

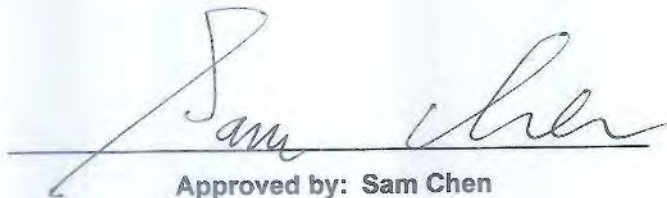


# RADIO TEST REPORT

**FCC ID** : TLZ-AM457-D  
**Equipment** : IEEE 802.11 1X1 a/b/g/n Wireless LAN + Bluetooth 5.1 Combo LGA Module  
**Brand Name** : AzureWave  
**Model Name** : AW-AM457-D  
**Applicant** : AzureWave Technologies, Inc.  
8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231  
**Manufacturer** : AzureWave Technologies, Inc.  
8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Dec. 26, 2020, and testing was started from Dec. 26, 2020 and completed on Feb. 23, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

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



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### Photographs of EUT v01



### History of this test report

Report No.	Version	Description	Issued Date
FR0D1814AB	01	Initial issue of report	Apr. 19, 2021
FR0D1814AB	02	Revised the FCC test site designation no. on section 1.3.	Apr. 20, 2021



### 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:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Sam Chen**

**Report Producer: Wendy Pan**



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500Kb/s)	1.0	1TX
2.4-2.4835GHz	BT-LE(125Kb/s)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:

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

### 1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	Molex	1461531050	Dipole	I-PEX	Note 1
Ant.	Port	Brand Holder	Model Name	Antenna Type	Connector	Gain (dBi)
2	1	MAG. LAYERS SCIENTIFIC-TECHNI CS CO., LTD	MSA-4008-25GC1-A2	PIFA	I-PEX	Note 1

Note1:

Ant.	Antenna Gain (dBi)		
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth
1	3.2	4.25	3.2
2	2.98	5.16	2.98

Note2: The above information was declared by manufacturer.

For conducted test, only the highest antenna gain has been tested and recorded in the test report.

For AC Power-line Conducted Emissions and radiated test, Ant.1 ~ Ant.2 antenna has been tested and recorded in the test report.

The EUT has two sets of antenna type and there are two antennas for each set and on the EUT has two antenna connectors and support different functions separately, one port is WLAN function and the other port is bluetooth function.



**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-LE(1Mbps)	0.624	2.05	390u	3k

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

**1.1.4 EUT Operational Condition**

<b>EUT Power Type</b>	From host system		
<b>Function</b>	<input checked="" type="checkbox"/> Point-to-multipoint	<input type="checkbox"/> Point-to-point	
<b>Test Software Version</b>	DutApiSisoBt V1.0.0.09		
<b>Support Mode</b>	<input checked="" type="checkbox"/> LE 1M PHY: 1 Mb/s		
	<input checked="" type="checkbox"/> LE Coded PHY (S=2): 500 Kb/s		
	<input checked="" type="checkbox"/> LE Coded PHY (S=8): 125 Kb/s		
	<input checked="" type="checkbox"/> LE 2M PHY: 2 Mb/s		

Note: The above information was declared by manufacturer.

**1.1.5 Table for Multiple Listing**

The difference for each EUT is shown as below:

Model Name	EUT	Diplexer Brand	Low power filter Brand
AW-AM457-D	EUT 1	Murata	Murata
	EUT 2	Murata	Walsin
	EUT 3	Walsin	Murata
	EUT 4	Walsin	Walsin



### 1.2 Applicable Standards

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

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

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

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

### 1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065      FAX: 886-3-656-9085
Test site Designation No. TW3787 with FCC.	
Test site registered number IC 4086D with Industry Canada.	

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Jeff Wu	23.3-23.8 / 46-47	Jan. 16, 2021 ~ Jan. 27, 2021
Radiated<1GHz	03CH05-CB	Cola Fan	20.4-21.4 / 55-57	Feb. 09, 2021
Radiated>1GHz	03CH02-CB	Lance Wu	22.3-23.6 / 56-58	Dec. 26, 2020 ~ Feb. 18, 2021
AC Conduction	CO01-CB	Max Lin	22~23 / 56~57	Feb. 23, 2021



## 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)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.9 dB	Confidence levels of 95%
Conducted Emission	2.8 dB	Confidence levels of 95%
Output Power Measurement	1.4 dB	Confidence levels of 95%
Power Density Measurement	2.8 dB	Confidence levels of 95%
Bandwidth Measurement	0.4%	Confidence levels of 95%





## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	4
2440MHz	4
2480MHz	4



## 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral
<b>Operating Mode</b>	Normal Link
1	EUT 1 + WLAN 2.4GHz + Bluetooth + Dipole antenna
2	EUT 1 + WLAN 5GHz + Bluetooth + Dipole antenna
Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 ~ 5 will follow this same test mode.	
3	EUT 2 + WLAN 2.4GHz + Bluetooth + Dipole antenna
4	EUT 3 + WLAN 2.4GHz + Bluetooth + Dipole antenna
5	EUT 4 + WLAN 2.4GHz + Bluetooth + Dipole antenna
Mode 1 has been evaluated to be the worst case among Mode 1~5, thus measurement for Mode 6 will follow this same test mode.	
6	EUT 1 + WLAN 2.4GHz + Bluetooth + PIFA antenna
For operating mode 1 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
<b>Test Condition</b>	Conducted measurement at transmit chains The EUT 4 has been evaluated to be the worst-case from EUT 1~EUT 4. Therefore, the EUT 4 has selected to test.
1	EUT 4 + Ant.1



<b>The Worst Case Mode for Following Conformance Tests</b>	
<b>Tests Item</b>	Emissions in Restricted Frequency Bands
<b>Test Condition</b>	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
<b>Operating Mode &lt; 1GHz</b>	Normal Link
1	EUT 1 in Z axis + WLAN 2.4GHz + Bluetooth + Dipole antenna
2	EUT 1 in Y axis + WLAN 2.4GHz + Bluetooth + Dipole antenna
Mode 2 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT 1 in Y axis + WLAN 5GHz + Bluetooth + Dipole antenna
Mode 2 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4~6 will follow this same test mode.	
4	EUT 2 in Y axis + WLAN 2.4GHz + Bluetooth + Dipole antenna
5	EUT 3 in Y axis + WLAN 2.4GHz + Bluetooth + Dipole antenna
6	EUT 4 in Y axis + WLAN 2.4GHz + Bluetooth + Dipole antenna
Mode 4 has been evaluated to be the worst case among Mode 1~6, thus measurement for Mode 7 will follow this same test mode.	
7	EUT 2 in Y axis + WLAN 2.4GHz + Bluetooth + PIFA antenna
For operating mode 4 is the worst case and it was record in this test report.	
<b>Operating Mode &gt; 1GHz</b>	CTX
	The EUT 4 has been evaluated to be the worst-case from EUT 1~EUT 4. Therefore, the EUT 4 has selected to test. The EUT 4 was performed at X axis, Y axis and Z axis position, and the worst case as below:
1	EUT 4 + Ant.1 (Bandedge at Z axis / Radiated emission at X axis)
2	EUT 4 + Ant.2 (Bandedge at X axis / Radiated emission at Y axis)

<b>The Worst Case Mode for Following Conformance Tests</b>	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
<b>Operating Mode</b>	
1	Bluetooth + WLAN 2.4GHz
2	Bluetooth + WLAN 5GHz
Refer to Sporton Test Report No.: FA0D1814 for Co-location RF Exposure Evaluation.	



### 2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

### 2.4 Accessories

N/A

### 2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E6430	N/A
B	Fixture	AzureWave	AW2457-15	N/A
C	AP Router	ASUS	RP-N53	N/A
D	Earphone	SHYARO CHI	MIC-04	N/A
E	Mouse	HP	FM100	N/A
F	iPad	Apple	A1430	BCGA1430
G	AP Router NB	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	WLAN AP	D-LINK	DIR860L	KA2IR860LA1
D	iPad	Apple	A1430	BCGA1430
E	Earphone	SHYARO CHI	MIC-04	N/A
F	Mouse	Logitech	M-U0026	N/A
G	Fixture	AzureWave	AW2457-15	N/A



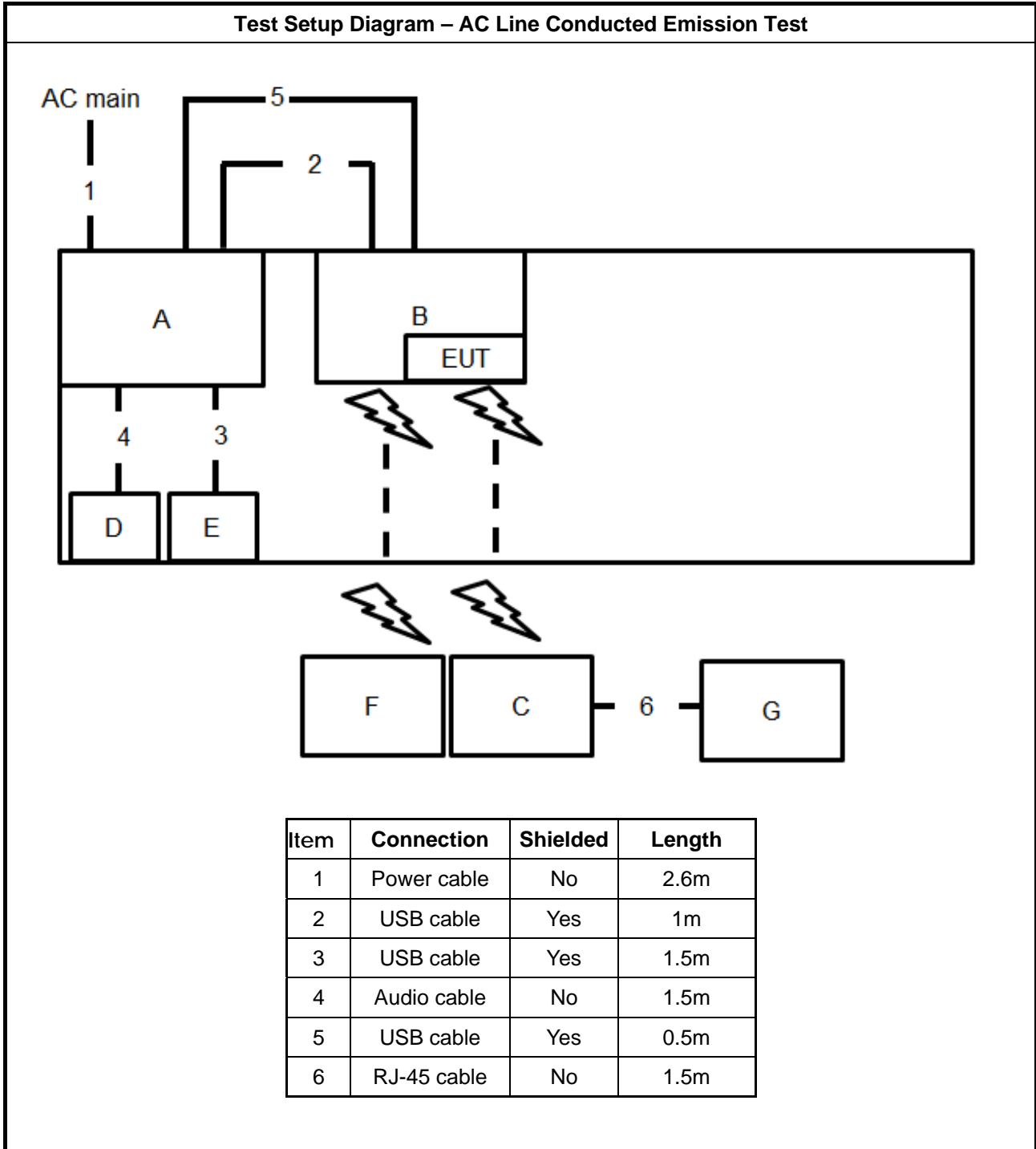
**For Radiated (above 1GHz):**

<b>Support Equipment</b>				
<b>No.</b>	<b>Equipment</b>	<b>Brand Name</b>	<b>Model Name</b>	<b>FCC ID</b>
A	Fixture	AzureWave	AW2457-15	N/A
B	Notebook	DELL	E4300	N/A
C	Notebook	DELL	E4300	N/A

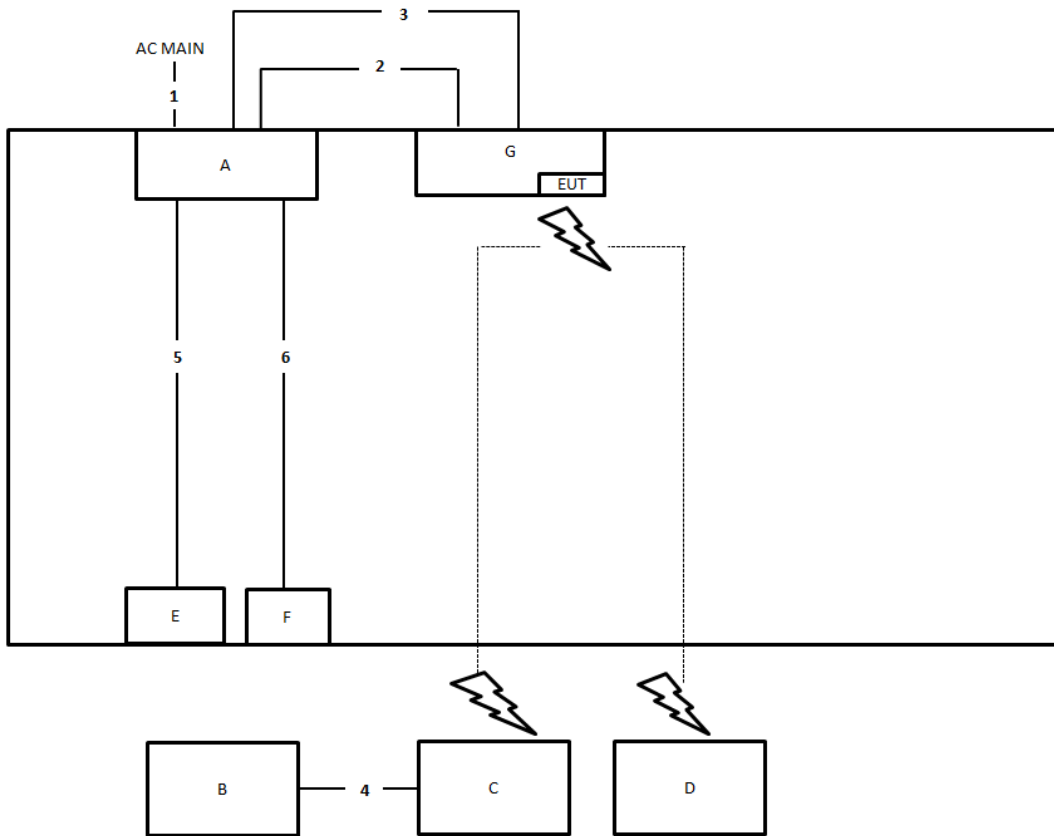
**For RF Conducted:**

<b>Support Equipment</b>				
<b>No.</b>	<b>Equipment</b>	<b>Brand Name</b>	<b>Model Name</b>	<b>FCC ID</b>
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	Fixture	AzureWave	AW2457-15	N/A

## 2.6 Test Setup Diagram

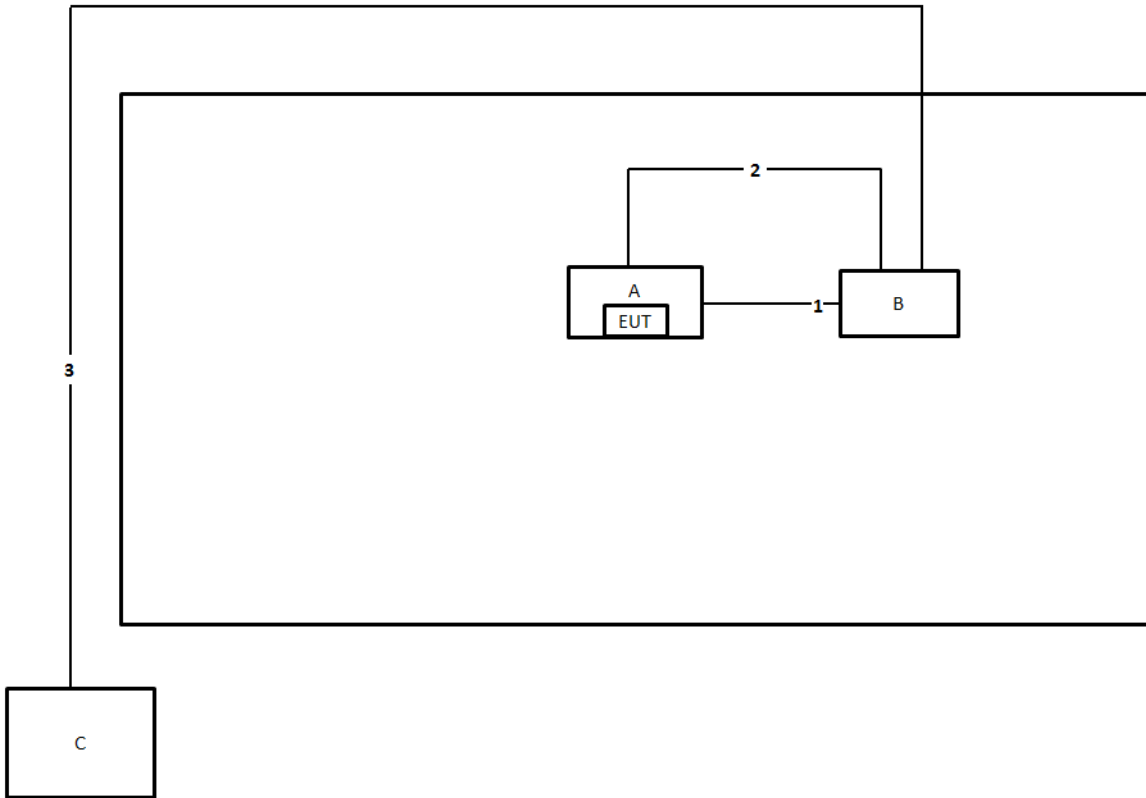


**Test Setup Diagram - Radiated Test < 1GHz**



Item	Connection	Shielded	Length
1	Power cable	No	2.6m
2	USB cable	Yes	0.5m
3	USB cable	Yes	1m
4	RJ-45 cable	No	1.5m
5	Audio cable	No	1.2m
6	USB cable	Yes	1.8m

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



Item	Connection	Shielded	Length
1	USB cable	Yes	0.5m
2	USB cable	Yes	1m
3	RJ-45 cable	No	10m





### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

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

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: \* Decreases with the logarithm of the frequency.

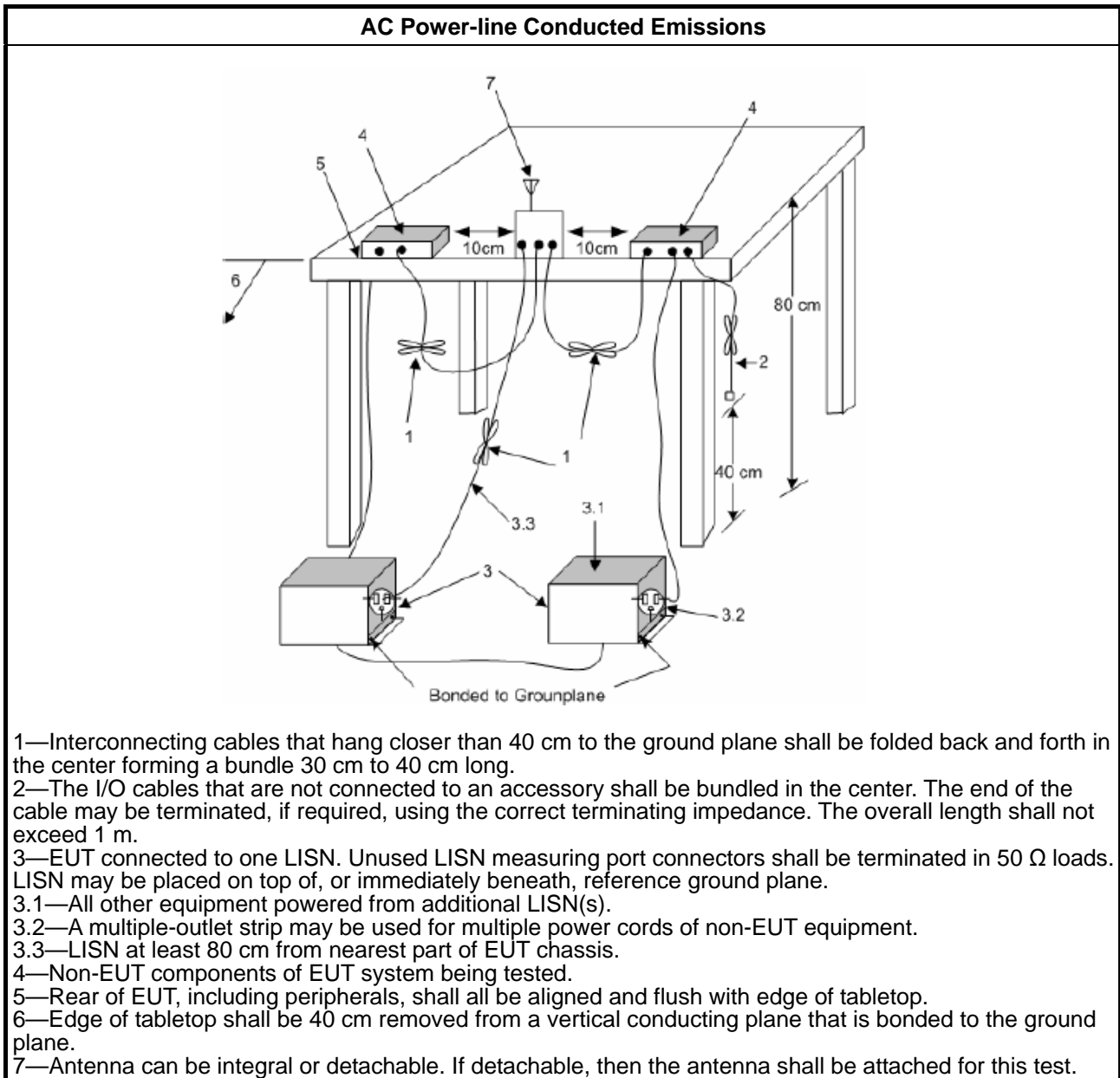
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

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

**3.1.4 Test Setup**



**1.1.1. Measurement Results Calculation**

The measured Level is calculated using:

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

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

Refer as Appendix A

### 3.2 DTS Bandwidth

#### 3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
<b>Systems using digital modulation techniques:</b>
<ul style="list-style-type: none"> <li>▪ 6 dB bandwidth <math>\geq</math> 500 kHz.</li> </ul>

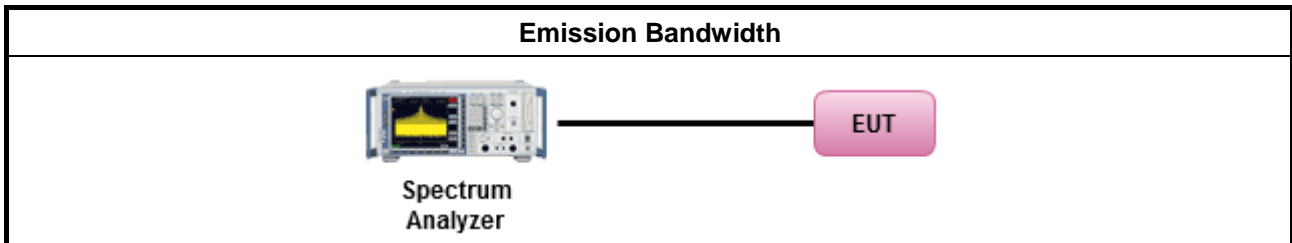
#### 3.2.2 Measuring Instruments

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

#### 3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>▪ For the emission bandwidth shall be measured using one of the options below:</li> </ul>
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 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>
<p><math>P_{Out}</math> = maximum peak conducted output power or maximum conducted output power in dBm,  <math>G_{TX}</math> = the maximum transmitting antenna directional gain in dBi.</p>	

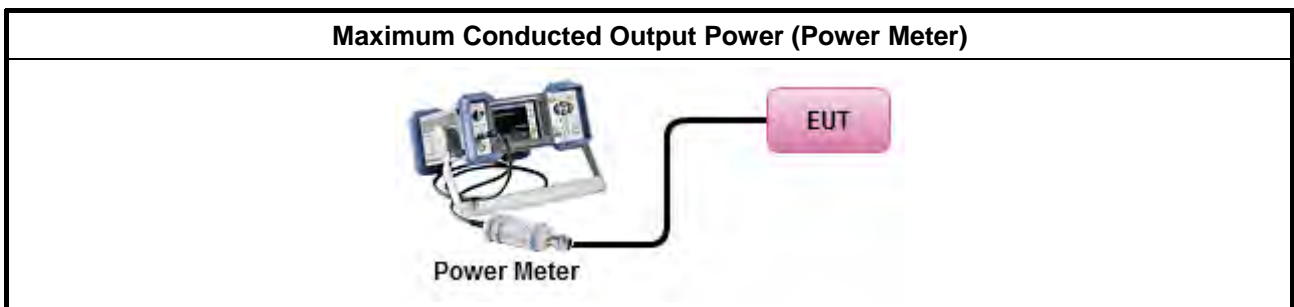
#### 3.3.2 Measuring Instruments

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

**3.3.3 Test Procedures**

<b>Test Method</b>	
<ul style="list-style-type: none"> <li>▪ Maximum Peak Conducted Output Power</li> </ul>	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> <li>▪ Maximum Conducted Output Power</li> </ul>	
[duty cycle ≥ 98% or external video / power trigger]	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
<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: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ If multiple transmit chains, EIRP calculation could be following as methods:  <math display="block">P_{total} = P_1 + P_2 + \dots + P_n</math>                     (calculated in linear unit [mW] and transfer to log unit [dBm])  <math display="block">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
<ul style="list-style-type: none"> <li>Power Spectral Density (PSD) ≤ 8 dBm/3kHz</li> </ul>

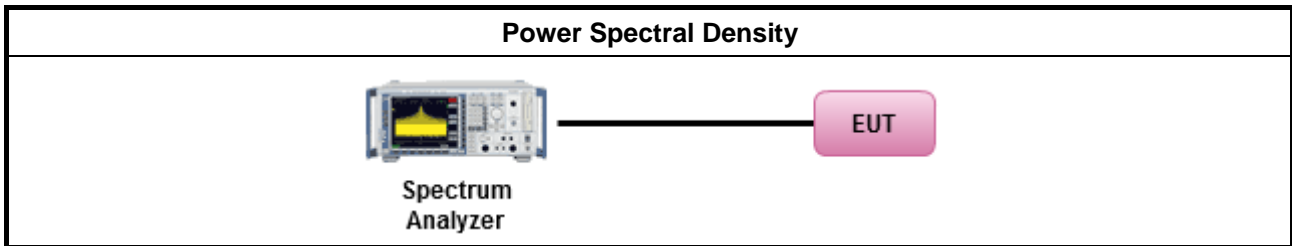
#### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>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).</li> </ul>
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD. [duty cycle ≥ 98% or external video / power trigger]
<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: <ul style="list-style-type: none"> <li><input type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.</li> <li><input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,</li> <li><input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.</li> </ul> </li> </ul>

### 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 (dBc)
Peak output power procedure	20
Average output power procedure	30

