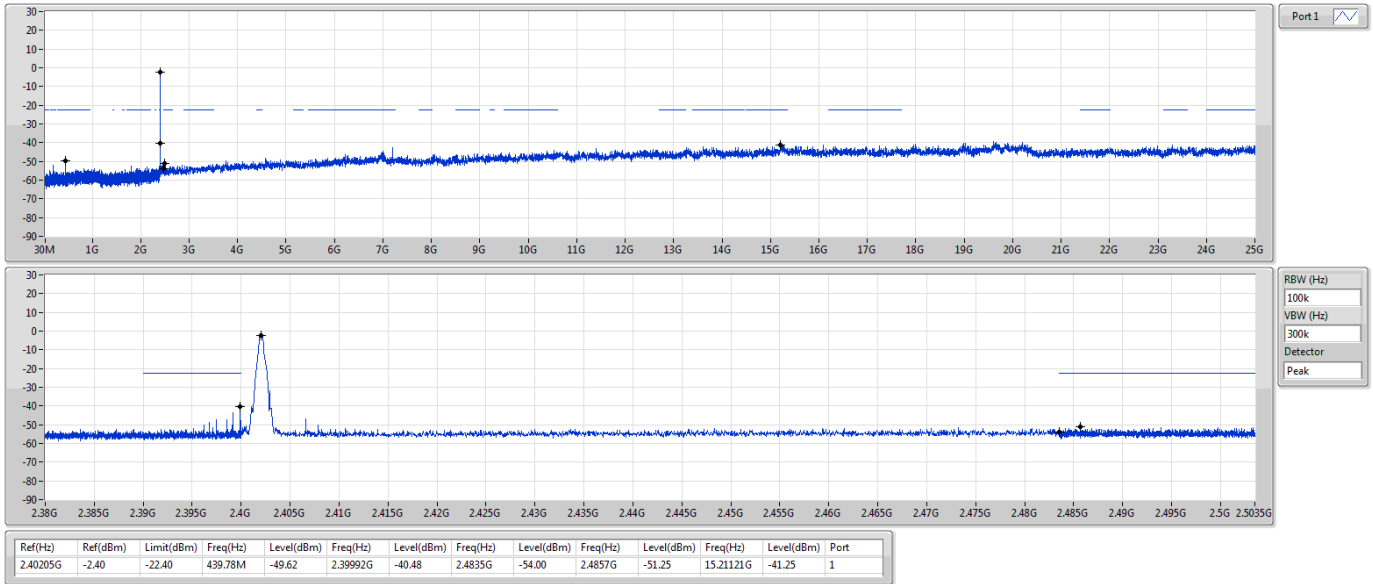
## Result

| Mode          | Result | Ref (Hz) | Ref (dBm) | Limit (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Port |
|---------------|--------|----------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|------|
| BT-BR(1Mbps)  | -      | -        | -         | -           | -         | -           | -         | -           | -         | -           | -         | -           | -         | -           | -    |
| 2402MHz       | Pass   | 2.40205G | -2.40     | -22.40      | 439.78M   | -49.62      | 2.39992G  | -40.48      | 2.4835G   | -54.00      | 2.4857G   | -51.25      | 15.21121G | -41.25      | 1    |
| 2440MHz       | Pass   | 2.44025G | -1.41     | -21.41      | 439.78M   | -50.16      | 2.39863G  | -52.18      | 2.4835G   | -55.21      | 2.49167G  | -50.83      | 24.6513G  | -39.98      | 1    |
| 2480MHz       | Pass   | 2.48012G | -1.66     | -21.66      | 199.79M   | -51.05      | 2.39548G  | -52.64      | 2.4835G   | -53.27      | 2.48378G  | -45.64      | 17.51991G | -40.80      | 1    |
| BT-EDR(2Mbps) | -      | -        | -         | -           | -         | -           | -         | -           | -         | -           | -         | -           | -         | -           | -    |
| 2402MHz       | Pass   | 2.40225G | -3.00     | -23.00      | 199.79M   | -51.79      | 2.39943G  | -42.26      | 2.4G      | -53.79      | 2.49439G  | -50.83      | 15.21965G | -40.83      | 1    |
| 2440MHz       | Pass   | 2.44008G | -1.47     | -21.47      | 439.78M   | -51.13      | 2.39835G  | -51.96      | 2.4G      | -53.22      | 2.4964G   | -51.68      | 15.25339G | -40.83      | 1    |
| 2480MHz       | Pass   | 2.47991G | -2.63     | -22.63      | 199.79M   | -50.45      | 2.39529G  | -52.39      | 2.4835G   | -53.75      | 2.48408G  | -44.37      | 24.65974G | -41.09      | 1    |
| BT-EDR(3Mbps) | -      | -        | -         | -           | -         | -           | -         | -           | -         | -           | -         | -           | -         | -           | -    |
| 2402MHz       | Pass   | 2.40205G | -3.35     | -23.35      | 439.78M   | -51.19      | 2.39739G  | -47.27      | 2.4G      | -53.12      | 2.48424G  | -51.20      | 15.24496G | -40.92      | 1    |
| 2440MHz       | Pass   | 2.44025G | -1.43     | -21.43      | 439.78M   | -49.61      | 2.3906G   | -52.67      | 2.4835G   | -54.69      | 2.49938G  | -51.04      | 16.27136G | -41.44      | 1    |
| 2480MHz       | Pass   | 2.48012G | -1.76     | -21.76      | 439.78M   | -49.52      | 2.39814G  | -52.36      | 2.4835G   | -52.00      | 2.49725G  | -51.11      | 24.00734G | -41.14      | 1    |

BT-BR(1Mbps)

CSENdB-FS

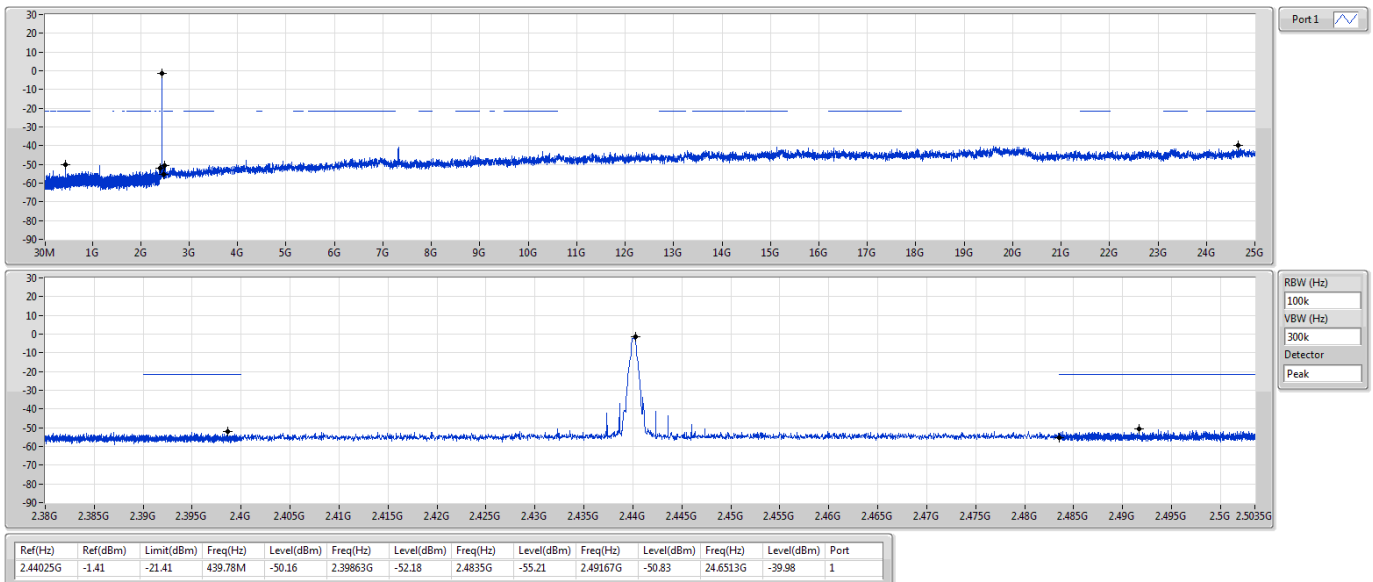
2402MHz



BT-BR(1Mbps)

CSENdB-FS

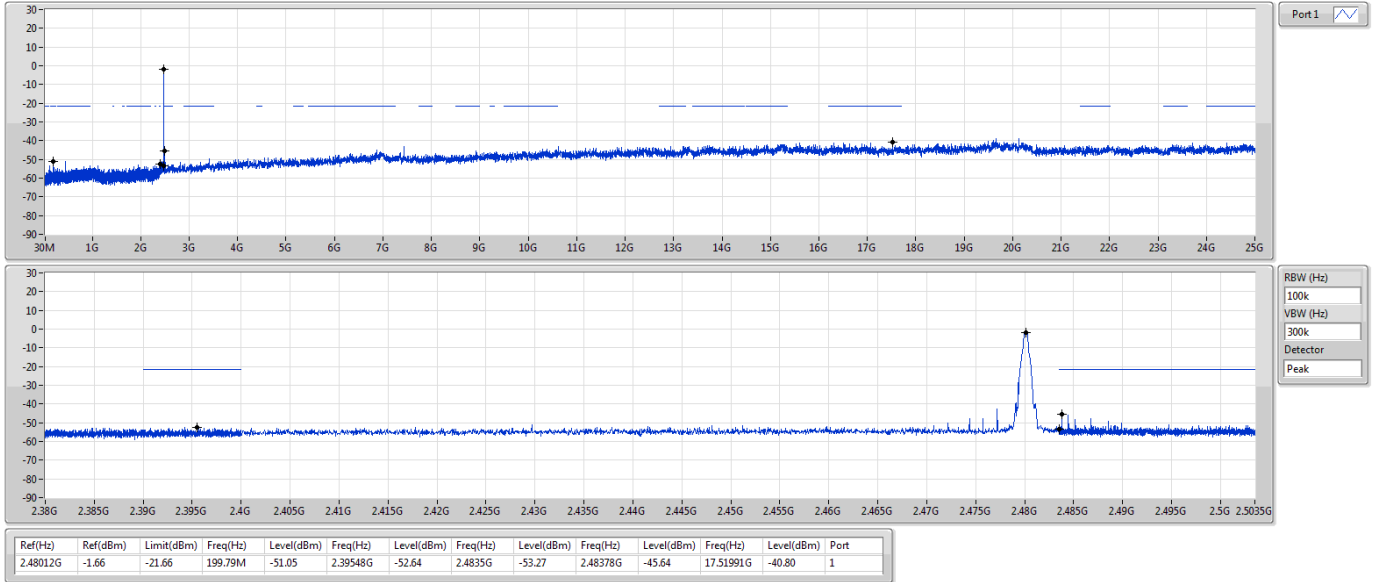
2440MHz



BT-BR(1Mbps)

CSENdB-FS

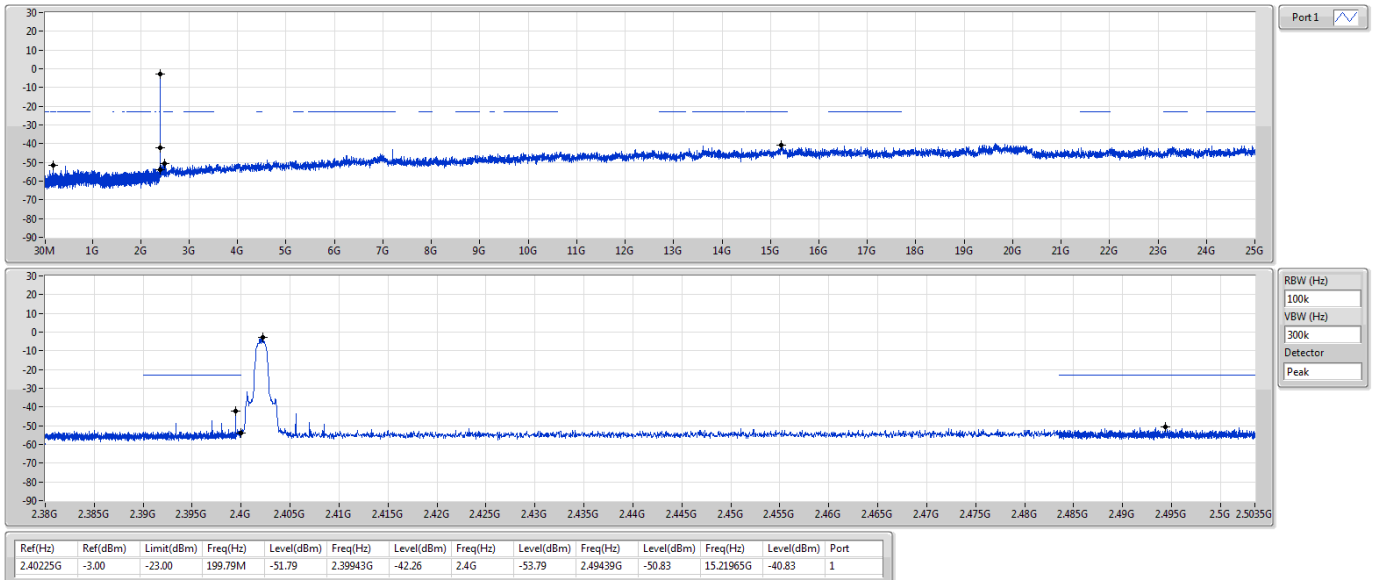
2480MHz



BT-EDR(2Mbps)

CSENdB-FS

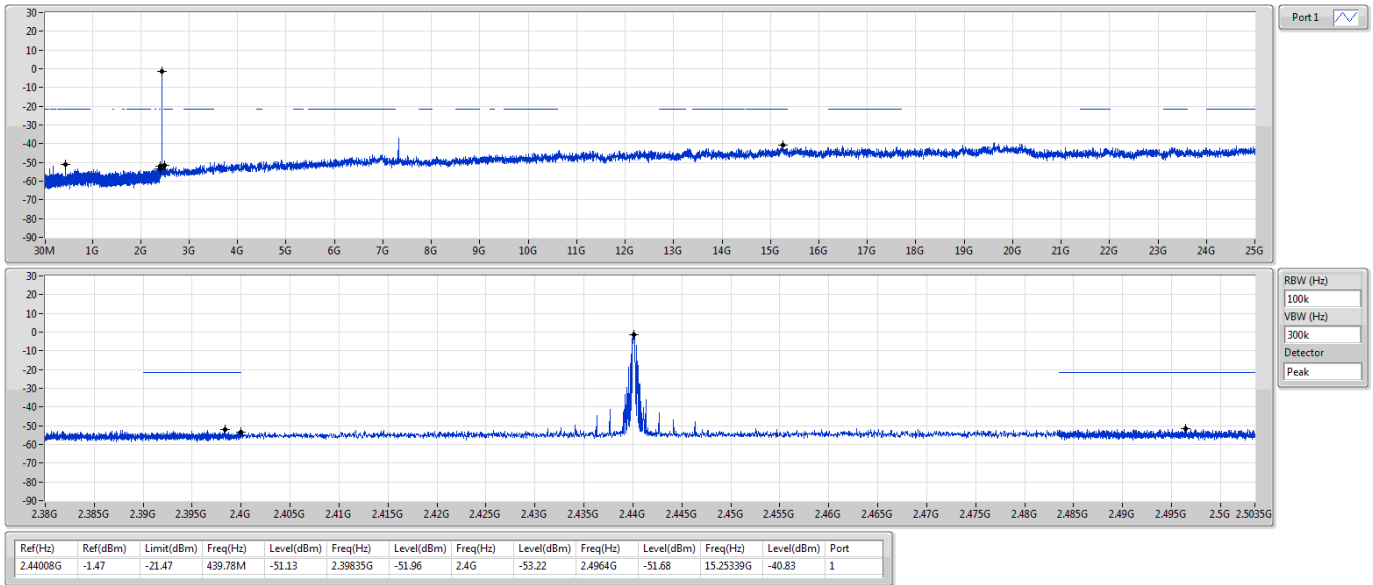
2402MHz



BT-EDR(2Mbps)

