



# RADIO TEST REPORT

**FCC ID** : 2AYRA-08436  
**Equipment** : Linksys Velop Pro 6E  
**Brand Name** : LINKSYS  
**Model Name** : MX6200, MX62EC, MX62WH, MX62MS, SPNMX62, MX6203, MX6202, MX6201, MX62  
**Applicant** : Linksys USA, Inc.  
121 Theory, Irvine, CA. 92617, USA  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Nov. 28, 2022, and testing was started from Nov. 29, 2022 and completed on Feb. 16, 2023. 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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### History of this test report

Report No.	Version	Description	Issued Date
FR2N2822AB	01	Initial issue of report	Mar. 22, 2023
FR2N2822AB	02	Changing the address of Applicant to "121 Theory, Irvine, CA. 92617, USA" from "121 Theory, Suite 150, Irvine, CA. 92617, USA".	Mar. 30, 2023



## Summary of Test Result

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

**Declaration of Conformity:**

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

**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: Cathy Chiu**



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

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

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

Note:

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

### 1.1.2 Antenna Information

Ant.	Port				Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz	6GHz	Bluetooth					
1	1	1	-	-	Galtronics	02102140-07691-4	PCB Antenna	I-PEX	Note1
2	2	2	-	-	Galtronics	02102140-07691-3	PCB Antenna	I-PEX	
3	-	-	1	-	Galtronics	02102475-07691-3	PCB Antenna	I-PEX	
4	-	-	2	-	Galtronics	02102475-07691-4	PCB Antenna	I-PEX	
5	-	-	-	1	Galtronics	02102073-07691	PCB Antenna	I-PEX	

Note1:

Ant.	Antenna Gain (dBi)									
	WLAN 2.4GHz	WLAN 5GHz UNII 1	WLAN 5GHz UNII 2A	WLAN 5GHz UNII 2C	WLAN 5GHz UNII 3	WLAN 6GHz UNII 5	WLAN 6GHz UNII 6	WLAN 6GHz UNII 7	WLAN 6GHz UNII 8	Bluetooth
1	2.626	3.600	3.535	3.323	3.333	-	-	-	-	-
2	2.626	3.600	3.535	3.323	3.333	-	-	-	-	-
3	-	-	-	-	-	3.076	3.246	3.429	3.429	-
4	-	-	-	-	-	3.076	3.246	3.429	3.429	-
5	-	-	-	-	-	-	-	-	-	2.562

Note2: The above information was declared by manufacturer.



Note3: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left[ \sum_{k=1}^{N_{ANT}} g_{j,k} \right]^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left[ \sum_{k=1}^{N_{ANT}} g_{j,k} \right]^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left[ \sum_{k=1}^{N_{ANT}} g_{j,k} \right]^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left[ \sum_{k=1}^{N_{ANT}} g_{j,k} \right]^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ;$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2))^2$$

$$DG = 10 \log \left[ \frac{(NSS1(g1,1) + NSS1(g1,2))^2}{N_{ANT}} \right] \Rightarrow 10 \log \left[ \frac{(10^{G1/20} + 10^{G2/20})^2}{N_{ANT}} \right]$$

Where ;

2.4G G1= 2.626 dBi ;2.4G G2= 2.626 dBi ;DG= 5.636dBi

5G UNII-1 G1= 3.6 dBi ;5G Band1 G2= 3.6 dBi ;DG= 6.610dBi

5G UNII-2A G1= 3.535 dBi ;5G Band2 G2= 3.535 dBi ;DG= 6.545dBi

5G UNII-2C G1= 3.323 dBi ;5G Band3 G2= 3.323 dBi ;DG= 6.333dBi

5G UNII-3 G1= 3.333 dBi ;5G Band4 G2= 3.333 dBi ;DG= 6.343dBi

6G UNII-5 G1= 3.076 dBi ;6.2G G2= 3.076 dBi ;DG= 6.086dBi

6G UNII-6 G1= 3.246 dBi ;6.4G G2= 3.246 dBi ;DG= 6.256dBi

6G UNII-7 G1= 3.429 dBi ;6.7G G2= 3.429 dBi ;DG= 6.439dBi

6G UNII-8 G1= 3.429 dBi ;7G G2= 3.429 dBi ;DG= 6.439dBi

**<For 2.4GHz function>**

**For IEEE 802.11b/g/n/VHT/ax (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

**<For 5GHz function>**

**For IEEE 802.11a/n/ac/ax (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

**<For 6GHz function>**

**For IEEE 802.11ax (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

**<For Bluetooth function> (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

Port 1 could transmit/receive simultaneously.



**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-BR(1Mbps)	0.741	1.3	2.888m	1k
BT-EDR(2Mbps)	0.79	1.02	2.89m	1k
BT-EDR(3Mbps)	0.742	1.3	2.891m	1k

Note:

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

**1.1.4 EUT Operational Condition**

<b>EUT Power Type</b>	From Power Adapter
<b>Test Software Version</b>	QRCT version 4.0.209.0

**1.1.5 Table for Multiple Listing**

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

Model Name	Description
MX6200	All the models are identical, the difference model for difference model served as marketing strategy.
MX62EC	
MX62WH	
MX62MS	
SPNMX62	
MX6203	
MX6202	
MX6201	
MX62	

Note 1: From the above models, model: MX6200 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.





### 1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.247

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.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Owen Hsu	16.5~17.5 / 61~64	Jan. 31, 2023~ Feb. 02, 2023
Radiated (below 1GHz)	10CH01-CB	Tim Chen	19~20 / 56~57	Feb. 15, 2023 ~ Feb. 16, 2023
Radiated (above 1GHz)	03CH02-CB	Ken Yeh	21.5~22.6 / 59~63	Nov. 29, 2022~ Feb. 13, 2023
AC Conduction	CO01-CB	Tim Chen	22~23 / 56~57	Jan. 12, 2023

### 1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.4 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	8
2440MHz	8
2480MHz	8
BT-EDR(2Mbps)	-
2402MHz	8
2440MHz	8
2480MHz	8
BT-EDR(3Mbps)	-
2402MHz	8
2440MHz	8
2480MHz	8



## 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>	Normal Link
1	EUT + Adapter 3 + plug
2	EUT + Adapter 4 + plug
3	EUT + Adapter 1
4	EUT + Adapter 2
For operating mode 2 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	20dB Bandwidth Carrier Frequency Separation Maximum Conducted Output Power Number of Hopping Frequencies Hopping Bandedge Time of Occupancy (Dwell Time) 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.
After evaluating, the worst case was found at Z axis from Radiated Emission test Above 1GHz. So the measurement will follow this same test configuration.	
<b>Operating Mode &lt; 1GHz</b>	CTX
1	EUT in Z axis + WLAN 2.4GHz + Adapter 1
2	EUT in Z axis + WLAN 2.4GHz + Adapter 2
3	EUT in Z axis + WLAN 2.4GHz + Adapter 4 + plug
4	EUT in Z axis + WLAN 2.4GHz + Adapter 3 + plug
Mode 3 has been evaluated to be the worst case among Mode 1~4, thus measurement for Mode 5~7 will follow this same test mode.	
5	EUT in Z axis + WLAN 5GHz + Adapter 4 + plug
6	EUT in Z axis + WLAN 6GHz + Adapter 4 + plug



7	EUT in Z axis + Bluetooth + Adapter 4 + plug
For operating mode 3 is the worst case and it was record in this test report.	
<b>Operating Mode &gt; 1GHz</b>	CTX
After evaluating, the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.	
1	EUT in Z 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 + WLAN 5GHz + WLAN 6GHz
Refer to Sporton Test Report No.: FA2N2822 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 Mode:

During the test, the EUT operation to normal function.

### 2.4 Accessories

<b>Accessories</b>			
<b>Equipment Name</b>	<b>Brand Name</b>	<b>Model Name</b>	<b>Rating</b>
Adapter 1	Ktec	KSA-30W-120250VU	Input: 100-240V~50/60Hz, 1.0A Output: 12.0V, 2.5A
Adapter 2	APD	WA-30P12FU	Input: 100-240V~, 50-60Hz, 0.9A Max. Output: 12.0V, 2.5A
Adapter 3	Ktec	KSA-30W-120250D5	Input: 100-240V~50/60Hz, 1.0A Output: 12.0V, 2.5A, 30.0W
Adapter 4	APD	WA-30P12R	Input: 100-240V~, 50-60Hz, 0.9A Max. Output: 12.0V, 2.5A, 30.0W
<b>Others</b>			
RJ-45 cable*1, non-shielded, 0.9m			
Plug 1*1 (Equip with Adapter 3 use only)			
Plug 2*1 (Equip with Adapter 4 use only)			



## 2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN1 NB	DELL	T3400	N/A
B	LAN2 NB	DELL	E6430	N/A
C	2.4G NB	DELL	T3400	N/A
D	5G NB	DELL	T3400	N/A
E	6G NB	DELL	T3400	N/A
F	Smart phone	Samsung	Galaxy J2	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	T3400	N/A

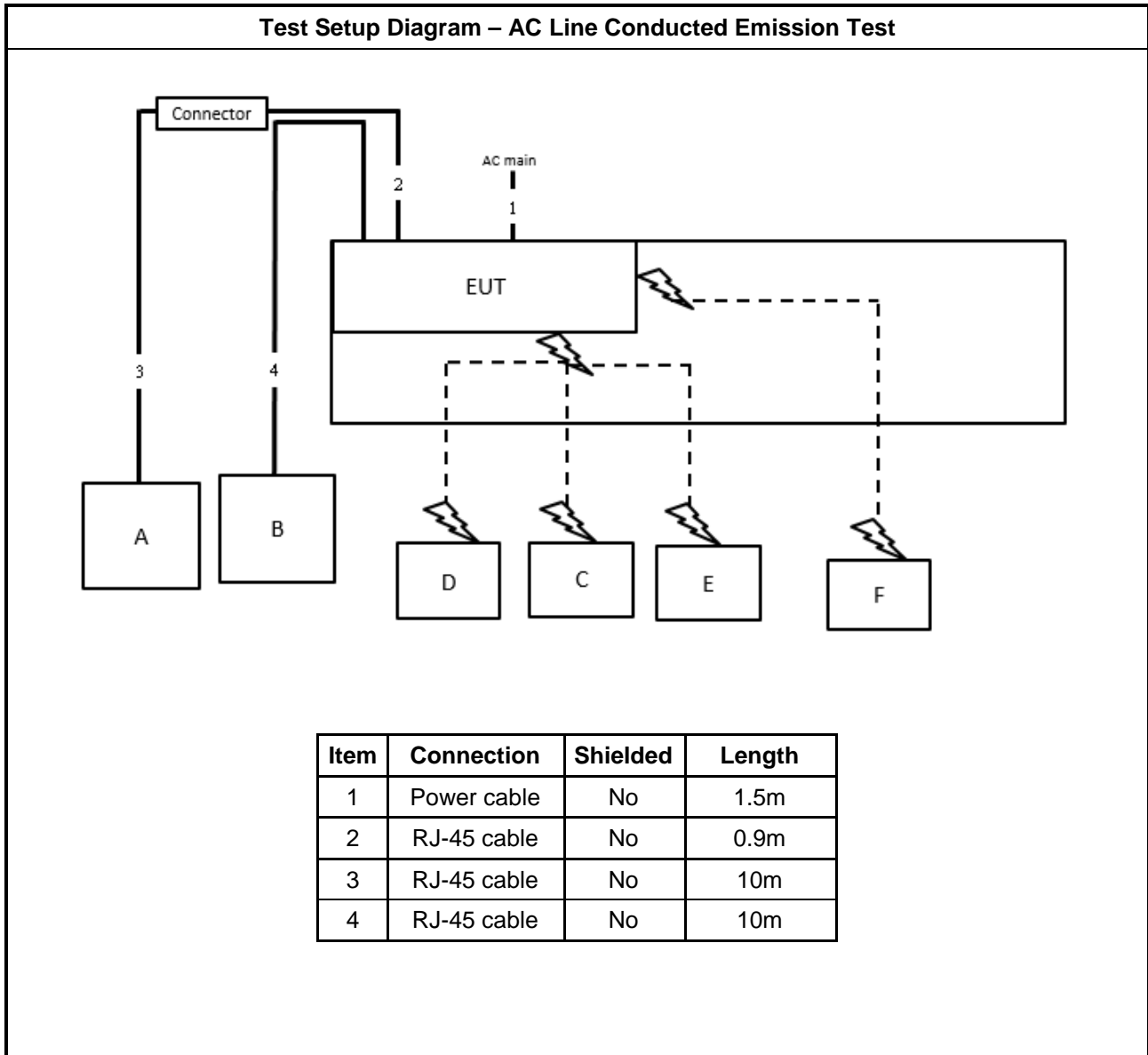
For Radiated (above 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	Lenovo	L440	N/A

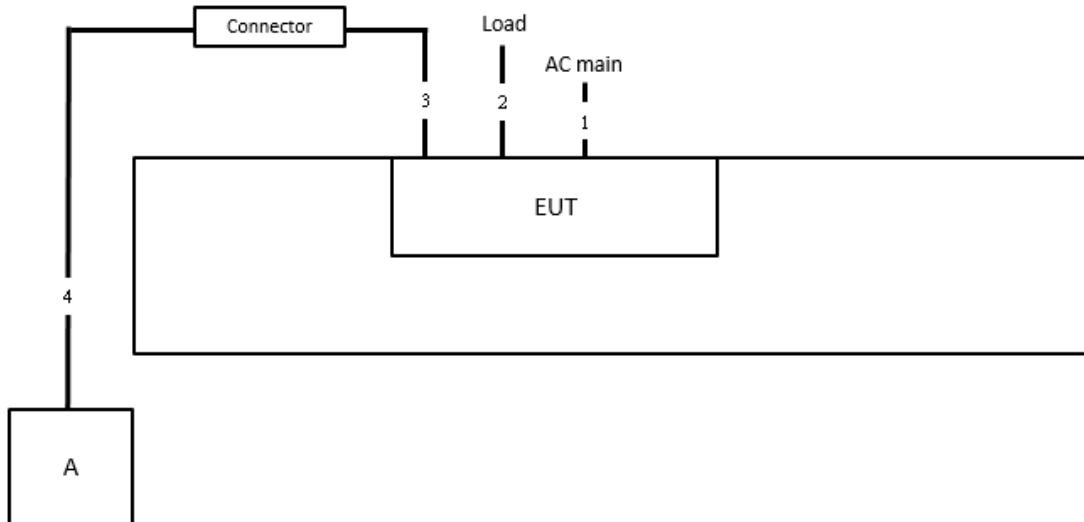
For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

## 2.6 Test Setup Diagram

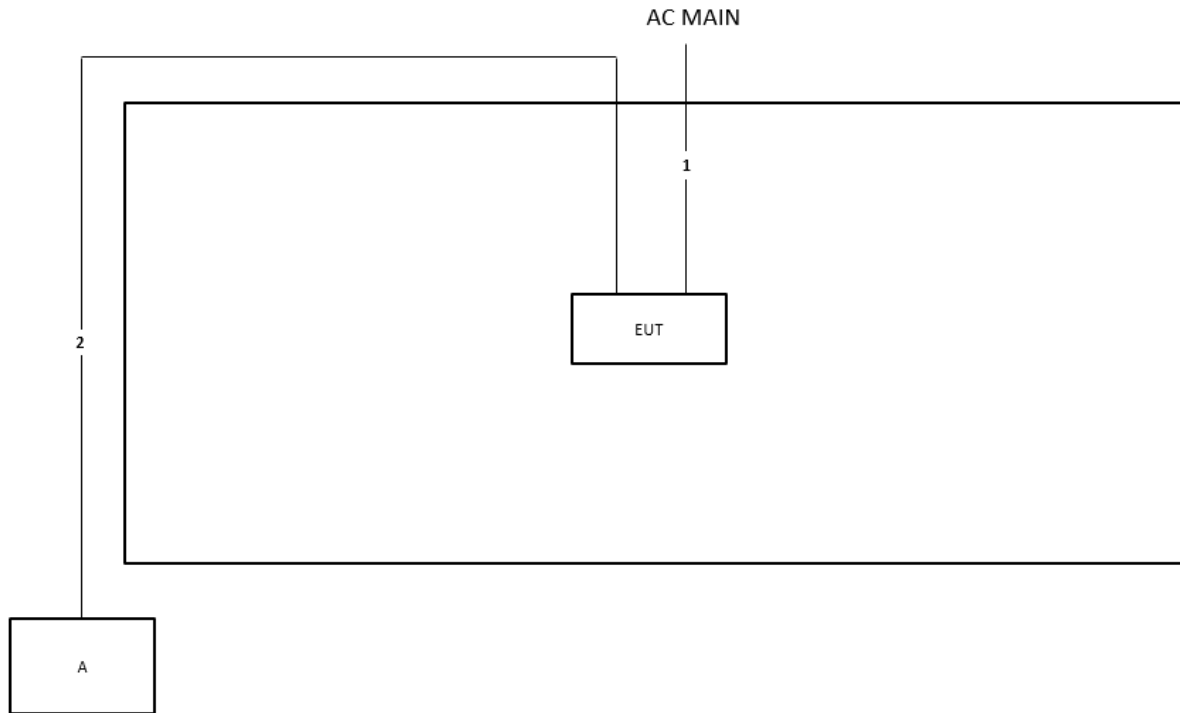


**Test Setup Diagram - Radiated Test < 1GHz**



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	0.9m
4	RJ-45 cable	No	10m

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



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	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.

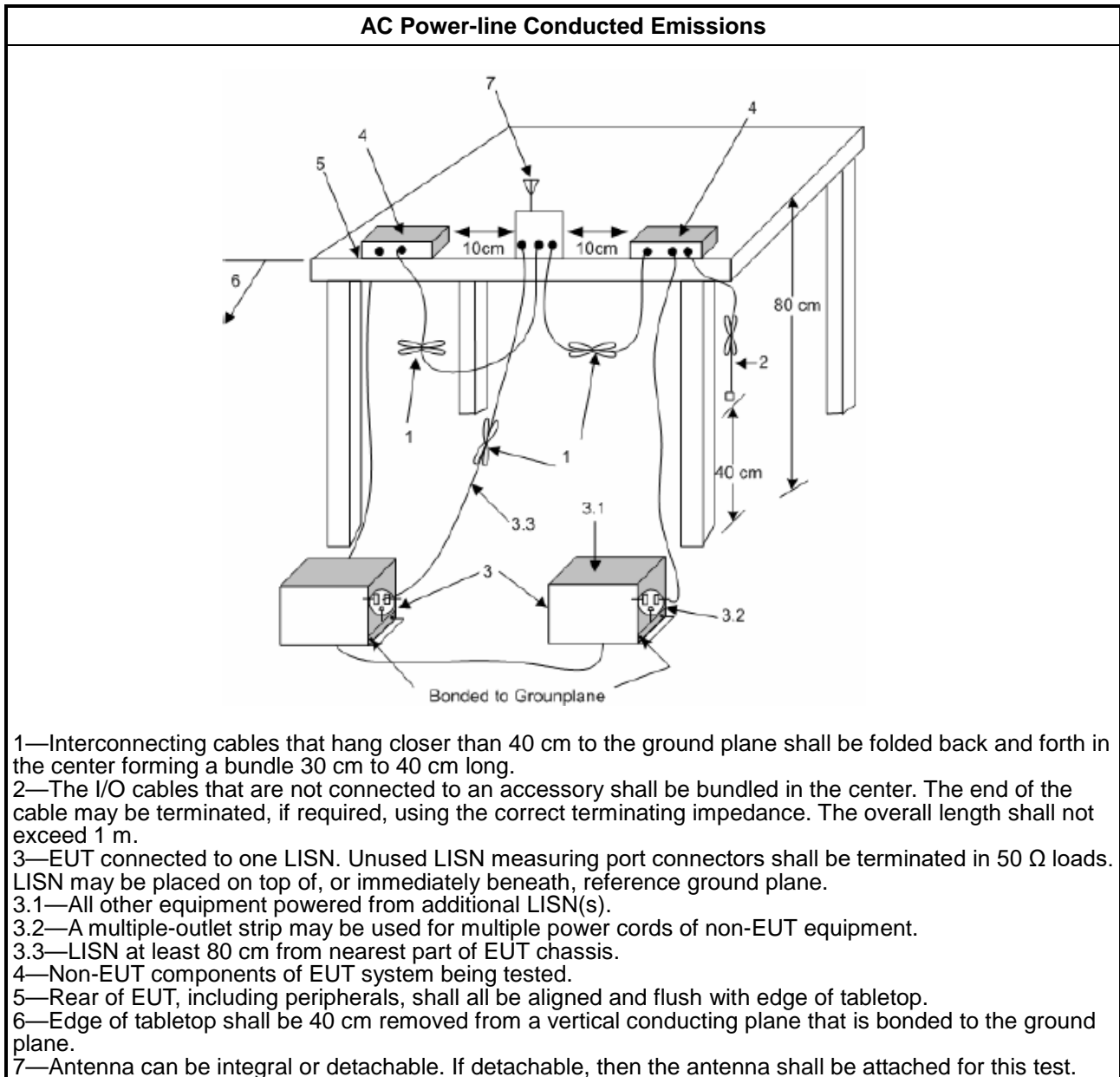
##### 3.1.2 Measuring Instruments

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 20dB Bandwidth and Carrier Frequency Separation

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

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 250 kHz.
	▪ $50 > N \geq 25$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 1 MHz.
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

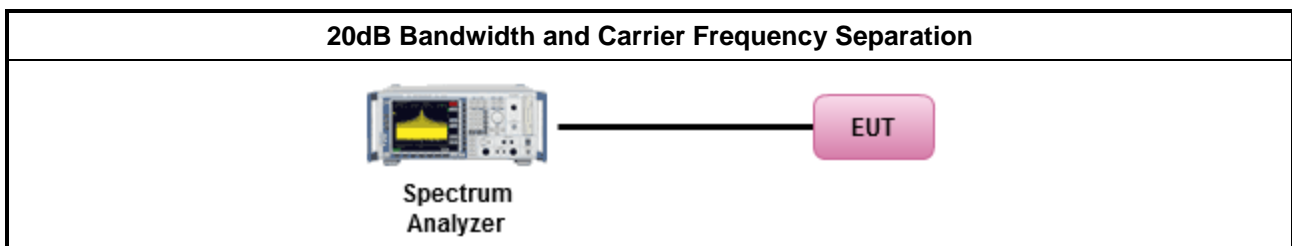
#### 3.2.2 Measuring Instruments

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

#### 3.2.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 6.9.1 for 20 dB bandwidth measurement.
▪ Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement.

#### 3.2.4 Test Setup



#### 3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

#### 3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
<ul style="list-style-type: none"> <li>▪ 902-928 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ <math>N \geq 50</math>; Power 30dBm; EIRP 36dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ <math>50 &gt; N \geq 25</math>; Power 23.98dBm; EIRP 29.98dBm</li> </ul>
<ul style="list-style-type: none"> <li>▪ 2400-2483.5 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ <math>N \geq 75</math>; Power 30dBm; EIRP 36dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ <math>75 &gt; N \geq 15</math>; Power 21dBm; EIRP 27dBm</li> </ul>
<ul style="list-style-type: none"> <li>▪ 5725-5850 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ <math>N \geq 75</math>; Power 30dBm; EIRP 36dBm</li> </ul>
N: Number of Hopping Frequencies	

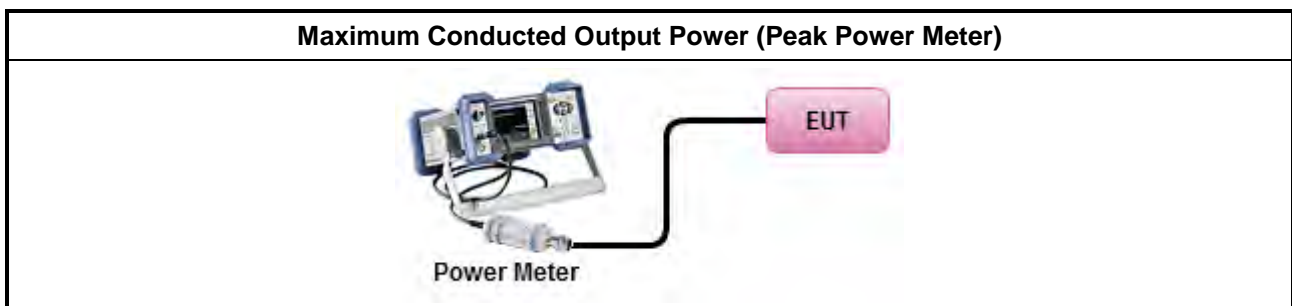
#### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

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

#### 3.3.4 Test Setup



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

Refer as Appendix C

### 3.4 Number of Hopping Frequencies and Hopping Bandedge

#### 3.4.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit	
▪	902-928 MHz Band:
	▪ $N \geq 50$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 250 kHz.
	▪ $50 > N \geq 25$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
▪	2400-2483.5 MHz Band:
	▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
▪	5725-5850 MHz Band:
	▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 1 MHz.
N: Number of Hopping Frequencies; ChS : Hopping Channel Separation	

#### 3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

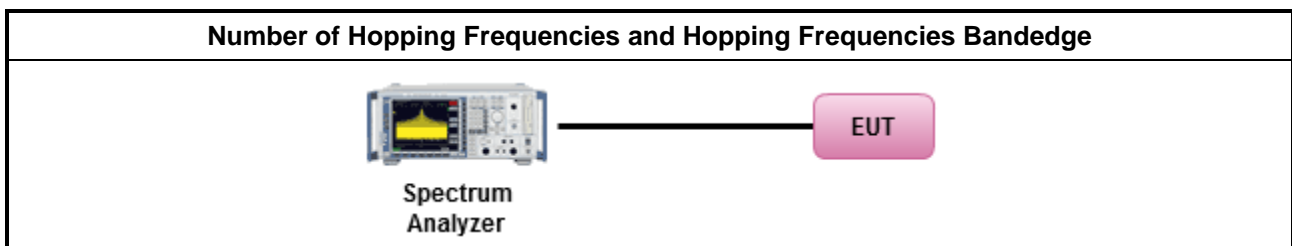
#### 3.4.3 Measuring Instruments

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

#### 3.4.4 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.
▪ Refer as ANSI C63.10-2013, clause 7.8.6 for hopping frequencies Bandedge measurement.

#### 3.4.5 Test Setup



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

Refer as Appendix D

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

Refer as Appendix D

### 3.5 Time of Occupancy (Dwell Time)

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

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
<ul style="list-style-type: none"> <li>902-928 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li>N ≥ 50; 0.4s in 20s period</li> </ul>
	<ul style="list-style-type: none"> <li>50 &gt; N ≥ 25; 0.4s in 10s period</li> </ul>
<ul style="list-style-type: none"> <li>2400-2483.5 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li>N ≥ 75; 0.4s in N x 0.4 period</li> </ul>
	<ul style="list-style-type: none"> <li>75 &gt; N ≥ 15; 0.4s in N x 0.4 period</li> </ul>
<ul style="list-style-type: none"> <li>5725-5850 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li>N ≥ 75; 0.4s in 30s period</li> </ul>
N: Number of Hopping Frequencies	

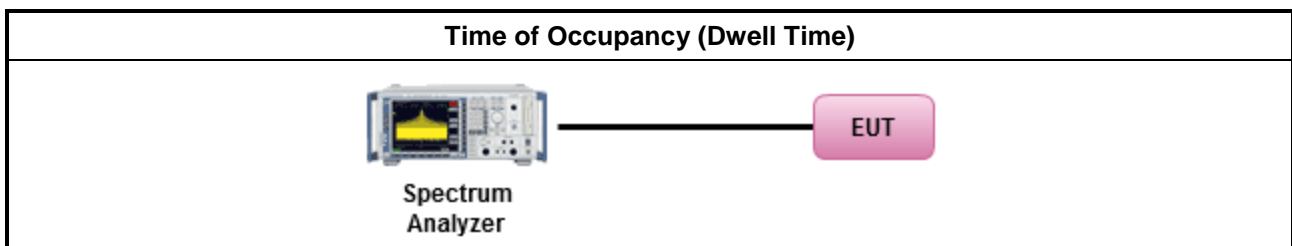
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

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

#### 3.5.4 Test Setup



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

Refer as Appendix E

### 3.6 Emissions in Non-restricted Frequency Bands

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

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

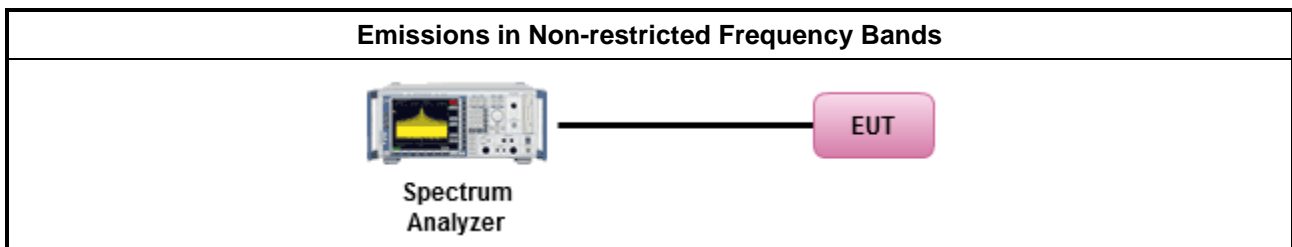
#### 3.6.2 Measuring Instruments

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

#### 3.6.3 Test Procedures

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

#### 3.6.4 Test Setup



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

Refer as Appendix F



### 3.7 Emissions in Restricted Frequency Bands

#### 3.7.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

#### 3.7.2 Measuring Instruments

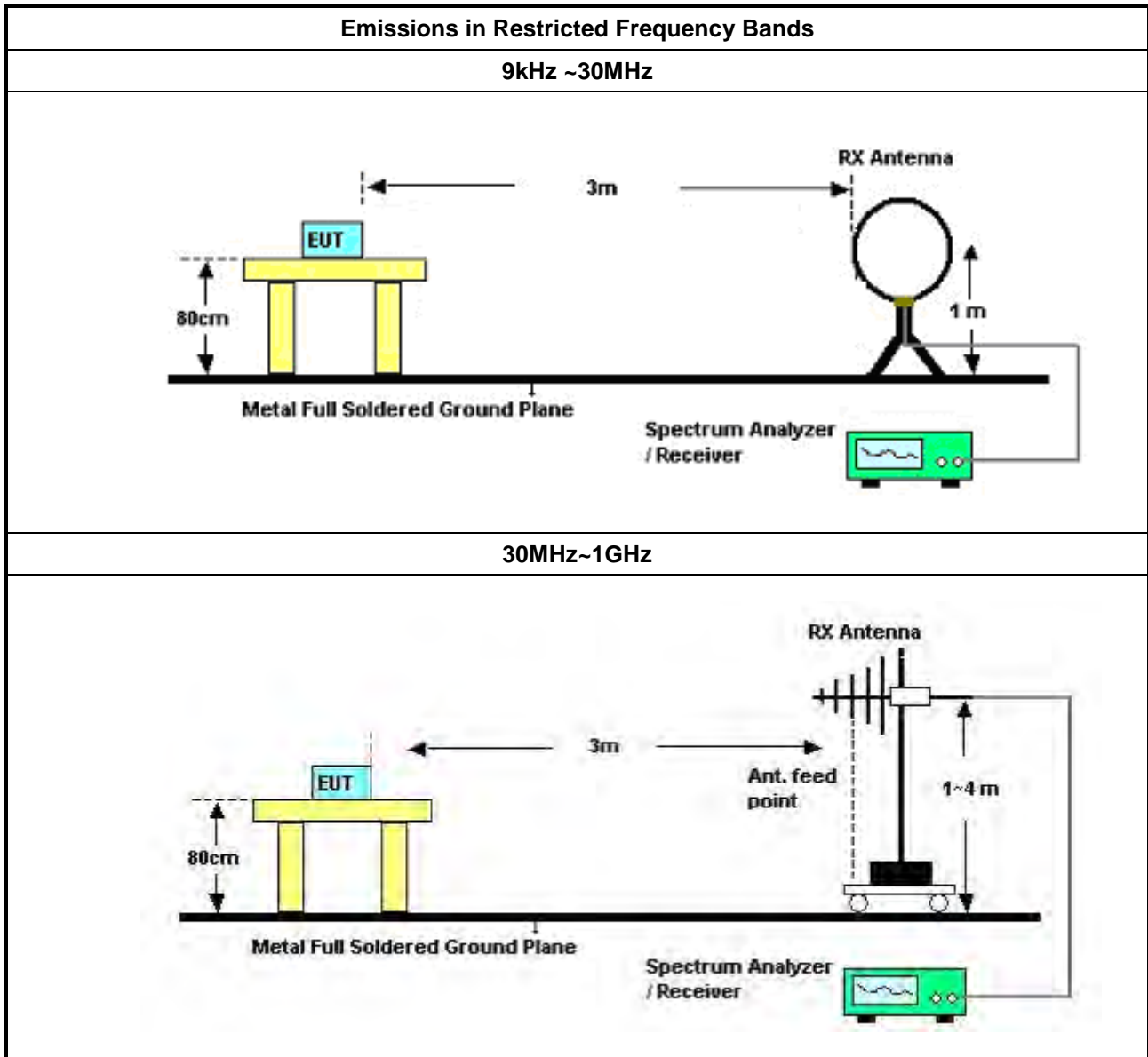
Refer a test equipment and calibration data table in this test report.

