

# FCC Radio Test Report

**FCC ID** : COF-WMBACMT63  
**Equipment** : 802.11a/b/g/n/ac dual-band Wi-Fi + BT 5.1 Module  
**Brand Name** : USI  
**Model Name** : WM-BAC-MT-63  
**Applicant** : Universal Global Scientific Industrial Co., Ltd.  
141, Lane 351, Sec. 1, Taiping Road., Tsaotuen,  
Nantou 542007, Taiwan  
**Manufacturer** : Universal Global Scientific Industrial Co., Ltd.  
141, Lane 351, Sec. 1, Taiping Road., Tsaotuen,  
Nantou 542007, Taiwan  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Apr. 08, 2021, and testing was started from Apr. 27, 2021 and completed on Jun. 21, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. Hsinhua Laboratory**

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



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### Summary of Test Result

Report Clause	Ref.Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

<b>Declaration of Conformity:</b>
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
<b>Comments and explanations:</b>
None

Reviewed by: Ben Tseng

Report Producer: Jenny Yang

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth 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(2Mbps)	2.0	1TX
2.4-2.4835GHz	BT-LE(125kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500kbps)	1.0	1TX

Note:

- ♦ Bluetooth LE uses a GFSK (125kbps/500kbps/1Mbps/2Mbps) modulation.
- ♦ BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	ARISTOTLE	RFA-25-C53-B32C255V2	Dipole	Reverse SMA
2	ARISTOTLE	RFA-25-C53-B32C255V2	Dipole	Reverse SMA
3	ARISTOTLE	RFA-25-C53-B32C255V2	Dipole	Reverse SMA

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	1	3.5	5	-
2	2	3.5	5	-
3	1	-	-	3.5

Note 1: The EUT has three antennas.

**For 2.4GHz function:**

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

**For BT function:**

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

Only Ant. 3 (port 1) can be used as transmitting/receiving.

**For 5GHz function:**

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.



1.1.3 EUT Information

Operational Condition	
EUT Power Type	From Test Fixture
EUT Function	<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)	0.615	2.11	384.375u	3k
BT-LE(2Mbps)	0.59	2.29	1.073m	1k
BT-LE(125kbps)	0.97	0.13	17.048m	100
BT-LE(500kbps)	0.91	0.41	4.552m	300

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

## 1.2 Testing Applied Standards

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

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

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

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

## 1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
<input checked="" type="checkbox"/>	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)		
		TEL: 886-3-327-3456	FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	21.2~22.3°C / 58~63%	28/Apr/2021
RF Conducted	TH06-HY	Johnny Yu	20.1~26.9°C / 50~60%	27/Apr/2021~21/Jun/2021
Radiated	03CH03-HY	Billy Wang	20.1~26.9°C / 50~60%	27/Apr/2021~18/Jun/2021
<input type="checkbox"/>	Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)		
		TEL: 886-3-318-0787	FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

## 1.4 Measurement Uncertainty

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

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



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode


Test Software Version	Dos
<b>Mode</b>	<b>Power Setting</b>
BT-LE(1Mbps)	-
2402MHz	0
2440MHz	0
2480MHz	0
BT-LE(2Mbps)	-
2402MHz	0
2440MHz	0
2480MHz	-4
BT-LE(125kbps)	-
2402MHz	-2
2440MHz	-2
2480MHz	-2
BT-LE(500kbps)	-
2402MHz	0
2440MHz	0
2480MHz	0



## 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 Test Voltage: 120Vac / 60Hz
<b>Operating Mode</b>	CTX
1	Test Fixture mode

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 Worst Case Mode for Following Conformance Tests	
<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>	CTX
1	Test Fixture mode
<b>Operating Mode &gt; 1GHz</b>	CTX
<b>Orthogonal Planes of EUT</b>	<b>Z Plane</b>
	

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Simultaneous Transmission Analysis
<b>Operating Mode</b>	CTX
1	Bluetooth+WLAN 2.4GHz
2	Bluetooth+WLAN 5GHz
Refer to Sporton Test Report No.: FA133036 for Co-location RF Exposure Evaluation.	

## 2.3 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	DC Power Supply	G.W.	GPS-3030DD	-	-
2	DC Power cable(+)	MiSUMi	WTN1227-RED	-	-
3	DC Power cable(-)	MiSUMi	WTN1227-BLACK	-	-
4	DC Power cable(+)	-	-	-	Note 1
5	DC Power cable(-)	-	-	-	Note 1
6	Test Fixture	-	-	-	Note 1

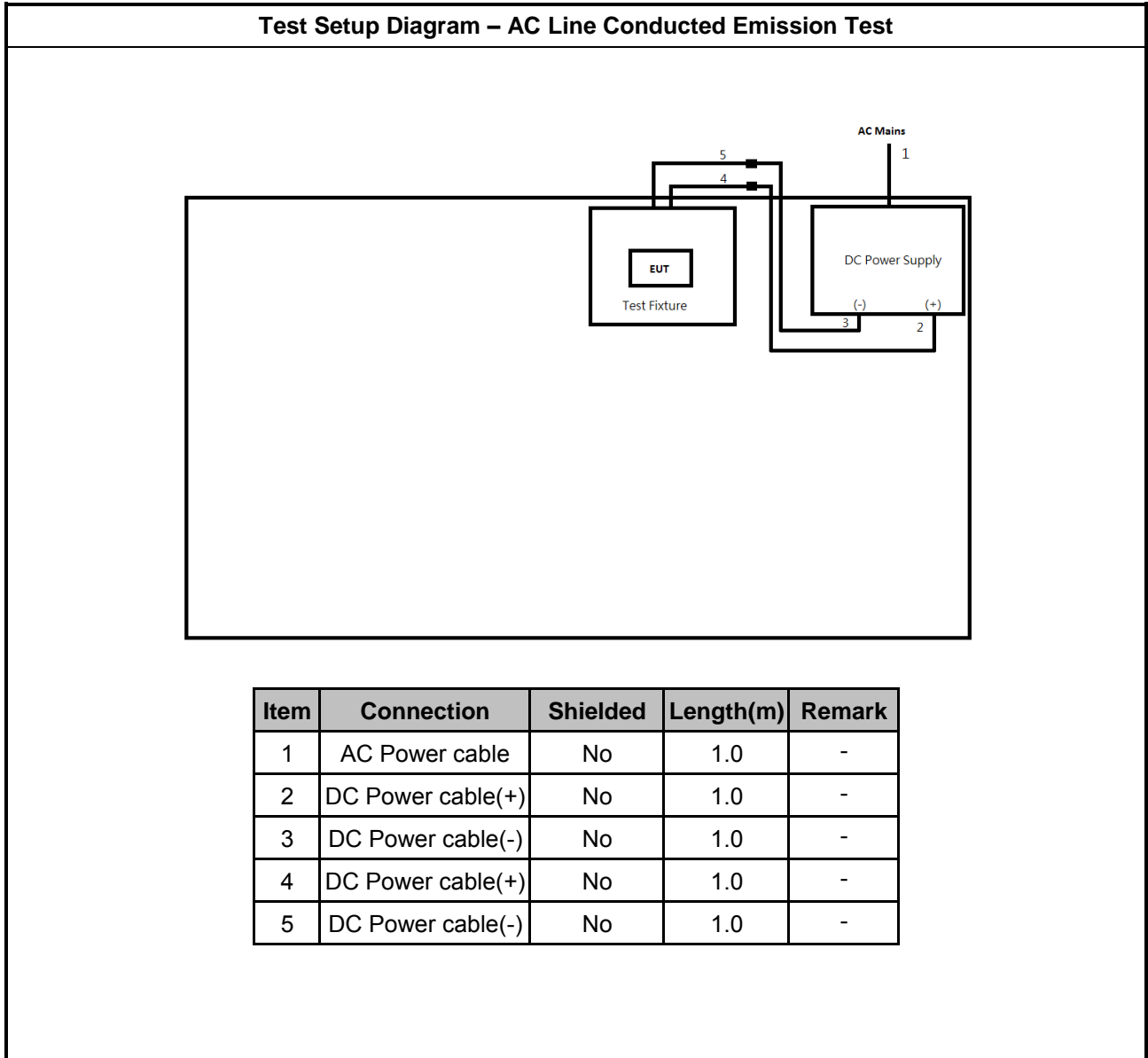
Note 1: Provided by Customer.

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	DC Power Supply	GW	GPS-3030DD	-	-

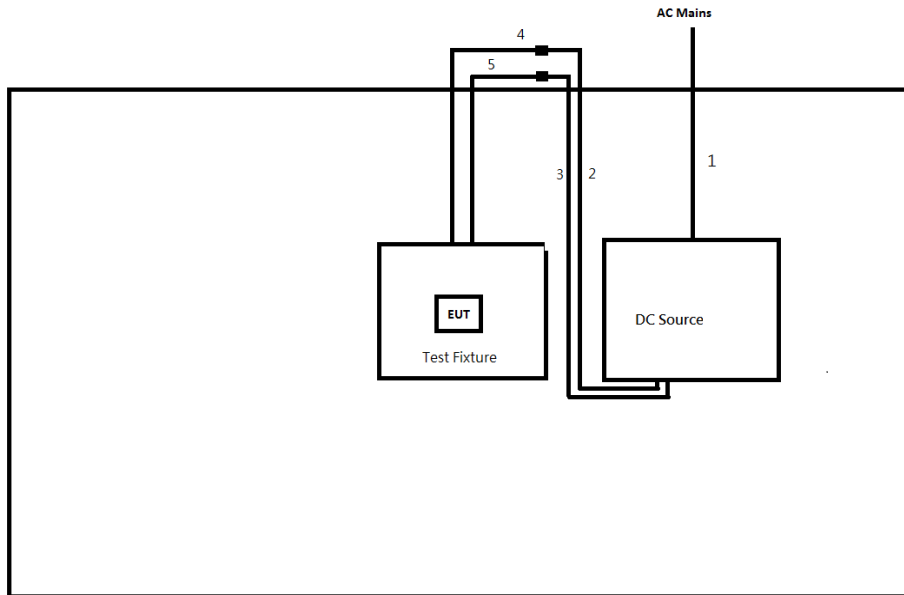
Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	DC Power Supply	G.W.	GPS-3030DD	-	-
2	DC Power cable(+)	MiSUMi	WTN1227-RED	-	-
3	DC Power cable(-)	MiSUMi	WTN1227-BLACK	-	-
4	DC Power cable(+)	-	-	-	Note 1
5	DC Power cable(-)	-	-	-	Note 1
6	Test Fixture	-	-	-	Note 1

Note 1: Provided by Customer.

## 2.4 Test Setup Diagram



**Test Setup Diagram - Radiated Test**



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.0	-
2	DC Power cable(+)	No	1.0	-
3	DC Power cable(-)	No	1.0	-
4	DC Power cable(+)	No	1.0	-
5	DC Power cable(-)	No	1.0	-

### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

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

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

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

##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

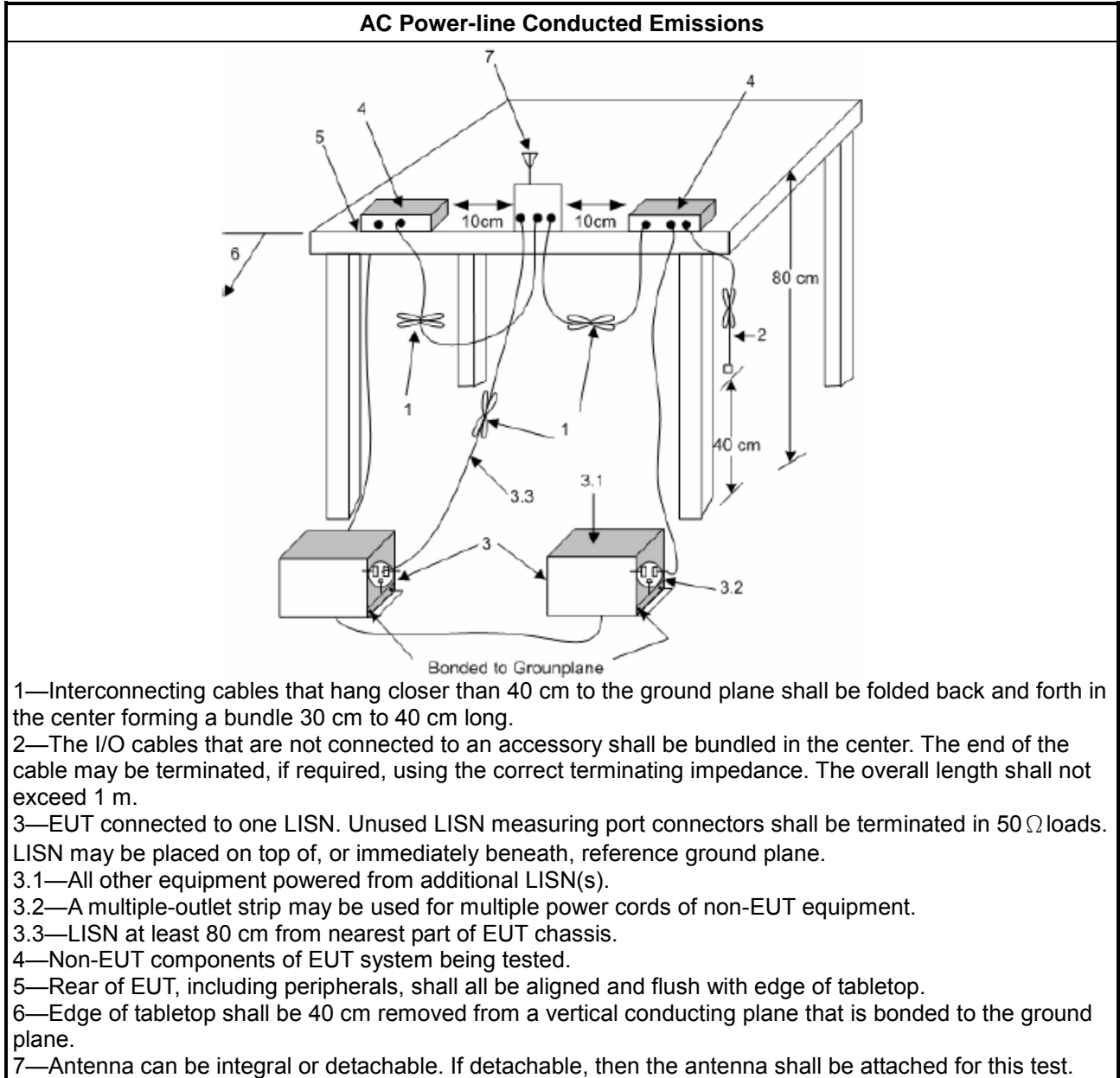
Test Method
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.</li> </ul>

##### 3.1.4 Measurement Results Calculation

The measured Level is calculated using:

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

### 3.1.5 Test Setup



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

Refer as Appendix A

### 3.2 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>

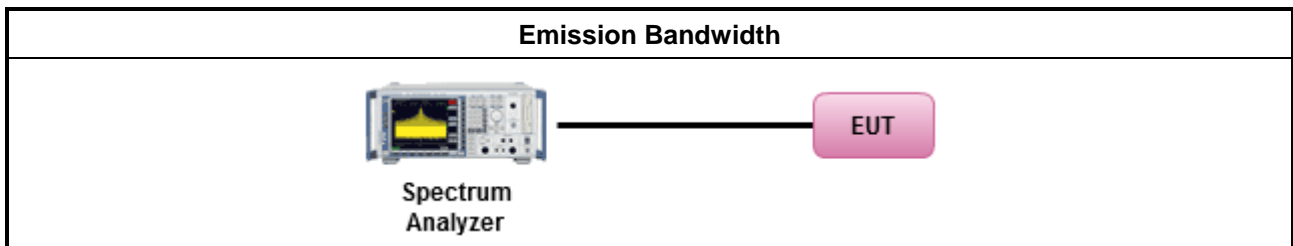
#### 3.2.2 Measuring Instruments

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 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>
<b>e.i.r.p. Power Limit:</b>	
	<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, $G_{TX}$ = the maximum transmitting antenna directional gain in dBi.	

#### 3.3.2 Measuring Instruments

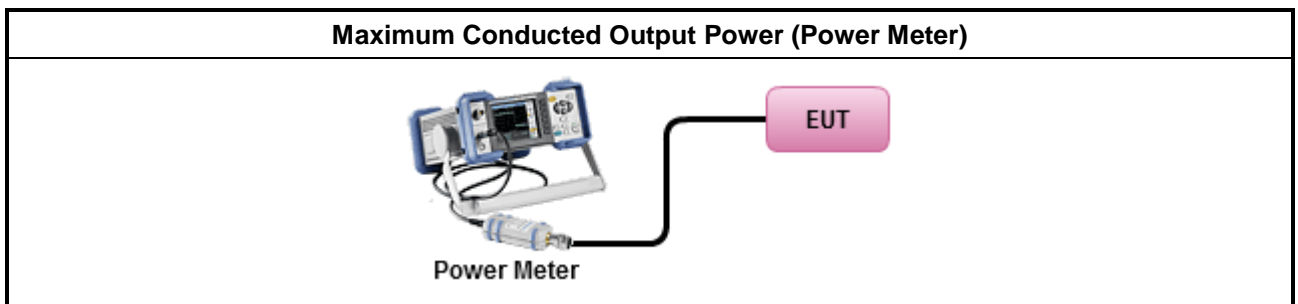
Refer a test equipment and calibration data table in this test report.



### 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: 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:  <math>P_{total} = P_1 + P_2 + \dots + P_n</math>                      (calculated in linear unit [mW] and transfer to log unit [dBm])  <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
<ul style="list-style-type: none"> <li>▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz</li> </ul>

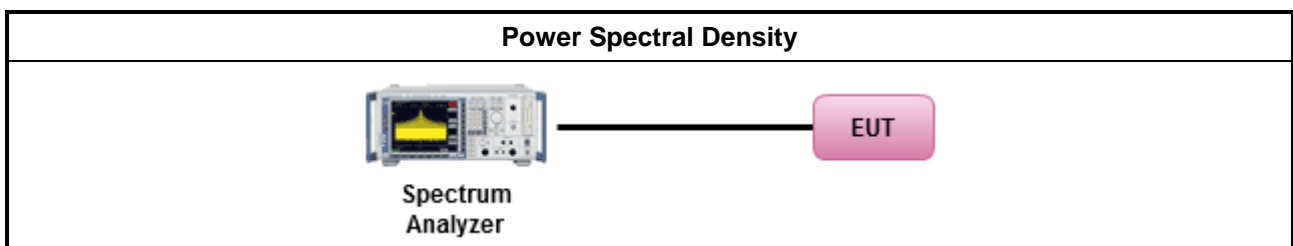
#### 3.4.2 Measuring Instruments

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 KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
	<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:</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 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.</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 (dB)
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 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 level.

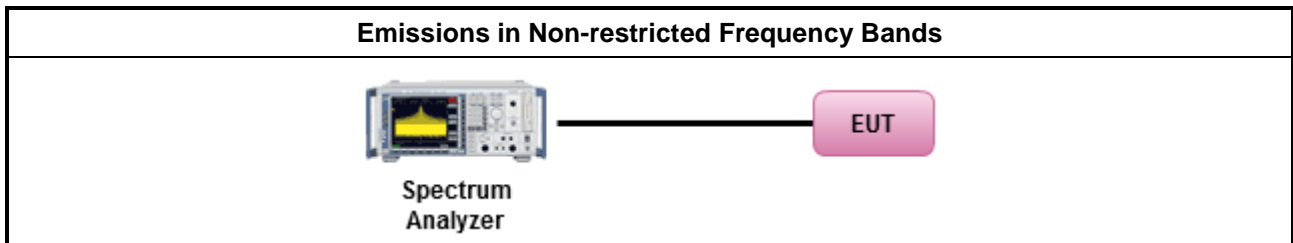
#### 3.5.2 Measuring Instruments

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 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

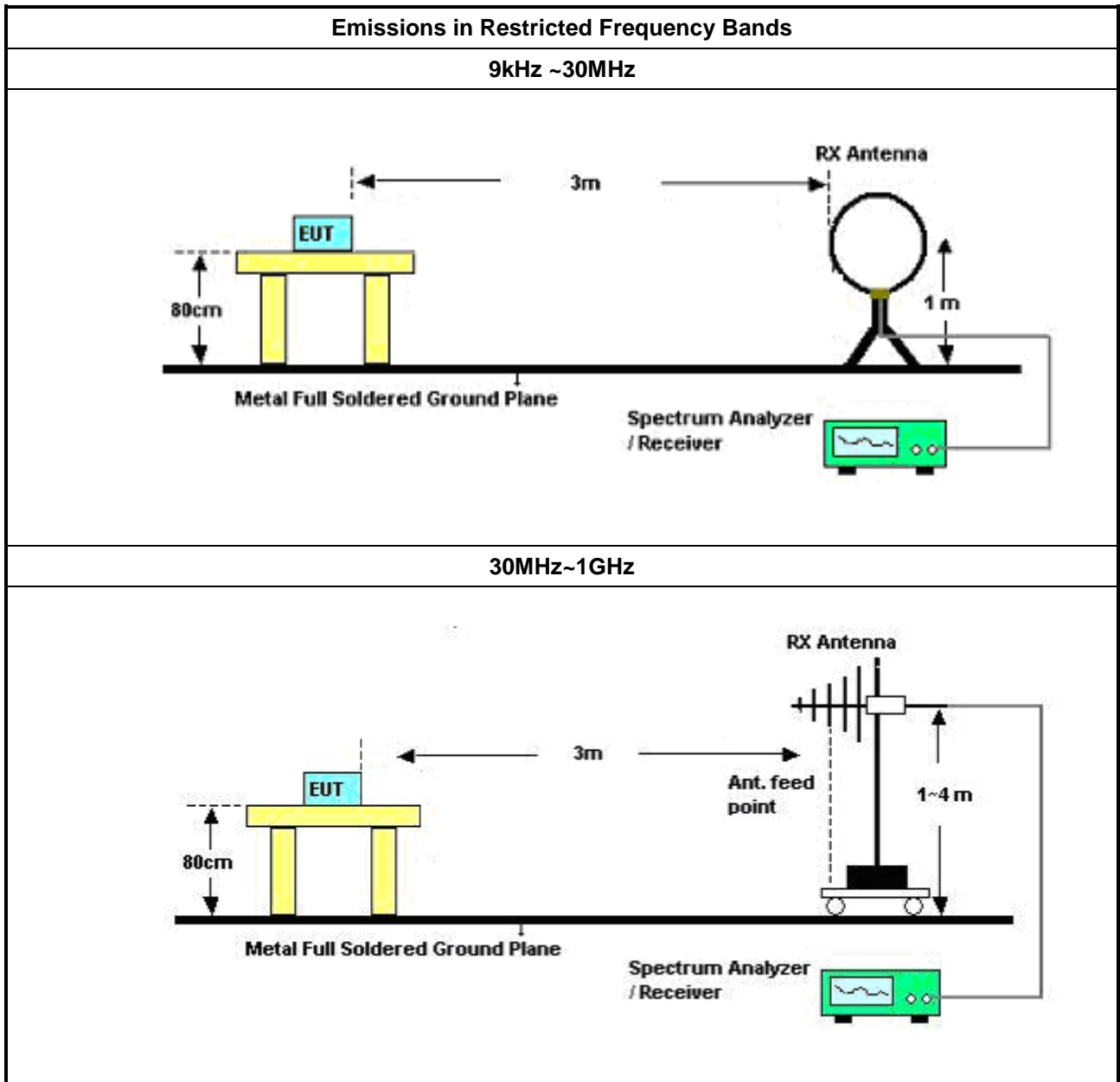
Test Method	
	<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency 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:               <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> </li> </ul>
	<ul style="list-style-type: none"> <li>▪ For the transmitter band-edge emissions shall be measured using following options below:               <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> <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> <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> </li> </ul>
	<ul style="list-style-type: none"> <li>▪ Use the following spectrum analyzer settings:               <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> <li>▪ Set RBW = 1 MHz, VBW= 3MHz for <math>f \geq 1</math> GHz for peak measurement. For average measurement, refer as 1.1.4.</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.               <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> <li>▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.</li> </ul> </li> </ul>

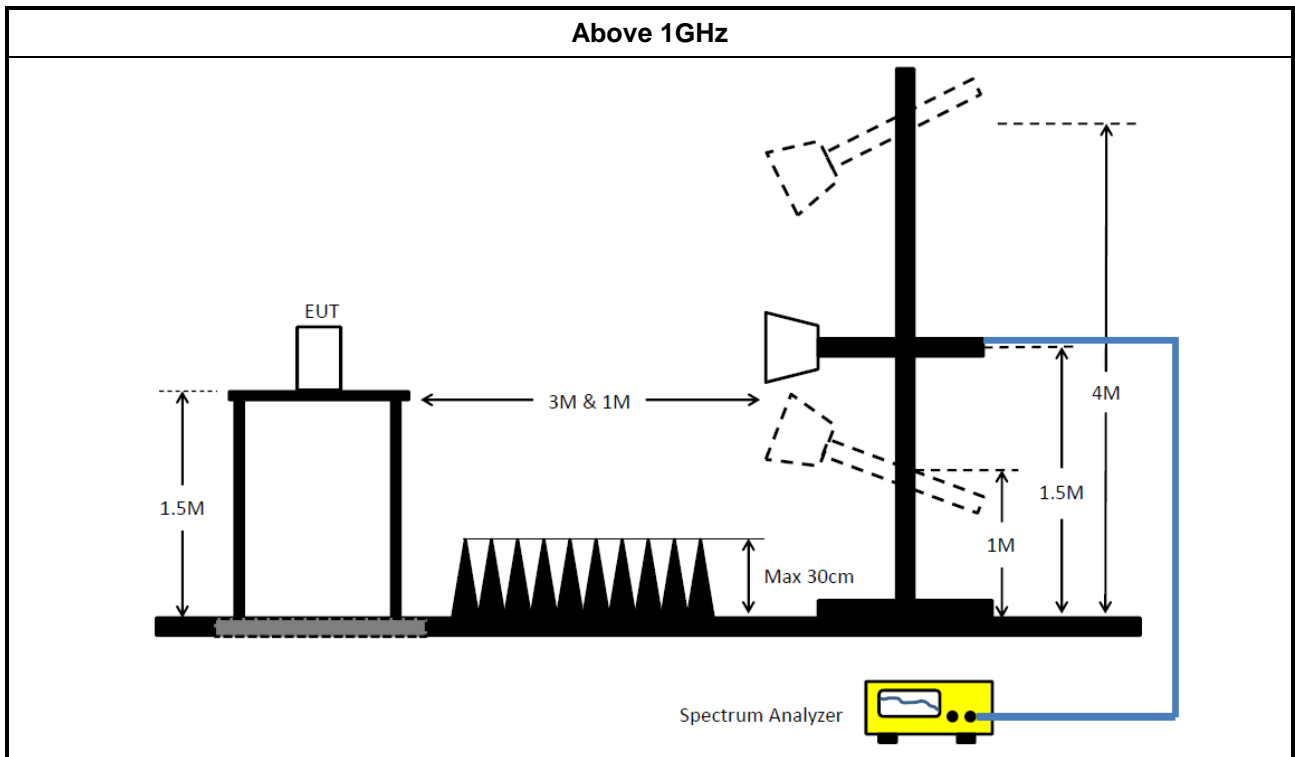
### 3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

### 3.6.5 Test Setup





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

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

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

Refer as Appendix F

## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021

### Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	30/Mar/2021	29/Mar/2022
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	23/Feb/2021	22/Feb/2022
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	23/Feb/2021	22/Feb/2022



**Instrument for Radiated Test**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	06/Aug/2020	05/Aug/2021
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	04/Aug/2020	03/Aug/2021
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	19/Aug/2020	18/Aug/2021
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	13/Apr/2021	12/Apr/2022
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz~26.5GHz	06/Oct/2020	05/Oct/2021
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	24/Mar/2021	23/Mar/2022
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	19/Jun/2020	18/Jun/2021
RF Cable-R03m	Jye Bao	RG142	MY37335/4+CB021-1+CB021-2	30MHz~1GHz	17/Mar/2021	16/Mar/2022
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	SN MY38596/4+SN 804300/4	1GHz~40GHz	04/Aug/2020	03/Aug/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	09/Mar/2021	08/Mar/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021



**Summary**

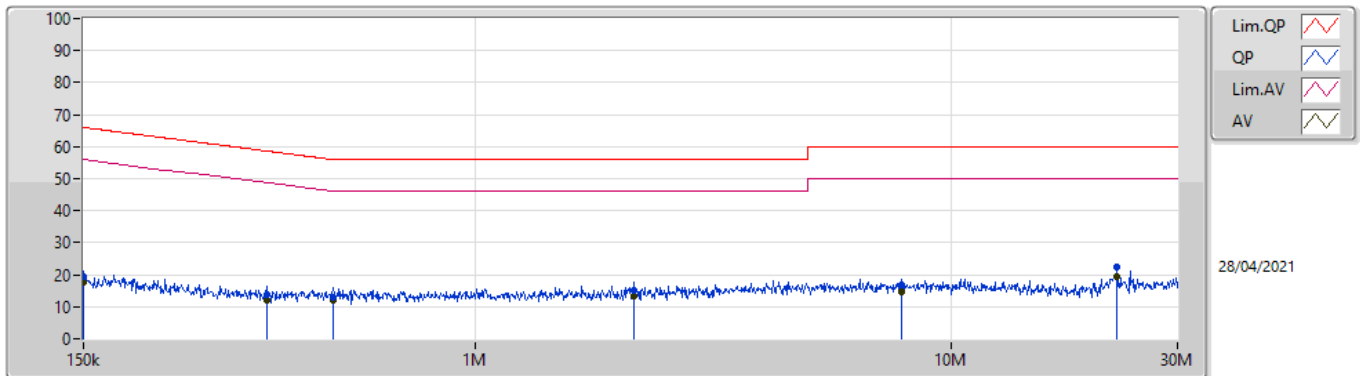
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	22.041M	21.05	50.00	-28.95	Neutral