CSENdB-FS

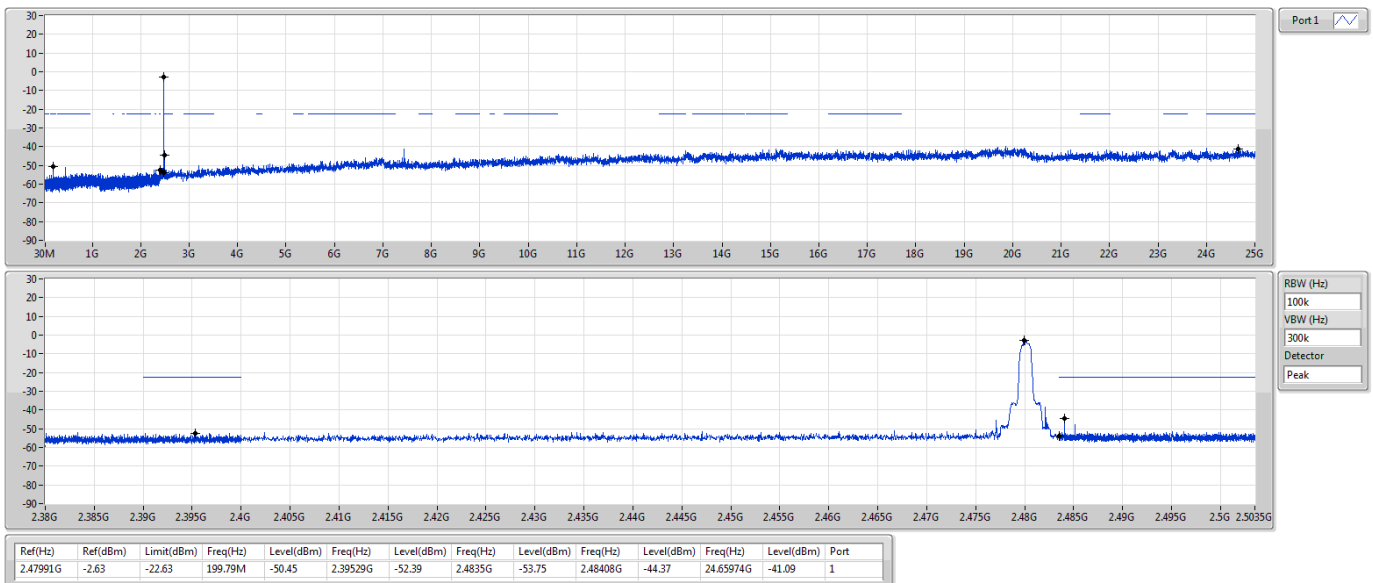
2440MHz



BT-EDR(2Mbps)

CSENdB-FS

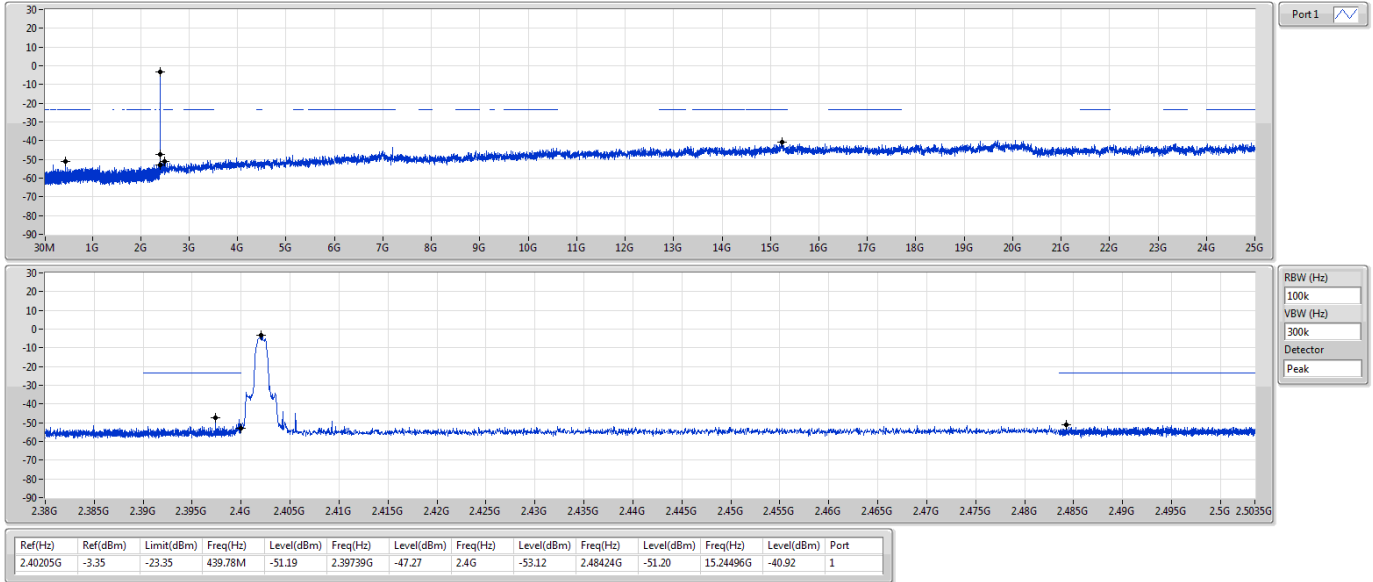
2480MHz



BT-EDR(3Mbps)

CSENdB-FS

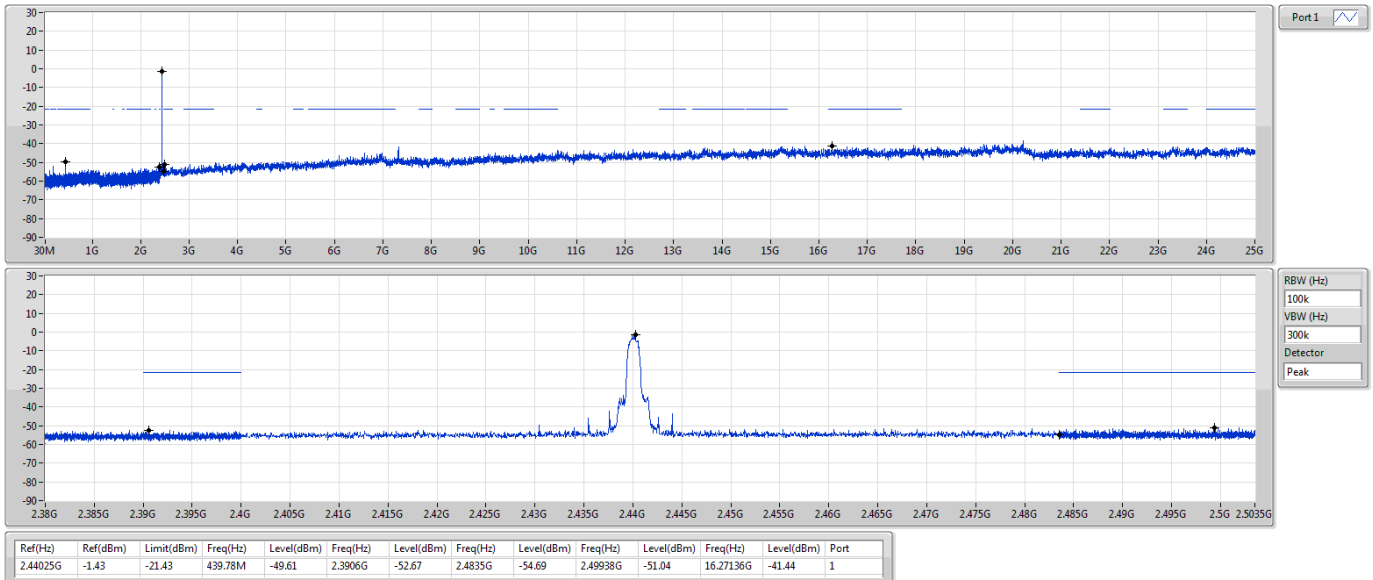
2402MHz



BT-EDR(3Mbps)

CSENdB-FS

2440MHz

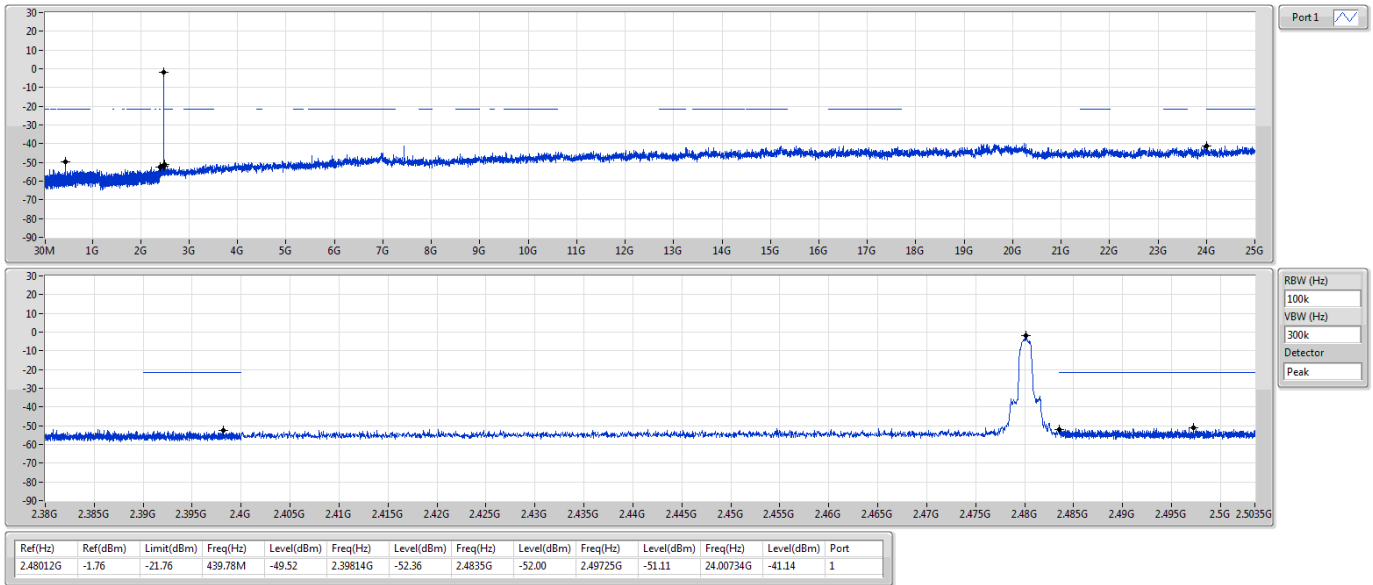


BT-EDR(3Mbps)

CSEndB-FS

2480MHz

22/11/2021





**Summary**

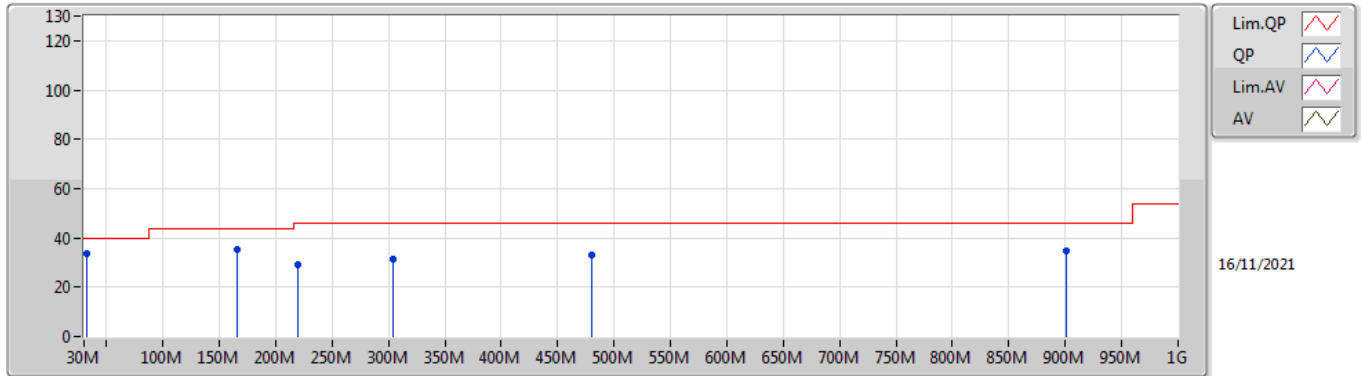
| Mode          | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|-----------|----------------|---------------|----------|
| 2.4-2.4835GHz | -      | -    | -            | -                 | -                 | -              | -           | -         | -              | -             | -        |
| BT-BR(1Mbps)  | Pass   | PK   | 31.94M       | 33.50             | 40.00             | -6.50          | 3           | Vertical  | 360            | 1.00          | -        |

**Result**

| Mode         | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| BT-BR(1Mbps) | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2440MHz      | Pass   | PK   | 31.94M       | 33.50             | 40.00             | -6.50          | 3           | Vertical   | 360            | 1.00          | -        |
| 2440MHz      | Pass   | PK   | 165.8M       | 35.11             | 43.50             | -8.39          | 3           | Vertical   | 360            | 1.00          | -        |
| 2440MHz      | Pass   | PK   | 220.12M      | 29.29             | 46.00             | -16.71         | 3           | Vertical   | 360            | 1.00          | -        |
| 2440MHz      | Pass   | PK   | 303.54M      | 31.32             | 46.00             | -14.68         | 3           | Vertical   | 360            | 1.00          | -        |
| 2440MHz      | Pass   | PK   | 480.08M      | 32.95             | 46.00             | -13.05         | 3           | Vertical   | 360            | 1.00          | -        |
| 2440MHz      | Pass   | PK   | 901.06M      | 34.60             | 46.00             | -11.40         | 3           | Vertical   | 360            | 1.00          | -        |
| 2440MHz      | Pass   | PK   | 165.8M       | 33.31             | 43.50             | -10.19         | 3           | Horizontal | 0              | 1.00          | -        |
| 2440MHz      | Pass   | PK   | 200.72M      | 31.89             | 43.50             | -11.61         | 3           | Horizontal | 0              | 1.00          | -        |
| 2440MHz      | Pass   | PK   | 231.76M      | 35.24             | 46.00             | -10.76         | 3           | Horizontal | 0              | 1.00          | -        |
| 2440MHz      | Pass   | PK   | 334.58M      | 27.57             | 46.00             | -18.43         | 3           | Horizontal | 0              | 1.00          | -        |
| 2440MHz      | Pass   | PK   | 480.08M      | 30.01             | 46.00             | -15.99         | 3           | Horizontal | 0              | 1.00          | -        |
| 2440MHz      | Pass   | PK   | 947.62M      | 34.22             | 46.00             | -11.78         | 3           | Horizontal | 0              | 1.00          | -        |

## BT-BR(1Mbps)

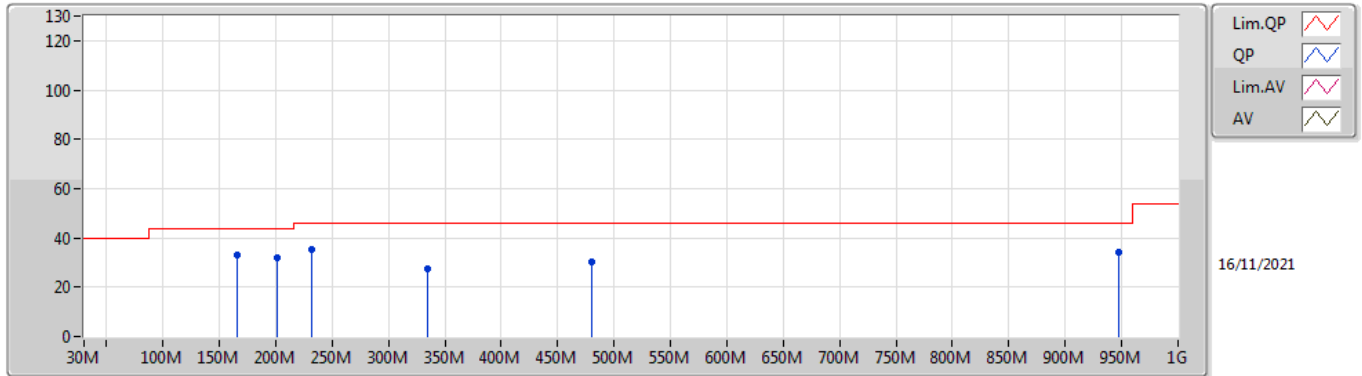
### 2440MHz\_Battery



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| PK   | 31.94M       | 33.50             | 40.00             | -6.50          | -3.99          | 3           | Vertical  | 360            | 1.00          | -       | 37.49         | 22.18      | 0.88       | 27.05      |
| PK   | 165.8M       | 35.11             | 43.50             | -8.39          | -10.62         | 3           | Vertical  | 360            | 1.00          | -       | 45.73         | 15.08      | 1.80       | 27.50      |
| PK   | 220.12M      | 29.29             | 46.00             | -16.71         | -10.77         | 3           | Vertical  | 360            | 1.00          | -       | 40.06         | 14.39      | 2.04       | 27.20      |
| PK   | 303.54M      | 31.32             | 46.00             | -14.68         | -6.24          | 3           | Vertical  | 360            | 1.00          | -       | 37.56         | 18.47      | 2.37       | 27.08      |
| PK   | 480.08M      | 32.95             | 46.00             | -13.05         | -2.61          | 3           | Vertical  | 360            | 1.00          | -       | 35.56         | 22.62      | 3.01       | 28.24      |
| PK   | 901.06M      | 34.60             | 46.00             | -11.40         | 2.27           | 3           | Vertical  | 360            | 1.00          | -       | 32.33         | 25.66      | 4.11       | 27.50      |

