



RADIO TEST REPORT

FCC ID : RAXAIOS7
Equipment : HEOS 7.0 Platform Module
Brand Name : Arcadyan
Model Name : WN9722OAX22-DM (AIOS7.0)
Applicant : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd., Hsinchu, 30071 Taiwan
Manufacturer : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd., Hsinchu, 30071 Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Feb. 02, 2023, and testing was started from Feb. 10, 2023 and completed on Mar. 08, 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
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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_5 Ver1.3



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/manufacture 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

Set	Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)			
							2.4GHz	5GHz	6GHz	Bluetooth
1	1	1	WIESON	ARY196-0383-005-00	Dipole Antenna	I-PEX	-	-	-	2.1
	2	1	WIESON	ARY196-0383-006-00	Dipole Antenna	I-PEX	2.2	2.7	2.8	-
	3	2	WIESON	ARY196-0383-007-00	Dipole Antenna	I-PEX	1.7	1.6	1.7	-
2	1	1	WIESON	ARY196-0383-008-00	Dipole Antenna	I-PEX	-	-	-	1.7
	2	1	WIESON	ARY196-0383-009-00	Dipole Antenna	I-PEX	2.0	2.2	2.3	-
	3	2	WIESON	ARY196-0383-010-00	Dipole Antenna	I-PEX	1.1	1.0	0.9	-

Note1: The above information was declared by manufacturer.

Note2: The EUT has two sets of antennas and there are three antennas for each set.

Set 1~2 are the same type antenna. Only the highest gain Set 1 antenna was selected to test and record in this report.

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 $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

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

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

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

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

Where ;

$$2.4G \quad G1 = 2.2 \text{ dBi} ; G2 = 1.7 \text{ dBi} ; DG = 4.96 \text{ dBi}$$

$$5G \quad G1 = 2.7 \text{ dBi} ; G2 = 1.6 \text{ dBi} ; DG = 5.18 \text{ dBi}$$

$$6G \quad G1 = 2.8 \text{ dBi} ; G2 = 1.7 \text{ dBi} ; DG = 5.28 \text{ dBi}$$

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 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.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-BR(1Mbps)	0.576	2.4	2.88m	1k
BT-EDR(2Mbps)	0.577	2.39	2.885m	1k
BT-EDR(3Mbps)	0.578	2.38	2.888m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	Form host system
Test Software Version	DOS [ver 6.1.7601]

Note: 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 ISCED.				

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Mason Chan	21.7~23.4 / 60~63	Feb. 17, 2023~ Feb. 21, 2023
Radiated (Below 1GHz)	03CH05-CB	Chris Li	20.2~21.3 / 56~57	Mar. 04, 2023
Radiated (Above 1GHz)	03CH02-CB	Stim Sung	20-21 / 55-58	Feb. 10, 2023~ Feb. 17, 2023
AC Conduction	CO01-CB	Dean Chang	22~23 / 50~51	Mar. 08, 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)	3.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 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%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	7
2440MHz	7
2480MHz	6
BT-EDR(2Mbps)	-
2402MHz	7
2440MHz	7
2480MHz	6
BT-EDR(3Mbps)	-
2402MHz	7
2440MHz	7
2480MHz	7

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT with antenna set 1 + 2.4GHz + Bluetooth
2	EUT with antenna set 1 + 5GHz + Bluetooth
3	EUT with antenna set 1 + 6GHz + Bluetooth
For operating mode 2 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	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
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
After evaluating, the worst case was found at Y axis, thus the measurement will follow this same test configuration.	
1	EUT at Y axis with antenna set 1 + 2.4GHz + Bluetooth
2	EUT at Y axis with antenna set 1 + 5GHz + Bluetooth
3	EUT at Y axis with antenna set 1 + 6GHz + Bluetooth
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
After evaluating, the worst case was found at Y axis for bandedge and X axis for harmonic. Thus the measurement will follow this same test configuration.	
1	EUT with antenna set 1 + Bluetooth (Bandedge in Y axis) / (Harmonic in X axis)



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + Bluetooth
2	WLAN 5GHz + Bluetooth
3	WLAN 6GHz + Bluetooth
Refer to Sporton Test Report No.: FA320110 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

N/A



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Test Fixture	Arcadyan	N0IDM9922001J	N/A
B	LAN NB	DELL	E6430	N/A
C	BT Test Set	Anritsu	MT8852B	N/A
D	WLAN AP	TP-Link	Archer AX10	N/A
E	WLAN NB	DELL	E6430	N/A
F	Test Fixture	MASIMO HEOS	AIOS7 LPP	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Test Fixture	Arcadyan	N0IDM9922001J	N/A
B	NB	Lenovo	L440	N/A
C	BT Test Set	Anritsu	MT8852B	N/A
D	WLAN AP	LINKSYS	DIVO	N/A
E	NB	DELL	E4300	N/A
F	Test Fixture	MASIMO HEOS	AIOS7 LPP	N/A

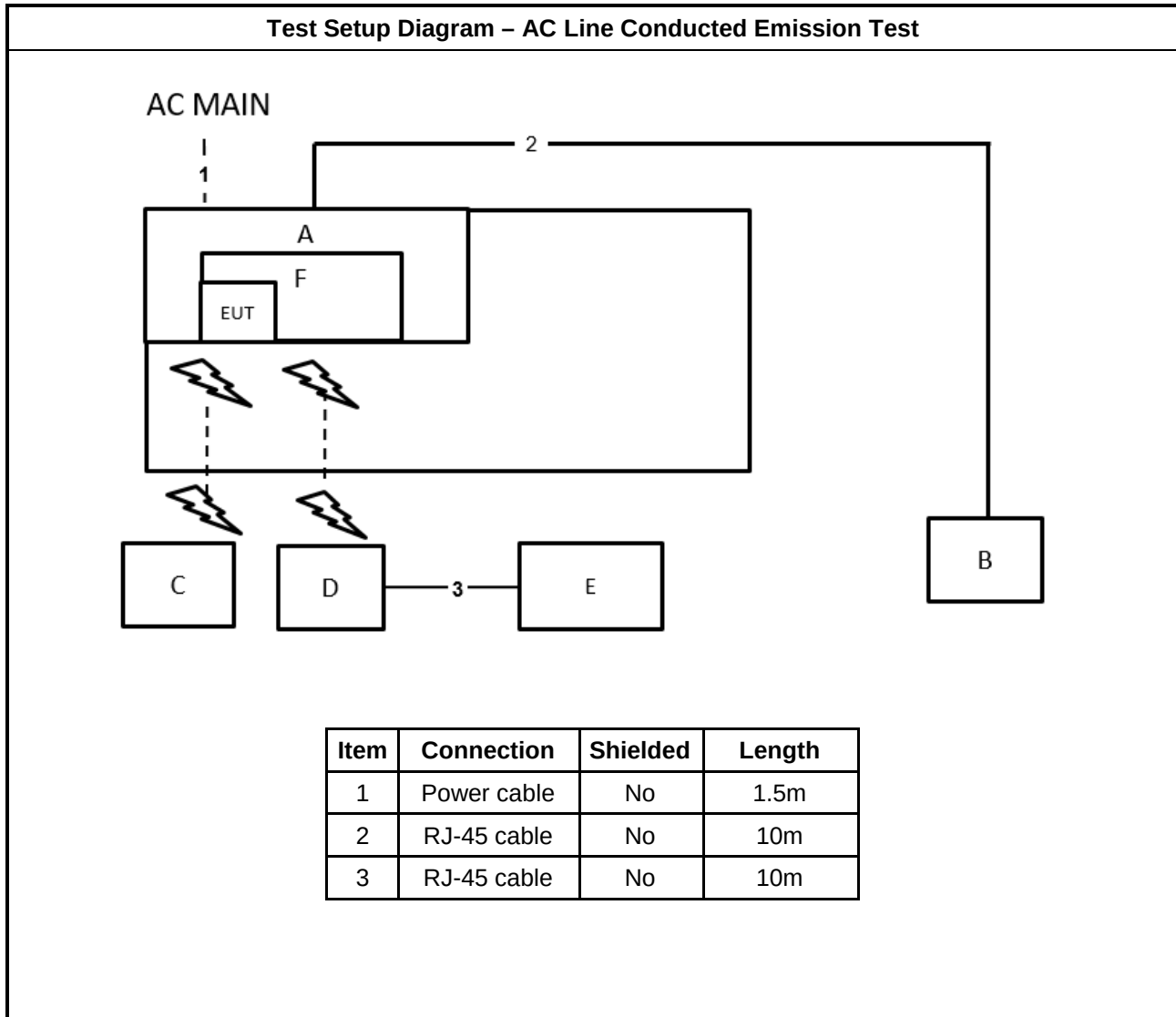
For Radiated (above 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Test Fixture	Arcadyan	N0IDM9922001J	N/A
C	Test Fixture	MASIMO HEOS	AIOS7 LPP	N/A

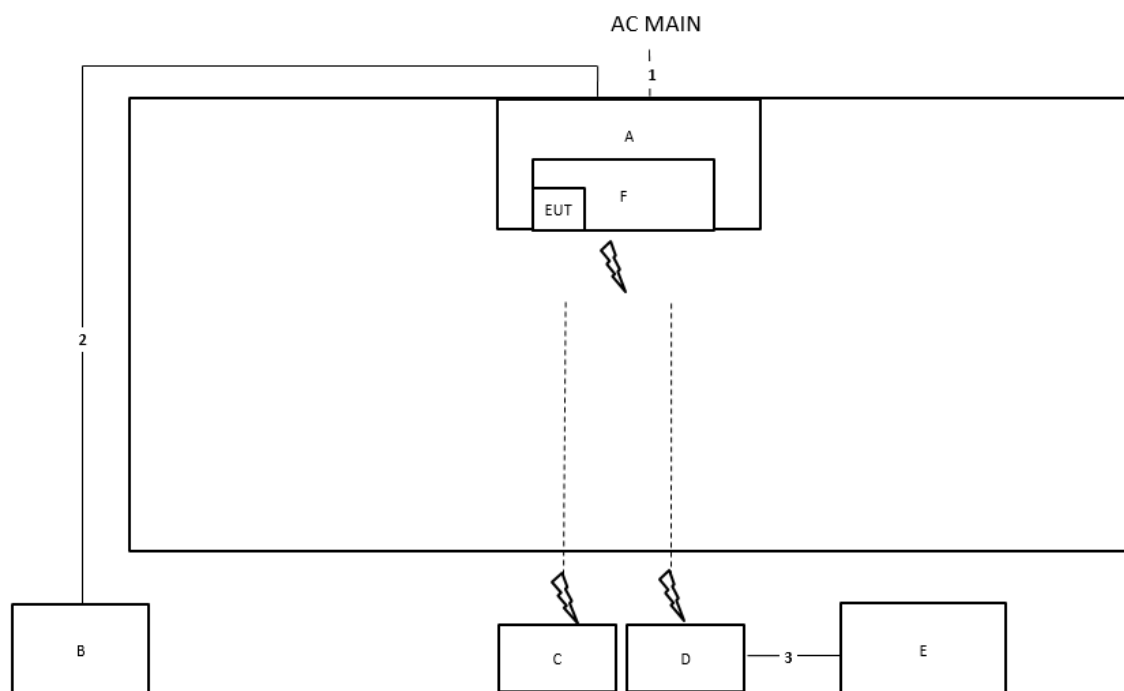
For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Test Fixture	MASIMO HEOS	AIOS7 LPP	N/A
C	Test Fixture	Arcadyan	N0IDM9922001J	N/A

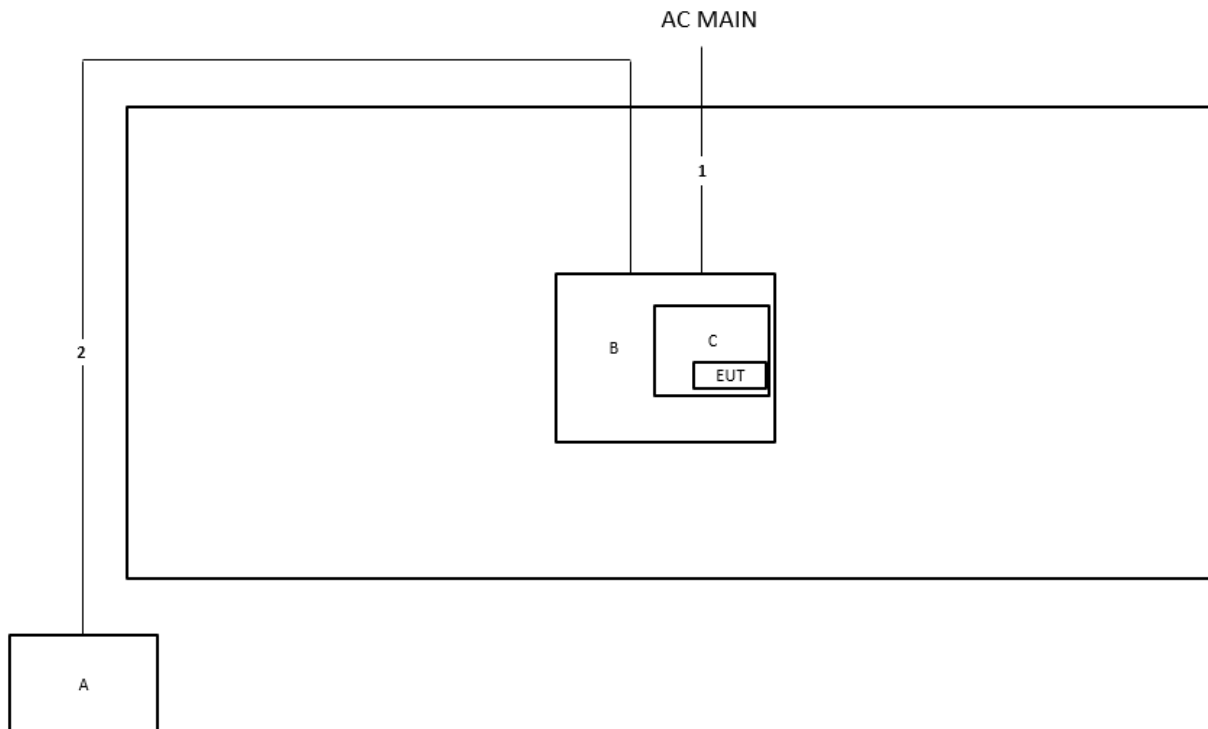
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz



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

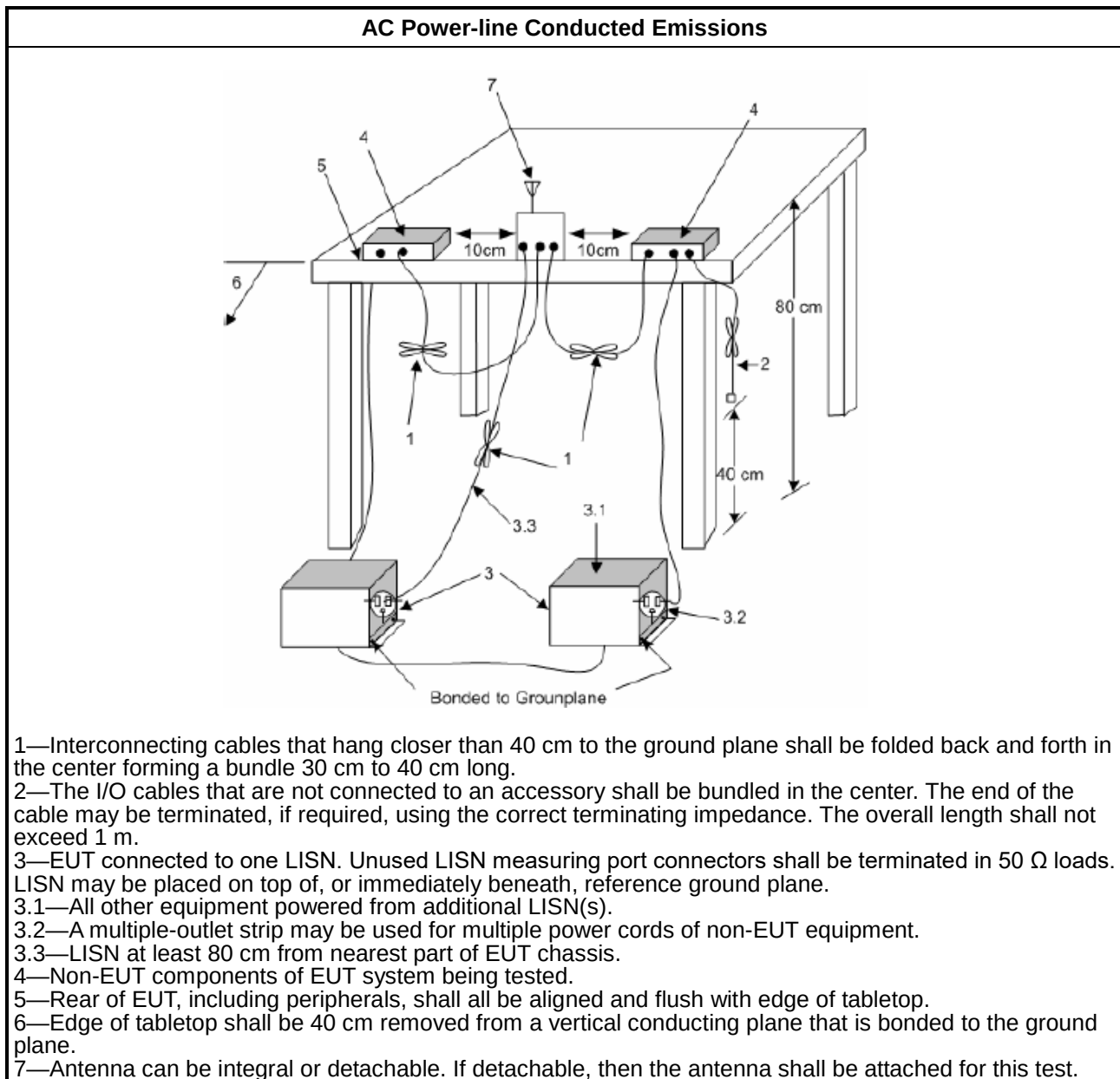
3.1.2 Measuring Instruments

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:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- 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 $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 250 kHz.
	▪ $50 > N \geq 25$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq \text{MAX}$ (20 dB bandwidth 2/3, 25 kHz).
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 1 MHz.
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

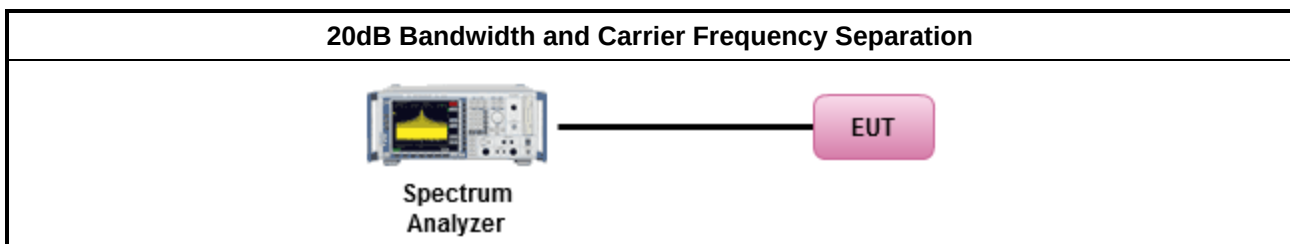
3.2.2 Measuring Instruments

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	
▪ 902-928 MHz Band:	
▪ N ≥ 50; Power 30dBm; EIRP 36dBm	
▪ 50 > N ≥ 25; Power 23.98dBm; EIRP 29.98dBm	
▪ 2400-2483.5 MHz Band:	
▪ N ≥ 75; Power 30dBm; EIRP 36dBm	
▪ 75 > N ≥ 15; Power 21dBm; EIRP 27dBm	
▪ 5725-5850 MHz Band:	
▪ N ≥ 75; Power 30dBm; EIRP 36dBm	
N: Number of Hopping Frequencies	

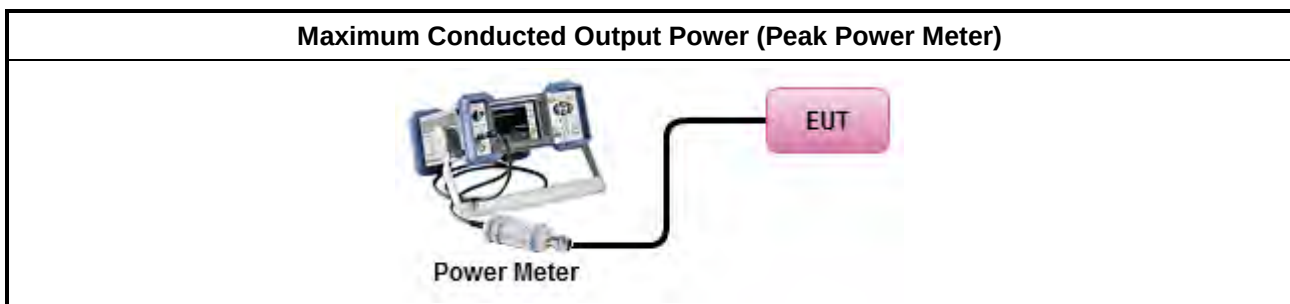
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 7.8.5 for output power measurement.

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 $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 250 kHz.
	▪ $50 > N \geq 25$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq \text{MAX}$ (20 dB bandwidth 2/3, 25 kHz).
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (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

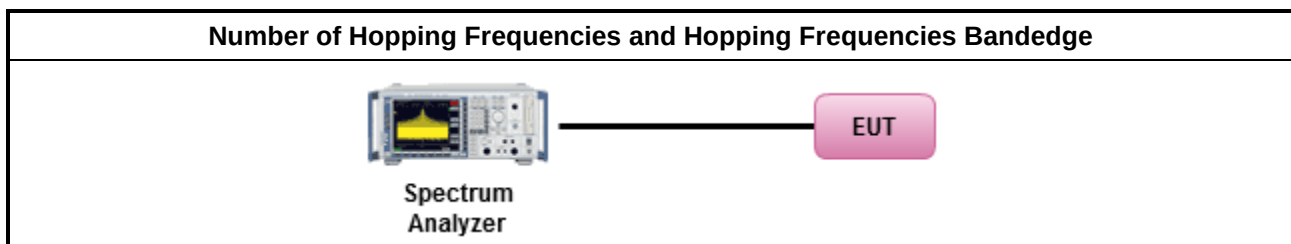
3.4.3 Measuring Instruments

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	

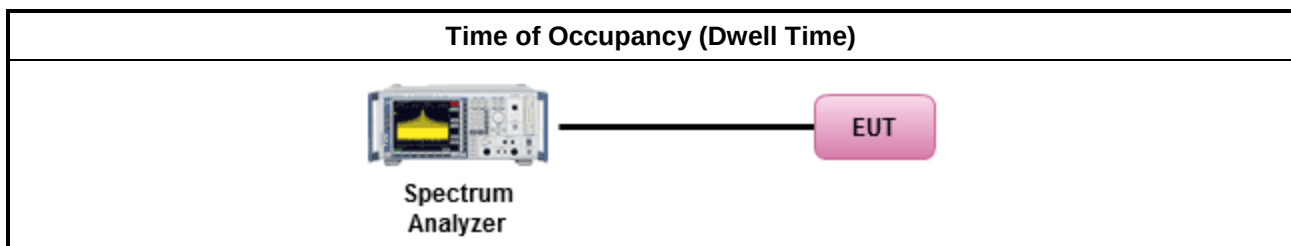
3.5.2 Measuring Instruments

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.	

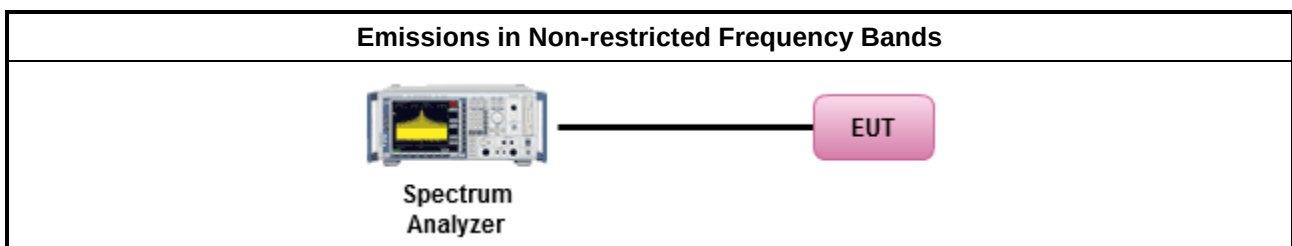
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands.

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.

