



# FCC Test Report

**FCC ID** : UDX-600100010  
**Equipment** : Wi-Fi 6 Outdoor Access Point  
**Brand Name** : CISCO  
**Model Name** : MR76-HW  
**Applicant** : Cisco Systems, Inc.  
170 West Tasman Drive San Jose,  
CA 95134 USA  
**Manufacturer** : Cisco Systems, Inc.  
170 West Tasman Drive San Jose,  
CA 95134 USA  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Jul. 25, 2019, and testing was started from Aug. 05, 2019 and completed on Oct. 29, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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



Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

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

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## History of this test report

[illegible]

## 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               | -      |

**Declaration of Conformity:**

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

**Comments and explanations:**

None

**Reviewed by:** Ben Tseng

**Report Producer:** Ann Hou

# 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)   | 1.0        | 1TX  |
| 2.4-2.4835GHz | BT-LE(125kbps) | 2.0        | 1TX  |
| 2.4-2.4835GHz | BT-LE(500kbps) | 2.0        | 1TX  |
| 2.4-2.4835GHz | BT-LE(2Mbps)   | 2.0        | 1TX  |

Note:

- ♦ Bluetooth LE uses a GFSK (1Mbps/2Mbps/0.125Mbps/0.5Mbps) modulation for DSSS.
- ♦ BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

| Group | Ant. No. |   | Brand  | Model Name | Antenna Type | Connector |
|-------|----------|---|--------|------------|--------------|-----------|
| 1     | 20       | 1 | Meraki | MA-ANT-20  | Omni         | N-Type    |
|       |          | 2 | Meraki | MA-ANT-20  | Omni         | N-Type    |
|       |          | 3 | Meraki | MA-ANT-20  | Omni         | N-Type    |
|       |          | 4 | Meraki | MA-ANT-20  | Omni         | N-Type    |
| 2     | 21+23    | 1 | Meraki | MA-ANT-23  | Sector       | N-Type    |
|       |          | 2 | Meraki | MA-ANT-23  | Sector       | N-Type    |
|       |          | 3 | Meraki | MA-ANT-21  | Sector       | N-Type    |
|       |          | 4 | Meraki | MA-ANT-21  | Sector       | N-Type    |
| 3     | 25       | 1 | Meraki | MA-ANT-25  | Sector       | N-Type    |
|       |          | 2 | Meraki | MA-ANT-25  | Sector       | N-Type    |
|       |          | 3 | Meraki | MA-ANT-25  | Sector       | N-Type    |
|       |          | 4 | Meraki | MA-ANT-25  | Sector       | N-Type    |
| 4     | 27       | 1 | Meraki | MA-ANT-27  | Sector       | N-Type    |
|       |          | 2 | Meraki | MA-ANT-27  | Sector       | N-Type    |
|       |          | 3 | Meraki | MA-ANT-27  | Sector       | N-Type    |
|       |          | 4 | Meraki | MA-ANT-27  | Sector       | N-Type    |
| -     | -        | 5 | Meraki | MR76       | PIFA         | I-PEX     |
| -     | -        | 6 | Meraki | MR76       | PIFA         | I-PEX     |

| Group | Ant. No. |   | Gain (dBi) |      |     | Elevation angle<br>above 30 degrees<br>Gain (dBi) | Remark                      |
|-------|----------|---|------------|------|-----|---------------------------------------------------|-----------------------------|
|       |          |   | 2.4G       | 5G   | BT  |                                                   |                             |
| 1     | 20       | 1 | 4          | -    | -   | -                                                 | Radio 1                     |
|       |          | 2 | 4          | -    | -   | -                                                 | Radio 1                     |
|       |          | 3 | -          | 7    | -   | -1                                                | Radio 2                     |
|       |          | 4 | -          | 7    | -   | -1                                                | Radio 2                     |
| 2     | 21+23    | 1 | 11         | -    | -   | -                                                 | Radio 1                     |
|       |          | 2 | 11         | -    | -   | -                                                 | Radio 1                     |
|       |          | 3 | -          | 13   | -   | 11.2                                              | Radio 2                     |
|       |          | 4 | -          | 13   | -   | 11.2                                              | Radio 2                     |
| 3     | 25       | 1 | 8.1        | -    | -   | -                                                 | Radio 1                     |
|       |          | 2 | 8.1        | -    | -   | -                                                 | Radio 1                     |
|       |          | 3 | -          | 7.1  | -   | 1.8                                               | Radio 2                     |
|       |          | 4 | -          | 7.1  | -   | 1.8                                               | Radio 2                     |
| 4     | 27       | 1 | 9.8        | -    | -   | -                                                 | Radio 1                     |
|       |          | 2 | 9.8        | -    | -   | -                                                 | Radio 1                     |
|       |          | 3 | -          | 11.3 | -   | 9.7                                               | Radio 2                     |
|       |          | 4 | -          | 11.3 | -   | 9.7                                               | Radio 2                     |
| -     | -        | 5 | 4.6        | 5.9  | -   | 5.20                                              | Radio 3<br>(Scanning Radio) |
| -     | -        | 6 | -          | -    | 4.7 | -                                                 | Radio 4<br>(BT LE)          |

Note 1: The EUT has six antennas.

**For 2.4GHz function:**

**<Radio 1>**

For IEEE 802.11 b/g/n/ac/ax mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was record in this test report.

For IEEE 802.11 b/g/n/ac/ax mode (2TX/2RX)

Ant. 1 and Ant. 2 could transmit/receive simultaneously.

**<Radio 3>**

For IEEE 802.11 b/g/n/ac mode (1TX/1RX)

Ant. 5 could transmit/receive simultaneously.

**For 5GHz function:**

**<Radio 2>**

For IEEE 802.11 a/an/ac/ax mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was record in this test report.

For IEEE 802.11 a/an/ac/ax mode (2TX/2RX)

Ant. 3 and Ant. 4 could transmit/receive simultaneously.

**<Radio 3>**

For IEEE 802.11 a/an/ac mode (1TX/1RX)

Ant. 5 could transmit/receive simultaneously.

**For BT function:**

**<Radio 4>**

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

Ant. 6 could transmit/receive simultaneously.

### 1.1.3 EUT Information

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

### 1.1.4 Mode Test Duty Cycle

| Mode           | DC    | DCF(dB) | T(s)     | VBW(Hz) ≥ 1/T |
|----------------|-------|---------|----------|---------------|
| BT-LE(1Mbps)   | 0.085 | 10.71   | 106.25u  | 10k           |
| BT-LE(125kbps) | 0.299 | 5.24    | 746.875u | 3k            |
| BT-LE(500kbps) | 0.195 | 7.1     | 487.5u   | 3k            |
| BT-LE(2Mbps)   | 0.055 | 12.6    | 68.75u   | 10k           |

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

### 1.1.5 Table for Multiple Listing

The brand/model names in the following table are all refer to the identical product.

| Sample                  | Description                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------|
| SKU1: Screened C-temp   | All the Samples are identical, the difference samples for difference NAND, DDR, Security chip. |
| SKU2: unscreened C-temp |                                                                                                |

## 1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Testing Location                           |        |                                                                              |                      |  |
|--------------------------------------------|--------|------------------------------------------------------------------------------|----------------------|--|
| <input checked="" type="checkbox"/>        | HWA YA | ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)    |                      |  |
|                                            |        | TEL : 886-3-327-3456                                                         | FAX : 886-3-327-0973 |  |
| Test site Designation No. TW1190 with FCC. |        |                                                                              |                      |  |
| <input type="checkbox"/>                   | JHUBEI | ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.) |                      |  |
|                                            |        | TEL : 886-3-656-9065                                                         | FAX : 886-3-656-9085 |  |
| Test site Designation No. TW0006 with FCC. |        |                                                                              |                      |  |

| Test Condition        | Test Site No. | Test Engineer | Test Environment            | Test Date                    |
|-----------------------|---------------|---------------|-----------------------------|------------------------------|
| AC Conduction         | CO04-HY       | Edward        | 25.2~26.9°C /<br>60.1~63.3% | 15/Aug/2019                  |
| AC Conduction<br>(BF) | CO04-HY       | Edward        | 25.5~26.2°C /<br>60.3~62.2% | 08/Oct/2019                  |
| RF Conducted          | TH01-HY       | Andy          | 22.5~25.9°C /<br>59.5~66.8% | 10/Aug/2019~<br>29/Oct /2019 |
| Radiated              | 03CH02-HY     | Edward        | 23.5~24.3°C /<br>51.7~62.6% | 05/Aug/2019~<br>08/Oct/2019  |

## 1.4 Measurement Uncertainty

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

| Test Items                           | Uncertainty | Remark                   |
|--------------------------------------|-------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz)  | 3.54 dB     | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz)     | 1.6 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 4.3 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 3.9 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 3.5 dB      | Confidence levels of 95% |
| Conducted Emission                   | 1.3 dB      | Confidence levels of 95% |
| Temperature                          | 0.7 °C      | Confidence levels of 95% |
| Humidity                             | 4 %         | Confidence levels of 95% |

## 2 Test Configuration of EUT

### 2.1 Test Condition

| RF Conducted | Abbreviation | Remark |
|--------------|--------------|--------|
| TnomVnom     | Tnom         | 20°C   |
| -            | Vnom         | 120V   |

### 2.2 Test Channel Mode

| Test Software | DoS |
|---------------|-----|
|---------------|-----|

| Mode           | Power Setting |
|----------------|---------------|
| BT-LE(1Mbps)   | -             |
| 2402MHz        | 200           |
| 2440MHz        | 200           |
| 2480MHz        | 70            |
| BT-LE(2Mbps)   | -             |
| 2402MHz        | 200           |
| 2440MHz        | 200           |
| 2480MHz        | 70            |
| BT-LE(125kbps) | -             |
| 2402MHz        | 200           |
| 2440MHz        | 200           |
| 2480MHz        | 80            |
| BT-LE(500kbps) | -             |
| 2402MHz        | 200           |
| 2440MHz        | 200           |
| 2480MHz        | 50            |

## 2.3 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 |
| Operating Mode                                      | CTX                                                      |
| 1                                                   | PoE mode                                                 |

| 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                                                                                 |

| 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                                                                                                                                                                                                                                                 |                                                                                      |                                                                                       |
| 1                                                   | PoE mode                                                                                                                                                                                                                                            |                                                                                      |                                                                                       |
| Operating Mode > 1GHz                               | CTX                                                                                                                                                                                                                                                 |                                                                                      |                                                                                       |
| Orthogonal Planes of EUT                            | X Plane                                                                                                                                                                                                                                             | Y Plane                                                                              | Z Plane                                                                               |
|                                                     |                                                                                                                                                                  |  |  |
| Worst Planes of EUT                                 | V                                                                                                                                                                                                                                                   |                                                                                      |                                                                                       |

| The Worst Case Mode for Following Conformance Tests                                |                                                              |
|------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Tests Item                                                                         | Simultaneous Transmission Analysis                           |
| Operating Mode                                                                     | CTX                                                          |
| 1                                                                                  | WLAN 2.4GHz+ WLAN 5GHz+ Scanning Radio WLAN 2.4GHz+Bluetooth |
| 2                                                                                  | WLAN 2.4GHz+ WLAN 5GHz+ Scanning Radio WLAN 5GHz+Bluetooth   |
| Refer to Sporton Test Report No.: FA972312 for Co-location RF Exposure Evaluation. |                                                              |

## 2.4 Accessories and Support Equipment

| Accessories      |            |       |            |         |
|------------------|------------|-------|------------|---------|
| Mounting bracket | Brand Name | CISCO | Model Name | MR76-HW |

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

| Support Equipment – AC Conduction |             |             |              |        |
|-----------------------------------|-------------|-------------|--------------|--------|
| No.                               | Equipment   | Brand Name  | Model Name   | FCC ID |
| 1                                 | PoE         | PHIHONG     | POEA30U-1ATE | N/A    |
| 2                                 | Power Cable | CHING CHANG | N/A          | N/A    |
| 3                                 | LAN Cable   | Power sync  | CAT-6E-01    | N/A    |

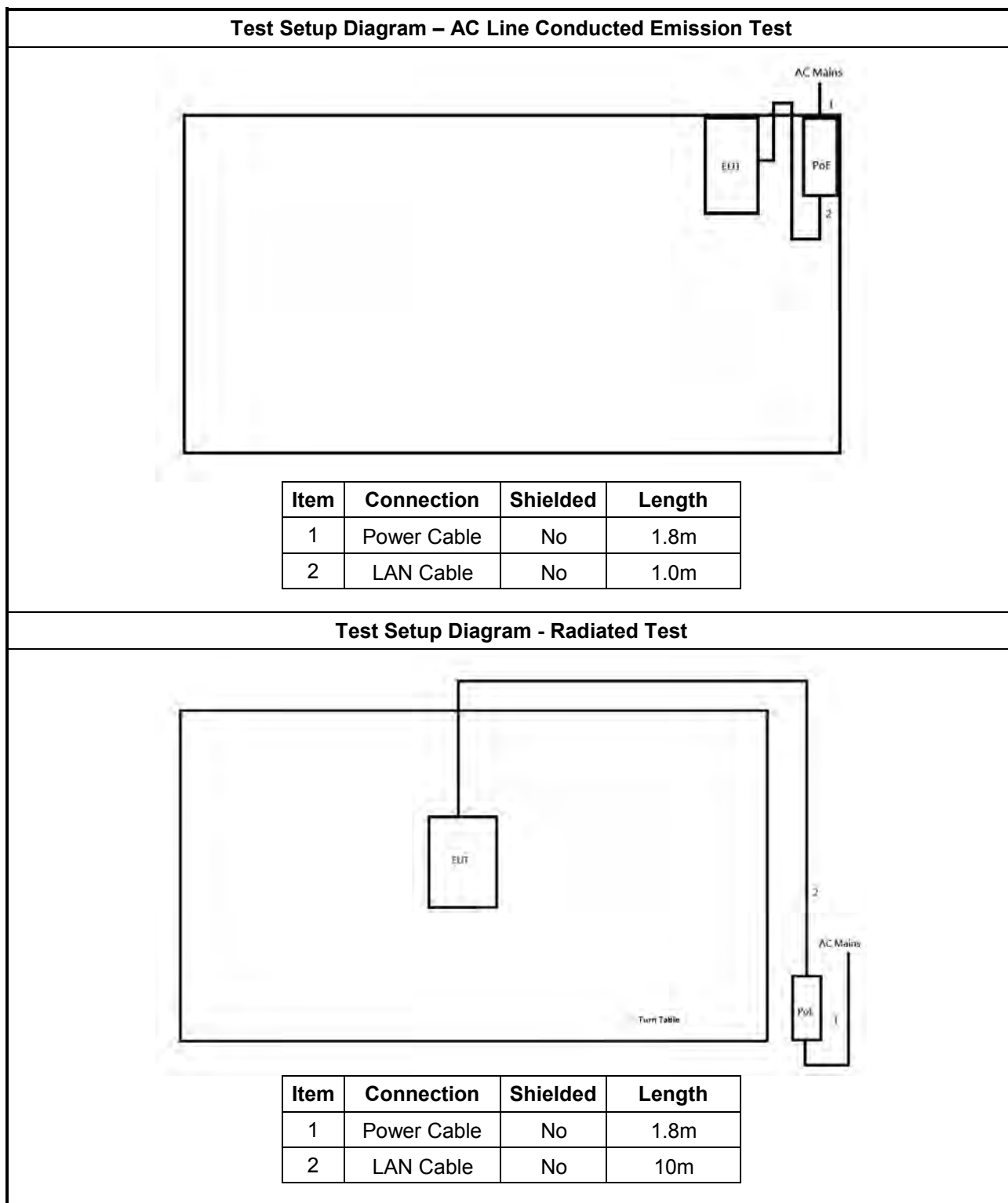
Note: Support equipment No.1 and 2 was provided by customer.

| Support Equipment – RF Conducted |                 |            |            |        |
|----------------------------------|-----------------|------------|------------|--------|
| No.                              | Equipment       | Brand Name | Model Name | FCC ID |
| 1                                | Notebook        | DELL       | E5410      | DoC    |
| 2                                | Adapter for NB  | DELL       | HA65NM130  | DoC    |
| 3                                | AC Power Source | G.W        | APS-9102   | N/A    |

| Support Equipment – Radiated Emission |                     |             |              |        |
|---------------------------------------|---------------------|-------------|--------------|--------|
| No.                                   | Equipment           | Brand Name  | Model Name   | FCC ID |
| 1                                     | LAN Cable           | Power sync  | CAT-6E-10    | N/A    |
| 2                                     | PoE(Remote)         | PHIHONG     | POEA30U-1ATE | N/A    |
| 3                                     | Power Cable(Remote) | CHING CHANG | N/A          | N/A    |
| 4                                     | LAN Cable(Remote)   | Power sync  | N/A          | N/A    |

Note: Support equipment No.3 was provided by customer.

## 2.5 Test Setup Diagram



### 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. |            |           |

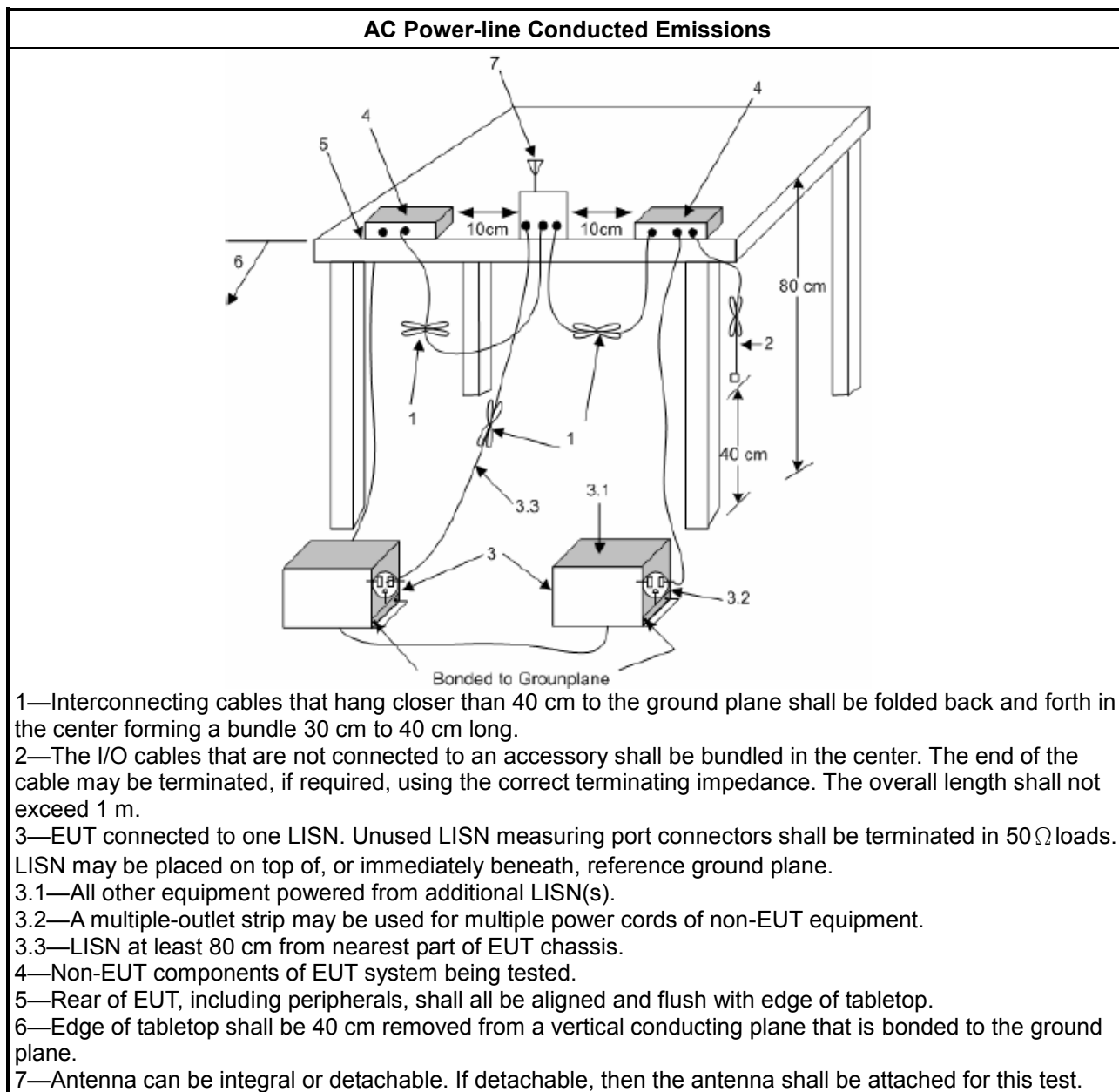
##### 3.1.2 Measuring Instruments

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 foray power-line conducted emissions. |

### 3.1.4 Test Setup



### 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                                 |                                |
|-----------------------------------------------------|--------------------------------|
| <b>Systems using digital modulation techniques:</b> |                                |
| ▪                                                   | 6 dB bandwidth $\geq$ 500 kHz. |

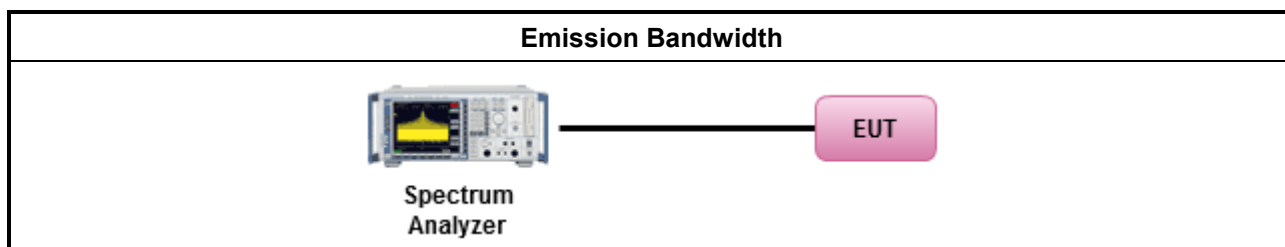
### 3.2.2 Measuring Instruments

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: |                                                                                  |
| <input checked="" type="checkbox"/>                                            | Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement. |
| <input type="checkbox"/>                                                       | Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.                     |
| <input type="checkbox"/>                                                       | Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.               |

### 3.2.4 Test Setup



### 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                                                                                                                              |                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>If <math>G_{TX} \leq 6</math> dBi, then <math>P_{Out} \leq 30</math> dBm (1 W)</li> </ul>                                                |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>Point-to-multipoint systems (P2M): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math> dBm</li> </ul>       |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>Point-to-point systems (P2P): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>          |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>Smart antenna system (SAS):</li> </ul>                                                                                                   |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>- Single beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>                         |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>- Overlap beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>                        |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>- Aggregate power on all beams: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3 + 8</math> dB dBm</li> </ul> |
| e.i.r.p. Power Limit:                                                                                                                                             |                                                                                                                                                                                 |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>2400-2483.5 MHz Band</li> </ul>                                                                                                          |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>Point-to-multipoint systems (P2M): <math>P_{eirp} \leq 36</math> dBm (4 W)</li> </ul>                                                    |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>Point-to-point systems (P2P): <math>P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])</math> dBm</li> </ul>                               |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>Smart antenna system (SAS)</li> </ul>                                                                                                    |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>- Single beam: <math>P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})</math> dBm</li> </ul>                                                |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>- Overlap beam: <math>P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})</math> dBm</li> </ul>                                               |
|                                                                                                                                                                   | <ul style="list-style-type: none"> <li>- Aggregate power on all beams: <math>P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])</math> dBm</li> </ul>                         |
| $P_{Out}$ = maximum peak conducted output power or maximum conducted output power in dBm,<br>$G_{TX}$ = the maximum transmitting antenna directional gain in dBi. |                                                                                                                                                                                 |

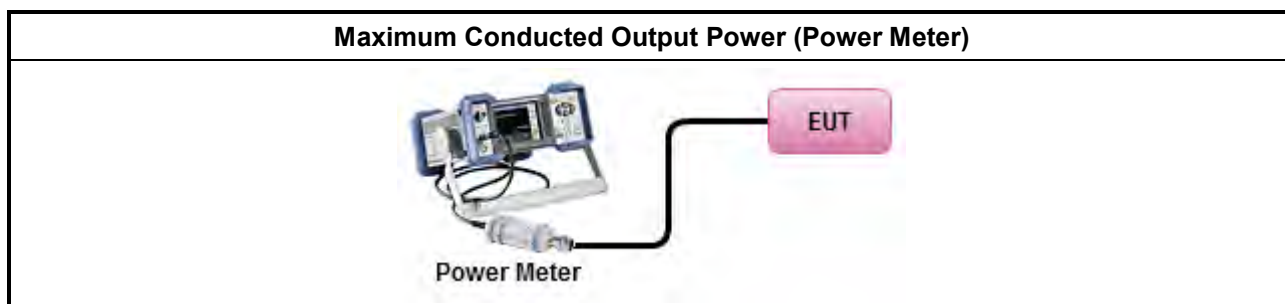
#### 3.3.2 Measuring Instruments

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

### 3.3.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Maximum Peak Conducted Output Power</li> </ul>                                                                                                                                                                                                                                                                              |                                                                                             |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                           | Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.             |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                           | Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method. |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                           | Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.             |
| <ul style="list-style-type: none"> <li>Maximum Average Conducted Output Power</li> </ul>                                                                                                                                                                                                                                                                           |                                                                                             |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                           | Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.    |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                | Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.          |
| <ul style="list-style-type: none"> <li>For conducted measurement.</li> </ul>                                                                                                                                                                                                                                                                                       |                                                                                             |
| <ul style="list-style-type: none"> <li>If the EUT supports multiple transmit chains using options given below:<br/>Refer as 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.</li> </ul> |                                                                                             |
| <ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP calculation could be following as methods:<br/> <math>P_{total} = P_1 + P_2 + \dots + P_n</math><br/>                     (calculated in linear unit [mW] and transfer to log unit [dBm])<br/> <math>EIRP_{total} = P_{total} + DG</math> </li> </ul>                                     |                                                                                             |

### 3.3.4 Test Setup



### 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) $\leq 8$ dBm/3kHz |

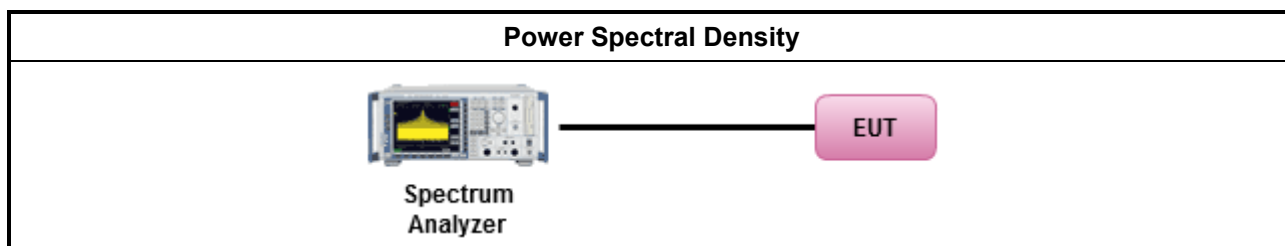
#### 3.4.2 Measuring Instruments

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).                                                                                                         |
| <input checked="" type="checkbox"/> | Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Method PKPSD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ▪                                   | For conducted measurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ▪                                   | If The EUT supports multiple transmit chains using options given below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ▪                                   | Measure and sum the spectra across the outputs. Refer as 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. |

#### 3.4.4 Test Setup



#### 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 (dB) |
| Peak output power procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20         |
| Average output power procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30         |
| <p>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 level.</p> <p>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 level.</p> |            |

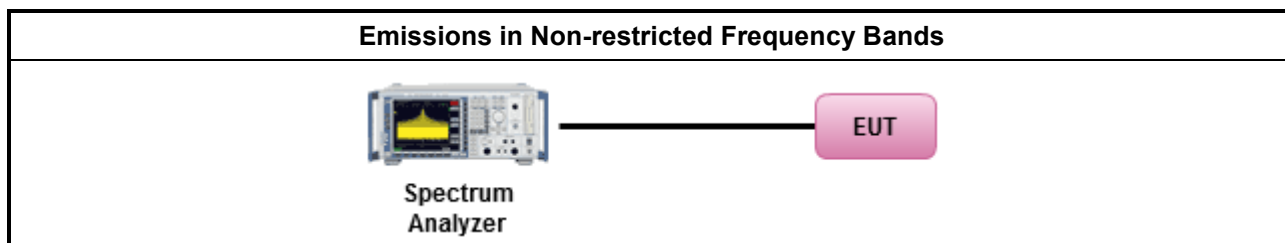
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

| Test Method                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.</li> </ul> |

#### 3.5.4 Test Setup



#### 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 below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

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

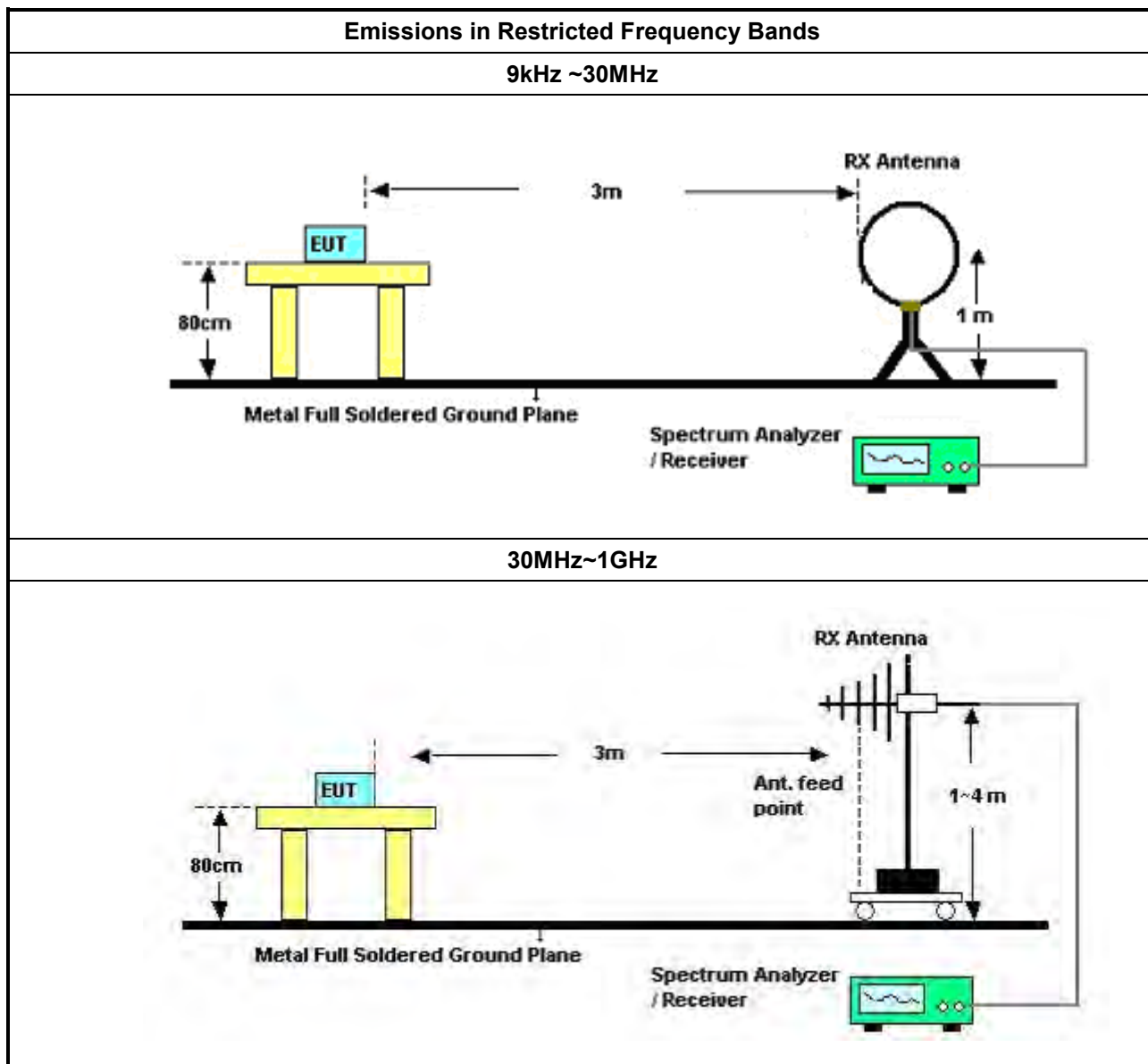
#### 3.6.2 Measuring Instruments

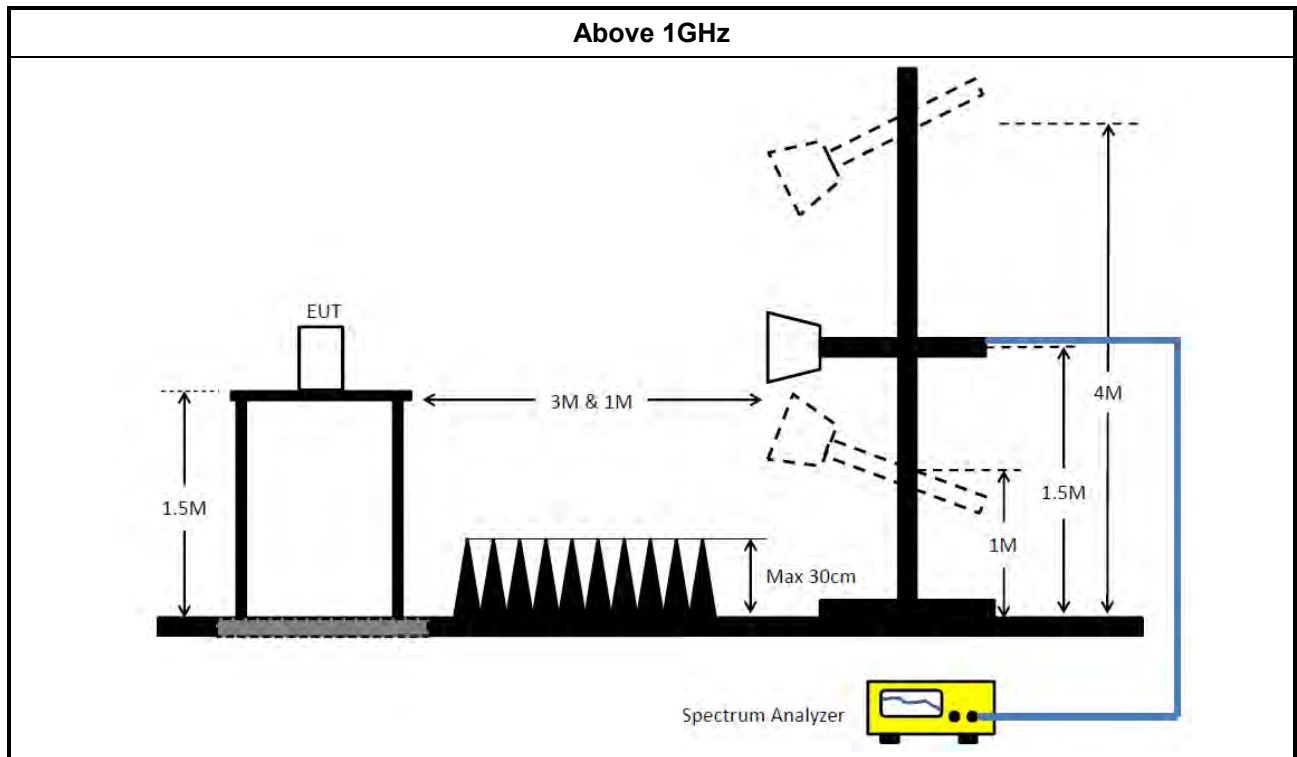
Refer a test equipment and calibration data table in this test report.