Result

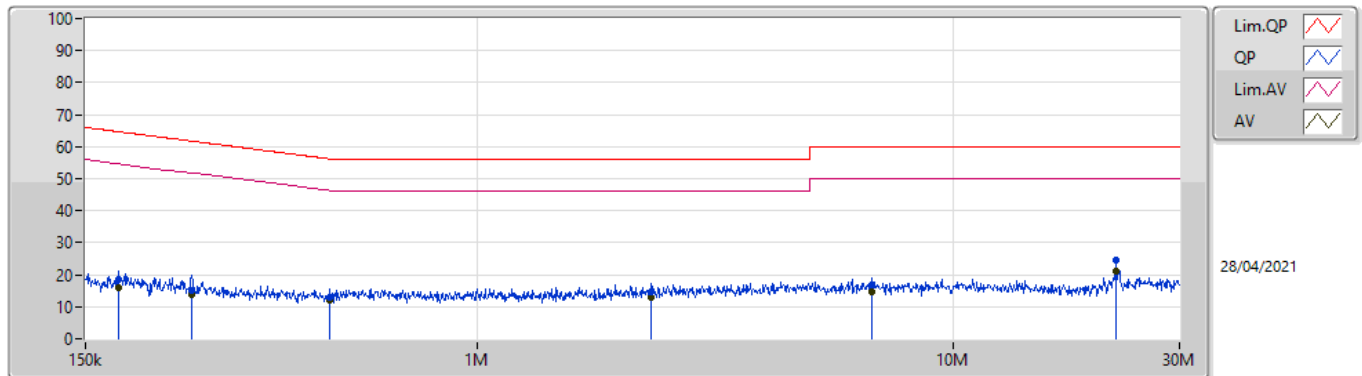
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	150k	19.21	66.00	-46.79	Line	-
Mode 1	Pass	AV	150k	17.58	56.00	-38.42	Line	-
Mode 1	Pass	QP	363.895k	13.58	58.64	-45.06	Line	-
Mode 1	Pass	AV	363.895k	12.26	48.64	-36.38	Line	-
Mode 1	Pass	QP	502.813k	13.11	56.00	-42.89	Line	-
Mode 1	Pass	AV	502.813k	11.98	46.00	-34.02	Line	-
Mode 1	Pass	QP	2.15M	15.06	56.00	-40.94	Line	-
Mode 1	Pass	AV	2.15M	13.22	46.00	-32.78	Line	-
Mode 1	Pass	QP	7.901M	16.84	60.00	-43.16	Line	-
Mode 1	Pass	AV	7.901M	14.57	50.00	-35.43	Line	-
Mode 1	Pass	QP	22.396M	22.57	60.00	-37.43	Line	-
Mode 1	Pass	AV	22.396M	19.27	50.00	-30.73	Line	-
Mode 1	Pass	QP	176.674k	18.45	64.64	-46.19	Neutral	-
Mode 1	Pass	AV	176.674k	16.16	54.64	-38.48	Neutral	-
Mode 1	Pass	QP	251.038k	15.26	61.72	-46.46	Neutral	-
Mode 1	Pass	AV	251.038k	13.70	51.72	-38.02	Neutral	-
Mode 1	Pass	QP	490.912k	13.05	56.15	-43.10	Neutral	-
Mode 1	Pass	AV	490.912k	11.97	46.15	-34.18	Neutral	-
Mode 1	Pass	QP	2.32M	14.81	56.00	-41.19	Neutral	-
Mode 1	Pass	AV	2.32M	13.12	46.00	-32.88	Neutral	-
Mode 1	Pass	QP	6.762M	16.79	60.00	-43.21	Neutral	-
Mode 1	Pass	AV	6.762M	14.63	50.00	-35.37	Neutral	-
Mode 1	Pass	QP	22.041M	24.41	60.00	-35.59	Neutral	-
Mode 1	Pass	AV	22.041M	21.05	50.00	-28.95	Neutral	-

### Conducted Emissions at Powerline\_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	150k	19.21	66.00	-46.79	19.63	Line	-	-0.42	9.69	0.04	9.90
AV	150k	17.58	56.00	-38.42	19.63	Line	-	-2.05	9.69	0.04	9.90
QP	363.895k	13.58	58.64	-45.06	19.63	Line	-	-6.05	9.67	0.06	9.90
AV	363.895k	12.26	48.64	-36.38	19.63	Line	-	-7.37	9.67	0.06	9.90
QP	502.813k	13.11	56.00	-42.89	19.61	Line	-	-6.50	9.67	0.06	9.88
AV	502.813k	11.98	46.00	-34.02	19.61	Line	-	-7.63	9.67	0.06	9.88
QP	2.15M	15.06	56.00	-40.94	19.59	Line	-	-4.53	9.68	0.10	9.81
AV	2.15M	13.22	46.00	-32.78	19.59	Line	-	-6.37	9.68	0.10	9.81
QP	7.901M	16.84	60.00	-43.16	19.79	Line	-	-2.95	9.71	0.18	9.90
AV	7.901M	14.57	50.00	-35.43	19.79	Line	-	-5.22	9.71	0.18	9.90
QP	22.396M	22.57	60.00	-37.43	19.84	Line	-	2.73	9.63	0.31	9.90
AV	22.396M	19.27	50.00	-30.73	19.84	Line	-	-0.57	9.63	0.31	9.90

Conducted Emissions at Powerline\_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	176.674k	18.45	64.64	-46.19	19.62	Neutral	-	-1.17	9.68	0.04	9.90
AV	176.674k	16.16	54.64	-38.48	19.62	Neutral	-	-3.46	9.68	0.04	9.90
QP	251.038k	15.26	61.72	-46.46	19.63	Neutral	-	-4.37	9.68	0.05	9.90
AV	251.038k	13.70	51.72	-38.02	19.63	Neutral	-	-5.93	9.68	0.05	9.90
QP	490.912k	13.05	56.15	-43.10	19.61	Neutral	-	-6.56	9.67	0.06	9.88
AV	490.912k	11.97	46.15	-34.18	19.61	Neutral	-	-7.64	9.67	0.06	9.88
QP	2.32M	14.81	56.00	-41.19	19.61	Neutral	-	-4.80	9.68	0.11	9.82
AV	2.32M	13.12	46.00	-32.88	19.61	Neutral	-	-6.49	9.68	0.11	9.82
QP	6.762M	16.79	60.00	-43.21	19.78	Neutral	-	-2.99	9.71	0.17	9.90
AV	6.762M	14.63	50.00	-35.37	19.78	Neutral	-	-5.15	9.71	0.17	9.90
QP	22.041M	24.41	60.00	-35.59	19.95	Neutral	-	4.46	9.74	0.31	9.90
AV	22.041M	21.05	50.00	-28.95	19.95	Neutral	-	1.10	9.74	0.31	9.90



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)	711.25k	1.037M	1M04F1D	683.75k	1.031M
BT-LE(2Mbps)	1.228M	2.054M	2M05F1D	1.22M	2.049M
BT-LE(125kbps)	697.5k	1.049M	1M05F1D	692.5k	1.047M
BT-LE(500kbps)	665k	1.027M	1M03F1D	657.5k	1.022M

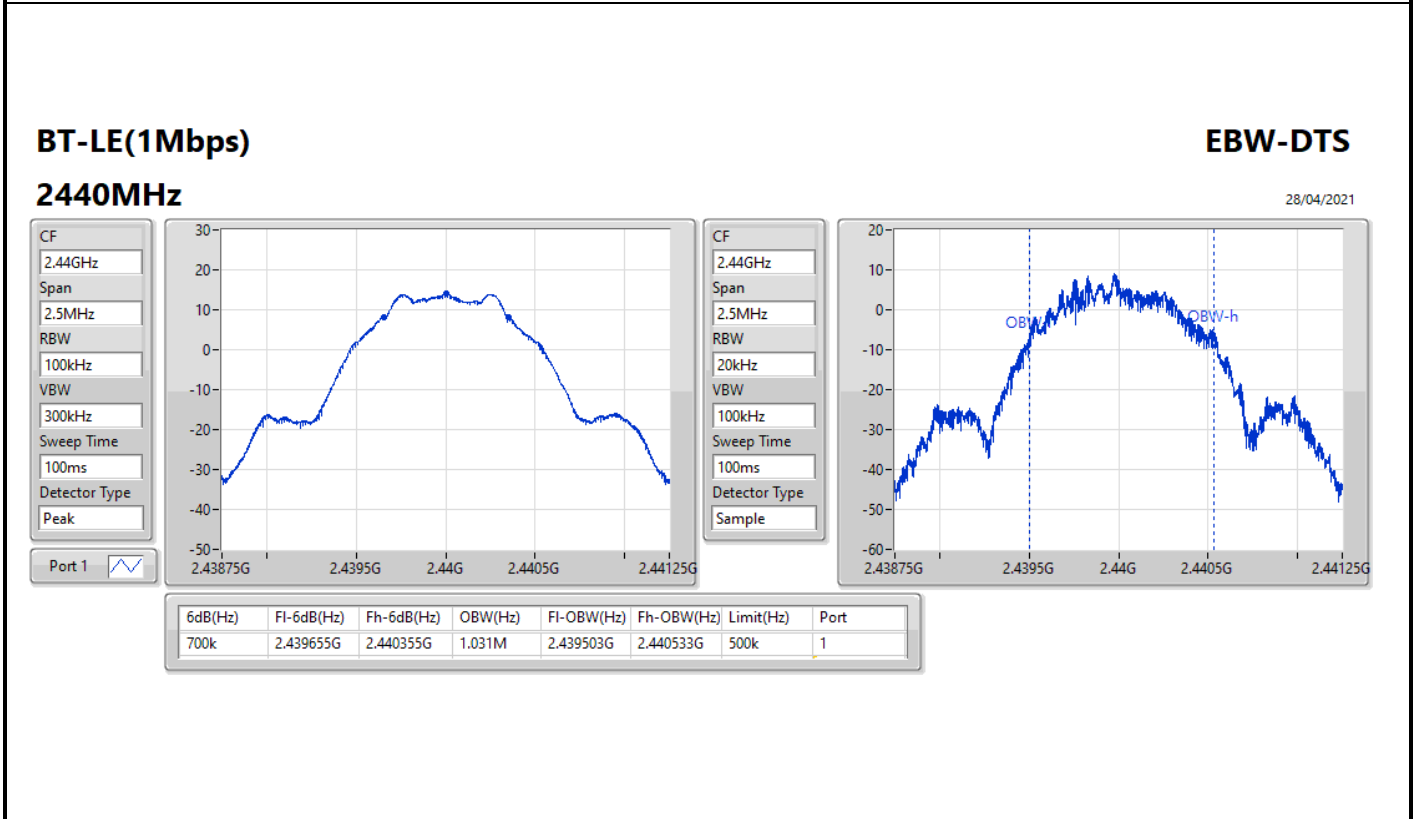
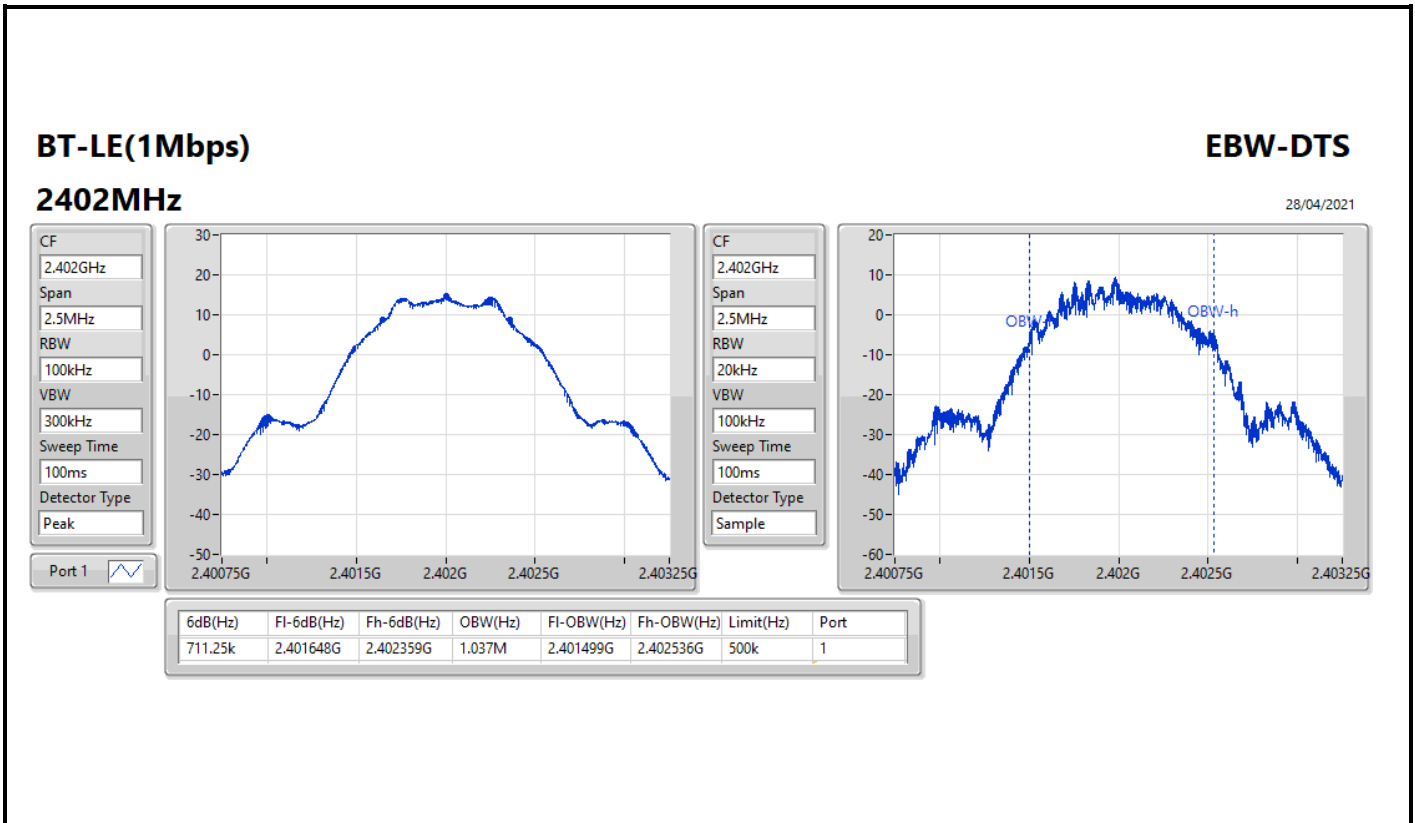
Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth



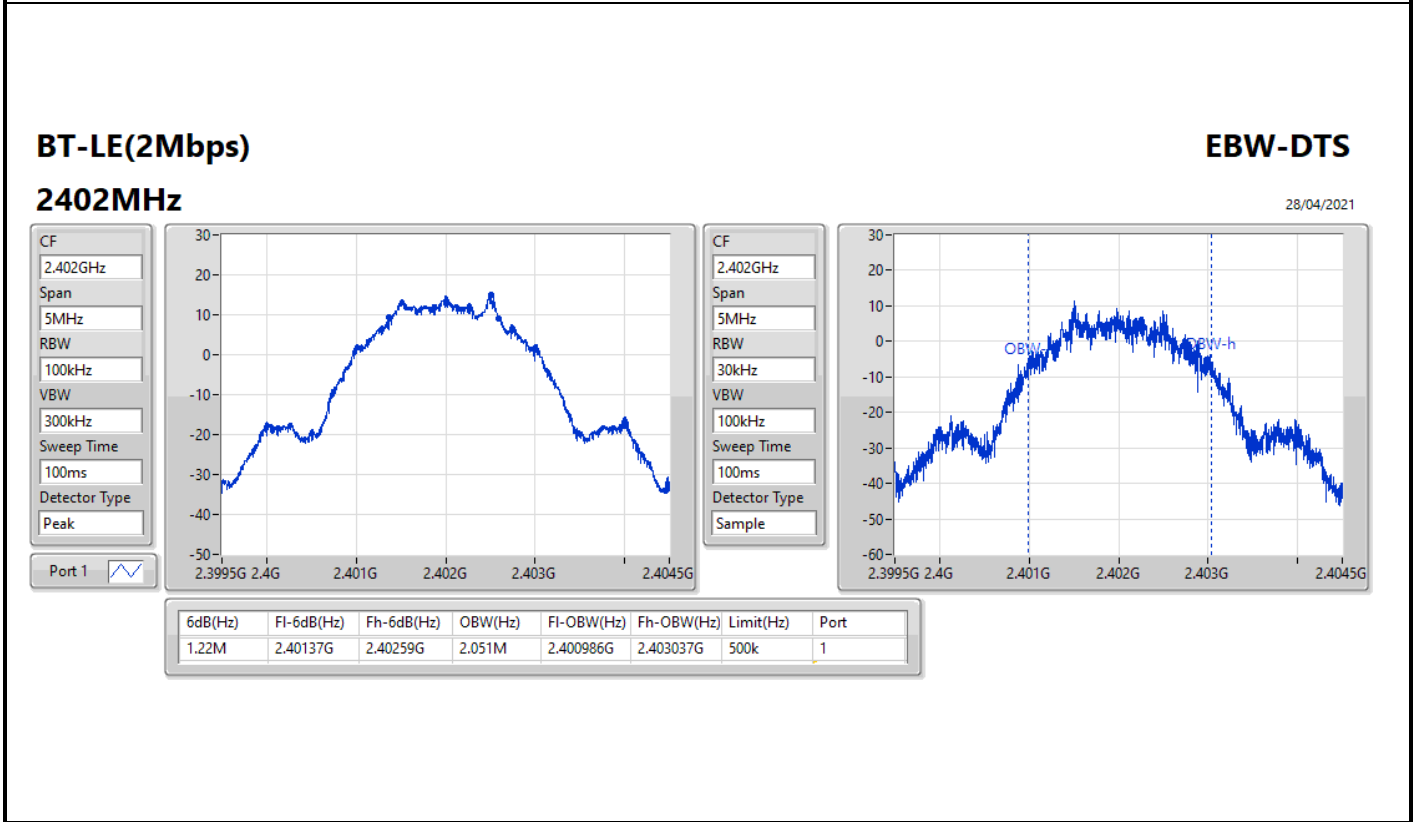
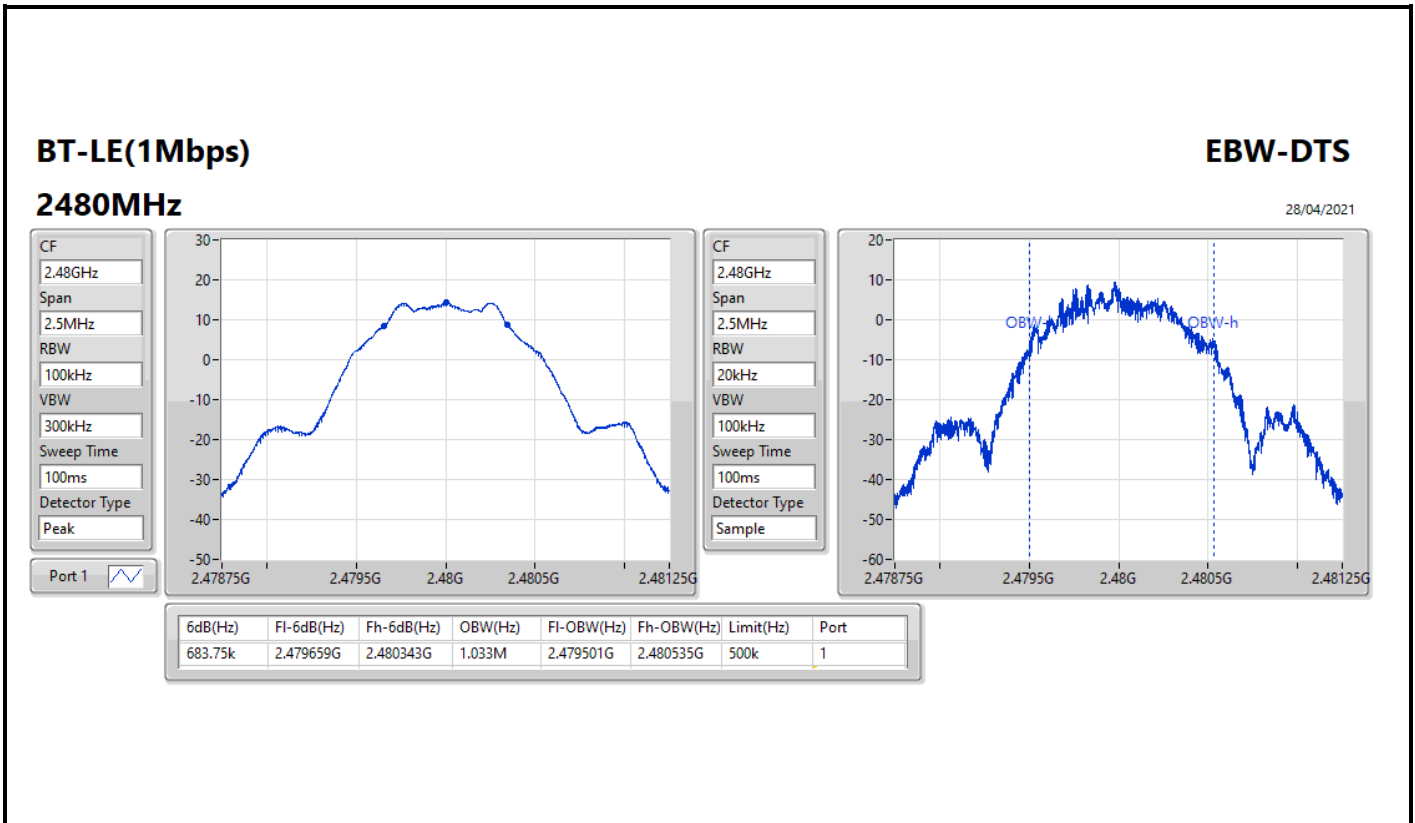
Result

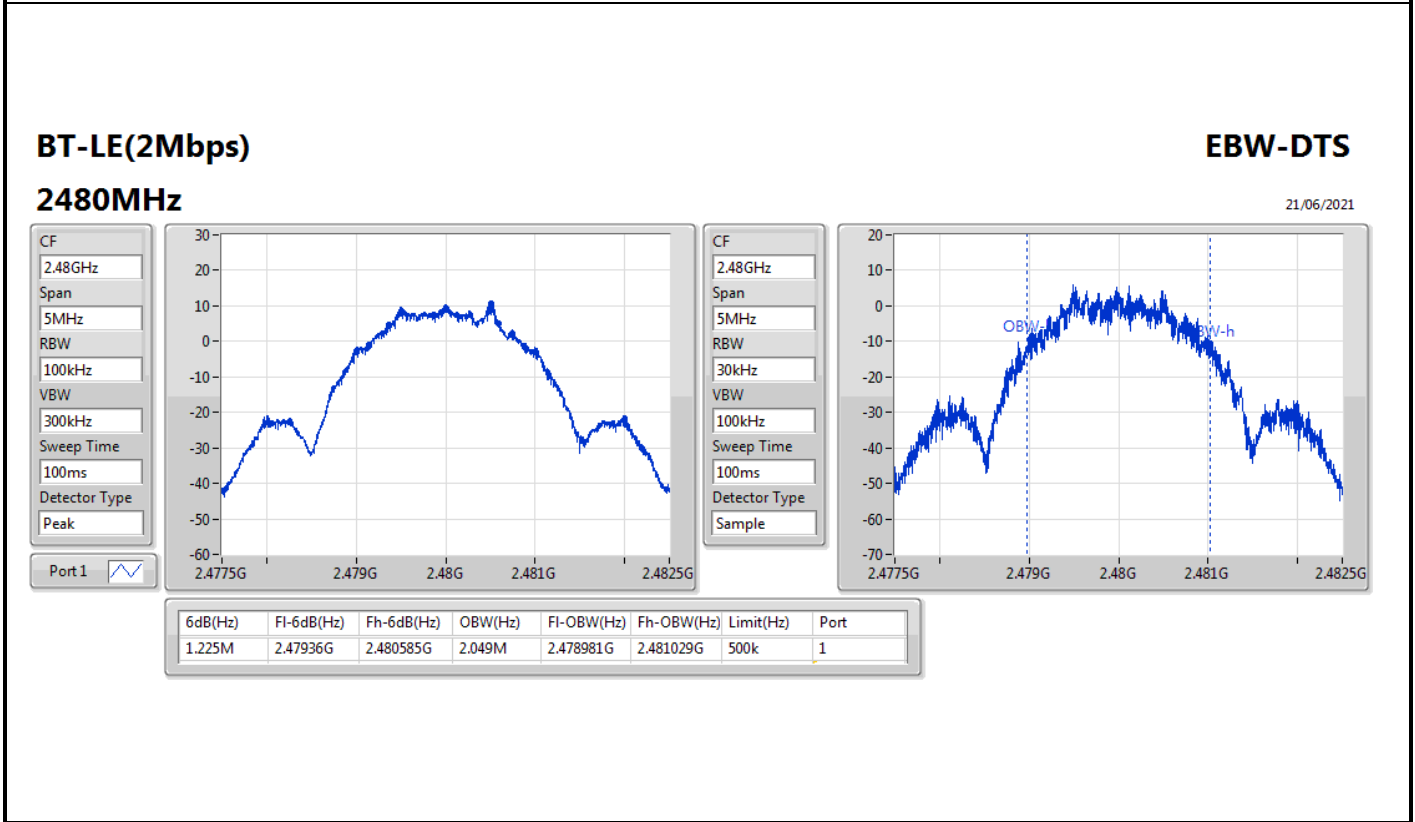
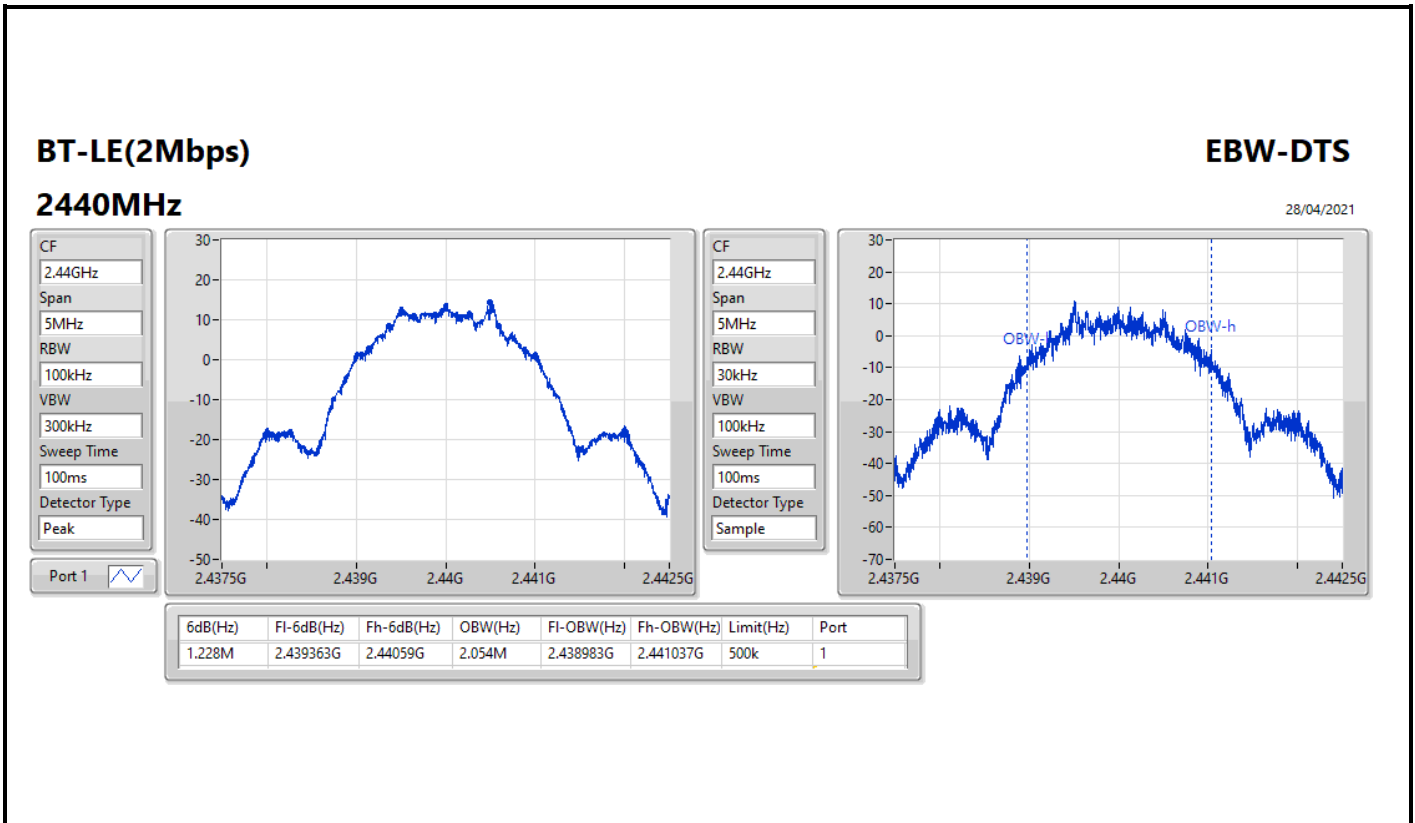
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	711.25k	1.037M
2440MHz	Pass	500k	700k	1.031M
2480MHz	Pass	500k	683.75k	1.033M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.22M	2.051M
2440MHz	Pass	500k	1.228M	2.054M
2480MHz	Pass	500k	1.225M	2.049M
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	500k	692.5k	1.049M
2440MHz	Pass	500k	697.5k	1.047M
2480MHz	Pass	500k	695k	1.047M
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	500k	665k	1.027M
2440MHz	Pass	500k	660k	1.027M
2480MHz	Pass	500k	657.5k	1.022M

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









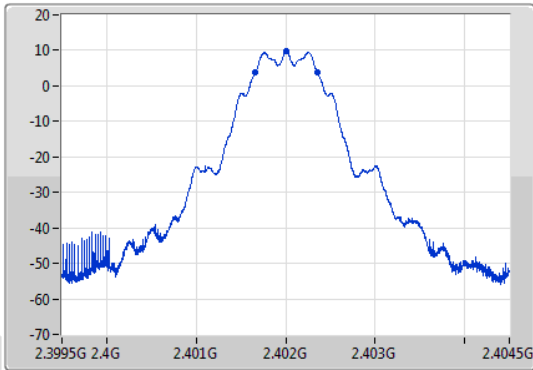
BT-LE(125kbps)

EBW-DTS

2402MHz

26/05/2021

CF  
2.402GHz  
Span  
5MHz  
RBW  
100kHz  
VBW  
300kHz  
Sweep Time  
100ms  
Detector Type  
Peak  
Port 1



CF  
2.402GHz  
Span  
5MHz  
RBW  
30kHz  
VBW  
100kHz  
Sweep Time  
100ms  
Detector Type  
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
692.5k	2.401663G	2.402355G	1.049M	2.40148G	2.40253G	500k	1

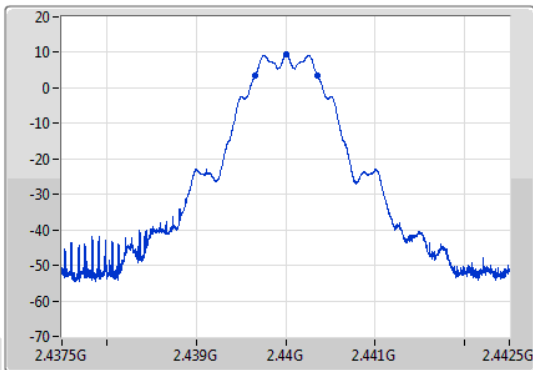
BT-LE(125kbps)

