# RADIO TEST REPORT

| | | |
|---|---|---|
| FCC ID | : | UDX-600201010 |
| Equipment | : | Cisco Wireless 9176I Series Wi-Fi 7 Access Point |
| Brand Name | : | CISCO |
| Model Name | : | CW9176I |
| Applicant | : | Cisco Systems, Inc.<br>170 West Tasman Drive, San Jose, CA 95134 USA |
| Manufacturer | : | Cisco Systems, Inc.<br>170 West Tasman Drive, San Jose, CA 95134 USA |
| Standard | : | 47 CFR FCC Part 15.247 |

**The product was received on Mar. 07, 2024, and testing was started from Apr. 08, 2024 and completed on Jun. 24, 2024. We, Sporton International Inc. Hsinchu 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. Hsinchu Laboratory, the test report shall not be reproduced except in full.**

**Approved by: Sam Chen**

***Sporton International Inc. Hsinchu Laboratory***
*No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)*

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**Photographs of EUT v01**

# History of this test report

| Report No. | Version | Description | Issued Date |
|---|---|---|---|
| FR430535AA | 01 | Initial issue of report | Nov. 05, 2024 |
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# 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) | DTS Bandwidth | PASS | - |
| 3.3 | 15.247(b) | Maximum Conducted Output Power | PASS | - |
| 3.4 | 15.247(e) | Power Spectral Density | PASS | - |
| 3.5 | 15.247(d) | Emissions in Non-restricted Frequency Bands | PASS | - |
| 3.6 | 15.247(d) | Emissions in Restricted Frequency Bands | PASS | - |

| **Conformity Assessment Condition:** |
|---|
| 1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.<br>2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty". |
| **Disclaimer:** |
| The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity. |

**Reviewed by: Sam Chen**
**Report Producer: Wendy Pan**

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| Frequency Range (MHz) | Bluetooth Mode | Ch. Frequency (MHz) | Channel Number |
|---|---|---|---|
| 2400-2483.5 | LE | 2402-2480 | 0-39 [40] |

| Band | Mode | BWch (MHz) | Nant |
|---|---|---|---|
| 2.4-2.4835GHz | BT-LE(1Mbps) | 1 | 1 |
| 2.4-2.4835GHz | BT-LE(500Kb/s) | 1 | 1 |
| 2.4-2.4835GHz | BT-LE(125Kb/s) | 1 | 1 |
| 2.4-2.4835GHz | BT-LE(2Mbps) | 2 | 1 |

Note:
- Bluetooth LE uses a GFSK modulation.
- BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

| Ant. | RF Port | Brand Name | Model Name | Ant. Type | Connector | Gain (dBi) | Modes of Operation |
|---|---|---|---|---|---|---|---|
| 1 | 1 | WNC | 95XEAK15.GAV | PCB | I-PEX | Note 1 | 2.4GHz, 5GHz UNII 1~2A (Radio 1) |
| 2 | 3 | WNC | 95XEAK15.GAW | PCB | I-PEX | | |
| 3 | 2 | WNC | 95XEAK15.GAY | PIFA | I-PEX | | |
| 4 | 4 | WNC | 95XEAK15.GAX | PIFA | I-PEX | | |
| 5 | 2 | WNC | 95XEAK15.GAZ | PCB | I-PEX | | 5GHz UNII 1~3 or UNII 2C~3 only (Radio 2) |
| 6 | 3 | WNC | 95XEAK15.GB1 | PCB | I-PEX | | |
| 7 | 1 | WNC | 95XEAK15.GB2 | PIFA | I-PEX | | |
| 8 | 4 | WNC | 95XEAK15.GB3 | PIFA | I-PEX | | |
| 9 | 1 | WNC | 95XEAK15.GB4 | PCB | I-PEX | | 6GHz UNII 5~8 (Radio 3) |
| 10 | 2 | WNC | 95XEAK15.GB5 | PCB | I-PEX | | |
| 11 | 3 | WNC | 95XEAK15.GB7 | PIFA | I-PEX | | |
| 12 | 4 | WNC | 95XEAK15.GB6 | PIFA | I-PEX | | |
| 13 | 2 | WNC | 95XEAK15.GBB | PIFA | I-PEX | | 2.4GHz, 5GHz UNII 1~3, 6GHz UNII 5~8 (Radio 4(Pine Scanning radio)) |
| 14 | 1 | WNC | 95XEAK15.GBA | PIFA | I-PEX | | |
| 15 | 1 | WNC | 95XEAK15.GB8 | PIFA | I-PEX | | Bluetooth and Zigbee (Radio 5) |
| 16 | 1 | WNC | 95XEAK15.GB9 | PIFA | IPEX | 1.16GHz~1.19GHz: 2.9<br>1.56GHz~1.59GHz: 3.9 | GPS (Radio 6) |
| 17 | 1 | WNC | 95XEAK15.GBF | PIFA | IPEX | 5.7 | UWB (Radio 7) |
| 18 | 2 | WNC | 95XEAK15.GBE | PCB | IPEX | 6 | |
| 19 | 3 | WNC | 95XEAK15.GBE | PCB | IPEX | 7.3 | |
| 20 | 4 | WNC | 95XEAK15.GBE | PCB | IPEX | 5.6 | |

Note 1:

| Ant. | Antenna Gain (dBi) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | WLAN 2.4GHz (Radio 1) | WLAN 5GHz UNII 1~2A (Radio 1) | | | | | | | |
| | | 5.2GHz | | | 5.3GHz | | | | |
| 1 | 4.98 | 2.42 | | | 3.3 | | | | |
| 2 | 4.38 | 2.59 | | | 2.48 | | | | |
| 3 | 3.95 | 4.86 | | | 5.17 | | | | |
| 4 | 3.56 | 3.03 | | | 2.66 | | | | |
| Ant. | WLAN 5GHz UNII 1~3 (Radio 2) | | | | | | | | |
| | 5.2GHz | 5.3GHz | | | 5.6GHz | | | 5.785GHz | |
| 5 | 2.65 | 3.3 | | | 2.92 | | | 2.37 | |
| 6 | 2.18 | 2.69 | | | 3.01 | | | 2.91 | |
| 7 | 3.63 | 3.77 | | | 3.93 | | | 3.91 | |
| 8 | 4.44 | 3.9 | | | 3.79 | | | 3.47 | |
| Ant. | WLAN 6GHz UNII 5~8 (Radio 3) | | | | | | | | |
| | 6.175GHz | 6.475GHz | | | 6.695GHz | | | 6.995GHz | |
| 9 | 3.45 | 4.72 | | | 3.33 | | | 3.43 | |
| 10 | 4.22 | 5.11 | | | 4.08 | | | 4.61 | |
| 11 | 4.83 | 3.79 | | | 3.71 | | | 4.53 | |
| 12 | 5.01 | 4.66 | | | 4.66 | | | 5.6 | |
| Ant. | WLAN 2.4GHz/5GHz UNII 1~3/WLAN 6GHz UNII 5~8 (Radio 4(Pine Scanning radio)) | | | | | | | | |
| | 2.45GHz | 5.2GHz | 5.3GHz | 5.6GHz | 5.785GHz | 6.175GHz | 6.475GHz | 6.695GHz | 6.995GHz |
| 13 | 2.46 | 2.35 | 2.62 | 4.9 | 3.33 | 5.53 | 4.82 | 4.27 | 3.16 |
| 14 | 2.39 | 4.11 | 4.47 | 5.67 | 4.75 | 6.1 | 4.65 | 4.58 | 6.18 |
| Ant. | Bluetooth/Zigbee (Radio 5) | | | | | | | | |
| 15 | 3.58 | | | | | | | | |

Note 2:

| Item | Directional Gain (dBi) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | WLAN 2.4GHz (Radio 1) | WLAN 5GHz UNII 1~2A (Radio 1) | | | | | | |
| | | 5.2GHz | | | 5.3GHz | | | |
| 2T1S | 5.13 | 4.86 | | | 5.17 | | | |
| 2T2S | 4.98 | 4.86 | | | 5.17 | | | |
| 4T1S | 6.92 | 5.15 | | | 5.29 | | | |
| 4T2S | 4.98 | 4.86 | | | 5.17 | | | |
| 4T4S | 4.98 | 4.86 | | | 5.17 | | | |
| Item | WLAN 5GHz UNII 1~3 (Radio 2) / WLAN 6GHz UNII 5~8 (Radio 3) | | | | | | | |
| | 5.2GHz | 5.3GHz | 5.6GHz | 5.785GHz | 6.175GHz | 6.475GHz | 6.695GHz | 6.995GHz |
| 2T1S | 3.63 | 3.77 | 3.93 | 3.91 | 4.44 | 3.9 | 3.93 | 3.91 |
| 2T2S | 3.63 | 3.77 | 3.93 | 3.91 | 4.44 | 3.9 | 3.93 | 3.91 |
| 4T1S | 5.24 | 5 | 5.57 | 4.69 | 6.4 | 6.14 | 5.25 | 6.29 |
| 4T2S | 4.44 | 3.9 | 3.93 | 3.91 | 5.01 | 5.11 | 4.66 | 5.6 |
| 4T4S | 4.44 | 3.9 | 3.93 | 3.91 | 5.01 | 5.11 | 4.66 | 5.6 |

Note 3: The above information (excepting Ant. 1~15 antenna gain and directional gain) was declared by manufacturer.

Note 4: Radio 1~3: Maximum Directional Gain following KDB662911 D03.

**For Radio 1**

**For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (1TX, 2TX, 4TX/4RX) and**

**For 5GHz (UNII 1~2A) IEEE 802.11a/n/ac/ax/be mode (1TX, 2TX, 4TX/4RX):**

**1TX**

Only Port 1 can be use as transmitting antenna.

**2TX**

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

**4TX**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

**4RX**

Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3, Port 4 could receive simultaneously.

**For Radio 2**
**For 5GHz (UNII 1~3 or UNII 2C~3):**
**For IEEE 802.11a/n/ac/ax/be mode (1TX, 2TX, 4TX/4RX):**
**1TX**
Only Port 1 can be use as transmitting antenna.
**2TX**
Port 1, Port 2 can be use as transmitting antenna.
Port 1, Port 2 could transmitting simultaneously.
**4TX**
Port 1, Port 2, Port 3 and Port 4 can be used as transmitting antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.
**4RX**
Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.
Port 1, Port 2, Port 3, Port 4 could receive simultaneously.
**For Radio 3**
**For 6GHz (UNII 5~8):**
**For IEEE 802.11ax/be mode (1TX, 2TX, 4TX/4RX):**
**1TX**
Only Port 1 can be use as transmitting antenna.
**2TX**
Port 1, Port 2 can be use as transmitting antenna.
Port 1, Port 2 could transmitting simultaneously.
**4TX**
Port 1, Port 2, Port 3 and Port 4 can be used as transmitting antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.
**4RX**
Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.
Port 1, Port 2, Port 3, Port 4 could receive simultaneously.
**For Radio 4(Pine Scanning radio)**
**For 2.4GHz:**
**For IEEE 802.11b/g/n/VHT/ax mode (1TX/2RX):**
Only Port 1 can be used as transmitting/receiving functions.
Port 1~2 could receive simultaneously.
**For 5GHz (UNII 1~3):**
**For IEEE 802.11a/n/ac/ax mode (1TX/2RX):**
Only Port 1 can be used as transmitting/receiving functions.
Port 1~2 could receive simultaneously.
**For 6GHz (UNII 5~8):**
**For IEEE 802.11ax mode (1TX/2RX):**
Only Port 1 can be used as transmitting/receiving functions.
Port 1~2 could receive simultaneously.
**For Radio 5:**
**For Bluetooth/Zigbee mode (1TX/1RX)**
Only Port 1 can be used as transmitting/receiving functions.
**For Radio 6:**
**For GPS (1TX/1RX)**
Only Port 1 can be used as transmitting/receiving functions.
**For Radio 7:**
**For UWB (1TX/4RX)**
Mounting on a Wall
Only Port 1 can be used as transmitting functions.
Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.
Port 1, Port 2, Port 3, Port 4 could receive simultaneously.
Mounting on a Ceiling
Only Port 2 can be used as transmitting functions.

Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.
Port 1, Port 2, Port 3, Port 4 could receive simultaneously.

### 1.1.3 Mode Test Duty Cycle

| Mode | DC | DCF (dB) | T (s) | VBW (Hz)_1/T |
|---|---|---|---|---|
| BT-LE(1Mbps) | 0.631 | 2 | 395u | 3k |
| BT-LE(2Mbps) | 0.34 | 4.69 | 215u | 10k |

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

### 1.1.4 EUT Operational Condition

| | | | | |
|---|---|---|---|---|
| **EUT Power Type** | From PoE | | | |
| **Function** | ☒ | Point-to-multipoint | ☐ | Point-to-point |
| **Test Software Version** | Tera Term 4.75 | | | |
| **Support Mode** | ☒ | LE 1M PHY: 1 Mb/s | | |
| | ☒ | LE Coded PHY (S=2): 500 Kb/s | | |
| | ☒ | LE Coded PHY (S=8): 125 Kb/s | | |
| | ☒ | LE 2M PHY: 2 Mb/s | | |

Note: The above information was declared by manufacturer.

### 1.1.5 Table for Radio function

| Function / Radio | WLAN 2.4GHz | WLAN 5GHz | WLAN 6GHz | Bluetooth | Zigbee | GPS | UWB |
|---|---|---|---|---|---|---|---|
| 1 | V | V (UNII 1~2A) | - | - | - | - | - |
| 2 | - | V (UNII 2C~3/ UNII 1~3) | - | - | - | - | - |
| 3 | - | - | V | - | - | - | - |
| 4 (Pine Scanning radio) | V | V (UNII 1~3) | V | - | - | - | - |
| 5 | - | - | - | V | V | - | - |
| 6 | - | - | - | - | - | V | - |
| 7 | - | - | - | - | - | - | V |

Note1: The above information was declared by manufacturer.
Note2: For WLAN 2.4GHz: The Radio 1 and Radio 4(Pine Scanning radio) can't operate at the same frequency.
For WLAN 5GHz: The Radio 1, 2 and Radio 4(Pine Scanning radio) can't operate at the same frequency.
For WLAN 6GHz: The Radio 3 and Radio 4(Pine Scanning radio) can't operate at the same frequency simultaneously.

### 1.1.6 Table for Multiple Listing

| Equipment Name | Model Name | SW | Frequencies supported by 320MHz |
|---|---|---|---|
| Cisco Wireless 9176I Series Wi-Fi 7 Access Point | CW9176I | Cisco | 6105, 6265, 6425, 6745 MHz |
| | | Meraki | 6105, 6265, 6425, 6585, 6745, 6905 MHz |

Note: The above information was declared by manufacturer.

### 1.1.7 Table for EUT Support Function

| Function | Supports Band |
|---|---|
| AP Router | 2.4GHz, 5GHz UNII 1~3, 6GHz UNII 5~8, Bluetooth, Zigbee, UWB and GPS |
| Mesh | 6GHz UNII 5~8 |

Note: The above information was declared by manufacturer.

### 1.1.8 Table for EUT Operation Function

| Mode | Operation Function |
|---|---|
| 1 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 2 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 3 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 4 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB |
| 5 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB |
| 6 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB |
| 7 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 8 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 9 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 10 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB |
| 11 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB |
| 12 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB |
| 13 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 14 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 15 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 16 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB |
| 17 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB |
| 18 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB |
| 19 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 20 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 21 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 22 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB |
| 23 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB |
| 24 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB |

Note: The above information was declared by manufacturer.

## 1.2 Applicable Standards

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

- 47 CFR FCC Part 15.247
- ANSI C63.10-2013

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

- FCC KDB 558074 D01 v05r02
- FCC KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Testing Location Information | |
|---|---|
| Test Lab.：Sporton International Inc. Hsinchu Laboratory | |
| Hsinchu (TAF: 3787) | ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)<br>TEL: 886-3-656-9065 FAX: 886-3-656-9085<br>Test site Designation No. TW3787 with FCC.<br>Conformity Assessment Body Identifier (CABID) TW3787 with ISED. |

| Test Condition | Test Site No. | Test Engineer | Test Environment (°C / %) | Test Date |
|---|---|---|---|---|
| RF Conducted | TH01-CB | Jay Lo | 23.7~24.3 / 62~64 | Apr. 09, 2024~ Jun. 06, 2024 |
| Radiated below 1GHz | 03CH04-CB | Mark Hsu | 22.7-23.8 / 56-59 | Jun. 06, 2024~ Jun. 07, 2024 |
| Radiated above 1GHz | 03CH06-CB | Mark Hsu | 21.9-22.4 / 55-58 | Apr. 08, 2024~ Jun. 24, 2024 |
| AC Conduction | CO02-CB | Gray Lee | 20~21 / 61~62 | Jun. 17, 2024 |

## 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)

**Before test date: May 28, 2024**

| Test Items | Uncertainty | Remark |
|---|---|---|
| Radiated Emission (1GHz ~ 18GHz) | 4.1 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 4.2 dB | Confidence levels of 95% |
| Conducted Emission | 3.1 dB | Confidence levels of 95% |
| Output Power Measurement | 0.8 dB | Confidence levels of 95% |
| Power Density Measurement | 3.1 dB | Confidence levels of 95% |
| Bandwidth Measurement | 2.2% | Confidence levels of 95% |

**After test date: May 27, 2024**

| Test Items | Uncertainty | Remark |
|---|---|---|
| Conducted Emission (150kHz ~ 30MHz) | 3.4 dB | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz) | 4.1 dB | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 4.2 dB | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz) | 4.2 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 4.0 dB | Confidence levels of 95% |
| Conducted Emission | 3.1 dB | Confidence levels of 95% |
| Output Power Measurement | 0.8 dB | Confidence levels of 95% |
| Power Density Measurement | 3.1 dB | Confidence levels of 95% |
| Bandwidth Measurement | 2.1 % | Confidence levels of 95% |

# 2 Test Configuration of EUT

## 2.1 Test Channel Mode

| Mode |
|---|
| BT-LE(1Mbps) |
| 2402MHz |
| 2440MHz |
| 2478MHz |
| 2480MHz |
| BT-LE(2Mbps) |
| 2402MHz |
| 2440MHz |
| 2478MHz |
| 2480MHz |

## 2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | AC power-line conducted emissions |
| **Condition** | AC power-line conducted measurement for line and neutral<br>Test Voltage: 120Vac / 60Hz |
| **Operating Mode** | CTX |
| 1 | EUT + Radio 1 WLAN 2.4GHz + PoE 1 |
| 2 | EUT + Radio 1 WLAN 2.4GHz + PoE 2 |
| 3 | EUT + Radio 1 WLAN 2.4GHz + PoE 3 |
| 4 | EUT + Radio 1 WLAN 2.4GHz + PoE 4 |
| 5 | EUT + Radio 1 WLAN 2.4GHz + PoE 5 |
| 6 | EUT + Radio 1 WLAN 2.4GHz + PoE 6 |
| 7 | EUT + Radio 1 WLAN 2.4GHz + PoE 7 |
| 8 | EUT + Radio 1 WLAN 2.4GHz + PoE 8 |
| Mode 4 has been evaluated to be the worst case among Mode 1~8, thus measurement for Mode 9~16 will follow this same test mode. | |
| 9 | EUT + Radio 1 WLAN 5GHz (Low Band) + PoE 4 |
| 10 | EUT + Radio 2 WLAN 5GHz + PoE 4 |
| 11 | EUT + Radio 3 WLAN 6GHz + PoE 4 |
| 12 | EUT + Radio 4(Pine Scanning radio) WLAN 2.4GHz + PoE 4 |
| 13 | EUT + Radio 4(Pine Scanning radio) WLAN 5GHz + PoE 4 |
| 14 | EUT + Radio 4(Pine Scanning radio) WLAN 6GHz + PoE 4 |
| 15 | EUT + Radio 5 Bluetooth + PoE 4 |
| 16 | EUT + Radio 5 Zigbee + PoE 4 |
| For operating mode 10 is the worst case and it was record in this test report. | |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | DTS Bandwidth<br>Maximum Conducted Output Power<br>Power Spectral Density<br>Emissions in Non-restricted Frequency Bands |
| **Test Condition** | Conducted measurement at transmit chains |
| **Test Mode** | EUT + Radio 5 |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Emissions in Restricted Frequency Bands |
| **Test Condition** | 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. |
| **Operating Mode < 1GHz** | CTX |
| After evaluating, the worst case was found at as below for Emissions in Restricted Frequency Bands above 1GHz. Thus, the measurement will follow this same test configuration. | |
| 1 | EUT in Y axis + Radio 1 WLAN 2.4GHz + PoE 1 |
| 2 | EUT in Y axis + Radio 1 WLAN 2.4GHz + PoE 2 |
| 3 | EUT in Y axis + Radio 1 WLAN 2.4GHz + PoE 3 |
| 4 | EUT in Y axis + Radio 1 WLAN 2.4GHz + PoE 4 |
| 5 | EUT in Y axis + Radio 1 WLAN 2.4GHz + PoE 5 |
| 6 | EUT in Y axis + Radio 1 WLAN 2.4GHz + PoE 6 |
| 7 | EUT in Y axis + Radio 1 WLAN 2.4GHz + PoE 7 |
| 8 | EUT in Y axis + Radio 1 WLAN 2.4GHz + PoE 8 |
| Mode 1 has been evaluated to be the worst case among Mode 1~8, thus measurement for Mode 9~16 will follow this same test mode. | |
| 9 | EUT in Y axis + Radio 1 WLAN 5GHz (Low Band) + PoE 1 |
| 10 | EUT in Y axis + Radio 2 WLAN 5GHz + PoE 1 |
| 11 | EUT in Y axis + Radio 3 WLAN 6GHz + PoE 1 |
| 12 | EUT in Y axis + Radio 4(Pine Scanning radio) WLAN 2.4GHz + PoE 1 |
| 13 | EUT in Y axis + Radio 4(Pine Scanning radio) WLAN 5GHz + PoE 1 |
| 14 | EUT in Y axis + Radio 4(Pine Scanning radio) WLAN 6GHz + PoE 1 |
| 15 | EUT in X axis + Radio 5 Bluetooth + PoE 1 |
| 16 | EUT in X axis + Radio 5 Zigbee + PoE 1 |
| For operating mode 1 is the worst case and it was record in this test report. | |
| **Operating Mode > 1GHz** | CTX |
| After evaluating, the worst case was found at X axis. So the measurement will follow this same test configuration. | |
| 1 | EUT in X axis + Radio 5 |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation |
| **Operating Mode** | |
| 1 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 2 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 3 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 4 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB |
| 5 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB |
| 6 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB |
| 7 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 8 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 9 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 10 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB |
| 11 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB |
| 12 | Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB |
| 13 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 14 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 15 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 16 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB |
| 17 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB |
| 18 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB |
| 19 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB |

| | |
|---|---|
| 20 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 21 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB |
| 22 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB |
| 23 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB |
| 24 | Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB |
| Refer to Sporton Test Report No.: FA430535AA for Co-location RF Exposure Evaluation. | |

Note 1: The PoE is for measurement only, would not be marketed.