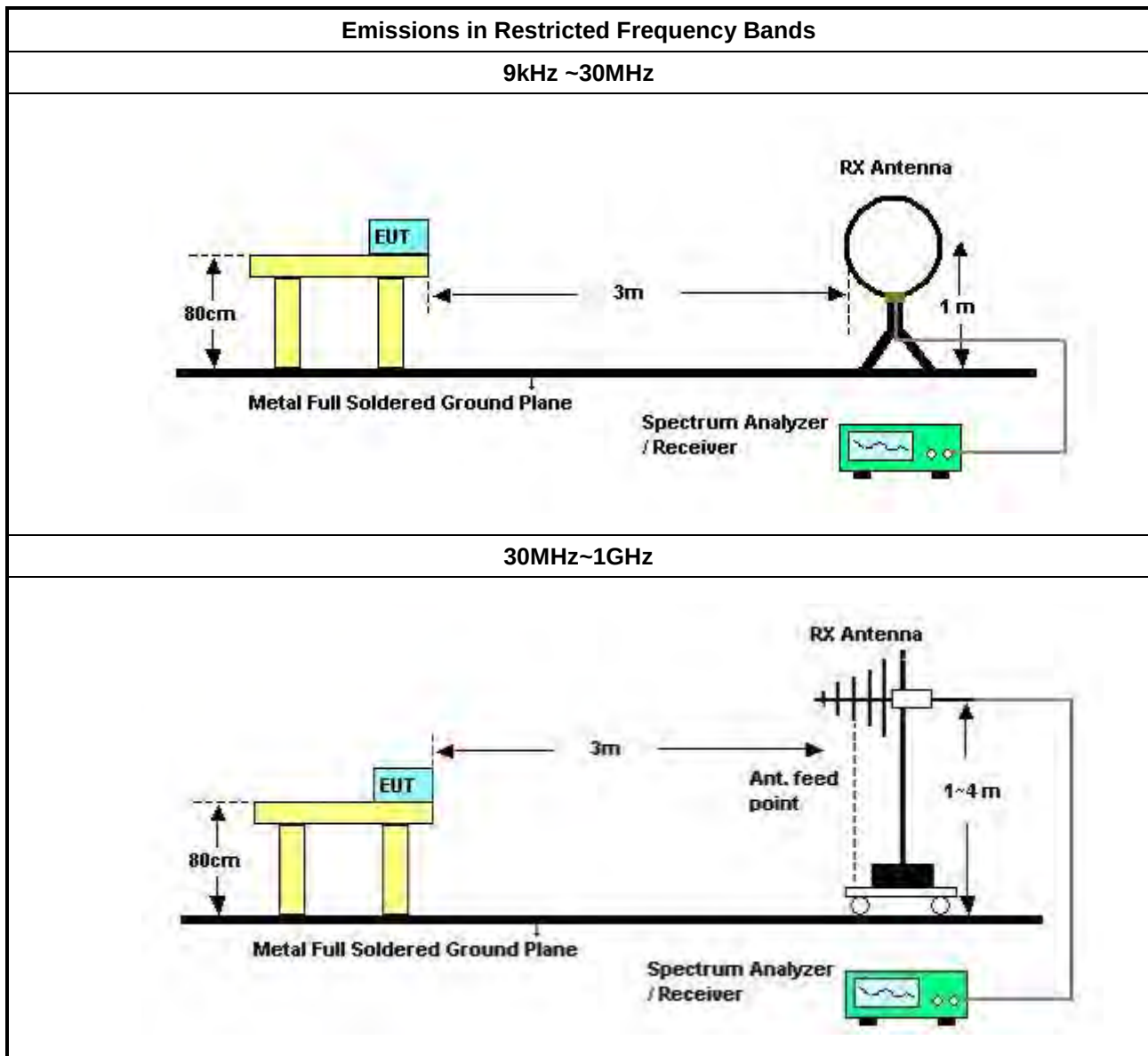
3.7.2 Measuring Instruments

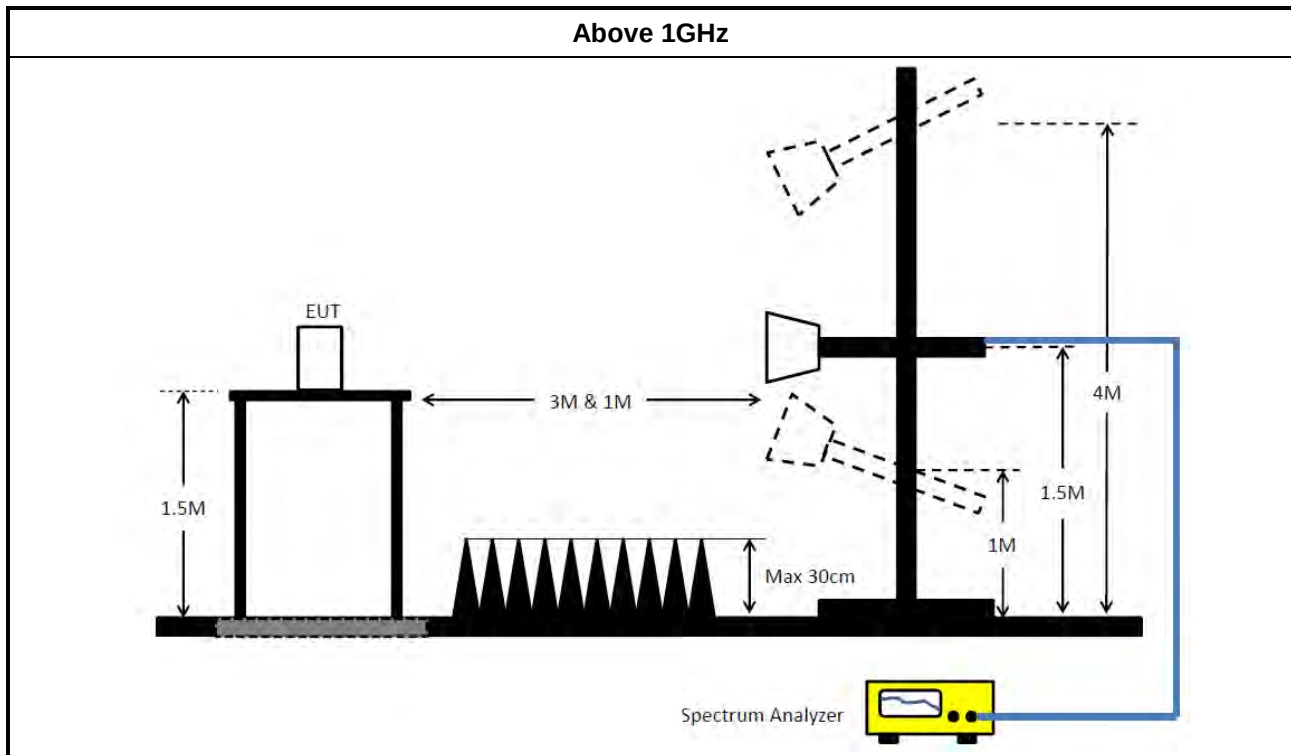
Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [hopping duty factor].	
▪ 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.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.
	▪ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
	▪ Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.

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. 12, 2022	Apr. 11, 2023	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. 18, 2022	Oct. 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	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)
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)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Dec. 05, 2022	Dec. 04, 2023	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
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+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	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#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	101027	9kHz~40GHz	Aug. 15, 2022	Aug. 14, 2023	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 17, 2022	Oct. 16, 2023	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 17, 2022	Oct. 16, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1 GHz –26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

NCR means Non-Calibration required.



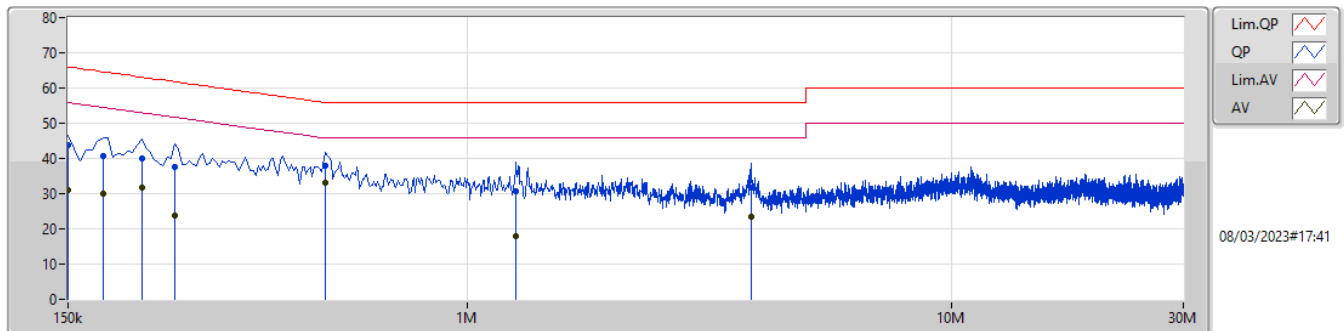
Conducted Emissions at Powerline

Appendix A

Summary

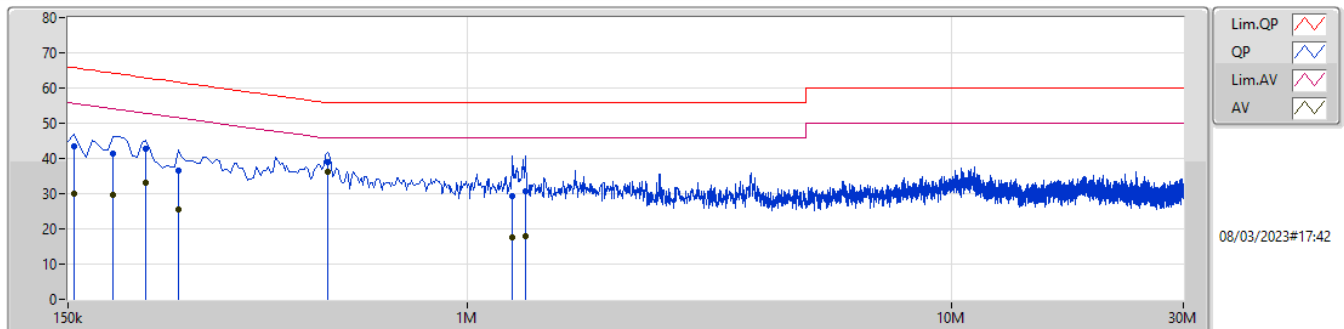
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	AV	514.5k	36.10	46.00	-9.90	Neutral

Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	43.75	66.00	-22.25	9.97	Line	-	33.78	0.06	0.04	9.87						
AV	150k	31.01	56.00	-24.99	9.97	Line	-	21.04	0.06	0.04	9.87						
QP	177k	40.69	64.62	-23.93	9.97	Line	-	30.72	0.06	0.04	9.87						
AV	177k	30.01	54.62	-24.61	9.97	Line	-	20.04	0.06	0.04	9.87						
QP	213k	40.13	63.09	-22.96	9.96	Line	-	30.17	0.06	0.04	9.86						
AV	213k	31.85	53.09	-21.24	9.96	Line	-	21.89	0.06	0.04	9.86						
QP	249k	37.57	61.79	-24.22	9.98	Line	-	27.59	0.06	0.05	9.87						
AV	249k	23.87	51.79	-27.92	9.98	Line	-	13.89	0.06	0.05	9.87						
QP	510k	38.05	56.00	-17.95	10.01	Line	-	28.04	0.06	0.05	9.90						
AV	510k	32.95	46.00	-13.05	10.01	Line	"Worst"	22.94	0.06	0.05	9.90						
QP	1.262M	30.54	56.00	-25.46	10.04	Line	-	20.50	0.08	0.06	9.90						
AV	1.262M	17.93	46.00	-28.07	10.04	Line	-	7.89	0.08	0.06	9.90						
QP	3.854M	31.76	56.00	-24.24	10.13	Line	-	21.63	0.12	0.10	9.91						
AV	3.854M	23.42	46.00	-22.58	10.13	Line	-	13.29	0.12	0.10	9.91						

Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	154.5k	43.42	65.75	-22.33	9.98	Neutral	-	33.44	0.07	0.04	9.87						
AV	154.5k	30.13	55.75	-25.62	9.98	Neutral	-	20.15	0.07	0.04	9.87						
QP	186k	41.28	64.20	-22.92	9.97	Neutral	-	31.31	0.07	0.04	9.86						
AV	186k	29.79	54.20	-24.41	9.97	Neutral	-	19.82	0.07	0.04	9.86						
QP	217.5k	42.83	62.92	-20.09	9.97	Neutral	-	32.86	0.07	0.04	9.86						
AV	217.5k	33.18	52.92	-19.74	9.97	Neutral	-	23.21	0.07	0.04	9.86						
QP	253.5k	36.61	61.64	-25.03	9.99	Neutral	-	26.62	0.07	0.05	9.87						
AV	253.5k	25.54	51.64	-26.10	9.99	Neutral	-	15.55	0.07	0.05	9.87						
QP	514.5k	38.95	56.00	-17.05	10.02	Neutral	-	28.93	0.07	0.05	9.90						
AV	514.5k	36.10	46.00	-9.90	10.02	Neutral	"Worst"	26.08	0.07	0.05	9.90						
QP	1.239M	29.48	56.00	-26.52	10.05	Neutral	-	19.43	0.09	0.06	9.90						
AV	1.239M	17.66	46.00	-28.34	10.05	Neutral	-	7.61	0.09	0.06	9.90						
QP	1.316M	30.52	56.00	-25.48	10.05	Neutral	-	20.47	0.09	0.06	9.90						
AV	1.316M	17.76	46.00	-28.24	10.05	Neutral	-	7.71	0.09	0.06	9.90						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	798.75k	761.912k	762KF1D	792.5k	758.883k
BT-EDR(2Mbps)	1.214M	1.171M	1M17G1D	1.203M	1.17M
BT-EDR(3Mbps)	1.244M	1.176M	1M18G1D	1.239M	1.172M

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

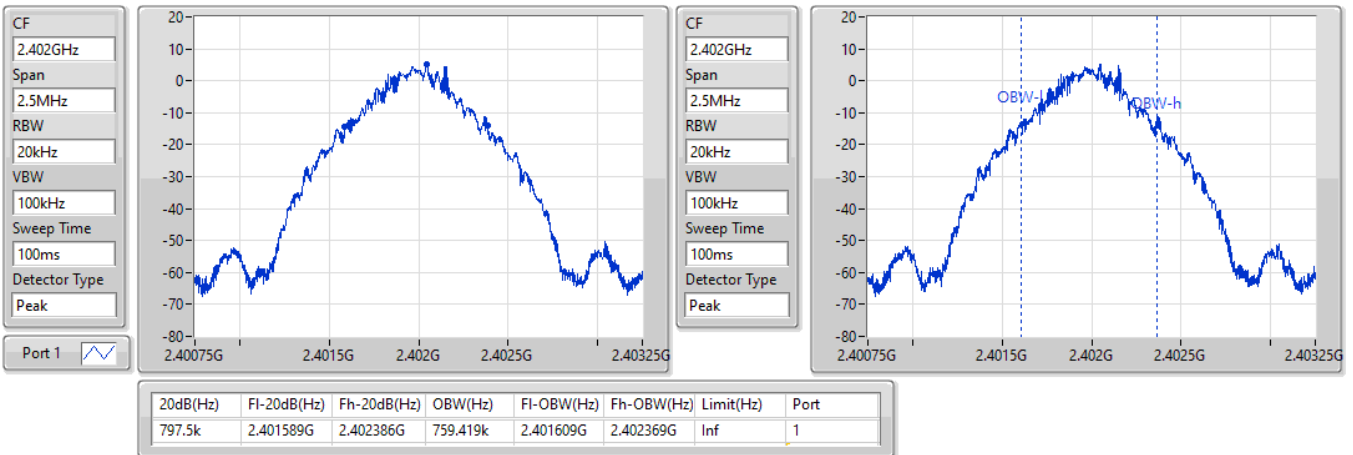
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	797.5k	759.419k
2440MHz	Pass	Inf	792.5k	761.912k
2480MHz	Pass	Inf	798.75k	758.883k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.203M	1.171M
2440MHz	Pass	Inf	1.214M	1.17M
2480MHz	Pass	Inf	1.213M	1.171M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.241M	1.175M
2440MHz	Pass	Inf	1.244M	1.176M
2480MHz	Pass	Inf	1.239M	1.172M

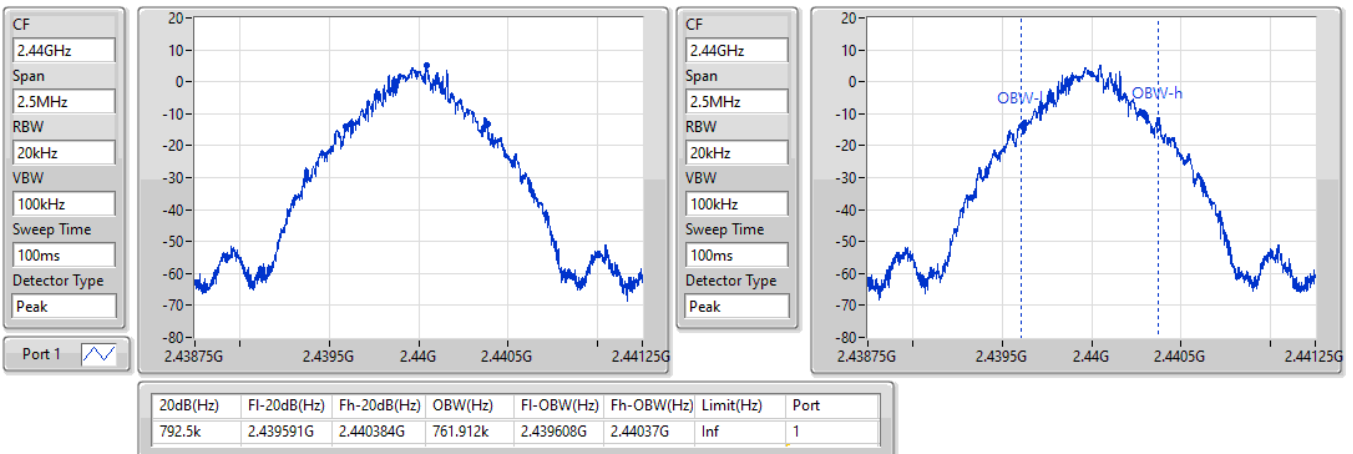
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-BR(1Mbps)
2402MHz
EBW-FS

17/02/2023

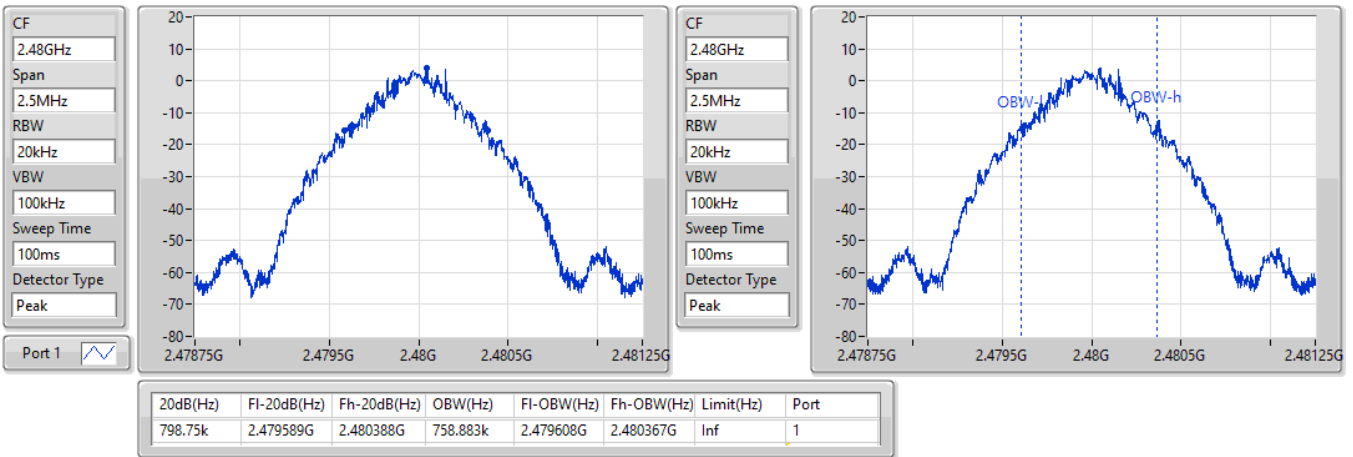

BT-BR(1Mbps)
2440MHz
EBW-FS

17/02/2023

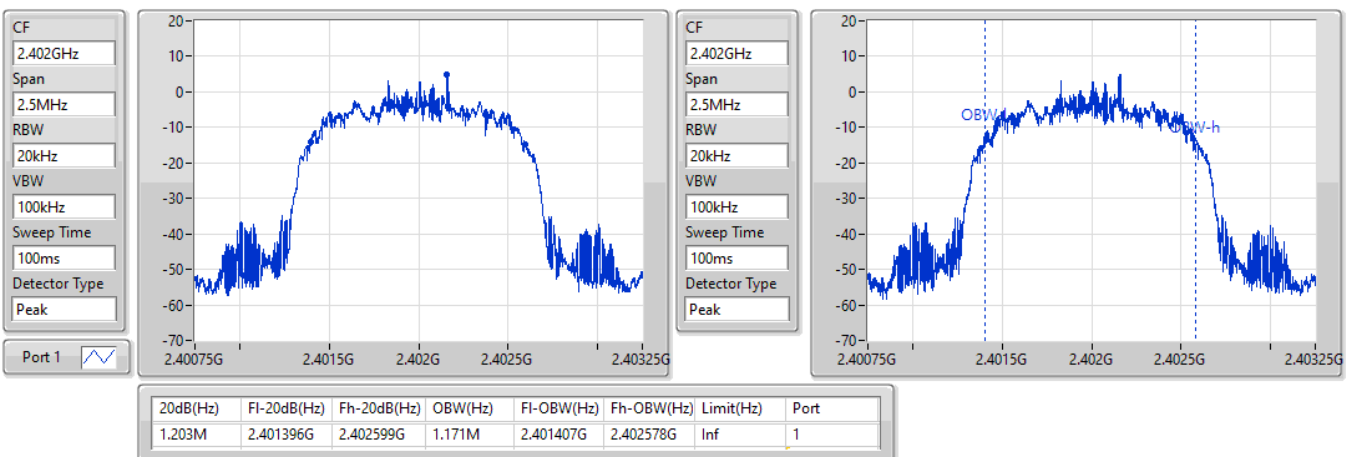


BT-BR(1Mbps)
EBW-FS
2480MHz

17/02/2023

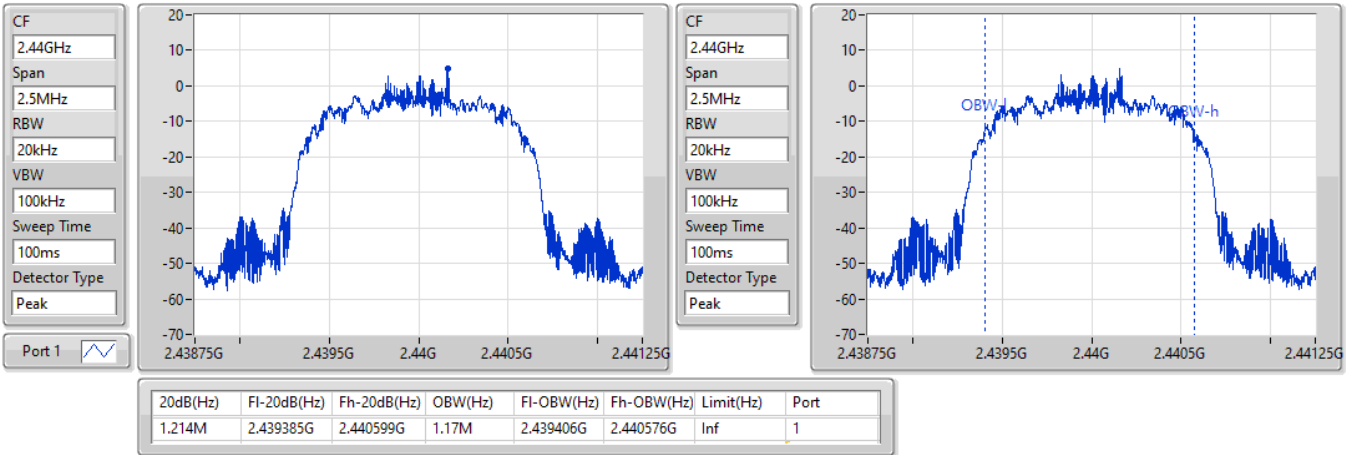

BT-EDR(2Mbps)
EBW-FS
2402MHz

17/02/2023

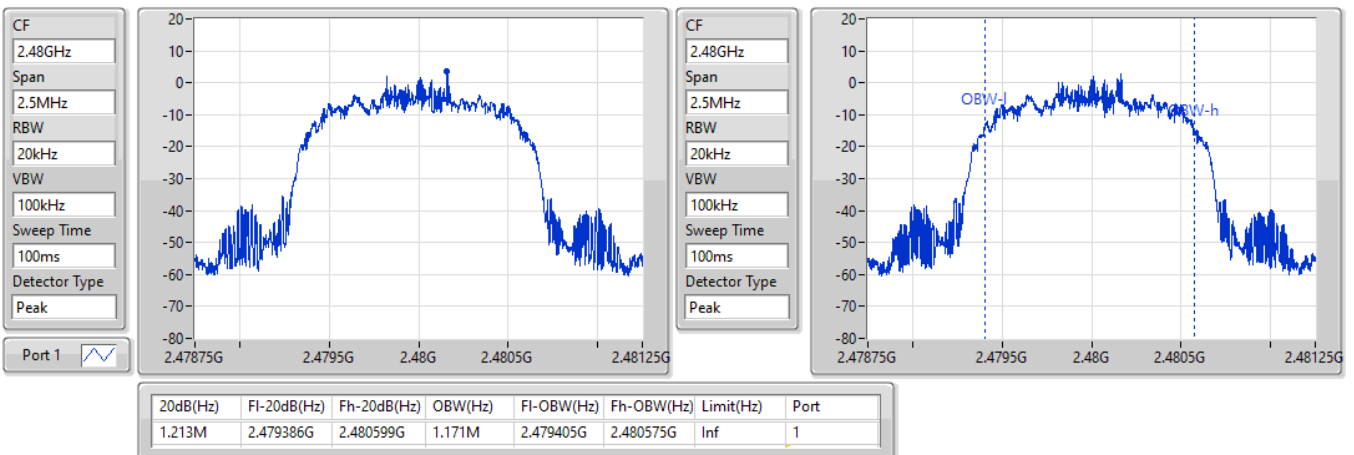


BT-EDR(2Mbps)
EBW-FS
2440MHz

17/02/2023

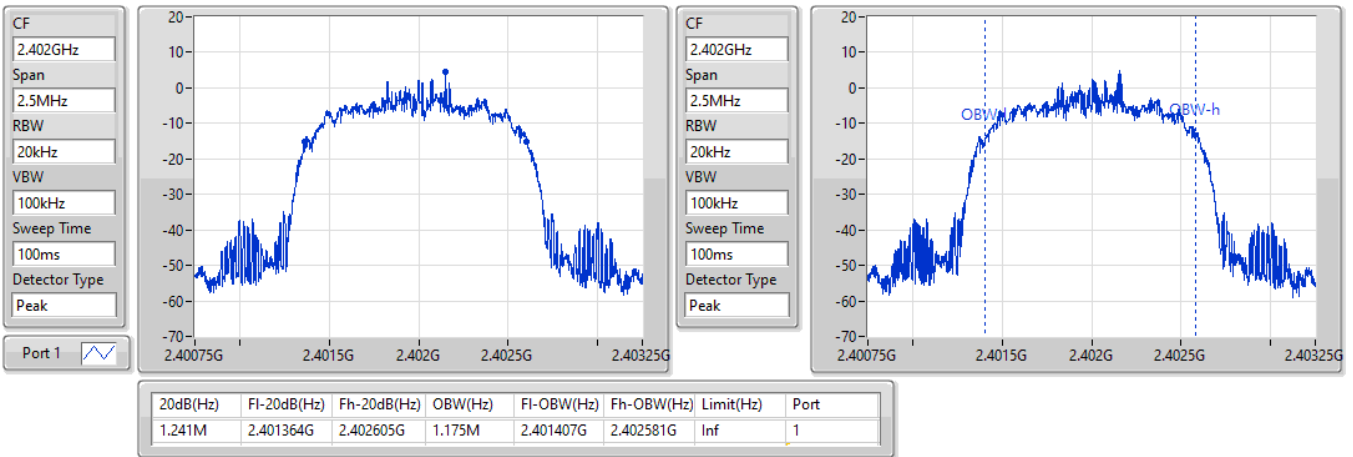

BT-EDR(2Mbps)
EBW-FS
2480MHz

17/02/2023

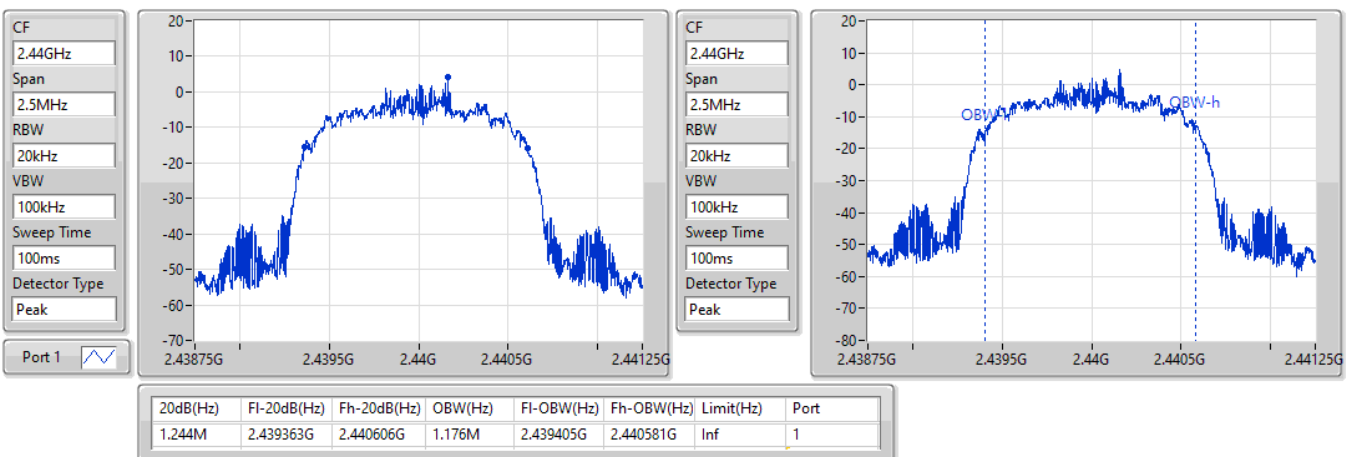


BT-EDR(3Mbps)
EBW-FS
2402MHz

17/02/2023

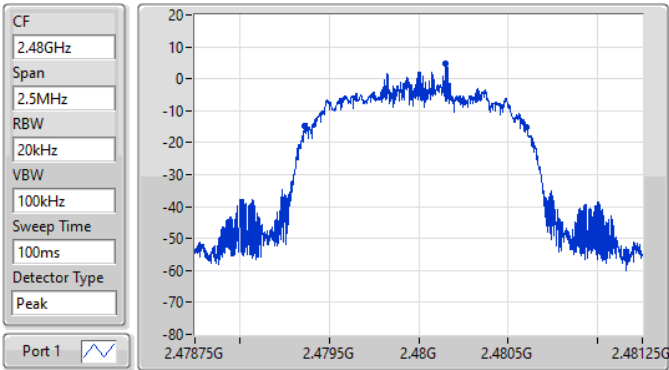

BT-EDR(3Mbps)
EBW-FS
2440MHz

17/02/2023



BT-EDR(3Mbps)

