3787

RADIO TEST REPORT

FCC ID	:	TLZ-AM510
Equipment	:	IEEE 802.11 1X1 a/b/g/n Wireless LAN + Bluetooth 5.1 Combo 12 x 12 LGA Module
Brand Name	:	AzureWave
Model Name	:	AW-AM510 ; AW-AM510-I ; AW-AM510MA
Applicant	:	AzureWave Technologies, Inc. 8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Manufacturer	:	AzureWave Technologies, Inc. 8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Standard	:	47 CFR FCC Part 15.247

The product was received on Mar. 15, 2021, and testing was started from Mar. 16, 2021 and completed on Apr. 20, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

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

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR131001AC	01	Initial issue of report	May 14, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
2.8	15.207	AC Power-line Conducted Emissions	PASS	-
2.9	15.247(a)	20dB Bandwidth	PASS	-
2.9	15.247(a)	Carrier Frequency Separation	PASS	-
2.10	15.247(b)	Maximum Conducted Output Power	PASS	-
2.11	15.247(a)	Number of Hopping Frequencies and Hopping Band edge	PASS	-
2.12	15.247(a)	Time of Occupancy (Dwell Time)	PASS	-
2.13	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
2.14	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen
Report Producer: Sandy Chuang

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 π/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)
1	1	Molex	1461531050	Dipole	I-PEX	Note 1
2	1	MAG. LAYERS	MSA-4008-25GC1-A2	PIFA	I-PEX	Note 1
3	1	LYNwave	5-PP005421	PIFA	I-PEX	Note 1

Note1:

Ant.	Antenna Gain (dBi)		
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth
1	3.20	4.25	3.20
2	2.98	5.16	2.98
3	2.90	4.30	2.90

Note2: The above information was declared by manufacturer.

Note3:

<For conducted test>

2.4GHz and Bluetooth

Only the higher gain antenna “Ant. 1” was tested and recorded in the report.

5GHz

Only the higher gain antenna “Ant. 2” was tested and recorded in the report.

<For AC Power-line Conducted Emissions and Radiated test>

Ant.2 and Ant. 3 are the same type antenna, and only the higher gain antenna “Ant. 1 and Ant. 2” was tested and recorded in the report.

<For WLAN 2.4GHz>

For IEEE 802.11b/g/n mode (1TX/1RX)

Only Port 1 can be used as transmitting/receiving.

<For WLAN 5GHz>

For IEEE 802.11a/n mode (1TX/1RX)

Only Port 1 can be used as transmitting/receiving.

<For Bluetooth> (1TX/1RX)

Only Port 1 can be used as transmitting/receiving.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-BR(1Mbps)	0.742	1.3	2.889m	1k
BT-EDR(3Mbps)	0.741	1.3	2.888m	1k
BT-EDR(2Mbps)	0.742	1.3	2.89m	1k

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From host system
Test Software Version	Dut labtool 1.0.0.11

1.1.5 Table for Multiple Listing

Model No.	Description
AW-AM510	All the model names are identical, the difference model names served as marketing strategy.
AW-AM510-I	
AW-AM510MA	

Note 1: From the above models, model: AW-AM510 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.2 Applicable Standards

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

- 47 CFR FCC Part 15

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

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

1.3 Testing Location Information

Testing Location Information	
Test Lab.：Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Lucas Huang	21-22.1 / 57-65	Mar. 24, 2021~ Apr. 06, 2021
Radiated (Below 1GHz)	03CH05-CB	Cola Fan	21.3-22.5 / 55-58	Apr. 20, 2021
Radiated (Above 1GHz)	03CH02-CB	RJ Huang	20.2-21.3 / 56-58	Mar. 16, 2021~ Mar. 24, 2021
AC Conduction	CO02-CB	Peter Wu	23~24 / 57~58	Apr. 08, 2021

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.9 dB	Confidence levels of 95%
Conducted Emission	2.8 dB	Confidence levels of 95%
Output Power Measurement	1.4 dB	Confidence levels of 95%
Power Density Measurement	2.8 dB	Confidence levels of 95%
Bandwidth Measurement	0.4%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	12
2440MHz	12
2479MHz	12
2480MHz	4
BT-EDR(2Mbps)	-
2402MHz	10
2440MHz	10
2479MHz	10
2480MHz	6
BT-EDR(3Mbps)	-
2402MHz	10
2440MHz	10
2479MHz	10
2480MHz	6

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
Operating Mode	Normal Link
1	EUT + WLAN 2.4GHz + Bluetooth + Ant. 1
2	EUT + WLAN 5GHz + Bluetooth + Ant. 1
Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT + WLAN 2.4GHz + Bluetooth + Ant. 2
For operating mode 1 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
1	EUT+ Ant. 1

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
1	EUT in Z axis + WLAN 2.4GHz + Bluetooth + Ant. 1
2	EUT in Y axis + WLAN 2.4GHz + Bluetooth + Ant. 1
Mode 2 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in Y axis + WLAN 5GHz + Bluetooth + Ant. 1
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT in Y axis + WLAN 5GHz + Bluetooth + Ant. 2
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position, and the worst case as below:	
1	EUT in Y axis + Ant. 1
2	EUT in Z axis + Ant. 2

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
Refer to Sporton Test Report No.: FA131001 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	ACER	MS2343	N/A
B	Fixture	AzureWave	AW2510-I1	N/A
C	AP Router	ASUS	RP-N53	MSQ-RPN53
D	Earphone	SHYARO CHI	MIC-04	N/A
E	Mouse	HP	FM100	N/A
F	iPad	Apple	A1430	BCGA1430
G	AP Router NB	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	WLAN AP	D-LINK	DIR860L	KA2IR860LA1
D	iPad	Apple	A1430	BCGA1430
E	Earphone	e-Power	S90W	N/A
F	Mouse	Logitech	M-U0026	N/A
G	Fixture	AzureWave	AW2510-I1	N/A

For Radiated (above 1GHz):

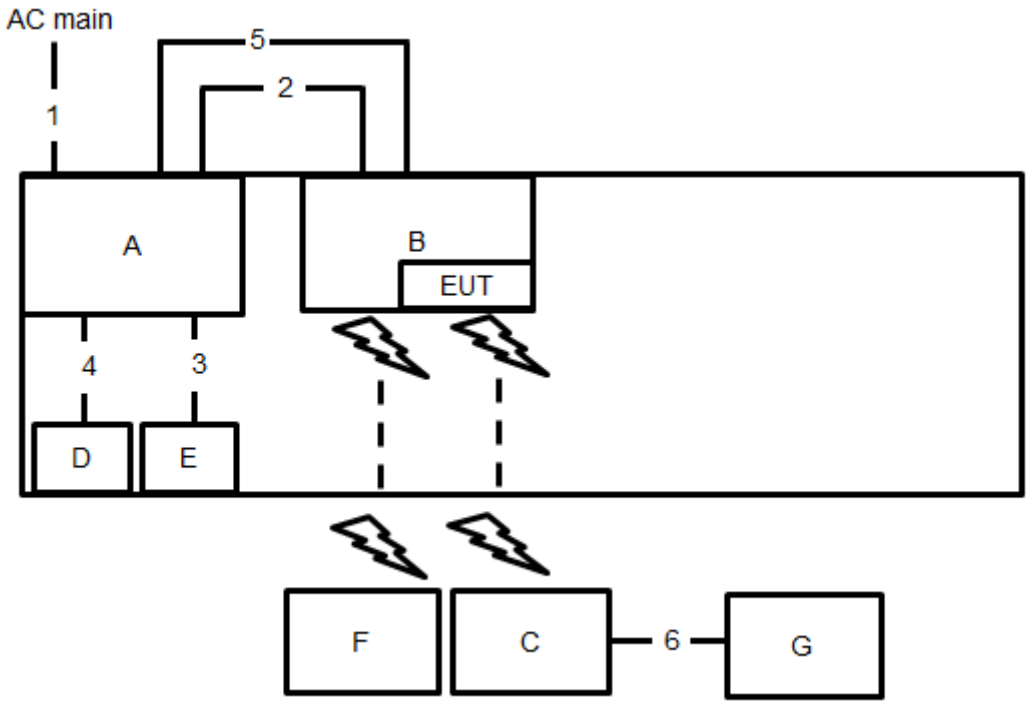
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Fixture	AzureWave	AW2510-I1	N/A
B	NB	DELL	E4300	N/A
C	NB	DELL	E4300	N/A

For RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Fixture	AzureWave	AW2510-I1	N/A