Their information as below:

| Power | Brand | Model |
|---|---|---|
| PoE 1 | Microsemi | PD-9001GR/AT/AC |
| PoE 2 | PHIHONG | POE29U-1AT(PL) |
| PoE 3 | DELTA | ADH-65AR B |
| PoE 4 | PHIHONG | POEA33U-1ATE |
| PoE 5 | PHIHONG | POE60U-1BT-X |
| PoE 6 | PHIHONG | POE60U-BTA(X66M-R) |
| PoE 7 | PHIHONG | POE60U-BTA(X664-R) |
| PoE 8 | DELTA | ADH-65AR P |

## 2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

## 2.4 Accessories

Bracket 1*1
Bracket 2*1

## 2.5 Support Equipment

**For AC Conduction:**

| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| A | PoE 4 | PHIHONG | POEA33U-1ATE | N/A |
| B | PC | ASUS | S300TA | N/A |
| C | Flash disk3.0 | Transcend | JetFlash-703 | N/A |

**For Radiated:**

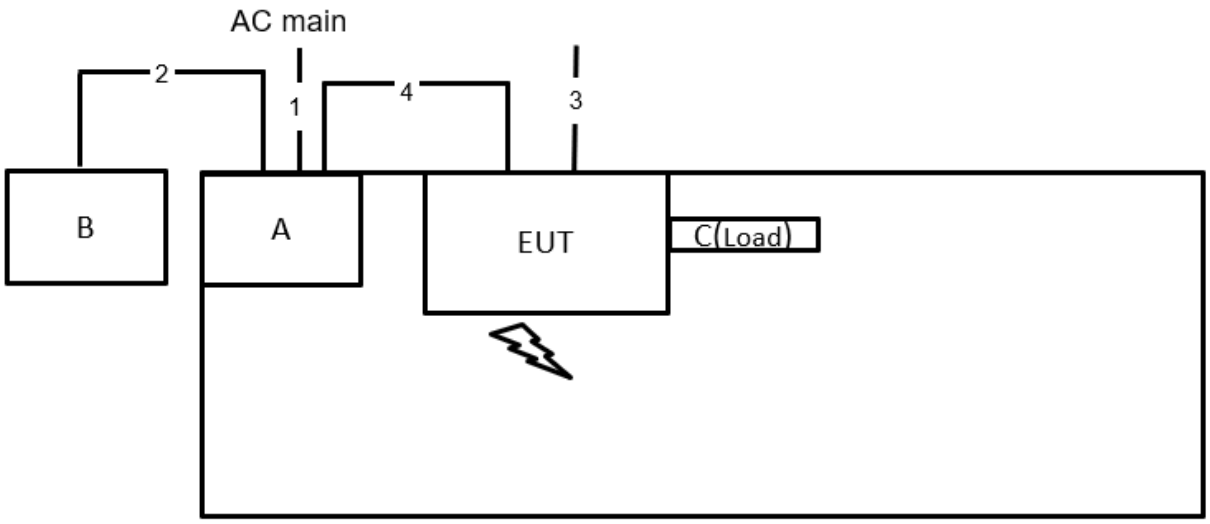
| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| A | Notebook | DELL | E4300 | N/A |
| B | PoE 1 | Microsemi | PD-9001GR/AT/AC | N/A |

**For RF Conducted:**

| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| A | Notebook | DELL | E4300 | N/A |
| B | PoE 5 | PHIHONG | POE60U-1BT-X | N/A |

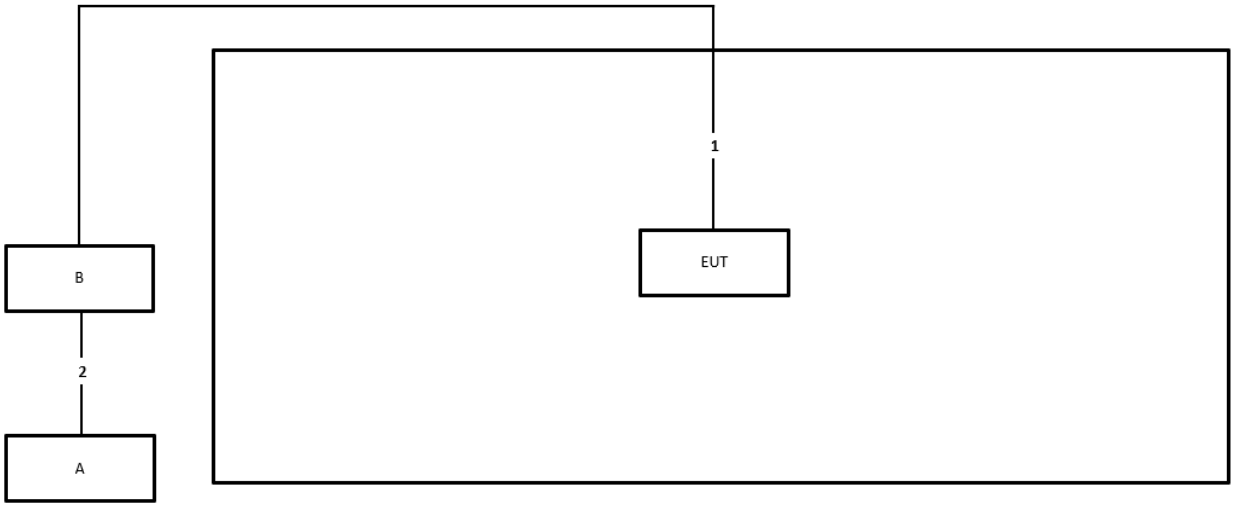
## 2.6 Test Setup Diagram

**Test Setup Diagram – AC Line Conducted Emission Test**



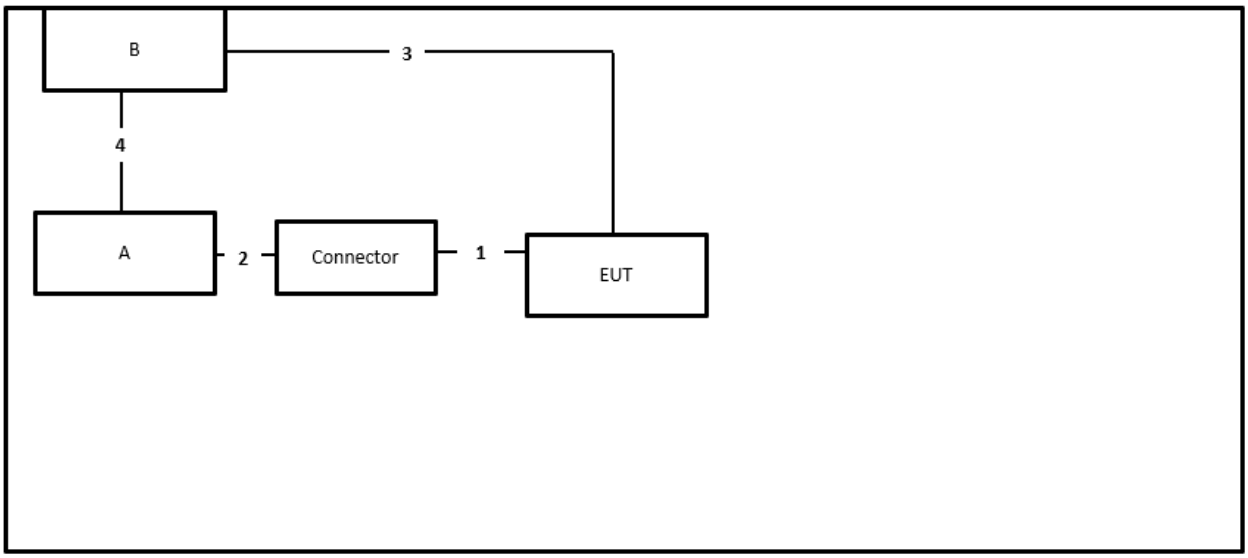

| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | Power cable | No | 0.8m |
| 2 | Cat6 RJ-45 Cable | No | 10m |
| 3 | Console cable | No | 1.5m |
| 4 | Cat6 RJ-45 Cable | No | 1.5m |

**Test Setup Diagram - Radiated Test < 1GHz**




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | RJ-45 cable | No | 10m |
| 2 | RJ-45 cable | No | 1.5m |

**Test Setup Diagram - Radiated Test > 1GHz**




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | Console cable (RS-232 to RJ-45) | No | 1m |
| 2 | Console cable (RS-232 to USB) | No | 1m |
| 3 | RJ-45 cable | No | 1m |
| 4 | RJ-45 cable | No | 1m |

# 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

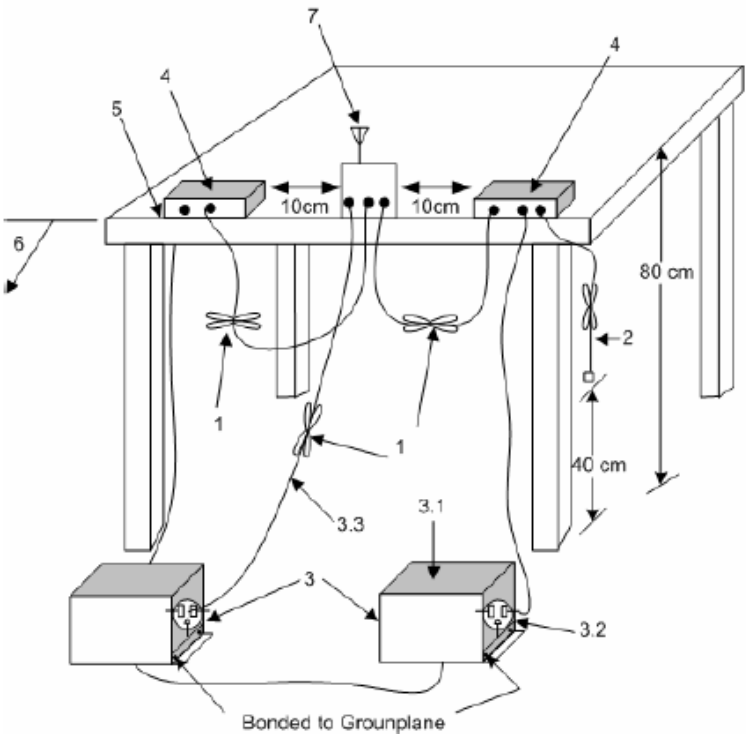
Refer a test equipment and calibration data table in this test report.

### 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 Test Setup

**AC Power-line Conducted Emissions**




1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

### 1.1.1. Measurement Results Calculation

The measured Level is calculated using:

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

b. Margin = -Limit + Level

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

Refer as Appendix A

# 3.2 DTS Bandwidth

## 3.2.1 6dB Bandwidth Limit

| 6dB Bandwidth Limit |
|---|
| **Systems using digital modulation techniques:** |
| ▪ 6 dB bandwidth ≥ 500 kHz. |

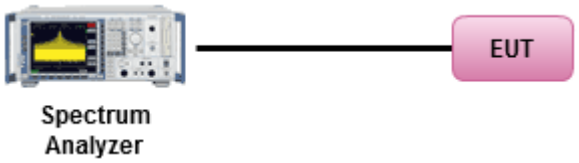
## 3.2.2 Measuring Instruments

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

## 3.2.3 Test Procedures

| Test Method | |
|---|---|
| ▪ For the emission bandwidth shall be measured using one of the options below: | |
| | ☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement. |
| | ☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement. |
| | ☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing. |

## 3.2.4 Test Setup

| Emission Bandwidth |
|---|
|   |

## 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

# 3.3 Maximum Conducted Output Power

## 3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit | | |
|---|---|---|
| | ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W) | |
| | ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)$ dBm | |
| | ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm | |
| | ▪ Smart antenna system (SAS): | |
| | | - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm |
| | | - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm |
| | | - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3 + 8$dB dBm |
| **$P_{Out}$** = maximum peak conducted output power or maximum conducted output power in dBm,<br>**$G_{TX}$** = the maximum transmitting antenna directional gain in dBi. | | |

## 3.3.2 Measuring Instruments

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

### 3.3.3 Test Procedures

| Test Method | |
|---|---|
| ▪ Maximum Peak Conducted Output Power | |
| | ☐ Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method). |
| | ☒ Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter). |
| ▪ Maximum Conducted Output Power | |
| | [duty cycle ≥ 98% or external video / power trigger] |
| | ☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1. |
| | ☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative) |
| | duty cycle < 98% and average over on/off periods with duty factor |
| | ☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2. |
| | ☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative) |
| | ☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3 |
| | ☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative) |
| | Measurement using a power meter (PM) |
| | ☐ Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter). |
| | ☒ Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter). |
| ▪ For conducted measurement. | |
| | ▪ If the EUT supports multiple transmit chains using options given below:<br>Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. |
| | ▪ If multiple transmit chains, EIRP calculation could be following as methods:<br>$P_{total} = P_1 + P_2 + \ldots + P_n$<br>(calculated in linear unit [mW] and transfer to log unit [dBm])<br>$EIRP_{total} = P_{total} + DG$ |

### 3.3.4 Test Setup

| Maximum Conducted Output Power (Power Meter) |
| --- |
|  |



### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

# 3.4 Power Spectral Density

## 3.4.1 Power Spectral Density Limit

| Power Spectral Density Limit |
|---|
| ▪ Power Spectral Density (PSD)≤8 dBm/3kHz |

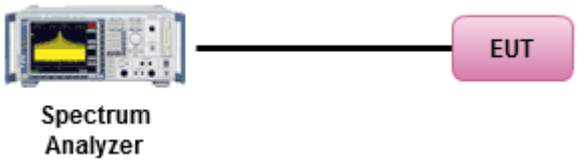
## 3.4.2 Measuring Instruments

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

## 3.4.3 Test Procedures

| Test Method | | | |
|---|---|---|---|
| ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option). | | | |
| | ☒ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD. | | |
| | [duty cycle ≥ 98% or external video / power trigger] | | |
| ▪ For conducted measurement. | | | |
| | ▪ If The EUT supports multiple transmit chains using options given below: | | |
| | | ☐ | Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |
| | | ☐ | Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, |
| | | ☐ | Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit. |

### 3.4.4 Test Setup

| Power Spectral Density |
| --- |
|  |

### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

# 3.5 Emissions in Non-restricted Frequency Bands

## 3.5.1 Emissions in Non-restricted Frequency Bands Limit

| Un-restricted Band Emissions Limit | |
|---|---|
| **RF output power procedure** | **Limit (dBc)** |
| Peak output power procedure | 20 |
| Average output power procedure | 30 |

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.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

## 3.5.2 Measuring Instruments

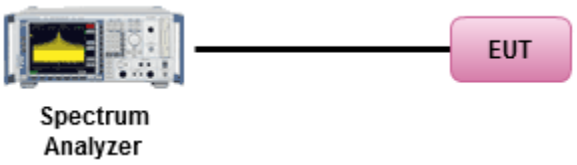
Refer a test equipment and calibration data table in this test report.

## 3.5.3 Test Procedures

| Test Method |
|---|
| ▪ Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands. |

## 3.5.4 Test Setup

**Emissions in Non-restricted Frequency Bands**




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

Refer as Appendix E

# 3.6 Emissions in Restricted Frequency Bands

## 3.6.1 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 below30 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.

## 3.6.2 Measuring Instruments

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

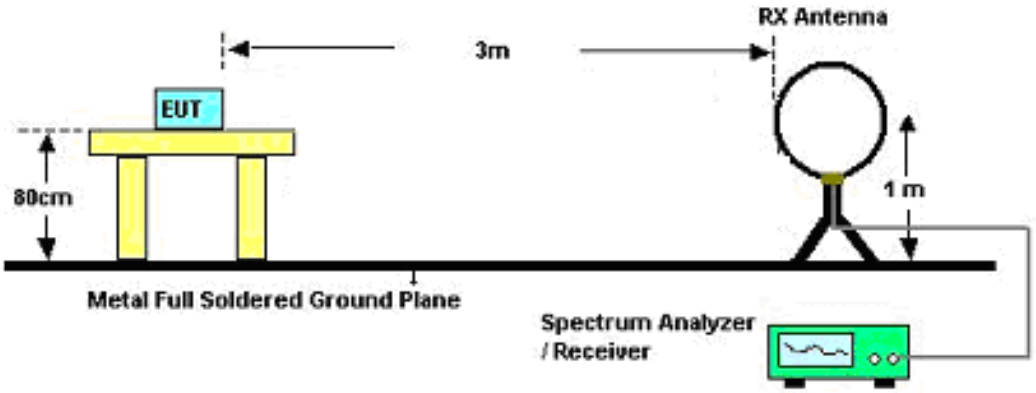
### 3.6.3 Test Procedures

| Test Method |
|---|
| ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. |
| ▪ 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. |
| ▪ For the transmitter unwanted emissions shall be measured using following options below: |
| ▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands. |
| ☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%). |
| ☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor). |
| ☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T). |
| ☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time. |
| ☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions. |
| ☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit. |
| ▪ For the transmitter band-edge emissions shall be measured using following options below: |
| ▪ Refer as FCC KDB 558074 clause 8.7 & c63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below. |
| ▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements. |
| ▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz). |
| ▪ For conducted unwanted emissions into restricted bands (absolute emission limits).<br>Devices with multiple transmit chains using options given below:<br>(1) Measure and sum the spectra across the outputs or<br>(2) Measure and add 10 log(N) dB |
| ▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred. |