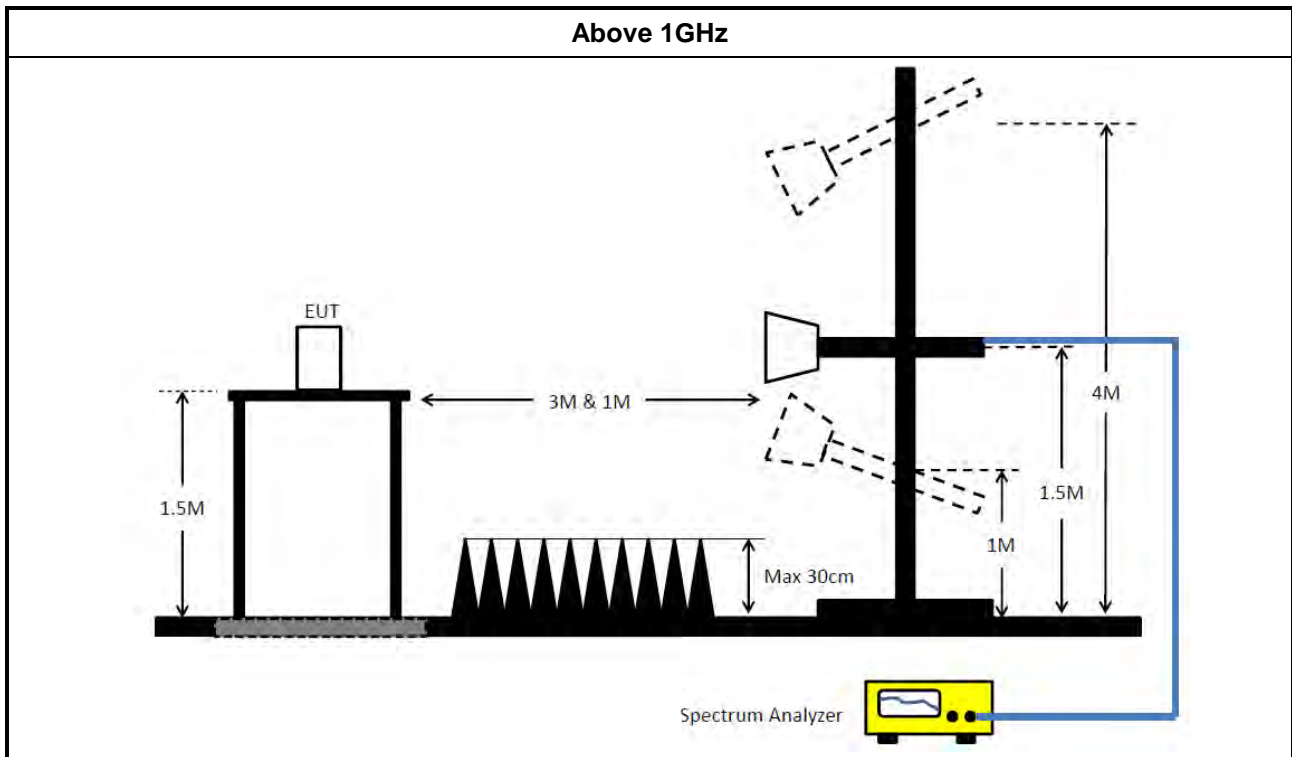
#### 3.7.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>The average emission levels shall be measured in [hopping duty factor].</li> </ul>	
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul>	
<ul style="list-style-type: none"> <li>For the transmitter unwanted emissions shall be measured using following options below:               <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.</li> <li>Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.</li> <li>Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.</li> </ul> </li> </ul>	



**3.7.4 Test Setup**





### 3.7.5 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.

### 3.7.6 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.

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

Refer as Appendix G



## 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. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-5 0-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
10m Semi Anechoic Chamber NSA	TDK	SAC-10M	10CH01-CB	30MHz~1GHz 10m,3m	Jan. 18, 2023	Jan. 17, 2024	Radiation (10CH01-CB)
Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 11, 2022	Mar. 10, 2023	Radiation (10CH01-CB)
Amplifier	Agilent	8447D	2944A10784	9kHz ~ 1.3GHz	Mar. 11, 2022	Mar. 10, 2023	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 18, 2022	Oct. 17, 2023	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 18, 2022	Oct. 17, 2023	Radiation (10CH01-CB)
EMI Test Receiver	Rohde&Schwarz	ESCI	100186	9kHz ~ 3GHz	Jul. 11, 2022	Jul. 10, 2023	Radiation (10CH01-CB)
Spectrum Analyzer	Rohde&Schwarz	FSV30	101026	9kHz ~ 30GHz	Apr. 22, 2022	Apr. 21, 2023	Radiation (10CH01-CB)
Bilog Antenna with 6dB Attenuator	Chase & EMCI	CBL6111A &N-6-06	1543 &AT-N0609	30MHz ~ 1GHz	Jun. 25, 2022	Jun. 24, 2023	Radiation (10CH01-CB)
Amplifier	EM	EM101	060703	10MHz ~ 1GHz	Oct. 19, 2022	Oct. 18, 2023	Radiation (10CH01-CB)
Low Cable	TITAN	T318E	low cable-03	30MHz ~ 1GHz	Oct. 18, 2022	Oct. 17, 2023	Radiation (10CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (10CH01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (10CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 19, 2022	Apr. 18, 2023	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSP	100593	9kHz~40GHz	Apr. 08, 2022	Apr. 07, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 30, 2022	Dec. 29, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 04, 2022	Sep. 03, 2023	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 04, 2022	Sep. 03, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz ~18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz ~18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz ~18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz ~26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

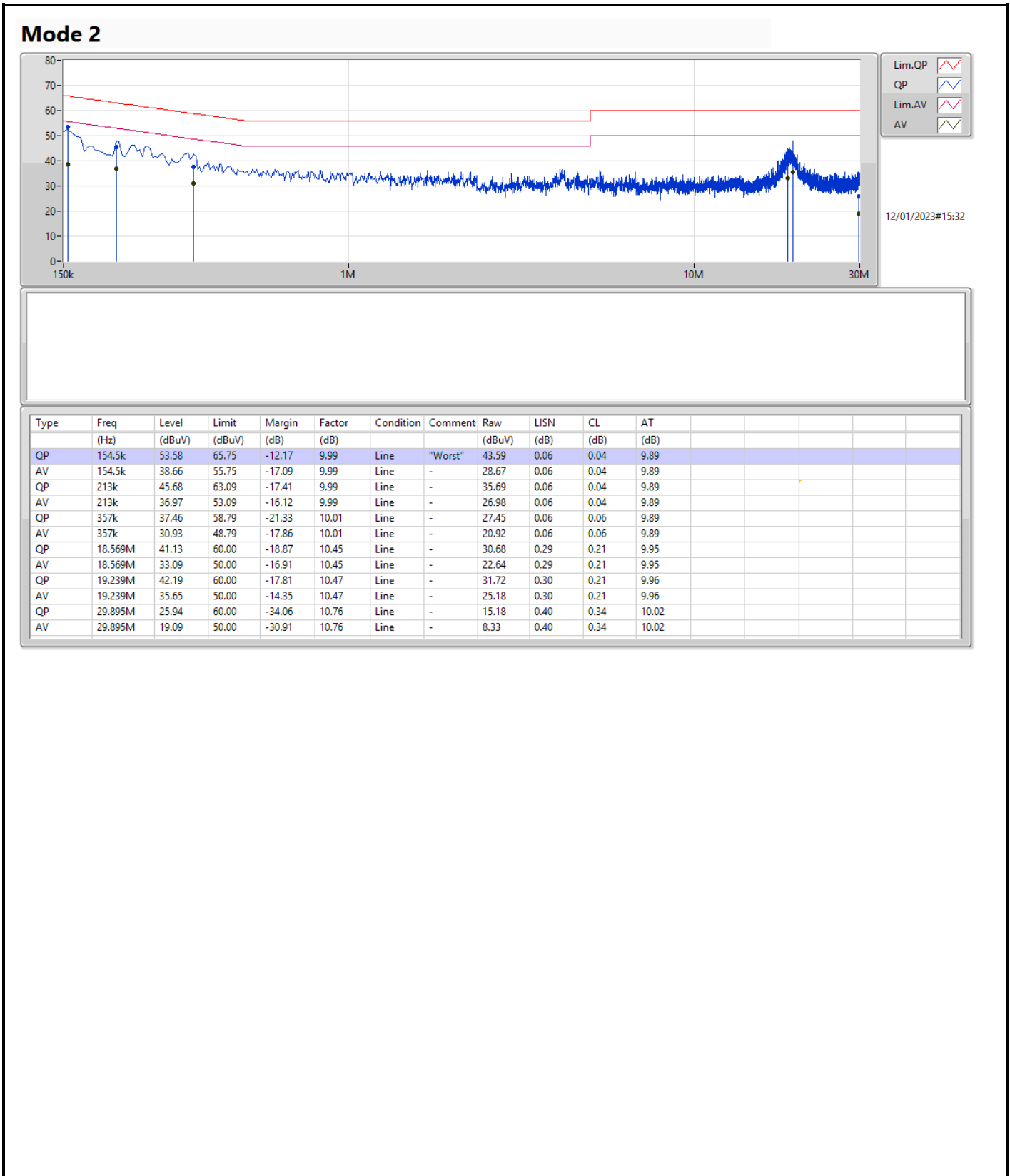
Note: Calibration Interval of instruments listed above is one year.

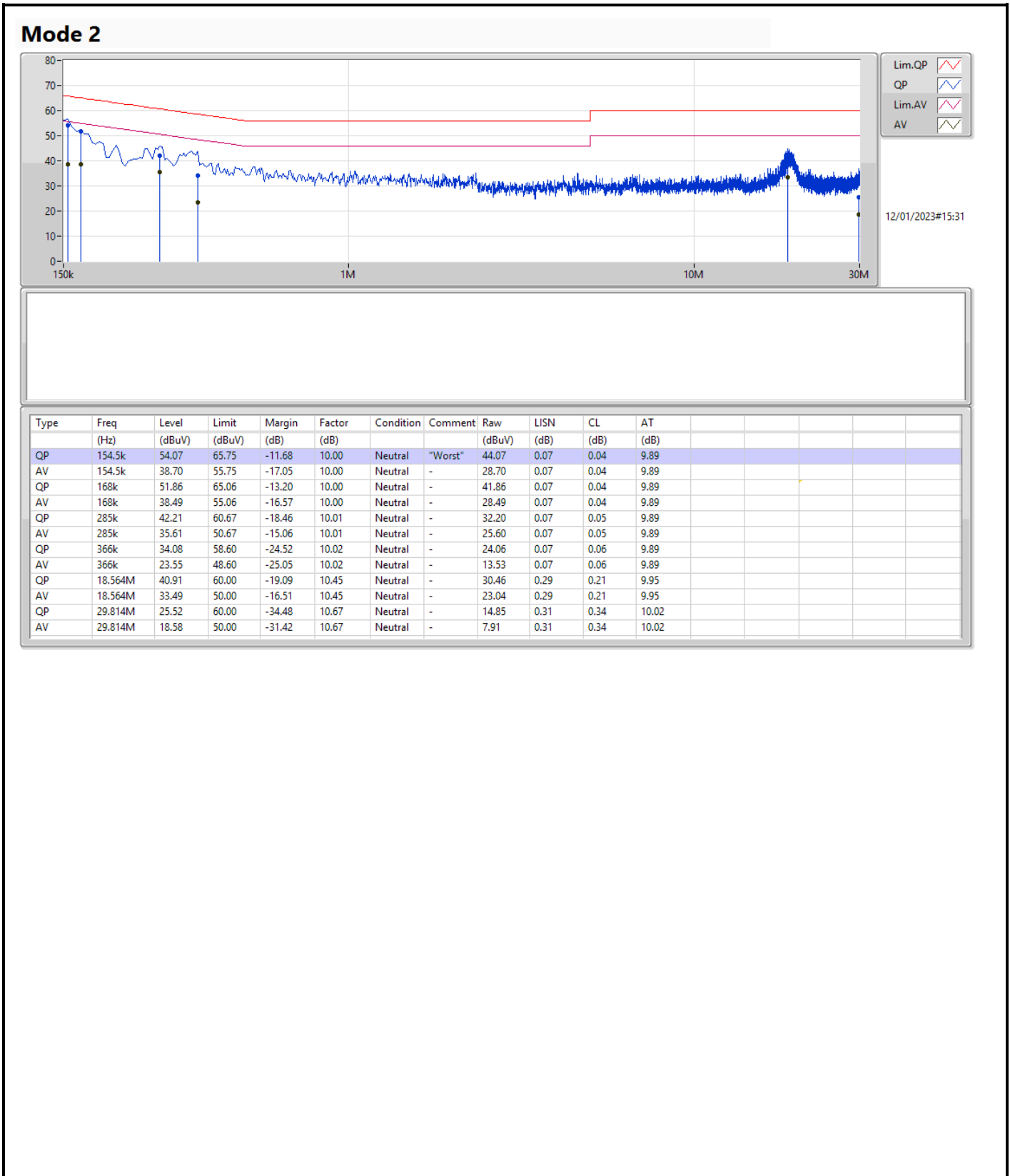
NCR means Non-Calibration required.



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	154.5k	54.07	65.75	-11.68	Neutral







Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	881.25k	840.025k	840KF1D	878.75k	835.868k
BT-EDR(2Mbps)	1.313M	1.196M	1M20G1D	1.311M	1.193M
BT-EDR(3Mbps)	1.285M	1.204M	1M20G1D	1.281M	1.202M

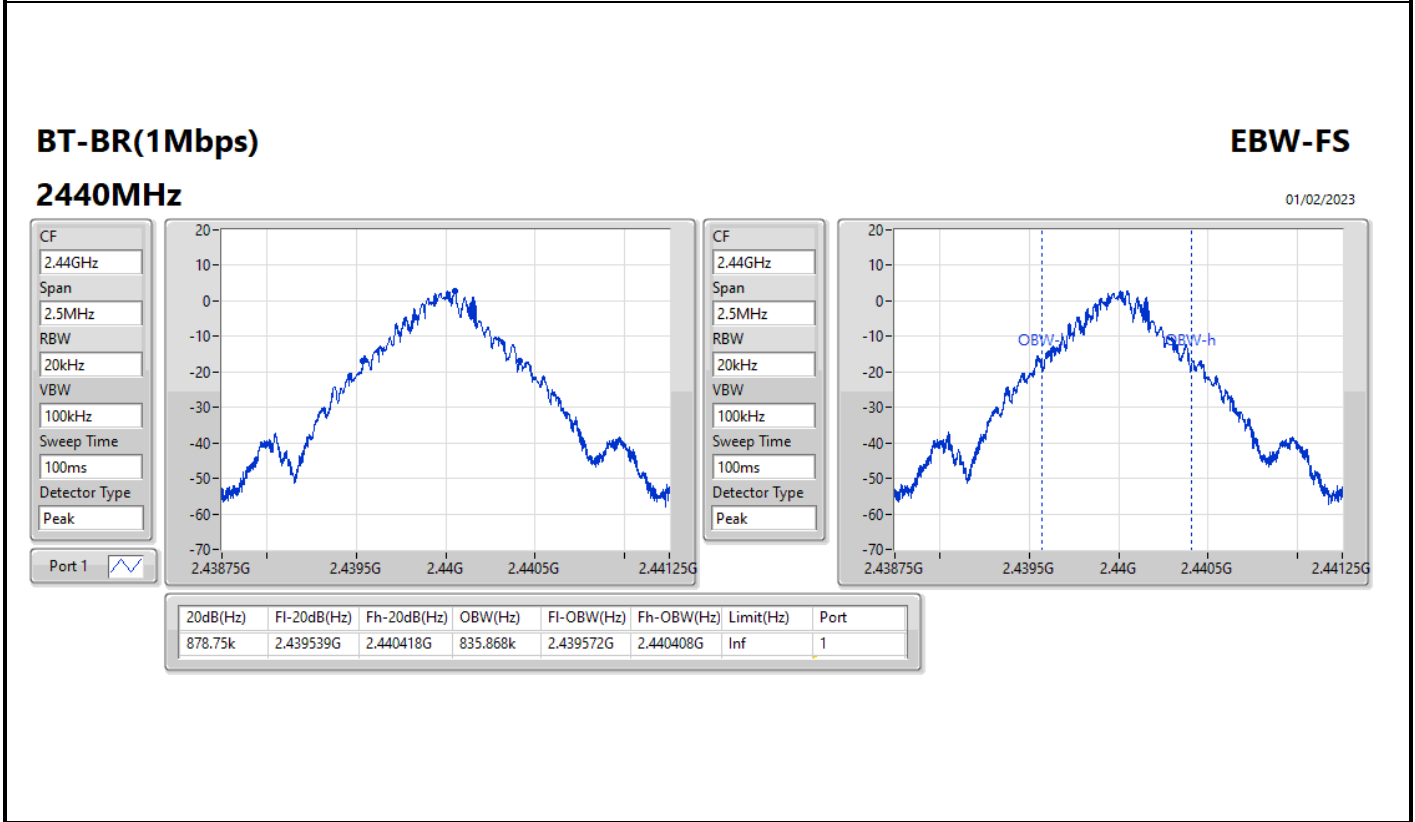
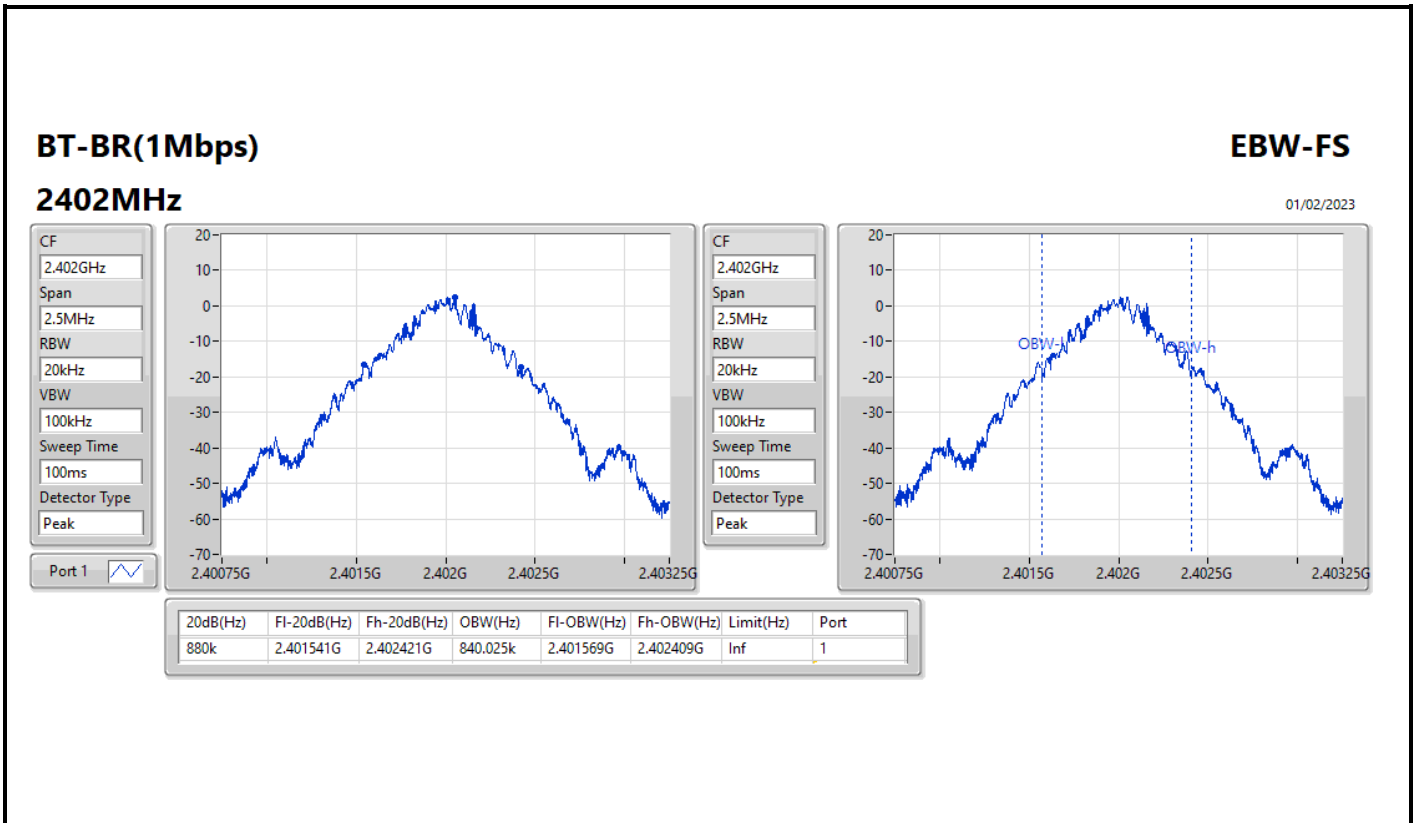
Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

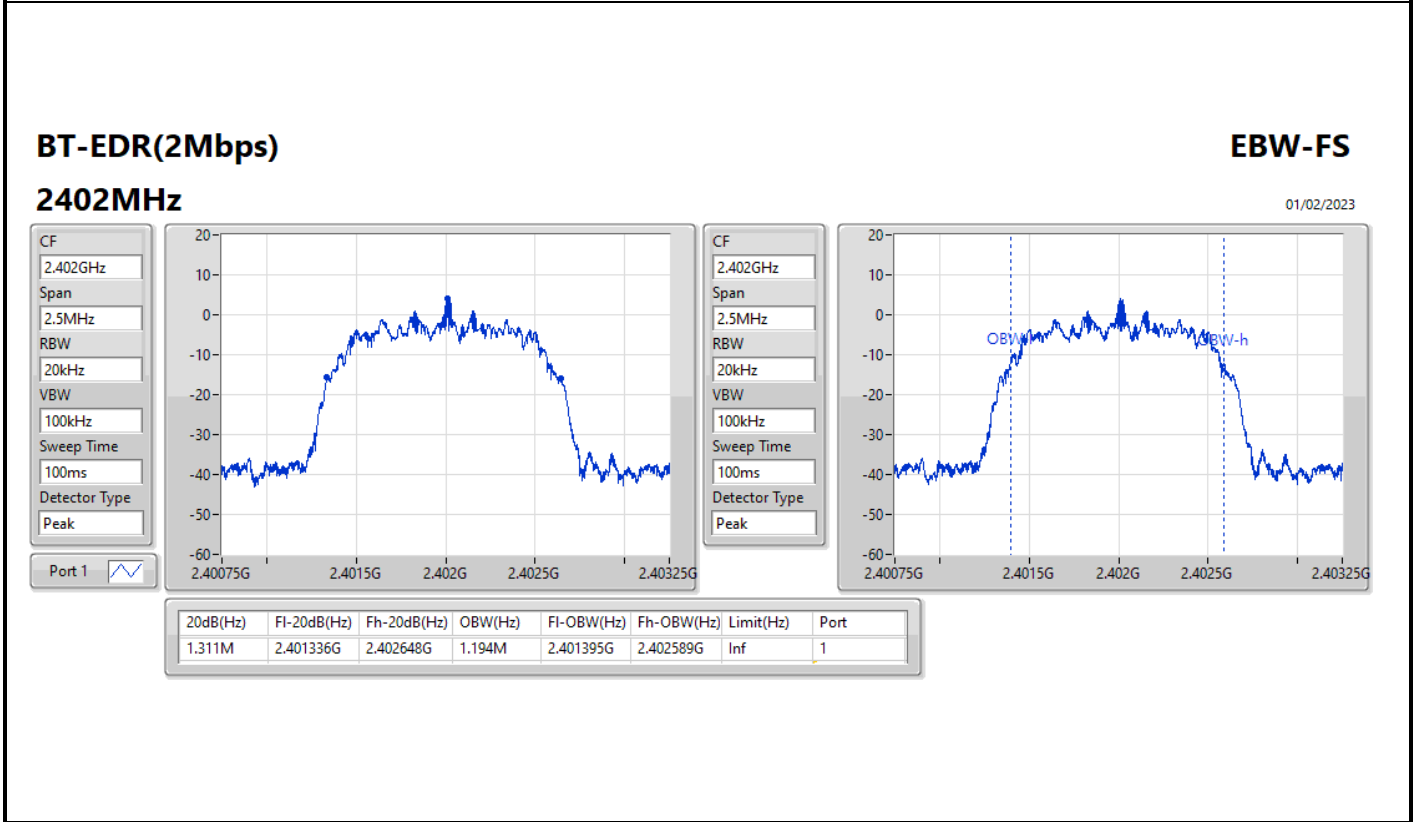
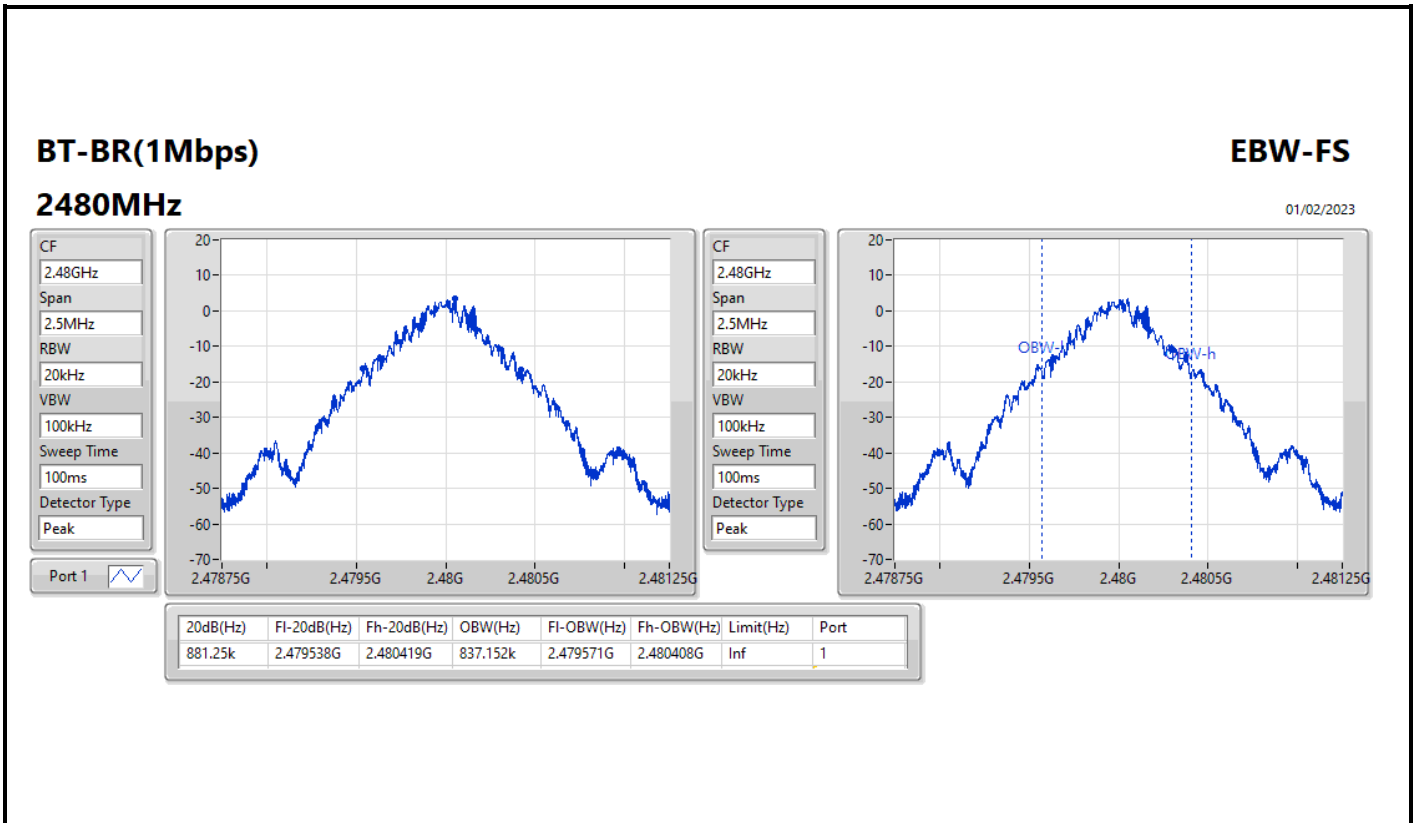


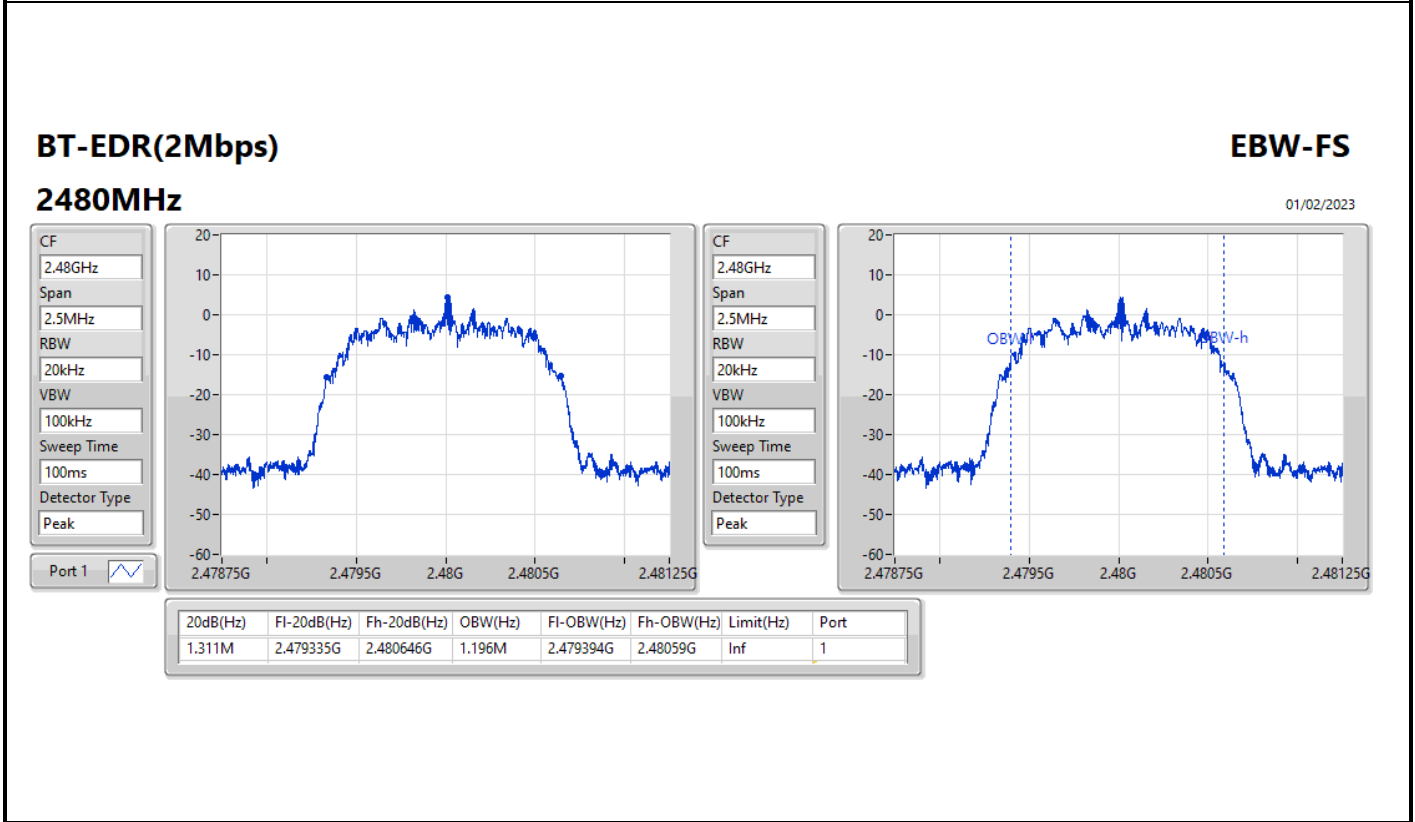
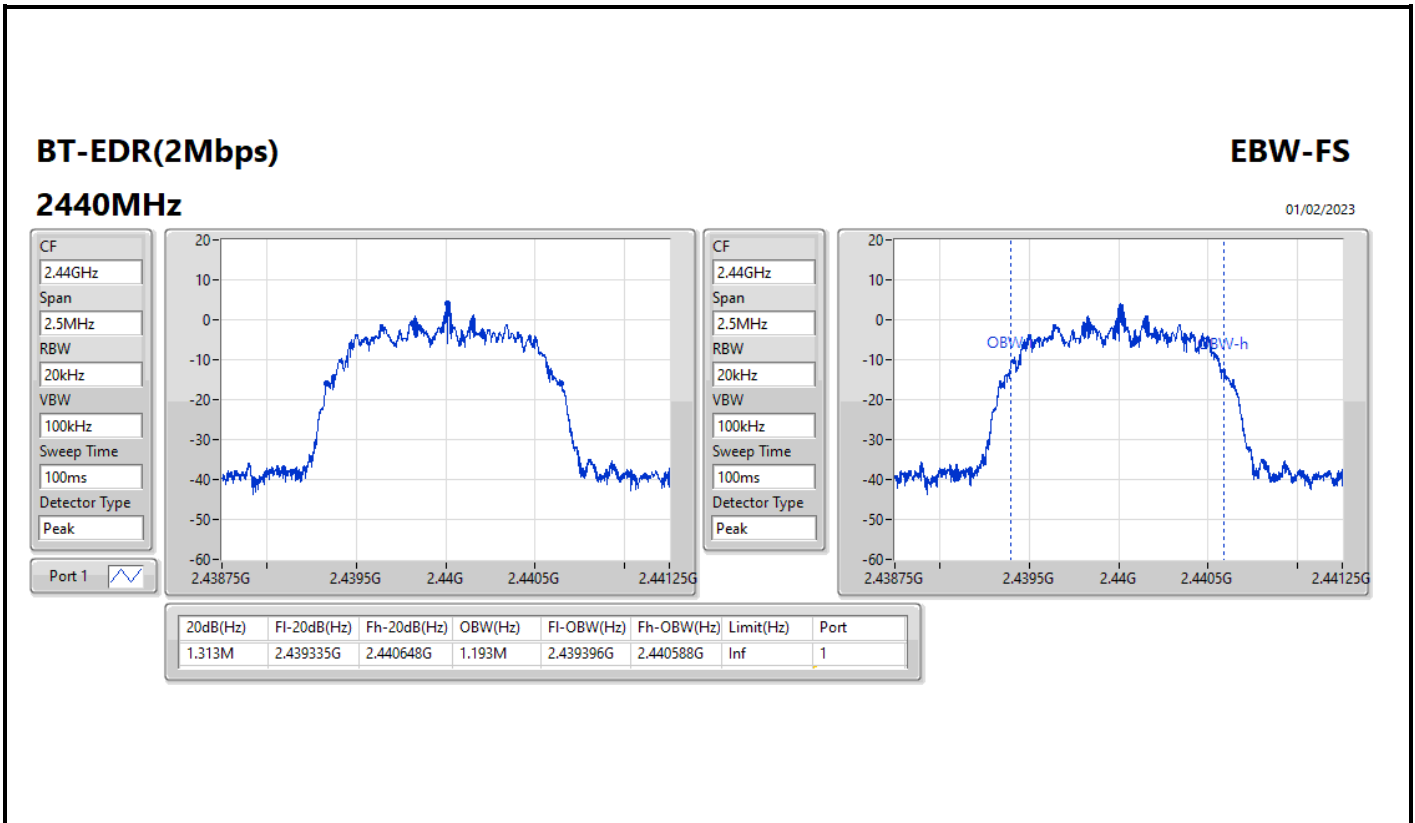
**Result**