EBW-DTS

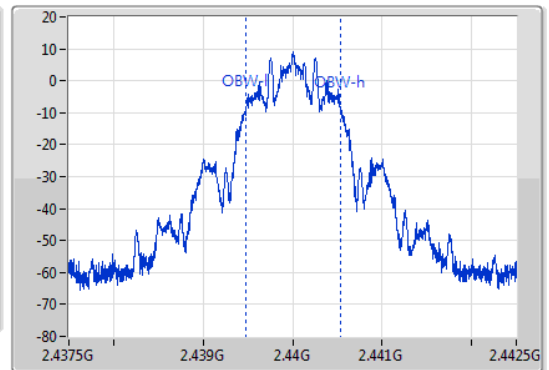
2440MHz

26/05/2021

CF  
2.44GHz  
Span  
5MHz  
RBW  
100kHz  
VBW  
300kHz  
Sweep Time  
100ms  
Detector Type  
Peak  
Port 1



CF  
2.44GHz  
Span  
5MHz  
RBW  
30kHz  
VBW  
100kHz  
Sweep Time  
100ms  
Detector Type  
Sample



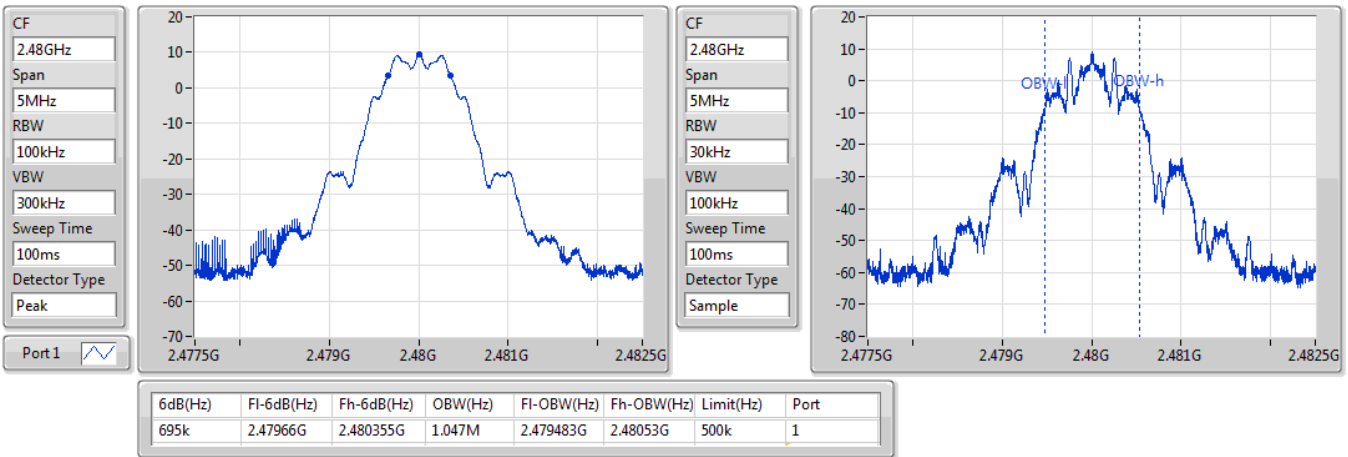
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
697.5k	2.43966G	2.440358G	1.047M	2.439483G	2.44053G	500k	1

**BT-LE(125kbps)**

**EBW-DTS**

**2480MHz**

26/05/2021

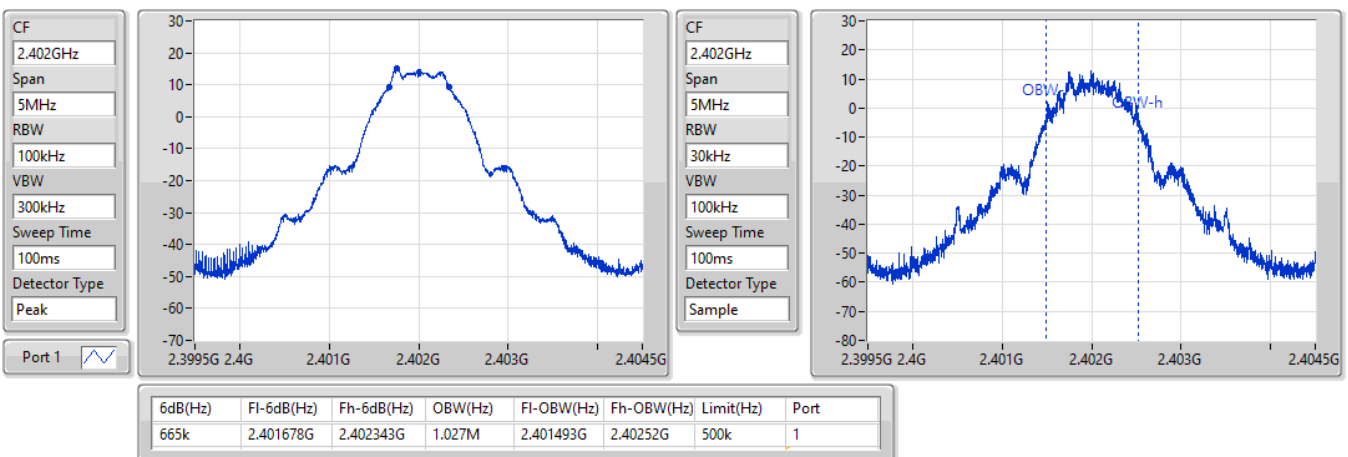


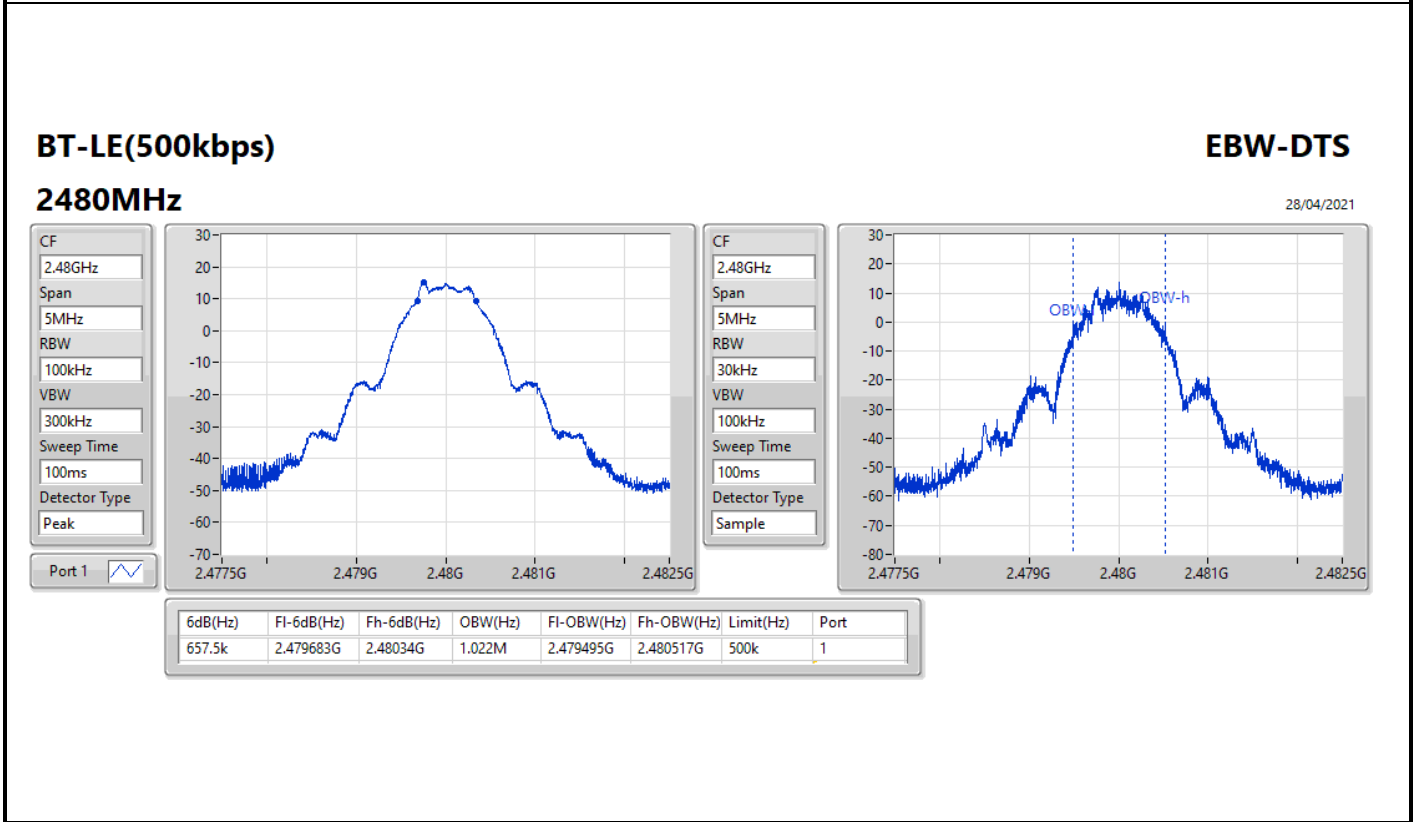
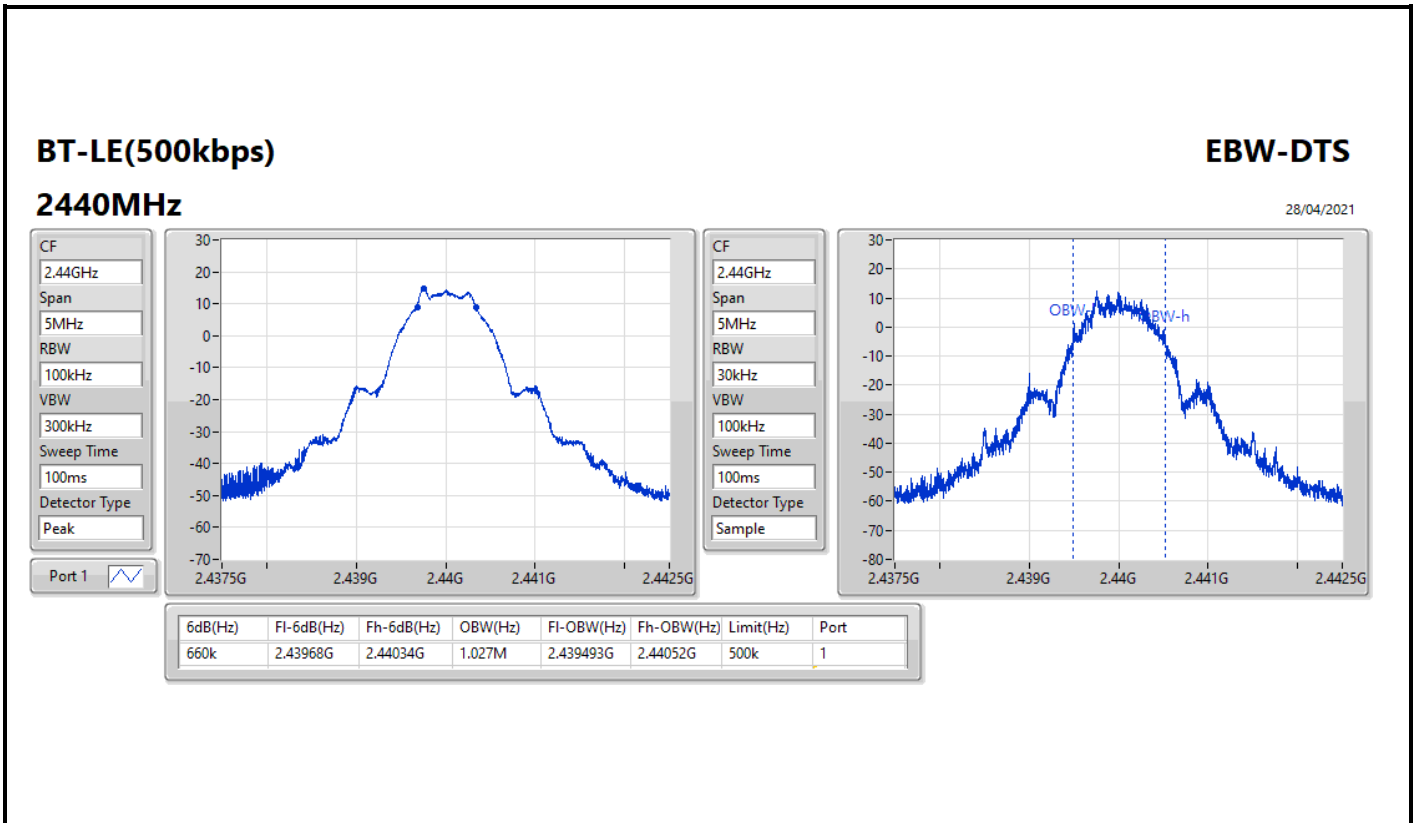
**BT-LE(500kbps)**

**EBW-DTS**

**2402MHz**

28/04/2021







**Summary**

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	14.89	0.03083
BT-LE(2Mbps)	15.19	0.03304
BT-LE(125kbps)	12.97	0.01982
BT-LE(500kbps)	15.18	0.03296



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.50	14.86	30.00
2440MHz	Pass	3.50	14.42	30.00
2480MHz	Pass	3.50	14.89	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.50	15.19	30.00
2440MHz	Pass	3.50	14.55	30.00
2480MHz	Pass	3.50	11.08	30.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	3.50	12.97	30.00
2440MHz	Pass	3.50	12.71	30.00
2480MHz	Pass	3.50	12.70	30.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	3.50	15.18	30.00
2440MHz	Pass	3.50	14.51	30.00
2480MHz	Pass	3.50	15.09	30.00

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



**Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-0.30
BT-LE(2Mbps)	1.76
BT-LE(125kbps)	6.92
BT-LE(500kbps)	5.90

RBW = 3kHz;





Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.50	-0.44	8.00
2440MHz	Pass	3.50	-0.30	8.00
2480MHz	Pass	3.50	-0.41	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.50	1.21	8.00
2440MHz	Pass	3.50	1.76	8.00
2480MHz	Pass	3.50	-2.20	8.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	3.50	6.92	8.00
2440MHz	Pass	3.50	6.65	8.00
2480MHz	Pass	3.50	6.61	8.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	3.50	5.90	8.00
2440MHz	Pass	3.50	5.02	8.00
2480MHz	Pass	3.50	3.65	8.00

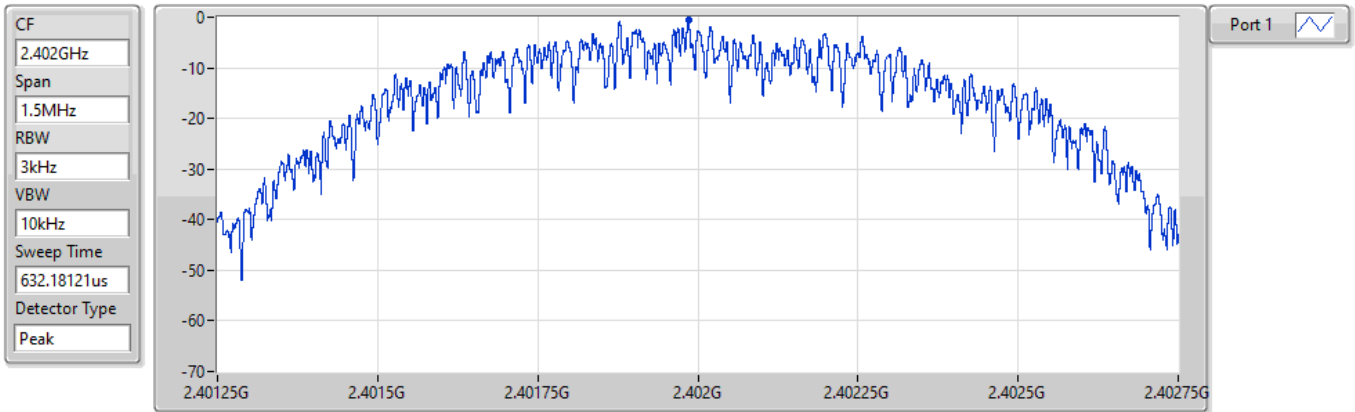
DG = Directional Gain; RBW = 3kHz;  
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

### BT-LE(1Mbps)

### PSD

#### 2402MHz

28/04/2021



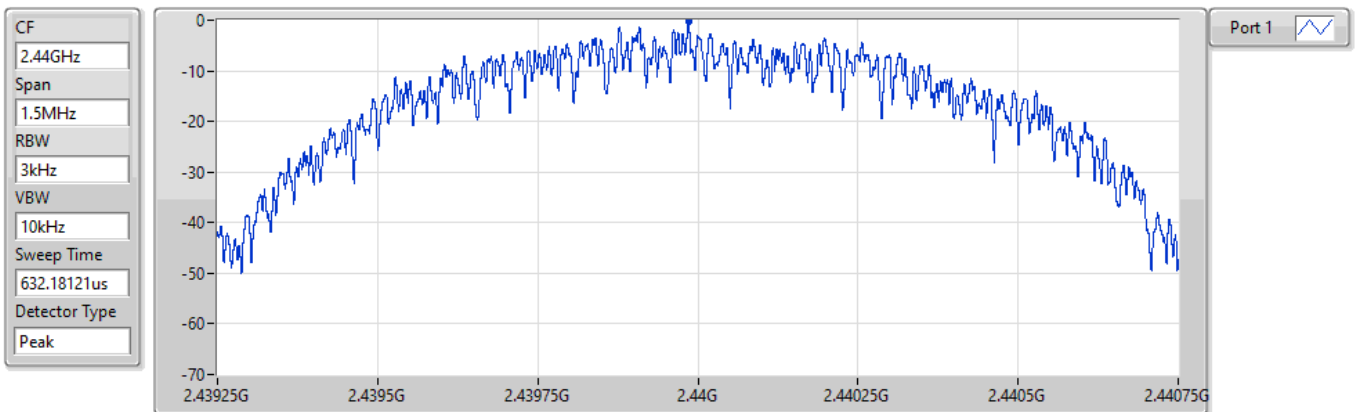
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.44	-0.44	-0.44

### BT-LE(1Mbps)

### PSD

#### 2440MHz

28/04/2021



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.30	-0.30	-0.30

### BT-LE(1Mbps)

### PSD

2480MHz

28/04/2021

CF  
2.48GHz

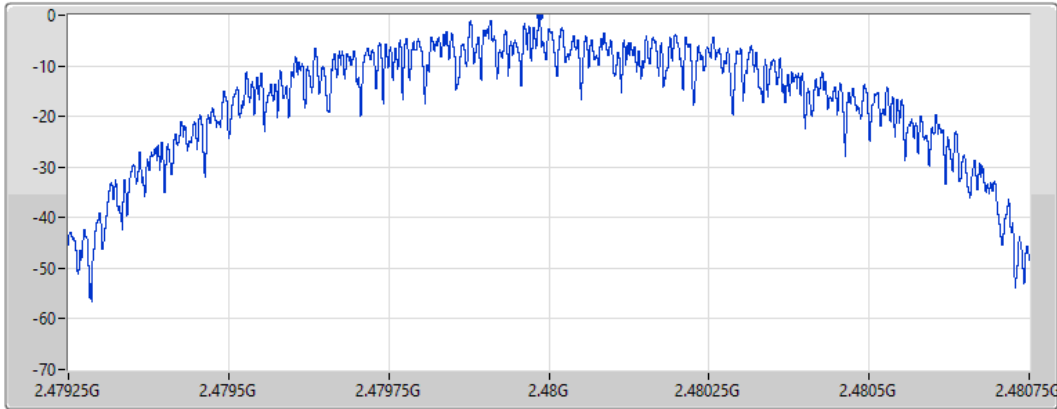
Span  
1.5MHz


RBW  
3kHz

VBW  
10kHz

Sweep Time  
632.18121us

Detector Type  
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.41	-0.41	-0.41

### BT-LE(2Mbps)

### PSD

2402MHz

28/04/2021

CF  
2.402GHz

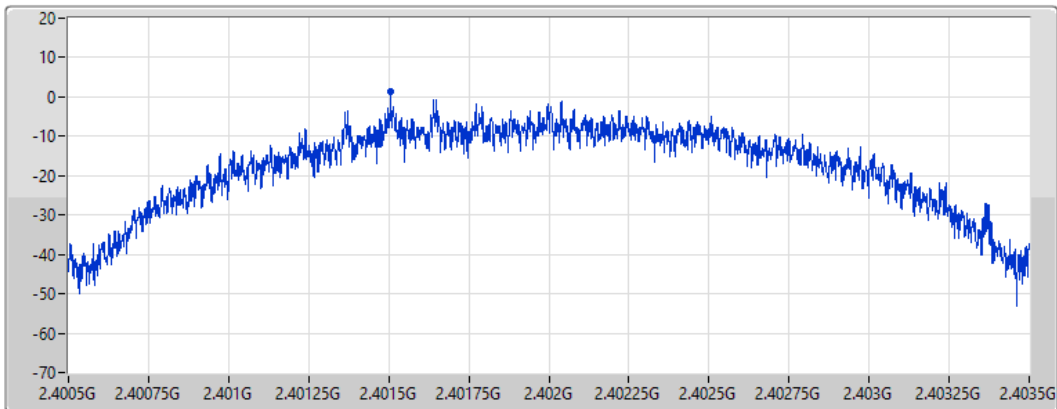
Span  
3MHz


RBW  
3kHz

VBW  
10kHz

Sweep Time  
632.01845us

Detector Type  
Peak



Port 1 

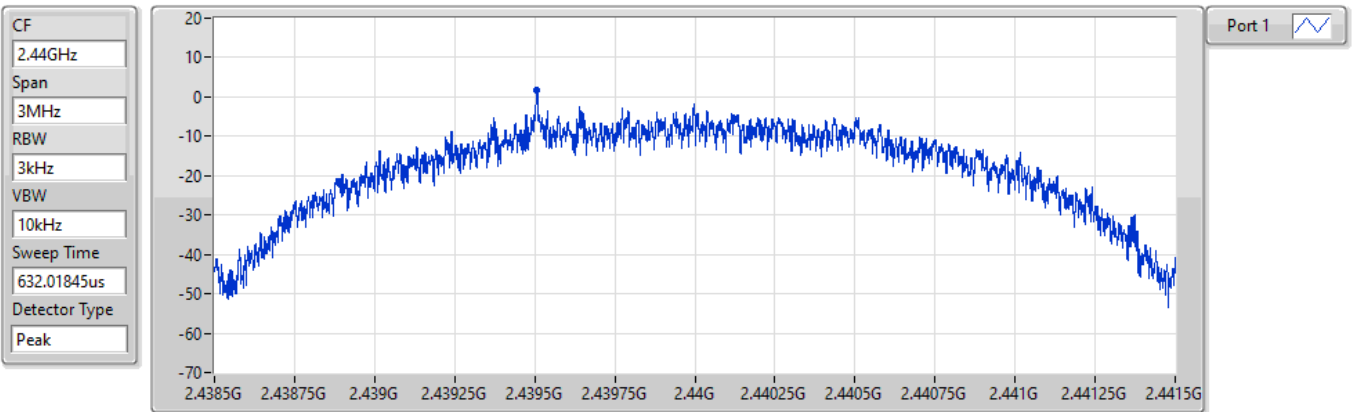
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.21	1.21	1.21

**BT-LE(2Mbps)**

**PSD**

**2440MHz**

28/04/2021



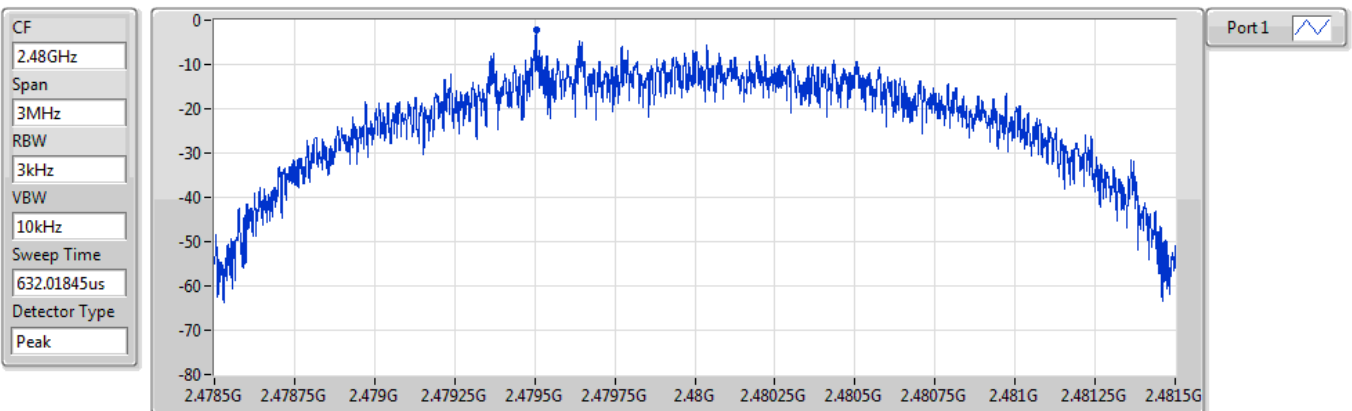
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.76	1.76	1.76

**BT-LE(2Mbps)**

**PSD**

**2480MHz**

21/06/2021



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.20	-2.20	-2.20

**BT-LE(125kbps)**

**PSD**

**2402MHz**

26/05/2021

CF  
2.402GHz

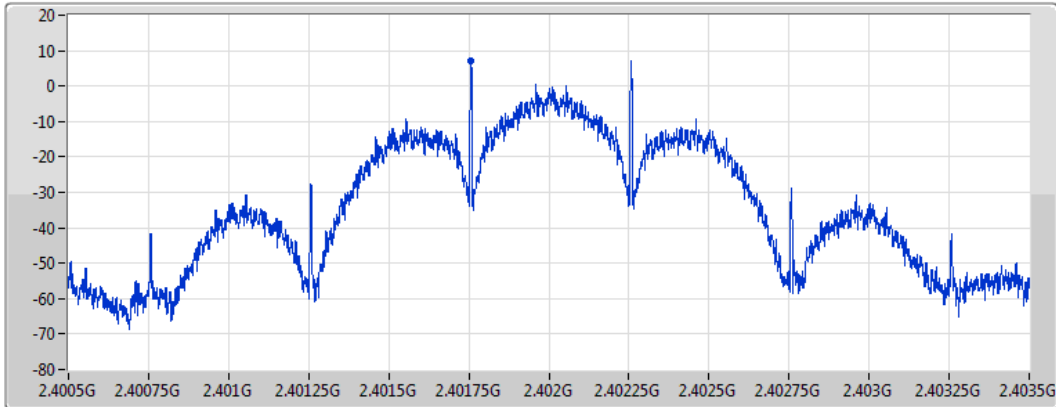
Span  
3MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
632.01845us

Detector Type  
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.92	6.92	6.92

**BT-LE(125kbps)**

**PSD**

**2440MHz**

26/05/2021

CF  
2.44GHz

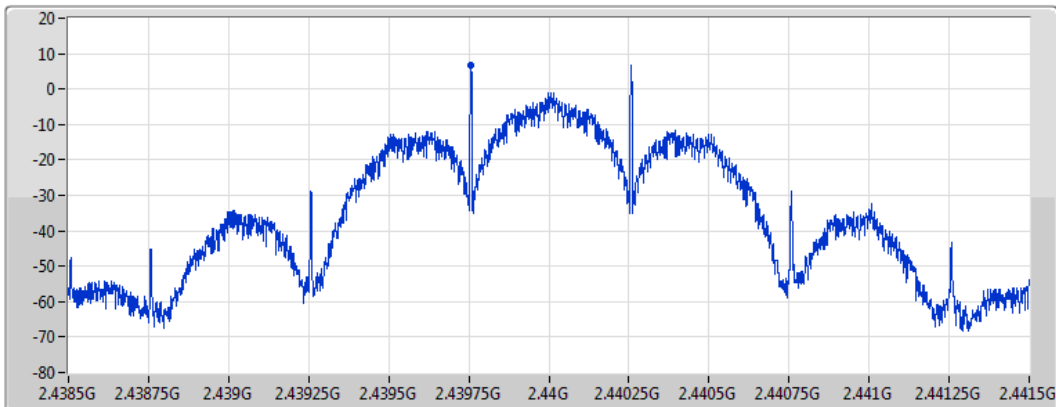
Span  
3MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
632.01845us

Detector Type  
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.65	6.65	6.65

### BT-LE(125kbps)

### PSD

2480MHz

26/05/2021

CF  
2.48GHz

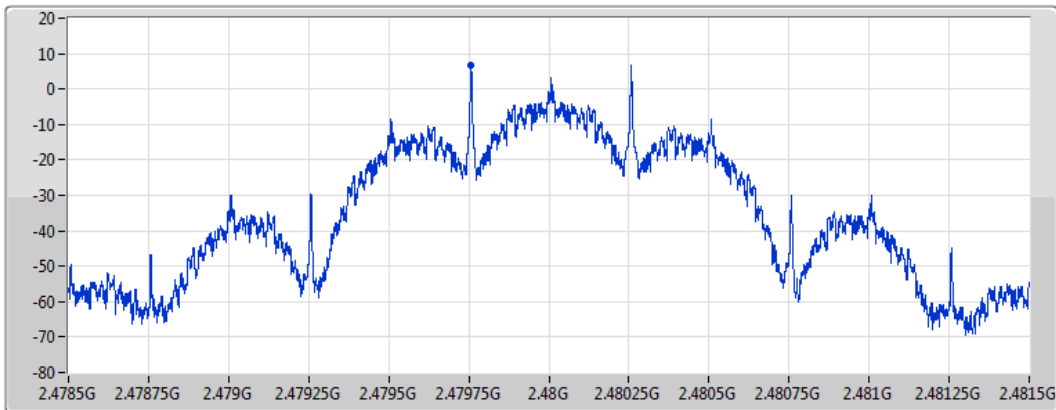
Span  
3MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
632.01845us

Detector Type  
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.61	6.61	6.61