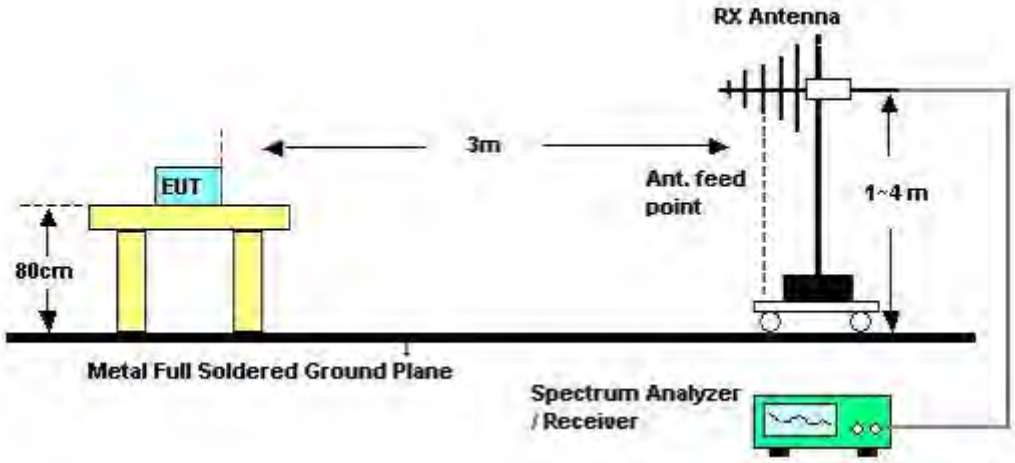
### 3.6.4 Test Setup

**Emissions in Restricted Frequency Bands**

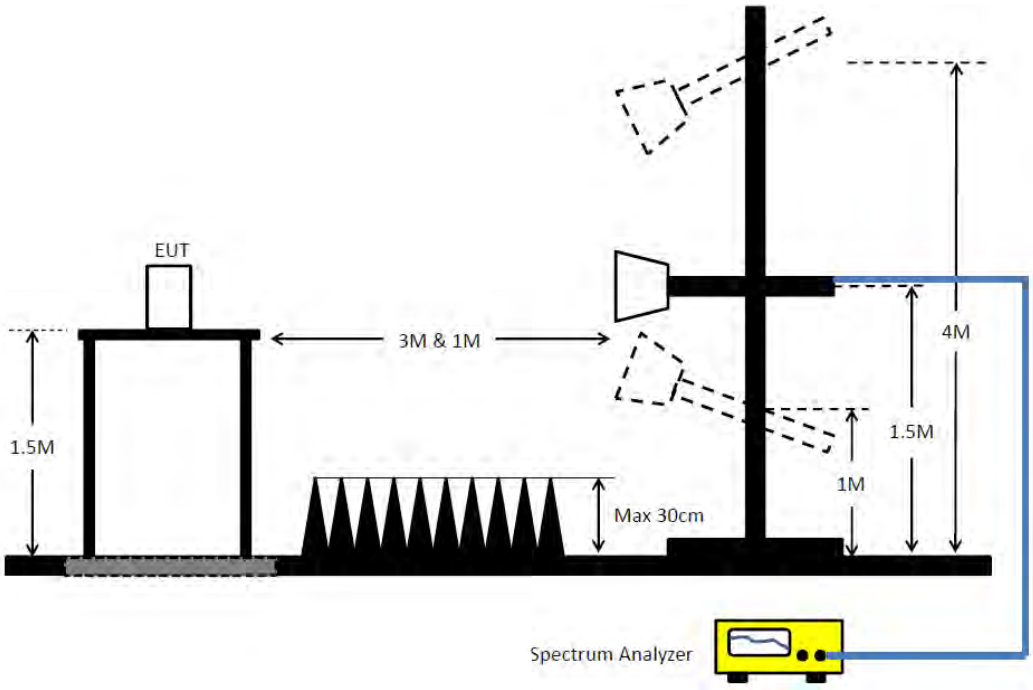
**9kHz ~30MHz**




**30MHz~1GHz**



**Above 1GHz**




### 3.6.5 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

### 3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

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

Refer as Appendix F

# 4 Test Equipment and Calibration Data

| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---|---|---|---|---|---|---|---|
| LISN | Schwarzbeck | NSLK 8127 | 8127650 | 9kHz ~ 30MHz | Apr. 15, 2024 | Apr. 14, 2025 | Conduction (CO02-CB) |
| LISN | Schwarzbeck | NSLK 8127 | 8127478 | 9kHz ~ 30MHz | Dec. 29, 2023 | Dec. 28, 2024 | Conduction (CO02-CB) |
| EMI Receiver | Agilent | N9038A | MY52260140 | 9kHz ~ 8.4GHz | May 15, 2024 | May 14, 2025 | Conduction (CO02-CB) |
| COND Cable | Woken | Cable | 2 | 0.15MHz ~ 30MHz | Oct. 17, 2023 | Oct. 16, 2024 | Conduction (CO02-CB) |
| Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Conduction (CO02-CB) |
| Pulse Limiter | Schwarzbeck | VTSD 9561F-N | 00378 | 9kHz ~ 30MHz | Oct. 17, 2023 | Oct. 16, 2024 | Conduction (CO02-CB) |
| Spectrum analyzer | R&S | FSV40 | 100979 | 9kHz~40GHz | May 29, 2023 | May 28, 2024 | Conducted (TH01-CB) |
| Spectrum analyzer | R&S | FSV40 | 100979 | 9kHz~40GHz | May 27, 2024 | May 26, 2025 | Conducted (TH01-CB) |
| Switch | SPTCB | SP-SWI | SWI-01 | 1~26.5 GHz | Oct. 03, 2023 | Oct. 02, 2024 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-06 | 1 GHz – 18 GHz | Oct. 02, 2023 | Oct. 01, 2024 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-07 | 1 GHz – 18 GHz | Oct. 02, 2023 | Oct. 01, 2024 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-08 | 1 GHz – 18 GHz | Oct. 02, 2023 | Oct. 01, 2024 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-09 | 1 GHz – 18 GHz | Oct. 02, 2023 | Oct. 01, 2024 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-10 | 1 GHz – 18 GHz | Oct. 02, 2023 | Oct. 01, 2024 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-30 | 1 GHz – 18 GHz | Oct. 02, 2023 | Oct. 01, 2024 | Conducted (TH01-CB) |
| Power Sensor | Agilent | E9327A | US40442088 | 50MHz~18GHz | Mar. 01, 2024 | Feb. 28, 2025 | Conducted (TH01-CB) |
| Power Meter | Agilent | E4416A | GB41291199 | 50MHz~18GHz | Mar. 04, 2024 | Mar. 03, 2025 | Conducted (TH01-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Conducted (TH01-CB) |
| Loop Antenna | Teseq | HLA 6121 | 65417 | 9kHz - 30 MHz | Oct. 13, 2023 | Oct. 12, 2024 | Radiation (03CH04-CB) |
| 3m Semi Anechoic Chamber NSA | TDK | SAC-3M | 03CH04-CB | 30 MHz ~ 1 GHz | Aug. 01, 2023 | Jul. 31, 2024 | Radiation (03CH04-CB) |
| BILOG ANTENNA with 6 dB attenuator | Schaffner & EMCI | CBL6112B & N-6-06 | 22021&AT-N0607 | 30MHz ~ 1GHz | Oct. 07, 2023 | Oct. 06, 2024 | Radiation (03CH04-CB) |
| Pre-Amplifier | EMCI | EMC330N | 980391 | 20MHz ~ 3GHz | May 22, 2024 | May 21, 2025 | Radiation (03CH04-CB) |

| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---|---|---|---|---|---|---|---|
| Spectrum Analyzer | R&S | FSP40 | 100142 | 9kHz~40GHz | Mar. 19, 2024 | Mar. 18, 2025 | Radiation (03CH04-CB |
| EMI Test Receiver | R&S | ESCS | 826547/017 | 9kHz ~ 2.75GHz | Jun. 13, 2023 | Jun. 12, 2024 | Radiation (03CH04-CB) |
| RF Cable-low | Woken | RG402 | Low Cable-03+67 | 30MHz – 1GHz | Oct. 02, 2023 | Oct. 01, 2024 | Radiation (03CH04-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Radiation (03CH04-CB) |
| 3m Semi Anechoic Chamber VSWR | TDK | SAC-3M | 03CH06-CB | 1GHz ~18GHz 3m | Oct. 02, 2023 | Oct. 01, 2024 | Radiation (03CH06-CB) |
| Horn Antenna | SCHWARZBECK | BBHA9120D | BBHA 9120D-1292 | 1GHz~18GHz | Jul. 31, 2023 | Jul. 30, 2024 | Radiation (03CH06-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Sep. 04, 2023 | Sep. 03, 2024 | Radiation (03CH06-CB) |
| Pre-Amplifier | Agilent | 83017A | MY53270064 | 0.5GHz ~ 26.5GHz | Aug. 01, 2023 | Jul. 31, 2024 | Radiation (03CH06-CB) |
| Pre-Amplifier | SGH | SGH184 | 20221107-3 | 18GHz ~ 40GHz | Nov. 24, 2023 | Nov. 23, 2024 | Radiation (03CH06-CB) |
| Signal Analyzer | R&S | FSV40 | 101903 | 9kHz ~ 40GHz | May 29, 2023 | May 28, 2024 | Radiation (03CH06-CB) |
| Signal Analyzer | R&S | FSV40 | 101904 | 9kHz ~ 40GHz | Apr. 26, 2024 | Apr. 25, 2025 | Radiation (03CH06-CB) |
| RF Cable-high | Woken | RG402 | High Cable-05+68 | 1GHz~18GHz | Oct. 02, 2023 | Oct. 01, 2024 | Radiation (03CH06-CB) |
| High Cable | Woken | WCA0929M | 40G#5+6 | 1GHz ~ 40 GHz | Jan. 11, 2024 | Jan. 10, 2025 | Radiation (03CH06-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Radiation (03CH06-CB) |

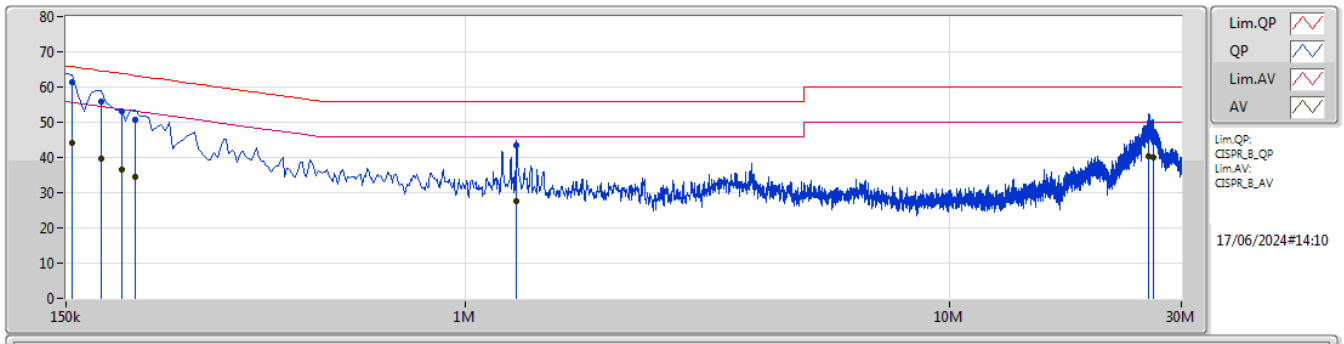
Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.

Summary

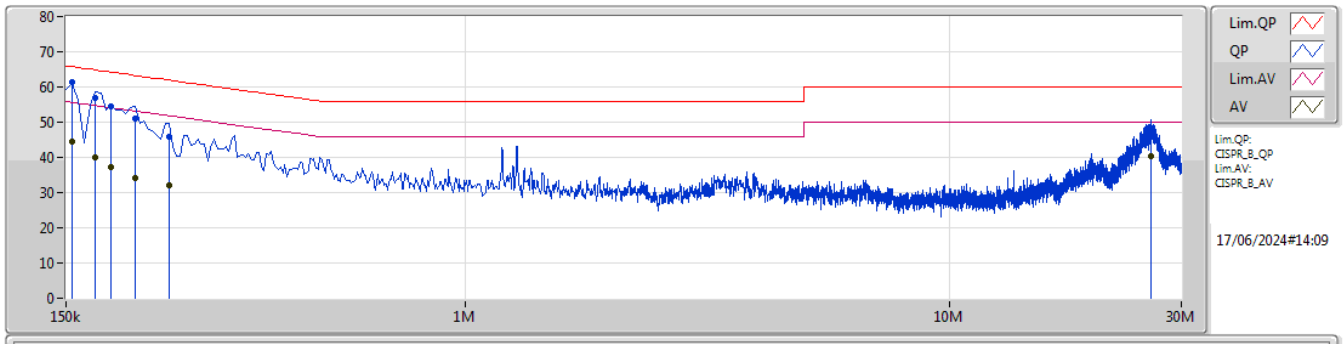
| Mode | Result | Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Condition |
|---|---|---|---|---|---|---|---|
| Mode 10 | Pass | QP | 154.5k | 61.51 | 65.75 | -4.24 | Neutral |

**Mode 10**




| Type | Freq | Level | Limit | Margin | Factor | Condition | Comment | Raw | LISN | CL | AT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV) | (dBuV) | (dB) | (dB) | | | (dBuV) | (dB) | (dB) | (dB) |
| QP | 154.5k | 61.23 | 65.75 | -4.52 | 10.09 | Line | "Worst" | 51.14 | 0.05 | 0.03 | 10.01 |
| AV | 154.5k | 44.26 | 55.75 | -11.49 | 10.09 | Line | - | 34.17 | 0.05 | 0.03 | 10.01 |
| QP | 177k | 55.83 | 64.62 | -8.79 | 10.08 | Line | - | 45.75 | 0.05 | 0.03 | 10.00 |
| AV | 177k | 39.51 | 54.62 | -15.11 | 10.08 | Line | - | 29.43 | 0.05 | 0.03 | 10.00 |
| QP | 195k | 53.05 | 63.82 | -10.77 | 10.07 | Line | - | 42.98 | 0.05 | 0.03 | 9.99 |
| AV | 195k | 36.58 | 53.82 | -17.24 | 10.07 | Line | - | 26.51 | 0.05 | 0.03 | 9.99 |
| QP | 208.5k | 50.75 | 63.27 | -12.52 | 10.07 | Line | - | 40.68 | 0.05 | 0.03 | 9.99 |
| AV | 208.5k | 34.34 | 53.27 | -18.93 | 10.07 | Line | - | 24.27 | 0.05 | 0.03 | 9.99 |
| QP | 1.275M | 43.31 | 56.00 | -12.69 | 10.11 | Line | - | 33.20 | 0.08 | 0.04 | 9.99 |
| AV | 1.275M | 27.49 | 46.00 | -18.51 | 10.11 | Line | - | 17.38 | 0.08 | 0.04 | 9.99 |
| QP | 25.674M | 46.79 | 60.00 | -13.21 | 10.61 | Line | - | 36.18 | 0.52 | 0.23 | 9.86 |
| AV | 25.674M | 40.44 | 50.00 | -9.56 | 10.61 | Line | - | 29.83 | 0.52 | 0.23 | 9.86 |
| QP | 26.309M | 46.90 | 60.00 | -13.10 | 10.63 | Line | - | 36.27 | 0.53 | 0.24 | 9.86 |
| AV | 26.309M | 40.16 | 50.00 | -9.84 | 10.63 | Line | - | 29.53 | 0.53 | 0.24 | 9.86 |

**Mode 10**




| Type | Freq | Level | Limit | Margin | Factor | Condition | Comment | Raw | LISN | CL | AT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV) | (dBuV) | (dB) | (dB) | | | (dBuV) | (dB) | (dB) | (dB) |
| QP | 154.5k | 61.51 | 65.75 | -4.24 | 10.09 | Neutral | "Worst" | 51.42 | 0.05 | 0.03 | 10.01 |
| AV | 154.5k | 44.52 | 55.75 | -11.23 | 10.09 | Neutral | - | 34.43 | 0.05 | 0.03 | 10.01 |
| QP | 172.5k | 57.06 | 64.83 | -7.77 | 10.08 | Neutral | - | 46.98 | 0.05 | 0.03 | 10.00 |
| AV | 172.5k | 40.05 | 54.83 | -14.78 | 10.08 | Neutral | - | 29.97 | 0.05 | 0.03 | 10.00 |
| QP | 186k | 54.64 | 64.20 | -9.56 | 10.08 | Neutral | - | 44.56 | 0.05 | 0.03 | 10.00 |
| AV | 186k | 37.24 | 54.20 | -16.96 | 10.08 | Neutral | - | 27.16 | 0.05 | 0.03 | 10.00 |
| QP | 208.5k | 50.87 | 63.27 | -12.40 | 10.07 | Neutral | - | 40.80 | 0.05 | 0.03 | 9.99 |
| AV | 208.5k | 34.31 | 53.27 | -18.96 | 10.07 | Neutral | - | 24.24 | 0.05 | 0.03 | 9.99 |
| QP | 244.5k | 46.01 | 61.95 | -15.94 | 10.07 | Neutral | - | 35.94 | 0.05 | 0.03 | 9.99 |
| AV | 244.5k | 32.11 | 51.95 | -19.84 | 10.07 | Neutral | - | 22.04 | 0.05 | 0.03 | 9.99 |
| QP | 25.976M | 46.80 | 60.00 | -13.20 | 10.41 | Neutral | - | 36.39 | 0.31 | 0.24 | 9.86 |
| AV | 25.976M | 40.42 | 50.00 | -9.58 | 10.41 | Neutral | - | 30.01 | 0.31 | 0.24 | 9.86 |

Summary

| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|---|---|---|---|---|---|
| 2.4-2.4835GHz | - | - | - | - | - |
| BT-LE(1Mbps) | 685k | 1.036M | 1M04F1D | 678.75k | 1.033M |
| BT-LE(2Mbps) | 587.5k | 2.08M | 2M08F1D | 565k | 2.065M |

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

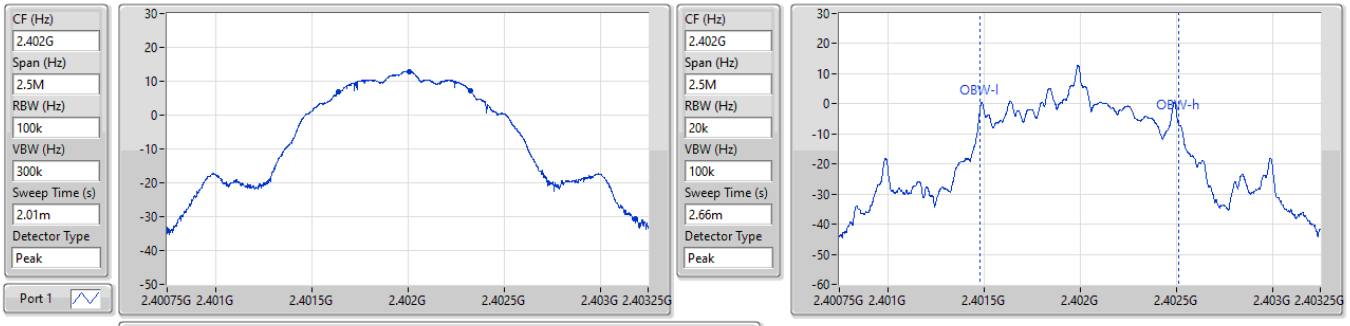
| Mode | Result | Limit (Hz) | Port 1-N dB (Hz) | Port 1-OBW (Hz) |
|---|---|---|---|---|
| BT-LE(1Mbps) | - | - | - | - |
| 2402MHz | Pass | 500k | 685k | 1.036M |
| 2440MHz | Pass | 500k | 683.75k | 1.033M |
| 2480MHz | Pass | 500k | 678.75k | 1.034M |
| BT-LE(2Mbps) | - | - | - | - |
| 2402MHz | Pass | 500k | 587.5k | 2.065M |
| 2440MHz | Pass | 500k | 582.5k | 2.074M |
| 2480MHz | Pass | 500k | 565k | 2.08M |

Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

**2.4-2.4835GHz_BT-LE(1Mbps)** **EBW-DTS**

**2402MHz**

09/04/2024

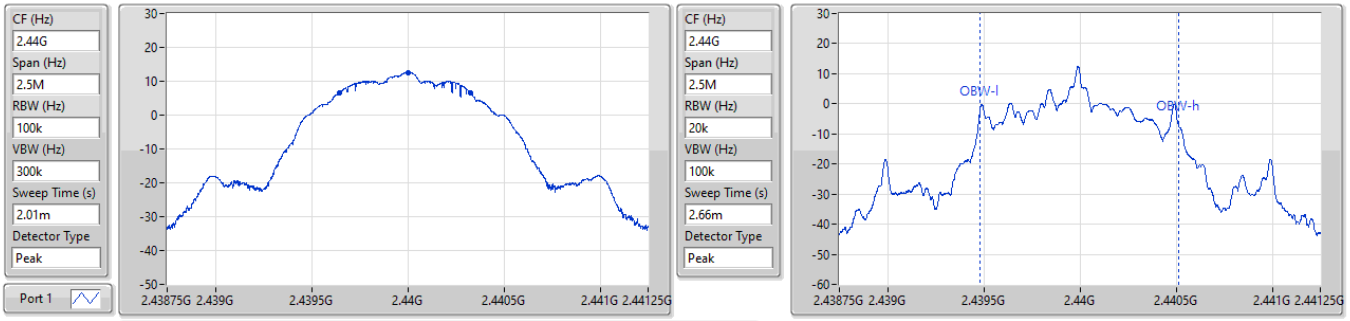



| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 685k | 2.401641G | 2.402326G | 1.036M | 2.40148G | 2.402515G | 500k | 1 |

**2.4-2.4835GHz_BT-LE(1Mbps)** **EBW-DTS**

**2440MHz**

09/04/2024

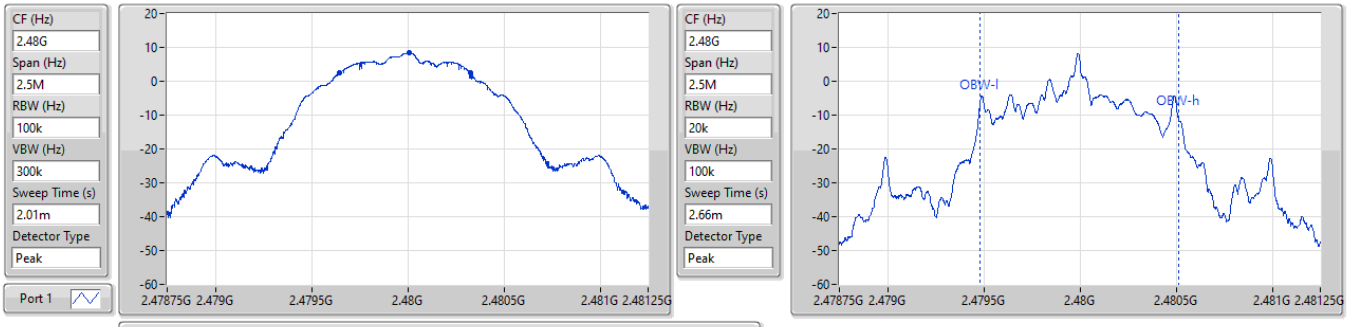



| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 683.75k | 2.439644G | 2.440328G | 1.033M | 2.43948G | 2.440513G | 500k | 1 |

**2.4-2.4835GHz_BT-LE(1Mbps)** **EBW-DTS**

**2480MHz**

09/04/2024

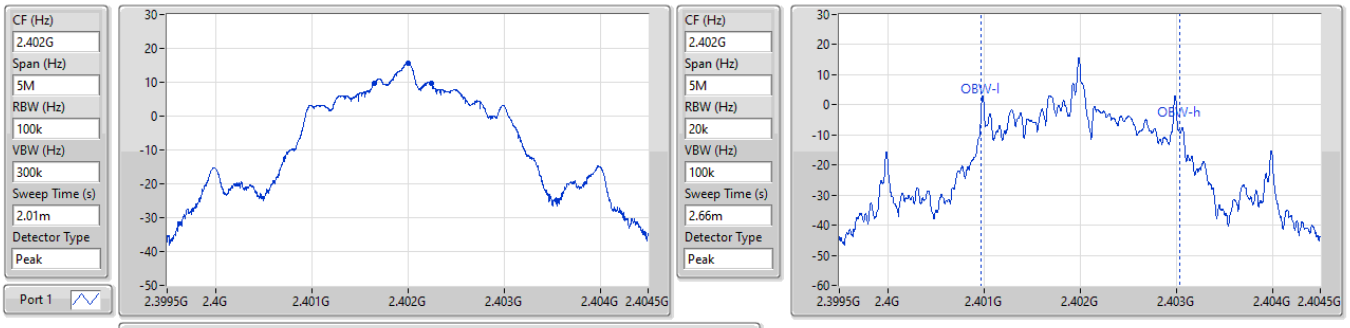



| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 678.75k | 2.479648G | 2.480326G | 1.034M | 2.47948G | 2.480514G | 500k | 1 |

**2.4-2.4835GHz_BT-LE(2Mbps)** **EBW-DTS**

**2402MHz**

09/04/2024

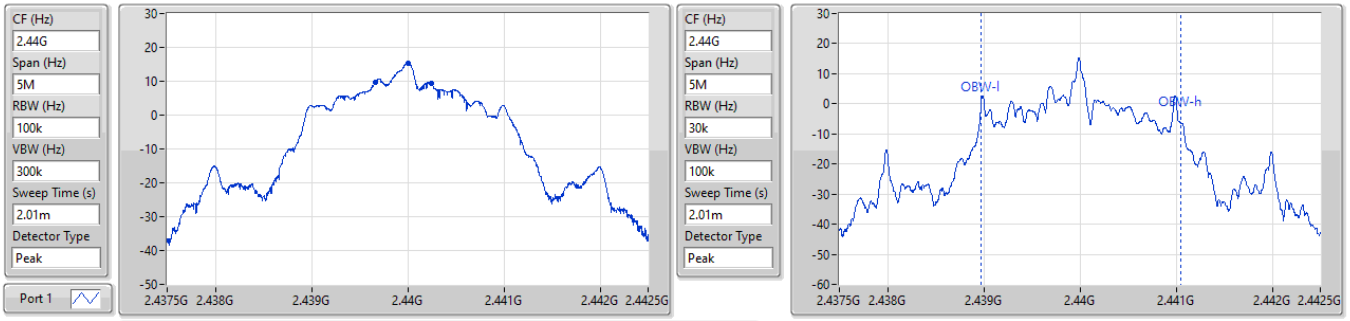



| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 587.5k | 2.401655G | 2.402243G | 2.065M | 2.400976G | 2.403041G | 500k | 1 |