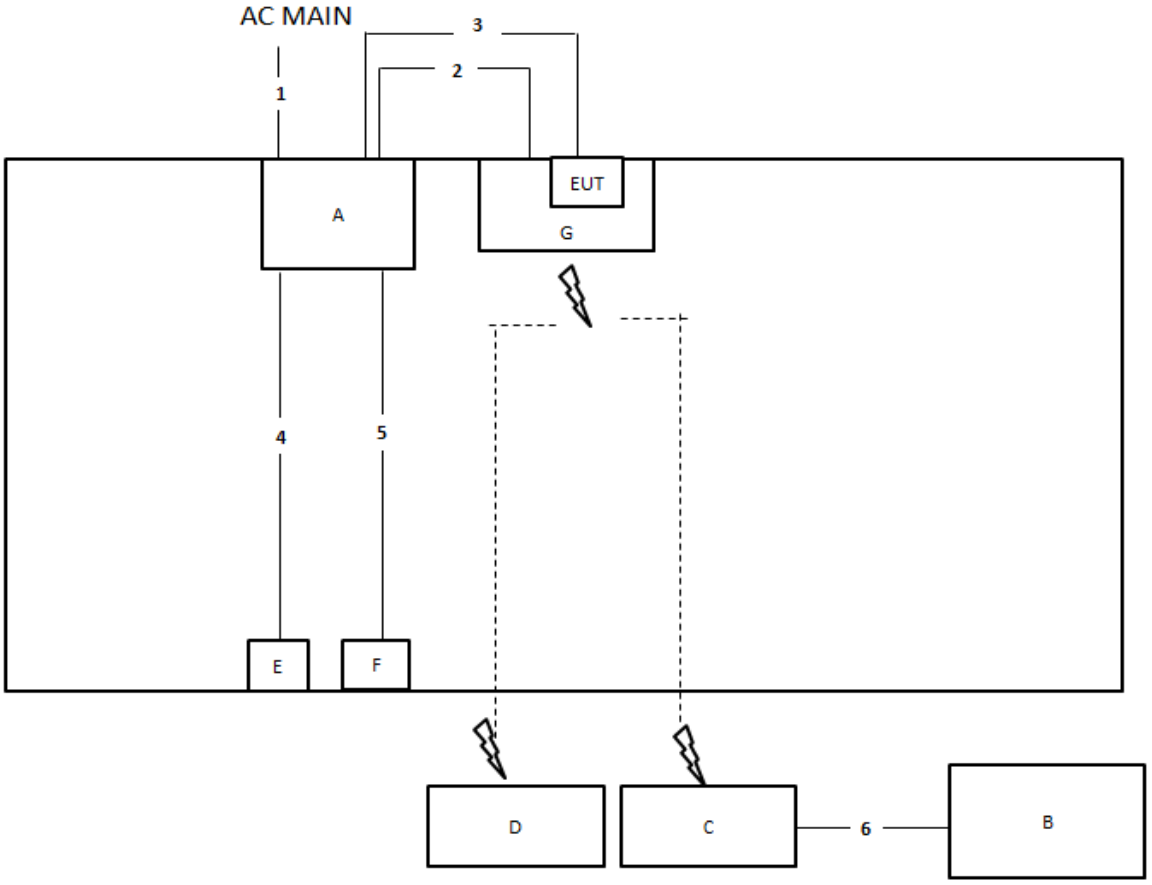
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



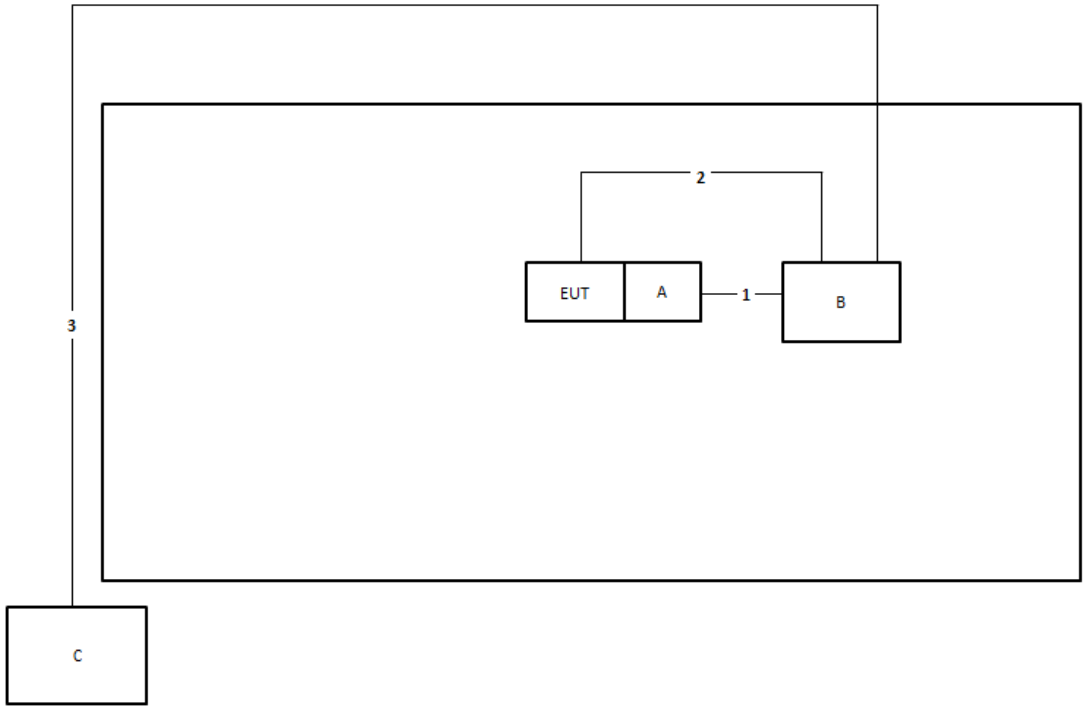
Item	Connection	Shielded	Length
1	Power cable	No	2.6m
2	USB cable	Yes	1m
3	USB cable	Yes	1.5m
4	Audio cable	No	1.5m
5	USB cable	Yes	0.5m
6	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	2.6m
2	USB cable	Yes	1m
3	USB cable	Yes	2m
4	Audio cable	No	1.1m
5	USB cable	Yes	1.4m
6	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz



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

2.7 Transmitter Test Result

2.8 AC Power-line Conducted Emissions

2.8.1 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.		

2.8.2 Measuring Instruments

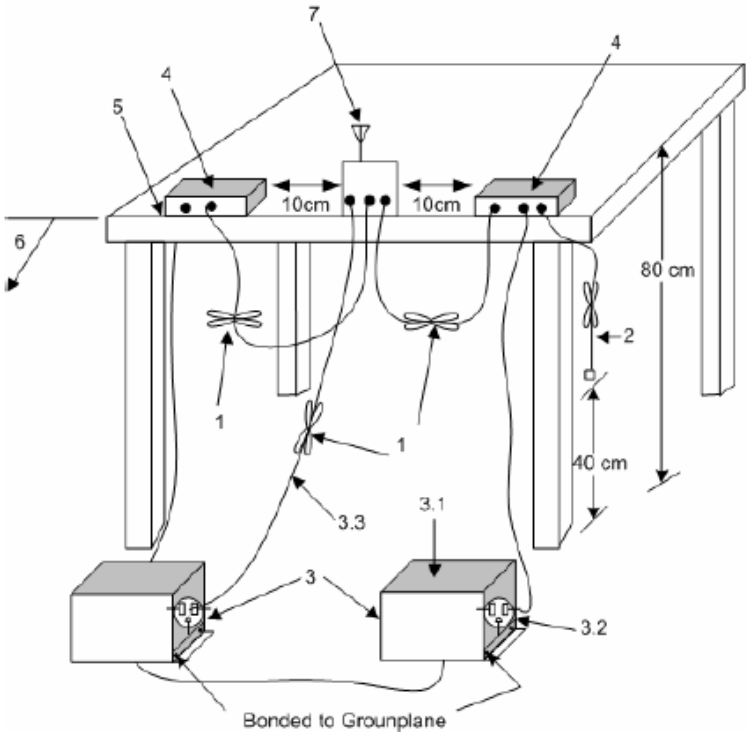
Refer a test equipment and calibration data table in this test report.

2.8.3 Test Procedures

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

2.8.4 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

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

2.8.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

2.9 20dB Bandwidth and Carrier Frequency Separation

2.9.1 20dB Bandwidth and Carrier Frequency Separation Limit

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

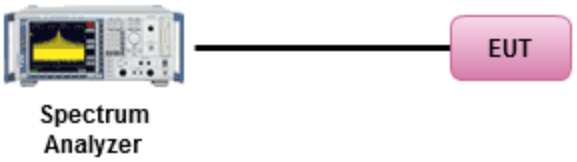
2.9.2 Measuring Instruments

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

2.9.3 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.

2.9.4 Test Setup

20dB Bandwidth and Carrier Frequency Separation


2.9.5 Test Result of 20dB Bandwidth

Refer as Appendix B

2.9.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

2.10 Maximum Conducted Output Power

2.10.1 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

2.10.2 Measuring Instruments

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

2.10.3 Test Procedures

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

2.10.4 Test Setup

Maximum Conducted Output Power (Peak Power Meter)


2.10.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

2.11 Number of Hopping Frequencies and Hopping Bandedge

2.11.1 Number of Hopping Frequencies Limit

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

2.11.2 Hopping Bandedge Limit

Refer clause 2.13.1 and clause 2.14.1

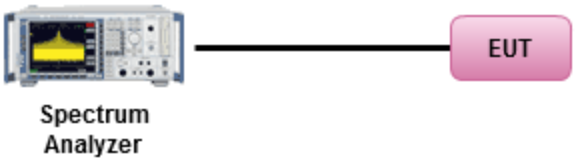
2.11.3 Measuring Instruments

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

2.11.4 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.

2.11.5 Test Setup

Number of Hopping Frequencies and Hopping Frequencies Bandedge


2.11.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

2.11.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

2.12 Time of Occupancy (Dwell Time)

2.12.1 Time of Occupancy (Dwell Time) Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems
▪ 902-928 MHz Band:
▪ N ≥50; 0.4s in 20s period
▪ 50 >N≥ 25; 0.4s in 10s period
▪ 2400-2483.5 MHz Band:
▪ N ≥ 75; 0.4s in N x 0.4 period
▪ 75 >N ≥ 15; 0.4s in N x 0.4 period
▪ 5725-5850 MHz Band:
▪ N ≥ 75; 0.4s in 30s period
N:Number of Hopping Frequencies

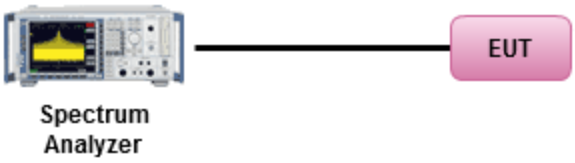
2.12.2 Measuring Instruments

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

2.12.3 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.

2.12.4 Test Setup

Time of Occupancy (Dwell Time)


2.12.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

2.13 Emissions in Non-restricted Frequency Bands

2.13.1 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.	

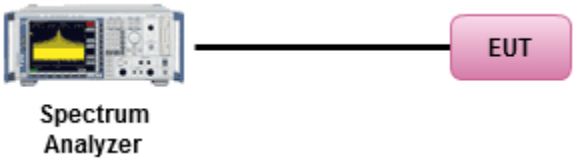
2.13.2 Measuring Instruments

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

2.13.3 Test Procedures

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

2.13.4 Test Setup

Emissions in Non-restricted Frequency Bands


2.13.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F

2.14 Emissions in Restricted Frequency Bands

2.14.1 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 below30 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.