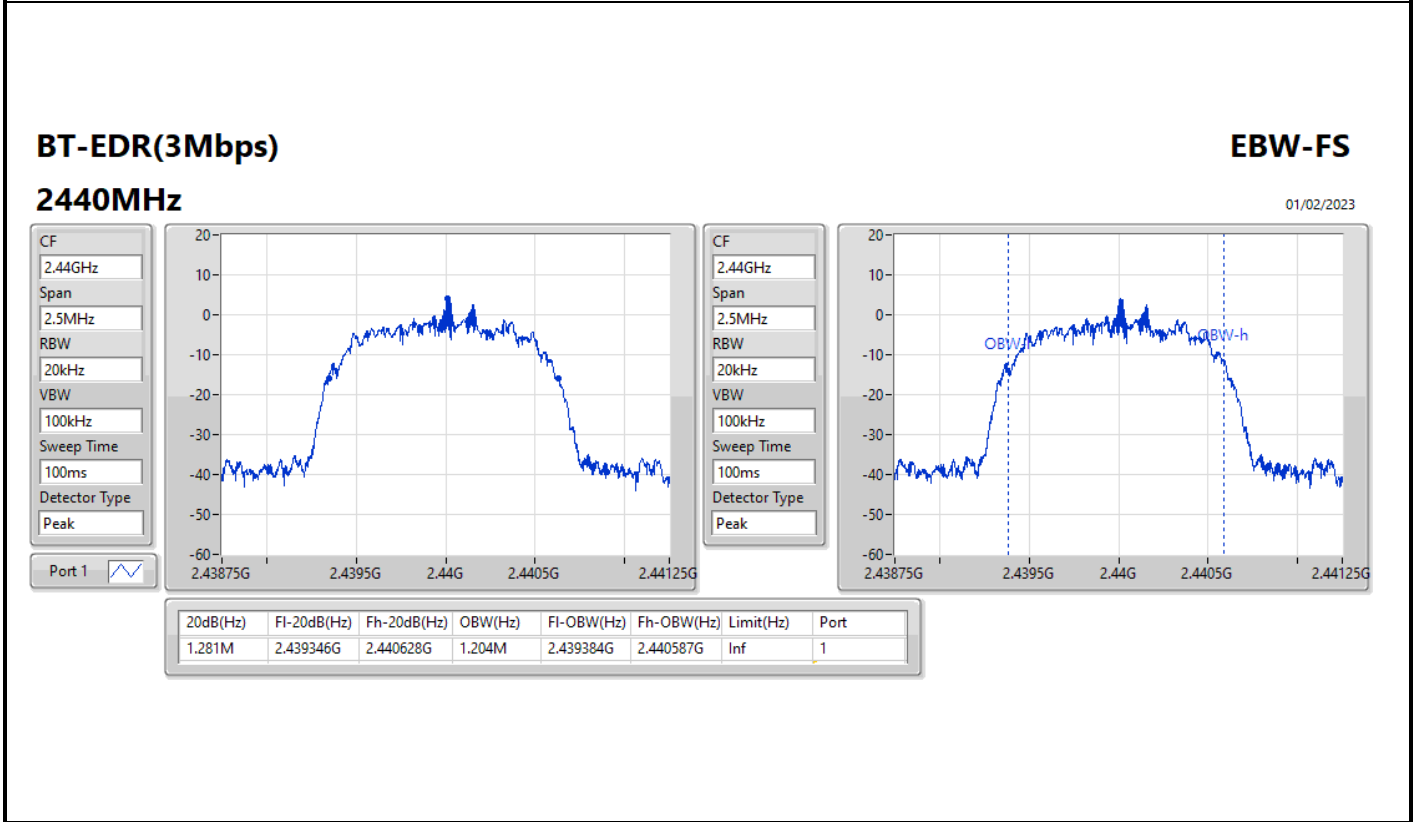
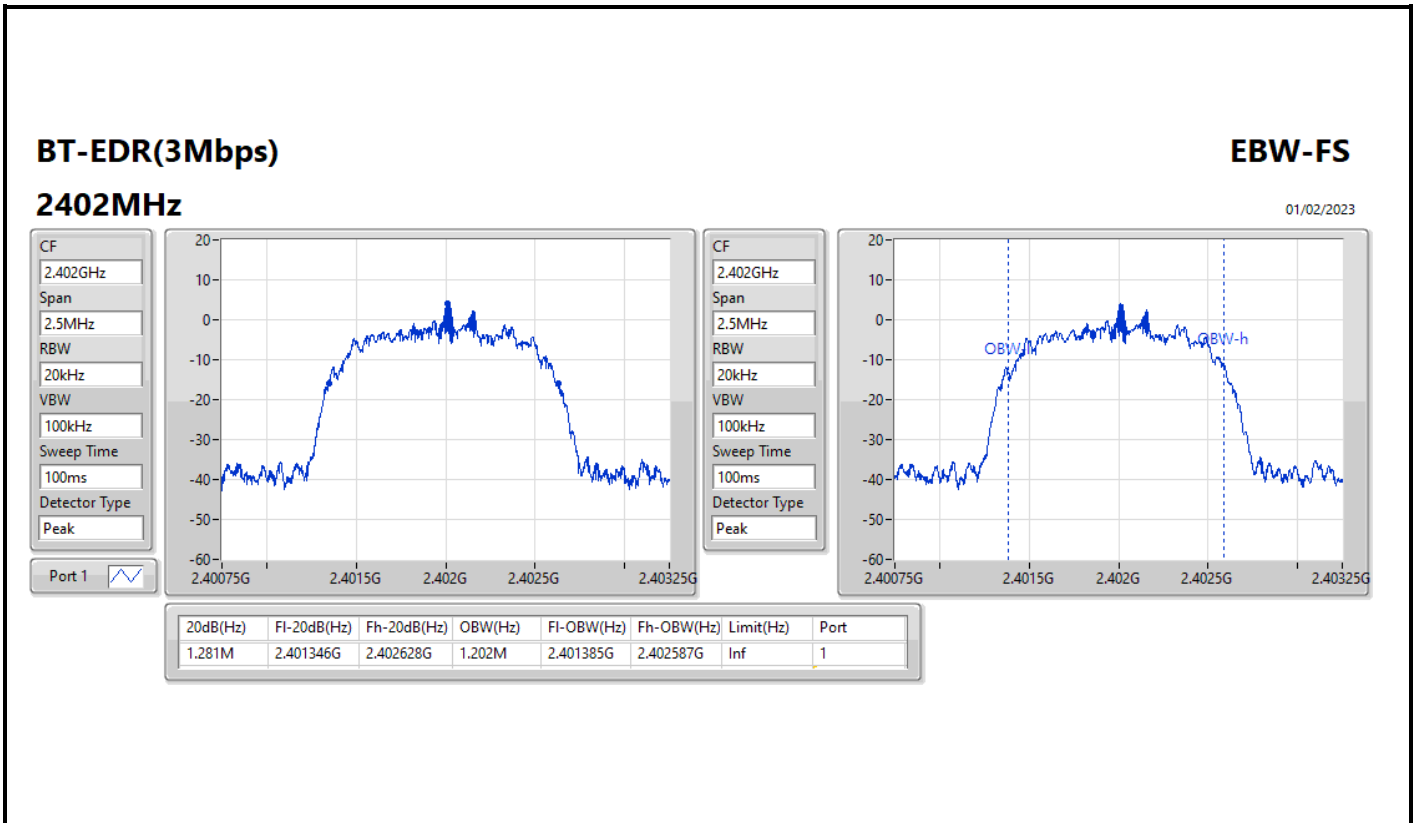
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	880k	840.025k
2440MHz	Pass	Inf	878.75k	835.868k
2480MHz	Pass	Inf	881.25k	837.152k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.311M	1.194M
2440MHz	Pass	Inf	1.313M	1.193M
2480MHz	Pass	Inf	1.311M	1.196M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.281M	1.202M
2440MHz	Pass	Inf	1.281M	1.204M
2480MHz	Pass	Inf	1.285M	1.202M

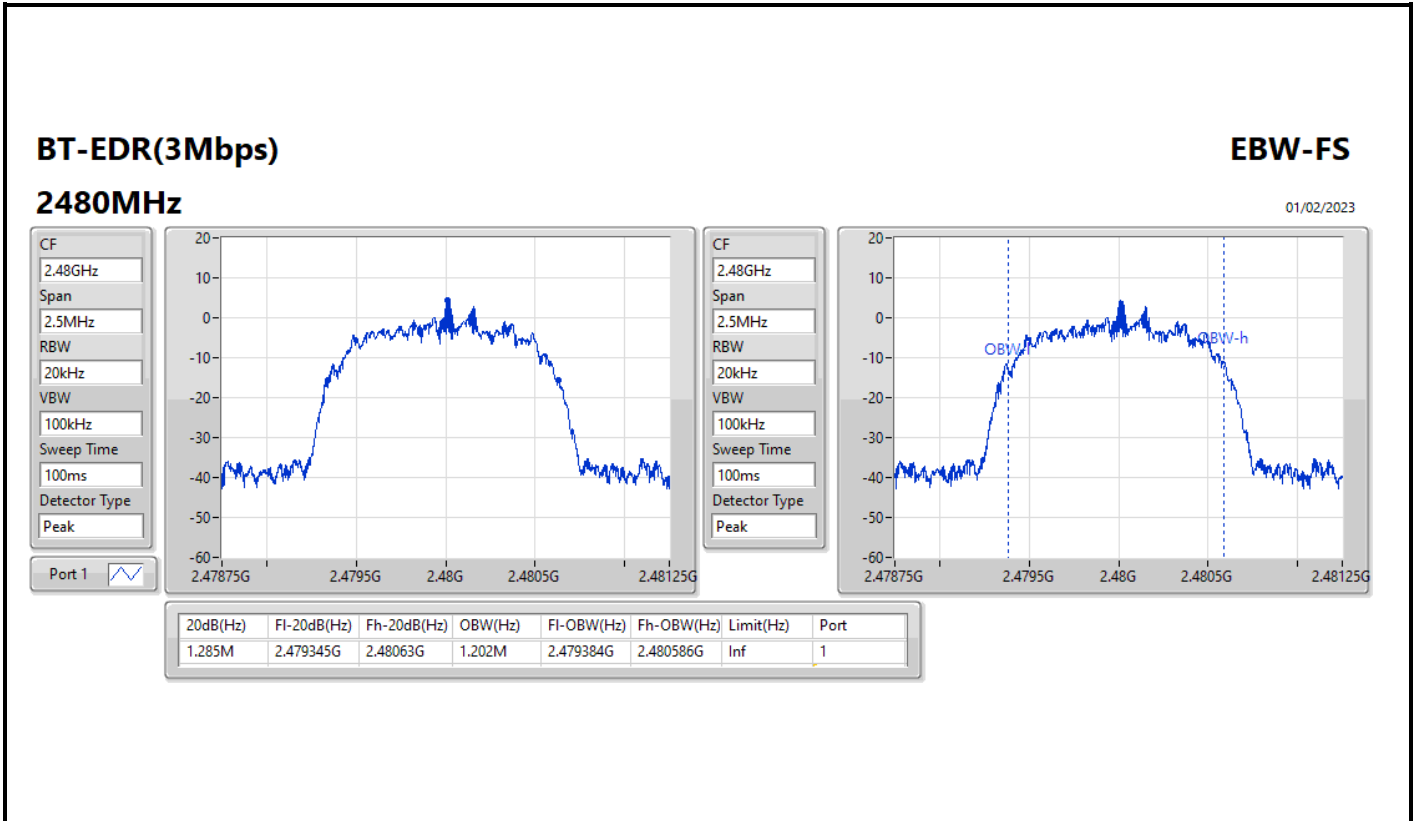
Port X-N dB = Port X 20dB down bandwidth;  
 Port X-OBW = Port X 99% occupied bandwidth













**Summary**

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.0005M	999k
BT-EDR(2Mbps)	1.002M	999k
BT-EDR(3Mbps)	1.0005M	999k



Result

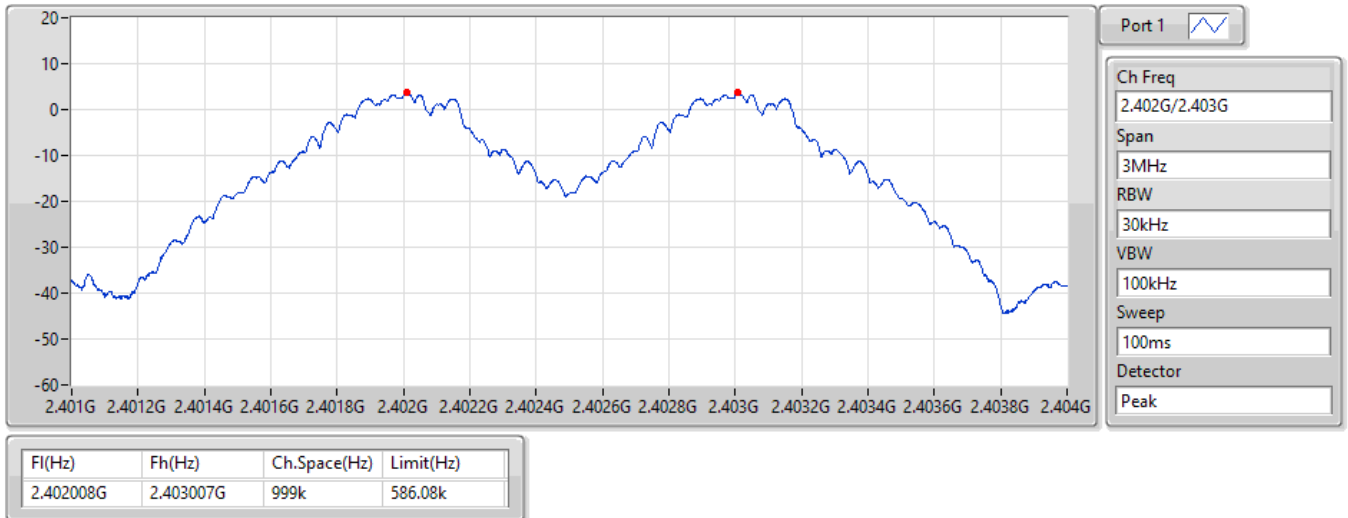
Mode	Result	F <sub>I</sub> (Hz)	F <sub>h</sub> (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402008G	2.403007G	999k	586.08k
2440MHz	Pass	2.440008G	2.441009G	1.0005M	585.2475k
2480MHz	Pass	2.479008G	2.480009G	1.0005M	586.9125k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402007G	2.403009G	1.002M	873.126k
2440MHz	Pass	2.440008G	2.441007G	999k	874.458k
2480MHz	Pass	2.479008G	2.480007G	999k	873.126k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402008G	2.403009G	1.0005M	853.146k
2440MHz	Pass	2.440008G	2.441007G	999k	853.146k
2480MHz	Pass	2.479008G	2.480009G	1.0005M	855.81k



**BT-BR(1Mbps)**

**Channel Separation-FS**

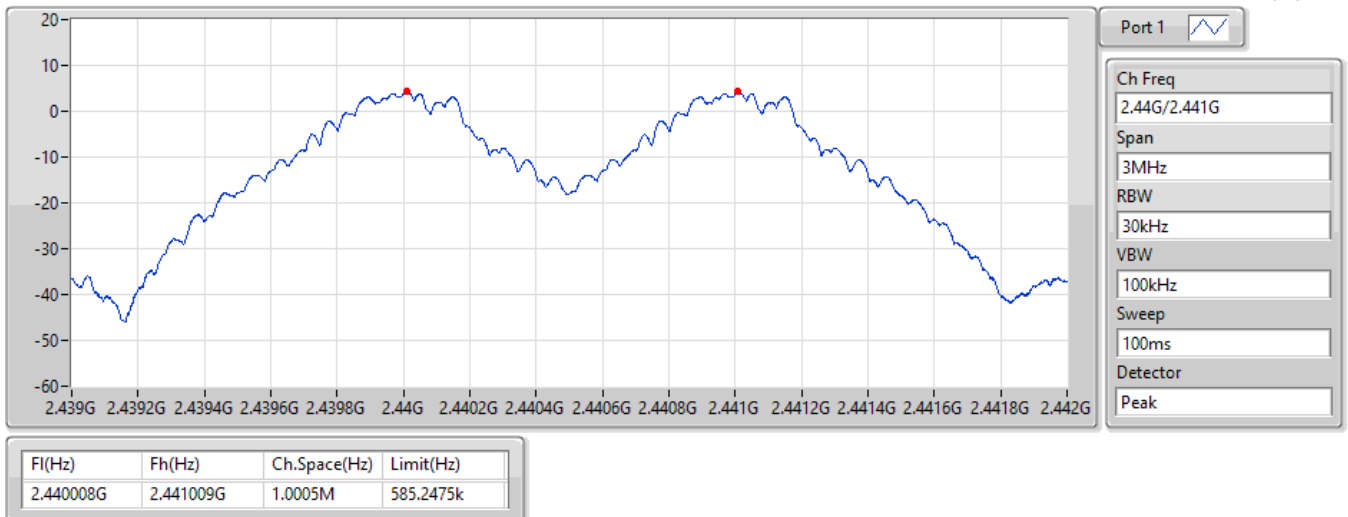
**2.402G/2.403GHz**



**BT-BR(1Mbps)**

**Channel Separation-FS**

**2.44G/2.441GHz**




**BT-BR(1Mbps)**

**2.48G/2.479GHz**

**Channel Separation-FS**

01/02/2023



Port 1 

Ch Freq  
2.48G/2.479G

Span  
3MHz

RBW  
30kHz

VBW  
100kHz

Sweep  
100ms

Detector  
Peak

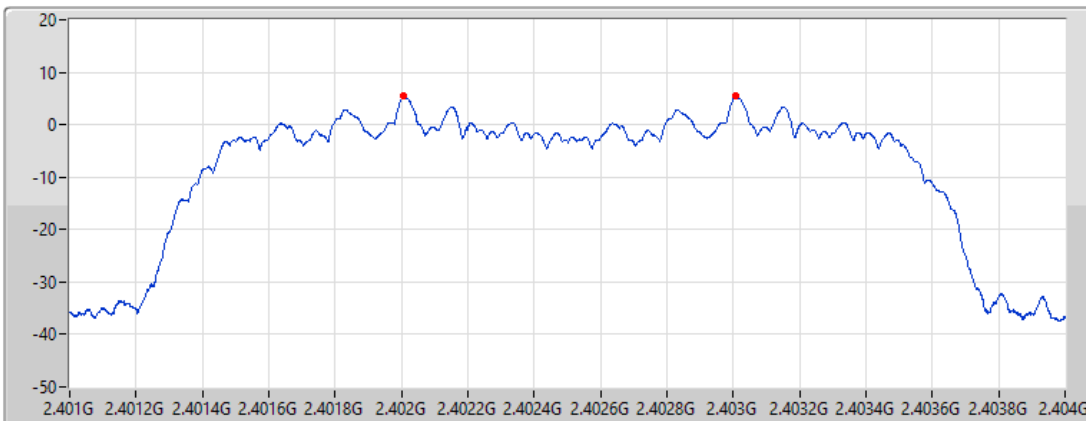
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479008G	2.480009G	1.0005M	586.9125k


**BT-EDR(2Mbps)**

**2.402G/2.403GHz**

**Channel Separation-FS**

01/02/2023



Port 1 

Ch Freq  
2.402G/2.403G

Span  
3MHz

RBW  
30kHz

VBW  
100kHz

Sweep  
100ms

Detector  
Peak

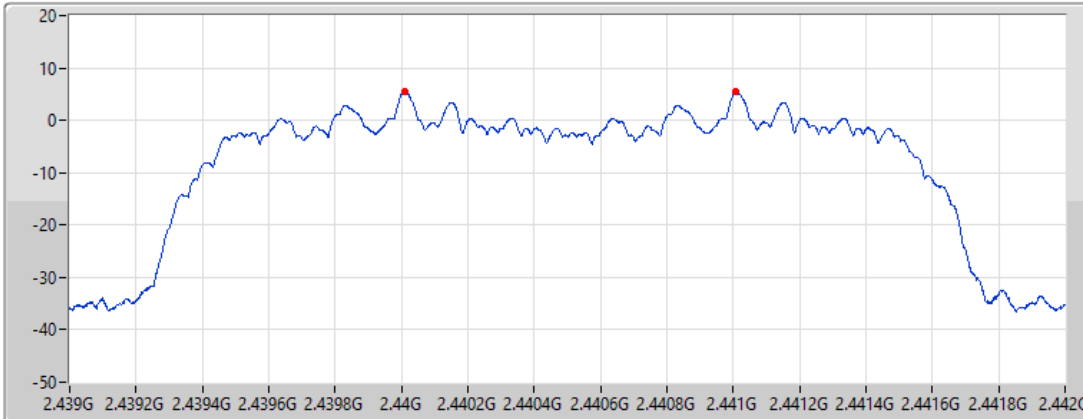
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402007G	2.403009G	1.002M	873.126k


**BT-EDR(2Mbps)**

**Channel Separation-FS**

**2.44G/2.441GHz**

01/02/2023



Port 1 

Ch Freq  
2.44G/2.441G

Span  
3MHz

RBW  
30kHz

VBW  
100kHz

Sweep  
100ms

Detector  
Peak

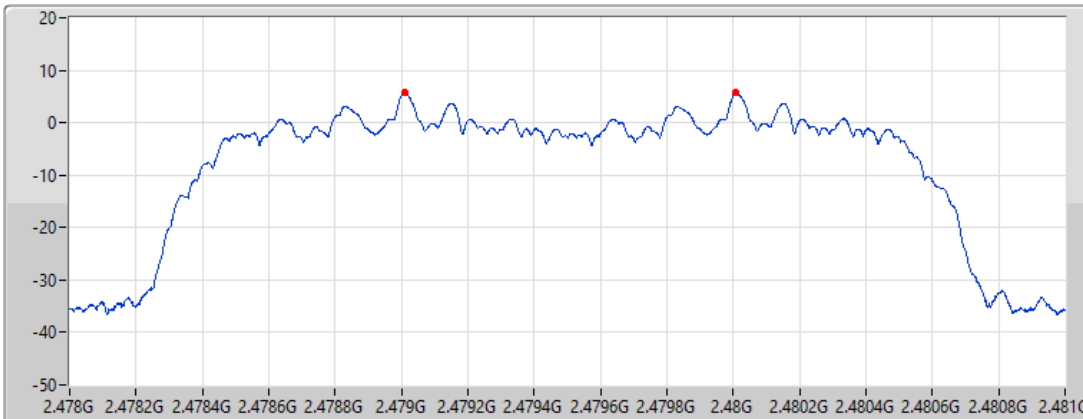
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440008G	2.441007G	999k	874.458k


**BT-EDR(2Mbps)**

**Channel Separation-FS**

**2.48G/2.479GHz**

01/02/2023



Port 1 

Ch Freq  
2.48G/2.479G

Span  
3MHz

RBW  
30kHz

VBW  
100kHz

Sweep  
100ms

Detector  
Peak

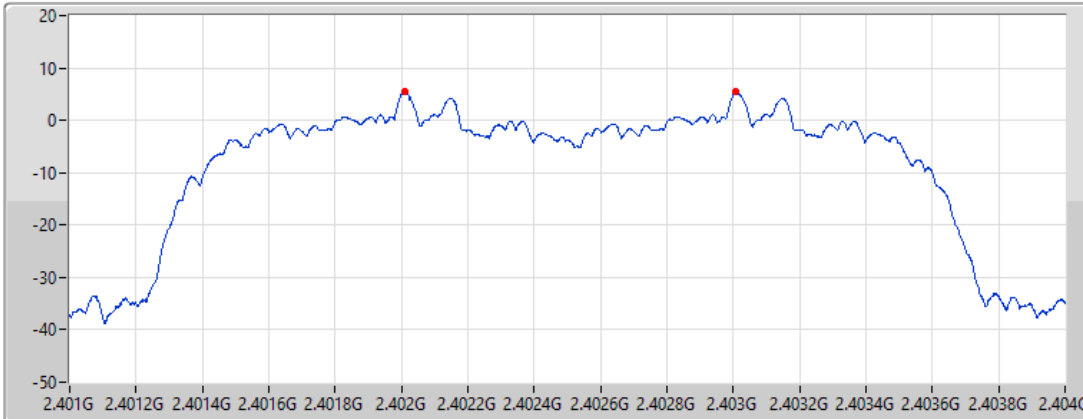
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479008G	2.480007G	999k	873.126k


**BT-EDR(3Mbps)**

**Channel Separation-FS**

**2.402G/2.403GHz**

01/02/2023



Port 1 

Ch Freq  
2.402G/2.403G

Span  
3MHz

RBW  
30kHz

VBW  
100kHz

Sweep  
100ms

Detector  
Peak

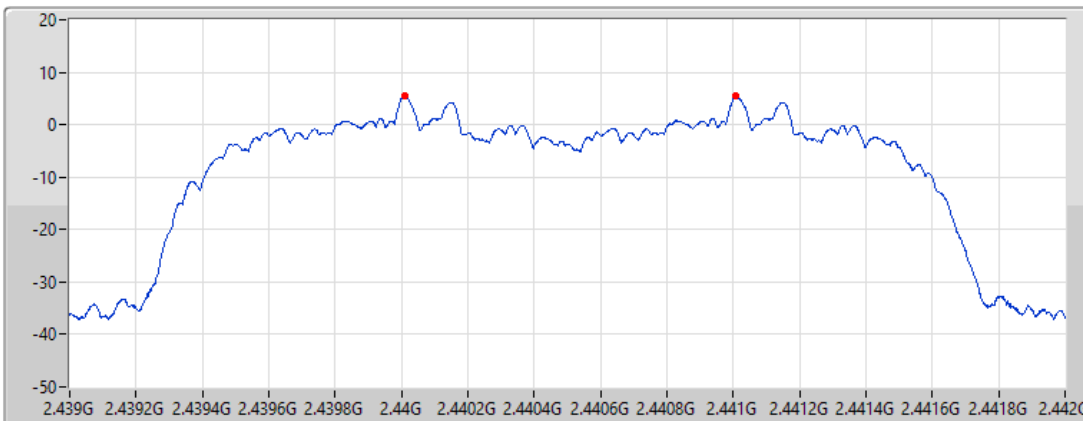
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402008G	2.403009G	1.0005M	853.146k


**BT-EDR(3Mbps)**

**Channel Separation-FS**

**2.44G/2.441GHz**

01/02/2023



Port 1 

Ch Freq  
2.44G/2.441G

Span  
3MHz

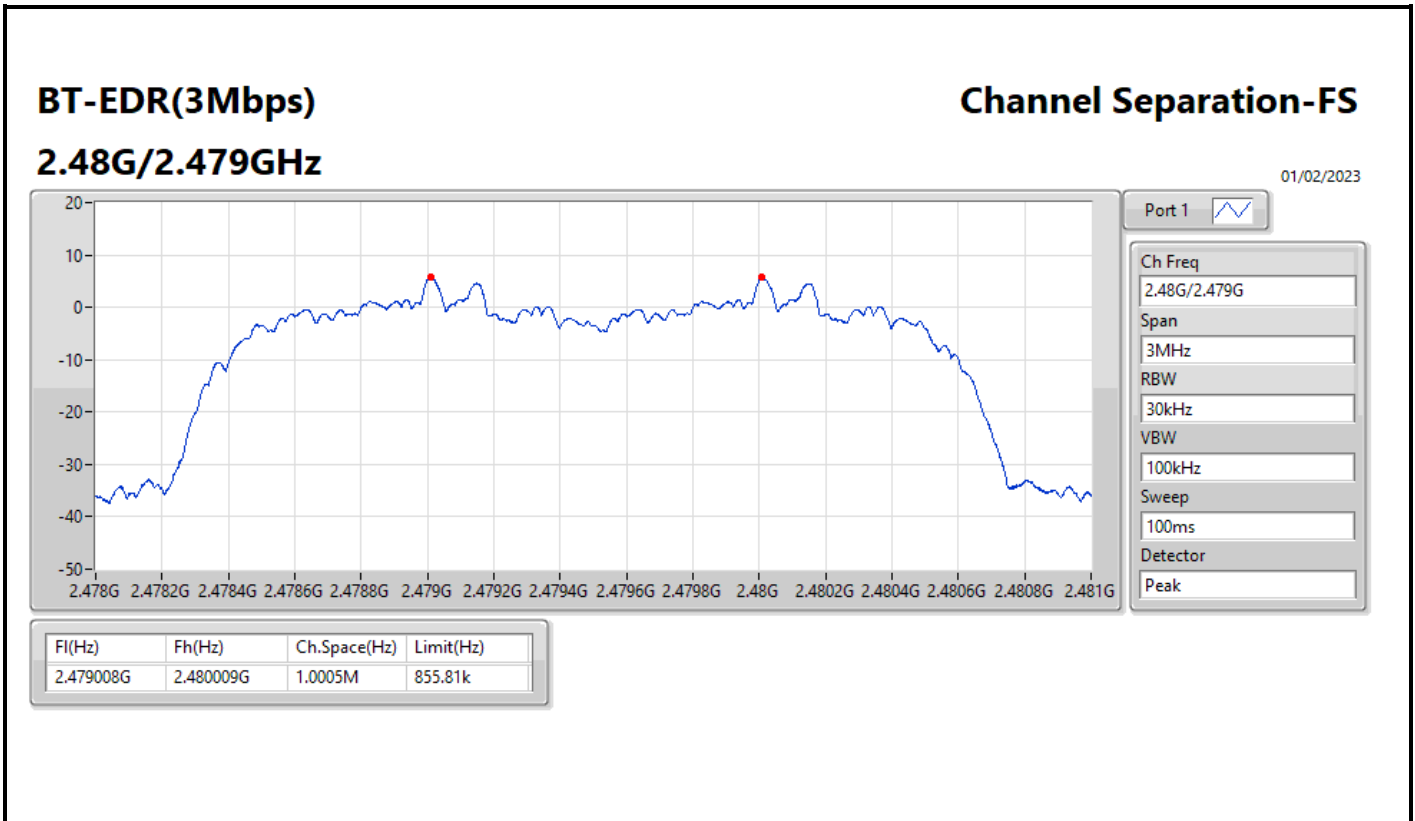
RBW  
30kHz

VBW  
100kHz

Sweep  
100ms

Detector  
Peak

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440008G	2.441007G	999k	853.146k





**Summary**

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	6.87	0.00486
BT-EDR(3Mbps)	4.74	0.00298
BT-EDR(2Mbps)	4.73	0.00297



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.562	6.87	21.00
2440MHz	Pass	2.562	6.55	21.00
2480MHz	Pass	2.562	6.79	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.562	4.65	21.00
2440MHz	Pass	2.562	4.65	21.00
2480MHz	Pass	2.562	4.73	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.562	4.60	21.00
2440MHz	Pass	2.562	4.66	21.00
2480MHz	Pass	2.562	4.74	21.00

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



**Summary**

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	7.08	0.00511
BT-EDR(3Mbps)	7.02	0.00504
BT-EDR(2Mbps)	6.52	0.00449