### BT-LE(500kbps)

### PSD

2402MHz

28/04/2021

CF  
2.402GHz

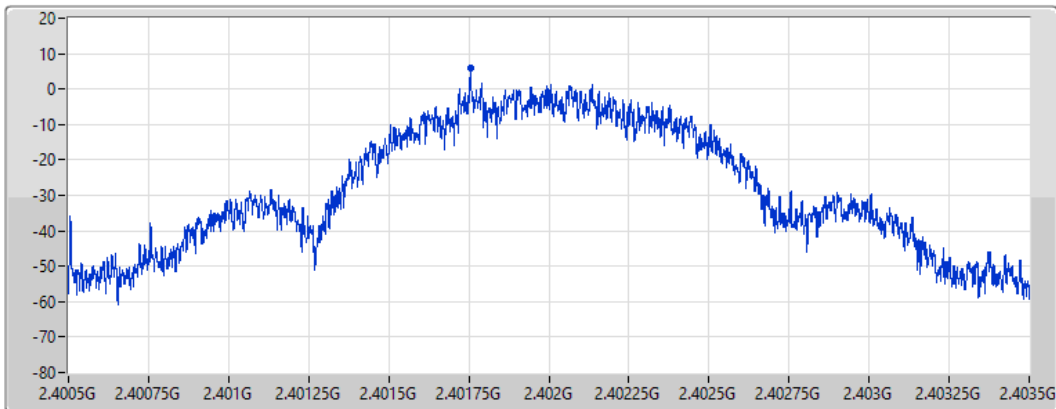
Span  
3MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
632.01845us

Detector Type  
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.90	5.90	5.90

**BT-LE(500kbps)**

**PSD**

**2440MHz**

28/04/2021

CF  
2.44GHz

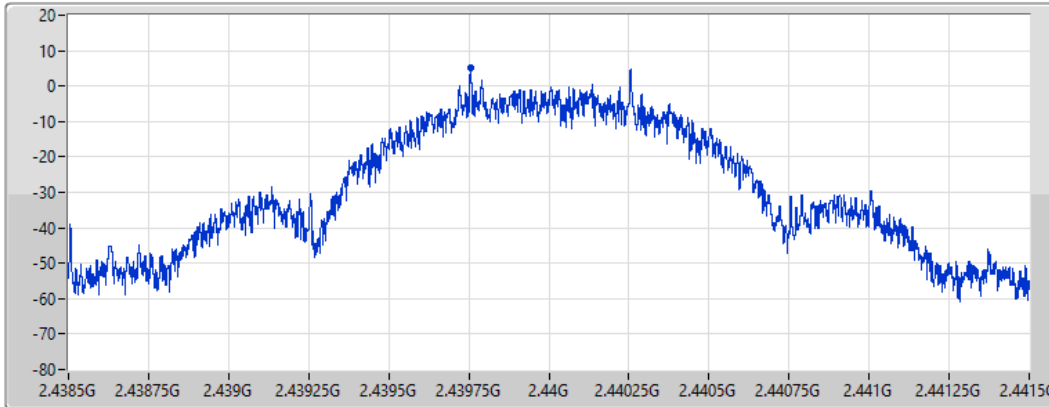
Span  
3MHz


RBW  
3kHz

VBW  
10kHz

Sweep Time  
632.01845us

Detector Type  
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.02	5.02	5.02

**BT-LE(500kbps)**

**PSD**

**2480MHz**

28/04/2021

CF  
2.48GHz

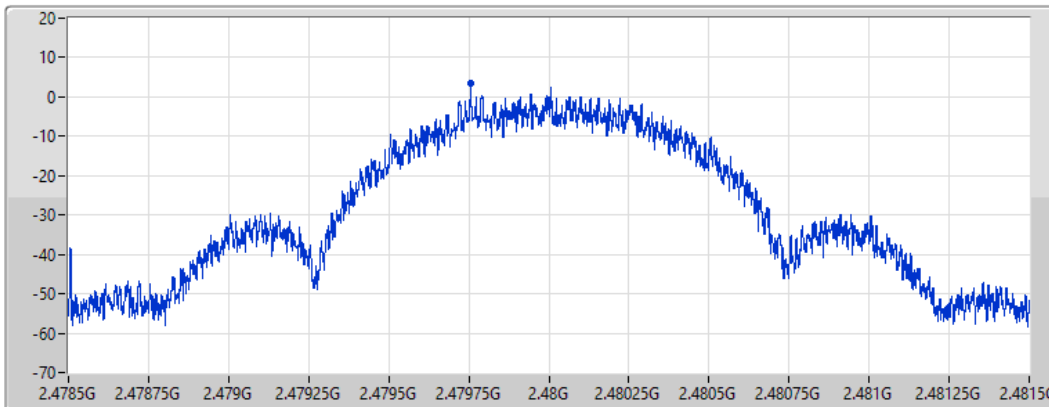
Span  
3MHz


RBW  
3kHz

VBW  
10kHz

Sweep Time  
632.01845us

Detector Type  
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.65	3.65	3.65



Summary

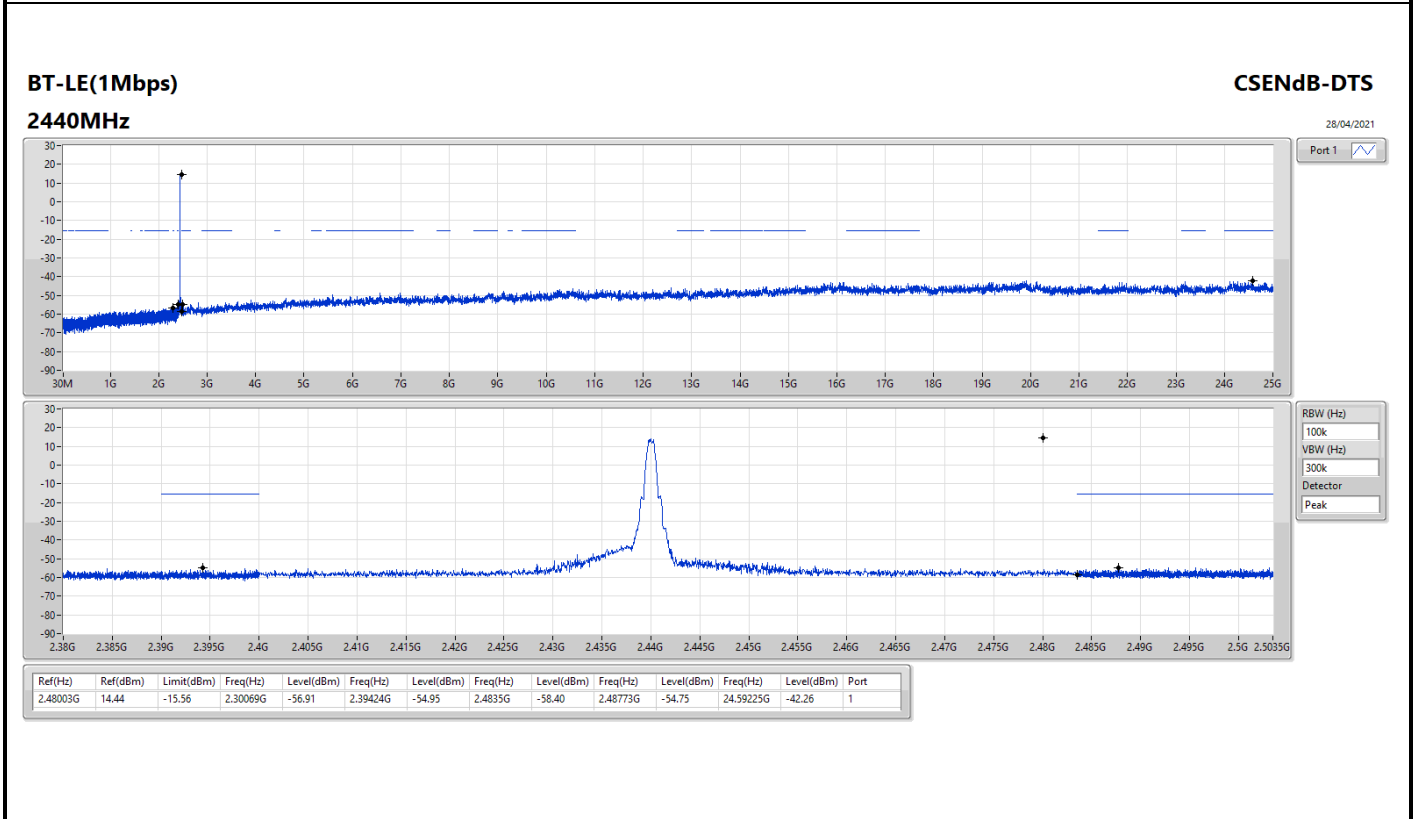
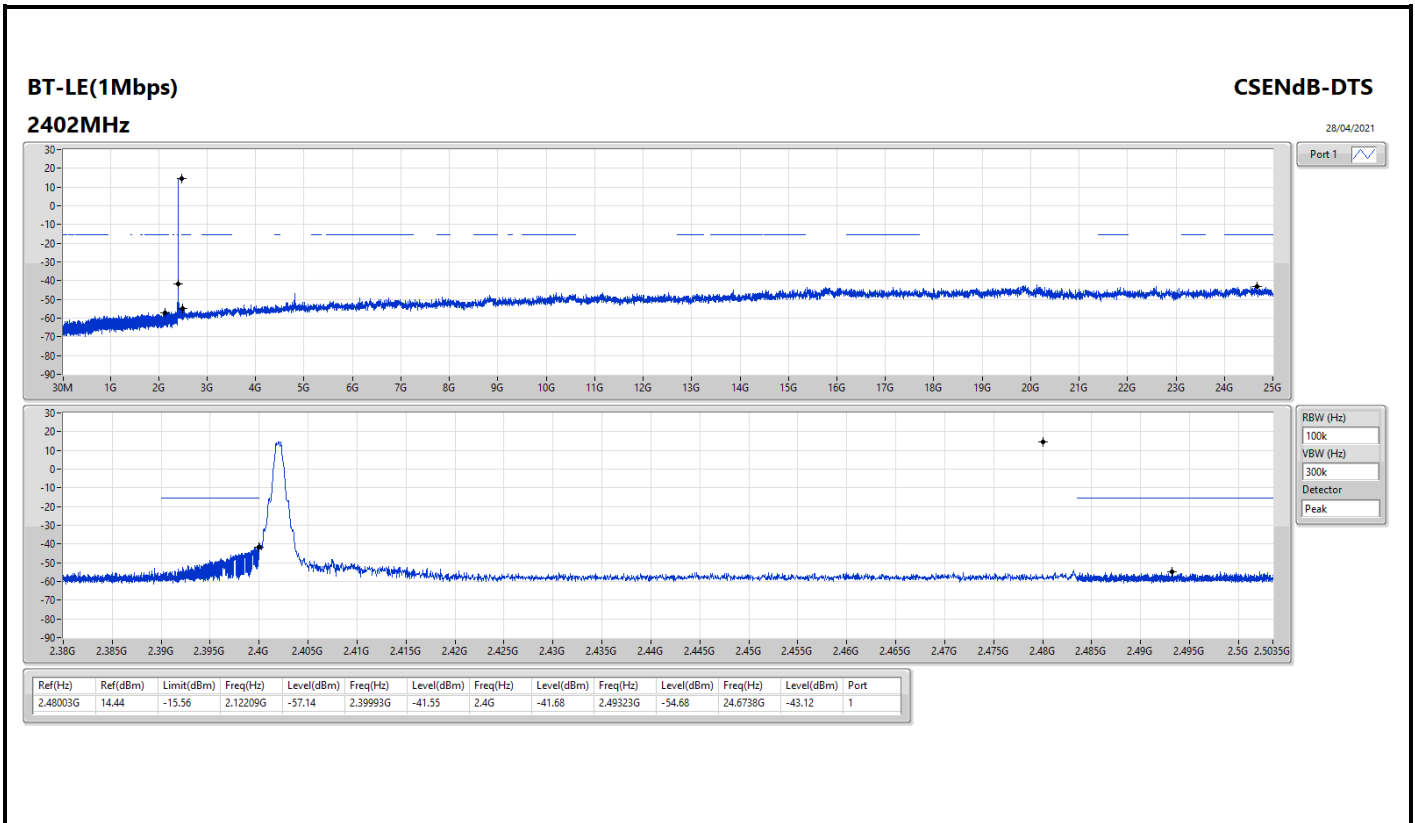
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.48003G	14.44	-15.56	2.12209G	-57.14	2.39993G	-41.55	2.4G	-41.68	2.49323G	-54.68	24.6738G	-43.12	1
BT-LE(2Mbps)	Pass	2.40251G	12.75	-17.25	2.19934G	-55.65	2.39999G	-19.18	2.4G	-20.04	2.48933G	-53.37	23.3212G	-42.14	1
BT-LE(125kbps)	Pass	2.402G	8.19	-21.81	2.16116G	-56.71	2.39992G	-42.68	2.4G	-51.13	2.50133G	-54.83	24.53039G	-42.19	1
BT-LE(500kbps)	Pass	2.402G	14.75	-15.25	1.96523G	-56.46	2.39961G	-42.46	2.4G	-46.86	2.49261G	-54.30	24.54445G	-42.40	1

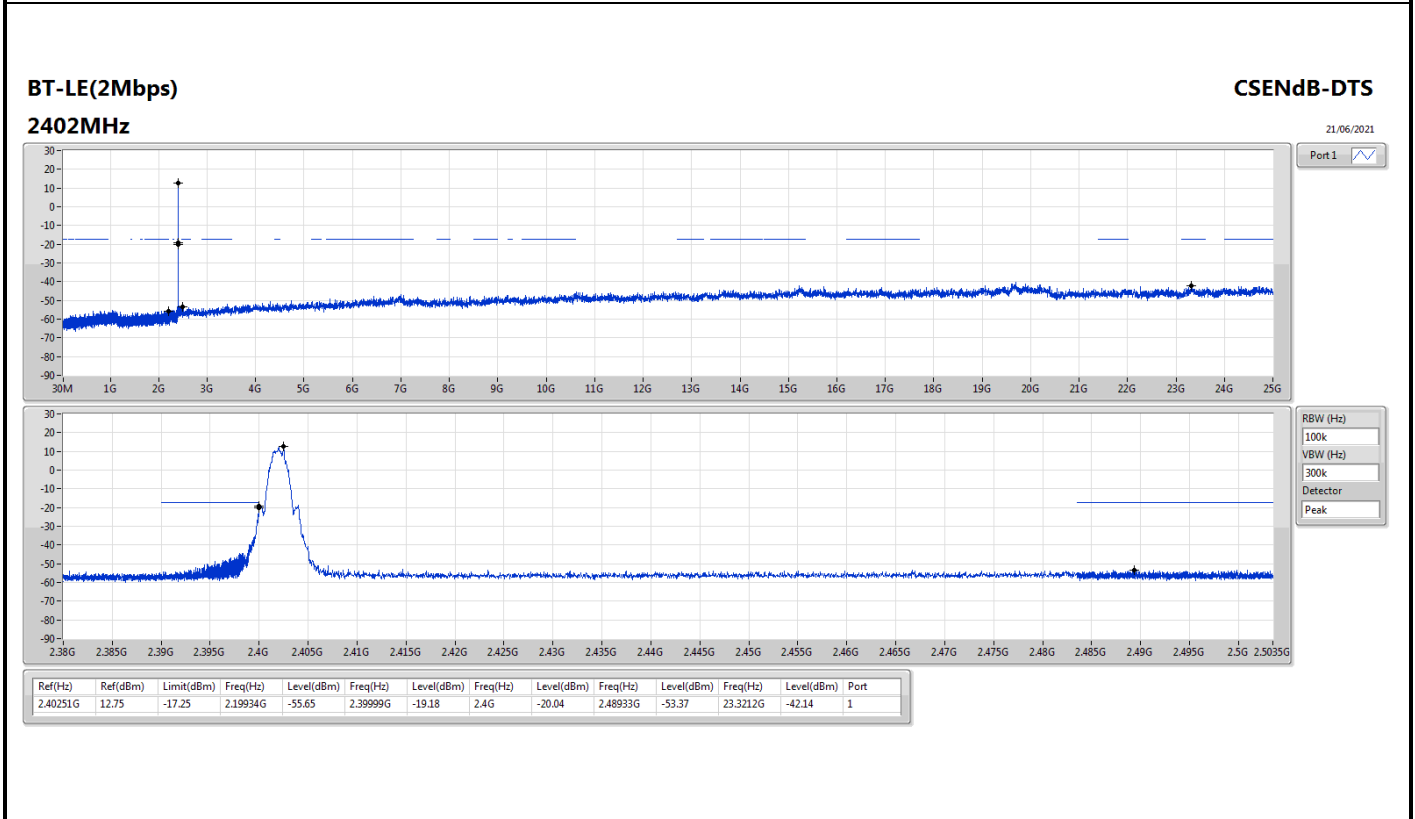
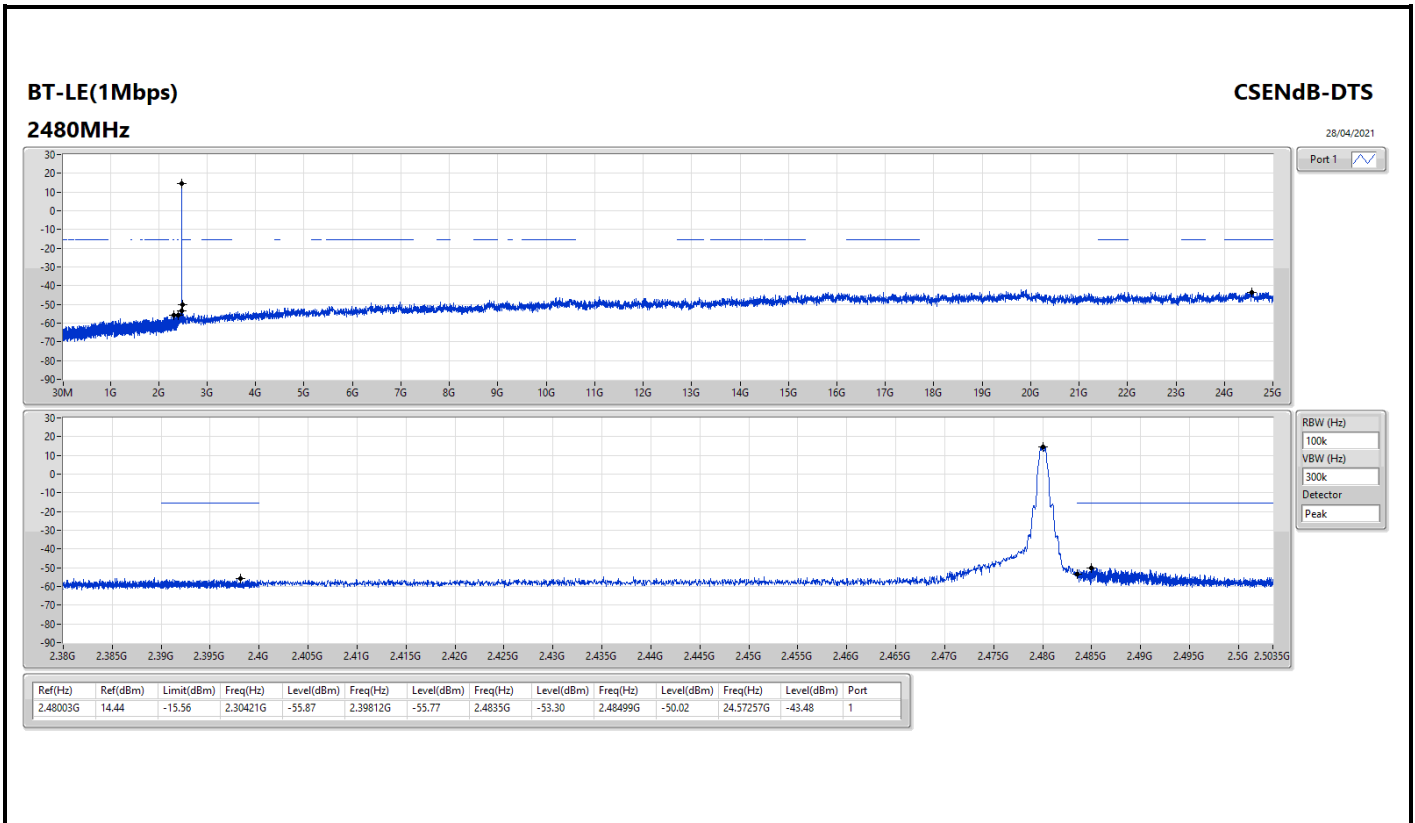


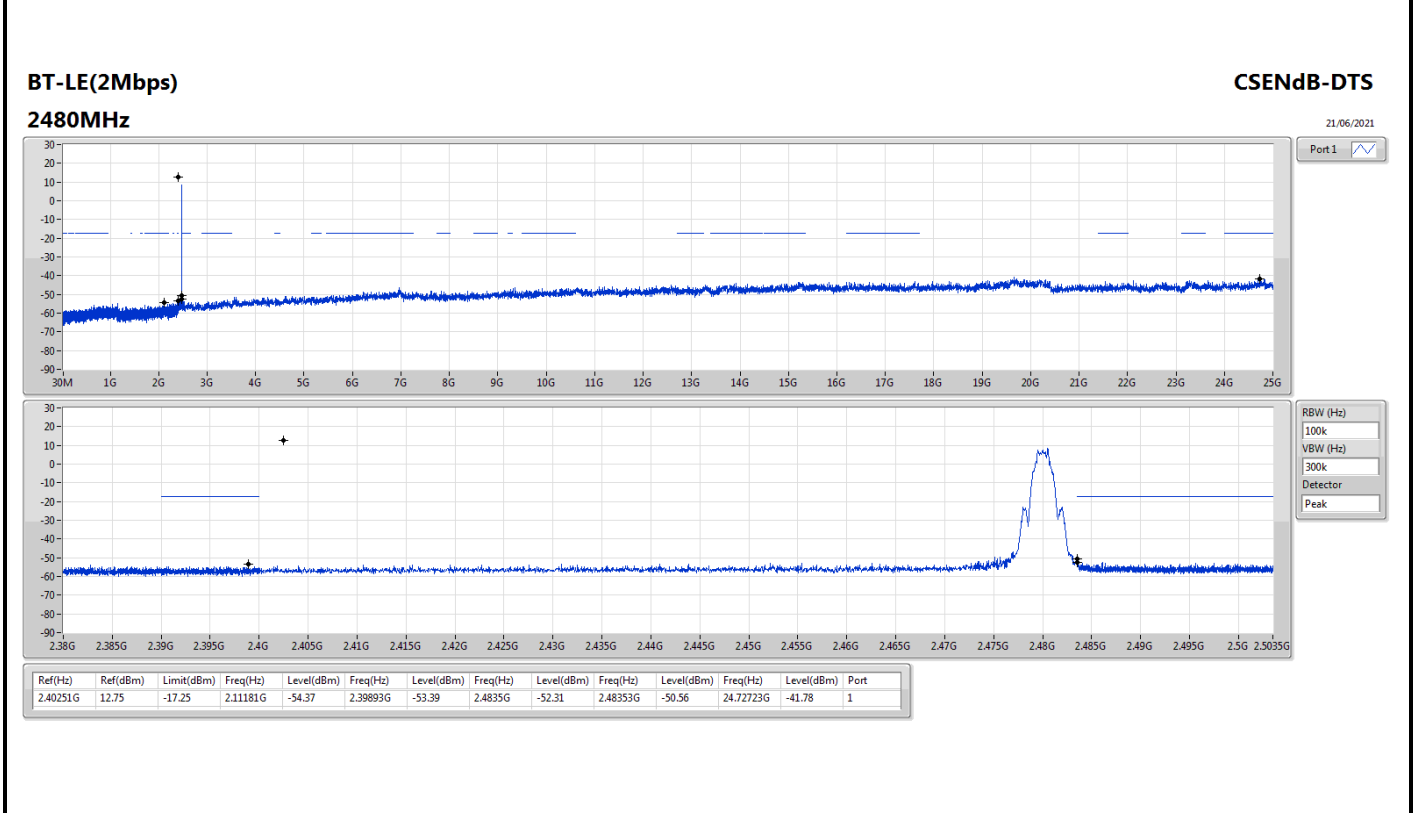
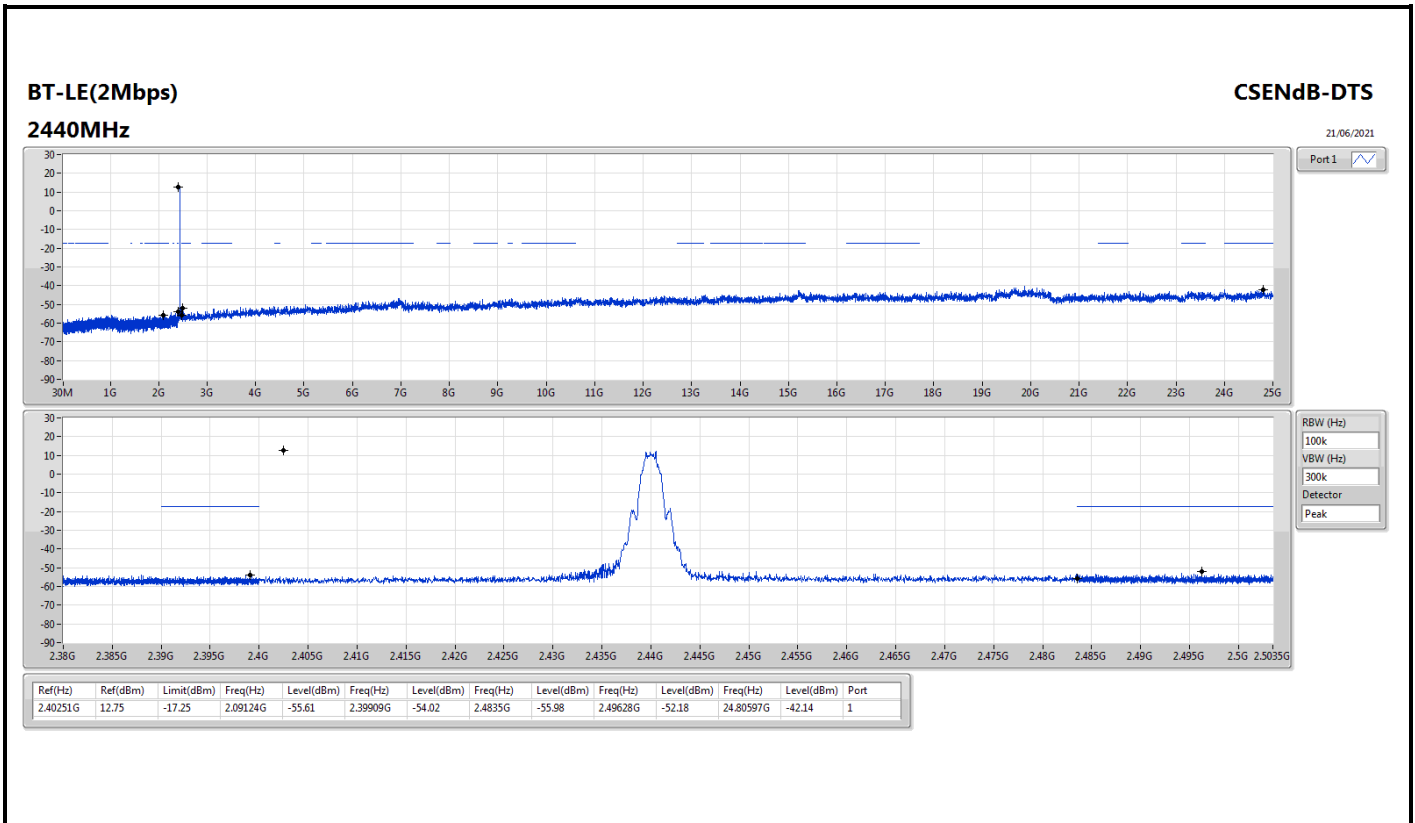