**2.4-2.4835GHz_BT-LE(2Mbps)** **EBW-DTS**

**2440MHz**

09/04/2024

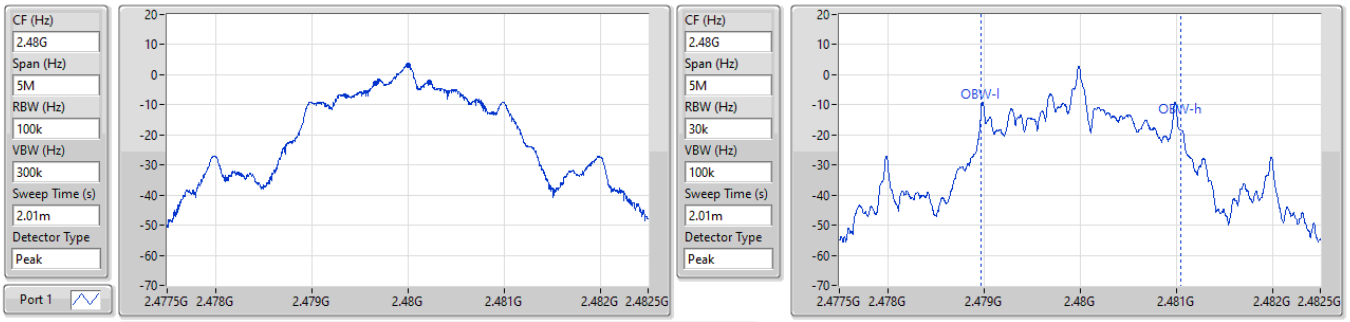



| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 582.5k | 2.43966G | 2.440243G | 2.074M | 2.438971G | 2.441045G | 500k | 1 |

**2.4-2.4835GHz_BT-LE(2Mbps)** **EBW-DTS**

**2480MHz**

09/04/2024




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 565k | 2.479665G | 2.48023G | 2.08M | 2.47897G | 2.48105G | 500k | 1 |

Summary

| Mode | Total Power (dBm) | Total Power (W) |
|---|---|---|
| 2.4-2.4835GHz | - | - |
| BT-LE(1Mbps) | 13.14 | 0.02061 |
| BT-LE(2Mbps) | 15.48 | 0.03532 |

Result

| Mode | Result | DG (dBi) | Total Power (dBm) | Power Limit (dBm) |
|---|---|---|---|---|
| BT-LE(1Mbps) | - | - | - | - |
| 2402MHz | Pass | 3.58 | 13.14 | 30.00 |
| 2440MHz | Pass | 3.58 | 12.84 | 30.00 |
| 2478MHz | Pass | 3.58 | 12.42 | 30.00 |
| 2480MHz | Pass | 3.58 | 8.55 | 30.00 |
| BT-LE(2Mbps) | - | - | - | - |
| 2402MHz | Pass | 3.58 | 15.48 | 30.00 |
| 2440MHz | Pass | 3.58 | 15.45 | 30.00 |
| 2478MHz | Pass | 3.58 | 15.00 | 30.00 |
| 2480MHz | Pass | 3.58 | 2.97 | 30.00 |

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

Summary

| Mode | PD (dBm/RBW) |
|---|---|
| 2.4-2.4835GHz | - |
| BT-LE(1Mbps) | 7.67 |
| BT-LE(2Mbps) | 7.56 |

RBW = 3kHz;

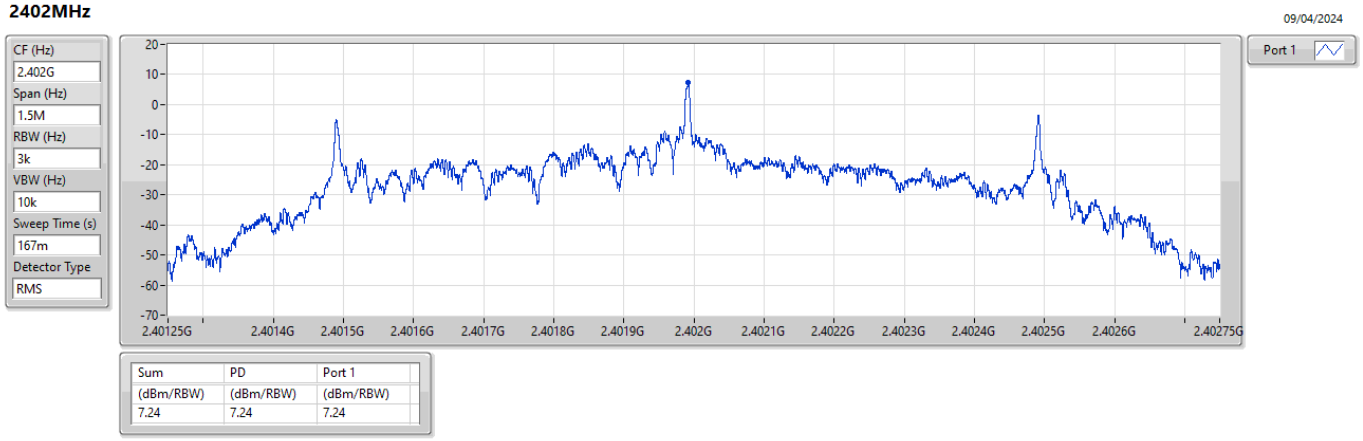
Result

| Mode | Result | DG (dBi) | PD (dBm/RBW) | PD Limit (dBm/RBW) |
|---|---|---|---|---|
| BT-LE(1Mbps) | - | - | - | - |
| 2402MHz | Pass | 3.58 | 7.24 | 8.00 |
| 2440MHz | Pass | 3.58 | 7.52 | 8.00 |
| 2478MHz | Pass | 3.58 | 7.67 | 8.00 |
| 2480MHz | Pass | 3.58 | 7.29 | 8.00 |
| BT-LE(2Mbps) | - | - | - | - |
| 2402MHz | Pass | 3.58 | 7.56 | 8.00 |
| 2440MHz | Pass | 3.58 | 7.54 | 8.00 |
| 2478MHz | Pass | 3.58 | 7.38 | 8.00 |
| 2480MHz | Pass | 3.58 | -1.84 | 8.00 |

DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

**2.4-2.4835GHz_BT-LE(1Mbps)** **PSD**

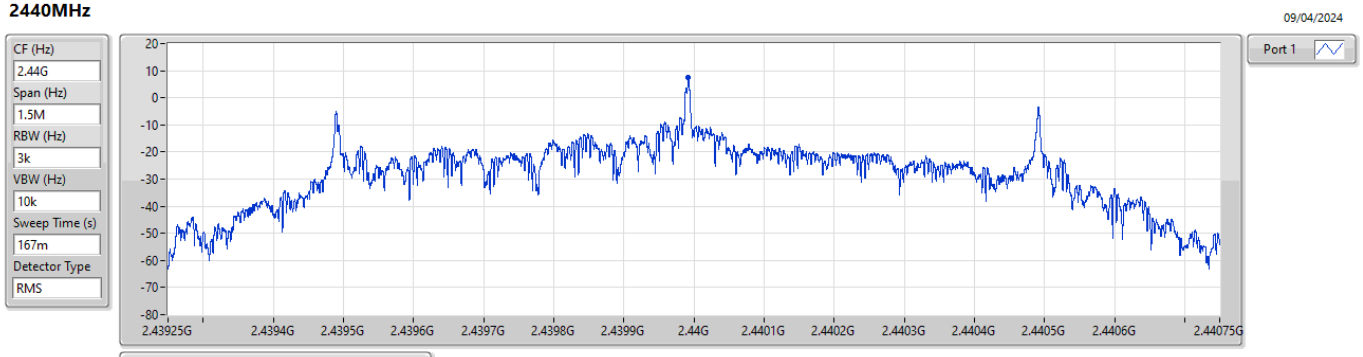
**2402MHz**




| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.24 | 7.24 | 7.24 |

**2.4-2.4835GHz_BT-LE(1Mbps)** **PSD**

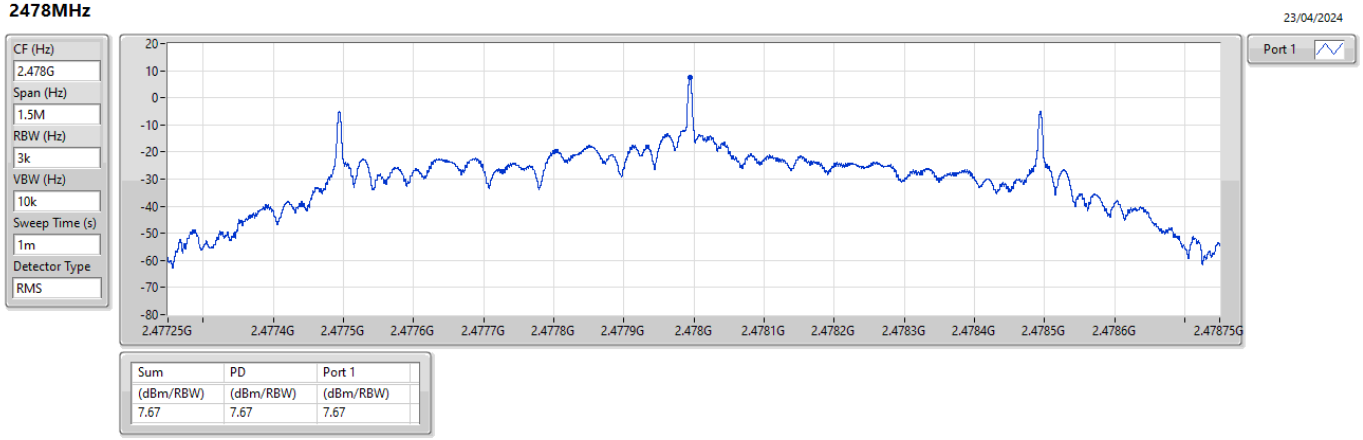
**2440MHz**




| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.52 | 7.52 | 7.52 |

**2.4-2.4835GHz_BT-LE(1Mbps)** **PSD**

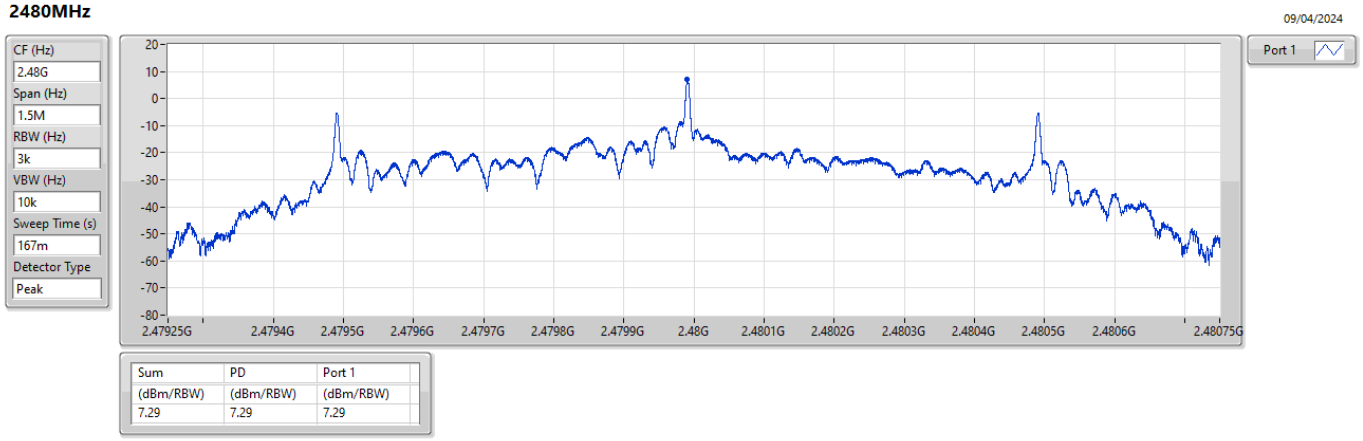
**2478MHz**




| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.67 | 7.67 | 7.67 |

**2.4-2.4835GHz_BT-LE(1Mbps)** **PSD**

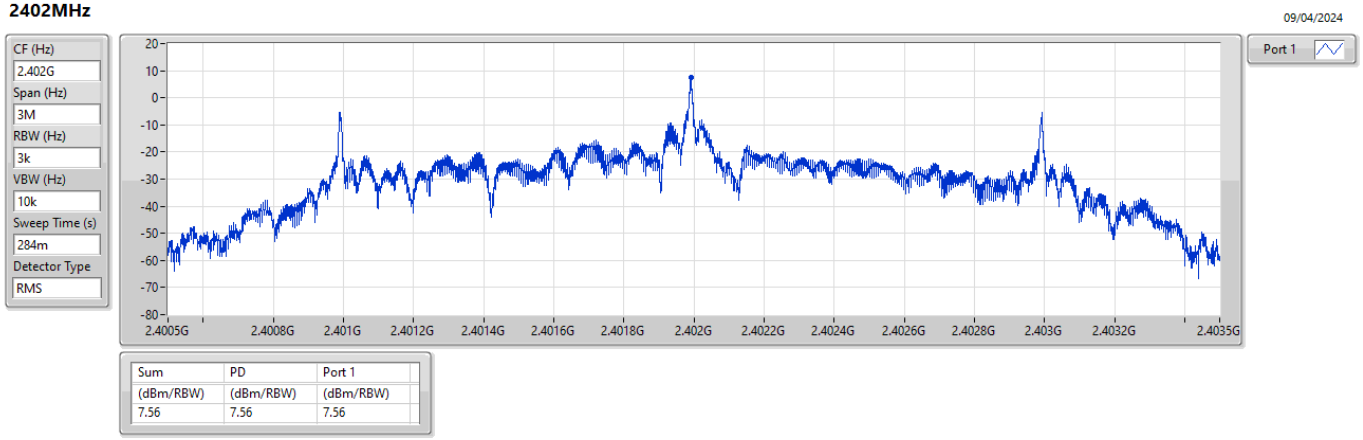
**2480MHz**




| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.29 | 7.29 | 7.29 |

**2.4-2.4835GHz_BT-LE(2Mbps)** **PSD**

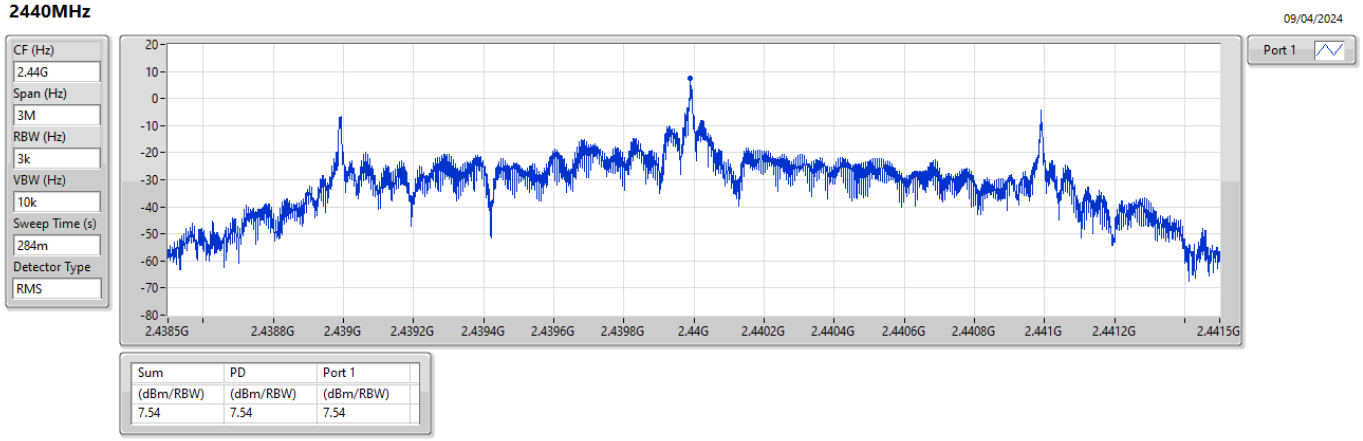
**2402MHz**




| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.56 | 7.56 | 7.56 |

**2.4-2.4835GHz_BT-LE(2Mbps)** **PSD**

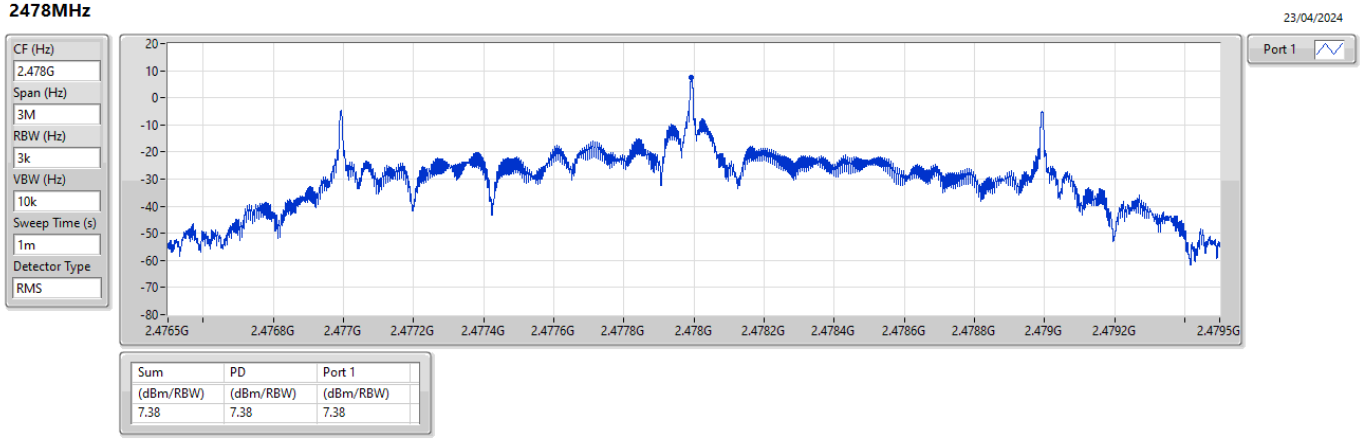
**2440MHz**




| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.54 | 7.54 | 7.54 |

**2.4-2.4835GHz_BT-LE(2Mbps)** **PSD**

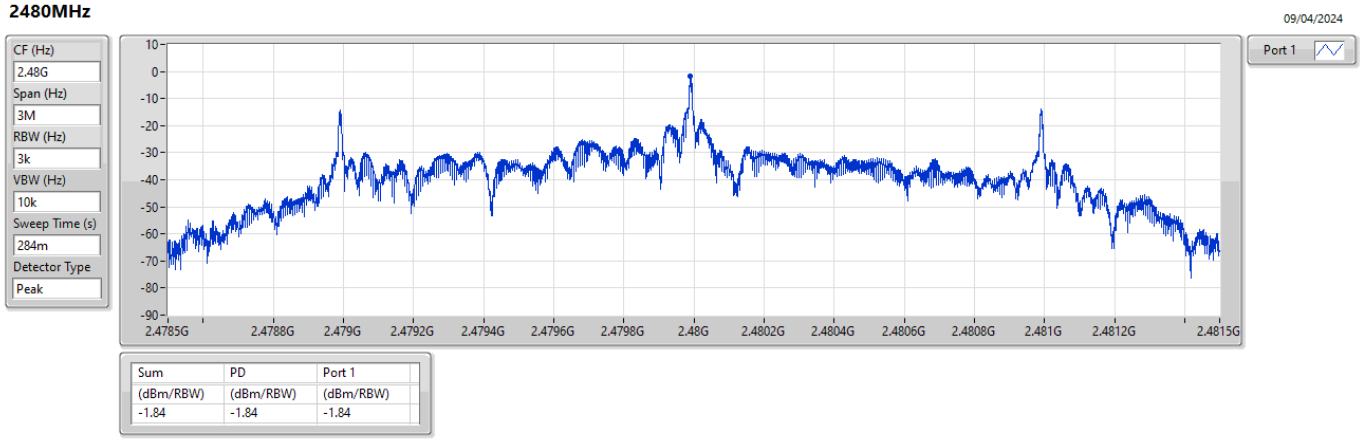
**2478MHz**




| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.38 | 7.38 | 7.38 |

**2.4-2.4835GHz_BT-LE(2Mbps)** **PSD**

**2480MHz**




| Sum | PD | Port 1 |
|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.84 | -1.84 | -1.84 |