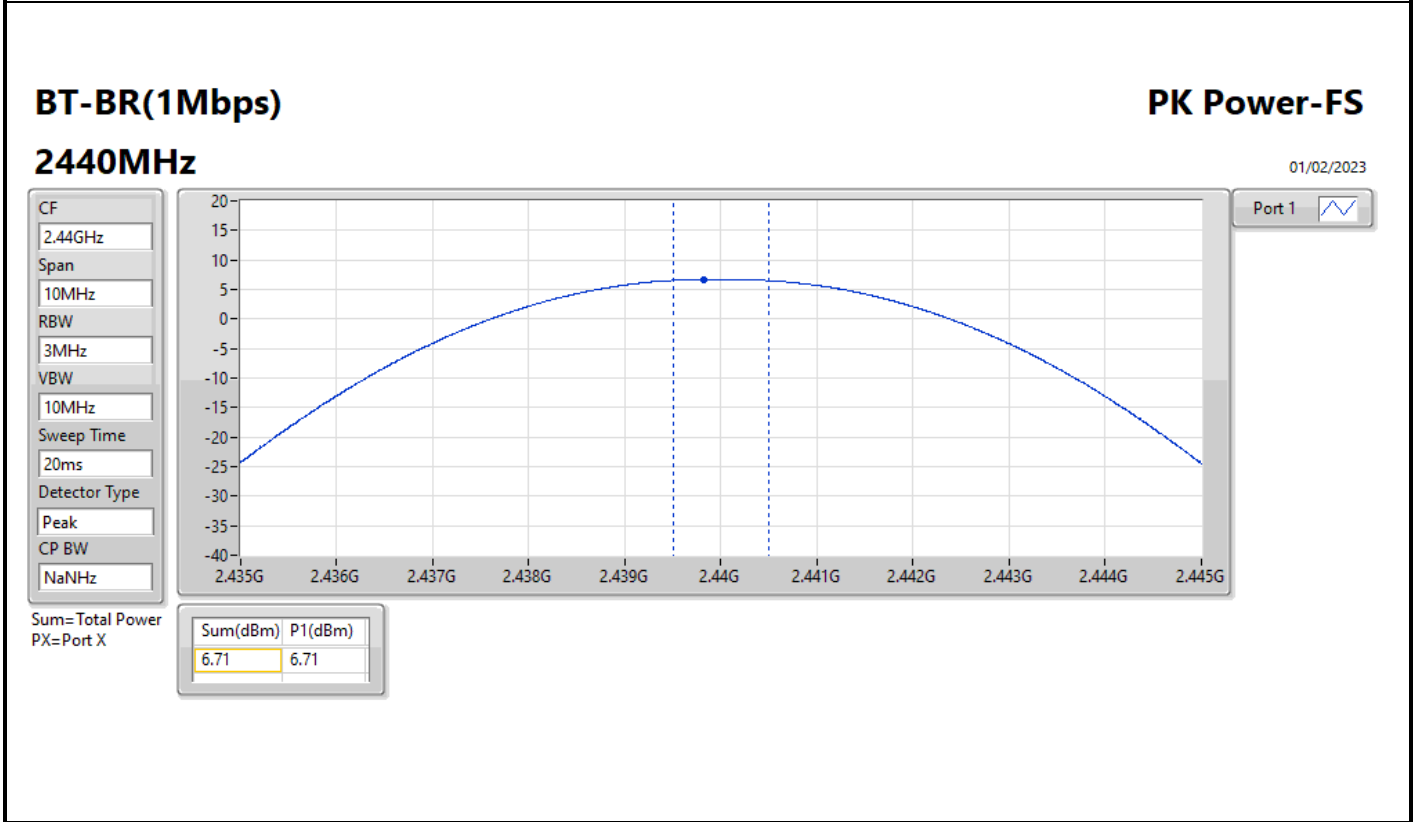
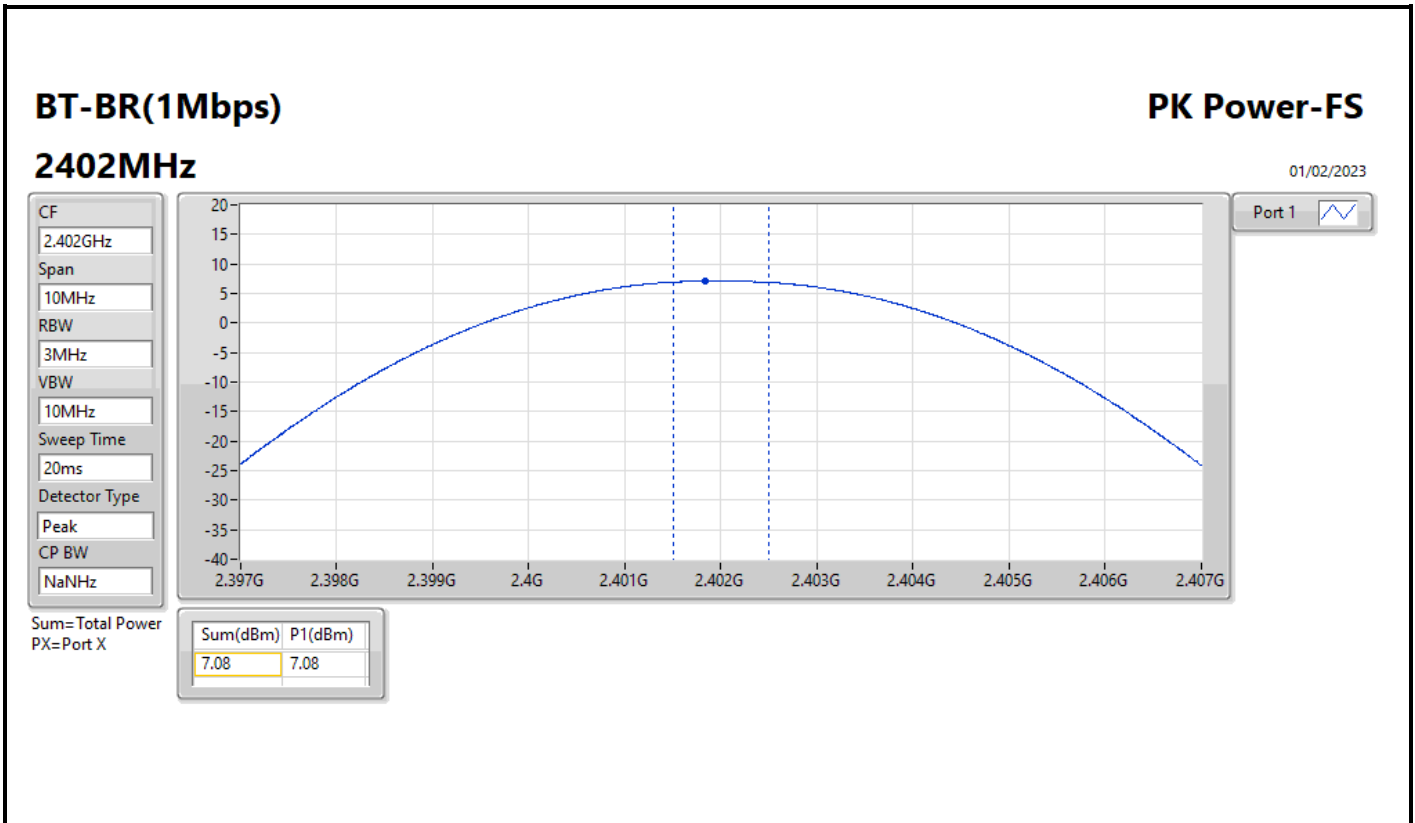


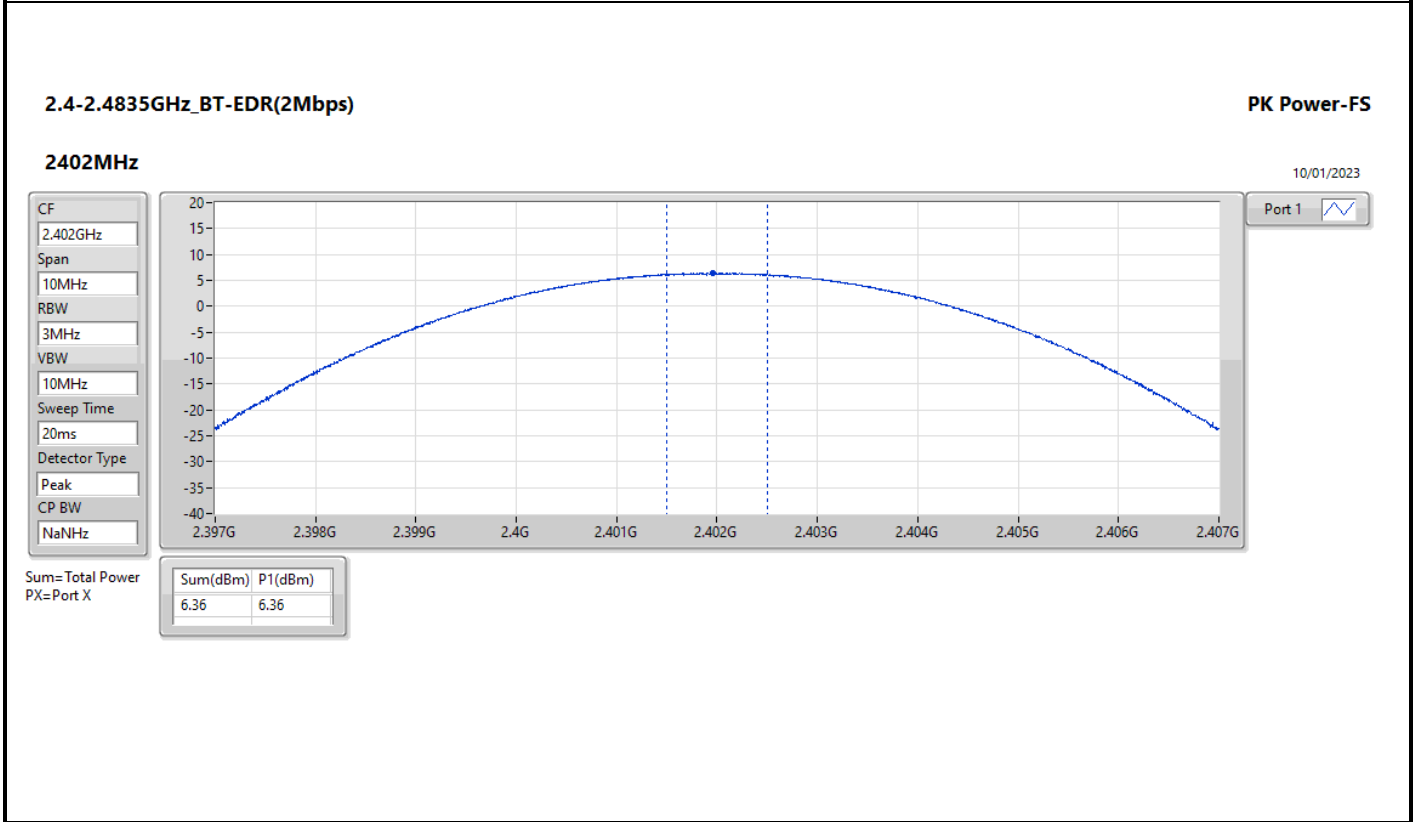
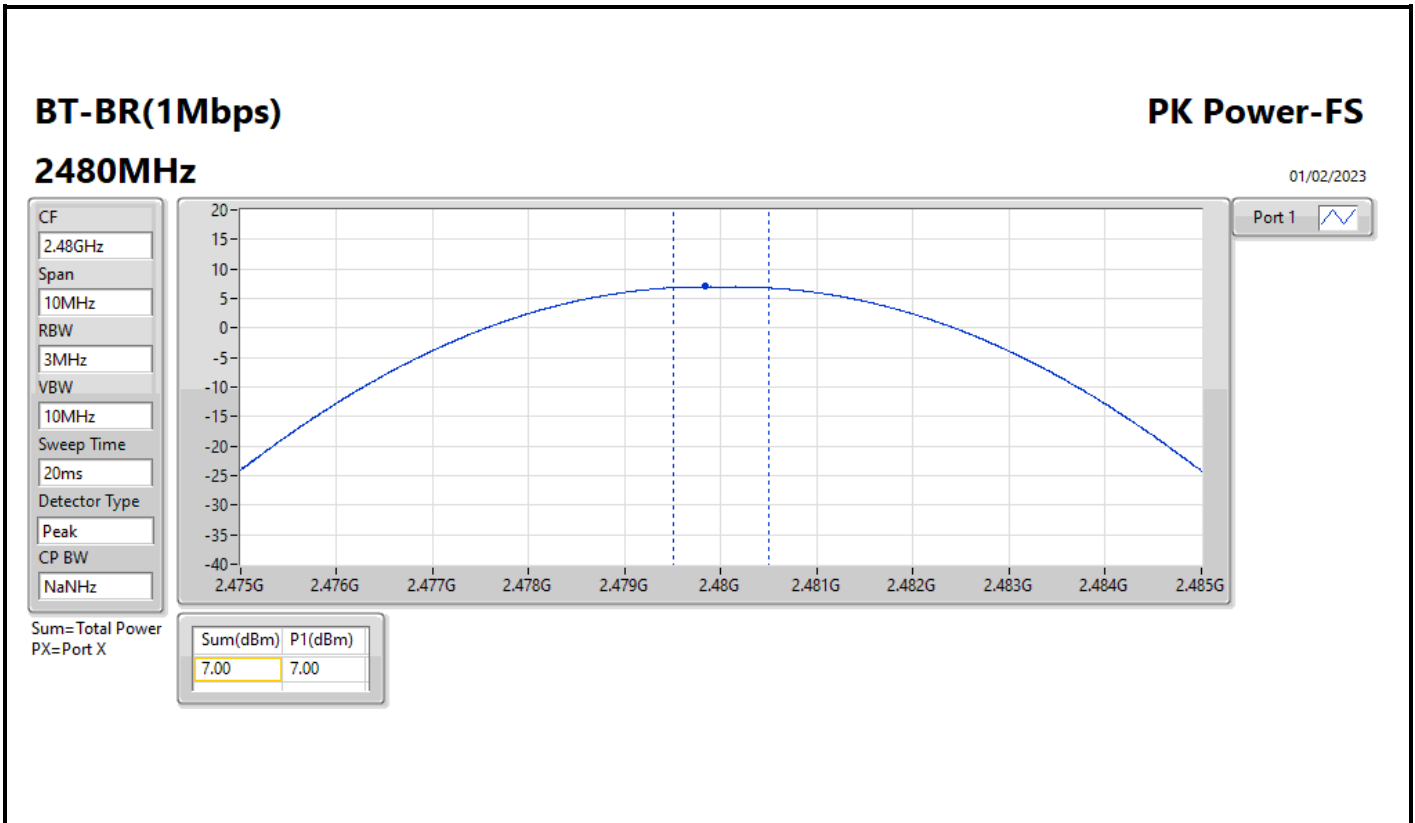


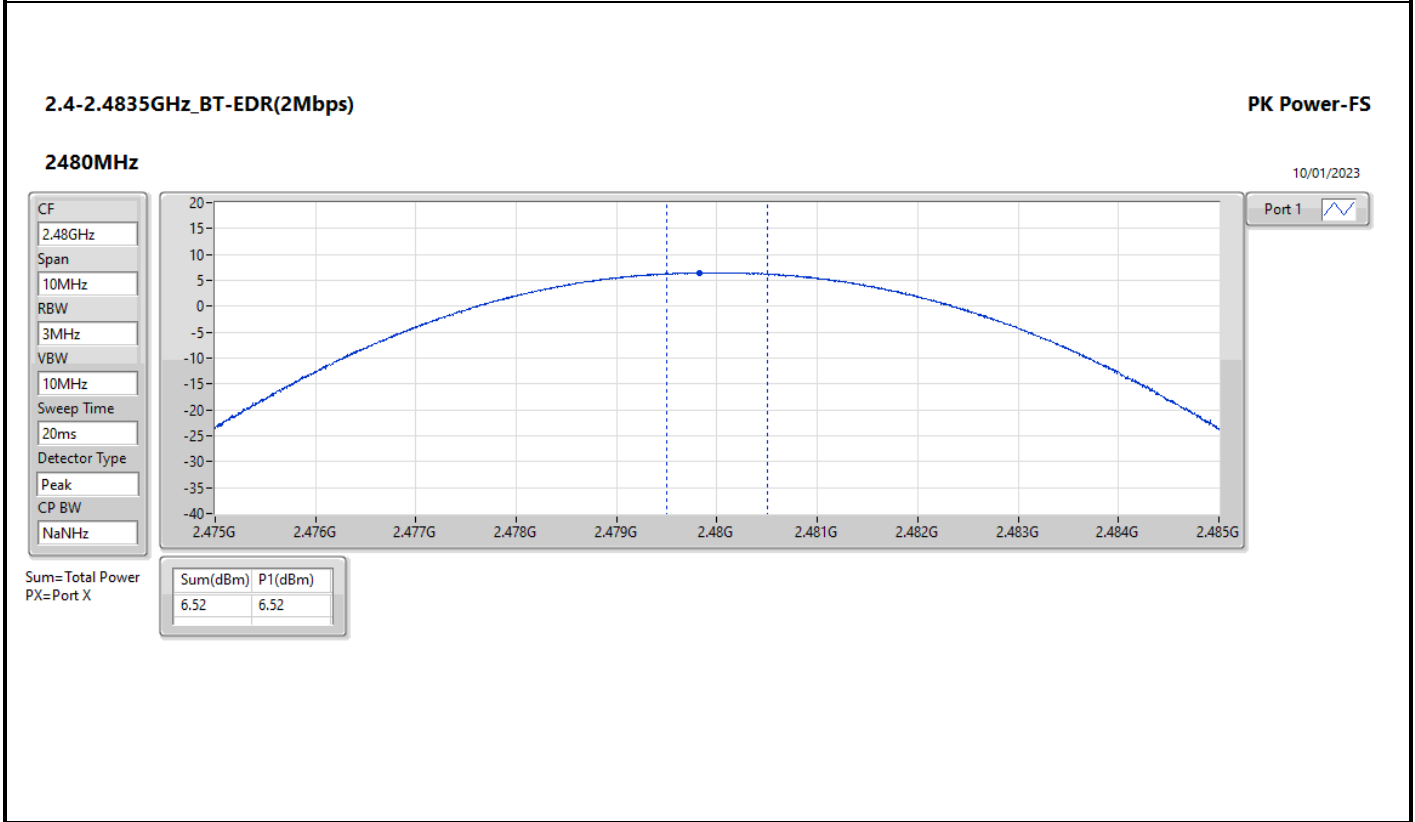
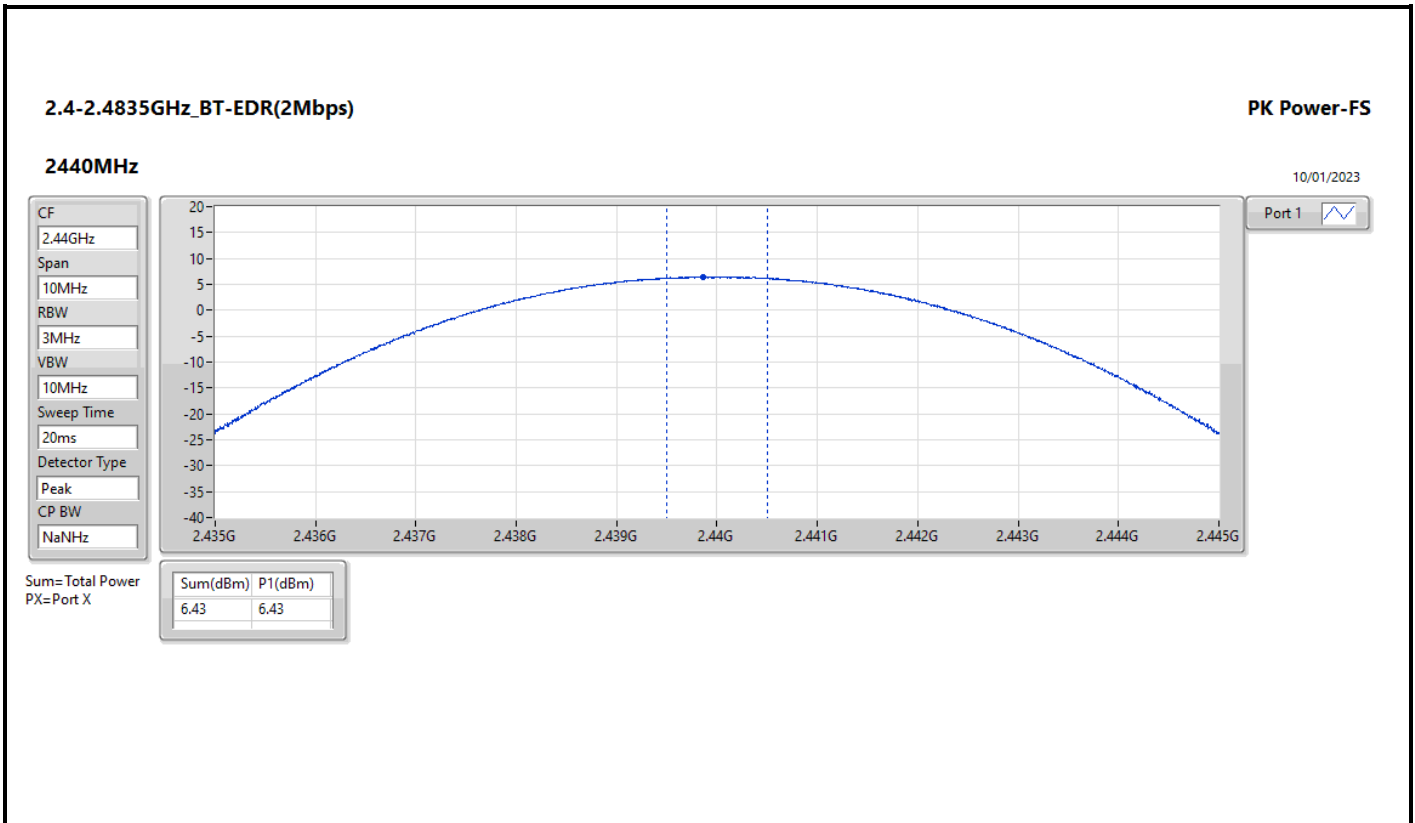
Result

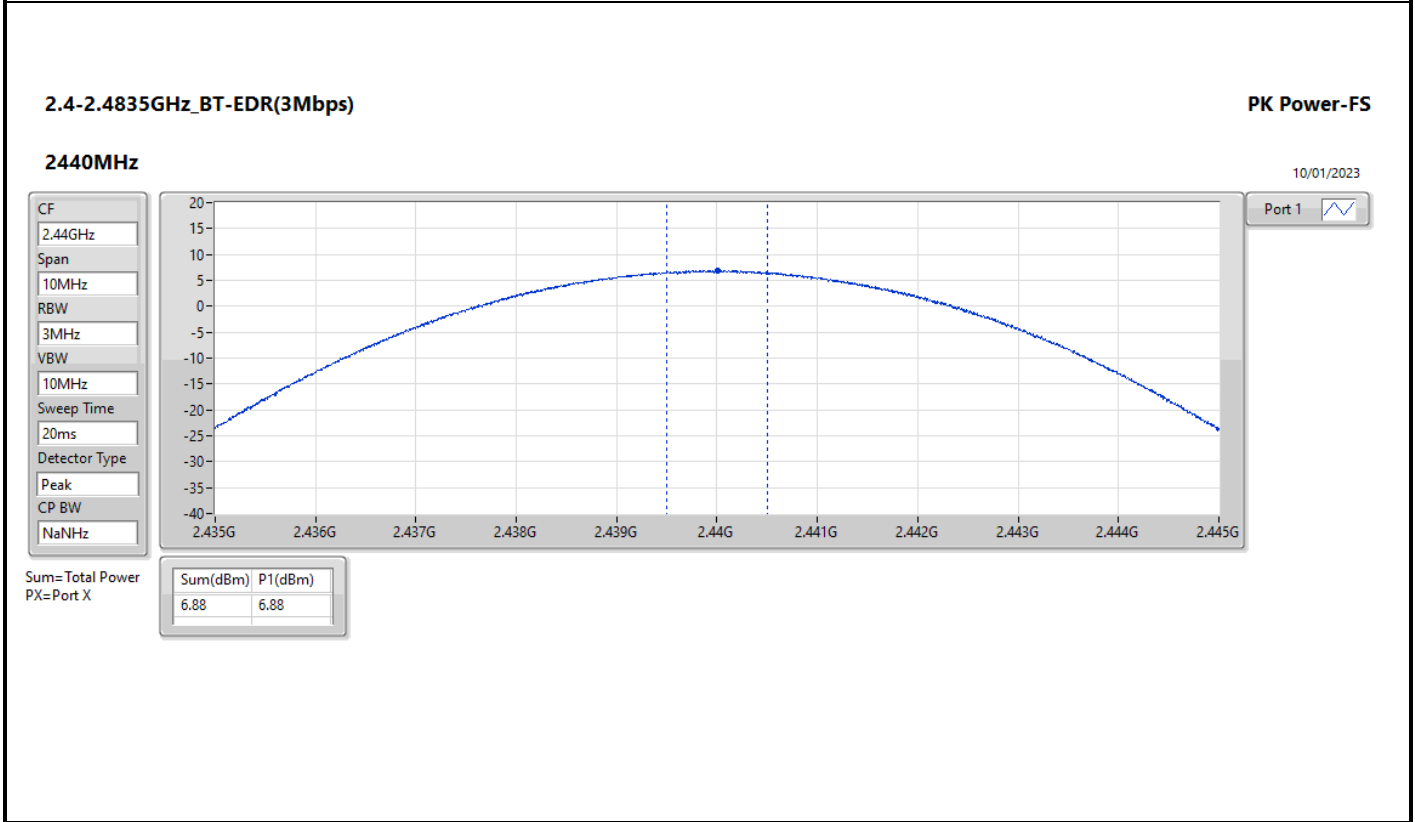
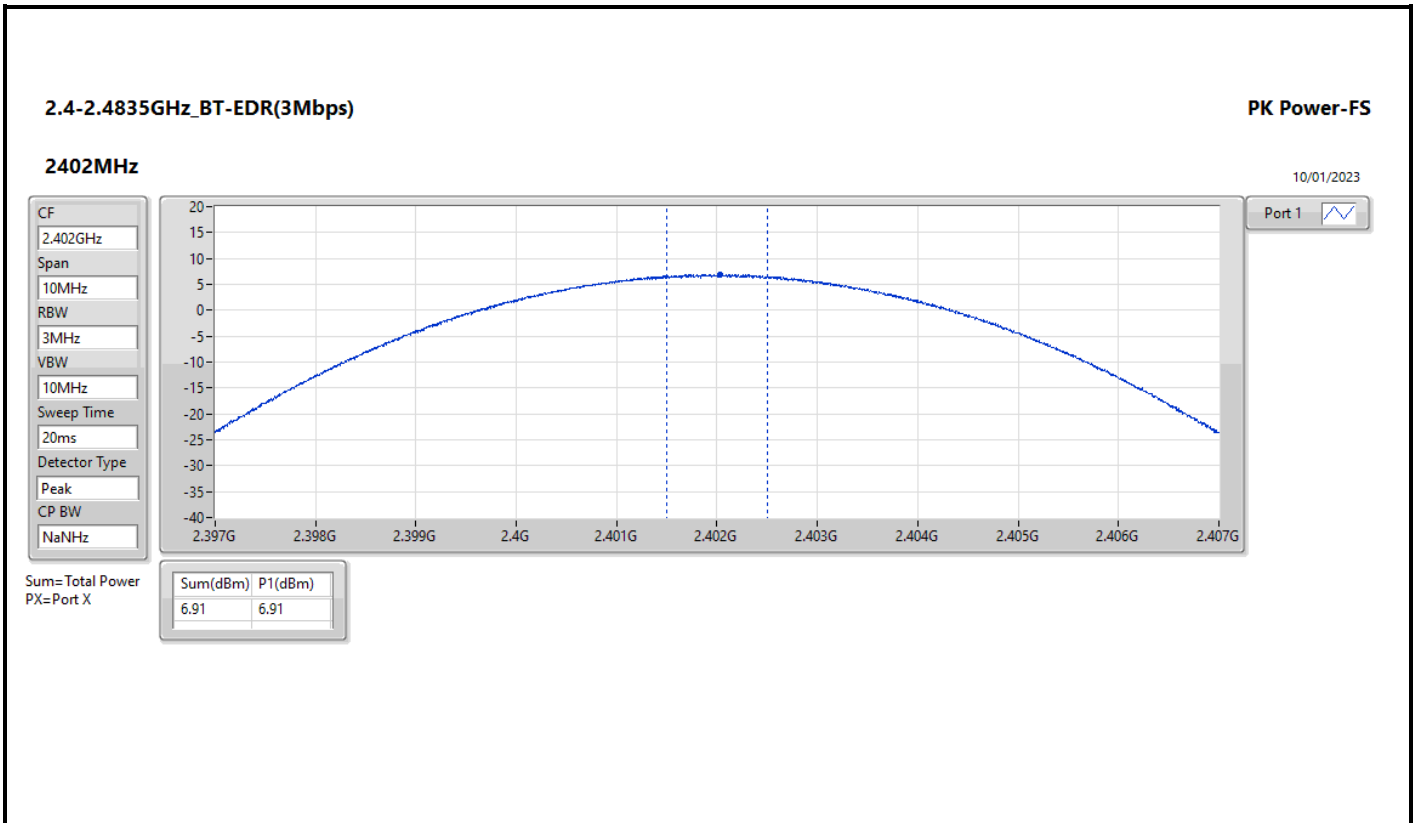
Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.562	7.08	21.00
2440MHz	Pass	2.562	6.71	21.00
2480MHz	Pass	2.562	7.00	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.562	6.36	21.00
2440MHz	Pass	2.562	6.43	21.00
2480MHz	Pass	2.562	6.52	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.562	6.91	21.00
2440MHz	Pass	2.562	6.88	21.00
2480MHz	Pass	2.562	7.02	21.00

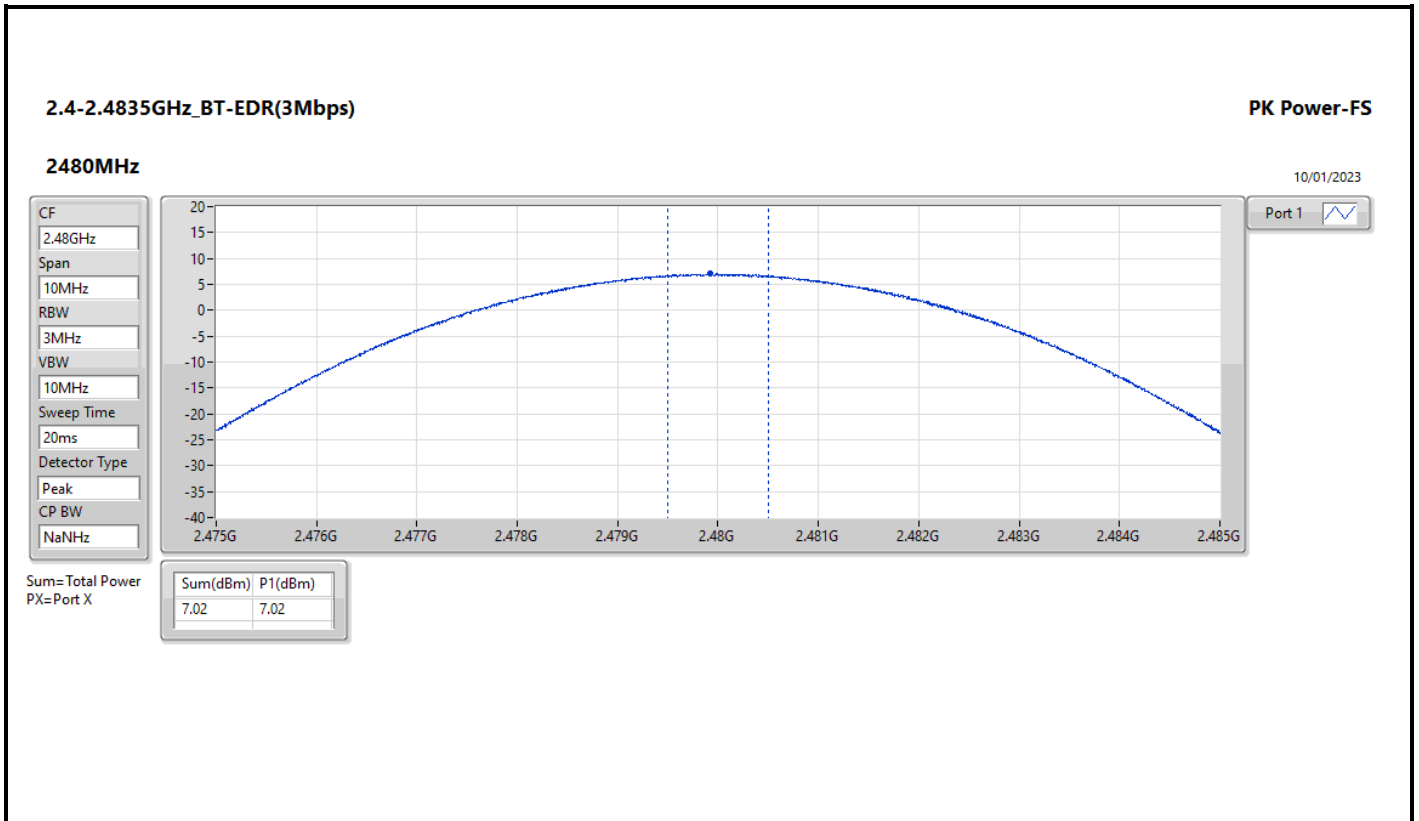
DG = Directional Gain; Port X = Port X output power













**Summary**

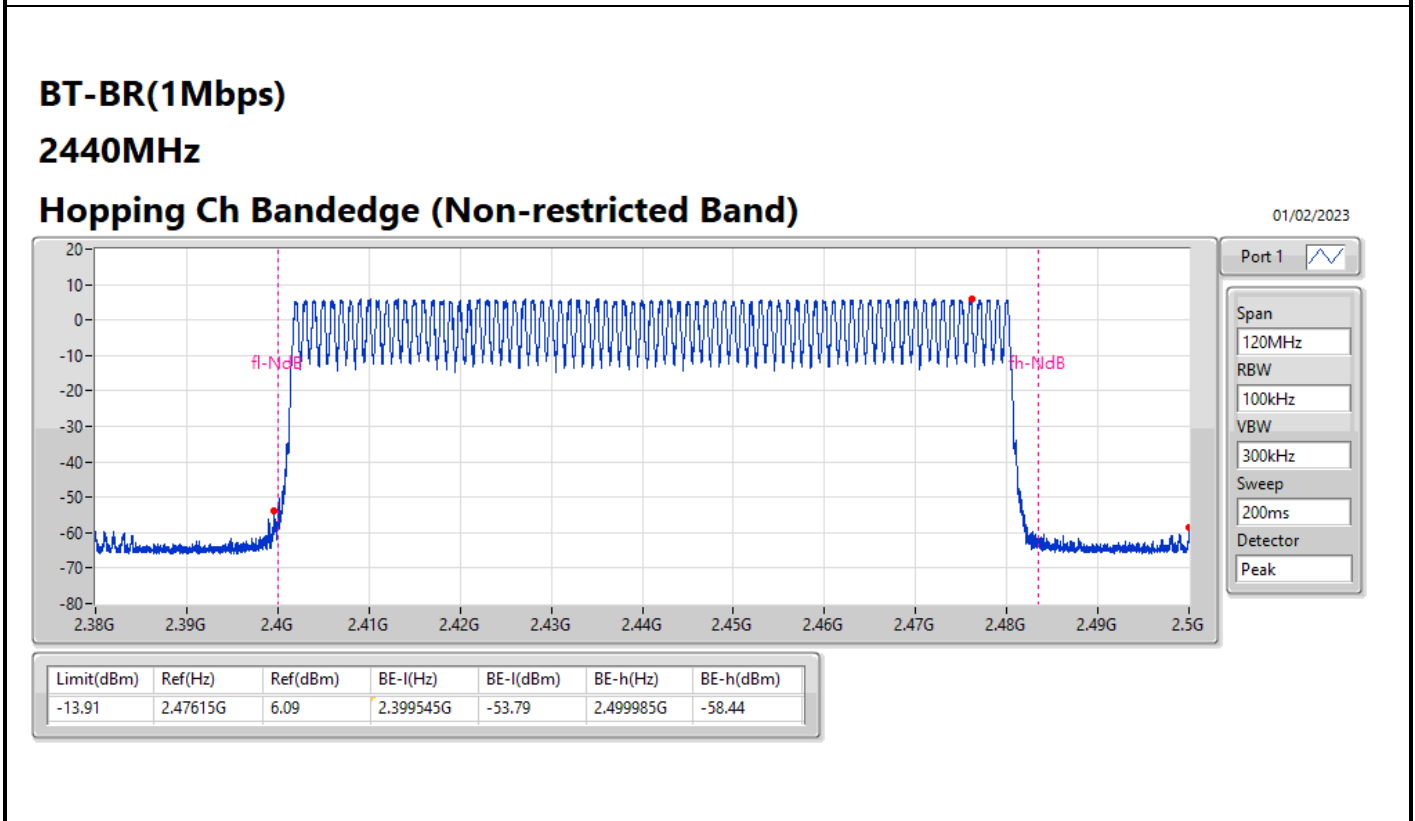
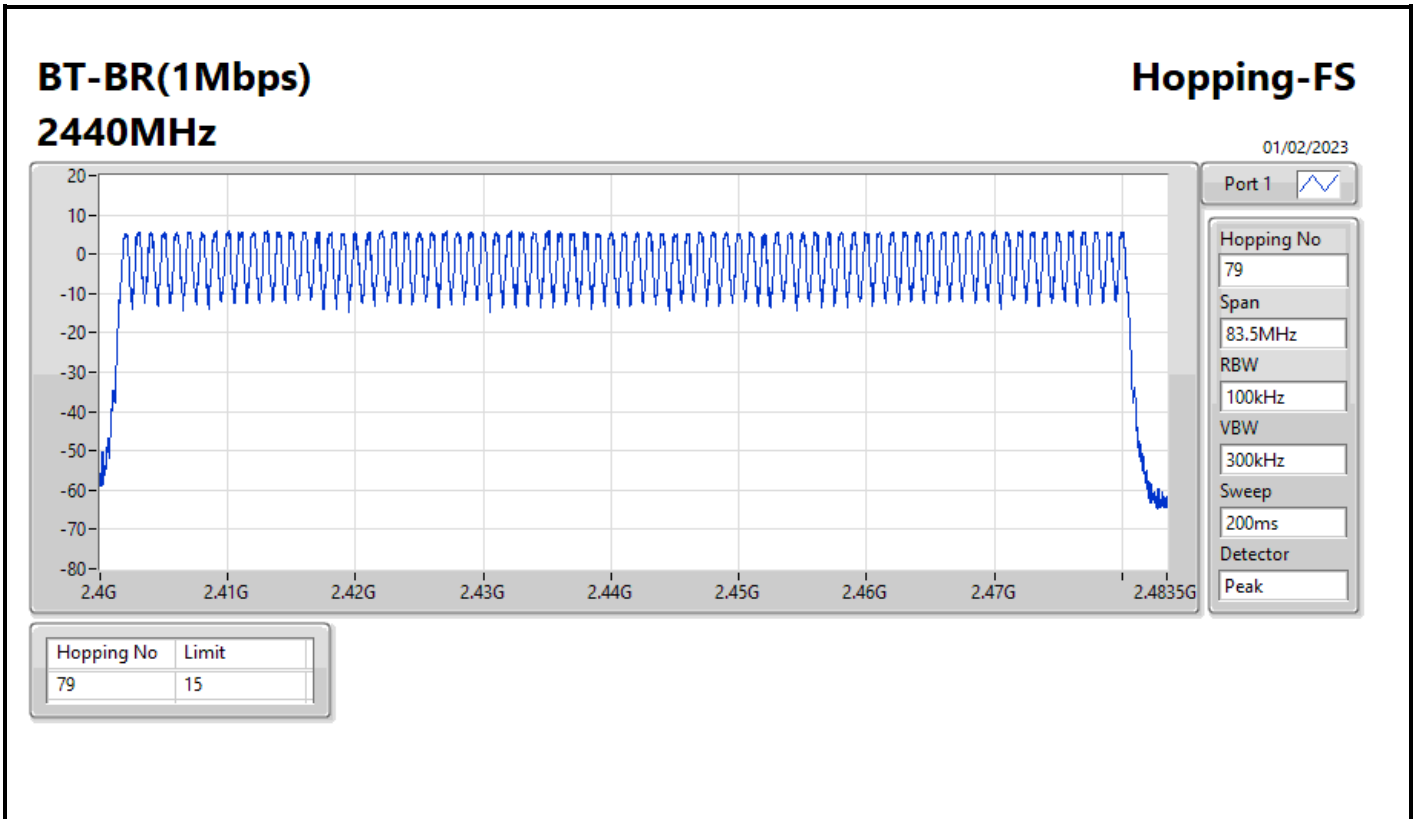
Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79