### 3.6.3 Test Procedures

| Test Method                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>                                                                        |                                                                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul> |                                                                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>                                                                                   |                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.</li> </ul>                                                                                                                         |
| <ul style="list-style-type: none"> <li>For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>                                                                                  |                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074 clause 8.7.1, 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.</li> </ul> |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.</li> </ul>                                                                                                  |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.</li> </ul>                                                                             |
| <ul style="list-style-type: none"> <li>Use the following spectrum analyzer settings:</li> </ul>                                                                                                                             |                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Set RBW=100 kHz for <math>f &lt; 1</math> GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> </ul>                                                                                          |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Set RBW = 1 MHz, VBW= 3MHz for <math>f \geq 1</math> GHz for peak measurement.<br/>For average measurement, refer as 1.1.4.</li> </ul>                                                                                    |
| <ul style="list-style-type: none"> <li>KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.</li> </ul>                                                                                                   |                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.</li> </ul>          |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.</li> </ul>                                                                             |

### 3.6.4 Test Setup





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

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

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

Refer as Appendix F

## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

| Instrument                        | Manufacturer | Model No.   | Serial No. | Spec.               | Calibration Date | Calibration Due Date |
|-----------------------------------|--------------|-------------|------------|---------------------|------------------|----------------------|
| EMC Receiver                      | R&S          | ESR3        | 102052     | 9kHz ~ 3.6GHz       | 09/Apr/2019      | 08/Apr/2020          |
| LISN                              | R&S          | ENV216      | 101295     | 9kHz ~ 30MHz        | 08/Nov/2018      | 07/Nov/2019          |
| RF Cable-CON                      | MTJ          | RG142       | CB002-CO   | 9kHz ~ 200MHz       | 17/Sep/2018      | 16/Sep/2019          |
| RF Cable-CON                      | MTJ          | RG142       | CB002-CO   | 9kHz ~ 200MHz       | 12/Sep/2019      | 11/Sep/2020          |
| AC POWER                          | APC          | AFC-11005G  | F310050055 | 47Hz~63Hz<br>5~300V | NCR              | NCR                  |
| Impuls Begrenzer<br>Pulse Limiter | SCHWARZBECK  | VTSD 9561-F | 9561-F041  | 9 kHz ~ 30 MHz      | 12/Oct/2018      | 11/Oct/2019          |

**NCR : Non-Calibration Require**

### Instrument for Conducted Test

| Instrument                  | Manufacturer | Model No. | Serial No.    | Spec.          | Calibration Date | Calibration Due Date |
|-----------------------------|--------------|-----------|---------------|----------------|------------------|----------------------|
| Spectrum Analyzer           | R&S          | FSV 40    | 101013        | 10Hz~40GHz     | 13/Mar/2019      | 12/Mar/2020          |
| Power Sensor                | Anritsu      | MA2411B   | 1339407       | 300MHz ~ 40GHz | 17/Nov/2018      | 16/Nov/2019          |
| Power Meter                 | Anritsu      | ML2495A   | 1517010       | 300MHz ~ 40GHz | 17/Nov/2018      | 16/Nov/2019          |
| Cable 0.2m                  | HUBER        | MY10710/4 | RF Cable - 01 | 30MHz ~18G     | 10/Jan/2019      | 09/Jan/2020          |
| Cable 0.2m                  | HUBER        | MY10711/4 | RF Cable - 02 | 30MHz ~18G     | 10/Jan/2019      | 09/Jan/2020          |
| Cable 0.5m                  | HUBER        | MY39470/4 | RF Cable - 29 | 30MHz ~18G     | 10/Jan/2019      | 09/Jan/2020          |
| SMB100A Signal<br>Generator | R&S          | SMB100A03 | 181147        | 100kHz~40GHz   | 12/Nov/2018      | 10/Nov/2020          |

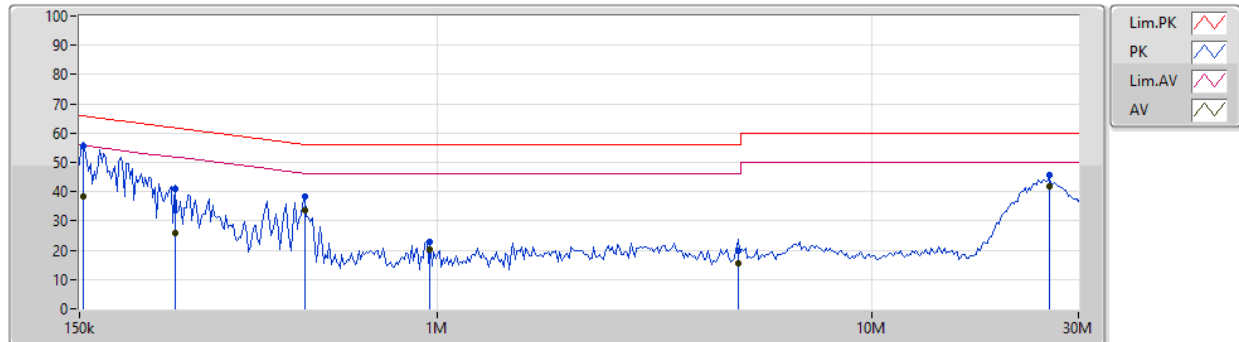
**Instrument for Radiated Test**

| Instrument                       | Manufacturer    | Model No.               | Serial No.               | Spec.              | Calibration Date | Calibration Due Date |
|----------------------------------|-----------------|-------------------------|--------------------------|--------------------|------------------|----------------------|
| 3m Semi Anechoic Chamber         | SIDT FRANKONIA  | SAC-3M                  | 03CH02-HY                | 30MHz ~ 1GHz<br>3m | 19/Oct/2018      | 18/Oct/2019          |
| 3m Semi Anechoic Chamber         | SIDT FRANKONIA  | SAC-3M                  | 03CH02-HY                | 1GHz ~ 18GHz<br>3m | 17/Oct/2018      | 16/Oct/2019          |
| Amplifier                        | Agilent         | 8447D                   | 2944A11149               | 100kHz ~ 1.3GHz    | 02/Jul/2019      | 01/Jul/2020          |
| Microwave Preamplifier           | Agilent         | 8449B                   | 3008A02373               | 1GHz ~ 26.5GHz     | 02/Jun/2019      | 01/Jun/2020          |
| Spectrum Analyzer                | Rohde & Schwarz | FSP40                   | 100593                   | 9KHz - 40GHz       | 27/Dec/2018      | 26/Dec/2019          |
| EMI Test Receiver                | R&S             | ESR3                    | 102052                   | 9kHz ~ 3.6GHz      | 09/Apr/2019      | 08/Apr/2020          |
| RF Cable-R03m                    | Jye Bao         | RG142                   | CB017                    | 9kHz ~ 1GHz        | 26/Mar/2019      | 25/Mar/2020          |
| RF Cable-high 6m                 | SUHNER          | SUCOFLEX104             | 10567868 /<br>SN805193/4 | 1GHz~40GHz         | 09/Apr/2019      | 08/Apr/2020          |
| RF Cable-high 7m                 | SUHNER          | SUCOFLEX104             | 10567868 /<br>SN805192/4 | 1GHz~40GHz         | 09/Apr/2019      | 08/Apr/2020          |
| Bilog Antenna & 5dB Attenuator   | SCHAFFNER / MTJ | CBL6112B /<br>MTJ6102-0 | 2722 /<br>MTJ61202-06    | 30MHz ~ 1GHz       | 06/Jul/2019      | 05/Jul/2020          |
| Broadband Horn Antenna           | SCHWARZBECK     | BBHA 9170               | BBHA<br>9170154          | 18GHz ~ 40GHz      | 05/Feb/2019      | 04/Feb/2020          |
| Preamplifier                     | MITEQ           | TTA1840-35-HG           | 1864481                  | 18GHz ~ 40GHz      | 24/Aug/2018      | 23/Aug/2019          |
| Preamplifier                     | MITEQ           | TTA1840-35-HG           | 1864481                  | 18GHz ~ 40GHz      | 05/Aug/2019      | 04/Aug/2020          |
| Loop Antenna                     | TESEQ           | HLA 6120                | 31244                    | 9k-30MHz           | 15/Mar/2019      | 14/Mar/2020          |
| Double Ridged Guide Horn Antenna | SCHWARZBECK     | BBHA 9120 D             | BBHA 9120 D<br>01543     | 1GHz ~ 18GHz       | 03/Jun/2019      | 02/Jun/2020          |

## AC Power-line Conducted Emissions Result

|                    |          |             |         |
|--------------------|----------|-------------|---------|
| Operating Mode     | 1        | Power Phase | Neutral |
| Operating Function | PoE mode |             |         |

15/08/2019

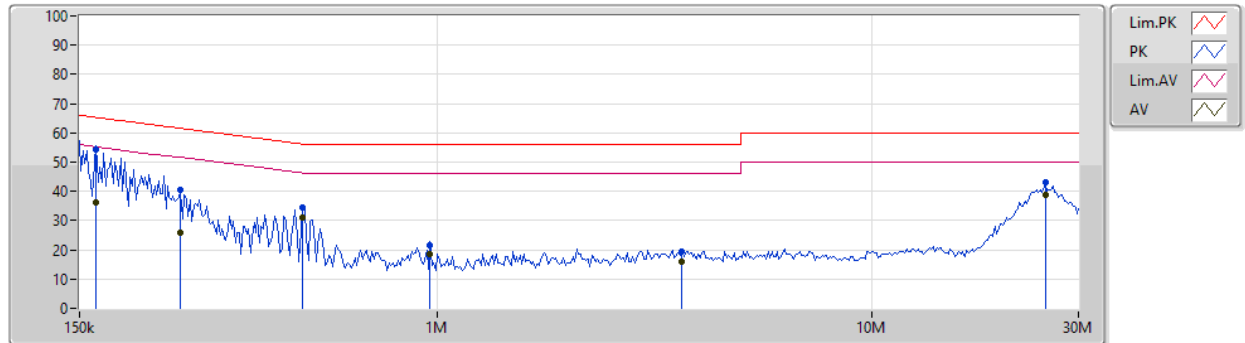


| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|
| QP   | 153.015k     | 55.81           | 65.83           | -10.02         | 19.48          | Neutral   | -       | 36.33         | 9.60         | 0.01       | 9.87       |  |  |  |
| AV   | 153.015k     | 38.17           | 55.83           | -17.66         | 19.48          | Neutral   | -       | 18.69         | 9.60         | 0.01       | 9.87       |  |  |  |
| QP   | 249.162k     | 40.85           | 61.79           | -20.94         | 19.47          | Neutral   | -       | 21.38         | 9.59         | 0.01       | 9.87       |  |  |  |
| AV   | 249.162k     | 25.89           | 51.79           | -25.90         | 19.47          | Neutral   | -       | 6.42          | 9.59         | 0.01       | 9.87       |  |  |  |
| QP   | 495.058k     | 38.27           | 56.08           | -17.81         | 19.48          | Neutral   | -       | 18.79         | 9.59         | 0.01       | 9.88       |  |  |  |
| AV   | 495.058k     | 33.80           | 46.08           | -12.28         | 19.48          | Neutral   | -       | 14.32         | 9.59         | 0.01       | 9.88       |  |  |  |
| QP   | 964.247k     | 22.93           | 56.00           | -33.07         | 19.49          | Neutral   | -       | 3.44          | 9.59         | 0.02       | 9.88       |  |  |  |
| AV   | 964.247k     | 20.43           | 46.00           | -25.57         | 19.49          | Neutral   | -       | 0.94          | 9.59         | 0.02       | 9.88       |  |  |  |
| QP   | 4.931M       | 20.03           | 56.00           | -35.97         | 19.56          | Neutral   | -       | 0.47          | 9.62         | 0.05       | 9.89       |  |  |  |
| AV   | 4.931M       | 15.69           | 46.00           | -30.31         | 19.56          | Neutral   | -       | -3.87         | 9.62         | 0.05       | 9.89       |  |  |  |
| QP   | 25.718M      | 45.87           | 60.00           | -14.13         | 19.69          | Neutral   | -       | 26.18         | 9.67         | 0.12       | 9.90       |  |  |  |
| AV   | 25.718M      | 41.63           | 50.00           | -8.37          | 19.69          | Neutral   | "Worst" | 21.94         | 9.67         | 0.12       | 9.90       |  |  |  |

### AC Power-line Conducted Emissions Result

|                    |          |             |      |
|--------------------|----------|-------------|------|
| Operating Mode     | 1        | Power Phase | Line |
| Operating Function | PoE mode |             |      |

15/08/2019



| Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Factor (dB) | Condition | Comment | Raw (dBuV) | LISN (dB) | CL (dB) | AT (dB) |  |  |  |
|------|-----------|--------------|--------------|-------------|-------------|-----------|---------|------------|-----------|---------|---------|--|--|--|
| QP   | 164.053k  | 54.52        | 65.25        | -10.73      | 19.48       | Line      | "Worst" | 35.04      | 9.60      | 0.01    | 9.87    |  |  |  |
| AV   | 164.053k  | 36.11        | 55.25        | -19.14      | 19.48       | Line      | -       | 16.63      | 9.60      | 0.01    | 9.87    |  |  |  |
| QP   | 256.712k  | 40.32        | 61.54        | -21.22      | 19.48       | Line      | -       | 20.84      | 9.60      | 0.01    | 9.87    |  |  |  |
| AV   | 256.712k  | 25.86        | 51.54        | -25.68      | 19.48       | Line      | -       | 6.38       | 9.60      | 0.01    | 9.87    |  |  |  |
| QP   | 490.156k  | 34.40        | 56.17        | -21.77      | 19.48       | Line      | -       | 14.92      | 9.59      | 0.01    | 9.88    |  |  |  |
| AV   | 490.156k  | 31.20        | 46.17        | -14.97      | 19.48       | Line      | -       | 11.72      | 9.59      | 0.01    | 9.88    |  |  |  |
| QP   | 964.247k  | 21.46        | 56.00        | -34.54      | 19.50       | Line      | -       | 1.96       | 9.60      | 0.02    | 9.88    |  |  |  |
| AV   | 964.247k  | 18.50        | 46.00        | -27.50      | 19.50       | Line      | -       | -1.00      | 9.60      | 0.02    | 9.88    |  |  |  |
| QP   | 3.658M    | 19.40        | 56.00        | -36.60      | 19.56       | Line      | -       | -0.16      | 9.63      | 0.04    | 9.89    |  |  |  |
| AV   | 3.658M    | 16.04        | 46.00        | -29.96      | 19.56       | Line      | -       | -3.52      | 9.63      | 0.04    | 9.89    |  |  |  |
| QP   | 25.212M   | 43.27        | 60.00        | -16.73      | 19.59       | Line      | -       | 23.68      | 9.57      | 0.12    | 9.90    |  |  |  |
| AV   | 25.212M   | 38.98        | 50.00        | -11.02      | 19.59       | Line      | -       | 19.39      | 9.57      | 0.12    | 9.90    |  |  |  |

**Summary**

| Mode           | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|----------------|------------------|-----------------|----------|------------------|-----------------|
| 2.4-2.4835GHz  | -                | -               | -        | -                | -               |
| BT-LE(1Mbps)   | 511.25k          | 1.022M          | 1M02F1D  | 503.75k          | 1.017M          |
| BT-LE(2Mbps)   | 855k             | 2.054M          | 2M05F1D  | 850k             | 2.041M          |
| BT-LE(125kbps) | 617.5k           | 1.039M          | 1M04F1D  | 612.5k           | 1.032M          |
| BT-LE(500kbps) | 652.5k           | 1.017M          | 1M02F1D  | 650k             | 1.014M          |

**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;

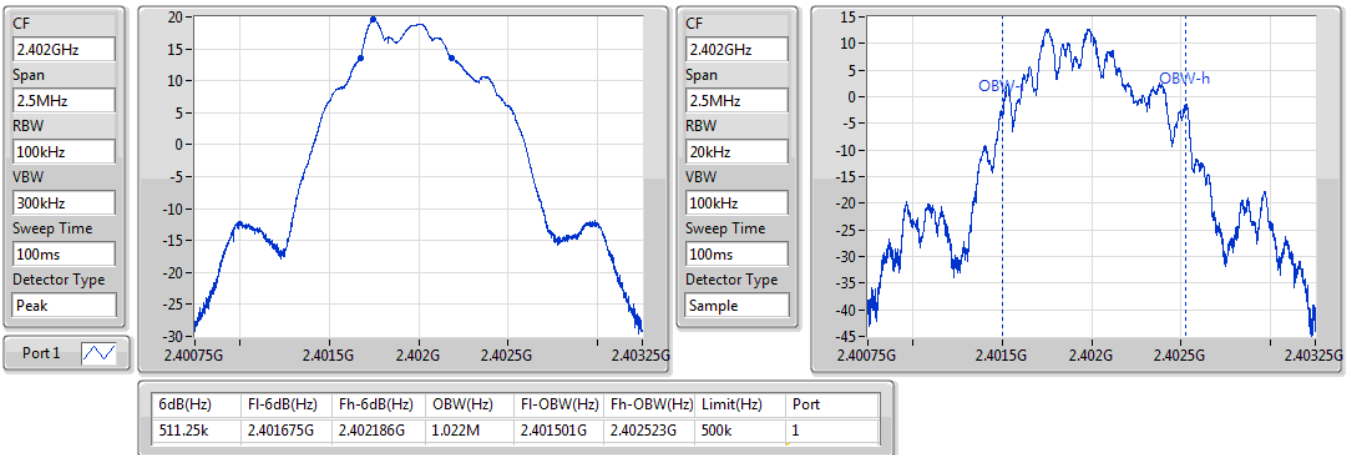
**Result**

| Mode           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) |
|----------------|--------|---------------|---------------------|--------------------|
| BT-LE(1Mbps)   | -      | -             | -                   | -                  |
| 2402MHz        | Pass   | 500k          | 511.25k             | 1.022M             |
| 2440MHz        | Pass   | 500k          | 506.25k             | 1.022M             |
| 2480MHz        | Pass   | 500k          | 503.75k             | 1.017M             |
| BT-LE(2Mbps)   | -      | -             | -                   | -                  |
| 2402MHz        | Pass   | 500k          | 855k                | 2.044M             |
| 2440MHz        | Pass   | 500k          | 850k                | 2.041M             |
| 2480MHz        | Pass   | 500k          | 855k                | 2.054M             |
| BT-LE(125kbps) | -      | -             | -                   | -                  |
| 2402MHz        | Pass   | 500k          | 617.5k              | 1.039M             |
| 2440MHz        | Pass   | 500k          | 615k                | 1.034M             |
| 2480MHz        | Pass   | 500k          | 612.5k              | 1.032M             |
| BT-LE(500kbps) | -      | -             | -                   | -                  |
| 2402MHz        | Pass   | 500k          | 652.5k              | 1.017M             |
| 2440MHz        | Pass   | 500k          | 652.5k              | 1.014M             |
| 2480MHz        | Pass   | 500k          | 650k                | 1.017M             |

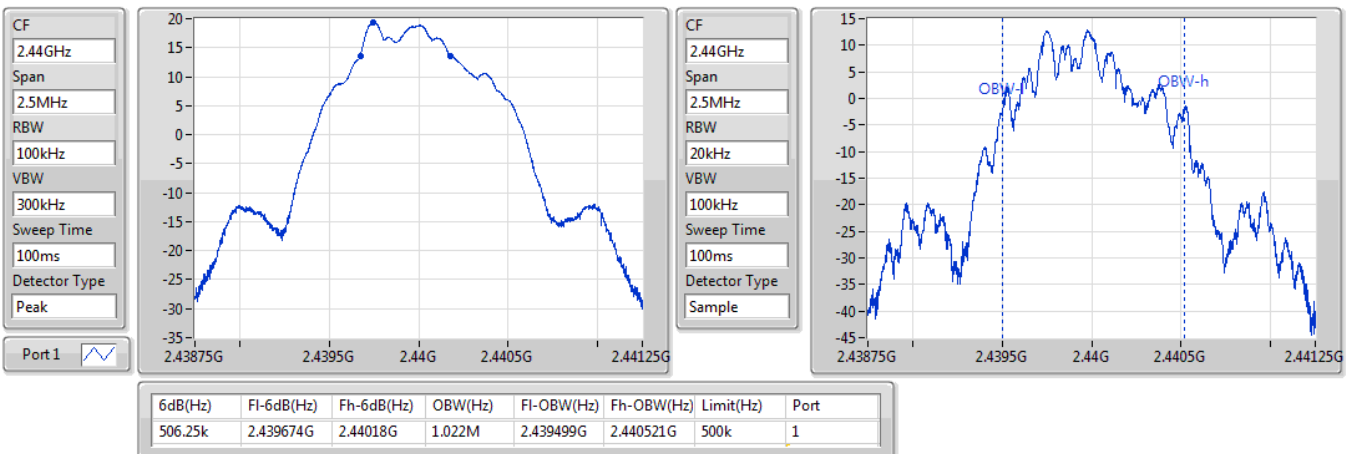
**Port X-N dB** = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