Summary

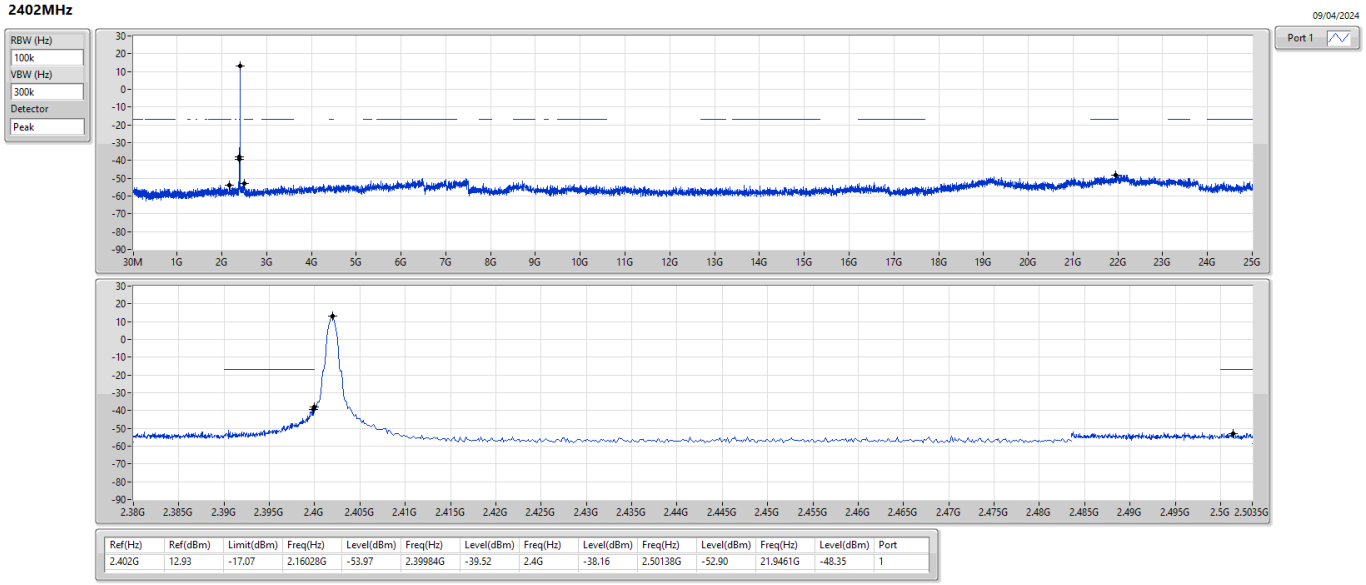
| Mode | Result | Ref (Hz) | Ref (dBm) | Limit (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Freq (Hz) | Level (dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4-2.4835GHz | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BT-LE(1Mbps) | Pass | 2.402G | 12.93 | -17.07 | 2.16028G | -53.97 | 2.39984G | -39.52 | 2.4G | -38.16 | 2.50138G | -52.90 | 21.9461G | -48.35 | 1 |
| BT-LE(2Mbps) | Pass | 2.402G | 15.55 | -14.45 | 34.7M | -55.12 | 2.4G | -15.17 | 2.4G | -16.12 | 2.50186G | -53.20 | 21.95172G | -48.10 | 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-LE(1Mbps) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2402MHz | Pass | 2.402G | 12.93 | -17.07 | 2.16028G | -53.97 | 2.39984G | -39.52 | 2.4G | -38.16 | 2.50138G | -52.90 | 21.9461G | -48.35 | 1 |
| 2440MHz | Pass | 2.402G | 12.93 | -17.07 | 33.53M | -54.32 | 2.39652G | -51.50 | 2.4G | -57.38 | 2.50126G | -52.38 | 21.67614G | -48.31 | 1 |
| 2480MHz | Pass | 2.402G | 12.93 | -17.07 | 1.92998G | -54.65 | 2.3966G | -52.16 | 2.4G | -57.78 | 2.50014G | -52.15 | 21.99109G | -48.50 | 1 |
| BT-LE(2Mbps) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2402MHz | Pass | 2.402G | 15.55 | -14.45 | 34.7M | -55.12 | 2.4G | -15.17 | 2.4G | -16.12 | 2.50186G | -53.20 | 21.95172G | -48.10 | 1 |
| 2440MHz | Pass | 2.402G | 15.55 | -14.45 | 2.05335G | -54.69 | 2.3978G | -51.95 | 2.4G | -56.72 | 2.5017G | -52.98 | 22.00515G | -47.53 | 1 |
| 2480MHz | Pass | 2.402G | 15.55 | -14.45 | 1.80425G | -53.46 | 2.39084G | -51.74 | 2.4G | -56.46 | 2.50238G | -51.65 | 21.90673G | -48.81 | 1 |

2.4-2.4835GHz_BT-LE(1Mbps) CSENdB-DTS

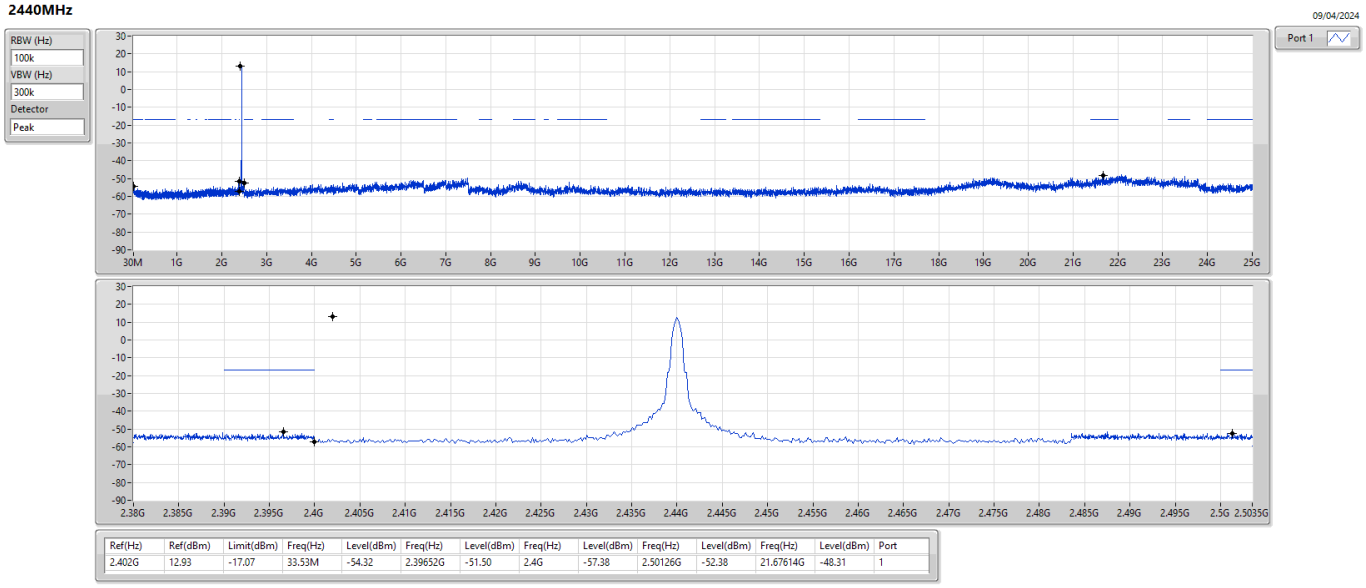
2402MHz




| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.402G | 12.93 | -17.07 | 2.16028G | -53.97 | 2.39984G | -39.52 | 2.4G | -38.16 | 2.50138G | -52.90 | 21.9461G | -48.35 | 1 |

2.4-2.4835GHz_BT-LE(1Mbps) CSENdB-DTS

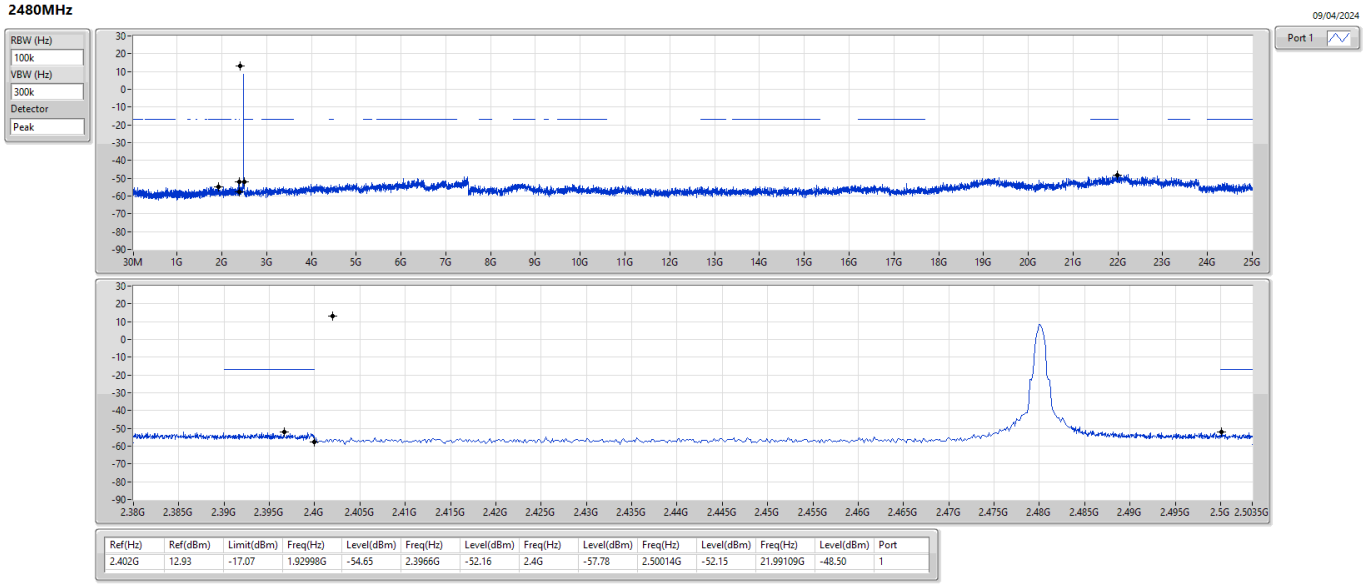
2440MHz




| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.402G | 12.93 | -17.07 | 33.53M | -54.32 | 2.39652G | -51.50 | 2.4G | -57.38 | 2.50126G | -52.38 | 21.67614G | -48.31 | 1 |

2.4-2.4835GHz_BT-LE(1Mbps) CSENdB-DTS

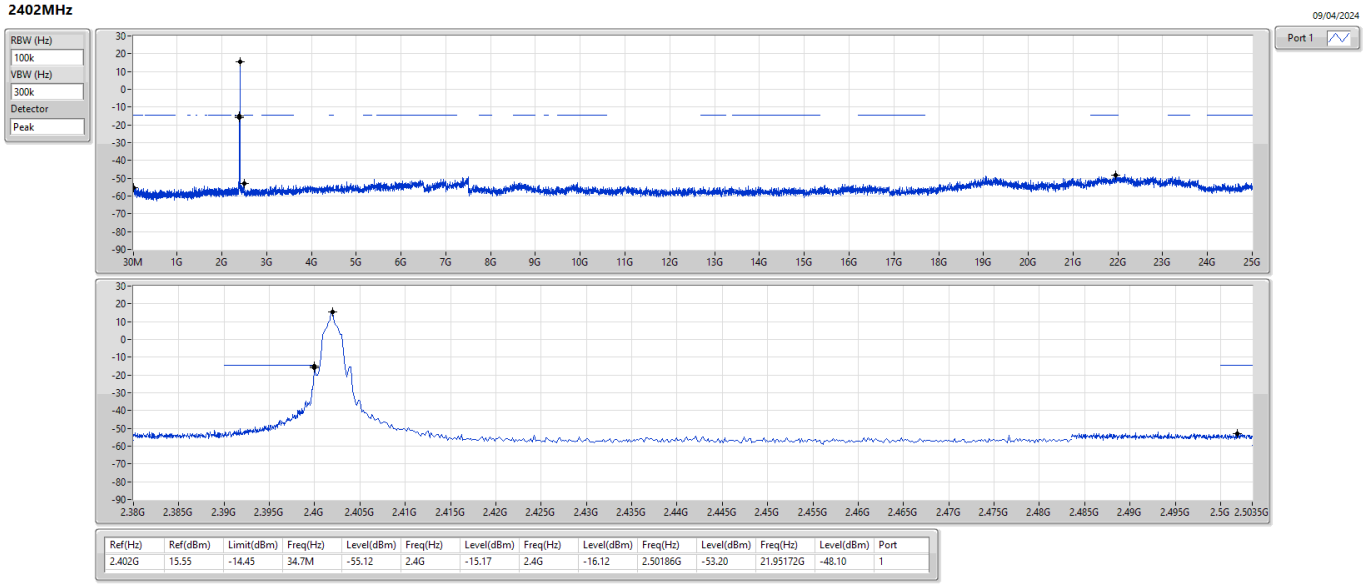
2480MHz




| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.402G | 12.93 | -17.07 | 1.92998G | -54.65 | 2.3966G | -52.16 | 2.4G | -57.78 | 2.50014G | -52.15 | 21.99109G | -48.50 | 1 |

2.4-2.4835GHz_BT-LE(2Mbps) CSENdB-DTS

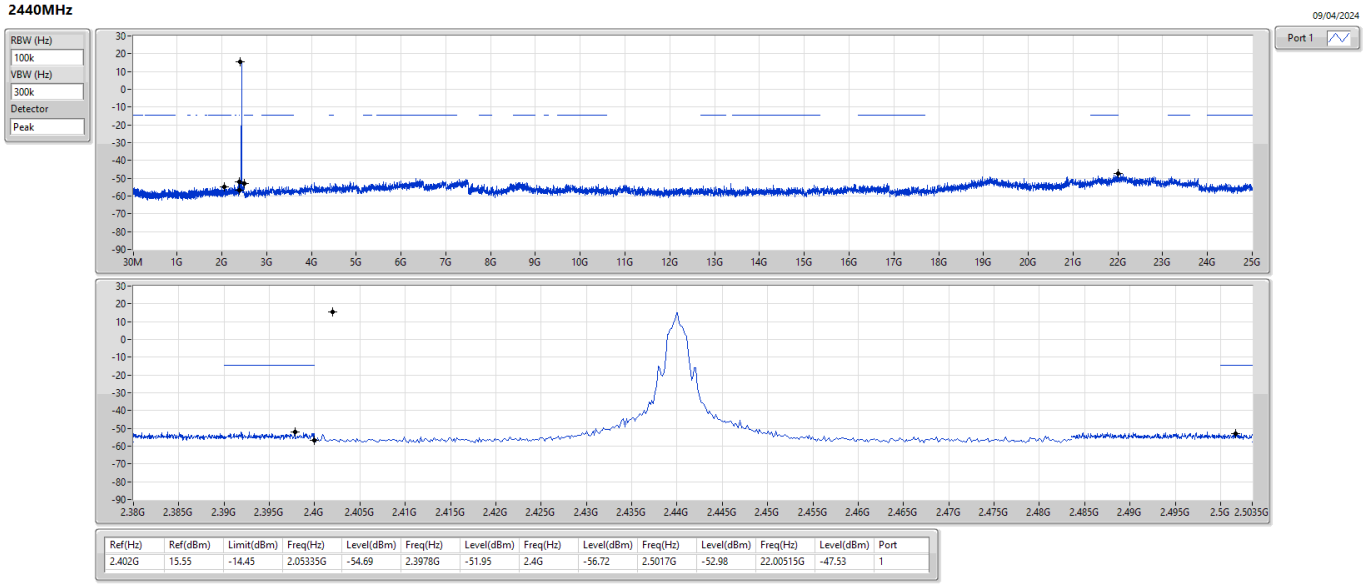
2402MHz




| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.402G | 15.55 | -14.45 | 34.7M | -55.12 | 2.4G | -15.17 | 2.4G | -16.12 | 2.50186G | -53.20 | 21.95172G | -48.10 | 1 |

2.4-2.4835GHz_BT-LE(2Mbps) CSENdB-DTS

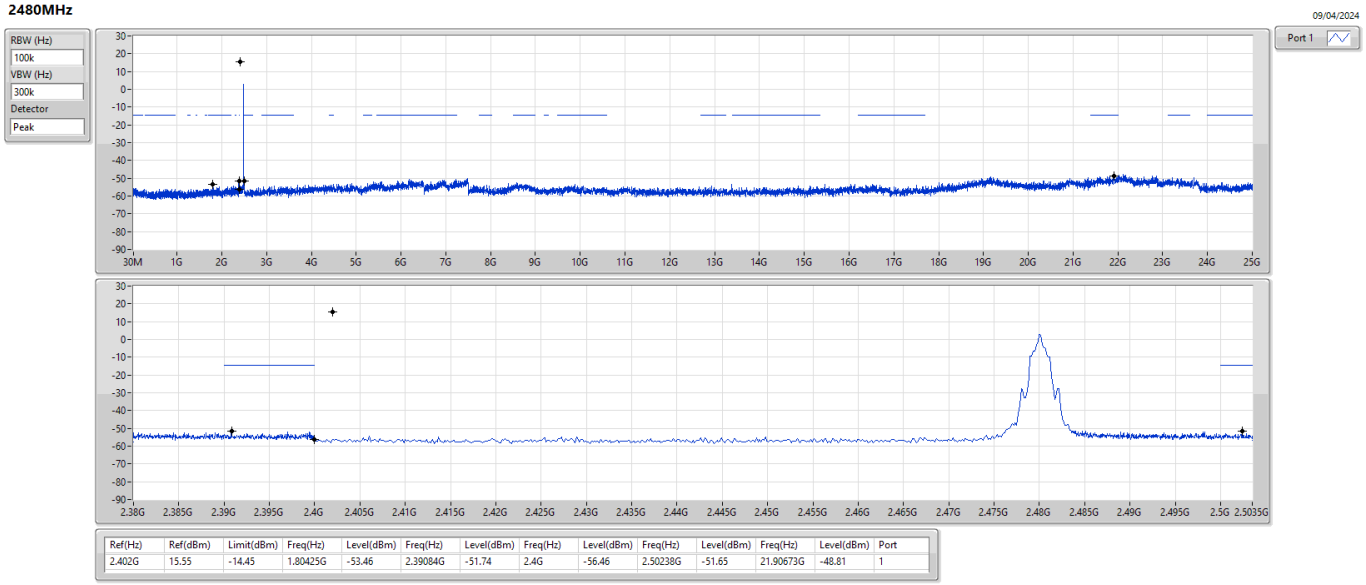
2440MHz




| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.402G | 15.55 | -14.45 | 2.05335G | -54.69 | 2.3978G | -51.95 | 2.4G | -56.72 | 2.5017G | -52.98 | 22.00515G | -47.53 | 1 |

2.4-2.4835GHz_BT-LE(2Mbps) CSENdB-DTS

2480MHz

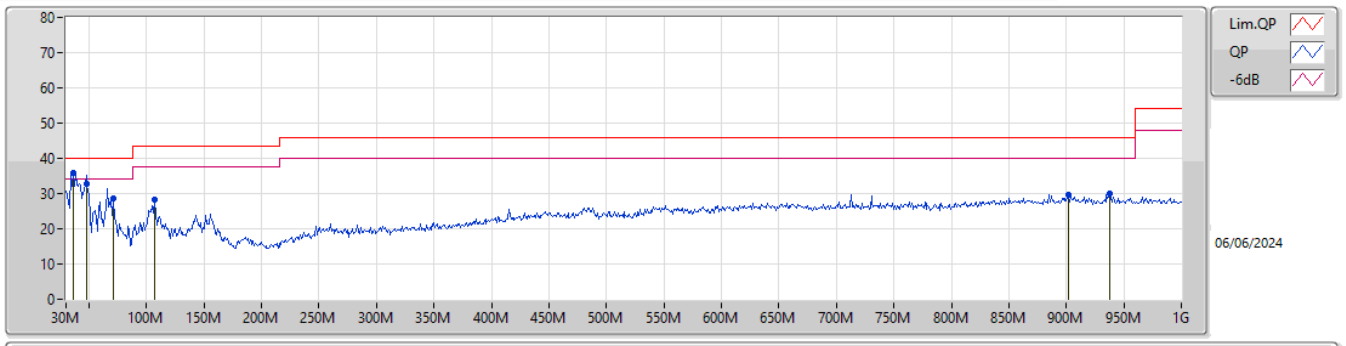



| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Port |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.402G | 15.55 | -14.45 | 1.80425G | -53.46 | 2.39084G | -51.74 | 2.4G | -56.46 | 2.50238G | -51.65 | 21.90673G | -48.81 | 1 |

Summary

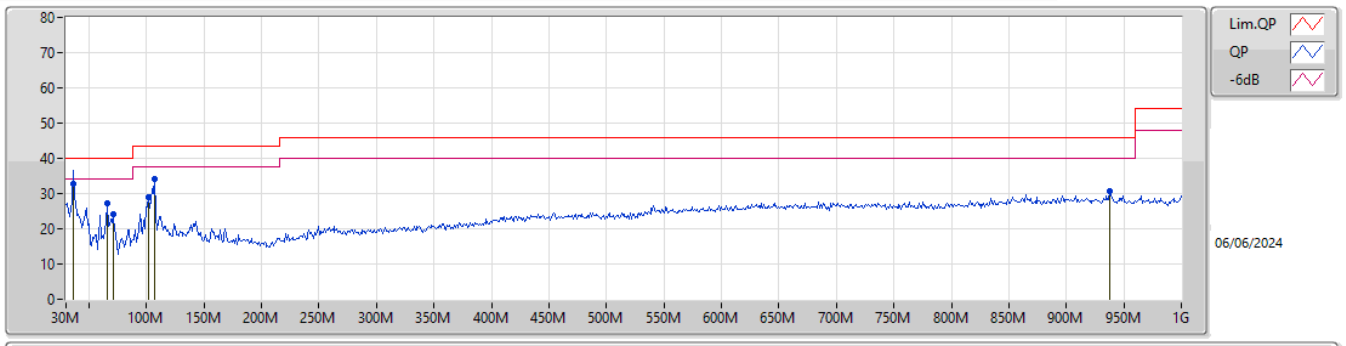
| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Condition |
|---|---|---|---|---|---|---|---|
| Mode 1 | Pass | QP | 36.79M | 35.77 | 40.00 | -4.23 | Vertical |

## Mode 1




| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB/m) | (m) | | (°) | (m) | | (dBuV/m) | (dB/m) | (dB) | (dB) |
| QP | 36.79M | 35.77 | 40.00 | -4.23 | -10.03 | 3 | Vertical | 28 | 1.50 | "Worst" | 45.80 | 20.21 | 0.38 | 30.62 |
| PK | 48.43M | 32.88 | 40.00 | -7.12 | -15.86 | 3 | Vertical | 195 | 1.00 | - | 48.74 | 14.45 | 0.51 | 30.82 |
| PK | 70.74M | 28.79 | 40.00 | -11.21 | -17.66 | 3 | Vertical | 52 | 2.00 | - | 46.45 | 12.41 | 0.66 | 30.73 |
| PK | 106.63M | 28.14 | 43.50 | -15.36 | -12.19 | 3 | Vertical | 221 | 1.00 | - | 40.33 | 17.75 | 0.86 | 30.80 |
| PK | 902.03M | 29.61 | 46.00 | -16.39 | -1.98 | 3 | Vertical | 149 | 1.25 | - | 31.59 | 26.84 | 3.08 | 31.90 |
| PK | 937.92M | 30.04 | 46.00 | -15.96 | -2.41 | 3 | Vertical | 0 | 1.00 | - | 32.45 | 26.62 | 3.18 | 32.21 |