2.14.2 Measuring Instruments

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

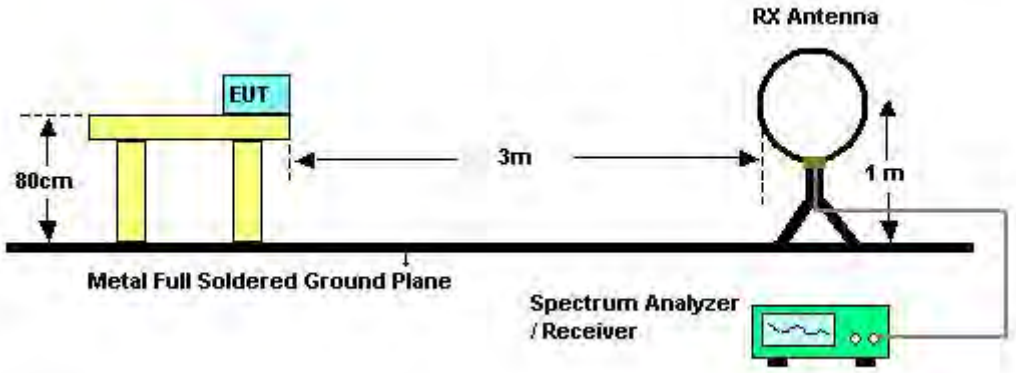
2.14.3 Test Procedures

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.

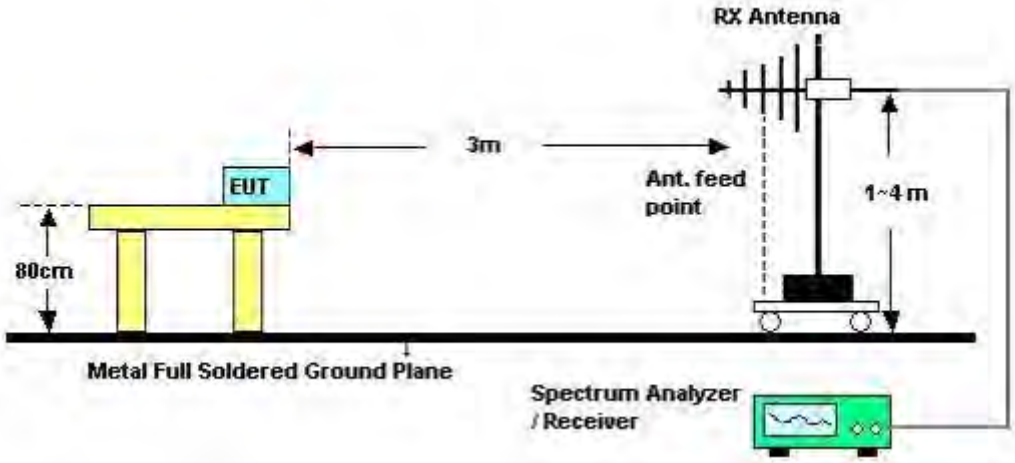
2.14.4 Test Setup

Emissions in Restricted Frequency Bands

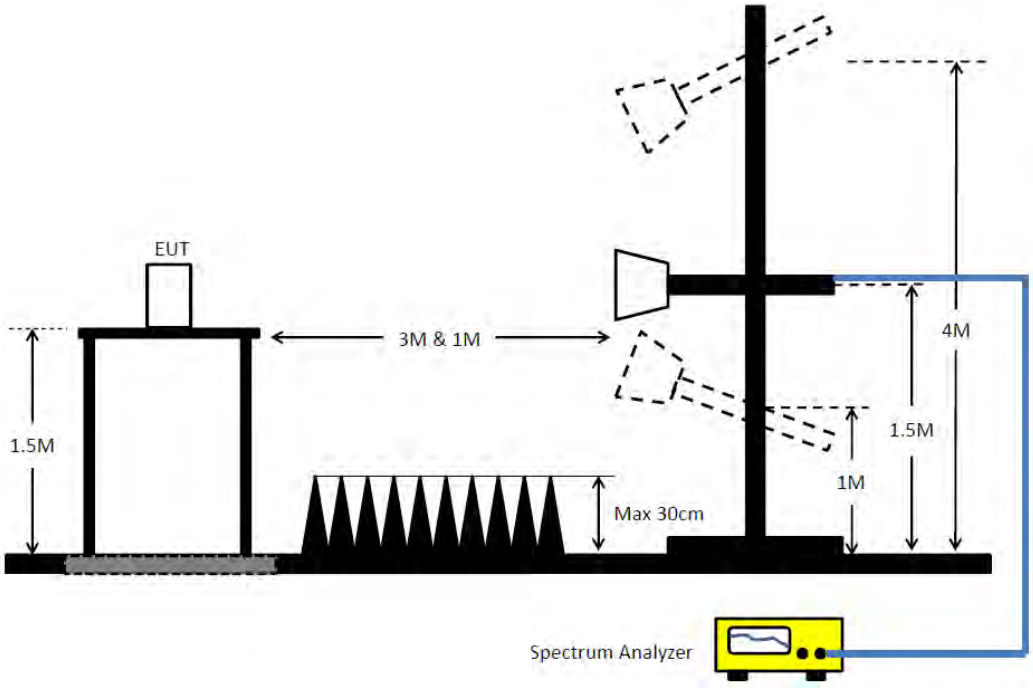
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



2.14.5 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.

2.14.6 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.

2.14.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G

3 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Dec. 04, 2020	Dec. 03, 2021	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 20, 2020	Nov. 19, 2021	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Mar. 18, 2021	Mar. 17, 2022	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 20, 2020	Oct. 19, 2021	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 16.2021	Mar. 15.2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 10, 2020	Aug. 09, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 28, 2020	Apr. 27, 2021	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz 3m	Mar. 28, 2020	Mar. 27, 2021	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 21, 2020	Apr. 20, 2021	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 13, 2020	Jul. 12, 2021	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 15, 2020	Oct. 14, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 05, 2020	May 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 23, 2021	Feb. 22, 2022	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 23, 2021	Feb. 22, 2022	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

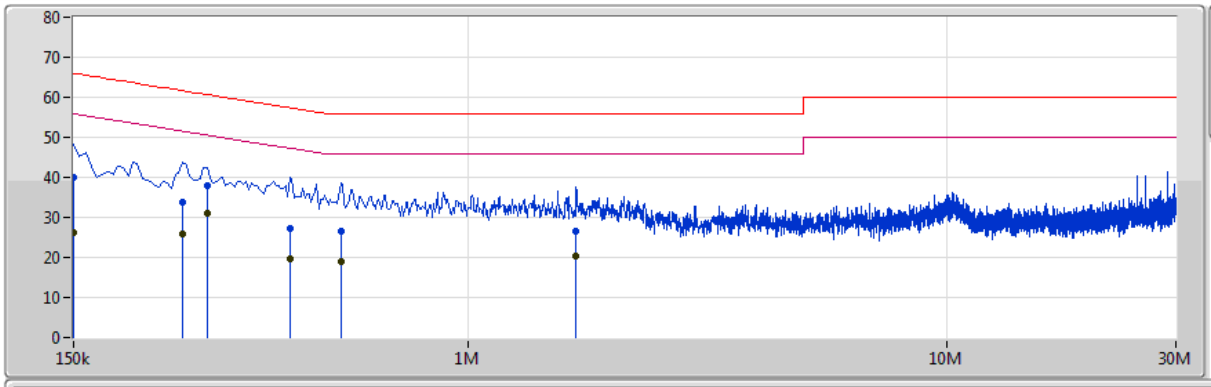
N.C.R. means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	285k	31.04	50.67	-19.63	Line

Mode 1

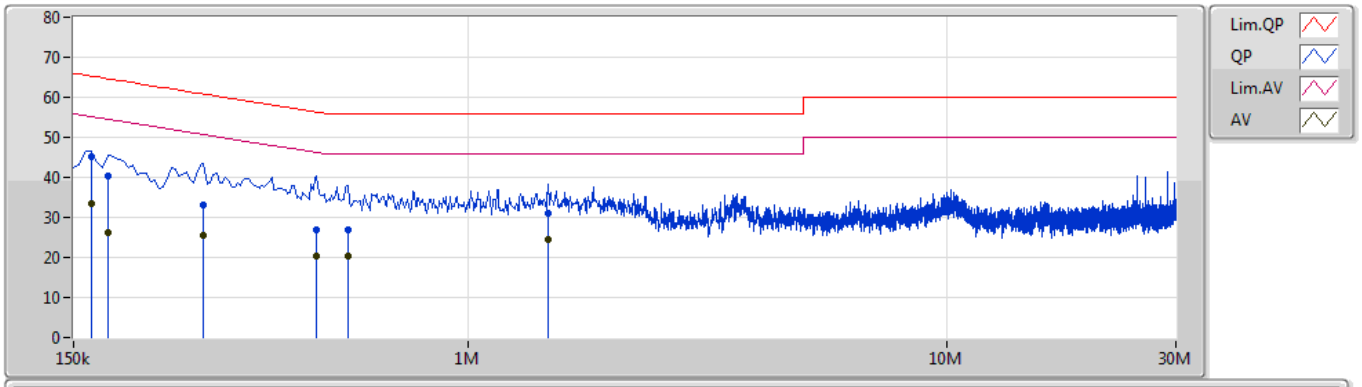
08/04/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	39.92	66.00	-26.08	10.29	Line	-	29.63	0.07	0.07	10.15
AV	150k	26.09	56.00	-29.91	10.29	Line	-	15.80	0.07	0.07	10.15
QP	253.5k	33.74	61.64	-27.90	10.28	Line	-	23.46	0.07	0.07	10.14
AV	253.5k	25.93	51.64	-25.71	10.28	Line	-	15.65	0.07	0.07	10.14
QP	285k	37.77	60.67	-22.90	10.27	Line	-	27.50	0.08	0.06	10.13
AV	285k	31.04	50.67	-19.63	10.27	Line	"Worst"	20.77	0.08	0.06	10.13
QP	424.5k	27.08	57.36	-30.28	10.25	Line	-	16.83	0.08	0.06	10.11
AV	424.5k	19.76	47.36	-27.60	10.25	Line	-	9.51	0.08	0.06	10.11
QP	541.5k	26.47	56.00	-29.53	10.26	Line	-	16.21	0.08	0.07	10.11
AV	541.5k	19.01	46.00	-26.99	10.26	Line	-	8.75	0.08	0.07	10.11
QP	1.68M	26.61	56.00	-29.39	10.31	Line	-	16.30	0.10	0.09	10.12
AV	1.68M	20.20	46.00	-25.80	10.31	Line	-	9.89	0.10	0.09	10.12