**BT-LE(1Mbps)**
**2402MHz**
**EBW**

10/08/2019

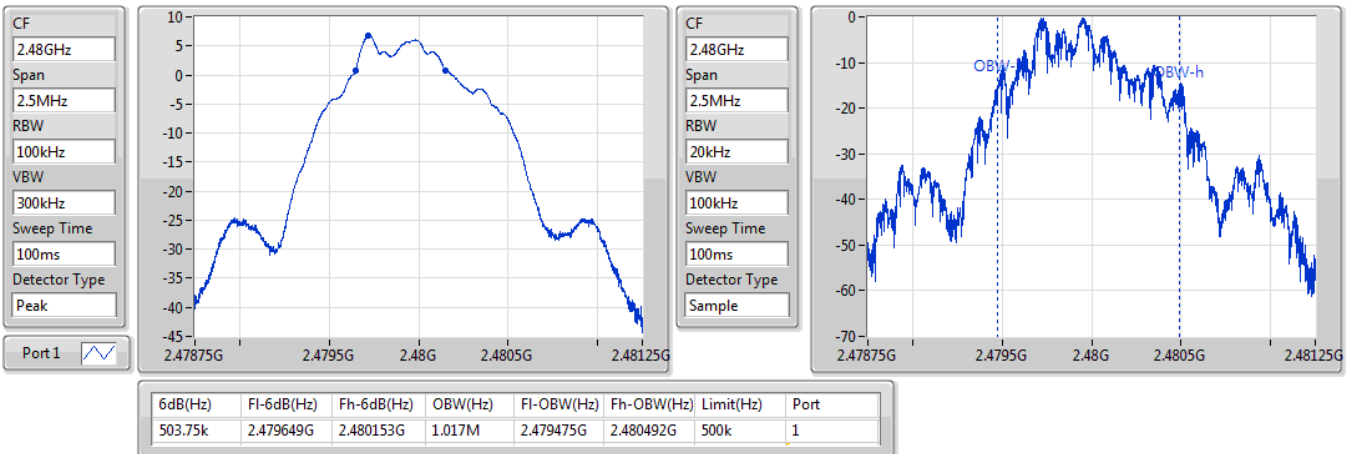

**BT-LE(1Mbps)**
**2440MHz**
**EBW**

10/08/2019

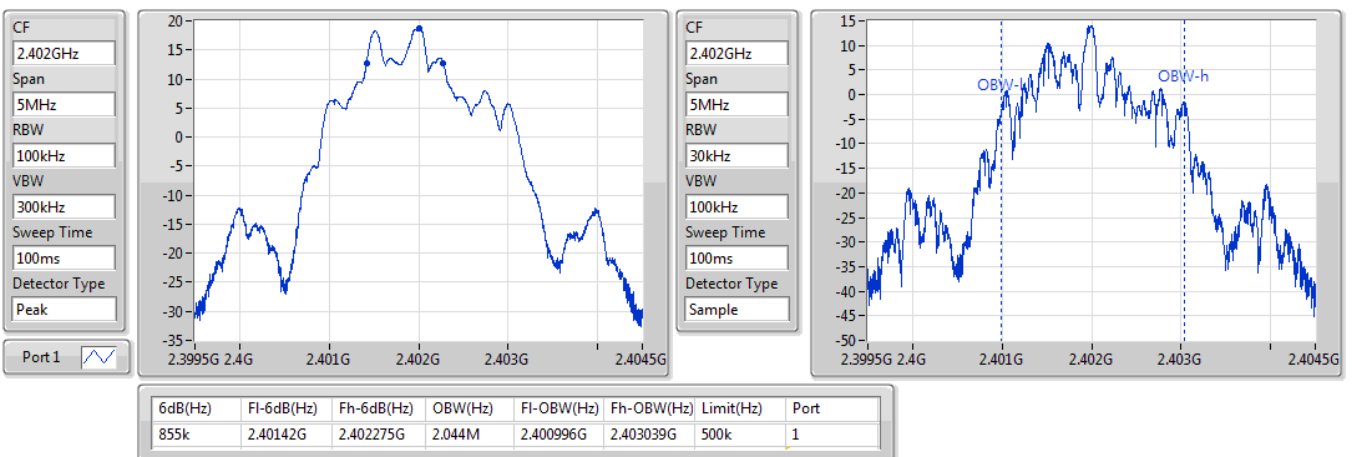


**BT-LE(1Mbps)**
**EBW**
**2480MHz**

29/10/2019

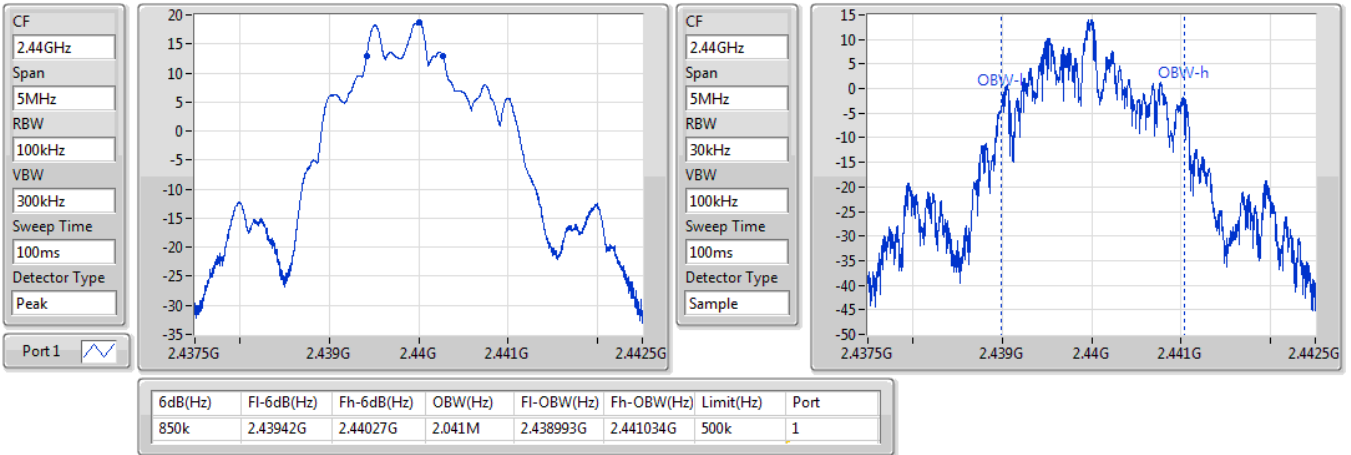

**BT-LE(2Mbps)**
**EBW**
**2402MHz**

10/08/2019

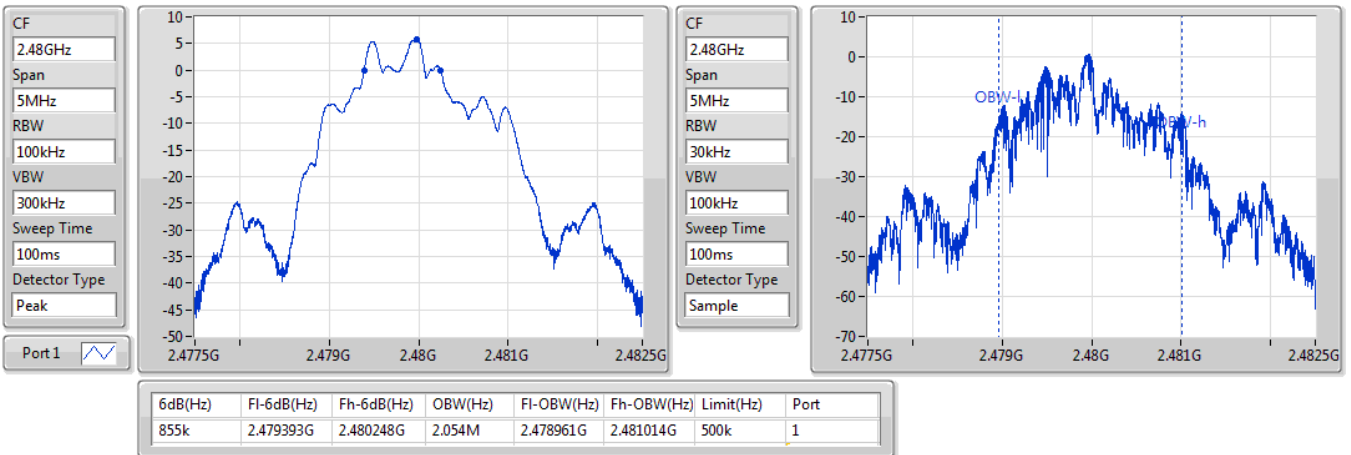


**BT-LE(2Mbps)**
**2440MHz**

10/08/2019

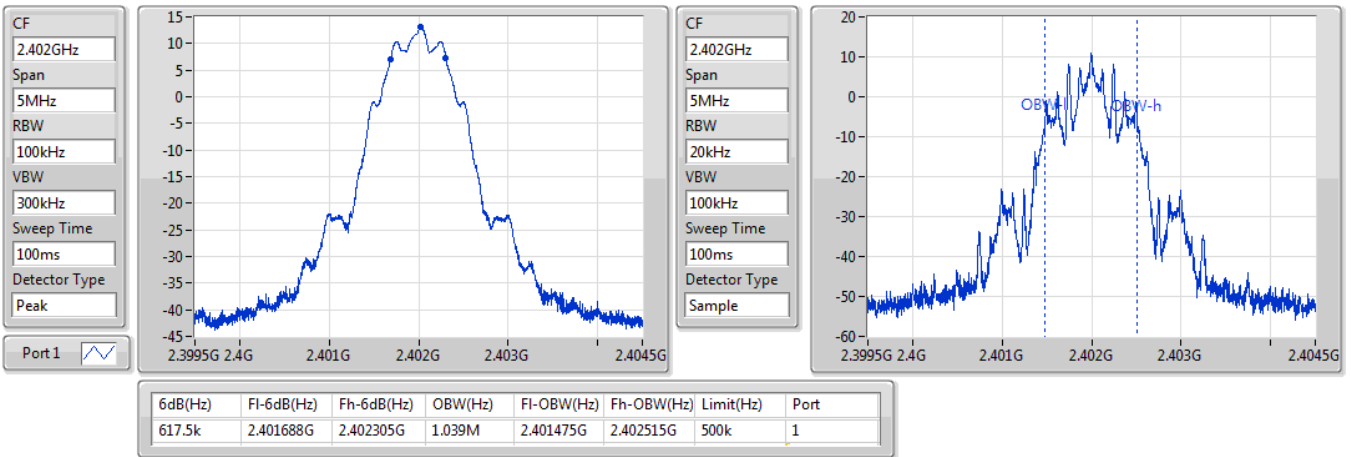

**BT-LE(2Mbps)**
**2480MHz**

29/10/2019

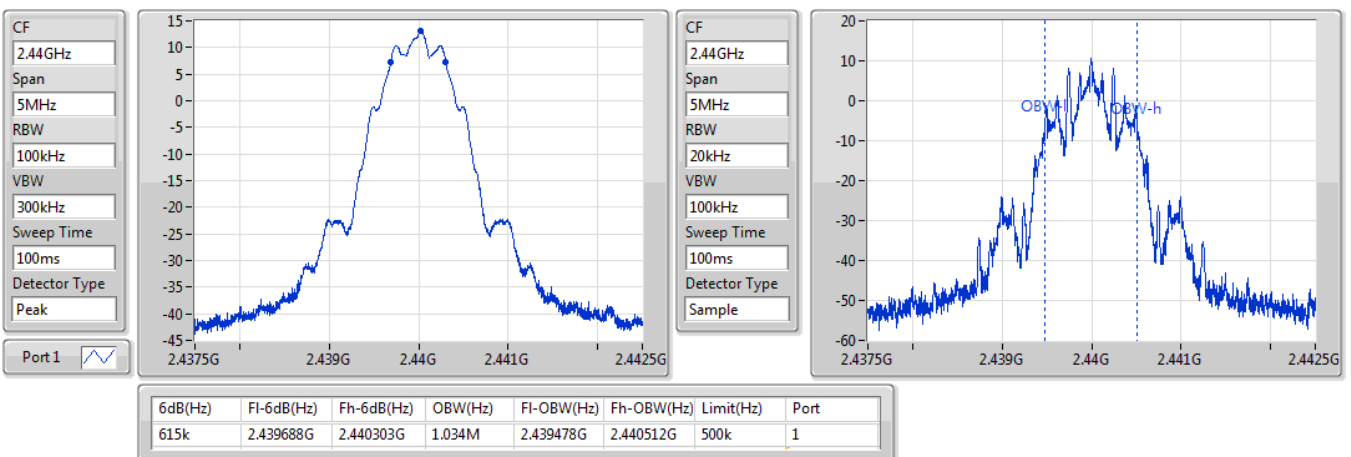


**BT-LE(125kbps)**
**EBW**
**2402MHz**

10/08/2019

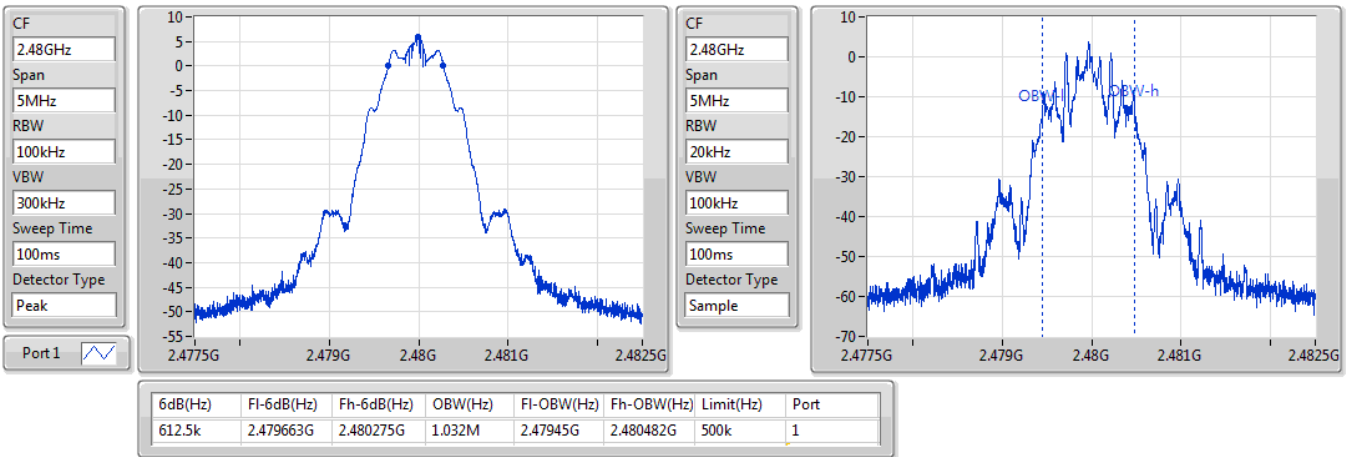

**BT-LE(125kbps)**
**EBW**
**2440MHz**

10/08/2019

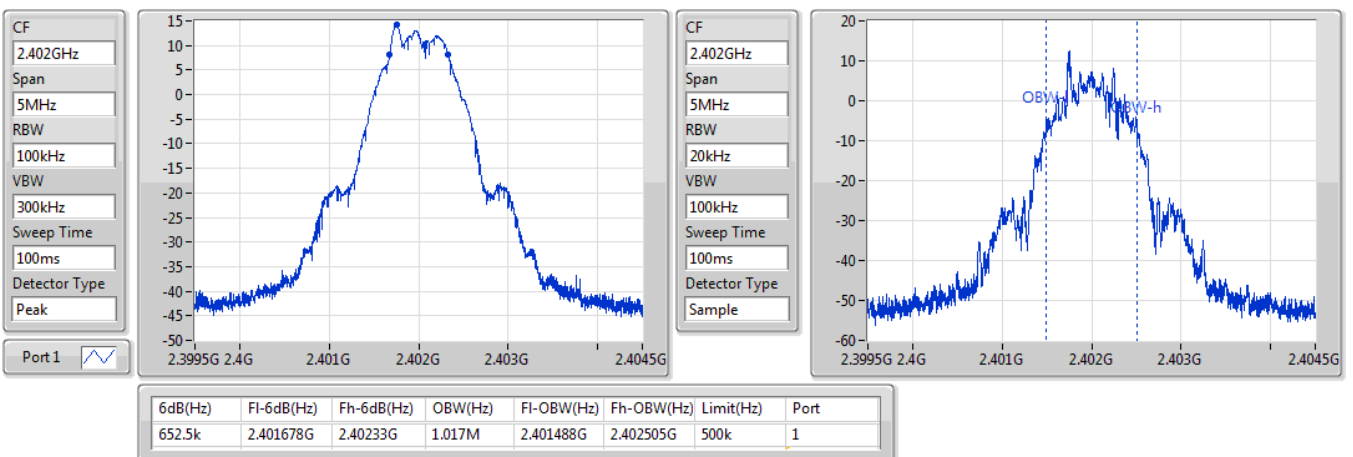


**BT-LE(125kbps)**
**EBW**
**2480MHz**

29/10/2019

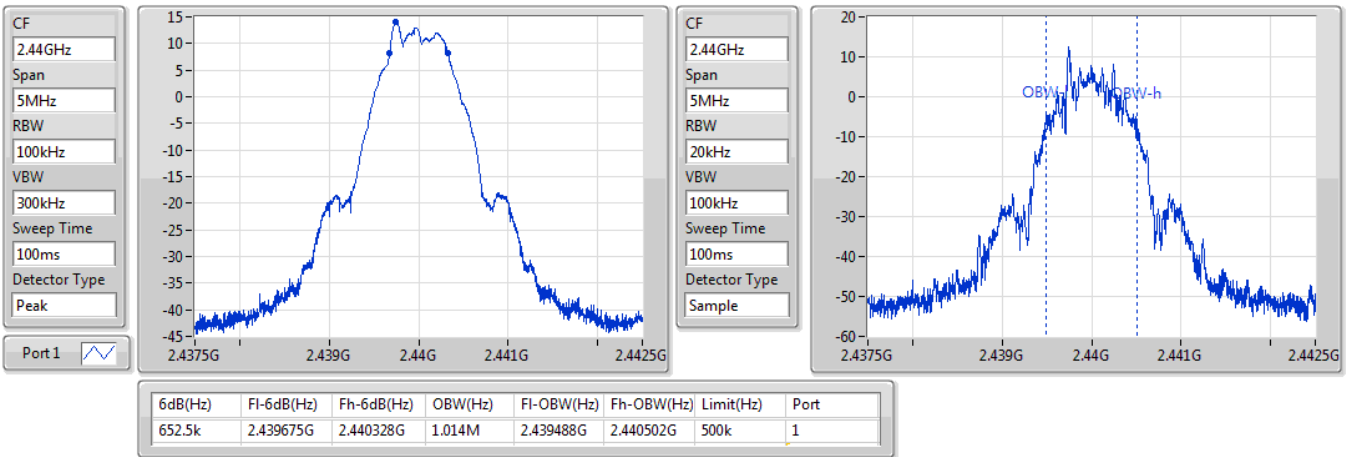

**BT-LE(500kbps)**
**EBW**
**2402MHz**

10/08/2019

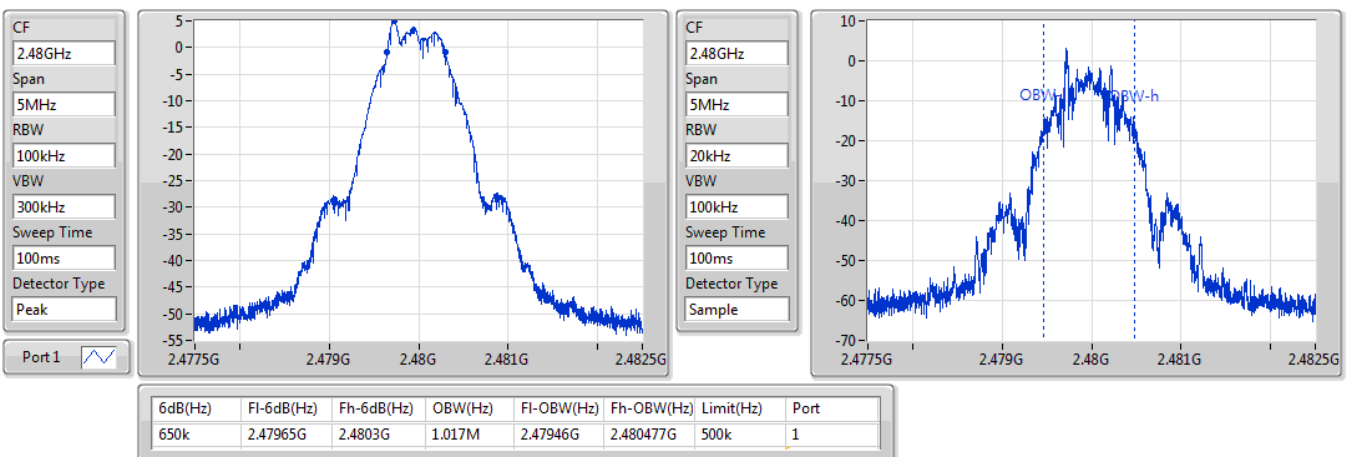


**BT-LE(500kbps)**
**EBW**
**2440MHz**

10/08/2019


**BT-LE(500kbps)**
**EBW**
**2480MHz**

29/10/2019





**Summary**

| Mode           | Power<br>(dBm) | Power<br>(W) |
|----------------|----------------|--------------|
| 2.4-2.4835GHz  | -              | -            |
| BT-LE(1Mbps)   | 19.22          | 0.08356      |
| BT-LE(2Mbps)   | 19.02          | 0.07980      |
| BT-LE(125kbps) | 14.41          | 0.02761      |
| BT-LE(500kbps) | 14.43          | 0.02773      |

## Result

| Mode           | Result | Gain<br>(dBi) | Power<br>(dBm) | Power Limit<br>(dBm) |
|----------------|--------|---------------|----------------|----------------------|
| BT-LE(1Mbps)   | -      | -             | -              | -                    |
| 2402MHz        | Pass   | 4.70          | 19.22          | 30.00                |
| 2440MHz        | Pass   | 4.70          | 18.85          | 30.00                |
| 2480MHz        | Pass   | 4.70          | 6.41           | 30.00                |
| BT-LE(2Mbps)   | -      | -             | -              | -                    |
| 2402MHz        | Pass   | 4.70          | 19.02          | 30.00                |
| 2440MHz        | Pass   | 4.70          | 18.56          | 30.00                |
| 2480MHz        | Pass   | 4.70          | 6.26           | 30.00                |
| BT-LE(125kbps) | -      | -             | -              | -                    |
| 2402MHz        | Pass   | 4.70          | 14.41          | 30.00                |
| 2440MHz        | Pass   | 4.70          | 14.15          | 30.00                |
| 2480MHz        | Pass   | 4.70          | 6.94           | 30.00                |
| BT-LE(500kbps) | -      | -             | -              | -                    |
| 2402MHz        | Pass   | 4.70          | 14.43          | 30.00                |
| 2440MHz        | Pass   | 4.70          | 14.21          | 30.00                |
| 2480MHz        | Pass   | 4.70          | 4.90           | 30.00                |

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



Summary

| Mode           | PD<br>(dBm/RBW) |
|----------------|-----------------|
| 2.4-2.4835GHz  | -               |
| BT-LE(1Mbps)   | 2.65            |
| BT-LE(2Mbps)   | 0.68            |
| BT-LE(125kbps) | 7.99            |
| BT-LE(500kbps) | 7.94            |

RBW=3 kHz.

**Result**

| Mode           | Result | Gain<br>(dBi) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|----------------|--------|---------------|-----------------|-----------------------|
| BT-LE(1Mbps)   | -      | -             | -               | -                     |
| 2402MHz        | Pass   | 4.70          | 2.65            | 8.00                  |
| 2440MHz        | Pass   | 4.70          | 2.62            | 8.00                  |
| 2480MHz        | Pass   | 4.70          | -10.48          | 8.00                  |
| BT-LE(2Mbps)   | -      | -             | -               | -                     |
| 2402MHz        | Pass   | 4.70          | 0.68            | 8.00                  |
| 2440MHz        | Pass   | 4.70          | 0.68            | 8.00                  |
| 2480MHz        | Pass   | 4.70          | -12.52          | 8.00                  |
| BT-LE(125kbps) | -      | -             | -               | -                     |
| 2402MHz        | Pass   | 4.70          | 7.99            | 8.00                  |
| 2440MHz        | Pass   | 4.70          | 7.97            | 8.00                  |
| 2480MHz        | Pass   | 4.70          | 0.66            | 8.00                  |
| BT-LE(500kbps) | -      | -             | -               | -                     |
| 2402MHz        | Pass   | 4.70          | 7.94            | 8.00                  |
| 2440MHz        | Pass   | 4.70          | 7.71            | 8.00                  |
| 2480MHz        | Pass   | 4.70          | -1.45           | 8.00                  |

**DG** = Directional Gain; RBW=3 kHz;

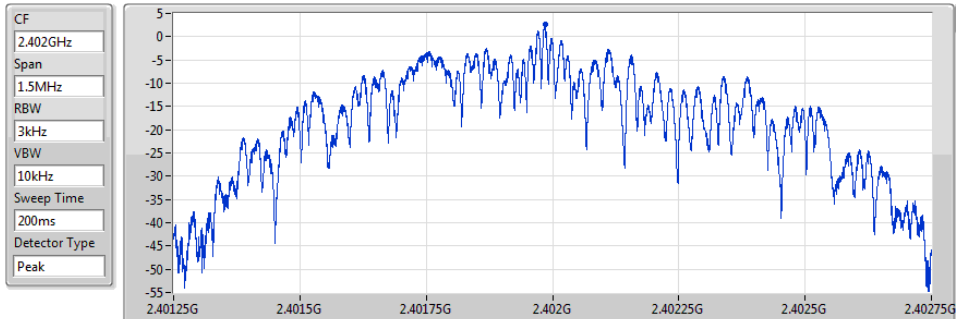
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

### BT-LE(1Mbps)

### PSD

2402MHz

10/08/2019



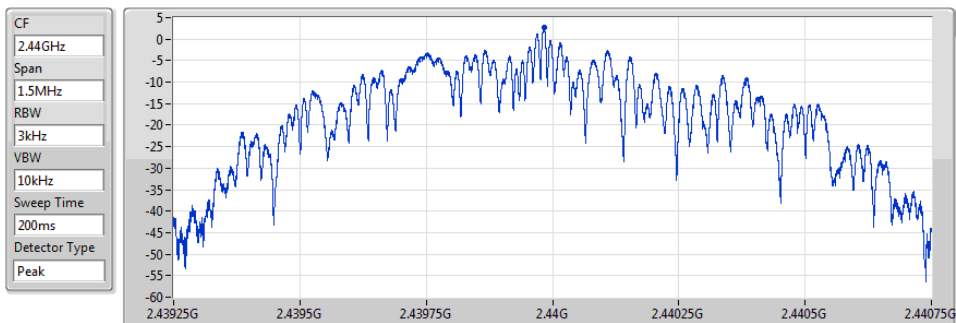
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 2.65      | 2.65      | 2.65      |

### BT-LE(1Mbps)

### PSD

2440MHz

10/08/2019



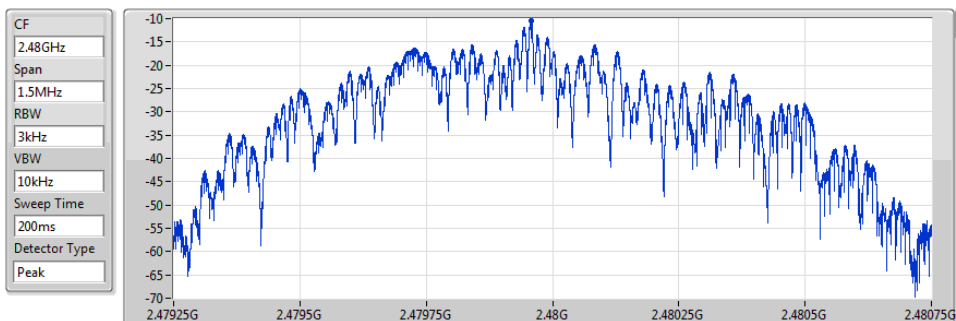
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 2.62      | 2.62      | 2.62      |

### BT-LE(1Mbps)

### PSD

2480MHz

29/10/2019



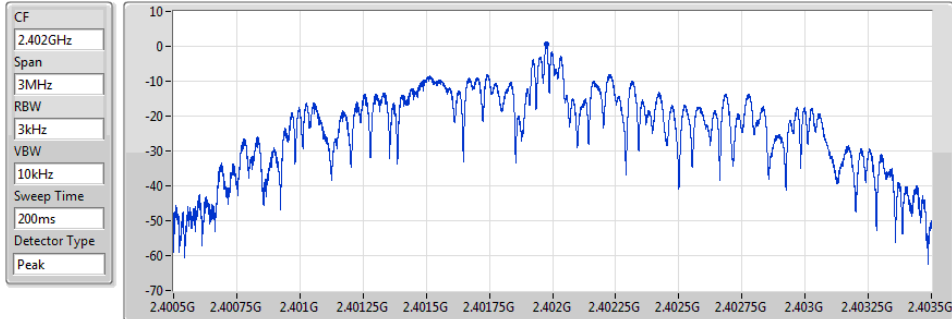
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -10.48    | -10.48    | -10.48    |

### BT-LE(2Mbps)

### PSD

2402MHz

10/08/2019



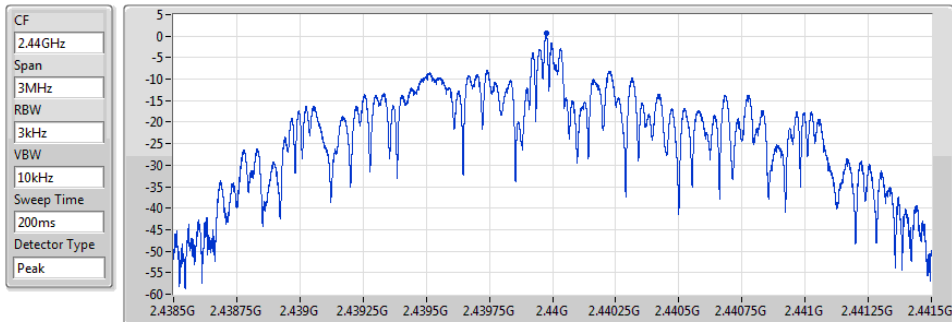
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.68      | 0.68      | 0.67      |

### BT-LE(2Mbps)

### PSD

2440MHz

10/08/2019



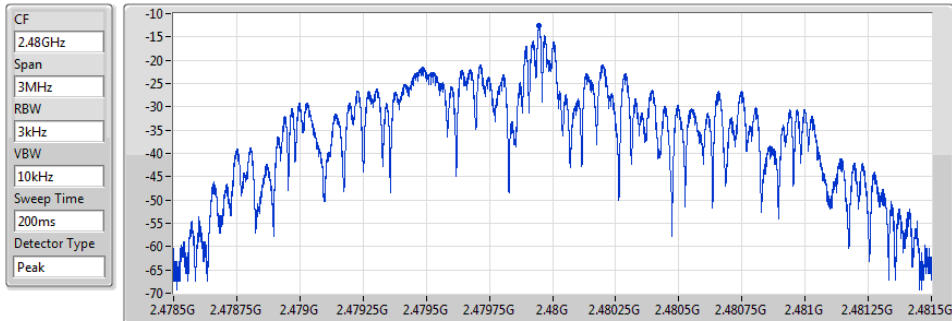
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.68      | 0.68      | 0.68      |

### BT-LE(2Mbps)

### PSD

2480MHz

29/10/2019



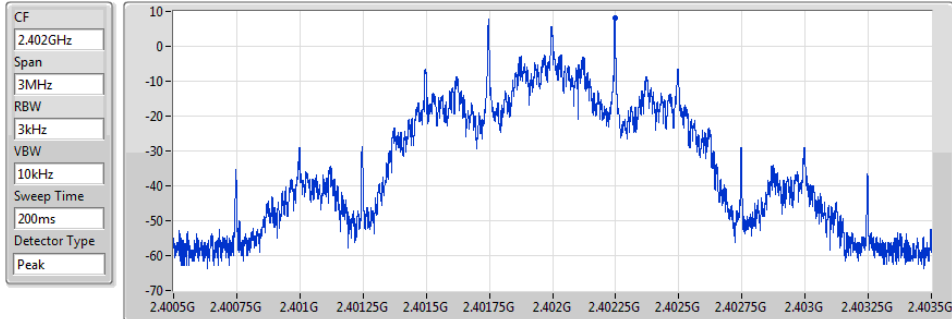
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -12.52    | -12.52    | -12.52    |

### BT-LE(125kbps)

### PSD

2402MHz

10/08/2019



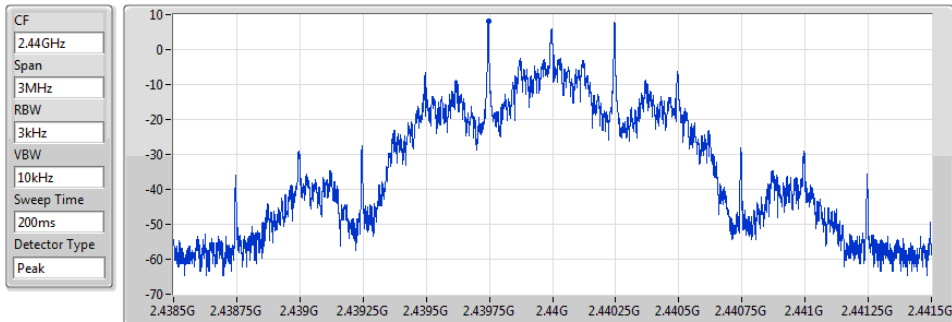
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.99      | 7.99      | 7.99      |

### BT-LE(125kbps)

### PSD

2440MHz

10/08/2019



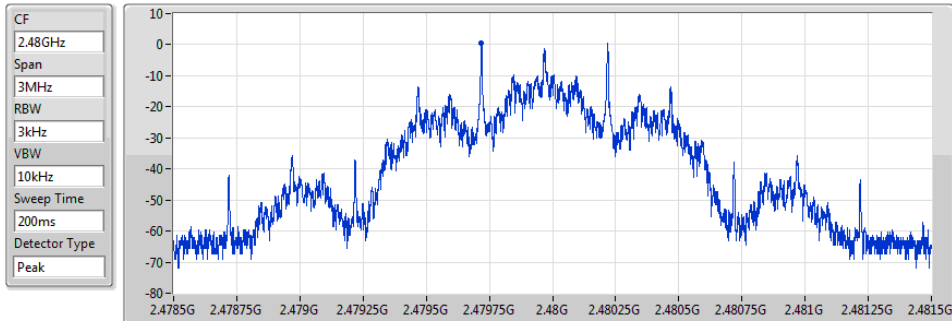
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.97      | 7.97      | 7.97      |

### BT-LE(125kbps)

### PSD

2480MHz

29/10/2019



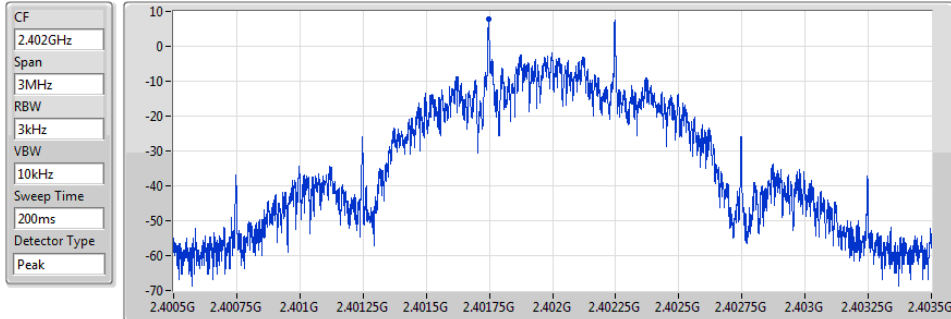
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.66      | 0.66      | 0.66      |

### BT-LE(500kbps)

### PSD

2402MHz

10/08/2019



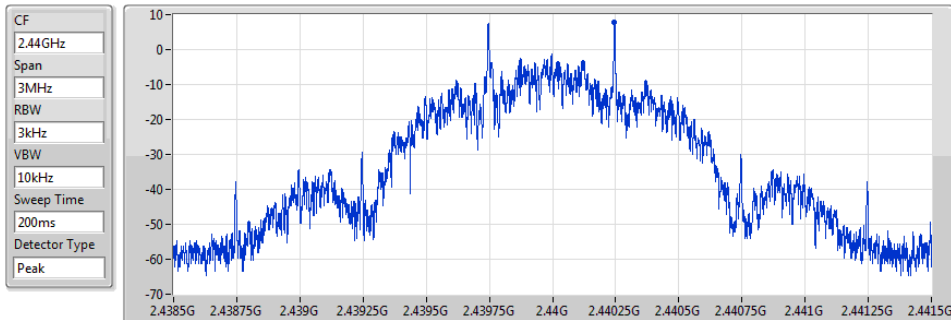
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.94      | 7.94      | 7.94      |

### BT-LE(500kbps)

### PSD

2440MHz

10/08/2019



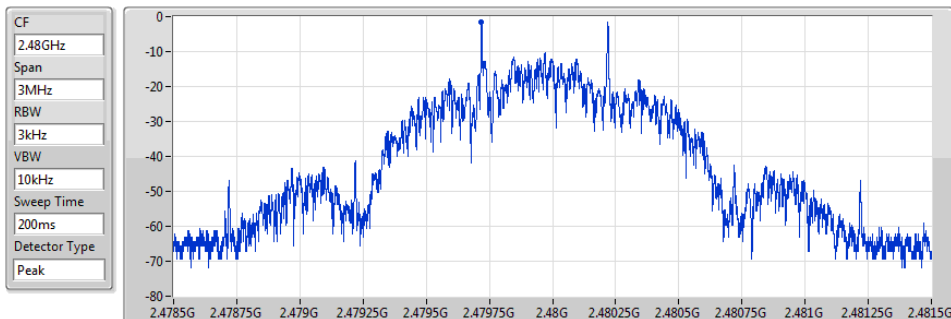
| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 7.71      | 7.71      | 7.71      |

### BT-LE(500kbps)

### PSD

2480MHz

29/10/2019



| Sum       | PD        | Port 1    |
|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.45     | -1.45     | -1.45     |

**Summary**

| Mode           | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|----------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2.4-2.4835GHz  | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| BT-LE(1Mbps)   | Pass   | 2.40171G    | 20.04        | -9.96          | 2.39622G     | -48.03         | 2.39991G     | -35.65         | 2.48516G     | -52.14         | 24.75515G    | -42.31         | 1    |
| BT-LE(2Mbps)   | Pass   | 2.40196G    | 19.33        | -10.67         | 2.39482G     | -45.54         | 2.39997G     | -12.10         | 2.48644G     | -53.00         | 16.33269G    | -42.84         | 1    |
| BT-LE(125kbps) | Pass   | 2.402G      | 13.35        | -16.65         | 2.3957G      | -53.01         | 2.39956G     | -40.35         | 2.48522G     | -52.78         | 23.46071G    | -42.83         | 1    |
| BT-LE(500kbps) | Pass   | 2.40171G    | 14.41        | -15.59         | 2.3957G      | -53.42         | 2.39998G     | -40.20         | 2.48636G     | -52.47         | 15.30555G    | -42.51         | 1    |

**Result**

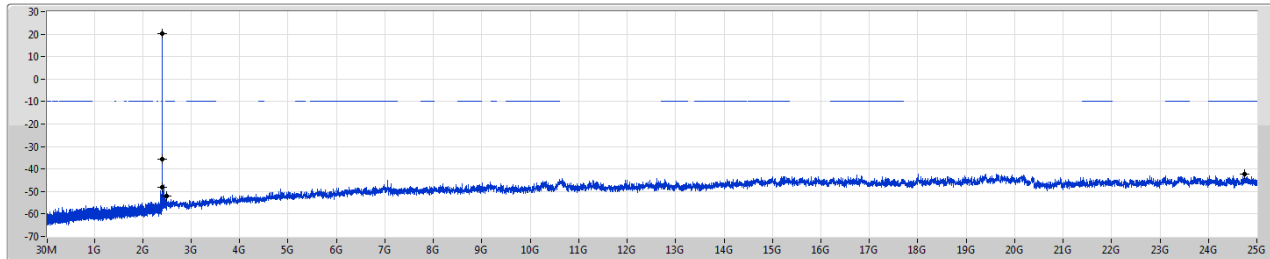
| Mode           | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|----------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| BT-LE(1Mbps)   | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2402MHz        | Pass   | 2.40171G    | 20.04        | -9.96          | 2.39622G     | -48.03         | 2.39991G     | -35.65         | 2.48516G     | -52.14         | 24.75515G    | -42.31         | 1    |
| 2440MHz        | Pass   | 2.40171G    | 20.04        | -9.96          | 2.12923G     | -54.02         | 2.39975G     | -53.81         | 2.48547G     | -52.28         | 16.59365G    | -42.07         | 1    |
| 2480MHz        | Pass   | 2.40171G    | 20.04        | -9.96          | 2.05967G     | -53.73         | 2.39815G     | -53.58         | 2.48434G     | -50.26         | 16.89197G    | -42.31         | 1    |
| BT-LE(2Mbps)   | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2402MHz        | Pass   | 2.40196G    | 19.33        | -10.67         | 2.39482G     | -45.54         | 2.39997G     | -12.10         | 2.48644G     | -53.00         | 16.33269G    | -42.84         | 1    |
| 2440MHz        | Pass   | 2.40196G    | 19.29        | -10.71         | 2.16088G     | -54.94         | 2.39847G     | -53.06         | 2.48471G     | -52.47         | 23.44382G    | -42.35         | 1    |
| 2480MHz        | Pass   | 2.40196G    | 19.29        | -10.71         | 2.09552G     | -54.92         | 2.39605G     | -53.63         | 2.48381G     | -44.19         | 23.37629G    | -41.42         | 1    |
| BT-LE(125kbps) | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2402MHz        | Pass   | 2.402G      | 13.35        | -16.65         | 2.3957G      | -53.01         | 2.39956G     | -40.35         | 2.48522G     | -52.78         | 23.46071G    | -42.83         | 1    |
| 2440MHz        | Pass   | 2.402G      | 13.35        | -16.65         | 2.1106G      | -54.39         | 2.39605G     | -53.33         | 2.48562G     | -52.30         | 23.41568G    | -42.26         | 1    |
| 2480MHz        | Pass   | 2.402G      | 13.35        | -16.65         | 2.16916G     | -54.80         | 2.39788G     | -53.52         | 2.48382G     | -49.72         | 16.40867G    | -42.07         | 1    |
| BT-LE(500kbps) | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2402MHz        | Pass   | 2.40171G    | 14.41        | -15.59         | 2.3957G      | -53.42         | 2.39998G     | -40.20         | 2.48636G     | -52.47         | 15.30555G    | -42.51         | 1    |
| 2440MHz        | Pass   | 2.40171G    | 14.41        | -15.59         | 2.11918G     | -54.11         | 2.39789G     | -53.62         | 2.48499G     | -52.91         | 16.61972G    | -41.61         | 1    |
| 2480MHz        | Pass   | 2.40171G    | 14.41        | -15.59         | 2.30491G     | -54.67         | 2.39951G     | -53.44         | 2.48386G     | -51.22         | 17.37952G    | -42.28         | 1    |

BT-LE(1Mbps)