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

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

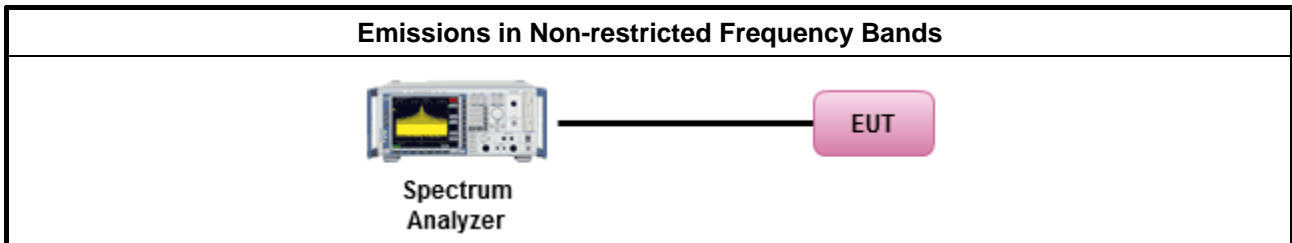
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted 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

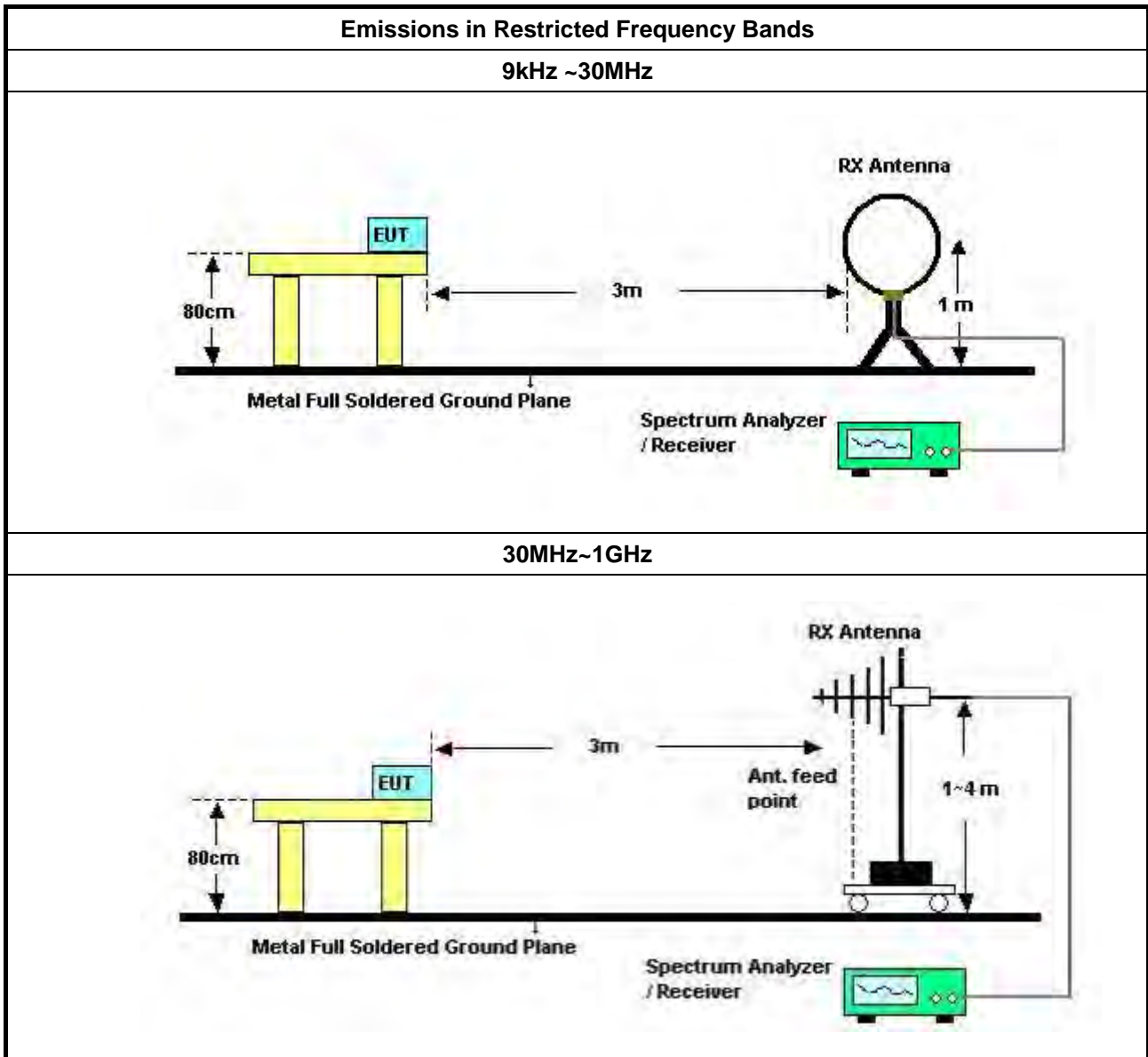
Refer a test equipment and calibration data table in this test report.

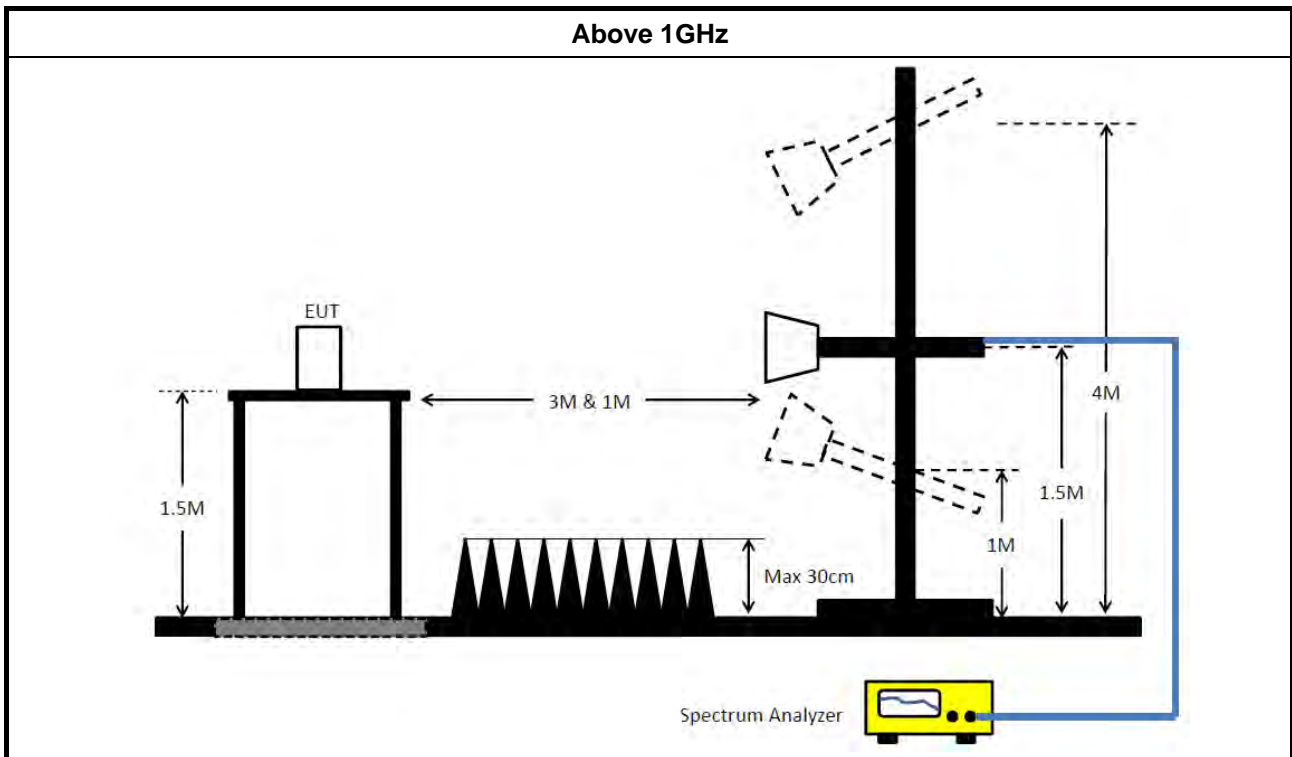


**3.6.3 Test Procedures**

<b>Test Method</b>	
<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 FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.</li> </ul>
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq$ 98%).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq$ 1/T).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<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 FCC KDB 558074 clause 8.7 &amp; c63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).</li> </ul>
	<ul style="list-style-type: none"> <li>▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below:                (1) Measure and sum the spectra across the outputs or                (2) Measure and add 10 log(N) dB             </li> </ul>
	<ul style="list-style-type: none"> <li>▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.</li> </ul>

**3.6.4 Test Setup**





### 3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

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

Refer as Appendix F



## 4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 2022	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 20, 2020	May 19, 2021	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 10, 2020	Aug. 09, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 27, 2020	Mar. 26, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 28, 2020	Apr. 27, 2021	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz 3m	Mar. 28, 2020	Mar. 27, 2021	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 21, 2020	Apr. 20, 2021	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 13, 2020	Jul. 12, 2021	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 15, 2020	Oct. 14, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	May 14, 2020	May 13, 2021	Conducted (TH03-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 31, 2020	Dec. 30, 2021	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 17, 2020	Aug. 16, 2021	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 17, 2020	Aug. 16, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

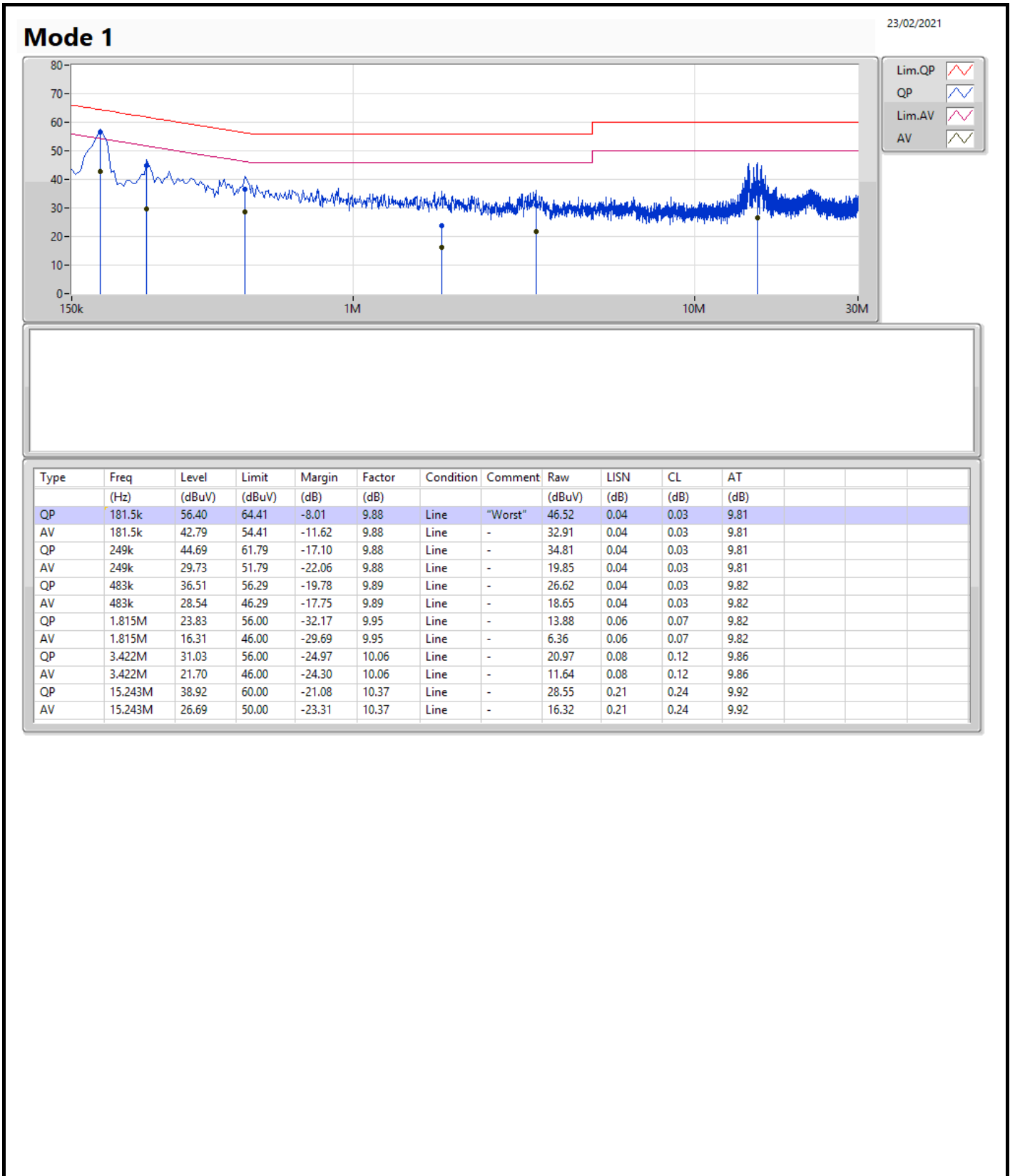
N.C.R. means Non-Calibration required.

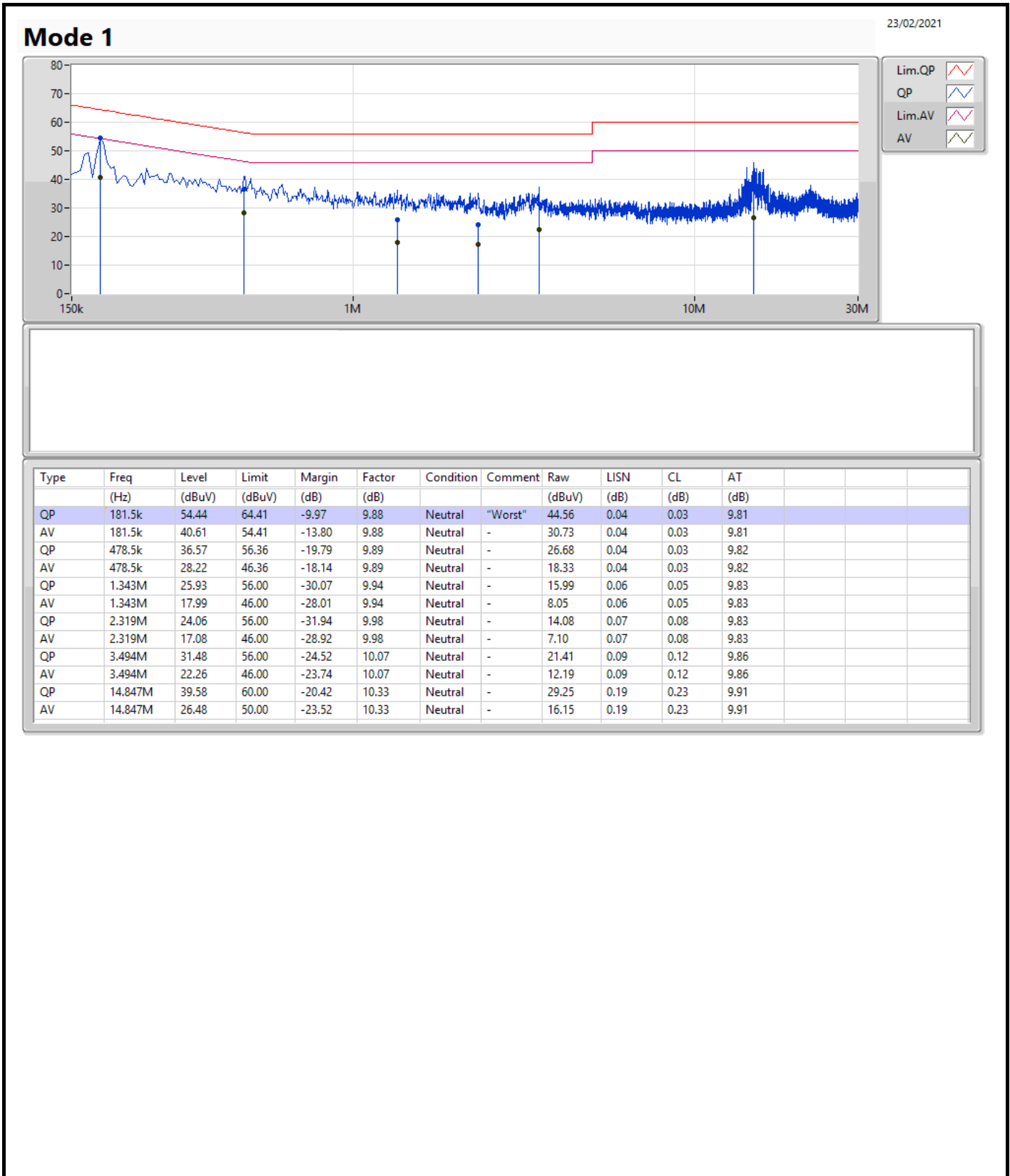


**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	181.5k	56.40	64.41	-8.01	Line









Summary

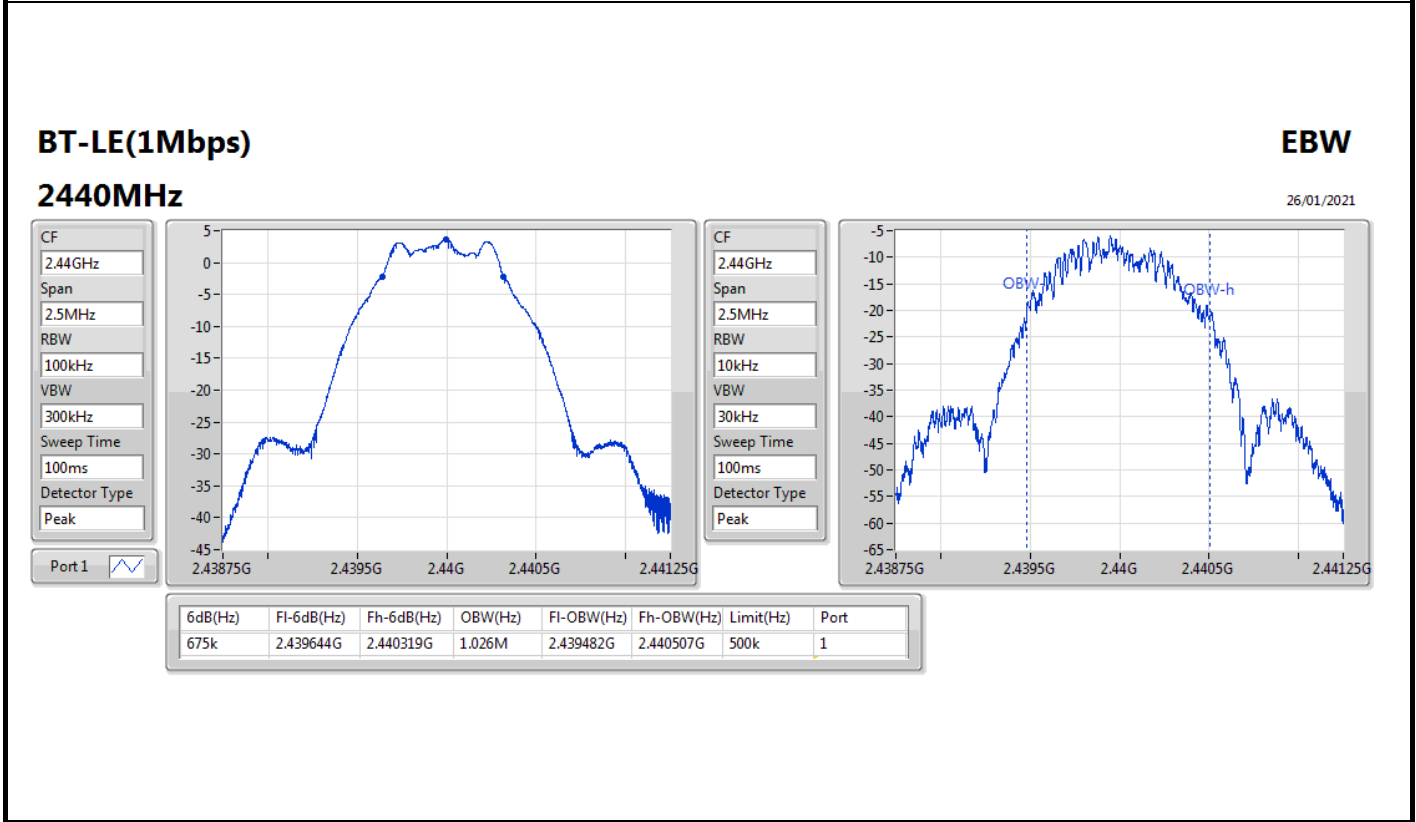
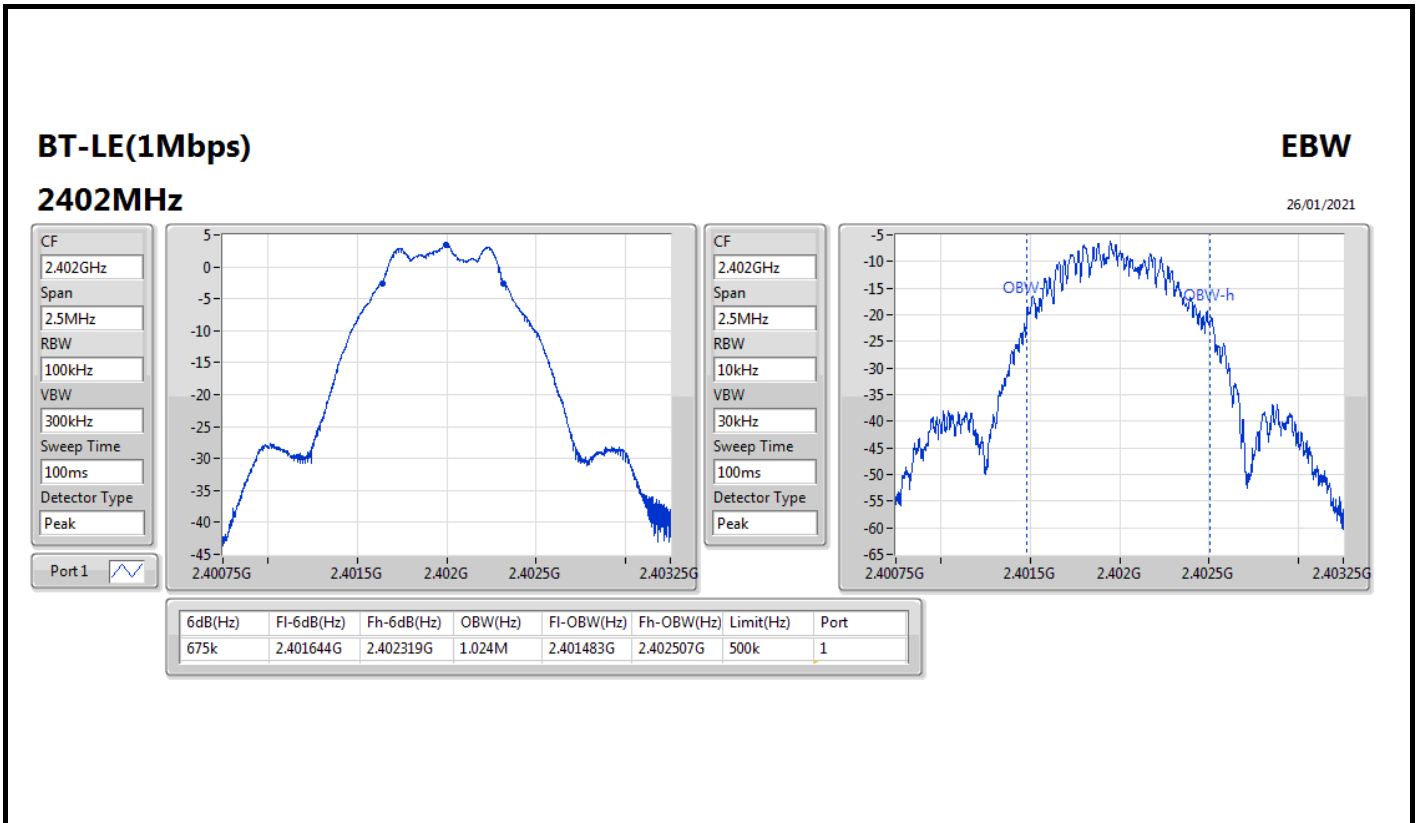
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	675k	1.026M	1M03F1D	672.5k	1.023M

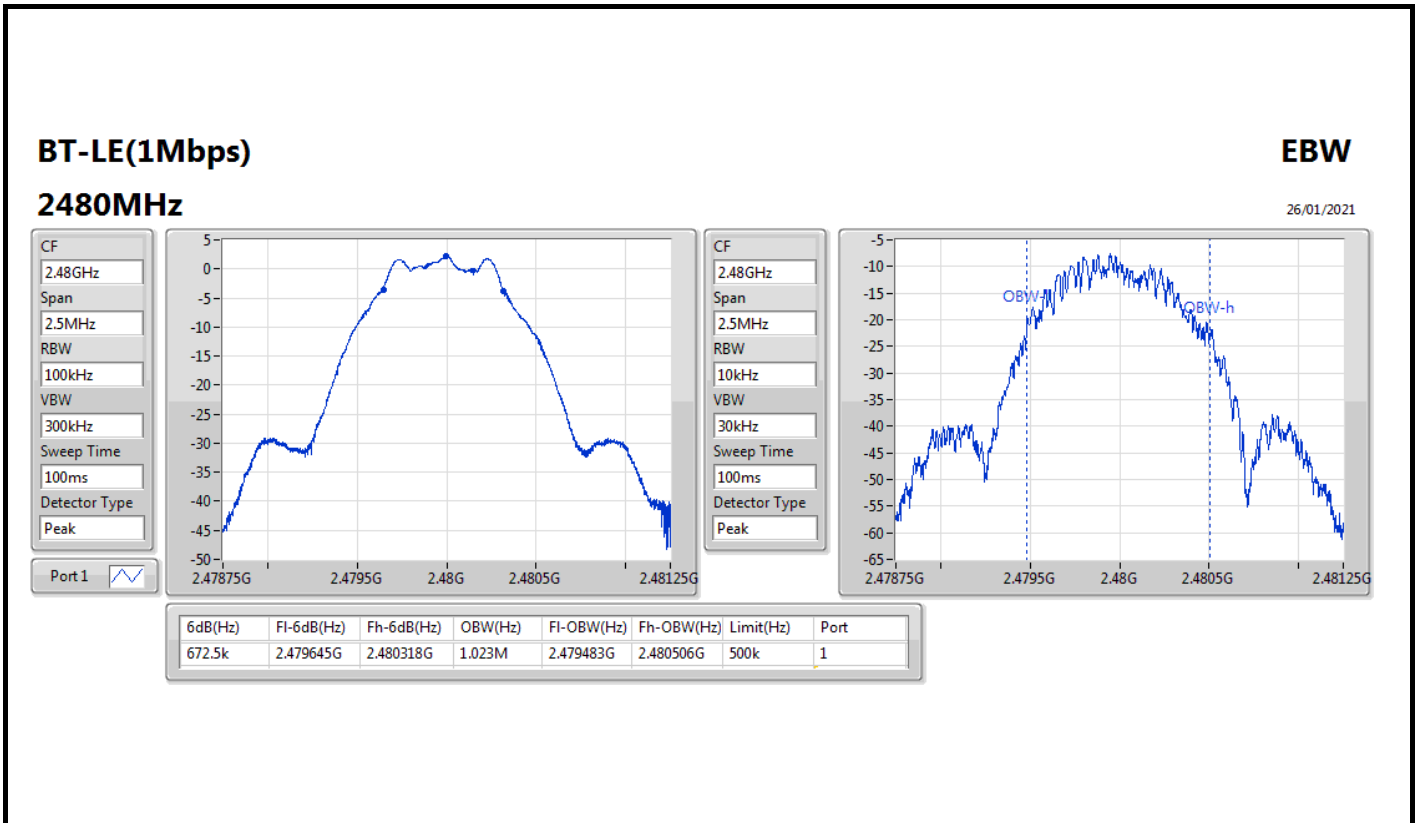
**Max-N dB** = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;  
**Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	675k	1.024M
2440MHz	Pass	500k	675k	1.026M
2480MHz	Pass	500k	672.5k	1.023M

