

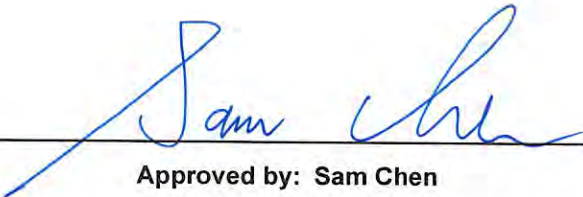


# RADIO TEST REPORT

FCC ID : 2AYRA-08449  
Equipment : Linksys Velop Micro-Mesh 6  
Brand Name : Linksys  
Model Name : LN1200 v2, LN1210 v2, LN1215 v2  
Applicant : Linksys USA, Inc.  
121 Theory, Irvine, CA. 92617, USA  
Standard : 47 CFR FCC Part 15.247

The product was received on Jan. 02, 2024, and testing was started from Jan. 02, 2024 and completed on Feb. 21, 2024. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Sam Chen

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



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**Photographs of EUT v01**





### 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	-

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Sam Chen**  
**Report Producer: 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	Bluetooth					
1	1	1	-	GALTRONICS	02102140-08042C	PCB Antenna	U.FL	Note1
2	2	-	-	GALTRONICS	02036073-07315	Embedded Antenna	N/A	
3	-	2	-	GALTRONICS	02102142-08042C	PCB Antenna	U.FL	
4	-	-	1	GALTRONICS	02036073-07315	Embedded Antenna	N/A	

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 5GHz UNII 4	Bluetooth
1	1.91	2.88	2.97	3.29	3.29	3.29	-
2	2.50	-	-	-	-	-	-
3	-	3.63	3.63	3.12	3.44	3.44	-
4	-	-	-	-	-	-	3.53

Note 2: The above information was declared by manufacturer.



Note 3: 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 ≤ 4	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left( \sum_{k=1}^{N_{ANT}} \xi_{j,k} \right)^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left( \sum_{k=1}^{N_{ANT}} \xi_{j,k} \right)^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left( \sum_{k=1}^{N_{ANT}} \xi_{j,k} \right)^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

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

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log \left[ \frac{(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2}{N_{ANT}} \right] \Rightarrow 10$$

$$\log \left[ \frac{(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2}{N_{ANT}} \right]$$

Where ;

$$2.4G \ G1 = 1.91 \text{ dBi} ; G2 = 2.50 \text{ dBi} ;$$

$$5G \ UNII-1 \ G1 = 2.88 \text{ dBi} ; G2 = 3.63 \text{ dBi} ;$$

$$5G \ UNII-2A \ G1 = 2.97 \text{ dBi} ; G2 = 3.63 \text{ dBi} ;$$

$$5G \ UNII-2C \ G1 = 3.29 \text{ dBi} ; G2 = 3.12 \text{ dBi} ;$$

$$5G \ UNII-3 \ G1 = 3.29 \text{ dBi} ; G2 = 3.44 \text{ dBi} ;$$

$$5G \ UNII-4 \ G1 = 3.29 \text{ dBi} ; G2 = 3.44 \text{ dBi} ;$$

$$2.4G \ DG = 5.22 \text{ dBi}$$

$$5G \ UNII-1 \ DG = 6.27 \text{ dBi}$$

$$5G \ UNII-2A \ DG = 6.32 \text{ dBi}$$

$$5G \ UNII-2C \ DG = 6.22 \text{ dB}$$

$$5G \ UNII-3 \ DG = 6.38 \text{ dBi}$$

$$5G \ UNII-4 \ DG = 6.38 \text{ dBi}$$

**<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 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)	0.784	1.06	2.888m	1k
BT-EDR(2Mbps)	0.742	1.3	2.889m	1k
BT-EDR(3Mbps)	0.785	1.05	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 V4.0.00192.0

**1.1.5 Table for Multiple Listing**

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

Model Name	Description
LN1200 v2	For retail
LN1210 v2	For e-commerce
LN1215 v2	For Warehouse

Note 1: From the above models, model: LN1200 v2 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.

**1.1.6 Table for EUT Information**

EUT	Description
EUT 1	With Conductive Fabric
EUT 2	Without Conductive Fabric

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

Note 2: The above information was declared by manufacturer.

**1.1.7 Table for EUT Supports Function**

Function
AP
Mesh

Note 1: For above table list, only AP mode was tested and recorded in this test.

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 (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) 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	21.5~22.9 / 65~68	Jan. 11, 2024~ Jan. 29, 2024
Radiated (Below 1GHz)	03CH04-CB	Mark Hsu	22.7-23.8 / 56-59	Feb. 21, 2024
Radiated (Above 1GHz)	03CH01-CB	Mark Hsu	21.6-22.7 / 56-59	Jan. 02, 2024~ Jan. 27, 2024
	03CH05-CB	Mark Hsu	21.9-22.4 / 55-58	Jan. 02, 2024~ Jan. 27, 2024
AC Conduction	CO01-CB	Summer Li	22~23 / 50~51	Jan. 23, 2024



### 1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.2%	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

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



## 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 1 + Adapter 1
2	EUT 1 + Adapter 2
3	EUT 1 + Adapter 3 + US Plug
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.
<b>Operating Mode &lt; 1GHz</b>	CTX
After evaluating, and 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 1 in Z axis + WLAN 2.4GHz + Adapter 1
2	EUT 1 in Z axis + WLAN 2.4GHz + Adapter 2
3	EUT 1 in Z axis + WLAN 2.4GHz + Adapter 3 + US Plug
Mode 1 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 ~ 5 will follow this same test mode.	
4	EUT 1 in Z axis + WLAN 5GHz + Adapter 1
5	EUT 1 in Z axis + Bluetooth + Adapter 1
For operating mode 4 is the worst case and it was record in this test report.	



<b>Operating Mode &gt; 1GHz</b>	CTX
After evaluating, and 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 1 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	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
Refer to Sporton Test Report No.: FA3D2301 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-18W-050300VU	INPUT: 100-240V~50/60Hz, 0.5A OUTPUT: 5.0V, 3.0A
Adapter 2	MOSO	MSA-C3000IC5.0-18P-US	INPUT: 100-240V~50/60Hz, 0.7A max. OUTPUT: 5.0V, 3A
Adapter 3	Ktec	KSA-18W-050300D5	INPUT: 100-240V ~ 50/60Hz, 0.5A OUTPUT: 5.0V, 3.0A
<b>Other</b>			
US Plug*1 (Equip with Adapter 3 use only)			



## 2.5 Support Equipment

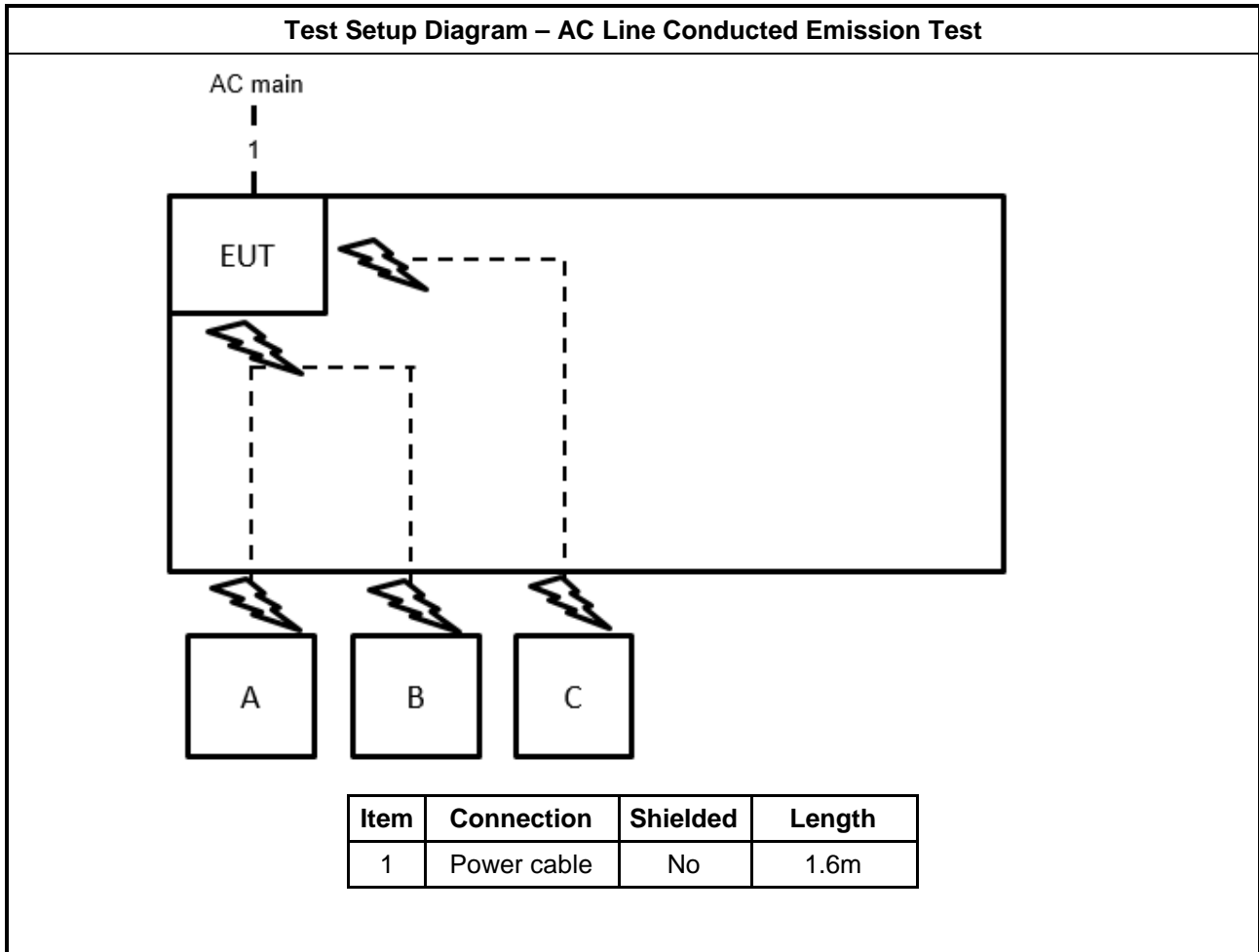
For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	2.4G NB	DELL	E6220	N/A
B	5G NB	DELL	E6220	N/A
C	Smart phone	Samsung	Galaxy J2	N/A

For Radiated and RF Conducted:

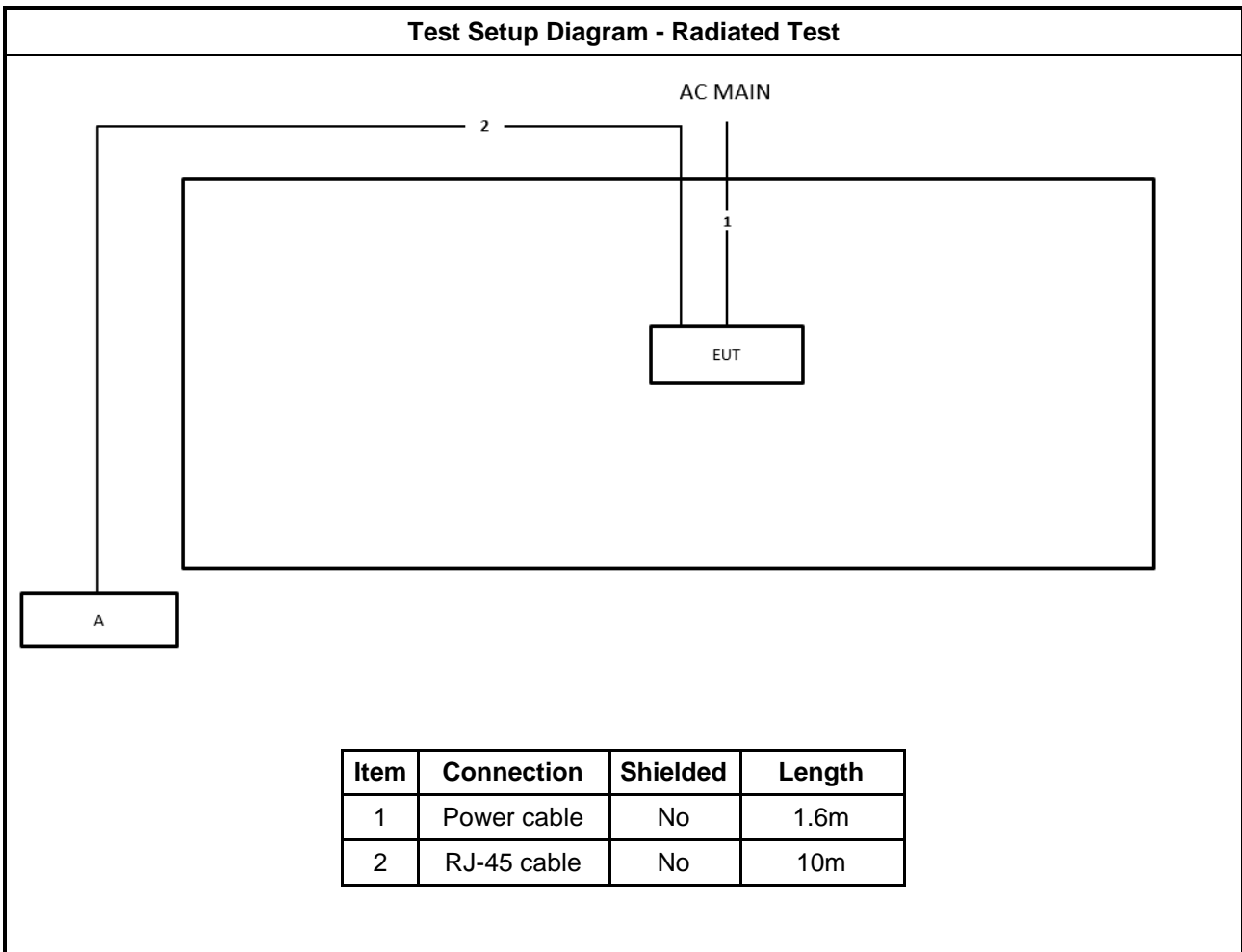
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

## 2.6 Test Setup Diagram





**Test Setup Diagram - Radiated Test**



Item	Connection	Shielded	Length
1	Power cable	No	1.6m
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.

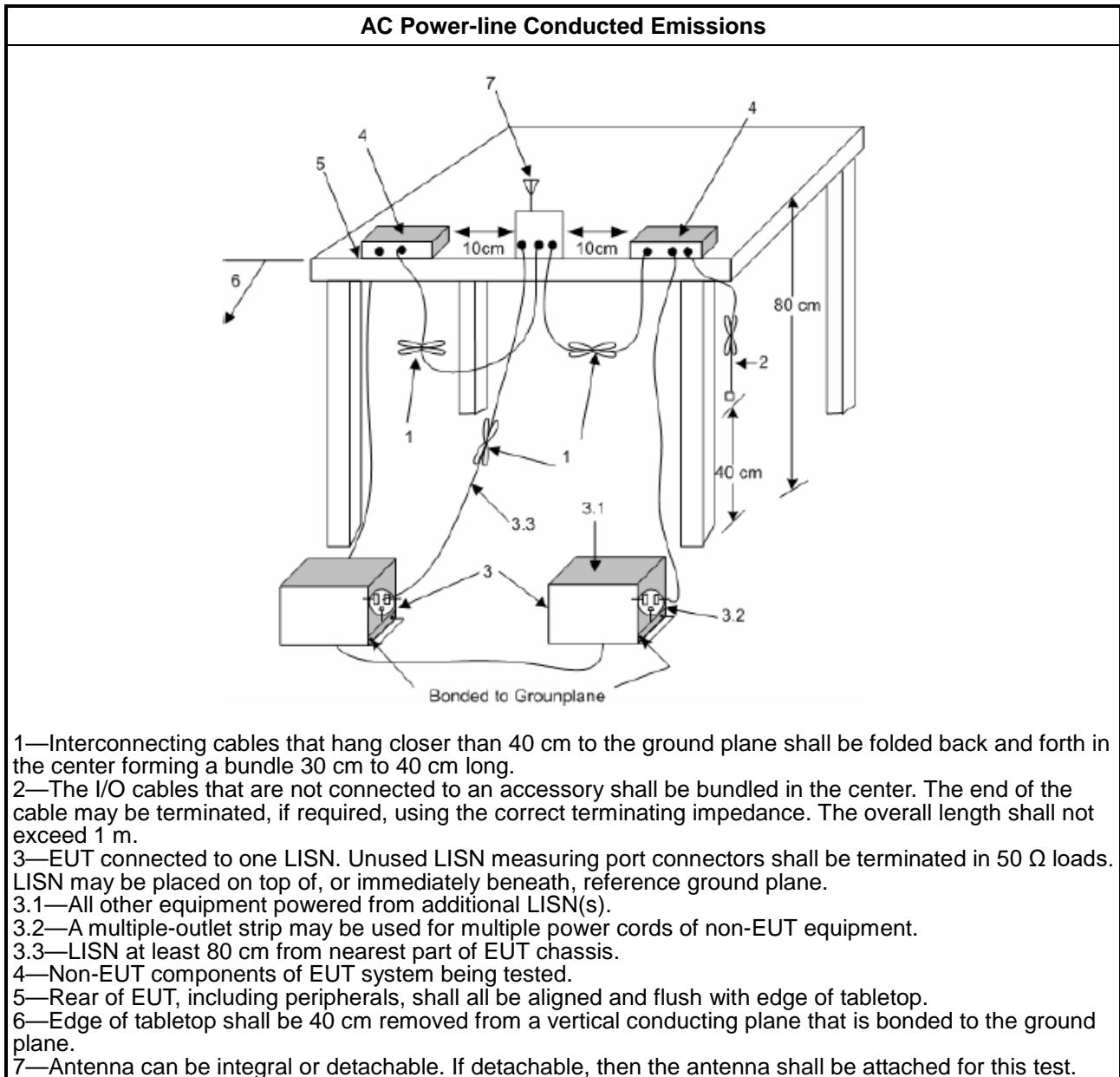
##### 3.1.2 Measuring Instruments

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	

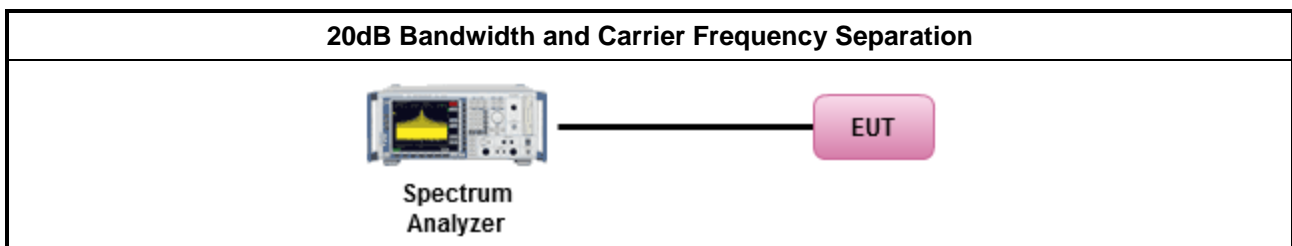
#### 3.2.2 Measuring Instruments

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	

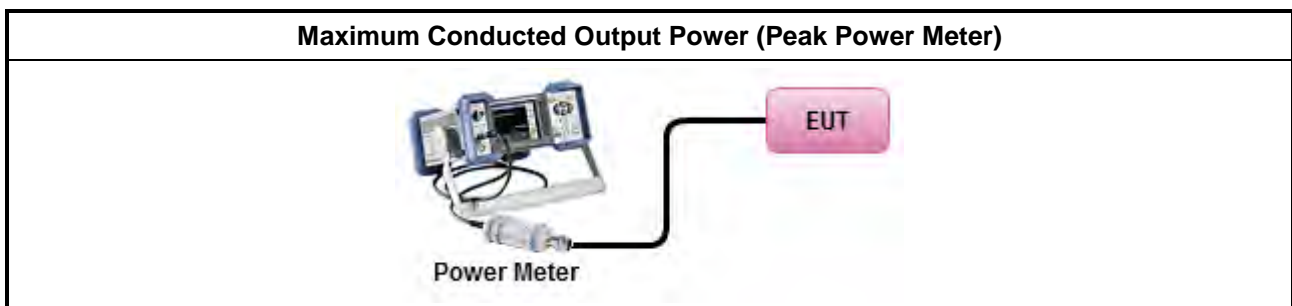
#### 3.3.2 Measuring Instruments

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

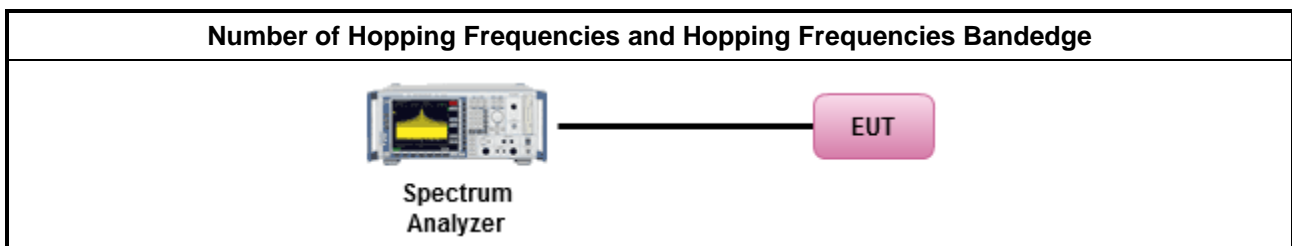
#### 3.4.3 Measuring Instruments

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	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$ ; 0.4s in 20s period
	▪ $50 > N \geq 25$ ; 0.4s in 10s period
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$ ; 0.4s in $N \times 0.4$ period
	▪ $75 > N \geq 15$ ; 0.4s in $N \times 0.4$ period
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$ ; 0.4s in 30s period
N: Number of Hopping Frequencies	

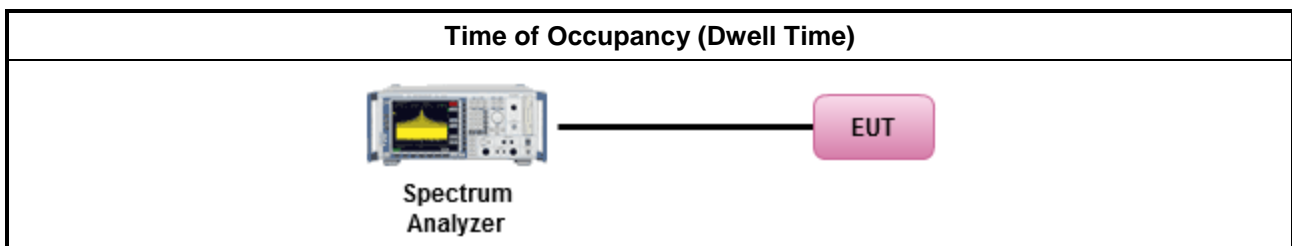
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

Test Method	
▪ Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.	
▪ 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.	
	▪ 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 $1600 / 79 / 6 = 3.37$ hops per second in each channel.

#### 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.

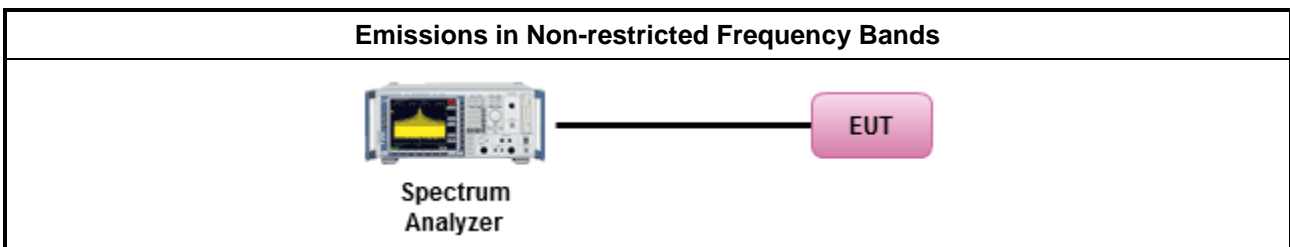
#### 3.6.2 Measuring Instruments

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

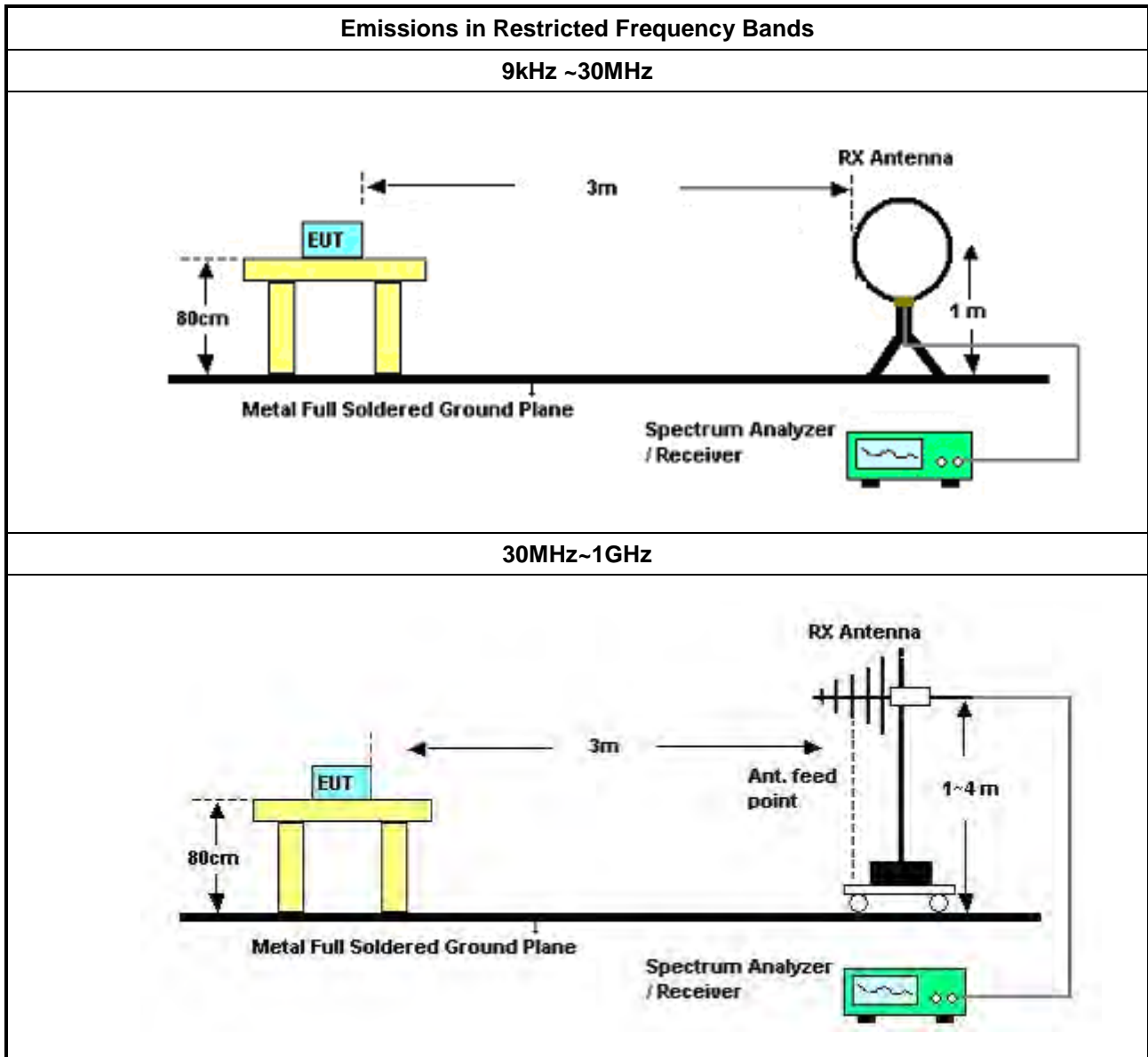
Refer a test equipment and calibration data table in this test report.