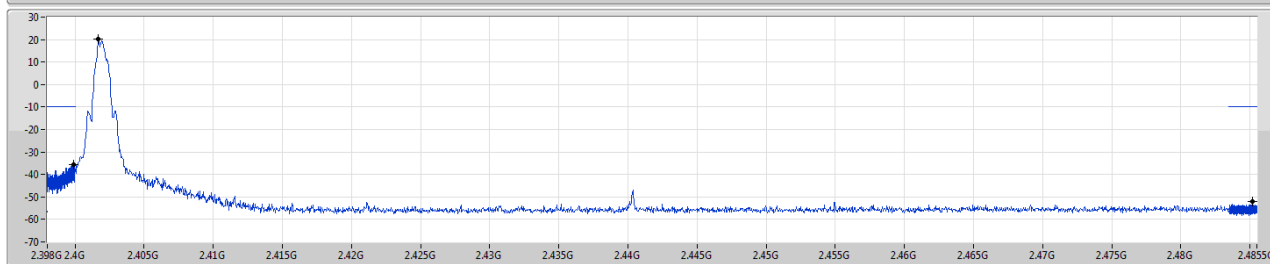
CSE NdB

2402MHz

29/10/2019



Port1



RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

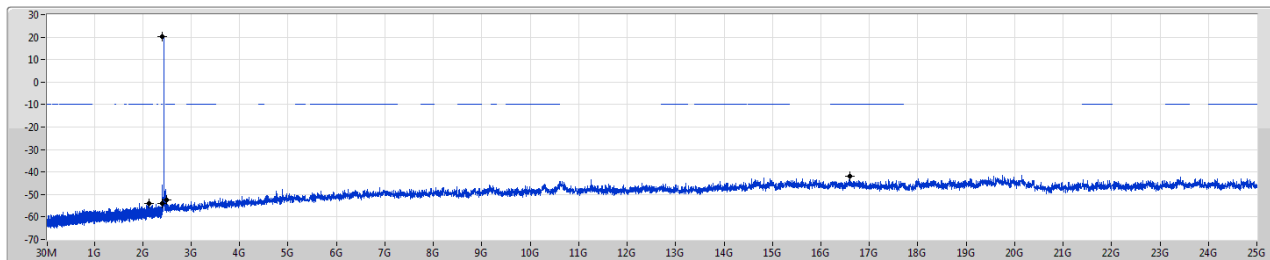
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.40171G | 20.04    | -9.96      | 2.39622G | -48.03     | 2.39991G | -35.65     | 2.48516G | -52.14     | 2.475515G | -42.31     | 1    |

BT-LE(1Mbps)

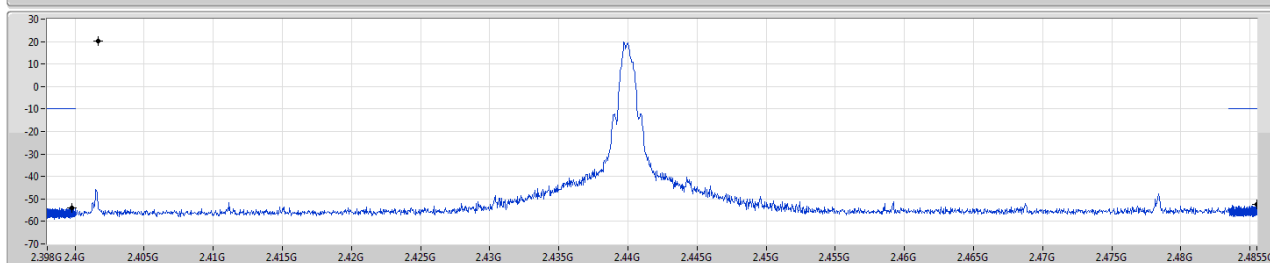
CSE NdB

2440MHz

29/10/2019



Port1



RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.40171G | 20.04    | -9.96      | 2.12923G | -54.02     | 2.39975G | -53.81     | 2.48547G | -52.28     | 16.59365G | -42.07     | 1    |

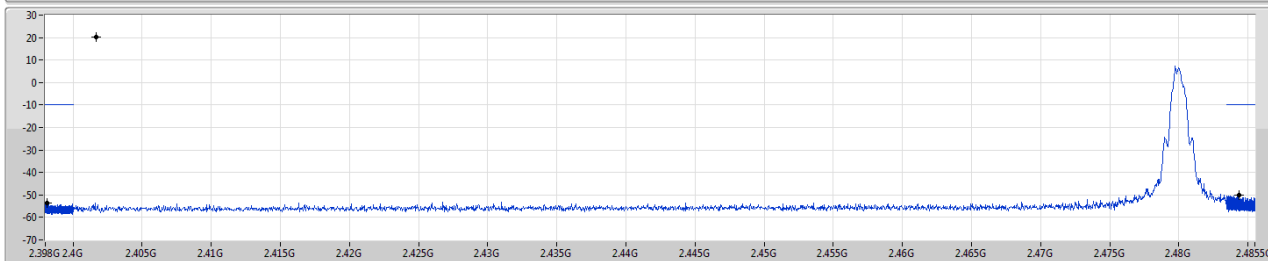
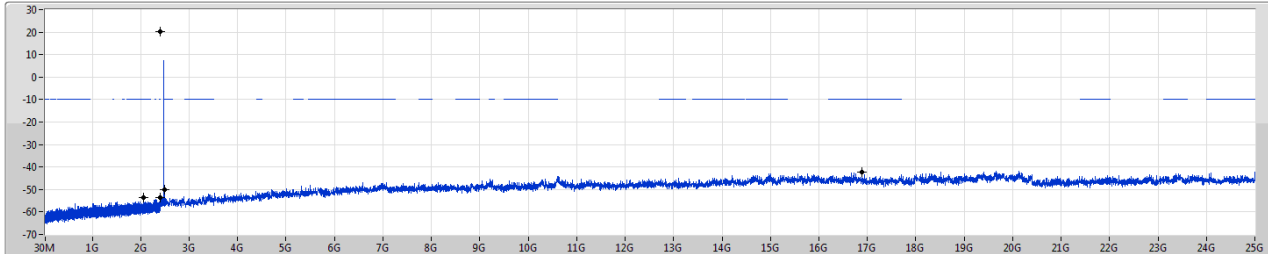
## BT-LE(1Mbps)

2480MHz

CSE NdB

29/10/2019

Port1



RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.40171G | 20.04    | -9.96      | 2.05967G | -53.73     | 2.39815G | -53.58     | 2.48434G | -50.26     | 16.89197G | -42.31     | 1    |

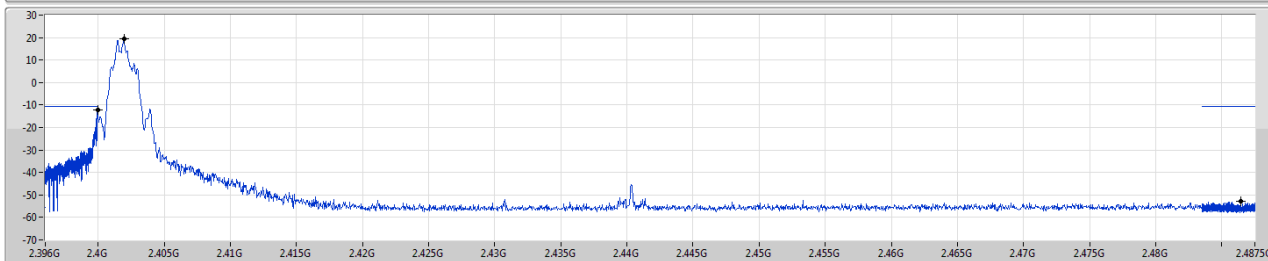
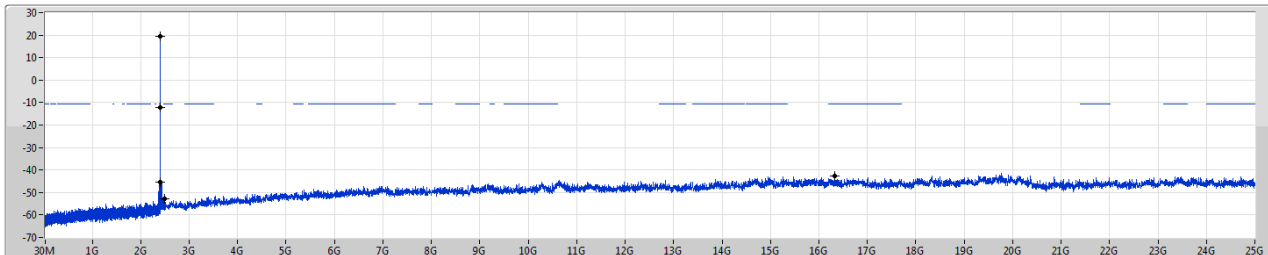
## BT-LE(2Mbps)

2402MHz

CSE NdB

29/10/2019

Port1



RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.40196G | 19.33    | -10.67     | 2.39482G | -45.54     | 2.39997G | -12.10     | 2.48644G | -53.00     | 16.33269G | -42.84     | 1    |

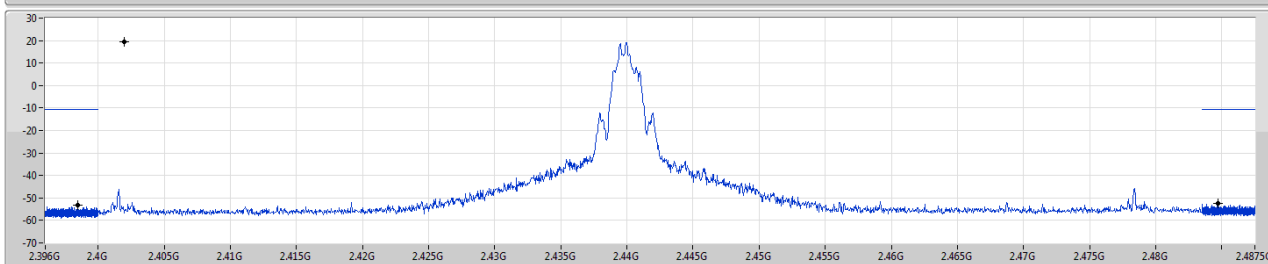
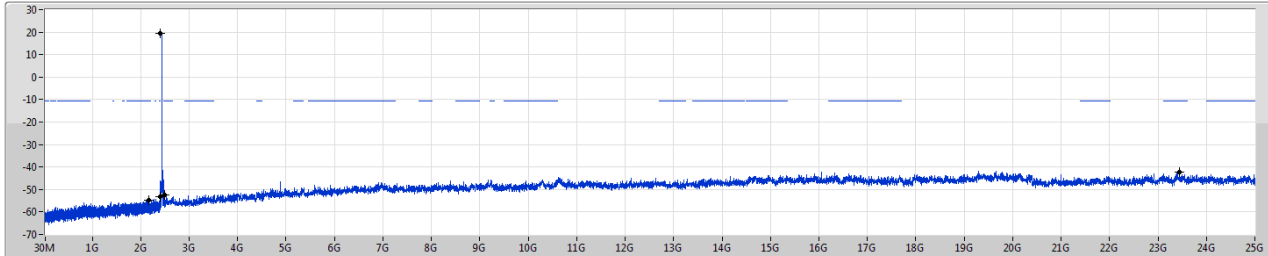
BT-LE(2Mbps)

2440MHz

CSE NdB

29/10/2019

Port1



RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.40196G | 19.29    | -10.71     | 2.16088G | -54.94     | 2.39847G | -53.06     | 2.48471G | -52.47     | 23.44382G | -42.35     | 1    |

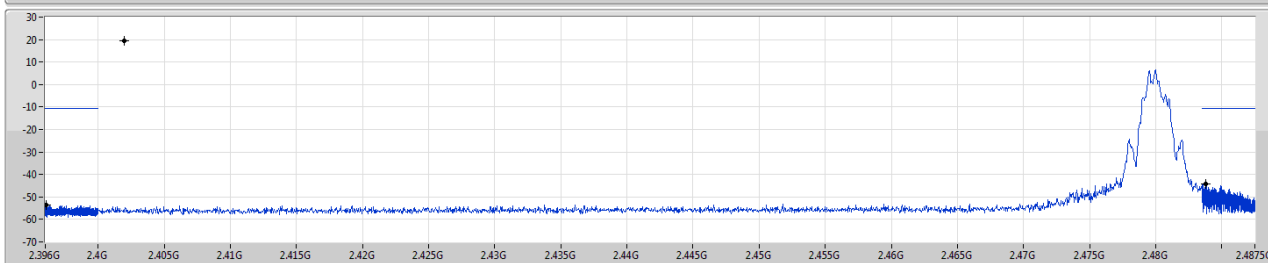
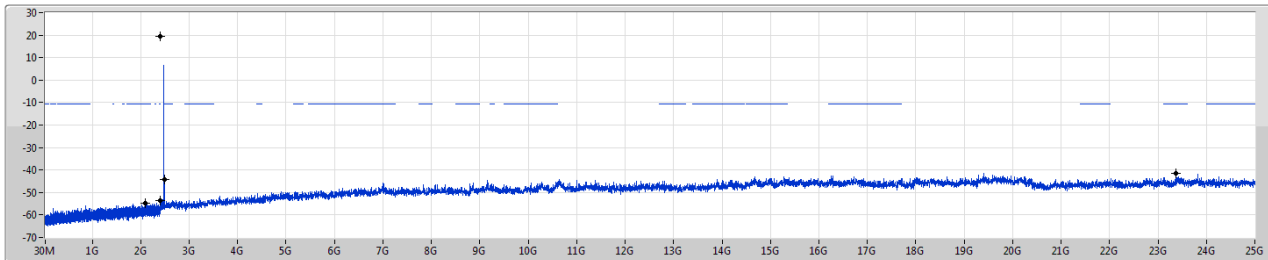
BT-LE(2Mbps)

2480MHz

CSE NdB

29/10/2019

Port1



RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.40196G | 19.29    | -10.71     | 2.09552G | -54.92     | 2.39605G | -53.63     | 2.48381G | -44.19     | 23.37629G | -41.42     | 1    |

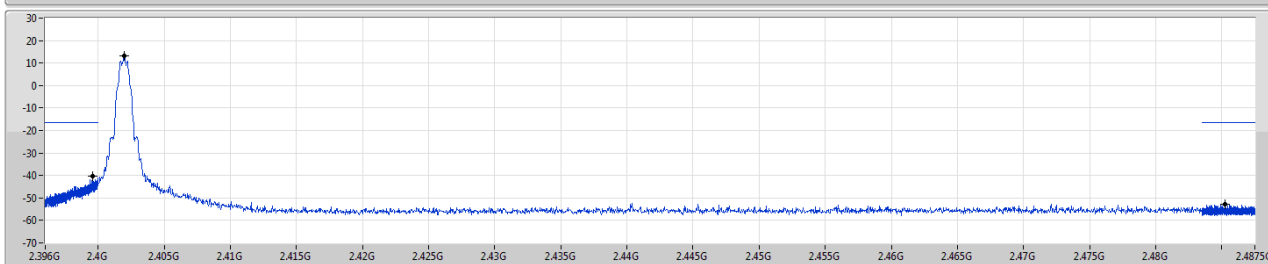
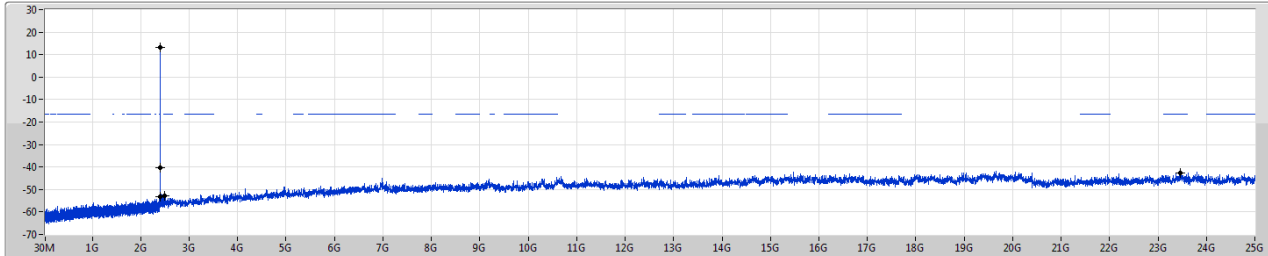
BT-LE(125kbps)

2402MHz

CSE NdB

29/10/2019

Port1



RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|---------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2402G   | 13.35    | -16.65     | 2.3957G  | -53.01     | 2.39956G | -40.35     | 2.48522G | -52.78     | 23.46071G | -42.83     | 1    |

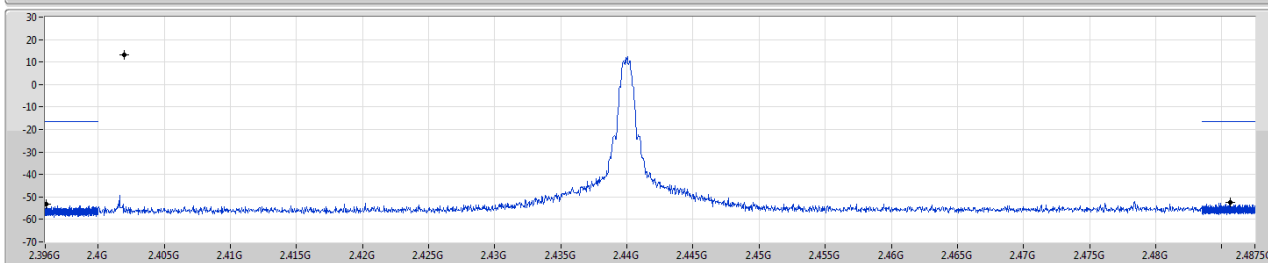
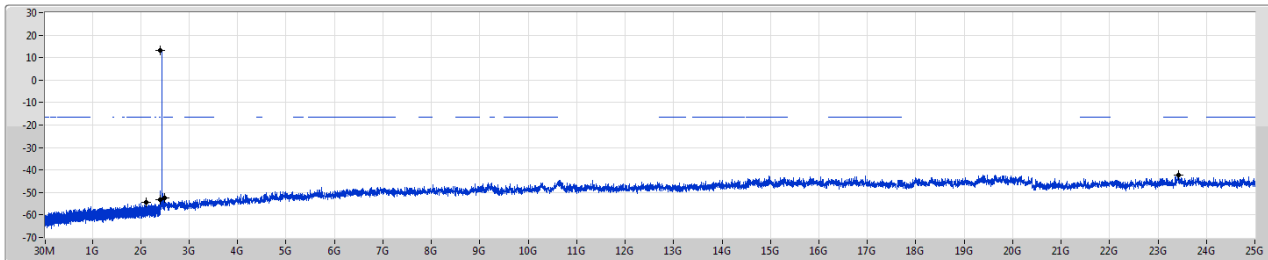
BT-LE(125kbps)

2440MHz

CSE NdB

29/10/2019

Port1



RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|---------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2402G   | 13.35    | -16.65     | 2.1106G  | -54.39     | 2.39605G | -53.33     | 2.48562G | -52.30     | 23.41568G | -42.26     | 1    |

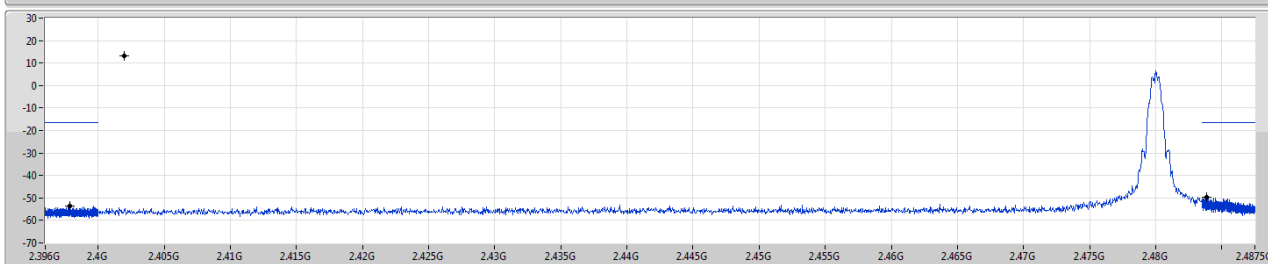
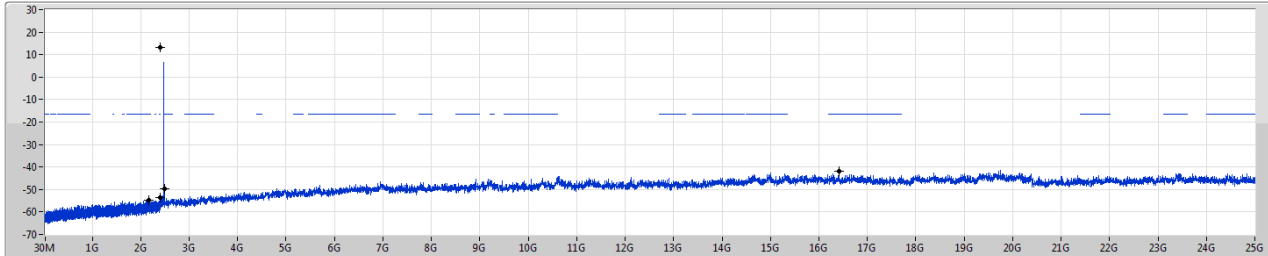
BT-LE(125kbps)

2480MHz

CSE NdB

29/10/2019

Port1



RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

| Ref(Hz) | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|---------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.402G  | 13.35    | -16.65     | 2.16916G | -54.80     | 2.39788G | -53.52     | 2.48382G | -49.72     | 16.40867G | -42.07     | 1    |

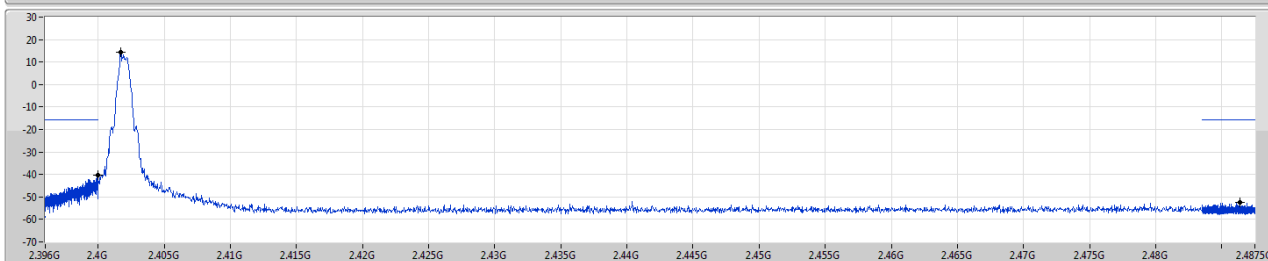
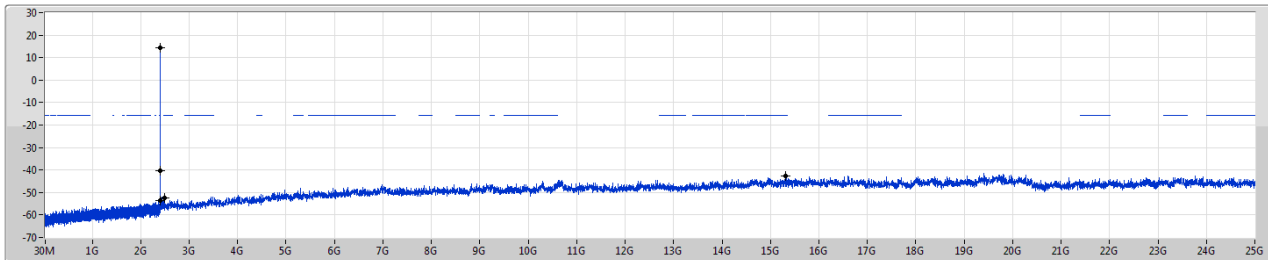
BT-LE(500kbps)

2402MHz

CSE NdB

29/10/2019

Port1



RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.40171G | 14.41    | -15.59     | 2.3957G  | -53.42     | 2.39998G | -40.20     | 2.48636G | -52.47     | 15.30555G | -42.51     | 1    |

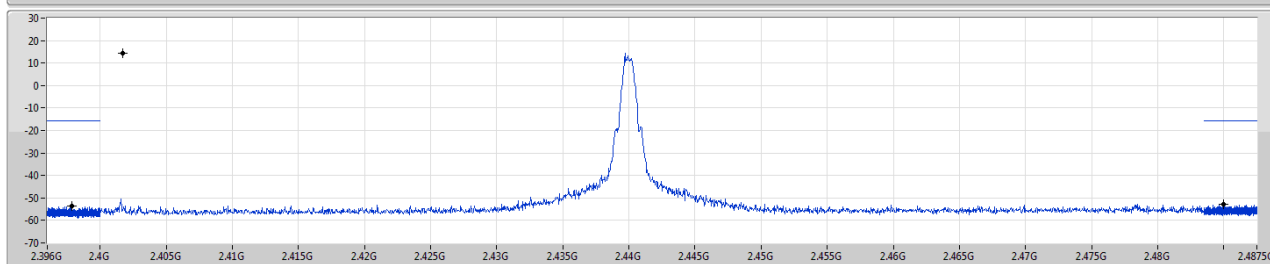
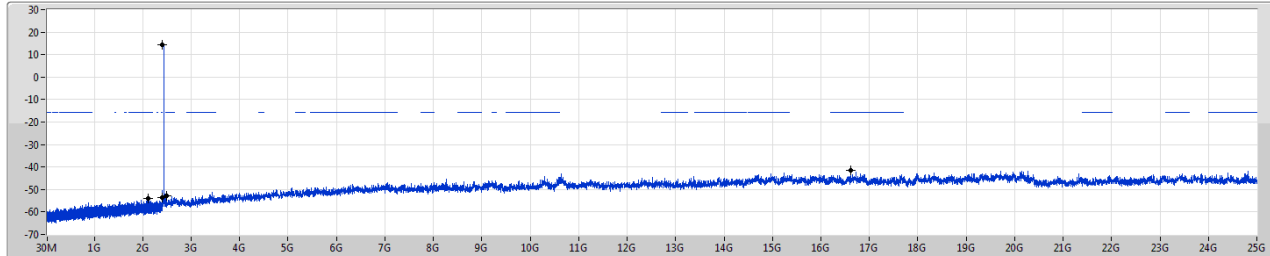
BT-LE(500kbps)

2440MHz

CSE NdB

29/10/2019

Port1



RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.40171G | 14.41    | -15.59     | 2.11918G | -54.11     | 2.39789G | -53.62     | 2.48499G | -52.91     | 16.61972G | -41.61     | 1    |

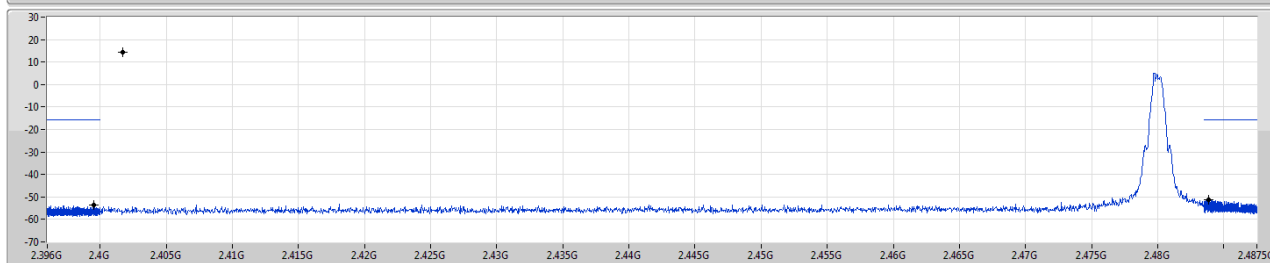
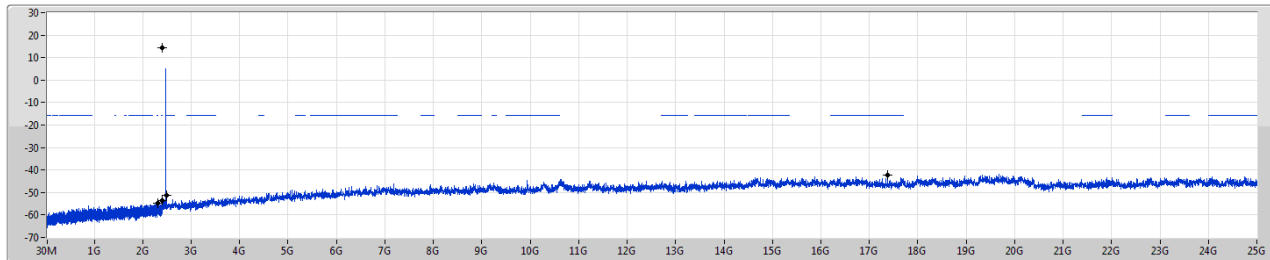
BT-LE(500kbps)

2480MHz

CSE NdB

29/10/2019

Port1



RBW (Hz)  
100k  
VBW (Hz)  
300k  
Detector  
Peak

| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.40171G | 14.41    | -15.59     | 2.30491G | -54.67     | 2.39951G | -53.44     | 2.48386G | -51.22     | 17.37952G | -42.28     | 1    |



**Summary**

| Mode             | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|-----------|----------------|---------------|----------|
| 2.4-2.4835GHz    | -      | -    | -            | -                 | -                 | -              | -           | -         | -              | -             | -        |
| BT-LE(2Mbps)_1TX | Pass   | PK   | 30M          | 35.79             | 40.00             | -4.21          | 3           | Vertical  | 0              | 1.00          | -        |

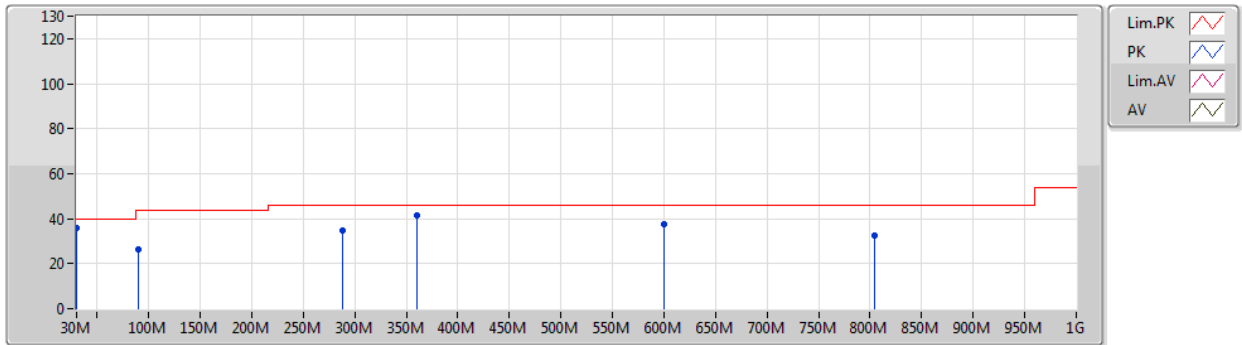
**Result**

| Mode             | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| BT-LE(2Mbps)_1TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2440MHz          | Pass   | PK   | 30M          | 35.79             | 40.00             | -4.21          | 3           | Vertical   | 0              | 1.00          | -        |
| 2440MHz          | Pass   | PK   | 90.14M       | 26.46             | 43.50             | -17.04         | 3           | Vertical   | 0              | 1.00          | -        |
| 2440MHz          | Pass   | PK   | 288.02M      | 34.86             | 46.00             | -11.14         | 3           | Vertical   | 0              | 1.00          | -        |
| 2440MHz          | Pass   | PK   | 359.8M       | 41.23             | 46.00             | -4.77          | 3           | Vertical   | 0              | 1.00          | -        |
| 2440MHz          | Pass   | PK   | 600.36M      | 37.33             | 46.00             | -8.67          | 3           | Vertical   | 0              | 1.00          | -        |
| 2440MHz          | Pass   | PK   | 804.06M      | 32.57             | 46.00             | -13.43         | 3           | Vertical   | 0              | 1.00          | -        |
| 2440MHz          | Pass   | PK   | 41.64M       | 26.32             | 40.00             | -13.68         | 3           | Horizontal | 360            | 1.00          | -        |
| 2440MHz          | Pass   | PK   | 90.14M       | 22.73             | 43.50             | -20.77         | 3           | Horizontal | 360            | 1.00          | -        |
| 2440MHz          | Pass   | PK   | 288.02M      | 30.37             | 46.00             | -15.63         | 3           | Horizontal | 360            | 1.00          | -        |
| 2440MHz          | Pass   | PK   | 497.54M      | 28.37             | 46.00             | -17.63         | 3           | Horizontal | 360            | 1.00          | -        |
| 2440MHz          | Pass   | PK   | 635.28M      | 35.45             | 46.00             | -10.55         | 3           | Horizontal | 360            | 1.00          | -        |
| 2440MHz          | Pass   | PK   | 773.02M      | 35.48             | 46.00             | -10.52         | 3           | Horizontal | 360            | 1.00          | -        |