Mode 1

08/04/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	163.5k	45.33	65.27	-19.94	10.28	Neutral	"Worst"	35.05	0.06	0.07	10.15
AV	163.5k	33.39	55.27	-21.88	10.28	Neutral	-	23.11	0.06	0.07	10.15
QP	177k	40.22	64.62	-24.40	10.29	Neutral	-	29.93	0.06	0.07	10.16
AV	177k	26.37	54.62	-28.25	10.29	Neutral	-	16.08	0.06	0.07	10.16
QP	280.5k	33.21	60.80	-27.59	10.27	Neutral	-	22.94	0.06	0.07	10.14
AV	280.5k	25.65	50.80	-25.15	10.27	Neutral	-	15.38	0.06	0.07	10.14
QP	483k	27.03	56.29	-29.26	10.23	Neutral	-	16.80	0.06	0.06	10.11
AV	483k	20.19	46.29	-26.10	10.23	Neutral	-	9.96	0.06	0.06	10.11
QP	559.5k	26.95	56.00	-29.05	10.25	Neutral	-	16.70	0.07	0.07	10.11
AV	559.5k	20.24	46.00	-25.76	10.25	Neutral	-	9.99	0.07	0.07	10.11
QP	1.473M	31.01	56.00	-24.99	10.30	Neutral	-	20.71	0.09	0.09	10.12
AV	1.473M	24.48	46.00	-21.52	10.30	Neutral	-	14.18	0.09	0.09	10.12

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)	920k	875.812k	876KF1D	916.25k	869.565k
BT-EDR(2Mbps)	1.31M	1.181M	1M18G1D	1.309M	1.178M
BT-EDR(3Mbps)	1.268M	1.191M	1M19G1D	1.263M	1.189M

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

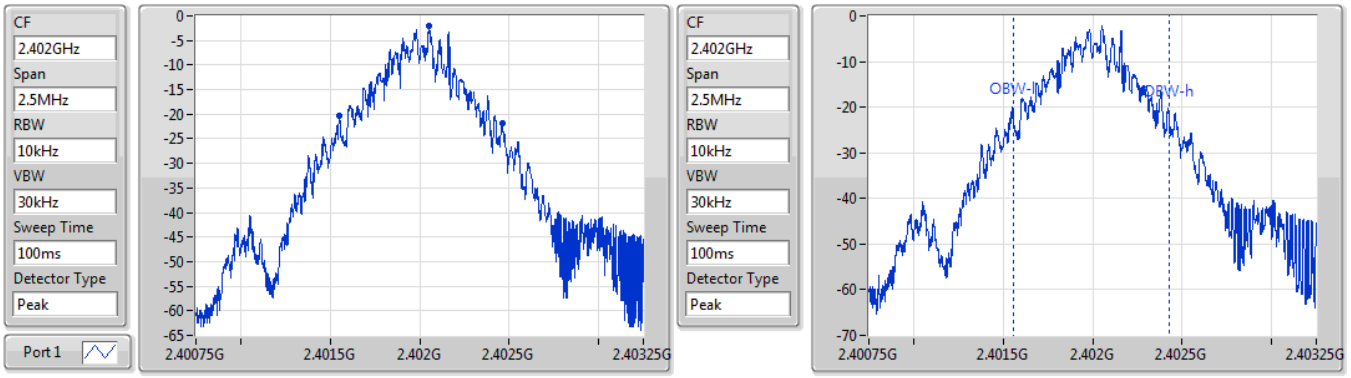
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	916.25k	869.565k
2440MHz	Pass	Inf	920k	869.565k
2480MHz	Pass	Inf	918.75k	875.812k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.309M	1.178M
2440MHz	Pass	Inf	1.31M	1.181M
2480MHz	Pass	Inf	1.309M	1.181M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.268M	1.191M
2440MHz	Pass	Inf	1.264M	1.191M
2480MHz	Pass	Inf	1.263M	1.189M

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

BT-BR(1Mbps) EBW

2402MHz

24/03/2021

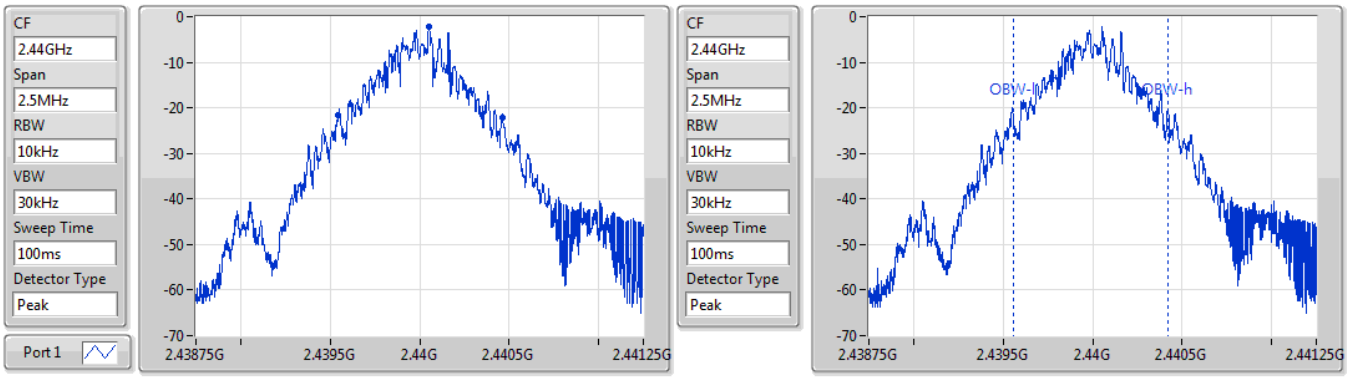


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
916.25k	2.401548G	2.402464G	869.565k	2.401556G	2.402426G	Inf	1

BT-BR(1Mbps) EBW

2440MHz

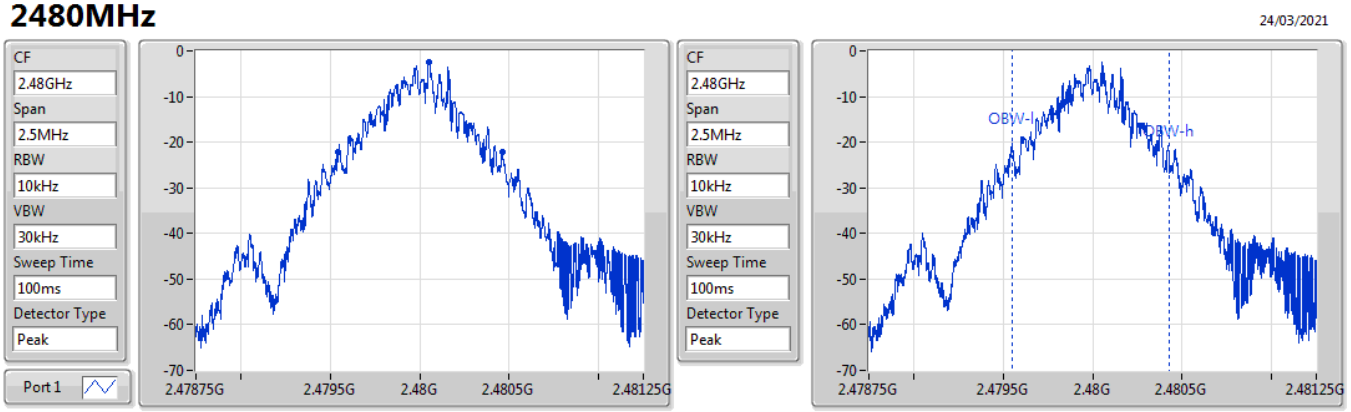
24/03/2021



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
920k	2.439545G	2.440465G	869.565k	2.439555G	2.440425G	Inf	1

BT-BR(1Mbps) EBW

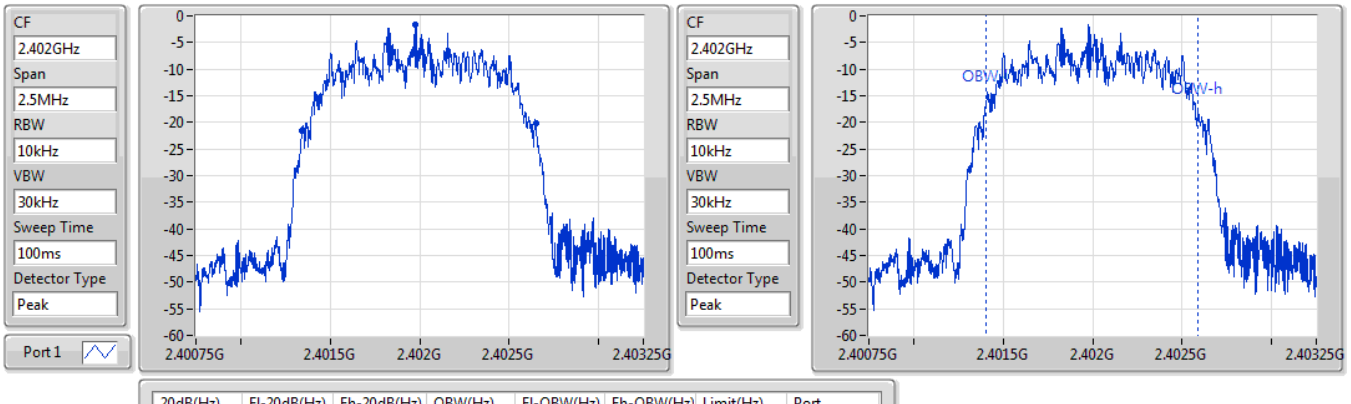
2480MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
918.75k	2.479545G	2.480464G	875.812k	2.479551G	2.480427G	Inf	1