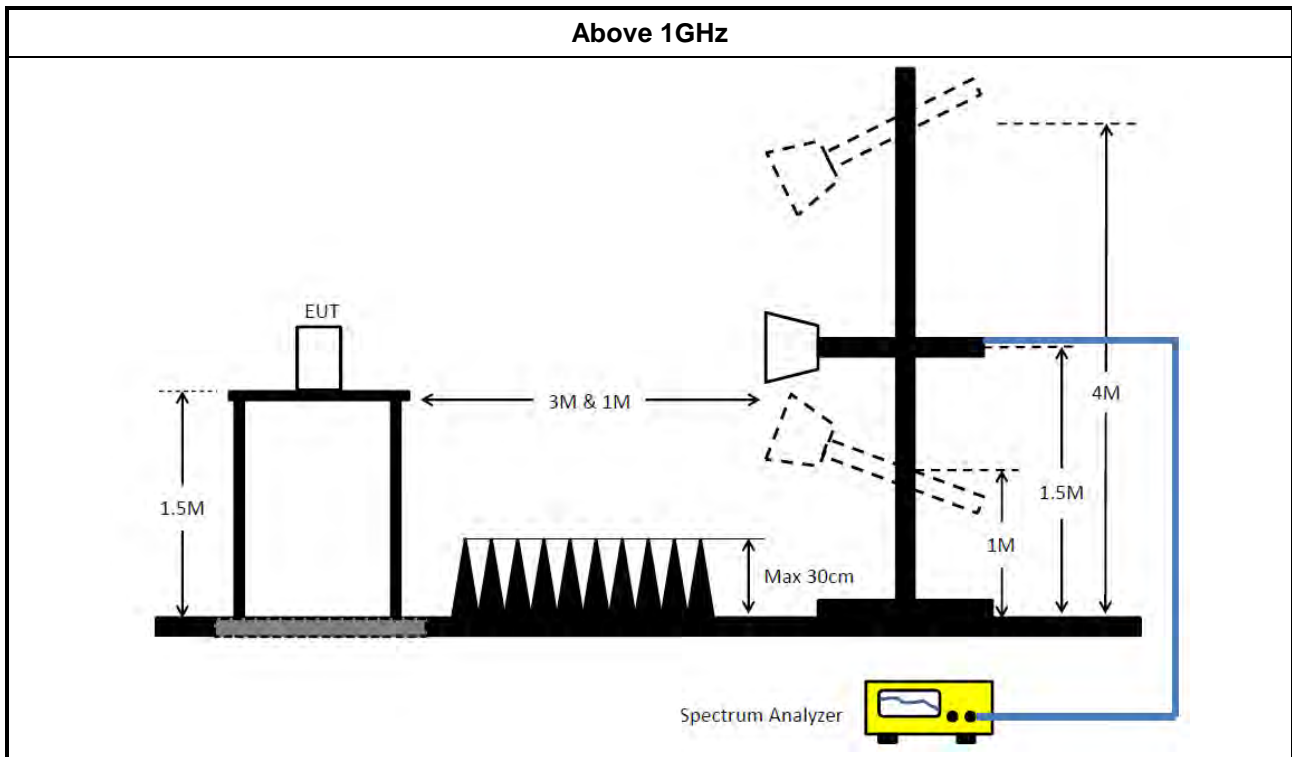
#### 3.7.3 Test Procedures

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:               <table border="1"> <tbody> <tr> <td> <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.</li> </ul> </td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.</li> </ul> </td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.</li> </ul> </td> </tr> </tbody> </table> </li> </ul>		<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.</li> </ul>	<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.</li> </ul>	<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.</li> </ul>
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.</li> </ul>				
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.</li> </ul>				
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.</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. 20, 2023	Feb. 19, 2024	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-5 0-16-2	04083	150kHz ~ 100MHz	Feb. 16, 2023	Feb. 15, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 27, 2023	Apr. 26, 2024	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH04-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH04-CB	30 MHz ~ 1 GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH04-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & EMC	CBL6112B & N-6-06	22021&AT-N06 07	30MHz ~ 1GHz	Oct. 07, 2023	Oct. 06, 2024	Radiation (03CH04-CB)
Pre-Amplifier	EMCI	EMC330N	980391	20MHz ~ 3GHz	May 23, 2023	May 22, 2024	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 21, 2023	Mar. 20, 2024	Radiation (03CH04-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+67	30MHz ~ 1GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 05, 2023	May 04, 2024	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 20, 2023	Dec. 19, 2024	Radiation (05CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 18, 2023	May 17, 2024	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 28, 2023	Nov. 27, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Sep. 29, 2023	Sep. 28, 2024	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120 D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 08, 2023	Jun. 07, 2024	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630 SE	980287	1GHz – 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 22, 2023	Dec. 21, 2024	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 04, 2023	Sep. 03, 2024	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 04, 2023	Sep. 03, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)



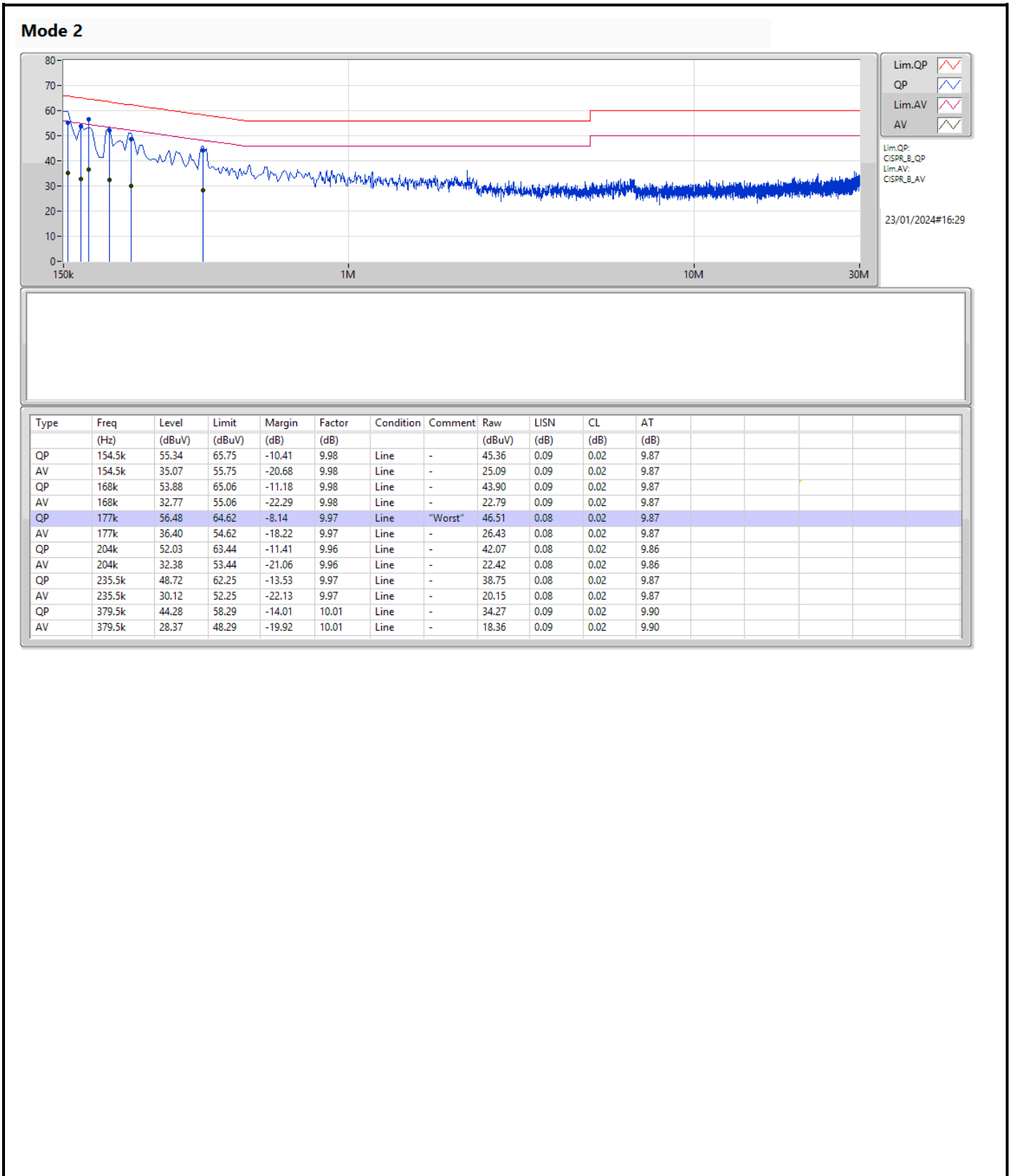
Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 ~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

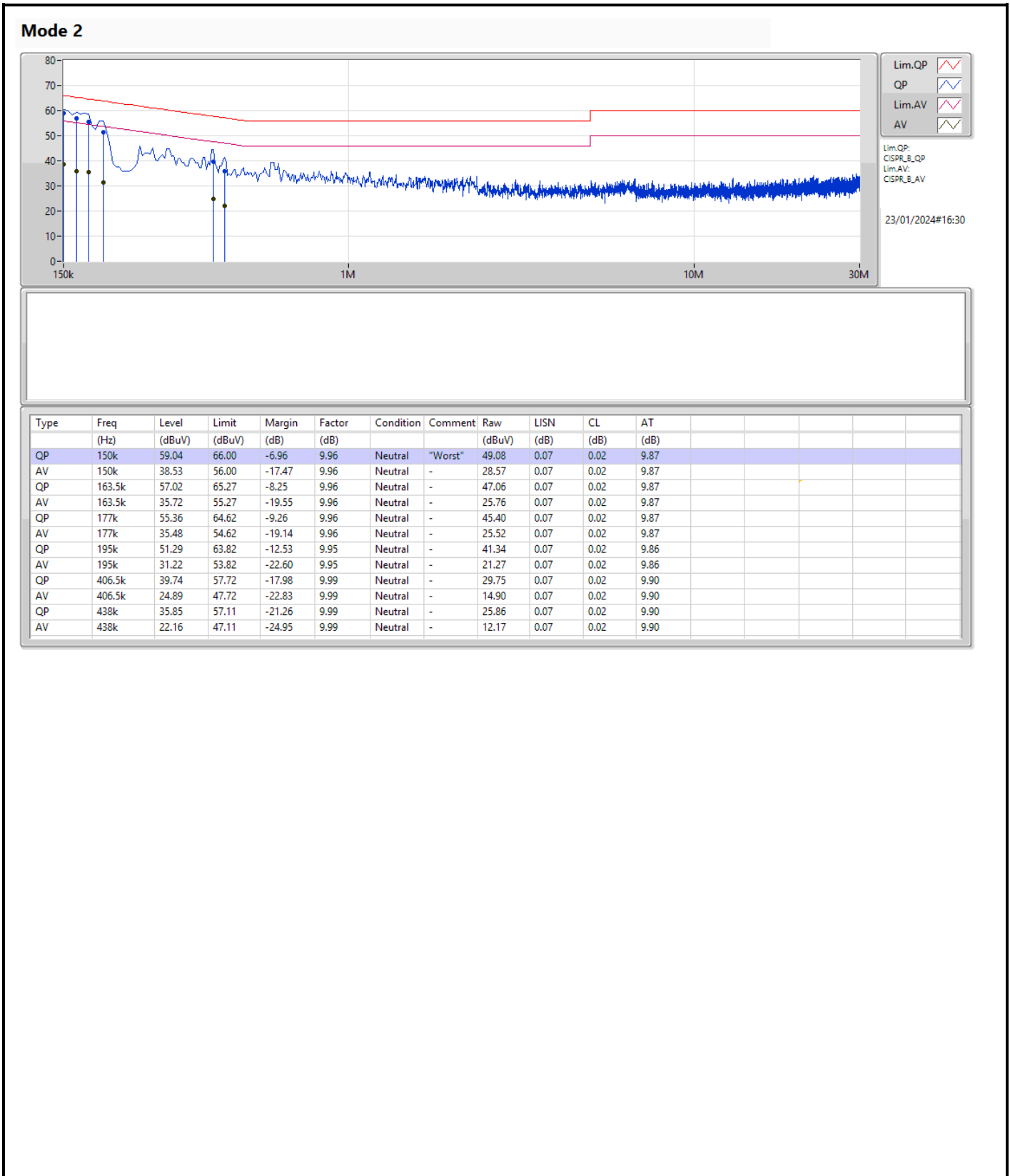
Note: Calibration Interval of instruments listed above is one year.  
NCR means Non-Calibration required.



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	150k	59.04	66.00	-6.96	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)	965.25k	880.183k	880KF1D	957k	812.926k
BT-EDR(2Mbps)	1.268M	1.195M	1M20G1D	1.218M	1.175M
BT-EDR(3Mbps)	1.342M	1.215M	1M22G1D	1.249M	1.194M

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	962.5k	812.926k
2440MHz	Pass	Inf	965.25k	880.183k
2480MHz	Pass	Inf	957k	825.399k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.218M	1.193M
2440MHz	Pass	Inf	1.254M	1.175M
2480MHz	Pass	Inf	1.268M	1.195M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.262M	1.194M
2440MHz	Pass	Inf	1.342M	1.215M
2480MHz	Pass	Inf	1.249M	1.212M

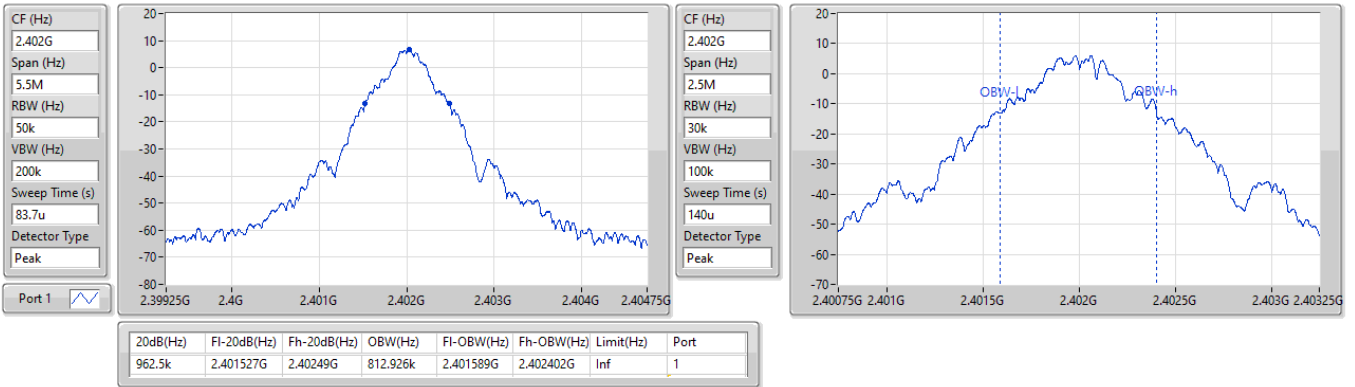
Port X-N dB = Port X 20dB down bandwidth;  
 Port X-OBW = Port X 99% occupied bandwidth

**2.4-2.4835GHz\_BT-BR(1Mbps)**

**EBW-FS**

**2402MHz**

29/01/2024

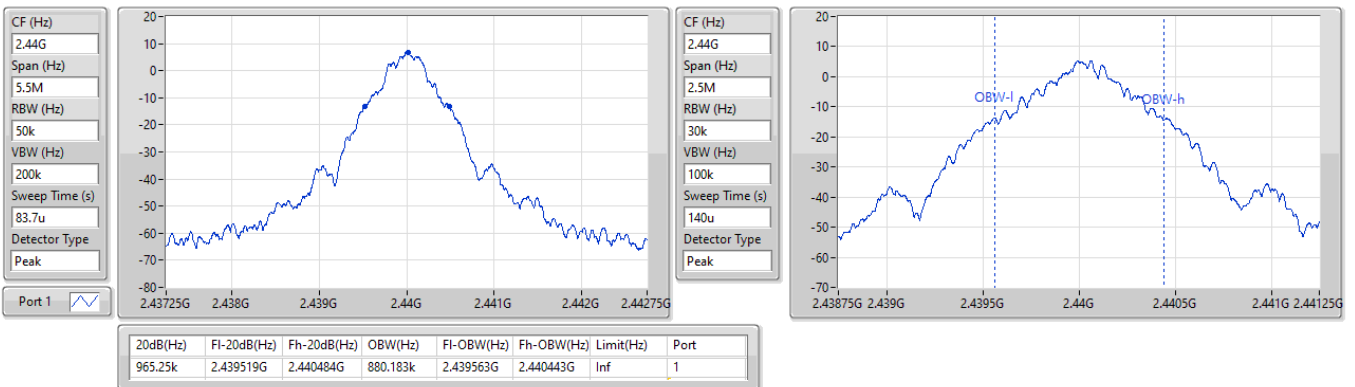


**2.4-2.4835GHz\_BT-BR(1Mbps)**

**EBW-FS**

**2440MHz**

29/01/2024

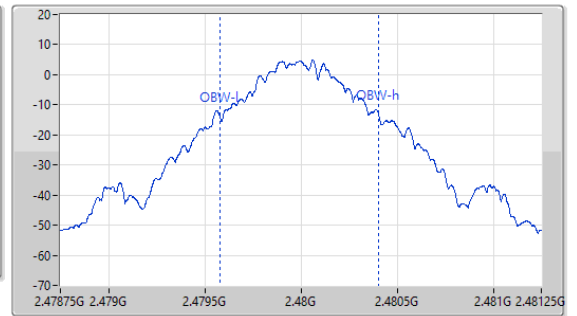
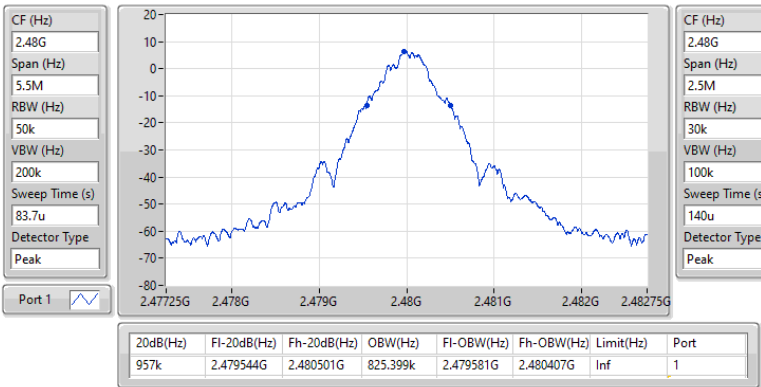


**2.4-2.4835GHz\_BT-BR(1Mbps)**

**EBW-FS**

**2480MHz**

29/01/2024

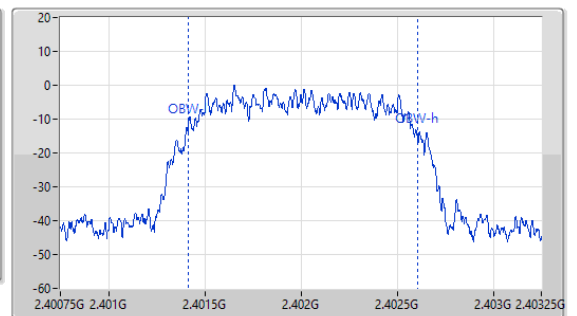
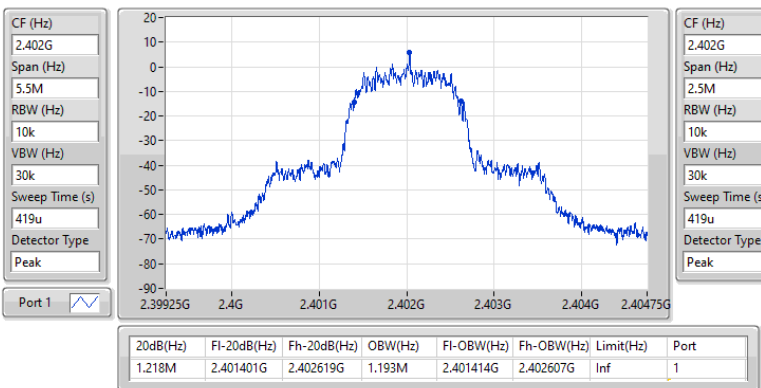


**2.4-2.4835GHz\_BT-EDR(2Mbps)**

**EBW-FS**

**2402MHz**

29/01/2024

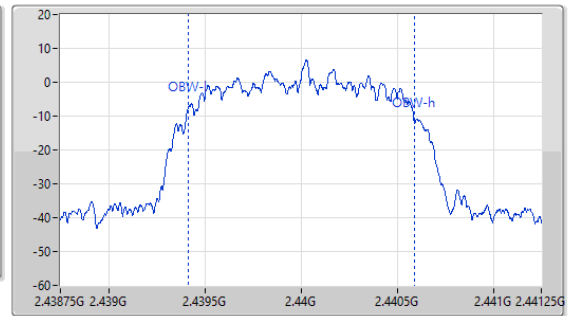
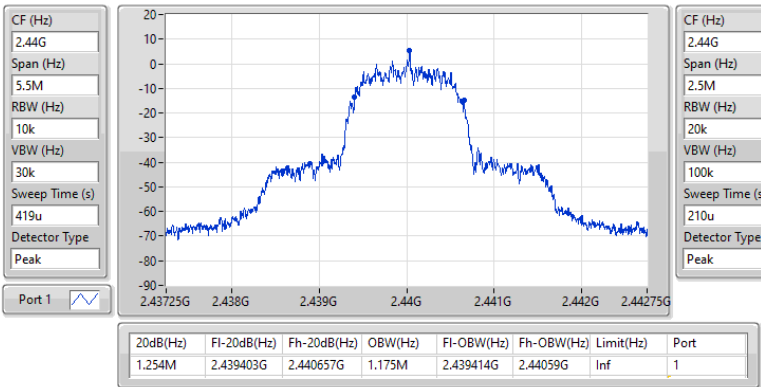


**2.4-2.4835GHz\_BT-EDR(2Mbps)**

**EBW-FS**

**2440MHz**

29/01/2024

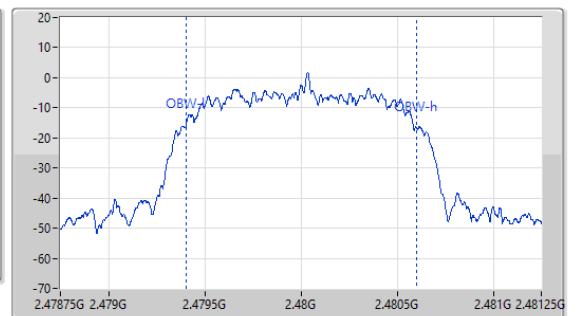
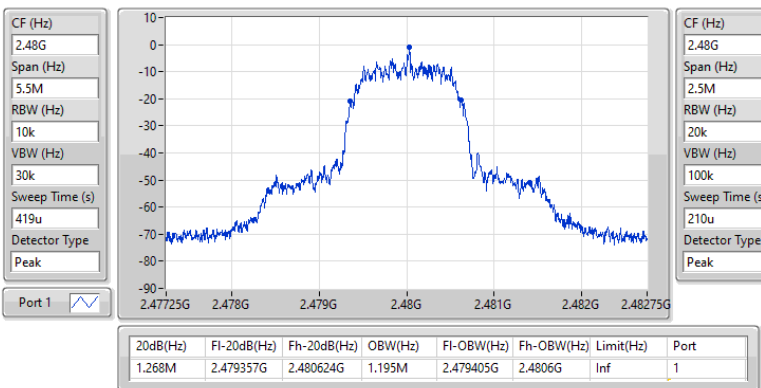