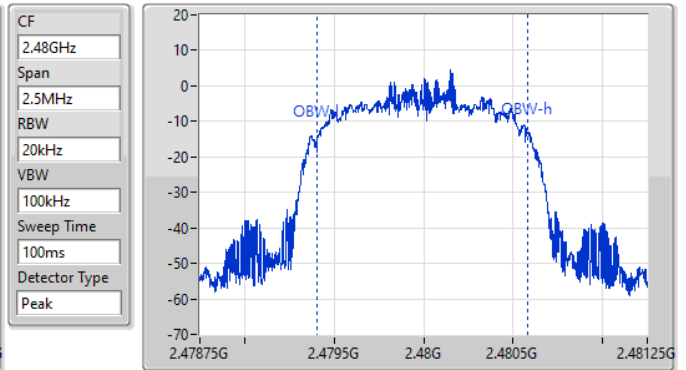
2480MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.239M	2.479365G	2.480604G	1.172M	2.479406G	2.480578G	Inf	1

EBW-FS

17/02/2023



Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.002M	997.5k
BT-EDR(2Mbps)	1.002M	1.0005M
BT-EDR(3Mbps)	1.002M	999k

Result

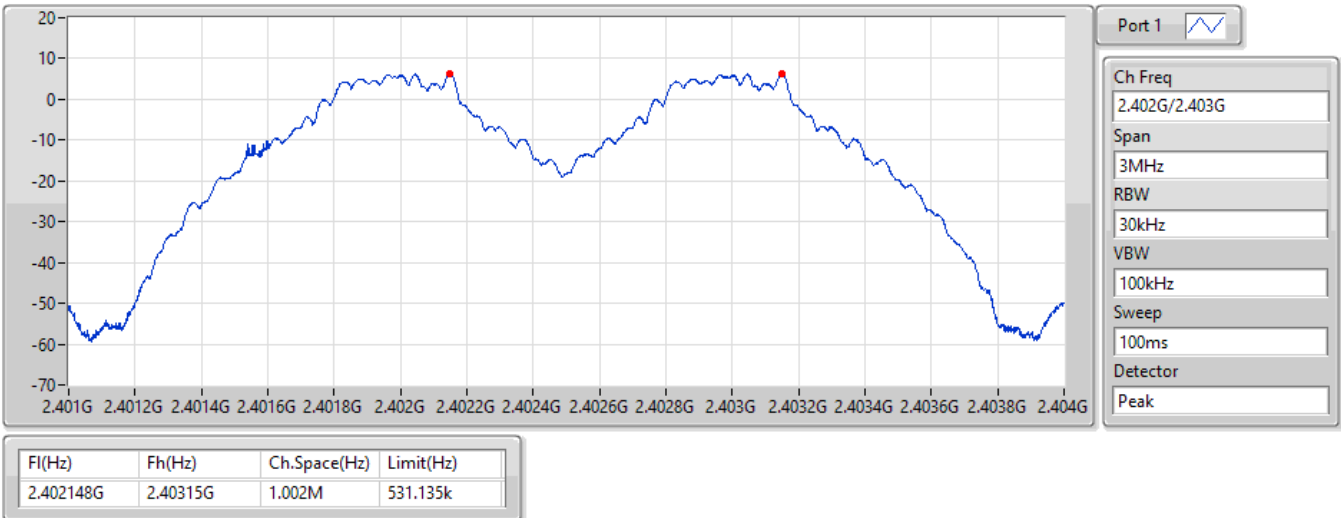
Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402148G	2.40315G	1.002M	531.135k
2440MHz	Pass	2.440149G	2.44115G	1.0005M	527.805k
2480MHz	Pass	2.479151G	2.480148G	997.5k	531.9675k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402157G	2.403157G	1.0005M	801.198k
2440MHz	Pass	2.440157G	2.441157G	1.0005M	808.524k
2480MHz	Pass	2.479155G	2.480157G	1.002M	807.858k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402155G	2.403156G	1.0005M	826.506k
2440MHz	Pass	2.440155G	2.441157G	1.002M	828.504k
2480MHz	Pass	2.479154G	2.480153G	999k	825.174k

BT-BR(1Mbps)

2.402G/2.403GHz

Channel Separation-FS

17/02/2023

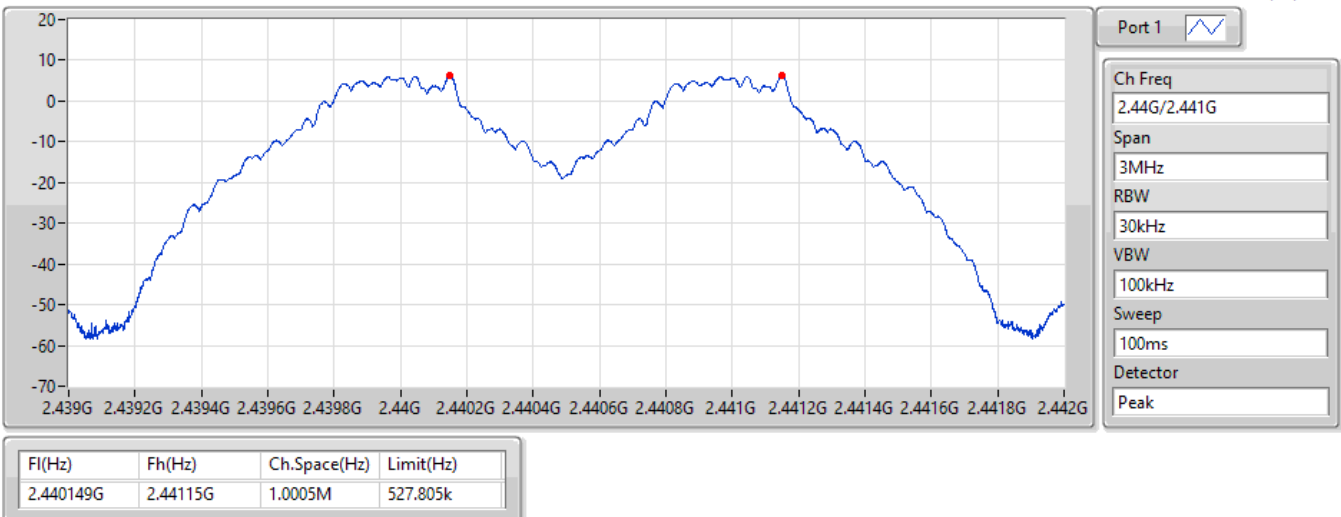


BT-BR(1Mbps)

2.44G/2.441GHz

Channel Separation-FS

17/02/2023

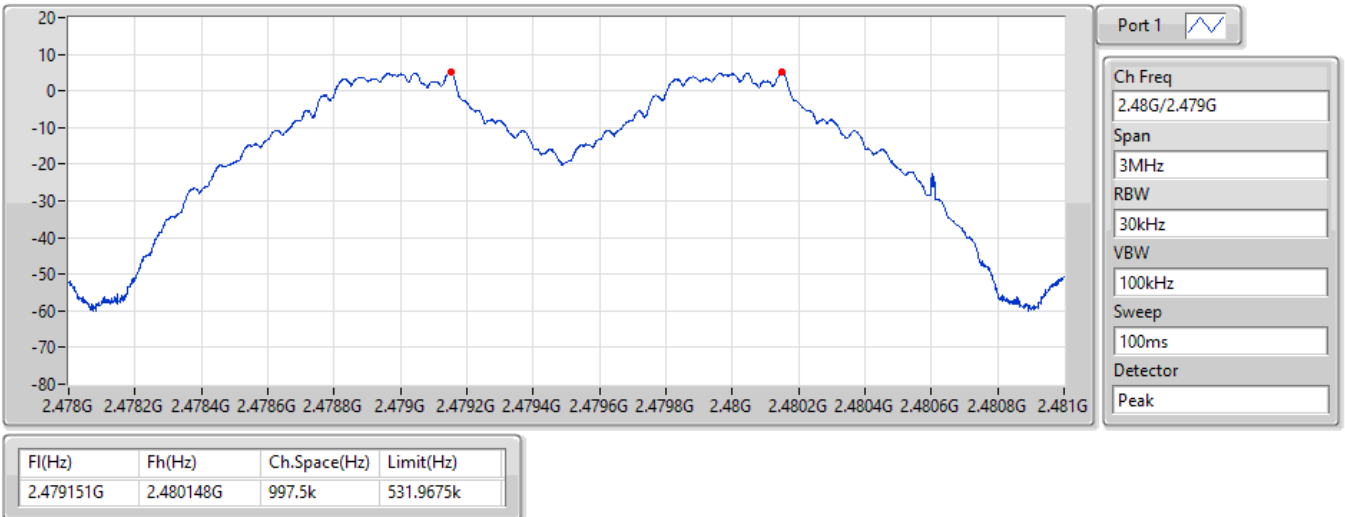


BT-BR(1Mbps)

2.48G/2.479GHz

Channel Separation-FS

17/02/2023

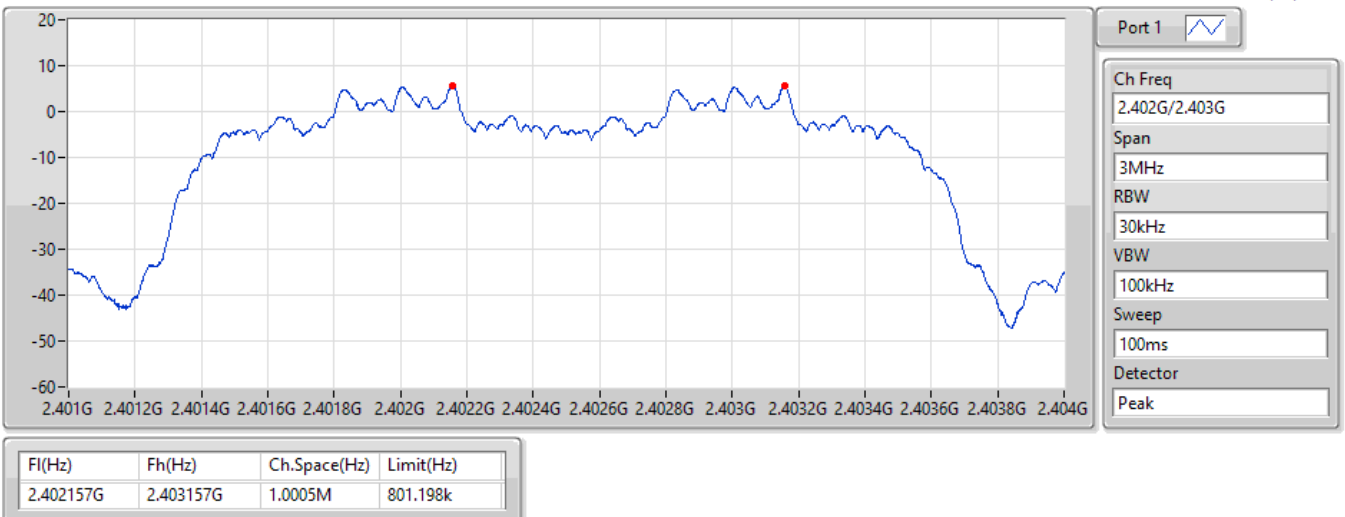


BT-EDR(2Mbps)

2.402G/2.403GHz

Channel Separation-FS

17/02/2023

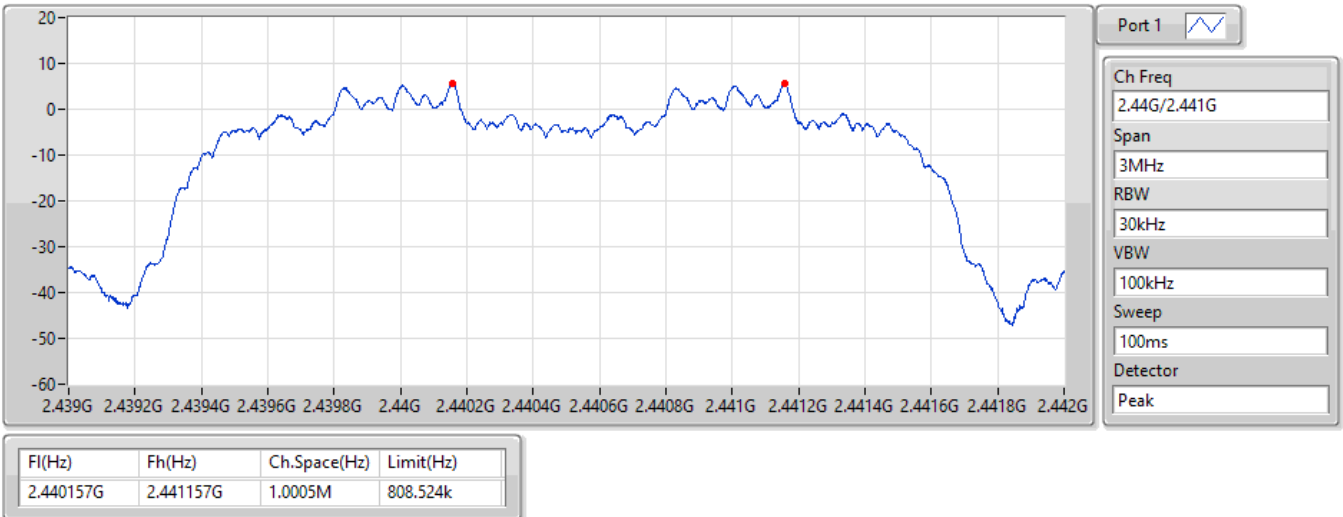


BT-EDR(2Mbps)

2.44G/2.441GHz

Channel Separation-FS

17/02/2023

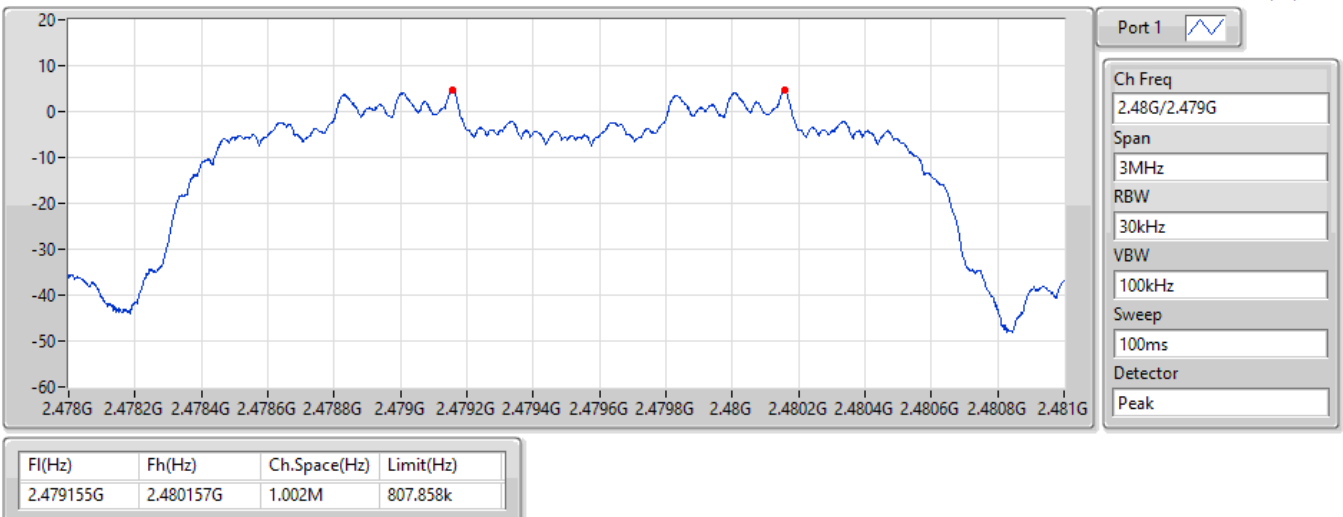


BT-EDR(2Mbps)

2.48G/2.479GHz

Channel Separation-FS

17/02/2023

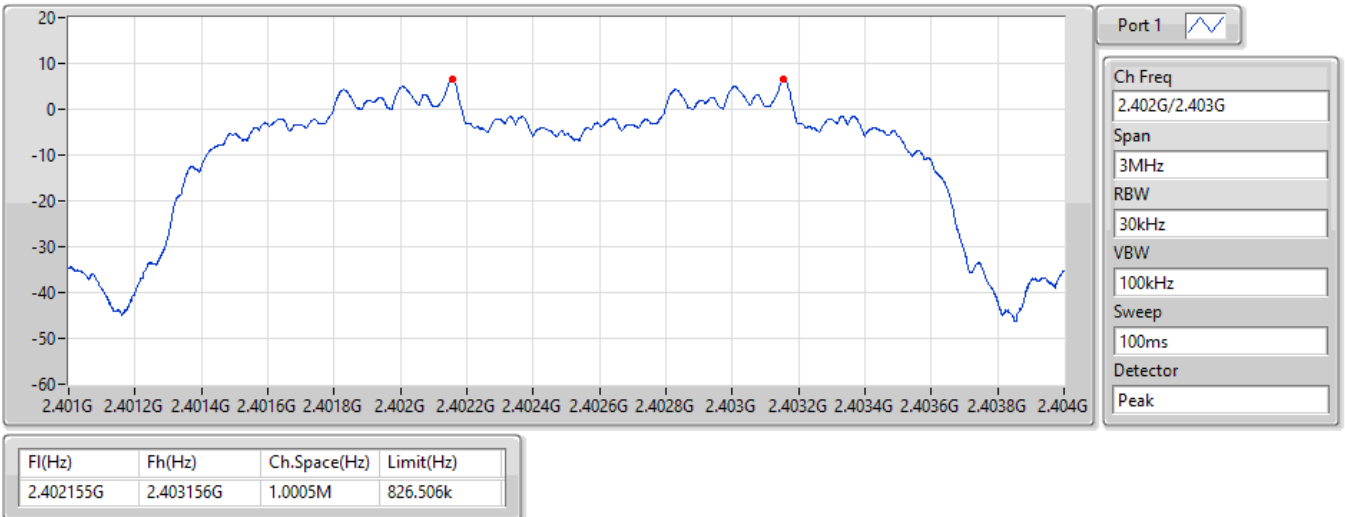


BT-EDR(3Mbps)

2.402G/2.403GHz

Channel Separation-FS

17/02/2023



BT-EDR(3Mbps)

2.44G/2.441GHz

Channel Separation-FS

17/02/2023



BT-EDR(3Mbps)

2.48G/2.479GHz

Channel Separation-FS

17/02/2023





Average Power-FHSS

Appendix C.1

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.41	0.00873
BT-EDR(2Mbps)	6.88	0.00488
BT-EDR(3Mbps)	7.04	0.00506



Average Power-FHSS

Appendix C.1

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.10	9.41	21.00
2440MHz	Pass	2.10	9.14	21.00
2480MHz	Pass	2.10	7.76	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.10	6.88	21.00
2440MHz	Pass	2.10	6.20	21.00
2480MHz	Pass	2.10	5.35	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.10	7.04	21.00
2440MHz	Pass	2.10	6.50	21.00
2480MHz	Pass	2.10	6.42	21.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.50	0.00891
BT-EDR(2Mbps)	8.88	0.00773
BT-EDR(3Mbps)	9.05	0.00804

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.10	9.50	21.00
2440MHz	Pass	2.10	9.28	21.00
2480MHz	Pass	2.10	7.84	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.10	8.88	21.00
2440MHz	Pass	2.10	8.67	21.00
2480MHz	Pass	2.10	7.71	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.10	9.05	21.00
2440MHz	Pass	2.10	8.82	21.00
2480MHz	Pass	2.10	8.71	21.00

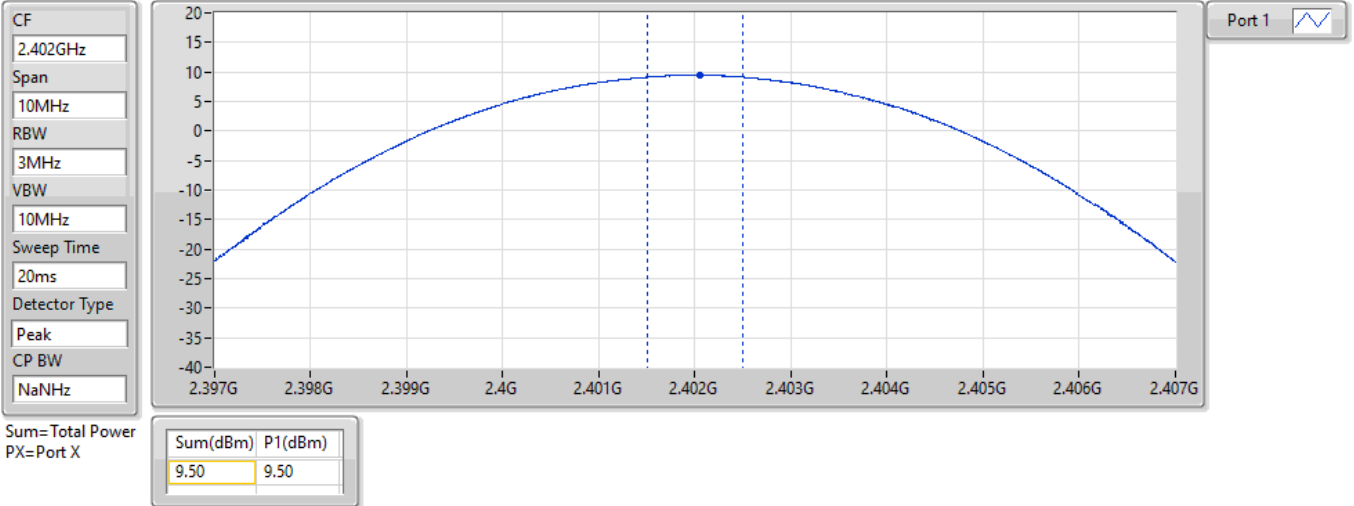
DG = Directional Gain; Port X = Port X output power

BT-BR(1Mbps)

PK Power-FS

2402MHz

17/02/2023

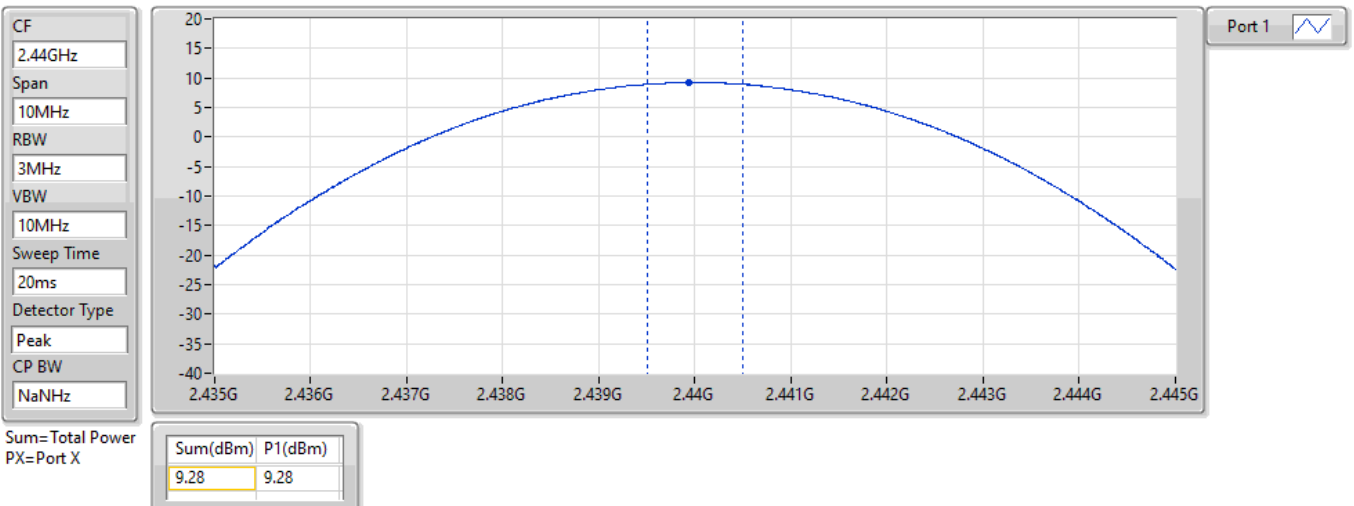


BT-BR(1Mbps)