## BT-BR(1Mbps)

## 2440MHz\_Battery



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| PK   | 165.8M       | 33.31             | 43.50             | -10.19         | -10.62         | 3           | Horizontal | 0              | 1.00          | -       | 43.93         | 15.08      | 1.80       | 27.50      |
| PK   | 200.72M      | 31.89             | 43.50             | -11.61         | -10.80         | 3           | Horizontal | 0              | 1.00          | -       | 42.69         | 14.56      | 1.96       | 27.32      |
| PK   | 231.76M      | 35.24             | 46.00             | -10.76         | -9.52          | 3           | Horizontal | 0              | 1.00          | -       | 44.76         | 15.53      | 2.08       | 27.13      |
| PK   | 334.58M      | 27.57             | 46.00             | -18.43         | -5.77          | 3           | Horizontal | 0              | 1.00          | -       | 33.34         | 18.99      | 2.49       | 27.25      |
| PK   | 480.08M      | 30.01             | 46.00             | -15.99         | -2.61          | 3           | Horizontal | 0              | 1.00          | -       | 32.62         | 22.62      | 3.01       | 28.24      |
| PK   | 947.62M      | 34.22             | 46.00             | -11.78         | 2.95           | 3           | Horizontal | 0              | 1.00          | -       | 31.27         | 26.06      | 4.18       | 27.29      |

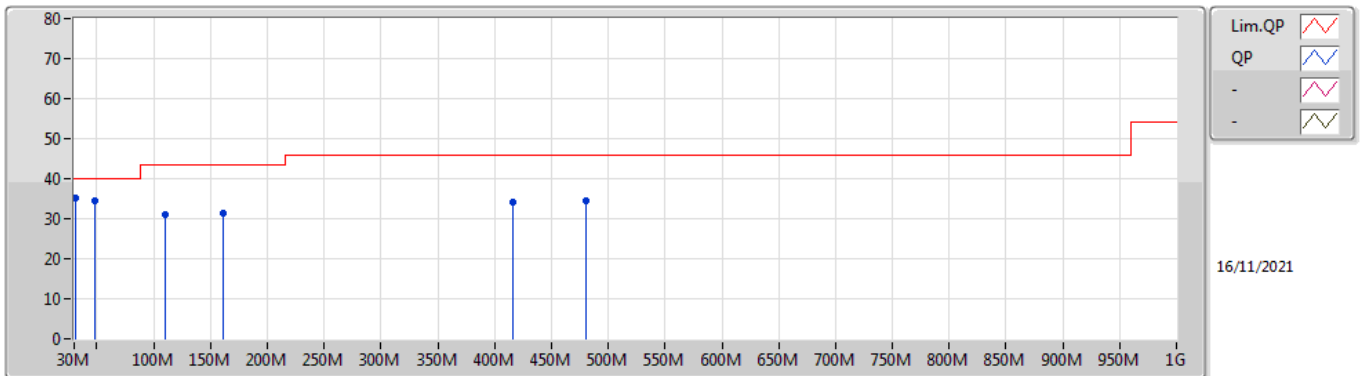
**Summary**

| Mode   | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Condition  |
|--------|--------|------|-----------|----------------|----------------|-------------|------------|
| Mode 2 | Pass   | PK   | 30.97M    | 35.16          | 40.00          | -4.84       | Vertical   |
| Mode 3 | Pass   | PK   | 265.71M   | 37.48          | 46.00          | -8.52       | Horizontal |

**Mode Configure**

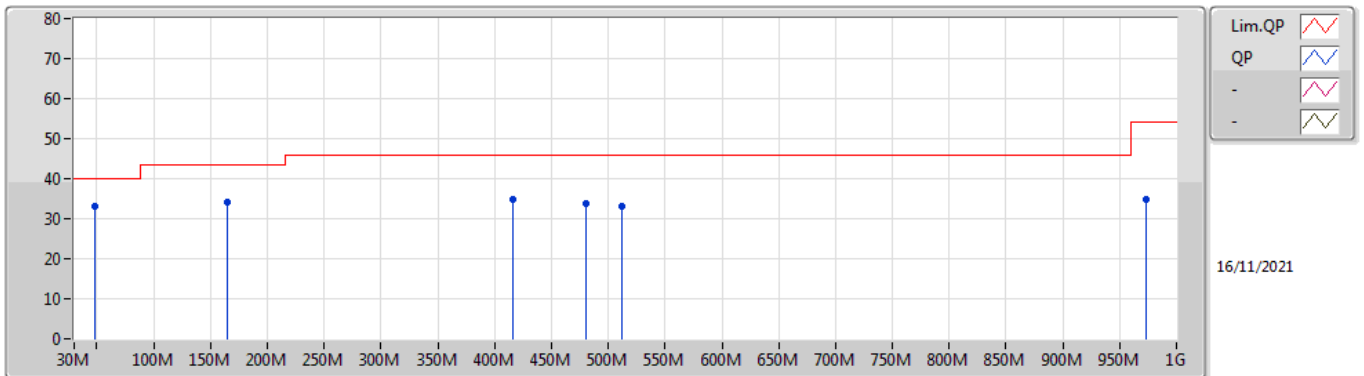
| Mode   | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |
|--------|--------|------|-----------|----------------|----------------|-------------|----------|------------|-------------|------------|----------|
| Mode 2 | Pass   | PK   | 30.97M    | 35.16          | 40.00          | -4.84       | 3        | Vertical   | 360         | 1.00       | -        |
| Mode 2 | Pass   | PK   | 48.43M    | 34.38          | 40.00          | -5.62       | 3        | Vertical   | 360         | 1.00       | -        |
| Mode 2 | Pass   | PK   | 109.54M   | 30.94          | 43.50          | -12.56      | 3        | Vertical   | 360         | 1.00       | -        |
| Mode 2 | Pass   | PK   | 160.95M   | 31.39          | 43.50          | -12.11      | 3        | Vertical   | 360         | 1.00       | -        |
| Mode 2 | Pass   | PK   | 416.06M   | 34.26          | 46.00          | -11.74      | 3        | Vertical   | 360         | 1.00       | -        |
| Mode 2 | Pass   | PK   | 480.08M   | 34.61          | 46.00          | -11.39      | 3        | Vertical   | 360         | 1.00       | -        |
| Mode 2 | Pass   | PK   | 48.43M    | 32.97          | 40.00          | -7.03       | 3        | Horizontal | 0           | 1.00       | -        |
| Mode 2 | Pass   | PK   | 164.83M   | 33.99          | 43.50          | -9.51       | 3        | Horizontal | 0           | 1.00       | -        |
| Mode 2 | Pass   | PK   | 416.06M   | 34.95          | 46.00          | -11.05      | 3        | Horizontal | 0           | 1.00       | -        |
| Mode 2 | Pass   | PK   | 480.08M   | 33.92          | 46.00          | -12.08      | 3        | Horizontal | 0           | 1.00       | -        |
| Mode 2 | Pass   | PK   | 512.09M   | 33.21          | 46.00          | -12.79      | 3        | Horizontal | 0           | 1.00       | -        |
| Mode 2 | Pass   | PK   | 973.81M   | 34.83          | 54.00          | -19.17      | 3        | Horizontal | 0           | 1.00       | -        |
| Mode 3 | Pass   | PK   | 106.63M   | 30.97          | 43.50          | -12.53      | 3        | Vertical   | 360         | 1.00       | -        |
| Mode 3 | Pass   | PK   | 159.98M   | 34.20          | 43.50          | -9.30       | 3        | Vertical   | 360         | 1.00       | -        |
| Mode 3 | Pass   | PK   | 304.51M   | 34.02          | 46.00          | -11.98      | 3        | Vertical   | 360         | 1.00       | -        |
| Mode 3 | Pass   | PK   | 416.06M   | 33.59          | 46.00          | -12.41      | 3        | Vertical   | 360         | 1.00       | -        |
| Mode 3 | Pass   | PK   | 480.08M   | 36.14          | 46.00          | -9.86       | 3        | Vertical   | 360         | 1.00       | -        |
| Mode 3 | Pass   | PK   | 799.21M   | 33.75          | 46.00          | -12.25      | 3        | Vertical   | 360         | 1.00       | -        |
| Mode 3 | Pass   | PK   | 164.83M   | 33.78          | 43.50          | -9.72       | 3        | Horizontal | 0           | 1.00       | -        |
| Mode 3 | Pass   | PK   | 242.43M   | 35.82          | 46.00          | -10.18      | 3        | Horizontal | 0           | 1.00       | -        |
| Mode 3 | Pass   | PK   | 265.71M   | 37.48          | 46.00          | -8.52       | 3        | Horizontal | 0           | 1.00       | -        |
| Mode 3 | Pass   | PK   | 416.06M   | 36.11          | 46.00          | -9.89       | 3        | Horizontal | 0           | 1.00       | -        |
| Mode 3 | Pass   | PK   | 480.08M   | 37.00          | 46.00          | -9.00       | 3        | Horizontal | 0           | 1.00       | -        |
| Mode 3 | Pass   | PK   | 970.9M    | 34.57          | 54.00          | -19.43      | 3        | Horizontal | 0           | 1.00       | -        |

## Radiated Emissions below 1GHz\_Mode 2



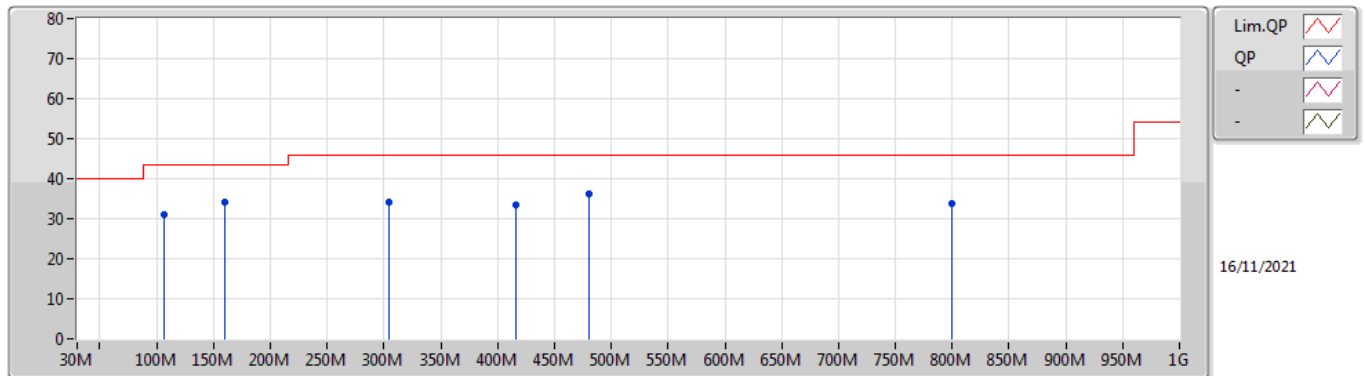
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB/m) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV/m) | AF<br>(dB/m) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|------------------|-------------|-----------|----------------|---------------|---------|-----------------|--------------|------------|------------|
| PK   | 30.97M       | 35.16             | 40.00             | -4.84          | -3.36            | 3           | Vertical  | 360            | 1.00          | -       | 38.52           | 22.79        | 0.87       | 27.02      |
| PK   | 48.43M       | 34.38             | 40.00             | -5.62          | -12.85           | 3           | Vertical  | 360            | 1.00          | -       | 47.23           | 13.77        | 1.05       | 27.67      |
| PK   | 109.54M      | 30.94             | 43.50             | -12.56         | -9.23            | 3           | Vertical  | 360            | 1.00          | -       | 40.17           | 17.07        | 1.48       | 27.78      |
| PK   | 160.95M      | 31.39             | 43.50             | -12.11         | -10.61           | 3           | Vertical  | 360            | 1.00          | -       | 42.00           | 15.14        | 1.77       | 27.52      |
| PK   | 416.06M      | 34.26             | 46.00             | -11.74         | -3.34            | 3           | Vertical  | 360            | 1.00          | -       | 37.60           | 21.74        | 2.79       | 27.87      |
| PK   | 480.08M      | 34.61             | 46.00             | -11.39         | -2.61            | 3           | Vertical  | 360            | 1.00          | -       | 37.22           | 22.62        | 3.01       | 28.24      |

## Radiated Emissions below 1GHz\_Mode 2



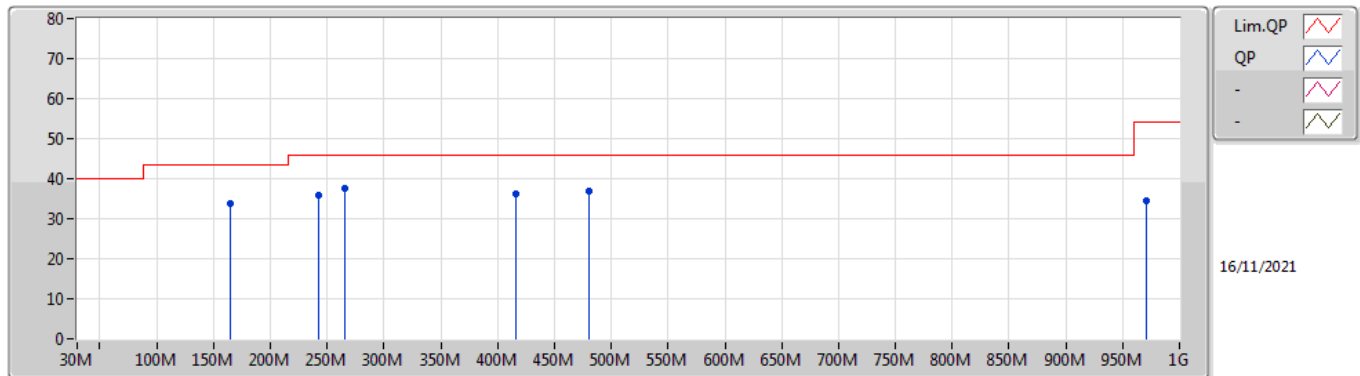
| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB/m) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV/m) | AF<br>(dB/m) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|------------------|-------------|------------|----------------|---------------|---------|-----------------|--------------|------------|------------|
| PK   | 48.43M       | 32.97             | 40.00             | -7.03          | -12.85           | 3           | Horizontal | 0              | 1.00          | -       | 45.82           | 13.77        | 1.05       | 27.67      |
| PK   | 164.83M      | 33.99             | 43.50             | -9.51          | -10.61           | 3           | Horizontal | 0              | 1.00          | -       | 44.60           | 15.11        | 1.79       | 27.51      |
| PK   | 416.06M      | 34.95             | 46.00             | -11.05         | -3.34            | 3           | Horizontal | 0              | 1.00          | -       | 38.29           | 21.74        | 2.79       | 27.87      |
| PK   | 480.08M      | 33.92             | 46.00             | -12.08         | -2.61            | 3           | Horizontal | 0              | 1.00          | -       | 36.53           | 22.62        | 3.01       | 28.24      |
| PK   | 512.09M      | 33.21             | 46.00             | -12.79         | -2.58            | 3           | Horizontal | 0              | 1.00          | -       | 35.79           | 22.65        | 3.11       | 28.34      |
| PK   | 973.81M      | 34.83             | 54.00             | -19.17         | 3.33             | 3           | Horizontal | 0              | 1.00          | -       | 31.50           | 26.28        | 4.25       | 27.20      |