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







Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(2Mbps)	1.163M	2.049M	2M05F1D	1.163M	2.046M

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

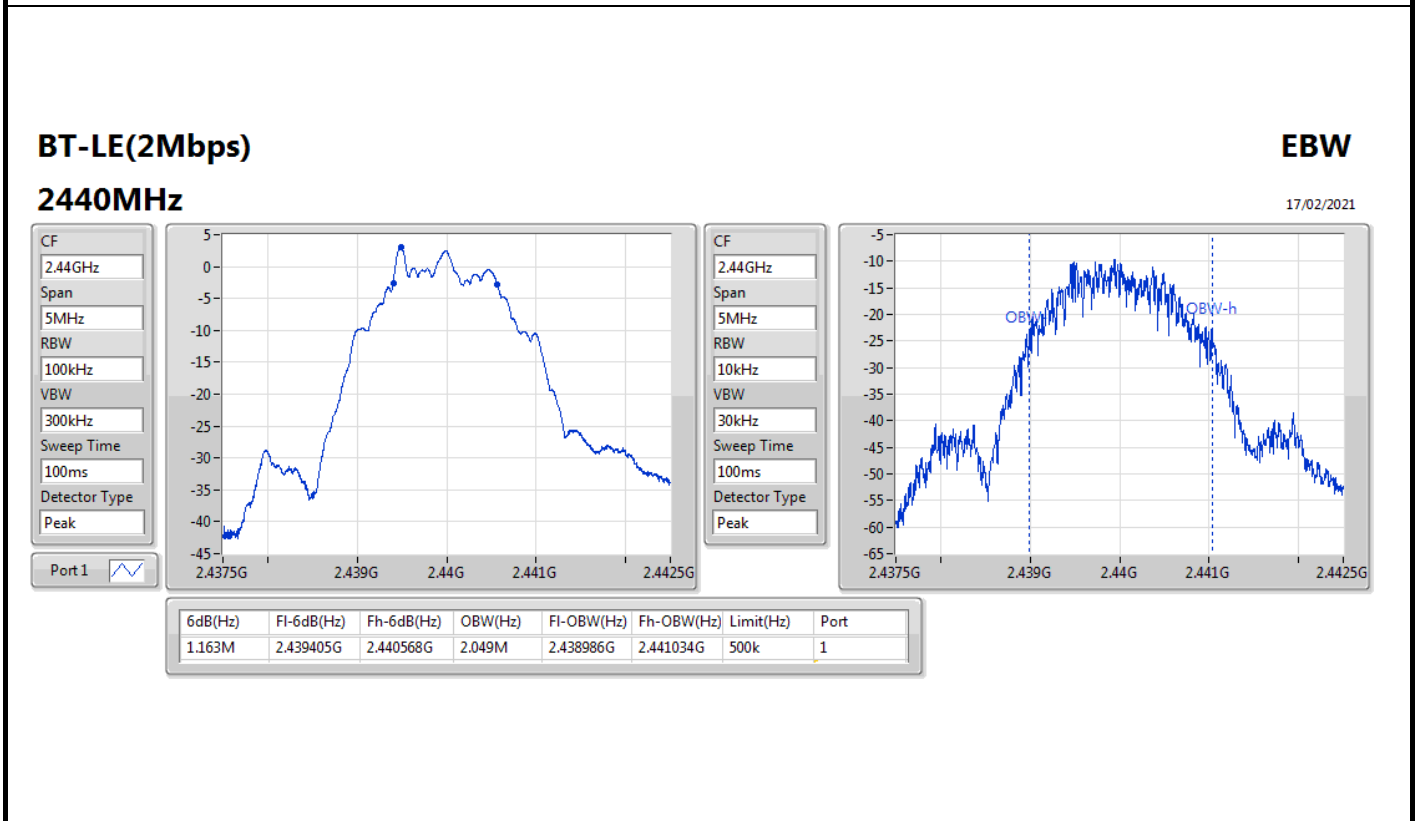
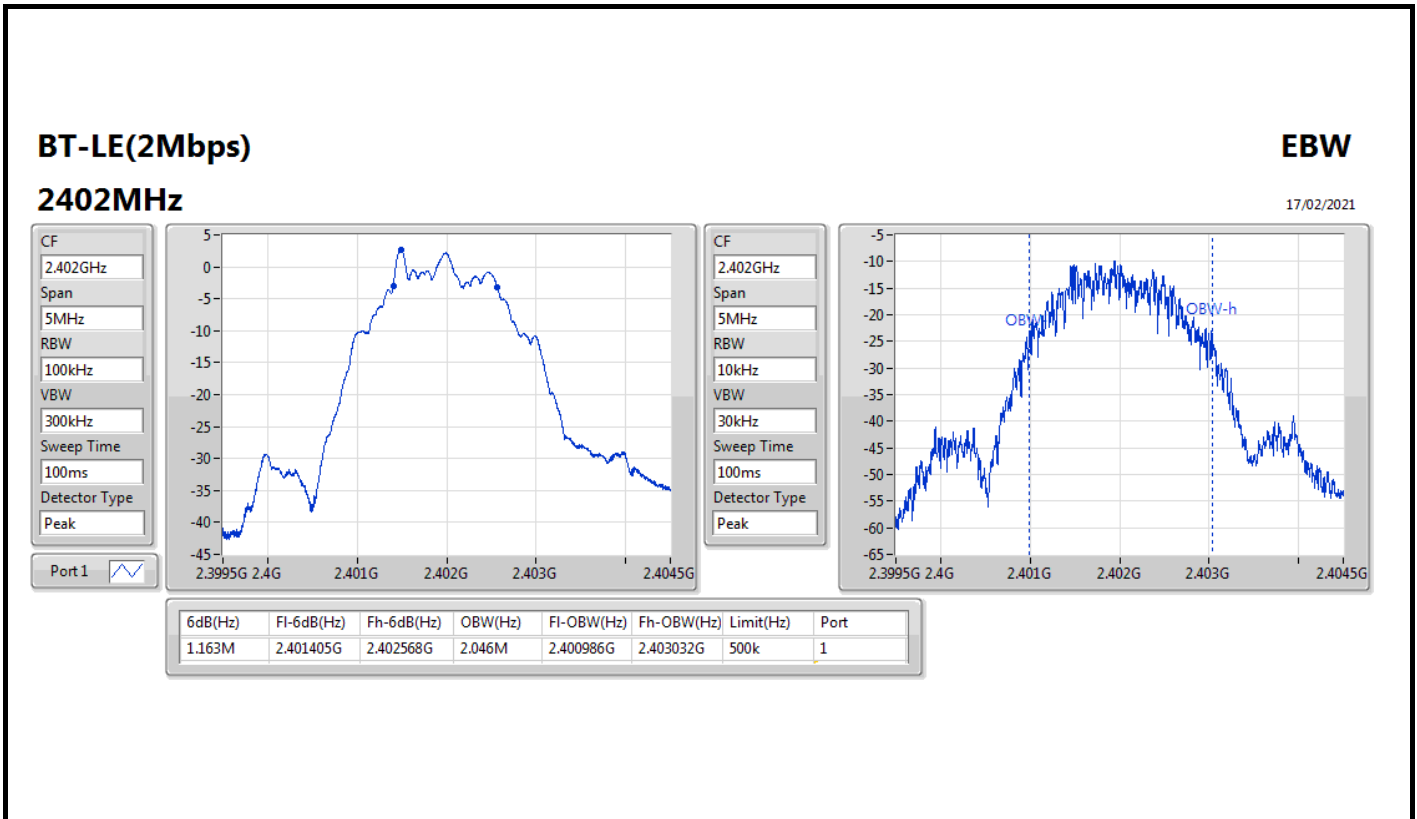


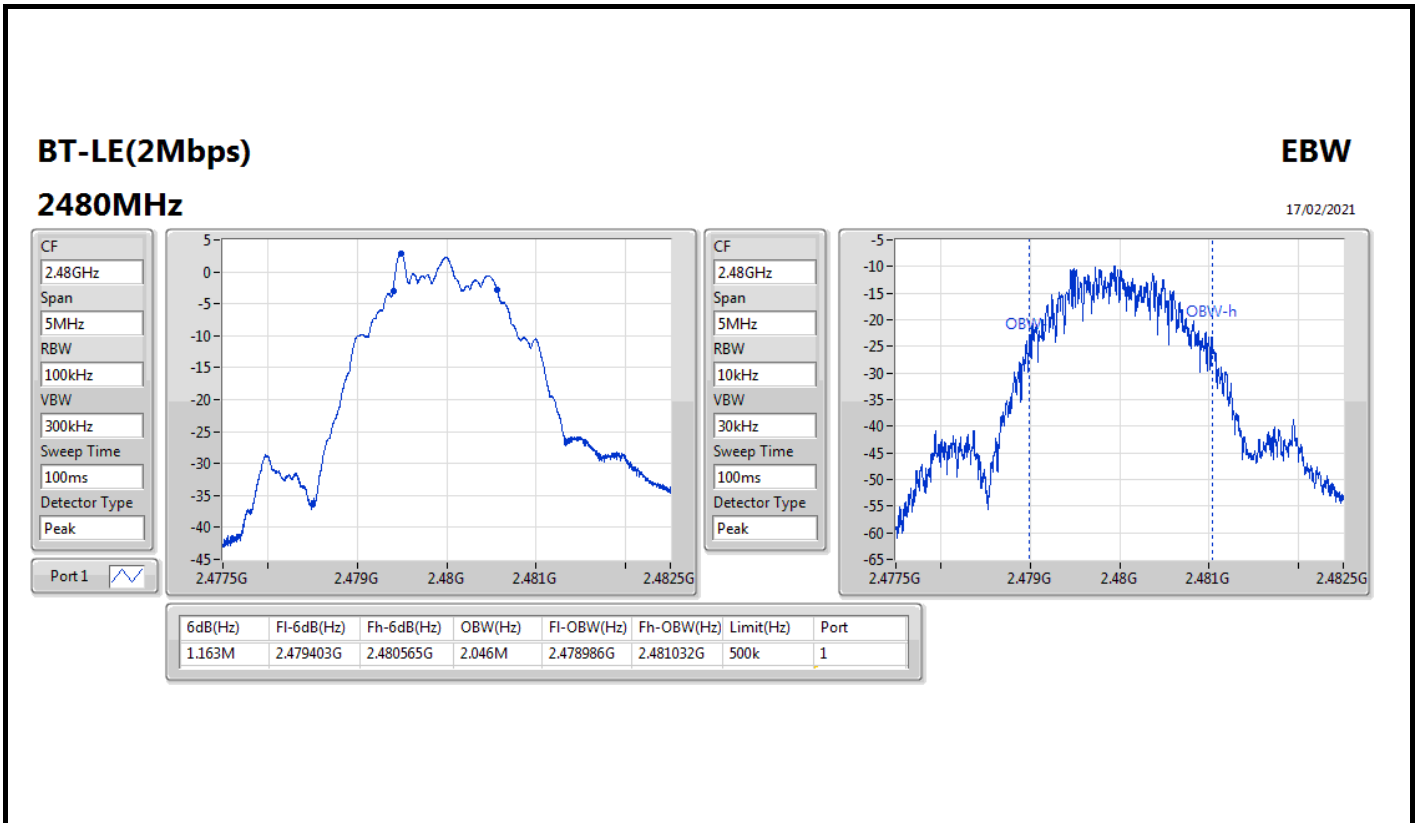
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.163M	2.046M
2440MHz	Pass	500k	1.163M	2.049M
2480MHz	Pass	500k	1.163M	2.046M

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









**Summary**

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	3.73	0.00236



**Result**

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.20	3.73	30.00
2440MHz	Pass	3.20	3.35	30.00
2480MHz	Pass	3.20	3.16	30.00

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



**Summary**

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(2Mbps)	3.51	0.00224



**Result**

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.20	3.28	30.00
2440MHz	Pass	3.20	3.51	30.00
2480MHz	Pass	3.20	2.29	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-11.50

RBW=3 kHz.



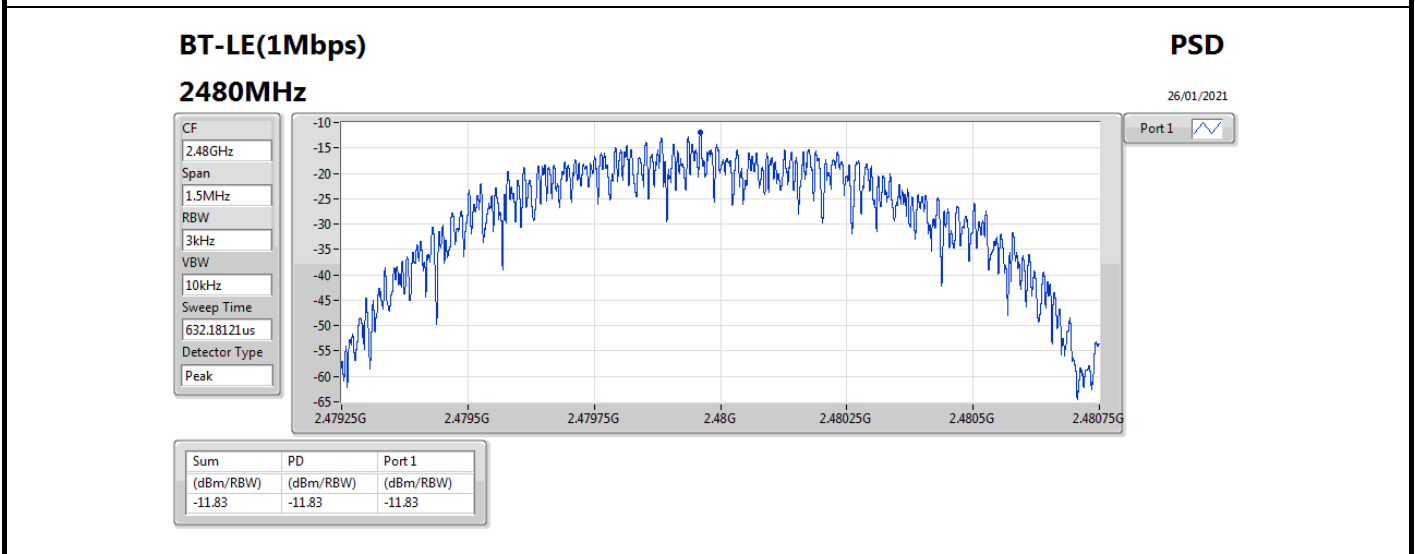
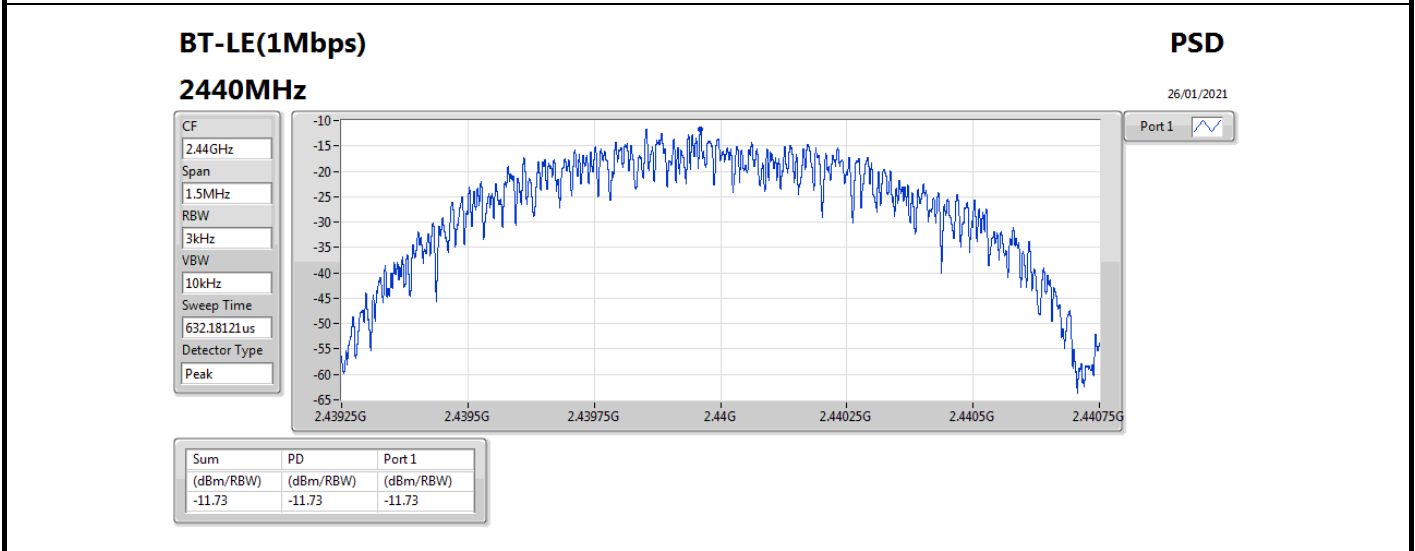
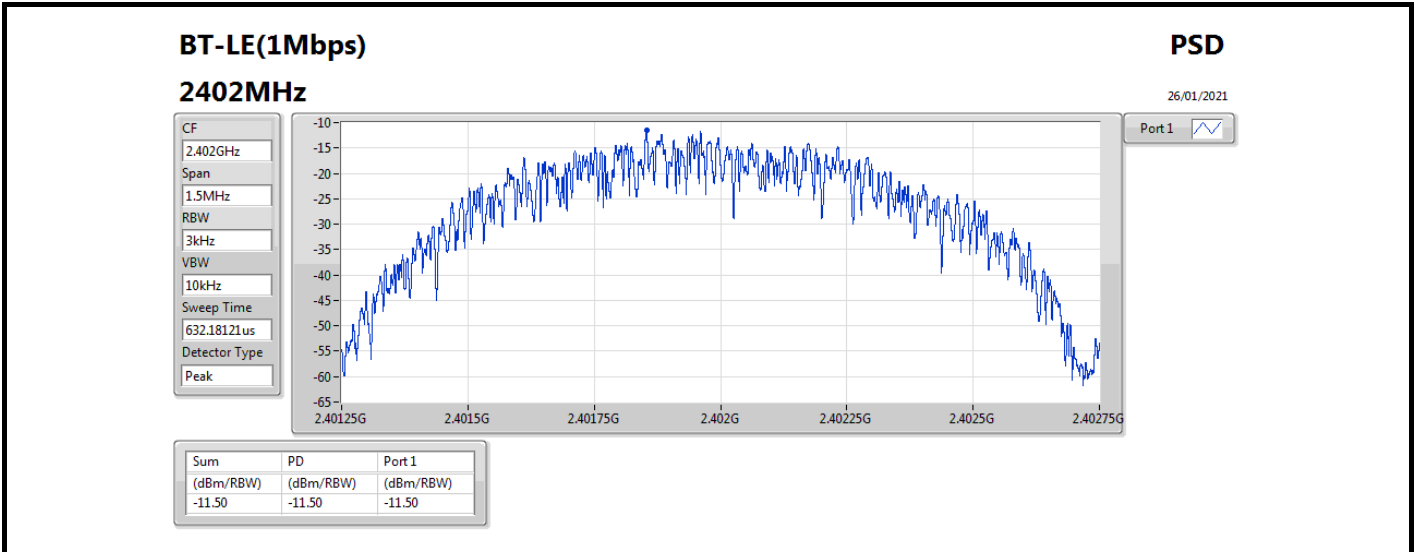
Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.20	-11.50	8.00
2440MHz	Pass	3.20	-11.73	8.00
2480MHz	Pass	3.20	-11.83	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;







**Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(2Mbps)	-13.04

RBW=3 kHz.

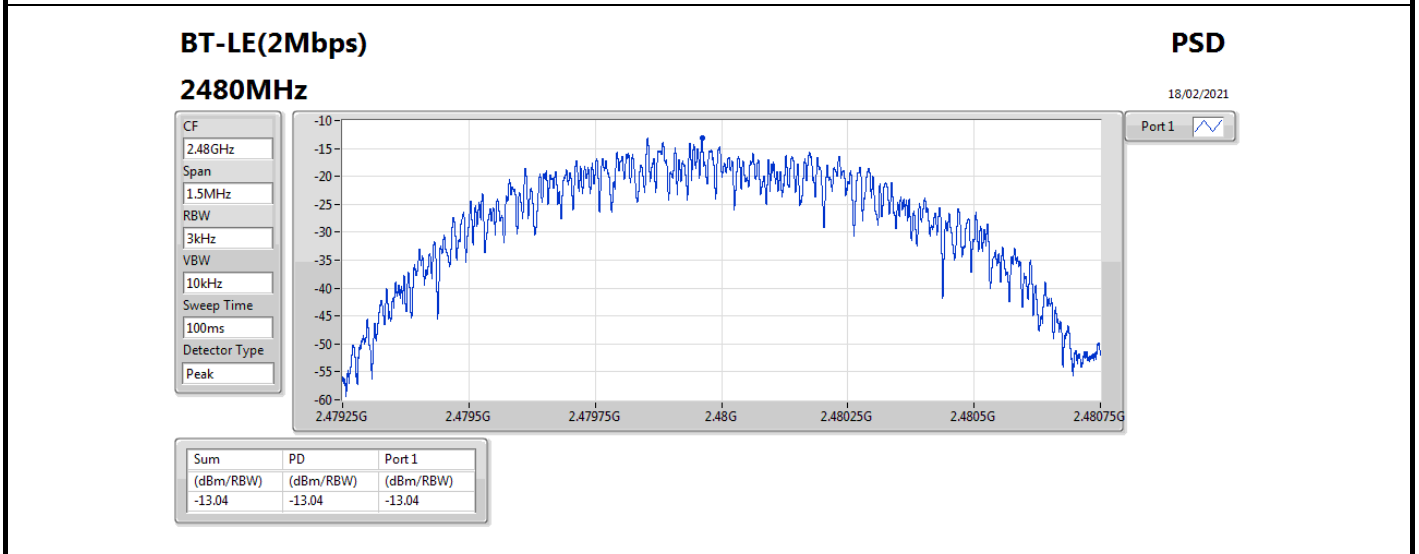
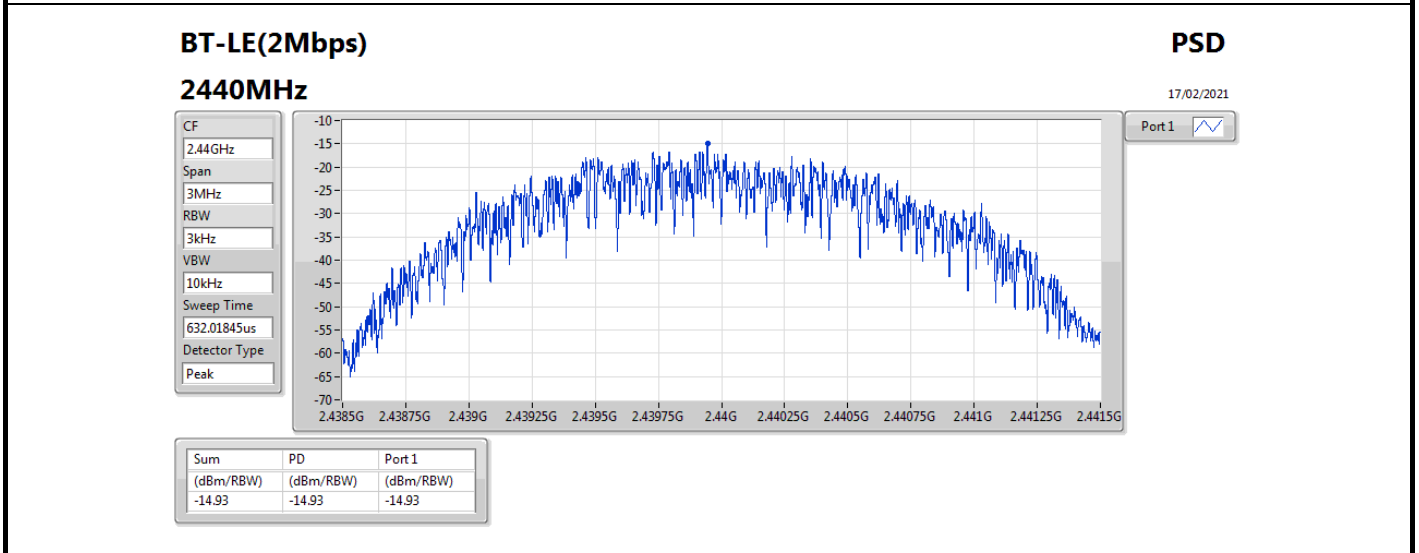
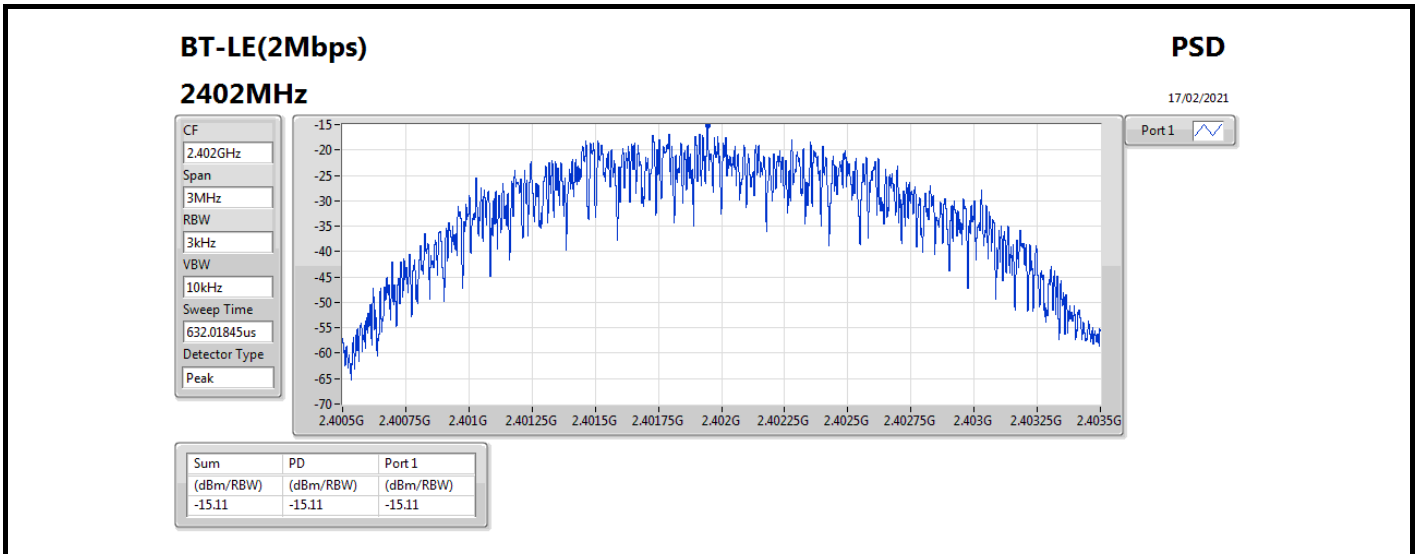


Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.20	-15.11	8.00
2440MHz	Pass	3.20	-14.93	8.00
2480MHz	Pass	3.20	-13.04	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;