PK Power-FS

2440MHz

17/02/2023

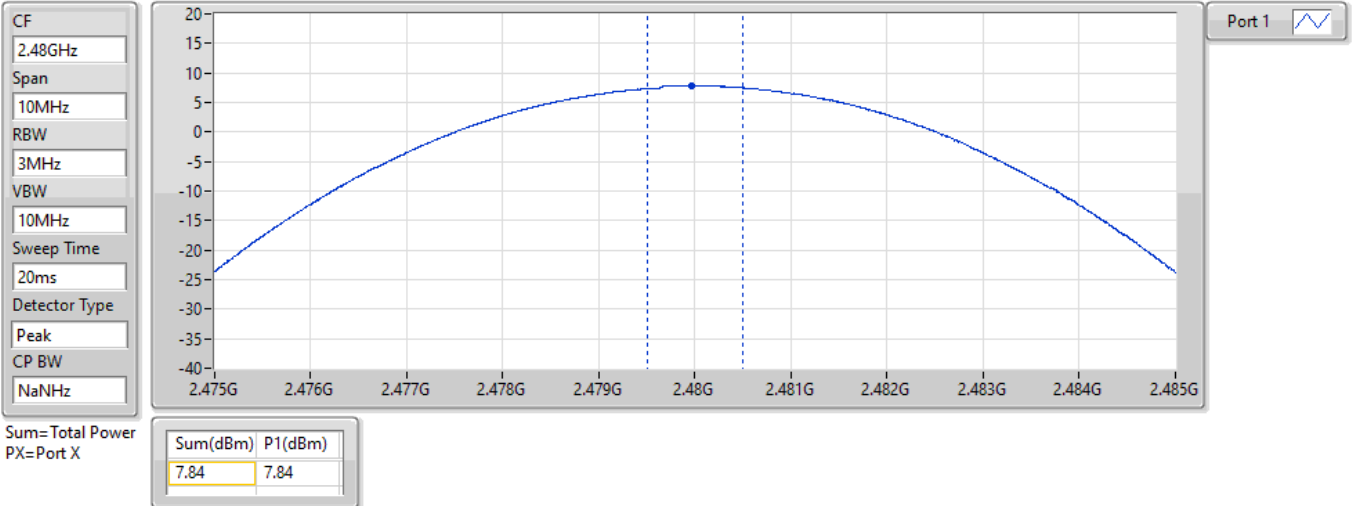


BT-BR(1Mbps)

PK Power-FS

2480MHz

17/02/2023

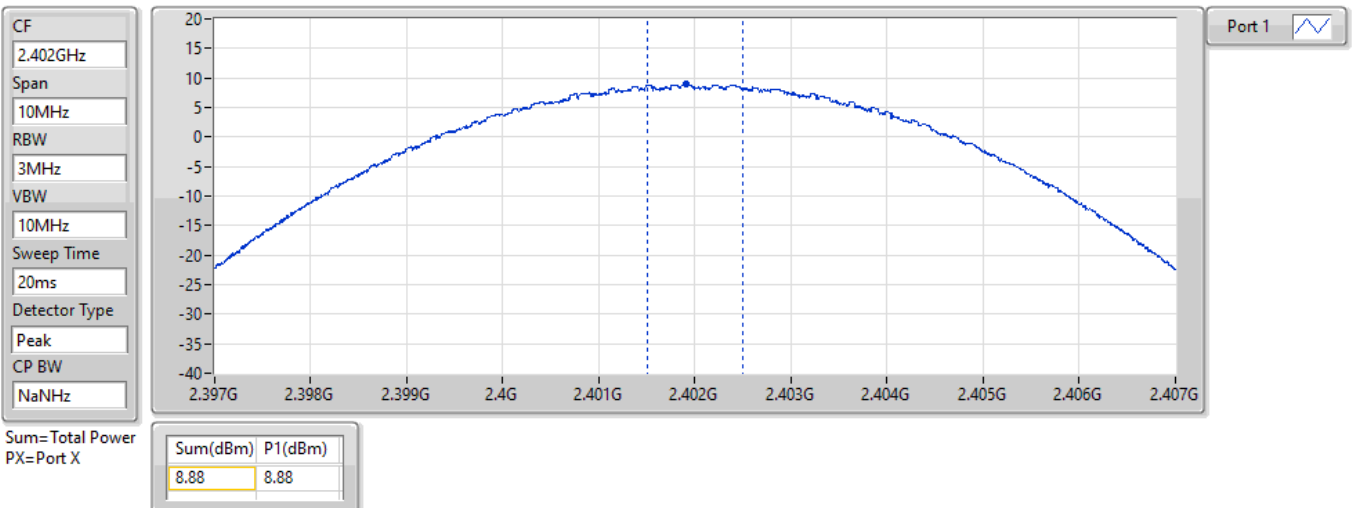


BT-EDR(2Mbps)

PK Power-FS

2402MHz

17/02/2023

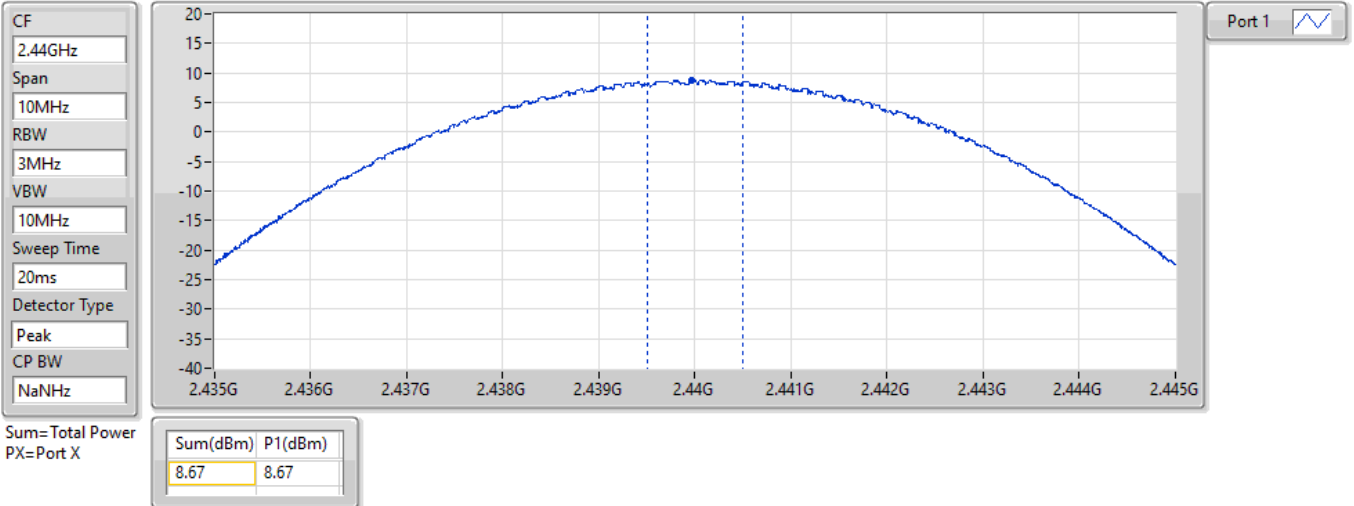


BT-EDR(2Mbps)

PK Power-FS

2440MHz

17/02/2023

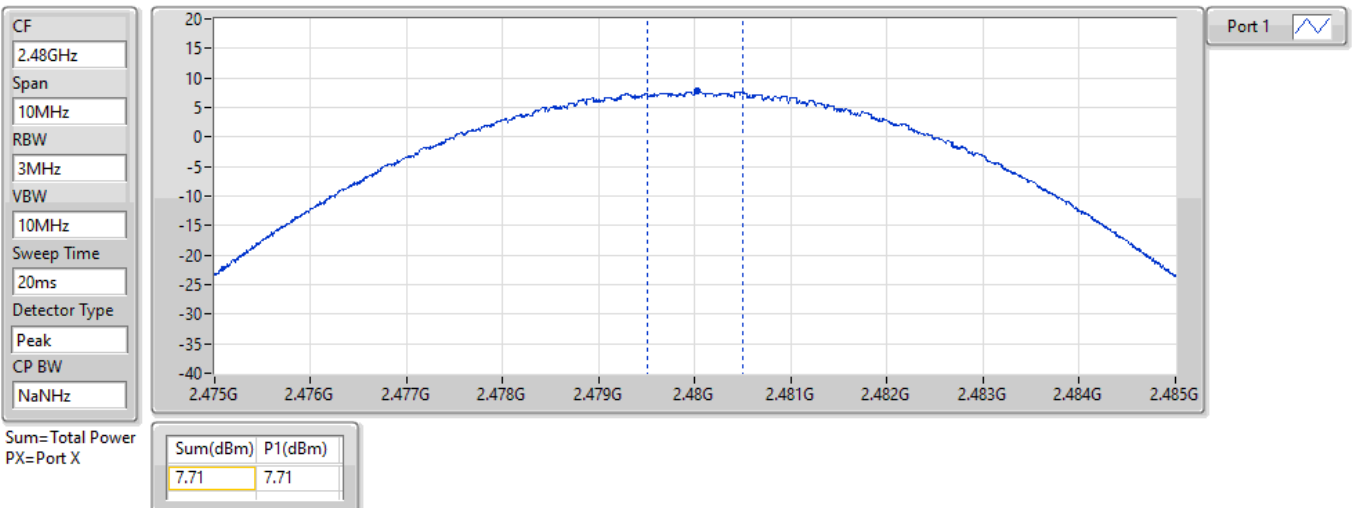


BT-EDR(2Mbps)

PK Power-FS

2480MHz

17/02/2023

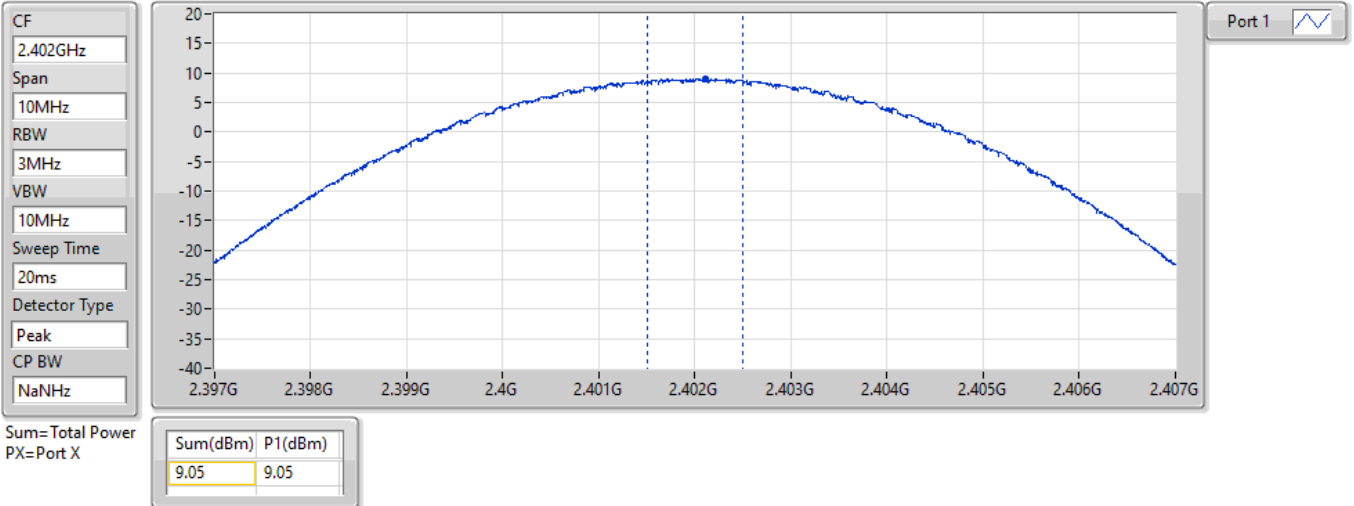


BT-EDR(3Mbps)

PK Power-FS

2402MHz

17/02/2023

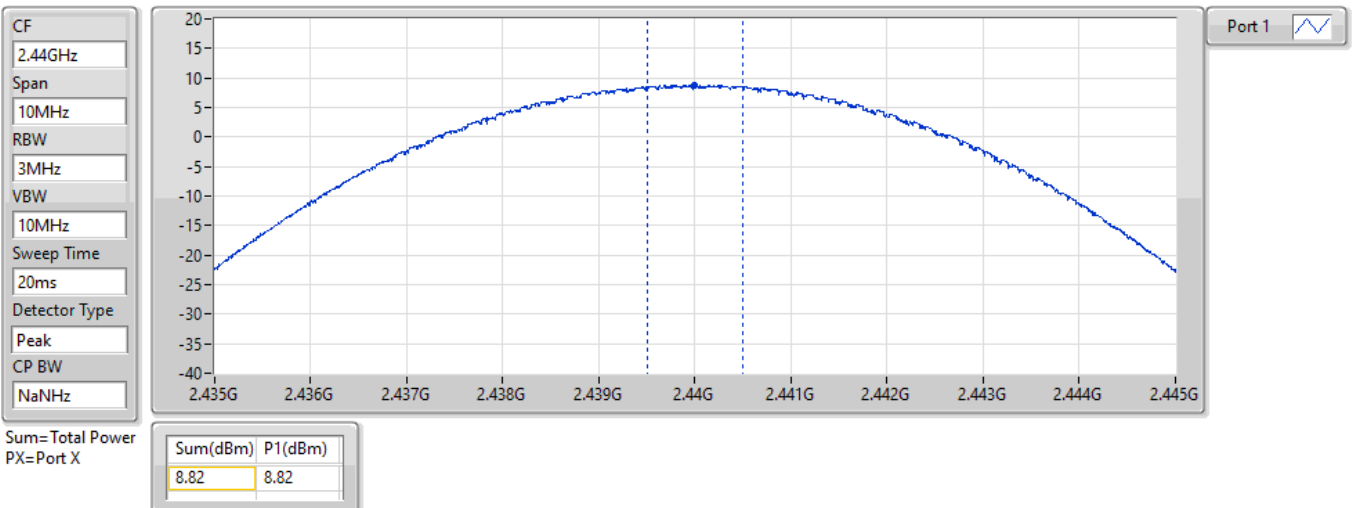


BT-EDR(3Mbps)

PK Power-FS

2440MHz

17/02/2023

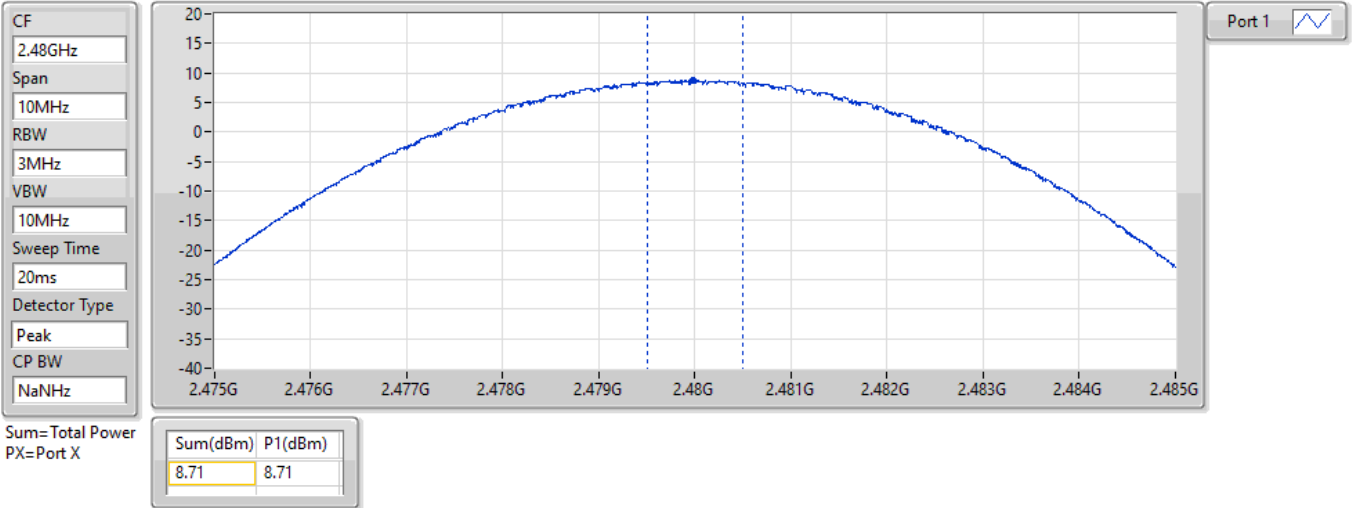


BT-EDR(3Mbps)

PK Power-FS

2480MHz

17/02/2023





Summary

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

Result

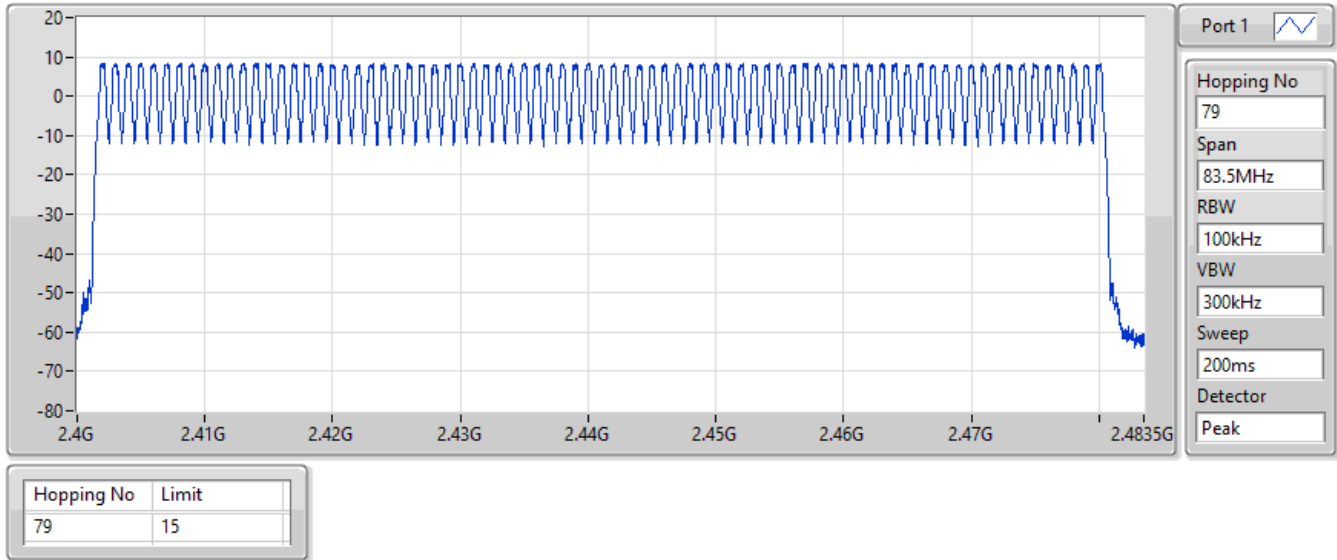
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15

BT-BR(1Mbps)

2440MHz

Hopping-FS

17/02/2023

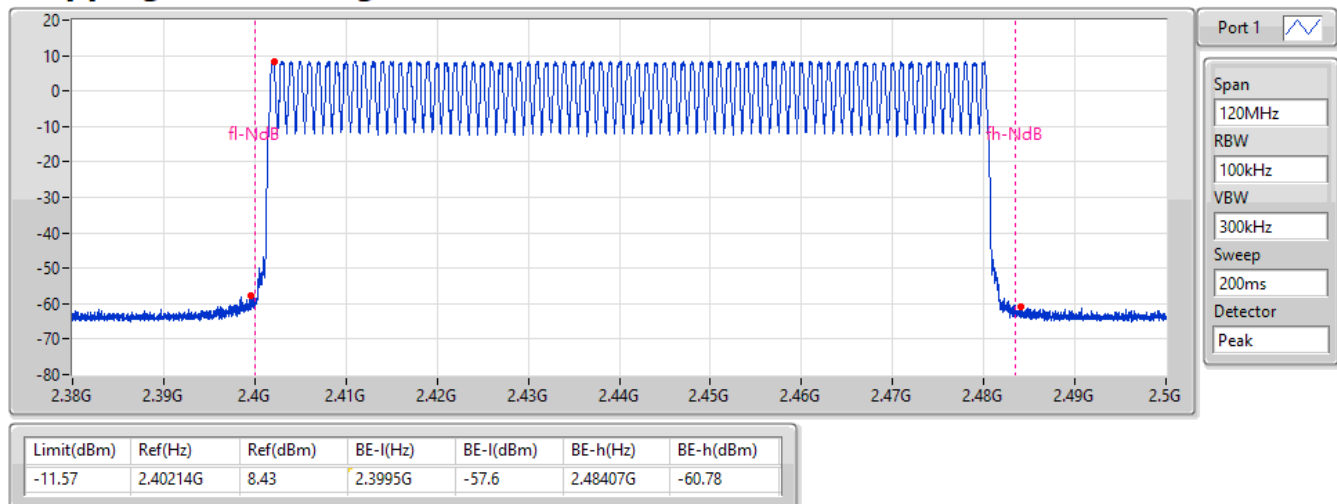


BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

17/02/2023

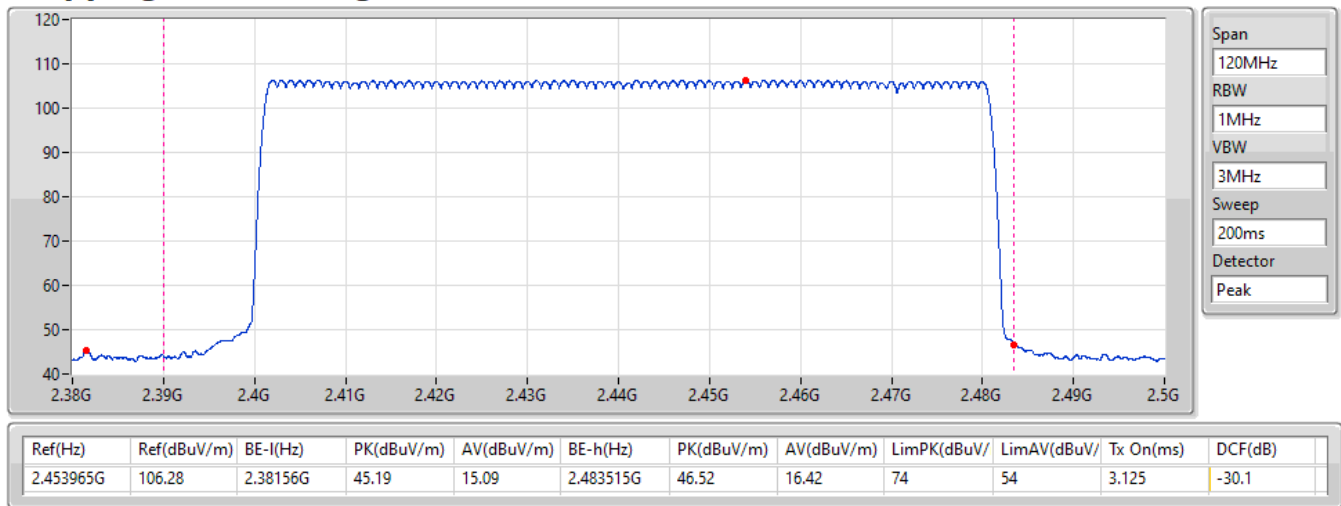


BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

17/02/2023

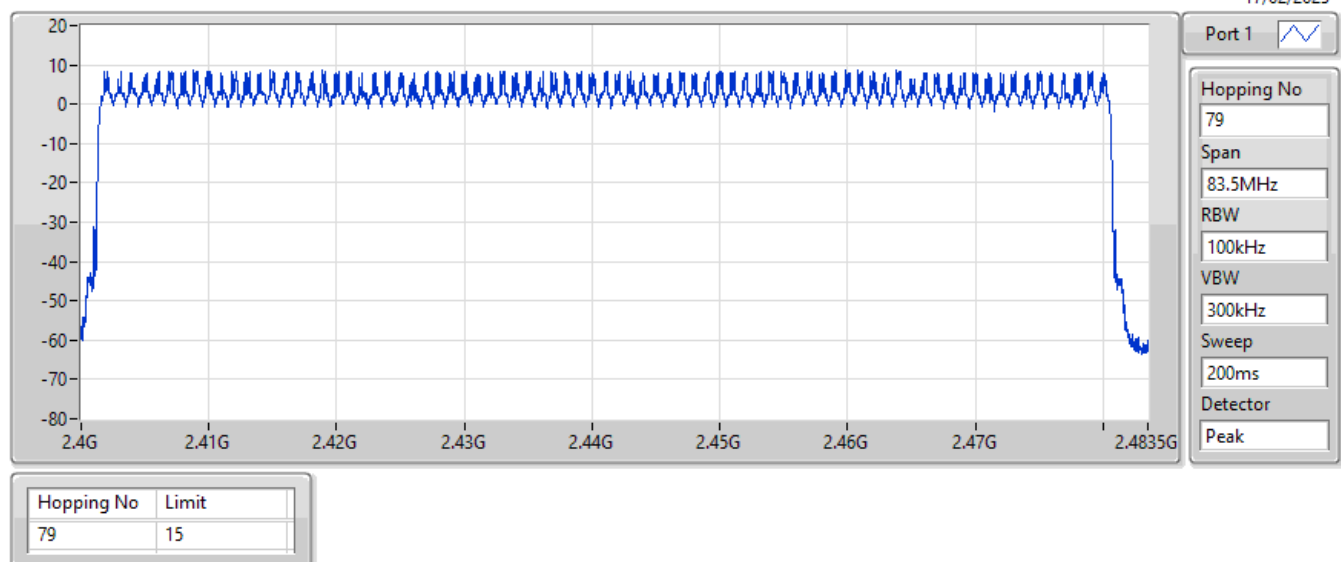


BT-EDR(2Mbps)