### Radiated Emissions below 1GHz\_Mode 3



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB/m) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV/m) | AF<br>(dB/m) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|------------------|-------------|-----------|----------------|---------------|---------|-----------------|--------------|------------|------------|
| PK   | 106.63M      | 30.97             | 43.50             | -12.53         | -9.46            | 3           | Vertical  | 360            | 1.00          | -       | 40.43           | 16.86        | 1.46       | 27.78      |
| PK   | 159.98M      | 34.20             | 43.50             | -9.30          | -10.53           | 3           | Vertical  | 360            | 1.00          | -       | 44.73           | 15.22        | 1.77       | 27.52      |
| PK   | 304.51M      | 34.02             | 46.00             | -11.98         | -6.19            | 3           | Vertical  | 360            | 1.00          | -       | 40.21           | 18.51        | 2.38       | 27.08      |
| PK   | 416.06M      | 33.59             | 46.00             | -12.41         | -3.34            | 3           | Vertical  | 360            | 1.00          | -       | 36.93           | 21.74        | 2.79       | 27.87      |
| PK   | 480.08M      | 36.14             | 46.00             | -9.86          | -2.61            | 3           | Vertical  | 360            | 1.00          | -       | 38.75           | 22.62        | 3.01       | 28.24      |
| PK   | 799.21M      | 33.75             | 46.00             | -12.25         | 1.05             | 3           | Vertical  | 360            | 1.00          | -       | 32.70           | 25.05        | 3.88       | 27.88      |

### Radiated Emissions below 1GHz\_Mode 3



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB/m) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV/m) | AF<br>(dB/m) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|------------------|-------------|------------|----------------|---------------|---------|-----------------|--------------|------------|------------|
| PK   | 164.83M      | 33.78             | 43.50             | -9.72          | -10.61           | 3           | Horizontal | 0              | 1.00          | -       | 44.39           | 15.11        | 1.79       | 27.51      |
| PK   | 242.43M      | 35.82             | 46.00             | -10.18         | -8.23            | 3           | Horizontal | 0              | 1.00          | -       | 44.05           | 16.72        | 2.12       | 27.07      |
| PK   | 265.71M      | 37.48             | 46.00             | -8.52          | -6.30            | 3           | Horizontal | 0              | 1.00          | -       | 43.78           | 18.51        | 2.22       | 27.03      |
| PK   | 416.06M      | 36.11             | 46.00             | -9.89          | -3.34            | 3           | Horizontal | 0              | 1.00          | -       | 39.45           | 21.74        | 2.79       | 27.87      |
| PK   | 480.08M      | 37.00             | 46.00             | -9.00          | -2.61            | 3           | Horizontal | 0              | 1.00          | -       | 39.61           | 22.62        | 3.01       | 28.24      |
| PK   | 970.9M       | 34.57             | 54.00             | -19.43         | 3.30             | 3           | Horizontal | 0              | 1.00          | -       | 31.27           | 26.27        | 4.24       | 27.21      |



**Summary**

| Mode          | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|-----------|----------------|---------------|----------|
| 2.4-2.4835GHz | -      | -    | -            | -                 | -                 | -              | -           | -         | -              | -             | -        |
| BT-BR(1Mbps)  | Pass   | PK   | 7.43978G     | 63.16             | 74.00             | -10.84         | 3           | Vertical  | 22             | 1.04          | -        |
| BT-EDR(3Mbps) | Pass   | PK   | 7.44029G     | 62.20             | 74.00             | -11.80         | 3           | Vertical  | 180            | 1.03          | -        |



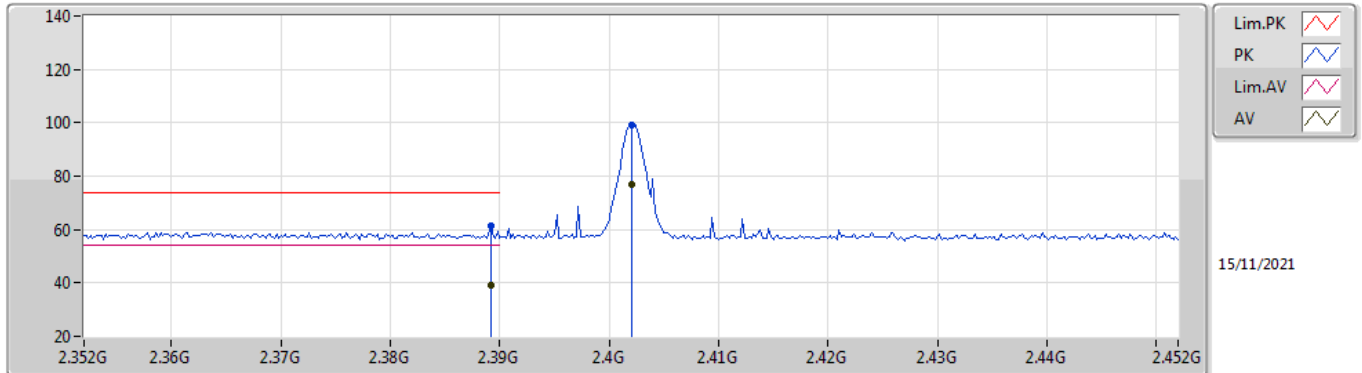
## Result

| Mode          | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |
|---------------|--------|------|-----------|----------------|----------------|-------------|----------|------------|-------------|------------|----------|
| BT-BR(1Mbps)  | -      | -    | -         | -              | -              | -           | -        | -          | -           | -          | -        |
| 2402MHz       | Pass   | AV   | 2.3892G   | 38.98          | 54.00          | -15.02      | 3        | Vertical   | 200         | 1.42       | -        |
| 2402MHz       | Pass   | AV   | 2.402G    | 76.77          | Inf            | -Inf        | 3        | Vertical   | 200         | 1.42       | -        |
| 2402MHz       | Pass   | PK   | 2.3892G   | 61.48          | 74.00          | -12.52      | 3        | Vertical   | 200         | 1.42       | -        |
| 2402MHz       | Pass   | PK   | 2.402G    | 99.27          | Inf            | -Inf        | 3        | Vertical   | 200         | 1.42       | -        |
| 2402MHz       | Pass   | AV   | 2.372G    | 36.16          | 54.00          | -17.84      | 3        | Horizontal | 199         | 1.33       | -        |
| 2402MHz       | Pass   | AV   | 2.402G    | 73.47          | Inf            | -Inf        | 3        | Horizontal | 199         | 1.33       | -        |
| 2402MHz       | Pass   | PK   | 2.372G    | 58.70          | 74.00          | -15.30      | 3        | Horizontal | 199         | 1.33       | -        |
| 2402MHz       | Pass   | PK   | 2.402G    | 95.97          | Inf            | -Inf        | 3        | Horizontal | 199         | 1.33       | -        |
| 2402MHz       | Pass   | AV   | 4.80432G  | 25.11          | 54.00          | -28.89      | 3        | Vertical   | 30          | 2.36       | -        |
| 2402MHz       | Pass   | PK   | 4.80432G  | 47.61          | 74.00          | -26.39      | 3        | Vertical   | 30          | 2.36       | -        |
| 2402MHz       | Pass   | AV   | 4.80454G  | 26.31          | 54.00          | -27.69      | 3        | Horizontal | 14          | 1.00       | -        |
| 2402MHz       | Pass   | PK   | 4.80454G  | 48.81          | 74.00          | -25.19      | 3        | Horizontal | 14          | 1.00       | -        |
| 2440MHz       | Pass   | AV   | 2.348G    | 36.52          | 54.00          | -17.48      | 3        | Vertical   | 57          | 1.18       | -        |
| 2440MHz       | Pass   | AV   | 2.4404G   | 75.87          | Inf            | -Inf        | 3        | Vertical   | 57          | 1.18       | -        |
| 2440MHz       | Pass   | AV   | 2.4948G   | 35.32          | 54.00          | -18.68      | 3        | Vertical   | 57          | 1.18       | -        |
| 2440MHz       | Pass   | PK   | 2.348G    | 59.02          | 74.00          | -14.98      | 3        | Vertical   | 57          | 1.18       | -        |
| 2440MHz       | Pass   | PK   | 2.4404G   | 98.37          | Inf            | -Inf        | 3        | Vertical   | 57          | 1.18       | -        |
| 2440MHz       | Pass   | PK   | 2.4948G   | 57.82          | 74.00          | -16.18      | 3        | Vertical   | 57          | 1.18       | -        |
| 2440MHz       | Pass   | AV   | 2.3648G   | 36.63          | 54.00          | -17.37      | 3        | Horizontal | 235         | 1.18       | -        |
| 2440MHz       | Pass   | AV   | 2.44G     | 70.02          | Inf            | -Inf        | 3        | Horizontal | 235         | 1.18       | -        |
| 2440MHz       | Pass   | AV   | 2.49G     | 35.68          | 54.00          | -18.32      | 3        | Horizontal | 235         | 1.18       | -        |
| 2440MHz       | Pass   | PK   | 2.3648G   | 59.13          | 74.00          | -14.87      | 3        | Horizontal | 235         | 1.18       | -        |
| 2440MHz       | Pass   | PK   | 2.44G     | 92.52          | Inf            | -Inf        | 3        | Horizontal | 235         | 1.18       | -        |
| 2440MHz       | Pass   | PK   | 2.49G     | 58.18          | 74.00          | -15.82      | 3        | Horizontal | 235         | 1.18       | -        |
| 2440MHz       | Pass   | AV   | 4.87997G  | 26.97          | 54.00          | -27.03      | 3        | Vertical   | 1           | 1.07       | -        |
| 2440MHz       | Pass   | AV   | 7.32069G  | 38.04          | 54.00          | -15.96      | 3        | Vertical   | 35          | 1.07       | -        |
| 2440MHz       | Pass   | PK   | 4.87997G  | 49.47          | 74.00          | -24.53      | 3        | Vertical   | 1           | 1.07       | -        |
| 2440MHz       | Pass   | PK   | 7.32069G  | 60.54          | 74.00          | -13.46      | 3        | Vertical   | 35          | 1.07       | -        |
| 2440MHz       | Pass   | AV   | 4.88017G  | 24.12          | 54.00          | -29.88      | 3        | Horizontal | 73          | 1.19       | -        |
| 2440MHz       | Pass   | AV   | 7.31992G  | 32.81          | 54.00          | -21.19      | 3        | Horizontal | 24          | 1.23       | -        |
| 2440MHz       | Pass   | PK   | 4.88017G  | 46.62          | 74.00          | -27.38      | 3        | Horizontal | 73          | 1.19       | -        |
| 2440MHz       | Pass   | PK   | 7.31992G  | 55.31          | 74.00          | -18.69      | 3        | Horizontal | 24          | 1.23       | -        |
| 2480MHz       | Pass   | AV   | 2.48G     | 75.62          | Inf            | -Inf        | 3        | Vertical   | 166         | 1.17       | -        |
| 2480MHz       | Pass   | AV   | 2.4954G   | 34.90          | 54.00          | -19.10      | 3        | Vertical   | 166         | 1.17       | -        |
| 2480MHz       | Pass   | PK   | 2.48G     | 98.12          | Inf            | -Inf        | 3        | Vertical   | 166         | 1.17       | -        |
| 2480MHz       | Pass   | PK   | 2.4954G   | 57.40          | 74.00          | -16.60      | 3        | Vertical   | 166         | 1.17       | -        |
| 2480MHz       | Pass   | AV   | 2.48G     | 67.91          | Inf            | -Inf        | 3        | Horizontal | 188         | 2.62       | -        |
| 2480MHz       | Pass   | AV   | 2.4956G   | 35.00          | 54.00          | -19.00      | 3        | Horizontal | 188         | 2.62       | -        |
| 2480MHz       | Pass   | PK   | 2.48G     | 90.41          | Inf            | -Inf        | 3        | Horizontal | 188         | 2.62       | -        |
| 2480MHz       | Pass   | PK   | 2.4956G   | 57.50          | 74.00          | -16.50      | 3        | Horizontal | 188         | 2.62       | -        |
| 2480MHz       | Pass   | AV   | 4.9599G   | 28.41          | 54.00          | -25.59      | 3        | Vertical   | 353         | 1.00       | -        |
| 2480MHz       | Pass   | AV   | 7.43978G  | 40.66          | 54.00          | -13.34      | 3        | Vertical   | 22          | 1.04       | -        |
| 2480MHz       | Pass   | PK   | 4.9599G   | 50.91          | 74.00          | -23.09      | 3        | Vertical   | 353         | 1.00       | -        |
| 2480MHz       | Pass   | PK   | 7.43978G  | 63.16          | 74.00          | -10.84      | 3        | Vertical   | 22          | 1.04       | -        |
| 2480MHz       | Pass   | AV   | 4.96051G  | 26.03          | 54.00          | -27.97      | 3        | Horizontal | 0           | 1.05       | -        |
| 2480MHz       | Pass   | AV   | 7.43977G  | 34.09          | 54.00          | -19.91      | 3        | Horizontal | 338         | 1.50       | -        |
| 2480MHz       | Pass   | PK   | 4.96051G  | 48.53          | 74.00          | -25.47      | 3        | Horizontal | 0           | 1.05       | -        |
| 2480MHz       | Pass   | PK   | 7.43977G  | 56.59          | 74.00          | -17.41      | 3        | Horizontal | 338         | 1.50       | -        |
| BT-EDR(3Mbps) | -      | -    | -         | -              | -              | -           | -        | -          | -           | -          | -        |
| 2402MHz       | Pass   | AV   | 2.3856G   | 37.18          | 54.00          | -16.82      | 3        | Vertical   | 188         | 1.17       | -        |
| 2402MHz       | Pass   | AV   | 2.4022G   | 76.90          | Inf            | -Inf        | 3        | Vertical   | 188         | 1.17       | -        |
| 2402MHz       | Pass   | PK   | 2.3856G   | 59.71          | 74.00          | -14.29      | 3        | Vertical   | 188         | 1.17       | -        |
| 2402MHz       | Pass   | PK   | 2.4022G   | 99.40          | Inf            | -Inf        | 3        | Vertical   | 188         | 1.17       | -        |
| 2402MHz       | Pass   | AV   | 2.3822G   | 36.02          | 54.00          | -17.98      | 3        | Horizontal | 6           | 2.75       | -        |
| 2402MHz       | Pass   | AV   | 2.402G    | 72.59          | Inf            | -Inf        | 3        | Horizontal | 6           | 2.75       | -        |
| 2402MHz       | Pass   | PK   | 2.3822G   | 58.52          | 74.00          | -15.48      | 3        | Horizontal | 6           | 2.75       | -        |
| 2402MHz       | Pass   | PK   | 2.402G    | 95.09          | Inf            | -Inf        | 3        | Horizontal | 6           | 2.75       | -        |
| 2402MHz       | Pass   | AV   | 4.80423G  | 26.54          | 54.00          | -27.46      | 3        | Vertical   | 39          | 2.94       | -        |
| 2402MHz       | Pass   | PK   | 4.80423G  | 49.04          | 74.00          | -24.96      | 3        | Vertical   | 39          | 2.94       | -        |
| 2402MHz       | Pass   | AV   | 4.80431G  | 25.59          | 54.00          | -28.41      | 3        | Horizontal | 350         | 2.73       | -        |