**Result**

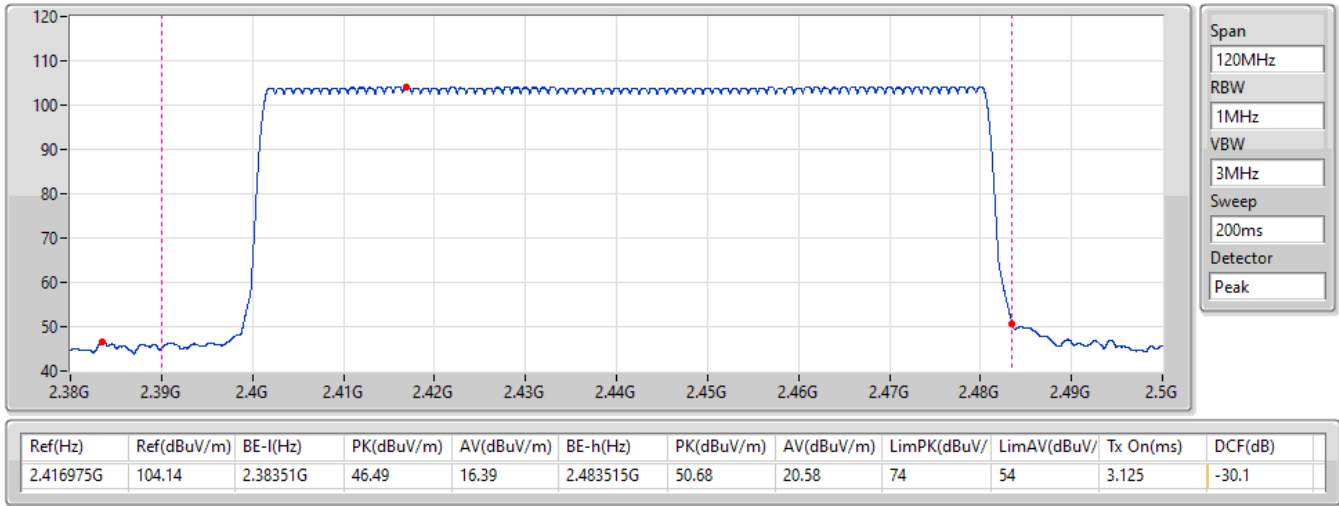
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15





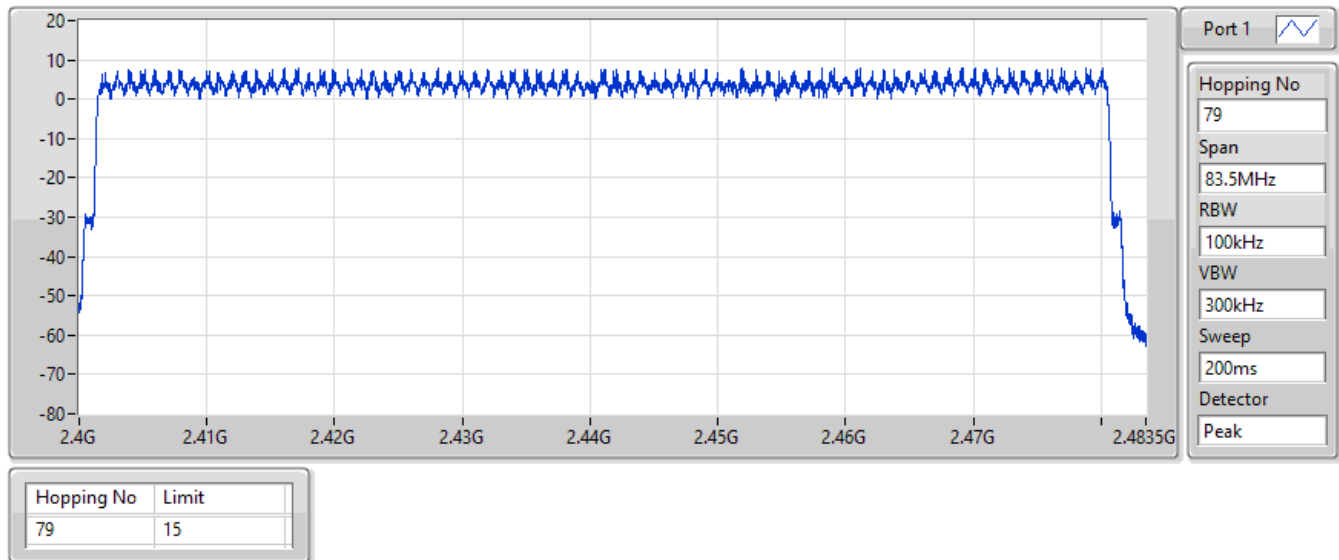
**BT-BR(1Mbps)**  
**2440MHz**  
**Hopping Ch Bandedge (Restricted Band)**

01/02/2023



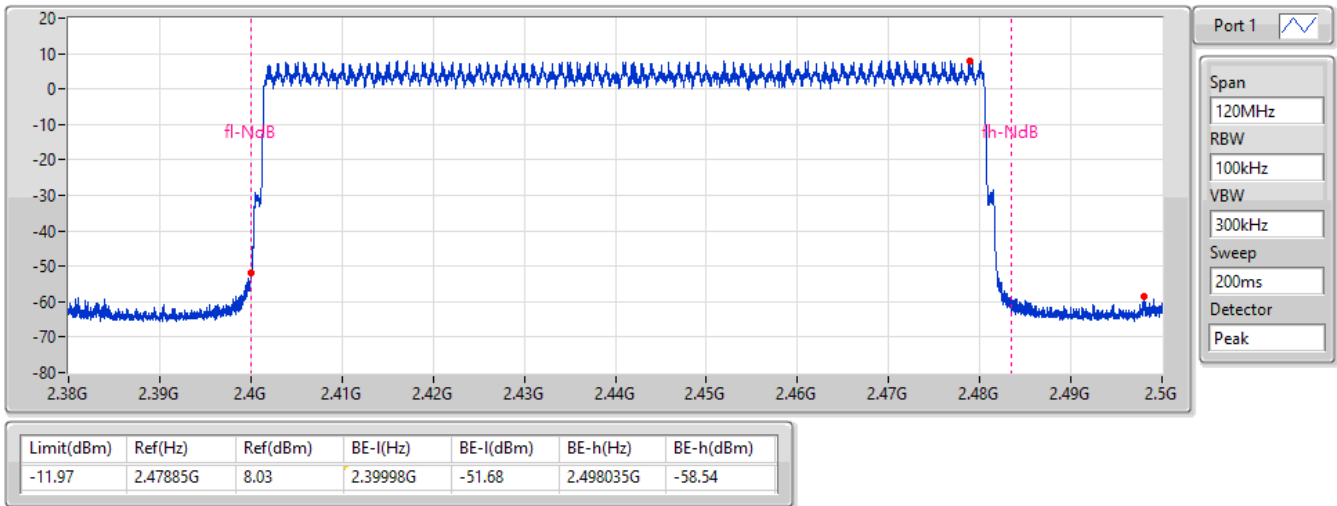
**BT-EDR(2Mbps)** **Hopping-FS**  
**2440MHz**

01/02/2023



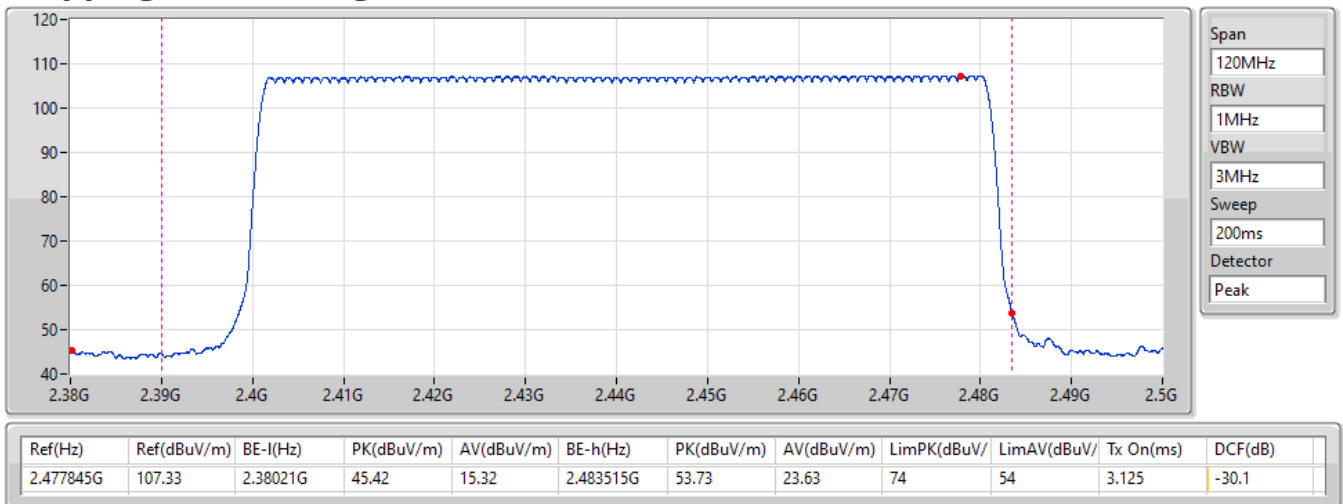
**BT-EDR(2Mbps)**  
**2440MHz**  
**Hopping Ch Bandedge (Non-restricted Band)**

01/02/2023



**BT-EDR(2Mbps)**  
**2440MHz**  
**Hopping Ch Bandedge (Restricted Band)**

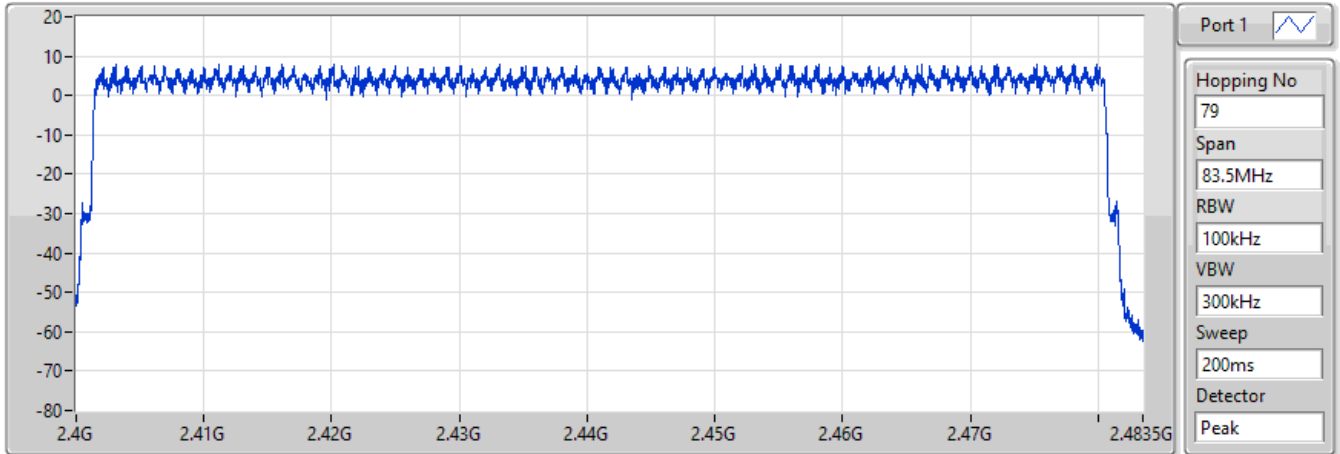
01/02/2023



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

**Hopping-FS**

01/02/2023

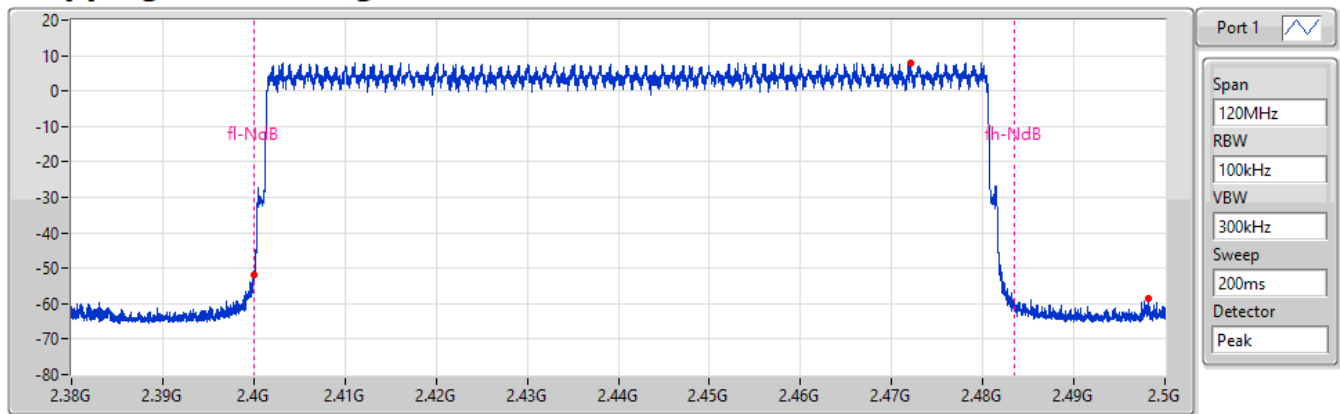


Hopping No	Limit
79	15

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

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

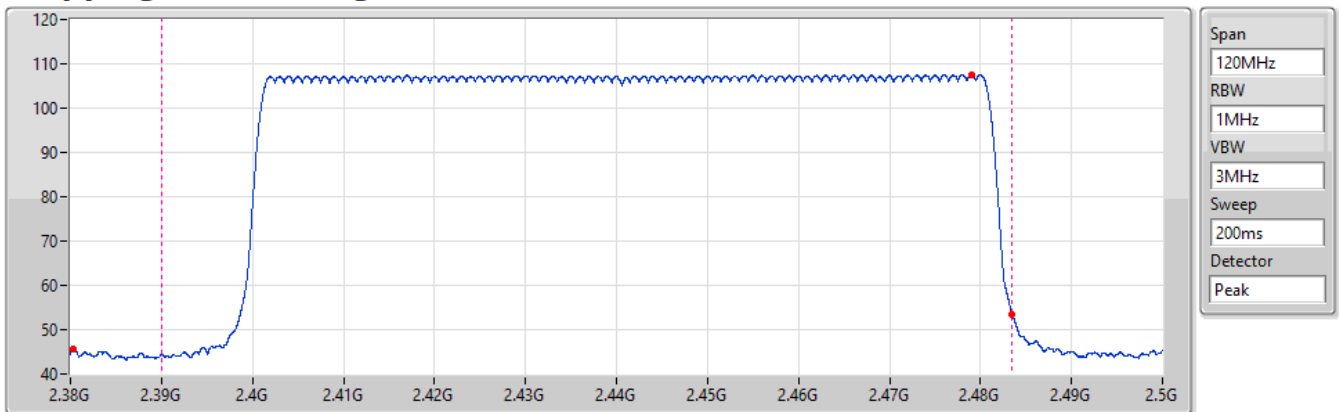
01/02/2023



Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-11.96	2.472145G	8.04	2.39995G	-51.68	2.498125G	-58.69

**BT-EDR(3Mbps)**  
**2440MHz**  
**Hopping Ch Bandedge (Restricted Band)**

01/02/2023



Span  
  
 RBW  
  
 VBW  
  
 Sweep  
  
 Detector

Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.478985G	107.53	2.380375G	45.6	15.5	2.483515G	53.42	23.32	74	54	3.125	-30.1



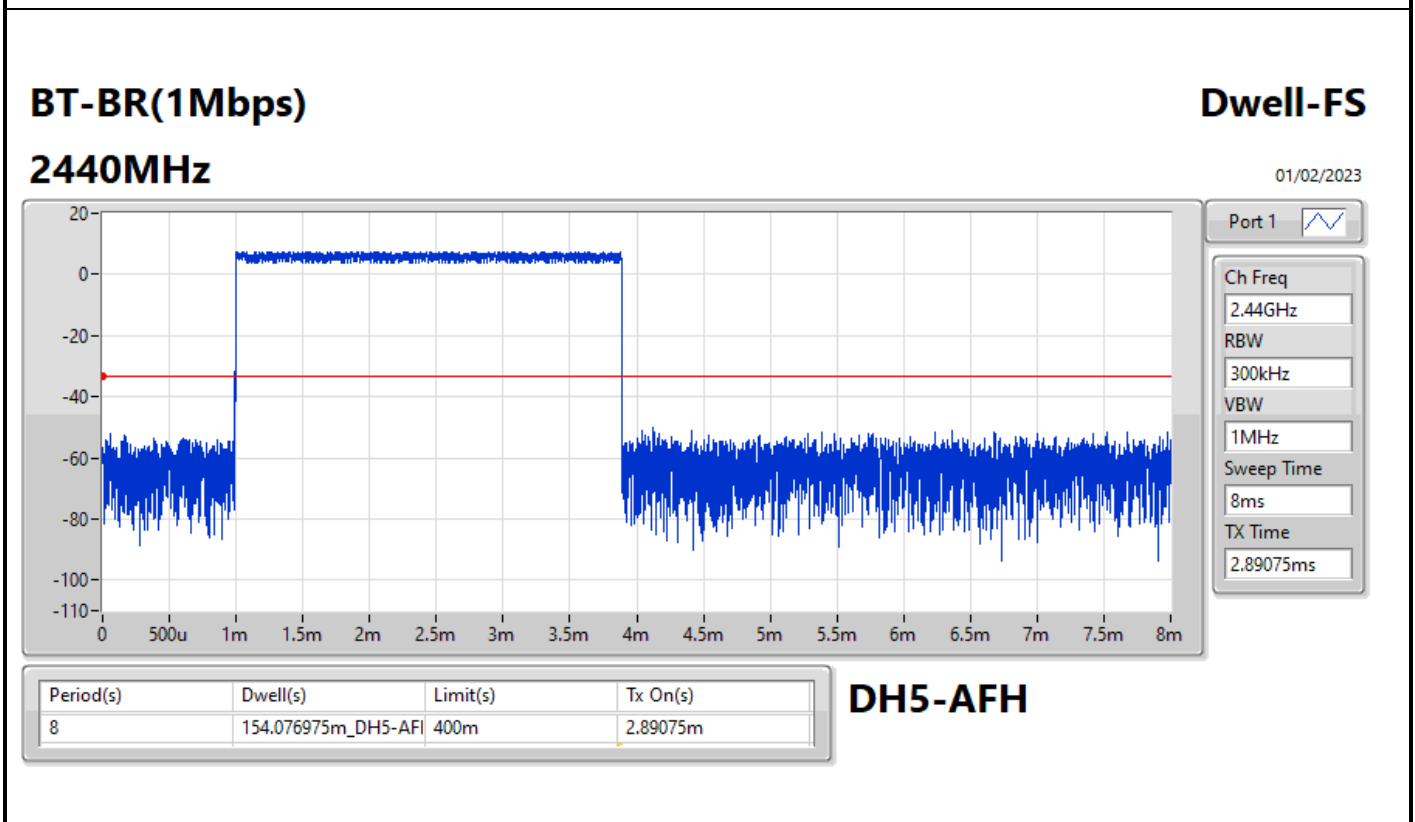
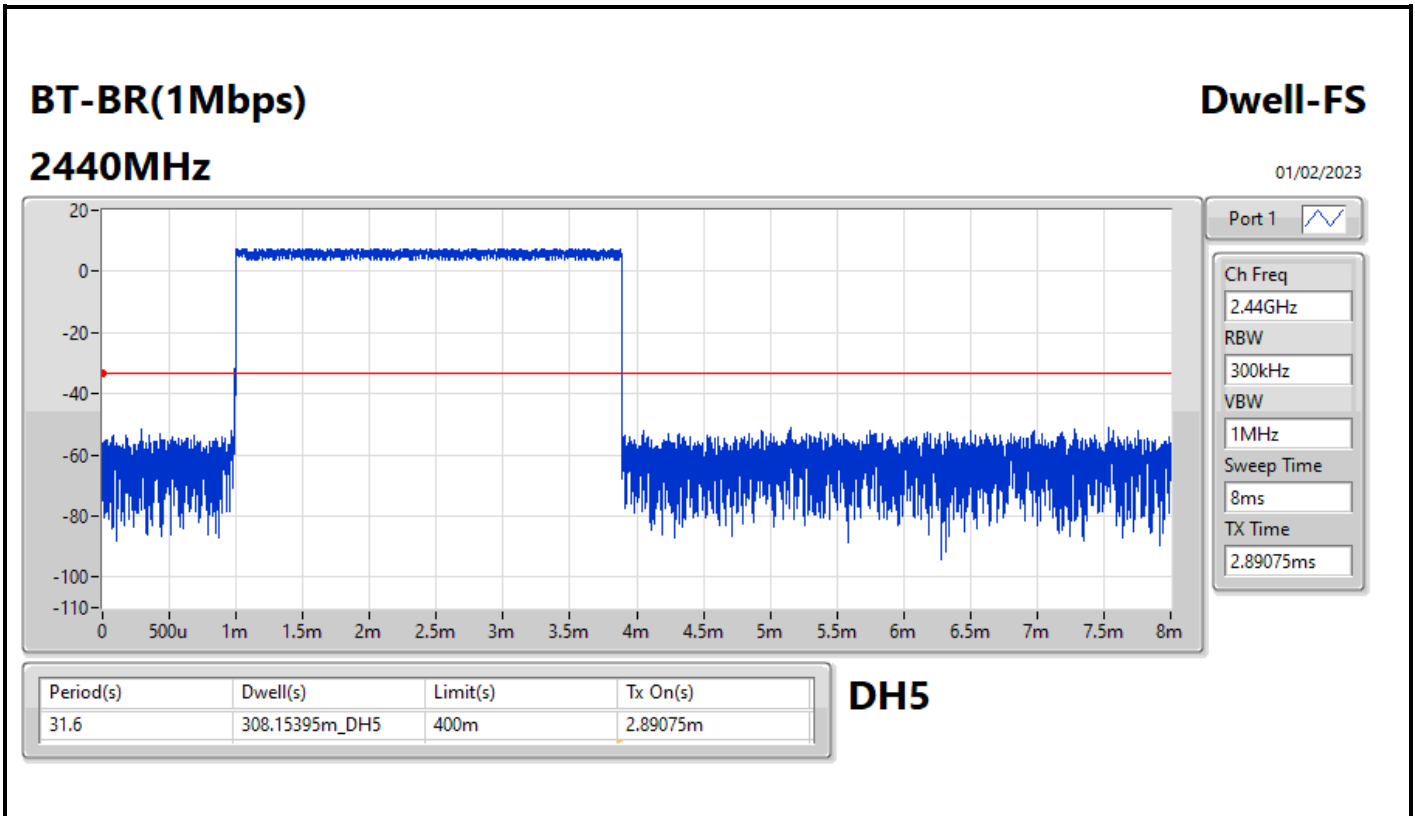
**Summary**

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	308.15395m_DH5
BT-EDR(2Mbps)	308.26055m_DH5
BT-EDR(3Mbps)	308.4471m_DH5

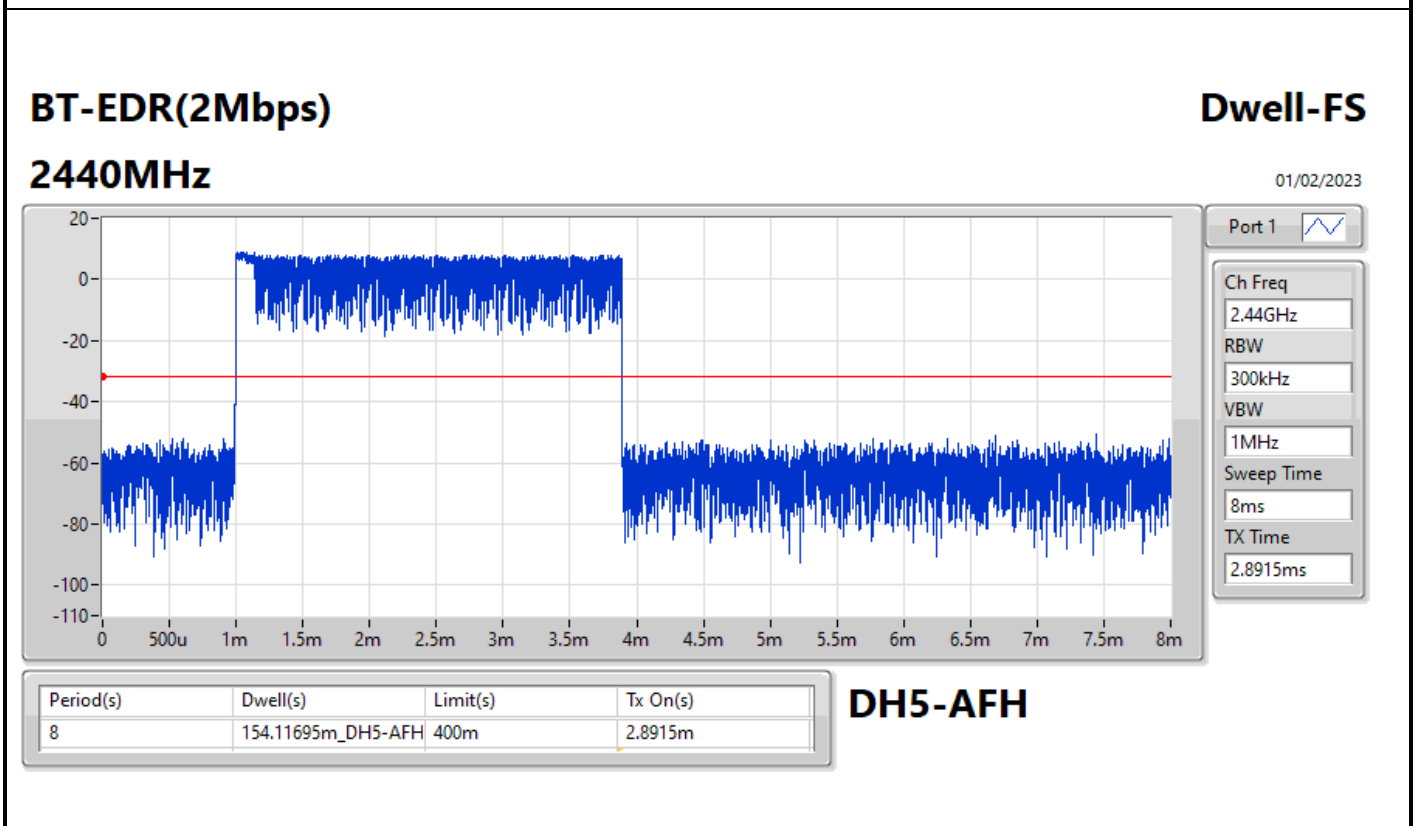
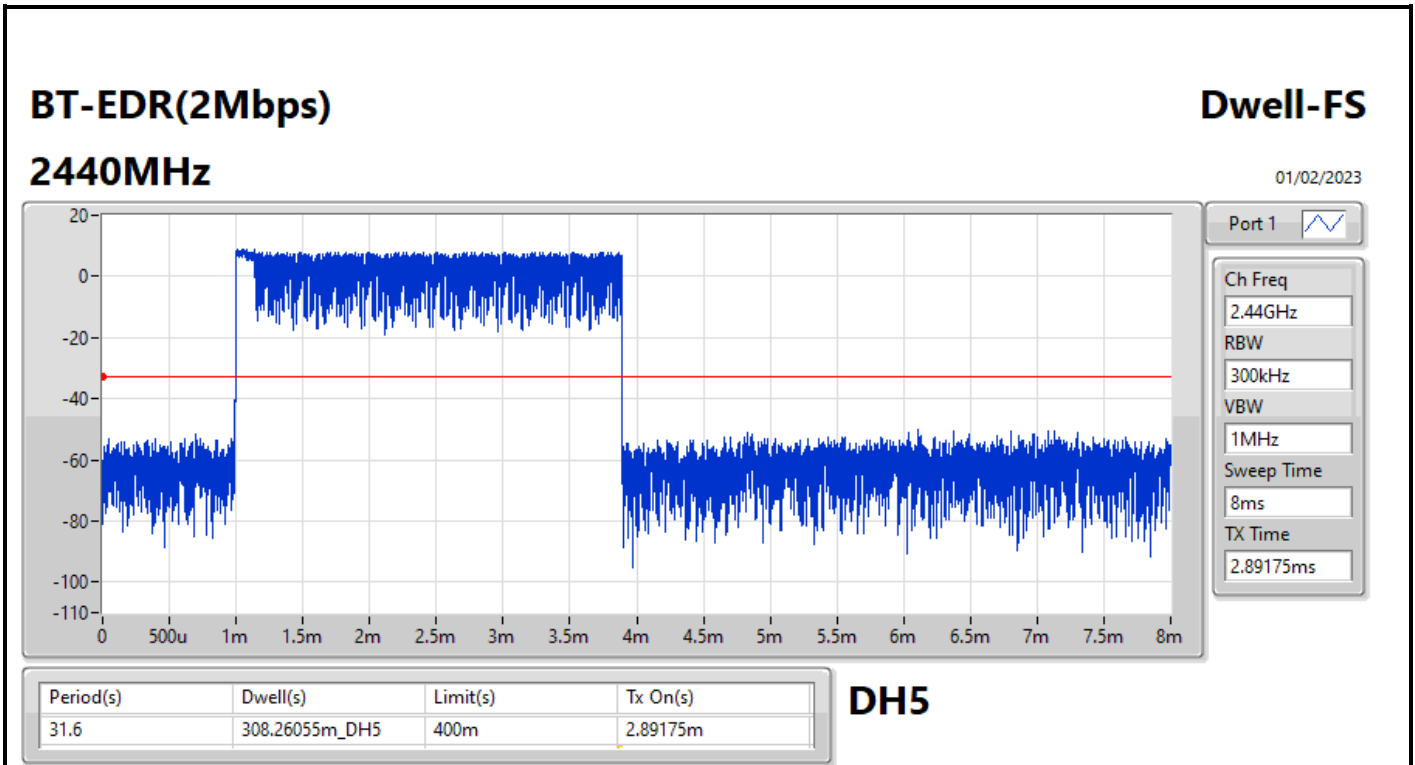