2440MHz

Hopping-FS

17/02/2023

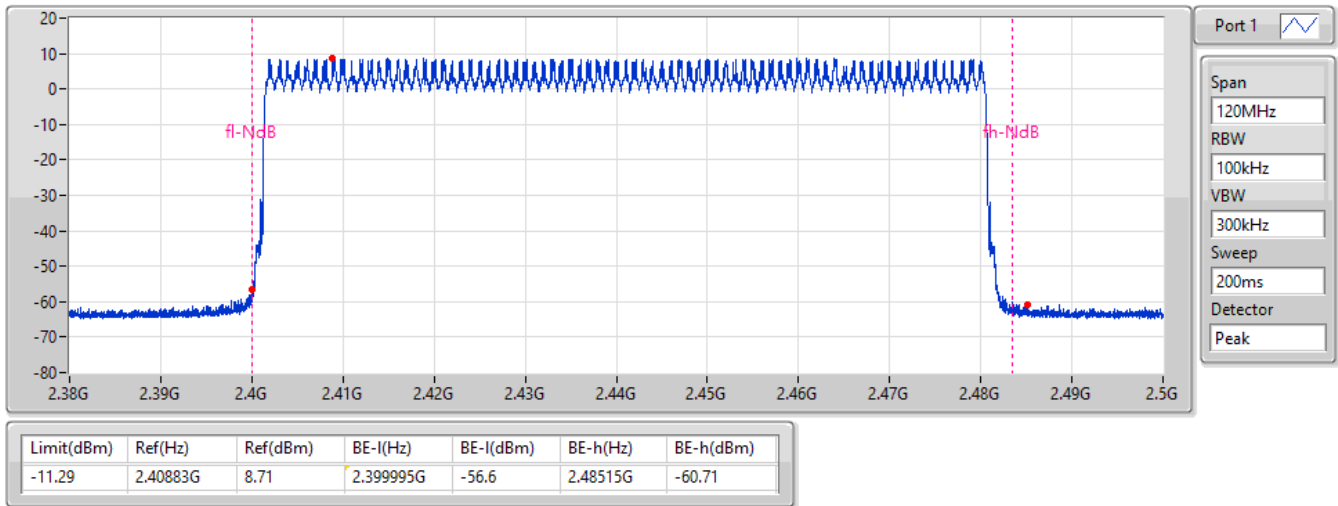


BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

17/02/2023

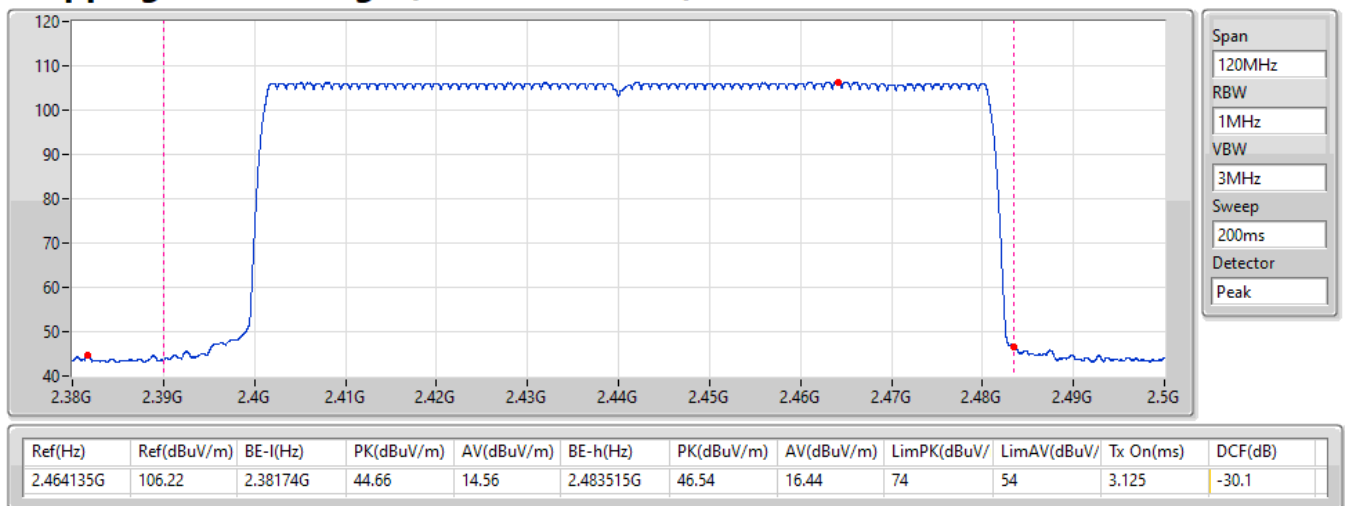


BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

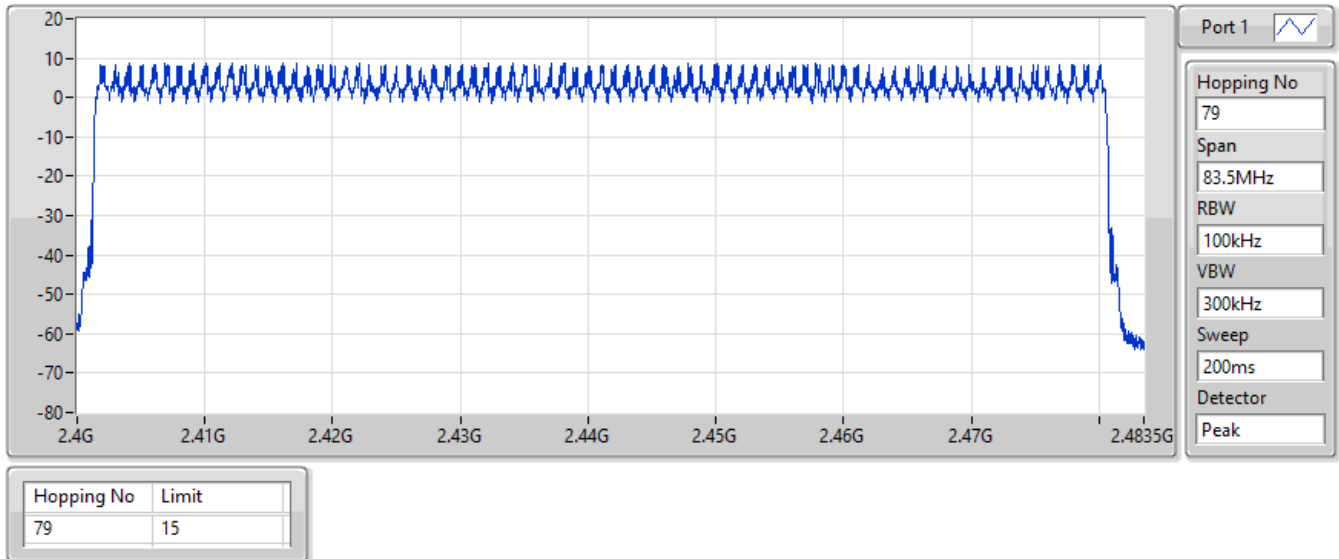
17/02/2023



BT-EDR(3Mbps) 2440MHz

Hopping-FS

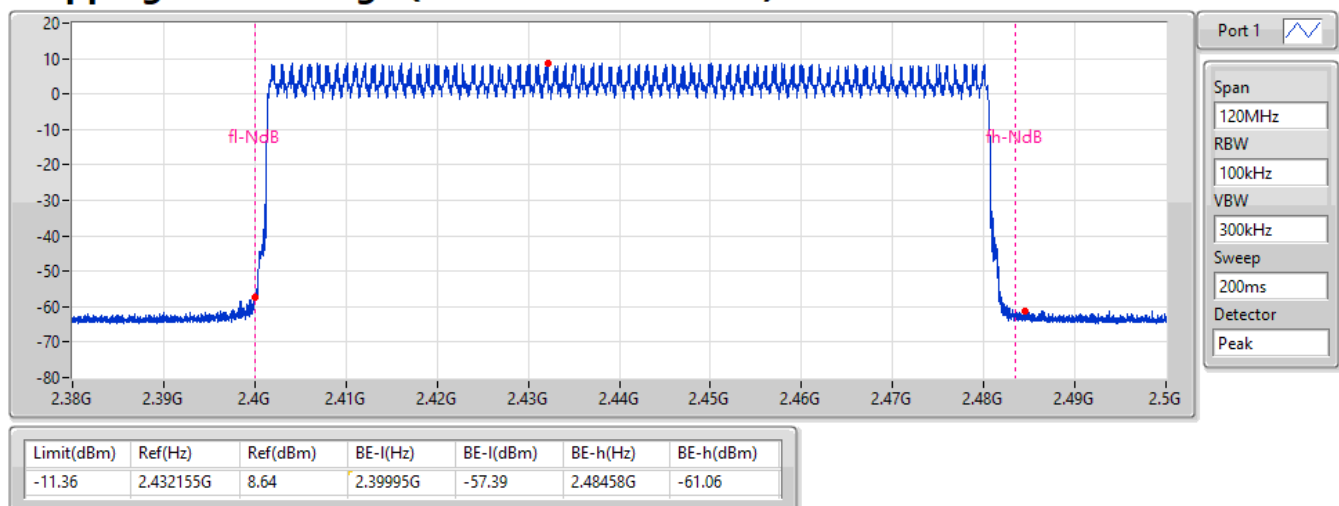
17/02/2023



BT-EDR(3Mbps) 2440MHz

Hopping Ch Bandedge (Non-restricted Band)

17/02/2023

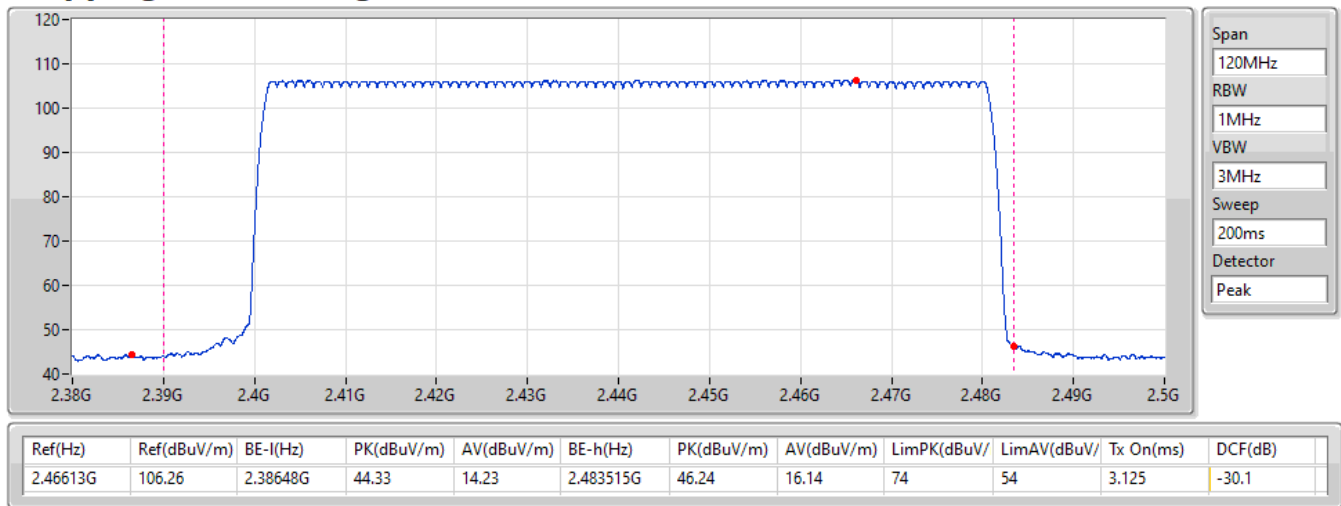


BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

17/02/2023





Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	307.40775m_DH5
BT-EDR(2Mbps)	307.8075m_DH5
BT-EDR(3Mbps)	307.99405m_DH5

Result

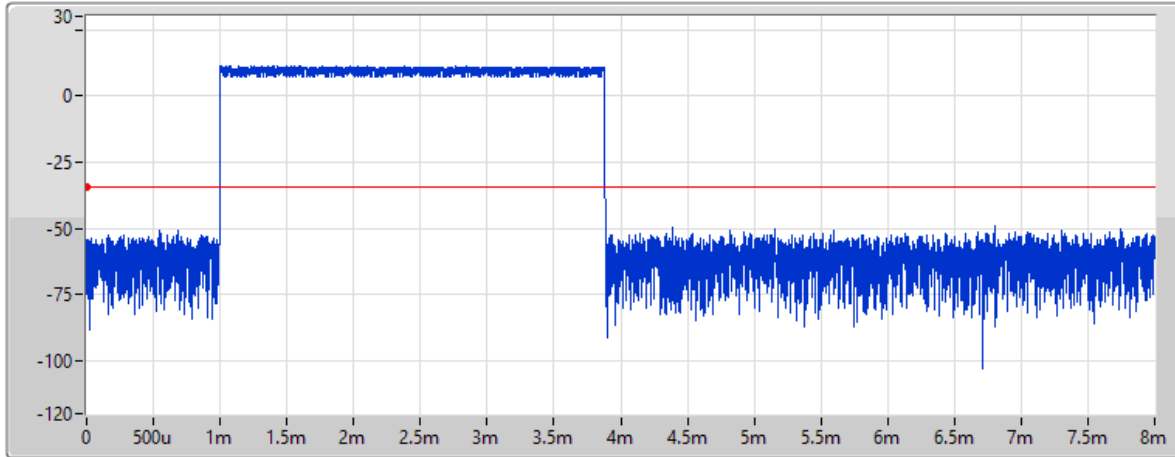
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	307.40775m_DH5	400m	2.88375m
2440MHz	Pass	8	153.69055m_DH5-AFH	400m	2.8835m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	307.8075m_DH5	400m	2.8875m
2440MHz	Pass	8	153.890425m_DH5-AFH	400m	2.88725m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	307.99405m_DH5	400m	2.88925m
2440MHz	Pass	8	153.997025m_DH5-AFH	400m	2.88925m

BT-BR(1Mbps)

Dwell-FS

2440MHz

17/02/2023



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.88375ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	307.40775m_DH5	400m	2.88375m

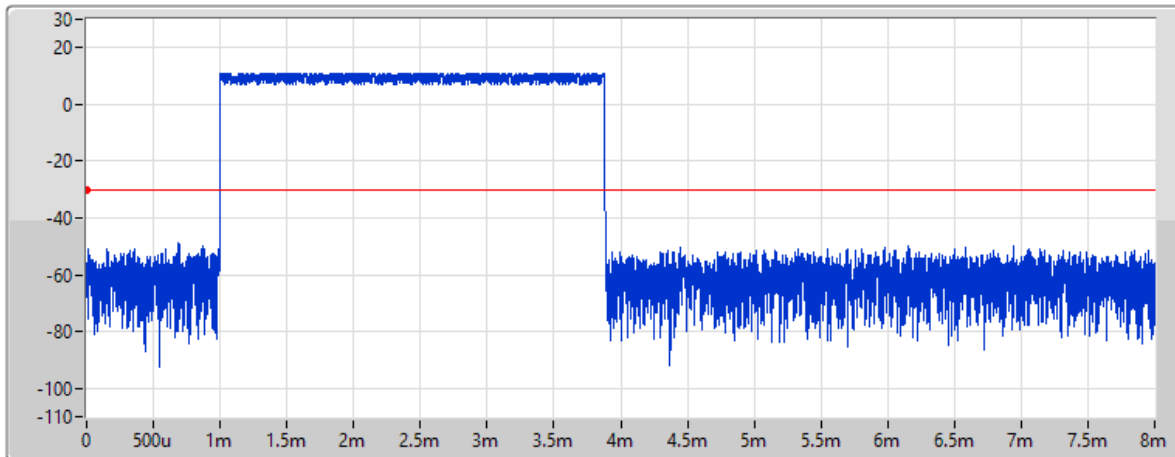
DH5

BT-BR(1Mbps)

Dwell-FS

2440MHz

17/02/2023



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.8835ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	153.69055m_DH5-AFH	400m	2.8835m

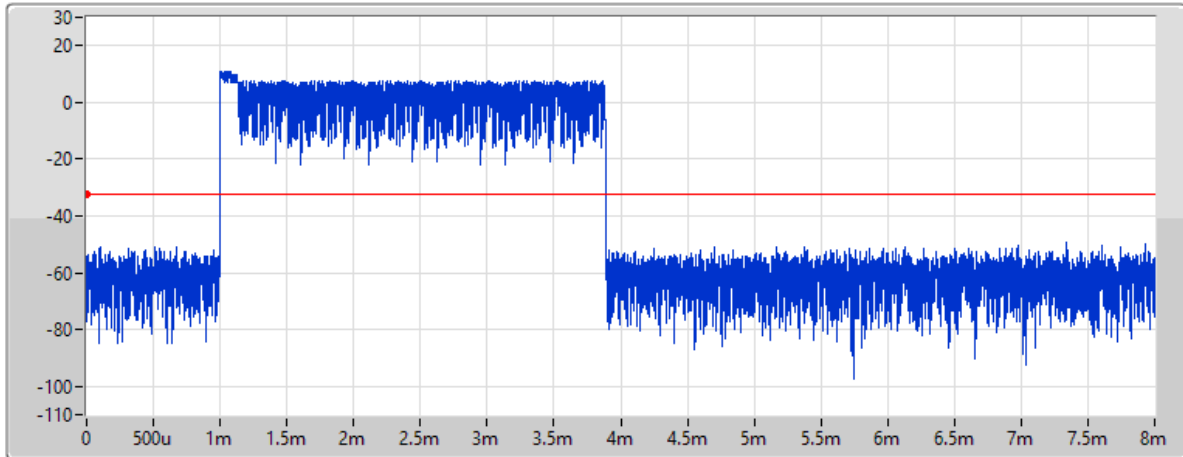
DH5-AFH

BT-EDR(2Mbps)

2440MHz

Dwell-FS

17/02/2023



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.8875ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	307.8075m_DH5	400m	2.8875m

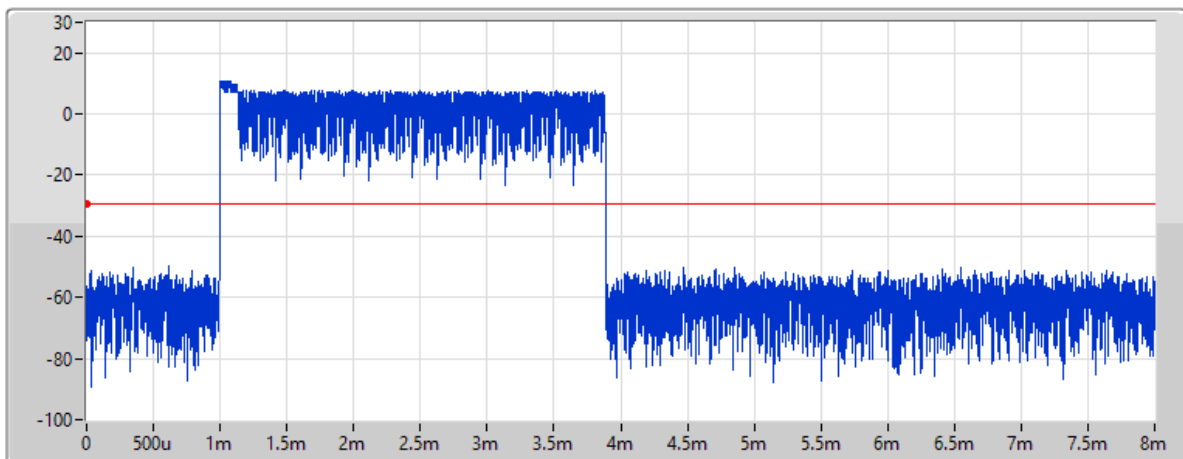
DH5

BT-EDR(2Mbps)

2440MHz

Dwell-FS

17/02/2023



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.88725ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	153.890425m_DH5-AFI	400m	2.88725m

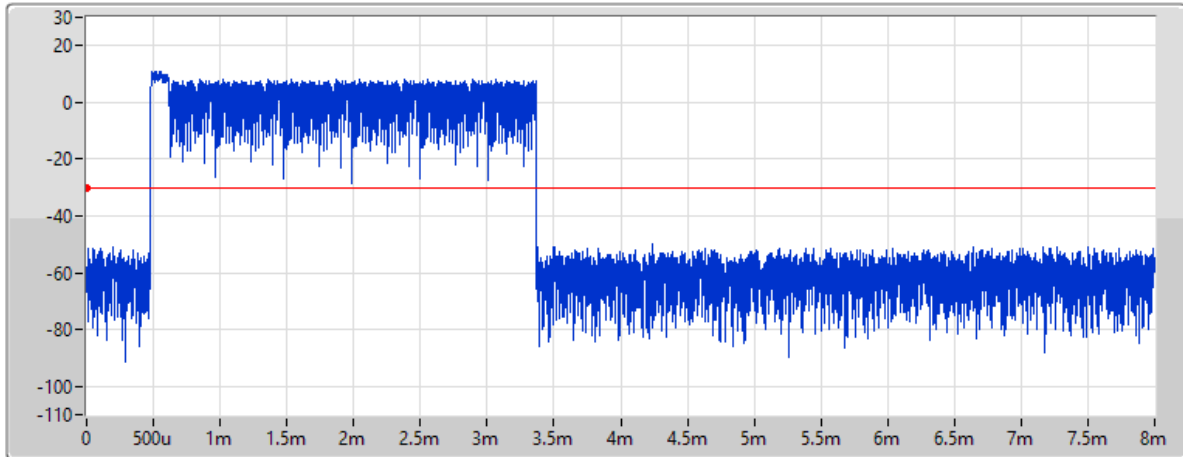
DH5-AFH

BT-EDR(3Mbps)

2440MHz

Dwell-FS

17/02/2023



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.88925ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	307.99405m_DH5	400m	2.88925m

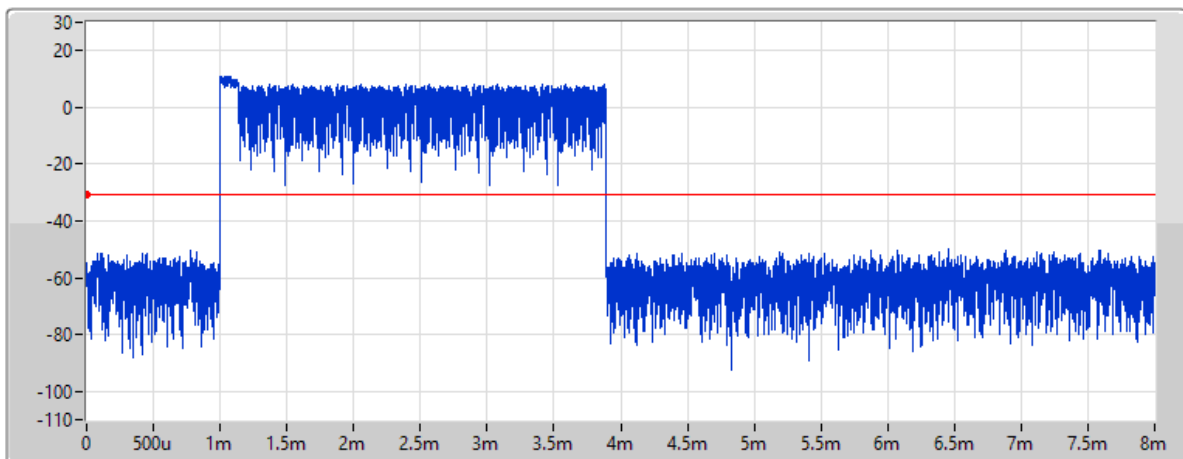
DH5

BT-EDR(3Mbps)

2440MHz

Dwell-FS

17/02/2023



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.88925ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	153.997025m_DH5-AF	400m	2.88925m

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	2.48016G	7.23	-12.77	52.33M	-53.24	2.39544G	-52.08	2.4G	-55.28	2.50222G	-51.88	6.61192G	-41.93	1
BT-EDR(2Mbps)	Pass	2.48016G	6.15	-13.85	833.7M	-53.74	2.39116G	-50.90	2.4G	-56.95	2.50294G	-52.21	6.61192G	-40.85	1
BT-EDR(3Mbps)	Pass	2.40167G	6.90	-13.10	49.98M	-53.59	2.3908G	-51.37	2.4G	-54.95	2.50298G	-51.77	6.40383G	-43.01	1

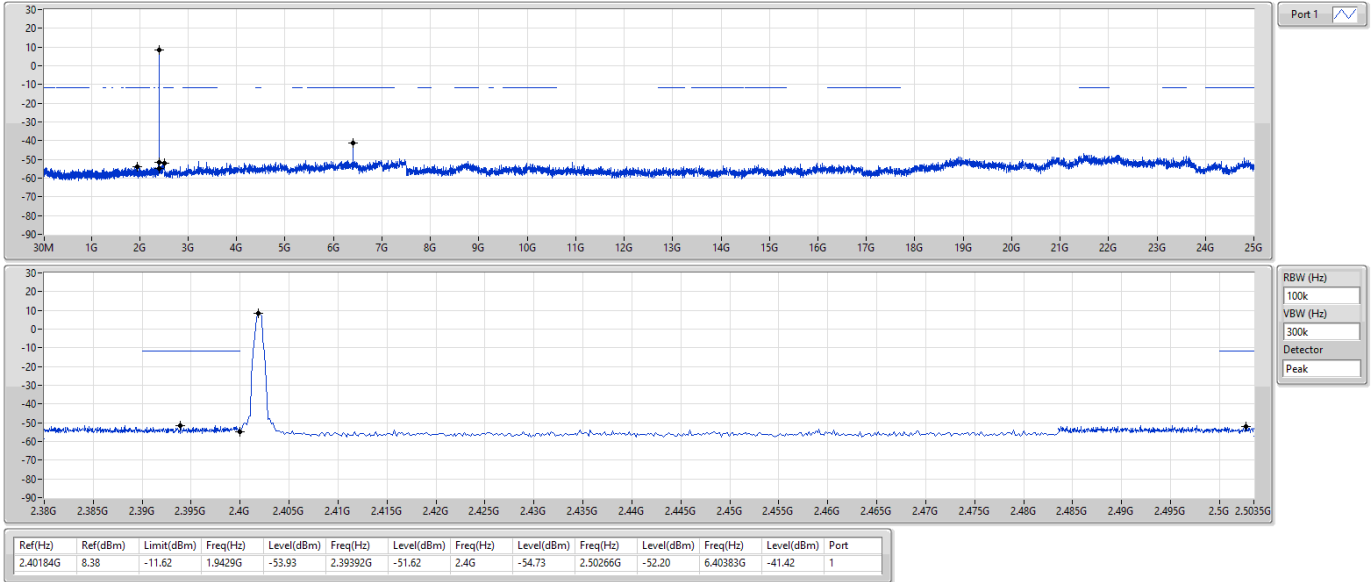
Result

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	2.40184G	8.38	-11.62	1.9429G	-53.93	2.39392G	-51.62	2.4G	-54.73	2.50266G	-52.20	6.40383G	-41.42	1
2440MHz	Pass	2.43975G	8.41	-11.59	31.18M	-54.17	2.39916G	-51.42	2.4G	-56.02	2.50106G	-51.53	6.50506G	-42.59	1
2480MHz	Pass	2.48016G	7.23	-12.77	52.33M	-53.24	2.39544G	-52.08	2.4G	-55.28	2.50222G	-51.88	6.61192G	-41.93	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	7.81	-12.19	2.10623G	-53.44	2.39664G	-51.29	2.4G	-53.43	2.50262G	-52.47	6.40383G	-43.00	1
2440MHz	Pass	2.44008G	8.25	-11.75	2.05218G	-53.36	2.39508G	-51.42	2.4G	-56.74	2.50118G	-52.11	6.50506G	-41.47	1
2480MHz	Pass	2.48016G	6.15	-13.85	833.7M	-53.74	2.39116G	-50.90	2.4G	-56.95	2.50294G	-52.21	6.61192G	-40.85	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40167G	6.90	-13.10	49.98M	-53.59	2.3908G	-51.37	2.4G	-54.95	2.50298G	-51.77	6.40383G	-43.01	1
2440MHz	Pass	2.43991G	8.06	-11.94	2.08625G	-53.11	2.39696G	-51.70	2.4G	-56.27	2.50322G	-51.75	6.50506G	-42.00	1
2480MHz	Pass	2.48033G	8.00	-12.00	2.08625G	-54.23	2.3974G	-52.23	2.4G	-56.50	2.50062G	-52.16	6.61192G	-42.14	1

BT-BR(1Mbps)