## Mode 1



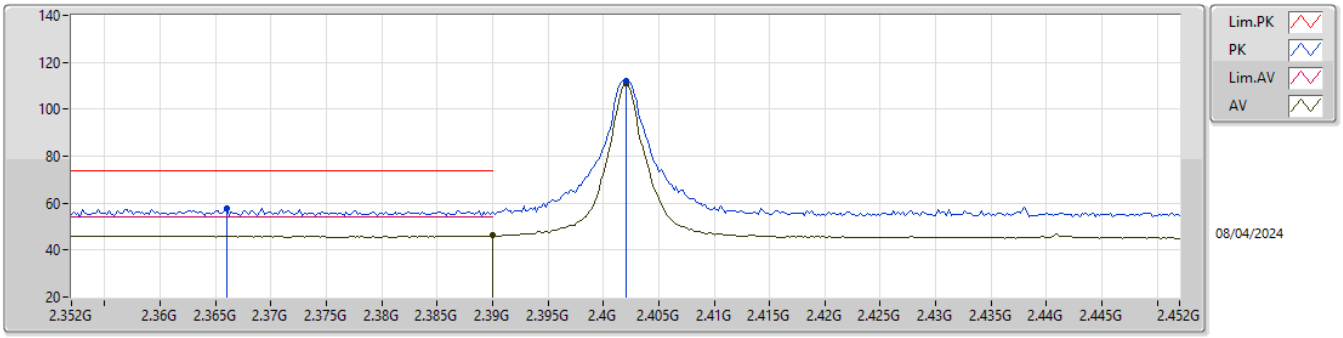

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB/m) | (m) | | (°) | (m) | | (dBuV/m) | (dB/m) | (dB) | (dB) |
| QP | 35.82M | 32.91 | 40.00 | -7.09 | -9.49 | 3 | Horizontal | 360 | 1.00 | "Worst" | 42.40 | 20.79 | 0.37 | 30.65 |
| PK | 65.89M | 27.32 | 40.00 | -12.68 | -17.97 | 3 | Horizontal | 113 | 3.00 | - | 45.29 | 12.34 | 0.63 | 30.94 |
| PK | 70.74M | 24.05 | 40.00 | -15.95 | -17.66 | 3 | Horizontal | 116 | 2.00 | - | 41.71 | 12.41 | 0.66 | 30.73 |
| PK | 101.78M | 29.02 | 43.50 | -14.48 | -12.49 | 3 | Horizontal | 116 | 1.25 | - | 41.51 | 17.39 | 0.83 | 30.71 |
| PK | 106.63M | 34.09 | 43.50 | -9.41 | -12.19 | 3 | Horizontal | 288 | 3.00 | - | 46.28 | 17.75 | 0.86 | 30.80 |
| PK | 937.92M | 30.56 | 46.00 | -15.44 | -2.41 | 3 | Horizontal | 70 | 3.00 | - | 32.97 | 26.62 | 3.18 | 32.21 |

Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4-2.4835GHz | - | - | - | - | - | - | - | - | - | - | - |
| BT-LE(2Mbps) | Pass | AV | 2.4835G | 53.81 | 54.00 | -0.19 | 3 | Horizontal | 40 | 1.00 | - |

**2.4-2.4835GHz_BT-LE(1Mbps)**

**2402MHz_TX**

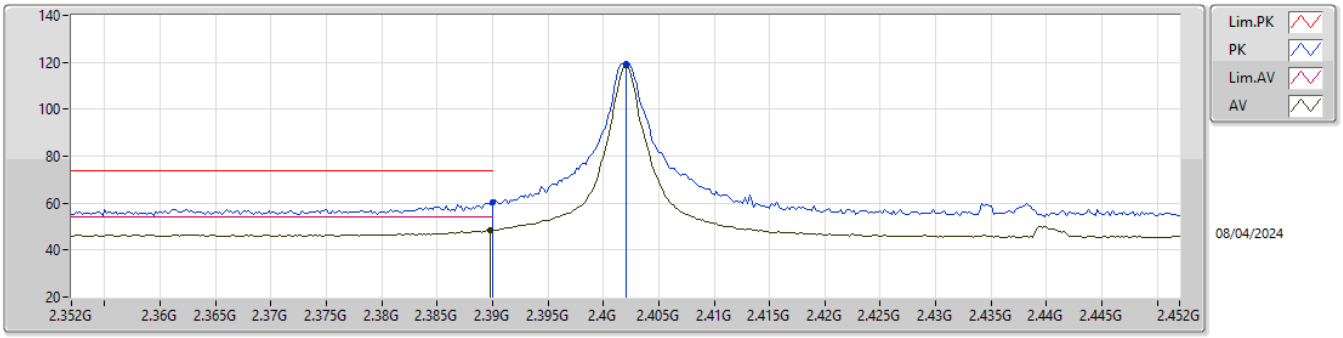



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.366G | 57.52 | 74.00 | -16.48 | 25.00 | 3 | Vertical | 34 | 1.03 | - | 27.84 | 4.68 | - |
| AV | 2.39G | 46.20 | 54.00 | -7.80 | 13.79 | 3 | Vertical | 34 | 1.03 | - | 27.70 | 4.71 | - |
| PK | 2.402G | 111.86 | Inf | -Inf | 79.46 | 3 | Vertical | 34 | 1.03 | - | 27.68 | 4.72 | - |
| AV | 2.402G | 111.05 | Inf | -Inf | 78.65 | 3 | Vertical | 34 | 1.03 | - | 27.68 | 4.72 | - |

**2.4-2.4835GHz_BT-LE(1Mbps)**

**2402MHz_TX**

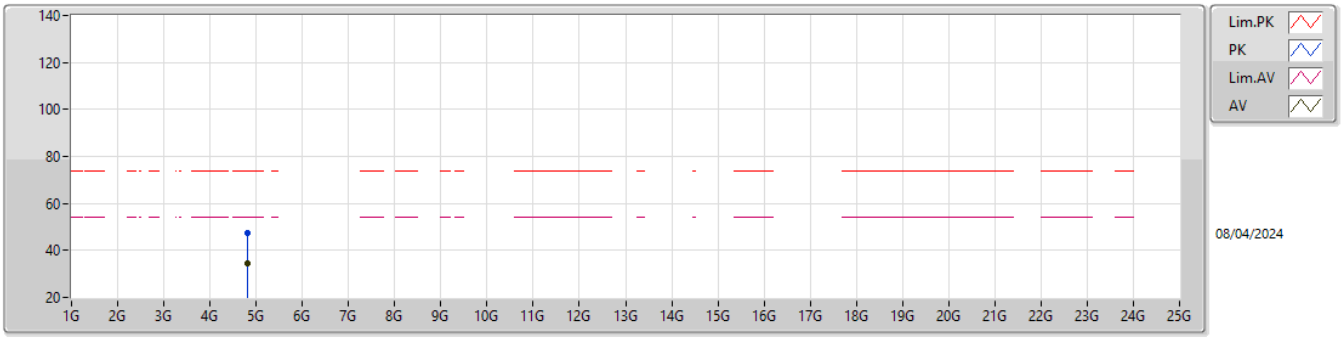



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.39G | 60.18 | 74.00 | -13.82 | 27.77 | 3 | Horizontal | 46 | 2.89 | - | 27.70 | 4.71 | - |
| AV | 2.3898G | 48.63 | 54.00 | -5.37 | 16.22 | 3 | Horizontal | 46 | 2.89 | - | 27.70 | 4.71 | - |
| PK | 2.402G | 119.39 | Inf | -Inf | 86.99 | 3 | Horizontal | 46 | 2.89 | - | 27.68 | 4.72 | - |
| AV | 2.402G | 118.55 | Inf | -Inf | 86.15 | 3 | Horizontal | 46 | 2.89 | - | 27.68 | 4.72 | - |

**2.4-2.4835GHz_BT-LE(1Mbps)**

**2402MHz_TX**

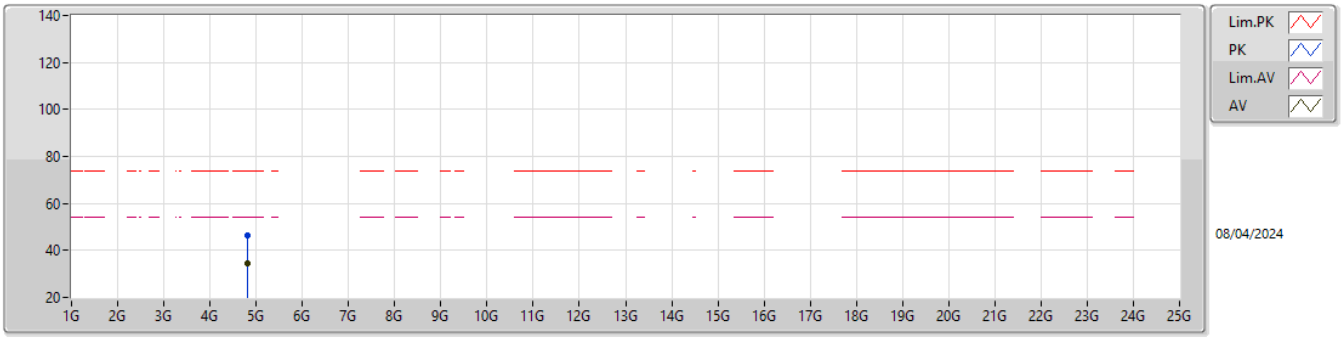



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.8088G | 47.36 | 74.00 | -26.64 | 40.79 | 3 | Vertical | 128 | 2.92 | - | 31.30 | 6.68 | 31.41 |
| AV | 4.80562G | 34.61 | 54.00 | -19.39 | 28.06 | 3 | Vertical | 128 | 2.92 | - | 31.30 | 6.67 | 31.42 |

**2.4-2.4835GHz_BT-LE(1Mbps)**

**2402MHz_TX**

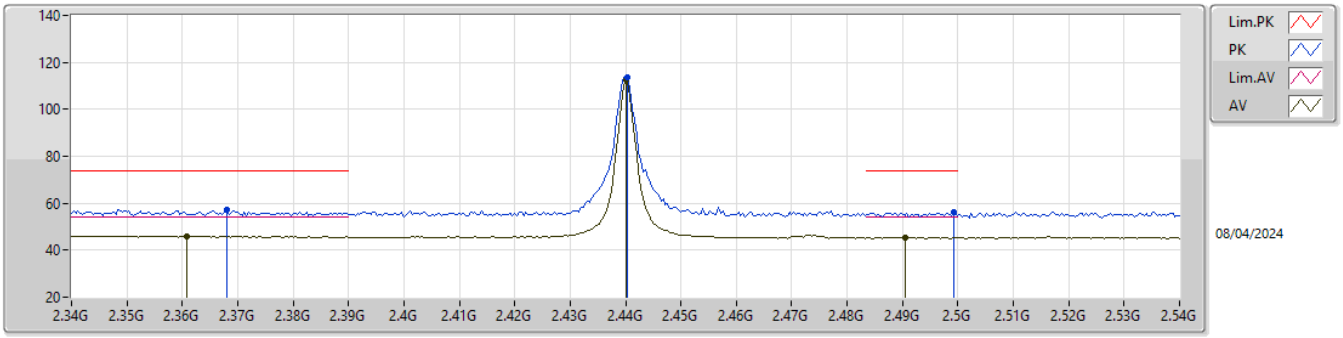



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.80442G | 46.30 | 74.00 | -27.70 | 39.75 | 3 | Horizontal | 128 | 2.05 | - | 31.30 | 6.67 | 31.42 |
| AV | 4.8031G | 34.63 | 54.00 | -19.37 | 28.08 | 3 | Horizontal | 128 | 2.05 | - | 31.30 | 6.67 | 31.42 |

**2.4-2.4835GHz_BT-LE(1Mbps)**

**2440MHz_TX**

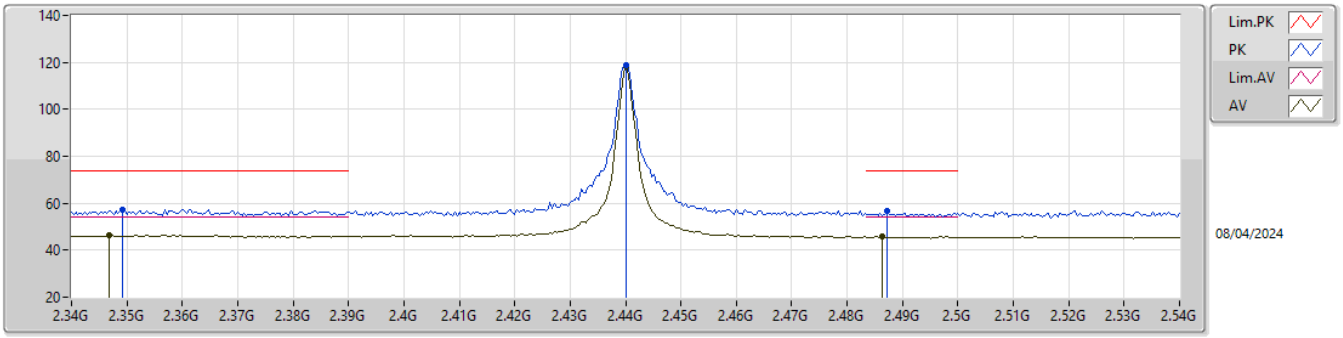



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.368G | 57.20 | 74.00 | -16.80 | 24.69 | 3 | Vertical | 350 | 2.58 | - | 27.82 | 4.69 | - |
| AV | 2.3608G | 46.05 | 54.00 | -7.95 | 13.48 | 3 | Vertical | 350 | 2.58 | - | 27.89 | 4.68 | - |
| PK | 2.4404G | 113.48 | Inf | -Inf | 81.22 | 3 | Vertical | 350 | 2.58 | - | 27.50 | 4.76 | - |
| AV | 2.44G | 112.63 | Inf | -Inf | 80.37 | 3 | Vertical | 350 | 2.58 | - | 27.50 | 4.76 | - |
| PK | 2.4992G | 56.01 | 74.00 | -17.99 | 23.80 | 3 | Vertical | 350 | 2.58 | - | 27.40 | 4.81 | - |
| AV | 2.4904G | 45.58 | 54.00 | -8.42 | 13.38 | 3 | Vertical | 350 | 2.58 | - | 27.40 | 4.80 | - |

**2.4-2.4835GHz_BT-LE(1Mbps)**

**2440MHz_TX**

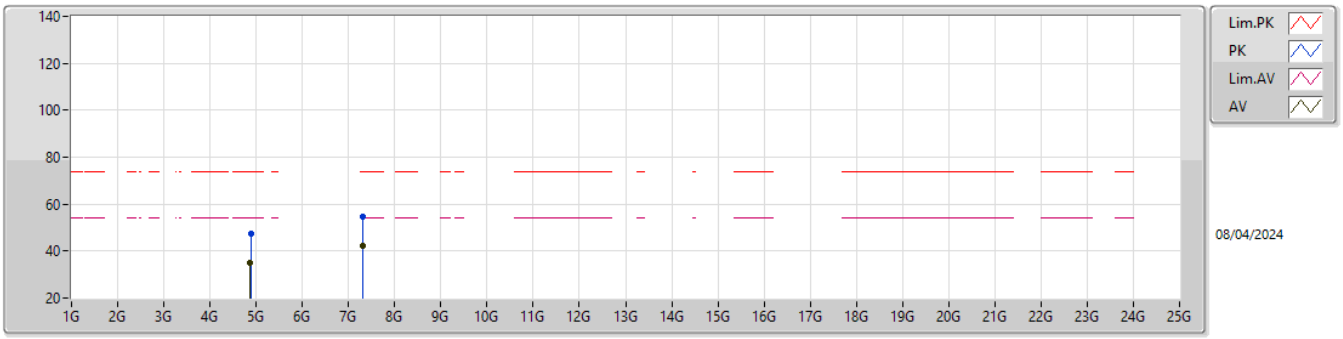



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3492G | 57.33 | 74.00 | -16.67 | 24.76 | 3 | Horizontal | 39 | 2.85 | - | 27.90 | 4.67 | - |
| AV | 2.3468G | 46.25 | 54.00 | -7.75 | 13.69 | 3 | Horizontal | 39 | 2.85 | - | 27.90 | 4.66 | - |
| PK | 2.44G | 118.88 | Inf | -Inf | 86.62 | 3 | Horizontal | 39 | 2.85 | - | 27.50 | 4.76 | - |
| AV | 2.44G | 118.06 | Inf | -Inf | 85.80 | 3 | Horizontal | 39 | 2.85 | - | 27.50 | 4.76 | - |
| PK | 2.4872G | 56.54 | 74.00 | -17.46 | 24.34 | 3 | Horizontal | 39 | 2.85 | - | 27.40 | 4.80 | - |
| AV | 2.4864G | 45.79 | 54.00 | -8.21 | 13.59 | 3 | Horizontal | 39 | 2.85 | - | 27.40 | 4.80 | - |

**2.4-2.4835GHz_BT-LE(1Mbps)**

**2440MHz_TX**

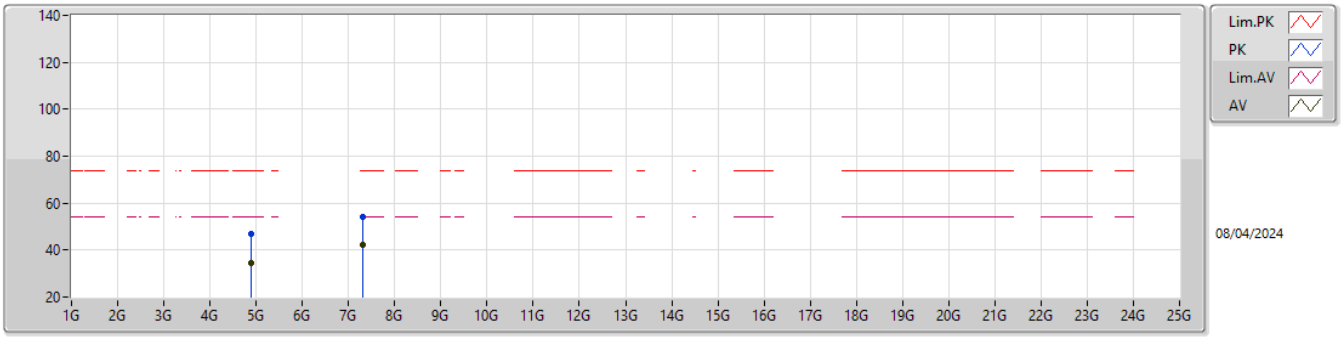



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.87808G | 47.34 | 74.00 | -26.66 | 40.67 | 3 | Vertical | 121 | 1.80 | - | 31.30 | 6.74 | 31.37 |
| AV | 4.86578G | 34.86 | 54.00 | -19.14 | 28.20 | 3 | Vertical | 121 | 1.80 | - | 31.30 | 6.73 | 31.37 |
| PK | 7.31322G | 54.50 | 74.00 | -19.50 | 42.16 | 3 | Vertical | 337 | 1.80 | - | 36.60 | 8.34 | 32.60 |
| AV | 7.31442G | 42.08 | 54.00 | -11.92 | 29.75 | 3 | Vertical | 337 | 1.80 | - | 36.60 | 8.34 | 32.61 |

**2.4-2.4835GHz_BT-LE(1Mbps)**

**2440MHz_TX**

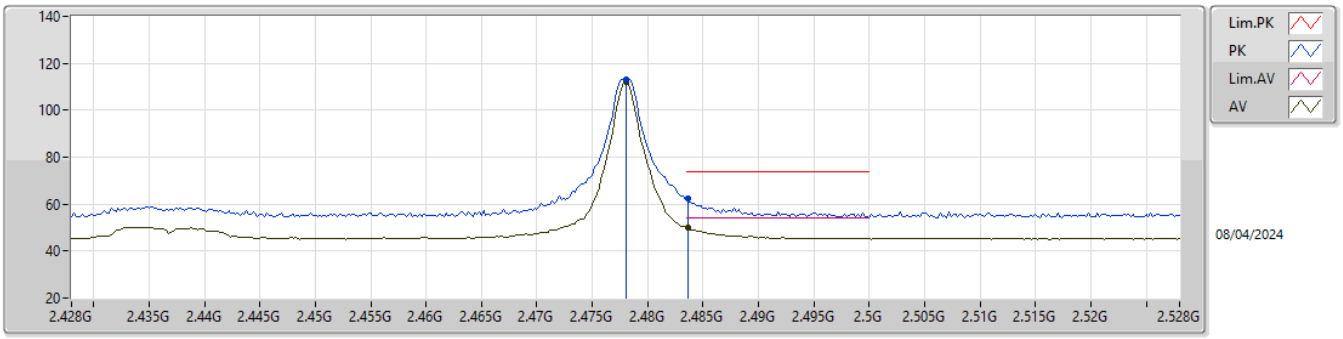



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.89338G | 46.82 | 74.00 | -27.18 | 40.12 | 3 | Horizontal | 39 | 2.25 | - | 31.30 | 6.75 | 31.35 |
| AV | 4.87976G | 34.67 | 54.00 | -19.33 | 27.99 | 3 | Horizontal | 39 | 2.25 | - | 31.30 | 6.74 | 31.36 |
| PK | 7.32138G | 54.23 | 74.00 | -19.77 | 41.91 | 3 | Horizontal | 69 | 1.04 | - | 36.60 | 8.34 | 32.62 |
| AV | 7.32174G | 42.02 | 54.00 | -11.98 | 29.70 | 3 | Horizontal | 69 | 1.04 | - | 36.60 | 8.34 | 32.62 |