| Mode    | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 2402MHz | Pass   | PK   | 4.80431G     | 48.09             | 74.00             | -25.91         | 3           | Horizontal | 350            | 2.73          | -        |
| 2440MHz | Pass   | AV   | 2.3856G      | 36.04             | 54.00             | -17.96         | 3           | Vertical   | 220            | 1.60          | -        |
| 2440MHz | Pass   | AV   | 2.4404G      | 76.10             | Inf               | -Inf           | 3           | Vertical   | 220            | 1.60          | -        |
| 2440MHz | Pass   | AV   | 2.4912G      | 36.90             | 54.00             | -17.10         | 3           | Vertical   | 220            | 1.60          | -        |
| 2440MHz | Pass   | PK   | 2.3856G      | 58.54             | 74.00             | -15.46         | 3           | Vertical   | 220            | 1.60          | -        |
| 2440MHz | Pass   | PK   | 2.4404G      | 98.60             | Inf               | -Inf           | 3           | Vertical   | 220            | 1.60          | -        |
| 2440MHz | Pass   | PK   | 2.4912G      | 59.40             | 74.00             | -14.60         | 3           | Vertical   | 220            | 1.60          | -        |
| 2440MHz | Pass   | AV   | 2.362G       | 36.67             | 54.00             | -17.33         | 3           | Horizontal | 193            | 2.74          | -        |
| 2440MHz | Pass   | AV   | 2.44G        | 71.34             | Inf               | -Inf           | 3           | Horizontal | 193            | 2.74          | -        |
| 2440MHz | Pass   | AV   | 2.4912G      | 35.04             | 54.00             | -18.96         | 3           | Horizontal | 193            | 2.74          | -        |
| 2440MHz | Pass   | PK   | 2.362G       | 59.17             | 74.00             | -14.83         | 3           | Horizontal | 193            | 2.74          | -        |
| 2440MHz | Pass   | PK   | 2.44G        | 93.84             | Inf               | -Inf           | 3           | Horizontal | 193            | 2.74          | -        |
| 2440MHz | Pass   | PK   | 2.4912G      | 57.54             | 74.00             | -16.46         | 3           | Horizontal | 193            | 2.74          | -        |
| 2440MHz | Pass   | AV   | 4.88021G     | 27.53             | 54.00             | -26.47         | 3           | Vertical   | 334            | 1.00          | -        |
| 2440MHz | Pass   | AV   | 7.3203G      | 36.60             | 54.00             | -17.40         | 3           | Vertical   | 126            | 2.40          | -        |
| 2440MHz | Pass   | PK   | 4.88021G     | 50.03             | 74.00             | -23.97         | 3           | Vertical   | 334            | 1.00          | -        |
| 2440MHz | Pass   | PK   | 7.3203G      | 59.10             | 74.00             | -14.90         | 3           | Vertical   | 126            | 2.40          | -        |
| 2440MHz | Pass   | AV   | 4.88009G     | 25.44             | 54.00             | -28.56         | 3           | Horizontal | 64             | 1.50          | -        |
| 2440MHz | Pass   | AV   | 7.32022G     | 34.65             | 54.00             | -19.35         | 3           | Horizontal | 267            | 1.05          | -        |
| 2440MHz | Pass   | PK   | 4.88009G     | 47.94             | 74.00             | -26.06         | 3           | Horizontal | 64             | 1.50          | -        |
| 2440MHz | Pass   | PK   | 7.32022G     | 57.15             | 74.00             | -16.85         | 3           | Horizontal | 267            | 1.05          | -        |
| 2480MHz | Pass   | AV   | 2.48G        | 76.15             | Inf               | -Inf           | 3           | Vertical   | 191            | 1.17          | -        |
| 2480MHz | Pass   | AV   | 2.4942G      | 35.62             | 54.00             | -18.38         | 3           | Vertical   | 191            | 1.17          | -        |
| 2480MHz | Pass   | PK   | 2.48G        | 98.65             | Inf               | -Inf           | 3           | Vertical   | 191            | 1.17          | -        |
| 2480MHz | Pass   | PK   | 2.4942G      | 58.12             | 74.00             | -15.88         | 3           | Vertical   | 191            | 1.17          | -        |
| 2480MHz | Pass   | AV   | 2.4802G      | 69.77             | Inf               | -Inf           | 3           | Horizontal | 18             | 2.08          | -        |
| 2480MHz | Pass   | AV   | 2.4992G      | 35.69             | 54.00             | -18.31         | 3           | Horizontal | 18             | 2.08          | -        |
| 2480MHz | Pass   | PK   | 2.4802G      | 92.27             | Inf               | -Inf           | 3           | Horizontal | 18             | 2.08          | -        |
| 2480MHz | Pass   | PK   | 2.4992G      | 58.19             | 74.00             | -15.81         | 3           | Horizontal | 18             | 2.08          | -        |
| 2480MHz | Pass   | AV   | 4.96017G     | 27.92             | 54.00             | -26.08         | 3           | Vertical   | 352            | 1.03          | -        |
| 2480MHz | Pass   | AV   | 7.44029G     | 39.70             | 54.00             | -14.30         | 3           | Vertical   | 180            | 1.03          | -        |
| 2480MHz | Pass   | PK   | 4.96017G     | 50.42             | 74.00             | -23.58         | 3           | Vertical   | 352            | 1.03          | -        |
| 2480MHz | Pass   | PK   | 7.44029G     | 62.20             | 74.00             | -11.80         | 3           | Vertical   | 180            | 1.03          | -        |
| 2480MHz | Pass   | AV   | 4.96022G     | 26.47             | 54.00             | -27.53         | 3           | Horizontal | 227            | 1.33          | -        |
| 2480MHz | Pass   | AV   | 7.44022G     | 36.22             | 54.00             | -17.78         | 3           | Horizontal | 68             | 2.34          | -        |
| 2480MHz | Pass   | PK   | 4.96022G     | 48.97             | 74.00             | -25.03         | 3           | Horizontal | 227            | 1.33          | -        |
| 2480MHz | Pass   | PK   | 7.44022G     | 58.72             | 74.00             | -15.28         | 3           | Horizontal | 68             | 2.34          | -        |

## BT-BR(1Mbps)

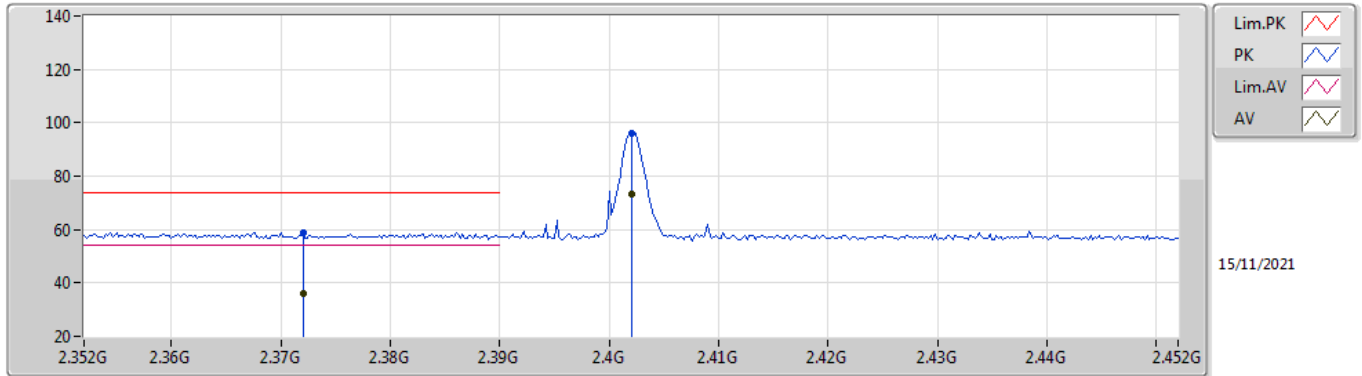
### 2402MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3892G      | 38.98             | 54.00             | -15.02         | 34.98          | 3           | Vertical  | 200            | 1.42          | -       | 4.00          | 27.72      | 7.26       | -          |
| AV   | 2.402G       | 76.77             | Inf               | -Inf           | 34.95          | 3           | Vertical  | 200            | 1.42          | -       | 41.82         | 27.69      | 7.26       | -          |
| PK   | 2.3892G      | 61.48             | 74.00             | -12.52         | 34.98          | 3           | Vertical  | 200            | 1.42          | -       | 26.50         | 27.72      | 7.26       | -          |
| PK   | 2.402G       | 99.27             | Inf               | -Inf           | 34.95          | 3           | Vertical  | 200            | 1.42          | -       | 64.32         | 27.69      | 7.26       | -          |

## BT-BR(1Mbps)

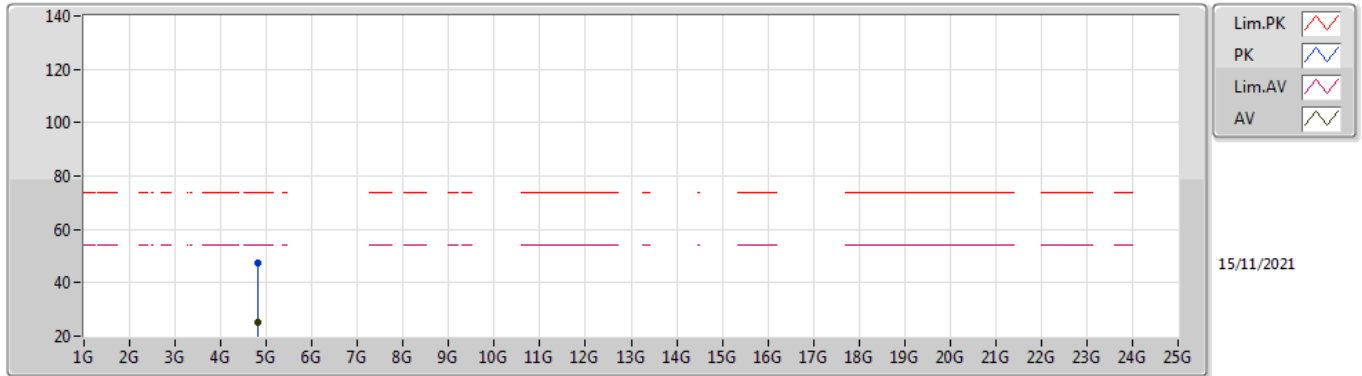
### 2402MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.372G       | 36.16             | 54.00             | -17.84         | 35.01          | 3           | Horizontal | 199            | 1.33          | -       | 1.15          | 27.76      | 7.25       | -          |
| AV   | 2.402G       | 73.47             | Inf               | -Inf           | 34.95          | 3           | Horizontal | 199            | 1.33          | -       | 38.52         | 27.69      | 7.26       | -          |
| PK   | 2.372G       | 58.70             | 74.00             | -15.30         | 35.01          | 3           | Horizontal | 199            | 1.33          | -       | 23.69         | 27.76      | 7.25       | -          |
| PK   | 2.402G       | 95.97             | Inf               | -Inf           | 34.95          | 3           | Horizontal | 199            | 1.33          | -       | 61.02         | 27.69      | 7.26       | -          |

# BT-BR(1Mbps)

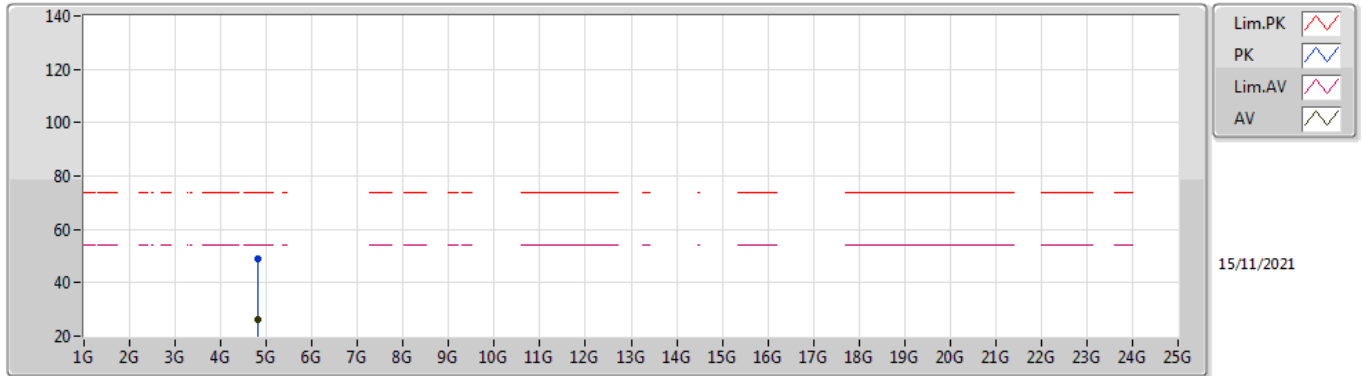
## 2402MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.80432G | 25.11    | 54.00    | -28.89 | 5.82   | 3    | Vertical  | 30      | 2.36   | -       | 19.29  | 31.11 | 8.90 | 34.19 |
| PK   | 4.80432G | 47.61    | 74.00    | -26.39 | 5.82   | 3    | Vertical  | 30      | 2.36   | -       | 41.79  | 31.11 | 8.90 | 34.19 |

## BT-BR(1Mbps)

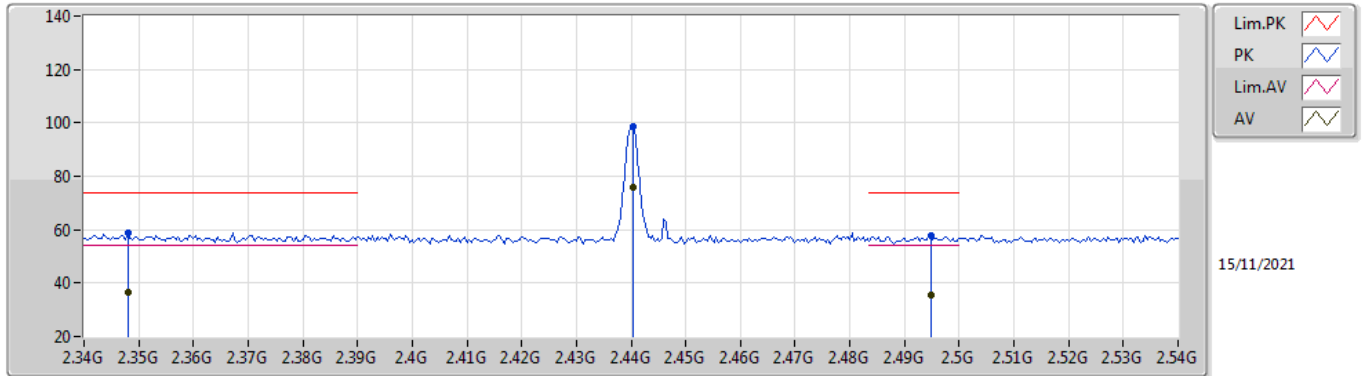
### 2402MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.80454G | 26.31    | 54.00    | -27.69 | 5.82   | 3    | Horizontal | 14      | 1.00   | -       | 20.49  | 31.11 | 8.90 | 34.19 |
| PK   | 4.80454G | 48.81    | 74.00    | -25.19 | 5.82   | 3    | Horizontal | 14      | 1.00   | -       | 42.99  | 31.11 | 8.90 | 34.19 |