BT-EDR(2Mbps) EBW

2402MHz

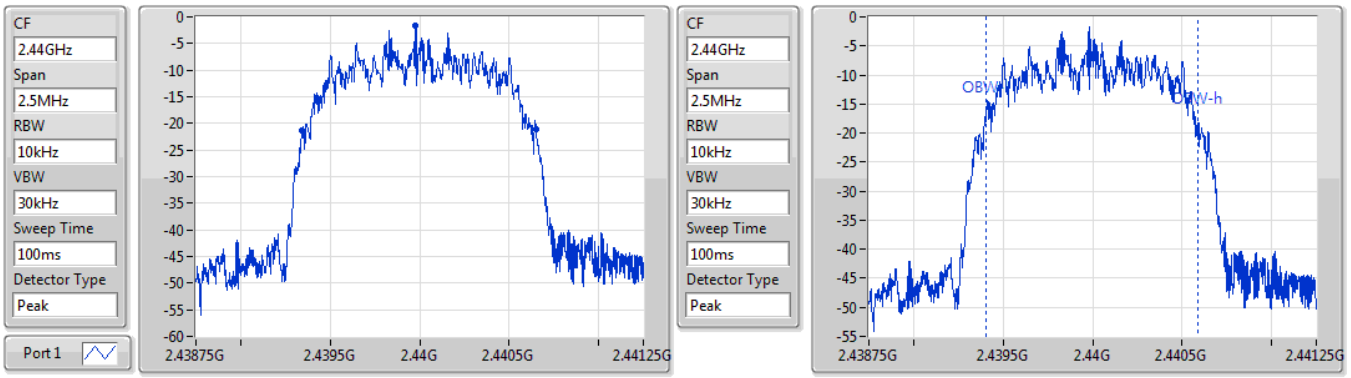


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.309M	2.401343G	2.402651G	1.178M	2.401408G	2.402586G	Inf	1

BT-EDR(2Mbps) EBW

2440MHz

24/03/2021

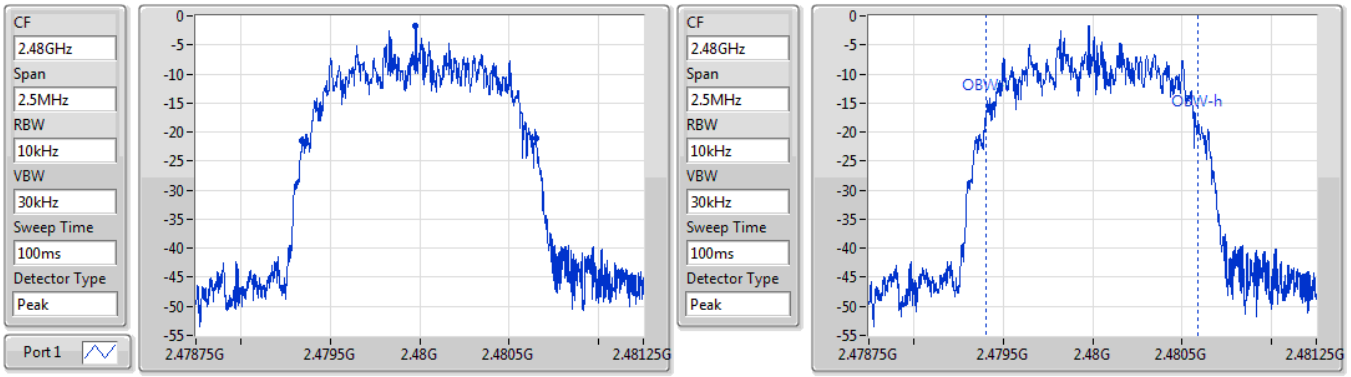


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.31M	2.439343G	2.440653G	1.181M	2.439407G	2.440587G	Inf	1

BT-EDR(2Mbps) EBW

2480MHz

24/03/2021

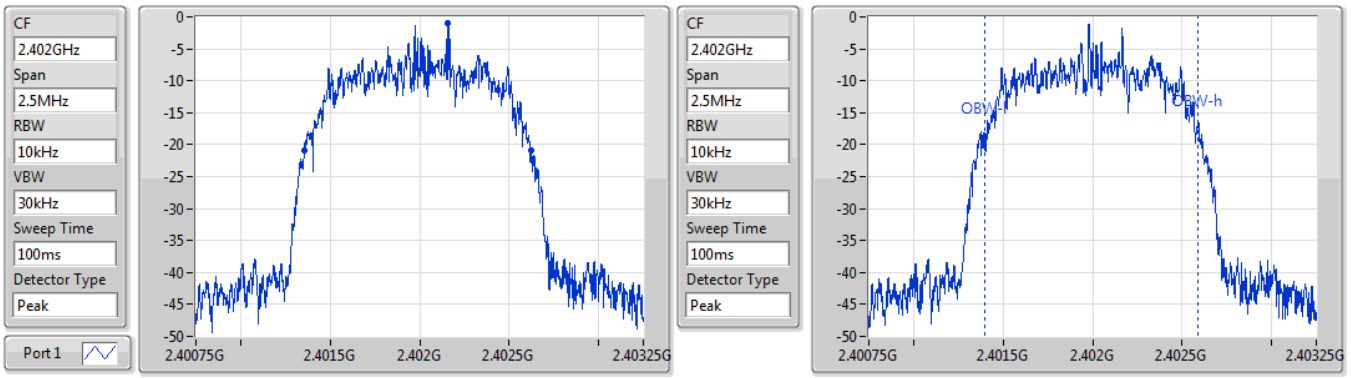


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.309M	2.479343G	2.480651G	1.181M	2.479408G	2.480588G	Inf	1

BT-EDR(3Mbps) EBW

2402MHz

24/03/2021

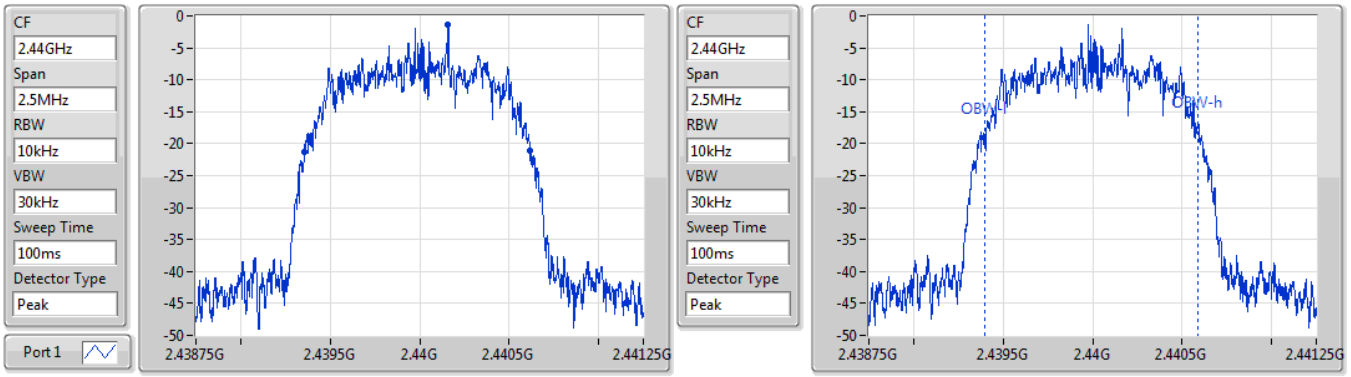


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.268M	2.401354G	2.402621G	1.191M	2.401397G	2.402587G	Inf	1

BT-EDR(3Mbps) EBW

2440MHz

24/03/2021

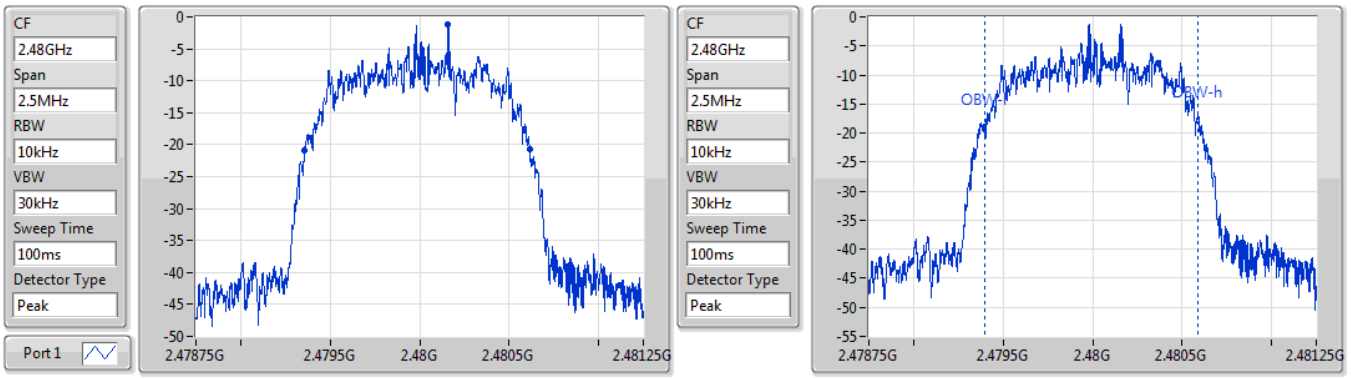


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.264M	2.439354G	2.440618G	1.191M	2.439397G	2.440587G	Inf	1

BT-EDR(3Mbps) **EBW**

2480MHz

24/03/2021



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.263M	2.479354G	2.480616G	1.189M	2.479397G	2.480586G	Inf	1