# BT-LE(2Mbps)\_1TX

## 2440MHz\_PoE

15/08/2019

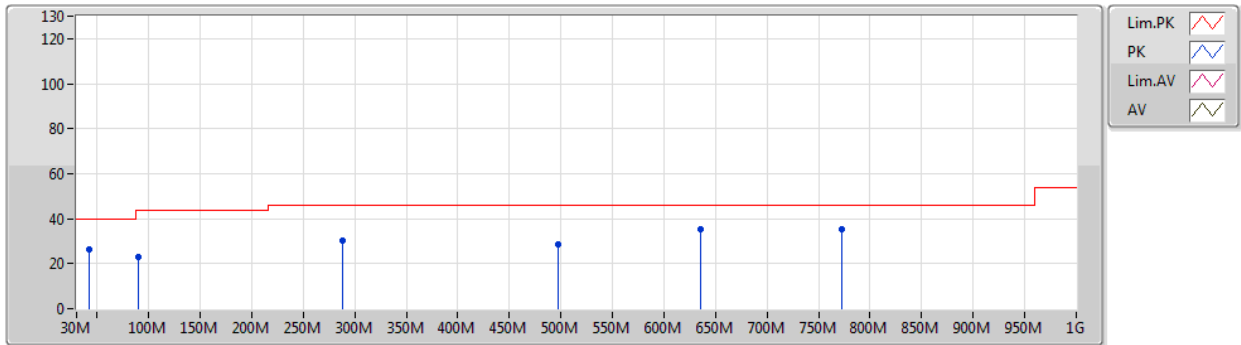


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| PK   | 30M          | 35.79             | 40.00             | -4.21          | -4.40          | 3           | Vertical  | 0              | 1.00          | -       | 40.19         | 23.01      | 0.29       | 27.70      |
| PK   | 90.14M       | 26.46             | 43.50             | -17.04         | -12.52         | 3           | Vertical  | 0              | 1.00          | -       | 38.98         | 13.84      | 1.39       | 27.75      |
| PK   | 288.02M      | 34.86             | 46.00             | -11.14         | -6.14          | 3           | Vertical  | 0              | 1.00          | -       | 41.00         | 18.09      | 2.94       | 27.17      |
| PK   | 359.8M       | 41.23             | 46.00             | -4.77          | -4.62          | 3           | Vertical  | 0              | 1.00          | -       | 45.85         | 19.83      | 3.12       | 27.57      |
| PK   | 600.36M      | 37.33             | 46.00             | -8.67          | -1.09          | 3           | Vertical  | 0              | 1.00          | -       | 38.42         | 23.75      | 3.67       | 28.51      |
| PK   | 804.06M      | 32.57             | 46.00             | -13.43         | 1.07           | 3           | Vertical  | 0              | 1.00          | -       | 31.50         | 25.03      | 4.18       | 28.14      |

## BT-LE(2Mbps)\_1TX

### 2440MHz\_PoE

15/08/2019



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| PK   | 41.64M       | 26.32             | 40.00             | -13.68         | -10.28         | 3           | Horizontal | 360            | 1.00          | -       | 36.60         | 16.72      | 0.68       | 27.68      |
| PK   | 90.14M       | 22.73             | 43.50             | -20.77         | -12.52         | 3           | Horizontal | 360            | 1.00          | -       | 35.25         | 13.84      | 1.39       | 27.75      |
| PK   | 288.02M      | 30.37             | 46.00             | -15.63         | -6.14          | 3           | Horizontal | 360            | 1.00          | -       | 36.51         | 18.09      | 2.94       | 27.17      |
| PK   | 497.54M      | 28.37             | 46.00             | -17.63         | -2.41          | 3           | Horizontal | 360            | 1.00          | -       | 30.78         | 22.69      | 3.31       | 28.41      |
| PK   | 635.28M      | 35.45             | 46.00             | -10.55         | -0.52          | 3           | Horizontal | 360            | 1.00          | -       | 35.97         | 24.25      | 3.76       | 28.53      |
| PK   | 773.02M      | 35.48             | 46.00             | -10.52         | 0.95           | 3           | Horizontal | 360            | 1.00          | -       | 34.53         | 25.06      | 4.14       | 28.25      |

**Summary**

| Mode               | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 2.4-2.4835GHz      | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| BT-LE(125kbps)_1TX | Pass   | AV   | 2.4835G      | 52.96             | 54.00             | -1.04          | 3           | Horizontal | 316            | 2.81          | -        |
| BT-LE(500kbps)_1TX | Pass   | AV   | 2.4835G      | 53.00             | 54.00             | -1.00          | 3           | Horizontal | 315            | 2.80          | -        |
| BT-LE(1Mbps)_1TX   | Pass   | AV   | 2.4835G      | 52.88             | 54.00             | -1.12          | 3           | Horizontal | 316            | 2.80          | -        |
| BT-LE(2Mbps)_1TX   | Pass   | AV   | 2.4835G      | 52.55             | 54.00             | -1.45          | 3           | Horizontal | 311            | 1.24          | -        |

**Result**

| Mode               | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|--------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| BT-LE(125kbps)_1TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2402MHz_TX         | Pass   | AV   | 2.39G        | 45.89             | 54.00             | -8.11          | 3           | Vertical   | 312            | 2.55          | -        |
| 2402MHz_TX         | Pass   | AV   | 2.402G       | 109.29            | Inf               | -Inf           | 3           | Vertical   | 312            | 2.55          | -        |
| 2402MHz_TX         | Pass   | PK   | 2.376G       | 57.17             | 74.00             | -16.83         | 3           | Vertical   | 312            | 2.55          | -        |
| 2402MHz_TX         | Pass   | PK   | 2.402G       | 110.81            | Inf               | -Inf           | 3           | Vertical   | 312            | 2.55          | -        |
| 2402MHz_TX         | Pass   | AV   | 2.3898G      | 46.08             | 54.00             | -7.92          | 3           | Horizontal | 311            | 2.96          | -        |
| 2402MHz_TX         | Pass   | AV   | 2.402G       | 112.66            | Inf               | -Inf           | 3           | Horizontal | 311            | 2.96          | -        |
| 2402MHz_TX         | Pass   | PK   | 2.3696G      | 57.55             | 74.00             | -16.45         | 3           | Horizontal | 311            | 2.96          | -        |
| 2402MHz_TX         | Pass   | PK   | 2.4018G      | 114.22            | Inf               | -Inf           | 3           | Horizontal | 311            | 2.96          | -        |
| 2402MHz_TX         | Pass   | AV   | 4.8042G      | 36.31             | 54.00             | -17.69         | 3           | Vertical   | 9              | 1.32          | -        |
| 2402MHz_TX         | Pass   | PK   | 4.80434G     | 46.35             | 74.00             | -27.65         | 3           | Vertical   | 9              | 1.32          | -        |
| 2402MHz_TX         | Pass   | AV   | 4.80402G     | 41.83             | 54.00             | -12.17         | 3           | Horizontal | 32             | 1.76          | -        |
| 2402MHz_TX         | Pass   | PK   | 4.8035G      | 49.16             | 74.00             | -24.84         | 3           | Horizontal | 32             | 1.76          | -        |
| 2440MHz_TX         | Pass   | AV   | 2.3848G      | 46.00             | 54.00             | -8.00          | 3           | Vertical   | 28             | 2.25          | -        |
| 2440MHz_TX         | Pass   | AV   | 2.44G        | 107.31            | Inf               | -Inf           | 3           | Vertical   | 28             | 2.25          | -        |
| 2440MHz_TX         | Pass   | AV   | 2.486G       | 46.17             | 54.00             | -7.83          | 3           | Vertical   | 28             | 2.25          | -        |
| 2440MHz_TX         | Pass   | PK   | 2.3692G      | 57.04             | 74.00             | -16.96         | 3           | Vertical   | 28             | 2.25          | -        |
| 2440MHz_TX         | Pass   | PK   | 2.4396G      | 108.82            | Inf               | -Inf           | 3           | Vertical   | 28             | 2.25          | -        |
| 2440MHz_TX         | Pass   | PK   | 2.4884G      | 57.24             | 74.00             | -16.76         | 3           | Vertical   | 28             | 2.25          | -        |
| 2440MHz_TX         | Pass   | AV   | 2.3856G      | 45.66             | 54.00             | -8.34          | 3           | Horizontal | 317            | 2.87          | -        |
| 2440MHz_TX         | Pass   | AV   | 2.44G        | 111.00            | Inf               | -Inf           | 3           | Horizontal | 317            | 2.87          | -        |
| 2440MHz_TX         | Pass   | AV   | 2.5G         | 46.44             | 54.00             | -7.56          | 3           | Horizontal | 317            | 2.87          | -        |
| 2440MHz_TX         | Pass   | PK   | 2.3616G      | 56.84             | 74.00             | -17.16         | 3           | Horizontal | 317            | 2.87          | -        |
| 2440MHz_TX         | Pass   | PK   | 2.4404G      | 112.49            | Inf               | -Inf           | 3           | Horizontal | 317            | 2.87          | -        |
| 2440MHz_TX         | Pass   | PK   | 2.4904G      | 56.94             | 74.00             | -17.06         | 3           | Horizontal | 317            | 2.87          | -        |
| 2440MHz_TX         | Pass   | AV   | 4.8801G      | 35.69             | 54.00             | -18.31         | 3           | Vertical   | 11             | 1.37          | -        |
| 2440MHz_TX         | Pass   | PK   | 4.8803G      | 45.52             | 74.00             | -28.48         | 3           | Vertical   | 11             | 1.37          | -        |
| 2440MHz_TX         | Pass   | AV   | 4.87998G     | 41.65             | 54.00             | -12.35         | 3           | Horizontal | 35             | 1.98          | -        |
| 2440MHz_TX         | Pass   | PK   | 4.88047G     | 49.49             | 74.00             | -24.51         | 3           | Horizontal | 35             | 1.98          | -        |
| 2480MHz_TX         | Pass   | AV   | 2.48G        | 98.86             | Inf               | -Inf           | 3           | Vertical   | 306            | 2.45          | -        |
| 2480MHz_TX         | Pass   | AV   | 2.4835G      | 50.68             | 54.00             | -3.32          | 3           | Vertical   | 306            | 2.45          | -        |
| 2480MHz_TX         | Pass   | PK   | 2.4802G      | 100.37            | Inf               | -Inf           | 3           | Vertical   | 306            | 2.45          | -        |
| 2480MHz_TX         | Pass   | PK   | 2.4836G      | 58.18             | 74.00             | -15.82         | 3           | Vertical   | 306            | 2.45          | -        |
| 2480MHz_TX         | Pass   | AV   | 2.48G        | 101.88            | Inf               | -Inf           | 3           | Horizontal | 316            | 2.81          | -        |
| 2480MHz_TX         | Pass   | AV   | 2.4835G      | 52.96             | 54.00             | -1.04          | 3           | Horizontal | 316            | 2.81          | -        |
| 2480MHz_TX         | Pass   | PK   | 2.4802G      | 103.45            | Inf               | -Inf           | 3           | Horizontal | 316            | 2.81          | -        |
| 2480MHz_TX         | Pass   | PK   | 2.4835G      | 60.59             | 74.00             | -13.41         | 3           | Horizontal | 316            | 2.81          | -        |
| 2480MHz_TX         | Pass   | AV   | 4.95994G     | 35.05             | 54.00             | -18.95         | 3           | Vertical   | 13             | 1.72          | -        |
| 2480MHz_TX         | Pass   | PK   | 4.95963G     | 45.92             | 74.00             | -28.08         | 3           | Vertical   | 13             | 1.72          | -        |
| 2480MHz_TX         | Pass   | AV   | 4.95988G     | 41.52             | 54.00             | -12.48         | 3           | Horizontal | 51             | 1.84          | -        |
| 2480MHz_TX         | Pass   | PK   | 4.95936G     | 49.24             | 74.00             | -24.76         | 3           | Horizontal | 51             | 1.84          | -        |
| BT-LE(500kbps)_1TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2402MHz_TX         | Pass   | AV   | 2.3824G      | 45.64             | 54.00             | -8.36          | 3           | Vertical   | 309            | 2.45          | -        |
| 2402MHz_TX         | Pass   | AV   | 2.402G       | 107.02            | Inf               | -Inf           | 3           | Vertical   | 309            | 2.45          | -        |
| 2402MHz_TX         | Pass   | PK   | 2.3664G      | 57.30             | 74.00             | -16.70         | 3           | Vertical   | 309            | 2.45          | -        |
| 2402MHz_TX         | Pass   | PK   | 2.4018G      | 108.68            | Inf               | -Inf           | 3           | Vertical   | 309            | 2.45          | -        |
| 2402MHz_TX         | Pass   | AV   | 2.3898G      | 45.83             | 54.00             | -8.17          | 3           | Horizontal | 315            | 2.79          | -        |
| 2402MHz_TX         | Pass   | AV   | 2.402G       | 108.45            | Inf               | -Inf           | 3           | Horizontal | 315            | 2.79          | -        |

| Mode             | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 2402MHz_TX       | Pass   | PK   | 2.3644G      | 57.02             | 74.00             | -16.98         | 3           | Horizontal | 315            | 2.79          | -        |
| 2402MHz_TX       | Pass   | PK   | 2.4018G      | 109.91            | Inf               | -Inf           | 3           | Horizontal | 315            | 2.79          | -        |
| 2402MHz_TX       | Pass   | AV   | 4.80353G     | 37.14             | 54.00             | -16.86         | 3           | Vertical   | 10             | 1.32          | -        |
| 2402MHz_TX       | Pass   | PK   | 4.80364G     | 45.83             | 74.00             | -28.17         | 3           | Vertical   | 10             | 1.32          | -        |
| 2402MHz_TX       | Pass   | AV   | 4.80366G     | 42.12             | 54.00             | -11.88         | 3           | Horizontal | 34             | 1.80          | -        |
| 2402MHz_TX       | Pass   | PK   | 4.80457G     | 49.17             | 74.00             | -24.83         | 3           | Horizontal | 34             | 1.80          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.3464G      | 45.55             | 54.00             | -8.45          | 3           | Vertical   | 29             | 2.23          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.44G        | 107.33            | Inf               | -Inf           | 3           | Vertical   | 29             | 2.23          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.5G         | 46.23             | 54.00             | -7.77          | 3           | Vertical   | 29             | 2.23          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.3688G      | 56.11             | 74.00             | -17.89         | 3           | Vertical   | 29             | 2.23          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.44G        | 108.86            | Inf               | -Inf           | 3           | Vertical   | 29             | 2.23          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.484G       | 55.87             | 74.00             | -18.13         | 3           | Vertical   | 29             | 2.23          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.3792G      | 45.51             | 54.00             | -8.49          | 3           | Horizontal | 318            | 2.89          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.44G        | 110.75            | Inf               | -Inf           | 3           | Horizontal | 318            | 2.89          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.5G         | 46.48             | 54.00             | -7.52          | 3           | Horizontal | 318            | 2.89          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.3816G      | 56.58             | 74.00             | -17.42         | 3           | Horizontal | 318            | 2.89          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.44G        | 112.55            | Inf               | -Inf           | 3           | Horizontal | 318            | 2.89          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.4868G      | 56.48             | 74.00             | -17.52         | 3           | Horizontal | 318            | 2.89          | -        |
| 2440MHz_TX       | Pass   | AV   | 4.87948G     | 36.29             | 54.00             | -17.71         | 3           | Vertical   | 13             | 1.48          | -        |
| 2440MHz_TX       | Pass   | PK   | 4.88043G     | 45.46             | 74.00             | -28.54         | 3           | Vertical   | 13             | 1.48          | -        |
| 2440MHz_TX       | Pass   | AV   | 4.87958G     | 41.91             | 54.00             | -12.09         | 3           | Horizontal | 35             | 1.99          | -        |
| 2440MHz_TX       | Pass   | PK   | 4.87944G     | 49.29             | 74.00             | -24.71         | 3           | Horizontal | 35             | 1.99          | -        |
| 2480MHz_TX       | Pass   | AV   | 2.48G        | 98.65             | Inf               | -Inf           | 3           | Vertical   | 309            | 2.45          | -        |
| 2480MHz_TX       | Pass   | AV   | 2.4835G      | 50.79             | 54.00             | -3.21          | 3           | Vertical   | 309            | 2.45          | -        |
| 2480MHz_TX       | Pass   | PK   | 2.4802G      | 100.44            | Inf               | -Inf           | 3           | Vertical   | 309            | 2.45          | -        |
| 2480MHz_TX       | Pass   | PK   | 2.4852G      | 58.77             | 74.00             | -15.23         | 3           | Vertical   | 309            | 2.45          | -        |
| 2480MHz_TX       | Pass   | AV   | 2.48G        | 101.70            | Inf               | -Inf           | 3           | Horizontal | 315            | 2.80          | -        |
| 2480MHz_TX       | Pass   | AV   | 2.4835G      | 53.00             | 54.00             | -1.00          | 3           | Horizontal | 315            | 2.80          | -        |
| 2480MHz_TX       | Pass   | PK   | 2.4802G      | 103.41            | Inf               | -Inf           | 3           | Horizontal | 315            | 2.80          | -        |
| 2480MHz_TX       | Pass   | PK   | 2.4835G      | 59.52             | 74.00             | -14.48         | 3           | Horizontal | 315            | 2.80          | -        |
| 2480MHz_TX       | Pass   | AV   | 4.9595G      | 35.59             | 54.00             | -18.41         | 3           | Vertical   | 15             | 1.69          | -        |
| 2480MHz_TX       | Pass   | PK   | 4.9601G      | 45.04             | 74.00             | -28.96         | 3           | Vertical   | 15             | 1.69          | -        |
| 2480MHz_TX       | Pass   | AV   | 4.95954G     | 41.53             | 54.00             | -12.47         | 3           | Horizontal | 50             | 1.82          | -        |
| 2480MHz_TX       | Pass   | PK   | 4.95947G     | 49.00             | 74.00             | -25.00         | 3           | Horizontal | 50             | 1.82          | -        |
| BT-LE(1Mbps)_1TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2402MHz_TX       | Pass   | AV   | 2.3634G      | 47.95             | 54.00             | -6.05          | 3           | Vertical   | 312            | 2.54          | -        |
| 2402MHz_TX       | Pass   | AV   | 2.402G       | 115.11            | Inf               | -Inf           | 3           | Vertical   | 312            | 2.54          | -        |
| 2402MHz_TX       | Pass   | PK   | 2.37G        | 56.85             | 74.00             | -17.15         | 3           | Vertical   | 312            | 2.54          | -        |
| 2402MHz_TX       | Pass   | PK   | 2.4018G      | 116.29            | Inf               | -Inf           | 3           | Vertical   | 312            | 2.54          | -        |
| 2402MHz_TX       | Pass   | AV   | 2.3634G      | 48.56             | 54.00             | -5.44          | 3           | Horizontal | 314            | 2.98          | -        |
| 2402MHz_TX       | Pass   | AV   | 2.402G       | 118.79            | Inf               | -Inf           | 3           | Horizontal | 314            | 2.98          | -        |
| 2402MHz_TX       | Pass   | PK   | 2.3634G      | 58.02             | 74.00             | -15.98         | 3           | Horizontal | 314            | 2.98          | -        |
| 2402MHz_TX       | Pass   | PK   | 2.402G       | 119.83            | Inf               | -Inf           | 3           | Horizontal | 314            | 2.98          | -        |
| 2402MHz_TX       | Pass   | AV   | 4.80364G     | 39.92             | 54.00             | -14.08         | 3           | Vertical   | 12             | 1.54          | -        |
| 2402MHz_TX       | Pass   | PK   | 4.80347G     | 46.81             | 74.00             | -27.19         | 3           | Vertical   | 12             | 1.54          | -        |
| 2402MHz_TX       | Pass   | AV   | 4.80384G     | 37.44             | 54.00             | -16.56         | 3           | Horizontal | 330            | 1.68          | -        |
| 2402MHz_TX       | Pass   | PK   | 4.80392G     | 45.95             | 74.00             | -28.05         | 3           | Horizontal | 330            | 1.68          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.3512G      | 46.73             | 54.00             | -7.27          | 3           | Vertical   | 25             | 2.22          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.44G        | 113.66            | Inf               | -Inf           | 3           | Vertical   | 25             | 2.22          | -        |

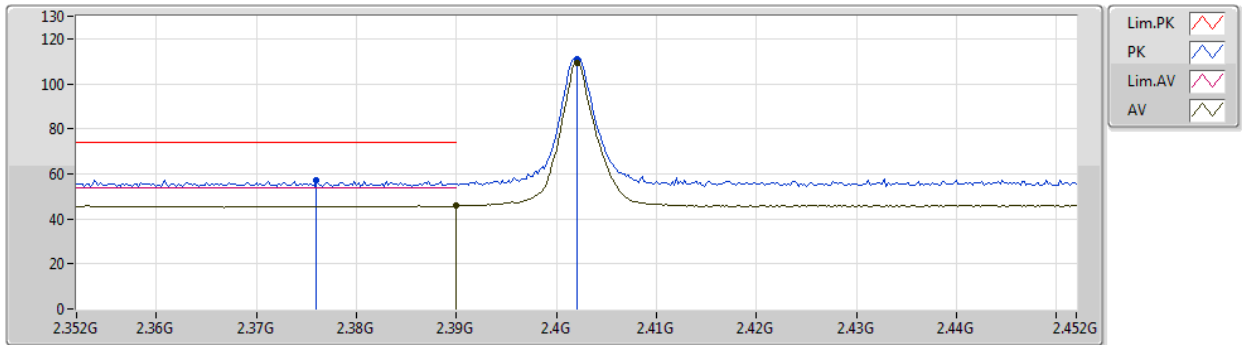
| Mode             | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 2440MHz_TX       | Pass   | AV   | 2.4916G      | 47.06             | 54.00             | -6.94          | 3           | Vertical   | 25             | 2.22          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.3832G      | 57.03             | 74.00             | -16.97         | 3           | Vertical   | 25             | 2.22          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.4396G      | 114.85            | Inf               | -Inf           | 3           | Vertical   | 25             | 2.22          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.494G       | 57.31             | 74.00             | -16.69         | 3           | Vertical   | 25             | 2.22          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.36G        | 46.82             | 54.00             | -7.18          | 3           | Horizontal | 321            | 2.90          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.44G        | 117.27            | Inf               | -Inf           | 3           | Horizontal | 321            | 2.90          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.5G         | 47.20             | 54.00             | -6.80          | 3           | Horizontal | 321            | 2.90          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.3764G      | 56.94             | 74.00             | -17.06         | 3           | Horizontal | 321            | 2.90          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.4404G      | 118.39            | Inf               | -Inf           | 3           | Horizontal | 321            | 2.90          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.494G       | 57.02             | 74.00             | -16.98         | 3           | Horizontal | 321            | 2.90          | -        |
| 2440MHz_TX       | Pass   | AV   | 4.87989G     | 38.93             | 54.00             | -15.07         | 3           | Vertical   | 12             | 1.50          | -        |
| 2440MHz_TX       | Pass   | PK   | 4.88005G     | 46.45             | 74.00             | -27.55         | 3           | Vertical   | 12             | 1.50          | -        |
| 2440MHz_TX       | Pass   | AV   | 4.87988G     | 45.58             | 54.00             | -8.42          | 3           | Horizontal | 36             | 2.07          | -        |
| 2440MHz_TX       | Pass   | PK   | 4.88004G     | 51.47             | 74.00             | -22.53         | 3           | Horizontal | 36             | 2.07          | -        |
| 2480MHz_TX       | Pass   | AV   | 2.48G        | 99.80             | Inf               | -Inf           | 3           | Vertical   | 310            | 2.14          | -        |
| 2480MHz_TX       | Pass   | AV   | 2.4835G      | 50.42             | 54.00             | -3.58          | 3           | Vertical   | 310            | 2.14          | -        |
| 2480MHz_TX       | Pass   | PK   | 2.4798G      | 100.91            | Inf               | -Inf           | 3           | Vertical   | 310            | 2.14          | -        |
| 2480MHz_TX       | Pass   | PK   | 2.4835G      | 58.03             | 74.00             | -15.97         | 3           | Vertical   | 310            | 2.14          | -        |
| 2480MHz_TX       | Pass   | AV   | 2.48G        | 102.68            | Inf               | -Inf           | 3           | Horizontal | 316            | 2.80          | -        |
| 2480MHz_TX       | Pass   | AV   | 2.4835G      | 52.88             | 54.00             | -1.12          | 3           | Horizontal | 316            | 2.80          | -        |
| 2480MHz_TX       | Pass   | PK   | 2.48G        | 103.72            | Inf               | -Inf           | 3           | Horizontal | 316            | 2.80          | -        |
| 2480MHz_TX       | Pass   | PK   | 2.4835G      | 60.01             | 74.00             | -13.99         | 3           | Horizontal | 316            | 2.80          | -        |
| 2480MHz_TX       | Pass   | AV   | 4.95993G     | 38.49             | 54.00             | -15.51         | 3           | Vertical   | 11             | 1.50          | -        |
| 2480MHz_TX       | Pass   | PK   | 4.95991G     | 45.93             | 74.00             | -28.07         | 3           | Vertical   | 11             | 1.50          | -        |
| 2480MHz_TX       | Pass   | AV   | 4.95989G     | 47.32             | 54.00             | -6.68          | 3           | Horizontal | 55             | 1.93          | -        |
| 2480MHz_TX       | Pass   | PK   | 4.95992G     | 52.25             | 74.00             | -21.75         | 3           | Horizontal | 55             | 1.93          | -        |
| BT-LE(2Mbps)_1TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2402MHz_TX       | Pass   | AV   | 2.39G        | 47.91             | 54.00             | -6.09          | 3           | Vertical   | 318            | 1.84          | -        |
| 2402MHz_TX       | Pass   | AV   | 2.4018G      | 111.61            | Inf               | -Inf           | 3           | Vertical   | 318            | 1.84          | -        |
| 2402MHz_TX       | Pass   | PK   | 2.39G        | 58.08             | 74.00             | -15.92         | 3           | Vertical   | 318            | 1.84          | -        |
| 2402MHz_TX       | Pass   | PK   | 2.4016G      | 115.00            | Inf               | -Inf           | 3           | Vertical   | 318            | 1.84          | -        |
| 2402MHz_TX       | Pass   | AV   | 2.39G        | 51.16             | 54.00             | -2.84          | 3           | Horizontal | 314            | 2.99          | -        |
| 2402MHz_TX       | Pass   | AV   | 2.402G       | 116.52            | Inf               | -Inf           | 3           | Horizontal | 314            | 2.99          | -        |
| 2402MHz_TX       | Pass   | PK   | 2.3896G      | 60.55             | 74.00             | -13.45         | 3           | Horizontal | 314            | 2.99          | -        |
| 2402MHz_TX       | Pass   | PK   | 2.402G       | 119.73            | Inf               | -Inf           | 3           | Horizontal | 314            | 2.99          | -        |
| 2402MHz_TX       | Pass   | AV   | 4.80396G     | 38.20             | 54.00             | -15.80         | 3           | Vertical   | 12             | 1.29          | -        |
| 2402MHz_TX       | Pass   | PK   | 4.80304G     | 46.27             | 74.00             | -27.73         | 3           | Vertical   | 12             | 1.29          | -        |
| 2402MHz_TX       | Pass   | AV   | 4.80384G     | 41.43             | 54.00             | -12.57         | 3           | Horizontal | 17             | 1.28          | -        |
| 2402MHz_TX       | Pass   | PK   | 4.80382G     | 49.06             | 74.00             | -24.94         | 3           | Horizontal | 17             | 1.28          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.3852G      | 46.63             | 54.00             | -7.37          | 3           | Vertical   | 28             | 2.18          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.44G        | 110.30            | Inf               | -Inf           | 3           | Vertical   | 28             | 2.18          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.4835G      | 47.17             | 54.00             | -6.83          | 3           | Vertical   | 28             | 2.18          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.3684G      | 57.03             | 74.00             | -16.97         | 3           | Vertical   | 28             | 2.18          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.4396G      | 114.63            | Inf               | -Inf           | 3           | Vertical   | 28             | 2.18          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.4984G      | 57.07             | 74.00             | -16.93         | 3           | Vertical   | 28             | 2.18          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.3876G      | 46.84             | 54.00             | -7.16          | 3           | Horizontal | 318            | 2.88          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.44G        | 114.57            | Inf               | -Inf           | 3           | Horizontal | 318            | 2.88          | -        |
| 2440MHz_TX       | Pass   | AV   | 2.5G         | 47.23             | 54.00             | -6.77          | 3           | Horizontal | 318            | 2.88          | -        |
| 2440MHz_TX       | Pass   | PK   | 2.3496G      | 57.33             | 74.00             | -16.67         | 3           | Horizontal | 318            | 2.88          | -        |

| Mode       | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 2440MHz_TX | Pass   | PK   | 2.4396G      | 118.51            | Inf               | -Inf           | 3           | Horizontal | 318            | 2.88          | -        |
| 2440MHz_TX | Pass   | PK   | 2.5G         | 56.95             | 74.00             | -17.05         | 3           | Horizontal | 318            | 2.88          | -        |
| 2440MHz_TX | Pass   | AV   | 4.87992G     | 37.51             | 54.00             | -16.49         | 3           | Vertical   | 14             | 1.50          | -        |
| 2440MHz_TX | Pass   | PK   | 4.87996G     | 46.06             | 74.00             | -27.94         | 3           | Vertical   | 14             | 1.50          | -        |
| 2440MHz_TX | Pass   | AV   | 4.8798G      | 43.65             | 54.00             | -10.35         | 3           | Horizontal | 35             | 2.01          | -        |
| 2440MHz_TX | Pass   | PK   | 4.87994G     | 51.66             | 74.00             | -22.34         | 3           | Horizontal | 35             | 2.01          | -        |
| 2480MHz_TX | Pass   | AV   | 2.4802G      | 94.61             | Inf               | -Inf           | 3           | Vertical   | 311            | 1.96          | -        |
| 2480MHz_TX | Pass   | AV   | 2.4835G      | 50.86             | 54.00             | -3.14          | 3           | Vertical   | 311            | 1.96          | -        |
| 2480MHz_TX | Pass   | PK   | 2.4794G      | 98.64             | Inf               | -Inf           | 3           | Vertical   | 311            | 1.96          | -        |
| 2480MHz_TX | Pass   | PK   | 2.4848G      | 59.31             | 74.00             | -14.69         | 3           | Vertical   | 311            | 1.96          | -        |
| 2480MHz_TX | Pass   | AV   | 2.4798G      | 98.00             | Inf               | -Inf           | 3           | Horizontal | 311            | 1.24          | -        |
| 2480MHz_TX | Pass   | AV   | 2.4835G      | 52.55             | 54.00             | -1.45          | 3           | Horizontal | 311            | 1.24          | -        |
| 2480MHz_TX | Pass   | PK   | 2.4796G      | 101.16            | Inf               | -Inf           | 3           | Horizontal | 311            | 1.24          | -        |
| 2480MHz_TX | Pass   | PK   | 2.4836G      | 62.72             | 74.00             | -11.28         | 3           | Horizontal | 311            | 1.24          | -        |
| 2480MHz_TX | Pass   | AV   | 4.96002G     | 37.64             | 54.00             | -16.36         | 3           | Vertical   | 3              | 1.10          | -        |
| 2480MHz_TX | Pass   | PK   | 4.96015G     | 46.25             | 74.00             | -27.75         | 3           | Vertical   | 3              | 1.10          | -        |
| 2480MHz_TX | Pass   | AV   | 4.95984G     | 44.54             | 54.00             | -9.46          | 3           | Horizontal | 50             | 1.79          | -        |
| 2480MHz_TX | Pass   | PK   | 4.95994G     | 52.38             | 74.00             | -21.62         | 3           | Horizontal | 50             | 1.79          | -        |

# BT-LE(125kbps)\_1TX

## 2402MHz\_TX

13/08/2019

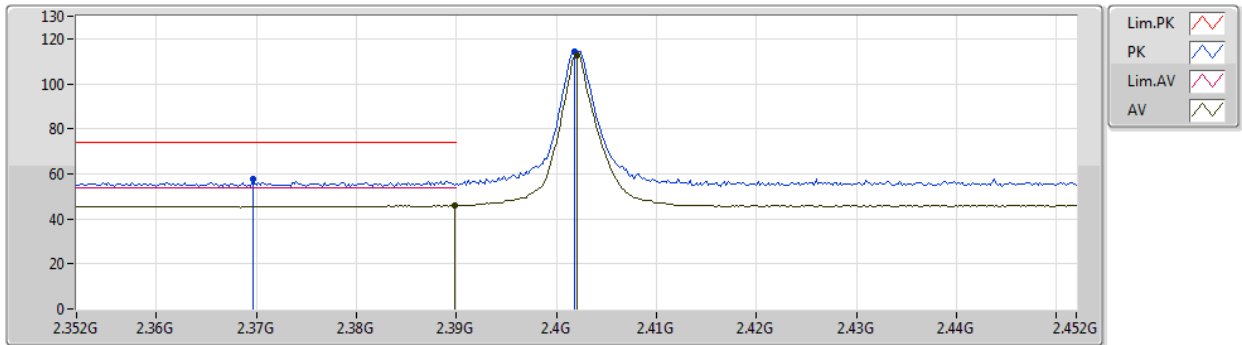


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.39G        | 45.89             | 54.00             | -8.11          | 32.09          | 13.80         | 3           | Vertical  | 312            | 2.55          | -       | 27.37      | 4.72       | -          |
| AV   | 2.402G       | 109.29            | Inf               | -Inf           | 32.14          | 77.15         | 3           | Vertical  | 312            | 2.55          | -       | 27.41      | 4.73       | -          |
| PK   | 2.376G       | 57.17             | 74.00             | -16.83         | 32.03          | 25.14         | 3           | Vertical  | 312            | 2.55          | -       | 27.33      | 4.70       | -          |
| PK   | 2.402G       | 110.81            | Inf               | -Inf           | 32.14          | 78.67         | 3           | Vertical  | 312            | 2.55          | -       | 27.41      | 4.73       | -          |