## BT-BR(1Mbps)

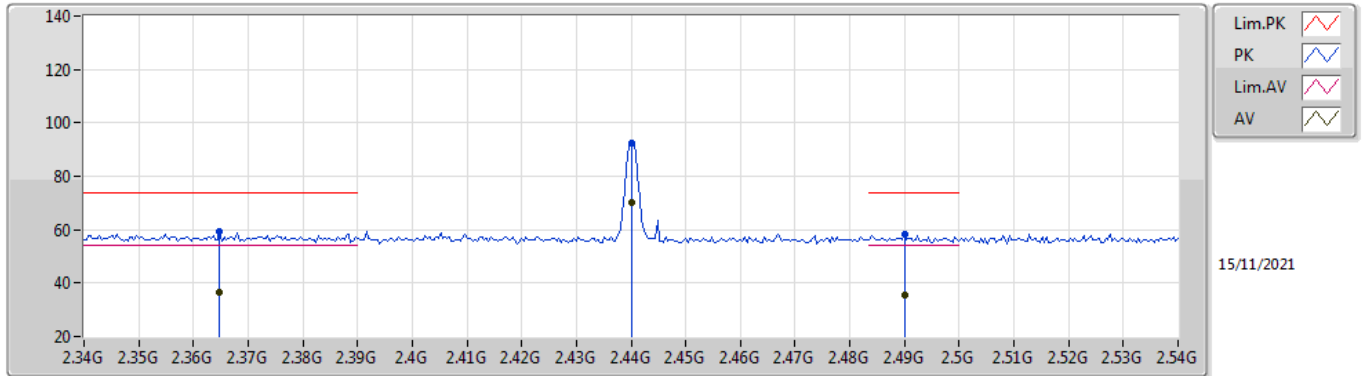
### 2440MHz\_TX



| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.348G  | 36.52    | 54.00    | -17.48 | 35.04  | 3    | Vertical  | 57      | 1.18   | -       | 1.48   | 27.80 | 7.24 | -    |
| AV   | 2.4404G | 75.87    | Inf      | -Inf   | 34.75  | 3    | Vertical  | 57      | 1.18   | -       | 41.12  | 27.46 | 7.29 | -    |
| AV   | 2.4948G | 35.32    | 54.00    | -18.68 | 34.74  | 3    | Vertical  | 57      | 1.18   | -       | 0.58   | 27.40 | 7.34 | -    |
| PK   | 2.348G  | 59.02    | 74.00    | -14.98 | 35.04  | 3    | Vertical  | 57      | 1.18   | -       | 23.98  | 27.80 | 7.24 | -    |
| PK   | 2.4404G | 98.37    | Inf      | -Inf   | 34.75  | 3    | Vertical  | 57      | 1.18   | -       | 63.62  | 27.46 | 7.29 | -    |
| PK   | 2.4948G | 57.82    | 74.00    | -16.18 | 34.74  | 3    | Vertical  | 57      | 1.18   | -       | 23.08  | 27.40 | 7.34 | -    |

## BT-BR(1Mbps)

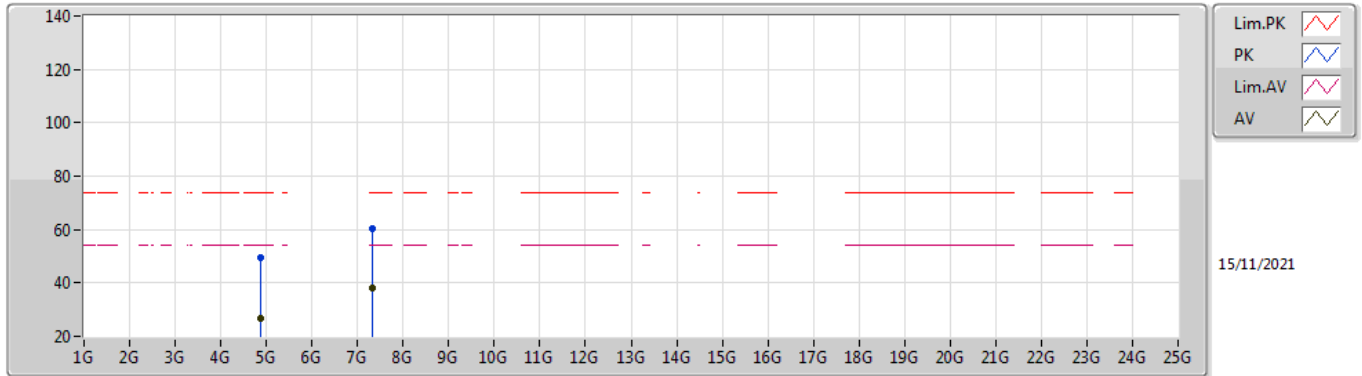
### 2440MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3648G      | 36.63             | 54.00             | -17.37         | 35.01          | 3           | Horizontal | 235            | 1.18          | -       | 1.62          | 27.77      | 7.24       | -          |
| AV   | 2.44G        | 70.02             | Inf               | -Inf           | 34.75          | 3           | Horizontal | 235            | 1.18          | -       | 35.27         | 27.46      | 7.29       | -          |
| AV   | 2.49G        | 35.68             | 54.00             | -18.32         | 34.73          | 3           | Horizontal | 235            | 1.18          | -       | 0.95          | 27.40      | 7.33       | -          |
| PK   | 2.3648G      | 59.13             | 74.00             | -14.87         | 35.01          | 3           | Horizontal | 235            | 1.18          | -       | 24.12         | 27.77      | 7.24       | -          |
| PK   | 2.44G        | 92.52             | Inf               | -Inf           | 34.75          | 3           | Horizontal | 235            | 1.18          | -       | 57.77         | 27.46      | 7.29       | -          |
| PK   | 2.49G        | 58.18             | 74.00             | -15.82         | 34.73          | 3           | Horizontal | 235            | 1.18          | -       | 23.45         | 27.40      | 7.33       | -          |

## BT-BR(1Mbps)

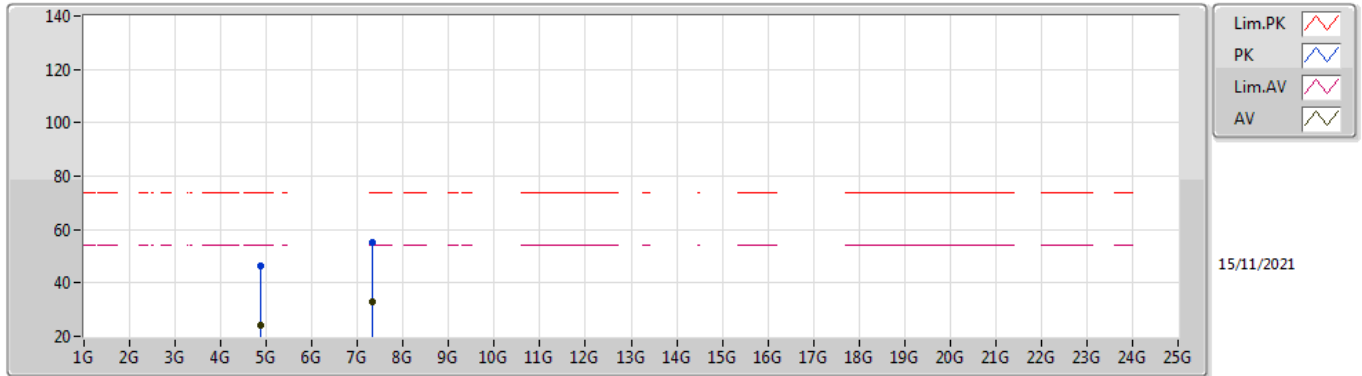
### 2440MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.87997G     | 26.97             | 54.00             | -27.03         | 6.00           | 3           | Vertical  | 1              | 1.07          | -       | 20.97         | 31.20      | 8.96       | 34.16      |
| AV   | 7.32069G     | 38.04             | 54.00             | -15.96         | 12.49          | 3           | Vertical  | 35             | 1.07          | -       | 25.55         | 36.36      | 10.63      | 34.50      |
| PK   | 4.87997G     | 49.47             | 74.00             | -24.53         | 6.00           | 3           | Vertical  | 1              | 1.07          | -       | 43.47         | 31.20      | 8.96       | 34.16      |
| PK   | 7.32069G     | 60.54             | 74.00             | -13.46         | 12.49          | 3           | Vertical  | 35             | 1.07          | -       | 48.05         | 36.36      | 10.63      | 34.50      |

## BT-BR(1Mbps)

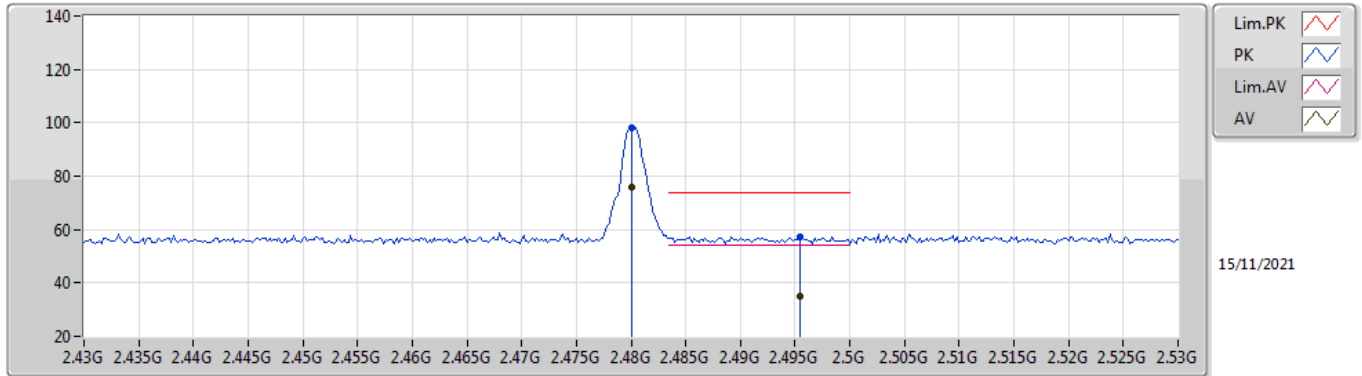
### 2440MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.88017G     | 24.12             | 54.00             | -29.88         | 6.00           | 3           | Horizontal | 73             | 1.19          | -       | 18.12         | 31.20      | 8.96       | 34.16      |
| AV   | 7.31992G     | 32.81             | 54.00             | -21.19         | 12.49          | 3           | Horizontal | 24             | 1.23          | -       | 20.32         | 36.36      | 10.63      | 34.50      |
| PK   | 4.88017G     | 46.62             | 74.00             | -27.38         | 6.00           | 3           | Horizontal | 73             | 1.19          | -       | 40.62         | 31.20      | 8.96       | 34.16      |
| PK   | 7.31992G     | 55.31             | 74.00             | -18.69         | 12.49          | 3           | Horizontal | 24             | 1.23          | -       | 42.82         | 36.36      | 10.63      | 34.50      |

## BT-BR(1Mbps)

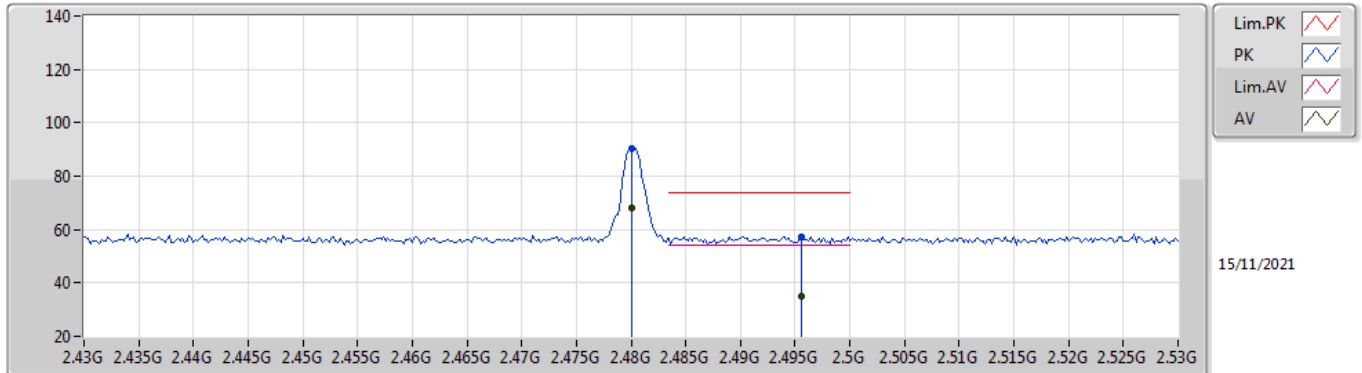
### 2480MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.48G        | 75.62             | Inf               | -Inf           | 34.72          | 3           | Vertical  | 166            | 1.17          | -       | 40.90         | 27.40      | 7.32       | -          |
| AV   | 2.4954G      | 34.90             | 54.00             | -19.10         | 34.74          | 3           | Vertical  | 166            | 1.17          | -       | 0.16          | 27.40      | 7.34       | -          |
| PK   | 2.48G        | 98.12             | Inf               | -Inf           | 34.72          | 3           | Vertical  | 166            | 1.17          | -       | 63.40         | 27.40      | 7.32       | -          |
| PK   | 2.4954G      | 57.40             | 74.00             | -16.60         | 34.74          | 3           | Vertical  | 166            | 1.17          | -       | 22.66         | 27.40      | 7.34       | -          |

## BT-BR(1Mbps)

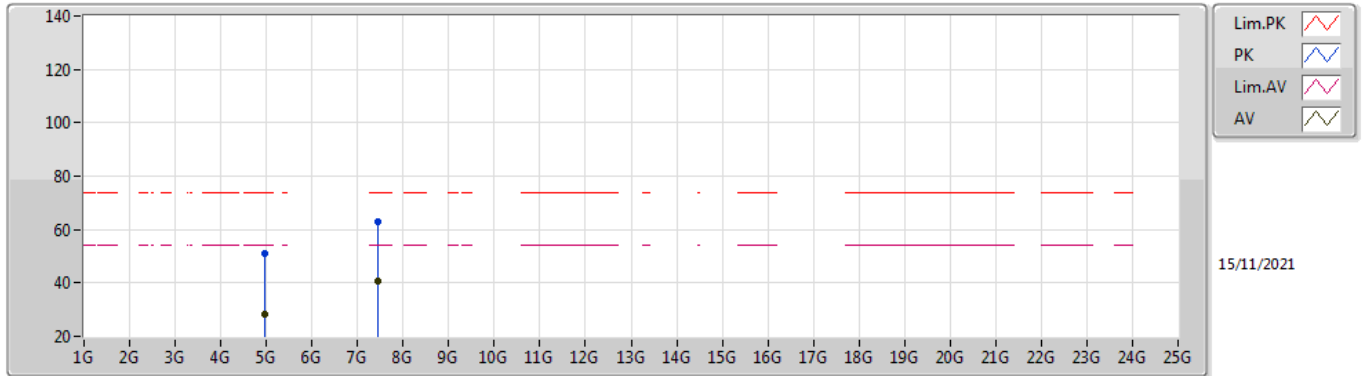
### 2480MHz\_TX



| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|------------|---------|--------|---------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.48G   | 67.91    | Inf      | -Inf   | 34.72  | 3    | Horizontal | 188     | 2.62   | -       | 33.19  | 27.40 | 7.32 | -    |
| AV   | 2.4956G | 35.00    | 54.00    | -19.00 | 34.74  | 3    | Horizontal | 188     | 2.62   | -       | 0.26   | 27.40 | 7.34 | -    |
| PK   | 2.48G   | 90.41    | Inf      | -Inf   | 34.72  | 3    | Horizontal | 188     | 2.62   | -       | 55.69  | 27.40 | 7.32 | -    |
| PK   | 2.4956G | 57.50    | 74.00    | -16.50 | 34.74  | 3    | Horizontal | 188     | 2.62   | -       | 22.76  | 27.40 | 7.34 | -    |

## BT-BR(1Mbps)

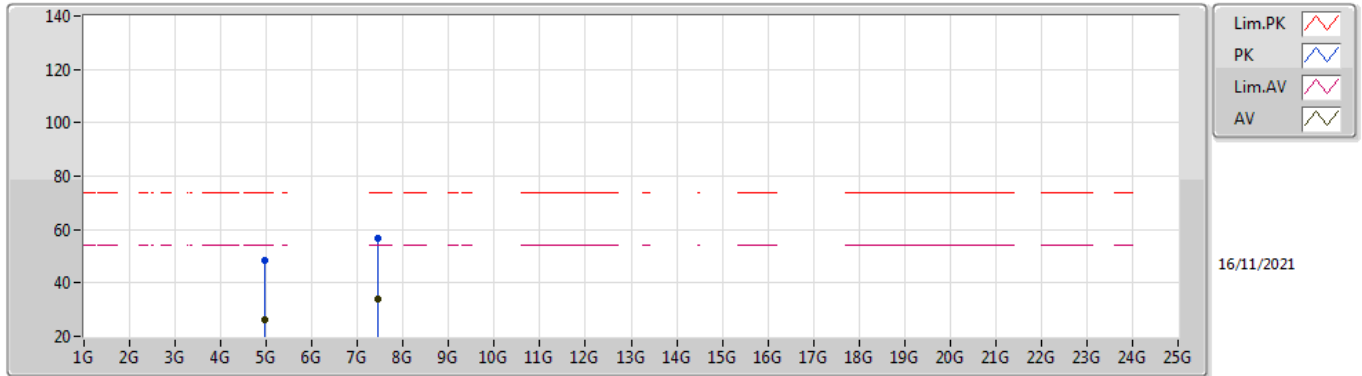
### 2480MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.9599G      | 28.41             | 54.00             | -25.59         | 6.32           | 3           | Vertical  | 353            | 1.00          | -       | 22.09         | 31.42      | 9.02       | 34.12      |
| AV   | 7.43978G     | 40.66             | 54.00             | -13.34         | 12.51          | 3           | Vertical  | 22             | 1.04          | -       | 28.15         | 36.28      | 10.72      | 34.49      |
| PK   | 4.9599G      | 50.91             | 74.00             | -23.09         | 6.32           | 3           | Vertical  | 353            | 1.00          | -       | 44.59         | 31.42      | 9.02       | 34.12      |
| PK   | 7.43978G     | 63.16             | 74.00             | -10.84         | 12.51          | 3           | Vertical  | 22             | 1.04          | -       | 50.65         | 36.28      | 10.72      | 34.49      |