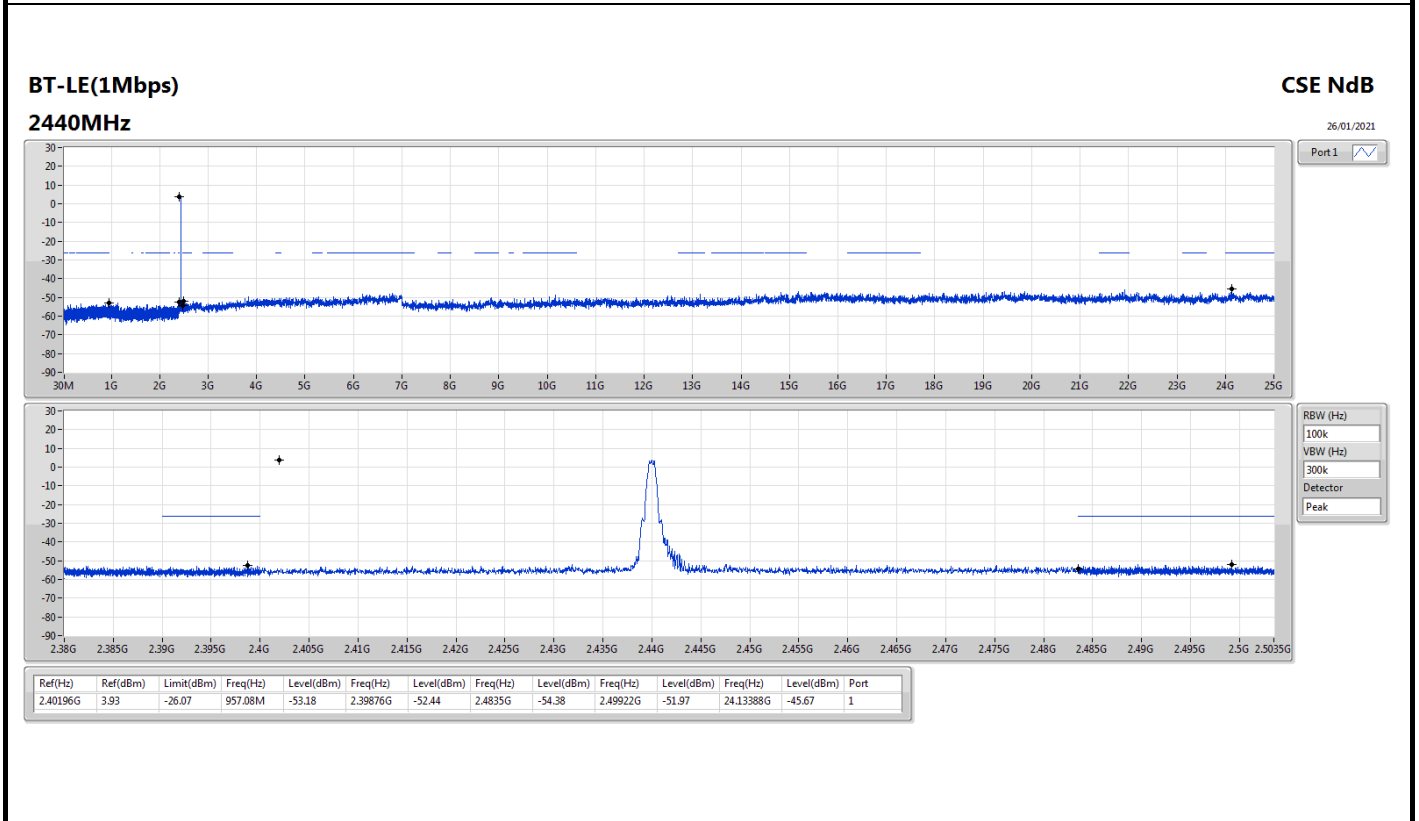
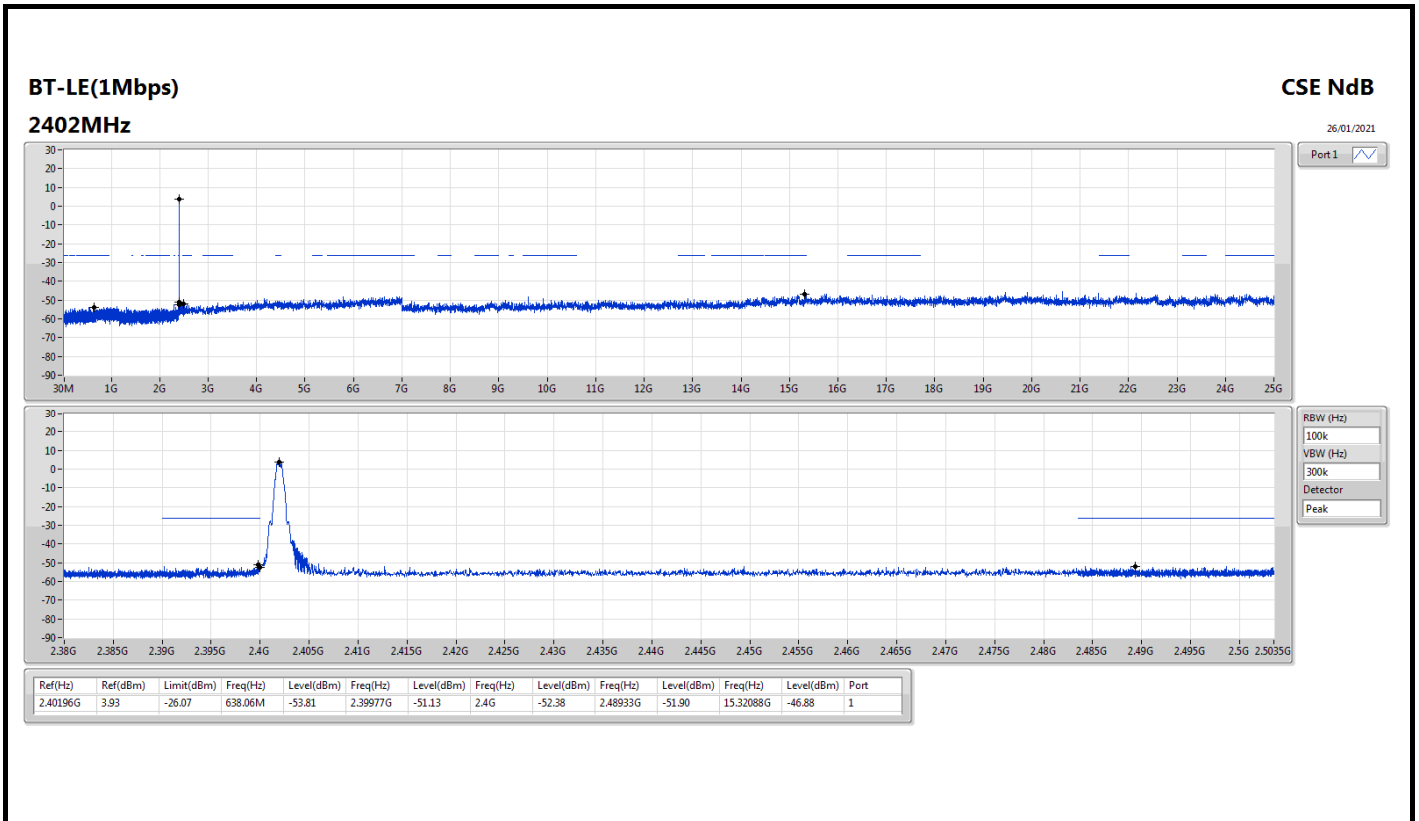
Summary

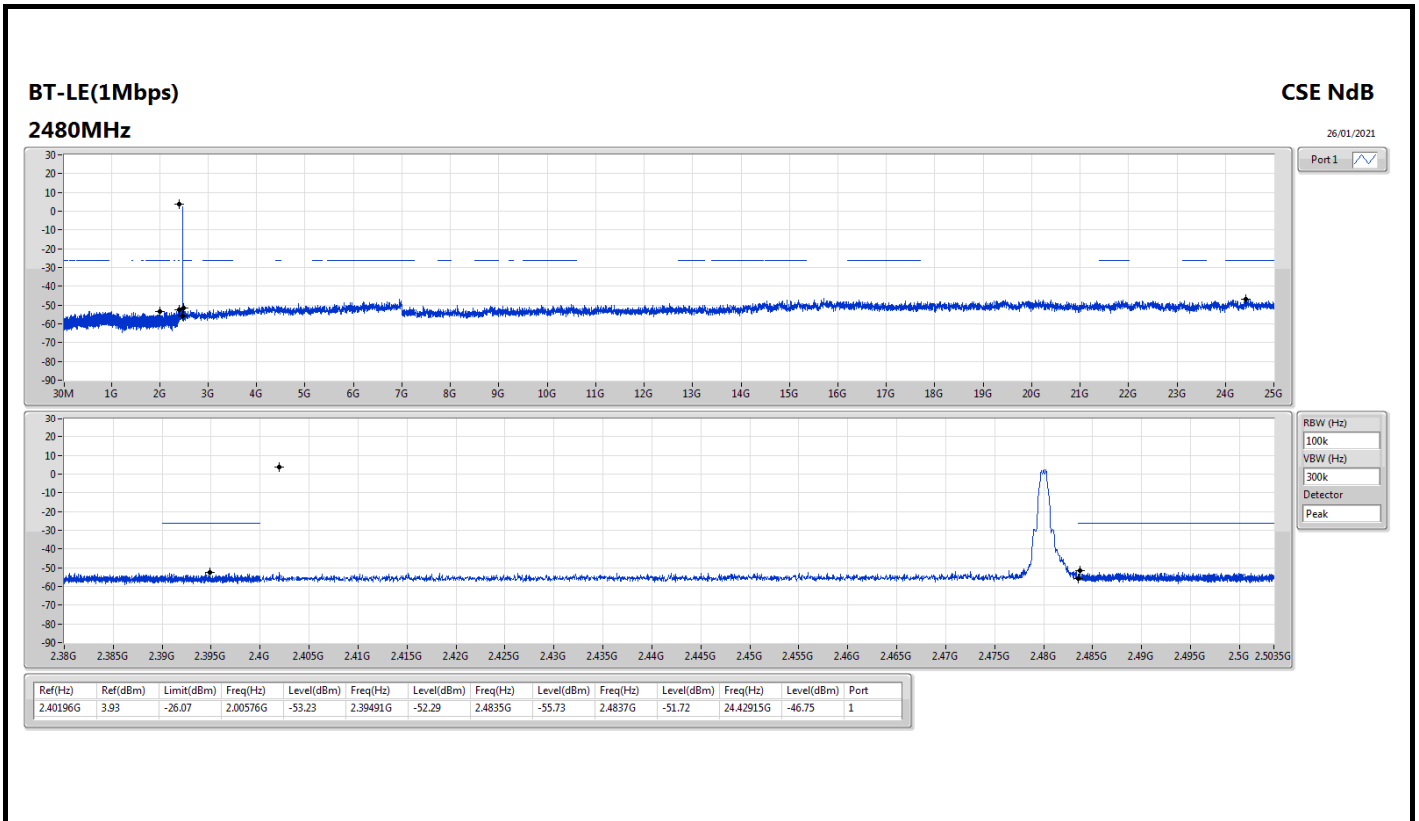
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.40196G	3.93	-26.07	638.06M	-53.81	2.39977G	-51.13	2.4G	-52.38	2.48933G	-51.90	15.32088G	-46.88	1



Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40196G	3.93	-26.07	638.06M	-53.81	2.39977G	-51.13	2.4G	-52.38	2.48933G	-51.90	15.32088G	-46.88	1
2440MHz	Pass	2.40196G	3.93	-26.07	957.08M	-53.18	2.39876G	-52.44	2.4835G	-54.38	2.49922G	-51.97	24.13388G	-45.67	1
2480MHz	Pass	2.40196G	3.93	-26.07	2.00576G	-53.23	2.39491G	-52.29	2.4835G	-55.73	2.4837G	-51.72	24.42915G	-46.75	1









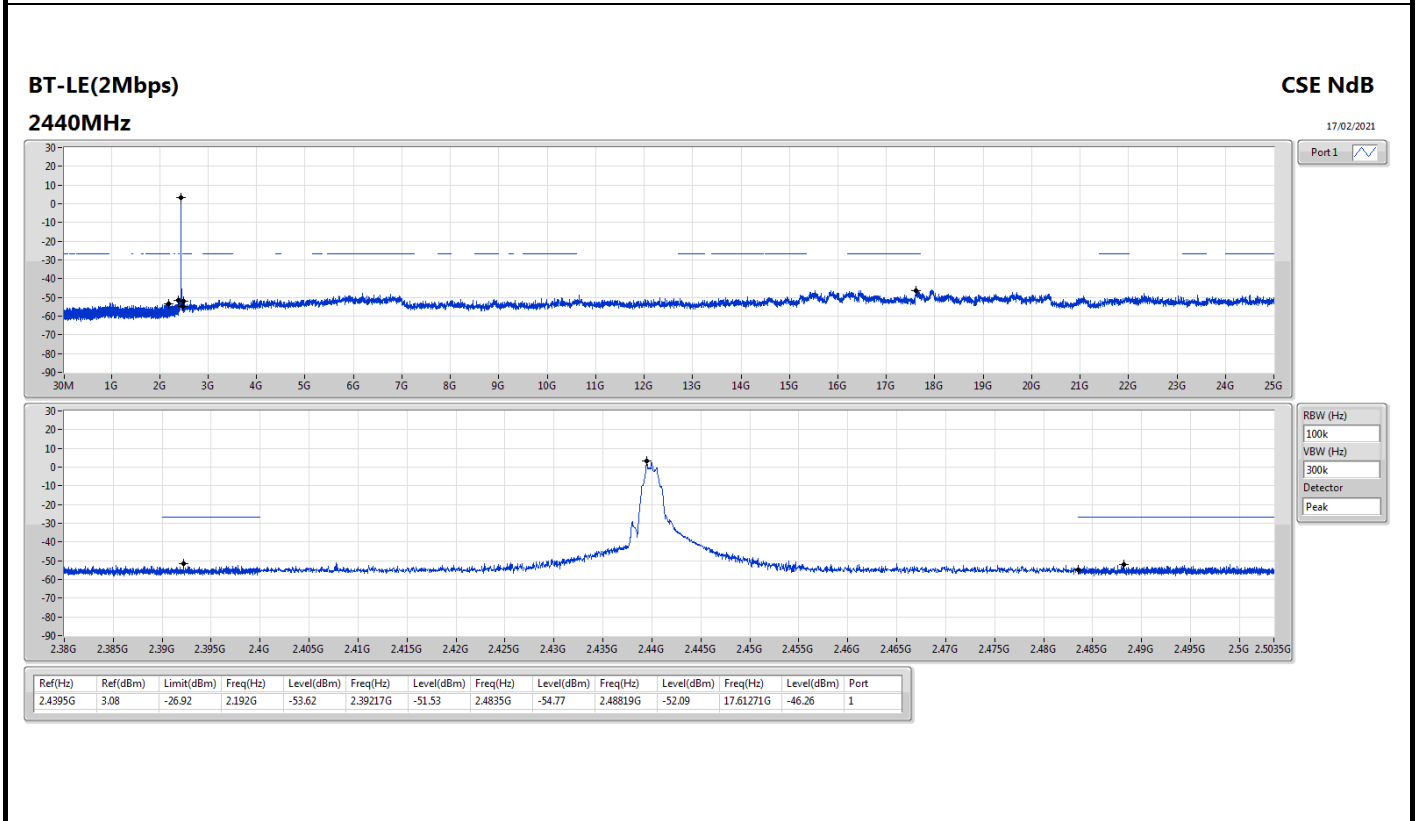
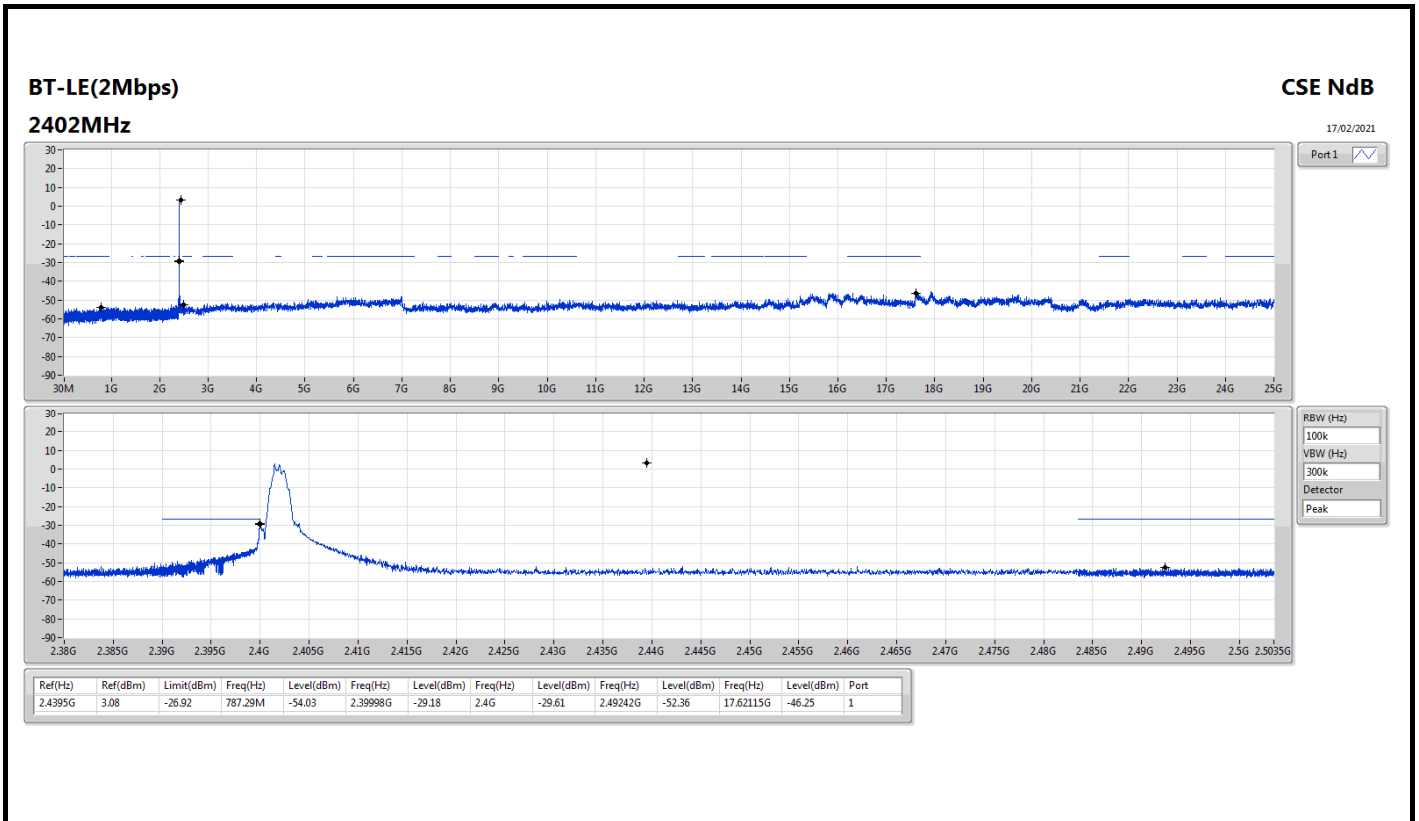
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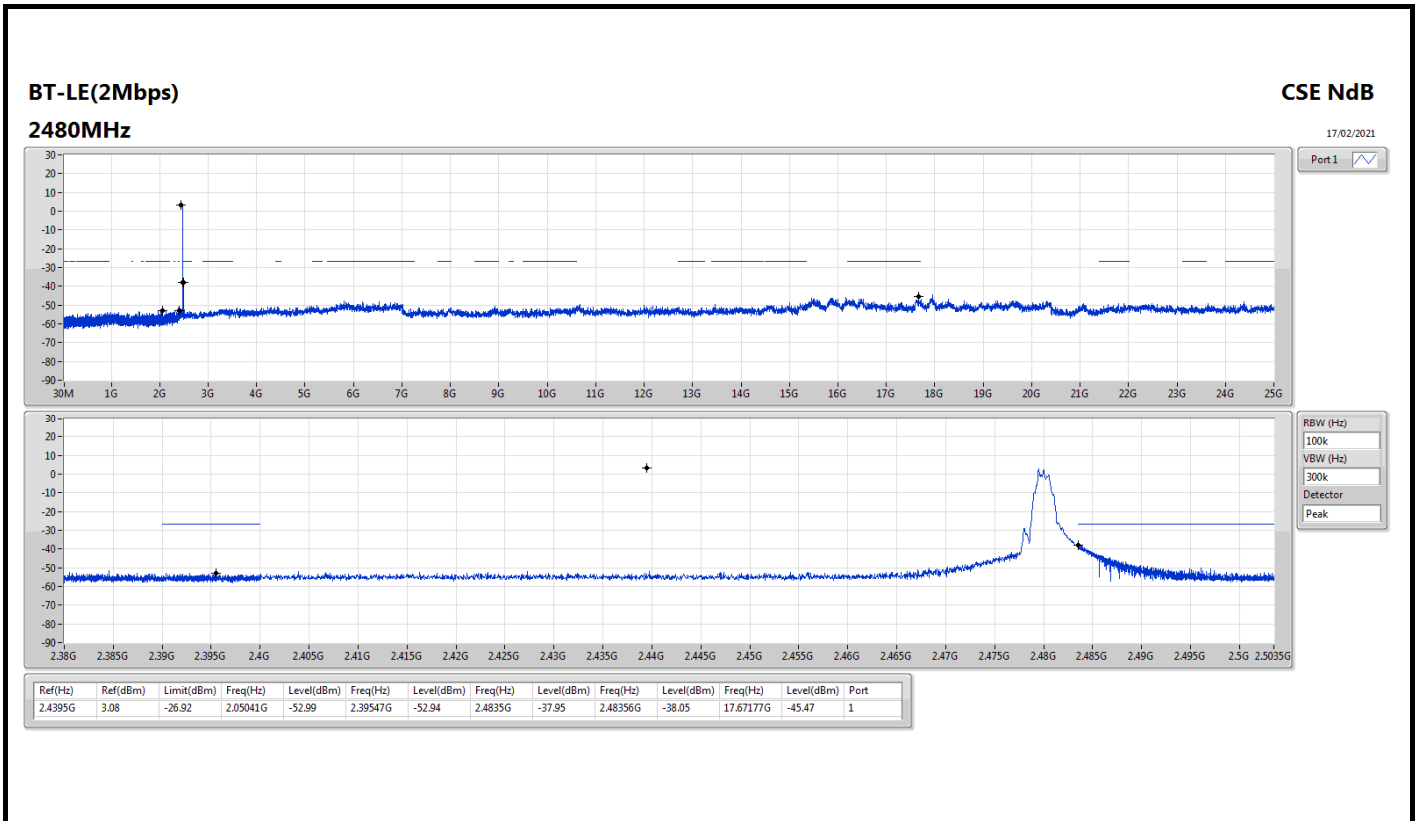
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	2.4395G	3.08	-26.92	787.29M	-54.03	2.39998G	-29.18	2.4G	-29.61	2.49242G	-52.36	17.62115G	-46.25	1



Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.4395G	3.08	-26.92	787.29M	-54.03	2.39998G	-29.18	2.4G	-29.61	2.49242G	-52.36	17.62115G	-46.25	1
2440MHz	Pass	2.4395G	3.08	-26.92	2.192G	-53.62	2.39217G	-51.53	2.4835G	-54.77	2.48819G	-52.09	17.61271G	-46.26	1
2480MHz	Pass	2.4395G	3.08	-26.92	2.05041G	-52.99	2.39547G	-52.94	2.4835G	-37.95	2.48356G	-38.05	17.67177G	-45.47	1

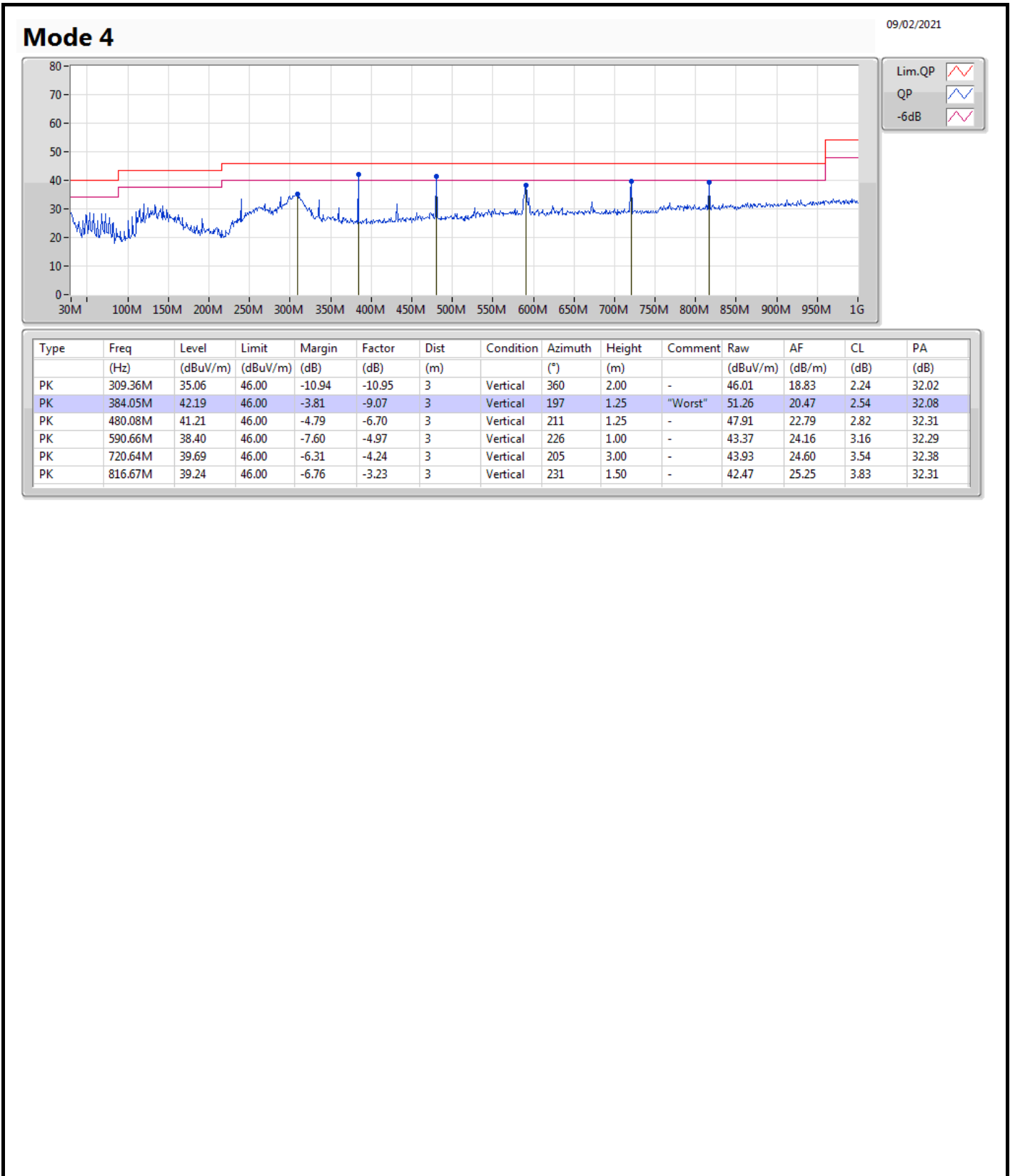


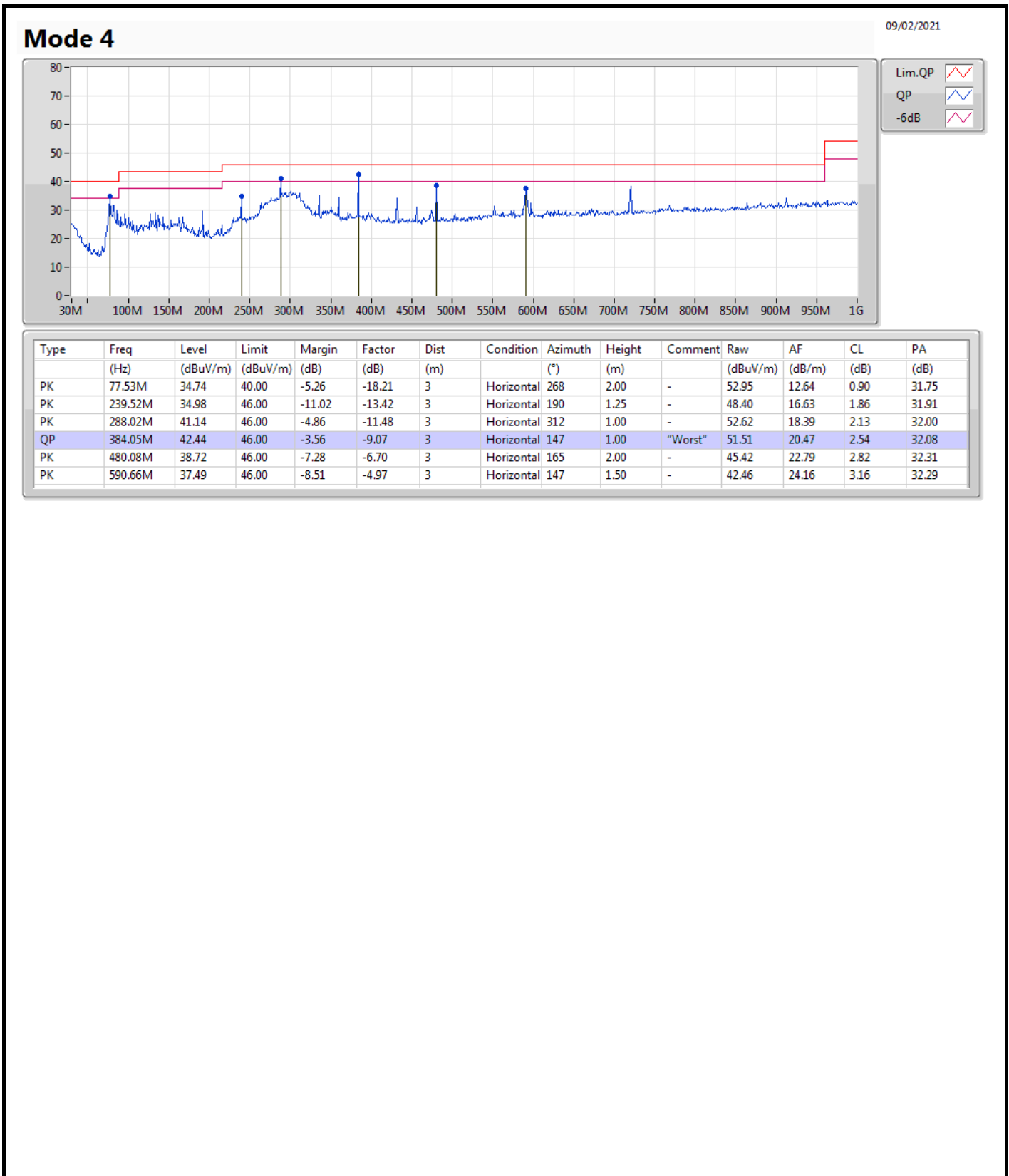




**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	QP	384.05M	42.44	46.00	-3.56	Horizontal







Summary

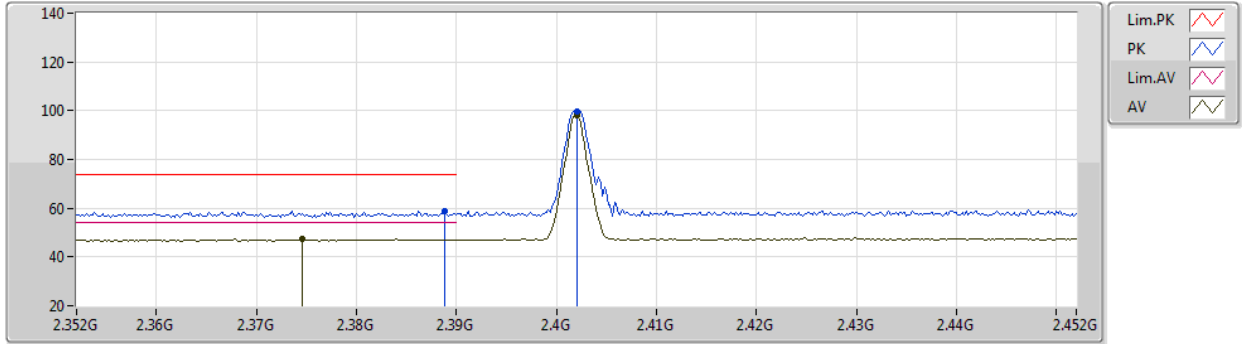
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	2.486G	72.54	74.00	-1.46	3	Horizontal	295	2.89	-