**2.4-2.4835GHz_BT-LE(1Mbps)**

**2478MHz_TX**

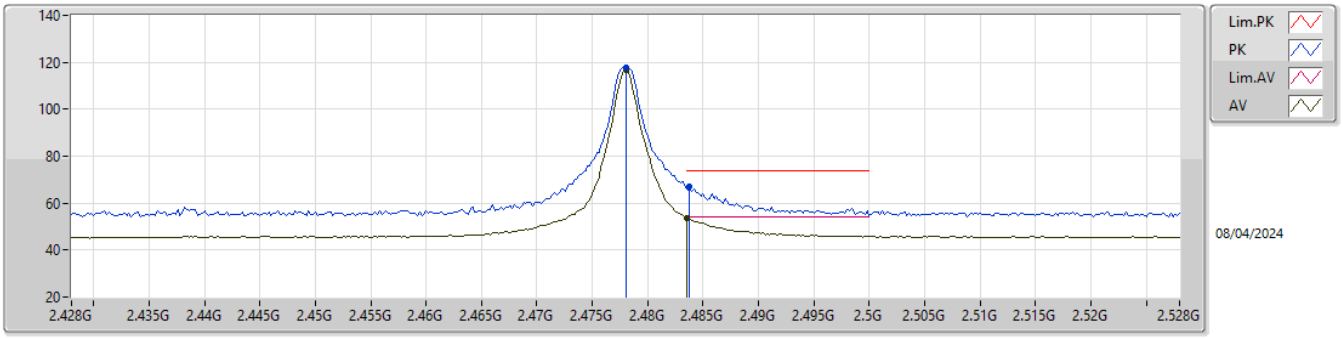



EUT X_1TX
Setting 17.5
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.478G | 113.17 | Inf | -Inf | 80.98 | 3 | Vertical | 0 | 2.78 | - | 27.40 | 4.79 | - |
| AV | 2.478G | 112.29 | Inf | -Inf | 80.10 | 3 | Vertical | 0 | 2.78 | - | 27.40 | 4.79 | - |
| PK | 2.4836G | 62.34 | 74.00 | -11.66 | 30.14 | 3 | Vertical | 0 | 2.78 | - | 27.40 | 4.80 | - |
| AV | 2.4836G | 50.00 | 54.00 | -4.00 | 17.80 | 3 | Vertical | 0 | 2.78 | - | 27.40 | 4.80 | - |

**2.4-2.4835GHz_BT-LE(1Mbps)**

**2478MHz_TX**

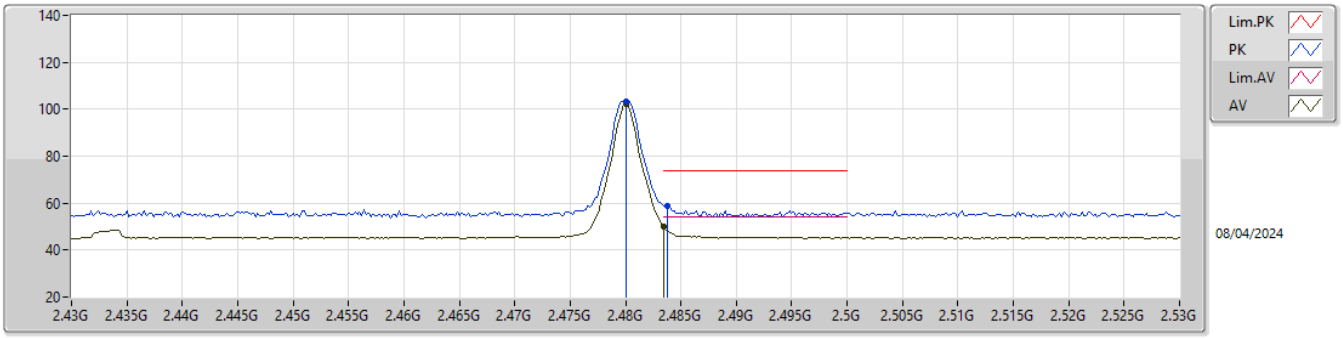



EUT X_1TX
Setting 17.5
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.478G | 117.76 | Inf | -Inf | 85.57 | 3 | Horizontal | 33 | 1.00 | - | 27.40 | 4.79 | - |
| AV | 2.478G | 116.89 | Inf | -Inf | 84.70 | 3 | Horizontal | 33 | 1.00 | - | 27.40 | 4.79 | - |
| PK | 2.4838G | 66.83 | 74.00 | -7.17 | 34.63 | 3 | Horizontal | 33 | 1.00 | - | 27.40 | 4.80 | - |
| AV | 2.4835G | 53.71 | 54.00 | -0.29 | 21.51 | 3 | Horizontal | 33 | 1.00 | - | 27.40 | 4.80 | - |

**2.4-2.4835GHz_BT-LE(1Mbps)**

**2480MHz_TX**

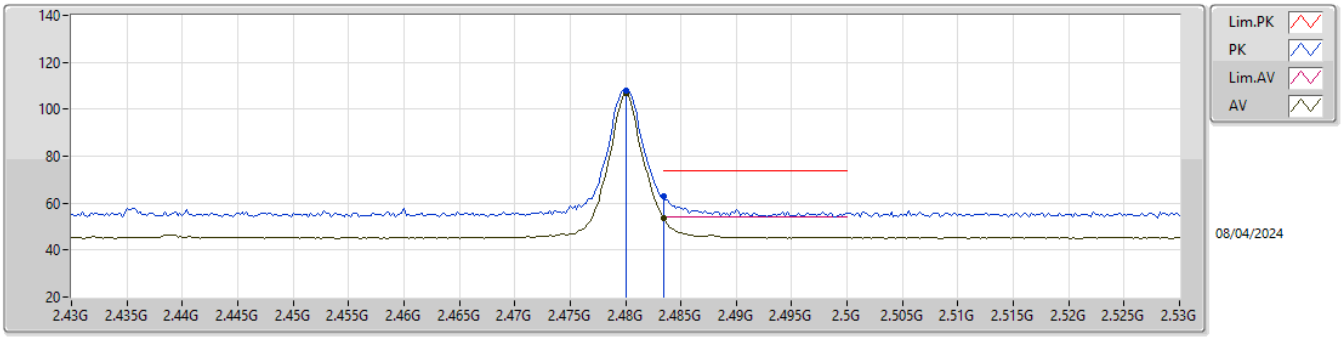



EUT X_1TX
Setting 8.5
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.48G | 103.34 | Inf | -Inf | 71.15 | 3 | Vertical | 0 | 2.79 | - | 27.40 | 4.79 | - |
| AV | 2.48G | 102.49 | Inf | -Inf | 70.30 | 3 | Vertical | 0 | 2.79 | - | 27.40 | 4.79 | - |
| PK | 2.4838G | 58.88 | 74.00 | -15.12 | 26.68 | 3 | Vertical | 0 | 2.79 | - | 27.40 | 4.80 | - |
| AV | 2.4835G | 49.99 | 54.00 | -4.01 | 17.79 | 3 | Vertical | 0 | 2.79 | - | 27.40 | 4.80 | - |

**2.4-2.4835GHz_BT-LE(1Mbps)**

**2480MHz_TX**

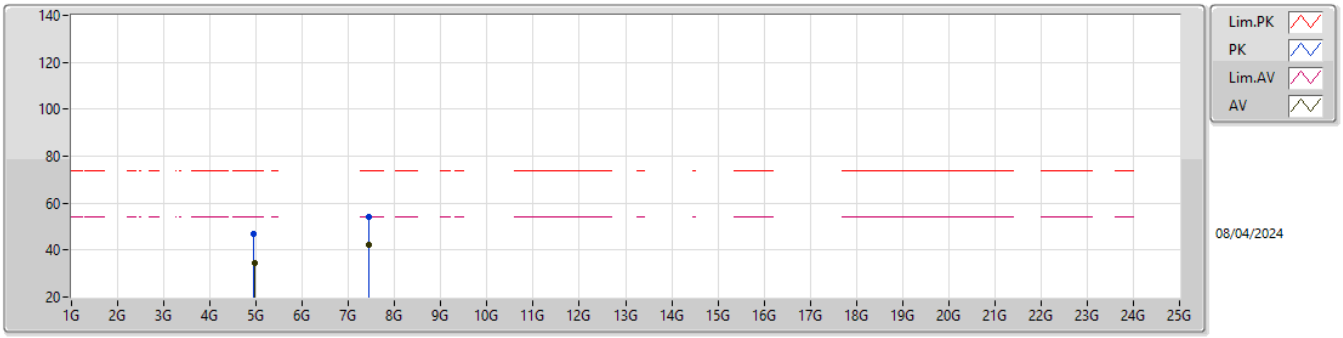



EUT X_1TX
Setting 8.5
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.48G | 107.78 | Inf | -Inf | 75.59 | 3 | Horizontal | 46 | 2.70 | - | 27.40 | 4.79 | - |
| AV | 2.48G | 106.88 | Inf | -Inf | 74.69 | 3 | Horizontal | 46 | 2.70 | - | 27.40 | 4.79 | - |
| PK | 2.4835G | 62.70 | 74.00 | -11.30 | 30.50 | 3 | Horizontal | 46 | 2.70 | - | 27.40 | 4.80 | - |
| AV | 2.4835G | 53.68 | 54.00 | -0.32 | 21.48 | 3 | Horizontal | 46 | 2.70 | - | 27.40 | 4.80 | - |

**2.4-2.4835GHz_BT-LE(1Mbps)**

**2480MHz_TX**

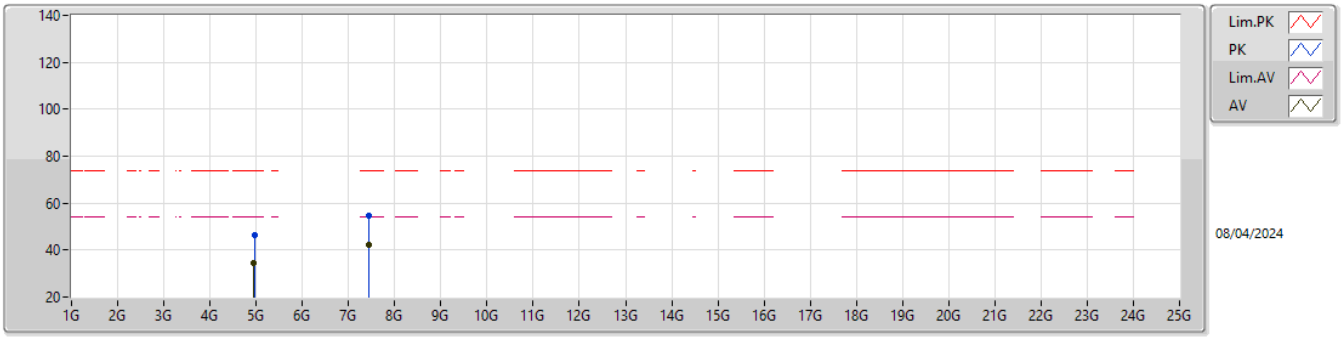



EUT X_1TX
Setting 8.5
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.95364G | 47.14 | 74.00 | -26.86 | 40.14 | 3 | Vertical | 107 | 2.05 | - | 31.51 | 6.80 | 31.31 |
| AV | 4.96846G | 34.64 | 54.00 | -19.36 | 27.56 | 3 | Vertical | 107 | 2.05 | - | 31.57 | 6.81 | 31.30 |
| PK | 7.43298G | 54.32 | 74.00 | -19.68 | 42.05 | 3 | Vertical | 157 | 1.03 | - | 36.67 | 8.37 | 32.77 |
| AV | 7.44792G | 42.32 | 54.00 | -11.68 | 30.04 | 3 | Vertical | 157 | 1.03 | - | 36.70 | 8.38 | 32.80 |

**2.4-2.4835GHz_BT-LE(1Mbps)**

**2480MHz_TX**

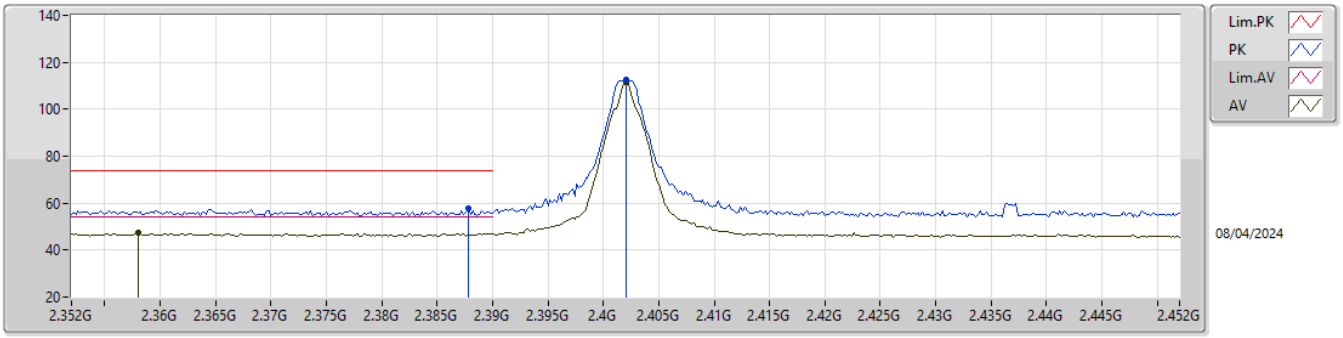



EUT X_1TX
Setting 8.5
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.97272G | 46.23 | 74.00 | -27.77 | 39.12 | 3 | Horizontal | 147 | 2.38 | - | 31.59 | 6.82 | 31.30 |
| AV | 4.94836G | 34.70 | 54.00 | -19.30 | 27.73 | 3 | Horizontal | 147 | 2.38 | - | 31.49 | 6.80 | 31.32 |
| PK | 7.44654G | 54.54 | 74.00 | -19.46 | 42.26 | 3 | Horizontal | 38 | 2.89 | - | 36.69 | 8.38 | 32.79 |
| AV | 7.44294G | 42.40 | 54.00 | -11.60 | 30.12 | 3 | Horizontal | 38 | 2.89 | - | 36.69 | 8.38 | 32.79 |

**2.4-2.4835GHz_BT-LE(2Mbps)**

**2402MHz_TX**

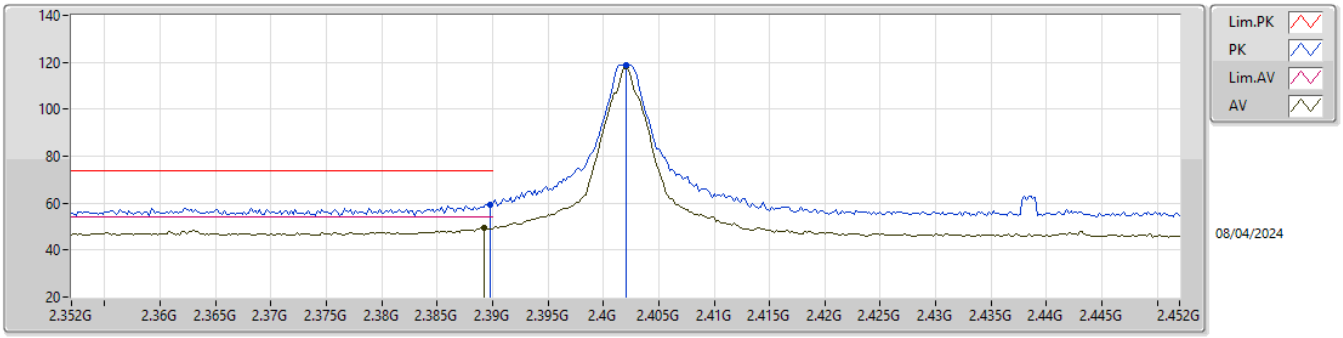



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3878G | 57.76 | 74.00 | -16.24 | 25.35 | 3 | Vertical | 33 | 1.06 | - | 27.70 | 4.71 | - |
| AV | 2.358G | 47.22 | 54.00 | -6.78 | 14.64 | 3 | Vertical | 33 | 1.06 | - | 27.90 | 4.68 | - |
| PK | 2.402G | 112.33 | Inf | -Inf | 79.93 | 3 | Vertical | 33 | 1.06 | - | 27.68 | 4.72 | - |
| AV | 2.402G | 111.60 | Inf | -Inf | 79.20 | 3 | Vertical | 33 | 1.06 | - | 27.68 | 4.72 | - |

**2.4-2.4835GHz_BT-LE(2Mbps)**

**2402MHz_TX**

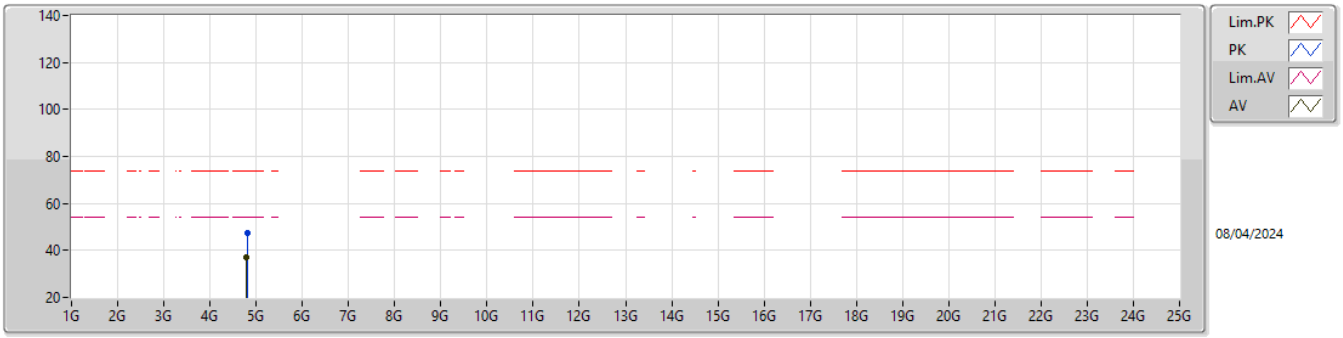



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3898G | 59.47 | 74.00 | -14.53 | 27.06 | 3 | Horizontal | 36 | 2.62 | - | 27.70 | 4.71 | - |
| AV | 2.3892G | 49.70 | 54.00 | -4.30 | 17.29 | 3 | Horizontal | 36 | 2.62 | - | 27.70 | 4.71 | - |
| PK | 2.402G | 118.87 | Inf | -Inf | 86.47 | 3 | Horizontal | 36 | 2.62 | - | 27.68 | 4.72 | - |
| AV | 2.402G | 118.15 | Inf | -Inf | 85.75 | 3 | Horizontal | 36 | 2.62 | - | 27.68 | 4.72 | - |

**2.4-2.4835GHz_BT-LE(2Mbps)**

**2402MHz_TX**

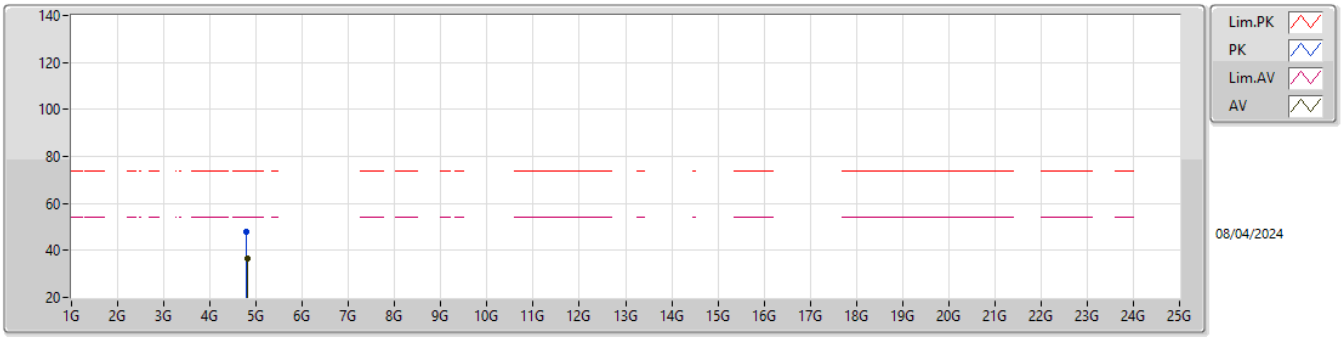



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.8031G | 47.67 | 74.00 | -26.33 | 41.12 | 3 | Vertical | 119 | 1.68 | - | 31.30 | 6.67 | 31.42 |
| AV | 4.78906G | 37.08 | 54.00 | -16.92 | 30.55 | 3 | Vertical | 119 | 1.68 | - | 31.30 | 6.66 | 31.43 |

**2.4-2.4835GHz_BT-LE(2Mbps)**

**2402MHz_TX**

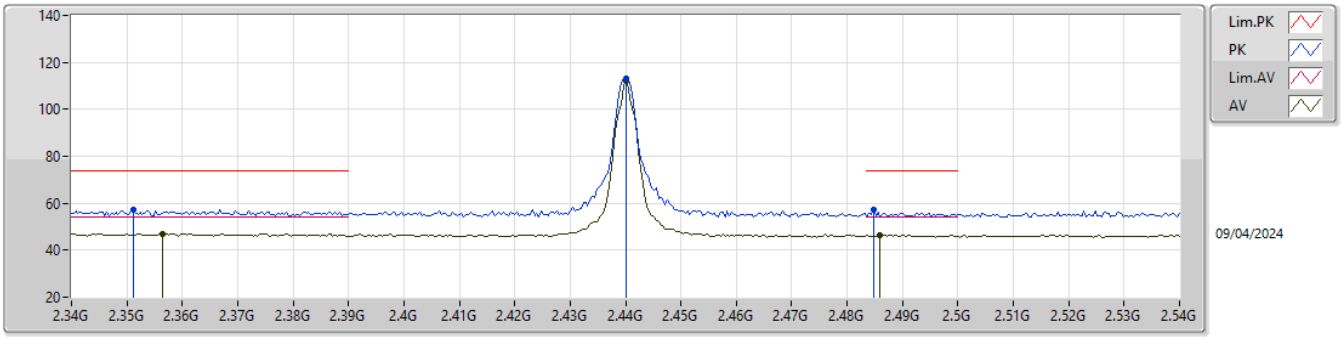



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.79812G | 47.70 | 74.00 | -26.30 | 41.15 | 3 | Horizontal | 120 | 2.64 | - | 31.30 | 6.67 | 31.42 |
| AV | 4.81888G | 36.77 | 54.00 | -17.23 | 30.19 | 3 | Horizontal | 120 | 2.64 | - | 31.30 | 6.69 | 31.41 |