## BT-BR(1Mbps)

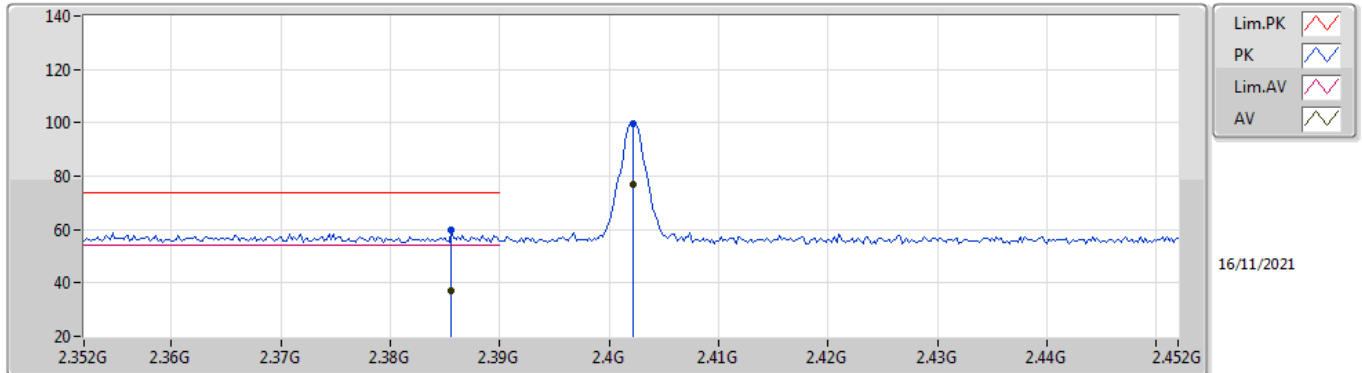
### 2480MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.96051G     | 26.03             | 54.00             | -27.97         | 6.32           | 3           | Horizontal | 0              | 1.05          | -       | 19.71         | 31.42      | 9.02       | 34.12      |
| AV   | 7.43977G     | 34.09             | 54.00             | -19.91         | 12.51          | 3           | Horizontal | 338            | 1.50          | -       | 21.58         | 36.28      | 10.72      | 34.49      |
| PK   | 4.96051G     | 48.53             | 74.00             | -25.47         | 6.32           | 3           | Horizontal | 0              | 1.05          | -       | 42.21         | 31.42      | 9.02       | 34.12      |
| PK   | 7.43977G     | 56.59             | 74.00             | -17.41         | 12.51          | 3           | Horizontal | 338            | 1.50          | -       | 44.08         | 36.28      | 10.72      | 34.49      |

## BT-EDR(3Mbps)

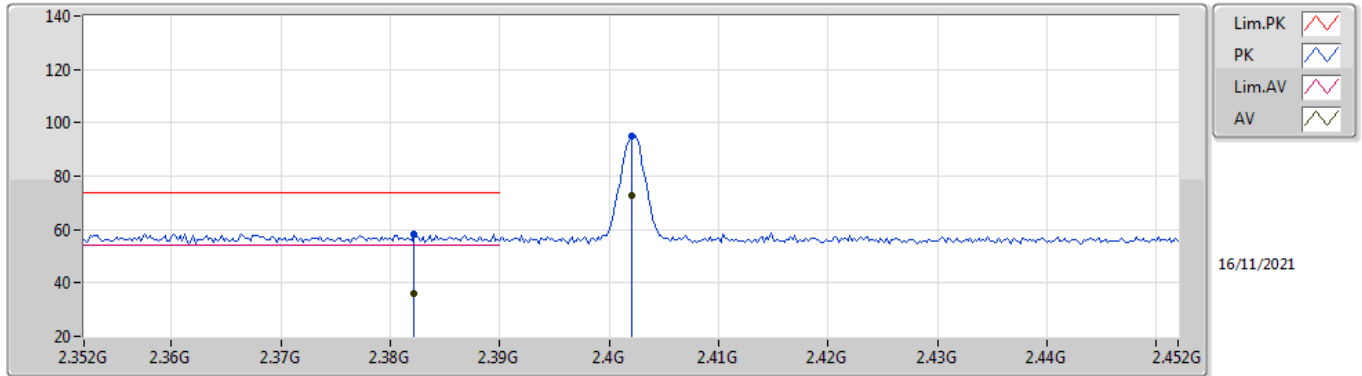
### 2402MHz\_TX



| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.3856G | 37.18    | 54.00    | -16.82 | 34.98  | 3    | Vertical  | 188     | 1.17   | -       | 2.20   | 27.73 | 7.25 | -    |
| AV   | 2.4022G | 76.90    | Inf      | -Inf   | 34.95  | 3    | Vertical  | 188     | 1.17   | -       | 41.95  | 27.69 | 7.26 | -    |
| PK   | 2.3856G | 59.71    | 74.00    | -14.29 | 34.98  | 3    | Vertical  | 188     | 1.17   | -       | 24.73  | 27.73 | 7.25 | -    |
| PK   | 2.4022G | 99.40    | Inf      | -Inf   | 34.95  | 3    | Vertical  | 188     | 1.17   | -       | 64.45  | 27.69 | 7.26 | -    |

## BT-EDR(3Mbps)

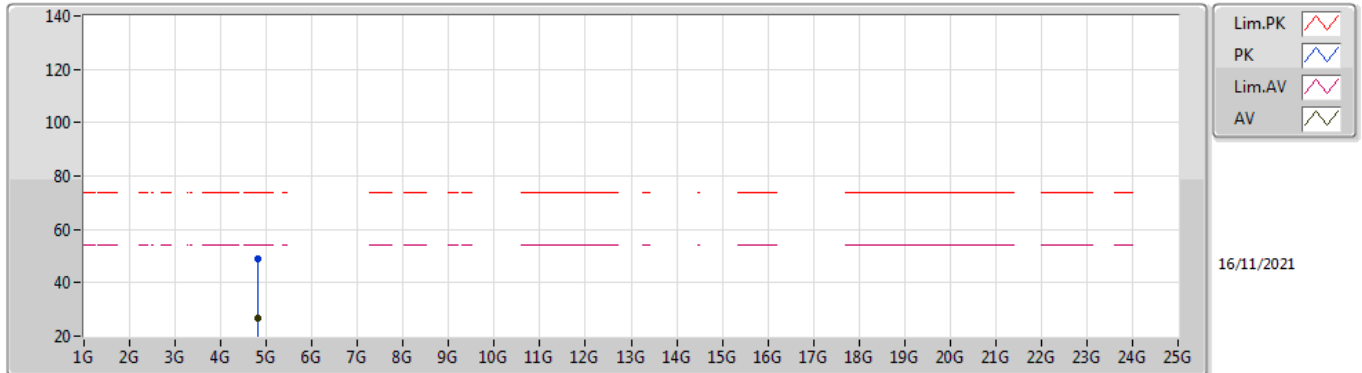
### 2402MHz\_TX



| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|------------|---------|--------|---------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.3822G | 36.02    | 54.00    | -17.98 | 34.99  | 3    | Horizontal | 6       | 2.75   | -       | 1.03   | 27.74 | 7.25 | -    |
| AV   | 2.402G  | 72.59    | Inf      | -Inf   | 34.95  | 3    | Horizontal | 6       | 2.75   | -       | 37.64  | 27.69 | 7.26 | -    |
| PK   | 2.3822G | 58.52    | 74.00    | -15.48 | 34.99  | 3    | Horizontal | 6       | 2.75   | -       | 23.53  | 27.74 | 7.25 | -    |
| PK   | 2.402G  | 95.09    | Inf      | -Inf   | 34.95  | 3    | Horizontal | 6       | 2.75   | -       | 60.14  | 27.69 | 7.26 | -    |

## BT-EDR(3Mbps)

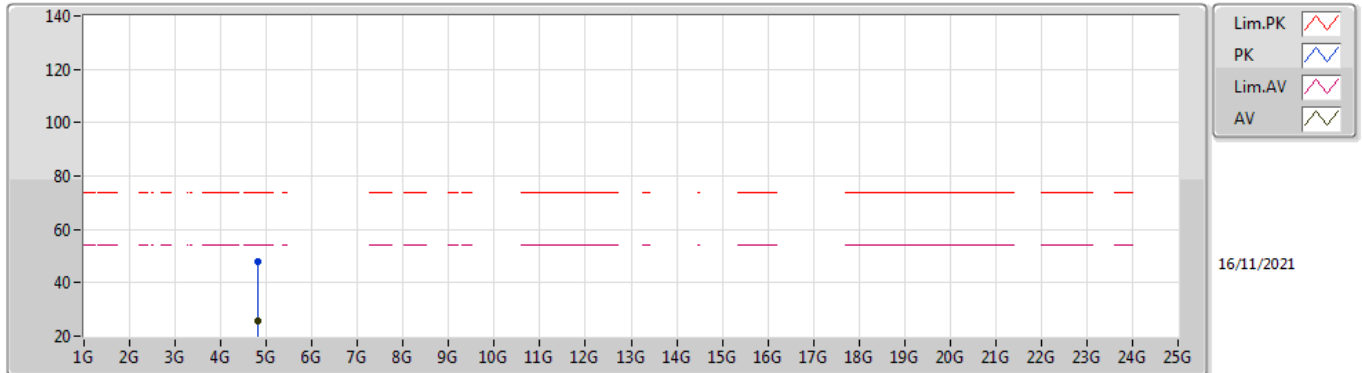
### 2402MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.80423G     | 26.54             | 54.00             | -27.46         | 5.82           | 3           | Vertical  | 39             | 2.94          | -       | 20.72         | 31.11      | 8.90       | 34.19      |
| PK   | 4.80423G     | 49.04             | 74.00             | -24.96         | 5.82           | 3           | Vertical  | 39             | 2.94          | -       | 43.22         | 31.11      | 8.90       | 34.19      |

## BT-EDR(3Mbps)

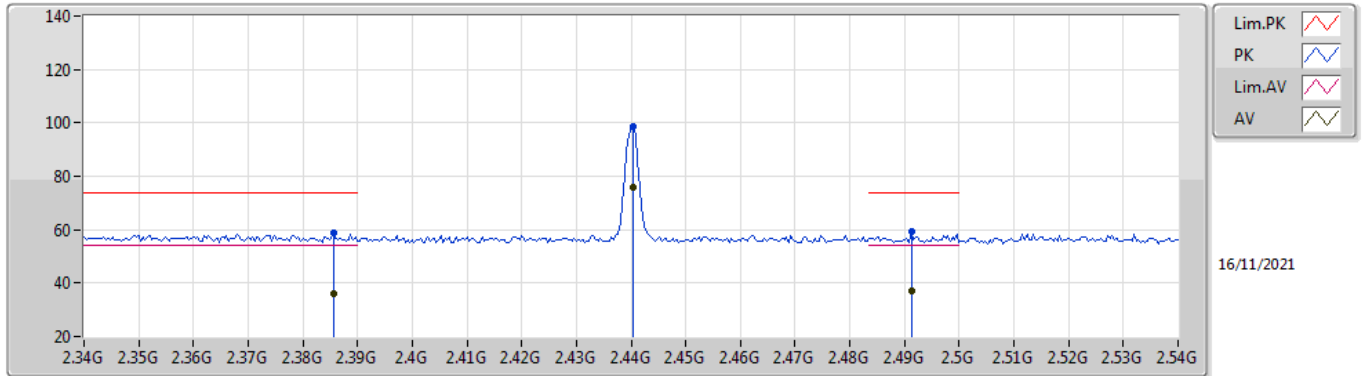
### 2402MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.80431G     | 25.59             | 54.00             | -28.41         | 5.82           | 3           | Horizontal | 350            | 2.73          | -       | 19.77         | 31.11      | 8.90       | 34.19      |
| PK   | 4.80431G     | 48.09             | 74.00             | -25.91         | 5.82           | 3           | Horizontal | 350            | 2.73          | -       | 42.27         | 31.11      | 8.90       | 34.19      |

## BT-EDR(3Mbps)

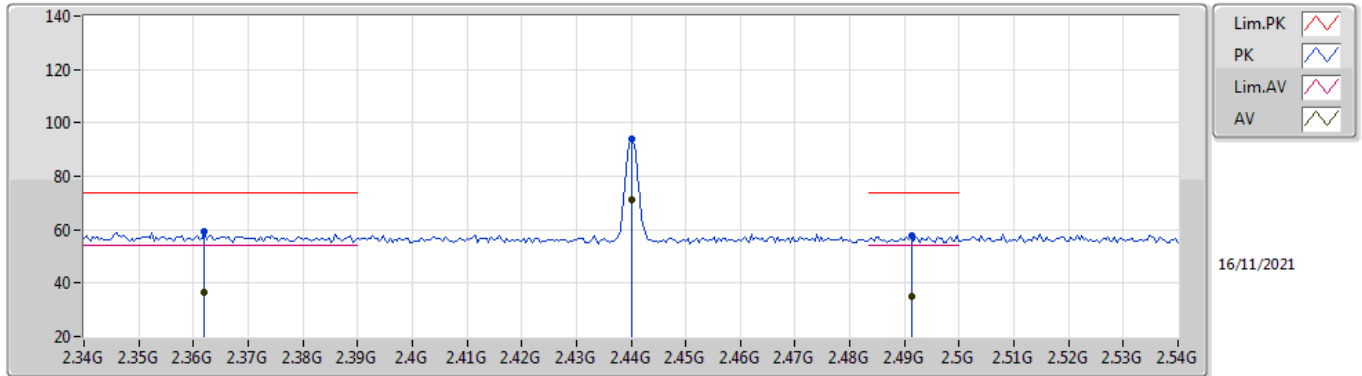
## 2440MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3856G      | 36.04             | 54.00             | -17.96         | 34.98          | 3           | Vertical  | 220            | 1.60          | -       | 1.06          | 27.73      | 7.25       | -          |
| AV   | 2.4404G      | 76.10             | Inf               | -Inf           | 34.75          | 3           | Vertical  | 220            | 1.60          | -       | 41.35         | 27.46      | 7.29       | -          |
| AV   | 2.4912G      | 36.90             | 54.00             | -17.10         | 34.73          | 3           | Vertical  | 220            | 1.60          | -       | 2.17          | 27.40      | 7.33       | -          |
| PK   | 2.3856G      | 58.54             | 74.00             | -15.46         | 34.98          | 3           | Vertical  | 220            | 1.60          | -       | 23.56         | 27.73      | 7.25       | -          |
| PK   | 2.4404G      | 98.60             | Inf               | -Inf           | 34.75          | 3           | Vertical  | 220            | 1.60          | -       | 63.85         | 27.46      | 7.29       | -          |
| PK   | 2.4912G      | 59.40             | 74.00             | -14.60         | 34.73          | 3           | Vertical  | 220            | 1.60          | -       | 24.67         | 27.40      | 7.33       | -          |