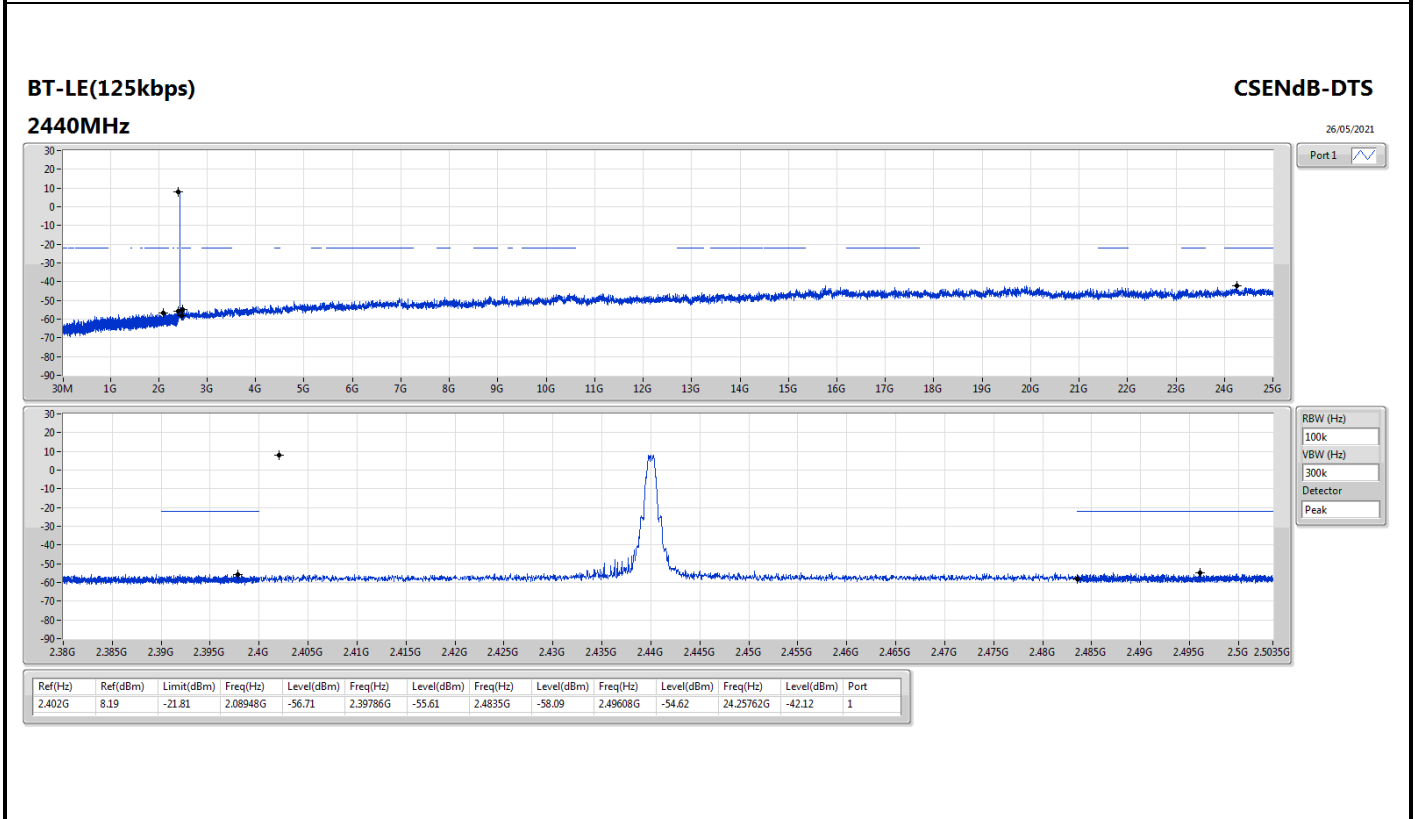
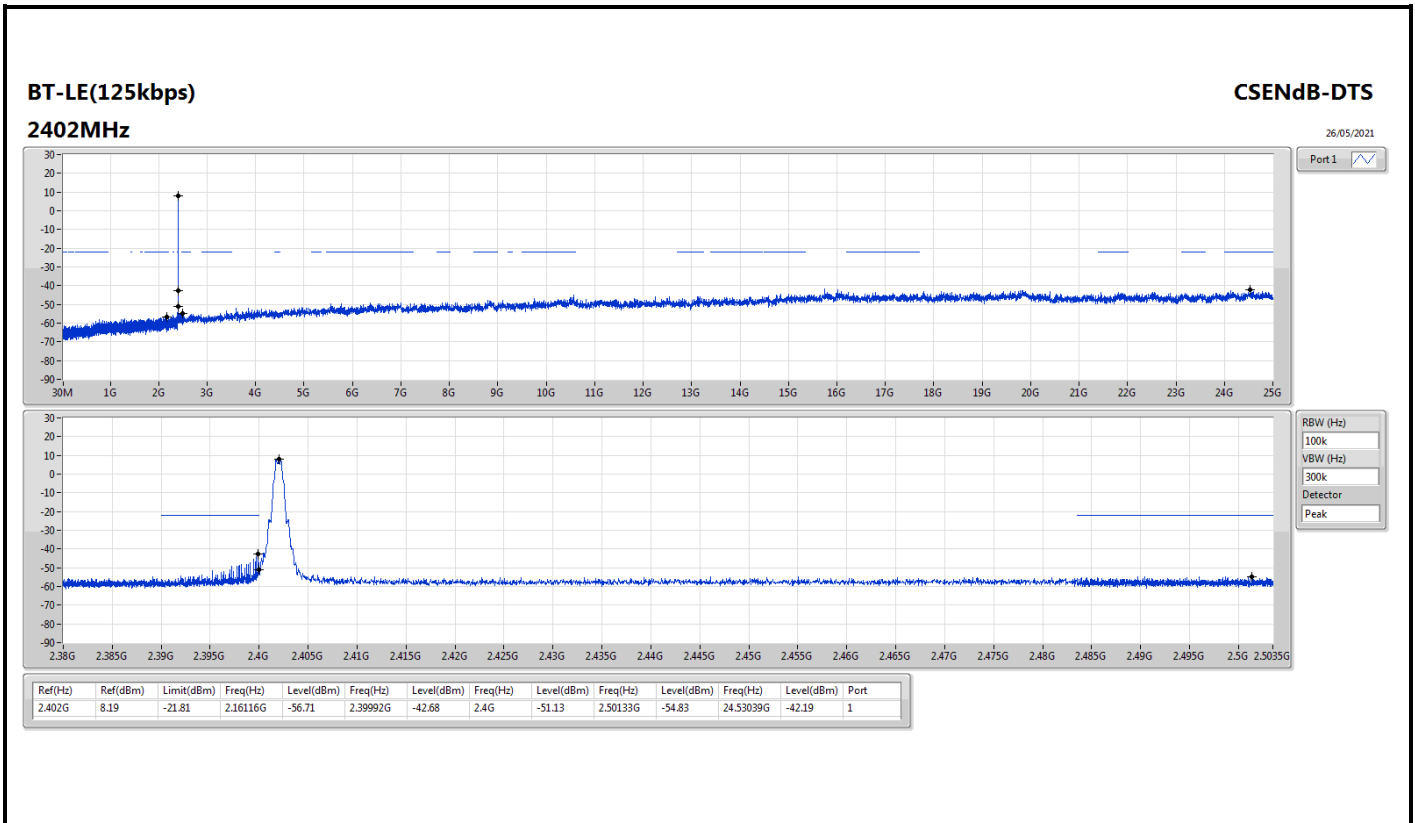
Result

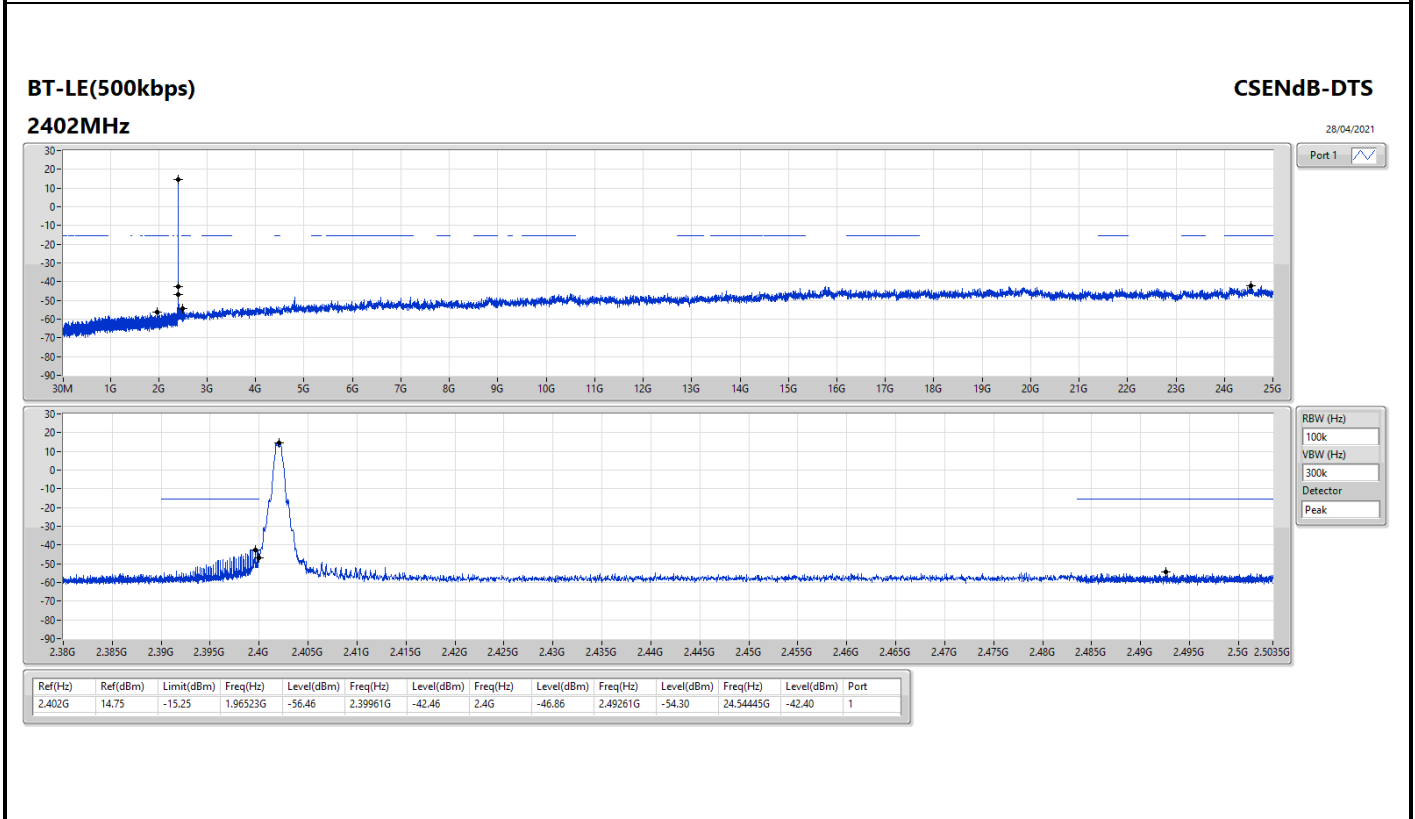
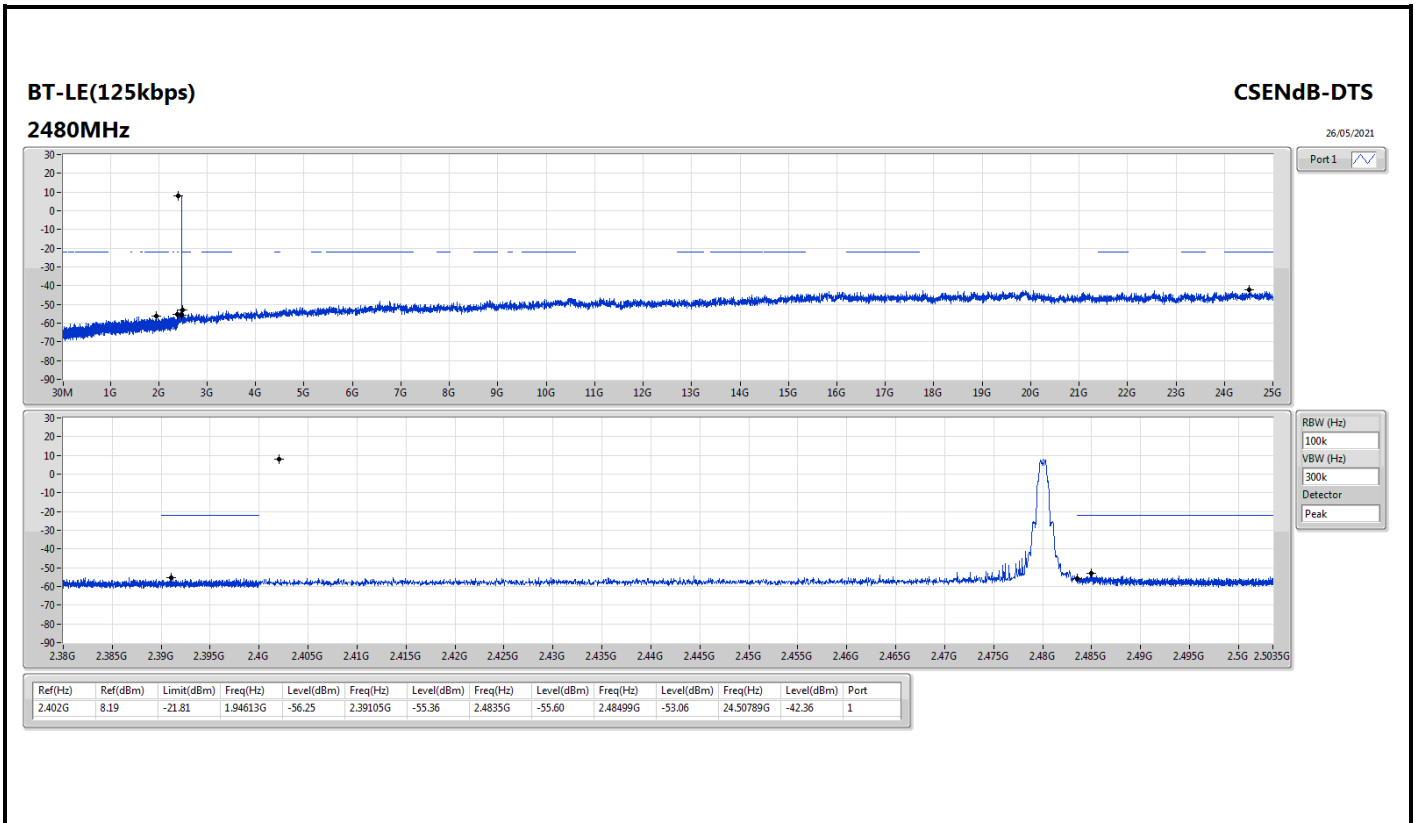
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.48003G	14.44	-15.56	2.12209G	-57.14	2.39993G	-41.55	2.4G	-41.68	2.49323G	-54.68	24.6738G	-43.12	1
2440MHz	Pass	2.48003G	14.44	-15.56	2.30069G	-56.91	2.39424G	-54.95	2.4835G	-58.40	2.48773G	-54.75	24.59225G	-42.26	1
2480MHz	Pass	2.48003G	14.44	-15.56	2.30421G	-55.87	2.39812G	-55.77	2.4835G	-53.30	2.48499G	-50.02	24.57257G	-43.48	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40251G	12.75	-17.25	2.19934G	-55.65	2.39999G	-19.18	2.4G	-20.04	2.48933G	-53.37	23.3212G	-42.14	1
2440MHz	Pass	2.40251G	12.75	-17.25	2.09124G	-55.61	2.39909G	-54.02	2.4835G	-55.98	2.49628G	-52.18	24.80597G	-42.14	1
2480MHz	Pass	2.40251G	12.75	-17.25	2.11181G	-54.37	2.39893G	-53.39	2.4835G	-52.31	2.48353G	-50.56	24.72723G	-41.78	1
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	8.19	-21.81	2.16116G	-56.71	2.39992G	-42.68	2.4G	-51.13	2.50133G	-54.83	24.53039G	-42.19	1
2440MHz	Pass	2.402G	8.19	-21.81	2.08948G	-56.71	2.39786G	-55.61	2.4835G	-58.09	2.49608G	-54.62	24.25762G	-42.12	1
2480MHz	Pass	2.402G	8.19	-21.81	1.94613G	-56.25	2.39105G	-55.36	2.4835G	-55.60	2.48499G	-53.06	24.50789G	-42.36	1
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	14.75	-15.25	1.96523G	-56.46	2.39961G	-42.46	2.4G	-46.86	2.49261G	-54.30	24.54445G	-42.40	1
2440MHz	Pass	2.402G	14.75	-15.25	2.14559G	-56.58	2.39571G	-55.21	2.4835G	-58.26	2.48951G	-54.91	24.80316G	-42.98	1
2480MHz	Pass	2.402G	14.75	-15.25	1.74344G	-56.59	2.39433G	-55.39	2.4835G	-55.43	2.48371G	-47.76	24.47977G	-43.04	1

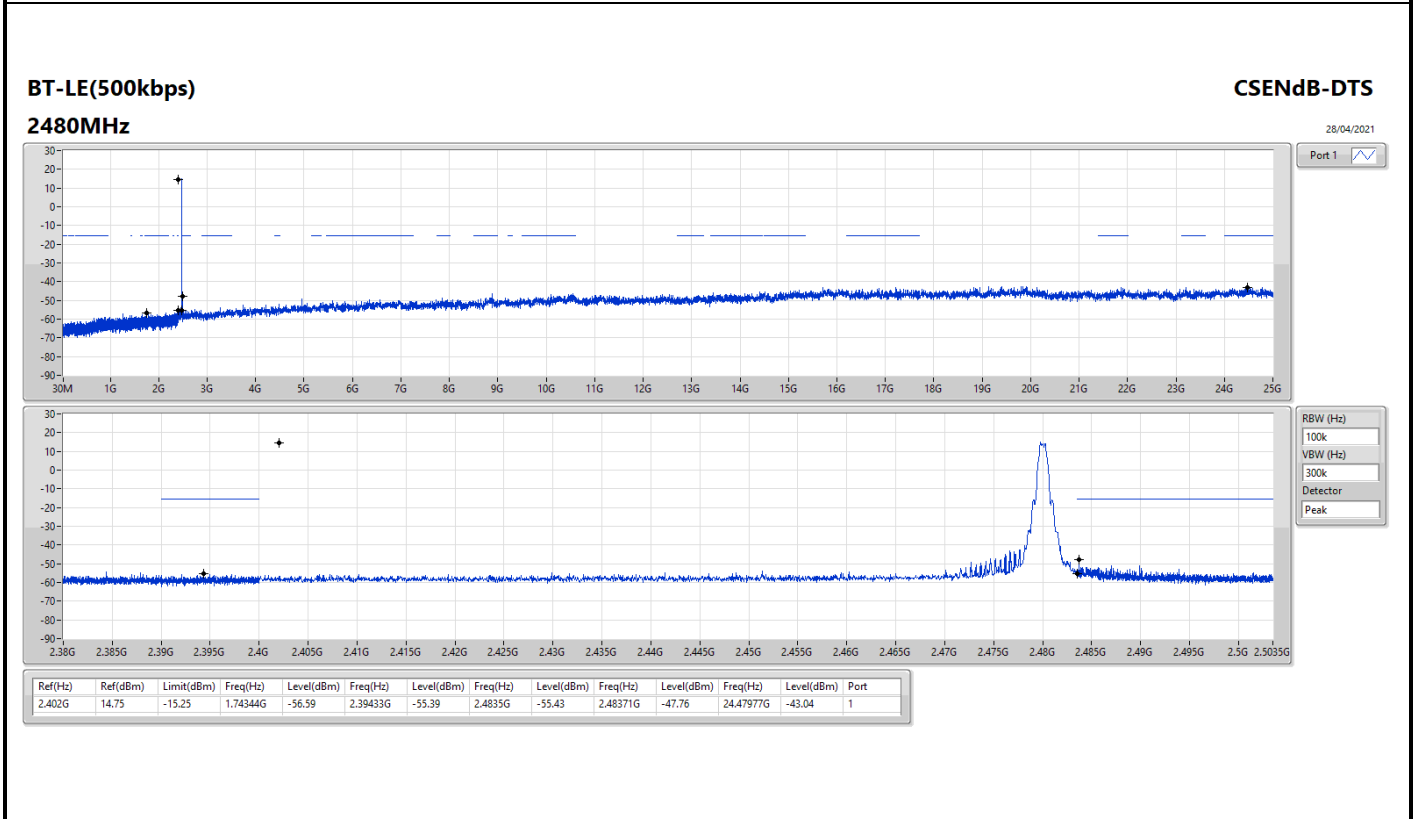
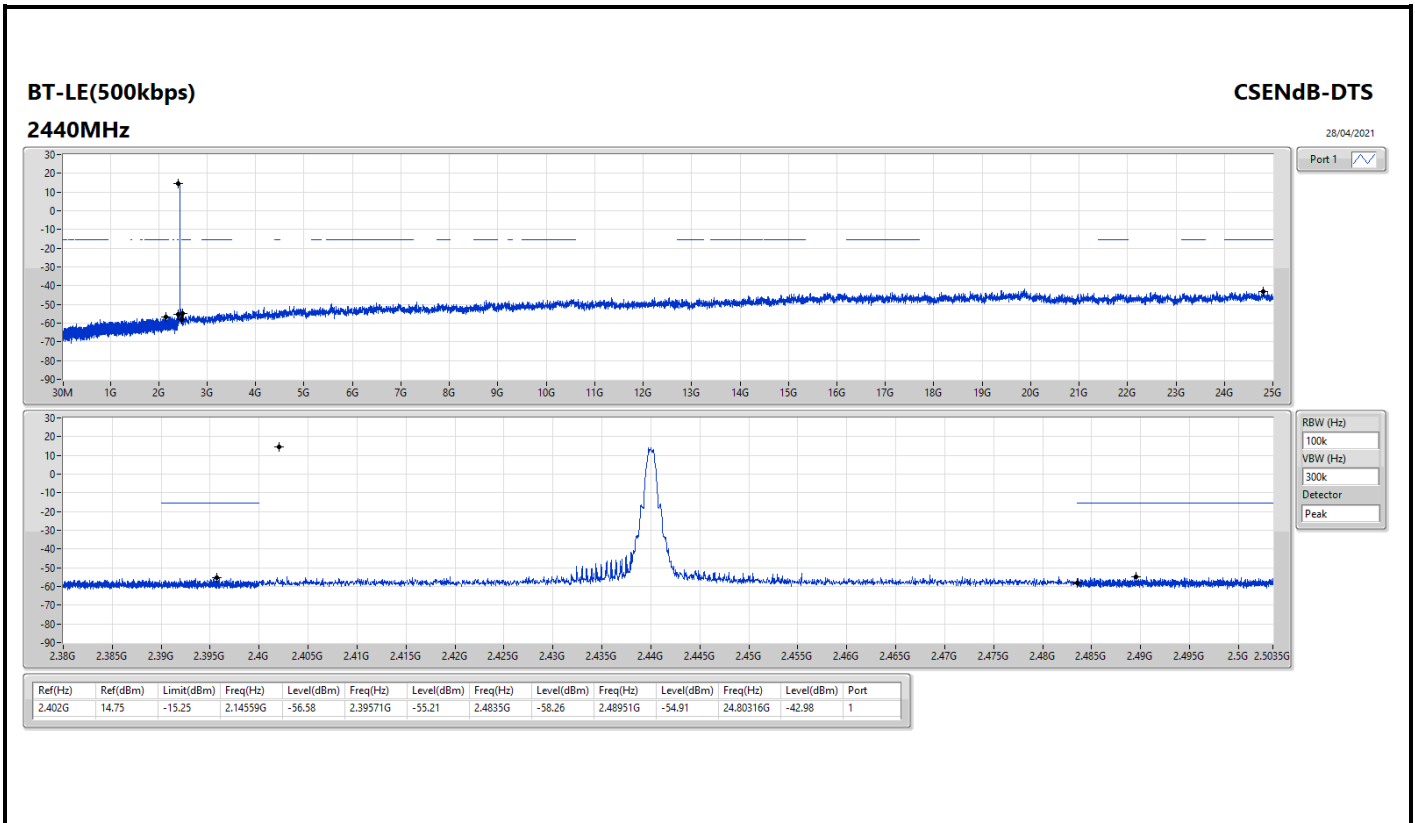














Summary

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	47.46M	27.87	40.00	-12.13	3	Vertical	360	1.00	-

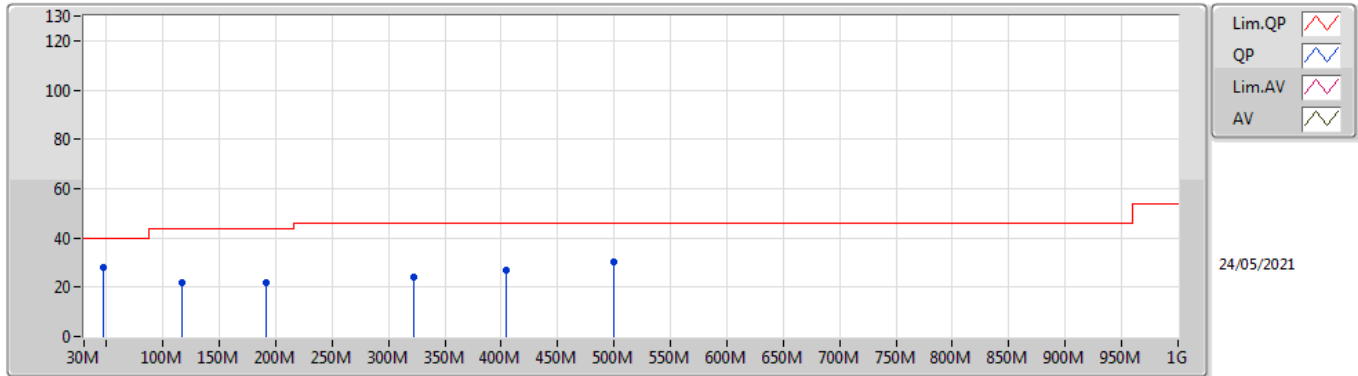




Result

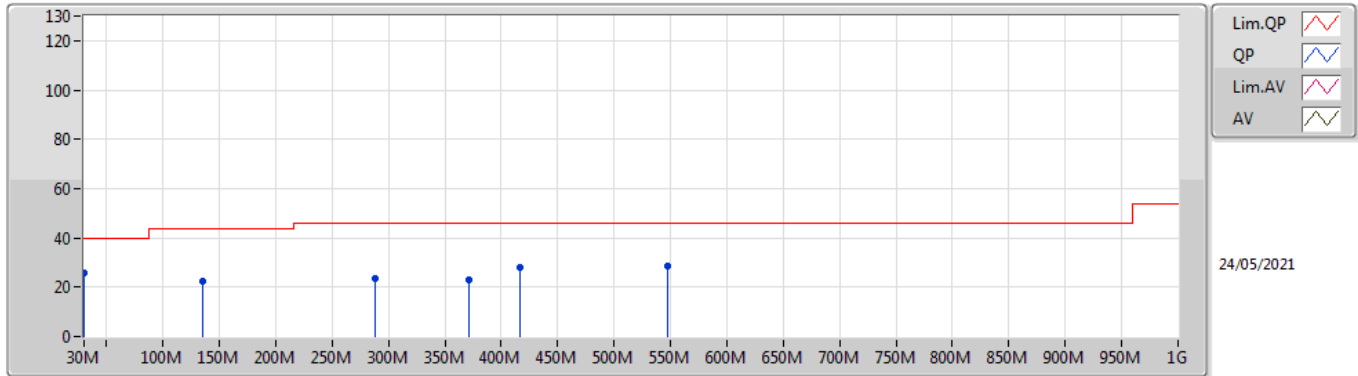
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	47.46M	27.87	40.00	-12.13	3	Vertical	360	1.00	-
2440MHz	Pass	PK	117.3M	22.09	43.50	-21.41	3	Vertical	360	1.00	-
2440MHz	Pass	PK	191.02M	22.10	43.50	-21.40	3	Vertical	360	1.00	-
2440MHz	Pass	PK	322.94M	24.09	46.00	-21.91	3	Vertical	360	1.00	-
2440MHz	Pass	PK	404.42M	27.07	46.00	-18.93	3	Vertical	360	1.00	-
2440MHz	Pass	PK	499.48M	30.30	46.00	-15.70	3	Vertical	360	1.00	-
2440MHz	Pass	PK	30M	25.97	40.00	-14.03	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	134.76M	22.38	43.50	-21.12	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	288.02M	23.36	46.00	-22.64	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	371.44M	22.95	46.00	-23.05	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	416.06M	27.74	46.00	-18.26	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	547.98M	28.34	46.00	-17.66	3	Horizontal	0	1.00	-

**BT-LE(2Mbps)**  
**2440MHz\_Test Fixture**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	47.46M	27.87	40.00	-12.13	-12.45	3	Vertical	360	1.00	-	40.32	14.05	1.11	27.61
PK	117.3M	22.09	43.50	-21.41	-8.12	3	Vertical	360	1.00	-	30.21	17.39	1.86	27.37
PK	191.02M	22.10	43.50	-21.40	-10.48	3	Vertical	360	1.00	-	32.58	14.28	2.33	27.09
PK	322.94M	24.09	46.00	-21.91	-4.99	3	Vertical	360	1.00	-	29.08	18.80	3.08	26.87
PK	404.42M	27.07	46.00	-18.93	-2.55	3	Vertical	360	1.00	-	29.62	21.28	3.47	27.30
PK	499.48M	30.30	46.00	-15.70	-1.03	3	Vertical	360	1.00	-	31.33	22.78	3.87	27.68

**BT-LE(2Mbps)**  
**2440MHz\_Test Fixture**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	25.97	40.00	-14.03	-3.42	3	Horizontal	0	1.00	-	29.39	23.32	0.90	27.64
PK	134.76M	22.38	43.50	-21.12	-8.63	3	Horizontal	0	1.00	-	31.01	16.71	1.96	27.30
PK	288.02M	23.36	46.00	-22.64	-5.75	3	Horizontal	0	1.00	-	29.11	18.16	2.86	26.77
PK	371.44M	22.95	46.00	-23.05	-3.72	3	Horizontal	0	1.00	-	26.67	20.03	3.34	27.09
PK	416.06M	27.74	46.00	-18.26	-2.05	3	Horizontal	0	1.00	-	29.79	21.84	3.52	27.41
PK	547.98M	28.34	46.00	-17.66	-0.20	3	Horizontal	0	1.00	-	28.54	23.85	4.07	28.12