# BT-LE(125kbps)\_1TX

## 2402MHz\_TX

13/08/2019

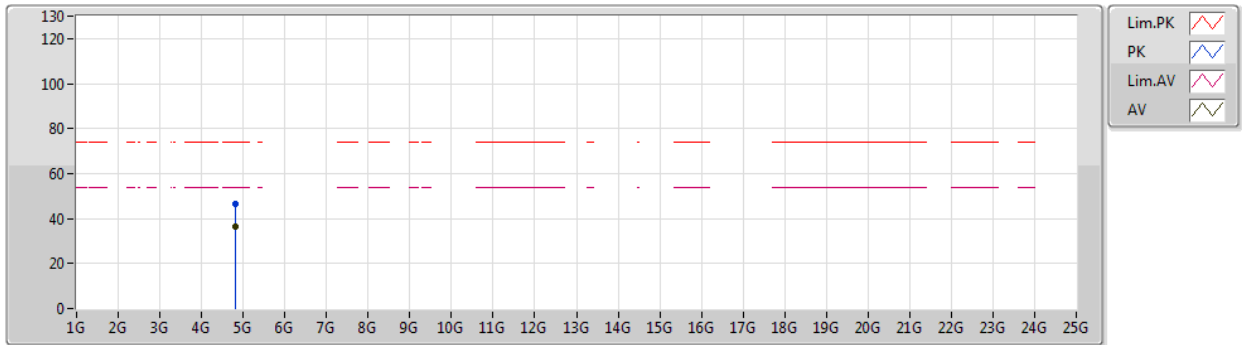


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.3898G      | 46.08             | 54.00             | -7.92          | 32.09          | 13.99         | 3           | Horizontal | 311            | 2.96          | -       | 27.37      | 4.72       | -          |
| AV   | 2.402G       | 112.66            | Inf               | -Inf           | 32.14          | 80.52         | 3           | Horizontal | 311            | 2.96          | -       | 27.41      | 4.73       | -          |
| PK   | 2.3696G      | 57.55             | 74.00             | -16.45         | 32.00          | 25.55         | 3           | Horizontal | 311            | 2.96          | -       | 27.31      | 4.69       | -          |
| PK   | 2.4018G      | 114.22            | Inf               | -Inf           | 32.14          | 82.08         | 3           | Horizontal | 311            | 2.96          | -       | 27.41      | 4.73       | -          |

## BT-LE(125kbps)\_1TX

13/08/2019

### 2402MHz\_TX

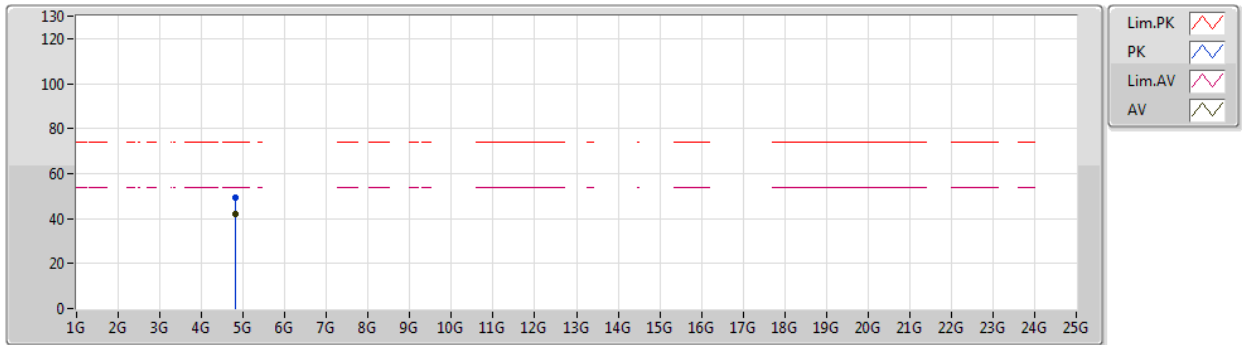


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.8042G      | 36.31             | 54.00             | -17.69         | 3.64           | 32.67         | 3           | Vertical  | 9              | 1.32          | -       | 31.35      | 6.78       | 34.49      |
| PK   | 4.80434G     | 46.35             | 74.00             | -27.65         | 3.64           | 42.71         | 3           | Vertical  | 9              | 1.32          | -       | 31.35      | 6.78       | 34.49      |

## BT-LE(125kbps)\_1TX

13/08/2019

### 2402MHz\_TX

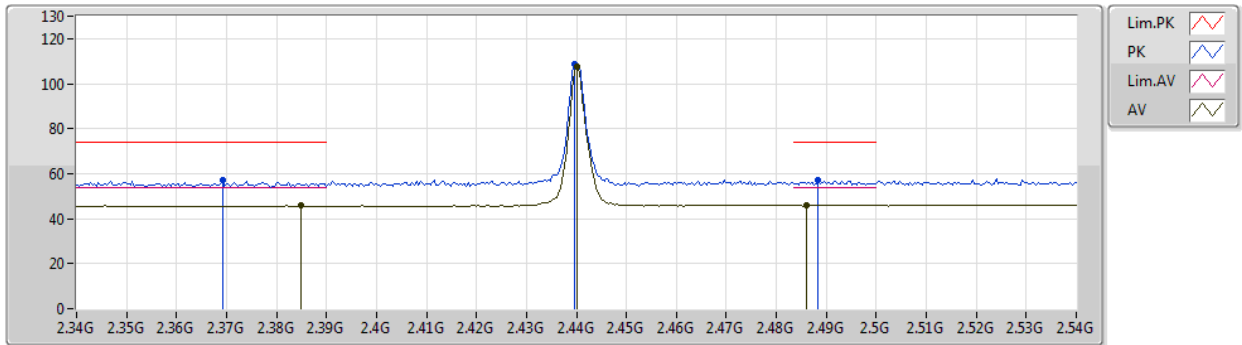


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|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.80402G     | 41.83             | 54.00             | -12.17         | 3.64           | 38.19         | 3           | Horizontal | 32             | 1.76          | -       | 31.35      | 6.78       | 34.49      |
| PK   | 4.8035G      | 49.16             | 74.00             | -24.84         | 3.64           | 45.52         | 3           | Horizontal | 32             | 1.76          | -       | 31.35      | 6.78       | 34.49      |

# BT-LE(125kbps)\_1TX

## 2440MHz\_TX

13/08/2019

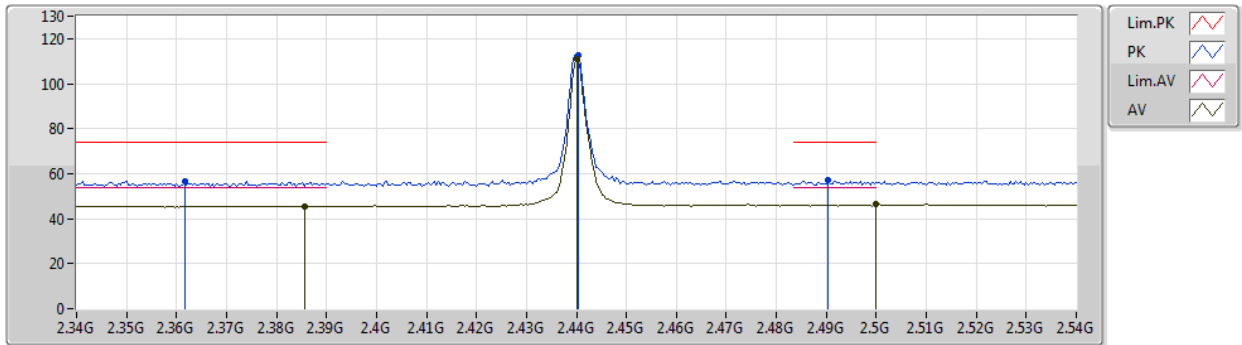


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.3848G      | 46.00             | 54.00             | -8.00          | 32.06          | 13.94         | 3           | Vertical  | 28             | 2.25          | -       | 27.35      | 4.71       | -          |
| AV   | 2.44G        | 107.31            | Inf               | -Inf           | 32.30          | 75.01         | 3           | Vertical  | 28             | 2.25          | -       | 27.52      | 4.78       | -          |
| AV   | 2.486G       | 46.17             | 54.00             | -7.83          | 32.49          | 13.68         | 3           | Vertical  | 28             | 2.25          | -       | 27.66      | 4.83       | -          |
| PK   | 2.3692G      | 57.04             | 74.00             | -16.96         | 32.00          | 25.04         | 3           | Vertical  | 28             | 2.25          | -       | 27.31      | 4.69       | -          |
| PK   | 2.4396G      | 108.82            | Inf               | -Inf           | 32.30          | 76.52         | 3           | Vertical  | 28             | 2.25          | -       | 27.52      | 4.78       | -          |
| PK   | 2.4884G      | 57.24             | 74.00             | -16.76         | 32.50          | 24.74         | 3           | Vertical  | 28             | 2.25          | -       | 27.67      | 4.83       | -          |

# BT-LE(125kbps)\_1TX

## 2440MHz\_TX

13/08/2019

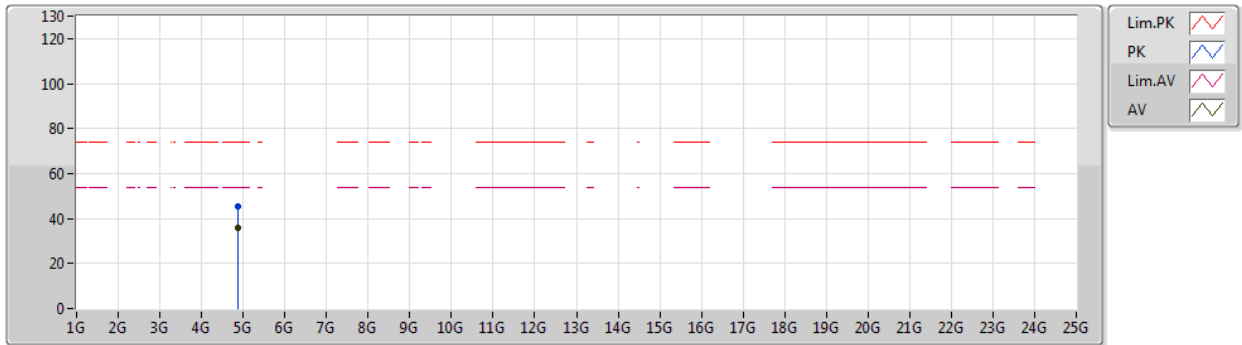


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.3856G      | 45.66             | 54.00             | -8.34          | 32.07          | 13.59         | 3           | Horizontal | 317            | 2.87          | -       | 27.36      | 4.71       | -          |
| AV   | 2.44G        | 111.00            | Inf               | -Inf           | 32.30          | 78.70         | 3           | Horizontal | 317            | 2.87          | -       | 27.52      | 4.78       | -          |
| AV   | 2.5G         | 46.44             | 54.00             | -7.56          | 32.55          | 13.89         | 3           | Horizontal | 317            | 2.87          | -       | 27.70      | 4.85       | -          |
| PK   | 2.3616G      | 56.84             | 74.00             | -17.16         | 31.97          | 24.87         | 3           | Horizontal | 317            | 2.87          | -       | 27.28      | 4.69       | -          |
| PK   | 2.4404G      | 112.49            | Inf               | -Inf           | 32.30          | 80.19         | 3           | Horizontal | 317            | 2.87          | -       | 27.52      | 4.78       | -          |
| PK   | 2.4904G      | 56.94             | 74.00             | -17.06         | 32.51          | 24.43         | 3           | Horizontal | 317            | 2.87          | -       | 27.67      | 4.84       | -          |

# BT-LE(125kbps)\_1TX

13/08/2019

## 2440MHz\_TX

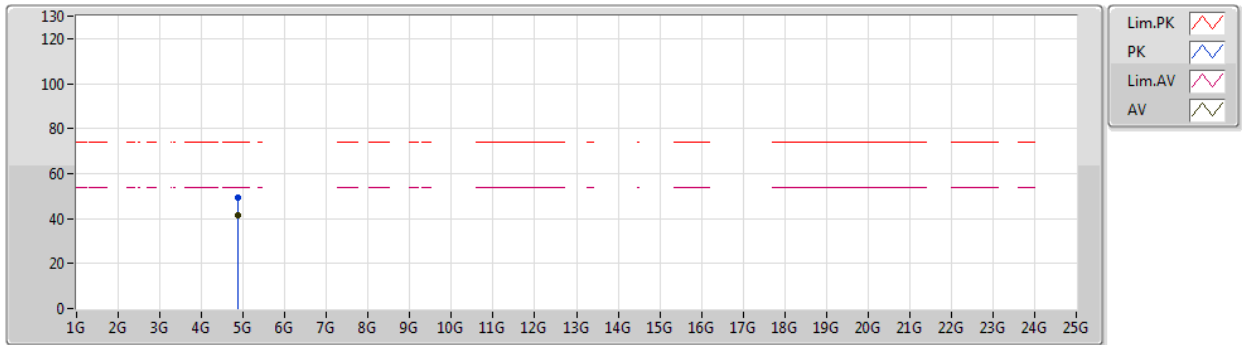


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.8801G      | 35.69             | 54.00             | -18.31         | 3.82           | 31.87         | 3           | Vertical  | 11             | 1.37          | -       | 31.48      | 6.81       | 34.47      |
| PK   | 4.8803G      | 45.52             | 74.00             | -28.48         | 3.82           | 41.70         | 3           | Vertical  | 11             | 1.37          | -       | 31.48      | 6.81       | 34.47      |

## BT-LE(125kbps)\_1TX

13/08/2019

### 2440MHz\_TX

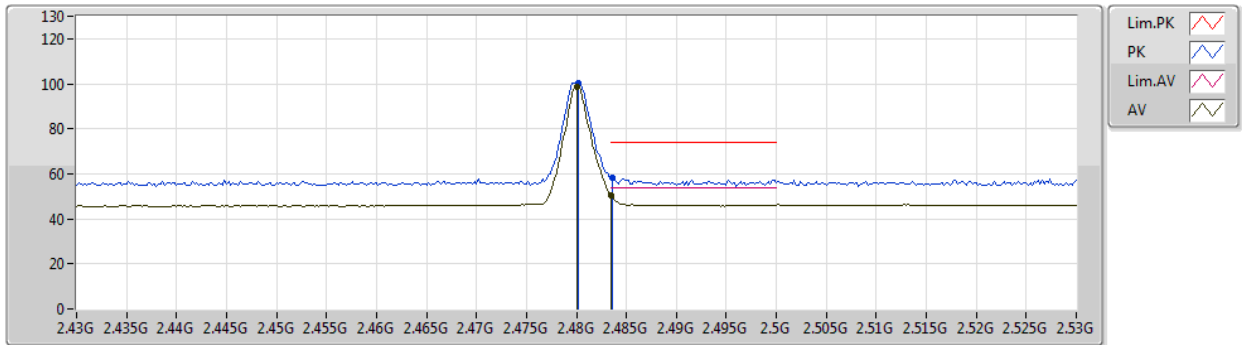


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.87998G     | 41.65             | 54.00             | -12.35         | 3.82           | 37.83         | 3           | Horizontal | 35             | 1.98          | -       | 31.48      | 6.81       | 34.47      |
| PK   | 4.88047G     | 49.49             | 74.00             | -24.51         | 3.82           | 45.67         | 3           | Horizontal | 35             | 1.98          | -       | 31.48      | 6.81       | 34.47      |

# BT-LE(125kbps)\_1TX

## 2480MHz\_TX

13/08/2019

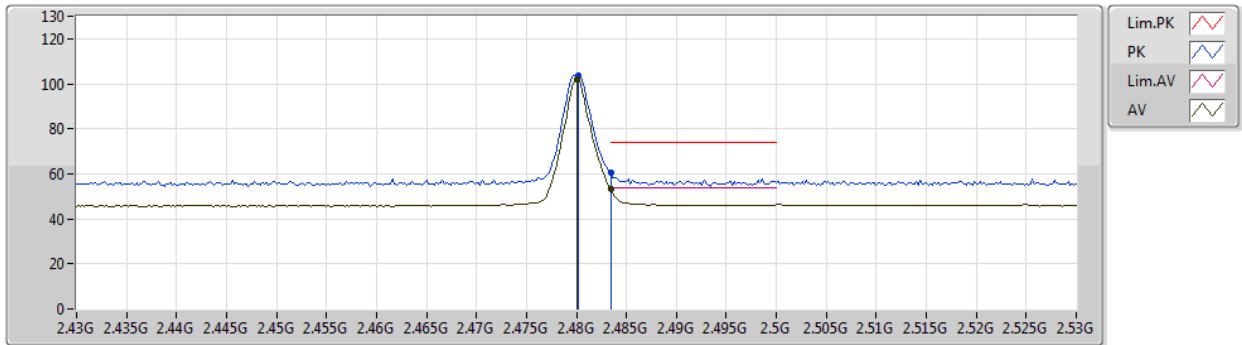


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.48G        | 98.86             | Inf               | -Inf           | 32.46          | 66.40         | 3           | Vertical  | 306            | 2.45          | -       | 27.64      | 4.82       | -          |
| AV   | 2.4835G      | 50.68             | 54.00             | -3.32          | 32.48          | 18.20         | 3           | Vertical  | 306            | 2.45          | -       | 27.65      | 4.83       | -          |
| PK   | 2.4802G      | 100.37            | Inf               | -Inf           | 32.46          | 67.91         | 3           | Vertical  | 306            | 2.45          | -       | 27.64      | 4.82       | -          |
| PK   | 2.4836G      | 58.18             | 74.00             | -15.82         | 32.48          | 25.70         | 3           | Vertical  | 306            | 2.45          | -       | 27.65      | 4.83       | -          |

# BT-LE(125kbps)\_1TX

## 2480MHz\_TX

13/08/2019

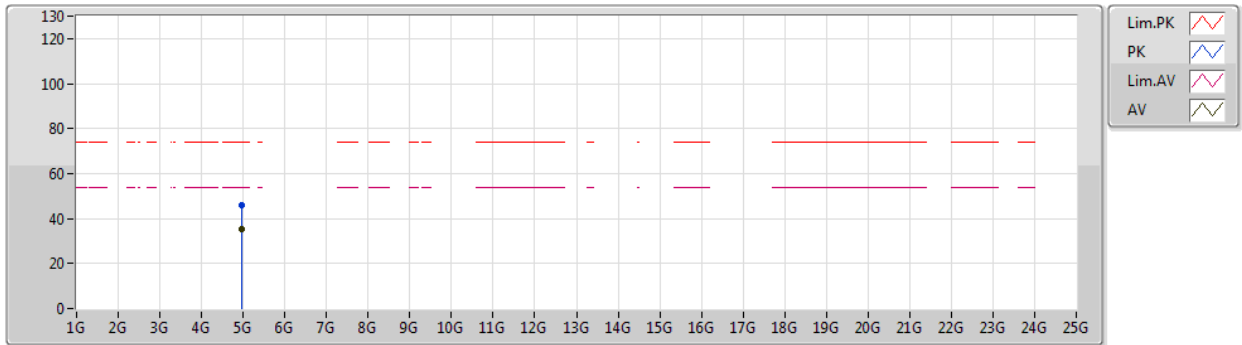


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.48G        | 101.88            | Inf               | -Inf           | 32.46          | 69.42         | 3           | Horizontal | 316            | 2.81          | -       | 27.64      | 4.82       | -          |
| AV   | 2.4835G      | 52.96             | 54.00             | -1.04          | 32.48          | 20.48         | 3           | Horizontal | 316            | 2.81          | -       | 27.65      | 4.83       | -          |
| PK   | 2.4802G      | 103.45            | Inf               | -Inf           | 32.46          | 70.99         | 3           | Horizontal | 316            | 2.81          | -       | 27.64      | 4.82       | -          |
| PK   | 2.4835G      | 60.59             | 74.00             | -13.41         | 32.48          | 28.11         | 3           | Horizontal | 316            | 2.81          | -       | 27.65      | 4.83       | -          |

# BT-LE(125kbps)\_1TX

13/08/2019

## 2480MHz\_TX

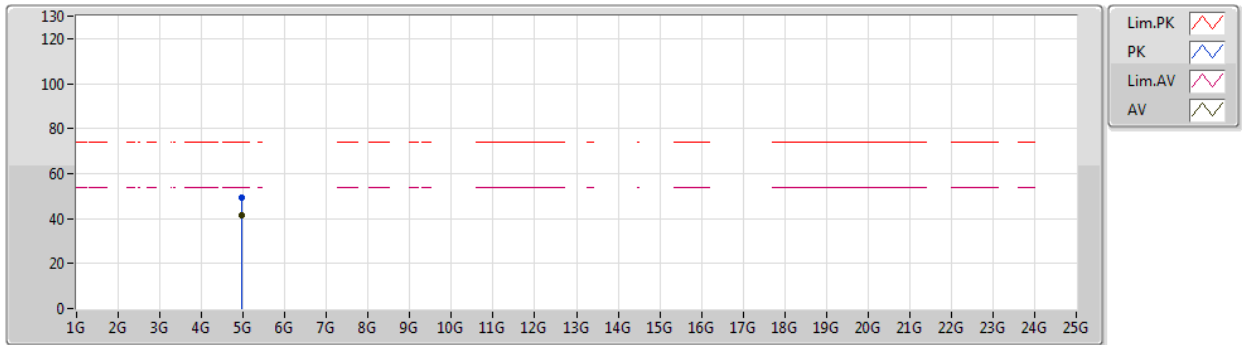


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.95994G     | 35.05             | 54.00             | -18.95         | 4.02           | 31.03         | 3           | Vertical  | 13             | 1.72          | -       | 31.63      | 6.83       | 34.44      |
| PK   | 4.95963G     | 45.92             | 74.00             | -28.08         | 4.02           | 41.90         | 3           | Vertical  | 13             | 1.72          | -       | 31.63      | 6.83       | 34.44      |

# BT-LE(125kbps)\_1TX

## 2480MHz\_TX

13/08/2019

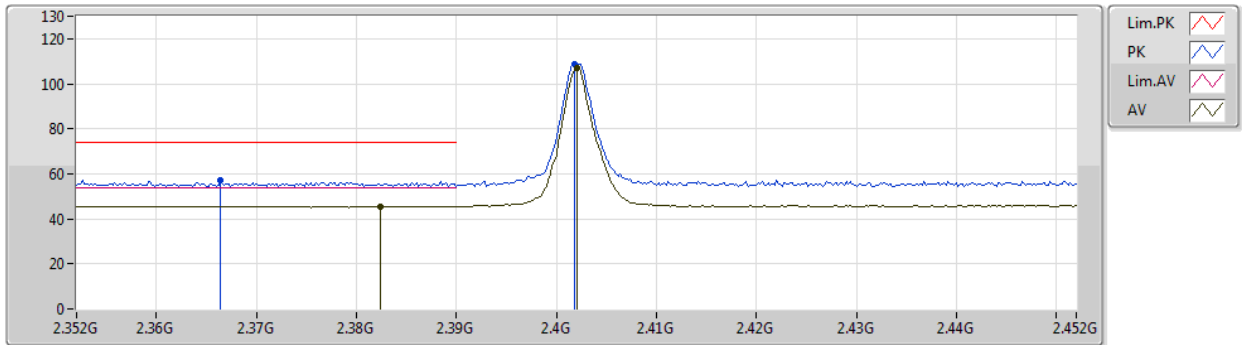


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|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.95988G     | 41.52             | 54.00             | -12.48         | 4.02           | 37.50         | 3           | Horizontal | 51             | 1.84          | -       | 31.63      | 6.83       | 34.44      |
| PK   | 4.95936G     | 49.24             | 74.00             | -24.76         | 4.02           | 45.22         | 3           | Horizontal | 51             | 1.84          | -       | 31.63      | 6.83       | 34.44      |

# BT-LE(500kbps)\_1TX

## 2402MHz\_TX

13/08/2019

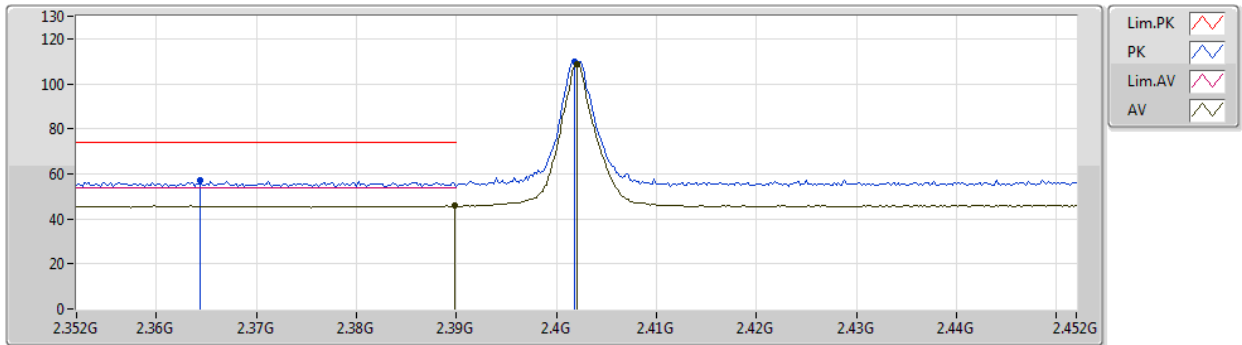


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.3824G      | 45.64             | 54.00             | -8.36          | 32.06          | 13.58         | 3           | Vertical  | 309            | 2.45          | -       | 27.35      | 4.71       | -          |
| AV   | 2.402G       | 107.02            | Inf               | -Inf           | 32.14          | 74.88         | 3           | Vertical  | 309            | 2.45          | -       | 27.41      | 4.73       | -          |
| PK   | 2.3664G      | 57.30             | 74.00             | -16.70         | 31.99          | 25.31         | 3           | Vertical  | 309            | 2.45          | -       | 27.30      | 4.69       | -          |
| PK   | 2.4018G      | 108.68            | Inf               | -Inf           | 32.14          | 76.54         | 3           | Vertical  | 309            | 2.45          | -       | 27.41      | 4.73       | -          |

# BT-LE(500kbps)\_1TX

## 2402MHz\_TX

13/08/2019

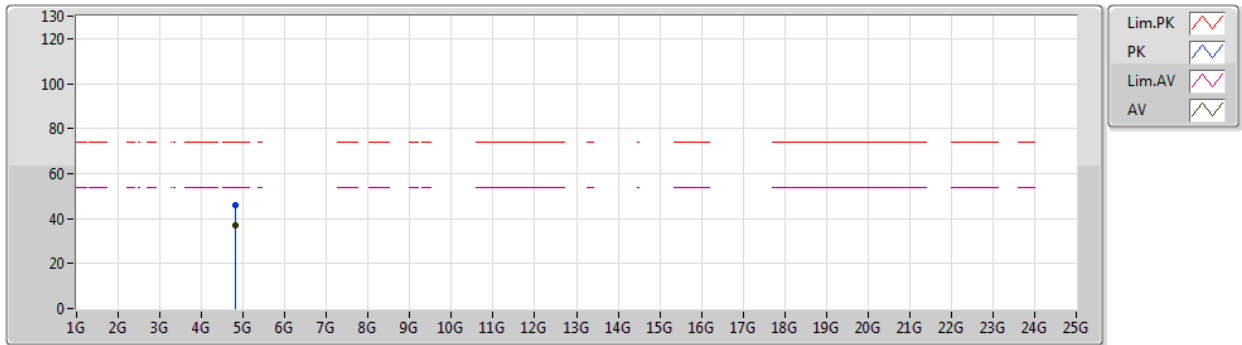


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.3898G      | 45.83             | 54.00             | -8.17          | 32.09          | 13.74         | 3           | Horizontal | 315            | 2.79          | -       | 27.37      | 4.72       | -          |
| AV   | 2.402G       | 108.45            | Inf               | -Inf           | 32.14          | 76.31         | 3           | Horizontal | 315            | 2.79          | -       | 27.41      | 4.73       | -          |
| PK   | 2.3644G      | 57.02             | 74.00             | -16.98         | 31.98          | 25.04         | 3           | Horizontal | 315            | 2.79          | -       | 27.29      | 4.69       | -          |
| PK   | 2.4018G      | 109.91            | Inf               | -Inf           | 32.14          | 77.77         | 3           | Horizontal | 315            | 2.79          | -       | 27.41      | 4.73       | -          |

## BT-LE(500kbps)\_1TX

13/08/2019

### 2402MHz\_TX

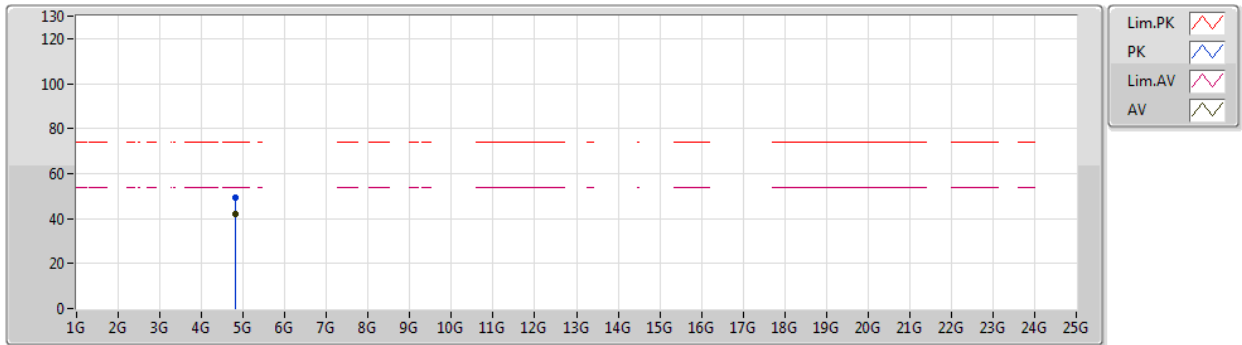


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.80353G     | 37.14             | 54.00             | -16.86         | 3.64           | 33.50         | 3           | Vertical  | 10             | 1.32          | -       | 31.35      | 6.78       | 34.49      |
| PK   | 4.80364G     | 45.83             | 74.00             | -28.17         | 3.64           | 42.19         | 3           | Vertical  | 10             | 1.32          | -       | 31.35      | 6.78       | 34.49      |

# BT-LE(500kbps)\_1TX

13/08/2019

## 2402MHz\_TX

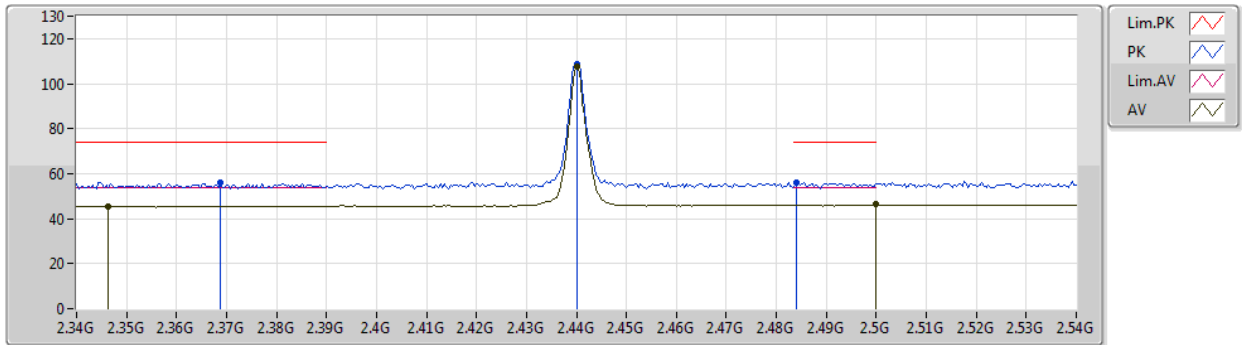


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.80366G     | 42.12             | 54.00             | -11.88         | 3.64           | 38.48         | 3           | Horizontal | 34             | 1.80          | -       | 31.35      | 6.78       | 34.49      |
| PK   | 4.80457G     | 49.17             | 74.00             | -24.83         | 3.64           | 45.53         | 3           | Horizontal | 34             | 1.80          | -       | 31.35      | 6.78       | 34.49      |