**2.4-2.4835GHz_BT-LE(2Mbps)**

**2440MHz_TX**

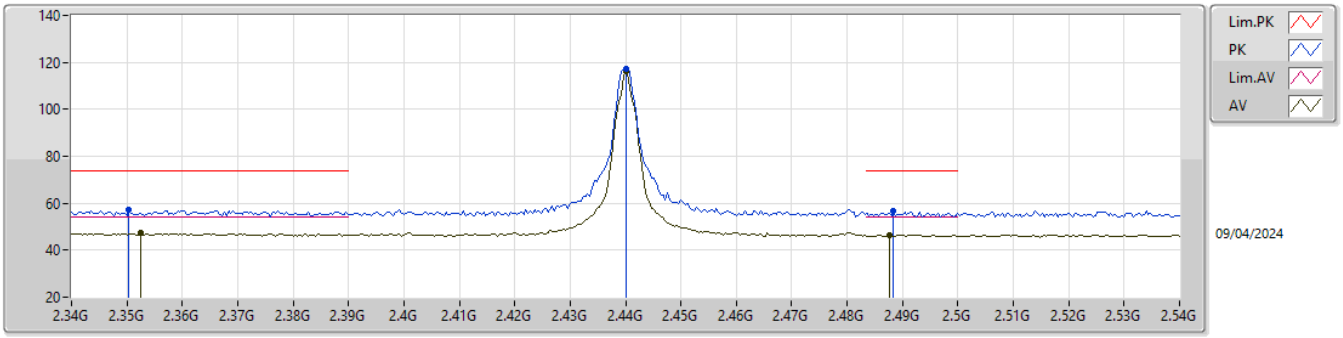



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3512G | 57.48 | 74.00 | -16.52 | 24.91 | 3 | Vertical | 1 | 2.58 | - | 27.90 | 4.67 | - |
| AV | 2.3564G | 47.10 | 54.00 | -6.90 | 14.53 | 3 | Vertical | 1 | 2.58 | - | 27.90 | 4.67 | - |
| PK | 2.44G | 113.00 | Inf | -Inf | 80.74 | 3 | Vertical | 1 | 2.58 | - | 27.50 | 4.76 | - |
| AV | 2.44G | 112.19 | Inf | -Inf | 79.93 | 3 | Vertical | 1 | 2.58 | - | 27.50 | 4.76 | - |
| PK | 2.4848G | 57.06 | 74.00 | -16.94 | 24.86 | 3 | Vertical | 1 | 2.58 | - | 27.40 | 4.80 | - |
| AV | 2.486G | 46.38 | 54.00 | -7.62 | 14.18 | 3 | Vertical | 1 | 2.58 | - | 27.40 | 4.80 | - |

**2.4-2.4835GHz_BT-LE(2Mbps)**

**2440MHz_TX**

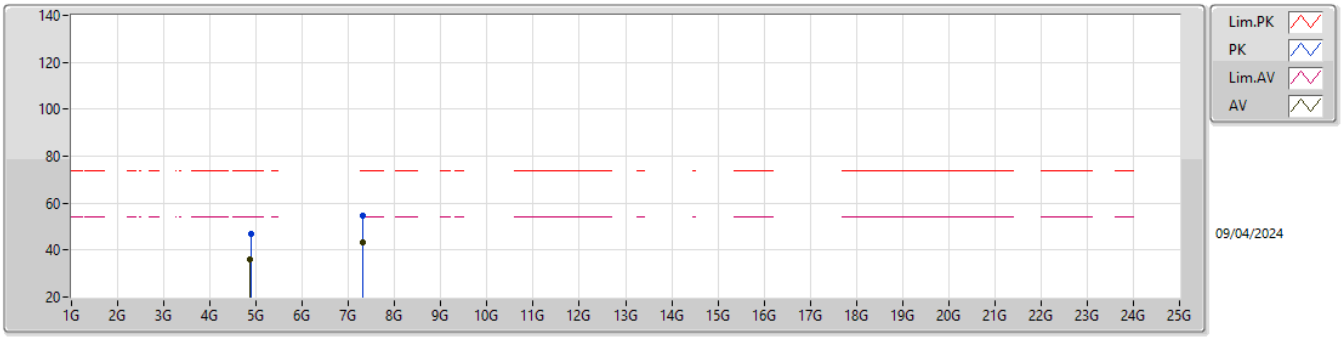



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.3504G | 57.35 | 74.00 | -16.65 | 24.78 | 3 | Horizontal | 48 | 1.40 | - | 27.90 | 4.67 | - |
| AV | 2.3524G | 47.19 | 54.00 | -6.81 | 14.62 | 3 | Horizontal | 48 | 1.40 | - | 27.90 | 4.67 | - |
| PK | 2.44G | 117.09 | Inf | -Inf | 84.83 | 3 | Horizontal | 48 | 1.40 | - | 27.50 | 4.76 | - |
| AV | 2.44G | 116.28 | Inf | -Inf | 84.02 | 3 | Horizontal | 48 | 1.40 | - | 27.50 | 4.76 | - |
| PK | 2.4884G | 56.82 | 74.00 | -17.18 | 24.62 | 3 | Horizontal | 48 | 1.40 | - | 27.40 | 4.80 | - |
| AV | 2.4876G | 46.59 | 54.00 | -7.41 | 14.39 | 3 | Horizontal | 48 | 1.40 | - | 27.40 | 4.80 | - |

**2.4-2.4835GHz_BT-LE(2Mbps)**

**2440MHz_TX**

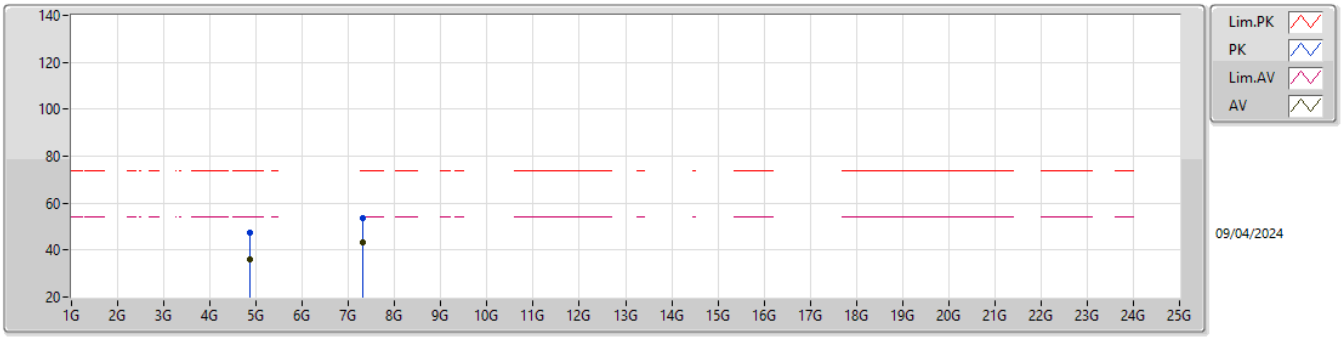



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.89386G | 46.96 | 74.00 | -27.04 | 40.26 | 3 | Vertical | 304 | 2.07 | - | 31.30 | 6.75 | 31.35 |
| AV | 4.8773G | 36.00 | 54.00 | -18.00 | 29.33 | 3 | Vertical | 304 | 2.07 | - | 31.30 | 6.74 | 31.37 |
| PK | 7.30596G | 54.81 | 74.00 | -19.19 | 42.46 | 3 | Vertical | 132 | 1.66 | - | 36.60 | 8.34 | 32.59 |
| AV | 7.31898G | 43.37 | 54.00 | -10.63 | 31.04 | 3 | Vertical | 132 | 1.66 | - | 36.60 | 8.34 | 32.61 |

**2.4-2.4835GHz_BT-LE(2Mbps)**

**2440MHz_TX**

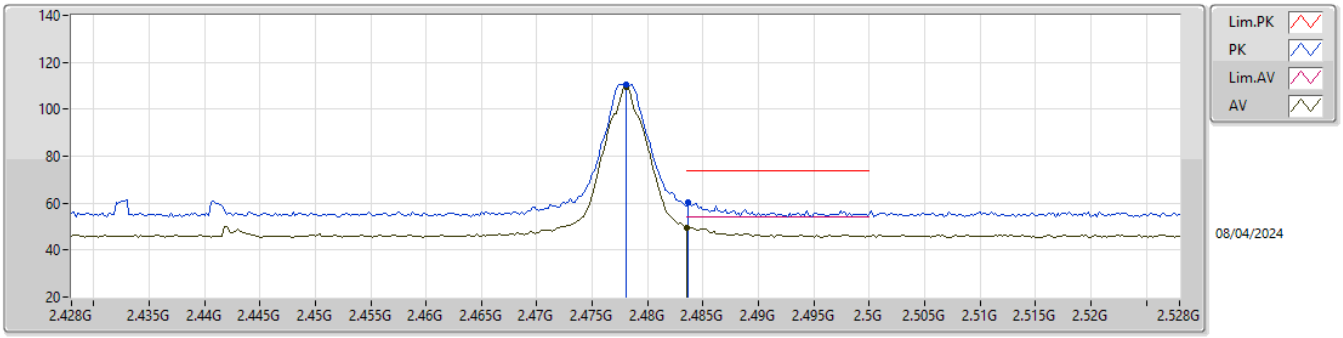



EUT X_1TX
Setting 20
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.87598G | 47.42 | 74.00 | -26.58 | 40.76 | 3 | Horizontal | 37 | 2.64 | - | 31.30 | 6.73 | 31.37 |
| AV | 4.87244G | 36.26 | 54.00 | -17.74 | 29.60 | 3 | Horizontal | 37 | 2.64 | - | 31.30 | 6.73 | 31.37 |
| PK | 7.3125G | 53.58 | 74.00 | -20.42 | 41.24 | 3 | Horizontal | 323 | 1.22 | - | 36.60 | 8.34 | 32.60 |
| AV | 7.31178G | 43.20 | 54.00 | -10.80 | 30.86 | 3 | Horizontal | 323 | 1.22 | - | 36.60 | 8.34 | 32.60 |

**2.4-2.4835GHz_BT-LE(2Mbps)**

**2478MHz_TX**

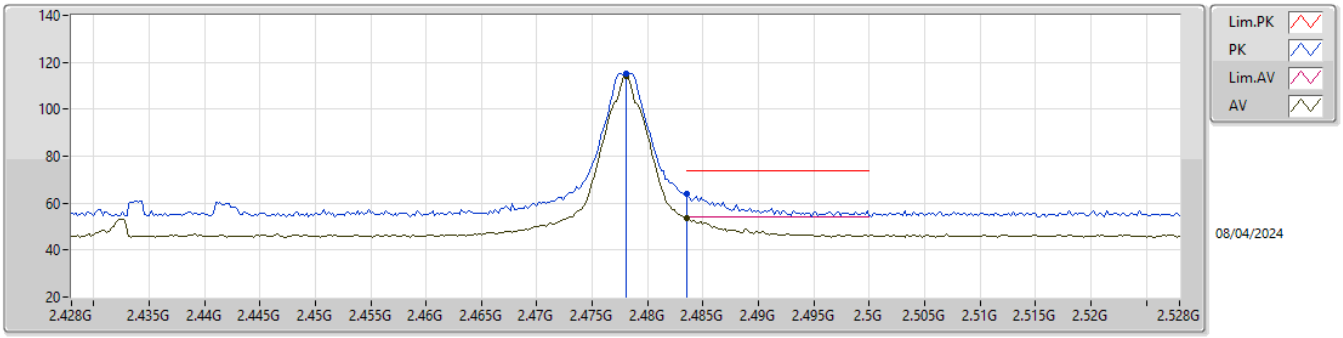



EUT X_1TX
Setting 15
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.478G | 110.53 | Inf | -Inf | 78.34 | 3 | Vertical | 0 | 2.79 | - | 27.40 | 4.79 | - |
| AV | 2.478G | 109.74 | Inf | -Inf | 77.55 | 3 | Vertical | 0 | 2.79 | - | 27.40 | 4.79 | - |
| PK | 2.4836G | 60.52 | 74.00 | -13.48 | 28.32 | 3 | Vertical | 0 | 2.79 | - | 27.40 | 4.80 | - |
| AV | 2.4835G | 49.54 | 54.00 | -4.46 | 17.34 | 3 | Vertical | 0 | 2.79 | - | 27.40 | 4.80 | - |

**2.4-2.4835GHz_BT-LE(2Mbps)**

**2478MHz_TX**

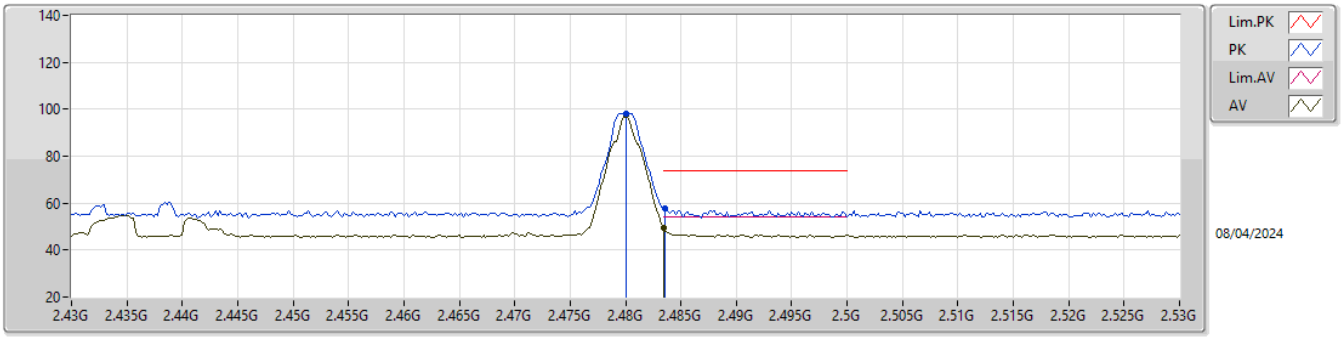



EUT X_1TX
Setting 15
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.478G | 115.09 | Inf | -Inf | 82.90 | 3 | Horizontal | 40 | 1.00 | - | 27.40 | 4.79 | - |
| AV | 2.478G | 114.33 | Inf | -Inf | 82.14 | 3 | Horizontal | 40 | 1.00 | - | 27.40 | 4.79 | - |
| PK | 2.4835G | 64.14 | 74.00 | -9.86 | 31.94 | 3 | Horizontal | 40 | 1.00 | - | 27.40 | 4.80 | - |
| AV | 2.4835G | 53.81 | 54.00 | -0.19 | 21.61 | 3 | Horizontal | 40 | 1.00 | - | 27.40 | 4.80 | - |

**2.4-2.4835GHz_BT-LE(2Mbps)**

**2480MHz_TX**

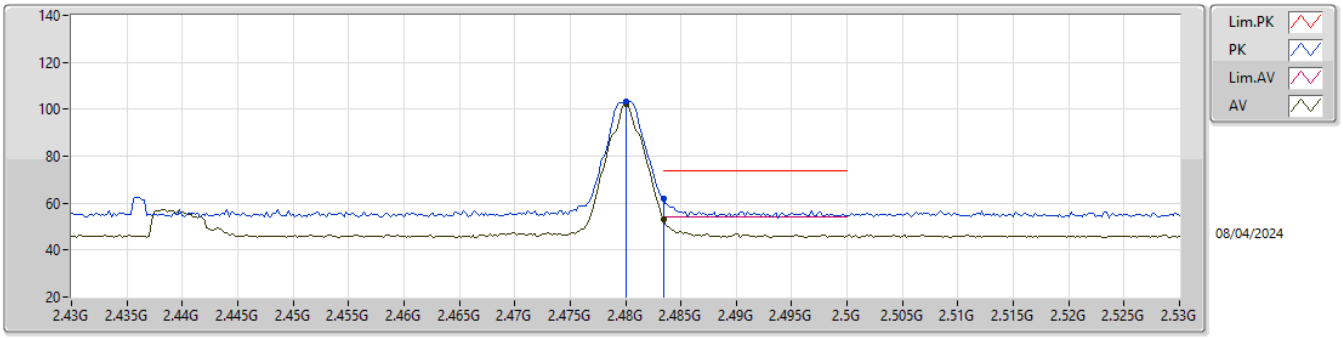



EUT X_1TX
Setting 3.5
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.48G | 98.22 | Inf | -Inf | 66.03 | 3 | Vertical | 0 | 2.80 | - | 27.40 | 4.79 | - |
| AV | 2.48G | 97.41 | Inf | -Inf | 65.22 | 3 | Vertical | 0 | 2.80 | - | 27.40 | 4.79 | - |
| PK | 2.4836G | 57.72 | 74.00 | -16.28 | 25.52 | 3 | Vertical | 0 | 2.80 | - | 27.40 | 4.80 | - |
| AV | 2.4835G | 49.74 | 54.00 | -4.26 | 17.54 | 3 | Vertical | 0 | 2.80 | - | 27.40 | 4.80 | - |

**2.4-2.4835GHz_BT-LE(2Mbps)**

**2480MHz_TX**

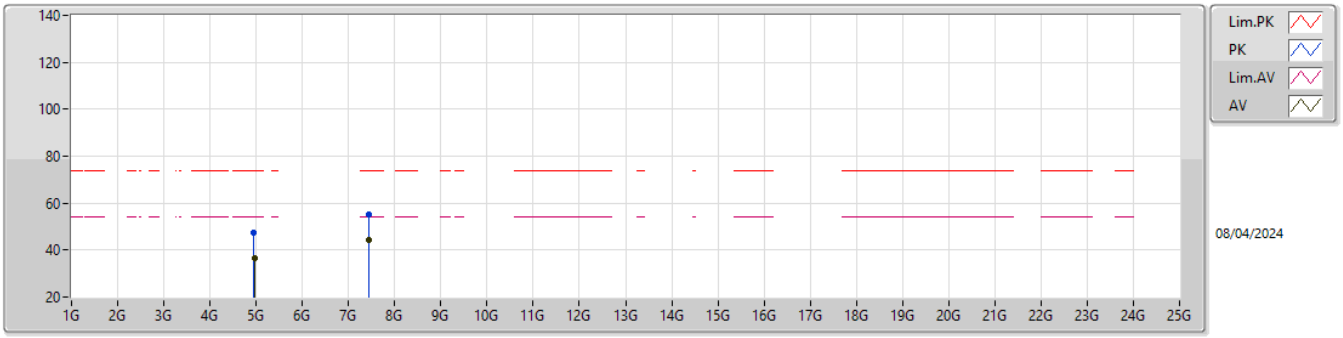



EUT X_1TX
Setting 3.5
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 2.48G | 103.07 | Inf | -Inf | 70.88 | 3 | Horizontal | 41 | 1.00 | - | 27.40 | 4.79 | - |
| AV | 2.48G | 102.33 | Inf | -Inf | 70.14 | 3 | Horizontal | 41 | 1.00 | - | 27.40 | 4.79 | - |
| PK | 2.4835G | 61.81 | 74.00 | -12.19 | 29.61 | 3 | Horizontal | 41 | 1.00 | - | 27.40 | 4.80 | - |
| AV | 2.4835G | 53.21 | 54.00 | -0.79 | 21.01 | 3 | Horizontal | 41 | 1.00 | - | 27.40 | 4.80 | - |

**2.4-2.4835GHz_BT-LE(2Mbps)**

**2480MHz_TX**

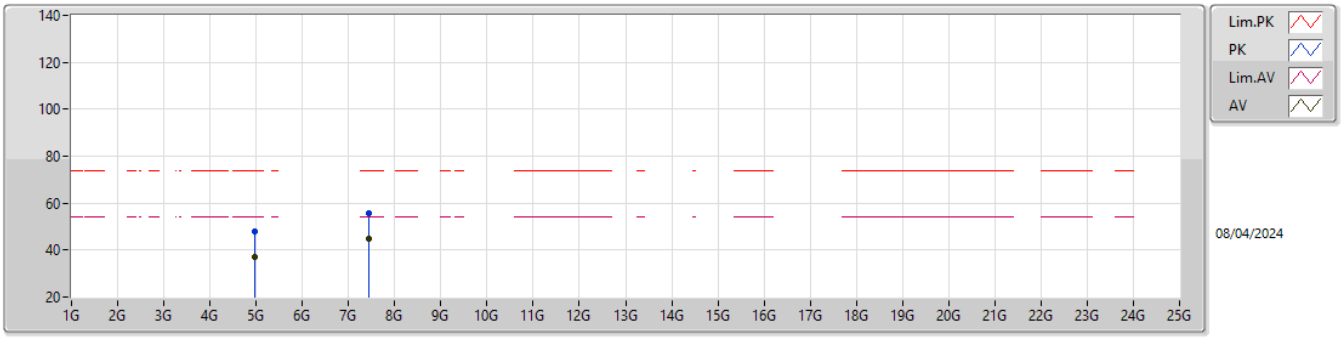



EUT X_1TX
Setting 3.5
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.9498G | 47.36 | 74.00 | -26.64 | 40.38 | 3 | Vertical | 20 | 2.41 | - | 31.50 | 6.80 | 31.32 |
| AV | 4.97344G | 36.49 | 54.00 | -17.51 | 29.38 | 3 | Vertical | 20 | 2.41 | - | 31.59 | 6.82 | 31.30 |
| PK | 7.42986G | 55.29 | 74.00 | -18.71 | 43.03 | 3 | Vertical | 292 | 1.25 | - | 36.66 | 8.37 | 32.77 |
| AV | 7.43796G | 44.39 | 54.00 | -9.61 | 32.12 | 3 | Vertical | 292 | 1.25 | - | 36.68 | 8.37 | 32.78 |

**2.4-2.4835GHz_BT-LE(2Mbps)**

**2480MHz_TX**




EUT X_1TX
Setting 3.5
06-D-M-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.96636G | 47.71 | 74.00 | -26.29 | 40.63 | 3 | Horizontal | 99 | 1.80 | - | 31.57 | 6.81 | 31.30 |
| AV | 4.95664G | 36.90 | 54.00 | -17.10 | 29.88 | 3 | Horizontal | 99 | 1.80 | - | 31.53 | 6.80 | 31.31 |
| PK | 7.45278G | 55.45 | 74.00 | -18.55 | 43.17 | 3 | Horizontal | 248 | 1.48 | - | 36.69 | 8.39 | 32.80 |
| AV | 7.44348G | 44.58 | 54.00 | -9.42 | 32.30 | 3 | Horizontal | 248 | 1.48 | - | 36.69 | 8.38 | 32.79 |