CSEndB-FS

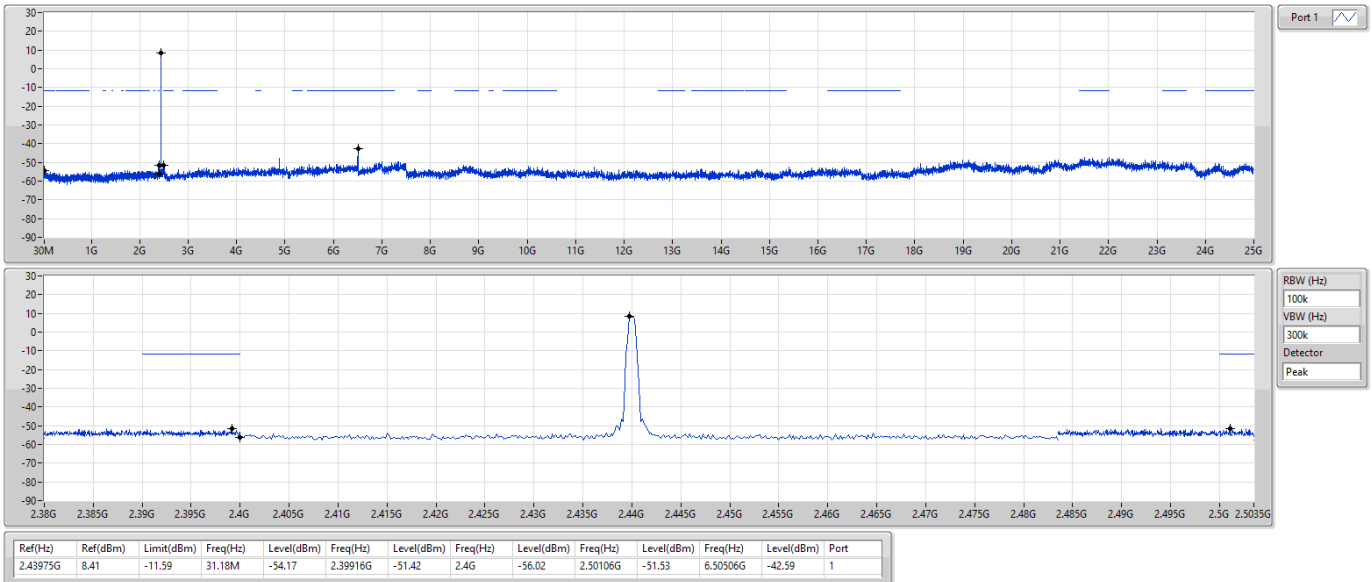
2402MHz



BT-BR(1Mbps)

CSEndB-FS

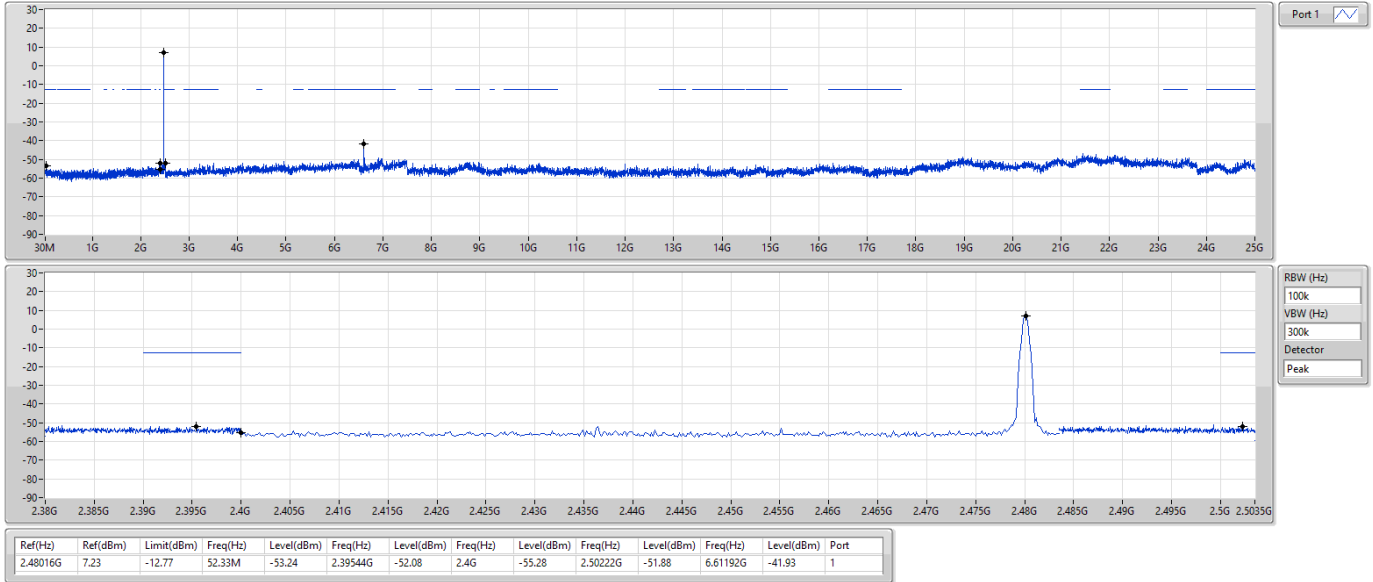
2440MHz



BT-BR(1Mbps)

CSEndB-FS

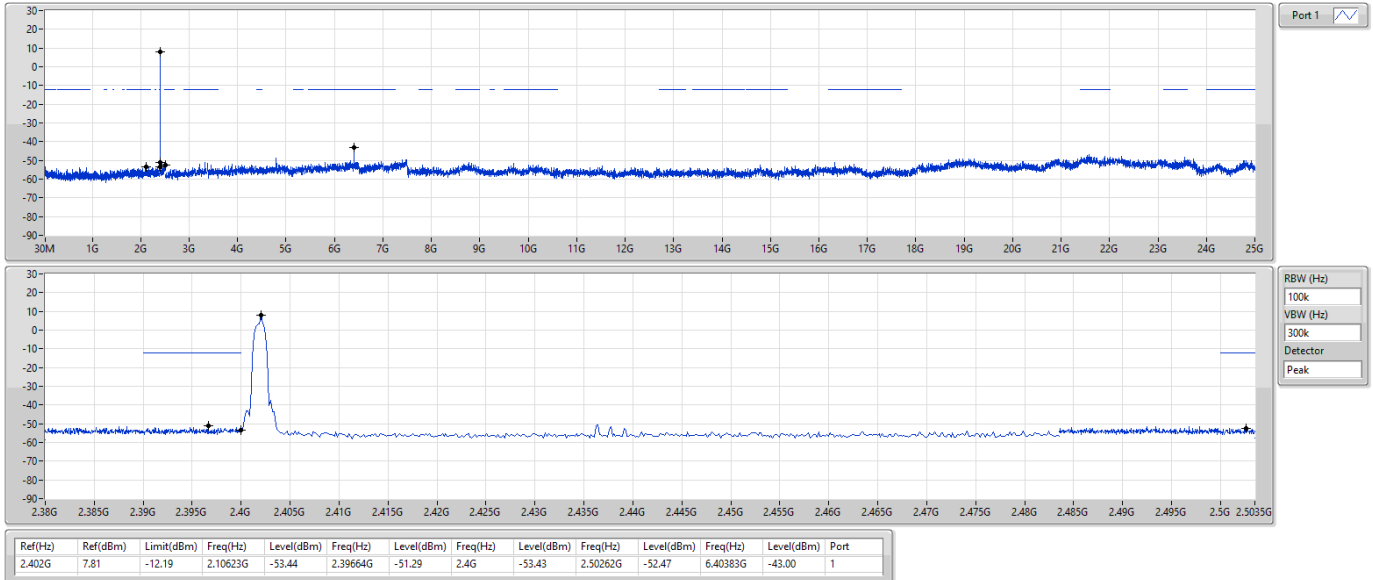
2480MHz



BT-EDR(2Mbps)

CSEndB-FS

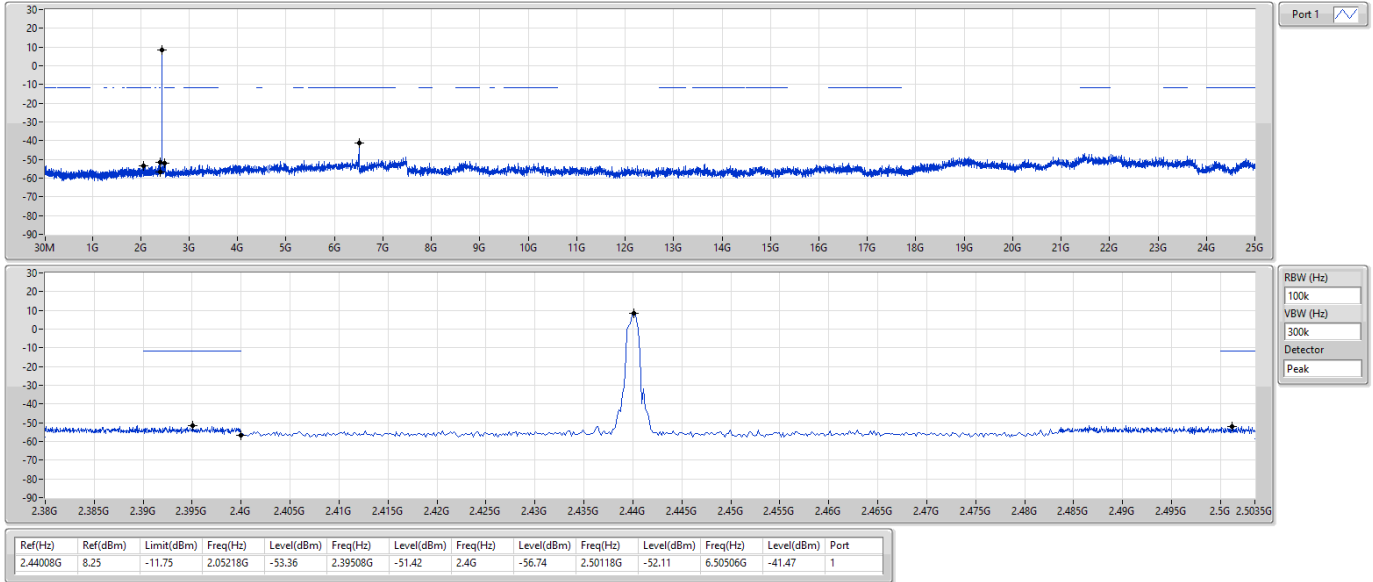
2402MHz



BT-EDR(2Mbps)

CSEndB-FS

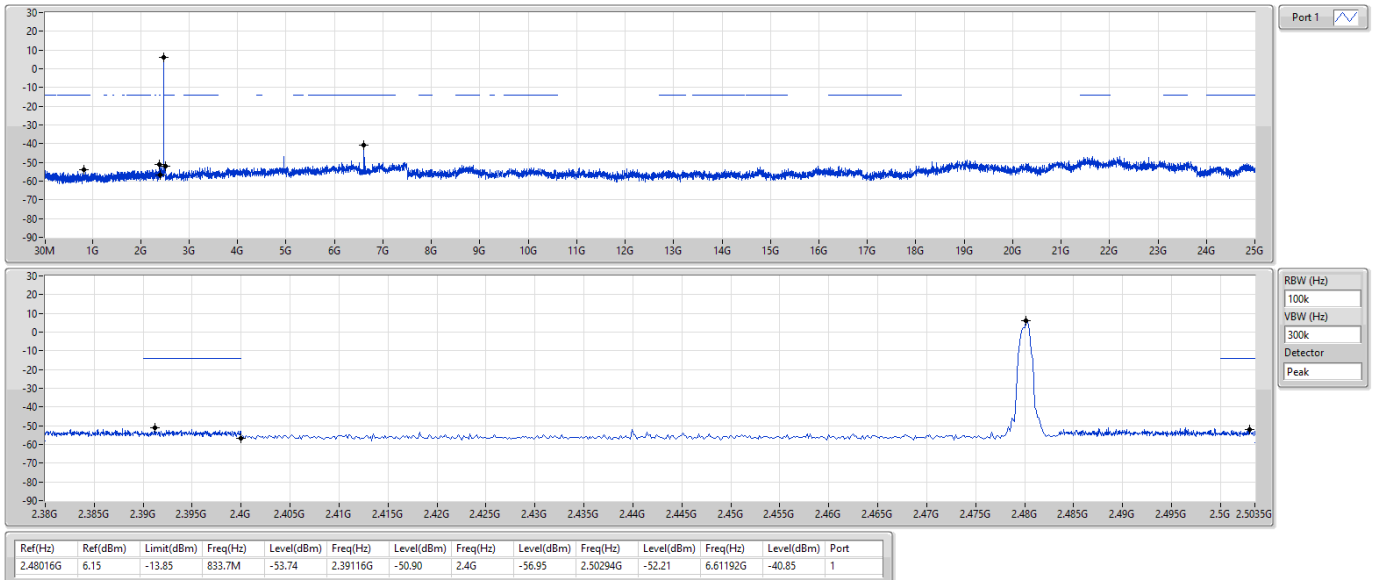
2440MHz



BT-EDR(2Mbps)

CSEndB-FS

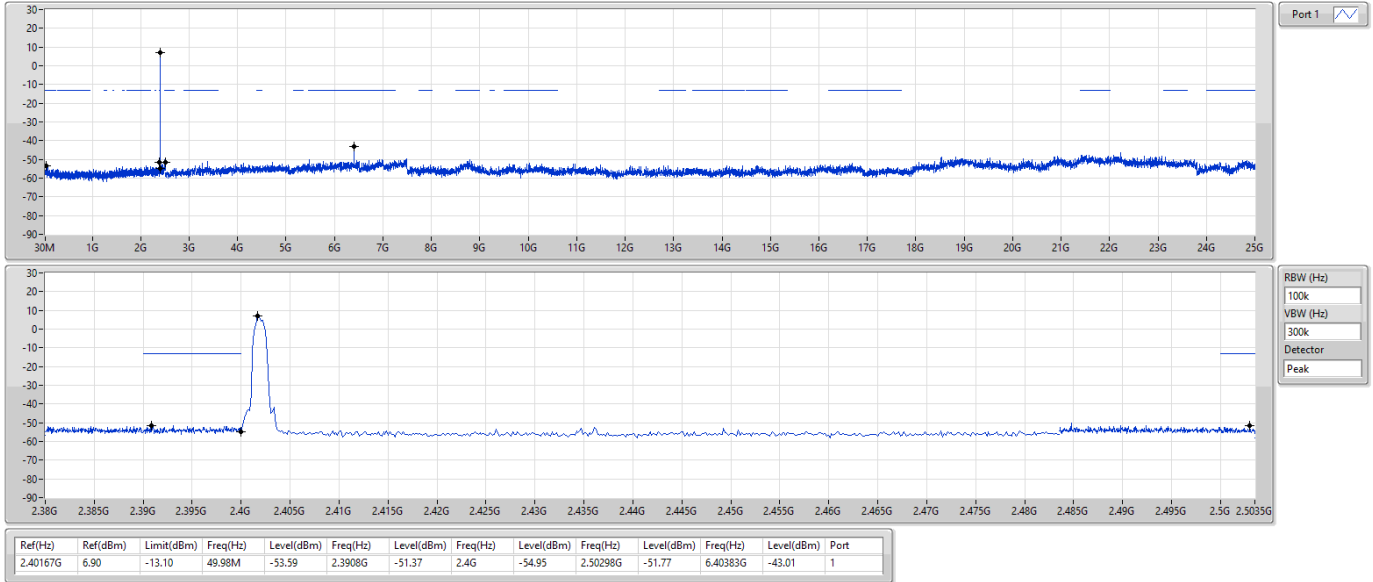
2480MHz



BT-EDR(3Mbps)

CSEndB-FS

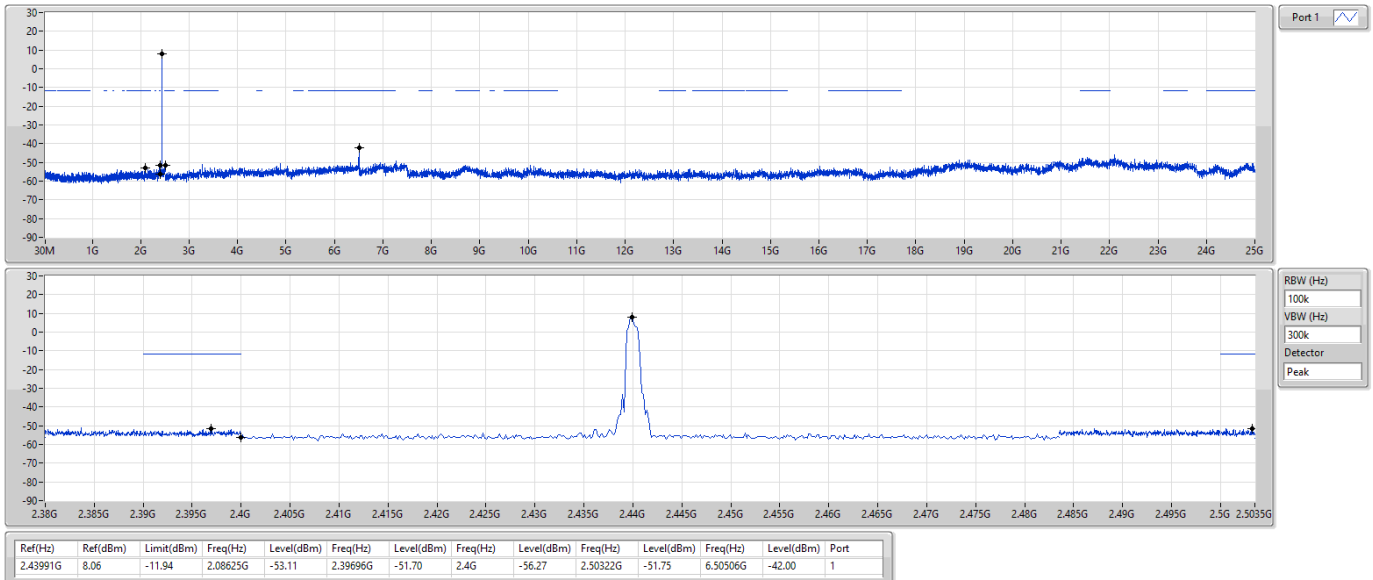
2402MHz



BT-EDR(3Mbps)

CSEndB-FS

2440MHz

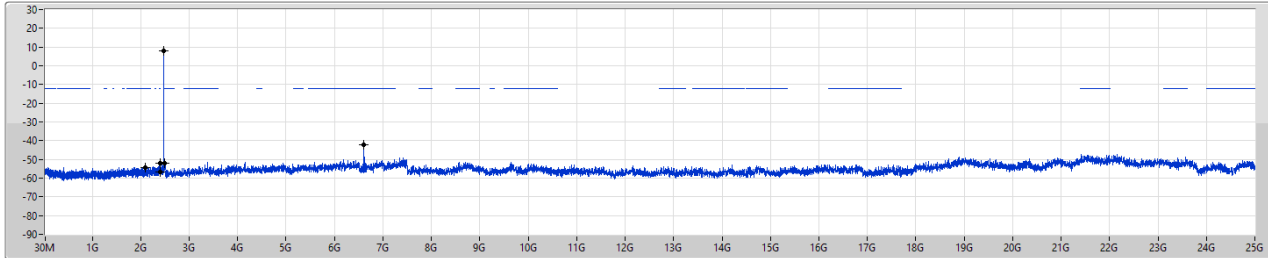


BT-EDR(3Mbps)

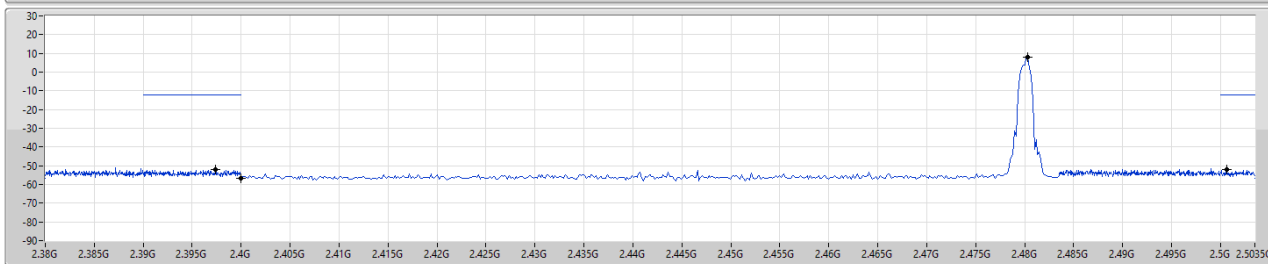
CSEndB-FS

2480MHz

17/02/2023



Port 1

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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.48033G	8.00	-12.00	2.08625G	-54.23	2.3974G	-52.23	2.4G	-56.50	2.50062G	-52.16	6.61192G	-42.14	1



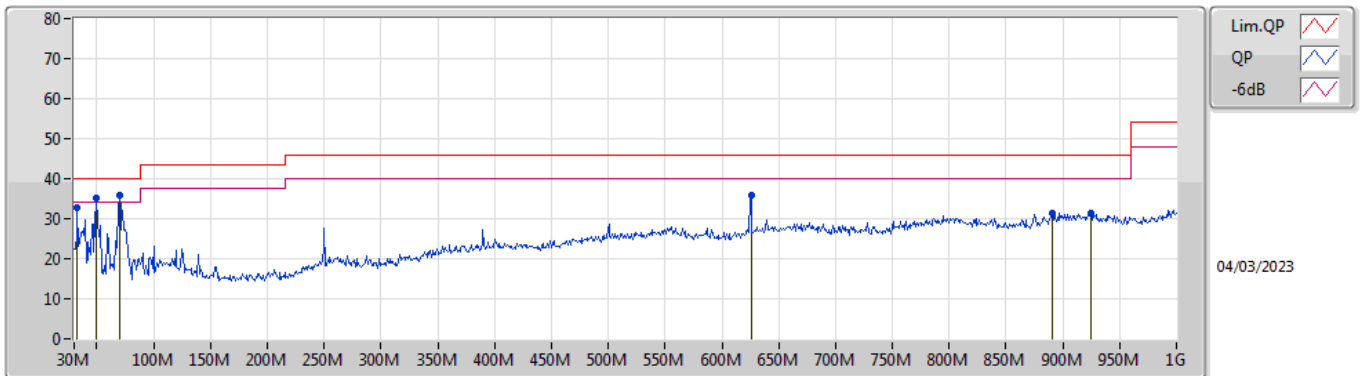
Radiated Emissions below 1GHz

Appendix G.1

Summary

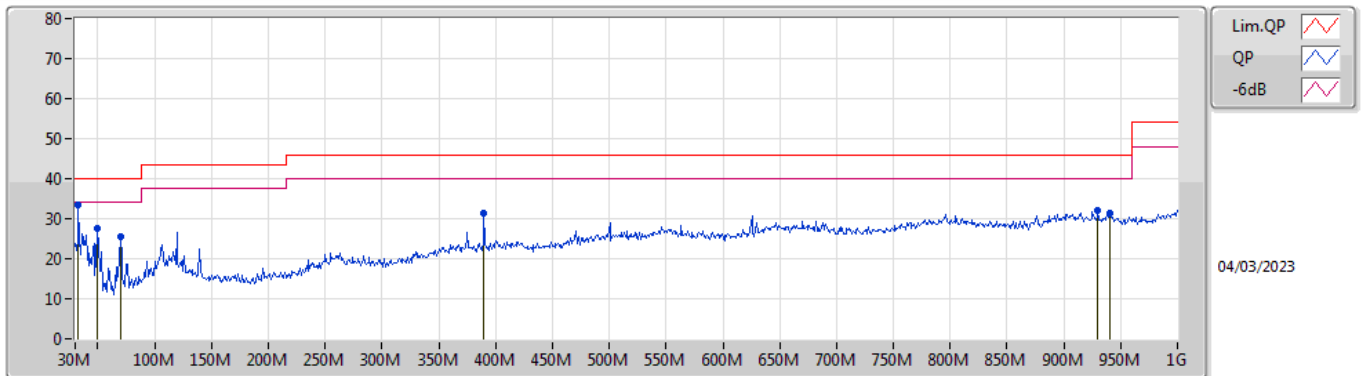
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	69.77M	35.69	40.00	-4.31	Vertical

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	32.91M	32.93	40.00	-7.07	-8.17	3	Vertical	340	1.50	-	41.10	22.41	1.05	31.63
PK	49.4M	35.03	40.00	-4.97	-16.33	3	Vertical	261	1.50	-	51.36	14.28	1.25	31.86
PK	69.77M	35.69	40.00	-4.31	-18.34	3	Vertical	357	1.25	"Worst"	54.03	12.18	1.45	31.97
PK	625.58M	35.90	46.00	-10.10	-3.47	3	Vertical	282	1.00	-	39.37	24.53	4.52	32.52
PK	890.39M	31.25	46.00	-14.75	-0.73	3	Vertical	86	1.00	-	31.98	26.14	5.62	32.49
PK	925.31M	31.21	46.00	-14.79	-0.63	3	Vertical	86	1.00	-	31.84	26.17	5.68	32.48

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	32.91M	33.54	40.00	-6.46	-8.17	3	Horizontal	159	1.00	"Worst"	41.71	22.41	1.05	31.63
PK	49.4M	27.56	40.00	-12.44	-16.33	3	Horizontal	291	1.00	-	43.89	14.28	1.25	31.86
PK	69.77M	25.42	40.00	-14.58	-18.34	3	Horizontal	0	1.25	-	43.76	12.18	1.45	31.97
PK	389.87M	31.50	46.00	-14.50	-7.50	3	Horizontal	145	1.00	-	39.00	21.16	3.50	32.16
PK	930M	31.97	46.00	-14.03	-0.55	3	Horizontal	238	1.50	-	32.52	26.25	5.68	32.48
PK	940.83M	31.28	46.00	-14.72	-0.41	3	Horizontal	176	1.00	-	31.69	26.38	5.69	32.48

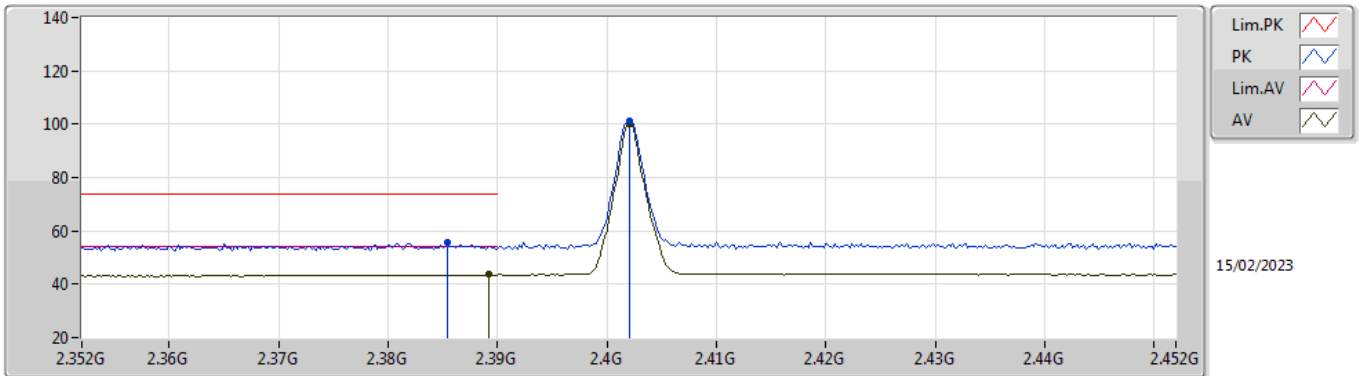


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	AV	2.4835G	50.80	54.00	-3.20	3	Horizontal	330	2.53	-