**2.4-2.4835GHz\_BT-EDR(2Mbps)**

**EBW-FS**

**2480MHz**

29/01/2024

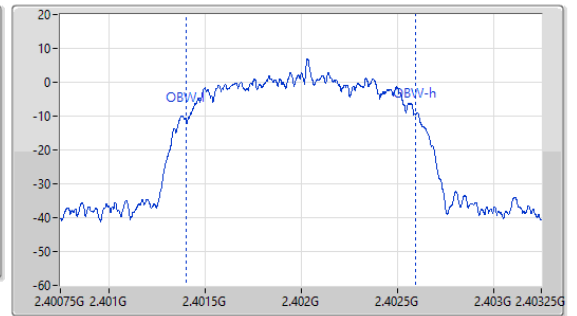
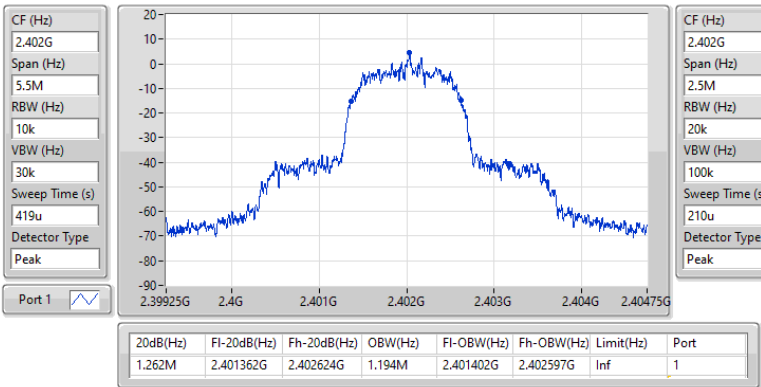


**2.4-2.4835GHz\_BT-EDR(3Mbps)**

**EBW-FS**

**2402MHz**

29/01/2024

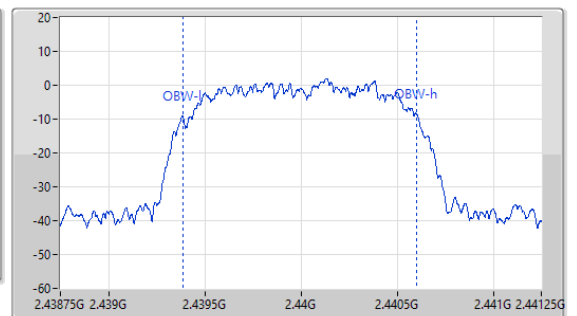
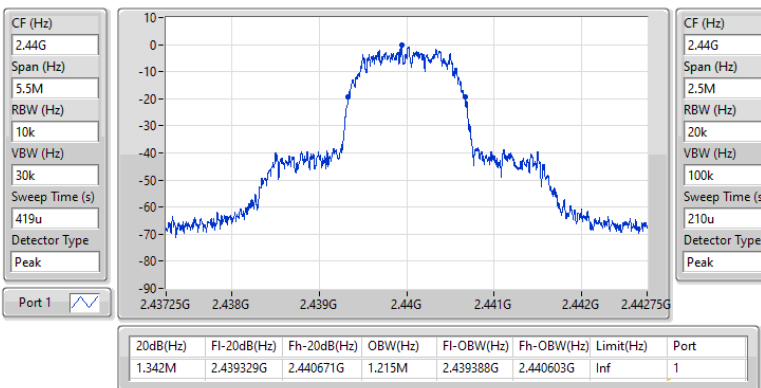


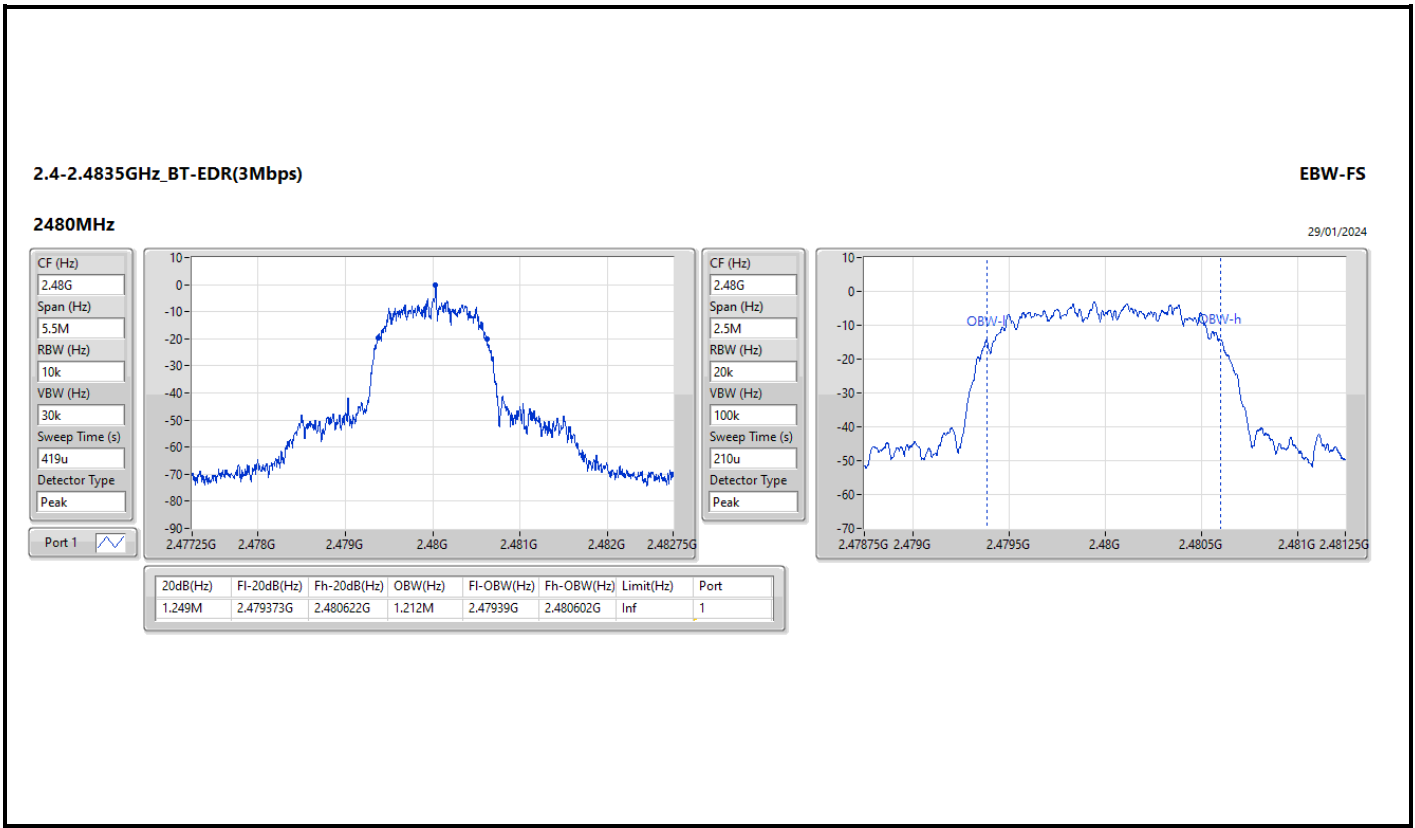
**2.4-2.4835GHz\_BT-EDR(3Mbps)**

**EBW-FS**

**2440MHz**

29/01/2024







**Summary**

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





Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402019G	2.403019G	1.0005M	641.025k
2440MHz	Pass	2.440019G	2.441021G	1.002M	642.8565k
2480MHz	Pass	2.479017G	2.480019G	1.002M	637.362k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402019G	2.403019G	1.0005M	811.188k
2440MHz	Pass	2.440019G	2.441019G	1.0005M	835.164k
2480MHz	Pass	2.479019G	2.480019G	1.0005M	844.488k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402019G	2.403019G	1.0005M	840.492k
2440MHz	Pass	2.440019G	2.441019G	1.0005M	893.772k
2480MHz	Pass	2.479019G	2.480019G	1.0005M	831.834k


2.4-2.4835GHz\_BT-BR(1Mbps)

Channel Separation-FS

2.402G/2.403GHz

29/01/2024



Port 1 

Ch Freq (Hz)	2.402G/2.403G
Span (Hz)	3M
RBW (Hz)	30k
VBW (Hz)	100k
Sweep (s)	2.01m
Detector	Peak

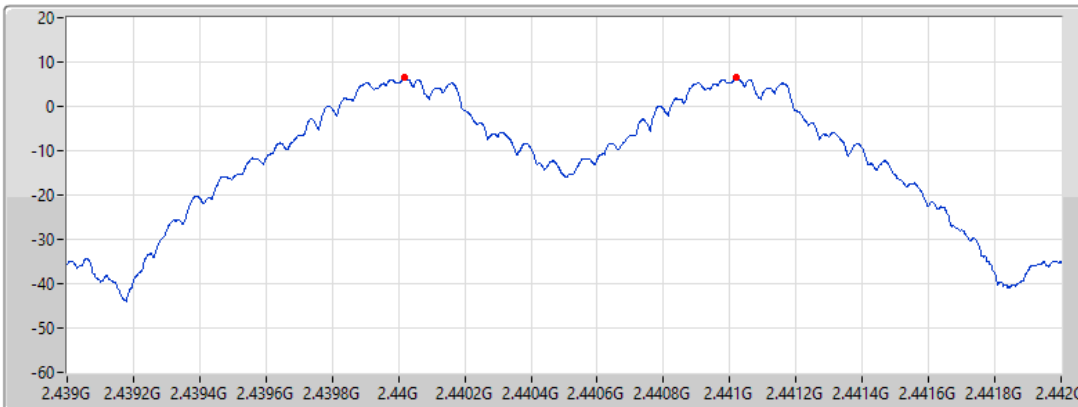
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402019G	2.403019G	1.0005M	641.025k


2.4-2.4835GHz\_BT-BR(1Mbps)

Channel Separation-FS

2.44G/2.441GHz

29/01/2024



Port 1 

Ch Freq (Hz)	2.44G/2.441G
Span (Hz)	3M
RBW (Hz)	30k
VBW (Hz)	100k
Sweep (s)	2.01m
Detector	Peak

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440019G	2.441021G	1.002M	642.8565k


2.4-2.4835GHz\_BT-BR(1Mbps)

Channel Separation-FS

2.48G/2.479GHz

29/01/2024



Port 1 

Ch Freq (Hz)  
2.48G/2.479G

Span (Hz)  
3M

RBW (Hz)  
30k

VBW (Hz)  
100k

Sweep (s)  
2.01m

Detector  
Peak

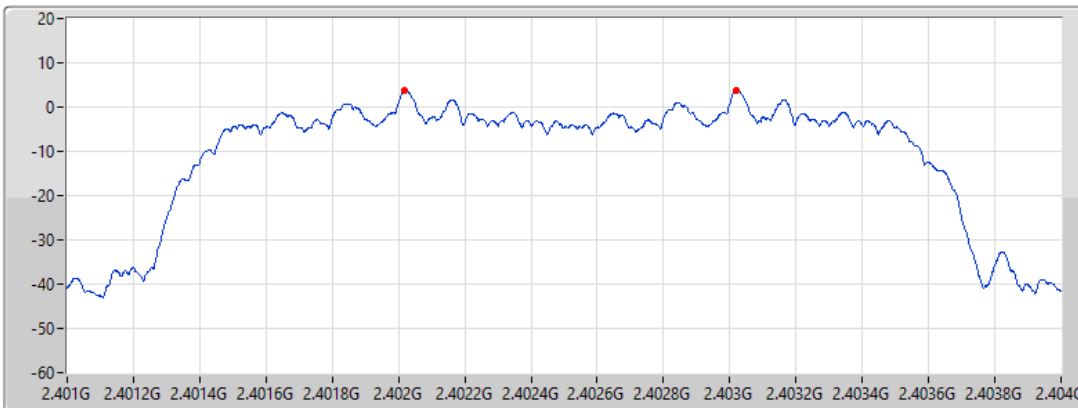
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479017G	2.480019G	1.002M	637.362k


2.4-2.4835GHz\_BT-EDR(2Mbps)

Channel Separation-FS

2.402G/2.403GHz

29/01/2024



Port 1 

Ch Freq (Hz)  
2.402G/2.403G

Span (Hz)  
3M

RBW (Hz)  
30k

VBW (Hz)  
100k

Sweep (s)  
2.01m

Detector  
Peak

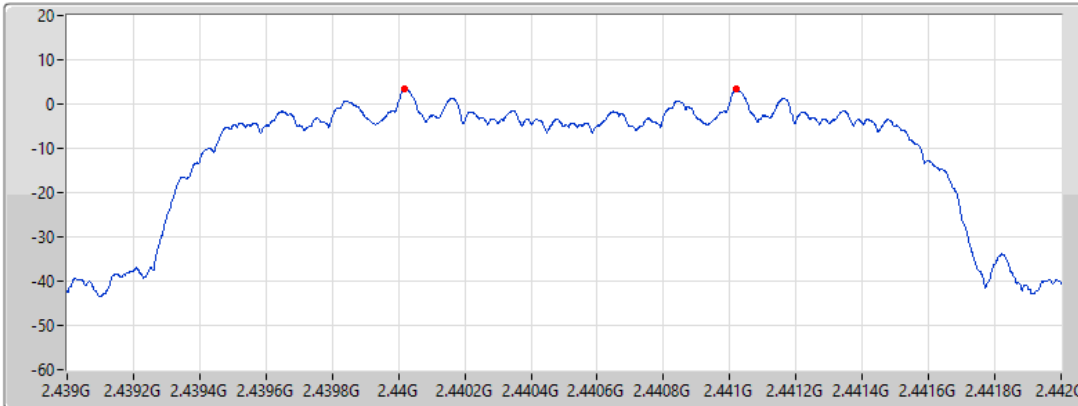
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402019G	2.403019G	1.0005M	811.188k


2.4-2.4835GHz\_BT-EDR(2Mbps)

Channel Separation-FS

2.44G/2.441GHz

29/01/2024



Port 1 

Ch Freq (Hz)  
2.44G/2.441G

Span (Hz)  
3M

RBW (Hz)  
30k

VBW (Hz)  
100k

Sweep (s)  
2.01m

Detector  
Peak

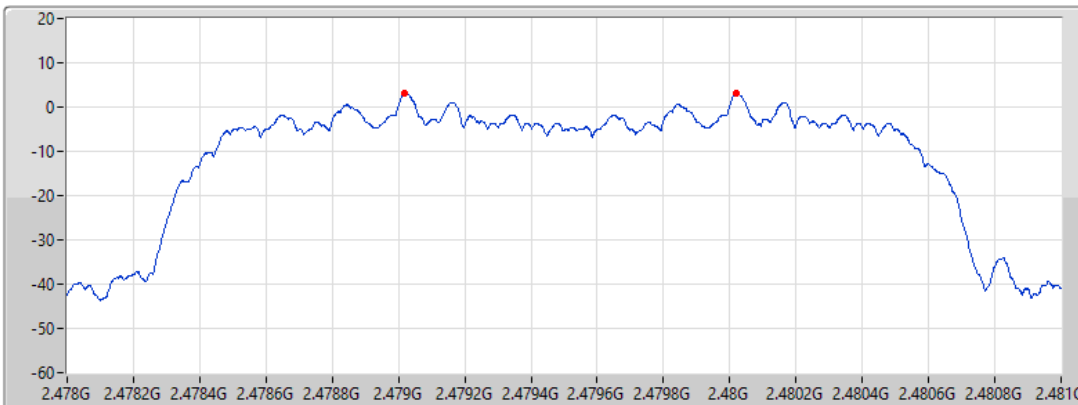
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440019G	2.441019G	1.0005M	835.164k


2.4-2.4835GHz\_BT-EDR(2Mbps)

Channel Separation-FS

2.48G/2.479GHz

29/01/2024



Port 1 

Ch Freq (Hz)  
2.48G/2.479G

Span (Hz)  
3M

RBW (Hz)  
30k

VBW (Hz)  
100k

Sweep (s)  
2.01m

Detector  
Peak

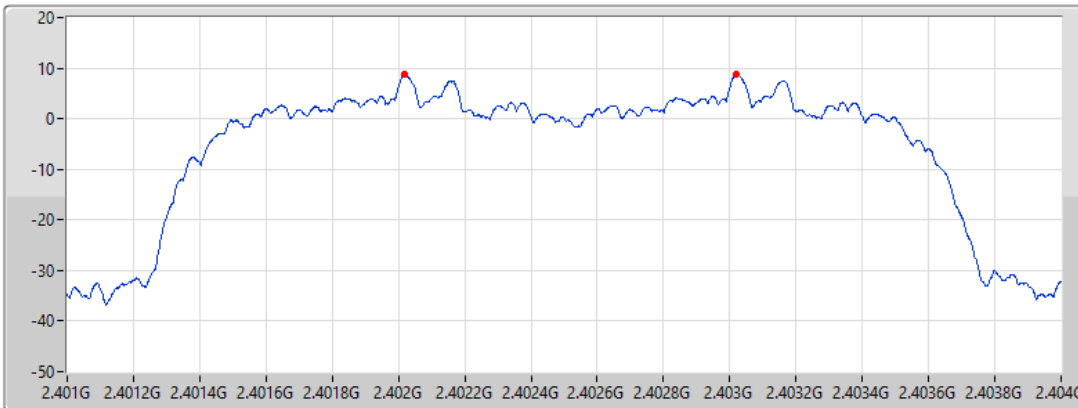
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479019G	2.480019G	1.0005M	844.488k


2.4-2.4835GHz\_BT-EDR(3Mbps)

Channel Separation-FS

2.402G/2.403GHz

29/01/2024



Port 1 

Ch Freq (Hz)  
2.402G/2.403G

Span (Hz)  
3M

RBW (Hz)  
30k

VBW (Hz)  
100k

Sweep (s)  
2.01m

Detector  
Peak

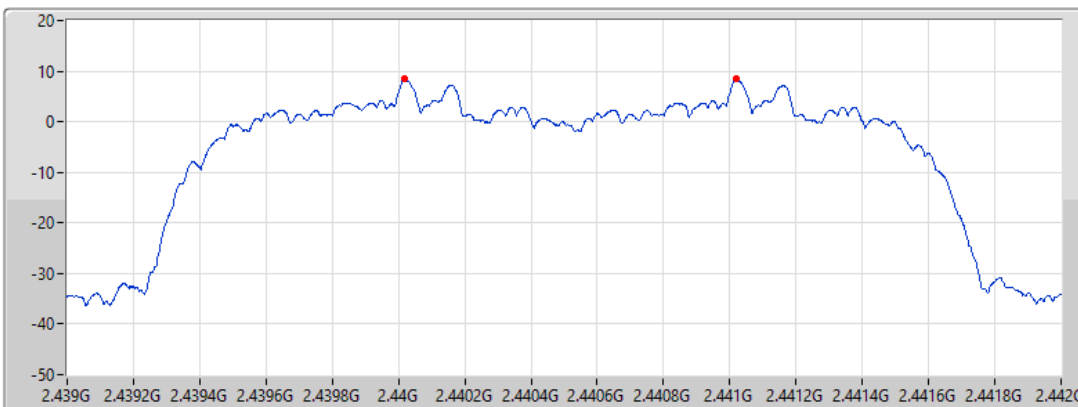
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402019G	2.403019G	1.0005M	840.492k


2.4-2.4835GHz\_BT-EDR(3Mbps)

Channel Separation-FS

2.44G/2.441GHz

29/01/2024



Port 1 

Ch Freq (Hz)  
2.44G/2.441G

Span (Hz)  
3M

RBW (Hz)  
30k

VBW (Hz)  
100k

Sweep (s)  
2.01m

Detector  
Peak

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440019G	2.441019G	1.0005M	893.772k


2.4-2.4835GHz\_BT-EDR(3Mbps)

Channel Separation-FS

2.48G/2.479GHz

29/01/2024



Port 1 

Ch Freq (Hz)  
2.48G/2.479G

Span (Hz)  
3M

RBW (Hz)  
30k

VBW (Hz)  
100k

Sweep (s)  
2.01m

Detector  
Peak

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479019G	2.480019G	1.0005M	831.834k



**Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.15	0.00822
BT-EDR(2Mbps)	10.65	0.01161
BT-EDR(3Mbps)	10.69	0.01172



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.53	9.15	21.00
2440MHz	Pass	3.53	8.83	21.00
2480MHz	Pass	3.53	8.67	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.53	10.65	21.00
2440MHz	Pass	3.53	10.37	21.00
2480MHz	Pass	3.53	5.02	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.53	10.69	21.00
2440MHz	Pass	3.53	10.03	21.00
2480MHz	Pass	3.53	5.04	21.00

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





**Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.49	0.00889
BT-EDR(2Mbps)	13.04	0.02014
BT-EDR(3Mbps)	13.39	0.02183



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.53	9.49	21.00
2440MHz	Pass	3.53	9.23	21.00
2480MHz	Pass	3.53	9.04	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.53	13.04	21.00
2440MHz	Pass	3.53	12.79	21.00
2480MHz	Pass	3.53	7.65	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.53	13.39	21.00
2440MHz	Pass	3.53	13.17	21.00
2480MHz	Pass	3.53	8.06	21.00

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



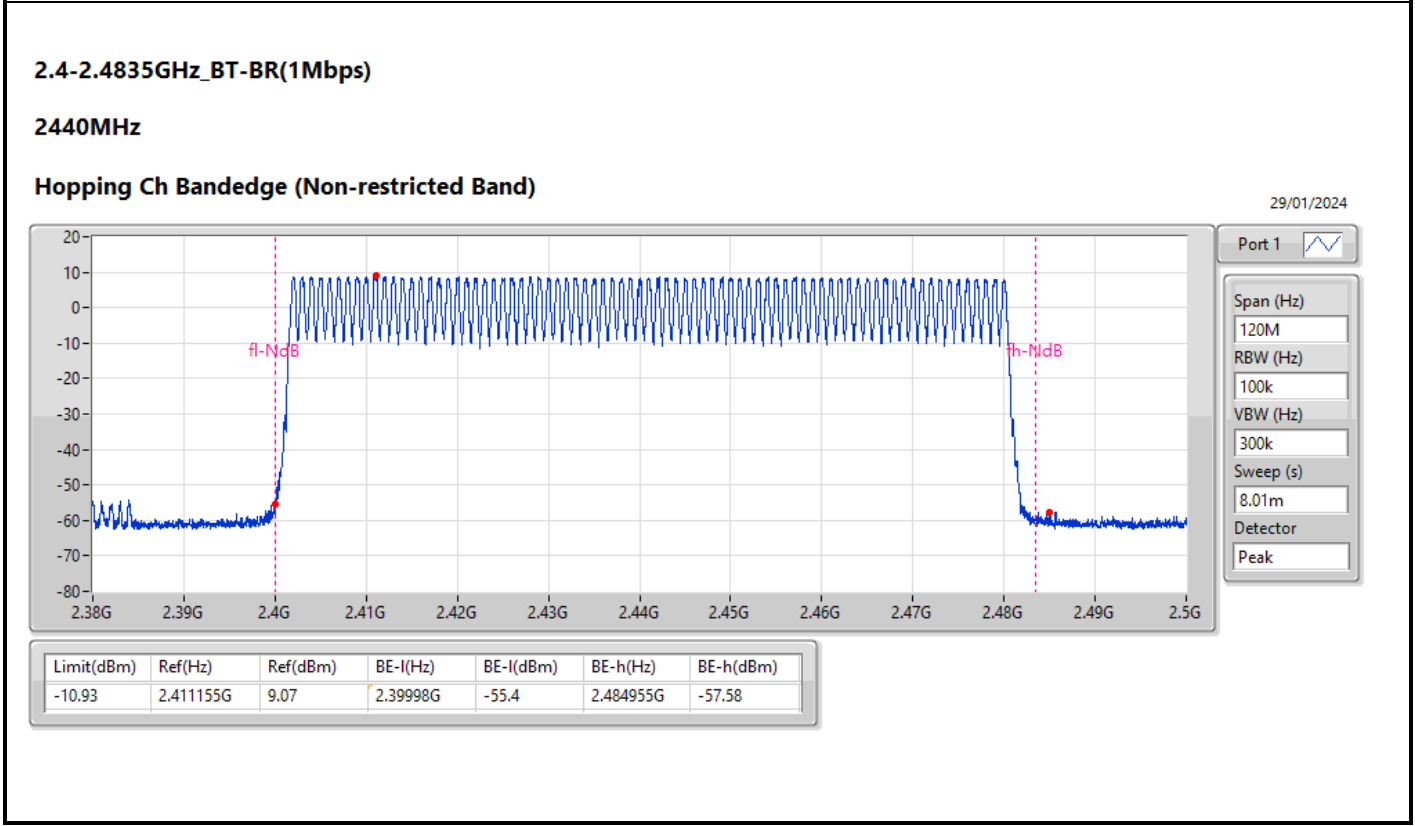
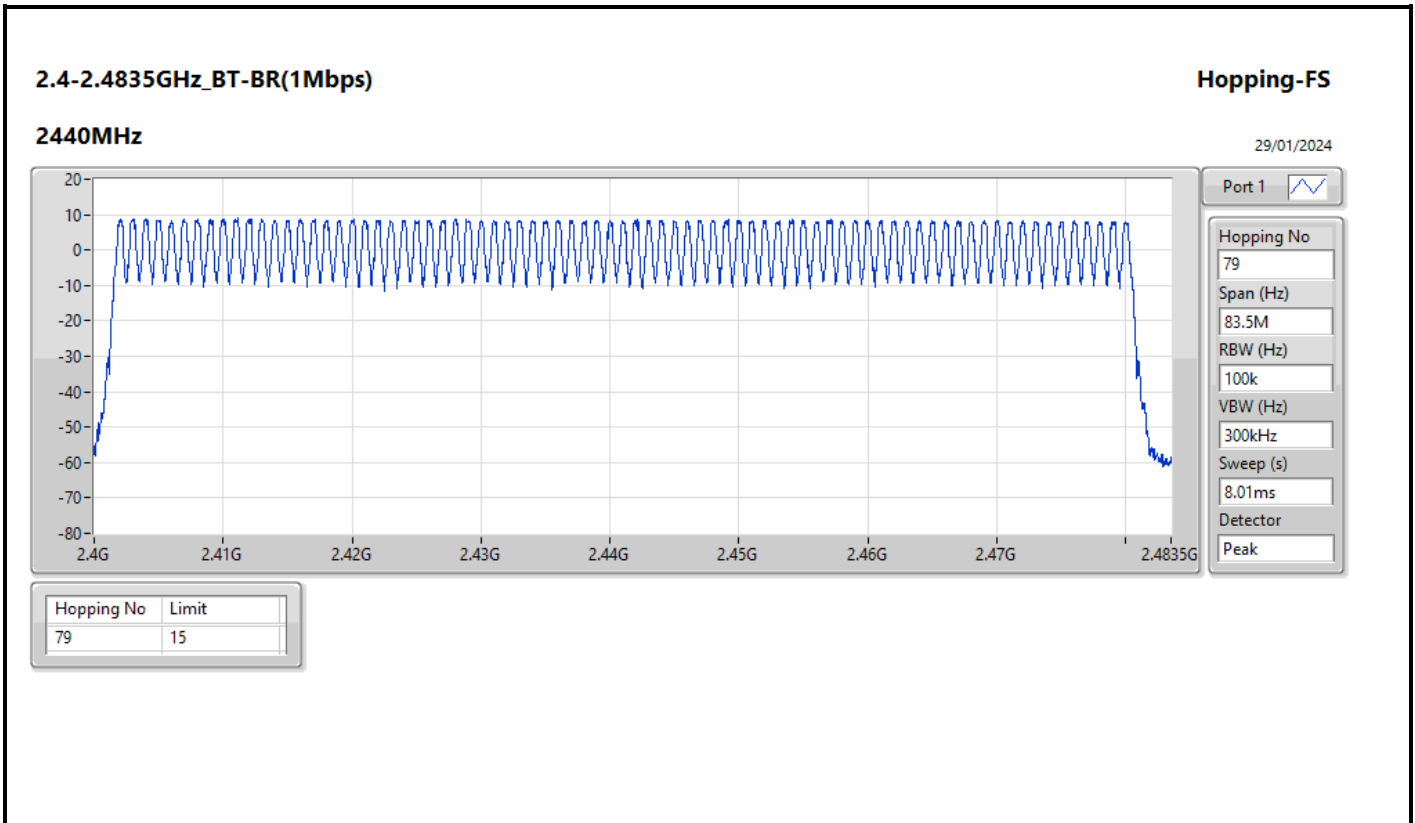
**Summary**