## BT-EDR(3Mbps)

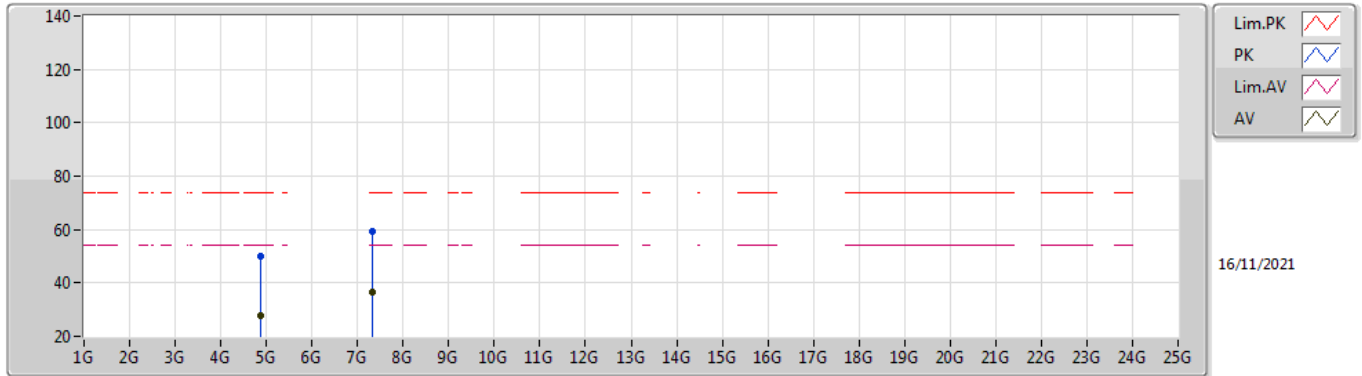
### 2440MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.362G       | 36.67             | 54.00             | -17.33         | 35.02          | 3           | Horizontal | 193            | 2.74          | -       | 1.65          | 27.78      | 7.24       | -          |
| AV   | 2.44G        | 71.34             | Inf               | -Inf           | 34.75          | 3           | Horizontal | 193            | 2.74          | -       | 36.59         | 27.46      | 7.29       | -          |
| AV   | 2.4912G      | 35.04             | 54.00             | -18.96         | 34.73          | 3           | Horizontal | 193            | 2.74          | -       | 0.31          | 27.40      | 7.33       | -          |
| PK   | 2.362G       | 59.17             | 74.00             | -14.83         | 35.02          | 3           | Horizontal | 193            | 2.74          | -       | 24.15         | 27.78      | 7.24       | -          |
| PK   | 2.44G        | 93.84             | Inf               | -Inf           | 34.75          | 3           | Horizontal | 193            | 2.74          | -       | 59.09         | 27.46      | 7.29       | -          |
| PK   | 2.4912G      | 57.54             | 74.00             | -16.46         | 34.73          | 3           | Horizontal | 193            | 2.74          | -       | 22.81         | 27.40      | 7.33       | -          |

## BT-EDR(3Mbps)

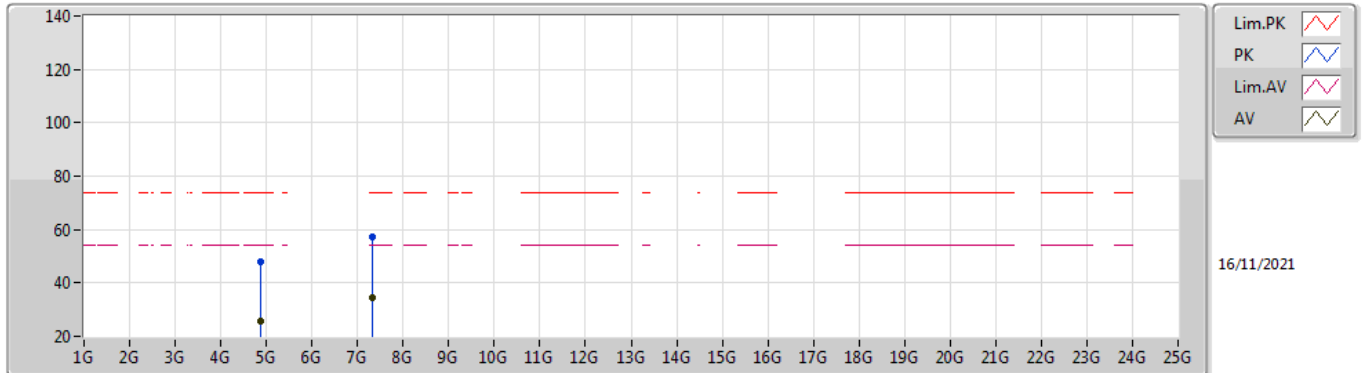
### 2440MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.88021G     | 27.53             | 54.00             | -26.47         | 6.00           | 3           | Vertical  | 334            | 1.00          | -       | 21.53         | 31.20      | 8.96       | 34.16      |
| AV   | 7.3203G      | 36.60             | 54.00             | -17.40         | 12.49          | 3           | Vertical  | 126            | 2.40          | -       | 24.11         | 36.36      | 10.63      | 34.50      |
| PK   | 4.88021G     | 50.03             | 74.00             | -23.97         | 6.00           | 3           | Vertical  | 334            | 1.00          | -       | 44.03         | 31.20      | 8.96       | 34.16      |
| PK   | 7.3203G      | 59.10             | 74.00             | -14.90         | 12.49          | 3           | Vertical  | 126            | 2.40          | -       | 46.61         | 36.36      | 10.63      | 34.50      |

## BT-EDR(3Mbps)

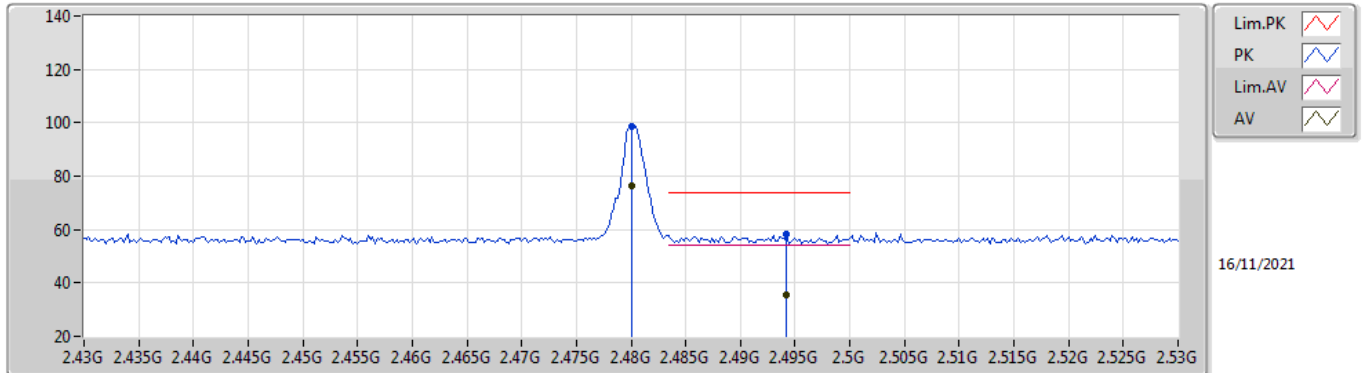
### 2440MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.88009G     | 25.44             | 54.00             | -28.56         | 6.00           | 3           | Horizontal | 64             | 1.50          | -       | 19.44         | 31.20      | 8.96       | 34.16      |
| AV   | 7.32022G     | 34.65             | 54.00             | -19.35         | 12.49          | 3           | Horizontal | 267            | 1.05          | -       | 22.16         | 36.36      | 10.63      | 34.50      |
| PK   | 4.88009G     | 47.94             | 74.00             | -26.06         | 6.00           | 3           | Horizontal | 64             | 1.50          | -       | 41.94         | 31.20      | 8.96       | 34.16      |
| PK   | 7.32022G     | 57.15             | 74.00             | -16.85         | 12.49          | 3           | Horizontal | 267            | 1.05          | -       | 44.66         | 36.36      | 10.63      | 34.50      |

## BT-EDR(3Mbps)

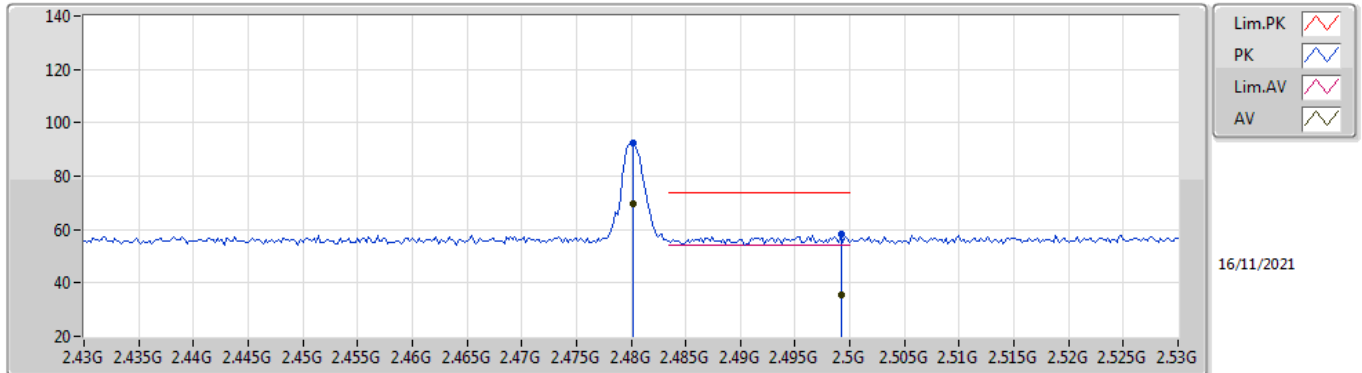
### 2480MHz\_TX



| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.48G   | 76.15    | Inf      | -Inf   | 34.72  | 3    | Vertical  | 191     | 1.17   | -       | 41.43  | 27.40 | 7.32 | -    |
| AV   | 2.4942G | 35.62    | 54.00    | -18.38 | 34.74  | 3    | Vertical  | 191     | 1.17   | -       | 0.88   | 27.40 | 7.34 | -    |
| PK   | 2.48G   | 98.65    | Inf      | -Inf   | 34.72  | 3    | Vertical  | 191     | 1.17   | -       | 63.93  | 27.40 | 7.32 | -    |
| PK   | 2.4942G | 58.12    | 74.00    | -15.88 | 34.74  | 3    | Vertical  | 191     | 1.17   | -       | 23.38  | 27.40 | 7.34 | -    |

## BT-EDR(3Mbps)

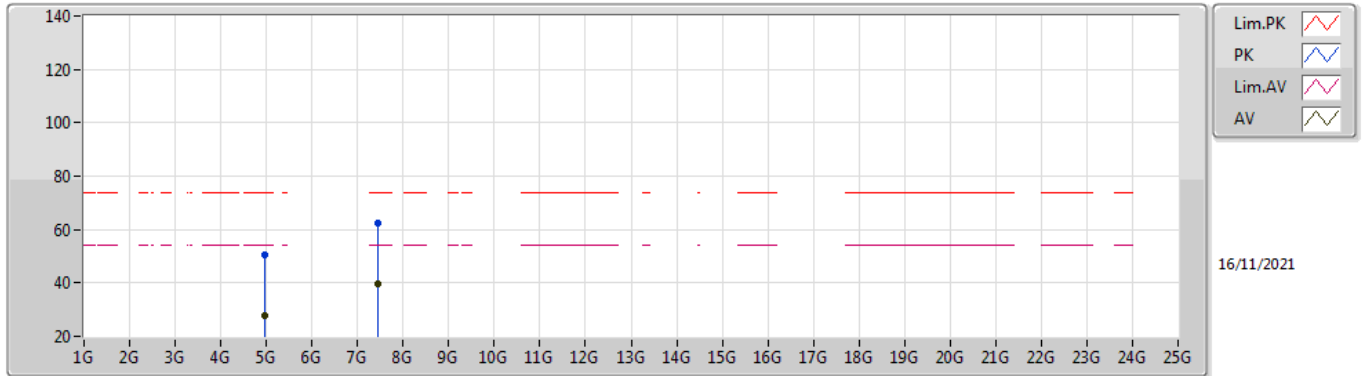
### 2480MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4802G      | 69.77             | Inf               | -Inf           | 34.72          | 3           | Horizontal | 18             | 2.08          | -       | 35.05         | 27.40      | 7.32       | -          |
| AV   | 2.4992G      | 35.69             | 54.00             | -18.31         | 34.74          | 3           | Horizontal | 18             | 2.08          | -       | 0.95          | 27.40      | 7.34       | -          |
| PK   | 2.4802G      | 92.27             | Inf               | -Inf           | 34.72          | 3           | Horizontal | 18             | 2.08          | -       | 57.55         | 27.40      | 7.32       | -          |
| PK   | 2.4992G      | 58.19             | 74.00             | -15.81         | 34.74          | 3           | Horizontal | 18             | 2.08          | -       | 23.45         | 27.40      | 7.34       | -          |

## BT-EDR(3Mbps)

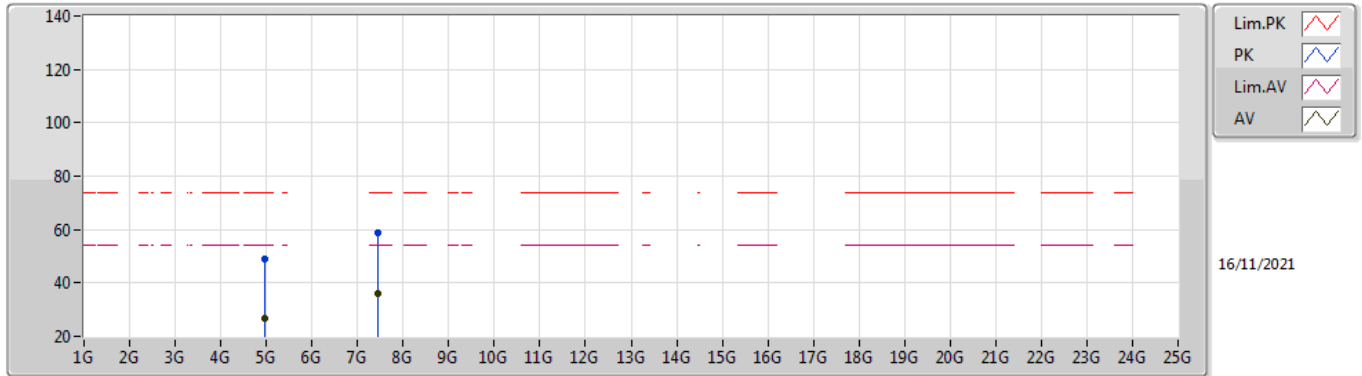
### 2480MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL    | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|-------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB)  | (dB)  |
| AV   | 4.96017G | 27.92    | 54.00    | -26.08 | 6.32   | 3    | Vertical  | 352     | 1.03   | -       | 21.60  | 31.42 | 9.02  | 34.12 |
| AV   | 7.44029G | 39.70    | 54.00    | -14.30 | 12.51  | 3    | Vertical  | 180     | 1.03   | -       | 27.19  | 36.28 | 10.72 | 34.49 |
| PK   | 4.96017G | 50.42    | 74.00    | -23.58 | 6.32   | 3    | Vertical  | 352     | 1.03   | -       | 44.10  | 31.42 | 9.02  | 34.12 |
| PK   | 7.44029G | 62.20    | 74.00    | -11.80 | 12.51  | 3    | Vertical  | 180     | 1.03   | -       | 49.69  | 36.28 | 10.72 | 34.49 |

## BT-EDR(3Mbps)

### 2480MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw    | AF    | CL    | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|---------|--------|-------|-------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |         | (dBuV) | (dB)  | (dB)  | (dB)  |
| AV   | 4.96022G | 26.47    | 54.00    | -27.53 | 6.32   | 3    | Horizontal | 227     | 1.33   | -       | 20.15  | 31.42 | 9.02  | 34.12 |
| AV   | 7.44022G | 36.22    | 54.00    | -17.78 | 12.51  | 3    | Horizontal | 68      | 2.34   | -       | 23.71  | 36.28 | 10.72 | 34.49 |
| PK   | 4.96022G | 48.97    | 74.00    | -25.03 | 6.32   | 3    | Horizontal | 227     | 1.33   | -       | 42.65  | 31.42 | 9.02  | 34.12 |
| PK   | 7.44022G | 58.72    | 74.00    | -15.28 | 12.51  | 3    | Horizontal | 68      | 2.34   | -       | 46.21  | 36.28 | 10.72 | 34.49 |