Summary

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

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402052G	2.403054G	1.002M	610.2225k
2440MHz	Pass	2.440053G	2.441054G	1.0005M	612.72k
2479MHz					
2480MHz	Pass	2.479053G	2.480054G	1.0005M	611.8875k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.40183G	2.40283G	1.0005M	871.794k
2440MHz	Pass	2.439831G	2.440833G	1.002M	872.46k
2479MHz					
2480MHz	Pass	2.47883G	2.479827G	997.5k	871.794k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.401977G	2.402979G	1.002M	844.488k
2440MHz	Pass	2.44016G	2.44116G	1.0005M	841.824k
2479MHz					
2480MHz	Pass	2.478978G	2.479976G	997.5k	841.158k

BT-BR(1Mbps) **Channel Separation**

2.402G/2.403GHz

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402052G	2.403054G	1.002M	610.2225k

BT-BR(1Mbps) **Channel Separation**

2.44G/2.441GHz

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440053G	2.441054G	1.0005M	612.72k

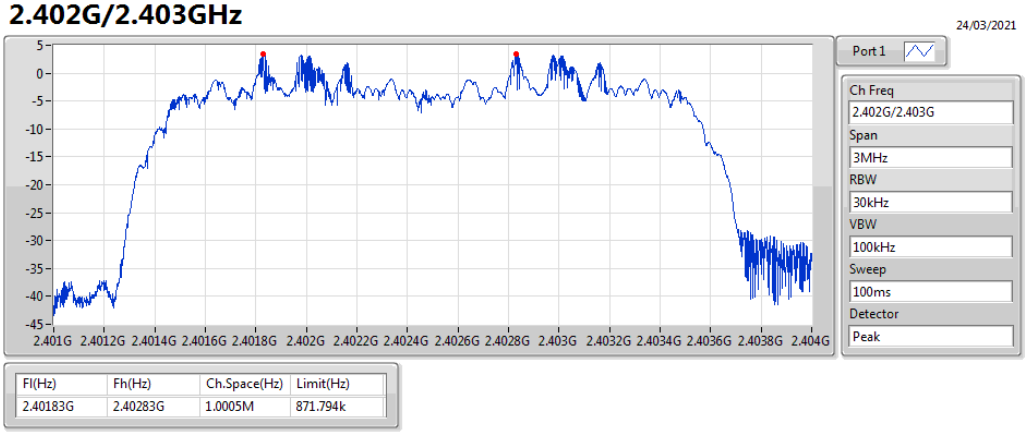
BT-BR(1Mbps) **Channel Separation**

2.48G/2.479GHz

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479053G	2.480054G	1.0005M	611.8875k

BT-EDR(2Mbps) **Channel Separation**

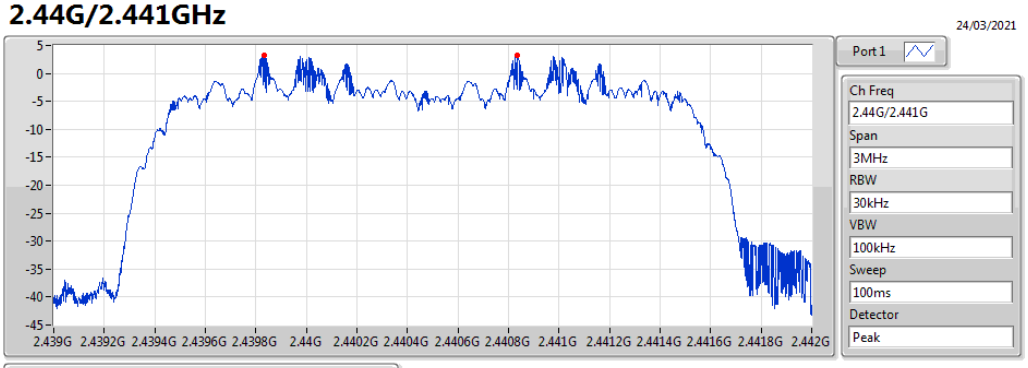
2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.40183G	2.40283G	1.0005M	871.794k

BT-EDR(2Mbps) **Channel Separation**

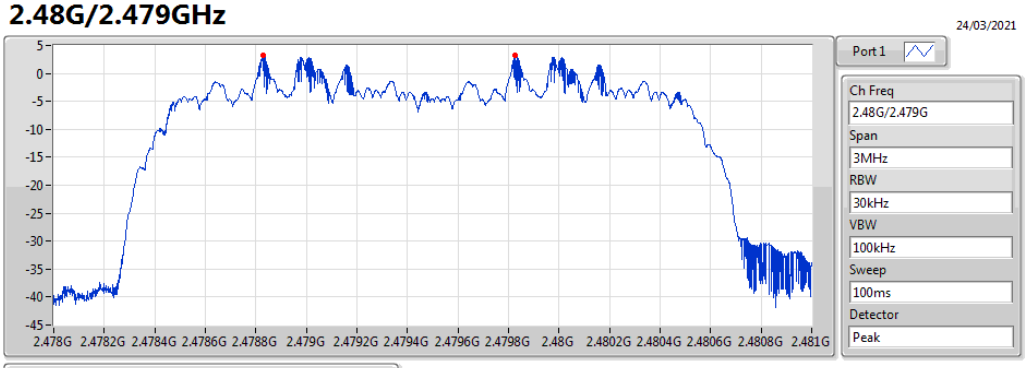
2.44G/2.441GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.439831G	2.440833G	1.002M	872.46k

BT-EDR(2Mbps) **Channel Separation**

2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.47883G	2.479827G	997.5k	871.794k

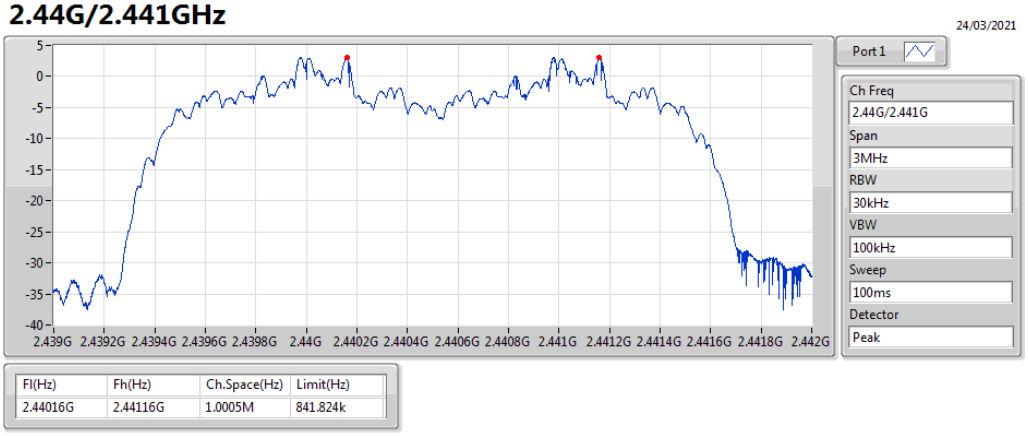
BT-EDR(3Mbps) **Channel Separation**

2.402G/2.403GHz

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.401977G	2.402979G	1.002M	844.488k

BT-EDR(3Mbps) **Channel Separation**

2.44G/2.441GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.44016G	2.44116G	1.0005M	841.824k

BT-EDR(3Mbps) **Channel Separation**

2.48G/2.479GHz

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.478978G	2.479976G	997.5k	841.158k

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	3.51	0.00224
BT-EDR(2Mbps)	5.69	0.00371
BT-EDR(3Mbps)	5.71	0.00372

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.20	3.51	21.00
2440MHz	Pass	3.20	3.33	21.00
2479MHz	Pass	3.20	3.05	21.00
2480MHz	Pass	3.20	3.12	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.20	5.69	21.00
2440MHz	Pass	3.20	5.53	21.00
2479MHz	Pass	3.20	5.43	21.00
2480MHz	Pass	3.20	4.79	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.20	5.71	21.00
2440MHz	Pass	3.20	5.53	21.00
2479MHz	Pass	3.20	5.42	21.00
2480MHz	Pass	3.20	1.56	21.00

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

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	3.72	0.00236
BT-EDR(2Mbps)	8.34	0.00682
BT-EDR(3Mbps)	8.63	0.00729

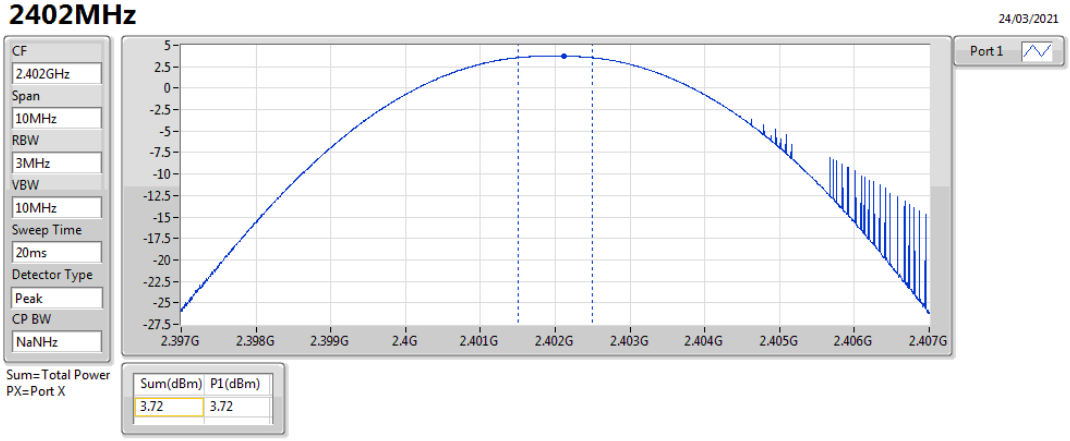
Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.20	3.72	21.00
2440MHz	Pass	3.20	3.57	21.00
2479MHz	Pass	3.20	3.40	21.00
2480MHz	Pass	3.20	3.39	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.20	8.34	21.00
2440MHz	Pass	3.20	8.15	21.00
2479MHz	Pass	3.20	8.03	21.00
2480MHz	Pass	3.20	5.14	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.20	8.63	21.00
2440MHz	Pass	3.20	8.44	21.00
2479MHz	Pass	3.20	8.32	21.00
2480MHz	Pass	3.20	4.57	21.00