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

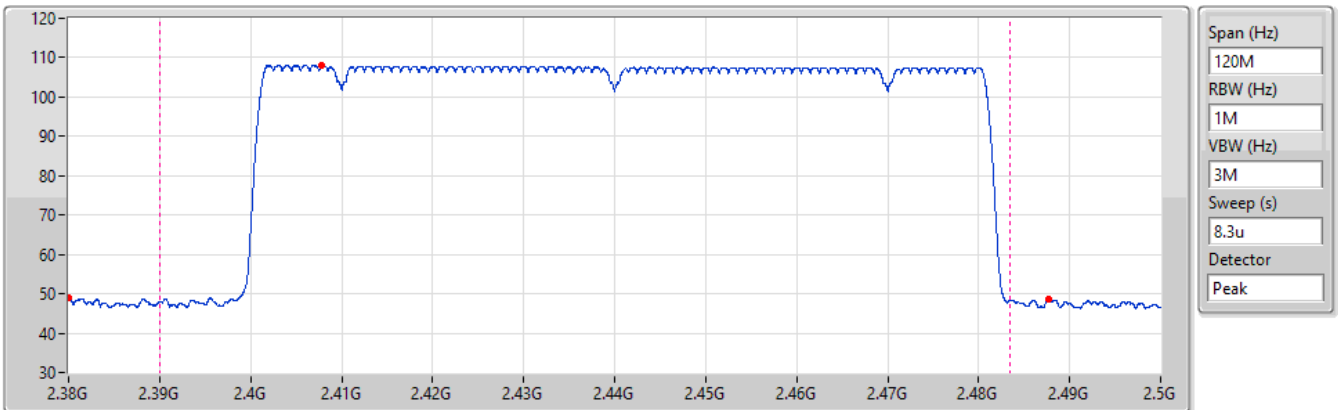


## 2.4-2.4835GHz\_BT-BR(1Mbps)

2440MHz

### Hopping Ch Bandedge (Restricted Band)

29/01/2024



Span (Hz)  
120M

RBW (Hz)  
1M

VBW (Hz)  
3M

Sweep (s)  
8.3u

Detector  
Peak

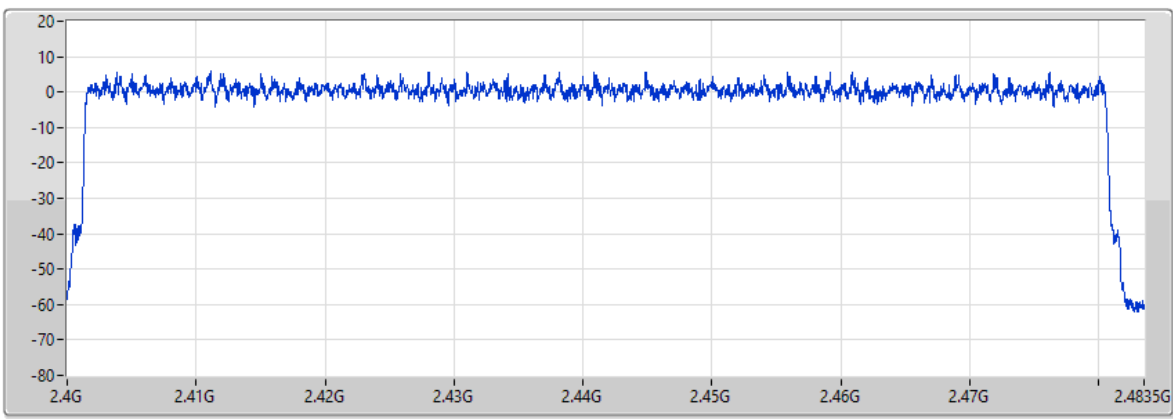
Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.40784G	107.95	2.380015G	48.9	18.8	2.4877G	48.46	18.36	74	54	3.125	-30.1

## 2.4-2.4835GHz\_BT-EDR(2Mbps)

2440MHz

### Hopping-FS

29/01/2024



Port 1

Hopping No  
79

Span (Hz)  
83.5M

RBW (Hz)  
100k

VBW (Hz)  
300kHz

Sweep (s)  
8.01ms

Detector  
Peak

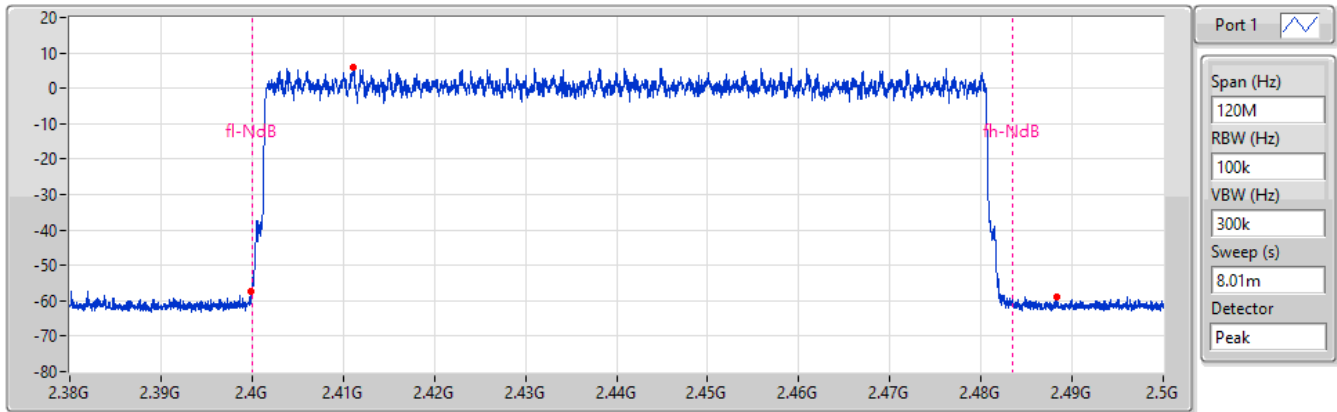
Hopping No	Limit
79	15

## 2.4-2.4835GHz\_BT-EDR(2Mbps)

2440MHz

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

29/01/2024

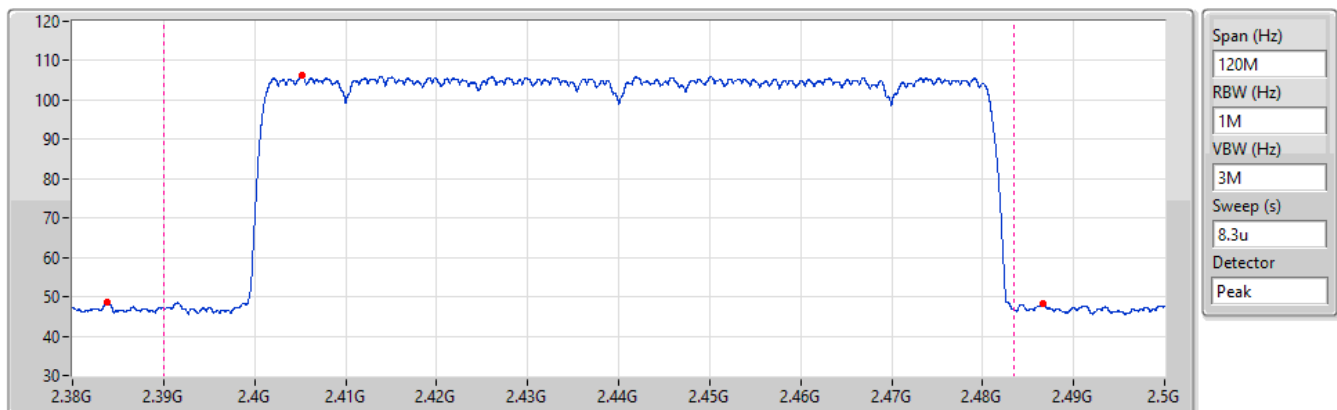


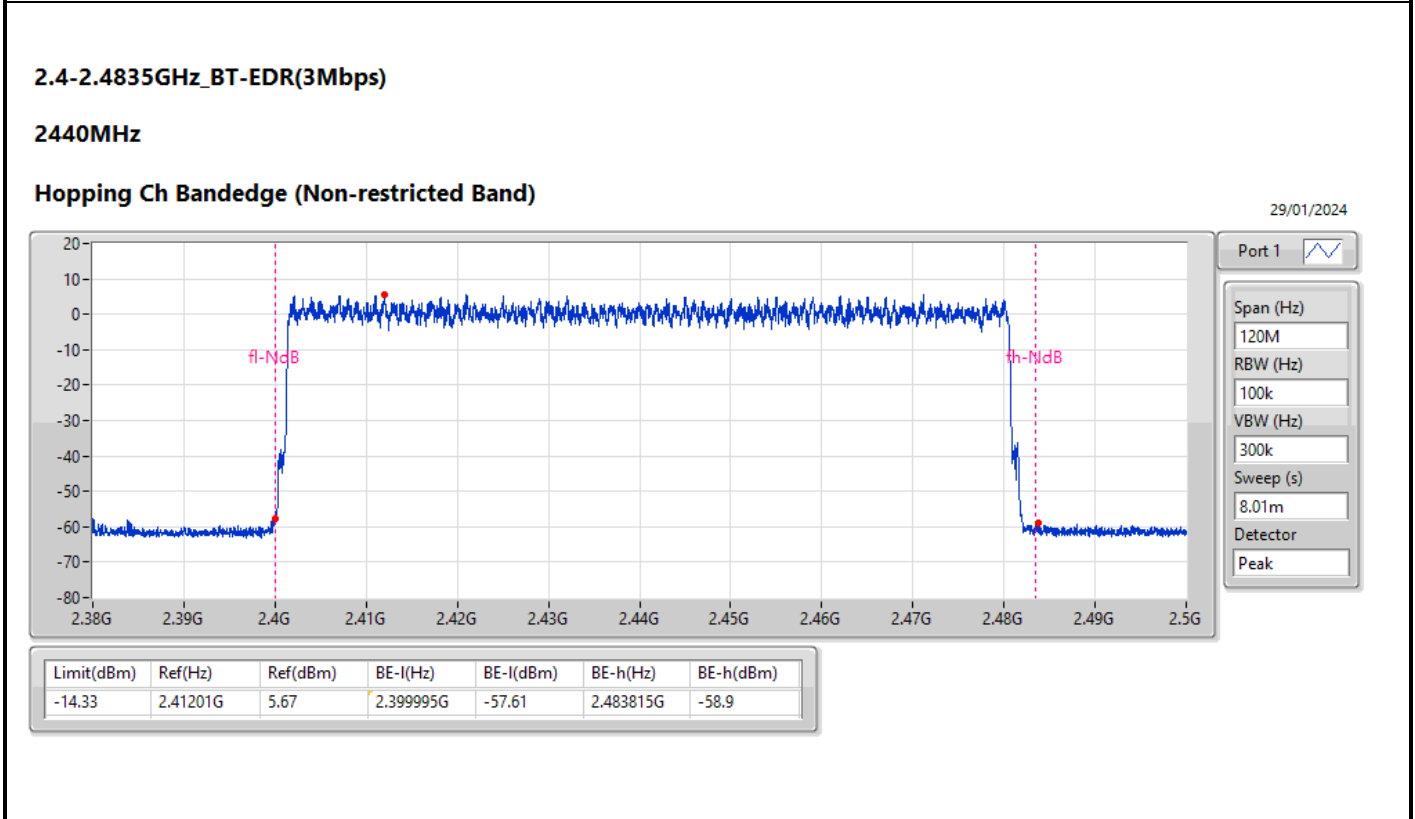
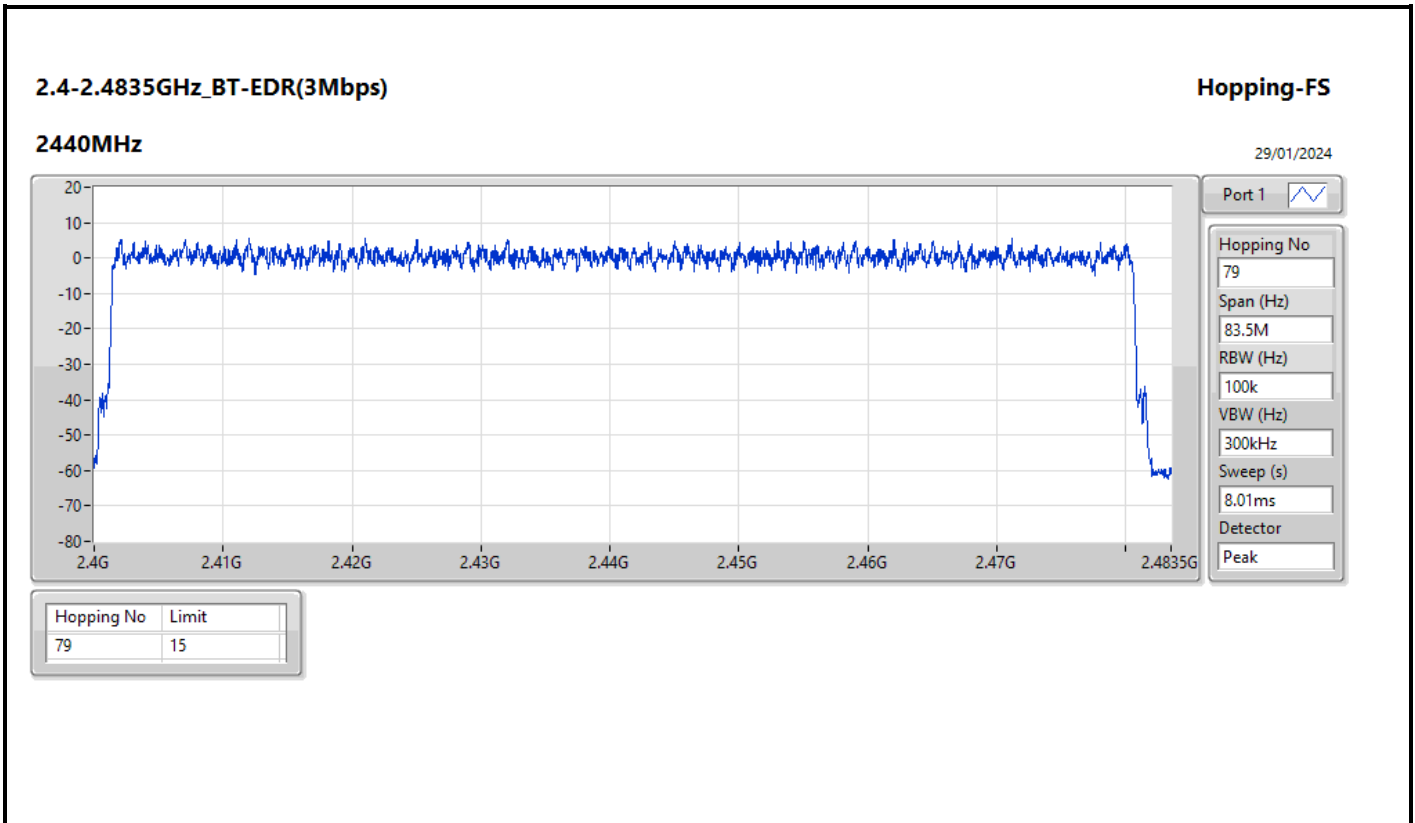
## 2.4-2.4835GHz\_BT-EDR(2Mbps)

2440MHz

### Hopping Ch Bandedge (Restricted Band)

29/01/2024





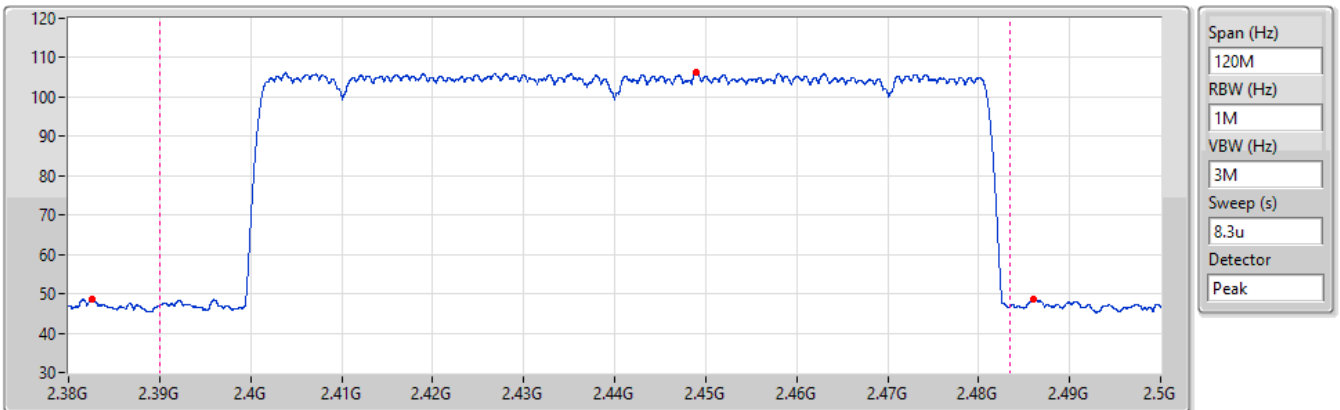


2.4-2.4835GHz\_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

29/01/2024



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)
2.449G	106.24	2.38258G	48.6	18.5	2.48608G	48.5	18.4	74	54	3.125	-30.1



**Summary**

2.4-2.4835GHz	-
BT-BR(1Mbps)	309.1933m_DH5
BT-EDR(2Mbps)	308.20725m_DH5
BT-EDR(3Mbps)	308.4471m_DH5



Result

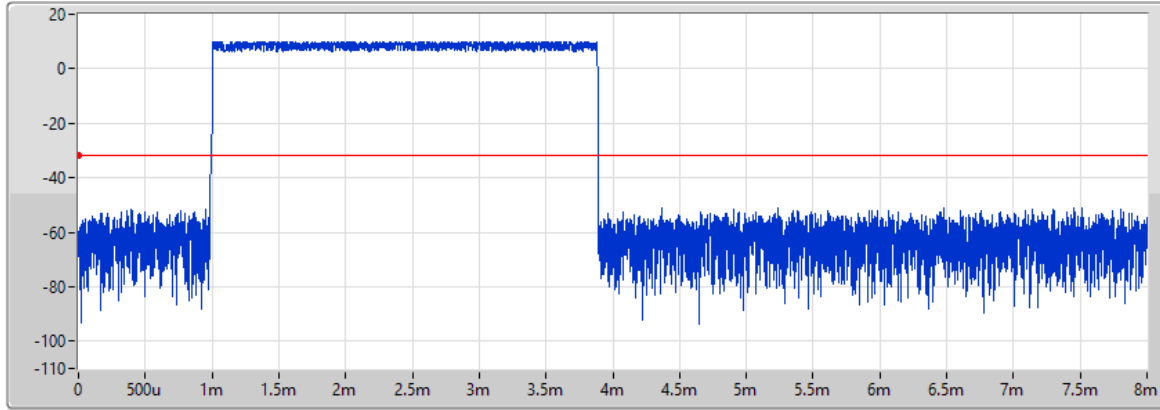
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	309.1933m_DH5	400m	2.9005m
2440MHz	Pass	8	154.59665m_DH5-AFH	400m	2.9005m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.20725m_DH5	400m	2.89125m
2440MHz	Pass	8	154.11695m_DH5-AFH	400m	2.8915m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.4471m_DH5	400m	2.8935m
2440MHz	Pass	8	154.22355m_DH5-AFH	400m	2.8935m


2.4-2.4835GHz\_BT-BR(1Mbps)

Dwell-FS

2440MHz

29/01/2024



Port 1 

Ch Freq (Hz)  
2.44G

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
8m

TX Time (s)  
2.9005m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	309.1933m_DH5	400m	2.9005m

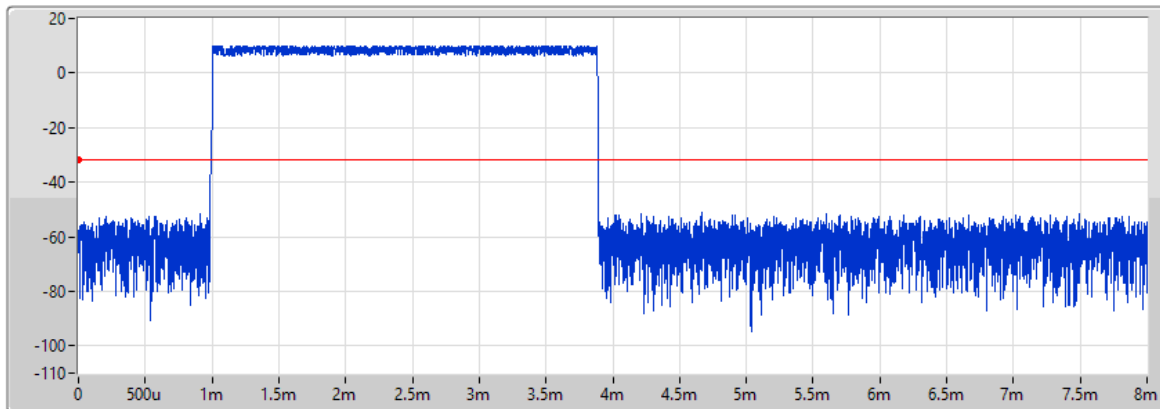
DH5


2.4-2.4835GHz\_BT-BR(1Mbps)