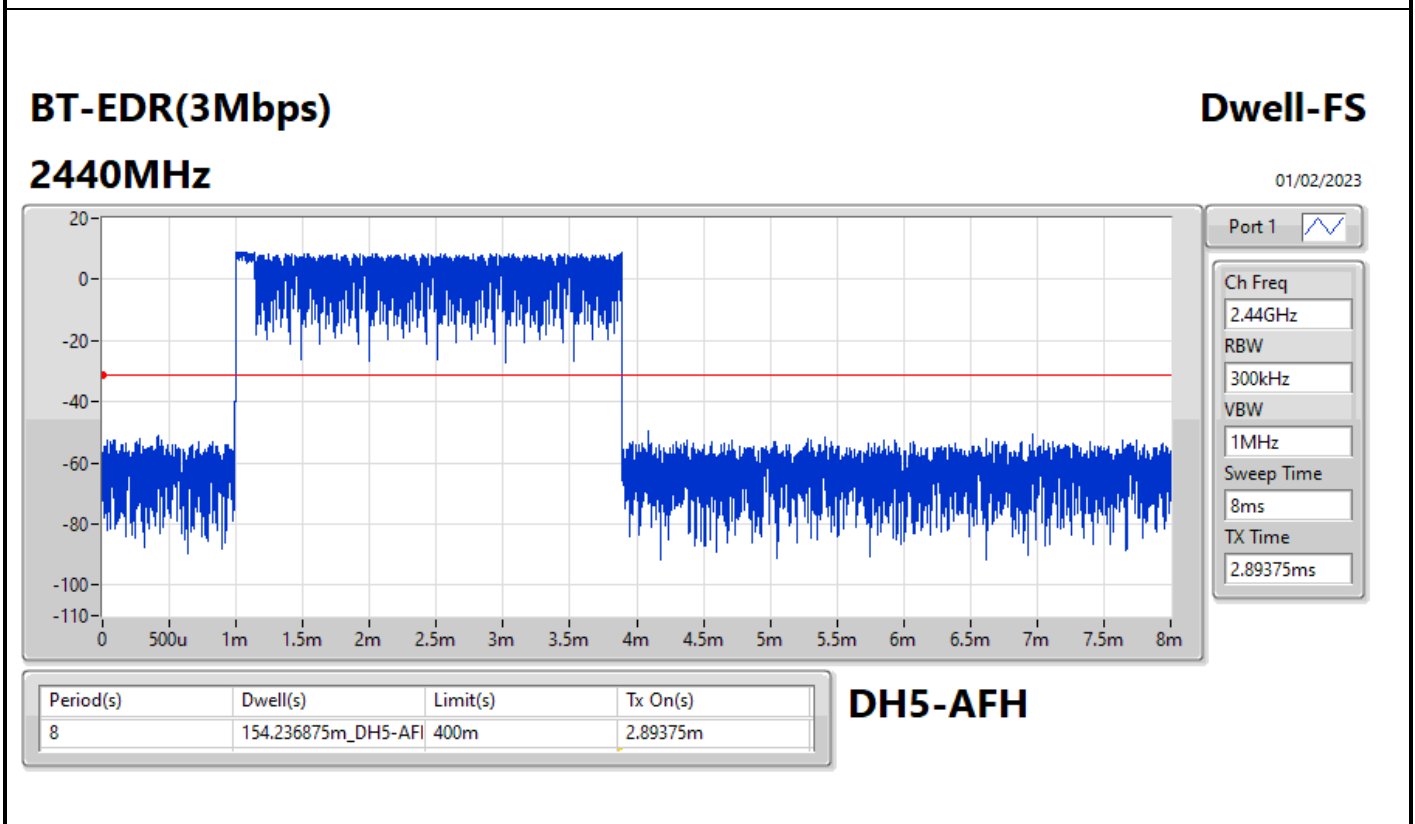
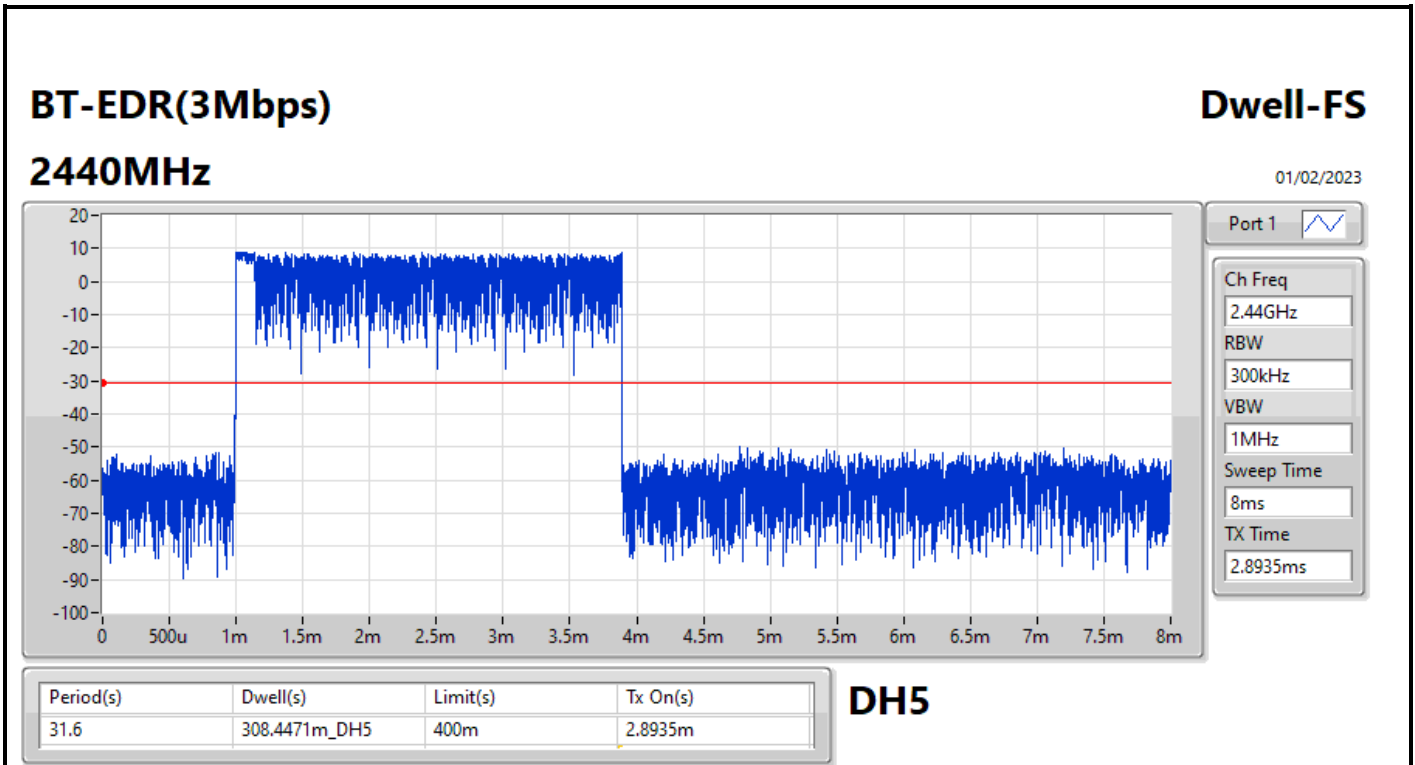
Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.15395m_DH5	400m	2.89075m
2440MHz	Pass	8	154.076975m_DH5-AFH	400m	2.89075m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.26055m_DH5	400m	2.89175m
2440MHz	Pass	8	154.11695m_DH5-AFH	400m	2.8915m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.4471m_DH5	400m	2.8935m
2440MHz	Pass	8	154.236875m_DH5-AFH	400m	2.89375m











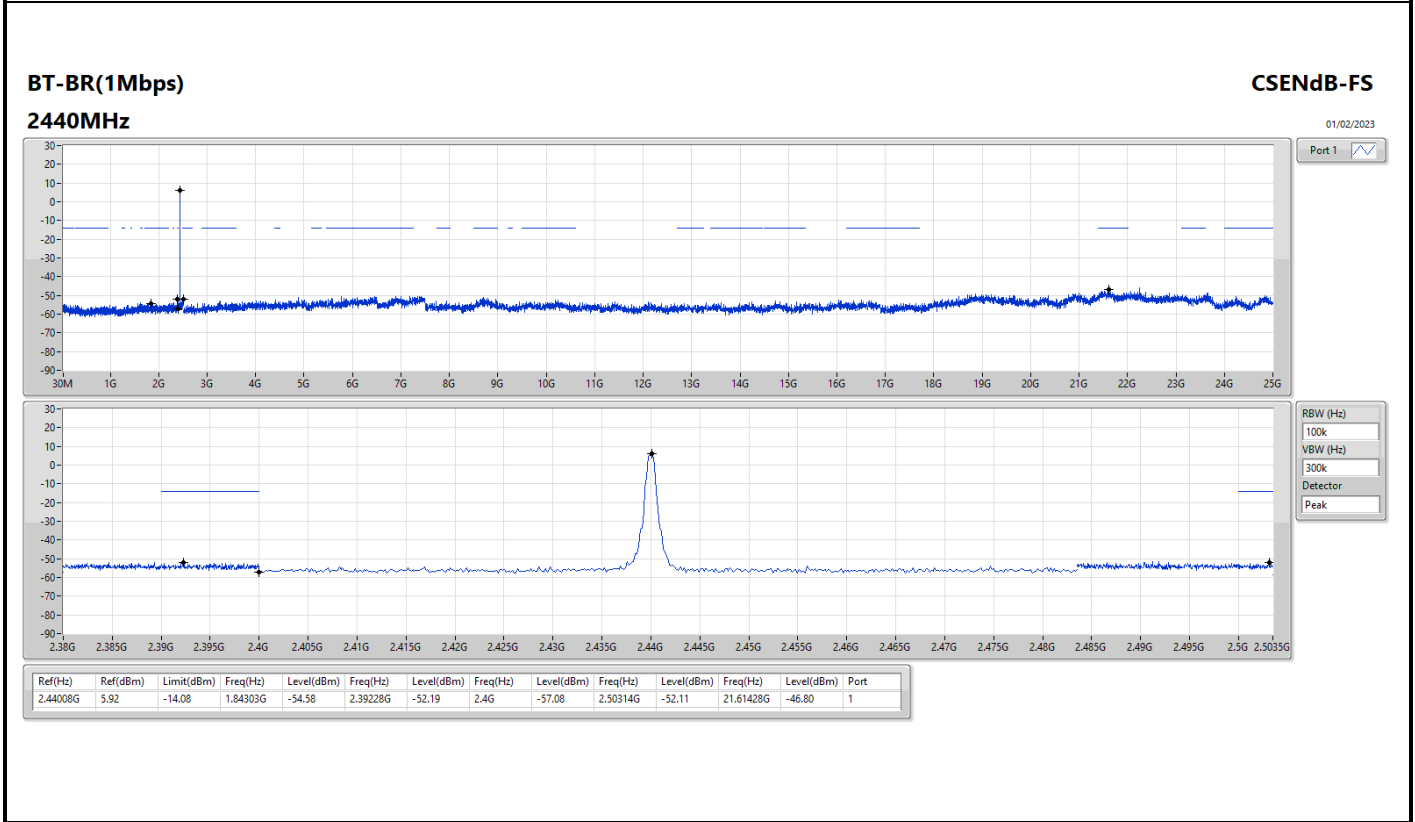
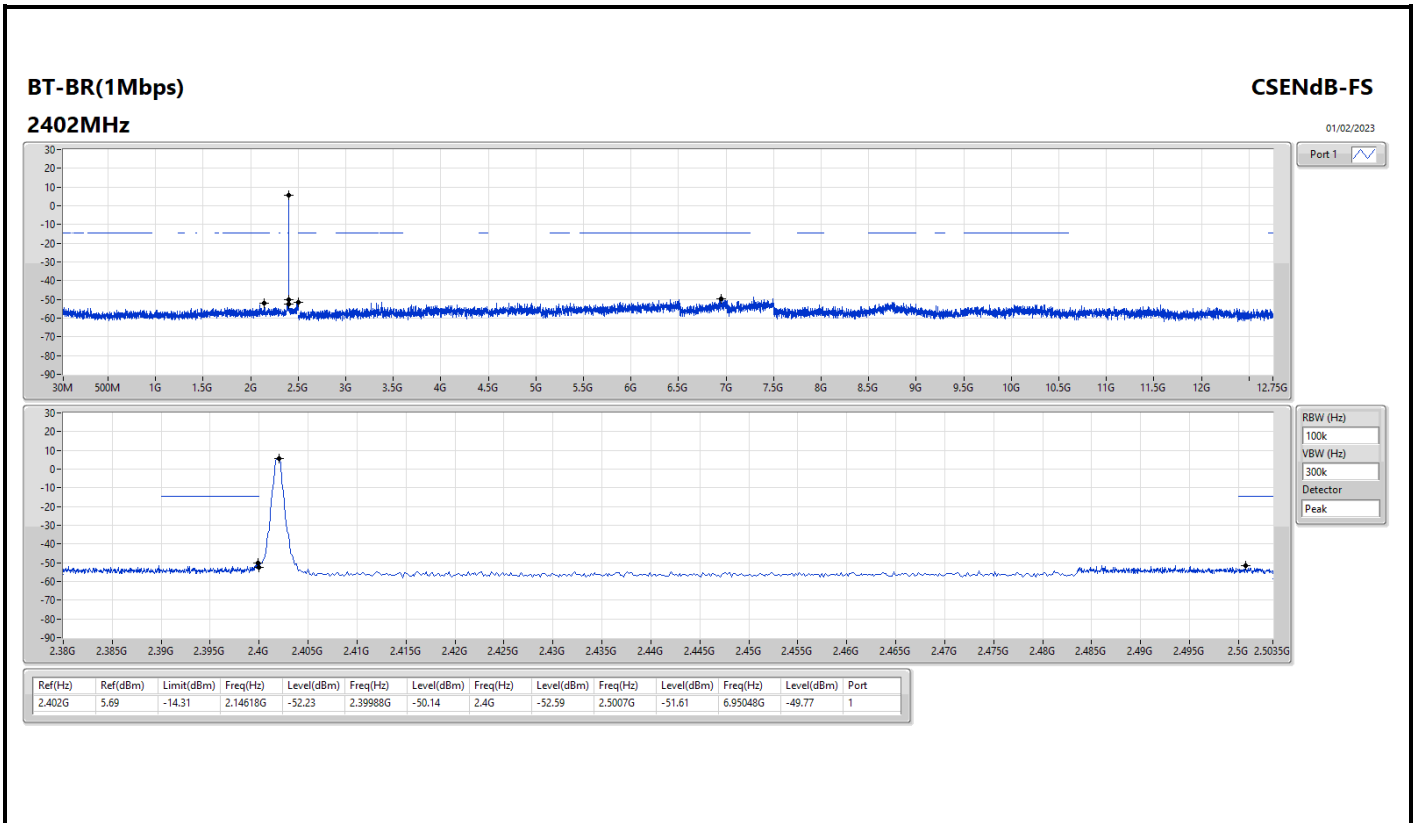
Summary

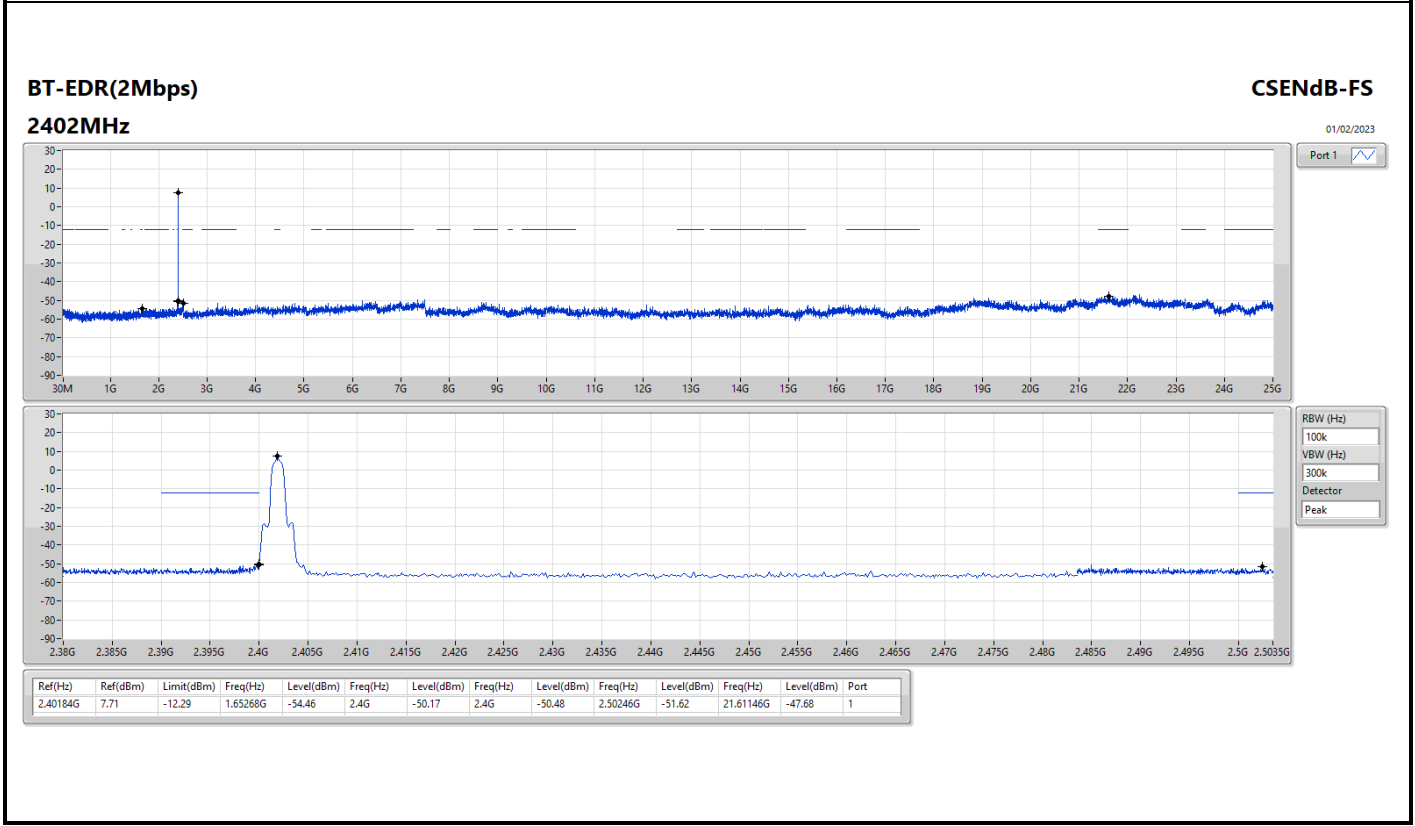
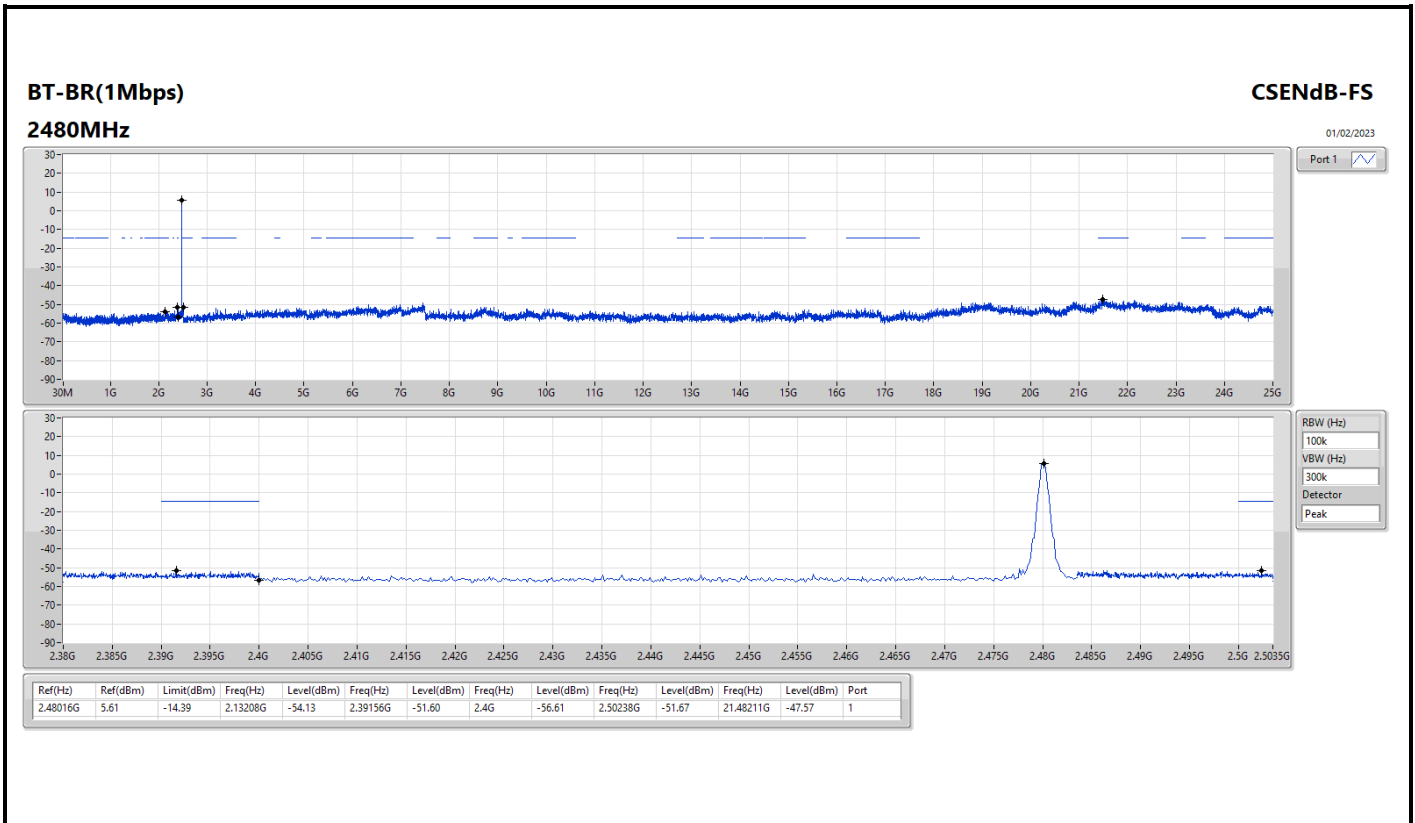
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.402G	5.69	-14.31	2.14618G	-52.23	2.39988G	-50.14	2.4G	-52.59	2.5007G	-51.61	6.95048G	-49.77	1
BT-EDR(2Mbps)	Pass	2.40184G	7.71	-12.29	1.65268G	-54.46	2.4G	-50.17	2.4G	-50.48	2.50246G	-51.62	21.61146G	-47.68	1
BT-EDR(3Mbps)	Pass	2.40184G	7.36	-12.64	55.85M	-53.69	2.39996G	-48.79	2.4G	-48.30	2.50118G	-52.33	21.75488G	-48.00	1

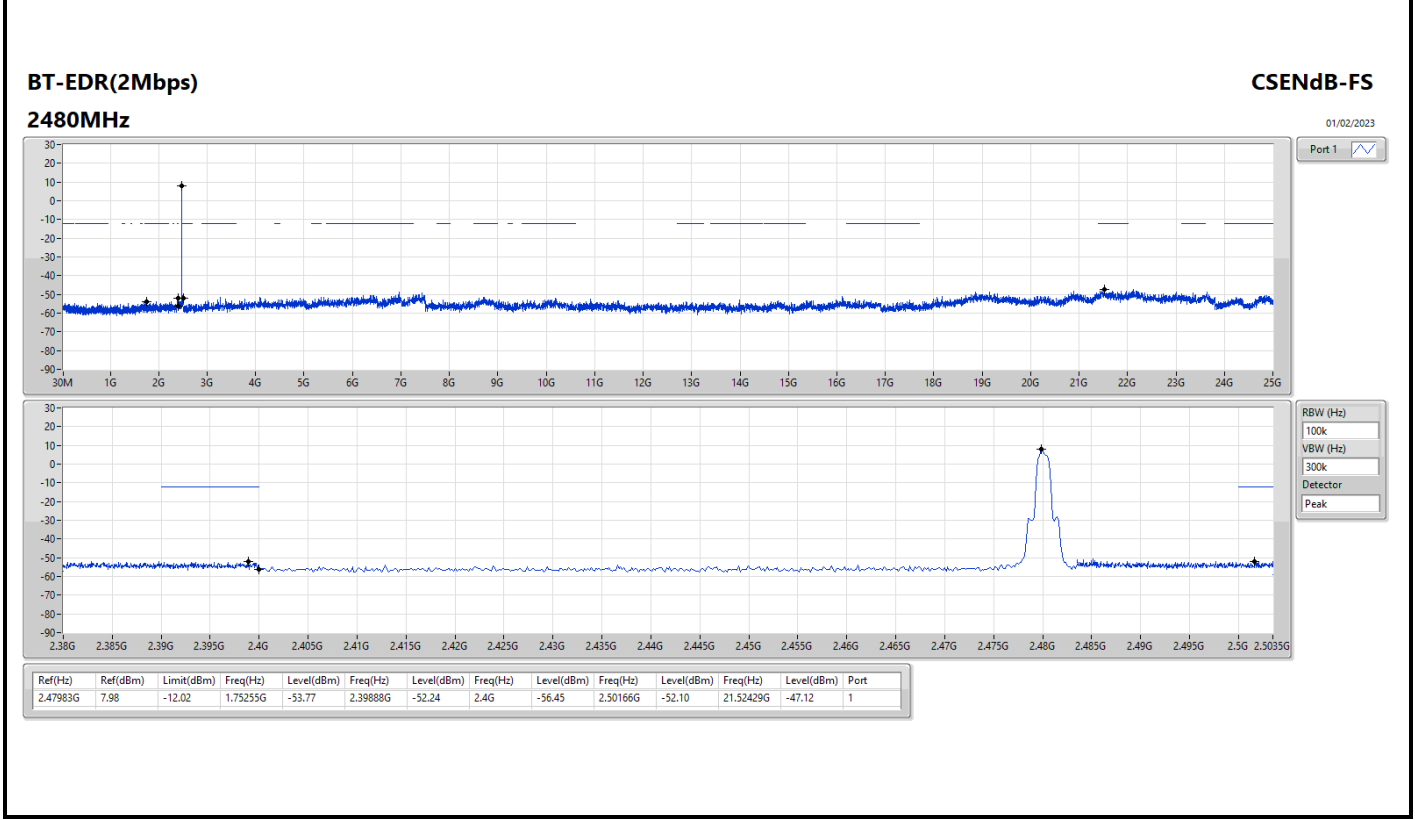
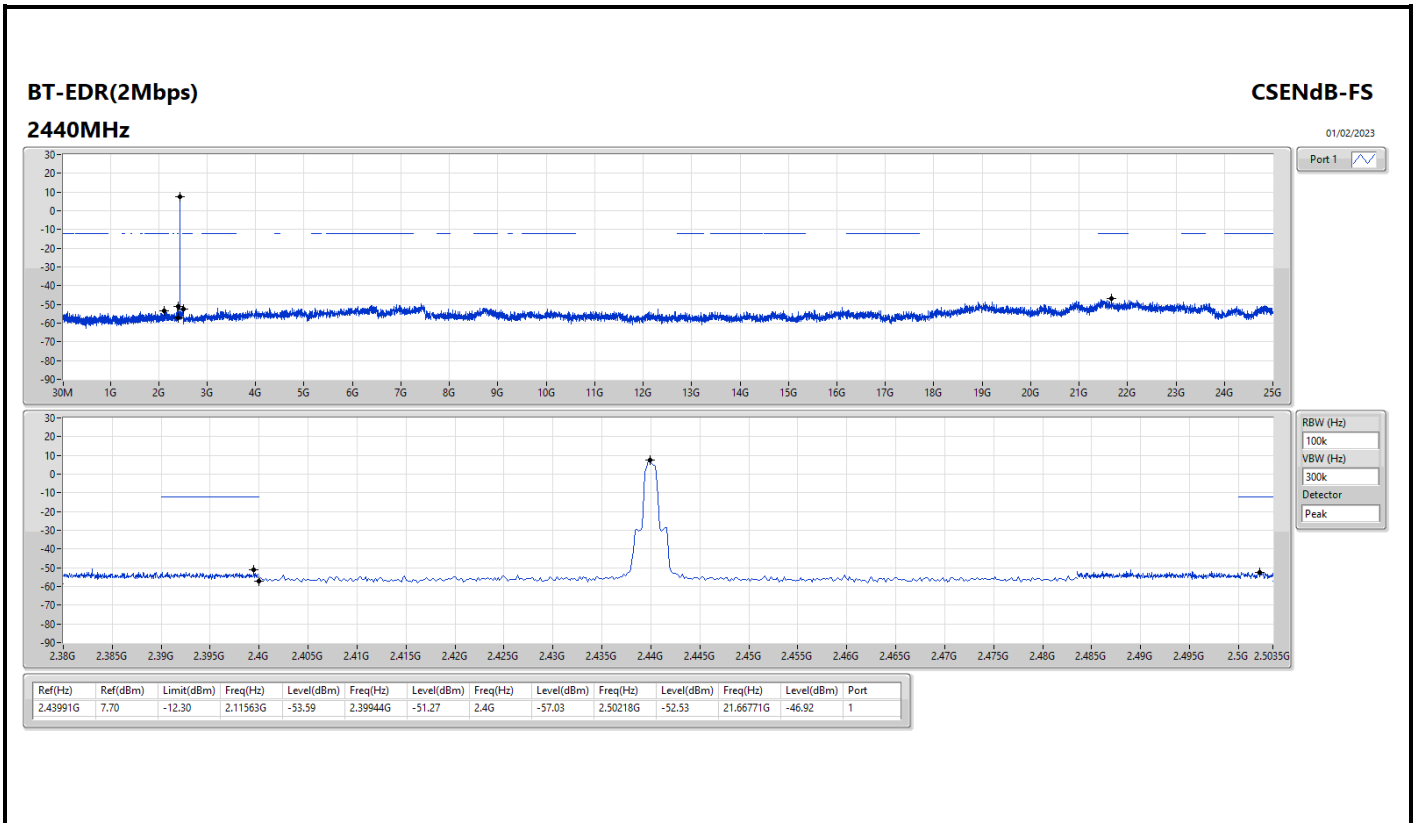


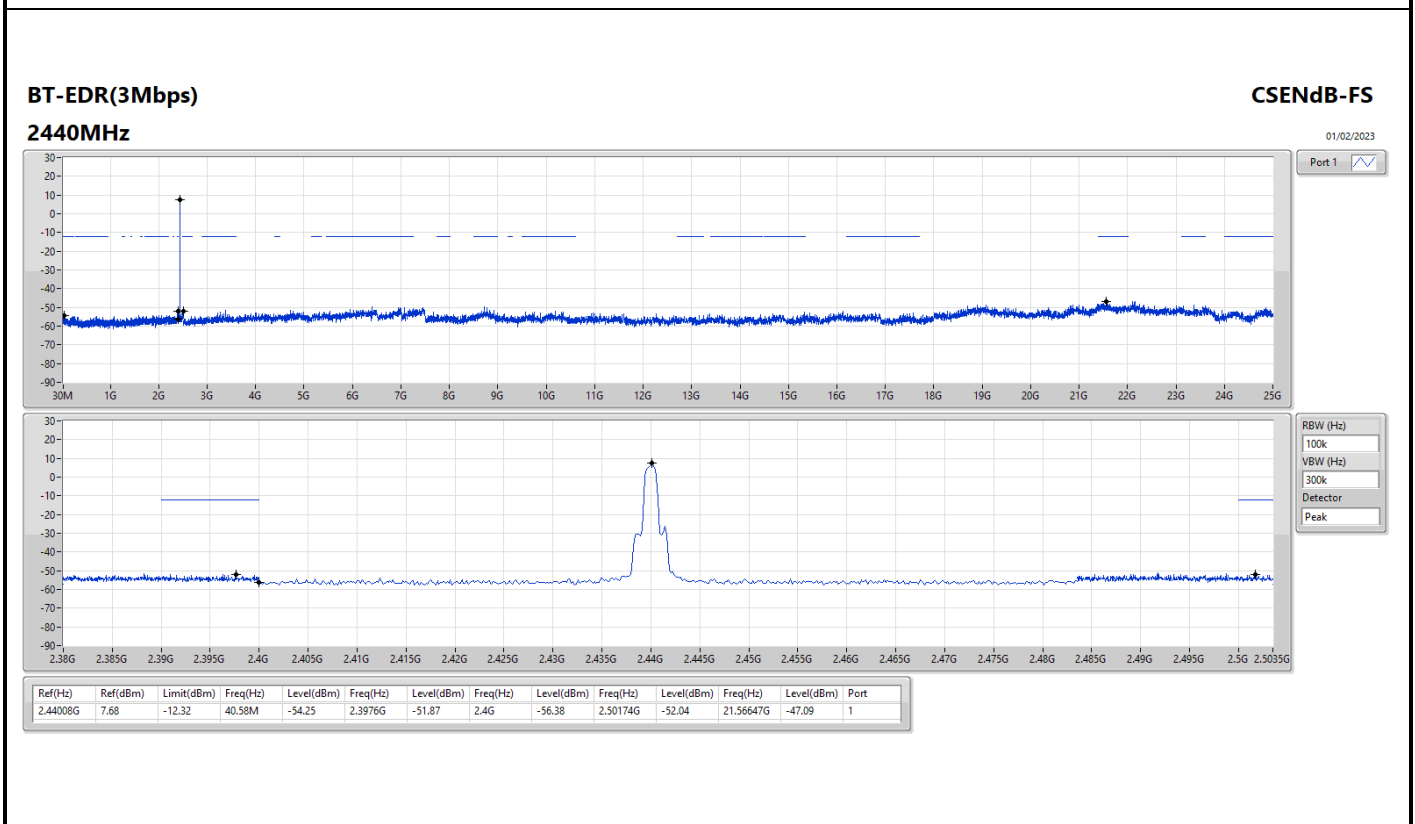
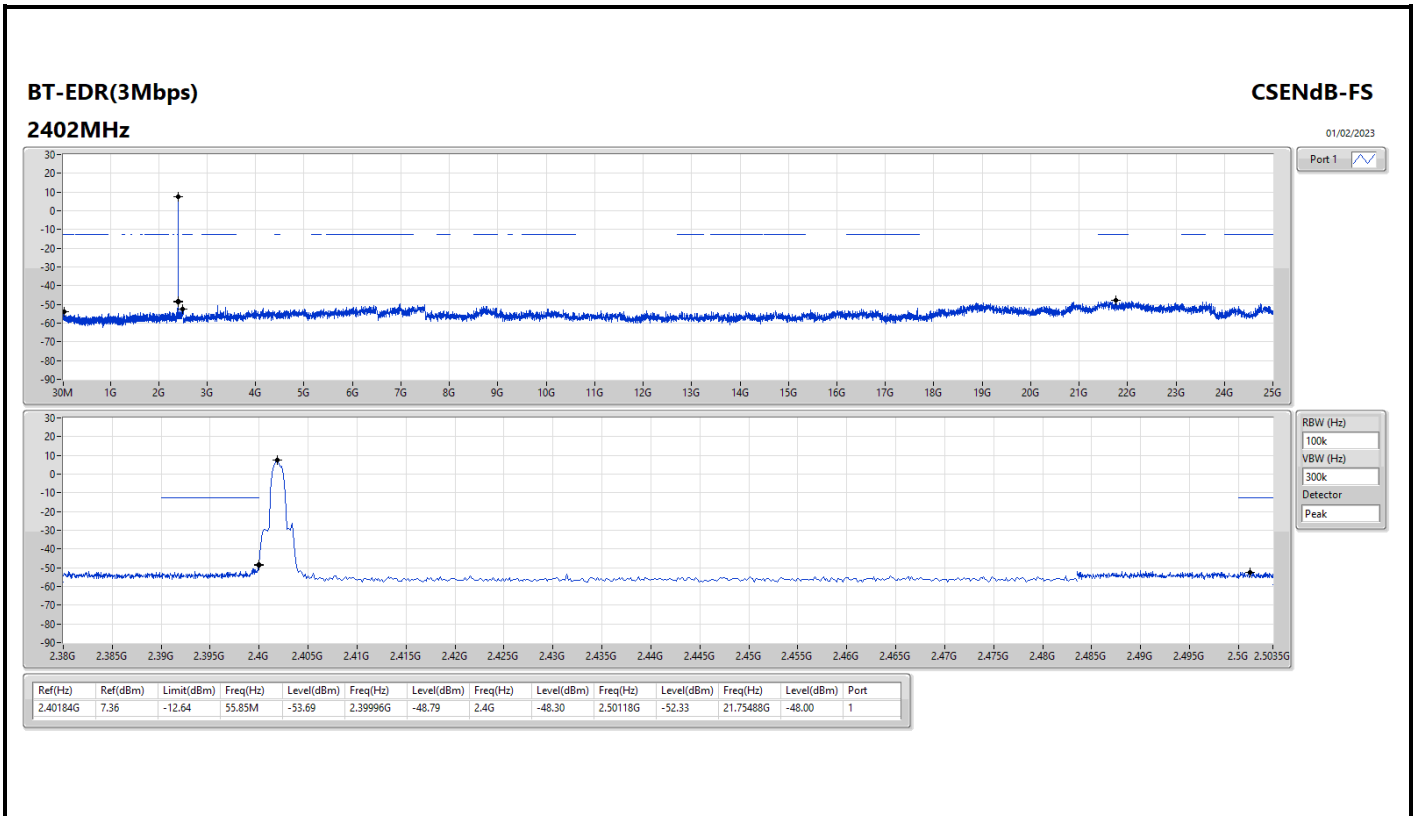
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	5.69	-14.31	2.14618G	-52.23	2.39988G	-50.14	2.4G	-52.59	2.5007G	-51.61	6.95048G	-49.77	1
2440MHz	Pass	2.44008G	5.92	-14.08	1.84303G	-54.58	2.39228G	-52.19	2.4G	-57.08	2.50314G	-52.11	21.61428G	-46.80	1
2480MHz	Pass	2.48016G	5.61	-14.39	2.13208G	-54.13	2.39156G	-51.60	2.4G	-56.61	2.50238G	-51.67	21.48211G	-47.57	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	7.71	-12.29	1.65268G	-54.46	2.4G	-50.17	2.4G	-50.48	2.50246G	-51.62	21.61146G	-47.68	1
2440MHz	Pass	2.43991G	7.70	-12.30	2.11563G	-53.59	2.39944G	-51.27	2.4G	-57.03	2.50218G	-52.53	21.66771G	-46.92	1
2480MHz	Pass	2.47983G	7.98	-12.02	1.75255G	-53.77	2.39888G	-52.24	2.4G	-56.45	2.50166G	-52.10	21.52429G	-47.12	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	7.36	-12.64	55.85M	-53.69	2.39996G	-48.79	2.4G	-48.30	2.50118G	-52.33	21.75488G	-48.00	1
2440MHz	Pass	2.44008G	7.68	-12.32	40.58M	-54.25	2.3976G	-51.87	2.4G	-56.38	2.50174G	-52.04	21.56647G	-47.09	1
2480MHz	Pass	2.47999G	7.20	-12.80	2.1215G	-53.27	2.3912G	-51.45	2.4G	-56.58	2.50186G	-52.47	21.51867G	-46.88	1