**BT-LE(1Mbps)**

05/01/2021

**2402MHz\_TX**



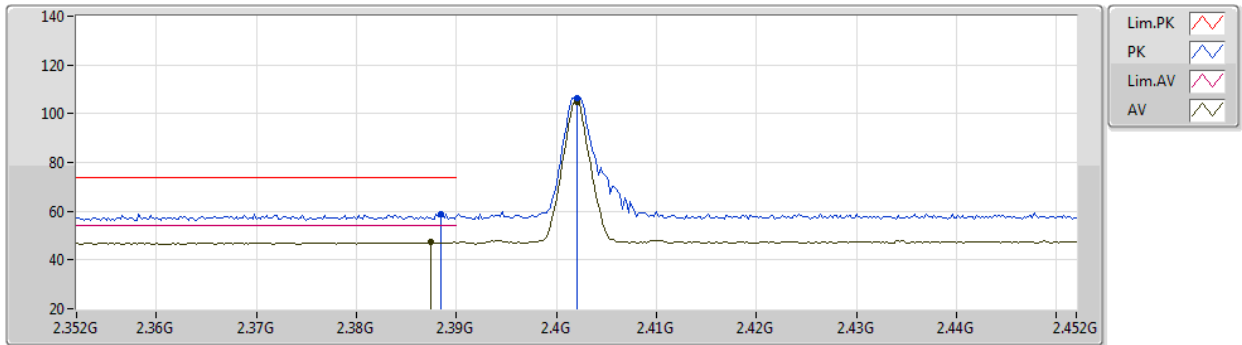
EUT Z\_1TX  
Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3888G	58.70	74.00	-15.30	27.99	3	Vertical	307	2.74	-	28.30	2.41	-
AV	2.3746G	47.43	54.00	-6.57	16.72	3	Vertical	307	2.74	-	28.30	2.41	-
PK	2.402G	99.73	Inf	-Inf	69.03	3	Vertical	307	2.74	-	28.30	2.40	-
AV	2.402G	98.29	Inf	-Inf	67.59	3	Vertical	307	2.74	-	28.30	2.40	-

**BT-LE(1Mbps)**

05/01/2021

**2402MHz\_TX**



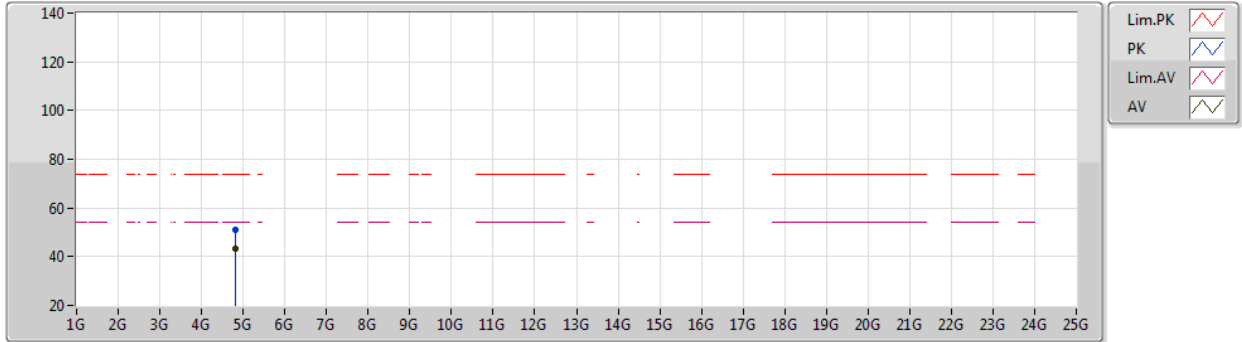
EUT Z\_1TX  
Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3884G	58.99	74.00	-15.01	28.28	3	Horizontal	27	2.77	-	28.30	2.41	-
AV	2.3874G	47.30	54.00	-6.70	16.59	3	Horizontal	27	2.77	-	28.30	2.41	-
PK	2.402G	106.54	Inf	-Inf	75.84	3	Horizontal	27	2.77	-	28.30	2.40	-
AV	2.402G	105.08	Inf	-Inf	74.38	3	Horizontal	27	2.77	-	28.30	2.40	-

**BT-LE(1Mbps)**

05/01/2021

**2402MHz\_TX**



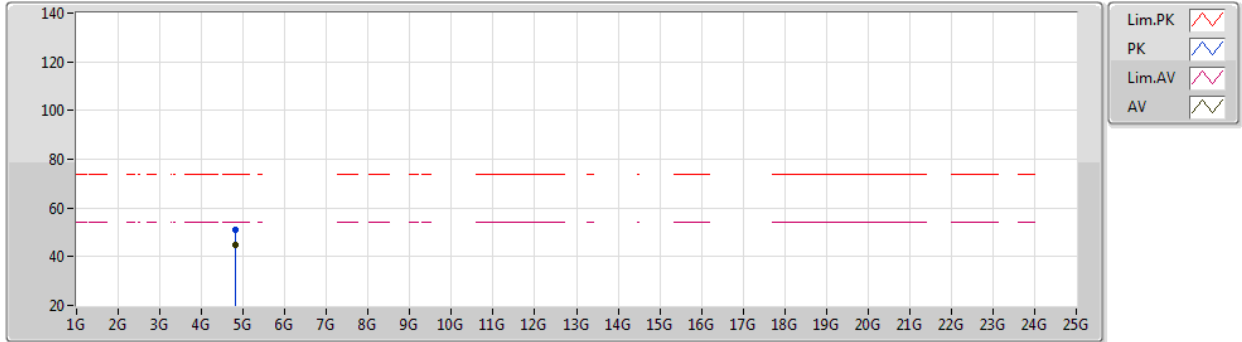
EUT X\_1TX  
Setting 10  
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.80346G	50.89	74.00	-23.11	45.15	3	Vertical	204	2.49	-	32.81	4.70	31.77
AV	4.80394G	43.44	54.00	-10.56	37.69	3	Vertical	204	2.49	-	32.82	4.70	31.77

**BT-LE(1Mbps)**

05/01/2021

**2402MHz\_TX**



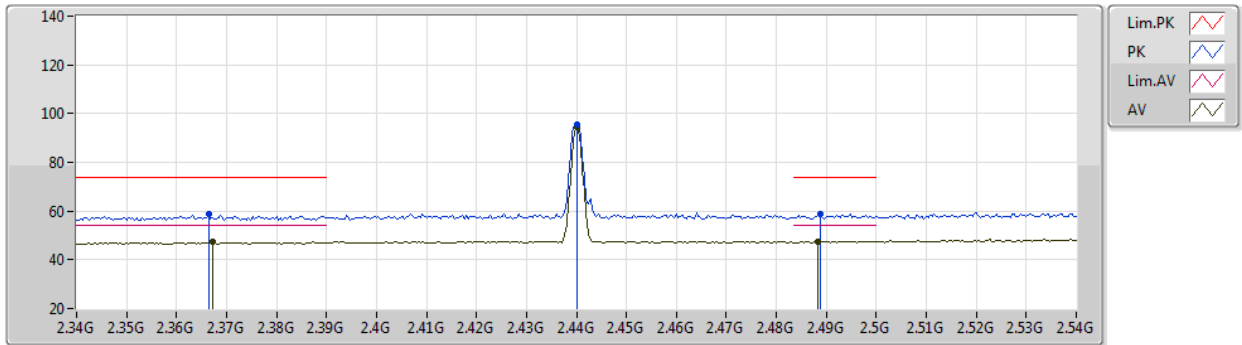
EUT X\_1TX  
Setting 10  
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.80346G	51.14	74.00	-22.86	45.40	3	Horizontal	79	1.03	-	32.81	4.70	31.77
AV	4.80394G	44.62	54.00	-9.38	38.87	3	Horizontal	79	1.03	-	32.82	4.70	31.77

**BT-LE(1Mbps)**

05/01/2021

**2440MHz\_TX**



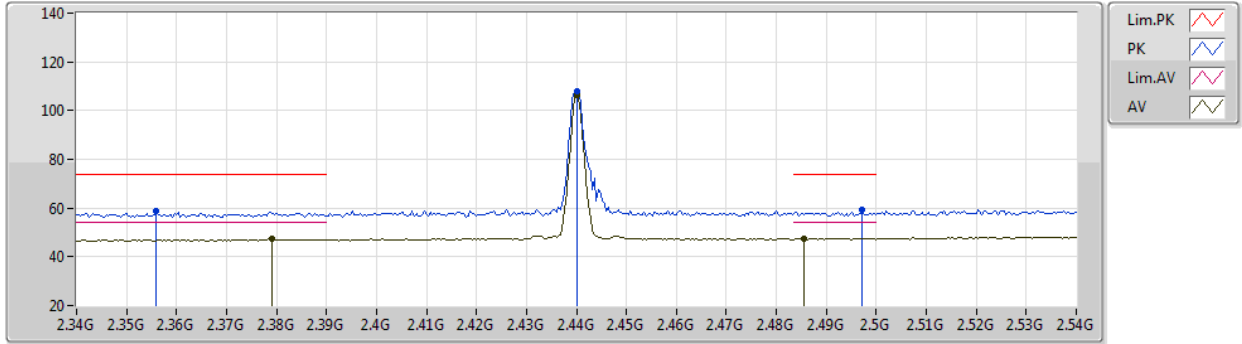
EUT\_Z\_1TX  
Setting 10  
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3664G	58.54	74.00	-15.46	27.82	3	Vertical	132	2.90	-	28.30	2.42	-
AV	2.3672G	47.17	54.00	-6.83	16.45	3	Vertical	132	2.90	-	28.30	2.42	-
PK	2.44G	95.69	Inf	-Inf	64.89	3	Vertical	132	2.90	-	28.38	2.42	-
AV	2.44G	94.29	Inf	-Inf	63.49	3	Vertical	132	2.90	-	28.38	2.42	-
PK	2.4888G	58.98	74.00	-15.02	27.98	3	Vertical	132	2.90	-	28.56	2.44	-
AV	2.4884G	47.59	54.00	-6.41	16.60	3	Vertical	132	2.90	-	28.55	2.44	-

**BT-LE(1Mbps)**

05/01/2021

**2440MHz\_TX**



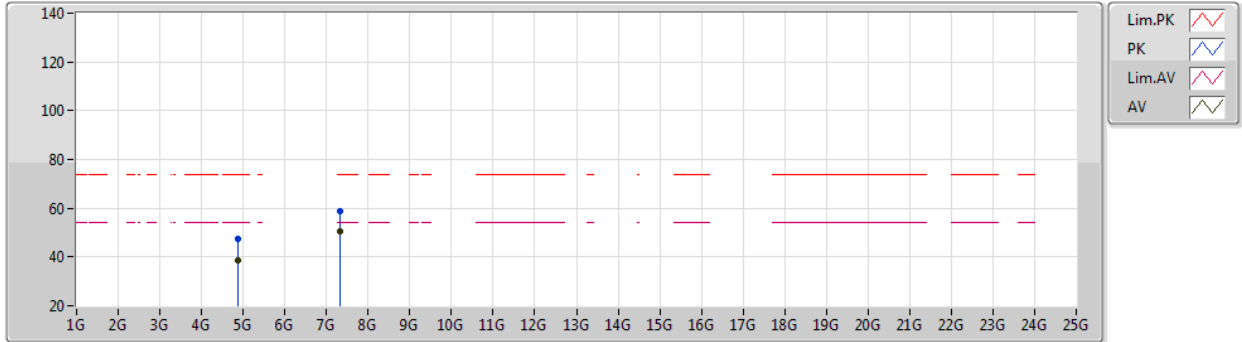
EUT Z\_1TX  
Setting 10  
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.356G	58.73	74.00	-15.27	28.01	3	Horizontal	32	2.73	-	28.30	2.42	-
AV	2.3792G	47.25	54.00	-6.75	16.54	3	Horizontal	32	2.73	-	28.30	2.41	-
PK	2.44G	108.03	Inf	-Inf	77.23	3	Horizontal	32	2.73	-	28.38	2.42	-
AV	2.44G	106.53	Inf	-Inf	75.73	3	Horizontal	32	2.73	-	28.38	2.42	-
PK	2.4972G	59.10	74.00	-14.90	28.06	3	Horizontal	32	2.73	-	28.59	2.45	-
AV	2.4856G	47.59	54.00	-6.41	16.61	3	Horizontal	32	2.73	-	28.54	2.44	-

**BT-LE(1Mbps)**

05/01/2021

**2440MHz\_TX**



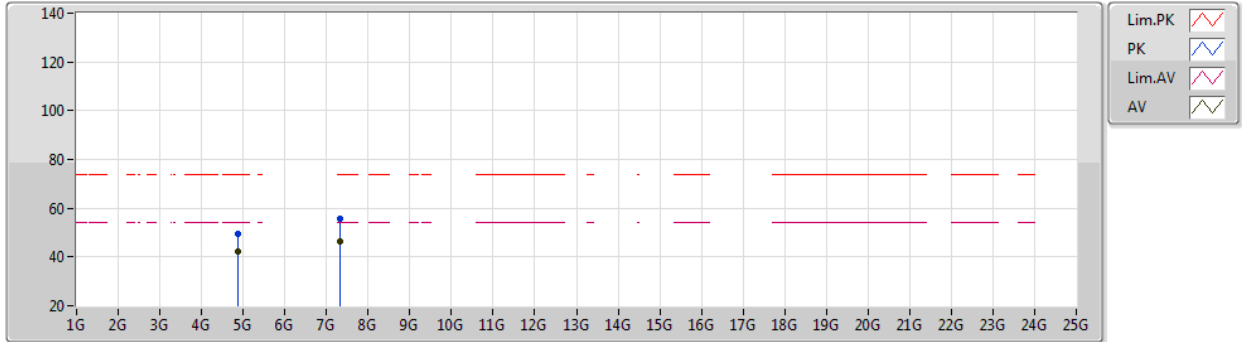
EUT X\_1TX  
Setting 10  
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8794G	47.36	74.00	-26.64	41.34	3	Vertical	57	1.78	-	33.12	4.70	31.80
AV	4.88006G	38.87	54.00	-15.13	32.85	3	Vertical	57	1.78	-	33.12	4.70	31.80
PK	7.32072G	58.88	74.00	-15.12	49.11	3	Vertical	210	2.09	-	36.44	5.76	32.43
AV	7.3194G	50.37	54.00	-3.63	40.60	3	Vertical	210	2.09	-	36.44	5.76	32.43

**BT-LE(1Mbps)**

05/01/2021

**2440MHz\_TX**



EUT X\_1TX  
Setting 10  
02-B-R-5

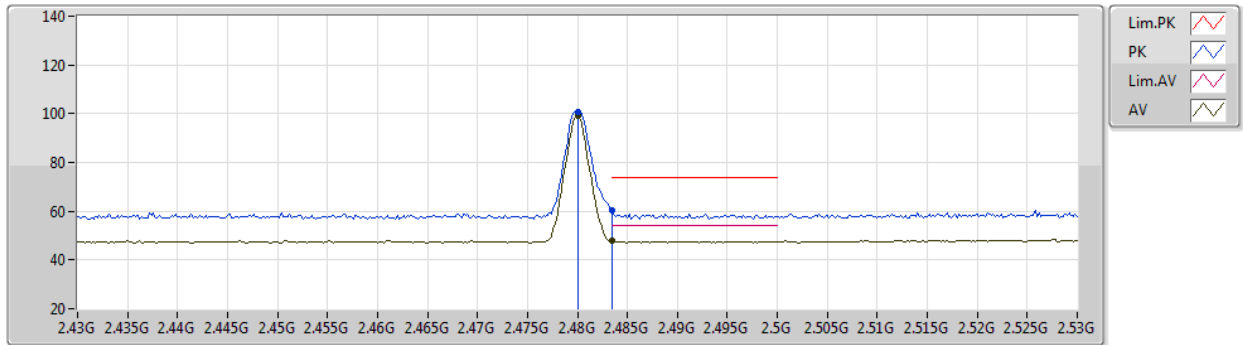
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88054G	49.65	74.00	-24.35	43.63	3	Horizontal	82	1.63	-	33.12	4.70	31.80
AV	4.87988G	42.49	54.00	-11.51	36.47	3	Horizontal	82	1.63	-	33.12	4.70	31.80
PK	7.31922G	55.59	74.00	-18.41	45.82	3	Horizontal	186	2.25	-	36.44	5.76	32.43
AV	7.3194G	46.47	54.00	-7.53	36.70	3	Horizontal	186	2.25	-	36.44	5.76	32.43



**BT-LE(1Mbps)**

06/01/2021

**2480MHz\_TX**



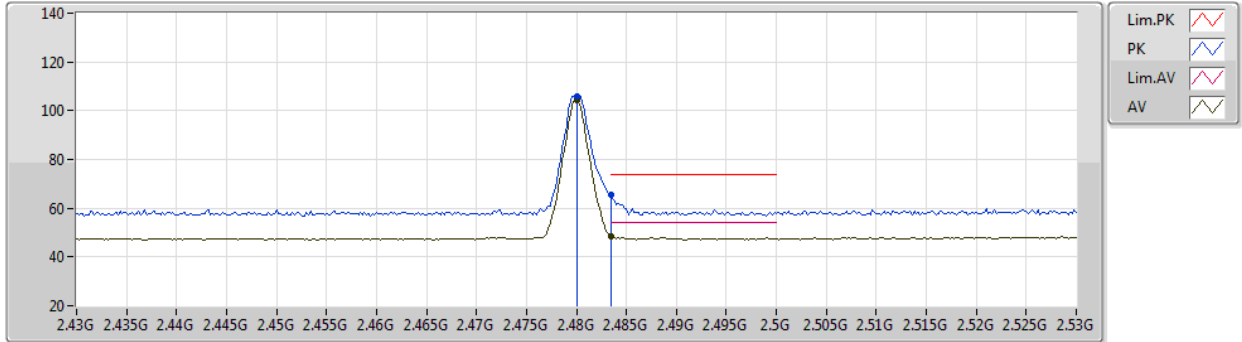
EUT Z\_1TX  
Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.48G	100.50	Inf	-Inf	69.54	3	Vertical	301	2.88	-	28.52	2.44	-
AV	2.48G	99.08	Inf	-Inf	68.12	3	Vertical	301	2.88	-	28.52	2.44	-
PK	2.4835G	60.42	74.00	-13.58	29.45	3	Vertical	301	2.88	-	28.53	2.44	-
AV	2.4835G	47.71	54.00	-6.29	16.74	3	Vertical	301	2.88	-	28.53	2.44	-

**BT-LE(1Mbps)**

06/01/2021

**2480MHz\_TX**



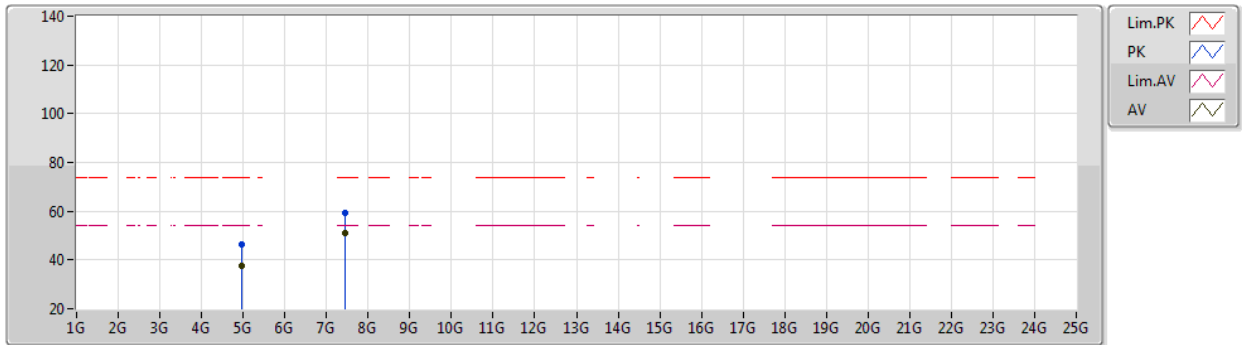
EUT\_Z\_1TX  
Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.48G	105.99	Inf	-Inf	75.03	3	Horizontal	60	2.92	-	28.52	2.44	-
AV	2.48G	104.35	Inf	-Inf	73.39	3	Horizontal	60	2.92	-	28.52	2.44	-
PK	2.4835G	65.62	74.00	-8.38	34.65	3	Horizontal	60	2.92	-	28.53	2.44	-
AV	2.4835G	48.44	54.00	-5.56	17.47	3	Horizontal	60	2.92	-	28.53	2.44	-

**BT-LE(1Mbps)**

06/01/2021

**2480MHz\_TX**



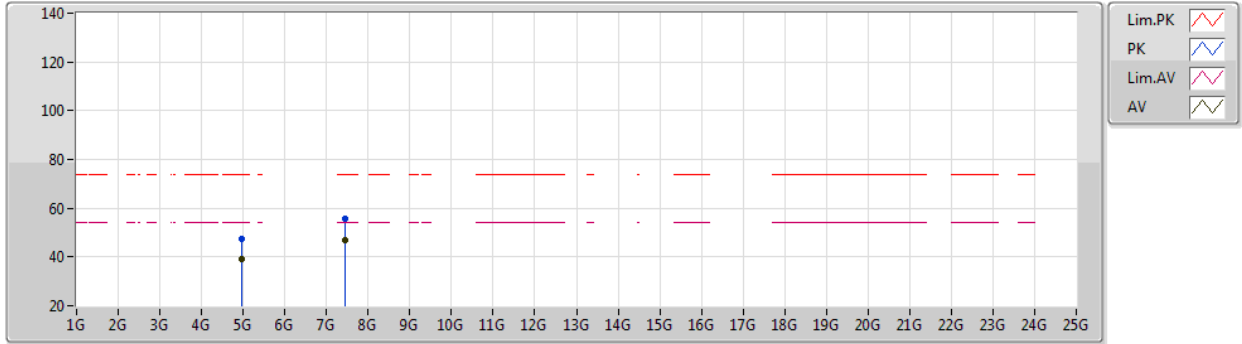
EUT X\_1TX  
Setting 10  
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.95934G	46.60	74.00	-27.40	40.51	3	Vertical	130	1.80	-	33.22	4.70	31.83
AV	4.95976G	37.56	54.00	-16.44	31.47	3	Vertical	130	1.80	-	33.22	4.70	31.83
PK	7.44066G	59.44	74.00	-14.56	49.60	3	Vertical	206	2.04	-	36.48	5.84	32.48
AV	7.4394G	51.16	54.00	-2.84	41.32	3	Vertical	206	2.04	-	36.48	5.84	32.48

**BT-LE(1Mbps)**

06/01/2021

**2480MHz\_TX**



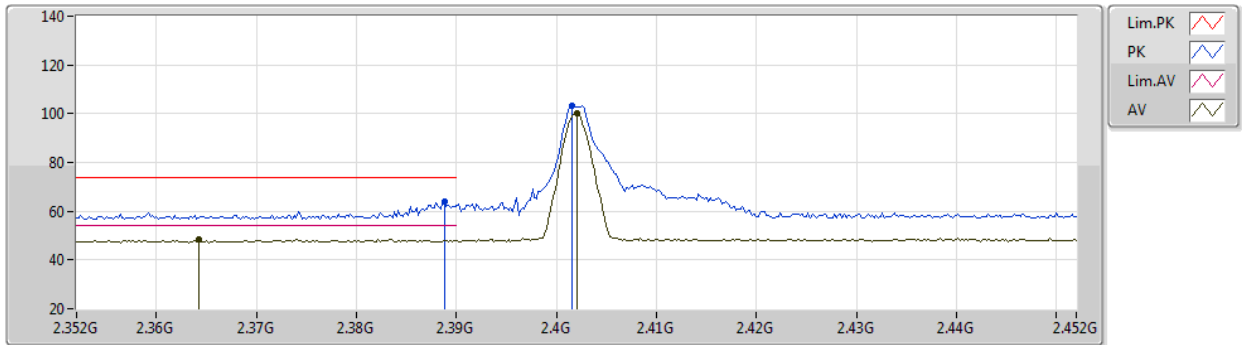
EUT X\_1TX  
Setting 10  
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.96048G	47.52	74.00	-26.48	41.43	3	Horizontal	76	1.00	-	33.22	4.70	31.83
AV	4.95994G	39.00	54.00	-15.00	32.91	3	Horizontal	76	1.00	-	33.22	4.70	31.83
PK	7.44066G	55.59	74.00	-18.41	45.75	3	Horizontal	185	2.17	-	36.48	5.84	32.48
AV	7.43922G	46.91	54.00	-7.09	37.07	3	Horizontal	185	2.17	-	36.48	5.84	32.48