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

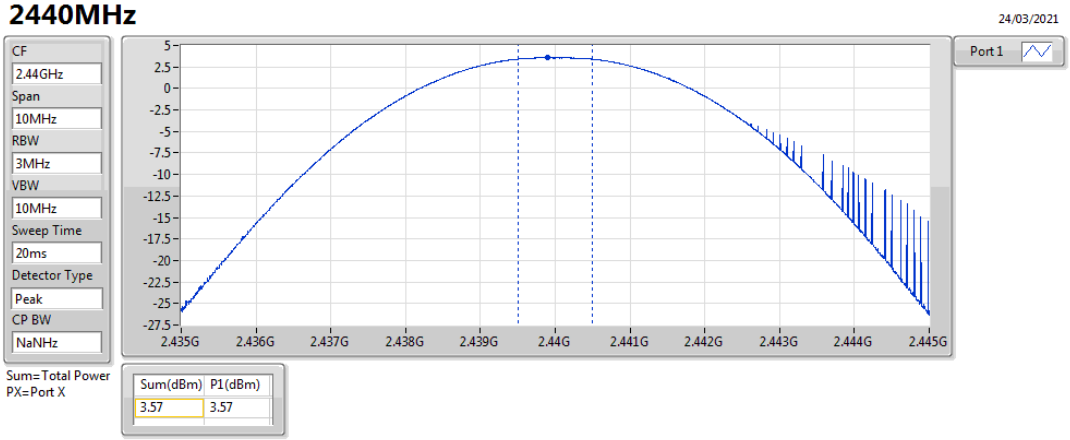
BT-BR(1Mbps) **PK Power**

2402MHz



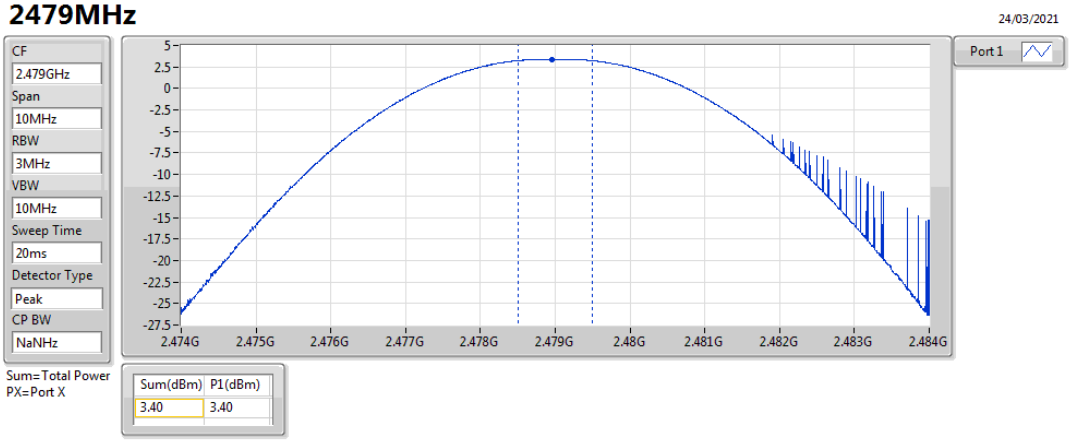
BT-BR(1Mbps) **PK Power**

2440MHz



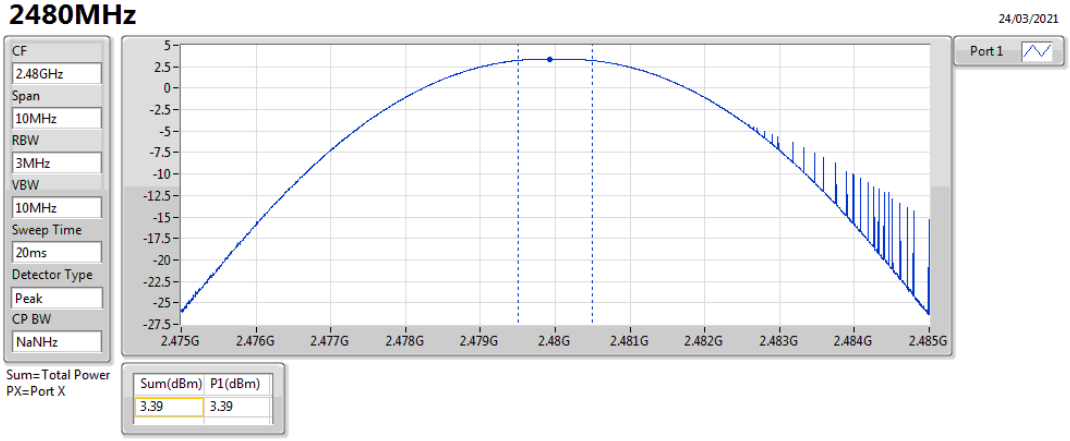
BT-BR(1Mbps) **PK Power**

2479MHz



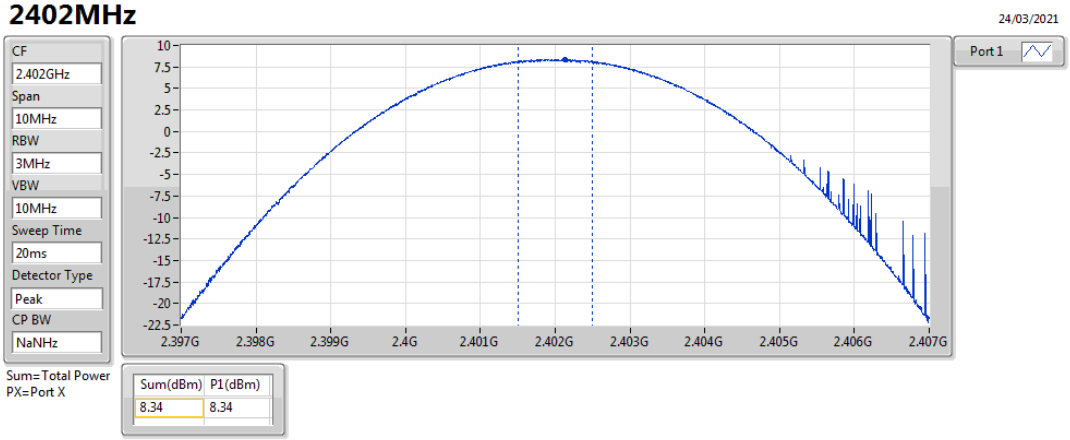
BT-BR(1Mbps) **PK Power**

2480MHz



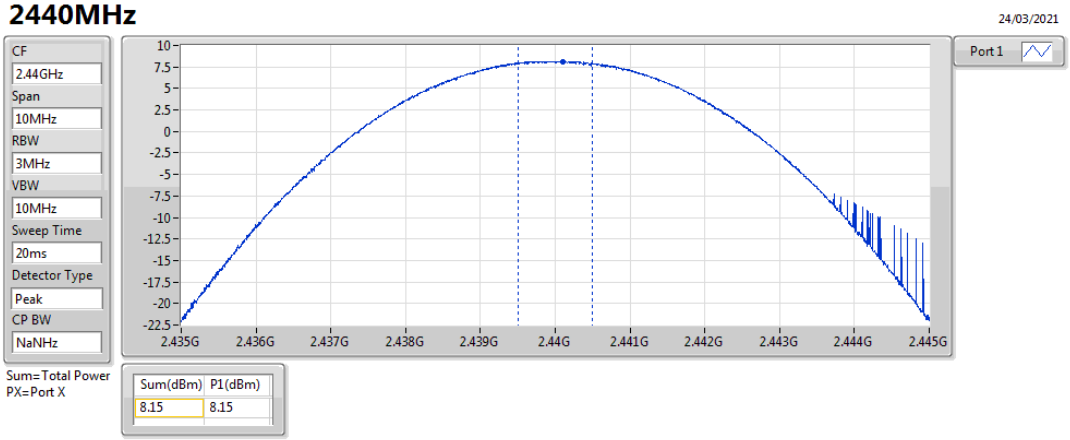
BT-EDR(2Mbps) **PK Power**

2402MHz



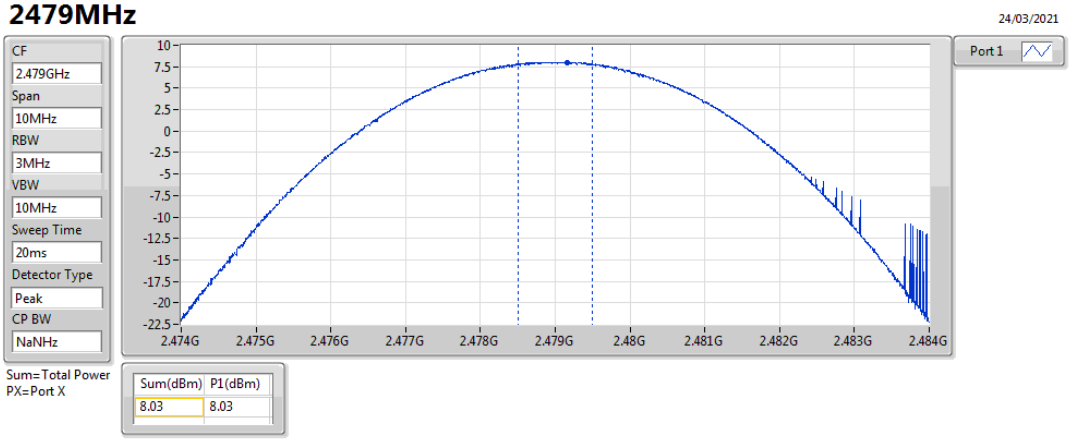
BT-EDR(2Mbps) **PK Power**

2440MHz



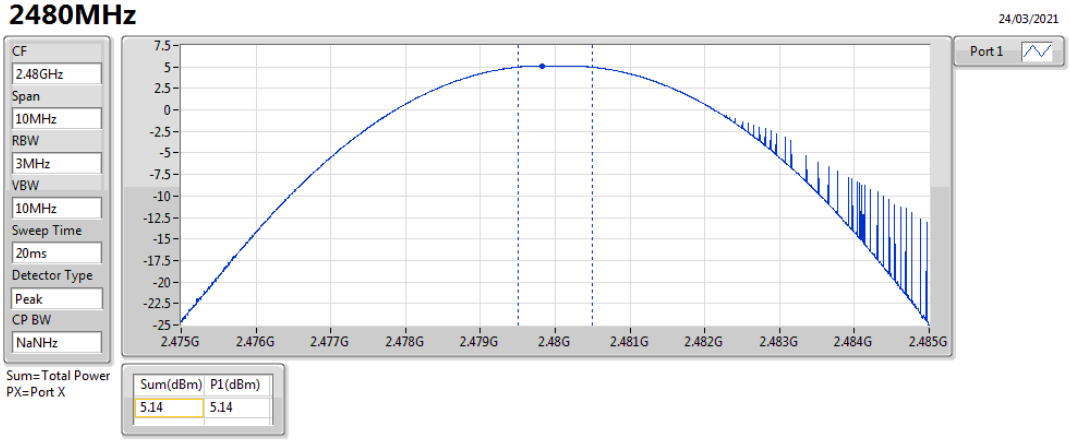