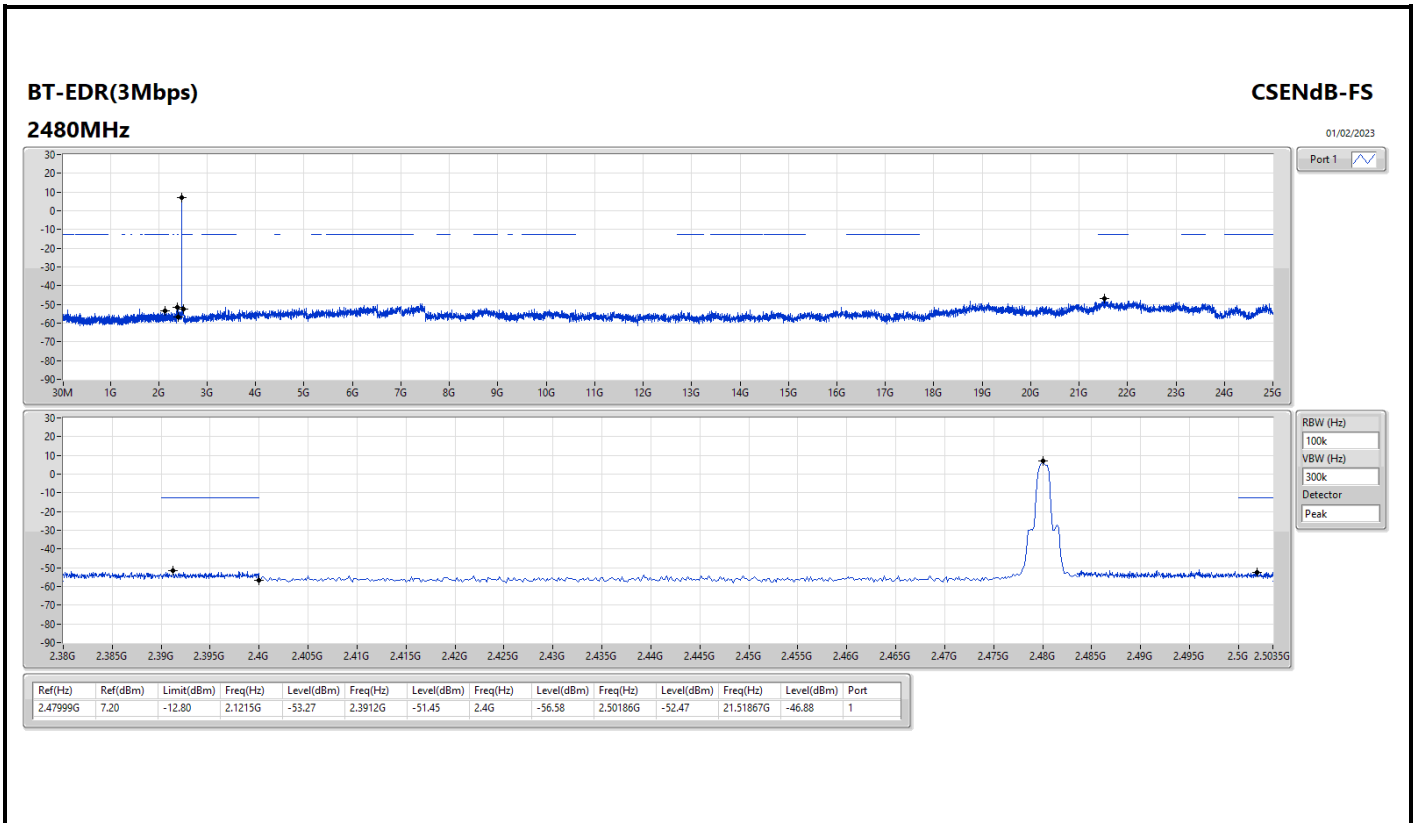








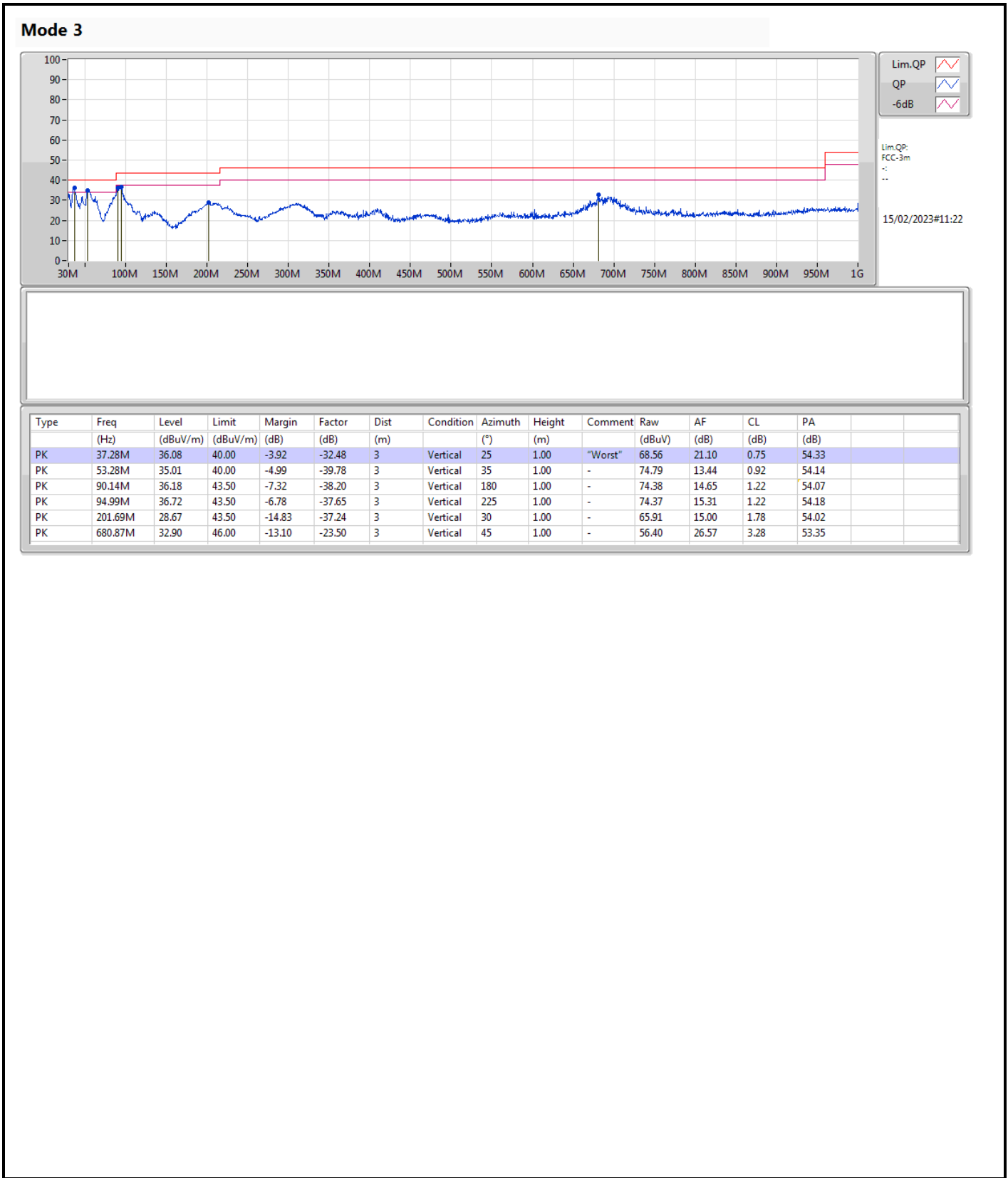


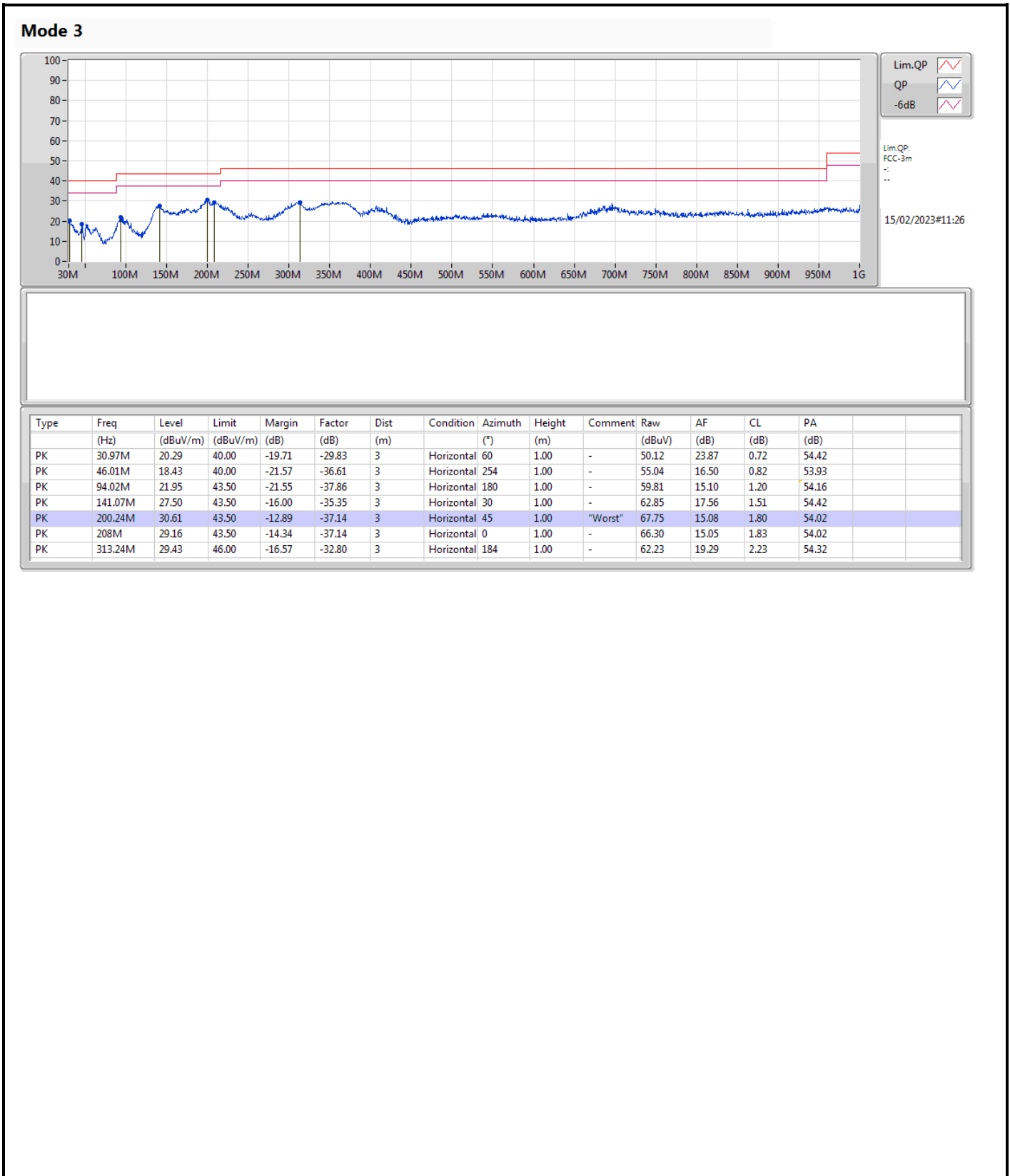




**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	PK	37.28M	36.08	40.00	-3.92	Vertical





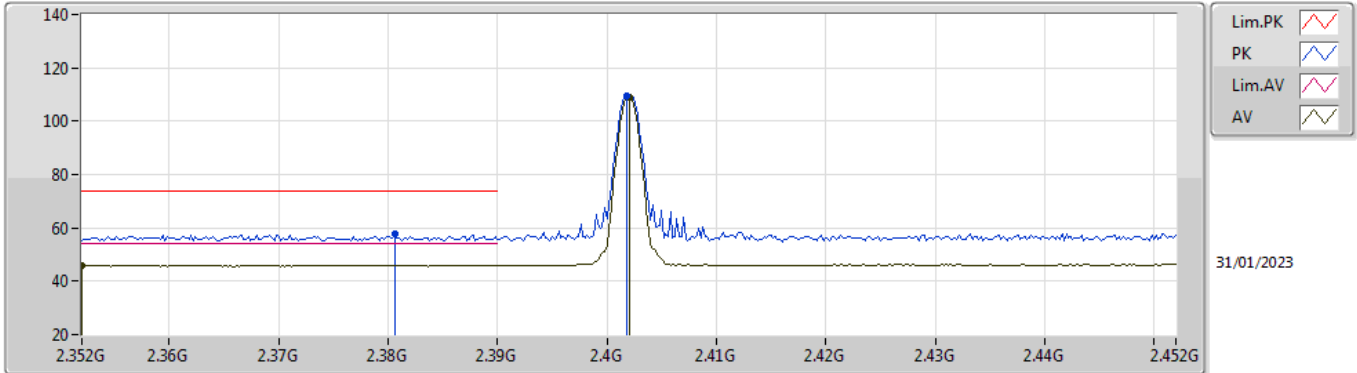


Summary

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-BR(1Mbps)	Pass	AV	4.80395G	49.35	54.00	-4.65	3	Vertical	51	1.80	-

**BT-BR(1Mbps)**

**2402MHz\_TX**

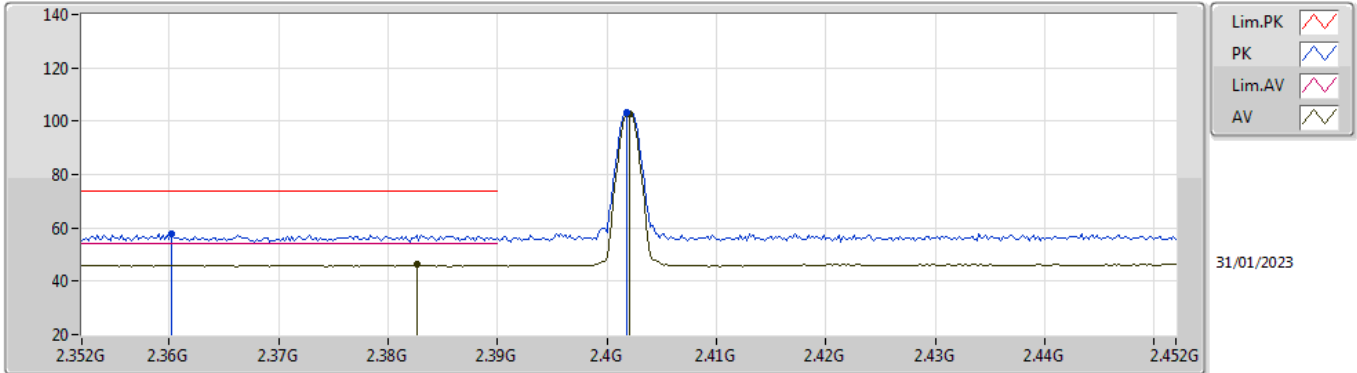


EUT\_Z\_1TX  
Setting 9  
02-H-W-4

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	2.3806G	57.58	74.00	-16.42	26.03	3	Vertical	358	2.49	-	28.36	3.19	-
AV	2.352G	46.04	54.00	-7.96	14.56	3	Vertical	358	2.49	-	28.30	3.18	-
PK	2.4018G	109.40	Inf	-Inf	77.80	3	Vertical	358	2.49	-	28.40	3.20	-
AV	2.402G	108.99	Inf	-Inf	77.39	3	Vertical	358	2.49	-	28.40	3.20	-

**BT-BR(1Mbps)**

**2402MHz\_TX**

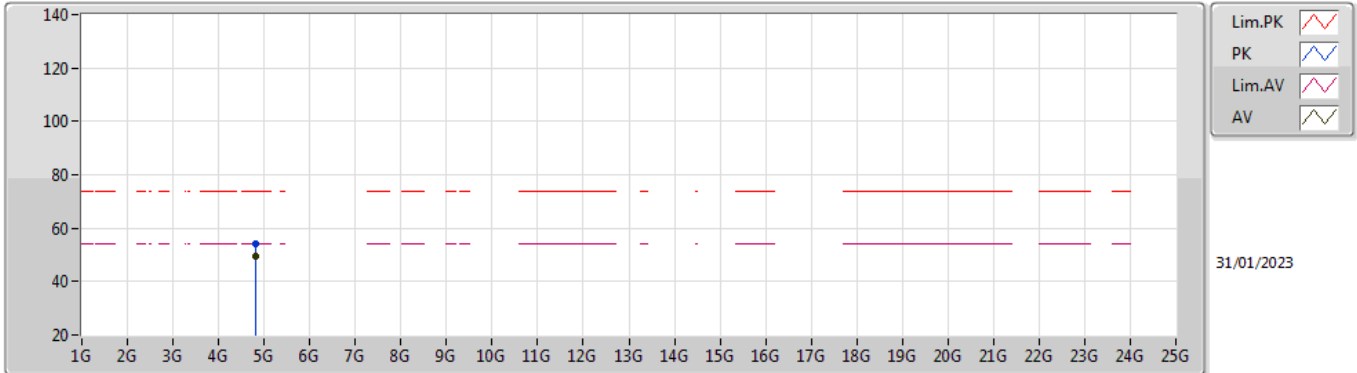


EUT\_Z\_1TX  
Setting 9  
02-H-W-4

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	2.3602G	57.70	74.00	-16.30	26.20	3	Horizontal	225	2.05	-	28.32	3.18	-
AV	2.3826G	46.22	54.00	-7.78	14.66	3	Horizontal	225	2.05	-	28.37	3.19	-
PK	2.4018G	103.34	Inf	-Inf	71.74	3	Horizontal	225	2.05	-	28.40	3.20	-
AV	2.402G	102.93	Inf	-Inf	71.33	3	Horizontal	225	2.05	-	28.40	3.20	-

**BT-BR(1Mbps)**

**2402MHz\_TX**



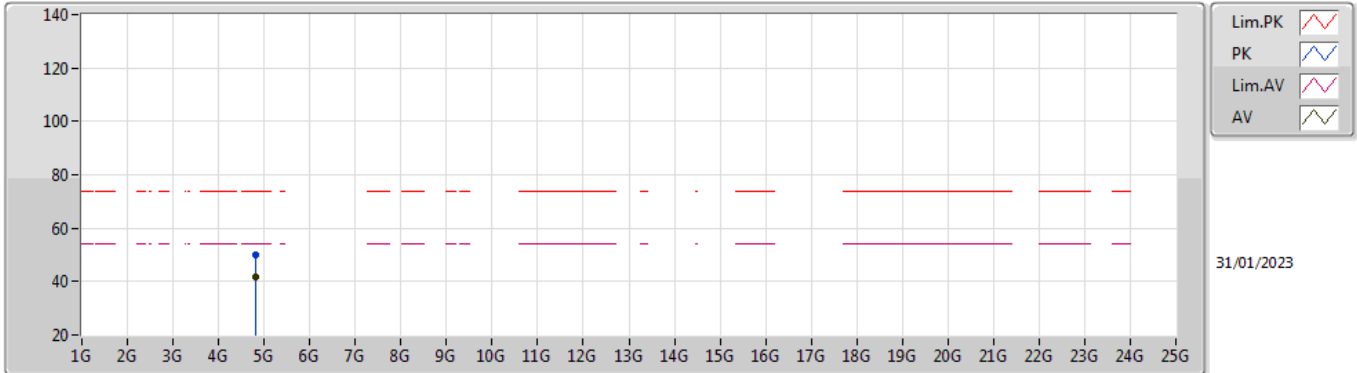
EUT\_Z\_1TX  
Setting 8  
02-H-W-4

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	4.80387G	54.12	74.00	-19.88	46.51	3	Vertical	51	1.80	-	32.82	5.60	30.81
AV	4.80395G	49.35	54.00	-4.65	41.74	3	Vertical	51	1.80	-	32.82	5.60	30.81



### BT-BR(1Mbps)

### 2402MHz\_TX

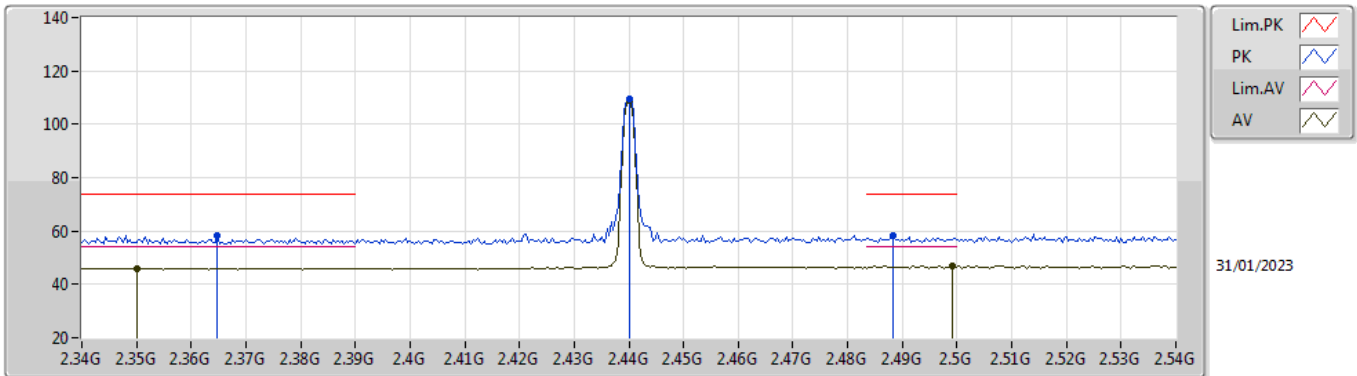


EUT\_Z\_1TX  
Setting 8  
02-H-W-4

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	4.80426G	49.80	74.00	-24.20	42.18	3	Horizontal	21	1.63	-	32.83	5.60	30.81
AV	4.80394G	41.72	54.00	-12.28	34.11	3	Horizontal	21	1.63	-	32.82	5.60	30.81

**BT-BR(1Mbps)**

**2440MHz\_TX**

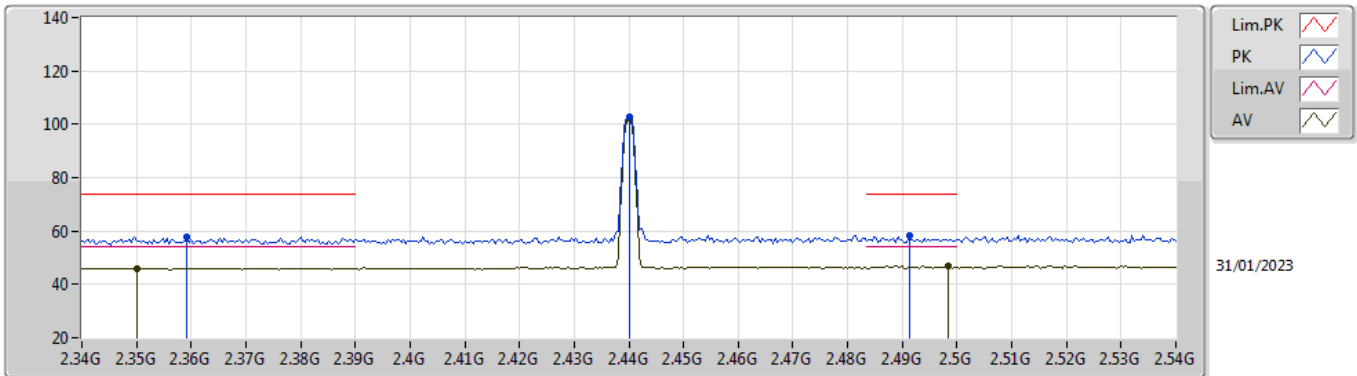


EUT\_Z\_1TX  
Setting 9  
02-H-W-4

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	2.3648G	58.14	74.00	-15.86	26.63	3	Vertical	150	2.08	-	28.33	3.18	-
AV	2.35G	46.05	54.00	-7.95	14.57	3	Vertical	150	2.08	-	28.30	3.18	-
PK	2.44G	109.38	Inf	-Inf	77.76	3	Vertical	150	2.08	-	28.40	3.22	-
AV	2.44G	108.95	Inf	-Inf	77.33	3	Vertical	150	2.08	-	28.40	3.22	-
PK	2.4884G	58.11	74.00	-15.89	26.32	3	Vertical	150	2.08	-	28.55	3.24	-
AV	2.4992G	46.65	54.00	-7.35	14.80	3	Vertical	150	2.08	-	28.60	3.25	-

**BT-BR(1Mbps)**

**2440MHz\_TX**

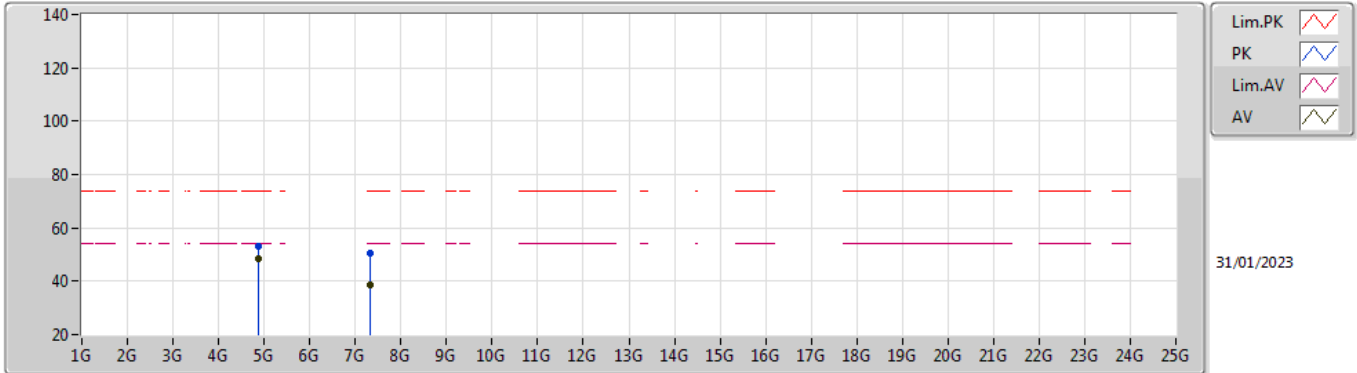


EUT\_Z\_1TX  
Setting 9  
02-H-W-4

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	2.3592G	57.90	74.00	-16.10	26.40	3	Horizontal	227	1.84	-	28.32	3.18	-
AV	2.35G	46.05	54.00	-7.95	14.57	3	Horizontal	227	1.84	-	28.30	3.18	-
PK	2.44G	102.90	Inf	-Inf	71.28	3	Horizontal	227	1.84	-	28.40	3.22	-
AV	2.44G	102.49	Inf	-Inf	70.87	3	Horizontal	227	1.84	-	28.40	3.22	-
PK	2.4912G	58.45	74.00	-15.55	26.64	3	Horizontal	227	1.84	-	28.56	3.25	-
AV	2.4984G	46.89	54.00	-7.11	15.05	3	Horizontal	227	1.84	-	28.59	3.25	-

**BT-BR(1Mbps)**

**2440MHz\_TX**

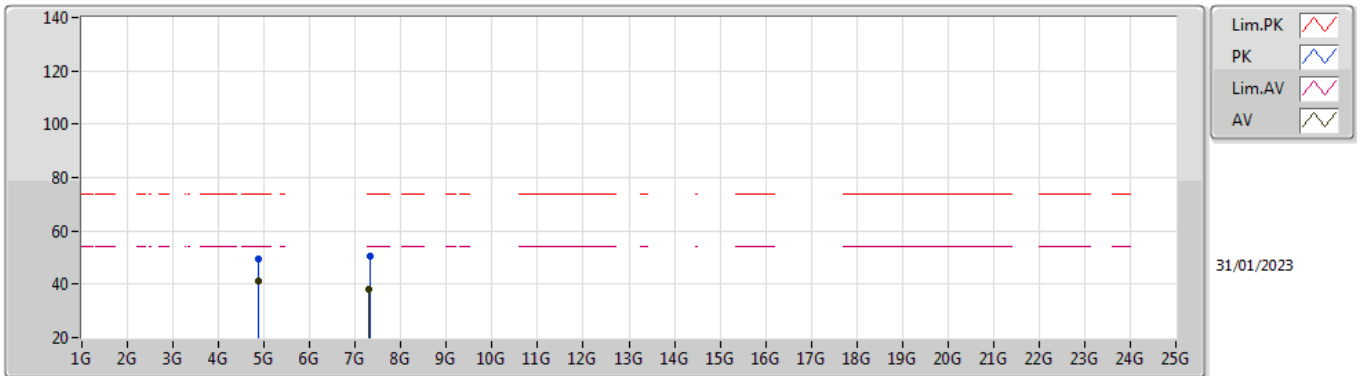


EUT\_Z\_1TX  
Setting 8  
02-H-W-4

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	4.88015G	53.26	74.00	-20.74	45.24	3	Vertical	53	1.86	-	33.16	5.64	30.78
AV	4.88005G	48.27	54.00	-5.73	40.25	3	Vertical	53	1.86	-	33.16	5.64	30.78
PK	7.31432G	50.33	74.00	-23.67	38.98	3	Vertical	20	1.80	-	36.43	6.84	31.92
AV	7.32352G	38.45	54.00	-15.55	27.09	3	Vertical	20	1.80	-	36.45	6.84	31.93

### BT-BR(1Mbps)

### 2440MHz\_TX

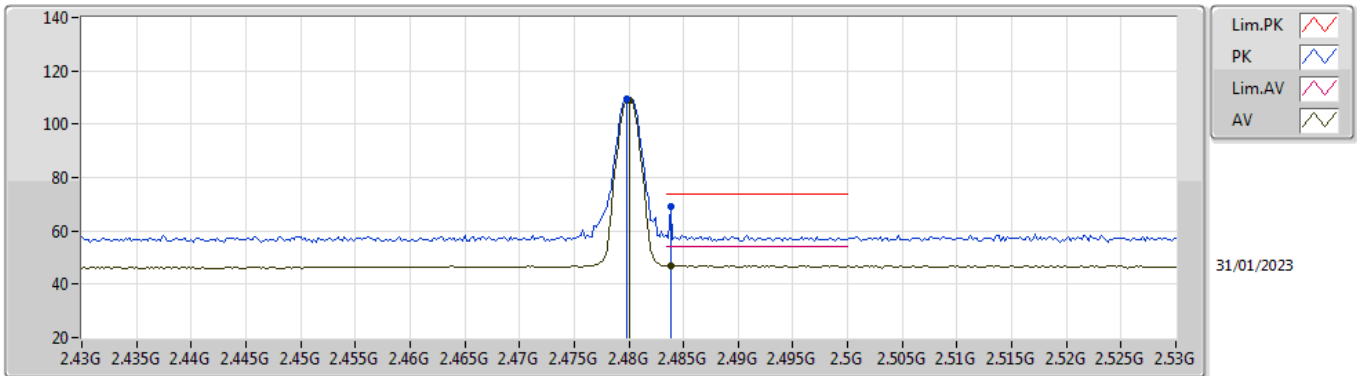


EUT\_Z\_1TX  
Setting 8  
02-H-W-4

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	4.87976G	49.69	74.00	-24.31	41.67	3	Horizontal	296	2.64	-	33.16	5.64	30.78
AV	4.87995G	41.42	54.00	-12.58	33.40	3	Horizontal	296	2.64	-	33.16	5.64	30.78
PK	7.32176G	50.67	74.00	-23.33	39.32	3	Horizontal	140	2.29	-	36.44	6.84	31.93
AV	7.31004G	38.28	54.00	-15.72	26.94	3	Horizontal	140	2.29	-	36.42	6.84	31.92