BT-BR(1Mbps)

2402MHz_TX

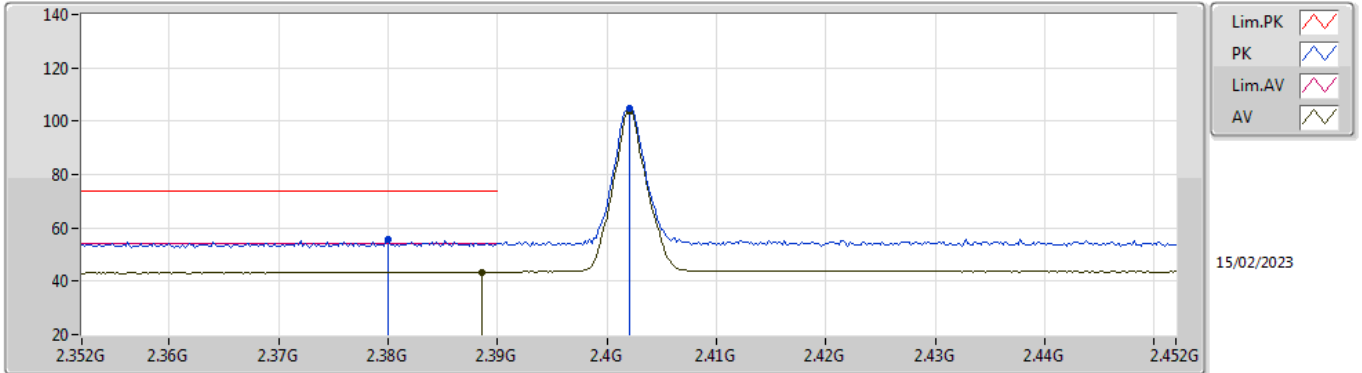


EUT V_1TX
Setting 7
02-E-W-4

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	2.3854G	55.52	74.00	-18.48	23.96	3	Vertical	5	2.38	-	28.37	3.19	-	
AV	2.3892G	43.55	54.00	-10.45	11.98	3	Vertical	5	2.38	-	28.38	3.19	-	
PK	2.402G	101.04	Inf	-Inf	69.44	3	Vertical	5	2.38	-	28.40	3.20	-	
AV	2.402G	100.11	Inf	-Inf	68.51	3	Vertical	5	2.38	-	28.40	3.20	-	

BT-BR(1Mbps)

2402MHz_TX

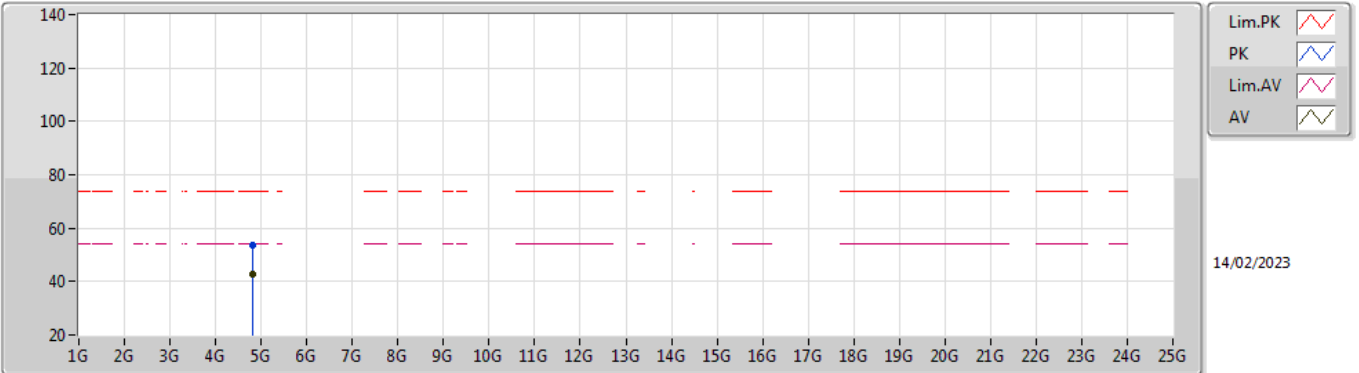


EUT_V_1TX
Setting 7
02-E-W-4

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	2.38G	55.69	74.00	-18.31	24.14	3	Horizontal	337	2.02	-	28.36	3.19	-	
AV	2.3886G	43.48	54.00	-10.52	11.91	3	Horizontal	337	2.02	-	28.38	3.19	-	
PK	2.402G	104.76	Inf	-Inf	73.16	3	Horizontal	337	2.02	-	28.40	3.20	-	
AV	2.402G	103.88	Inf	-Inf	72.28	3	Horizontal	337	2.02	-	28.40	3.20	-	

BT-BR(1Mbps)

2402MHz_TX

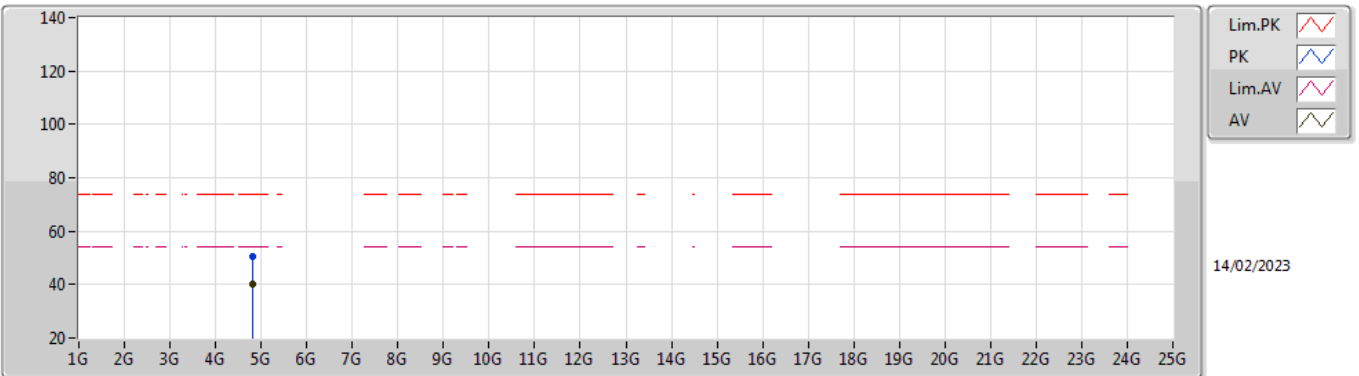


EUT X_1TX
Setting 7
02-E-W-4

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	4.80228G	53.47	74.00	-20.53	45.87	3	Vertical	53	2.30	-	32.81	5.60	30.81	
AV	4.80222G	42.70	54.00	-11.30	35.10	3	Vertical	53	2.30	-	32.81	5.60	30.81	

BT-BR(1Mbps)

2402MHz_TX

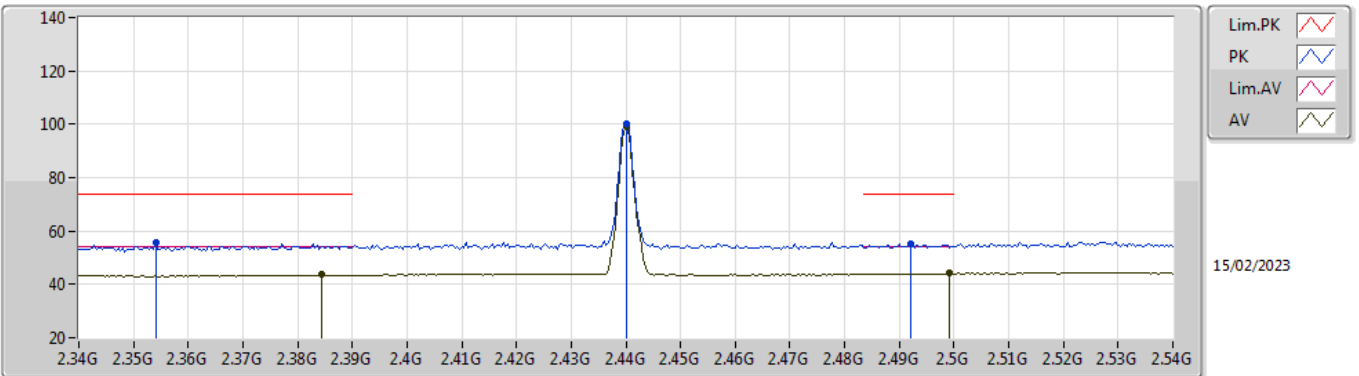


EUT X_1TX
Setting 7
02-E-W-4

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	4.80212G	50.64	74.00	-23.36	43.04	3	Horizontal	234	1.80	-	32.81	5.60	30.81
AV	4.80218G	40.00	54.00	-14.00	32.40	3	Horizontal	234	1.80	-	32.81	5.60	30.81

BT-BR(1Mbps)

2440MHz_TX

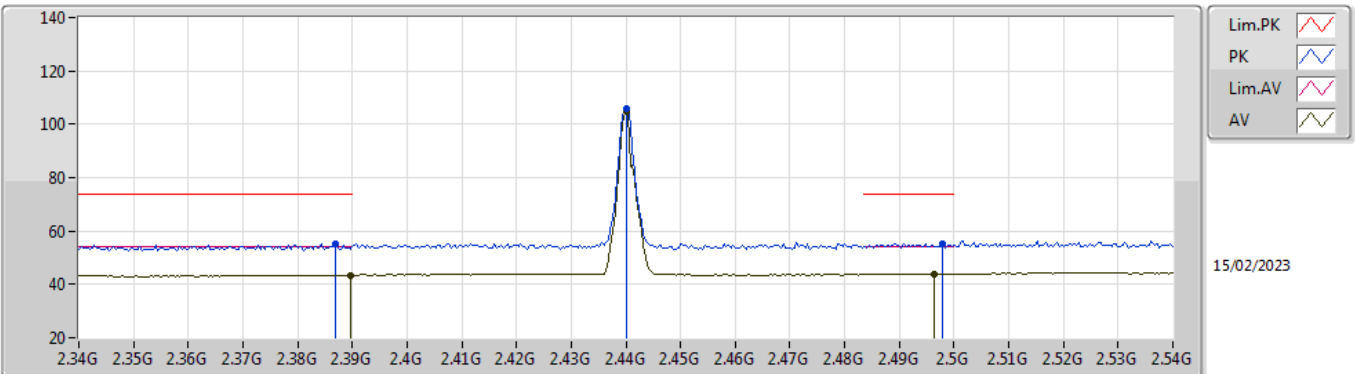


EUT V_1TX
Setting 7
02-E-W-4

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	2.354G	55.44	74.00	-18.56	23.95	3	Vertical	10	2.29	-	28.31	3.18	-	
AV	2.3844G	43.56	54.00	-10.44	12.00	3	Vertical	10	2.29	-	28.37	3.19	-	
PK	2.44G	100.27	Inf	-Inf	68.65	3	Vertical	10	2.29	-	28.40	3.22	-	
AV	2.44G	99.34	Inf	-Inf	67.72	3	Vertical	10	2.29	-	28.40	3.22	-	
PK	2.492G	55.38	74.00	-18.62	23.56	3	Vertical	10	2.29	-	28.57	3.25	-	
AV	2.4992G	44.21	54.00	-9.79	12.36	3	Vertical	10	2.29	-	28.60	3.25	-	

BT-BR(1Mbps)

2440MHz_TX

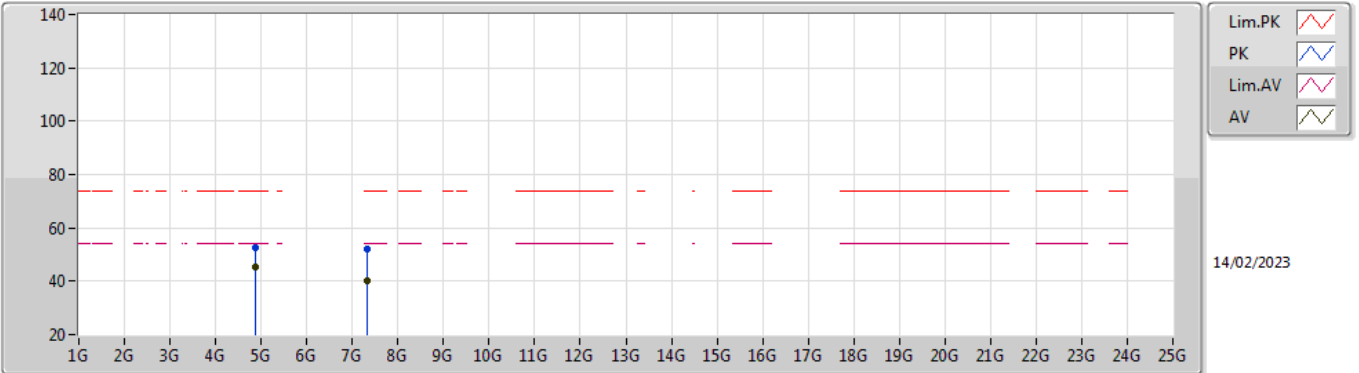


EUT V_1TX
Setting 7
02-E-W-4

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	2.3868G	55.09	74.00	-18.91	23.53	3	Horizontal	330	2.28	-	28.37	3.19	-
AV	2.3896G	43.47	54.00	-10.53	11.90	3	Horizontal	330	2.28	-	28.38	3.19	-
PK	2.44G	105.78	Inf	-Inf	74.16	3	Horizontal	330	2.28	-	28.40	3.22	-
AV	2.44G	104.93	Inf	-Inf	73.31	3	Horizontal	330	2.28	-	28.40	3.22	-
PK	2.498G	55.14	74.00	-18.86	23.30	3	Horizontal	330	2.28	-	28.59	3.25	-
AV	2.4964G	44.03	54.00	-9.97	12.19	3	Horizontal	330	2.28	-	28.59	3.25	-

BT-BR(1Mbps)

2440MHz_TX

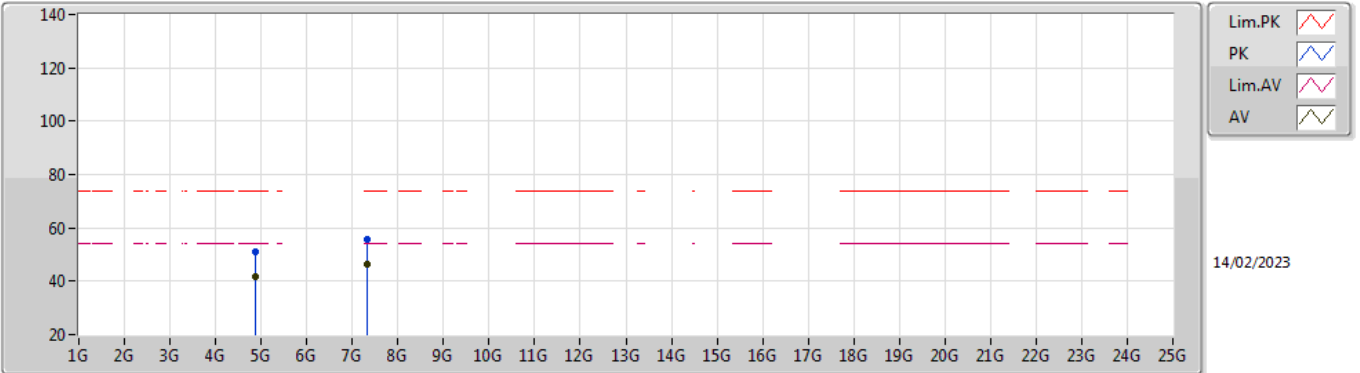


EUT_X_1TX
Setting 7
02-E-W-4

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	4.87986G	52.83	74.00	-21.17	44.81	3	Vertical	53	2.24	-	33.16	5.64	30.78	
AV	4.87994G	45.29	54.00	-8.71	37.27	3	Vertical	53	2.24	-	33.16	5.64	30.78	
PK	7.32051G	51.88	74.00	-22.12	40.53	3	Vertical	299	1.80	-	36.44	6.84	31.93	
AV	7.31986G	40.31	54.00	-13.69	28.96	3	Vertical	299	1.80	-	36.44	6.84	31.93	

BT-BR(1Mbps)

2440MHz_TX

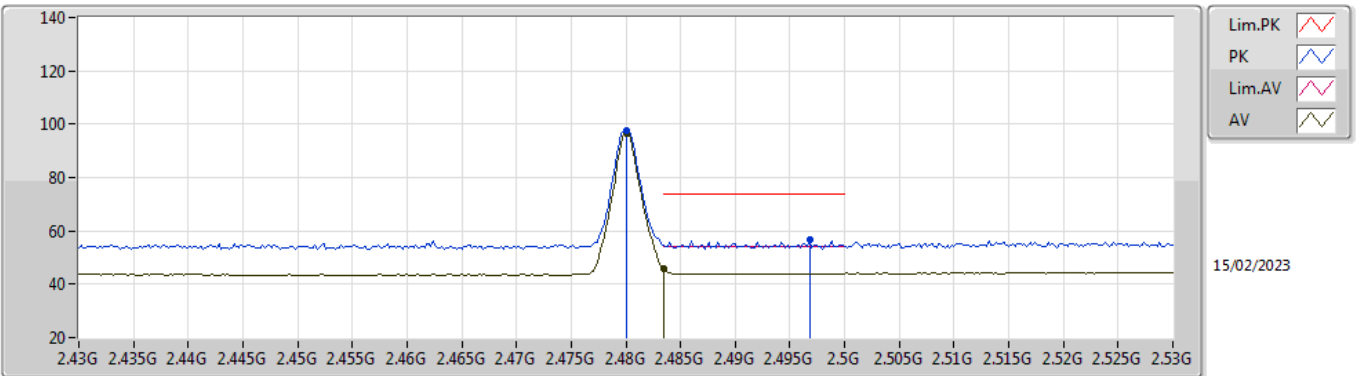


EUT X_1TX
Setting 7
02-E-W-4

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	4.87834G	51.05	74.00	-22.95	43.03	3	Horizontal	344	1.67	-	33.16	5.64	30.78
AV	4.88G	41.78	54.00	-12.22	33.76	3	Horizontal	344	1.67	-	33.16	5.64	30.78
PK	7.32003G	55.50	74.00	-18.50	44.15	3	Horizontal	343	2.47	-	36.44	6.84	31.93
AV	7.32005G	46.52	54.00	-7.48	35.17	3	Horizontal	343	2.47	-	36.44	6.84	31.93

BT-BR(1Mbps)

2480MHz_TX

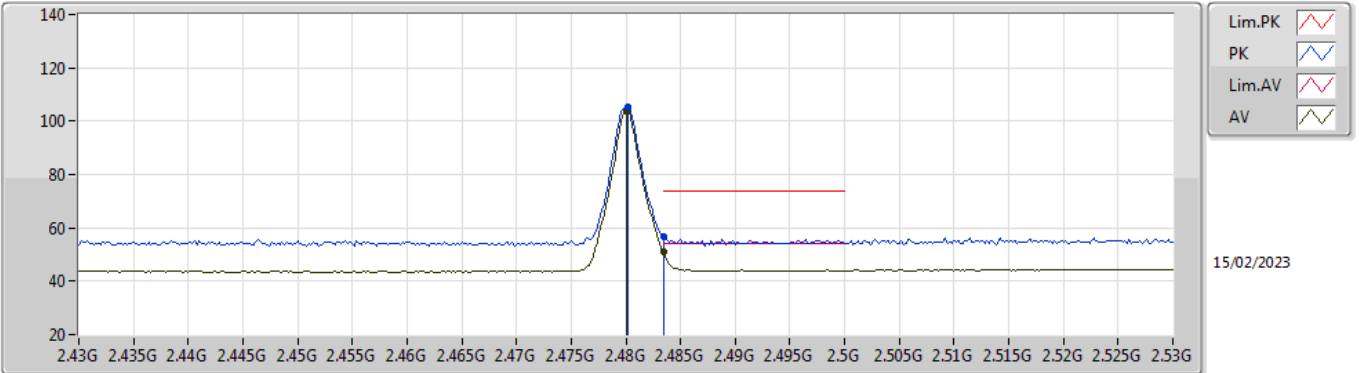


EUT_V_1TX
Setting 6
02-E-W-4

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	2.48G	97.78	Inf	-Inf	66.02	3	Vertical	19	2.46	-	28.52	3.24	-	
AV	2.48G	96.78	Inf	-Inf	65.02	3	Vertical	19	2.46	-	28.52	3.24	-	
PK	2.4968G	56.47	74.00	-17.53	24.63	3	Vertical	19	2.46	-	28.59	3.25	-	
AV	2.4835G	45.78	54.00	-8.22	14.01	3	Vertical	19	2.46	-	28.53	3.24	-	

BT-BR(1Mbps)

2480MHz_TX

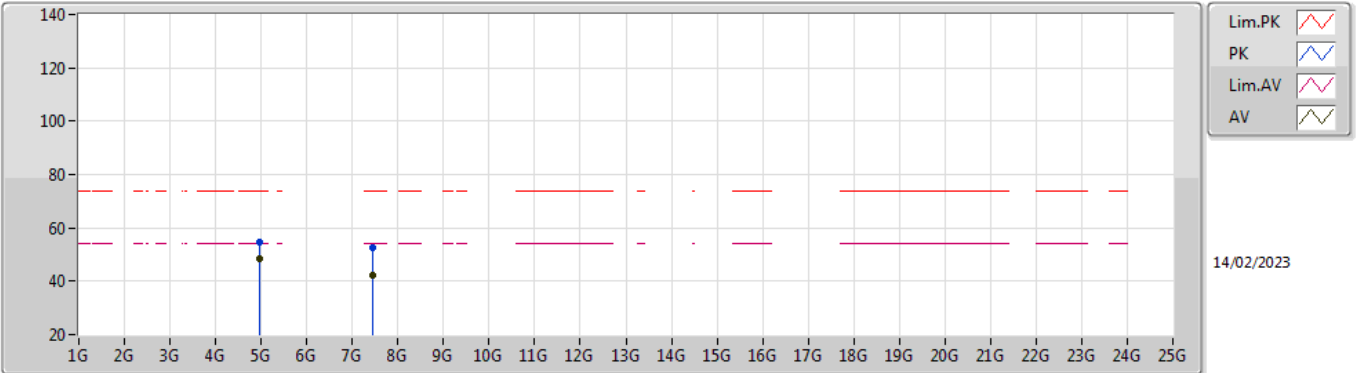


EUT V_1TX
Setting 6
02-E-W-4

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	2.4802G	105.09	Inf	-Inf	73.33	3	Horizontal	330	2.53	-	28.52	3.24	-	
AV	2.48G	103.97	Inf	-Inf	72.21	3	Horizontal	330	2.53	-	28.52	3.24	-	
PK	2.4835G	56.83	74.00	-17.17	25.06	3	Horizontal	330	2.53	-	28.53	3.24	-	
AV	2.4835G	50.80	54.00	-3.20	19.03	3	Horizontal	330	2.53	-	28.53	3.24	-	

BT-BR(1Mbps)

2480MHz_TX

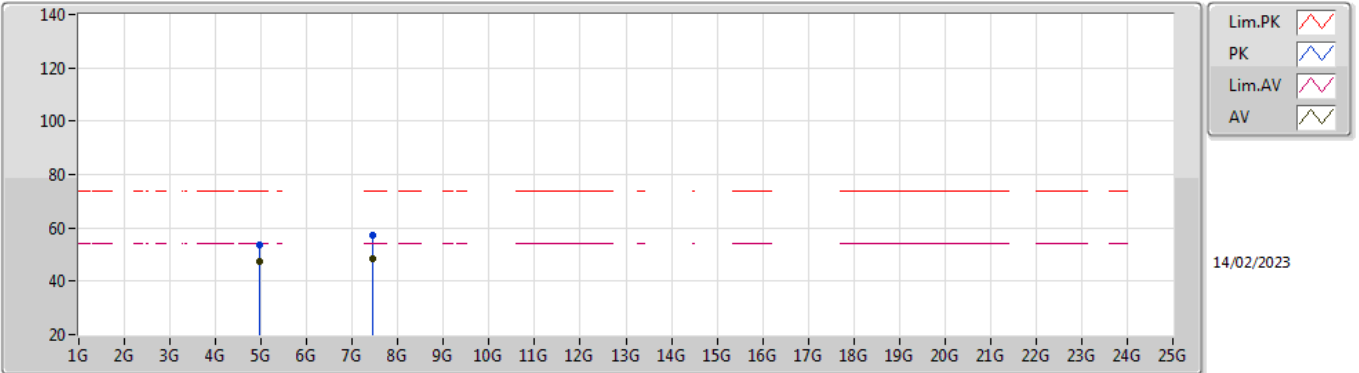


EUT X_1TX
Setting 6
02-E-W-4

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	4.96007G	54.57	74.00	-19.43	46.32	3	Vertical	59	2.00	-	33.32	5.68	30.75	
AV	4.96003G	48.68	54.00	-5.32	40.43	3	Vertical	59	2.00	-	33.32	5.68	30.75	
PK	7.43954G	52.74	74.00	-21.26	41.39	3	Vertical	208	2.17	-	36.50	6.84	31.99	
AV	7.43996G	42.26	54.00	-11.74	30.92	3	Vertical	208	2.17	-	36.50	6.84	32.00	

BT-BR(1Mbps)