Dwell-FS

2440MHz

29/01/2024



Port 1 

Ch Freq (Hz)  
2.44G

RBW (Hz)  
300k

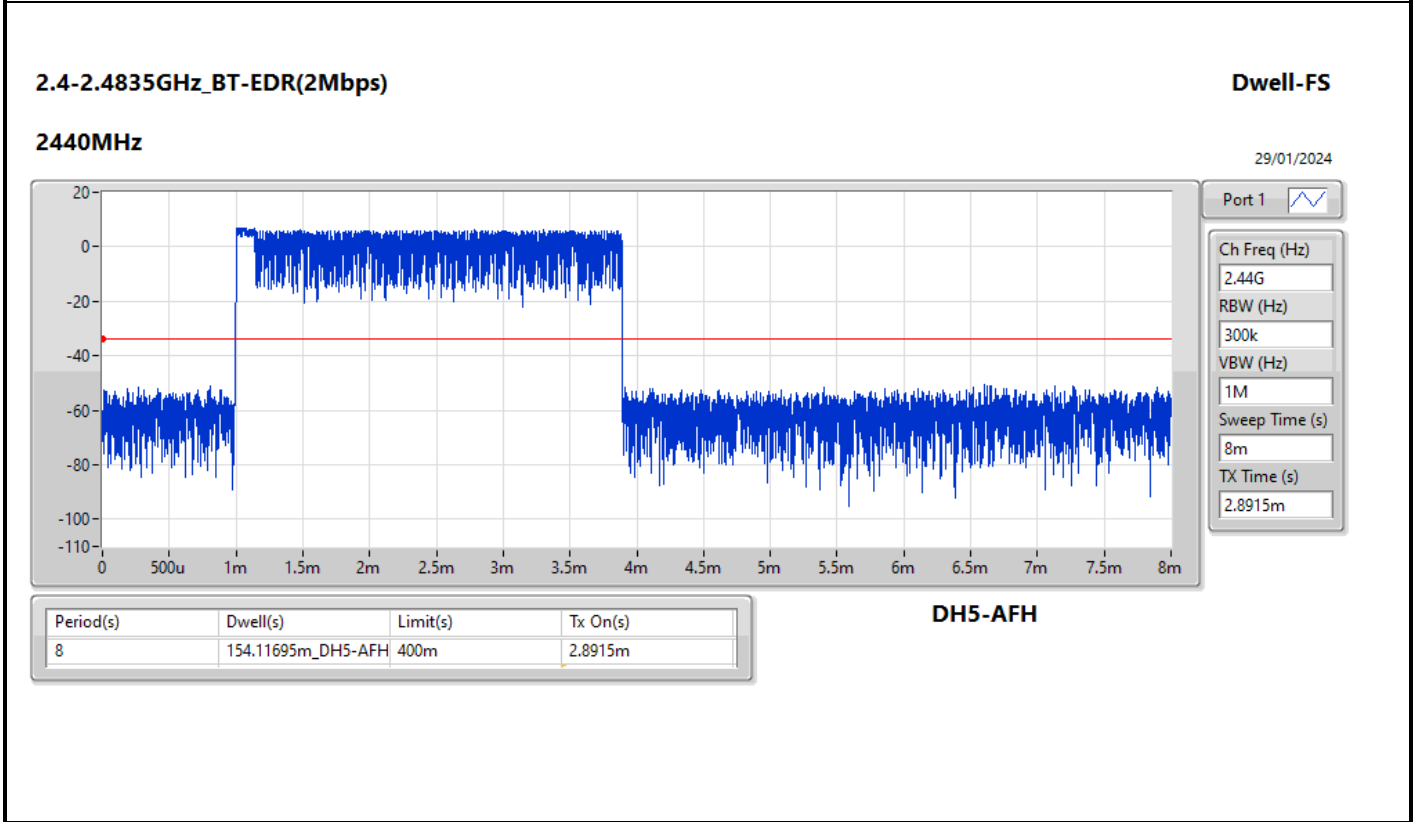
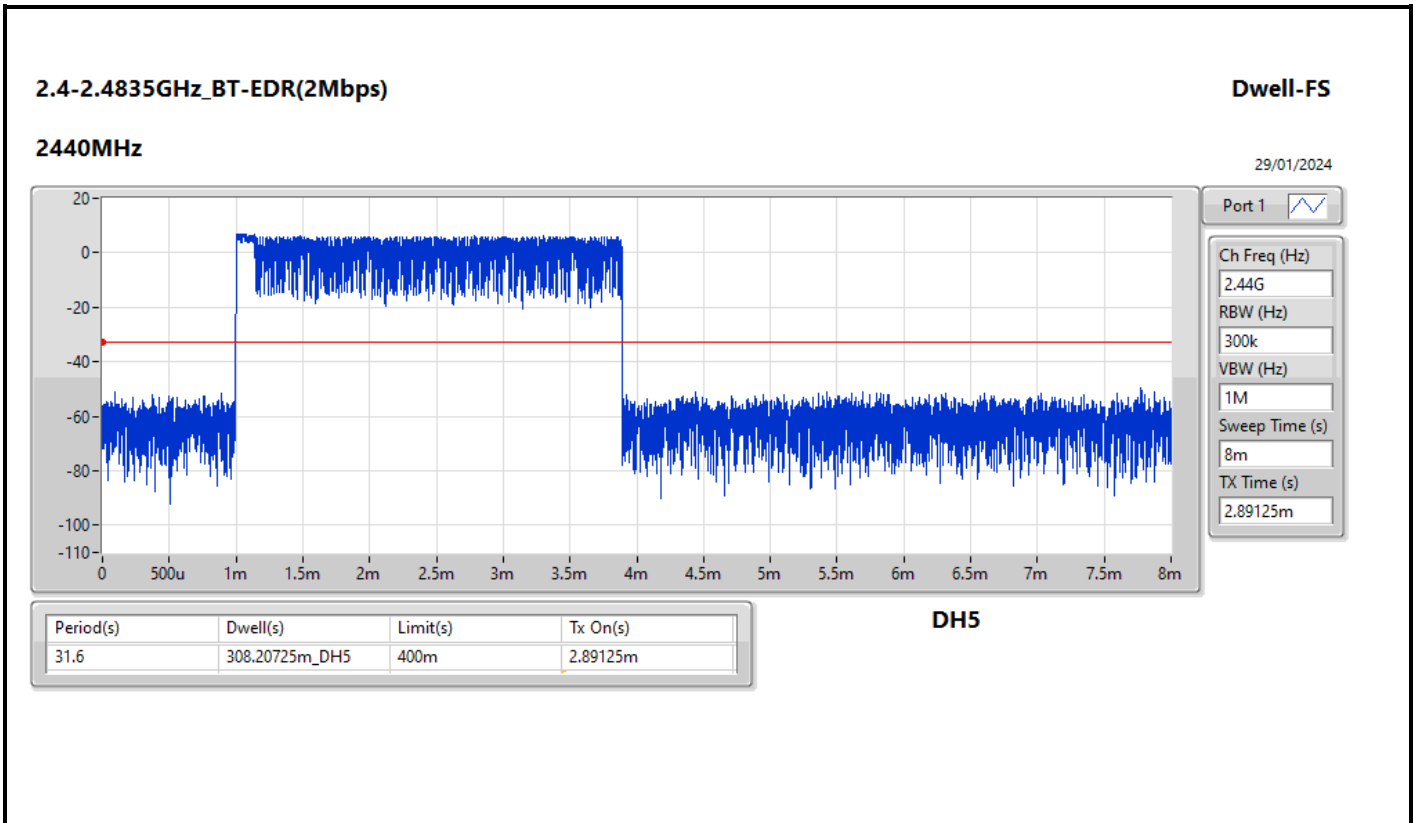
VBW (Hz)  
1M

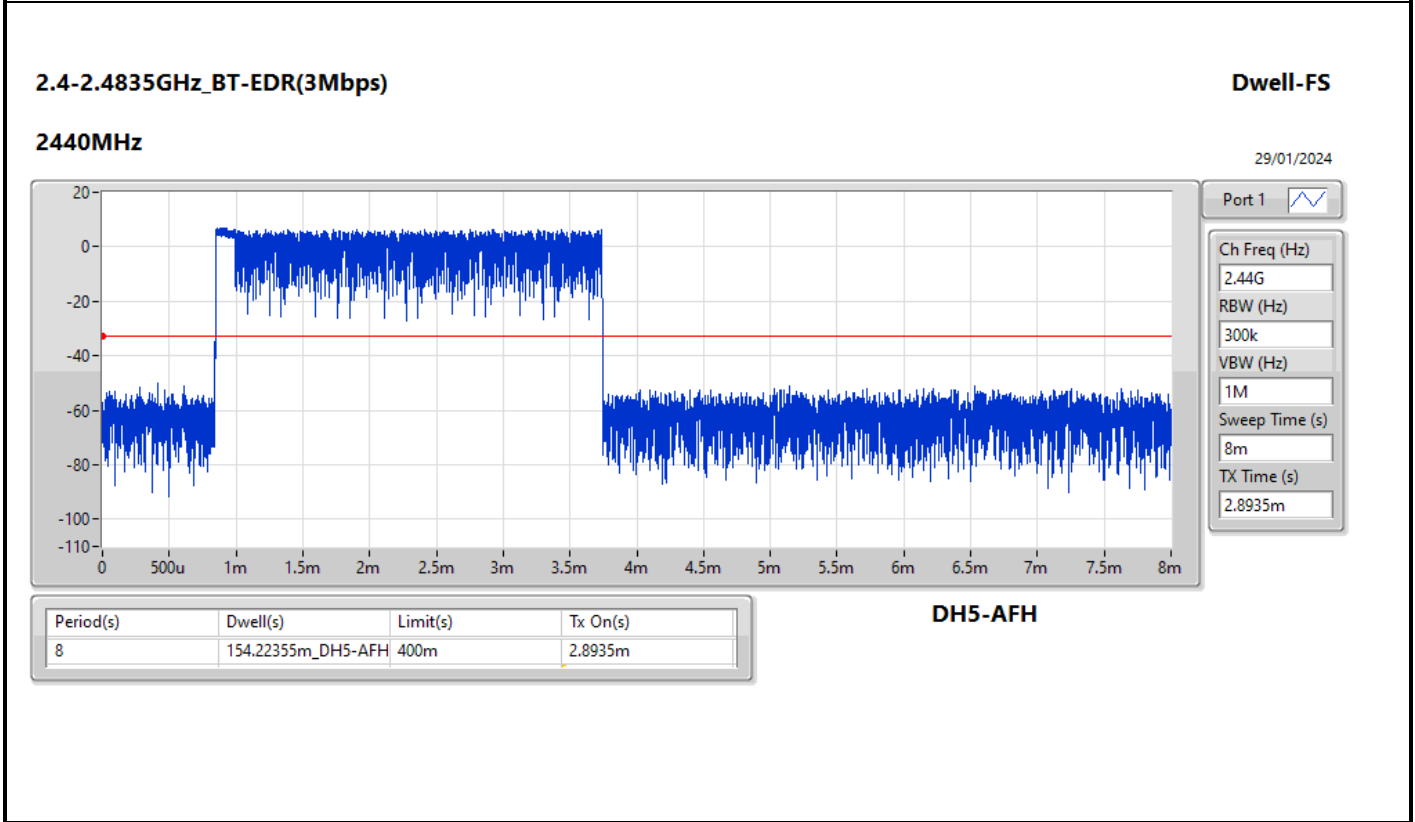
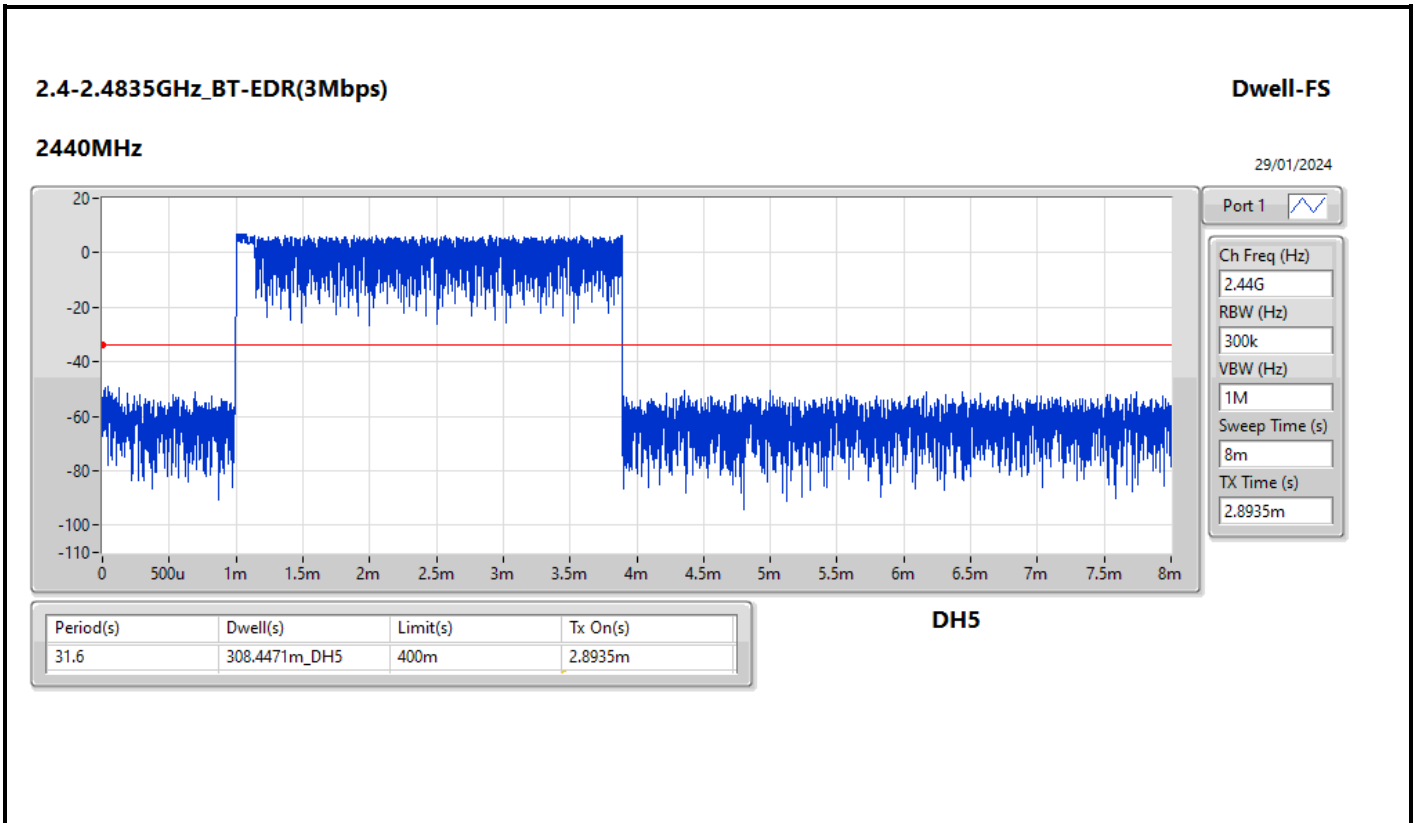
Sweep Time (s)  
8m

TX Time (s)  
2.9005m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.59665m_DH5-AFH	400m	2.9005m

DH5-AFH







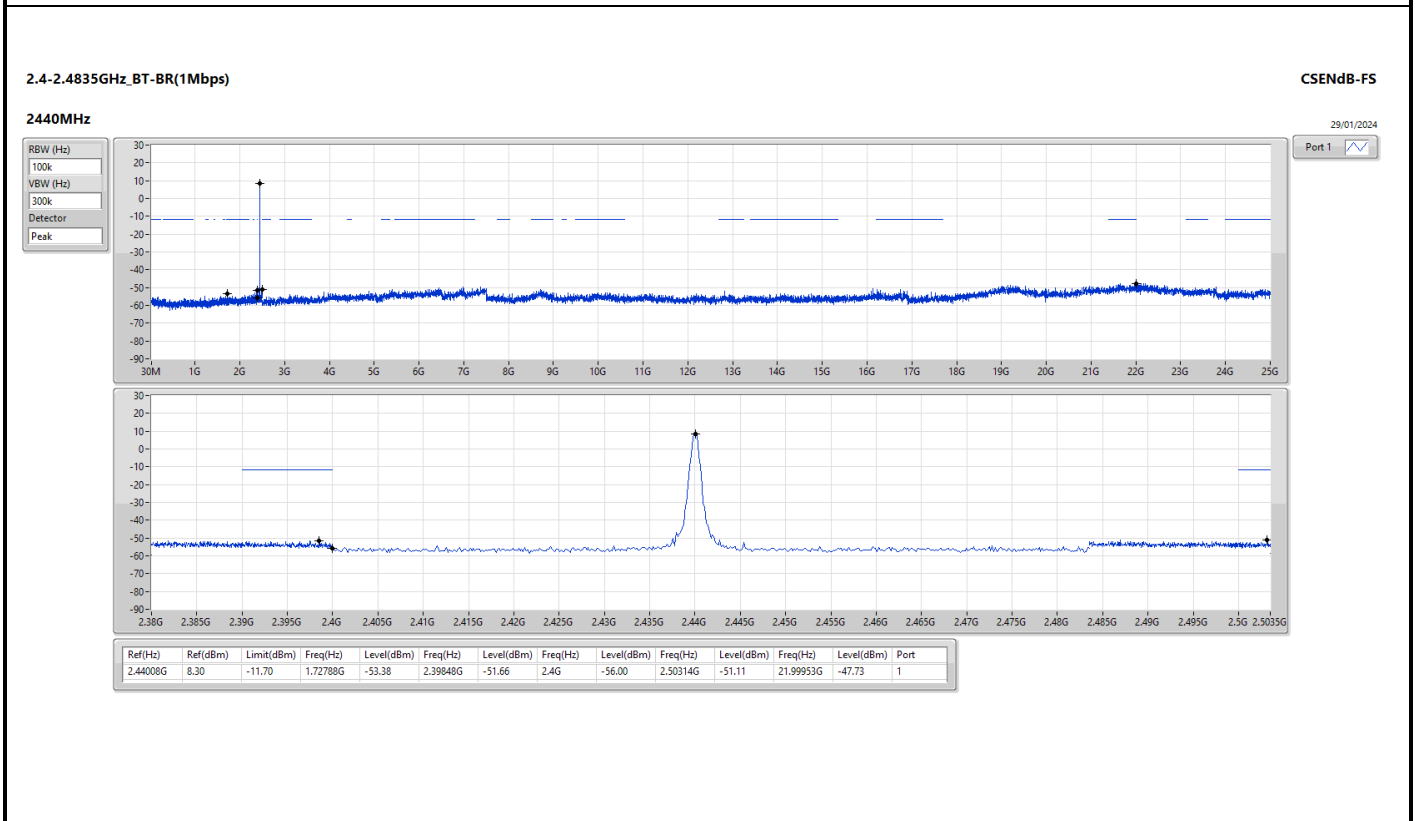
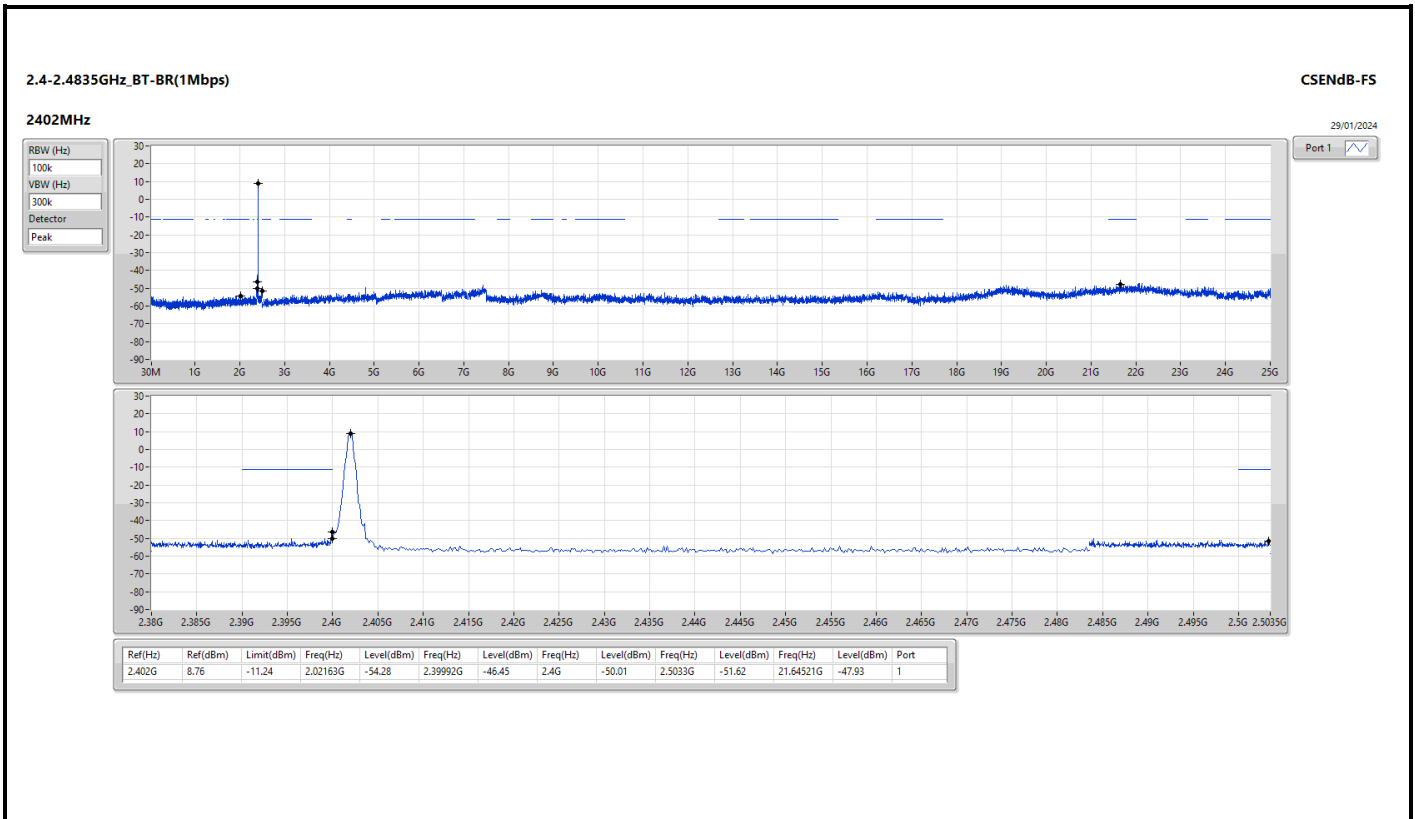
Summary

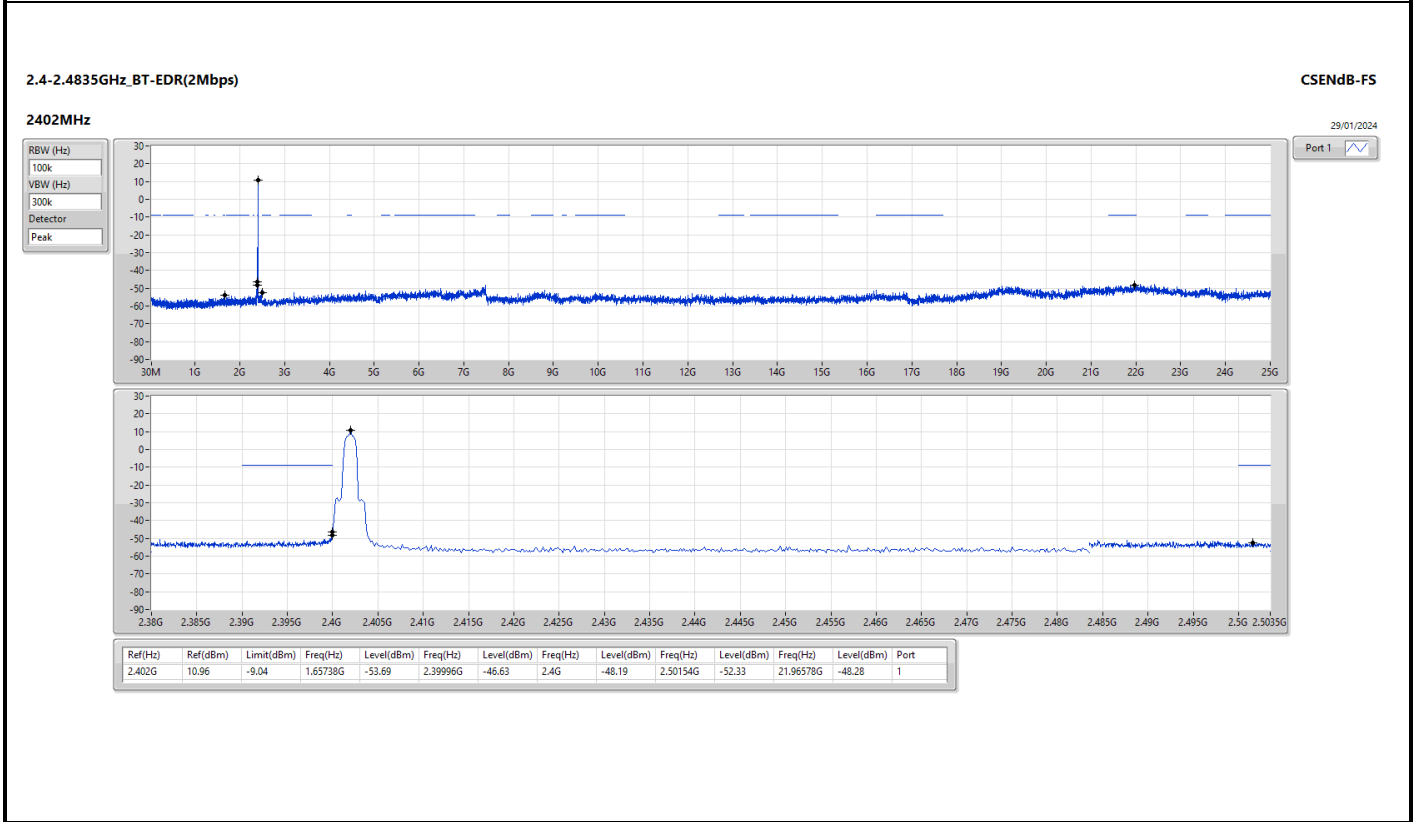
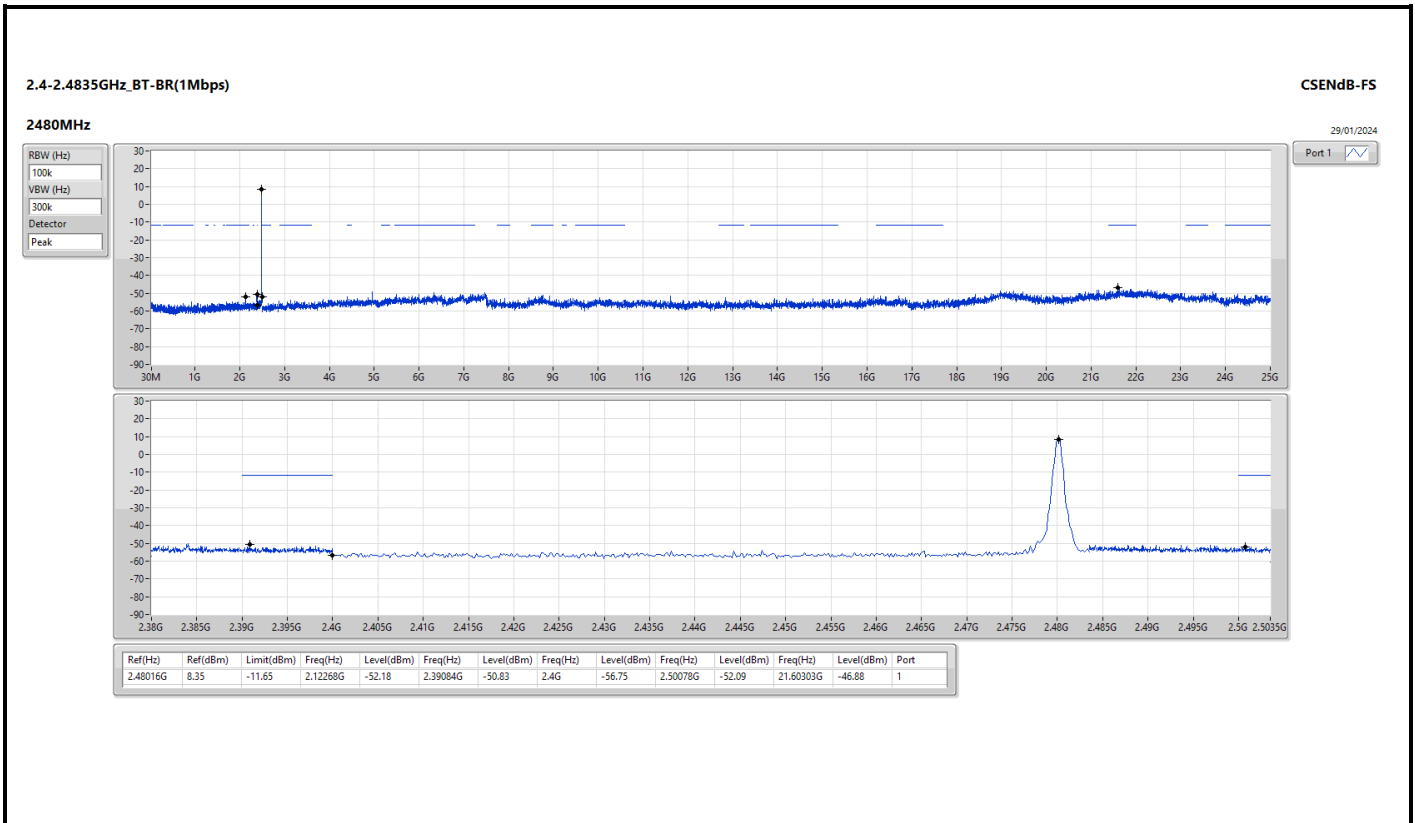
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.402G	8.76	-11.24	2.02163G	-54.28	2.39992G	-46.45	2.4G	-50.01	2.5033G	-51.62	21.64521G	-47.93	1
BT-EDR(2Mbps)	Pass	2.48033G	5.30	-14.70	2.30833G	-54.35	2.39148G	-51.91	2.4G	-56.11	2.50262G	-52.10	21.91517G	-48.05	1
BT-EDR(3Mbps)	Pass	2.48016G	4.29	-15.71	1.8348G	-54.39	2.39104G	-51.61	2.4G	-57.07	2.50214G	-52.03	21.98828G	-47.29	1