# BT-LE(500kbps)\_1TX

## 2440MHz\_TX

13/08/2019

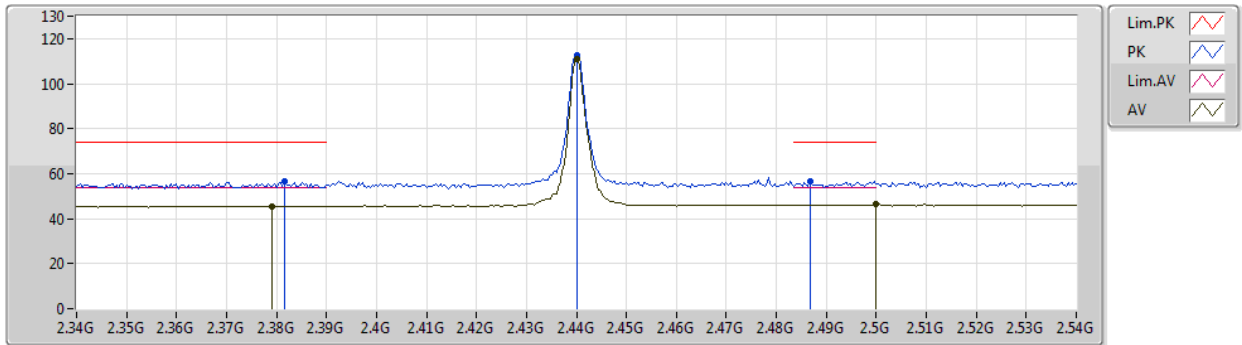


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3464G      | 45.55             | 54.00             | -8.45          | 31.91          | 3           | Vertical  | 29             | 2.23          | -       | 13.64         | 27.24      | 4.67       | -          |
| AV   | 2.44G        | 107.33            | Inf               | -Inf           | 32.30          | 3           | Vertical  | 29             | 2.23          | -       | 75.03         | 27.52      | 4.78       | -          |
| AV   | 2.5G         | 46.23             | 54.00             | -7.77          | 32.55          | 3           | Vertical  | 29             | 2.23          | -       | 13.68         | 27.70      | 4.85       | -          |
| PK   | 2.3688G      | 56.11             | 74.00             | -17.89         | 32.00          | 3           | Vertical  | 29             | 2.23          | -       | 24.11         | 27.31      | 4.69       | -          |
| PK   | 2.44G        | 108.86            | Inf               | -Inf           | 32.30          | 3           | Vertical  | 29             | 2.23          | -       | 76.56         | 27.52      | 4.78       | -          |
| PK   | 2.484G       | 55.87             | 74.00             | -18.13         | 32.48          | 3           | Vertical  | 29             | 2.23          | -       | 23.39         | 27.65      | 4.83       | -          |

# BT-LE(500kbps)\_1TX

## 2440MHz\_TX

13/08/2019

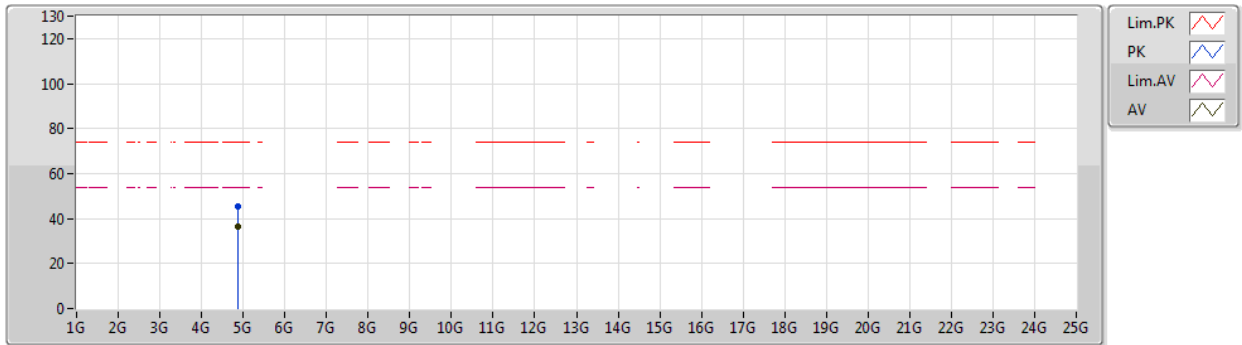


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3792G      | 45.51             | 54.00             | -8.49          | 32.05          | 3           | Horizontal | 318            | 2.89          | -       | 13.46         | 27.34      | 4.71       | -          |
| AV   | 2.44G        | 110.75            | Inf               | -Inf           | 32.30          | 3           | Horizontal | 318            | 2.89          | -       | 78.45         | 27.52      | 4.78       | -          |
| AV   | 2.5G         | 46.48             | 54.00             | -7.52          | 32.55          | 3           | Horizontal | 318            | 2.89          | -       | 13.93         | 27.70      | 4.85       | -          |
| PK   | 2.3816G      | 56.58             | 74.00             | -17.42         | 32.05          | 3           | Horizontal | 318            | 2.89          | -       | 24.53         | 27.34      | 4.71       | -          |
| PK   | 2.44G        | 112.55            | Inf               | -Inf           | 32.30          | 3           | Horizontal | 318            | 2.89          | -       | 80.25         | 27.52      | 4.78       | -          |
| PK   | 2.4868G      | 56.48             | 74.00             | -17.52         | 32.49          | 3           | Horizontal | 318            | 2.89          | -       | 23.99         | 27.66      | 4.83       | -          |

# BT-LE(500kbps)\_1TX

13/08/2019

## 2440MHz\_TX

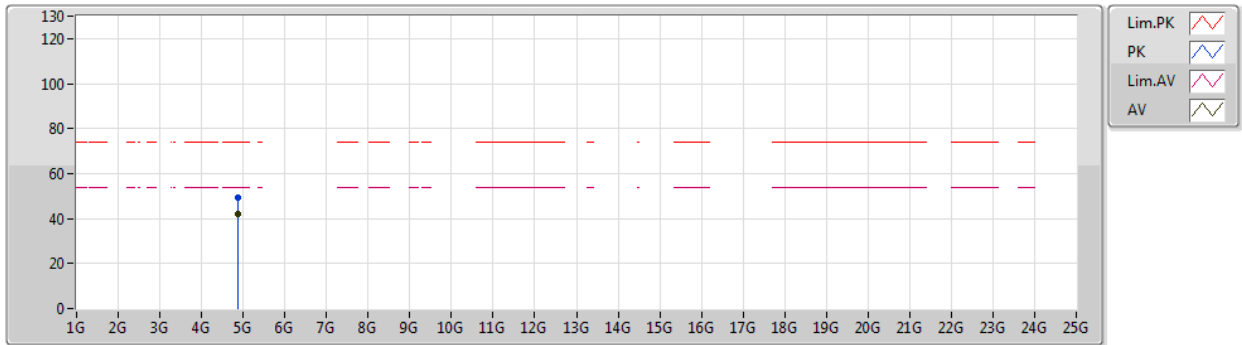


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.87948G     | 36.29             | 54.00             | -17.71         | 3.82           | 3           | Vertical  | 13             | 1.48          | -       | 32.47         | 31.48      | 6.81       | 34.47      |
| PK   | 4.88043G     | 45.46             | 74.00             | -28.54         | 3.82           | 3           | Vertical  | 13             | 1.48          | -       | 41.64         | 31.48      | 6.81       | 34.47      |

## BT-LE(500kbps)\_1TX

13/08/2019

### 2440MHz\_TX

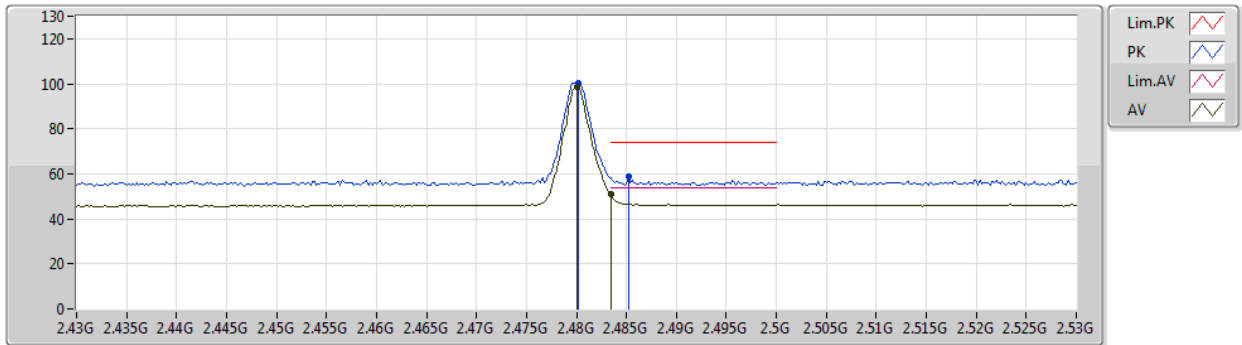


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.87958G     | 41.91             | 54.00             | -12.09         | 3.82           | 3           | Horizontal | 35             | 1.99          | -       | 38.09         | 31.48      | 6.81       | 34.47      |
| PK   | 4.87944G     | 49.29             | 74.00             | -24.71         | 3.82           | 3           | Horizontal | 35             | 1.99          | -       | 45.47         | 31.48      | 6.81       | 34.47      |

# BT-LE(500kbps)\_1TX

13/08/2019

## 2480MHz\_TX

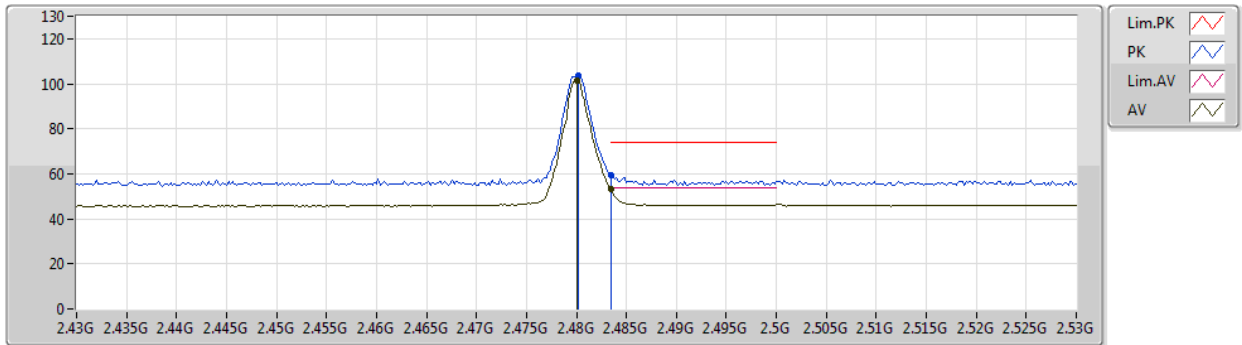


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.48G        | 98.65             | Inf               | -Inf           | 32.46          | 66.19         | 3           | Vertical  | 309            | 2.45          | -       | 27.64      | 4.82       | -          |
| AV   | 2.4835G      | 50.79             | 54.00             | -3.21          | 32.48          | 18.31         | 3           | Vertical  | 309            | 2.45          | -       | 27.65      | 4.83       | -          |
| PK   | 2.4802G      | 100.44            | Inf               | -Inf           | 32.46          | 67.98         | 3           | Vertical  | 309            | 2.45          | -       | 27.64      | 4.82       | -          |
| PK   | 2.4852G      | 58.77             | 74.00             | -15.23         | 32.49          | 26.28         | 3           | Vertical  | 309            | 2.45          | -       | 27.66      | 4.83       | -          |

## BT-LE(500kbps)\_1TX

### 2480MHz\_TX

13/08/2019

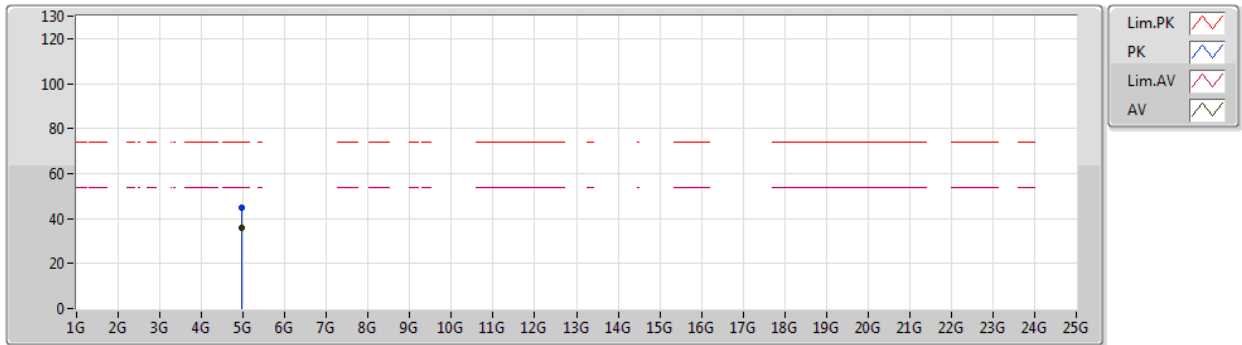


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.48G        | 101.70            | Inf               | -Inf           | 32.46          | 69.24         | 3           | Horizontal | 315            | 2.80          | -       | 27.64      | 4.82       | -          |
| AV   | 2.4835G      | 53.00             | 54.00             | -1.00          | 32.48          | 20.52         | 3           | Horizontal | 315            | 2.80          | -       | 27.65      | 4.83       | -          |
| PK   | 2.4802G      | 103.41            | Inf               | -Inf           | 32.46          | 70.95         | 3           | Horizontal | 315            | 2.80          | -       | 27.64      | 4.82       | -          |
| PK   | 2.4835G      | 59.52             | 74.00             | -14.48         | 32.48          | 27.04         | 3           | Horizontal | 315            | 2.80          | -       | 27.65      | 4.83       | -          |

# BT-LE(500kbps)\_1TX

13/08/2019

## 2480MHz\_TX

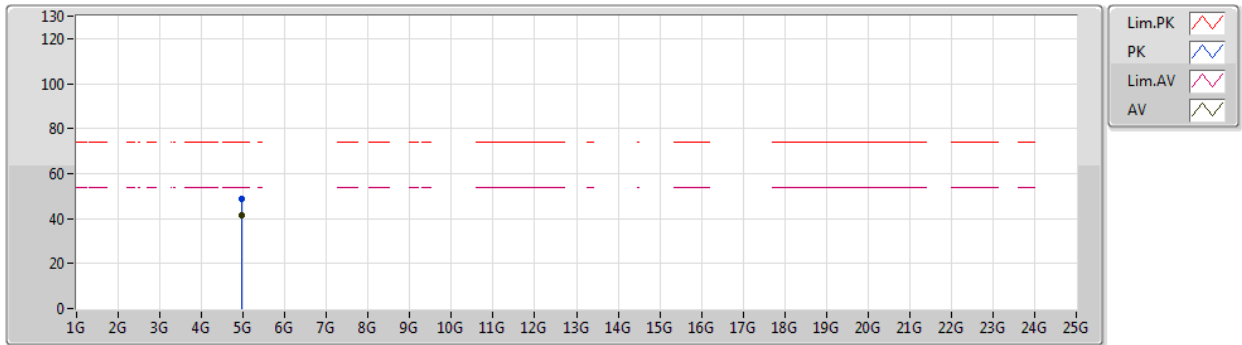


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.9595G      | 35.59             | 54.00             | -18.41         | 4.02           | 31.57         | 3           | Vertical  | 15             | 1.69          | -       | 31.63      | 6.83       | 34.44      |
| PK   | 4.9601G      | 45.04             | 74.00             | -28.96         | 4.02           | 41.02         | 3           | Vertical  | 15             | 1.69          | -       | 31.63      | 6.83       | 34.44      |

## BT-LE(500kbps)\_1TX

13/08/2019

### 2480MHz\_TX

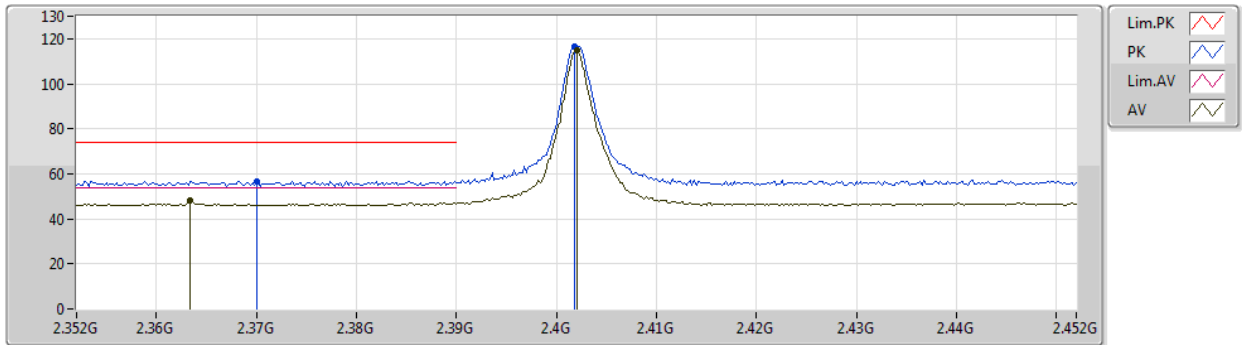


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.95954G     | 41.53             | 54.00             | -12.47         | 4.02           | 37.51         | 3           | Horizontal | 50             | 1.82          | -       | 31.63      | 6.83       | 34.44      |
| PK   | 4.95947G     | 49.00             | 74.00             | -25.00         | 4.02           | 44.98         | 3           | Horizontal | 50             | 1.82          | -       | 31.63      | 6.83       | 34.44      |

# BT-LE(1Mbps)\_1TX

## 2402MHz\_TX

13/08/2019

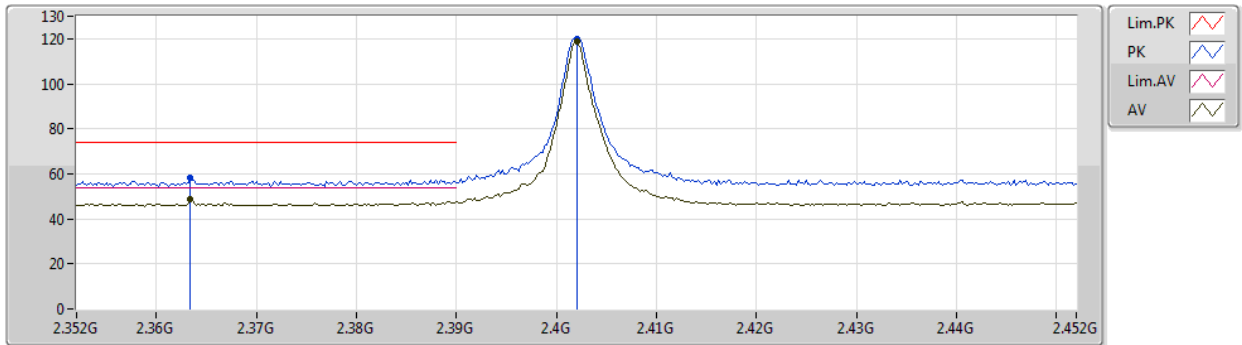


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.3634G      | 47.95             | 54.00             | -6.05          | 31.98          | 15.97         | 3           | Vertical  | 312            | 2.54          | -       | 27.29      | 4.69       | -          |
| AV   | 2.402G       | 115.11            | Inf               | -Inf           | 32.14          | 82.97         | 3           | Vertical  | 312            | 2.54          | -       | 27.41      | 4.73       | -          |
| PK   | 2.37G        | 56.85             | 74.00             | -17.15         | 32.00          | 24.85         | 3           | Vertical  | 312            | 2.54          | -       | 27.31      | 4.69       | -          |
| PK   | 2.4018G      | 116.29            | Inf               | -Inf           | 32.14          | 84.15         | 3           | Vertical  | 312            | 2.54          | -       | 27.41      | 4.73       | -          |

# BT-LE(1Mbps)\_1TX

13/08/2019

## 2402MHz\_TX

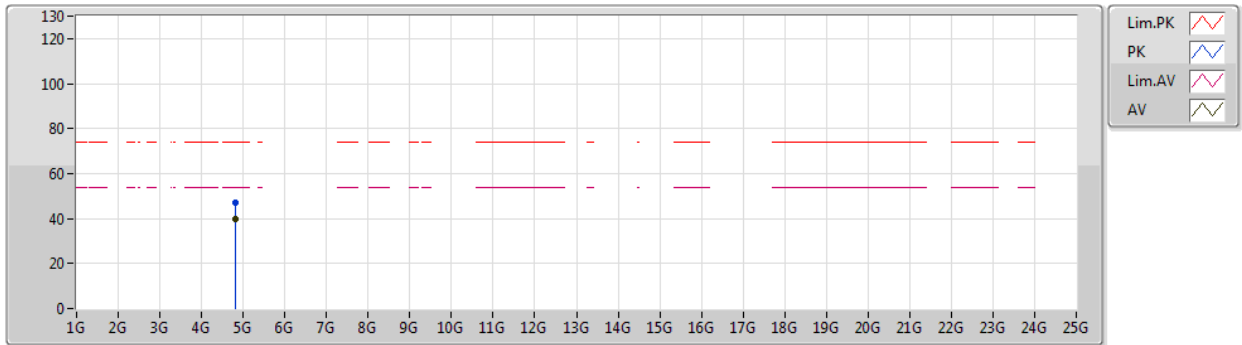


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.3634G      | 48.56             | 54.00             | -5.44          | 31.98          | 16.58         | 3           | Horizontal | 314            | 2.98          | -       | 27.29      | 4.69       | -          |
| AV   | 2.402G       | 118.79            | Inf               | -Inf           | 32.14          | 86.65         | 3           | Horizontal | 314            | 2.98          | -       | 27.41      | 4.73       | -          |
| PK   | 2.3634G      | 58.02             | 74.00             | -15.98         | 31.98          | 26.04         | 3           | Horizontal | 314            | 2.98          | -       | 27.29      | 4.69       | -          |
| PK   | 2.402G       | 119.83            | Inf               | -Inf           | 32.14          | 87.69         | 3           | Horizontal | 314            | 2.98          | -       | 27.41      | 4.73       | -          |

## BT-LE(1Mbps)\_1TX

13/08/2019

### 2402MHz\_TX

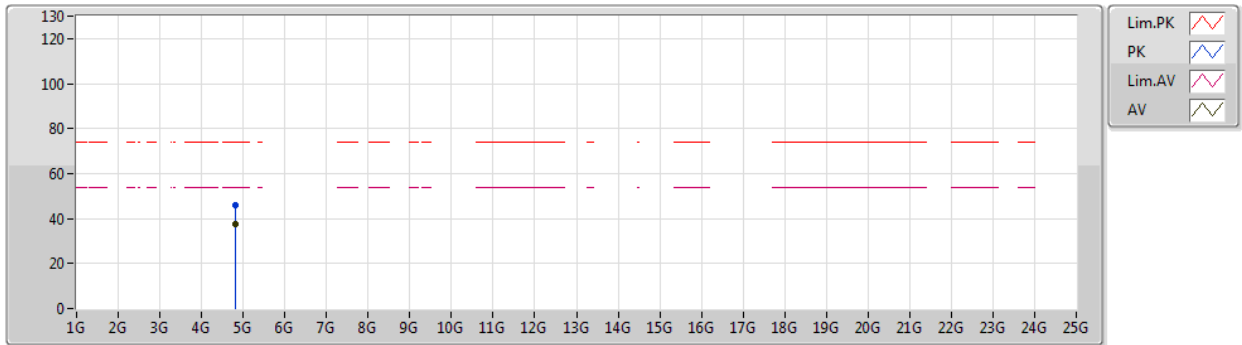


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.80364G     | 39.92             | 54.00             | -14.08         | 3.64           | 36.28         | 3           | Vertical  | 12             | 1.54          | -       | 31.35      | 6.78       | 34.49      |
| PK   | 4.80347G     | 46.81             | 74.00             | -27.19         | 3.64           | 43.17         | 3           | Vertical  | 12             | 1.54          | -       | 31.35      | 6.78       | 34.49      |

## BT-LE(1Mbps)\_1TX

13/08/2019

### 2402MHz\_TX

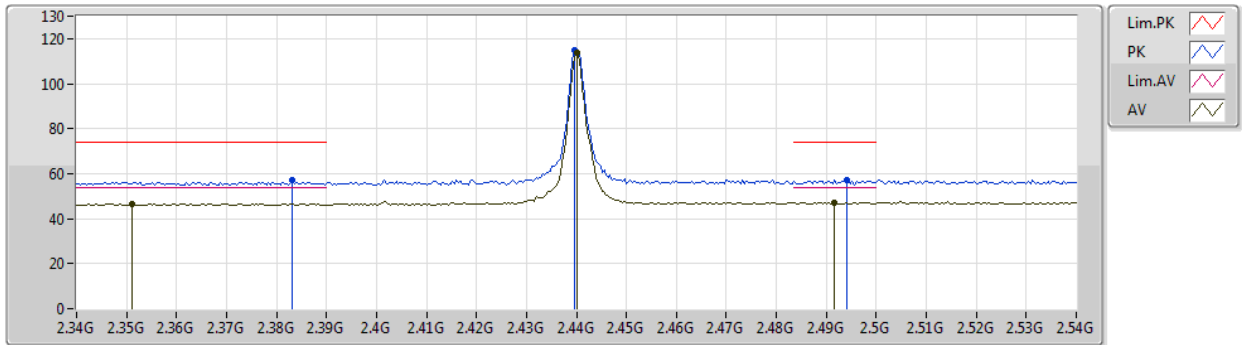


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.80384G     | 37.44             | 54.00             | -16.56         | 3.64           | 33.80         | 3           | Horizontal | 330            | 1.68          | -       | 31.35      | 6.78       | 34.49      |
| PK   | 4.80392G     | 45.95             | 74.00             | -28.05         | 3.64           | 42.31         | 3           | Horizontal | 330            | 1.68          | -       | 31.35      | 6.78       | 34.49      |

# BT-LE(1Mbps)\_1TX

## 2440MHz\_TX

13/08/2019

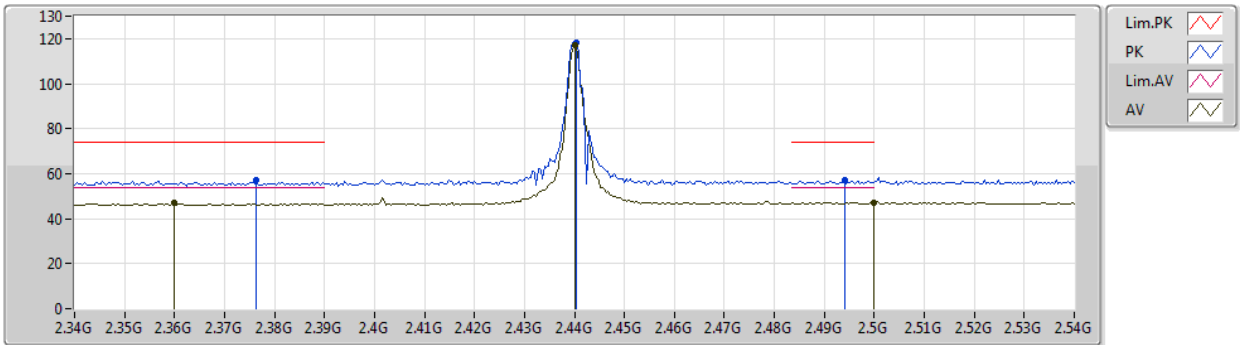


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.3512G      | 46.73             | 54.00             | -7.27          | 31.92          | 14.81         | 3           | Vertical  | 25             | 2.22          | -       | 27.25      | 4.67       | -          |
| AV   | 2.44G        | 113.66            | Inf               | -Inf           | 32.30          | 81.36         | 3           | Vertical  | 25             | 2.22          | -       | 27.52      | 4.78       | -          |
| AV   | 2.4916G      | 47.06             | 54.00             | -6.94          | 32.51          | 14.55         | 3           | Vertical  | 25             | 2.22          | -       | 27.67      | 4.84       | -          |
| PK   | 2.3832G      | 57.03             | 74.00             | -16.97         | 32.06          | 24.97         | 3           | Vertical  | 25             | 2.22          | -       | 27.35      | 4.71       | -          |
| PK   | 2.4396G      | 114.85            | Inf               | -Inf           | 32.30          | 82.55         | 3           | Vertical  | 25             | 2.22          | -       | 27.52      | 4.78       | -          |
| PK   | 2.494G       | 57.31             | 74.00             | -16.69         | 32.52          | 24.79         | 3           | Vertical  | 25             | 2.22          | -       | 27.68      | 4.84       | -          |

## BT-LE(1Mbps)\_1TX

13/08/2019

### 2440MHz\_TX

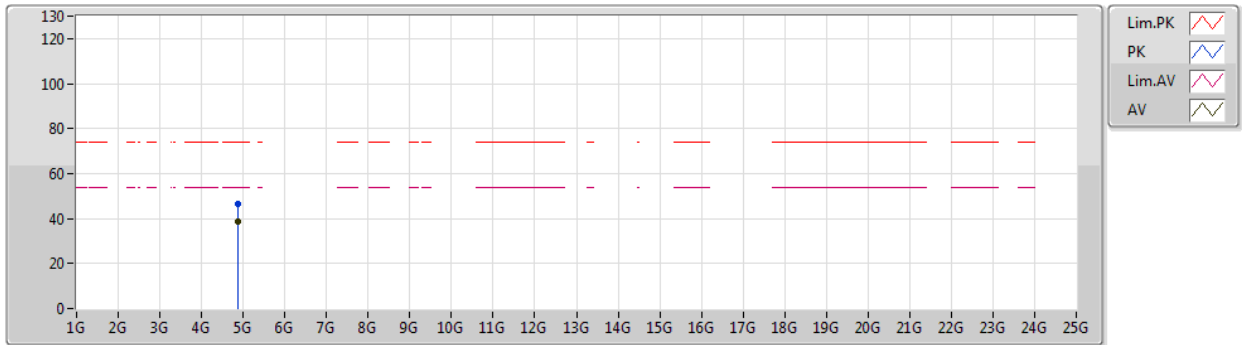


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.36G        | 46.82             | 54.00             | -7.18          | 31.96          | 14.86         | 3           | Horizontal | 321            | 2.90          | -       | 27.28      | 4.68       | -          |
| AV   | 2.44G        | 117.27            | Inf               | -Inf           | 32.30          | 84.97         | 3           | Horizontal | 321            | 2.90          | -       | 27.52      | 4.78       | -          |
| AV   | 2.5G         | 47.20             | 54.00             | -6.80          | 32.55          | 14.65         | 3           | Horizontal | 321            | 2.90          | -       | 27.70      | 4.85       | -          |
| PK   | 2.3764G      | 56.94             | 74.00             | -17.06         | 32.03          | 24.91         | 3           | Horizontal | 321            | 2.90          | -       | 27.33      | 4.70       | -          |
| PK   | 2.4404G      | 118.39            | Inf               | -Inf           | 32.30          | 86.09         | 3           | Horizontal | 321            | 2.90          | -       | 27.52      | 4.78       | -          |
| PK   | 2.494G       | 57.02             | 74.00             | -16.98         | 32.52          | 24.50         | 3           | Horizontal | 321            | 2.90          | -       | 27.68      | 4.84       | -          |

## BT-LE(1Mbps)\_1TX

13/08/2019

### 2440MHz\_TX

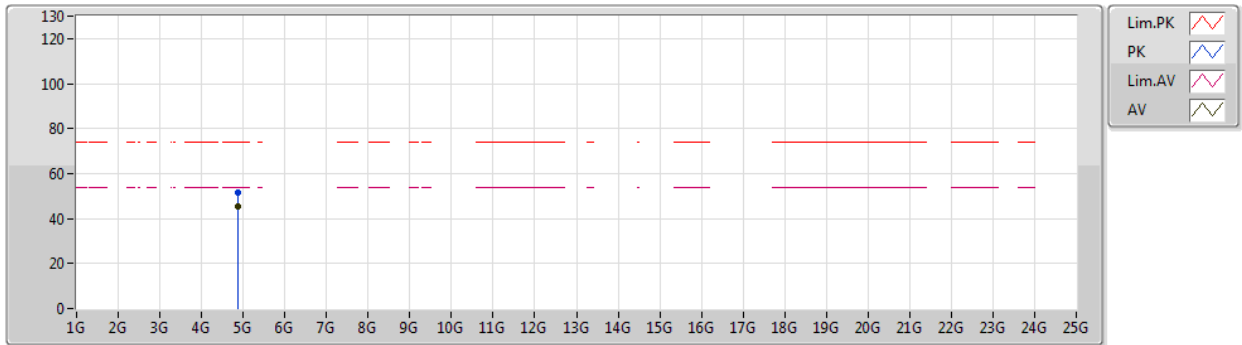


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.87989G     | 38.93             | 54.00             | -15.07         | 3.82           | 35.11         | 3           | Vertical  | 12             | 1.50          | -       | 31.48      | 6.81       | 34.47      |
| PK   | 4.88005G     | 46.45             | 74.00             | -27.55         | 3.82           | 42.63         | 3           | Vertical  | 12             | 1.50          | -       | 31.48      | 6.81       | 34.47      |

# BT-LE(1Mbps)\_1TX

13/08/2019

## 2440MHz\_TX

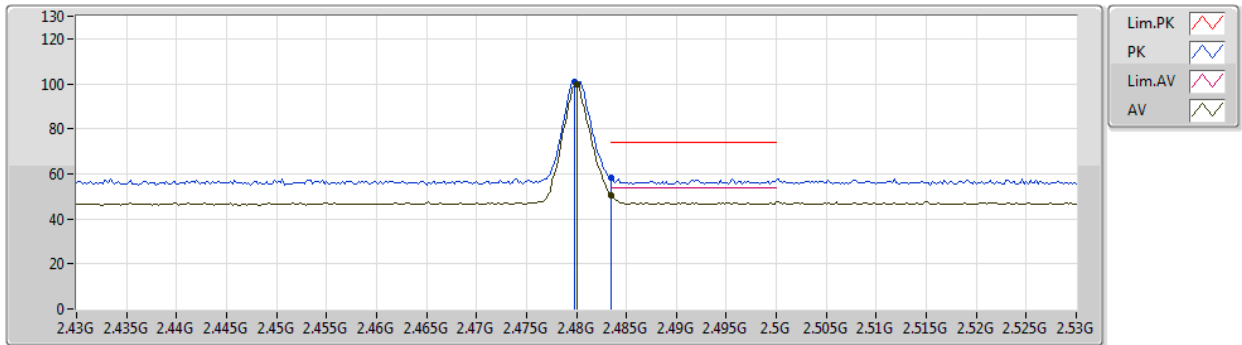


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.87988G     | 45.58             | 54.00             | -8.42          | 3.82           | 41.76         | 3           | Horizontal | 36             | 2.07          | -       | 31.48      | 6.81       | 34.47      |
| PK   | 4.88004G     | 51.47             | 74.00             | -22.53         | 3.82           | 47.65         | 3           | Horizontal | 36             | 2.07          | -       | 31.48      | 6.81       | 34.47      |