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	4.95998G	50.95	54.00	-3.05	3	Vertical	289	1.04	-
BT-LE(2Mbps)	Pass	AV	2.4835G	51.58	54.00	-2.42	3	Vertical	205	2.04	-
BT-LE(125kbps)	Pass	AV	2.4835G	49.51	54.00	-4.49	3	Vertical	206	1.48	-
BT-LE(500kbps)	Pass	AV	2.4835G	49.51	54.00	-4.49	3	Vertical	206	1.91	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3564G	48.93	54.00	-5.07	3	Vertical	205	1.71	-
2402MHz	Pass	AV	2.402G	113.08	Inf	-Inf	3	Vertical	205	1.71	-
2402MHz	Pass	PK	2.3878G	60.23	74.00	-13.77	3	Vertical	205	1.71	-
2402MHz	Pass	PK	2.4018G	113.93	Inf	-Inf	3	Vertical	205	1.71	-
2402MHz	Pass	AV	4.80393G	49.40	54.00	-4.60	3	Vertical	241	1.01	-
2402MHz	Pass	PK	4.80382G	55.07	74.00	-18.93	3	Vertical	241	1.01	-
2402MHz	Pass	AV	4.80389G	38.09	54.00	-15.91	3	Horizontal	260	1.49	-
2402MHz	Pass	PK	4.80467G	48.15	74.00	-25.85	3	Horizontal	260	1.49	-
2440MHz	Pass	AV	2.3484G	48.76	54.00	-5.24	3	Vertical	206	1.80	-
2440MHz	Pass	AV	2.44G	113.51	Inf	-Inf	3	Vertical	206	1.80	-
2440MHz	Pass	AV	2.4924G	49.53	54.00	-4.47	3	Vertical	206	1.80	-
2440MHz	Pass	PK	2.3564G	59.95	74.00	-14.05	3	Vertical	206	1.80	-
2440MHz	Pass	PK	2.4396G	114.37	Inf	-Inf	3	Vertical	206	1.80	-
2440MHz	Pass	PK	2.4852G	60.65	74.00	-13.35	3	Vertical	206	1.80	-
2440MHz	Pass	AV	4.87995G	50.06	54.00	-3.94	3	Vertical	289	1.05	-
2440MHz	Pass	AV	7.31926G	42.86	54.00	-11.14	3	Vertical	351	1.58	-
2440MHz	Pass	PK	4.88021G	55.43	74.00	-18.57	3	Vertical	289	1.05	-
2440MHz	Pass	PK	7.31932G	52.92	74.00	-21.08	3	Vertical	351	1.58	-
2440MHz	Pass	AV	4.87971G	37.47	54.00	-16.53	3	Horizontal	37	1.64	-
2440MHz	Pass	AV	7.31798G	41.11	54.00	-12.89	3	Horizontal	334	1.78	-
2440MHz	Pass	PK	4.87999G	48.55	74.00	-25.45	3	Horizontal	37	1.64	-
2440MHz	Pass	PK	7.31966G	52.26	74.00	-21.74	3	Horizontal	334	1.78	-
2480MHz	Pass	AV	2.48G	114.34	Inf	-Inf	3	Vertical	206	1.49	-
2480MHz	Pass	AV	2.4835G	50.47	54.00	-3.53	3	Vertical	206	1.49	-
2480MHz	Pass	PK	2.4798G	115.18	Inf	-Inf	3	Vertical	206	1.49	-
2480MHz	Pass	PK	2.4852G	65.74	74.00	-8.26	3	Vertical	206	1.49	-
2480MHz	Pass	AV	4.95998G	50.95	54.00	-3.05	3	Vertical	289	1.04	-
2480MHz	Pass	AV	7.43938G	46.00	54.00	-8.00	3	Vertical	181	1.12	-
2480MHz	Pass	PK	4.96012G	56.25	74.00	-17.75	3	Vertical	289	1.04	-
2480MHz	Pass	PK	7.44082G	54.47	74.00	-19.53	3	Vertical	181	1.12	-
2480MHz	Pass	AV	4.95983G	40.70	54.00	-13.30	3	Horizontal	236	2.35	-
2480MHz	Pass	AV	7.43941G	41.84	54.00	-12.16	3	Horizontal	180	2.96	-
2480MHz	Pass	PK	4.95977G	49.90	74.00	-24.10	3	Horizontal	236	2.35	-
2480MHz	Pass	PK	7.43948G	52.45	74.00	-21.55	3	Horizontal	180	2.96	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3868G	48.15	54.00	-5.85	3	Vertical	206	1.71	-
2402MHz	Pass	AV	2.402G	111.57	Inf	-Inf	3	Vertical	206	1.71	-
2402MHz	Pass	PK	2.3724G	60.46	74.00	-13.54	3	Vertical	206	1.71	-
2402MHz	Pass	PK	2.4016G	114.01	Inf	-Inf	3	Vertical	206	1.71	-
2402MHz	Pass	AV	4.8031G	46.82	54.00	-7.18	3	Vertical	240	1.11	-
2402MHz	Pass	PK	4.80309G	54.58	74.00	-19.42	3	Vertical	240	1.11	-
2402MHz	Pass	AV	4.80316G	36.29	54.00	-17.71	3	Horizontal	186	1.50	-
2402MHz	Pass	PK	4.80312G	47.17	74.00	-26.83	3	Horizontal	186	1.50	-
2440MHz	Pass	AV	2.3872G	48.16	54.00	-5.84	3	Vertical	206	1.82	-
2440MHz	Pass	AV	2.44G	112.18	Inf	-Inf	3	Vertical	206	1.82	-
2440MHz	Pass	AV	2.4976G	48.77	54.00	-5.23	3	Vertical	206	1.82	-
2440MHz	Pass	PK	2.3728G	60.19	74.00	-13.81	3	Vertical	206	1.82	-
2440MHz	Pass	PK	2.4396G	114.63	Inf	-Inf	3	Vertical	206	1.82	-
2440MHz	Pass	PK	2.4992G	60.12	74.00	-13.88	3	Vertical	206	1.82	-
2440MHz	Pass	AV	4.88038G	46.72	54.00	-7.28	3	Vertical	288	1.09	-
2440MHz	Pass	AV	7.31869G	42.37	54.00	-11.63	3	Vertical	231	1.78	-
2440MHz	Pass	PK	4.87893G	55.04	74.00	-18.96	3	Vertical	288	1.09	-
2440MHz	Pass	PK	7.3186G	53.47	74.00	-20.53	3	Vertical	231	1.78	-
2440MHz	Pass	AV	4.87894G	35.98	54.00	-18.02	3	Horizontal	281	1.49	-
2440MHz	Pass	AV	7.32142G	40.31	54.00	-13.69	3	Horizontal	182	2.55	-
2440MHz	Pass	PK	4.8808G	47.58	74.00	-26.42	3	Horizontal	281	1.49	-
2440MHz	Pass	PK	7.32228G	52.13	74.00	-21.87	3	Horizontal	182	2.55	-
2480MHz	Pass	AV	2.48G	107.44	Inf	-Inf	3	Vertical	205	2.04	-
2480MHz	Pass	AV	2.4835G	51.58	54.00	-2.42	3	Vertical	205	2.04	-
2480MHz	Pass	PK	2.4804G	109.92	Inf	-Inf	3	Vertical	205	2.04	-



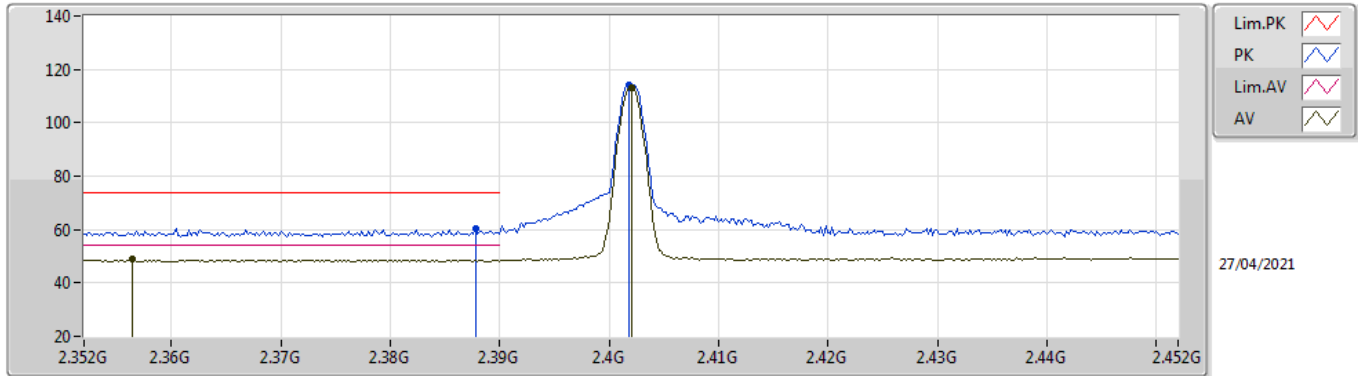
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2480MHz	Pass	PK	2.4864G	62.19	74.00	-11.81	3	Vertical	205	2.04	-
2480MHz	Pass	AV	4.96013G	38.02	54.00	-15.98	3	Vertical	244	1.06	-
2480MHz	Pass	AV	7.44194G	38.77	54.00	-15.23	3	Vertical	134	1.49	-
2480MHz	Pass	PK	4.95984G	48.54	74.00	-25.46	3	Vertical	244	1.06	-
2480MHz	Pass	PK	7.44008G	50.82	74.00	-23.18	3	Vertical	134	1.49	-
2480MHz	Pass	AV	4.95983G	34.85	54.00	-19.15	3	Horizontal	46	1.44	-
2480MHz	Pass	AV	7.44211G	37.62	54.00	-16.38	3	Horizontal	278	2.24	-
2480MHz	Pass	PK	4.95884G	45.93	74.00	-28.07	3	Horizontal	46	1.44	-
2480MHz	Pass	PK	7.44223G	50.84	74.00	-23.16	3	Horizontal	278	2.24	-
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.352G	47.34	54.00	-6.66	3	Vertical	205	1.71	-
2402MHz	Pass	AV	2.402G	113.22	Inf	-Inf	3	Vertical	205	1.71	-
2402MHz	Pass	PK	2.3622G	61.67	74.00	-12.33	3	Vertical	205	1.71	-
2402MHz	Pass	PK	2.4018G	114.49	Inf	-Inf	3	Vertical	205	1.71	-
2402MHz	Pass	AV	4.80392G	48.79	54.00	-5.21	3	Vertical	241	1.22	-
2402MHz	Pass	PK	4.80386G	55.61	74.00	-18.39	3	Vertical	241	1.22	-
2402MHz	Pass	AV	4.80375G	36.83	54.00	-17.17	3	Horizontal	39	1.87	-
2402MHz	Pass	PK	4.80428G	48.18	74.00	-25.82	3	Horizontal	39	1.87	-
2440MHz	Pass	AV	2.34G	47.46	54.00	-6.54	3	Vertical	207	1.81	-
2440MHz	Pass	AV	2.44G	113.46	Inf	-Inf	3	Vertical	207	1.81	-
2440MHz	Pass	AV	2.4976G	48.19	54.00	-5.81	3	Vertical	207	1.81	-
2440MHz	Pass	PK	2.3624G	61.55	74.00	-12.45	3	Vertical	207	1.81	-
2440MHz	Pass	PK	2.4396G	114.55	Inf	-Inf	3	Vertical	207	1.81	-
2440MHz	Pass	PK	2.4835G	60.57	74.00	-13.43	3	Vertical	207	1.81	-
2440MHz	Pass	AV	4.88002G	48.59	54.00	-5.41	3	Vertical	282	1.10	-
2440MHz	Pass	AV	7.31936G	42.03	54.00	-11.97	3	Vertical	231	1.58	-
2440MHz	Pass	PK	4.8799G	55.47	74.00	-18.53	3	Vertical	282	1.10	-
2440MHz	Pass	PK	7.3209G	53.43	74.00	-20.57	3	Vertical	231	1.58	-
2440MHz	Pass	AV	4.88013G	37.07	54.00	-16.93	3	Horizontal	38	1.43	-
2440MHz	Pass	AV	7.32071G	39.88	54.00	-14.12	3	Horizontal	271	2.44	-
2440MHz	Pass	PK	4.87941G	48.36	74.00	-25.64	3	Horizontal	38	1.43	-
2440MHz	Pass	PK	7.31921G	53.02	74.00	-20.98	3	Horizontal	271	2.44	-
2480MHz	Pass	AV	2.48G	114.40	Inf	-Inf	3	Vertical	206	1.48	-
2480MHz	Pass	AV	2.4835G	49.51	54.00	-4.49	3	Vertical	206	1.48	-
2480MHz	Pass	PK	2.4798G	115.47	Inf	-Inf	3	Vertical	206	1.48	-
2480MHz	Pass	PK	2.4844G	66.62	74.00	-7.38	3	Vertical	206	1.48	-
2480MHz	Pass	AV	4.96004G	49.43	54.00	-4.57	3	Vertical	289	1.03	-
2480MHz	Pass	AV	7.44059G	44.62	54.00	-9.38	3	Vertical	181	1.34	-
2480MHz	Pass	PK	4.96004G	56.23	74.00	-17.77	3	Vertical	289	1.03	-
2480MHz	Pass	PK	7.43937G	54.99	74.00	-19.01	3	Vertical	181	1.34	-
2480MHz	Pass	AV	4.95986G	36.51	54.00	-17.49	3	Horizontal	36	1.43	-
2480MHz	Pass	AV	7.44064G	40.38	54.00	-13.62	3	Horizontal	208	2.64	-
2480MHz	Pass	PK	4.9604G	48.30	74.00	-25.70	3	Horizontal	36	1.43	-
2480MHz	Pass	PK	7.43922G	53.47	74.00	-20.53	3	Horizontal	208	2.64	-
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.352G	47.34	54.00	-6.66	3	Vertical	206	1.71	-
2402MHz	Pass	AV	2.402G	113.07	Inf	-Inf	3	Vertical	206	1.71	-
2402MHz	Pass	PK	2.362G	60.18	74.00	-13.82	3	Vertical	206	1.71	-
2402MHz	Pass	PK	2.4018G	114.36	Inf	-Inf	3	Vertical	206	1.71	-
2402MHz	Pass	AV	4.80396G	49.12	54.00	-4.88	3	Vertical	242	1.22	-
2402MHz	Pass	PK	4.80421G	55.88	74.00	-18.12	3	Vertical	242	1.22	-
2402MHz	Pass	AV	4.80372G	37.14	54.00	-16.86	3	Horizontal	40	1.59	-
2402MHz	Pass	PK	4.80352G	48.38	74.00	-25.62	3	Horizontal	40	1.59	-
2440MHz	Pass	AV	2.34G	47.46	54.00	-6.54	3	Vertical	206	1.80	-
2440MHz	Pass	AV	2.44G	113.56	Inf	-Inf	3	Vertical	206	1.80	-
2440MHz	Pass	AV	2.4976G	48.19	54.00	-5.81	3	Vertical	206	1.80	-
2440MHz	Pass	PK	2.3844G	60.40	74.00	-13.60	3	Vertical	206	1.80	-
2440MHz	Pass	PK	2.4396G	114.65	Inf	-Inf	3	Vertical	206	1.80	-
2440MHz	Pass	PK	2.5G	60.04	74.00	-13.96	3	Vertical	206	1.80	-
2440MHz	Pass	AV	4.87996G	49.27	54.00	-4.73	3	Vertical	289	1.07	-
2440MHz	Pass	AV	7.32064G	41.59	54.00	-12.41	3	Vertical	352	1.52	-
2440MHz	Pass	PK	4.88018G	55.85	74.00	-18.15	3	Vertical	289	1.07	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	PK	7.31931G	53.38	74.00	-20.62	3	Vertical	352	1.52	-
2440MHz	Pass	AV	4.87984G	37.07	54.00	-16.93	3	Horizontal	37	1.43	-
2440MHz	Pass	AV	7.32064G	40.10	54.00	-13.90	3	Horizontal	171	2.68	-
2440MHz	Pass	PK	4.87983G	48.44	74.00	-25.56	3	Horizontal	37	1.43	-
2440MHz	Pass	PK	7.32085G	52.32	74.00	-21.68	3	Horizontal	171	2.68	-
2480MHz	Pass	AV	2.48G	114.32	Inf	-Inf	3	Vertical	206	1.91	-
2480MHz	Pass	AV	2.4835G	49.51	54.00	-4.49	3	Vertical	206	1.91	-
2480MHz	Pass	PK	2.4798G	115.39	Inf	-Inf	3	Vertical	206	1.91	-
2480MHz	Pass	PK	2.4836G	67.11	74.00	-6.89	3	Vertical	206	1.91	-
2480MHz	Pass	AV	4.95997G	48.65	54.00	-5.35	3	Vertical	288	1.23	-
2480MHz	Pass	AV	7.44053G	41.76	54.00	-12.24	3	Vertical	166	1.34	-
2480MHz	Pass	PK	4.95997G	55.71	74.00	-18.29	3	Vertical	288	1.23	-
2480MHz	Pass	PK	7.43925G	53.66	74.00	-20.34	3	Vertical	166	1.34	-
2480MHz	Pass	AV	4.95969G	36.75	54.00	-17.25	3	Horizontal	36	1.48	-
2480MHz	Pass	AV	7.43938G	40.26	54.00	-13.74	3	Horizontal	208	2.84	-
2480MHz	Pass	PK	4.96061G	48.36	74.00	-25.64	3	Horizontal	36	1.48	-
2480MHz	Pass	PK	7.44102G	52.73	74.00	-21.27	3	Horizontal	208	2.84	-

**BT-LE(1Mbps)**

**2402MHz\_TX**

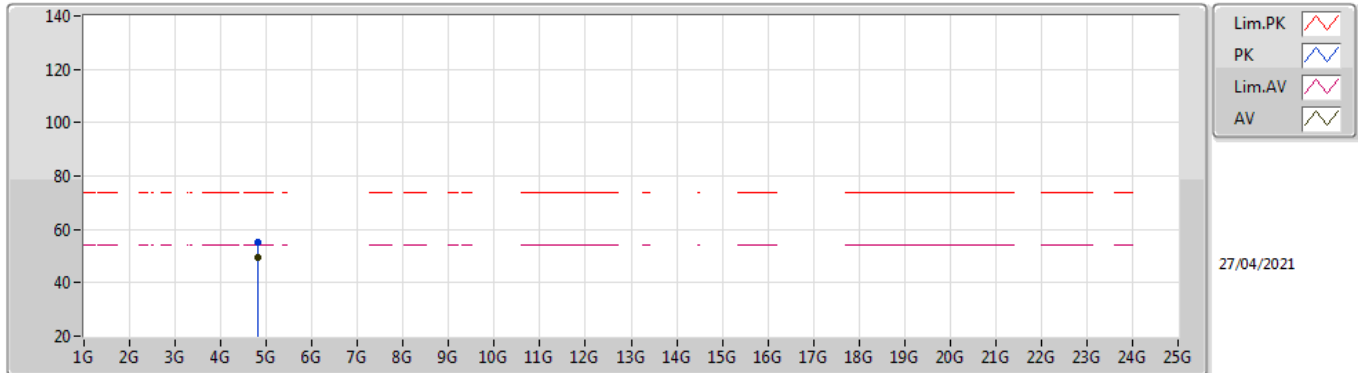


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3564G	48.93	54.00	-5.07	32.03	3	Vertical	205	1.71	-	16.90	27.77	4.26	-
AV	2.402G	113.08	Inf	-Inf	31.90	3	Vertical	205	1.71	-	81.18	27.60	4.30	-
PK	2.3878G	60.23	74.00	-13.77	31.94	3	Vertical	205	1.71	-	28.29	27.65	4.29	-
PK	2.4018G	113.93	Inf	-Inf	31.90	3	Vertical	205	1.71	-	82.03	27.60	4.30	-



### BT-LE(1Mbps)

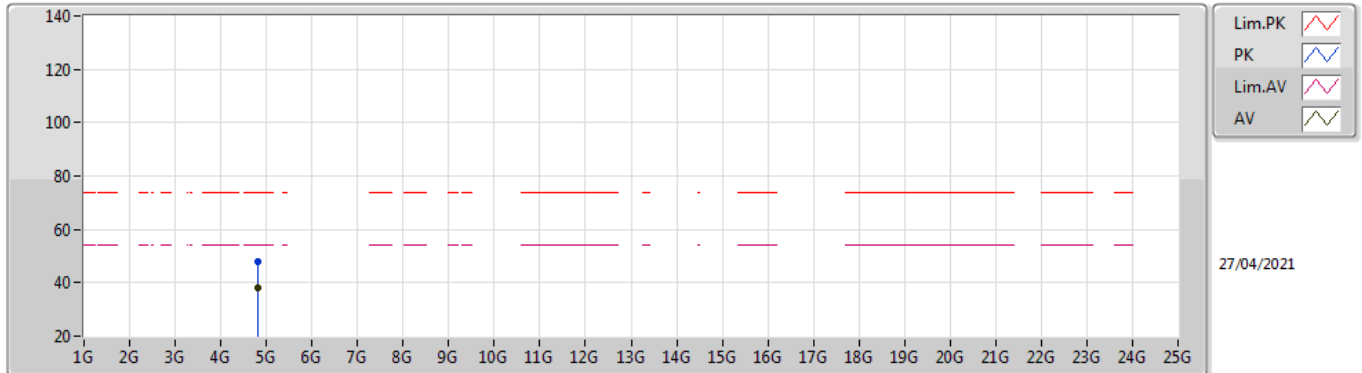
### 2402MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80393G	49.40	54.00	-4.60	8.38	3	Vertical	241	1.01	-	41.02	31.11	6.50	29.23
PK	4.80382G	55.07	74.00	-18.93	8.38	3	Vertical	241	1.01	-	46.69	31.11	6.50	29.23

**BT-LE(1Mbps)**

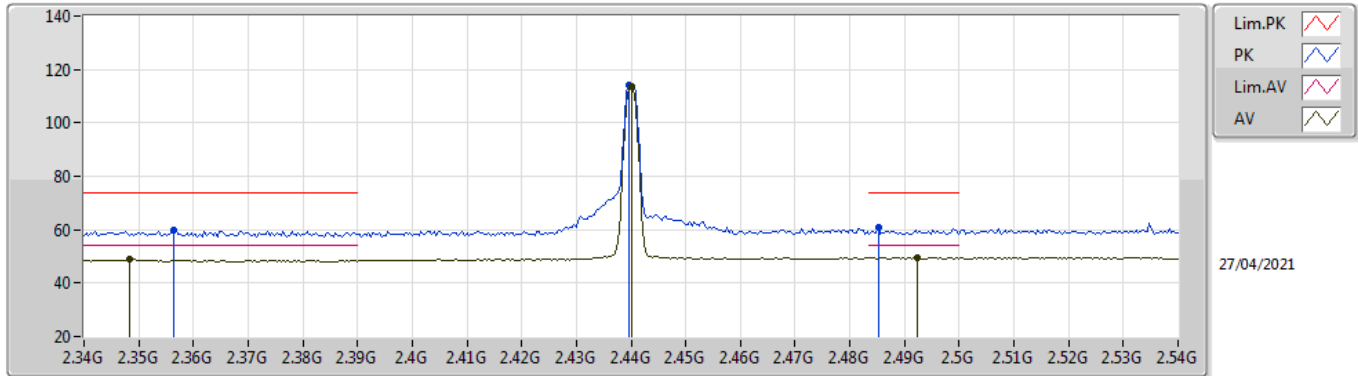
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80389G	38.09	54.00	-15.91	8.38	3	Horizontal	260	1.49	-	29.71	31.11	6.50	29.23
PK	4.80467G	48.15	74.00	-25.85	8.38	3	Horizontal	260	1.49	-	39.77	31.11	6.50	29.23

**BT-LE(1Mbps)**

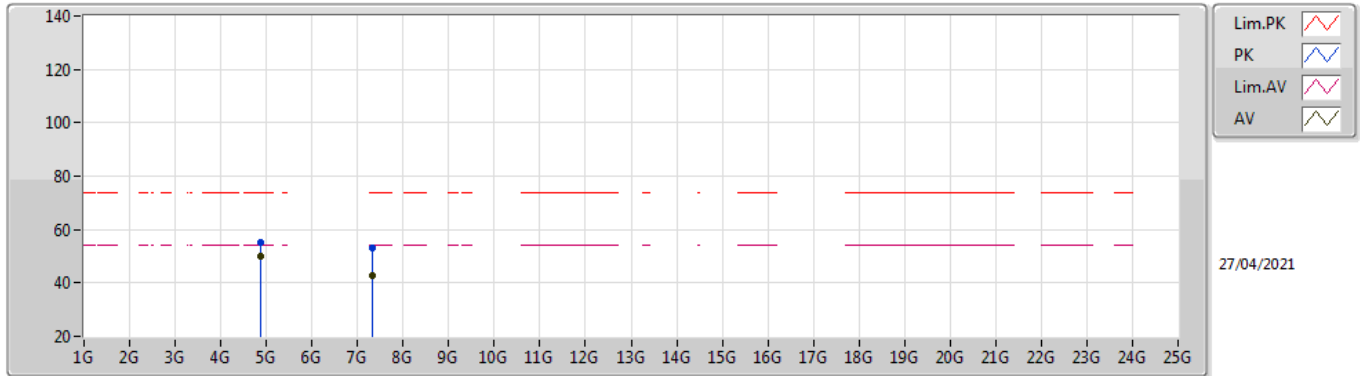
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3484G	48.76	54.00	-5.24	32.05	3	Vertical	206	1.80	-	16.71	27.80	4.25	-
AV	2.44G	113.51	Inf	-Inf	31.94	3	Vertical	206	1.80	-	81.57	27.60	4.34	-
AV	2.4924G	49.53	54.00	-4.47	32.07	3	Vertical	206	1.80	-	17.46	27.68	4.39	-
PK	2.3564G	59.95	74.00	-14.05	32.03	3	Vertical	206	1.80	-	27.92	27.77	4.26	-
PK	2.4396G	114.37	Inf	-Inf	31.94	3	Vertical	206	1.80	-	82.43	27.60	4.34	-
PK	2.4852G	60.65	74.00	-13.35	32.06	3	Vertical	206	1.80	-	28.59	27.67	4.39	-

### BT-LE(1Mbps)

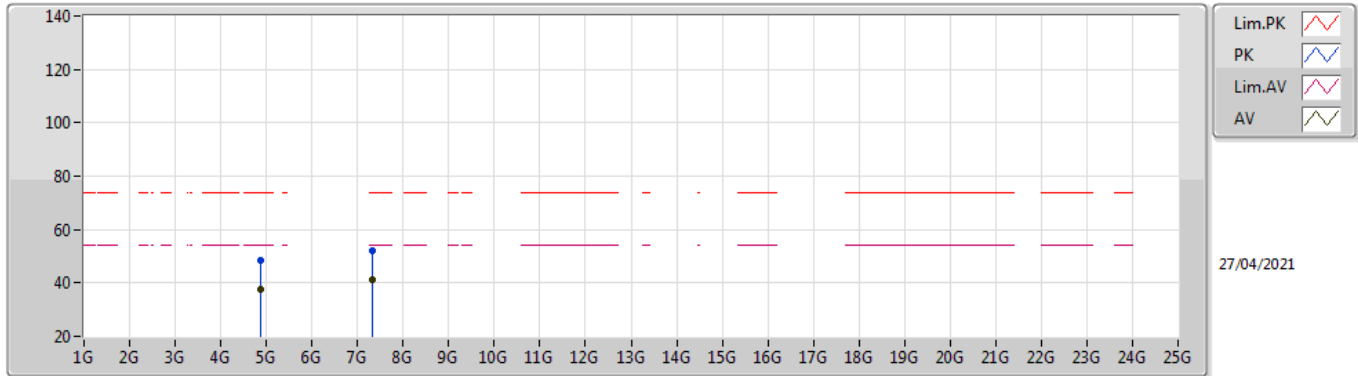
### 2440MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87995G	50.06	54.00	-3.94	8.57	3	Vertical	289	1.05	-	41.49	31.20	6.58	29.21
AV	7.31926G	42.86	54.00	-11.14	13.69	3	Vertical	351	1.58	-	29.17	36.26	7.60	30.17
PK	4.88021G	55.43	74.00	-18.57	8.57	3	Vertical	289	1.05	-	46.86	31.20	6.58	29.21
PK	7.31932G	52.92	74.00	-21.08	13.69	3	Vertical	351	1.58	-	39.23	36.26	7.60	30.17

### BT-LE(1Mbps)

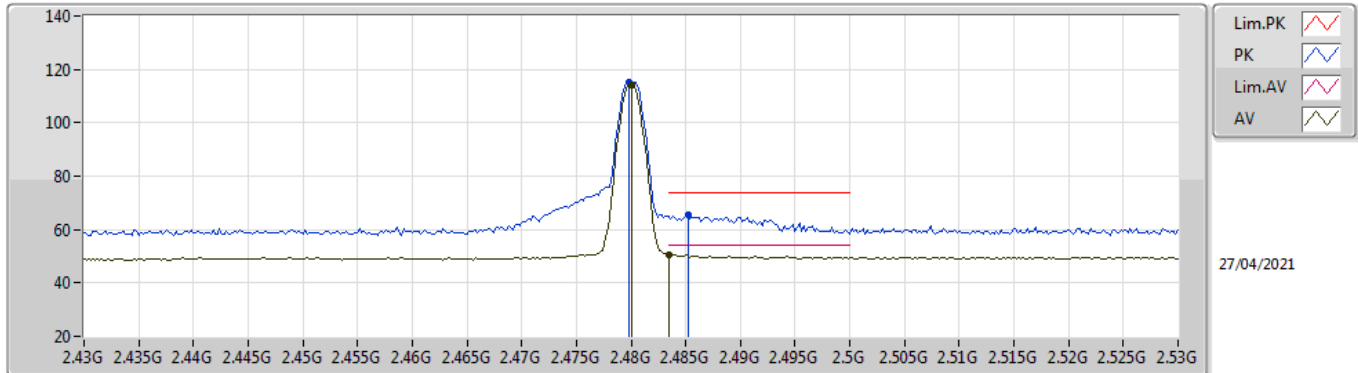
### 2440MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87971G	37.47	54.00	-16.53	8.57	3	Horizontal	37	1.64	-	28.90	31.20	6.58	29.21
AV	7.31798G	41.11	54.00	-12.89	13.69	3	Horizontal	334	1.78	-	27.42	36.26	7.60	30.17
PK	4.87999G	48.55	74.00	-25.45	8.57	3	Horizontal	37	1.64	-	39.98	31.20	6.58	29.21
PK	7.31966G	52.26	74.00	-21.74	13.69	3	Horizontal	334	1.78	-	38.57	36.26	7.60	30.17

**BT-LE(1Mbps)**

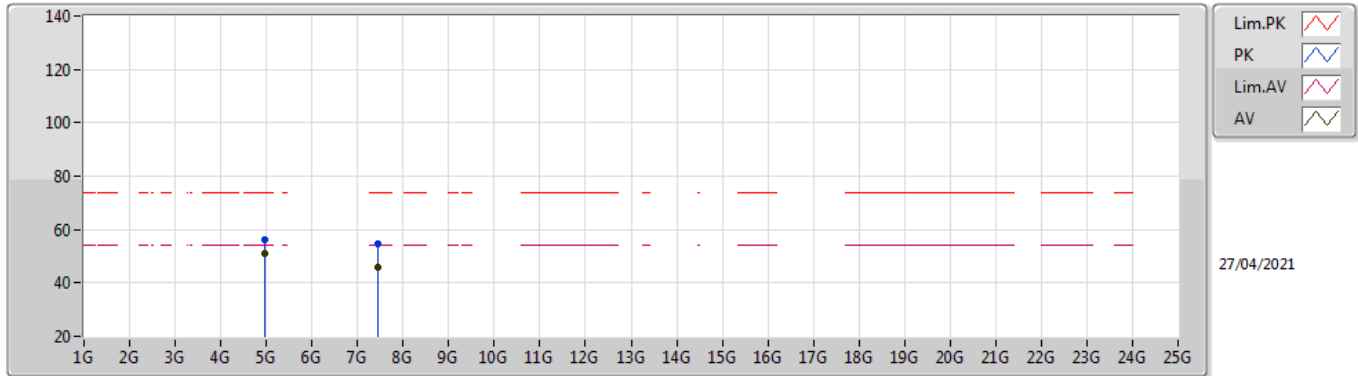
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	114.34	Inf	-Inf	32.04	3	Vertical	206	1.49	-	82.30	27.66	4.38	-
AV	2.4835G	50.47	54.00	-3.53	32.05	3	Vertical	206	1.49	-	18.42	27.67	4.38	-
PK	2.4798G	115.18	Inf	-Inf	32.04	3	Vertical	206	1.49	-	83.14	27.66	4.38	-
PK	2.4852G	65.74	74.00	-8.26	32.06	3	Vertical	206	1.49	-	33.68	27.67	4.39	-