**BT-LE(2Mbps)**

12/01/2021

**2402MHz\_TX**



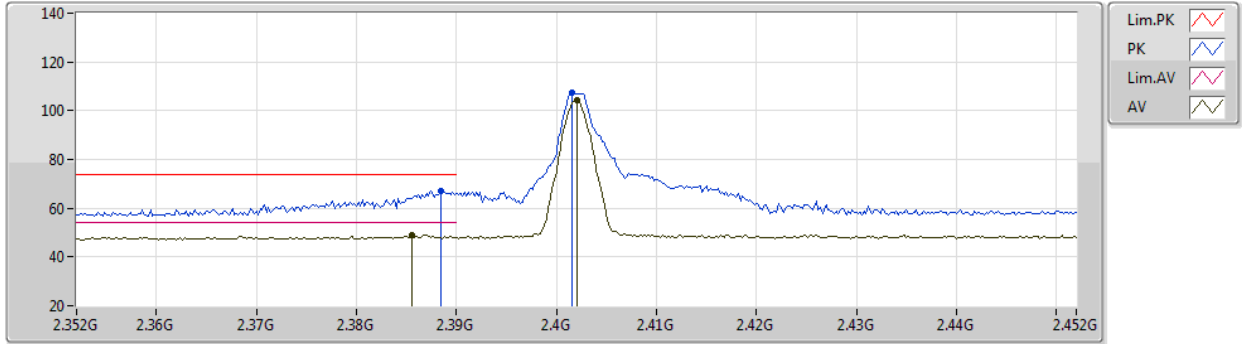
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Setting 10  
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3888G	63.79	74.00	-10.21	33.08	3	Vertical	57	2.73	-	28.30	2.41	-
AV	2.3642G	48.53	54.00	-5.47	17.81	3	Vertical	57	2.73	-	28.30	2.42	-
PK	2.4016G	103.06	Inf	-Inf	72.36	3	Vertical	57	2.73	-	28.30	2.40	-
AV	2.402G	100.26	Inf	-Inf	69.56	3	Vertical	57	2.73	-	28.30	2.40	-

**BT-LE(2Mbps)**

12/01/2021

**2402MHz\_TX**



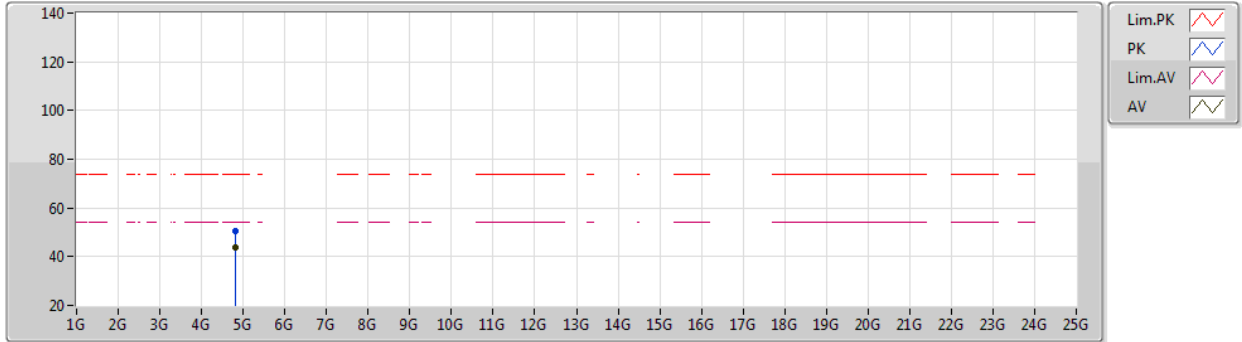
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Setting 10  
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3884G	67.27	74.00	-6.73	36.56	3	Horizontal	6	1.43	-	28.30	2.41	-
AV	2.3856G	49.15	54.00	-4.85	18.44	3	Horizontal	6	1.43	-	28.30	2.41	-
PK	2.4016G	107.18	Inf	-Inf	76.48	3	Horizontal	6	1.43	-	28.30	2.40	-
AV	2.402G	104.31	Inf	-Inf	73.61	3	Horizontal	6	1.43	-	28.30	2.40	-

**BT-LE(2Mbps)**

12/01/2021

**2402MHz\_TX**



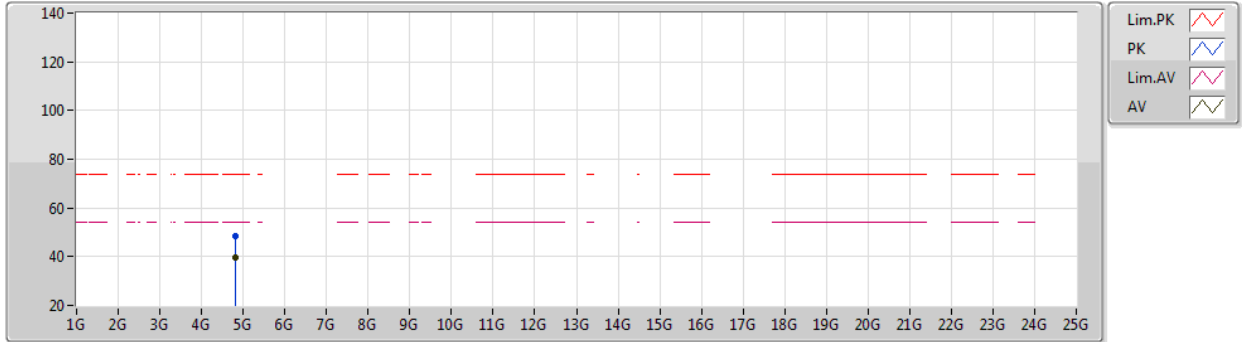
EUT X\_1TX  
Setting 10  
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8049G	50.74	74.00	-23.26	44.99	3	Vertical	194	2.47	-	32.82	4.70	31.77
AV	4.80304G	43.70	54.00	-10.30	37.96	3	Vertical	194	2.47	-	32.81	4.70	31.77

**BT-LE(2Mbps)**

12/01/2021

**2402MHz\_TX**



EUT X\_1TX  
Setting 10  
02-B-C-5

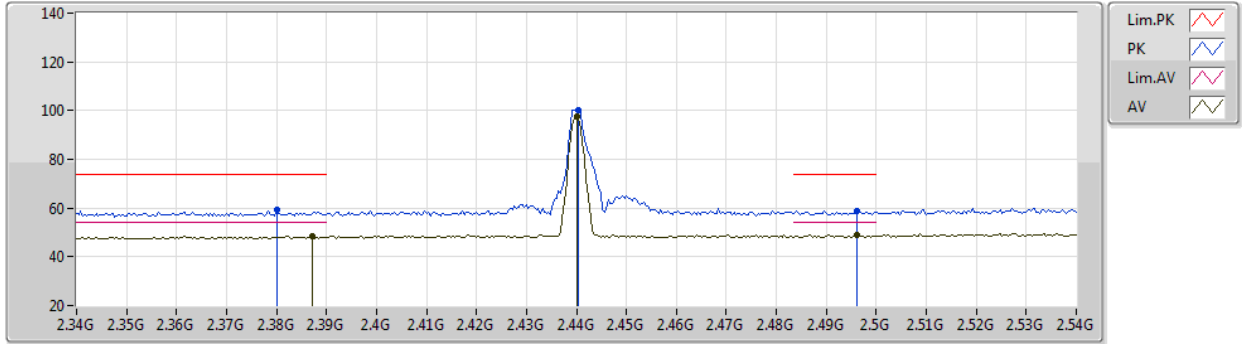
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8029G	48.35	74.00	-25.65	42.61	3	Horizontal	64	2.52	-	32.81	4.70	31.77
AV	4.8029G	39.79	54.00	-14.21	34.05	3	Horizontal	64	2.52	-	32.81	4.70	31.77



**BT-LE(2Mbps)**

12/01/2021

**2440MHz\_TX**



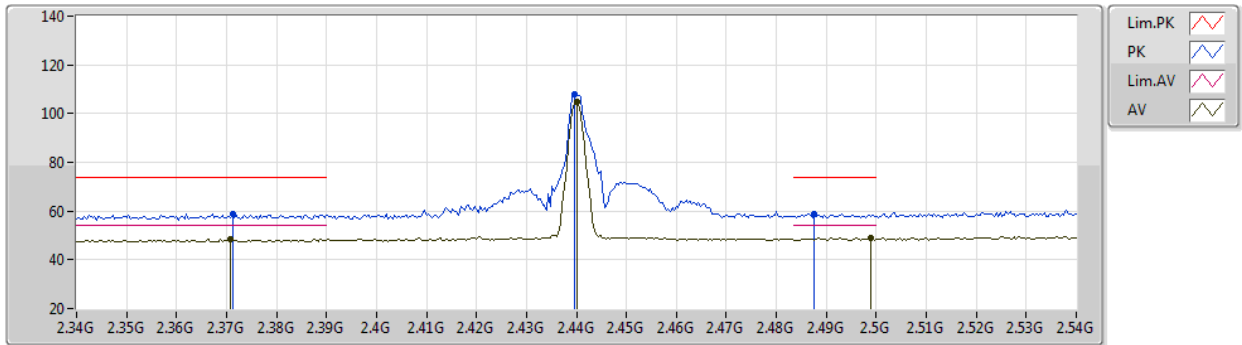
EUT Z\_1TX  
Setting 10  
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.38G	59.34	74.00	-14.66	28.63	3	Vertical	249	2.90	-	28.30	2.41	-
AV	2.3872G	48.46	54.00	-5.54	17.75	3	Vertical	249	2.90	-	28.30	2.41	-
PK	2.4404G	100.40	Inf	-Inf	69.60	3	Vertical	249	2.90	-	28.38	2.42	-
AV	2.44G	97.50	Inf	-Inf	66.70	3	Vertical	249	2.90	-	28.38	2.42	-
PK	2.496G	59.01	74.00	-14.99	27.98	3	Vertical	249	2.90	-	28.58	2.45	-
AV	2.496G	49.13	54.00	-4.87	18.10	3	Vertical	249	2.90	-	28.58	2.45	-

**BT-LE(2Mbps)**

12/01/2021

**2440MHz\_TX**



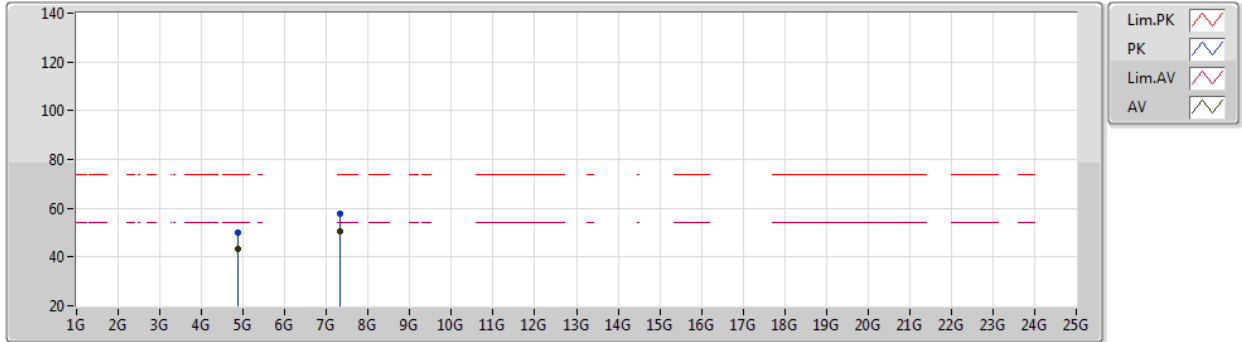
EUT Z\_1TX  
Setting 10  
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3712G	58.90	74.00	-15.10	28.19	3	Horizontal	23	2.66	-	28.30	2.41	-
AV	2.3708G	48.49	54.00	-5.51	17.78	3	Horizontal	23	2.66	-	28.30	2.41	-
PK	2.4396G	107.69	Inf	-Inf	76.89	3	Horizontal	23	2.66	-	28.38	2.42	-
AV	2.44G	104.90	Inf	-Inf	74.10	3	Horizontal	23	2.66	-	28.38	2.42	-
PK	2.4876G	59.03	74.00	-14.97	28.04	3	Horizontal	23	2.66	-	28.55	2.44	-
AV	2.4988G	48.91	54.00	-5.09	17.86	3	Horizontal	23	2.66	-	28.60	2.45	-

**BT-LE(2Mbps)**

12/01/2021

**2440MHz\_TX**



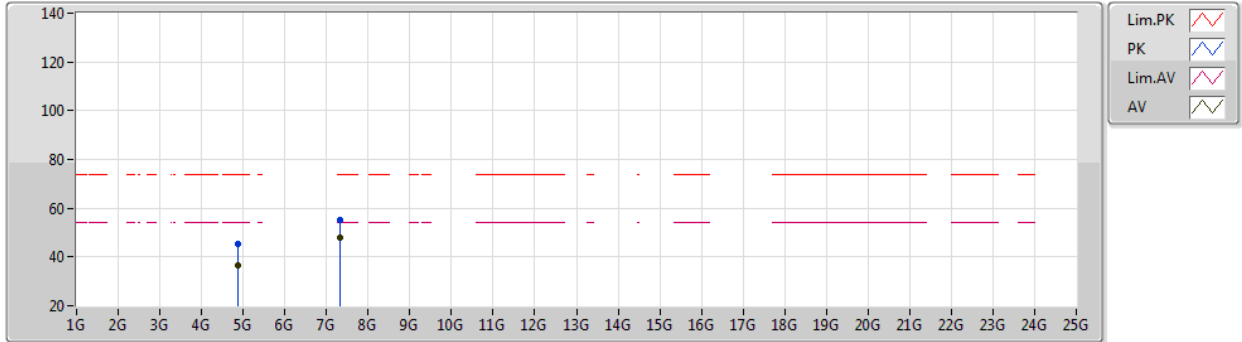
EUT X\_1TX  
Setting 10  
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87898G	50.12	74.00	-23.88	44.10	3	Vertical	182	2.68	-	33.12	4.70	31.80
AV	4.87898G	43.27	54.00	-10.73	37.25	3	Vertical	182	2.68	-	33.12	4.70	31.80
PK	7.32136G	57.91	74.00	-16.09	48.14	3	Vertical	174	2.34	-	36.44	5.76	32.43
AV	7.31862G	50.62	54.00	-3.38	40.85	3	Vertical	174	2.34	-	36.44	5.76	32.43

**BT-LE(2Mbps)**

12/01/2021

**2440MHz\_TX**



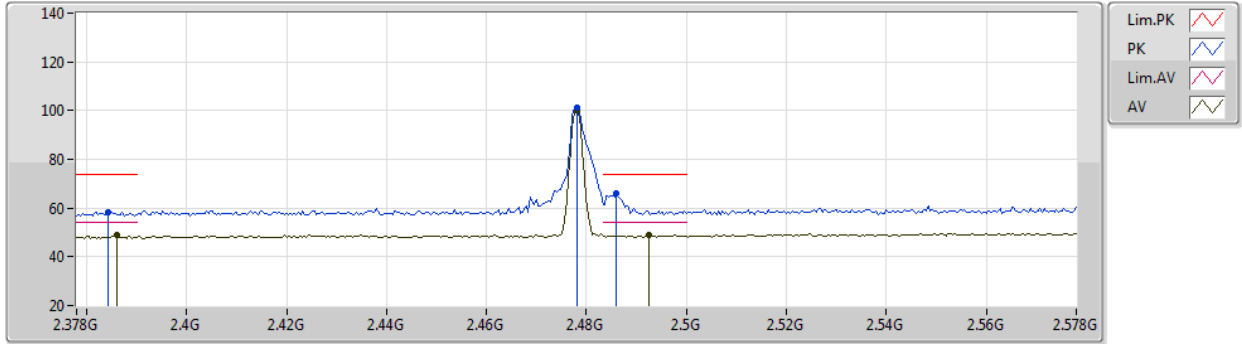
EUT X\_1TX  
Setting 10  
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87902G	45.40	74.00	-28.60	39.38	3	Horizontal	77	1.79	-	33.12	4.70	31.80
AV	4.87896G	36.66	54.00	-17.34	30.64	3	Horizontal	77	1.79	-	33.12	4.70	31.80
PK	7.31836G	55.20	74.00	-18.80	45.43	3	Horizontal	61	2.37	-	36.44	5.76	32.43
AV	7.3186G	47.86	54.00	-6.14	38.09	3	Horizontal	61	2.37	-	36.44	5.76	32.43

BT-LE(2Mbps)

12/01/2021

2478MHz\_TX



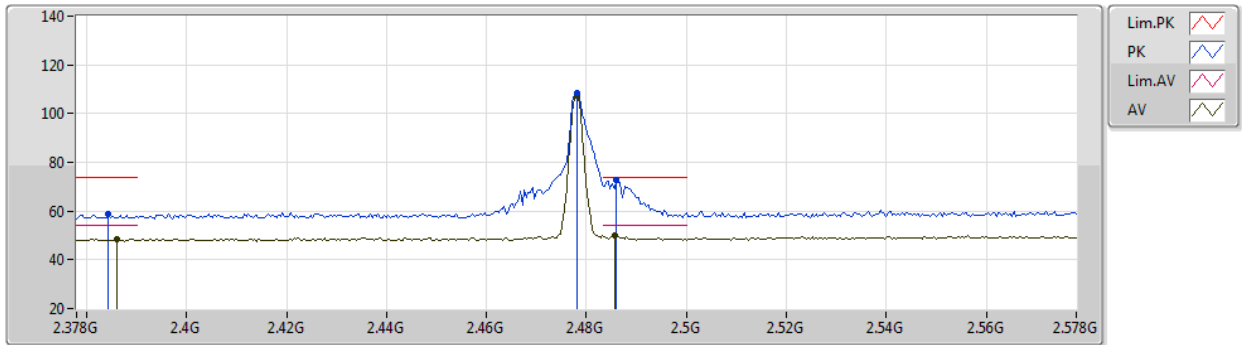
EUT Z\_1TX  
Setting 10  
02-B-B-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3844G	58.31	74.00	-15.69	27.60	3	Vertical	195	2.90	-	28.30	2.41	-
AV	2.386G	48.77	54.00	-5.23	18.06	3	Vertical	195	2.90	-	28.30	2.41	-
PK	2.478G	101.17	Inf	-Inf	70.22	3	Vertical	195	2.90	-	28.51	2.44	-
AV	2.478G	100.13	Inf	-Inf	69.18	3	Vertical	195	2.90	-	28.51	2.44	-
PK	2.486G	65.93	74.00	-8.07	34.95	3	Vertical	195	2.90	-	28.54	2.44	-
AV	2.4924G	48.93	54.00	-5.07	17.91	3	Vertical	195	2.90	-	28.57	2.45	-

**BT-LE(2Mbps)**

12/01/2021

**2478MHz\_TX**



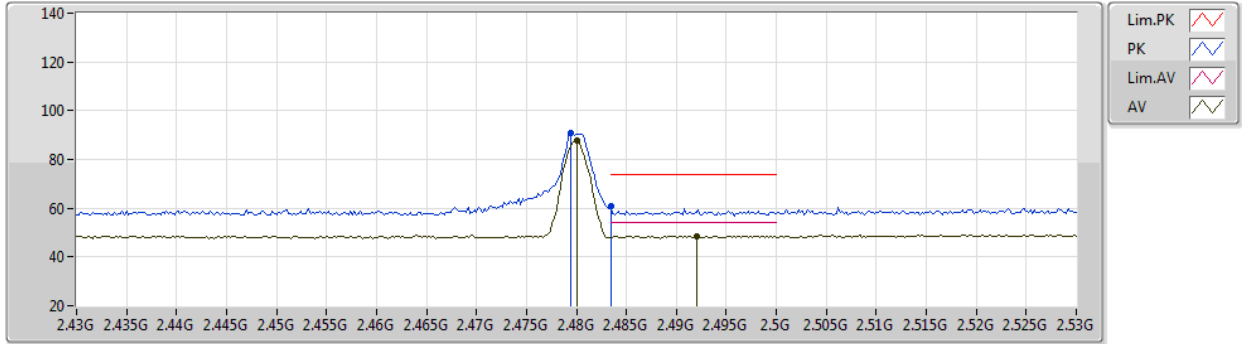
EUT\_Z\_1TX  
Setting 10  
02-B-B-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3844G	58.55	74.00	-15.45	27.84	3	Horizontal	295	2.89	-	28.30	2.41	-
AV	2.386G	48.38	54.00	-5.62	17.67	3	Horizontal	295	2.89	-	28.30	2.41	-
PK	2.478G	108.23	Inf	-Inf	77.28	3	Horizontal	295	2.89	-	28.51	2.44	-
AV	2.478G	107.29	Inf	-Inf	76.34	3	Horizontal	295	2.89	-	28.51	2.44	-
PK	2.486G	72.54	74.00	-1.46	41.56	3	Horizontal	295	2.89	-	28.54	2.44	-
AV	2.4856G	49.91	54.00	-4.09	18.93	3	Horizontal	295	2.89	-	28.54	2.44	-

**BT-LE(2Mbps)**

12/01/2021

**2480MHz\_TX**



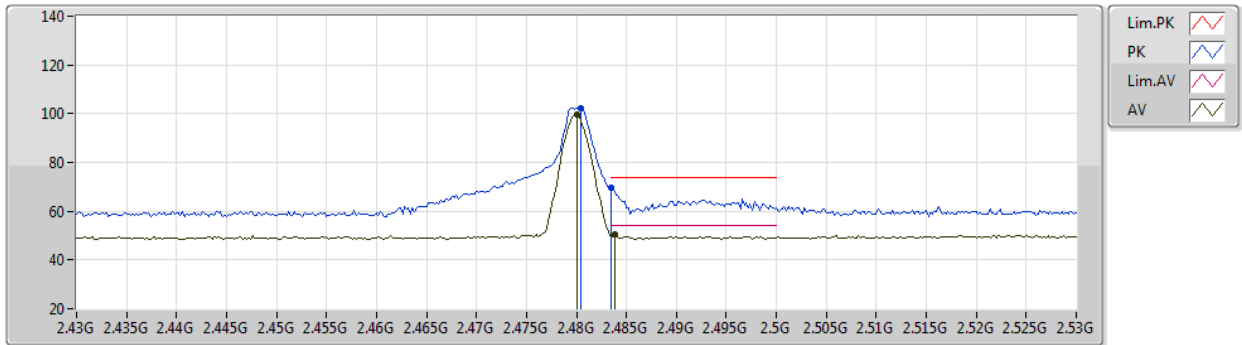
EUT\_Z\_1TX  
Setting 3  
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4794G	90.65	Inf	-Inf	59.69	3	Vertical	262	2.87	-	28.52	2.44	-
AV	2.48G	87.61	Inf	-Inf	56.65	3	Vertical	262	2.87	-	28.52	2.44	-
PK	2.4835G	61.03	74.00	-12.97	30.06	3	Vertical	262	2.87	-	28.53	2.44	-
AV	2.492G	48.65	54.00	-5.35	17.63	3	Vertical	262	2.87	-	28.57	2.45	-

**BT-LE(2Mbps)**

12/01/2021

**2480MHz\_TX**



EUT Z\_1TX  
Setting 3  
02-B-C-5

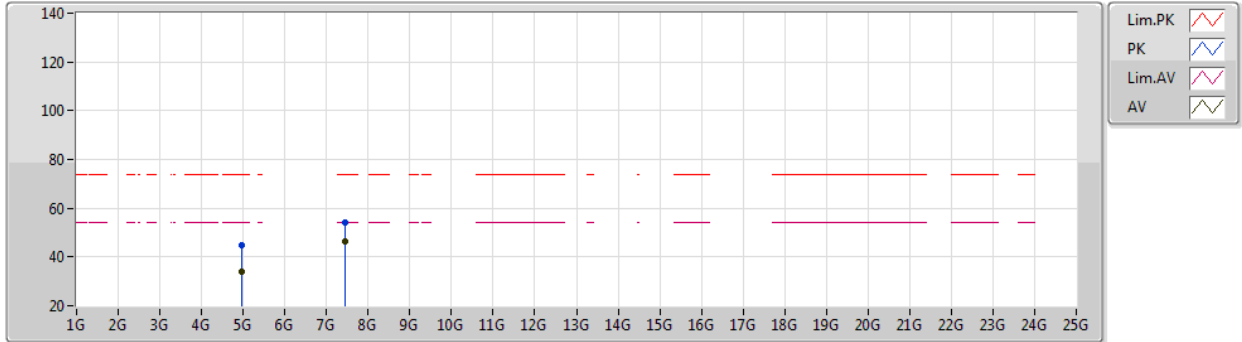
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PK	2.4804G	102.33	Inf	-Inf	71.37	3	Horizontal	11	2.87	-	28.52	2.44	-
AV	2.48G	99.50	Inf	-Inf	68.54	3	Horizontal	11	2.87	-	28.52	2.44	-
PK	2.4835G	69.53	74.00	-4.47	38.56	3	Horizontal	11	2.87	-	28.53	2.44	-
AV	2.4838G	50.26	54.00	-3.74	19.28	3	Horizontal	11	2.87	-	28.54	2.44	-



**BT-LE(2Mbps)**

12/01/2021

**2480MHz\_TX**



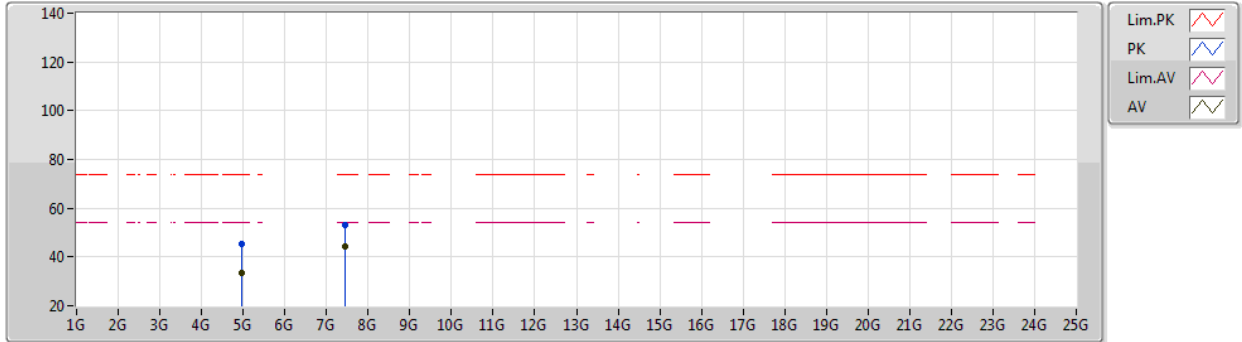
EUT X\_1TX  
Setting 3  
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.96084G	44.69	74.00	-29.31	38.60	3	Vertical	19	1.16	-	33.22	4.70	31.83
AV	4.9601G	33.95	54.00	-20.05	27.86	3	Vertical	19	1.16	-	33.22	4.70	31.83
PK	7.44138G	54.20	74.00	-19.80	44.36	3	Vertical	174	2.46	-	36.48	5.84	32.48
AV	7.43846G	46.36	54.00	-7.64	36.52	3	Vertical	174	2.46	-	36.48	5.84	32.48