2480MHz_TX

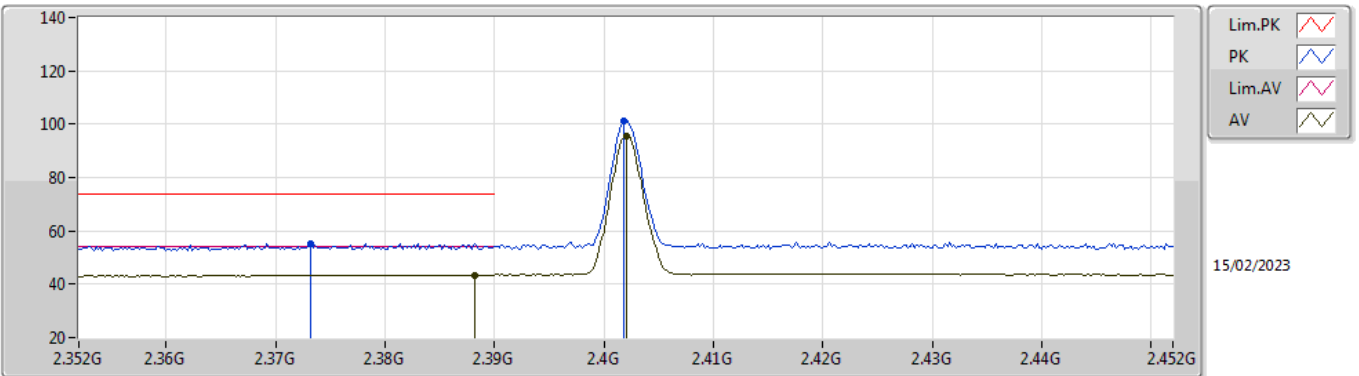


EUT X_1TX
Setting 6
02-E-W-4

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	4.96008G	53.78	74.00	-20.22	45.53	3	Horizontal	343	1.82	-	33.32	5.68	30.75
AV	4.96002G	47.64	54.00	-6.36	39.39	3	Horizontal	343	1.82	-	33.32	5.68	30.75
PK	7.43997G	57.31	74.00	-16.69	45.97	3	Horizontal	344	2.49	-	36.50	6.84	32.00
AV	7.4401G	48.69	54.00	-5.31	37.35	3	Horizontal	344	2.49	-	36.50	6.84	32.00

BT-EDR(3Mbps)

2402MHz_TX

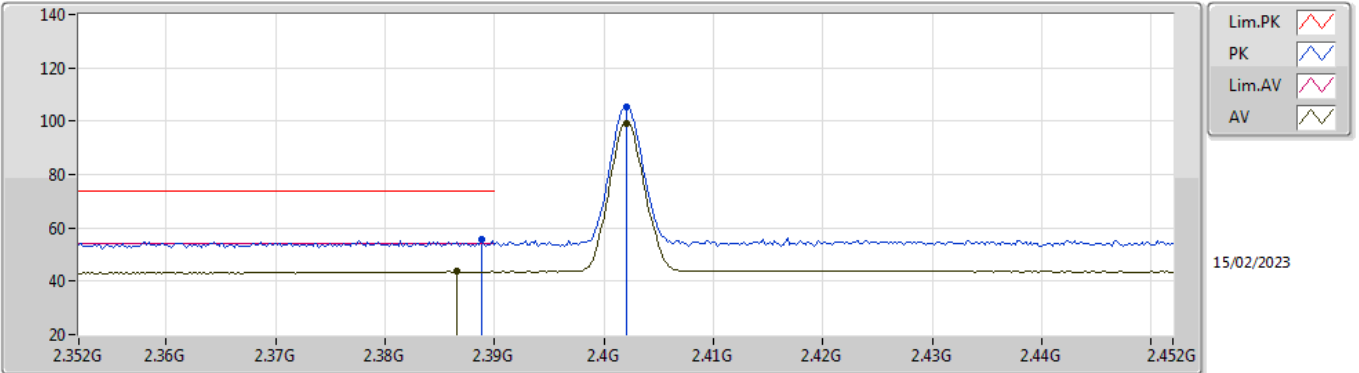


EUT V_1TX
Setting 7
02-E-W-4

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	2.3732G	55.33	74.00	-18.67	23.79	3	Vertical	3	2.36	-	28.35	3.19	-	
AV	2.3882G	43.47	54.00	-10.53	11.90	3	Vertical	3	2.36	-	28.38	3.19	-	
PK	2.4018G	101.25	Inf	-Inf	69.65	3	Vertical	3	2.36	-	28.40	3.20	-	
AV	2.402G	95.30	Inf	-Inf	63.70	3	Vertical	3	2.36	-	28.40	3.20	-	

BT-EDR(3Mbps)

2402MHz_TX

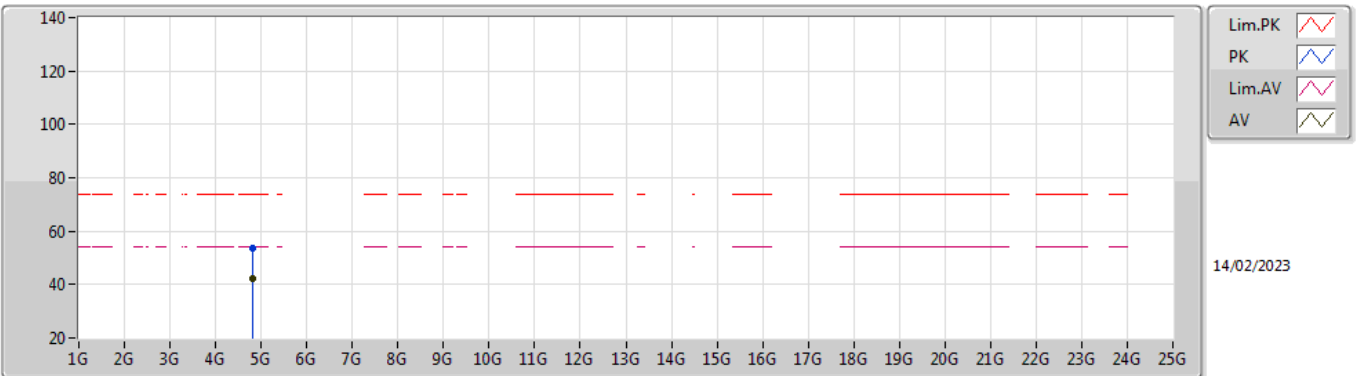


EUT V_1TX
Setting 7
02-E-W-4

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	2.3888G	55.73	74.00	-18.27	24.16	3	Horizontal	334	2.04	-	28.38	3.19	-	
AV	2.3866G	43.57	54.00	-10.43	12.01	3	Horizontal	334	2.04	-	28.37	3.19	-	
PK	2.402G	105.09	Inf	-Inf	73.49	3	Horizontal	334	2.04	-	28.40	3.20	-	
AV	2.402G	99.19	Inf	-Inf	67.59	3	Horizontal	334	2.04	-	28.40	3.20	-	

BT-EDR(3Mbps)

2402MHz_TX

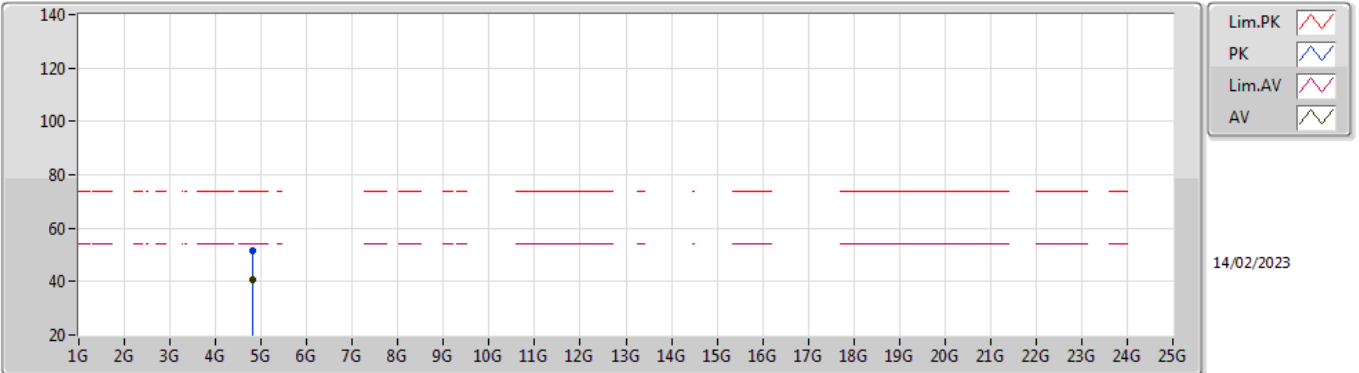


EUT X_1TX
Setting 7
02-E-W-4

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	4.80224G	53.38	74.00	-20.62	45.78	3	Vertical	55	1.96	-	32.81	5.60	30.81	
AV	4.80209G	42.08	54.00	-11.92	34.48	3	Vertical	55	1.96	-	32.81	5.60	30.81	

BT-EDR(3Mbps)

2402MHz_TX

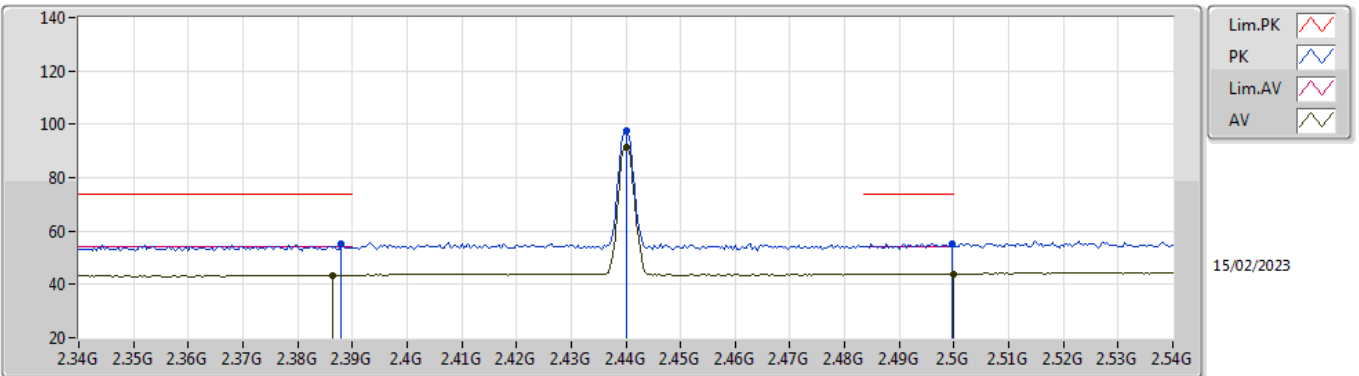


EUT X_1TX
Setting 7
02-E-W-4

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	4.80255G	51.66	74.00	-22.34	44.05	3	Horizontal	238	2.19	-	32.82	5.60	30.81	
AV	4.80219G	40.66	54.00	-13.34	33.06	3	Horizontal	238	2.19	-	32.81	5.60	30.81	

BT-EDR(3Mbps)

2440MHz_TX

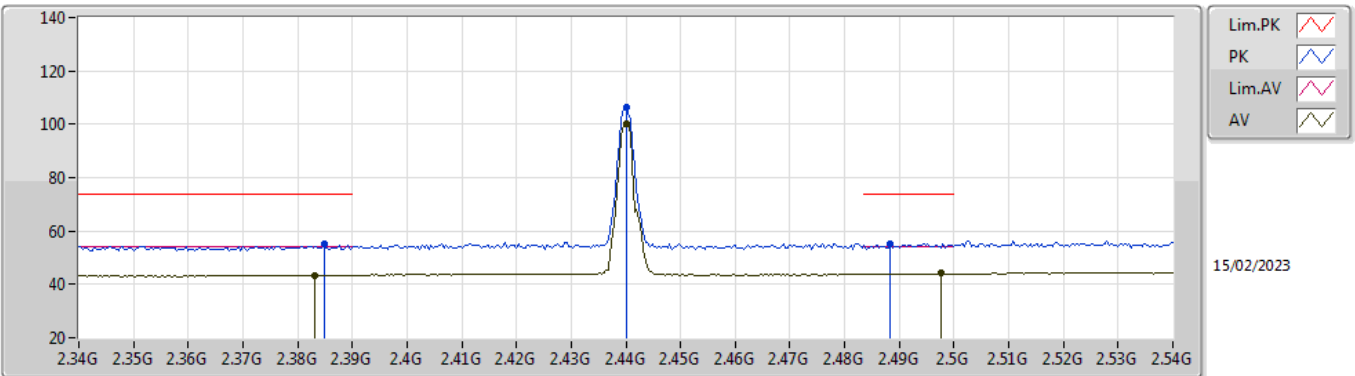


EUT V_1TX
Setting 7
02-E-W-4

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	2.388G	55.10	74.00	-18.90	23.53	3	Vertical	96	1.78	-	28.38	3.19	-
AV	2.3864G	43.45	54.00	-10.55	11.89	3	Vertical	96	1.78	-	28.37	3.19	-
PK	2.44G	97.40	Inf	-Inf	65.78	3	Vertical	96	1.78	-	28.40	3.22	-
AV	2.44G	91.46	Inf	-Inf	59.84	3	Vertical	96	1.78	-	28.40	3.22	-
PK	2.4996G	55.42	74.00	-18.58	23.57	3	Vertical	96	1.78	-	28.60	3.25	-
AV	2.5G	44.01	54.00	-9.99	12.16	3	Vertical	96	1.78	-	28.60	3.25	-

BT-EDR(3Mbps)

2440MHz_TX

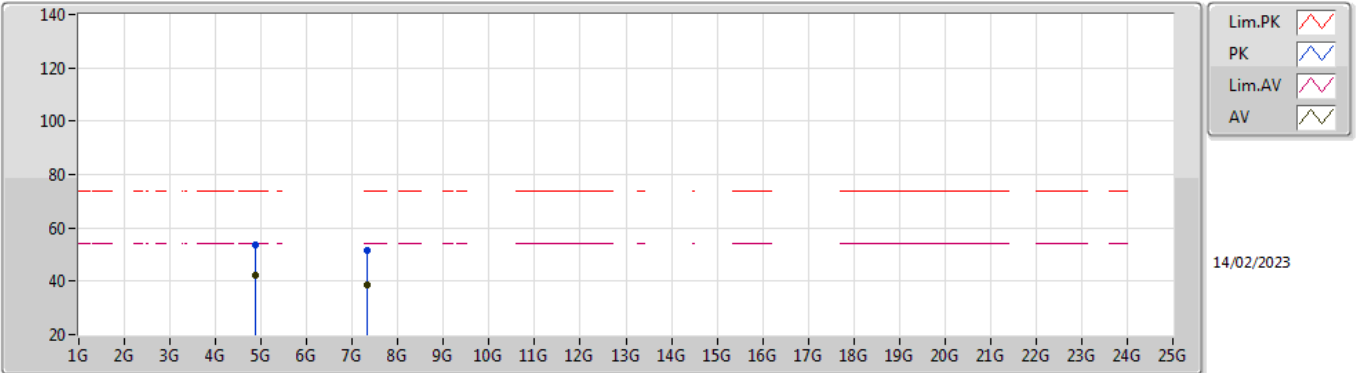


EUT V_1TX
Setting 7
02-E-W-4

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	2.3848G	55.05	74.00	-18.95	23.49	3	Horizontal	334	2.67	-	28.37	3.19	-
AV	2.3832G	43.52	54.00	-10.48	11.96	3	Horizontal	334	2.67	-	28.37	3.19	-
PK	2.44G	106.16	Inf	-Inf	74.54	3	Horizontal	334	2.67	-	28.40	3.22	-
AV	2.44G	100.27	Inf	-Inf	68.65	3	Horizontal	334	2.67	-	28.40	3.22	-
PK	2.4884G	55.38	74.00	-18.62	23.59	3	Horizontal	334	2.67	-	28.55	3.24	-
AV	2.4976G	44.15	54.00	-9.85	12.31	3	Horizontal	334	2.67	-	28.59	3.25	-

BT-EDR(3Mbps)

2440MHz_TX

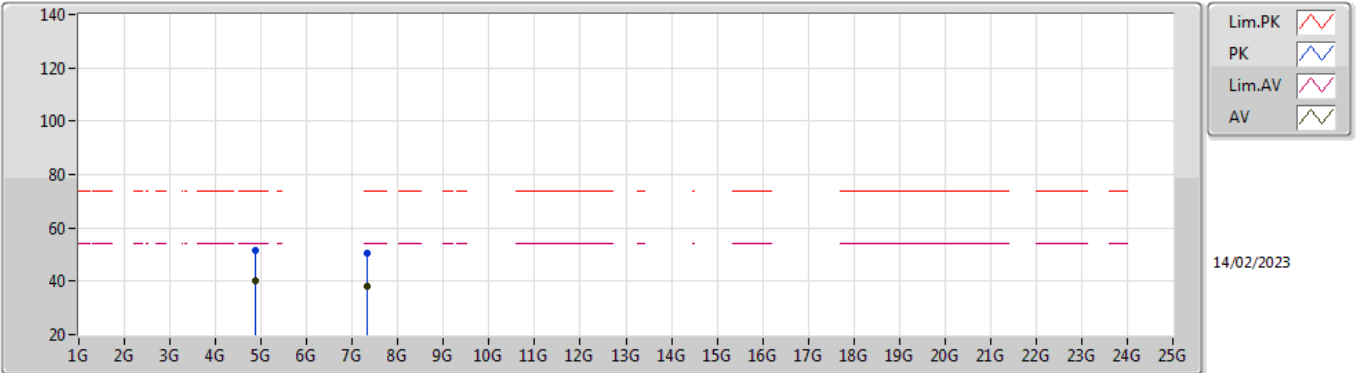


EUT_X_1TX
Setting 7
02-E-W-4

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	4.87825G	53.50	74.00	-20.50	45.48	3	Vertical	55	2.24	-	33.16	5.64	30.78	
AV	4.87829G	41.99	54.00	-12.01	33.97	3	Vertical	55	2.24	-	33.16	5.64	30.78	
PK	7.31986G	51.40	74.00	-22.60	40.05	3	Vertical	299	1.80	-	36.44	6.84	31.93	
AV	7.32044G	38.71	54.00	-15.29	27.36	3	Vertical	299	1.80	-	36.44	6.84	31.93	

BT-EDR(3Mbps)

2440MHz_TX

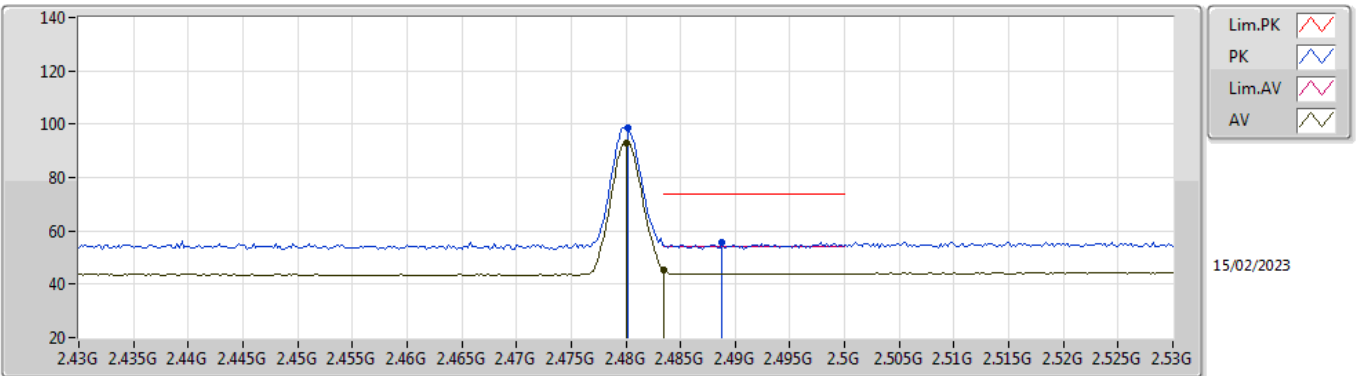


EUT_X_1TX
Setting 7
02-E-W-4

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	4.87812G	51.37	74.00	-22.63	43.35	3	Horizontal	351	2.30	-	33.16	5.64	30.78
AV	4.87824G	40.17	54.00	-13.83	32.15	3	Horizontal	351	2.30	-	33.16	5.64	30.78
PK	7.32042G	50.51	74.00	-23.49	39.16	3	Horizontal	305	2.24	-	36.44	6.84	31.93
AV	7.31958G	37.86	54.00	-16.14	26.51	3	Horizontal	305	2.24	-	36.44	6.84	31.93

BT-EDR(3Mbps)

2480MHz_TX

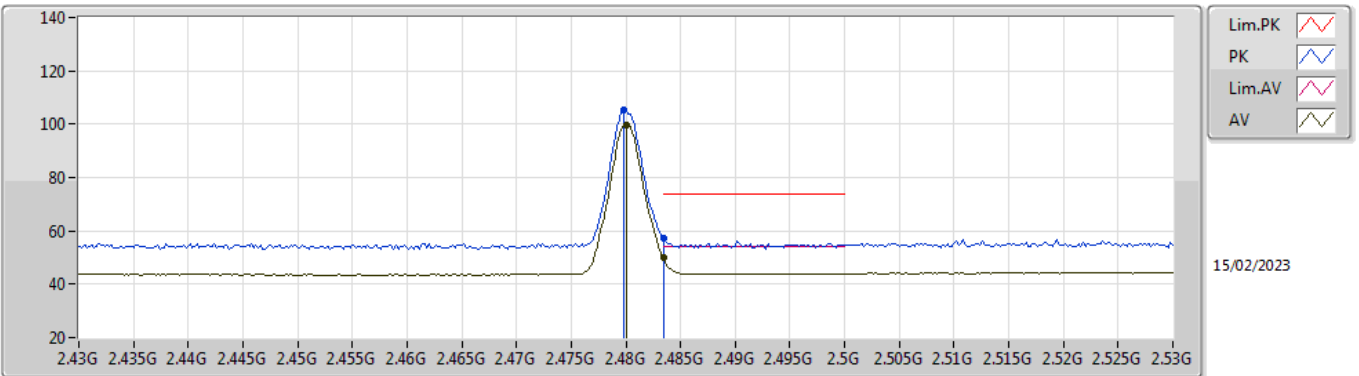


EUT V_1TX
Setting 7
02-E-W-4

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	2.4802G	98.79	Inf	-Inf	67.03	3	Vertical	21	2.85	-	28.52	3.24	-	
AV	2.48G	92.92	Inf	-Inf	61.16	3	Vertical	21	2.85	-	28.52	3.24	-	
PK	2.4888G	55.80	74.00	-18.20	24.00	3	Vertical	21	2.85	-	28.56	3.24	-	
AV	2.4835G	45.42	54.00	-8.58	13.65	3	Vertical	21	2.85	-	28.53	3.24	-	

BT-EDR(3Mbps)

2480MHz_TX

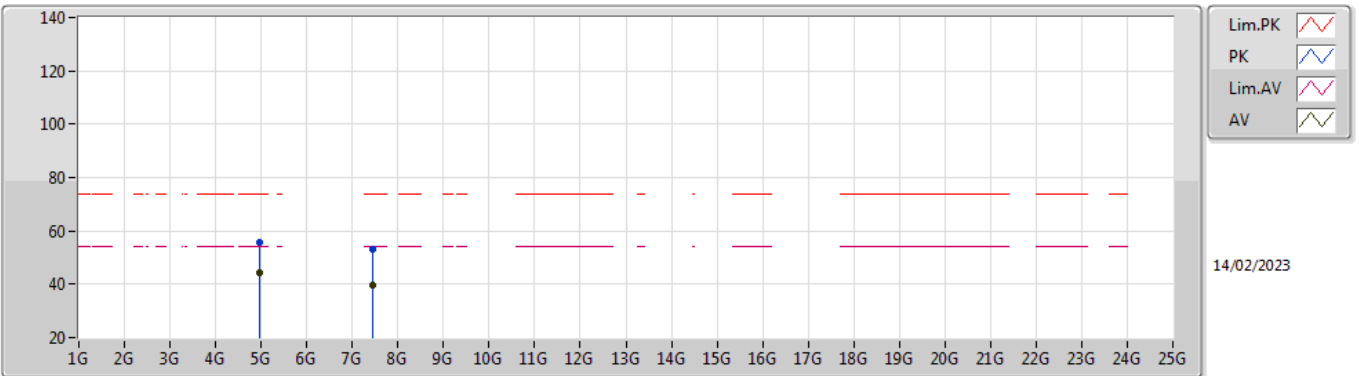


EUT V_1TX
Setting 7
02-E-W-4

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	105.51	Inf	-Inf	73.75	3	Horizontal	331	2.62	-	28.52	3.24	-	
AV	2.48G	99.62	Inf	-Inf	67.86	3	Horizontal	331	2.62	-	28.52	3.24	-	
PK	2.4835G	57.28	74.00	-16.72	25.51	3	Horizontal	331	2.62	-	28.53	3.24	-	
AV	2.4835G	49.89	54.00	-4.11	18.12	3	Horizontal	331	2.62	-	28.53	3.24	-	

BT-EDR(3Mbps)

2480MHz_TX

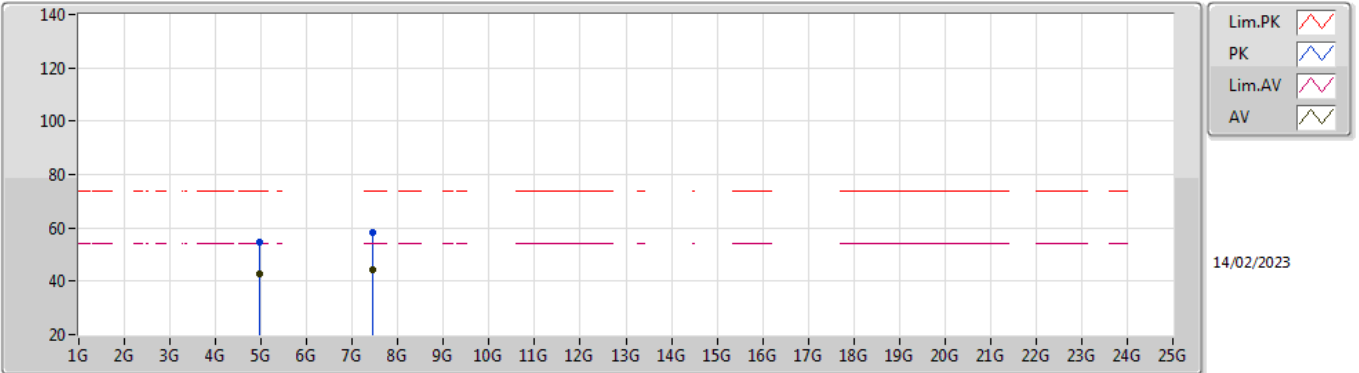


EUT_X_1TX
Setting 7
02-E-W-4

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	4.96032G	55.72	74.00	-18.28	47.47	3	Vertical	56	2.09	-	33.32	5.68	30.75
AV	4.96001G	44.35	54.00	-9.65	36.10	3	Vertical	56	2.09	-	33.32	5.68	30.75
PK	7.43958G	53.29	74.00	-20.71	41.94	3	Vertical	213	3.00	-	36.50	6.84	31.99
AV	7.44042G	39.85	54.00	-14.15	28.51	3	Vertical	213	3.00	-	36.50	6.84	32.00

BT-EDR(3Mbps)

2480MHz_TX



EUT X_1TX
Setting 7
02-E-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	54.56	74.00	-19.44	46.31	3	Horizontal	343	1.83	-	33.32	5.68	30.75	
AV	4.96006G	42.96	54.00	-11.04	34.71	3	Horizontal	343	1.83	-	33.32	5.68	30.75	
PK	7.43978G	58.10	74.00	-15.90	46.76	3	Horizontal	342	2.48	-	36.50	6.84	32.00	
AV	7.43989G	44.36	54.00	-9.64	33.02	3	Horizontal	342	2.48	-	36.50	6.84	32.00	