### BT-LE(1Mbps)

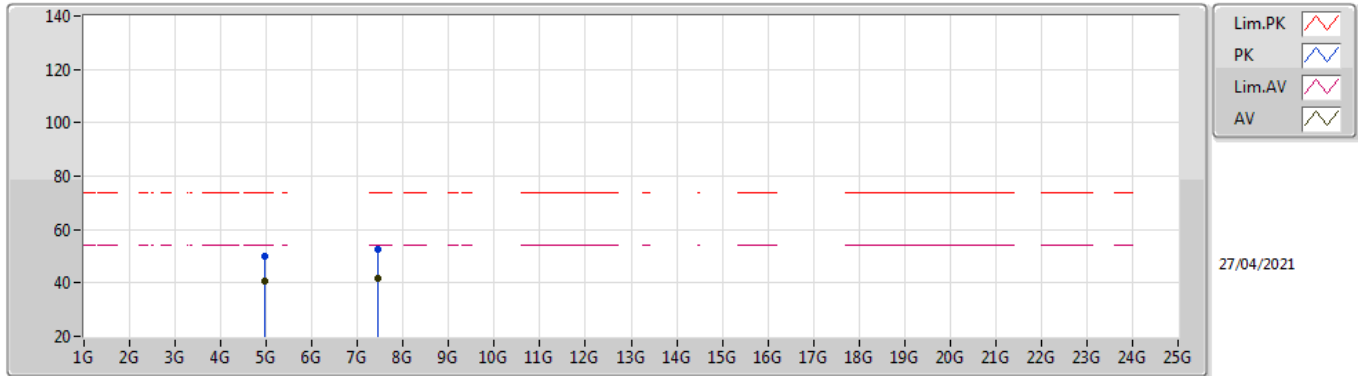
### 2480MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95998G	50.95	54.00	-3.05	8.82	3	Vertical	289	1.04	-	42.13	31.34	6.66	29.18
AV	7.43938G	46.00	54.00	-8.00	13.64	3	Vertical	181	1.12	-	32.36	36.26	7.64	30.26
PK	4.96012G	56.25	74.00	-17.75	8.82	3	Vertical	289	1.04	-	47.43	31.34	6.66	29.18
PK	7.44082G	54.47	74.00	-19.53	13.64	3	Vertical	181	1.12	-	40.83	36.26	7.64	30.26

### BT-LE(1Mbps)

### 2480MHz\_TX

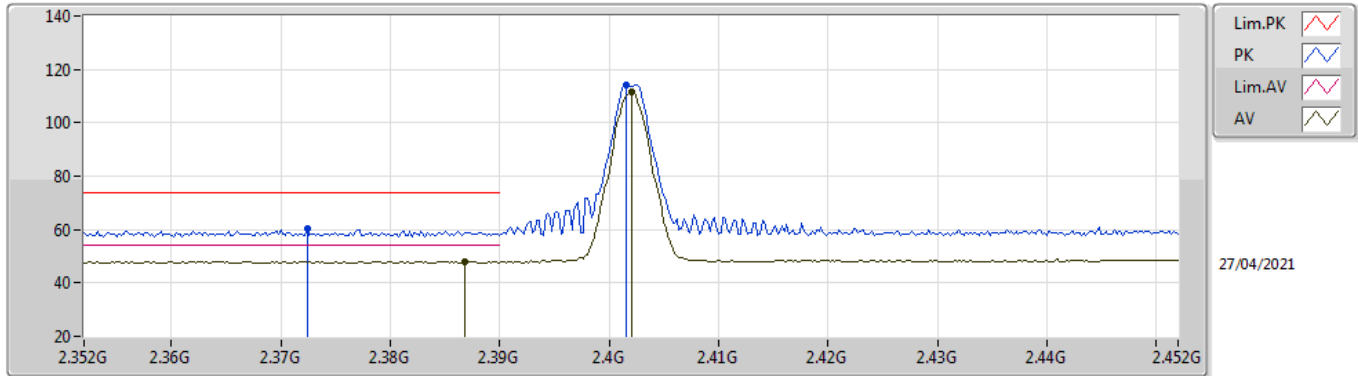


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95983G	40.70	54.00	-13.30	8.82	3	Horizontal	236	2.35	-	31.88	31.34	6.66	29.18
AV	7.43941G	41.84	54.00	-12.16	13.64	3	Horizontal	180	2.96	-	28.20	36.26	7.64	30.26
PK	4.95977G	49.90	74.00	-24.10	8.82	3	Horizontal	236	2.35	-	41.08	31.34	6.66	29.18
PK	7.43948G	52.45	74.00	-21.55	13.64	3	Horizontal	180	2.96	-	38.81	36.26	7.64	30.26



**BT-LE(2Mbps)**

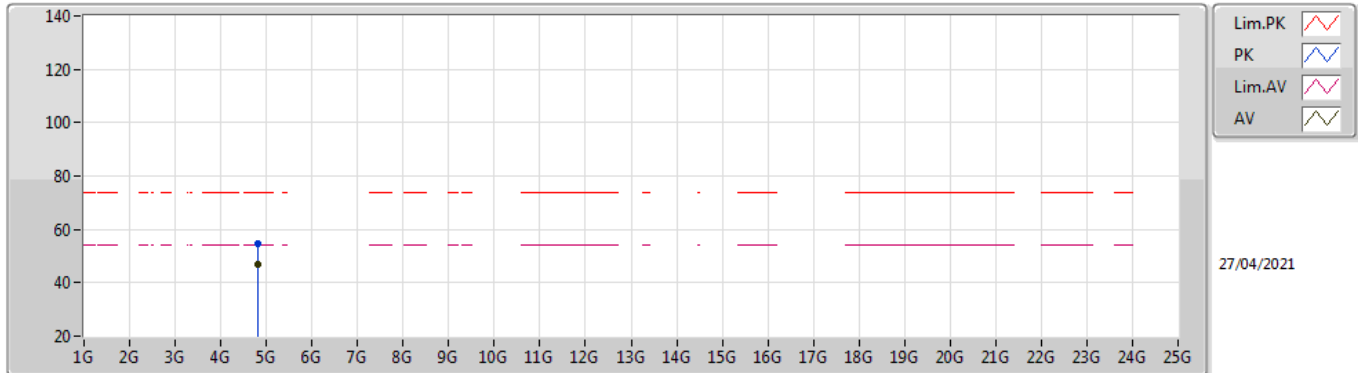
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3868G	48.15	54.00	-5.85	31.94	3	Vertical	206	1.71	-	16.21	27.65	4.29	-
AV	2.402G	111.57	Inf	-Inf	31.90	3	Vertical	206	1.71	-	79.67	27.60	4.30	-
PK	2.3724G	60.46	74.00	-13.54	31.98	3	Vertical	206	1.71	-	28.48	27.71	4.27	-
PK	2.4016G	114.01	Inf	-Inf	31.90	3	Vertical	206	1.71	-	82.11	27.60	4.30	-

**BT-LE(2Mbps)**

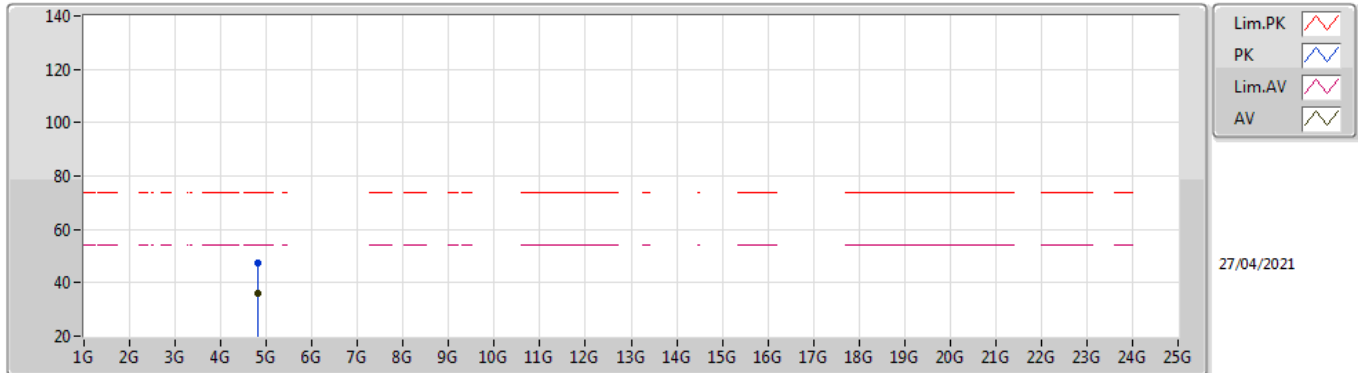
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8031G	46.82	54.00	-7.18	8.38	3	Vertical	240	1.11	-	38.44	31.11	6.50	29.23
PK	4.80309G	54.58	74.00	-19.42	8.38	3	Vertical	240	1.11	-	46.20	31.11	6.50	29.23

**BT-LE(2Mbps)**

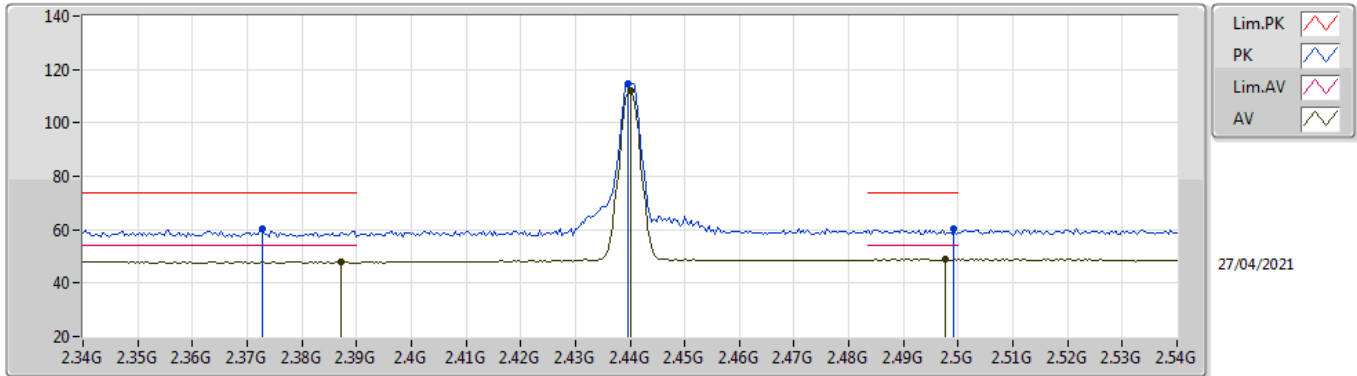
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80316G	36.29	54.00	-17.71	8.38	3	Horizontal	186	1.50	-	27.91	31.11	6.50	29.23
PK	4.80312G	47.17	74.00	-26.83	8.38	3	Horizontal	186	1.50	-	38.79	31.11	6.50	29.23

**BT-LE(2Mbps)**

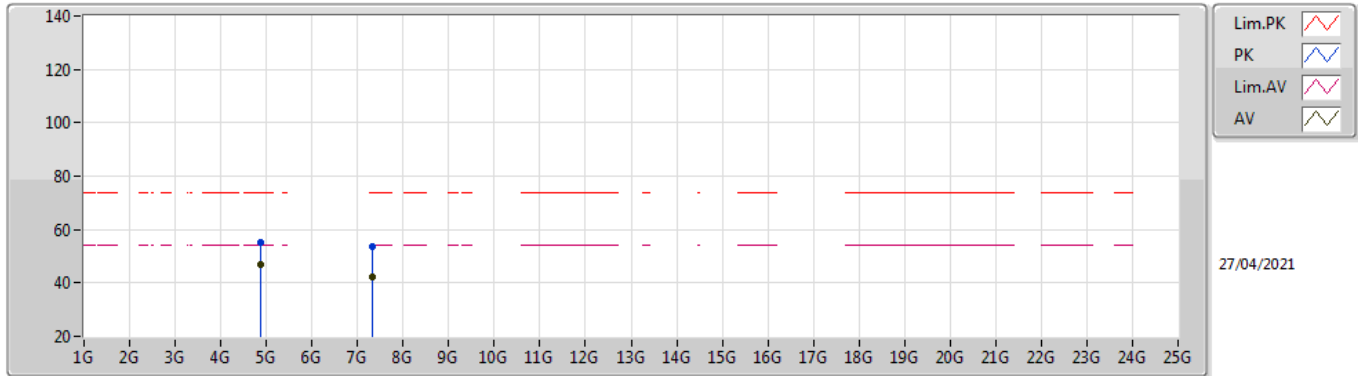
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3872G	48.16	54.00	-5.84	31.94	3	Vertical	206	1.82	-	16.22	27.65	4.29	-
AV	2.44G	112.18	Inf	-Inf	31.94	3	Vertical	206	1.82	-	80.24	27.60	4.34	-
AV	2.4976G	48.77	54.00	-5.23	32.10	3	Vertical	206	1.82	-	16.67	27.70	4.40	-
PK	2.3728G	60.19	74.00	-13.81	31.98	3	Vertical	206	1.82	-	28.21	27.71	4.27	-
PK	2.4396G	114.63	Inf	-Inf	31.94	3	Vertical	206	1.82	-	82.69	27.60	4.34	-
PK	2.4992G	60.12	74.00	-13.88	32.10	3	Vertical	206	1.82	-	28.02	27.70	4.40	-

**BT-LE(2Mbps)**

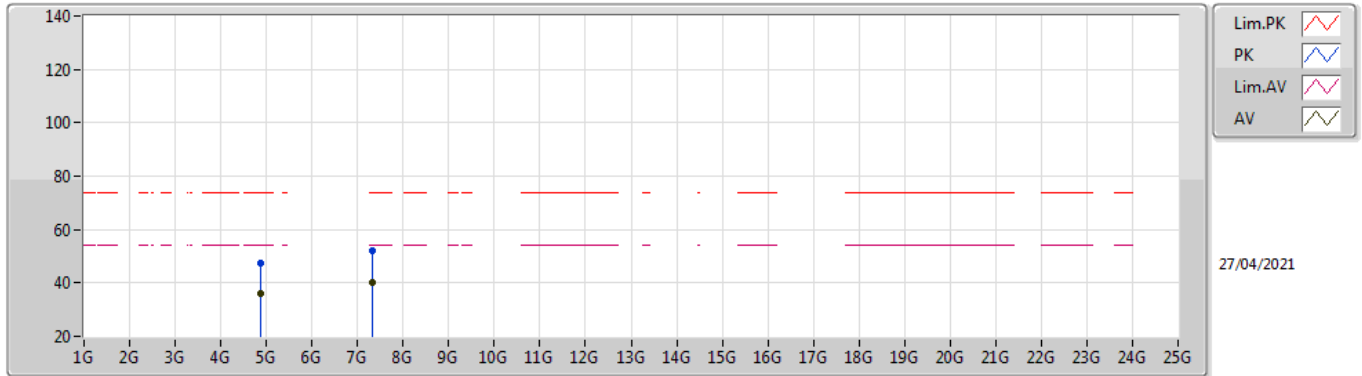
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88038G	46.72	54.00	-7.28	8.57	3	Vertical	288	1.09	-	38.15	31.20	6.58	29.21
AV	7.31869G	42.37	54.00	-11.63	13.69	3	Vertical	231	1.78	-	28.68	36.26	7.60	30.17
PK	4.87893G	55.04	74.00	-18.96	8.57	3	Vertical	288	1.09	-	46.47	31.20	6.58	29.21
PK	7.3186G	53.47	74.00	-20.53	13.69	3	Vertical	231	1.78	-	39.78	36.26	7.60	30.17

**BT-LE(2Mbps)**

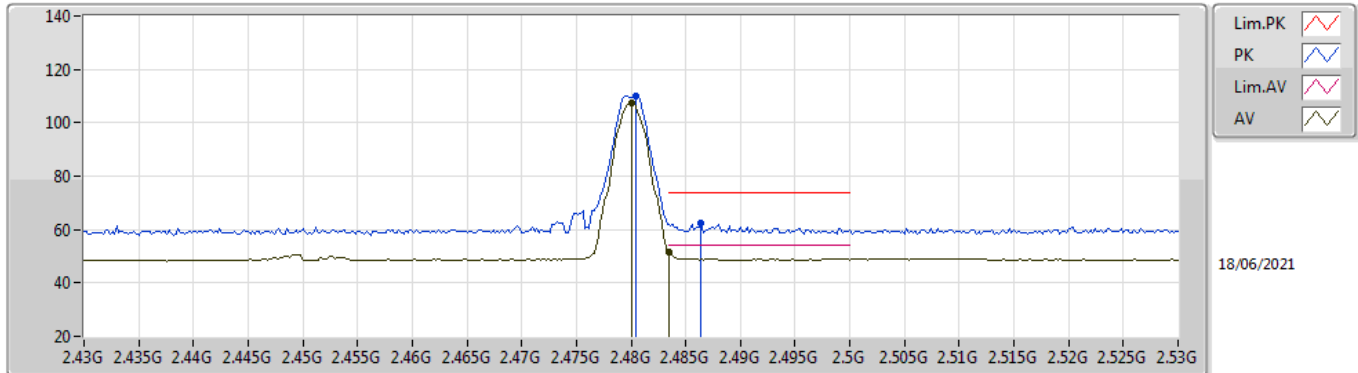
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87894G	35.98	54.00	-18.02	8.57	3	Horizontal	281	1.49	-	27.41	31.20	6.58	29.21
AV	7.32142G	40.31	54.00	-13.69	13.69	3	Horizontal	182	2.55	-	26.62	36.26	7.60	30.17
PK	4.8808G	47.58	74.00	-26.42	8.57	3	Horizontal	281	1.49	-	39.01	31.20	6.58	29.21
PK	7.32228G	52.13	74.00	-21.87	13.69	3	Horizontal	182	2.55	-	38.44	36.26	7.60	30.17

**BT-LE(2Mbps)**

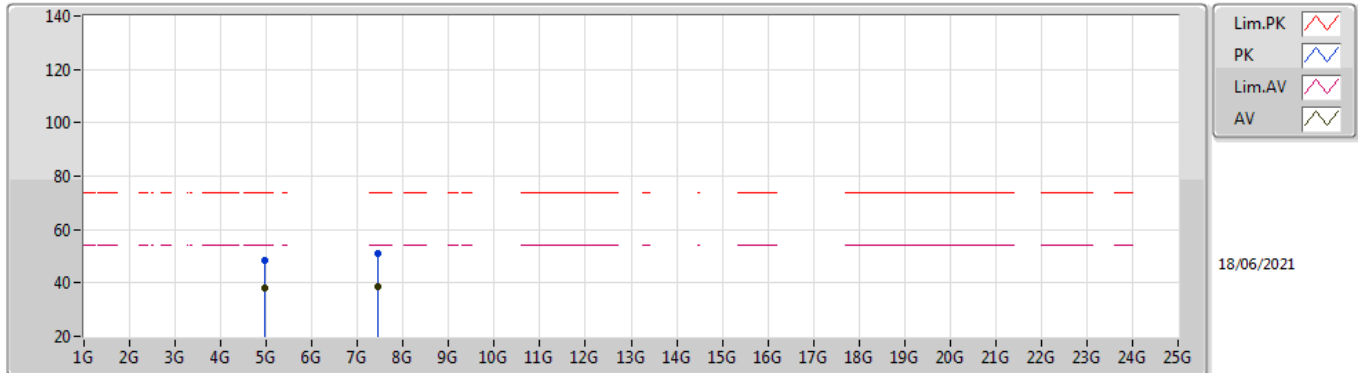
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	107.44	Inf	-Inf	32.04	3	Vertical	205	2.04	-	75.40	27.66	4.38	-
AV	2.4835G	51.58	54.00	-2.42	32.05	3	Vertical	205	2.04	-	19.53	27.67	4.38	-
PK	2.4804G	109.92	Inf	-Inf	32.04	3	Vertical	205	2.04	-	77.88	27.66	4.38	-
PK	2.4864G	62.19	74.00	-11.81	32.06	3	Vertical	205	2.04	-	30.13	27.67	4.39	-

**BT-LE(2Mbps)**

**2480MHz\_TX**

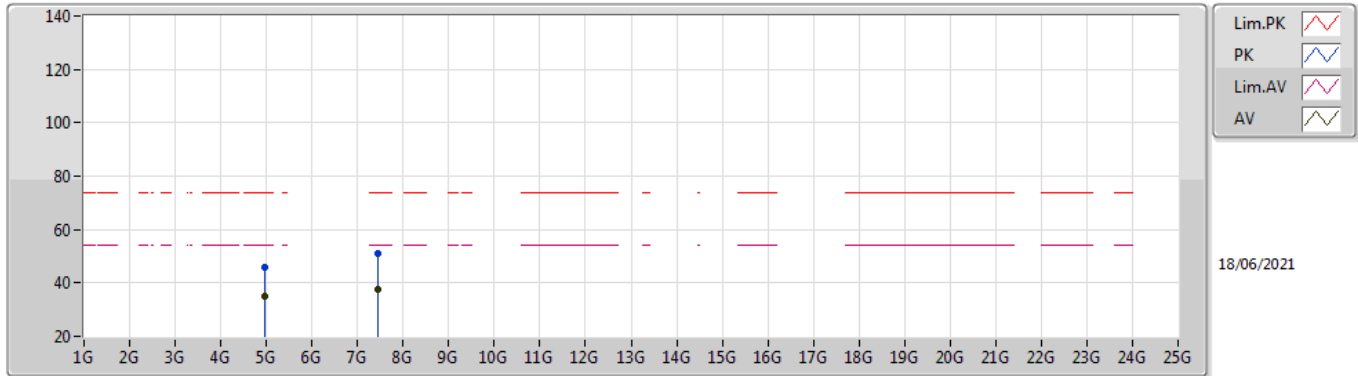


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96013G	38.02	54.00	-15.98	8.82	3	Vertical	244	1.06	-	29.20	31.34	6.66	29.18
AV	7.44194G	38.77	54.00	-15.23	13.65	3	Vertical	134	1.49	-	25.12	36.27	7.64	30.26
PK	4.95984G	48.54	74.00	-25.46	8.82	3	Vertical	244	1.06	-	39.72	31.34	6.66	29.18
PK	7.44008G	50.82	74.00	-23.18	13.64	3	Vertical	134	1.49	-	37.18	36.26	7.64	30.26



**BT-LE(2Mbps)**

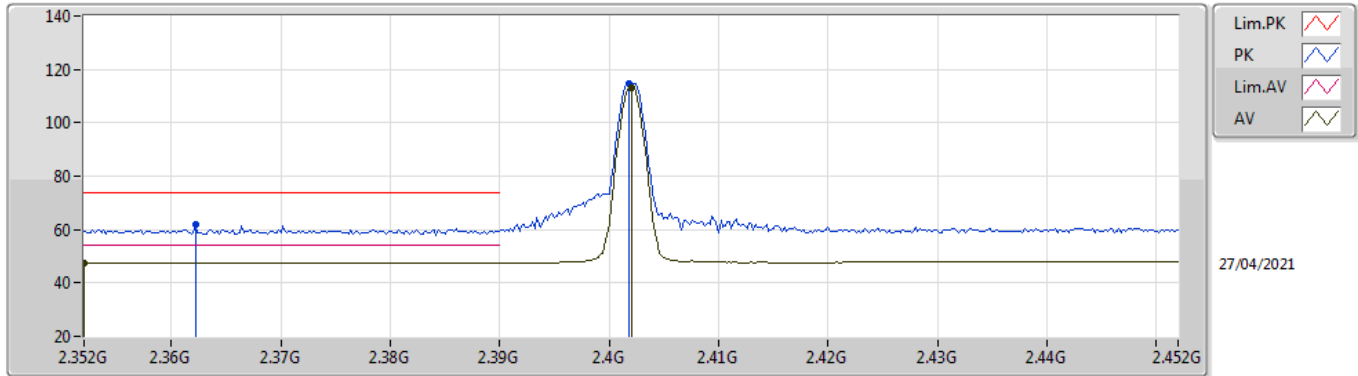
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95983G	34.85	54.00	-19.15	8.82	3	Horizontal	46	1.44	-	26.03	31.34	6.66	29.18
AV	7.44211G	37.62	54.00	-16.38	13.65	3	Horizontal	278	2.24	-	23.97	36.27	7.64	30.26
PK	4.95884G	45.93	74.00	-28.07	8.82	3	Horizontal	46	1.44	-	37.11	31.34	6.66	29.18
PK	7.44223G	50.84	74.00	-23.16	13.65	3	Horizontal	278	2.24	-	37.19	36.27	7.64	30.26

**BT-LE(125kbps)**

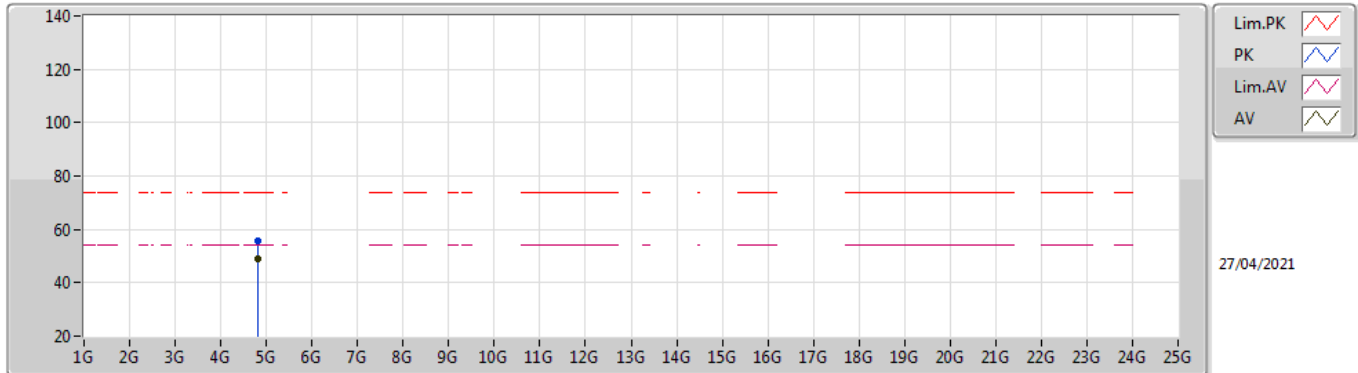
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.352G	47.34	54.00	-6.66	32.04	3	Vertical	205	1.71	-	15.30	27.79	4.25	-
AV	2.402G	113.22	Inf	-Inf	31.90	3	Vertical	205	1.71	-	81.32	27.60	4.30	-
PK	2.3622G	61.67	74.00	-12.33	32.01	3	Vertical	205	1.71	-	29.66	27.75	4.26	-
PK	2.4018G	114.49	Inf	-Inf	31.90	3	Vertical	205	1.71	-	82.59	27.60	4.30	-

**BT-LE(125kbps)**

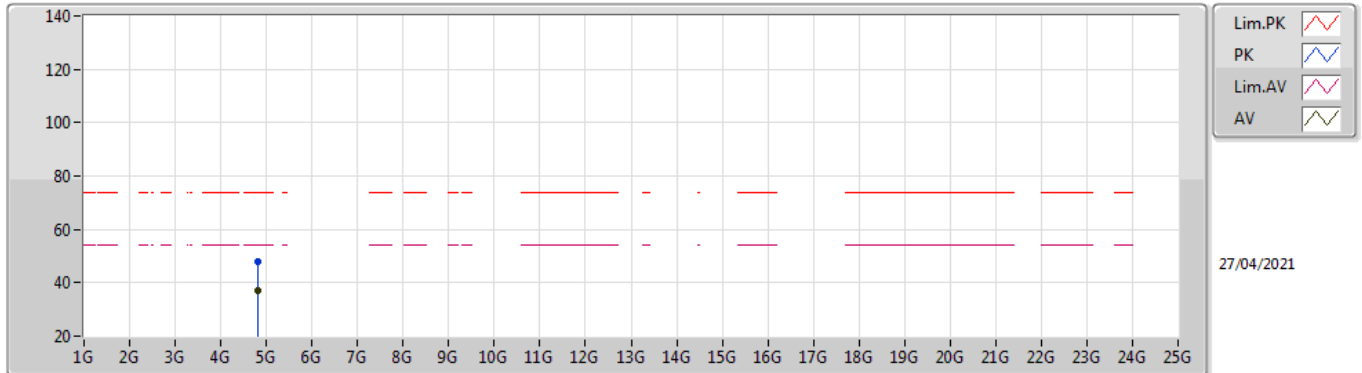
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80392G	48.79	54.00	-5.21	8.38	3	Vertical	241	1.22	-	40.41	31.11	6.50	29.23
PK	4.80386G	55.61	74.00	-18.39	8.38	3	Vertical	241	1.22	-	47.23	31.11	6.50	29.23

**BT-LE(125kbps)**

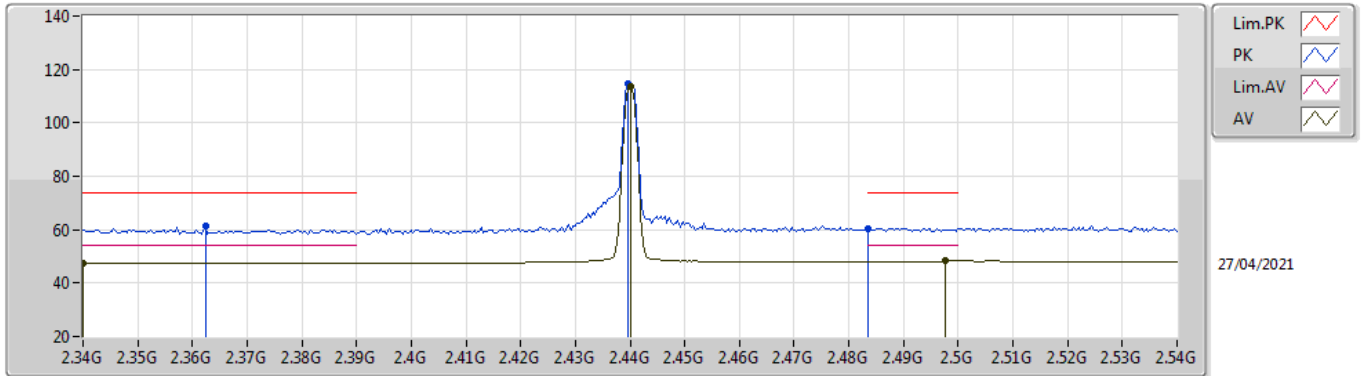
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80375G	36.83	54.00	-17.17	8.38	3	Horizontal	39	1.87	-	28.45	31.11	6.50	29.23
PK	4.80428G	48.18	74.00	-25.82	8.38	3	Horizontal	39	1.87	-	39.80	31.11	6.50	29.23