**BT-LE(2Mbps)**

12/01/2021

**2480MHz\_TX**



EUT X\_1TX  
Setting 3  
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9572G	45.23	74.00	-28.77	39.14	3	Horizontal	49	1.76	-	33.21	4.70	31.82
AV	4.95596G	33.64	54.00	-20.36	27.55	3	Horizontal	49	1.76	-	33.21	4.70	31.82
PK	7.4414G	52.96	74.00	-21.04	43.12	3	Horizontal	63	2.37	-	36.48	5.84	32.48
AV	7.43846G	44.15	54.00	-9.85	34.31	3	Horizontal	63	2.37	-	36.48	5.84	32.48



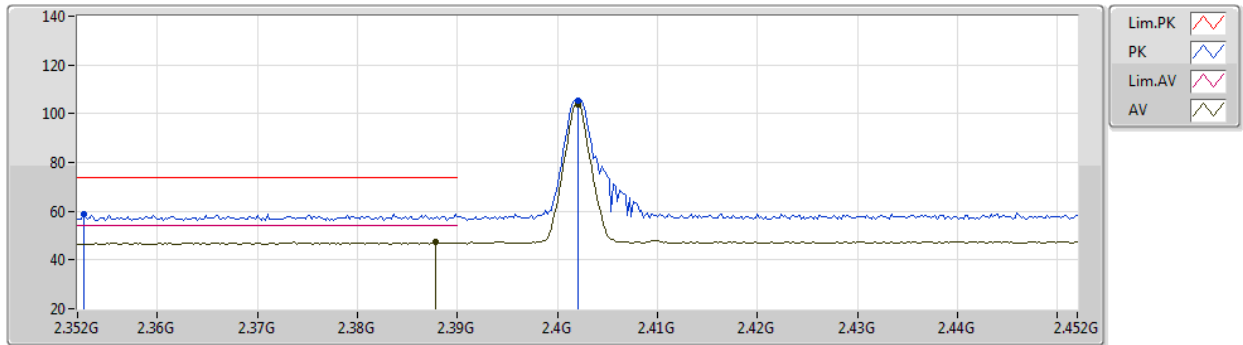
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	2.4838G	49.57	54.00	-4.43	3	Vertical	44	2.75	-

**BT-LE(1Mbps)**

12/01/2021

**2402MHz\_TX**



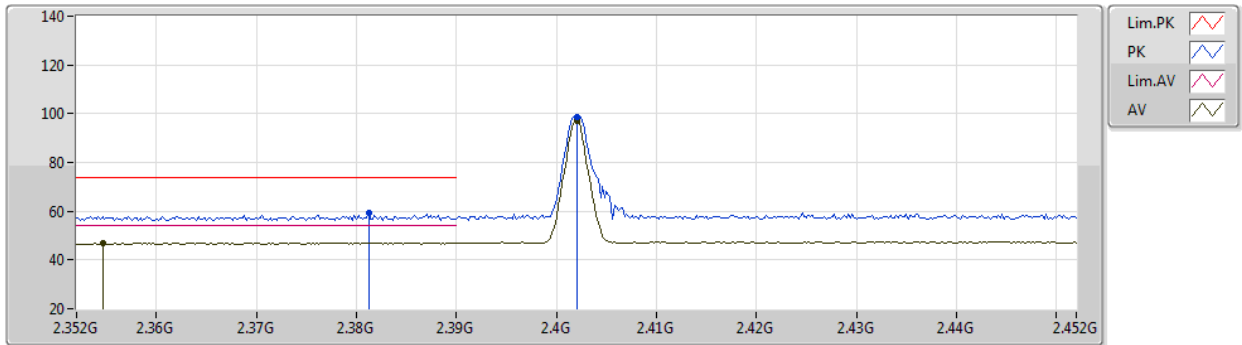
EUT X\_1TX  
Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3526G	58.71	74.00	-15.29	27.99	3	Vertical	34	2.56	-	28.30	2.42	-
AV	2.3878G	47.37	54.00	-6.63	16.66	3	Vertical	34	2.56	-	28.30	2.41	-
PK	2.402G	105.48	Inf	-Inf	74.78	3	Vertical	34	2.56	-	28.30	2.40	-
AV	2.402G	104.04	Inf	-Inf	73.34	3	Vertical	34	2.56	-	28.30	2.40	-

BT-LE(1Mbps)

12/01/2021

2402MHz\_TX



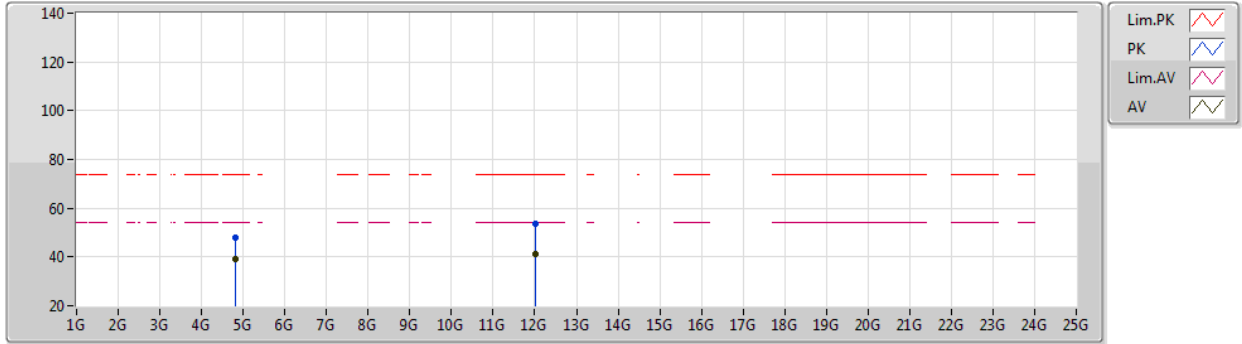
EUT X\_1TX  
Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3812G	59.20	74.00	-14.80	28.49	3	Horizontal	10	1.00	-	28.30	2.41	-
AV	2.3546G	47.14	54.00	-6.86	16.42	3	Horizontal	10	1.00	-	28.30	2.42	-
PK	2.402G	98.60	Inf	-Inf	67.90	3	Horizontal	10	1.00	-	28.30	2.40	-
AV	2.402G	97.15	Inf	-Inf	66.45	3	Horizontal	10	1.00	-	28.30	2.40	-

**BT-LE(1Mbps)**

12/01/2021

**2402MHz\_TX**



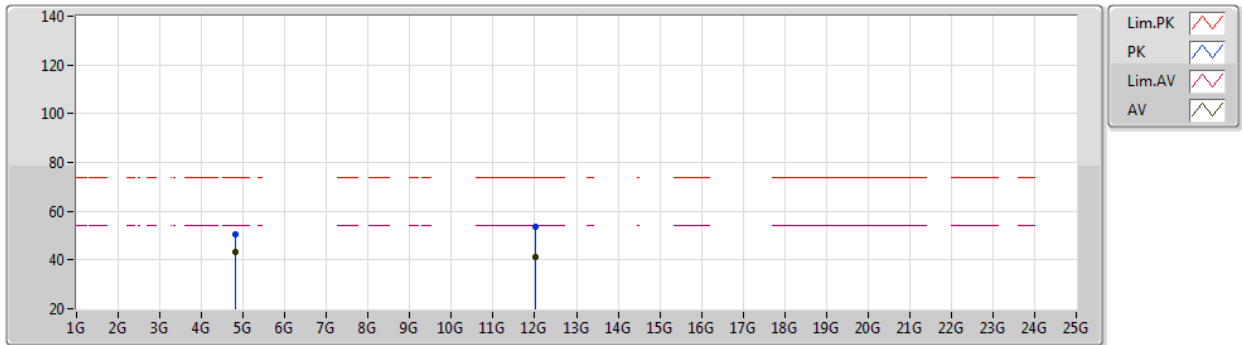
EUT Y\_1TX  
Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.80354G	47.81	74.00	-26.19	42.07	3	Vertical	314	1.45	-	32.81	4.70	31.77
AV	4.804G	38.98	54.00	-15.02	33.23	3	Vertical	314	1.45	-	32.82	4.70	31.77
PK	12.01112G	53.51	74.00	-20.49	39.38	3	Vertical	254	1.00	-	39.27	7.80	32.94
AV	12.00998G	41.03	54.00	-12.97	26.90	3	Vertical	254	1.00	-	39.27	7.80	32.94

BT-LE(1Mbps)

12/01/2021

2402MHz\_TX



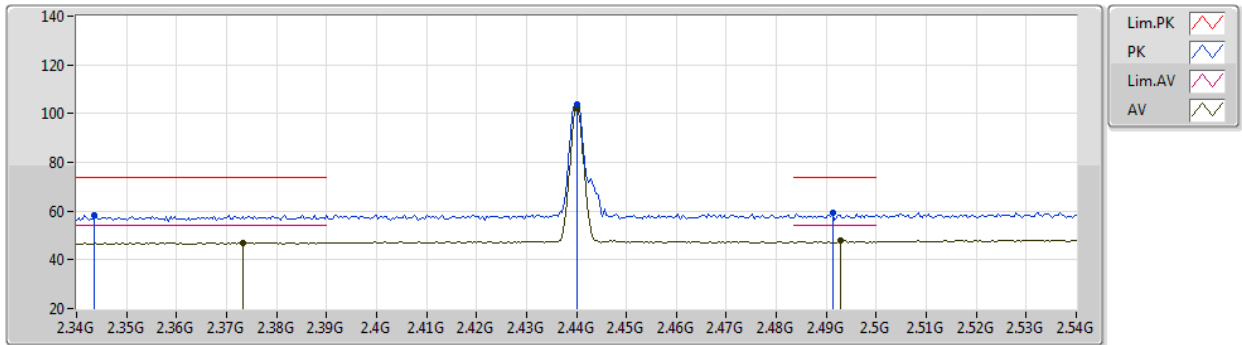
EUT Y\_1TX  
Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.80354G	50.49	74.00	-23.51	44.75	3	Horizontal	217	1.80	-	32.81	4.70	31.77
AV	4.8039G	43.39	54.00	-10.61	37.64	3	Horizontal	217	1.80	-	32.82	4.70	31.77
PK	12.00622G	53.77	74.00	-20.23	39.63	3	Horizontal	340	1.35	-	39.28	7.80	32.94
AV	12.00824G	41.12	54.00	-12.88	26.98	3	Horizontal	340	1.35	-	39.28	7.80	32.94

**BT-LE(1Mbps)**

13/01/2021

**2440MHz\_TX**



EUT X\_1TX  
Setting 10  
02-B-K-4

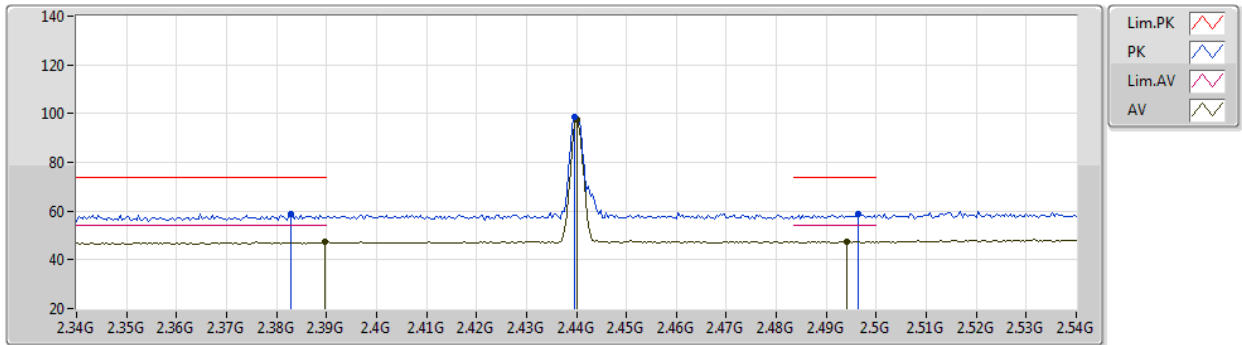
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3436G	58.29	74.00	-15.71	27.60	3	Vertical	31	1.00	-	28.26	2.43	-
AV	2.3732G	47.13	54.00	-6.87	16.42	3	Vertical	31	1.00	-	28.30	2.41	-
PK	2.44G	103.66	Inf	-Inf	72.86	3	Vertical	31	1.00	-	28.38	2.42	-
AV	2.44G	102.21	Inf	-Inf	71.41	3	Vertical	31	1.00	-	28.38	2.42	-
PK	2.4912G	59.30	74.00	-14.70	28.29	3	Vertical	31	1.00	-	28.56	2.45	-
AV	2.4928G	47.72	54.00	-6.28	16.70	3	Vertical	31	1.00	-	28.57	2.45	-



**BT-LE(1Mbps)**

13/01/2021

**2440MHz\_TX**



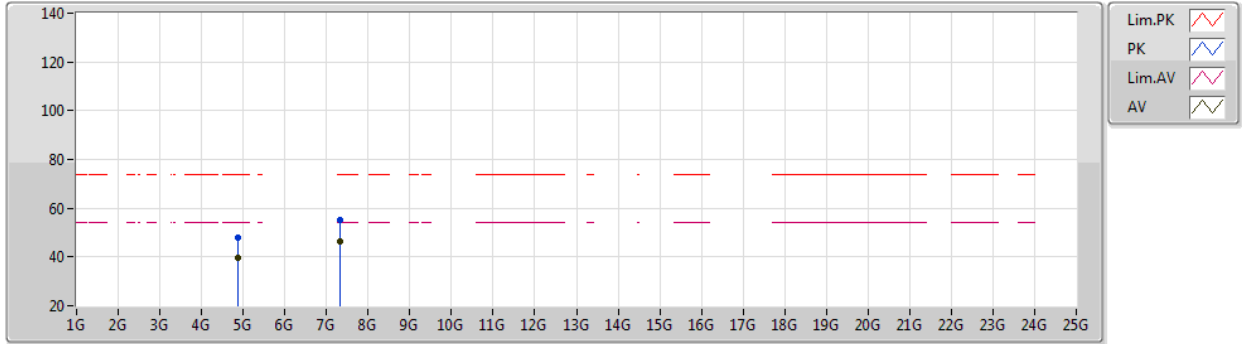
EUT\_X\_1TX  
Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3828G	58.92	74.00	-15.08	28.21	3	Horizontal	221	2.89	-	28.30	2.41	-
AV	2.3896G	47.23	54.00	-6.77	16.52	3	Horizontal	221	2.89	-	28.30	2.41	-
PK	2.4396G	98.78	Inf	-Inf	67.98	3	Horizontal	221	2.89	-	28.38	2.42	-
AV	2.44G	97.50	Inf	-Inf	66.70	3	Horizontal	221	2.89	-	28.38	2.42	-
PK	2.4964G	58.55	74.00	-15.45	27.51	3	Horizontal	221	2.89	-	28.59	2.45	-
AV	2.494G	47.48	54.00	-6.52	16.45	3	Horizontal	221	2.89	-	28.58	2.45	-

**BT-LE(1Mbps)**

13/01/2021

**2440MHz\_TX**



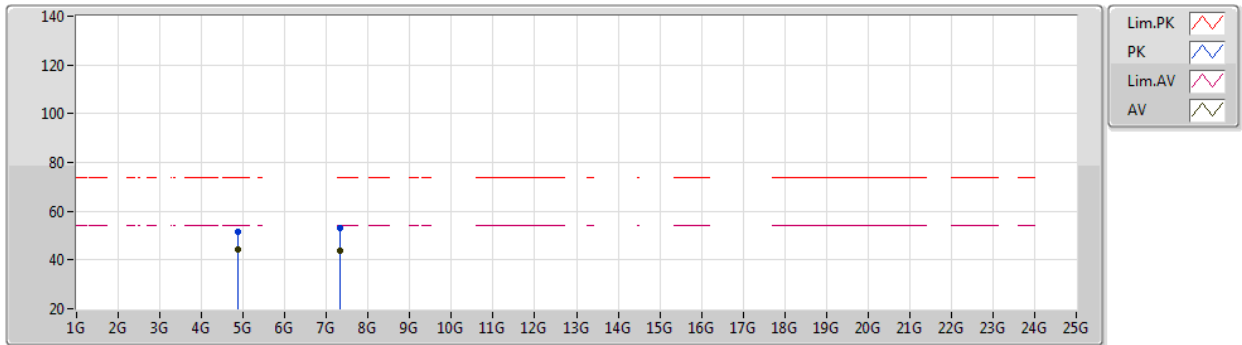
EUT Y\_1TX  
Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87968G	48.03	74.00	-25.97	42.01	3	Vertical	136	2.20	-	33.12	4.70	31.80
AV	4.87992G	39.41	54.00	-14.59	33.39	3	Vertical	136	2.20	-	33.12	4.70	31.80
PK	7.32072G	55.07	74.00	-18.93	45.30	3	Vertical	175	2.11	-	36.44	5.76	32.43
AV	7.31932G	46.18	54.00	-7.82	36.41	3	Vertical	175	2.11	-	36.44	5.76	32.43

**BT-LE(1Mbps)**

13/01/2021

**2440MHz\_TX**



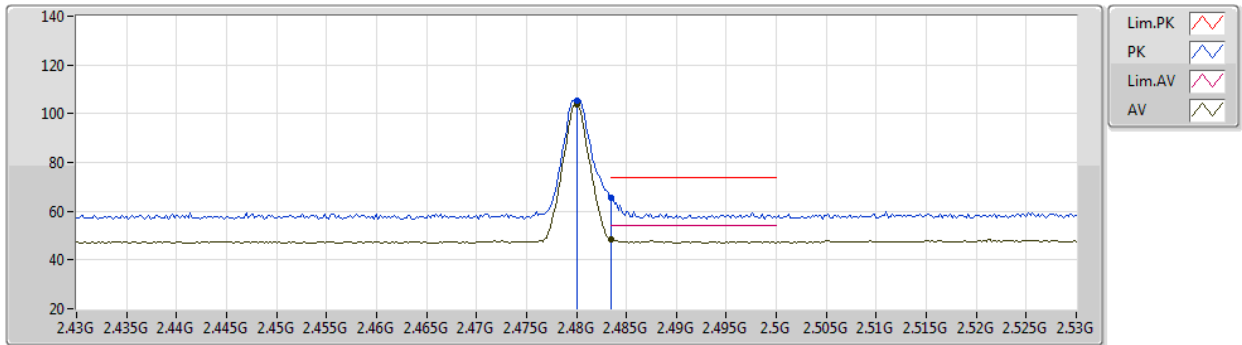
EUT Y\_1TX  
Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87954G	51.40	74.00	-22.60	45.38	3	Horizontal	217	2.05	-	33.12	4.70	31.80
AV	4.8799G	44.51	54.00	-9.49	38.49	3	Horizontal	217	2.05	-	33.12	4.70	31.80
PK	7.3201G	53.03	74.00	-20.97	43.26	3	Horizontal	170	2.08	-	36.44	5.76	32.43
AV	7.31926G	43.87	54.00	-10.13	34.10	3	Horizontal	170	2.08	-	36.44	5.76	32.43

**BT-LE(1Mbps)**

12/01/2021

**2480MHz\_TX**



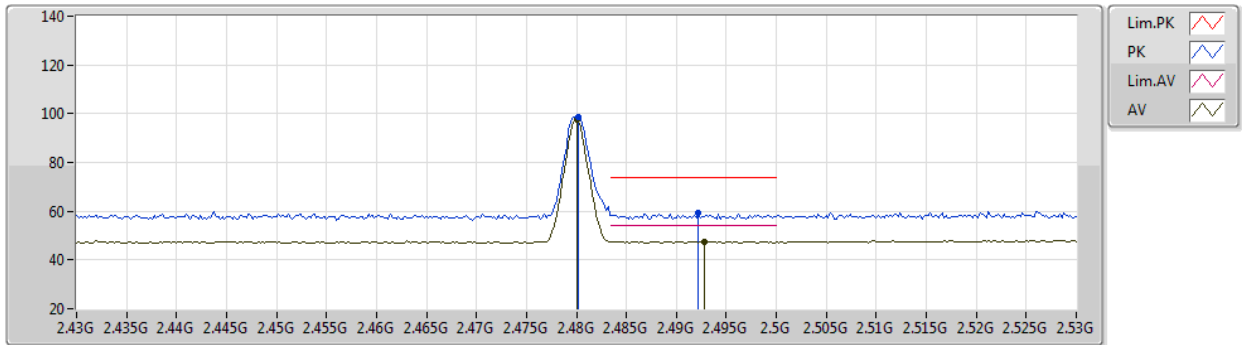
EUT X\_1TX  
Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.48G	105.42	Inf	-Inf	74.46	3	Vertical	32	1.62	-	28.52	2.44	-
AV	2.48G	103.99	Inf	-Inf	73.03	3	Vertical	32	1.62	-	28.52	2.44	-
PK	2.4835G	65.71	74.00	-8.29	34.74	3	Vertical	32	1.62	-	28.53	2.44	-
AV	2.4835G	48.21	54.00	-5.79	17.24	3	Vertical	32	1.62	-	28.53	2.44	-

**BT-LE(1Mbps)**

12/01/2021

**2480MHz\_TX**



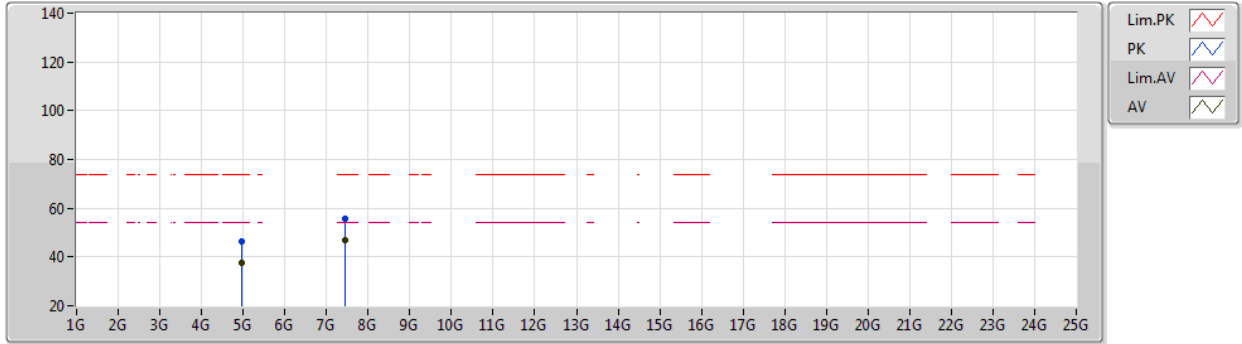
EUT X\_1TX  
Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4802G	98.49	Inf	-Inf	67.53	3	Horizontal	220	1.55	-	28.52	2.44	-
AV	2.48G	97.45	Inf	-Inf	66.49	3	Horizontal	220	1.55	-	28.52	2.44	-
PK	2.4922G	59.20	74.00	-14.80	28.18	3	Horizontal	220	1.55	-	28.57	2.45	-
AV	2.4928G	47.55	54.00	-6.45	16.53	3	Horizontal	220	1.55	-	28.57	2.45	-

**BT-LE(1Mbps)**

12/01/2021

**2480MHz\_TX**



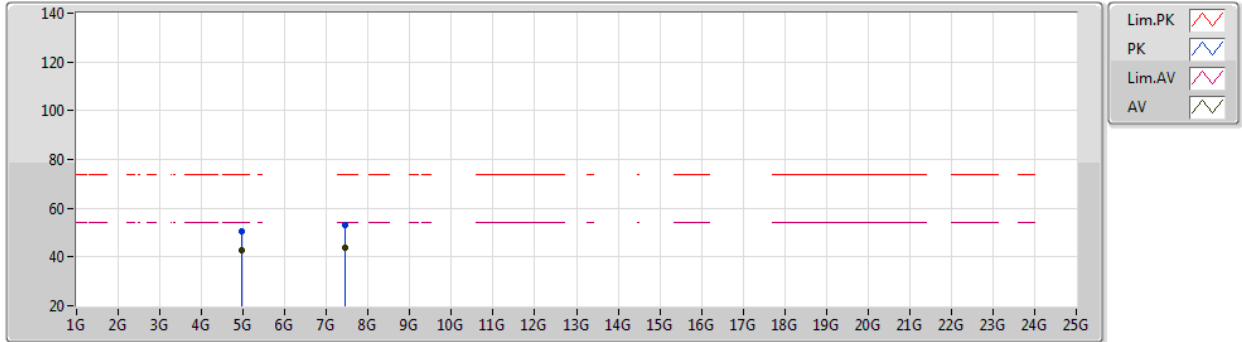
EUT Y\_1TX  
Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.96054G	46.58	74.00	-27.42	40.49	3	Vertical	222	2.63	-	33.22	4.70	31.83
AV	4.9599G	37.65	54.00	-16.35	31.56	3	Vertical	222	2.63	-	33.22	4.70	31.83
PK	7.44064G	55.71	74.00	-18.29	45.87	3	Vertical	238	1.80	-	36.48	5.84	32.48
AV	7.43936G	46.87	54.00	-7.13	37.03	3	Vertical	238	1.80	-	36.48	5.84	32.48

**BT-LE(1Mbps)**

12/01/2021

**2480MHz\_TX**



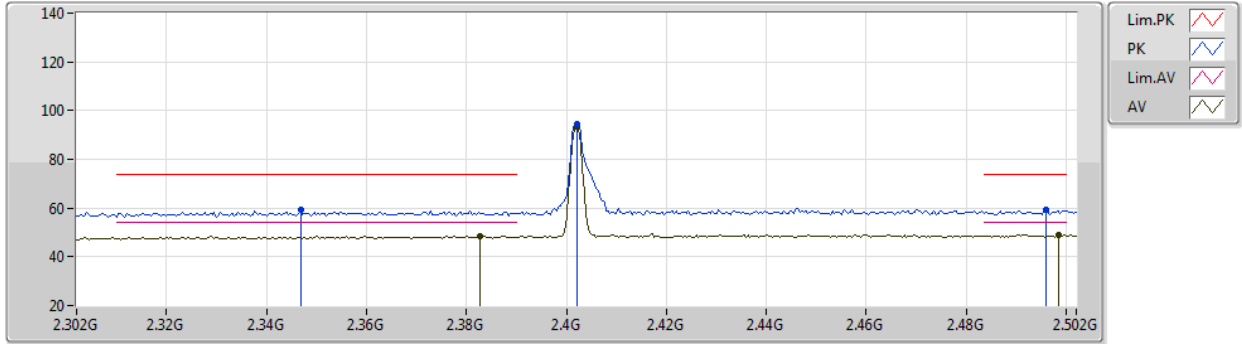
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Setting 10  
02-B-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.96028G	50.54	74.00	-23.46	44.45	3	Horizontal	218	1.99	-	33.22	4.70	31.83
AV	4.95996G	42.77	54.00	-11.23	36.68	3	Horizontal	218	1.99	-	33.22	4.70	31.83
PK	7.44058G	53.03	74.00	-20.97	43.19	3	Horizontal	189	1.80	-	36.48	5.84	32.48
AV	7.43924G	43.92	54.00	-10.08	34.08	3	Horizontal	189	1.80	-	36.48	5.84	32.48

BT-LE(2Mbps)