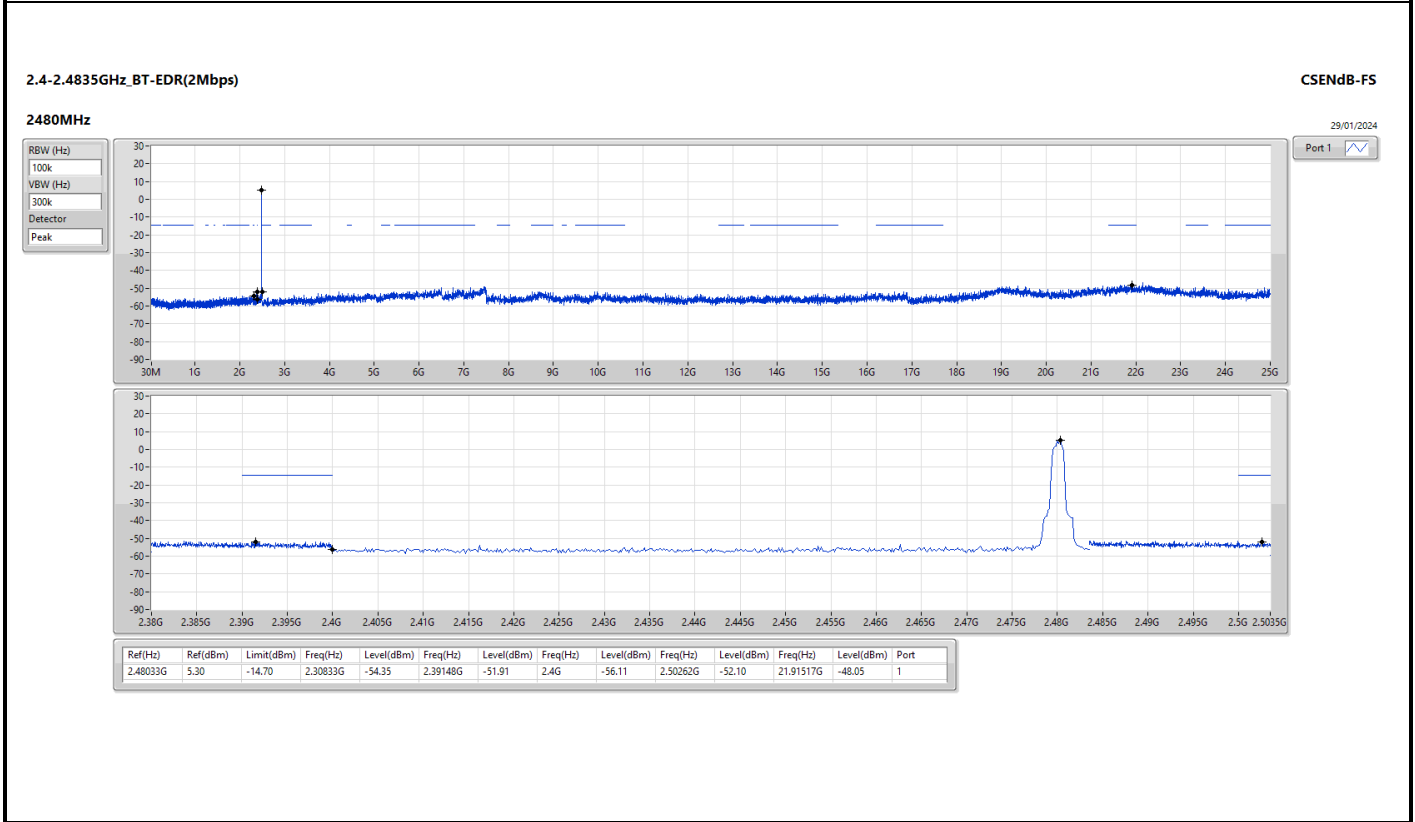
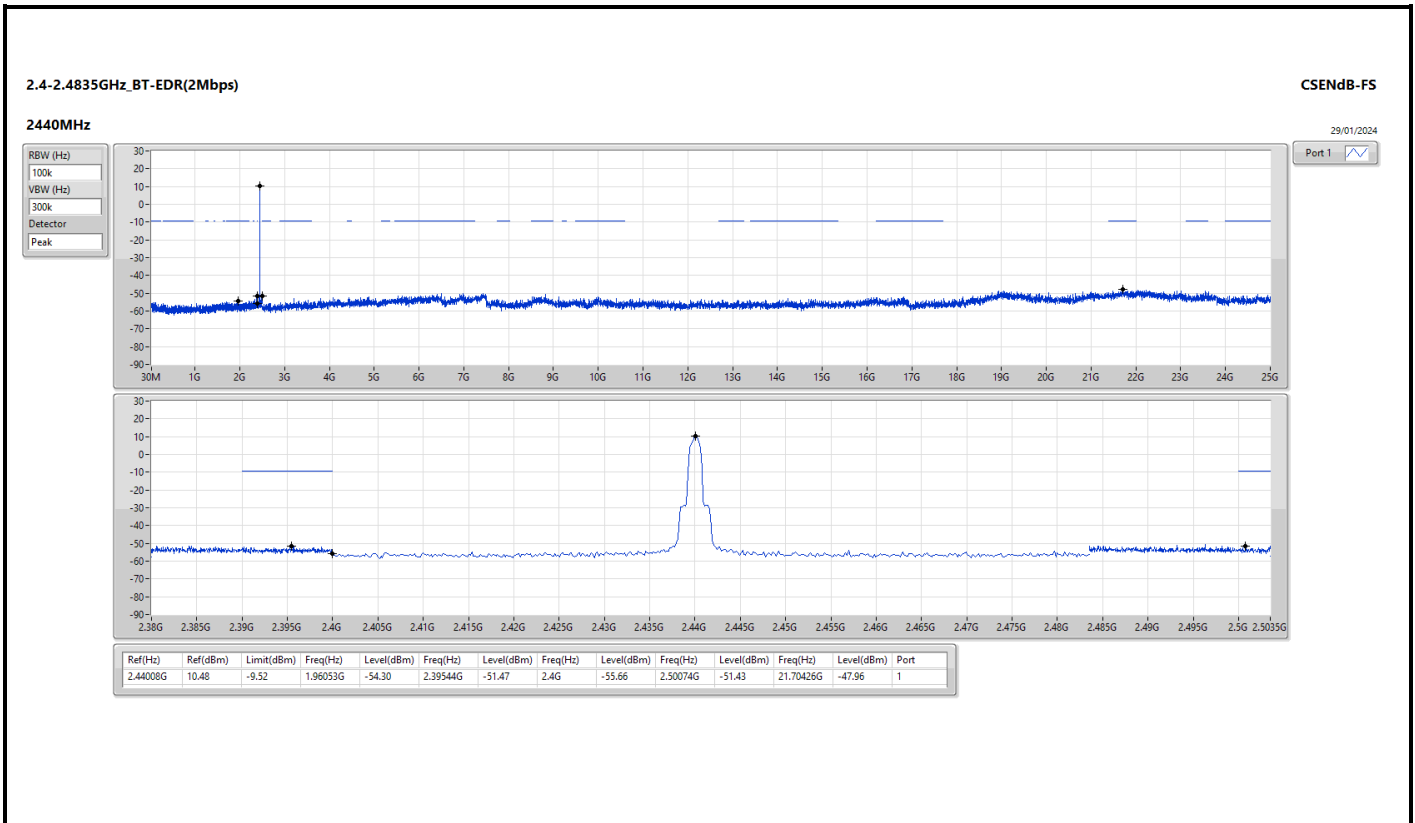
Result

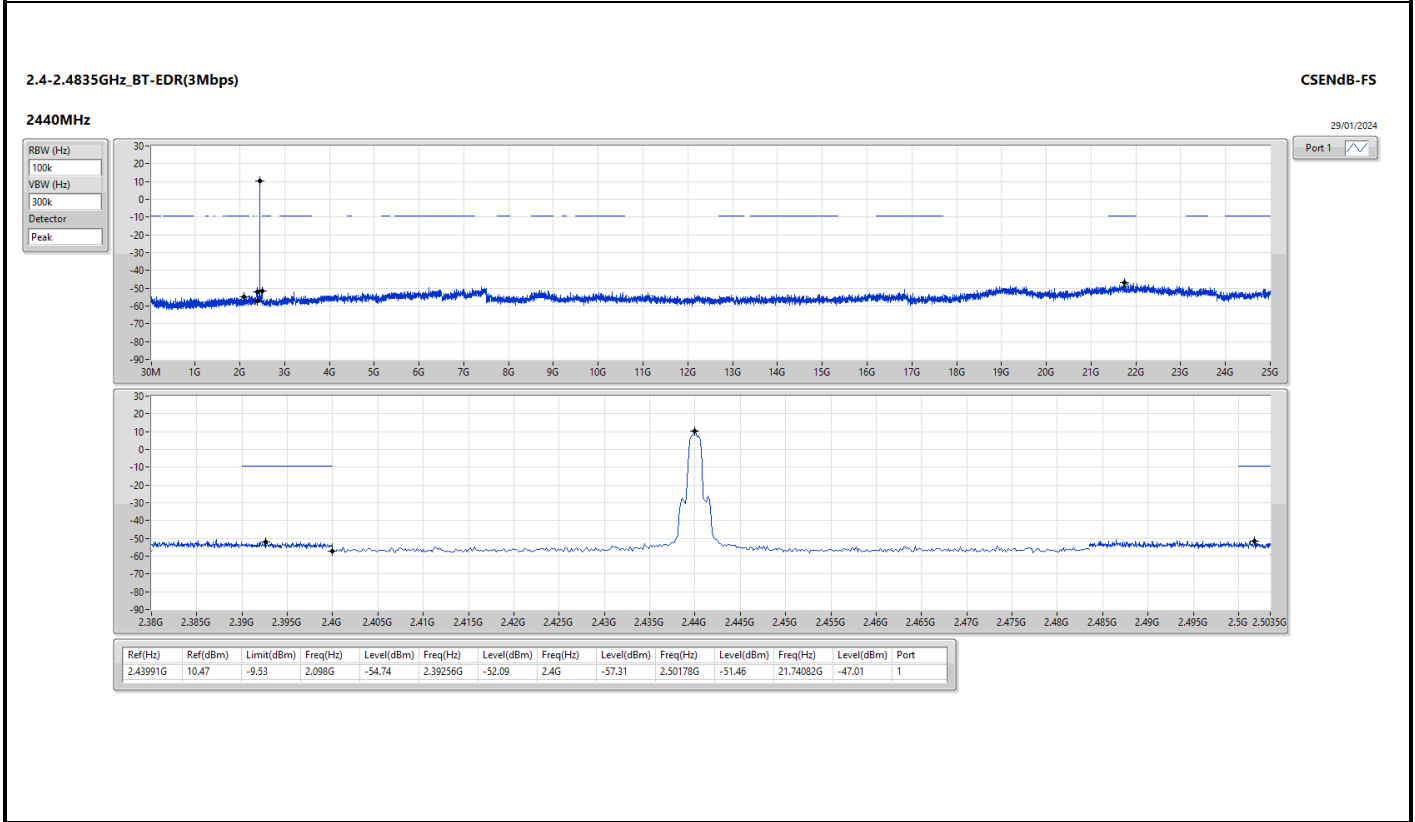
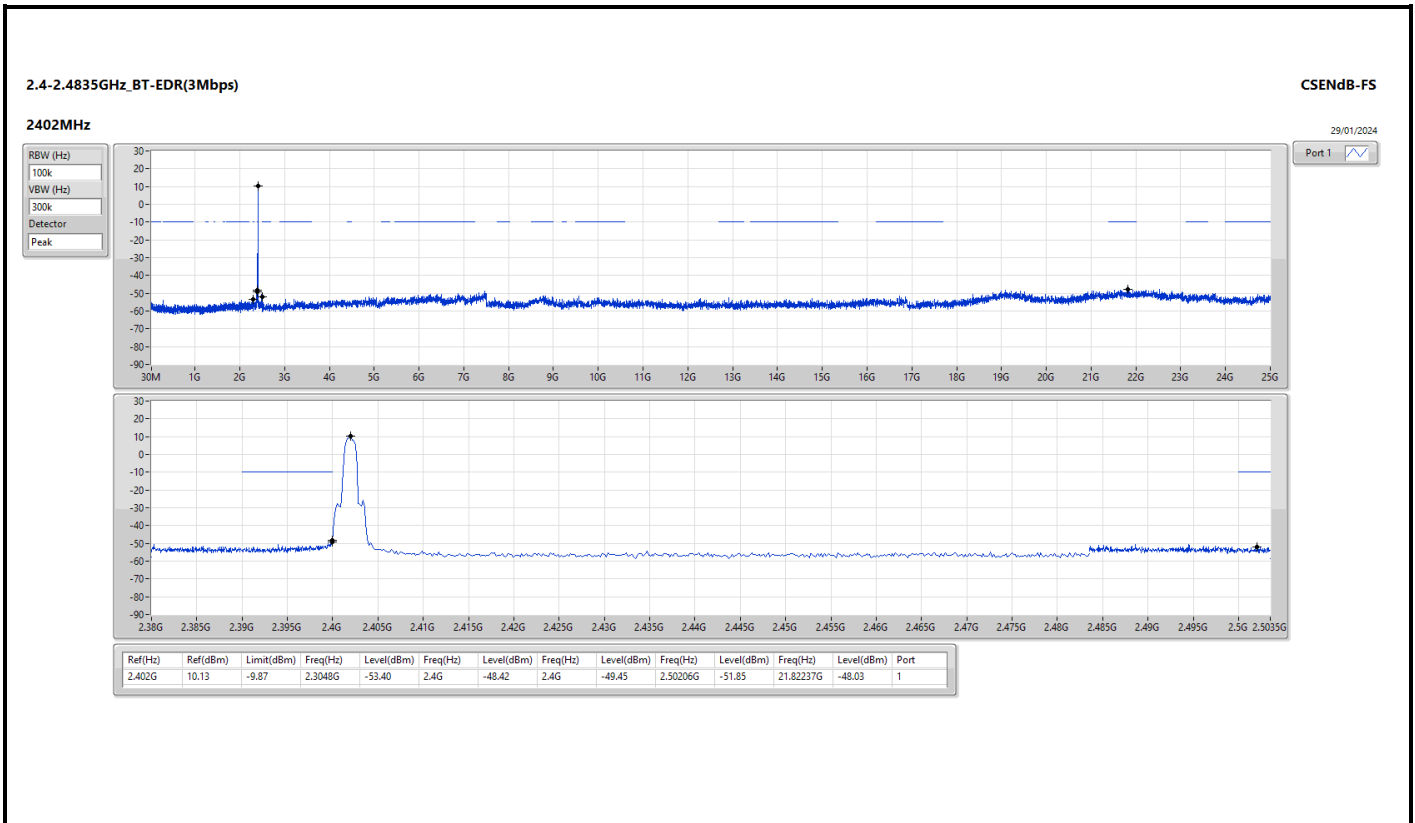
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	8.76	-11.24	2.02163G	-54.28	2.39992G	-46.45	2.4G	-50.01	2.5033G	-51.62	21.64521G	-47.93	1
2440MHz	Pass	2.44008G	8.30	-11.70	1.72788G	-53.38	2.39848G	-51.66	2.4G	-56.00	2.50314G	-51.11	21.99953G	-47.73	1
2480MHz	Pass	2.48016G	8.35	-11.65	2.12268G	-52.18	2.39084G	-50.83	2.4G	-56.75	2.50078G	-52.09	21.60303G	-46.88	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	10.96	-9.04	1.65738G	-53.69	2.39996G	-46.63	2.4G	-48.19	2.50154G	-52.33	21.96578G	-48.28	1
2440MHz	Pass	2.44008G	10.48	-9.52	1.96053G	-54.30	2.39544G	-51.47	2.4G	-55.66	2.50074G	-51.43	21.70426G	-47.96	1
2480MHz	Pass	2.48033G	5.30	-14.70	2.30833G	-54.35	2.39148G	-51.91	2.4G	-56.11	2.50262G	-52.10	21.91517G	-48.05	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	10.13	-9.87	2.3048G	-53.40	2.4G	-48.42	2.4G	-49.45	2.50206G	-51.85	21.82237G	-48.03	1
2440MHz	Pass	2.43991G	10.47	-9.53	2.098G	-54.74	2.39256G	-52.09	2.4G	-57.31	2.50178G	-51.46	21.74082G	-47.01	1
2480MHz	Pass	2.48016G	4.29	-15.71	1.8348G	-54.39	2.39104G	-51.61	2.4G	-57.07	2.50214G	-52.03	21.98828G	-47.29	1

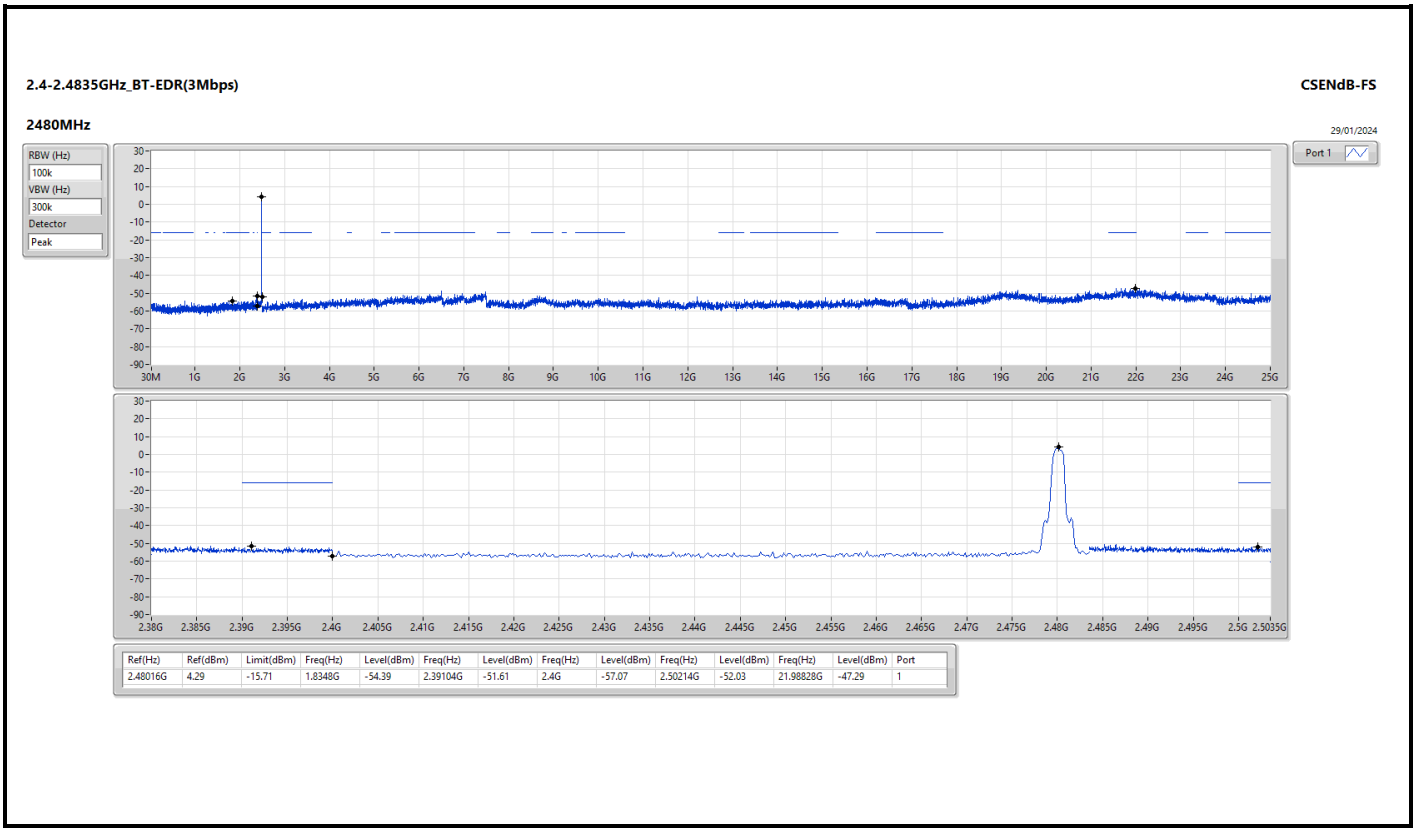










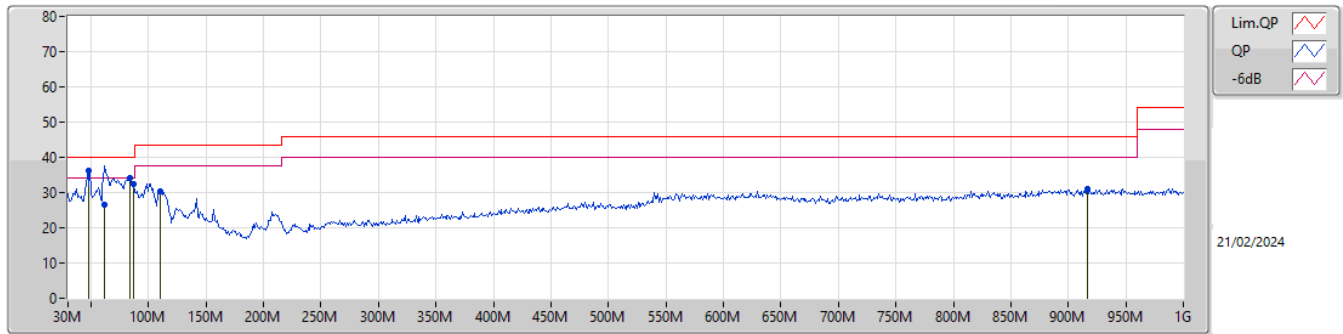




**Summary**

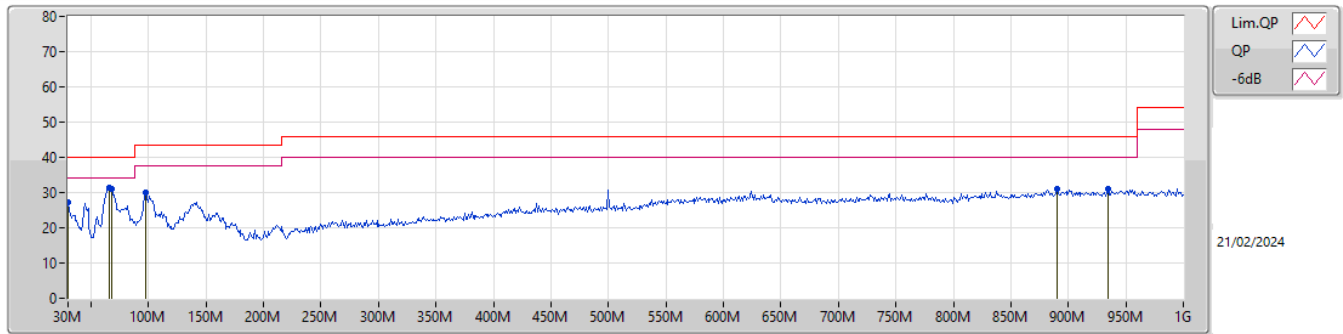
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	PK	47.46M	36.29	40.00	-3.71	Vertical