**BT-LE(125kbps)**

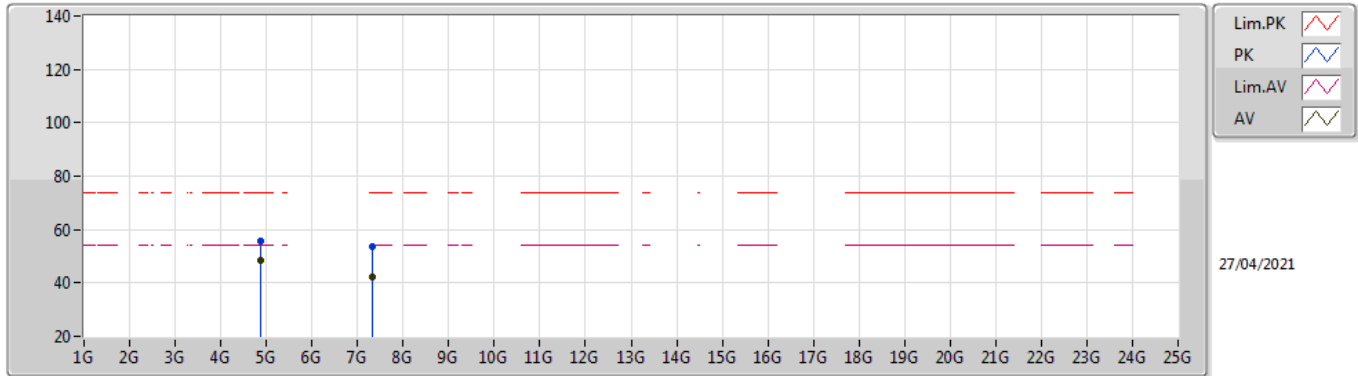
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.34G	47.46	54.00	-6.54	32.06	3	Vertical	207	1.81	-	15.40	27.82	4.24	-
AV	2.44G	113.46	Inf	-Inf	31.94	3	Vertical	207	1.81	-	81.52	27.60	4.34	-
AV	2.4976G	48.19	54.00	-5.81	32.10	3	Vertical	207	1.81	-	16.09	27.70	4.40	-
PK	2.3624G	61.55	74.00	-12.45	32.01	3	Vertical	207	1.81	-	29.54	27.75	4.26	-
PK	2.4396G	114.55	Inf	-Inf	31.94	3	Vertical	207	1.81	-	82.61	27.60	4.34	-
PK	2.4835G	60.57	74.00	-13.43	32.05	3	Vertical	207	1.81	-	28.52	27.67	4.38	-

**BT-LE(125kbps)**

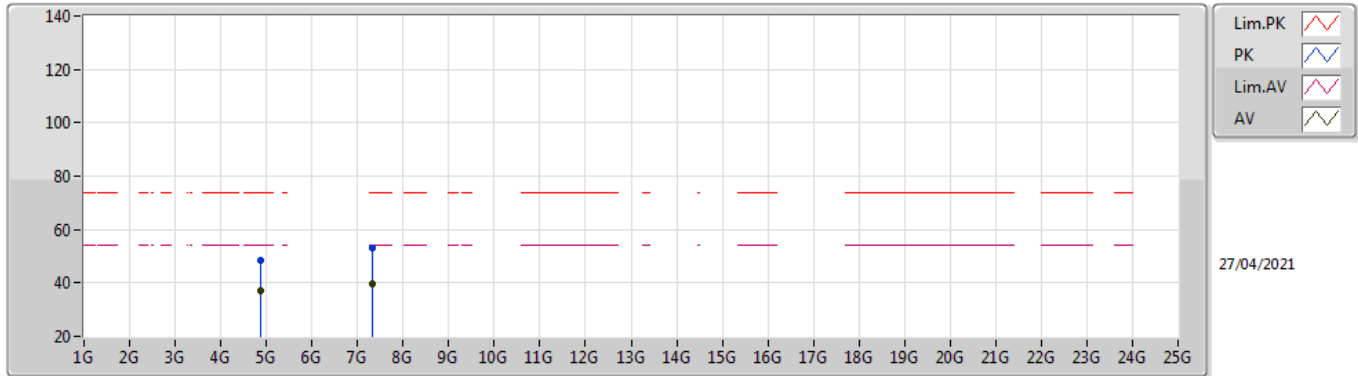
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88002G	48.59	54.00	-5.41	8.57	3	Vertical	282	1.10	-	40.02	31.20	6.58	29.21
AV	7.31936G	42.03	54.00	-11.97	13.69	3	Vertical	231	1.58	-	28.34	36.26	7.60	30.17
PK	4.8799G	55.47	74.00	-18.53	8.57	3	Vertical	282	1.10	-	46.90	31.20	6.58	29.21
PK	7.3209G	53.43	74.00	-20.57	13.69	3	Vertical	231	1.58	-	39.74	36.26	7.60	30.17

**BT-LE(125kbps)**

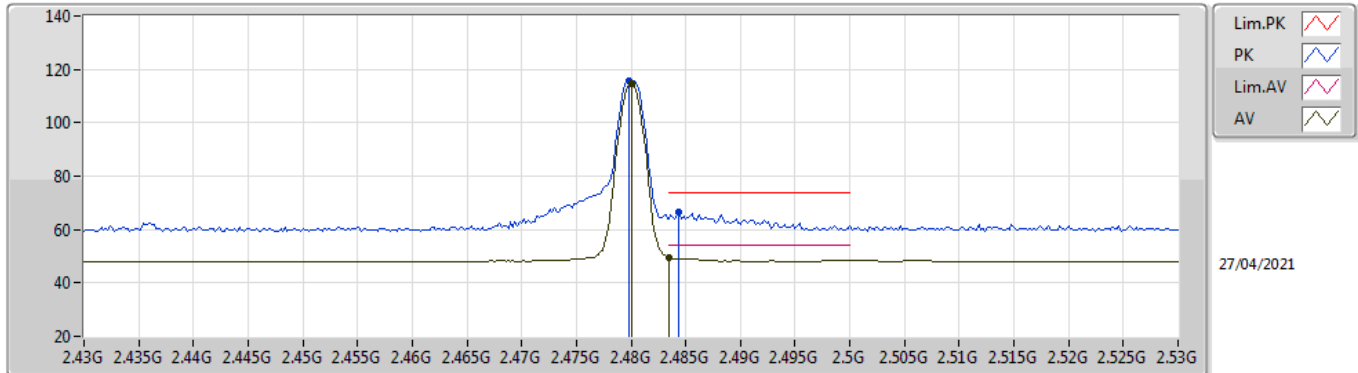
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88013G	37.07	54.00	-16.93	8.57	3	Horizontal	38	1.43	-	28.50	31.20	6.58	29.21
AV	7.32071G	39.88	54.00	-14.12	13.69	3	Horizontal	271	2.44	-	26.19	36.26	7.60	30.17
PK	4.87941G	48.36	74.00	-25.64	8.57	3	Horizontal	38	1.43	-	39.79	31.20	6.58	29.21
PK	7.31921G	53.02	74.00	-20.98	13.69	3	Horizontal	271	2.44	-	39.33	36.26	7.60	30.17

**BT-LE(125kbps)**

**2480MHz\_TX**

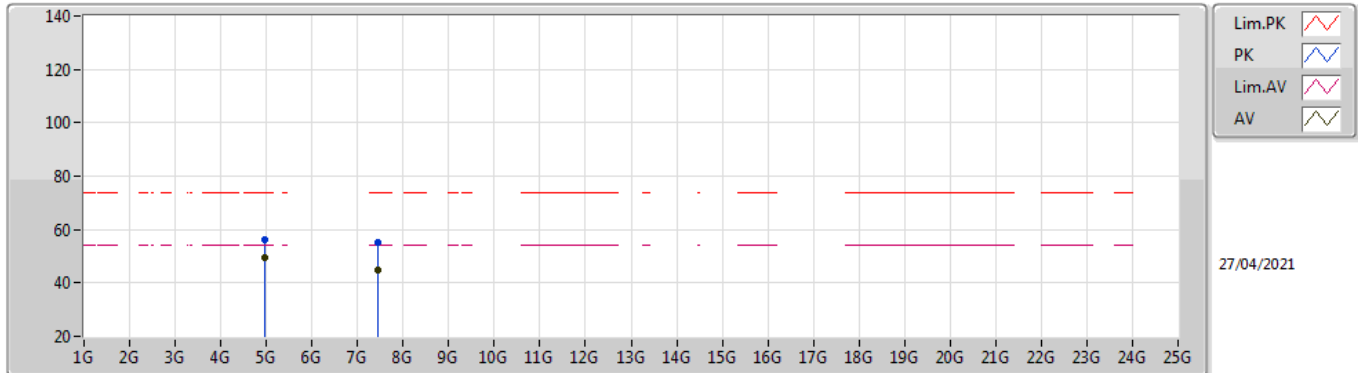


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	114.40	Inf	-Inf	32.04	3	Vertical	206	1.48	-	82.36	27.66	4.38	-
AV	2.4835G	49.51	54.00	-4.49	32.05	3	Vertical	206	1.48	-	17.46	27.67	4.38	-
PK	2.4798G	115.47	Inf	-Inf	32.04	3	Vertical	206	1.48	-	83.43	27.66	4.38	-
PK	2.4844G	66.62	74.00	-7.38	32.05	3	Vertical	206	1.48	-	34.57	27.67	4.38	-



**BT-LE(125kbps)**

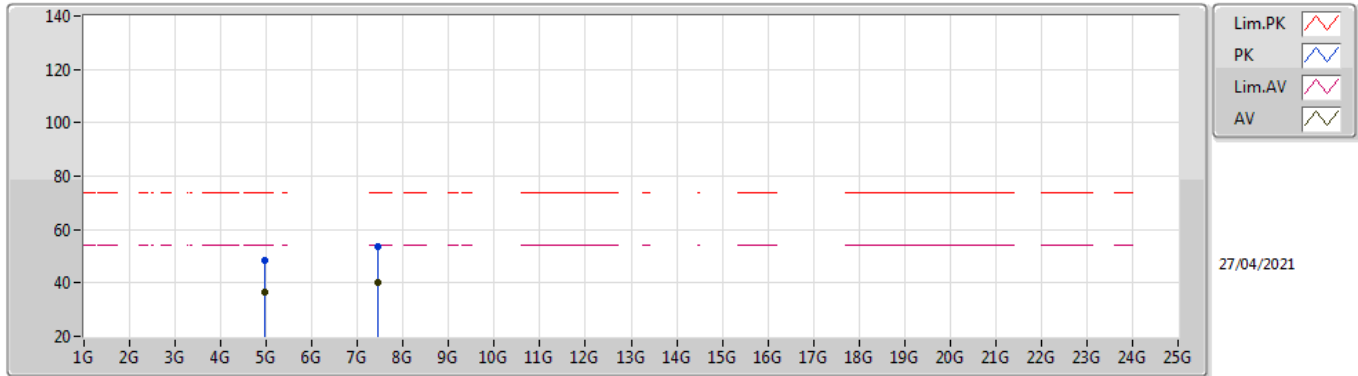
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96004G	49.43	54.00	-4.57	8.82	3	Vertical	289	1.03	-	40.61	31.34	6.66	29.18
AV	7.44059G	44.62	54.00	-9.38	13.64	3	Vertical	181	1.34	-	30.98	36.26	7.64	30.26
PK	4.96004G	56.23	74.00	-17.77	8.82	3	Vertical	289	1.03	-	47.41	31.34	6.66	29.18
PK	7.43937G	54.99	74.00	-19.01	13.64	3	Vertical	181	1.34	-	41.35	36.26	7.64	30.26

### BT-LE(125kbps)

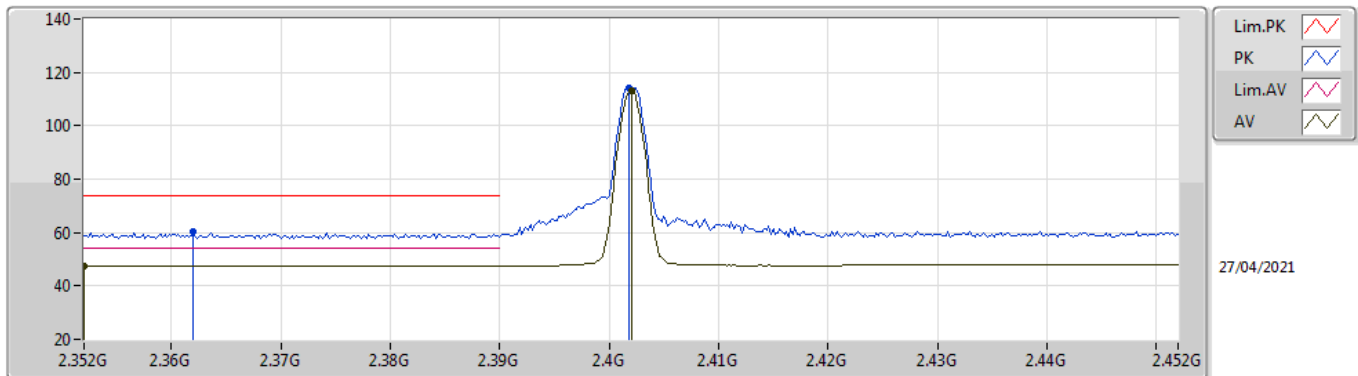
### 2480MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95986G	36.51	54.00	-17.49	8.82	3	Horizontal	36	1.43	-	27.69	31.34	6.66	29.18
AV	7.44064G	40.38	54.00	-13.62	13.64	3	Horizontal	208	2.64	-	26.74	36.26	7.64	30.26
PK	4.9604G	48.30	74.00	-25.70	8.82	3	Horizontal	36	1.43	-	39.48	31.34	6.66	29.18
PK	7.43922G	53.47	74.00	-20.53	13.64	3	Horizontal	208	2.64	-	39.83	36.26	7.64	30.26

**BT-LE(500kbps)**

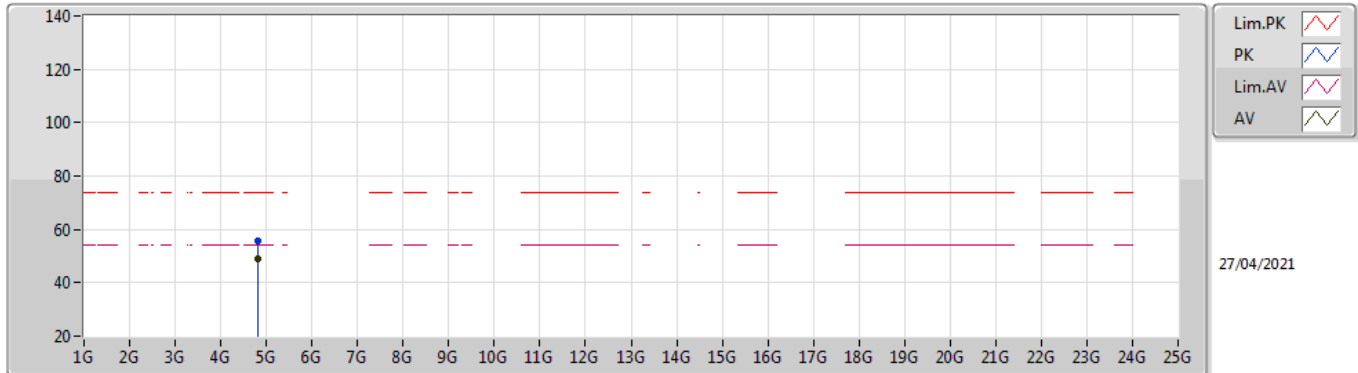
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.352G	47.34	54.00	-6.66	32.04	3	Vertical	206	1.71	-	15.30	27.79	4.25	-
AV	2.402G	113.07	Inf	-Inf	31.90	3	Vertical	206	1.71	-	81.17	27.60	4.30	-
PK	2.362G	60.18	74.00	-13.82	32.01	3	Vertical	206	1.71	-	28.17	27.75	4.26	-
PK	2.4018G	114.36	Inf	-Inf	31.90	3	Vertical	206	1.71	-	82.46	27.60	4.30	-

**BT-LE(500kbps)**

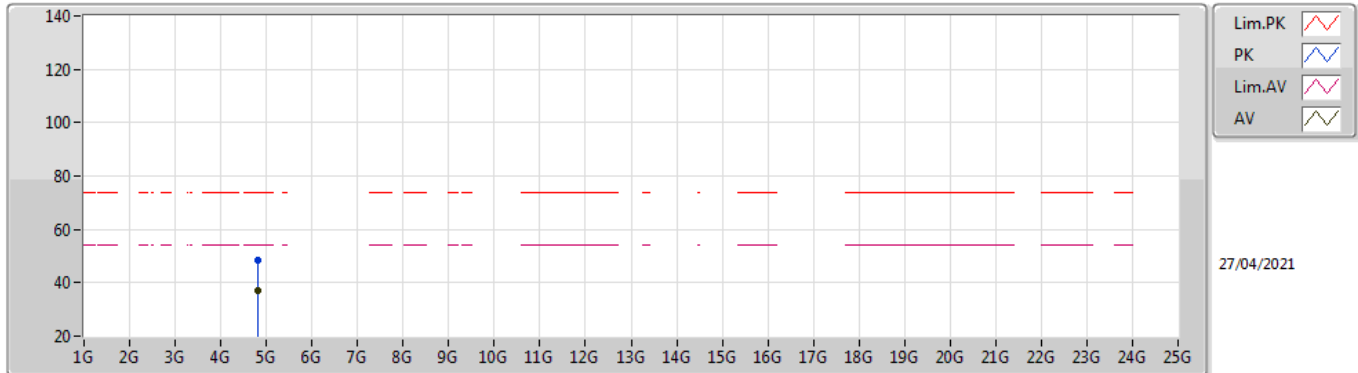
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80396G	49.12	54.00	-4.88	8.38	3	Vertical	242	1.22	-	40.74	31.11	6.50	29.23
PK	4.80421G	55.88	74.00	-18.12	8.38	3	Vertical	242	1.22	-	47.50	31.11	6.50	29.23

**BT-LE(500kbps)**

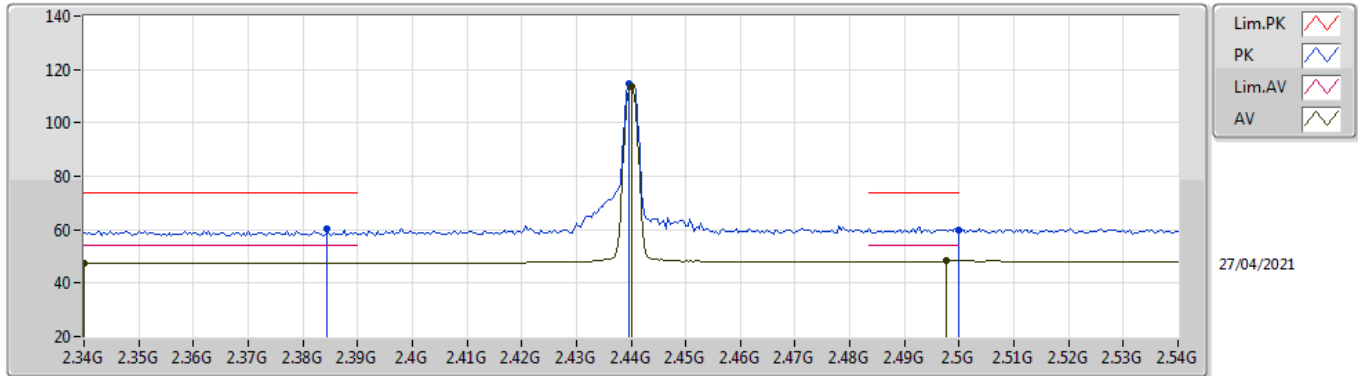
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80372G	37.14	54.00	-16.86	8.38	3	Horizontal	40	1.59	-	28.76	31.11	6.50	29.23
PK	4.80352G	48.38	74.00	-25.62	8.38	3	Horizontal	40	1.59	-	40.00	31.11	6.50	29.23

**BT-LE(500kbps)**

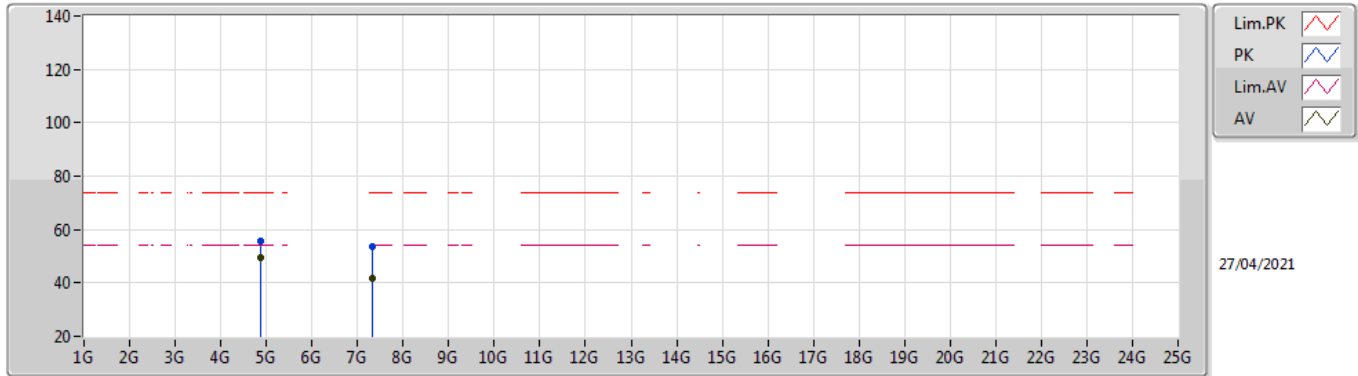
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.34G	47.46	54.00	-6.54	32.06	3	Vertical	206	1.80	-	15.40	27.82	4.24	-
AV	2.44G	113.56	Inf	-Inf	31.94	3	Vertical	206	1.80	-	81.62	27.60	4.34	-
AV	2.4976G	48.19	54.00	-5.81	32.10	3	Vertical	206	1.80	-	16.09	27.70	4.40	-
PK	2.3844G	60.40	74.00	-13.60	31.94	3	Vertical	206	1.80	-	28.46	27.66	4.28	-
PK	2.4396G	114.65	Inf	-Inf	31.94	3	Vertical	206	1.80	-	82.71	27.60	4.34	-
PK	2.5G	60.04	74.00	-13.96	32.10	3	Vertical	206	1.80	-	27.94	27.70	4.40	-

**BT-LE(500kbps)**

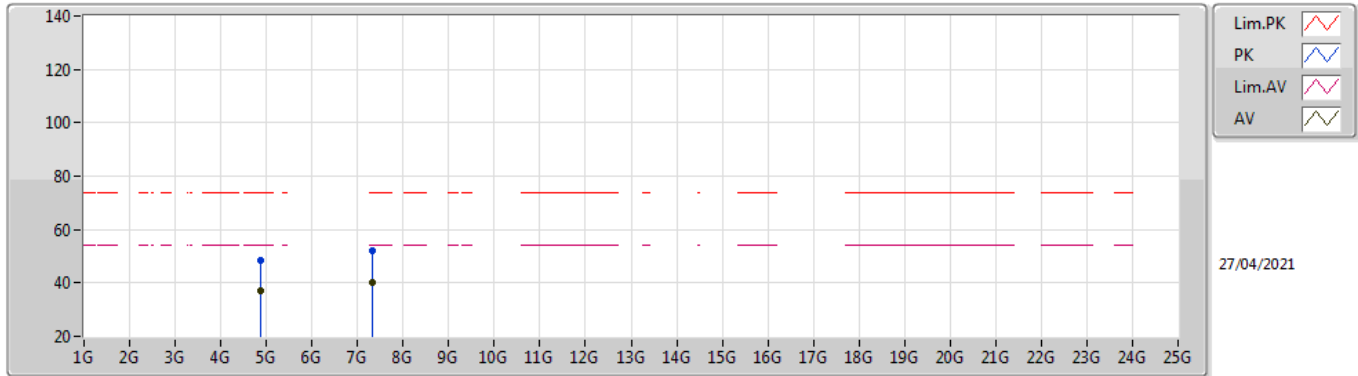
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87996G	49.27	54.00	-4.73	8.57	3	Vertical	289	1.07	-	40.70	31.20	6.58	29.21
AV	7.32064G	41.59	54.00	-12.41	13.69	3	Vertical	352	1.52	-	27.90	36.26	7.60	30.17
PK	4.88018G	55.85	74.00	-18.15	8.57	3	Vertical	289	1.07	-	47.28	31.20	6.58	29.21
PK	7.31931G	53.38	74.00	-20.62	13.69	3	Vertical	352	1.52	-	39.69	36.26	7.60	30.17

**BT-LE(500kbps)**

**2440MHz\_TX**

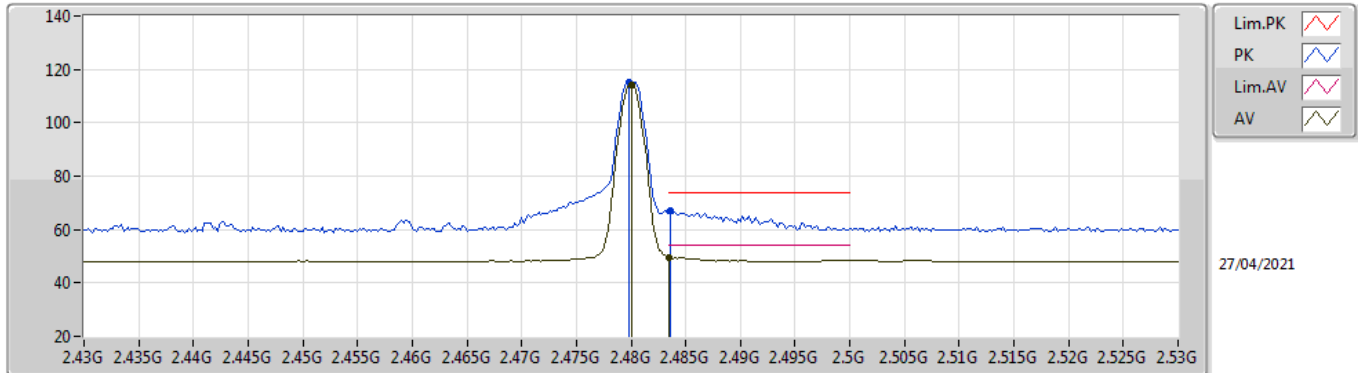


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87984G	37.07	54.00	-16.93	8.57	3	Horizontal	37	1.43	-	28.50	31.20	6.58	29.21
AV	7.32064G	40.10	54.00	-13.90	13.69	3	Horizontal	171	2.68	-	26.41	36.26	7.60	30.17
PK	4.87983G	48.44	74.00	-25.56	8.57	3	Horizontal	37	1.43	-	39.87	31.20	6.58	29.21
PK	7.32085G	52.32	74.00	-21.68	13.69	3	Horizontal	171	2.68	-	38.63	36.26	7.60	30.17



**BT-LE(500kbps)**

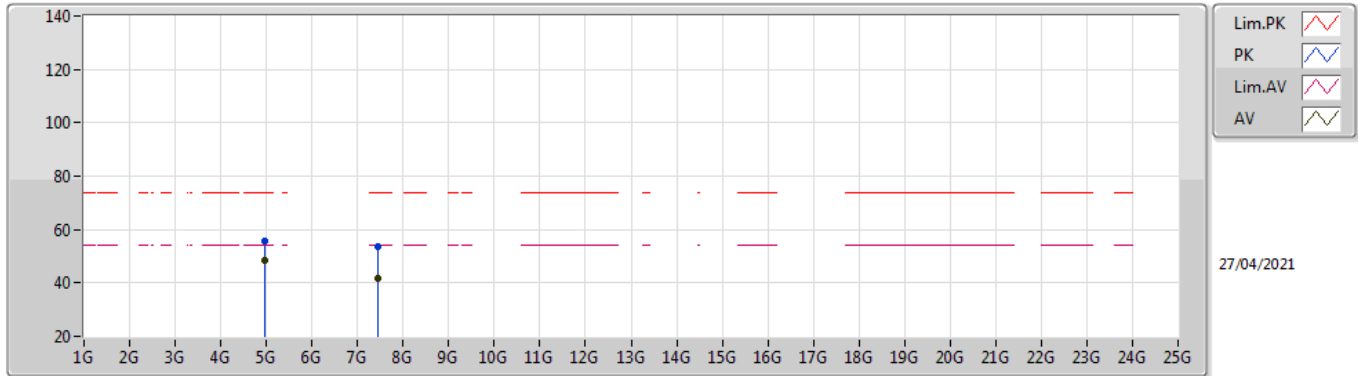
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	114.32	Inf	-Inf	32.04	3	Vertical	206	1.91	-	82.28	27.66	4.38	-
AV	2.4835G	49.51	54.00	-4.49	32.05	3	Vertical	206	1.91	-	17.46	27.67	4.38	-
PK	2.4798G	115.39	Inf	-Inf	32.04	3	Vertical	206	1.91	-	83.35	27.66	4.38	-
PK	2.4836G	67.11	74.00	-6.89	32.05	3	Vertical	206	1.91	-	35.06	27.67	4.38	-

**BT-LE(500kbps)**

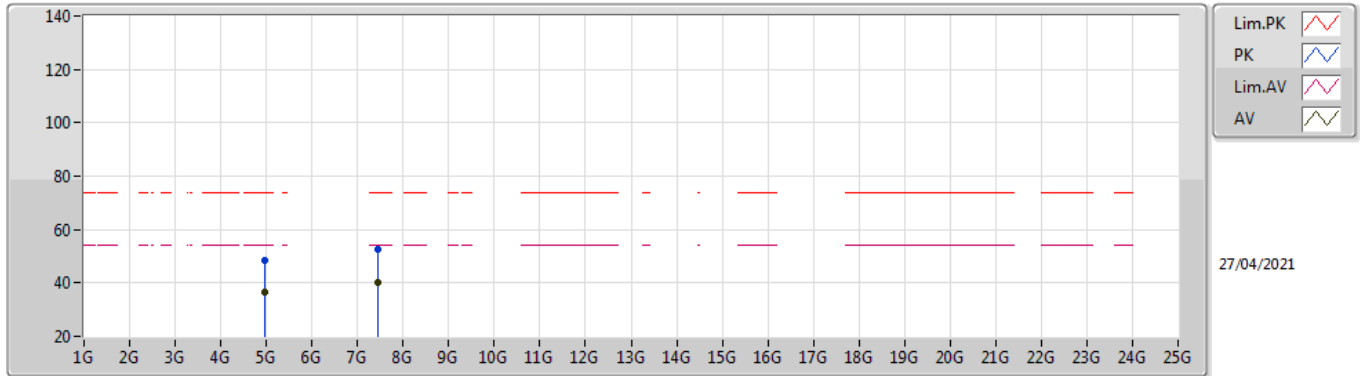
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95997G	48.65	54.00	-5.35	8.82	3	Vertical	288	1.23	-	39.83	31.34	6.66	29.18
AV	7.44053G	41.76	54.00	-12.24	13.64	3	Vertical	166	1.34	-	28.12	36.26	7.64	30.26
PK	4.95997G	55.71	74.00	-18.29	8.82	3	Vertical	288	1.23	-	46.89	31.34	6.66	29.18
PK	7.43925G	53.66	74.00	-20.34	13.64	3	Vertical	166	1.34	-	40.02	36.26	7.64	30.26

**BT-LE(500kbps)**

**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95969G	36.75	54.00	-17.25	8.82	3	Horizontal	36	1.48	-	27.93	31.34	6.66	29.18
AV	7.43938G	40.26	54.00	-13.74	13.64	3	Horizontal	208	2.84	-	26.62	36.26	7.64	30.26
PK	4.96061G	48.36	74.00	-25.64	8.82	3	Horizontal	36	1.48	-	39.54	31.34	6.66	29.18
PK	7.44102G	52.73	74.00	-21.27	13.64	3	Horizontal	208	2.84	-	39.09	36.26	7.64	30.26