18/02/2021

2402MHz\_TX



EUT X\_1TX  
Setting 10  
02-B-B-3

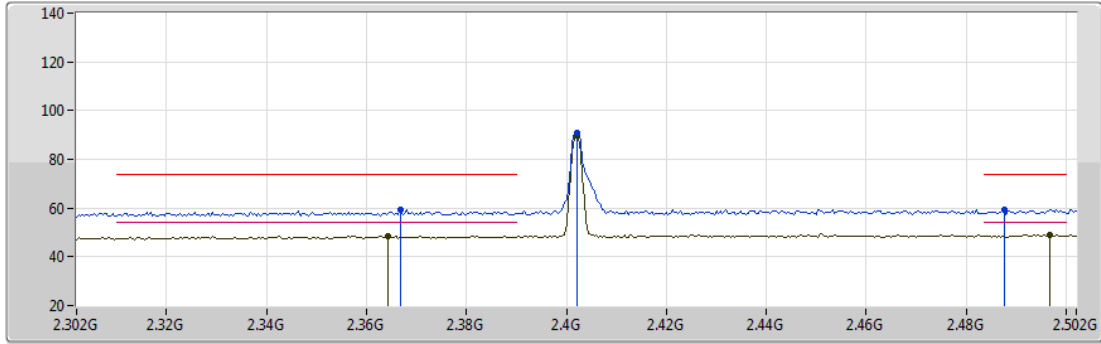
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PK	2.3468G	59.39	74.00	-14.61	28.68	3	Vertical	46	2.52	-	28.28	2.43	-
AV	2.3828G	48.54	54.00	-5.46	17.83	3	Vertical	46	2.52	-	28.30	2.41	-
PK	2.402G	94.39	Inf	-Inf	63.69	3	Vertical	46	2.52	-	28.30	2.40	-
AV	2.402G	93.41	Inf	-Inf	62.71	3	Vertical	46	2.52	-	28.30	2.40	-
PK	2.496G	59.40	74.00	-14.60	28.37	3	Vertical	46	2.52	-	28.58	2.45	-
AV	2.4984G	48.85	54.00	-5.15	17.81	3	Vertical	46	2.52	-	28.59	2.45	-



BT-LE(2Mbps)

18/02/2021

2402MHz\_TX



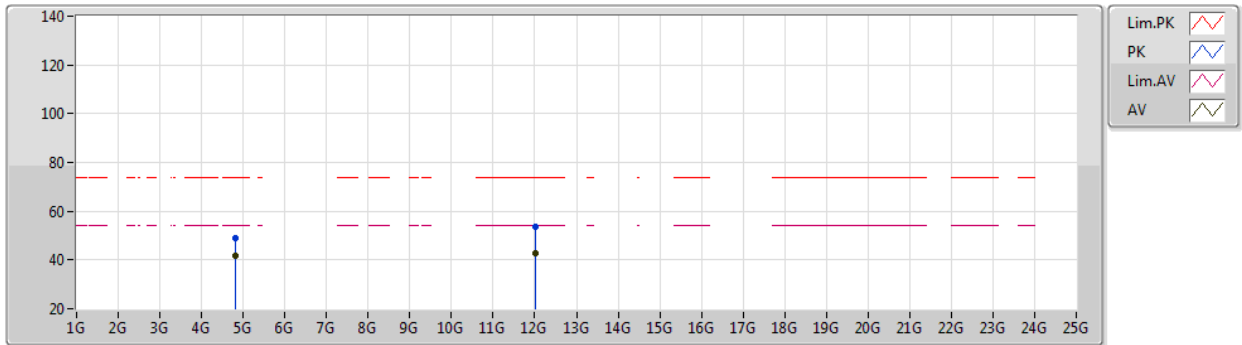
EUT X\_1TX  
Setting 10  
02-B-B-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3668G	59.45	74.00	-14.55	28.73	3	Horizontal	355	2.47	-	28.30	2.42	-
AV	2.3644G	48.53	54.00	-5.47	17.81	3	Horizontal	355	2.47	-	28.30	2.42	-
PK	2.402G	90.69	Inf	-Inf	59.99	3	Horizontal	355	2.47	-	28.30	2.40	-
AV	2.402G	89.66	Inf	-Inf	58.96	3	Horizontal	355	2.47	-	28.30	2.40	-
PK	2.4876G	59.53	74.00	-14.47	28.54	3	Horizontal	355	2.47	-	28.55	2.44	-
AV	2.4968G	48.98	54.00	-5.02	17.94	3	Horizontal	355	2.47	-	28.59	2.45	-

BT-LE(2Mbps)

18/02/2021

2402MHz\_TX



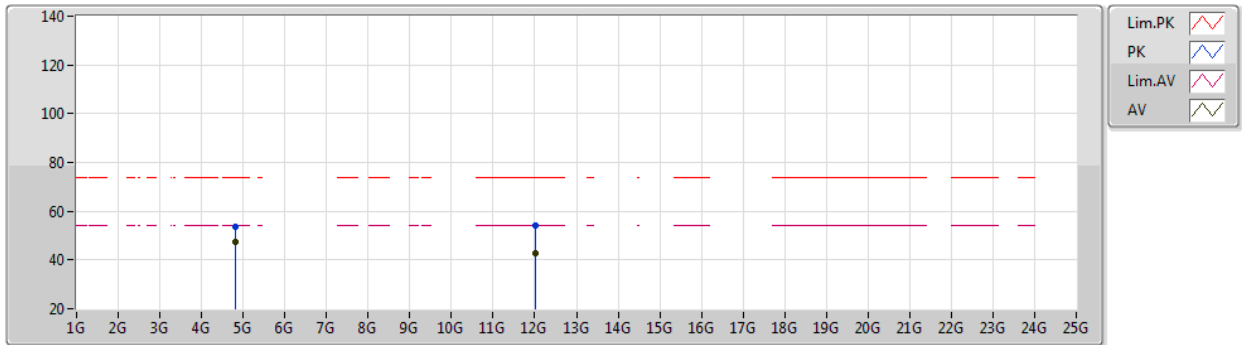
EUT Y\_1TX  
Setting 10  
02-B-B-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.80341G	48.77	74.00	-25.23	43.03	3	Vertical	281	1.80	-	32.81	4.70	31.77
AV	4.80359G	41.79	54.00	-12.21	36.05	3	Vertical	281	1.80	-	32.81	4.70	31.77
PK	12.01024G	53.53	74.00	-20.47	39.40	3	Vertical	232	2.41	-	39.27	7.80	32.94
AV	12.00966G	42.87	54.00	-11.13	28.74	3	Vertical	232	2.41	-	39.27	7.80	32.94

**BT-LE(2Mbps)**

18/02/2021

**2402MHz\_TX**



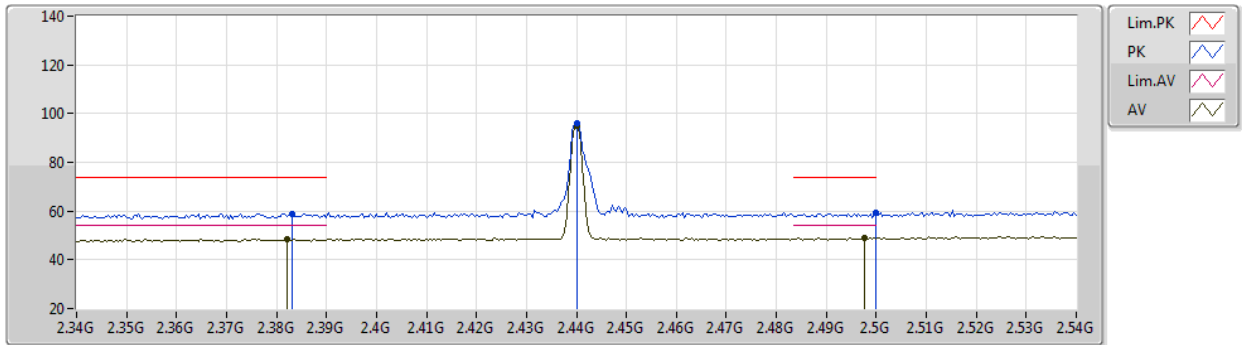
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Setting 10  
02-B-B-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.80401G	53.42	74.00	-20.58	47.67	3	Horizontal	274	1.80	-	32.82	4.70	31.77
AV	4.80368G	47.64	54.00	-6.36	41.90	3	Horizontal	274	1.80	-	32.81	4.70	31.77
PK	12.00862G	54.36	74.00	-19.64	40.23	3	Horizontal	357	1.80	-	39.27	7.80	32.94
AV	12.00882G	43.00	54.00	-11.00	28.87	3	Horizontal	357	1.80	-	39.27	7.80	32.94

BT-LE(2Mbps)

18/02/2021

2440MHz\_TX



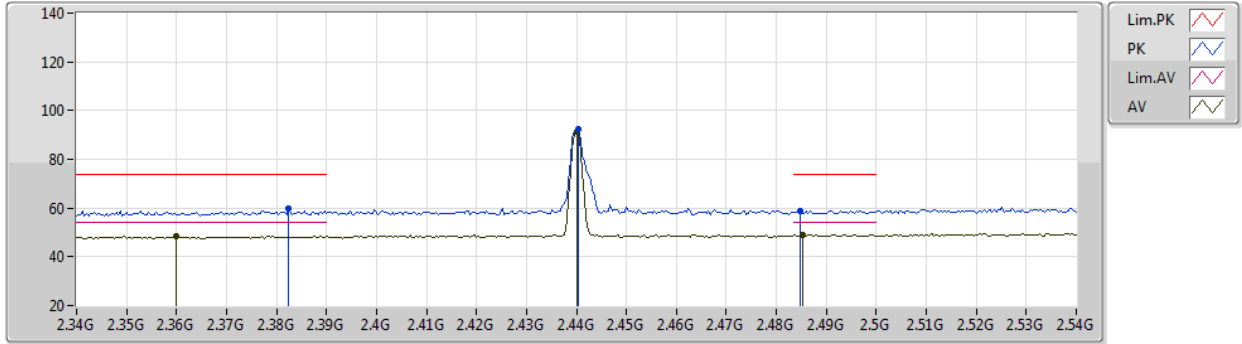
EUT X\_1TX  
Setting 10  
02-B-B-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3832G	58.92	74.00	-15.08	28.21	3	Vertical	46	2.80	-	28.30	2.41	-
AV	2.382G	48.63	54.00	-5.37	17.92	3	Vertical	46	2.80	-	28.30	2.41	-
PK	2.44G	96.08	Inf	-Inf	65.28	3	Vertical	46	2.80	-	28.38	2.42	-
AV	2.44G	95.03	Inf	-Inf	64.23	3	Vertical	46	2.80	-	28.38	2.42	-
PK	2.5G	59.49	74.00	-14.51	28.44	3	Vertical	46	2.80	-	28.60	2.45	-
AV	2.4976G	49.21	54.00	-4.79	18.17	3	Vertical	46	2.80	-	28.59	2.45	-

**BT-LE(2Mbps)**

18/02/2021

**2440MHz\_TX**



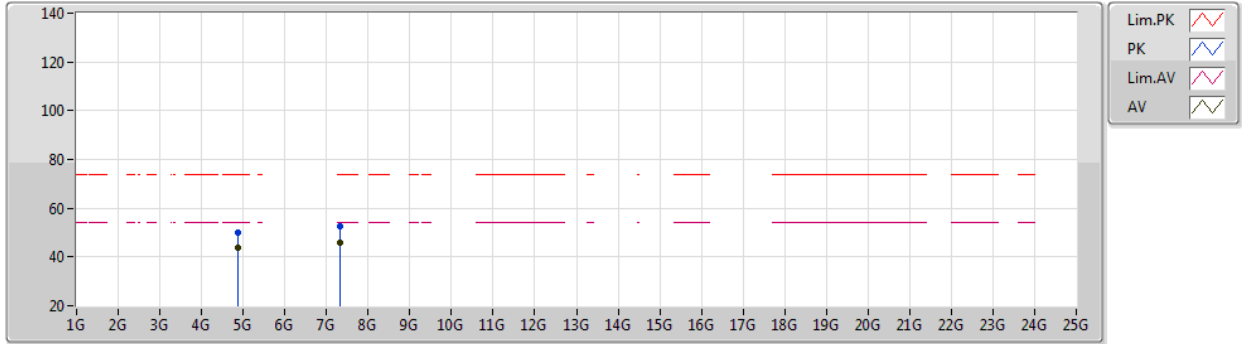
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Setting 10  
02-B-B-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3824G	60.04	74.00	-13.96	29.33	3	Horizontal	58	2.71	-	28.30	2.41	-
AV	2.36G	48.57	54.00	-5.43	17.85	3	Horizontal	58	2.71	-	28.30	2.42	-
PK	2.4404G	92.28	Inf	-Inf	61.48	3	Horizontal	58	2.71	-	28.38	2.42	-
AV	2.44G	91.23	Inf	-Inf	60.43	3	Horizontal	58	2.71	-	28.38	2.42	-
PK	2.4848G	59.05	74.00	-14.95	28.07	3	Horizontal	58	2.71	-	28.54	2.44	-
AV	2.4852G	49.19	54.00	-4.81	18.21	3	Horizontal	58	2.71	-	28.54	2.44	-

**BT-LE(2Mbps)**

18/02/2021

**2440MHz\_TX**



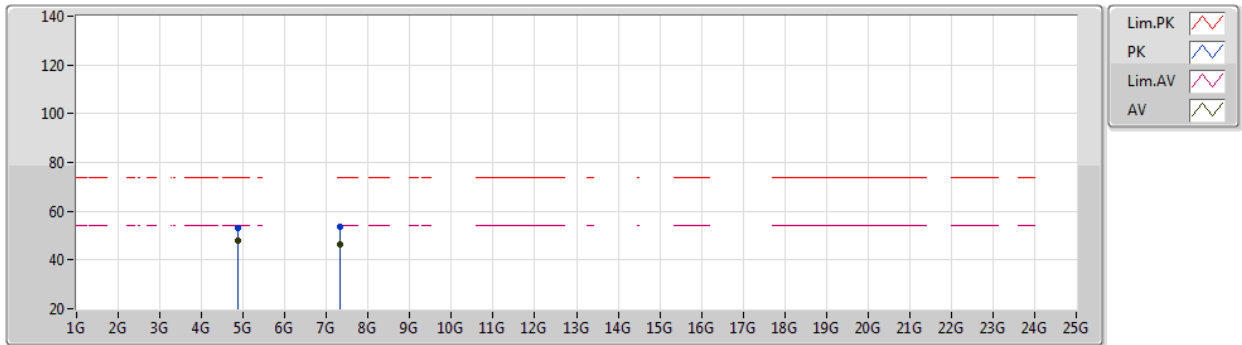
EUT Y\_1TX  
Setting 10  
02-B-B-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88058G	50.18	74.00	-23.82	44.16	3	Vertical	281	1.90	-	33.12	4.70	31.80
AV	4.87963G	43.64	54.00	-10.36	37.62	3	Vertical	281	1.90	-	33.12	4.70	31.80
PK	7.32019G	52.69	74.00	-21.31	42.92	3	Vertical	275	2.70	-	36.44	5.76	32.43
AV	7.31926G	45.97	54.00	-8.03	36.20	3	Vertical	275	2.70	-	36.44	5.76	32.43

**BT-LE(2Mbps)**

18/02/2021

**2440MHz\_TX**



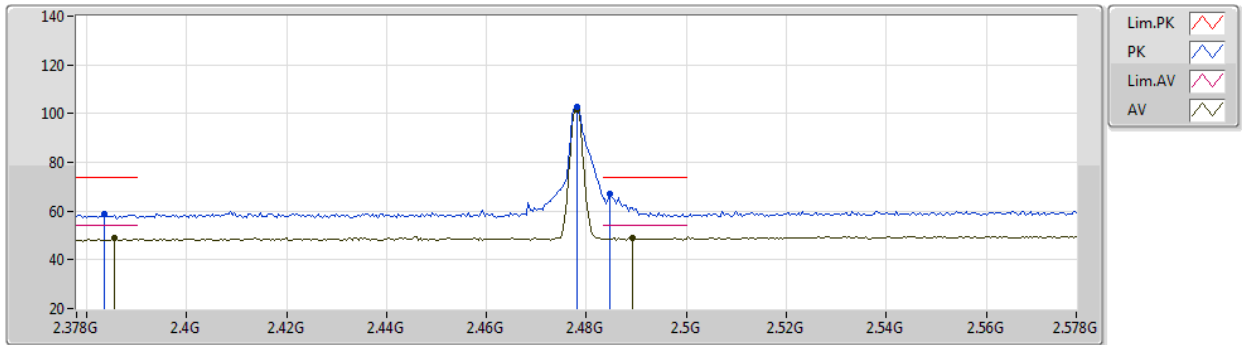
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Setting 10  
02-B-B-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88043G	53.33	74.00	-20.67	47.31	3	Horizontal	271	1.80	-	33.12	4.70	31.80
AV	4.87965G	48.06	54.00	-5.94	42.04	3	Horizontal	271	1.80	-	33.12	4.70	31.80
PK	7.32081G	53.58	74.00	-20.42	43.81	3	Horizontal	274	2.17	-	36.44	5.76	32.43
AV	7.31932G	46.42	54.00	-7.58	36.65	3	Horizontal	274	2.17	-	36.44	5.76	32.43

BT-LE(2Mbps)

18/02/2021

2478MHz\_TX



EUT X\_1TX  
Setting 10  
02-B-B-3

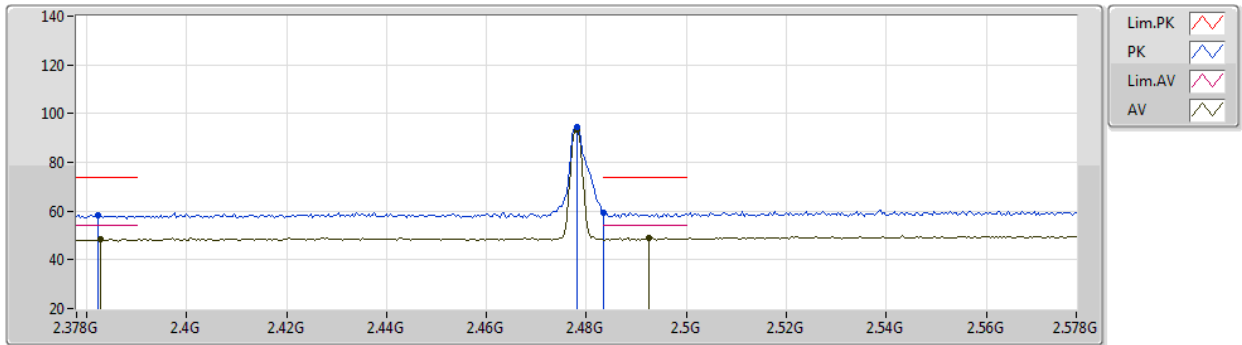
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PK	2.3836G	58.63	74.00	-15.37	27.92	3	Vertical	27	1.64	-	28.30	2.41	-
AV	2.3856G	48.79	54.00	-5.21	18.08	3	Vertical	27	1.64	-	28.30	2.41	-
PK	2.478G	102.92	Inf	-Inf	71.97	3	Vertical	27	1.64	-	28.51	2.44	-
AV	2.478G	101.84	Inf	-Inf	70.89	3	Vertical	27	1.64	-	28.51	2.44	-
PK	2.4848G	67.01	74.00	-6.99	36.03	3	Vertical	27	1.64	-	28.54	2.44	-
AV	2.4892G	49.02	54.00	-4.98	18.02	3	Vertical	27	1.64	-	28.56	2.44	-



BT-LE(2Mbps)

18/02/2021

2478MHz\_TX



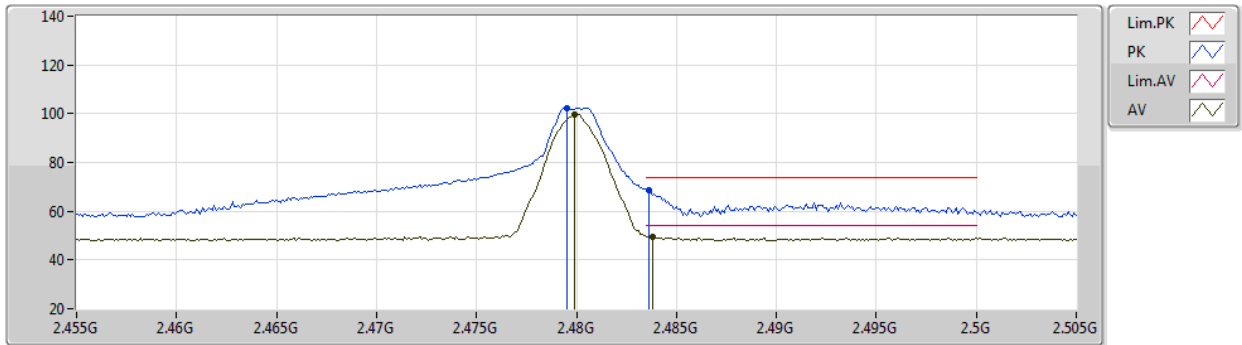
EUT X\_1TX  
Setting 10  
02-B-B-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3824G	58.40	74.00	-15.60	27.69	3	Horizontal	13	2.51	-	28.30	2.41	-
AV	2.3828G	48.53	54.00	-5.47	17.82	3	Horizontal	13	2.51	-	28.30	2.41	-
PK	2.478G	94.62	Inf	-Inf	63.67	3	Horizontal	13	2.51	-	28.51	2.44	-
AV	2.478G	93.60	Inf	-Inf	62.65	3	Horizontal	13	2.51	-	28.51	2.44	-
PK	2.4835G	59.50	74.00	-14.50	28.53	3	Horizontal	13	2.51	-	28.53	2.44	-
AV	2.4924G	48.97	54.00	-5.03	17.95	3	Horizontal	13	2.51	-	28.57	2.45	-

BT-LE(2Mbps)

18/02/2021

2480MHz\_TX



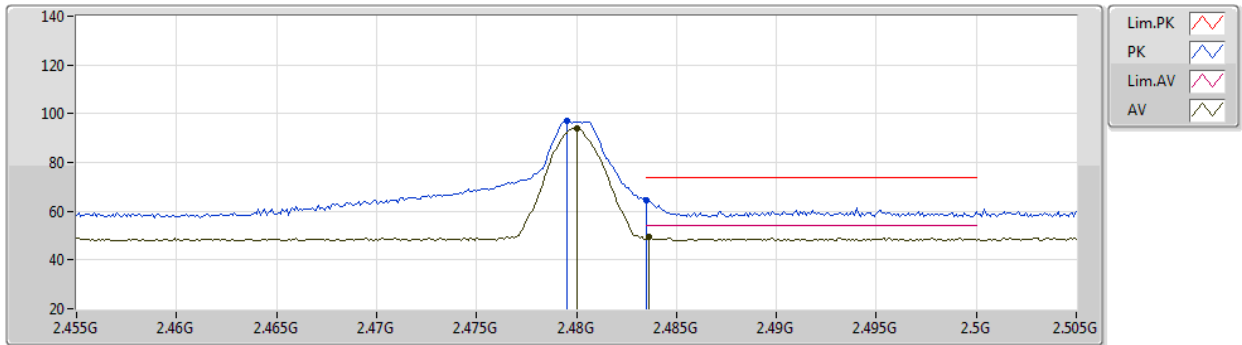
EUT X\_1TX  
Setting 3  
02-B-B-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4795G	102.34	Inf	-Inf	71.38	3	Vertical	44	2.75	-	28.52	2.44	-
AV	2.4799G	99.43	Inf	-Inf	68.47	3	Vertical	44	2.75	-	28.52	2.44	-
PK	2.4836G	68.86	74.00	-5.14	37.89	3	Vertical	44	2.75	-	28.53	2.44	-
AV	2.4838G	49.57	54.00	-4.43	18.59	3	Vertical	44	2.75	-	28.54	2.44	-

BT-LE(2Mbps)

18/02/2021

2480MHz\_TX



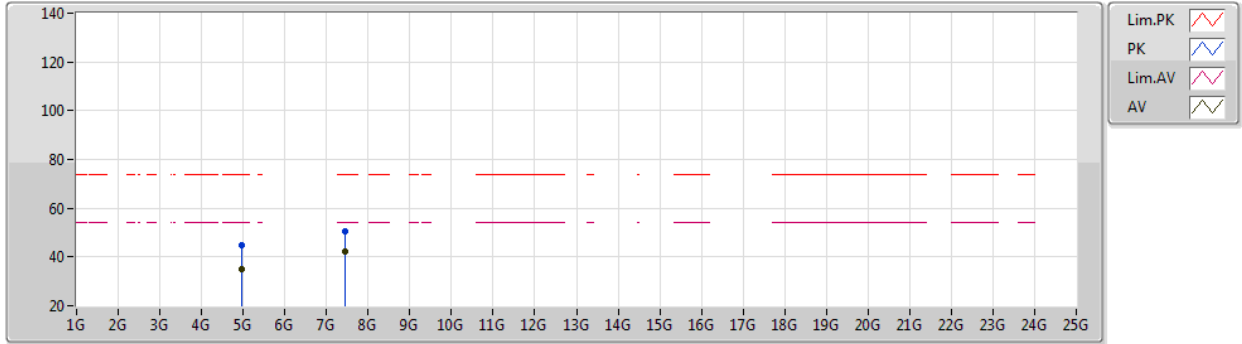
EUT X\_1TX  
Setting 3  
02-B-B-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4795G	96.83	Inf	-Inf	65.87	3	Horizontal	54	2.90	-	28.52	2.44	-
AV	2.48G	93.96	Inf	-Inf	63.00	3	Horizontal	54	2.90	-	28.52	2.44	-
PK	2.4835G	64.61	74.00	-9.39	33.64	3	Horizontal	54	2.90	-	28.53	2.44	-
AV	2.4836G	49.45	54.00	-4.55	18.48	3	Horizontal	54	2.90	-	28.53	2.44	-

**BT-LE(2Mbps)**

18/02/2021

**2480MHz\_TX**



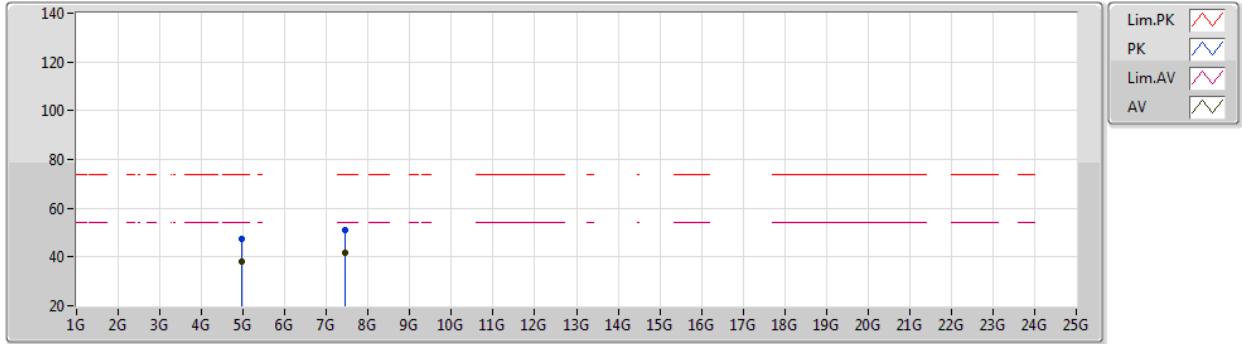
EUT Y\_1TX  
Setting 3  
02-B-B-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.95724G	44.98	74.00	-29.02	38.89	3	Vertical	280	1.78	-	33.21	4.70	31.82
AV	4.95908G	34.76	54.00	-19.24	28.67	3	Vertical	280	1.78	-	33.22	4.70	31.83
PK	7.43842G	50.54	74.00	-23.46	40.70	3	Vertical	200	2.23	-	36.48	5.84	32.48
AV	7.43852G	42.00	54.00	-12.00	32.16	3	Vertical	200	2.23	-	36.48	5.84	32.48

**BT-LE(2Mbps)**

18/02/2021

**2480MHz\_TX**



EUT Y\_1TX  
Setting 3  
02-B-B-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9594G	47.31	74.00	-26.69	41.22	3	Horizontal	307	1.50	-	33.22	4.70	31.83
AV	4.95897G	38.28	54.00	-15.72	32.19	3	Horizontal	307	1.50	-	33.22	4.70	31.83
PK	7.4415G	50.79	74.00	-23.21	40.95	3	Horizontal	278	2.15	-	36.48	5.84	32.48
AV	7.43844G	41.55	54.00	-12.45	31.71	3	Horizontal	278	2.15	-	36.48	5.84	32.48