Mode 4



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	36.29	40.00	-3.71	-16.16	3	Vertical	0	3.00	-	52.45	14.86	0.50	31.52
QP	62.01M	26.70	40.00	-13.30	-18.62	3	Vertical	0	3.00	"Worst"	45.32	12.53	0.60	31.75
PK	84.32M	34.01	40.00	-5.99	-17.04	3	Vertical	228	1.25	-	51.05	13.91	0.76	31.71
PK	87.23M	32.58	40.00	-7.42	-16.29	3	Vertical	284	1.00	-	48.87	14.62	0.78	31.69
PK	110.51M	30.30	43.50	-13.20	-12.60	3	Vertical	170	1.00	-	42.90	18.11	0.88	31.59
PK	916.58M	31.03	46.00	-14.97	-2.31	3	Vertical	0	3.00	-	33.34	26.79	3.12	32.22

Mode 4



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	27.16	40.00	-12.84	-7.26	3	Horizontal	360	1.00	-	34.42	23.56	0.33	31.15
PK	65.89M	31.23	40.00	-8.77	-18.78	3	Horizontal	0	2.00	"Worst"	50.01	12.34	0.63	31.75
PK	67.83M	30.93	40.00	-9.07	-18.72	3	Horizontal	0	2.00	-	49.65	12.38	0.64	31.74
PK	97.9M	29.86	43.50	-13.64	-14.01	3	Horizontal	285	2.00	-	43.87	16.75	0.81	31.57
PK	890.39M	30.99	46.00	-15.01	-2.57	3	Horizontal	41	1.00	-	33.56	26.61	3.04	32.22
PK	935.01M	30.89	46.00	-15.11	-2.45	3	Horizontal	144	1.50	-	33.34	26.64	3.17	32.26



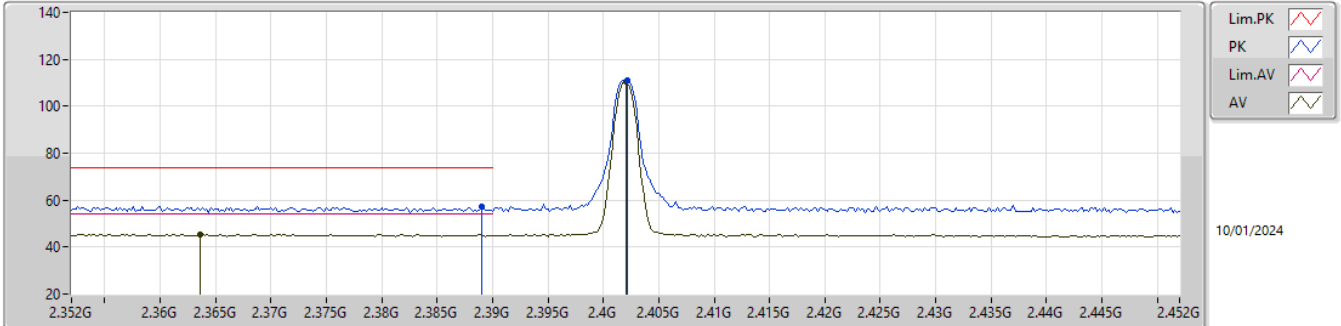


Summary

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	2.4835G	52.74	54.00	-1.26	3	Vertical	126	1.01	-

2.4-2.4835GHz\_BT-BR(1Mbps)

2402MHz\_TX

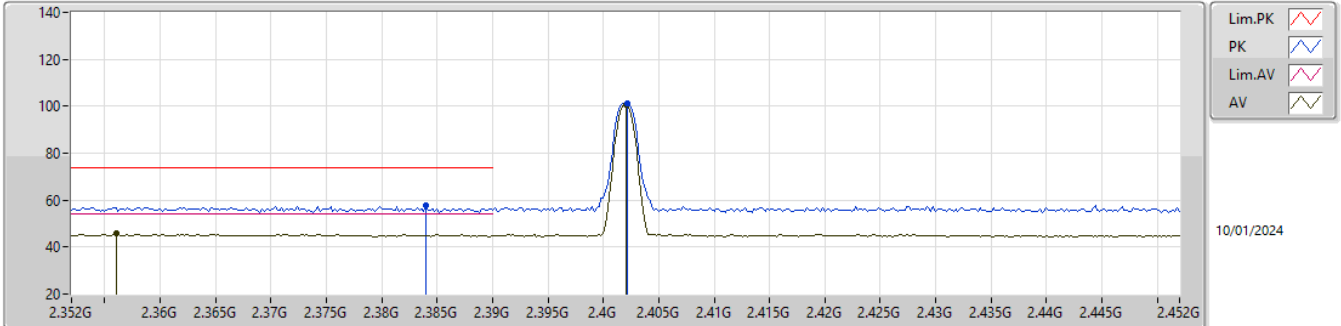


EUT\_Z\_1TX  
Setting 9  
01-U-Y-1

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	2.389G	57.41	74.00	-16.59	25.06	3	Vertical	108	1.10	-	27.70	4.65	-
AV	2.3636G	45.51	54.00	-8.49	13.03	3	Vertical	108	1.10	-	27.86	4.62	-
PK	2.4022G	111.04	Inf	-Inf	78.69	3	Vertical	108	1.10	-	27.68	4.67	-
AV	2.402G	110.50	Inf	-Inf	78.15	3	Vertical	108	1.10	-	27.68	4.67	-

2.4-2.4835GHz\_BT-BR(1Mbps)

2402MHz\_TX

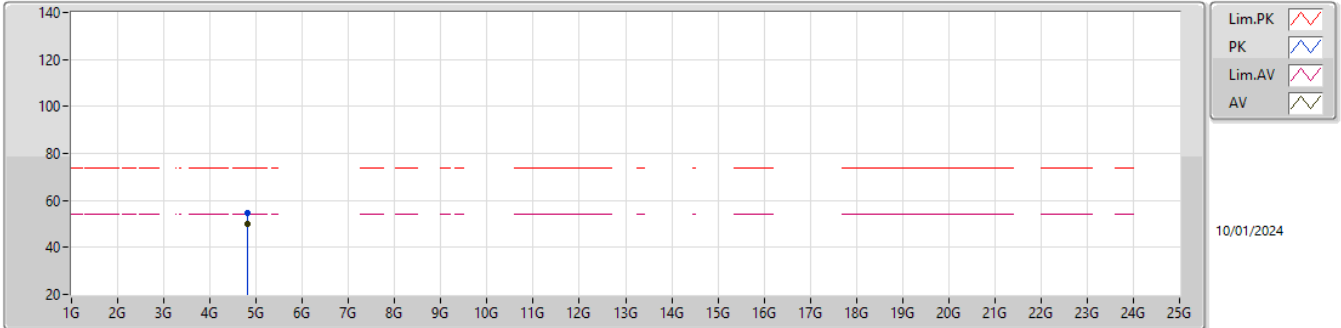


EUT\_Z\_1TX  
Setting 9  
01-U-Y-1

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	2.384G	57.67	74.00	-16.33	25.32	3	Horizontal	265	1.80	-	27.70	4.65	-
AV	2.356G	45.66	54.00	-8.34	13.11	3	Horizontal	265	1.80	-	27.94	4.61	-
PK	2.4022G	101.39	Inf	-Inf	69.04	3	Horizontal	265	1.80	-	27.68	4.67	-
AV	2.402G	100.77	Inf	-Inf	68.42	3	Horizontal	265	1.80	-	27.68	4.67	-

2.4-2.4835GHz\_BT-BR(1Mbps)

2402MHz\_TX

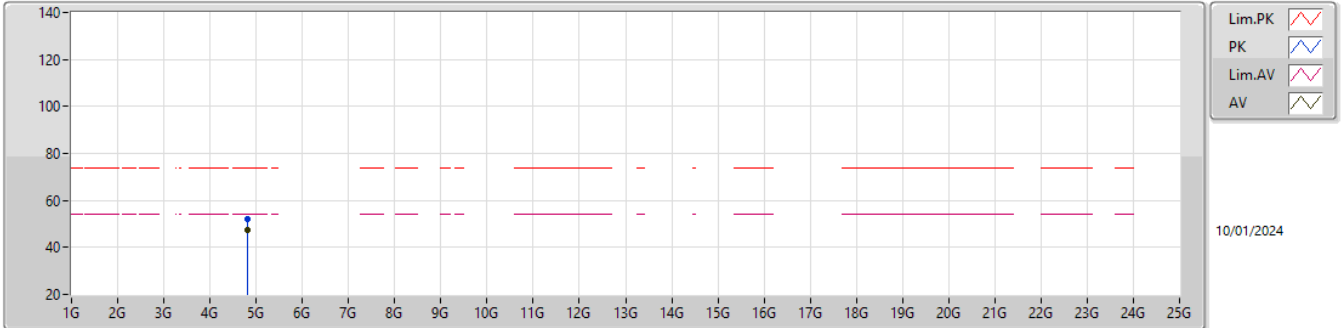


EUT\_Z\_1TX  
Setting 8  
01-U-Y-1

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	4.80415G	54.42	74.00	-19.58	49.18	3	Vertical	118	2.15	-	31.30	6.91	32.97
AV	4.80401G	50.18	54.00	-3.82	44.94	3	Vertical	118	2.15	-	31.30	6.91	32.97

2.4-2.4835GHz\_BT-BR(1Mbps)

2402MHz\_TX

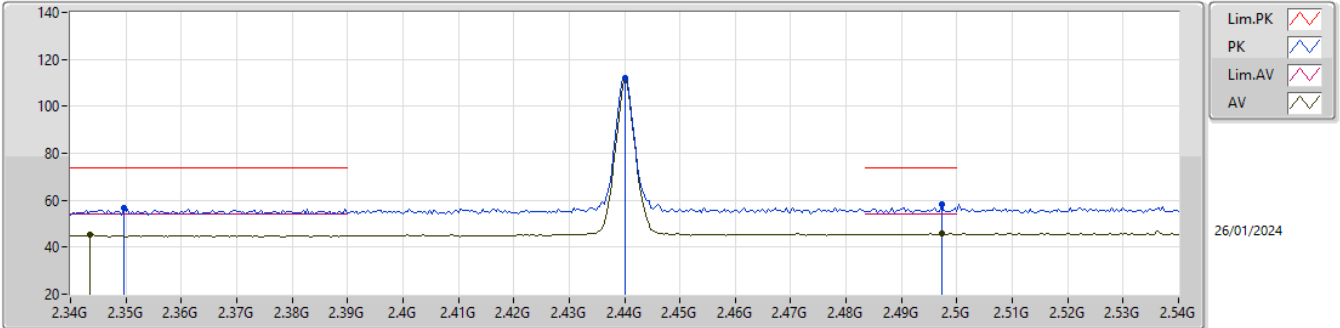


EUTZ\_1TX  
Setting 8  
01-U-Y-1

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	4.80375G	52.30	74.00	-21.70	47.06	3	Horizontal	138	1.00	-	31.30	6.91	32.97
AV	4.80403G	47.52	54.00	-6.48	42.28	3	Horizontal	138	1.00	-	31.30	6.91	32.97

2.4-2.4835GHz\_BT-BR(1Mbps)

2440MHz\_TX

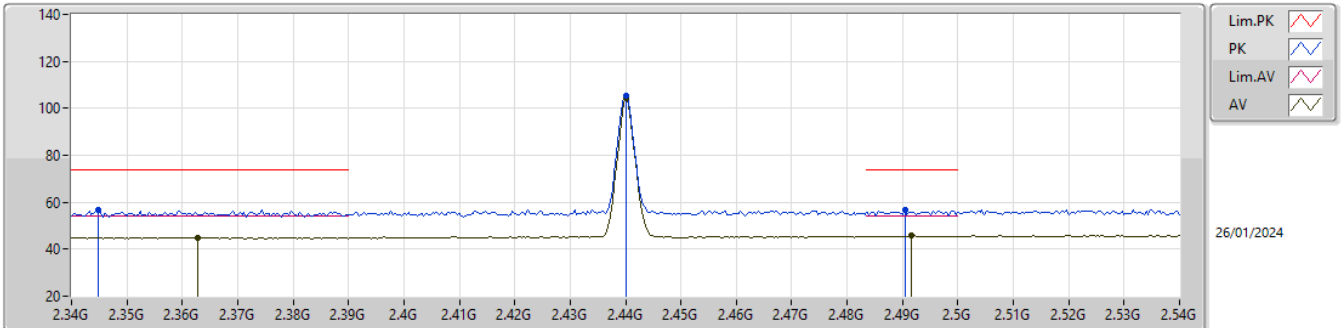


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

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	2.3496G	56.64	74.00	-17.36	24.78	3	Vertical	123	1.02	-	27.20	4.66	-
AV	2.3436G	45.46	54.00	-8.54	13.61	3	Vertical	123	1.02	-	27.20	4.65	-
PK	2.44G	112.14	Inf	-Inf	79.68	3	Vertical	123	1.02	-	27.70	4.76	-
AV	2.44G	111.40	Inf	-Inf	78.94	3	Vertical	123	1.02	-	27.70	4.76	-
PK	2.4972G	58.03	74.00	-15.97	25.30	3	Vertical	123	1.02	-	27.90	4.83	-
AV	2.4972G	45.73	54.00	-8.27	13.00	3	Vertical	123	1.02	-	27.90	4.83	-

2.4-2.4835GHz\_BT-BR(1Mbps)

2440MHz\_TX

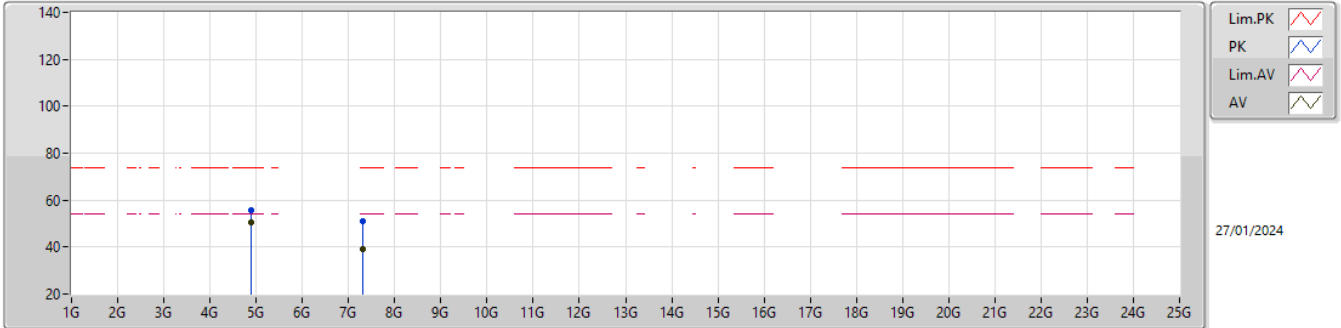


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

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	2.3448G	56.58	74.00	-17.42	24.73	3	Horizontal	260	1.68	-	27.20	4.65	-
AV	2.3628G	44.93	54.00	-9.07	12.96	3	Horizontal	260	1.68	-	27.30	4.67	-
PK	2.44G	105.25	Inf	-Inf	72.79	3	Horizontal	260	1.68	-	27.70	4.76	-
AV	2.44G	104.51	Inf	-Inf	72.05	3	Horizontal	260	1.68	-	27.70	4.76	-
PK	2.4904G	56.64	74.00	-17.36	23.92	3	Horizontal	260	1.68	-	27.90	4.82	-
AV	2.4916G	45.71	54.00	-8.29	12.99	3	Horizontal	260	1.68	-	27.90	4.82	-

2.4-2.4835GHz\_BT-BR(1Mbps)

2440MHz\_TX



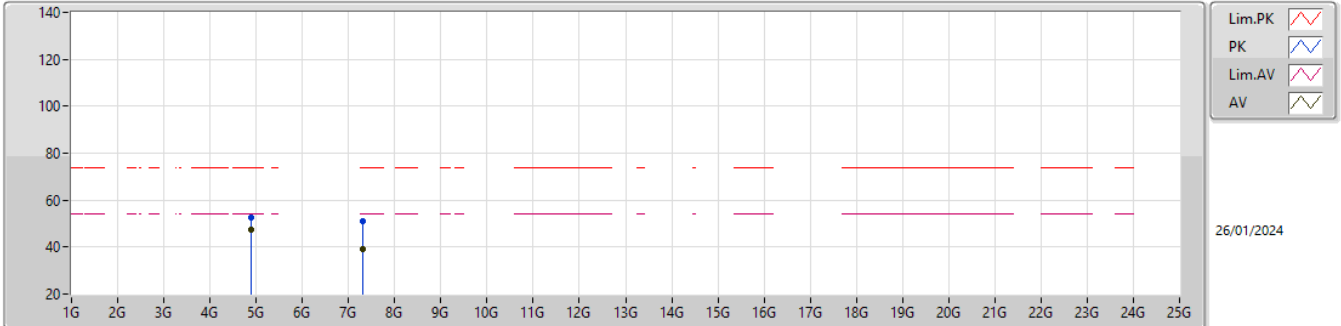
EUT\_Z\_1TX  
Setting 8  
05-C-G-4

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	4.88024G	55.51	74.00	-18.49	51.21	3	Vertical	113	2.18	-	32.70	7.19	35.59
AV	4.88G	50.65	54.00	-3.35	46.35	3	Vertical	113	2.18	-	32.70	7.19	35.59
PK	7.31524G	51.21	74.00	-22.79	40.53	3	Vertical	158	1.61	-	36.84	8.61	34.77
AV	7.312G	39.15	54.00	-14.85	28.47	3	Vertical	158	1.61	-	36.85	8.60	34.77



2.4-2.4835GHz\_BT-BR(1Mbps)

2440MHz\_TX

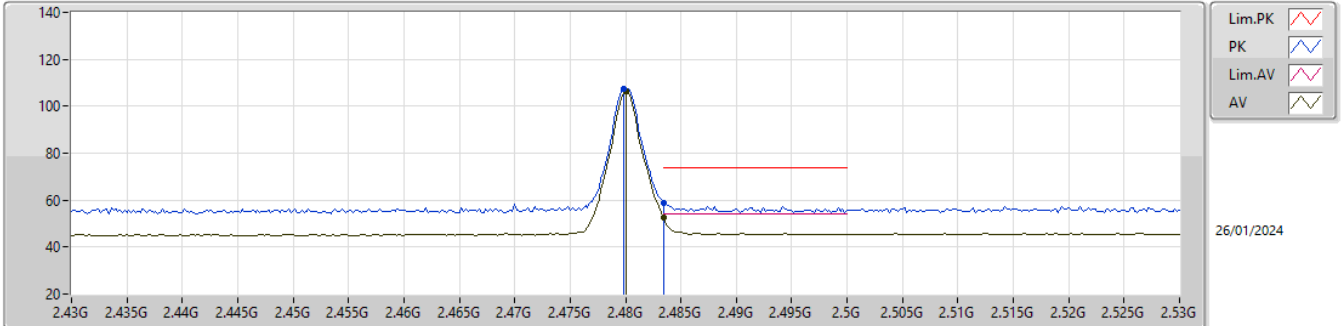


EUTZ\_1TX  
Setting 8  
05-C-G-4

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	4.88024G	52.84	74.00	-21.16	48.54	3	Horizontal	150	1.80	-	32.70	7.19	35.59
AV	4.87996G	47.24	54.00	-6.76	42.94	3	Horizontal	150	1.80	-	32.70	7.19	35.59
PK	7.31456G	51.08	74.00	-22.92	40.40	3	Horizontal	282	1.65	-	36.84	8.61	34.77
AV	7.31128G	39.14	54.00	-14.86	28.46	3	Horizontal	282	1.65	-	36.85	8.60	34.77

2.4-2.4835GHz\_BT-BR(1Mbps)

2480MHz\_TX

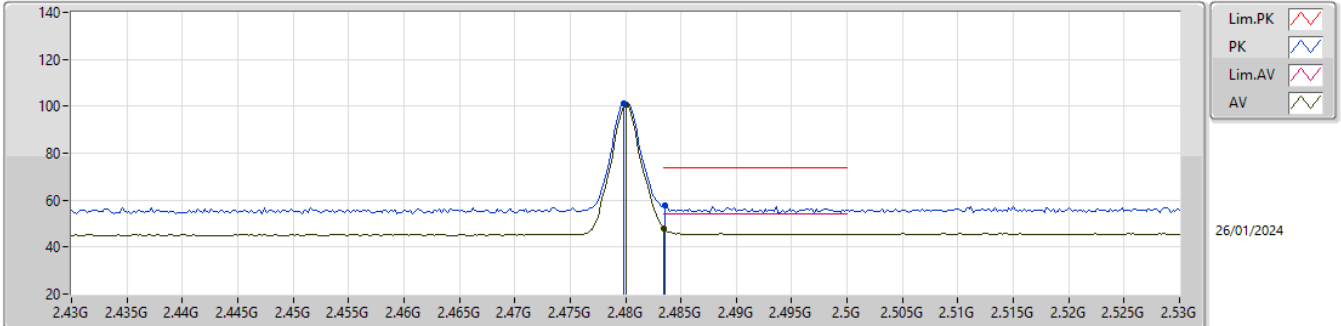


EUTZ\_1TX  
Setting 8  
05-C-G-4

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	107.31	Inf	-Inf	74.60	3	Vertical	126	1.01	-	27.90	4.81	-
AV	2.48G	106.55	Inf	-Inf	73.84	3	Vertical	126	1.01	-	27.90	4.81	-
PK	2.4835G	58.57	74.00	-15.43	25.86	3	Vertical	126	1.01	-	27.90	4.81	-
AV	2.4835G	52.74	54.00	-1.26	20.03	3	Vertical	126	1.01	-	27.90	4.81	-

2.4-2.4835GHz\_BT-BR(1Mbps)

2480MHz\_TX

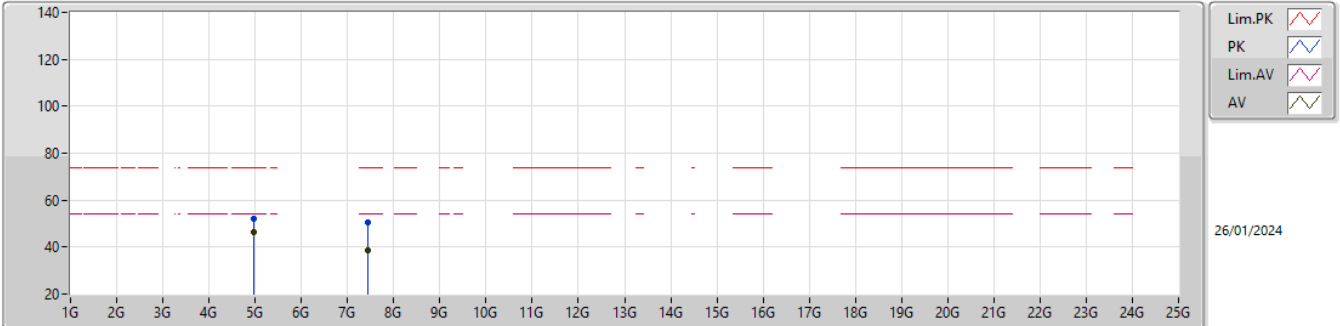


EUT\_Z\_1TX  
Setting 8  
05-C-G-4

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	101.25	Inf	-Inf	68.54	3	Horizontal	253	2.60	-	27.90	4.81	-
AV	2.48G	100.51	Inf	-Inf	67.80	3	Horizontal	253	2.60	-	27.90	4.81	-
PK	2.4836G	57.53	74.00	-16.47	24.82	3	Horizontal	253	2.60	-	27.90	4.81	-
AV	2.4835G	47.97	54.00	-6.03	15.26	3	Horizontal	253	2.60	-	27.90	4.81	-

2.4-2.4835GHz\_BT-BR(1Mbps)

2480MHz\_TX

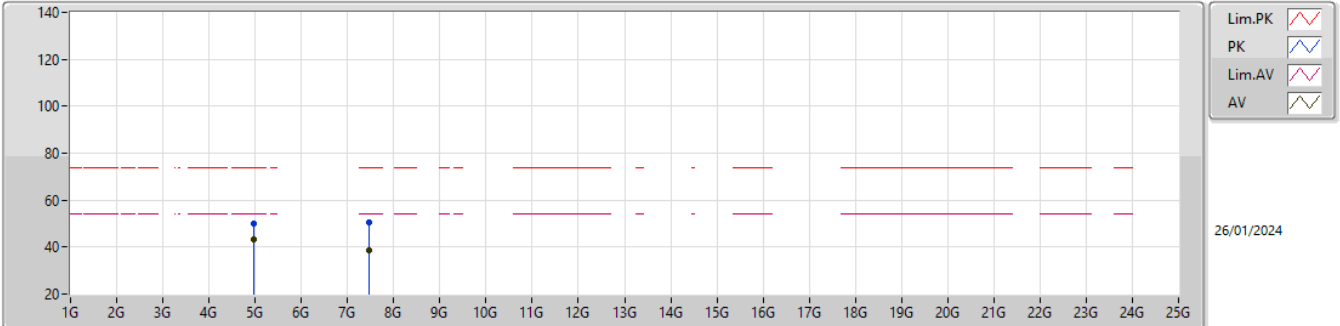


EUT\_Z\_1TX  
Setting 8  
01-U-Y-1

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	4.95986G	51.82	74.00	-22.18	46.15	3	Vertical	69	2.27	-	31.54	7.07	32.94
AV	4.95997G	46.14	54.00	-7.86	40.47	3	Vertical	69	2.27	-	31.54	7.07	32.94
PK	7.431G	50.26	74.00	-23.74	38.38	3	Vertical	314	2.28	-	36.29	8.73	33.14
AV	7.4366G	38.67	54.00	-15.33	26.76	3	Vertical	314	2.28	-	36.32	8.73	33.14