### BT-BR(1Mbps)

### 2480MHz\_TX

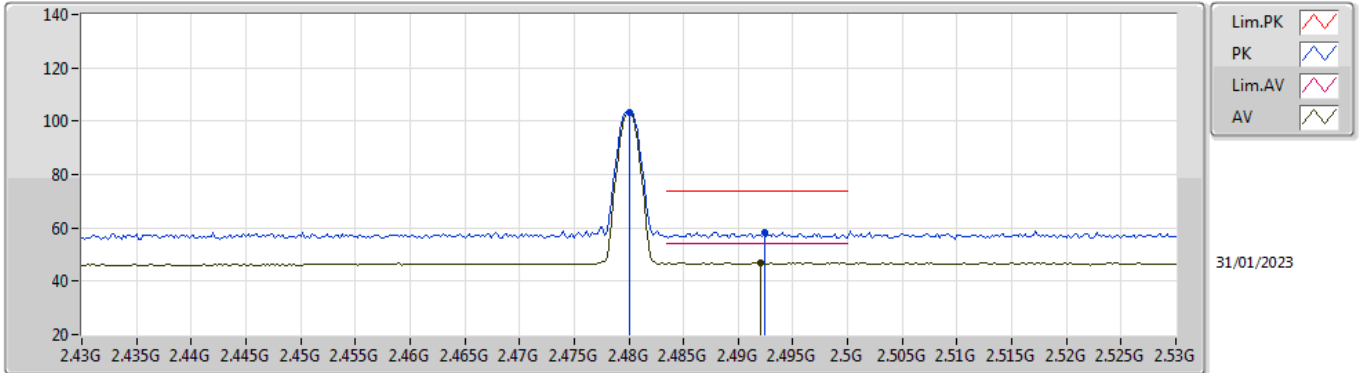


EUT\_Z\_1TX  
Setting 9  
02-H-W-4

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	2.4798G	109.56	Inf	-Inf	77.80	3	Vertical	158	1.91	-	28.52	3.24	-
AV	2.48G	109.17	Inf	-Inf	77.41	3	Vertical	158	1.91	-	28.52	3.24	-
PK	2.4838G	69.32	74.00	-4.68	37.54	3	Vertical	158	1.91	-	28.54	3.24	-
AV	2.4838G	47.13	54.00	-6.87	15.35	3	Vertical	158	1.91	-	28.54	3.24	-

**BT-BR(1Mbps)**

**2480MHz\_TX**

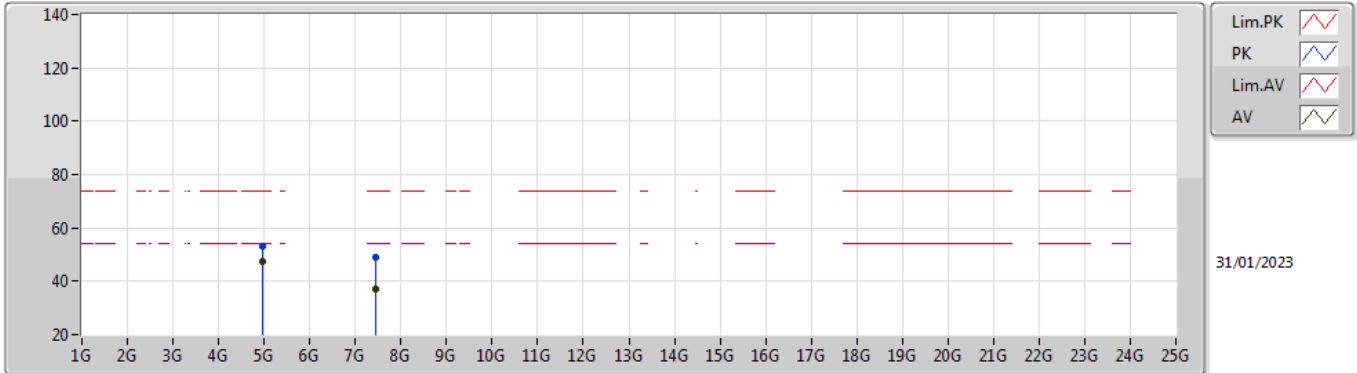


EUT\_Z\_1TX  
Setting 9  
02-H-W-4

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	103.43	Inf	-Inf	71.67	3	Horizontal	222	1.94	-	28.52	3.24	-
AV	2.48G	103.03	Inf	-Inf	71.27	3	Horizontal	222	1.94	-	28.52	3.24	-
PK	2.4924G	58.32	74.00	-15.68	26.50	3	Horizontal	222	1.94	-	28.57	3.25	-
AV	2.492G	46.90	54.00	-7.10	15.08	3	Horizontal	222	1.94	-	28.57	3.25	-

**BT-BR(1Mbps)**

**2480MHz\_TX**



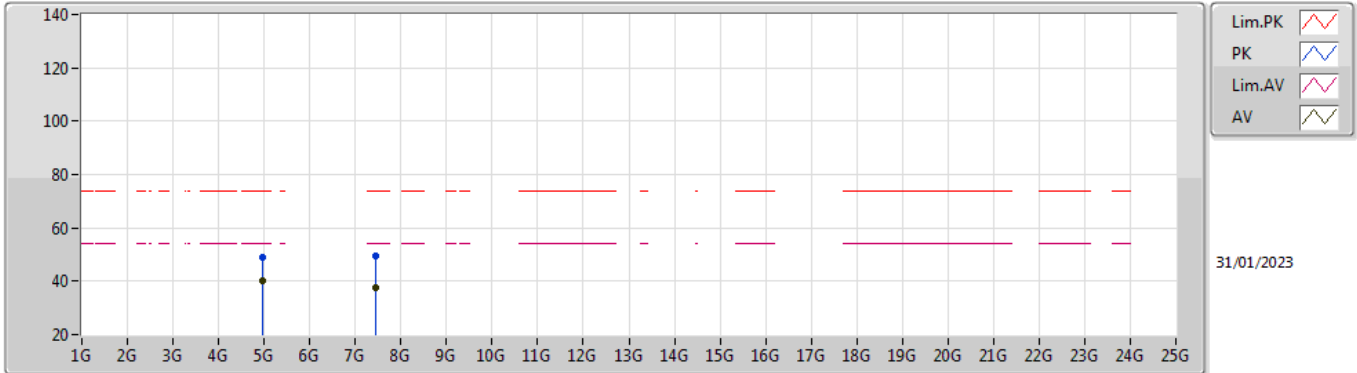
EUT\_Z\_1TX  
Setting 8  
02-H-W-4

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	4.96026G	52.92	74.00	-21.08	44.67	3	Vertical	52	1.71	-	33.32	5.68	30.75
AV	4.96001G	47.21	54.00	-6.79	38.96	3	Vertical	52	1.71	-	33.32	5.68	30.75
PK	7.44168G	49.17	74.00	-24.83	37.83	3	Vertical	174	1.14	-	36.50	6.84	32.00
AV	7.43885G	37.29	54.00	-16.71	25.94	3	Vertical	174	1.14	-	36.50	6.84	31.99



**BT-BR(1Mbps)**

**2480MHz\_TX**

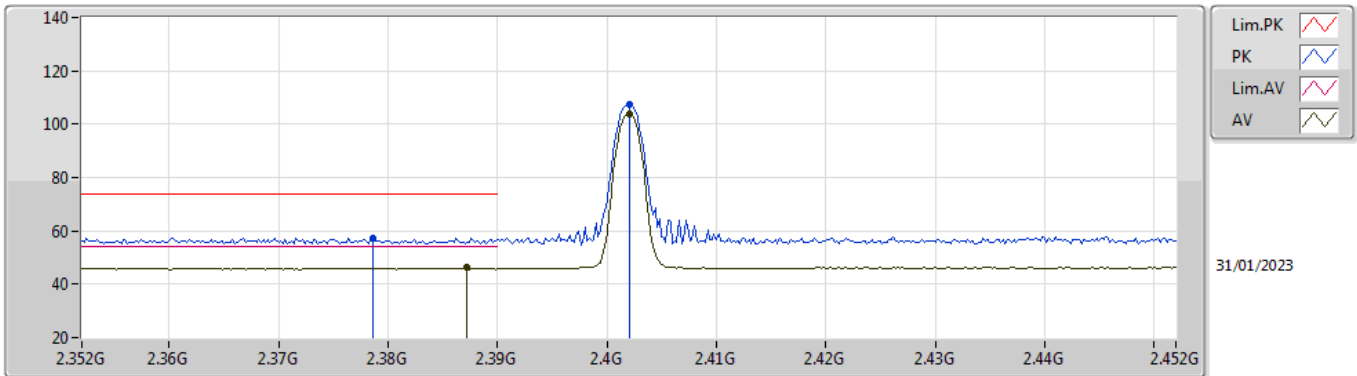


EUT\_Z\_1TX  
Setting 8  
02-H-W-4

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	4.96029G	48.94	74.00	-25.06	40.69	3	Horizontal	28	1.76	-	33.32	5.68	30.75
AV	4.95993G	39.96	54.00	-14.04	31.71	3	Horizontal	28	1.76	-	33.32	5.68	30.75
PK	7.44206G	49.61	74.00	-24.39	38.27	3	Horizontal	235	1.51	-	36.50	6.84	32.00
AV	7.442G	37.34	54.00	-16.66	26.00	3	Horizontal	235	1.51	-	36.50	6.84	32.00

### BT-EDR(3Mbps)

### 2402MHz\_TX

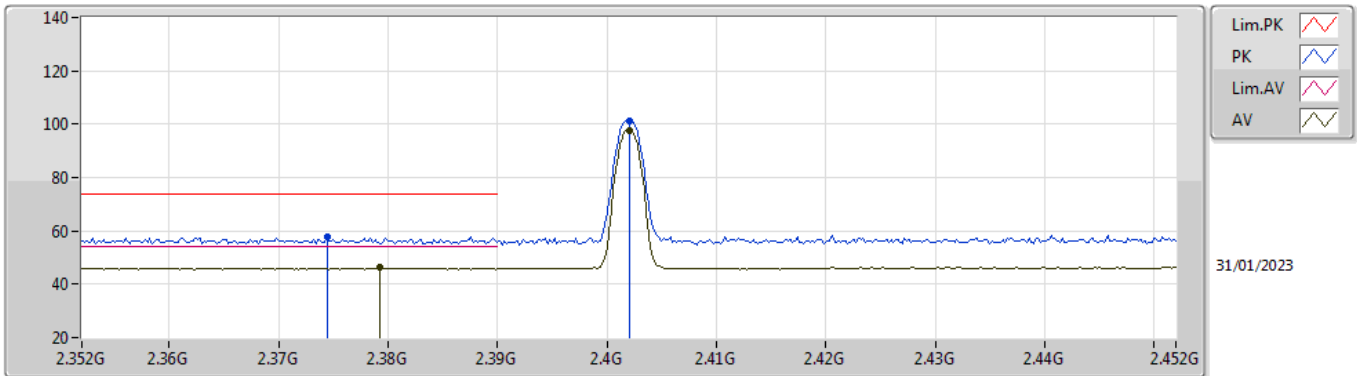


EUT\_Z\_1TX  
Setting 9  
02-H-W-4

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	2.3786G	57.46	74.00	-16.54	25.91	3	Vertical	360	2.49	-	28.36	3.19	-
AV	2.3872G	46.21	54.00	-7.79	14.65	3	Vertical	360	2.49	-	28.37	3.19	-
PK	2.402G	107.19	Inf	-Inf	75.59	3	Vertical	360	2.49	-	28.40	3.20	-
AV	2.402G	103.78	Inf	-Inf	72.18	3	Vertical	360	2.49	-	28.40	3.20	-

**BT-EDR(3Mbps)**

**2402MHz\_TX**

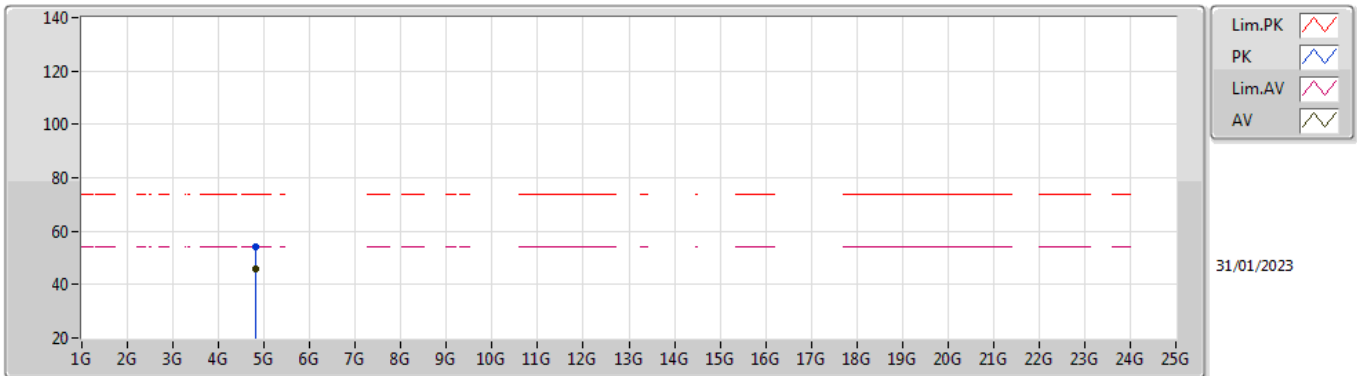


EUT\_Z\_1TX  
Setting 9  
02-H-W-4

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	2.3744G	57.80	74.00	-16.20	26.26	3	Horizontal	225	2.04	-	28.35	3.19	-
AV	2.3792G	46.23	54.00	-7.77	14.68	3	Horizontal	225	2.04	-	28.36	3.19	-
PK	2.402G	101.14	Inf	-Inf	69.54	3	Horizontal	225	2.04	-	28.40	3.20	-
AV	2.402G	97.75	Inf	-Inf	66.15	3	Horizontal	225	2.04	-	28.40	3.20	-

### BT-EDR(3Mbps)

### 2402MHz\_TX

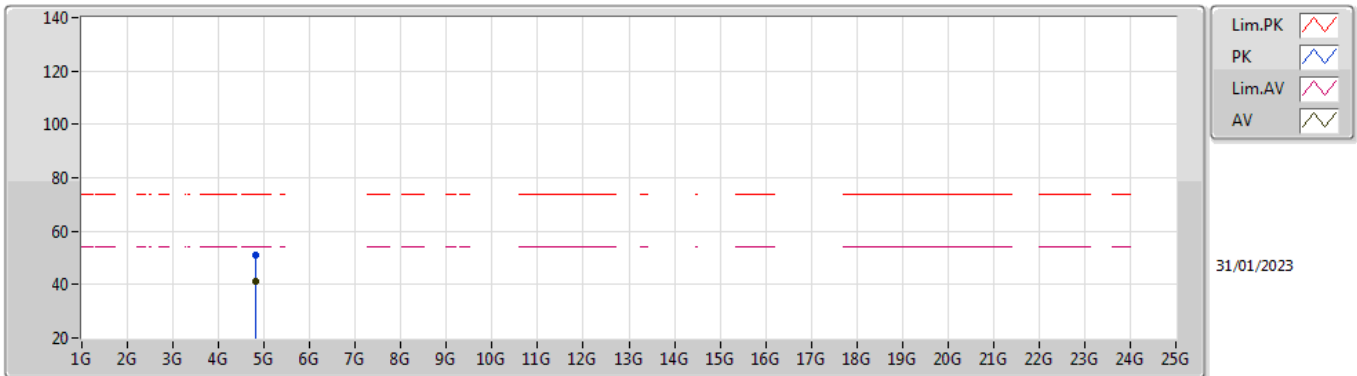


EUT\_Z\_1TX  
Setting 9  
02-H-K-5

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	4.80408G	54.20	74.00	-19.80	46.59	3	Vertical	52	1.80	-	32.82	5.60	30.81
AV	4.80396G	46.06	54.00	-7.94	38.45	3	Vertical	52	1.80	-	32.82	5.60	30.81

### BT-EDR(3Mbps)

### 2402MHz\_TX

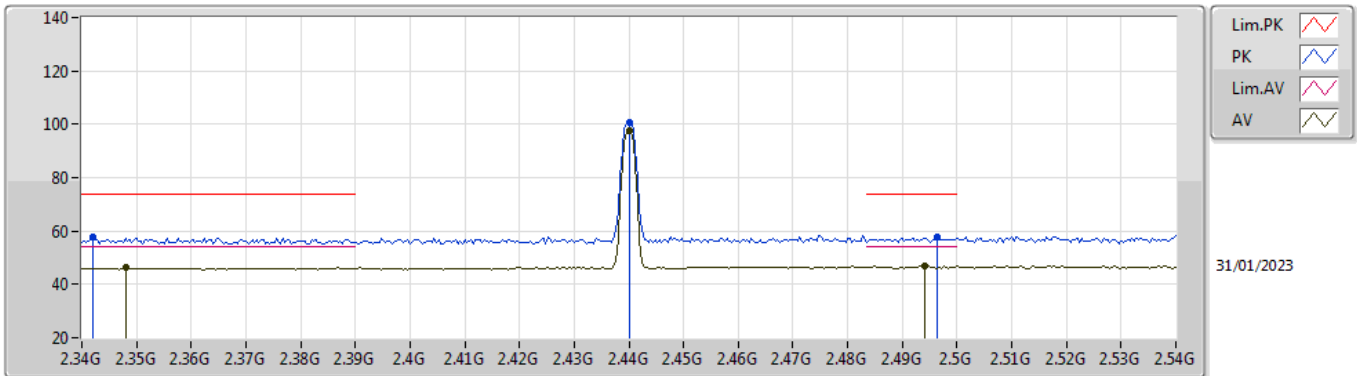


EUT\_Z\_1TX  
Setting 9  
02-H-K-5

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	4.80345G	51.21	74.00	-22.79	43.60	3	Horizontal	21	1.52	-	32.82	5.60	30.81
AV	4.80397G	40.99	54.00	-13.01	33.38	3	Horizontal	21	1.52	-	32.82	5.60	30.81

### BT-EDR(3Mbps)

### 2440MHz\_TX

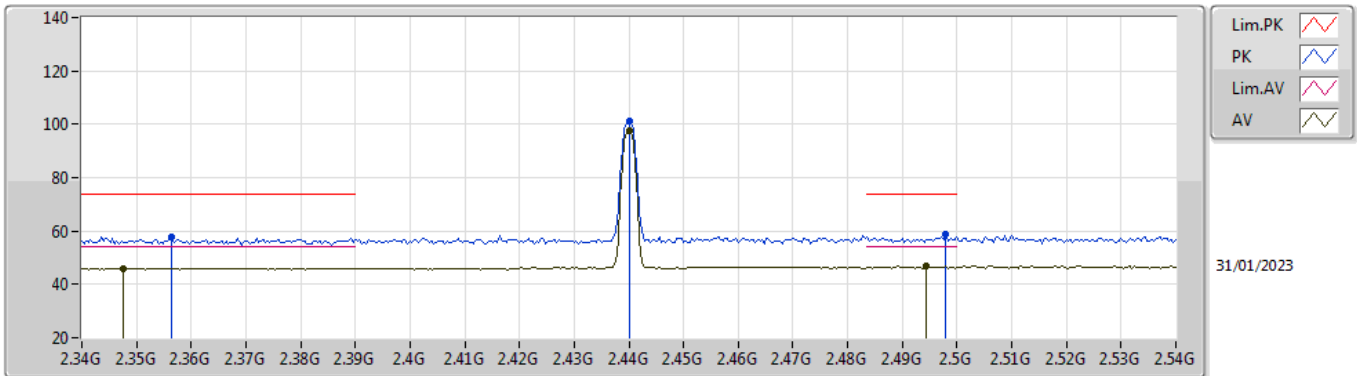


EUT\_Z\_1TX  
Setting 9  
02-H-W-4

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	2.342G	57.98	74.00	-16.02	26.54	3	Vertical	226	1.84	-	28.27	3.17	-
AV	2.348G	46.29	54.00	-7.71	14.83	3	Vertical	226	1.84	-	28.29	3.17	-
PK	2.44G	100.93	Inf	-Inf	69.31	3	Vertical	226	1.84	-	28.40	3.22	-
AV	2.44G	97.56	Inf	-Inf	65.94	3	Vertical	226	1.84	-	28.40	3.22	-
PK	2.4964G	57.57	74.00	-16.43	25.73	3	Vertical	226	1.84	-	28.59	3.25	-
AV	2.494G	46.65	54.00	-7.35	14.82	3	Vertical	226	1.84	-	28.58	3.25	-

### BT-EDR(3Mbps)

### 2440MHz\_TX

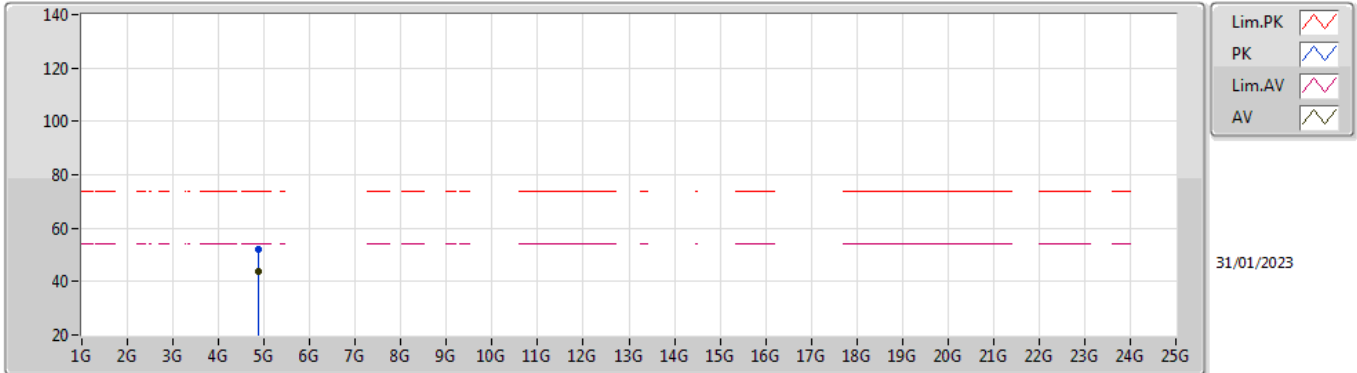


EUT\_Z\_1TX  
Setting 9  
02-H-W-4

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	2.3564G	57.64	74.00	-16.36	26.15	3	Horizontal	226	1.84	-	28.31	3.18	-
AV	2.3476G	46.04	54.00	-7.96	14.58	3	Horizontal	226	1.84	-	28.29	3.17	-
PK	2.44G	100.96	Inf	-Inf	69.34	3	Horizontal	226	1.84	-	28.40	3.22	-
AV	2.44G	97.56	Inf	-Inf	65.94	3	Horizontal	226	1.84	-	28.40	3.22	-
PK	2.498G	58.77	74.00	-15.23	26.93	3	Horizontal	226	1.84	-	28.59	3.25	-
AV	2.4944G	46.65	54.00	-7.35	14.82	3	Horizontal	226	1.84	-	28.58	3.25	-

### BT-EDR(3Mbps)

### 2440MHz\_TX



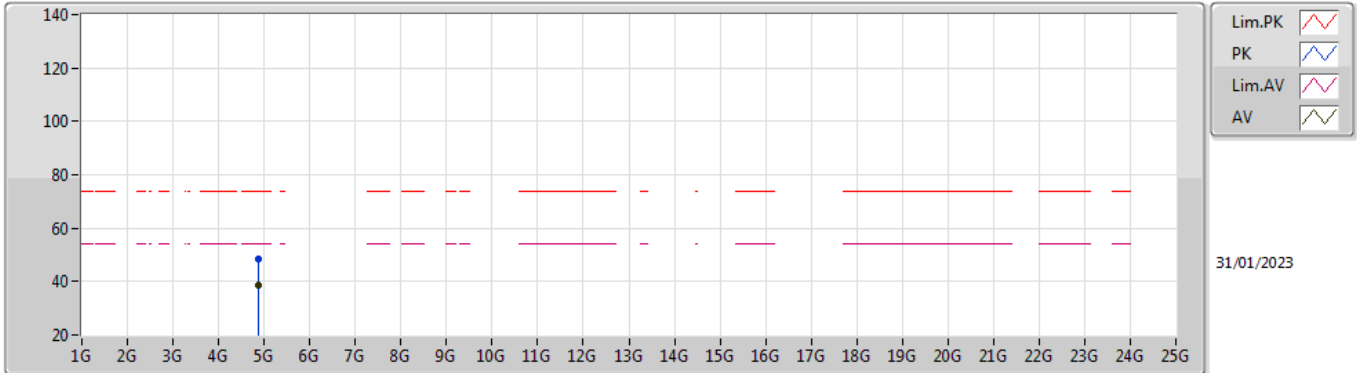
EUT\_Z\_1TX  
Setting 9  
02-H-K-5

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	4.87995G	52.29	74.00	-21.71	44.27	3	Vertical	54	1.88	-	33.16	5.64	30.78
AV	4.88G	43.76	54.00	-10.24	35.74	3	Vertical	54	1.88	-	33.16	5.64	30.78



### BT-EDR(3Mbps)

### 2440MHz\_TX

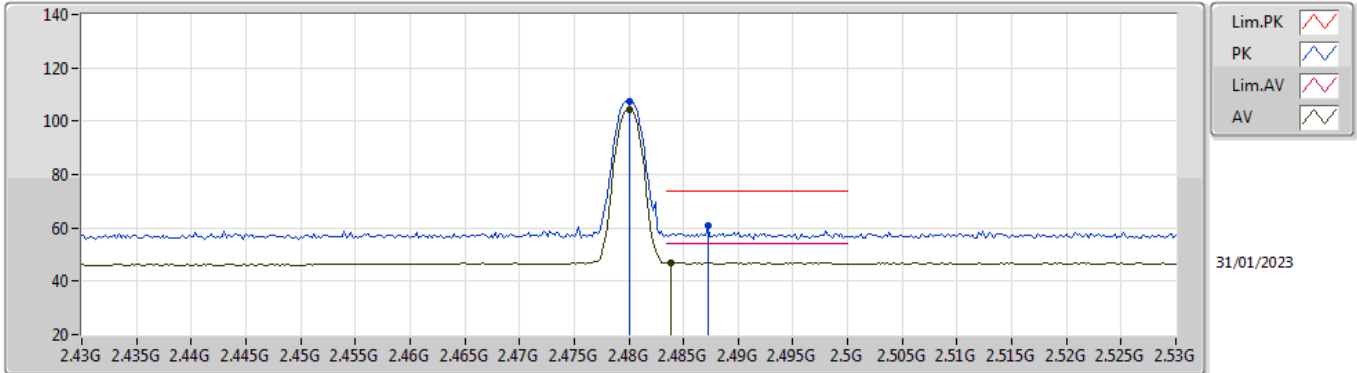


EUT\_Z\_1TX  
Setting 9  
02-H-K-5

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	4.88002G	48.69	74.00	-25.31	40.67	3	Horizontal	298	2.55	-	33.16	5.64	30.78
AV	4.87979G	38.50	54.00	-15.50	30.48	3	Horizontal	298	2.55	-	33.16	5.64	30.78

**BT-EDR(3Mbps)**

**2480MHz\_TX**

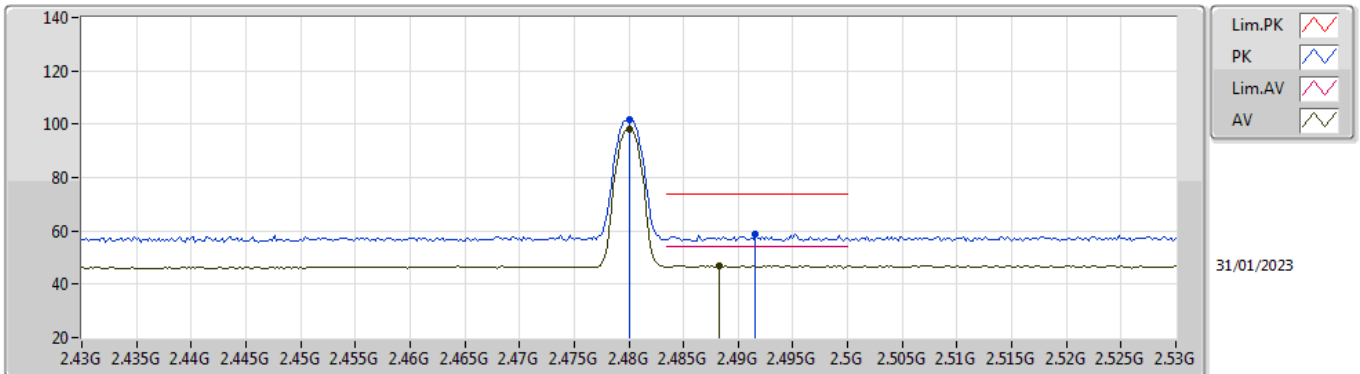


EUT\_Z\_1TX  
Setting 9  
02-H-W-4

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	107.64	Inf	-Inf	75.88	3	Vertical	157	1.91	-	28.52	3.24	-
AV	2.48G	104.23	Inf	-Inf	72.47	3	Vertical	157	1.91	-	28.52	3.24	-
PK	2.4872G	60.88	74.00	-13.12	29.09	3	Vertical	157	1.91	-	28.55	3.24	-
AV	2.4838G	47.13	54.00	-6.87	15.35	3	Vertical	157	1.91	-	28.54	3.24	-

### BT-EDR(3Mbps)

### 2480MHz\_TX

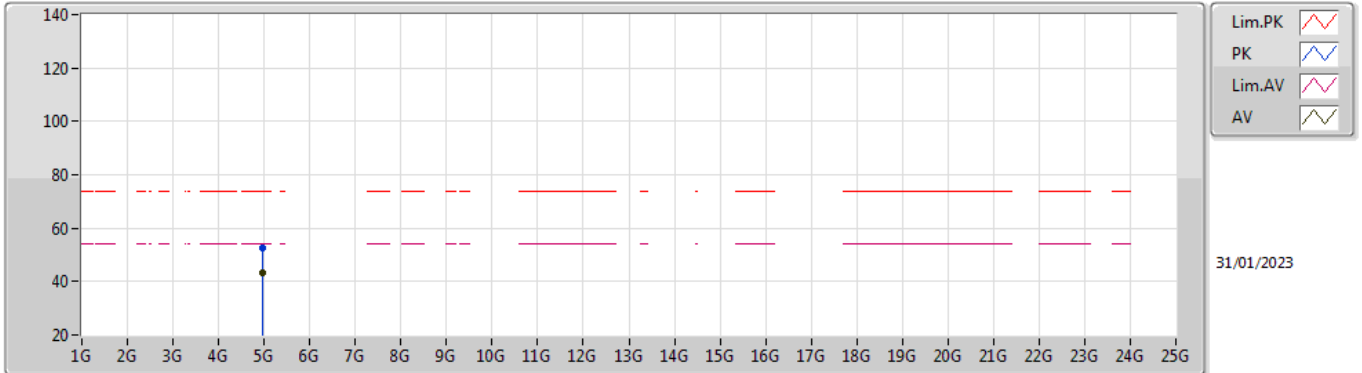


EUT\_Z\_1TX  
Setting 9  
02-H-W-4

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	101.50	Inf	-Inf	69.74	3	Horizontal	222	1.94	-	28.52	3.24	-
AV	2.48G	98.11	Inf	-Inf	66.35	3	Horizontal	222	1.94	-	28.52	3.24	-
PK	2.4916G	58.72	74.00	-15.28	26.90	3	Horizontal	222	1.94	-	28.57	3.25	-
AV	2.4882G	46.88	54.00	-7.12	15.09	3	Horizontal	222	1.94	-	28.55	3.24	-

### BT-EDR(3Mbps)

### 2480MHz\_TX

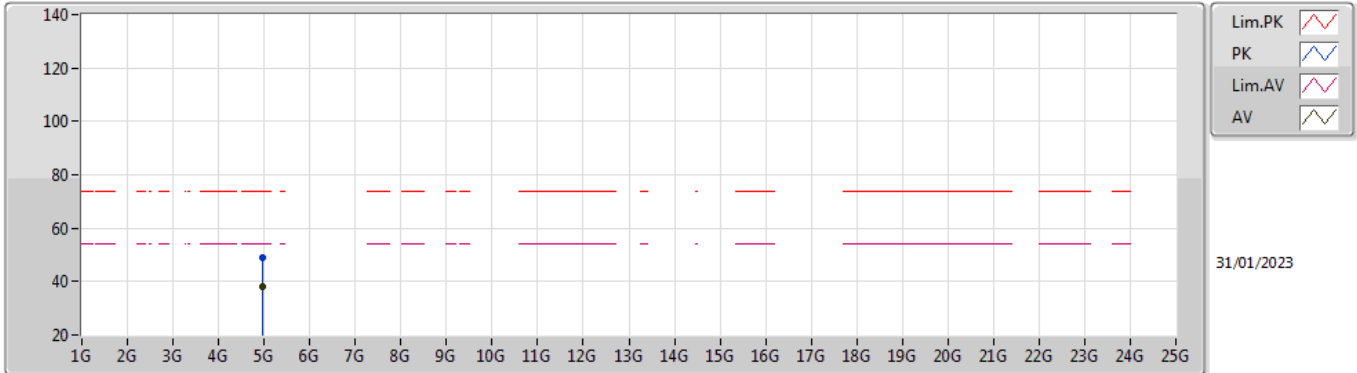


EUT\_Z\_1TX  
Setting 9  
02-H-K-5

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	4.96053G	52.40	74.00	-21.60	44.15	3	Vertical	51	1.72	-	33.32	5.68	30.75
AV	4.95992G	43.47	54.00	-10.53	35.22	3	Vertical	51	1.72	-	33.32	5.68	30.75

### BT-EDR(3Mbps)

### 2480MHz\_TX



EUT\_Z\_1TX  
Setting 9  
02-H-K-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	4.95965G	49.11	74.00	-24.89	40.86	3	Horizontal	23	1.77	-	33.32	5.68	30.75
AV	4.95974G	37.94	54.00	-16.06	29.69	3	Horizontal	23	1.77	-	33.32	5.68	30.75