# BT-LE(1Mbps)\_1TX

## 2480MHz\_TX

13/08/2019

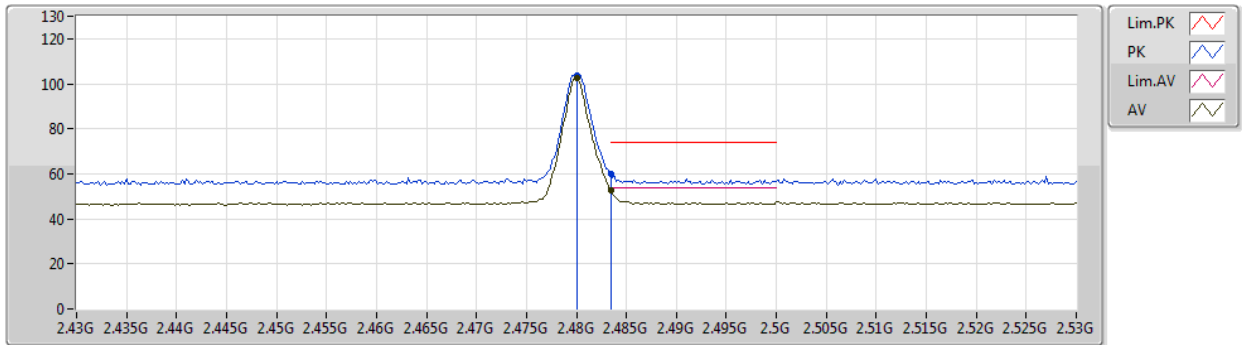


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.48G        | 99.80             | Inf               | -Inf           | 32.46          | 67.34         | 3           | Vertical  | 310            | 2.14          | -       | 27.64      | 4.82       | -          |
| AV   | 2.4835G      | 50.42             | 54.00             | -3.58          | 32.48          | 17.94         | 3           | Vertical  | 310            | 2.14          | -       | 27.65      | 4.83       | -          |
| PK   | 2.4798G      | 100.91            | Inf               | -Inf           | 32.46          | 68.45         | 3           | Vertical  | 310            | 2.14          | -       | 27.64      | 4.82       | -          |
| PK   | 2.4835G      | 58.03             | 74.00             | -15.97         | 32.48          | 25.55         | 3           | Vertical  | 310            | 2.14          | -       | 27.65      | 4.83       | -          |

# BT-LE(1Mbps)\_1TX

## 2480MHz\_TX

13/08/2019

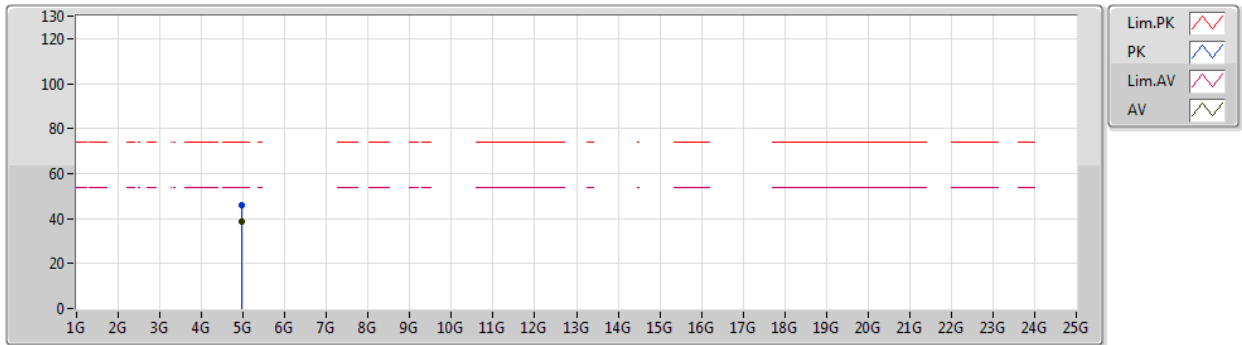


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.48G        | 102.68            | Inf               | -Inf           | 32.46          | 70.22         | 3           | Horizontal | 316            | 2.80          | -       | 27.64      | 4.82       | -          |
| AV   | 2.4835G      | 52.88             | 54.00             | -1.12          | 32.48          | 20.40         | 3           | Horizontal | 316            | 2.80          | -       | 27.65      | 4.83       | -          |
| PK   | 2.48G        | 103.72            | Inf               | -Inf           | 32.46          | 71.26         | 3           | Horizontal | 316            | 2.80          | -       | 27.64      | 4.82       | -          |
| PK   | 2.4835G      | 60.01             | 74.00             | -13.99         | 32.48          | 27.53         | 3           | Horizontal | 316            | 2.80          | -       | 27.65      | 4.83       | -          |

## BT-LE(1Mbps)\_1TX

13/08/2019

### 2480MHz\_TX

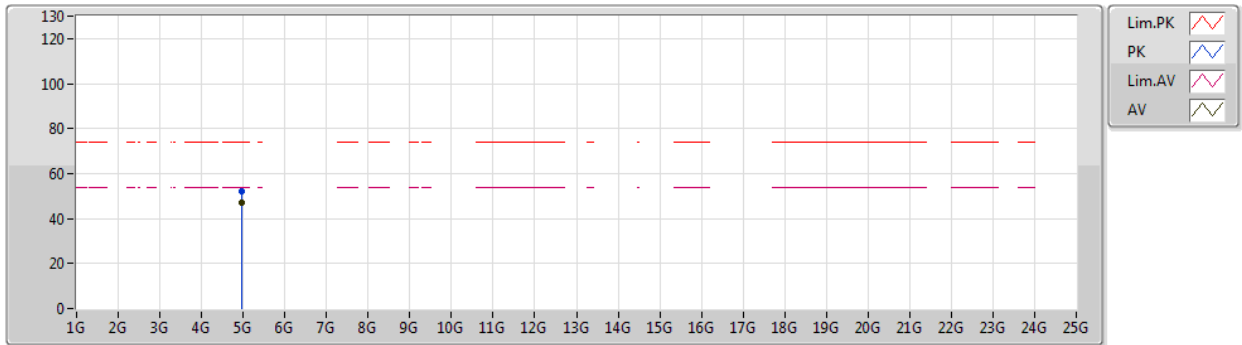


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.95993G     | 38.49             | 54.00             | -15.51         | 4.02           | 34.47         | 3           | Vertical  | 11             | 1.50          | -       | 31.63      | 6.83       | 34.44      |
| PK   | 4.95991G     | 45.93             | 74.00             | -28.07         | 4.02           | 41.91         | 3           | Vertical  | 11             | 1.50          | -       | 31.63      | 6.83       | 34.44      |

## BT-LE(1Mbps)\_1TX

13/08/2019

### 2480MHz\_TX

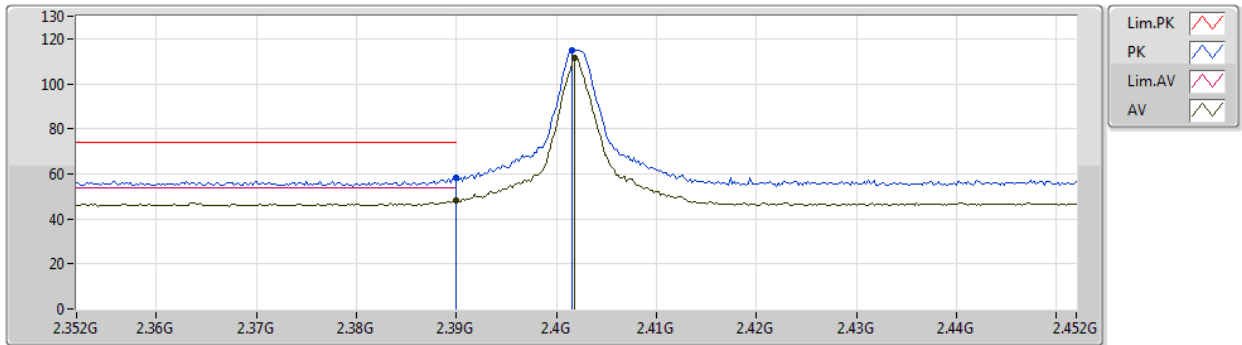


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.95989G     | 47.32             | 54.00             | -6.68          | 4.02           | 43.30         | 3           | Horizontal | 55             | 1.93          | -       | 31.63      | 6.83       | 34.44      |
| PK   | 4.95992G     | 52.25             | 74.00             | -21.75         | 4.02           | 48.23         | 3           | Horizontal | 55             | 1.93          | -       | 31.63      | 6.83       | 34.44      |

# BT-LE(2Mbps)\_1TX

13/08/2019

## 2402MHz\_TX

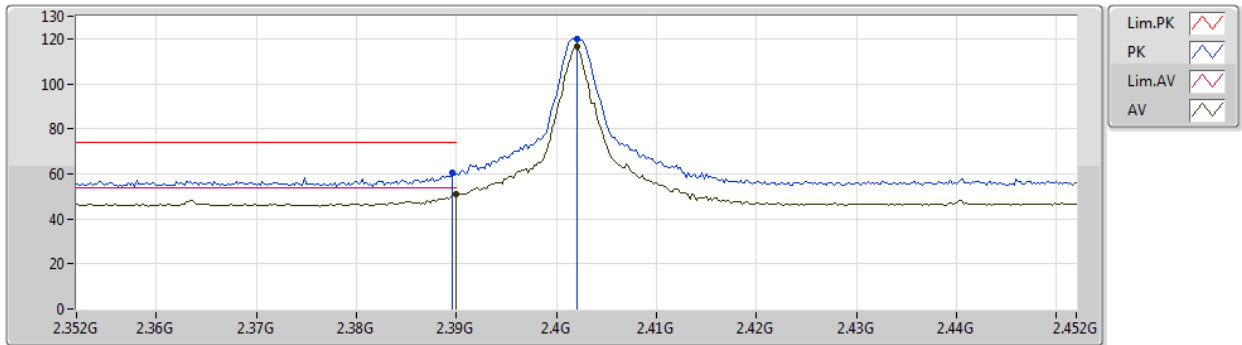


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.39G        | 47.91             | 54.00             | -6.09          | 32.09          | 15.82         | 3           | Vertical  | 318            | 1.84          | -       | 27.37      | 4.72       | -          |
| AV   | 2.4018G      | 111.61            | Inf               | -Inf           | 32.14          | 79.47         | 3           | Vertical  | 318            | 1.84          | -       | 27.41      | 4.73       | -          |
| PK   | 2.39G        | 58.08             | 74.00             | -15.92         | 32.09          | 25.99         | 3           | Vertical  | 318            | 1.84          | -       | 27.37      | 4.72       | -          |
| PK   | 2.4016G      | 115.00            | Inf               | -Inf           | 32.13          | 82.87         | 3           | Vertical  | 318            | 1.84          | -       | 27.40      | 4.73       | -          |

# BT-LE(2Mbps)\_1TX

## 2402MHz\_TX

13/08/2019

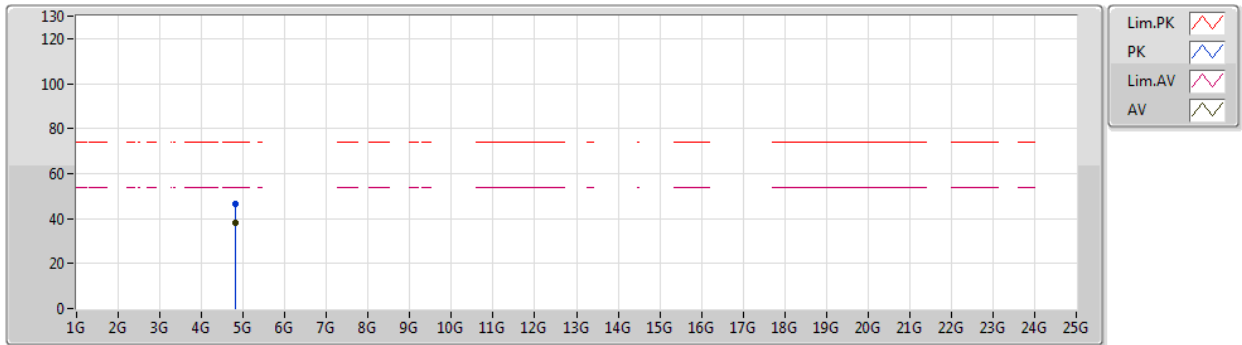


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.39G        | 51.16             | 54.00             | -2.84          | 32.09          | 19.07         | 3           | Horizontal | 314            | 2.99          | -       | 27.37      | 4.72       | -          |
| AV   | 2.402G       | 116.52            | Inf               | -Inf           | 32.14          | 84.38         | 3           | Horizontal | 314            | 2.99          | -       | 27.41      | 4.73       | -          |
| PK   | 2.3896G      | 60.55             | 74.00             | -13.45         | 32.09          | 28.46         | 3           | Horizontal | 314            | 2.99          | -       | 27.37      | 4.72       | -          |
| PK   | 2.402G       | 119.73            | Inf               | -Inf           | 32.14          | 87.59         | 3           | Horizontal | 314            | 2.99          | -       | 27.41      | 4.73       | -          |

# BT-LE(2Mbps)\_1TX

13/08/2019

## 2402MHz\_TX

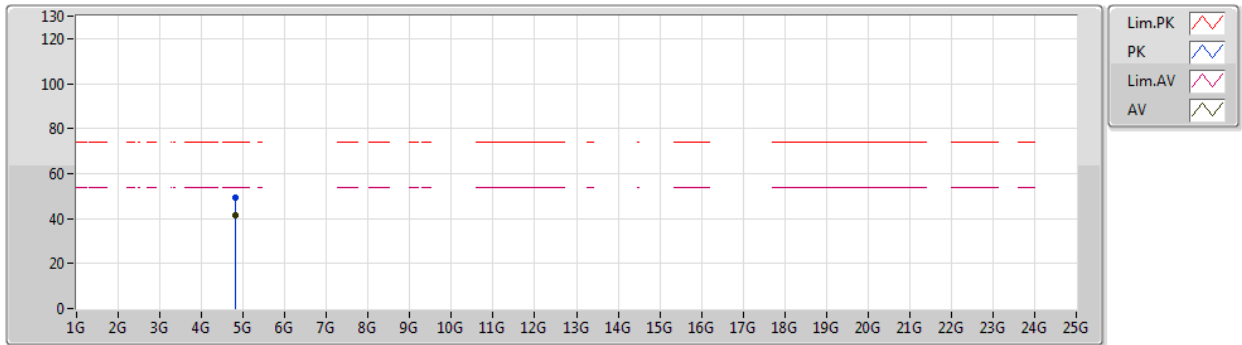


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.80396G     | 38.20             | 54.00             | -15.80         | 3.64           | 34.56         | 3           | Vertical  | 12             | 1.29          | -       | 31.35      | 6.78       | 34.49      |
| PK   | 4.80304G     | 46.27             | 74.00             | -27.73         | 3.64           | 42.63         | 3           | Vertical  | 12             | 1.29          | -       | 31.35      | 6.78       | 34.49      |

## BT-LE(2Mbps)\_1TX

13/08/2019

### 2402MHz\_TX

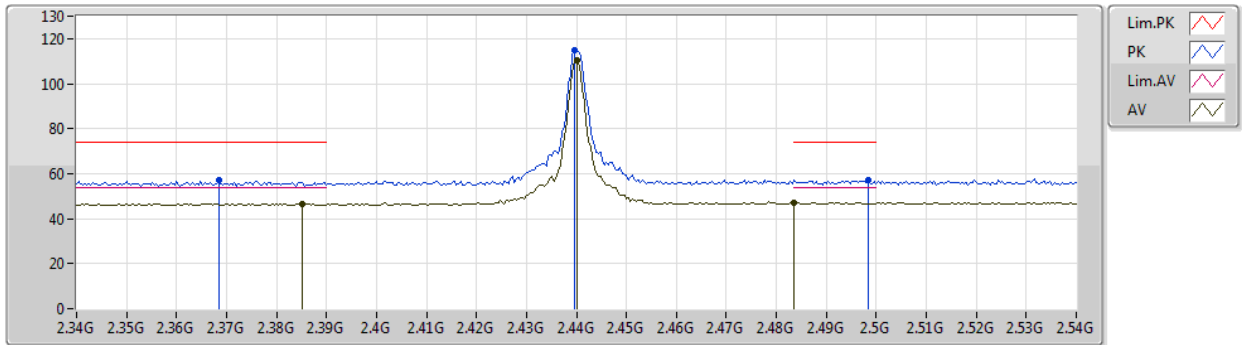


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.80384G     | 41.43             | 54.00             | -12.57         | 3.64           | 37.79         | 3           | Horizontal | 17             | 1.28          | -       | 31.35      | 6.78       | 34.49      |
| PK   | 4.80382G     | 49.06             | 74.00             | -24.94         | 3.64           | 45.42         | 3           | Horizontal | 17             | 1.28          | -       | 31.35      | 6.78       | 34.49      |

## BT-LE(2Mbps)\_1TX

### 2440MHz\_TX

13/08/2019

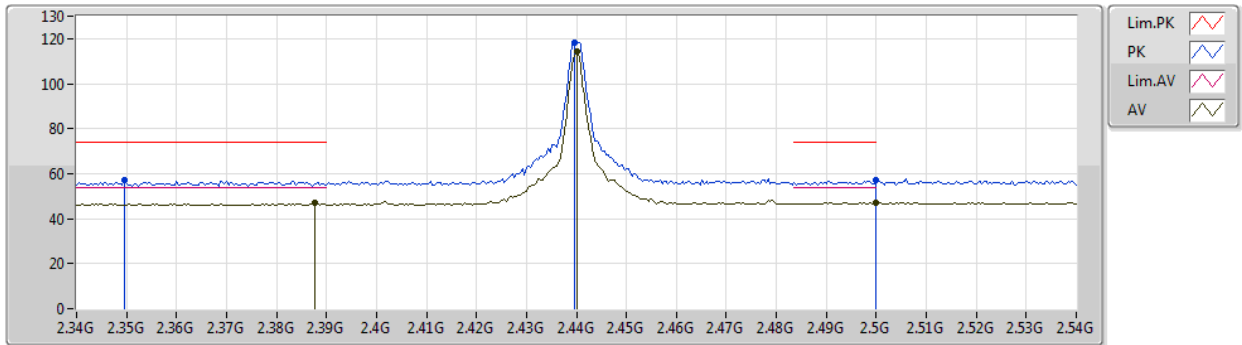


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.3852G      | 46.63             | 54.00             | -7.37          | 32.07          | 14.56         | 3           | Vertical  | 28             | 2.18          | -       | 27.36      | 4.71       | -          |
| AV   | 2.44G        | 110.30            | Inf               | -Inf           | 32.30          | 78.00         | 3           | Vertical  | 28             | 2.18          | -       | 27.52      | 4.78       | -          |
| AV   | 2.4835G      | 47.17             | 54.00             | -6.83          | 32.48          | 14.69         | 3           | Vertical  | 28             | 2.18          | -       | 27.65      | 4.83       | -          |
| PK   | 2.3684G      | 57.03             | 74.00             | -16.97         | 32.00          | 25.03         | 3           | Vertical  | 28             | 2.18          | -       | 27.31      | 4.69       | -          |
| PK   | 2.4396G      | 114.63            | Inf               | -Inf           | 32.30          | 82.33         | 3           | Vertical  | 28             | 2.18          | -       | 27.52      | 4.78       | -          |
| PK   | 2.4984G      | 57.07             | 74.00             | -16.93         | 32.55          | 24.52         | 3           | Vertical  | 28             | 2.18          | -       | 27.70      | 4.85       | -          |

# BT-LE(2Mbps)\_1TX

13/08/2019

## 2440MHz\_TX

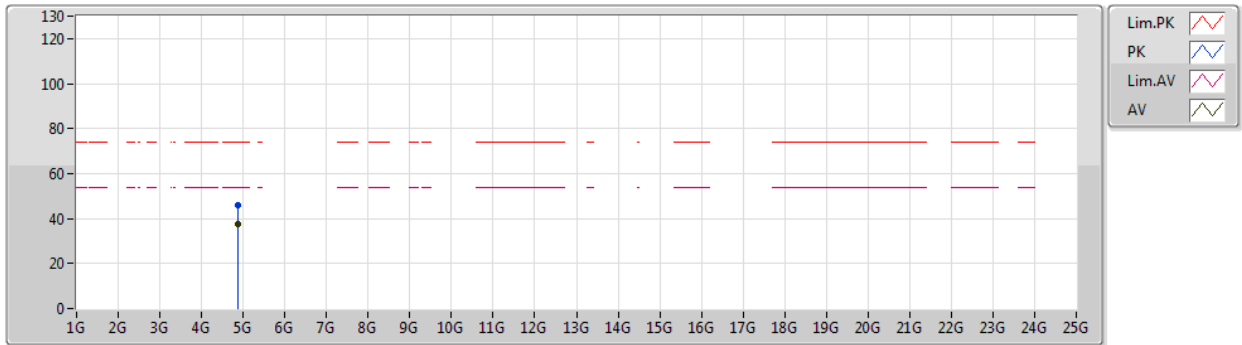


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 2.3876G      | 46.84             | 54.00             | -7.16          | 32.08          | 14.76         | 3           | Horizontal | 318            | 2.88          | -       | 27.36      | 4.72       | -          |
| AV   | 2.44G        | 114.57            | Inf               | -Inf           | 32.30          | 82.27         | 3           | Horizontal | 318            | 2.88          | -       | 27.52      | 4.78       | -          |
| AV   | 2.5G         | 47.23             | 54.00             | -6.77          | 32.55          | 14.68         | 3           | Horizontal | 318            | 2.88          | -       | 27.70      | 4.85       | -          |
| PK   | 2.3496G      | 57.33             | 74.00             | -16.67         | 31.92          | 25.41         | 3           | Horizontal | 318            | 2.88          | -       | 27.25      | 4.67       | -          |
| PK   | 2.4396G      | 118.51            | Inf               | -Inf           | 32.30          | 86.21         | 3           | Horizontal | 318            | 2.88          | -       | 27.52      | 4.78       | -          |
| PK   | 2.5G         | 56.95             | 74.00             | -17.05         | 32.55          | 24.40         | 3           | Horizontal | 318            | 2.88          | -       | 27.70      | 4.85       | -          |

## BT-LE(2Mbps)\_1TX

13/08/2019

### 2440MHz\_TX

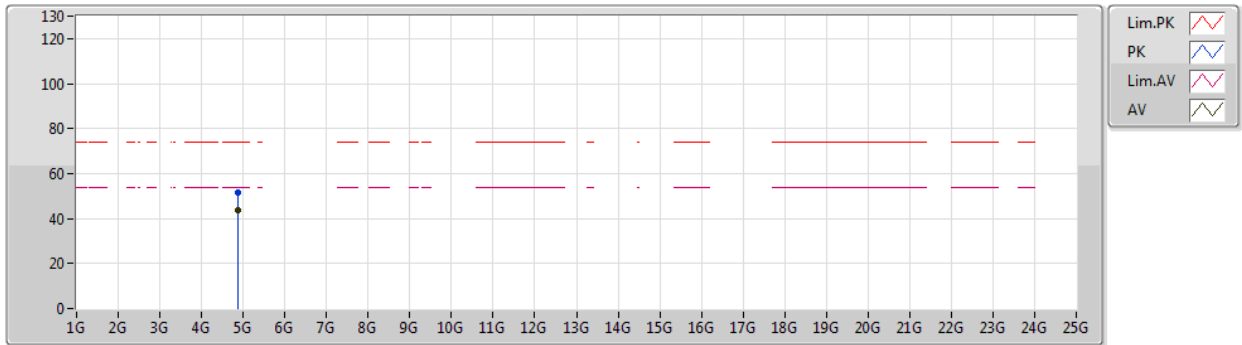


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.87992G     | 37.51             | 54.00             | -16.49         | 3.82           | 33.69         | 3           | Vertical  | 14             | 1.50          | -       | 31.48      | 6.81       | 34.47      |
| PK   | 4.87996G     | 46.06             | 74.00             | -27.94         | 3.82           | 42.24         | 3           | Vertical  | 14             | 1.50          | -       | 31.48      | 6.81       | 34.47      |

## BT-LE(2Mbps)\_1TX

13/08/2019

### 2440MHz\_TX

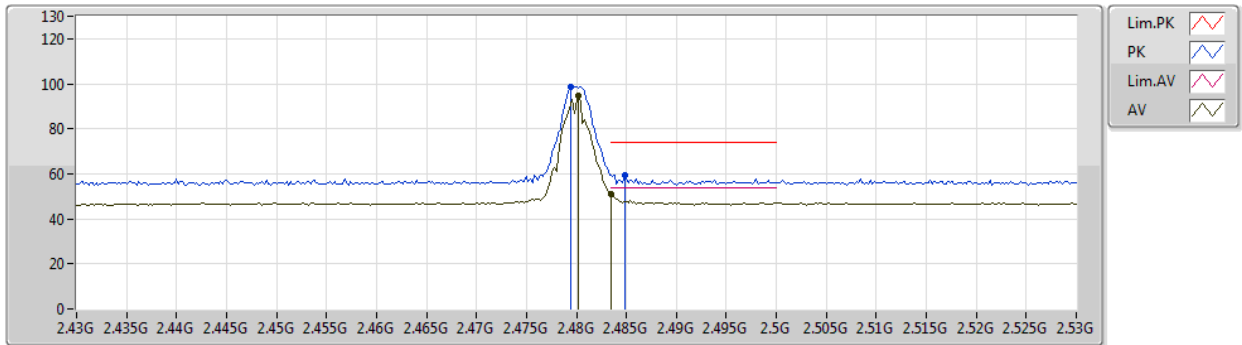


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Raw<br>(dBuV) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| AV   | 4.8798G      | 43.65             | 54.00             | -10.35         | 3.82           | 39.83         | 3           | Horizontal | 35             | 2.01          | -       | 31.48      | 6.81       | 34.47      |
| PK   | 4.87994G     | 51.66             | 74.00             | -22.34         | 3.82           | 47.84         | 3           | Horizontal | 35             | 2.01          | -       | 31.48      | 6.81       | 34.47      |

## BT-LE(2Mbps)\_1TX

### 2480MHz\_TX

13/08/2019

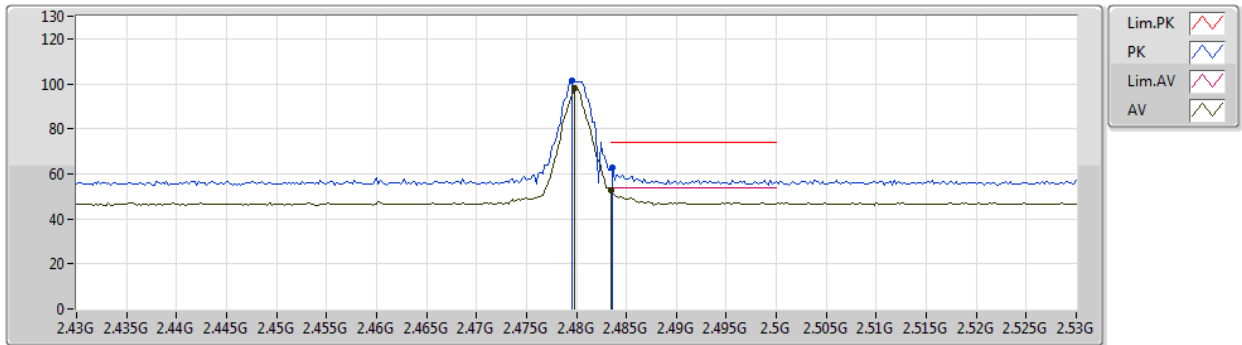


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4802G      | 94.61             | Inf               | -Inf           | 32.46          | 3           | Vertical  | 311            | 1.96          | -       | 62.15         | 27.64      | 4.82       | -          |
| AV   | 2.4835G      | 50.86             | 54.00             | -3.14          | 32.48          | 3           | Vertical  | 311            | 1.96          | -       | 18.38         | 27.65      | 4.83       | -          |
| PK   | 2.4794G      | 98.64             | Inf               | -Inf           | 32.46          | 3           | Vertical  | 311            | 1.96          | -       | 66.18         | 27.64      | 4.82       | -          |
| PK   | 2.4848G      | 59.31             | 74.00             | -14.69         | 32.48          | 3           | Vertical  | 311            | 1.96          | -       | 26.83         | 27.65      | 4.83       | -          |

# BT-LE(2Mbps)\_1TX

## 2480MHz\_TX

13/08/2019

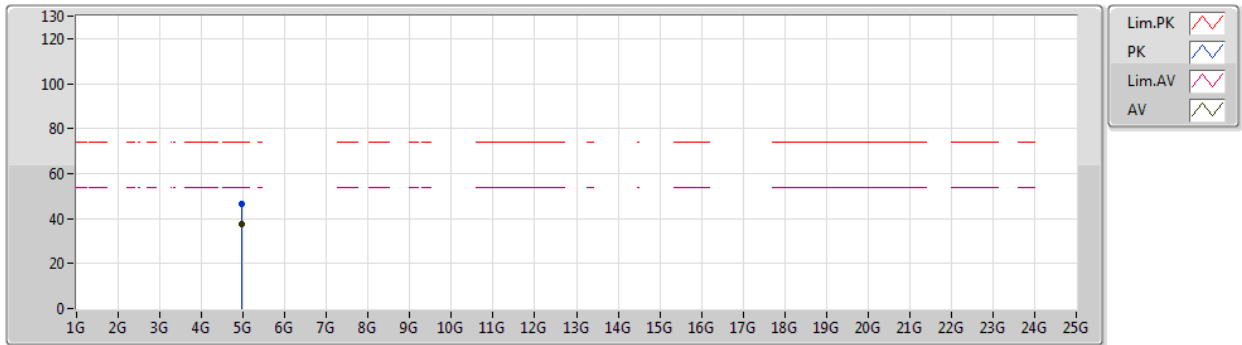


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4798G      | 98.00             | Inf               | -Inf           | 32.46          | 3           | Horizontal | 311            | 1.24          | -       | 65.54         | 27.64      | 4.82       | -          |
| AV   | 2.4835G      | 52.55             | 54.00             | -1.45          | 32.48          | 3           | Horizontal | 311            | 1.24          | -       | 20.07         | 27.65      | 4.83       | -          |
| PK   | 2.4796G      | 101.16            | Inf               | -Inf           | 32.46          | 3           | Horizontal | 311            | 1.24          | -       | 68.70         | 27.64      | 4.82       | -          |
| PK   | 2.4836G      | 62.72             | 74.00             | -11.28         | 32.48          | 3           | Horizontal | 311            | 1.24          | -       | 30.24         | 27.65      | 4.83       | -          |

## BT-LE(2Mbps)\_1TX

13/08/2019

### 2480MHz\_TX

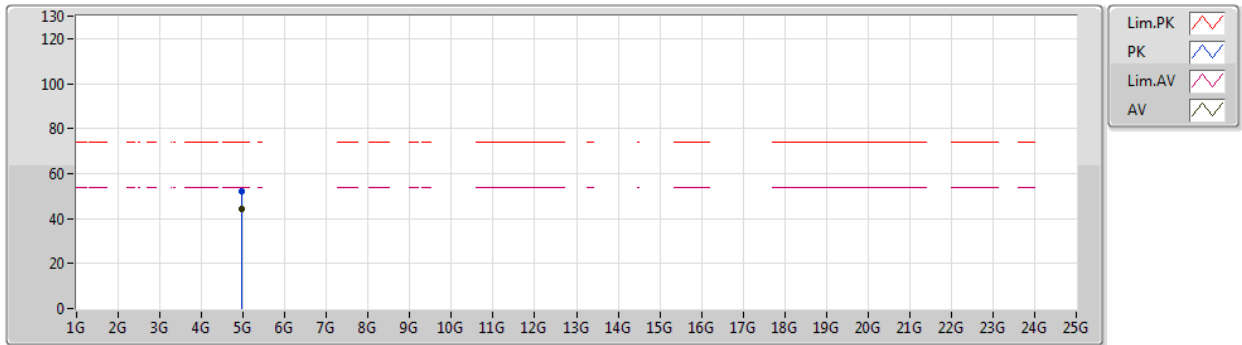


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.96002G     | 37.64             | 54.00             | -16.36         | 4.02           | 3           | Vertical  | 3              | 1.10          | -       | 33.62         | 31.63      | 6.83       | 34.44      |
| PK   | 4.96015G     | 46.25             | 74.00             | -27.75         | 4.02           | 3           | Vertical  | 3              | 1.10          | -       | 42.23         | 31.63      | 6.83       | 34.44      |

## BT-LE(2Mbps)\_1TX

13/08/2019

### 2480MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.95984G     | 44.54             | 54.00             | -9.46          | 4.02           | 3           | Horizontal | 50             | 1.79          | -       | 40.52         | 31.63      | 6.83       | 34.44      |
| PK   | 4.95994G     | 52.38             | 74.00             | -21.62         | 4.02           | 3           | Horizontal | 50             | 1.79          | -       | 48.36         | 31.63      | 6.83       | 34.44      |