2.4-2.4835GHz\_BT-BR(1Mbps)

2480MHz\_TX

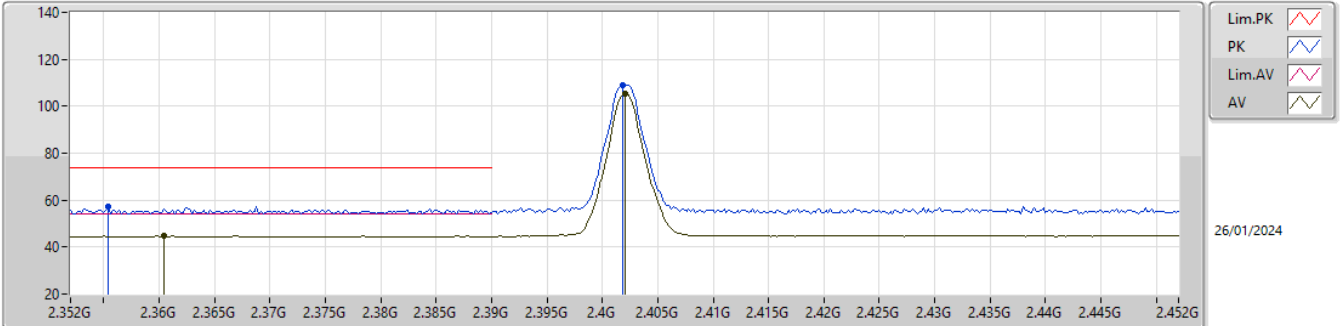


EUT\_Z\_1TX  
Setting 8  
01-U-Y-1

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	4.96033G	50.24	74.00	-23.76	44.57	3	Horizontal	142	2.12	-	31.54	7.07	32.94
AV	4.96004G	43.52	54.00	-10.48	37.85	3	Horizontal	142	2.12	-	31.54	7.07	32.94
PK	7.4724G	50.32	74.00	-23.68	38.37	3	Horizontal	82	1.48	-	36.36	8.74	33.15
AV	7.462G	38.78	54.00	-15.22	26.81	3	Horizontal	82	1.48	-	36.38	8.74	33.15

2.4-2.4835GHz\_BT-EDR(3Mbps)

2402MHz\_TX

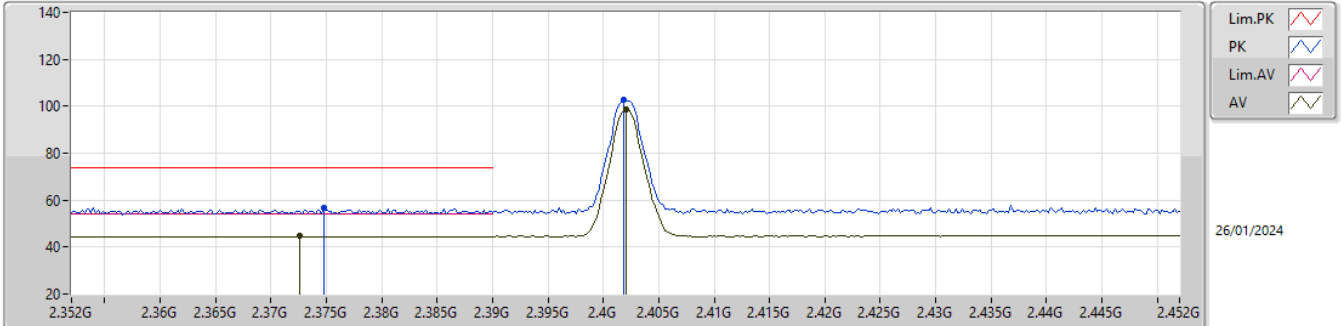


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

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	2.3554G	57.20	74.00	-16.80	25.29	3	Vertical	107	1.25	-	27.25	4.66	-
AV	2.3604G	44.69	54.00	-9.31	12.72	3	Vertical	107	1.25	-	27.30	4.67	-
PK	2.4018G	109.16	Inf	-Inf	76.95	3	Vertical	107	1.25	-	27.50	4.71	-
AV	2.402G	105.12	Inf	-Inf	72.91	3	Vertical	107	1.25	-	27.50	4.71	-

2.4-2.4835GHz\_BT-EDR(3Mbps)

2402MHz\_TX

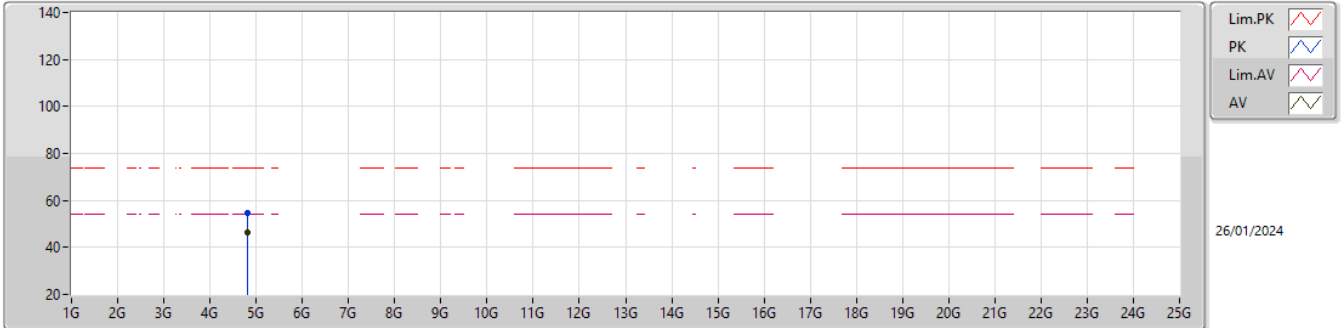


EUTZ\_1TX  
Setting 9  
05-C-G-4

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	2.3748G	56.70	74.00	-17.30	24.72	3	Horizontal	252	2.75	-	27.30	4.68	-
AV	2.3726G	44.64	54.00	-9.36	12.66	3	Horizontal	252	2.75	-	27.30	4.68	-
PK	2.4018G	102.55	Inf	-Inf	70.34	3	Horizontal	252	2.75	-	27.50	4.71	-
AV	2.402G	98.44	Inf	-Inf	66.23	3	Horizontal	252	2.75	-	27.50	4.71	-

2.4-2.4835GHz\_BT-EDR(3Mbps)

2402MHz\_TX



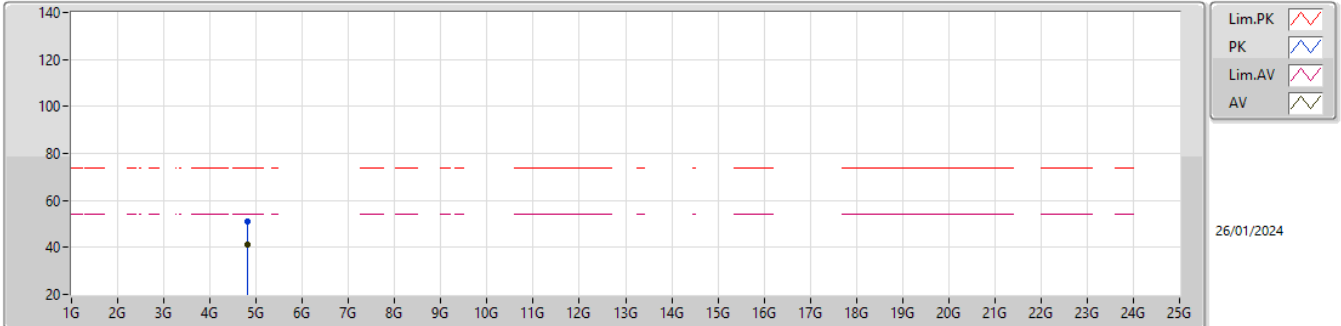
EUTZ\_1TX  
Setting 9  
05-C-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.80396G	54.81	74.00	-19.19	50.86	3	Vertical	126	2.07	-	32.42	7.14	35.61			
AV	4.804G	46.32	54.00	-7.68	42.37	3	Vertical	126	2.07	-	32.42	7.14	35.61			



2.4-2.4835GHz\_BT-EDR(3Mbps)

2402MHz\_TX

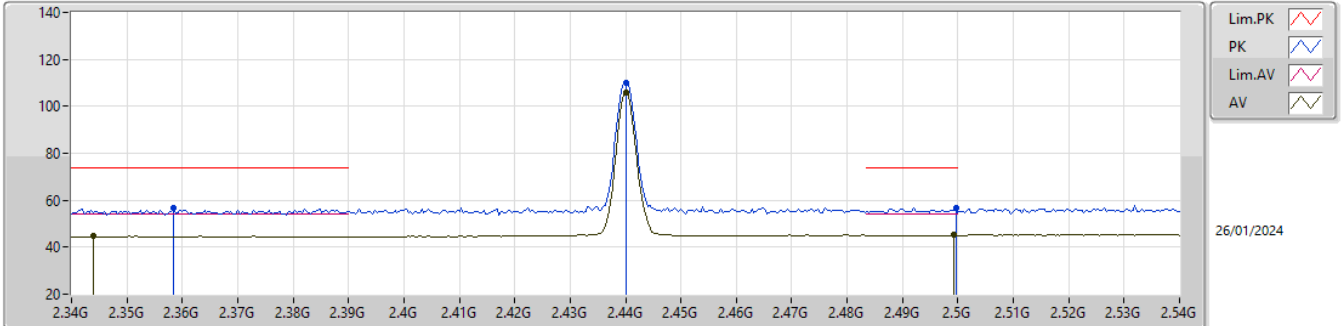


EUTZ\_1TX  
Setting 9  
05-C-G-4

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	4.80368G	51.03	74.00	-22.97	47.08	3	Horizontal	154	1.80	-	32.42	7.14	35.61
AV	4.80404G	41.05	54.00	-12.95	37.10	3	Horizontal	154	1.80	-	32.42	7.14	35.61

2.4-2.4835GHz\_BT-EDR(3Mbps)

2440MHz\_TX

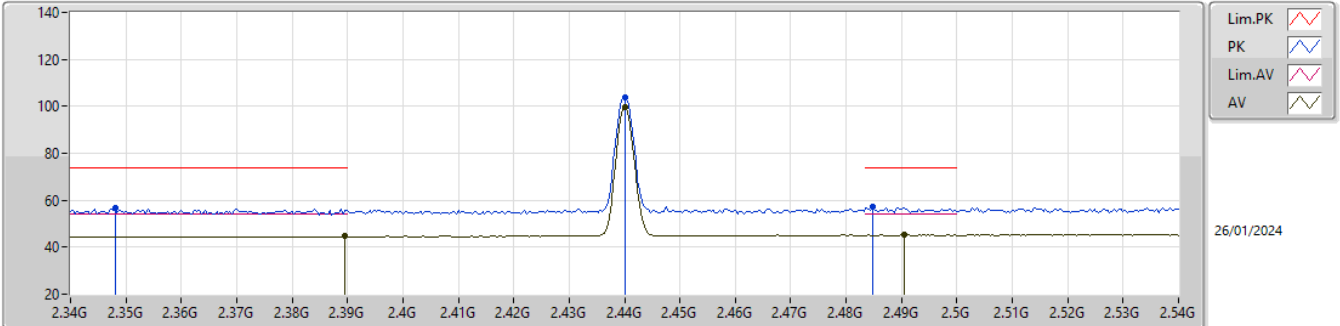


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

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	2.3584G	56.91	74.00	-17.09	24.96	3	Vertical	122	1.03	-	27.28	4.67	-
AV	2.344G	44.77	54.00	-9.23	12.92	3	Vertical	122	1.03	-	27.20	4.65	-
PK	2.44G	110.11	Inf	-Inf	77.65	3	Vertical	122	1.03	-	27.70	4.76	-
AV	2.44G	106.06	Inf	-Inf	73.60	3	Vertical	122	1.03	-	27.70	4.76	-
PK	2.4996G	56.86	74.00	-17.14	24.13	3	Vertical	122	1.03	-	27.90	4.83	-
AV	2.4992G	45.10	54.00	-8.90	12.37	3	Vertical	122	1.03	-	27.90	4.83	-

2.4-2.4835GHz\_BT-EDR(3Mbps)

2440MHz\_TX

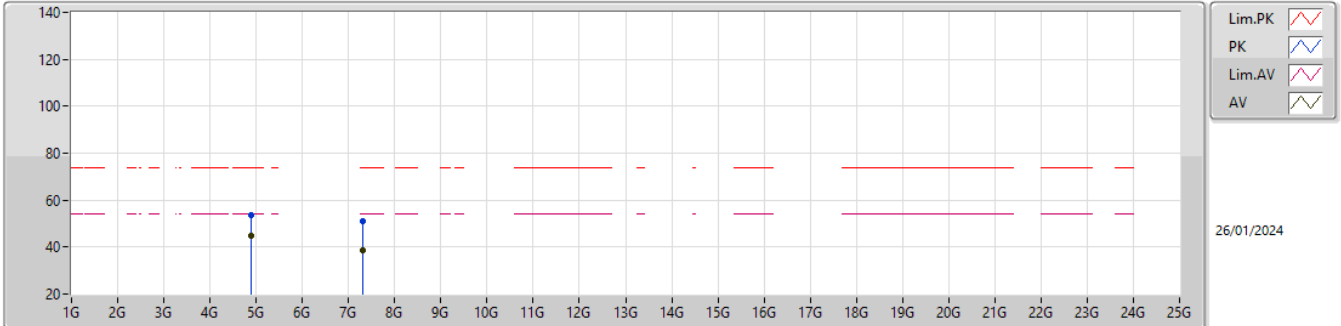


EUT\_Z\_1TX  
Setting 9  
05-C-G-4

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	2.348G	56.70	74.00	-17.30	24.84	3	Horizontal	247	2.97	-	27.20	4.66	-
AV	2.3896G	44.58	54.00	-9.42	12.48	3	Horizontal	247	2.97	-	27.40	4.70	-
PK	2.44G	103.73	Inf	-Inf	71.27	3	Horizontal	247	2.97	-	27.70	4.76	-
AV	2.44G	99.64	Inf	-Inf	67.18	3	Horizontal	247	2.97	-	27.70	4.76	-
PK	2.4848G	57.02	74.00	-16.98	24.30	3	Horizontal	247	2.97	-	27.90	4.82	-
AV	2.4904G	45.16	54.00	-8.84	12.44	3	Horizontal	247	2.97	-	27.90	4.82	-

2.4-2.4835GHz\_BT-EDR(3Mbps)

2440MHz\_TX

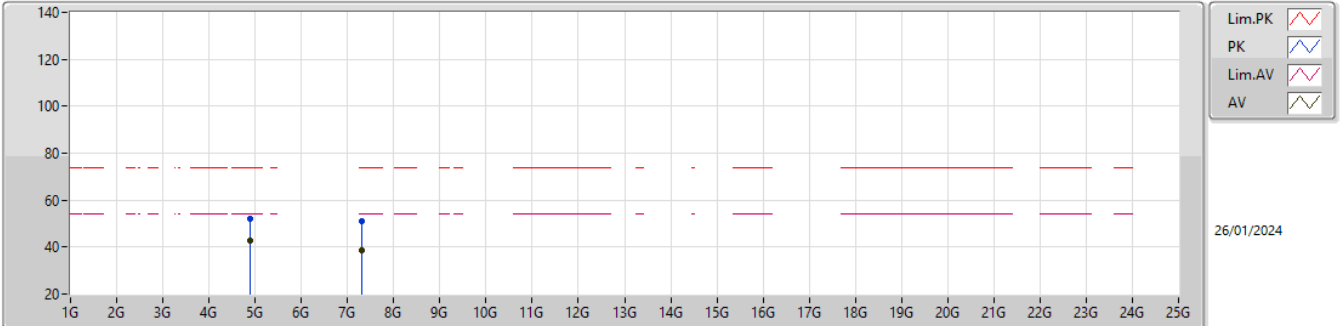


EUTZ\_1TX  
Setting 9  
05-C-G-4

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	4.88004G	53.86	74.00	-20.14	49.56	3	Vertical	122	1.80	-	32.70	7.19	35.59
AV	4.87996G	44.90	54.00	-9.10	40.60	3	Vertical	122	1.80	-	32.70	7.19	35.59
PK	7.31144G	51.25	74.00	-22.75	40.57	3	Vertical	293	1.63	-	36.85	8.60	34.77
AV	7.31168G	38.41	54.00	-15.59	27.73	3	Vertical	293	1.63	-	36.85	8.60	34.77

2.4-2.4835GHz\_BT-EDR(3Mbps)

2440MHz\_TX

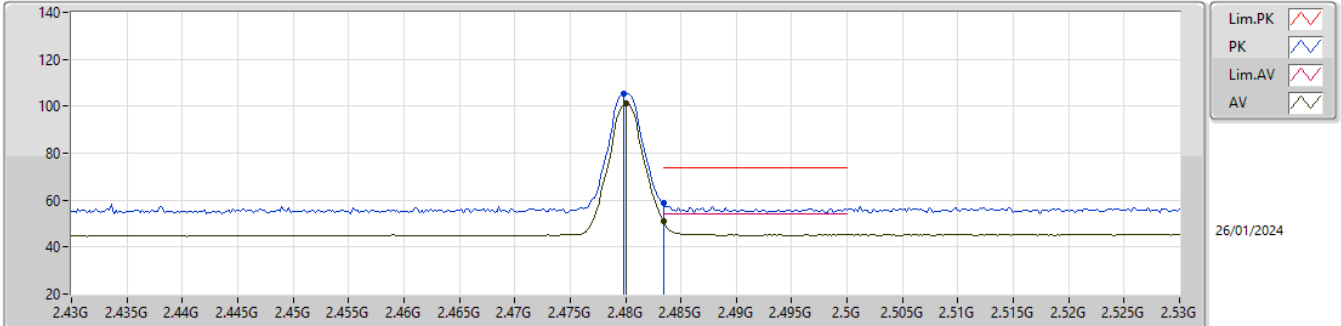


EUTZ\_1TX  
Setting 9  
05-C-G-4

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	4.88008G	52.01	74.00	-21.99	47.71	3	Horizontal	150	1.80	-	32.70	7.19	35.59
AV	4.88G	42.79	54.00	-11.21	38.49	3	Horizontal	150	1.80	-	32.70	7.19	35.59
PK	7.31032G	51.21	74.00	-22.79	40.53	3	Horizontal	344	2.58	-	36.86	8.60	34.78
AV	7.31012G	38.43	54.00	-15.57	27.75	3	Horizontal	344	2.58	-	36.86	8.60	34.78

2.4-2.4835GHz\_BT-EDR(3Mbps)

2480MHz\_TX

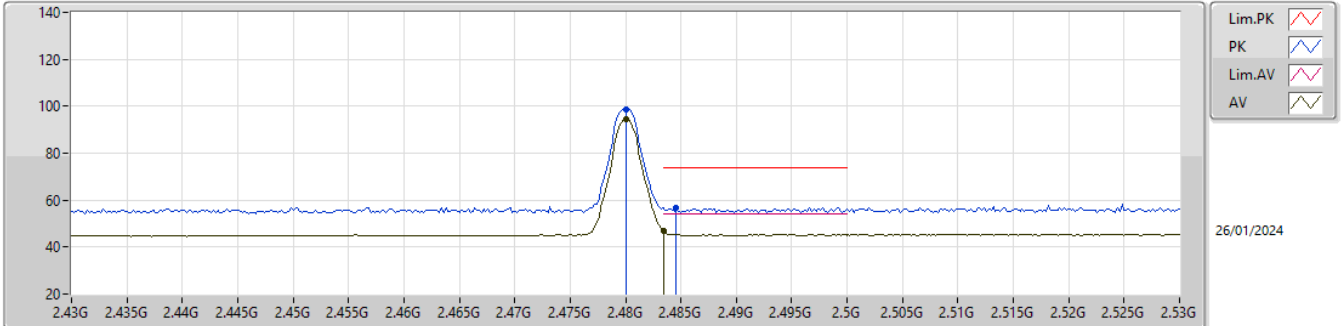


EUT\_Z\_1TX  
Setting 8  
05-C-G-4

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	105.29	Inf	-Inf	72.58	3	Vertical	123	1.00	-	27.90	4.81	-
AV	2.48G	101.07	Inf	-Inf	68.36	3	Vertical	123	1.00	-	27.90	4.81	-
PK	2.4835G	58.66	74.00	-15.34	25.95	3	Vertical	123	1.00	-	27.90	4.81	-
AV	2.4835G	50.78	54.00	-3.22	18.07	3	Vertical	123	1.00	-	27.90	4.81	-

2.4-2.4835GHz\_BT-EDR(3Mbps)

2480MHz\_TX

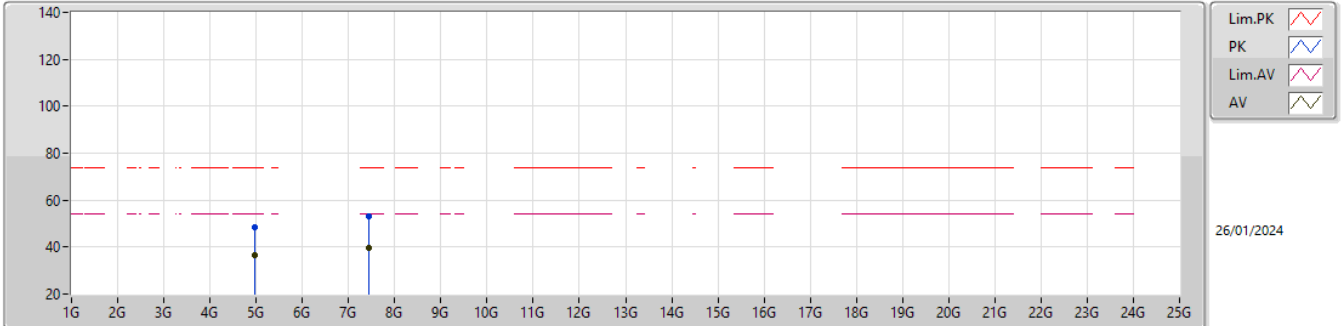


EUTZ\_1TX  
Setting 8  
05-C-G-4

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	98.78	Inf	-Inf	66.07	3	Horizontal	251	2.61	-	27.90	4.81	-
AV	2.48G	94.55	Inf	-Inf	61.84	3	Horizontal	251	2.61	-	27.90	4.81	-
PK	2.4846G	56.77	74.00	-17.23	24.05	3	Horizontal	251	2.61	-	27.90	4.82	-
AV	2.4835G	46.78	54.00	-7.22	14.07	3	Horizontal	251	2.61	-	27.90	4.81	-

2.4-2.4835GHz\_BT-EDR(3Mbps)

2480MHz\_TX



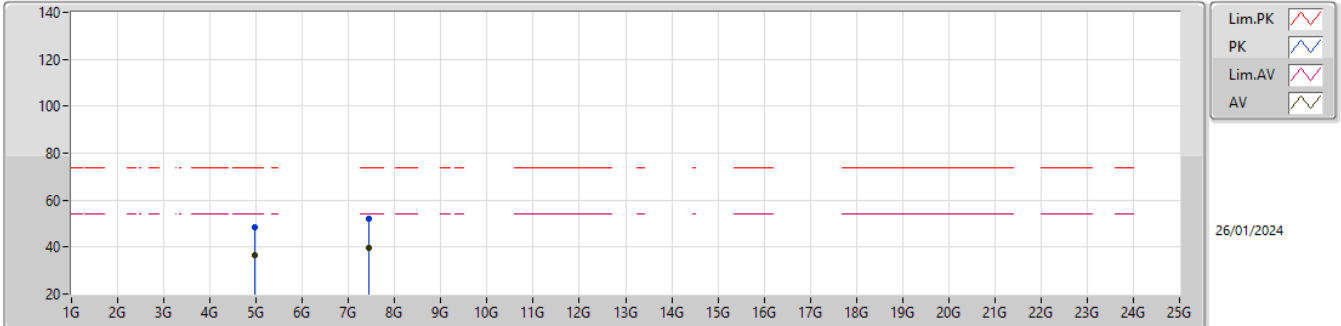
EUTZ\_1TX  
Setting 8  
05-C-G-4

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	4.95996G	48.35	74.00	-25.65	43.76	3	Vertical	55	2.20	-	32.92	7.24	35.57
AV	4.96024G	36.54	54.00	-17.46	31.95	3	Vertical	55	2.20	-	32.92	7.24	35.57
PK	7.43384G	53.21	74.00	-20.79	42.53	3	Vertical	304	1.46	-	36.53	8.70	34.55
AV	7.4458G	39.69	54.00	-14.31	28.99	3	Vertical	304	1.46	-	36.51	8.72	34.53



2.4-2.4835GHz\_BT-EDR(3Mbps)

2480MHz\_TX



EUTZ\_1TX  
Setting 8  
05-C-G-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	4.95956G	48.50	74.00	-25.50	43.91	3	Horizontal	341	2.92	-	32.92	7.24	35.57
AV	4.95988G	36.60	54.00	-17.40	32.01	3	Horizontal	341	2.92	-	32.92	7.24	35.57
PK	7.43028G	52.16	74.00	-21.84	41.48	3	Horizontal	167	2.49	-	36.54	8.70	34.56
AV	7.44504G	39.42	54.00	-14.58	28.72	3	Horizontal	167	2.49	-	36.51	8.72	34.53