BT-EDR(2Mbps) **PK Power**

2479MHz



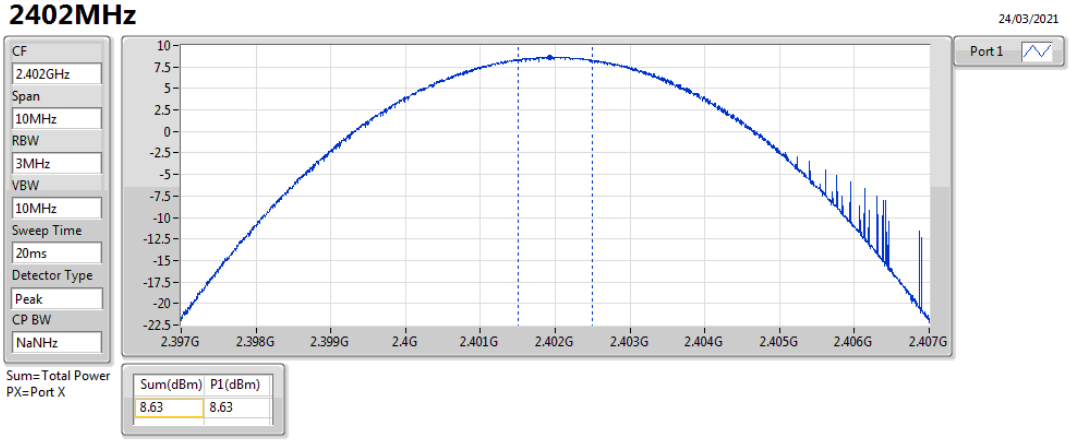
BT-EDR(2Mbps) **PK Power**

2480MHz



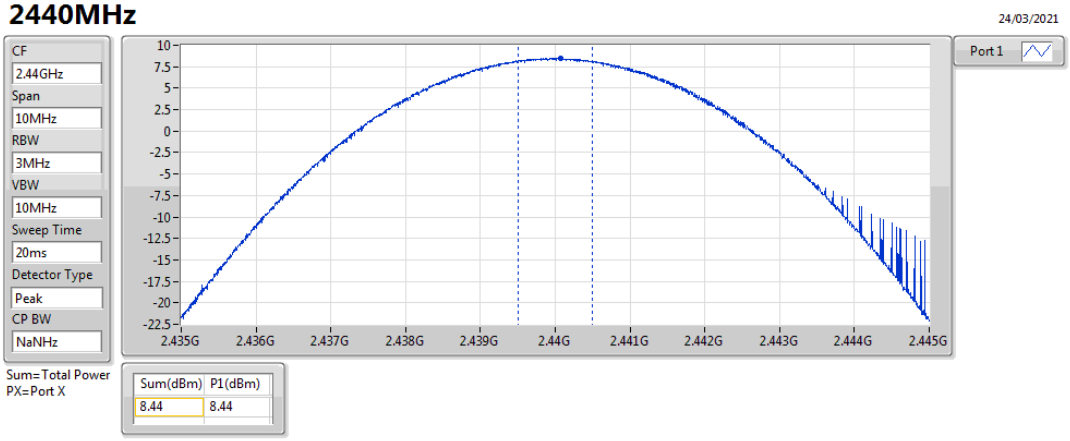
BT-EDR(3Mbps) **PK Power**

2402MHz



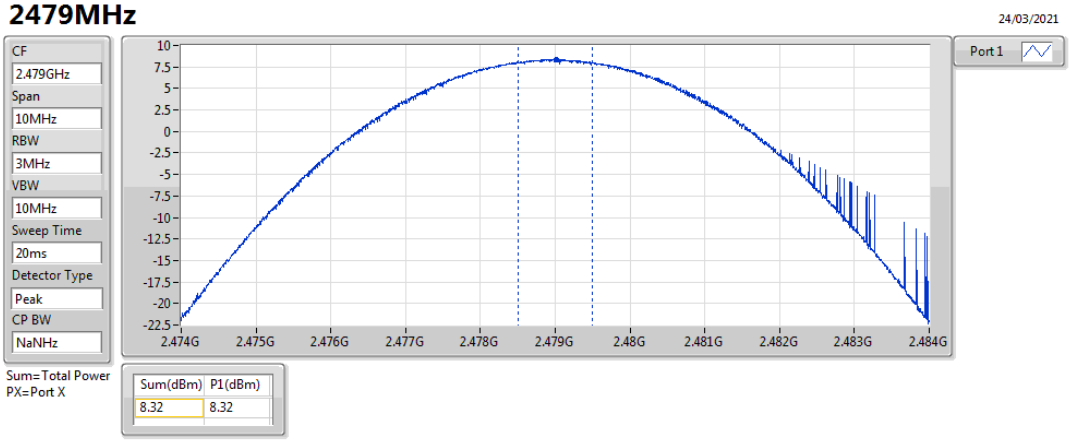
BT-EDR(3Mbps) **PK Power**

2440MHz



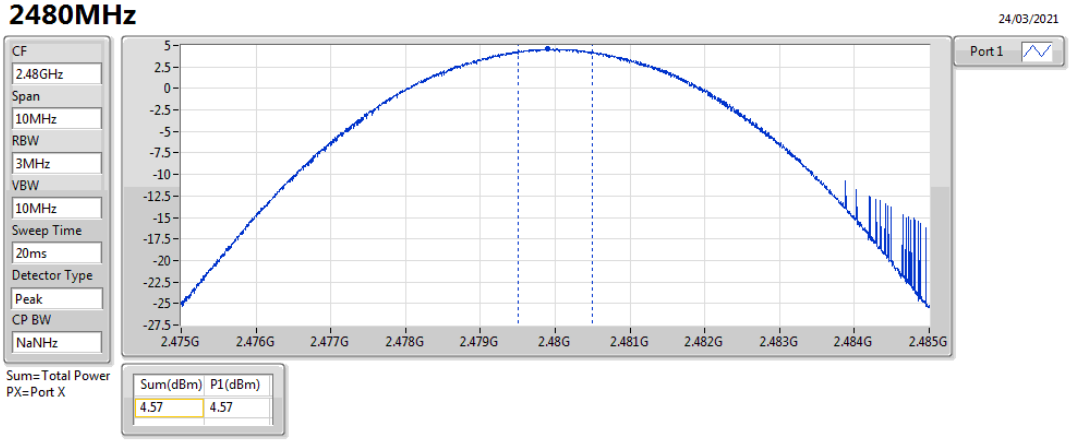
BT-EDR(3Mbps) **PK Power**

2479MHz



BT-EDR(3Mbps) **PK Power**

2480MHz



Summary

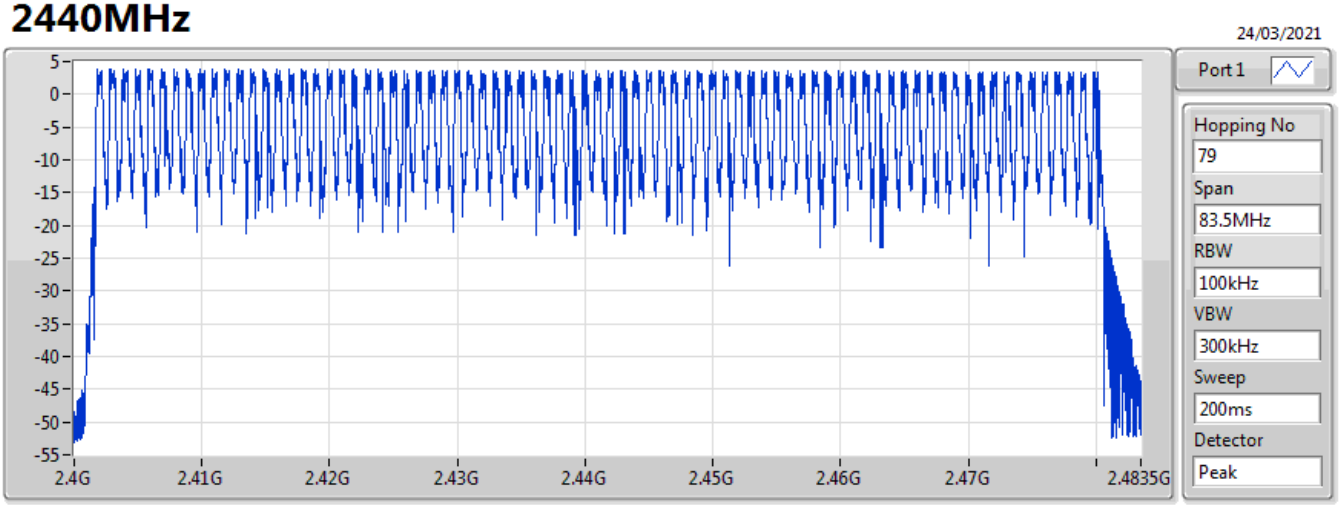
Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79

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) **Hopping Ch**

2440MHz

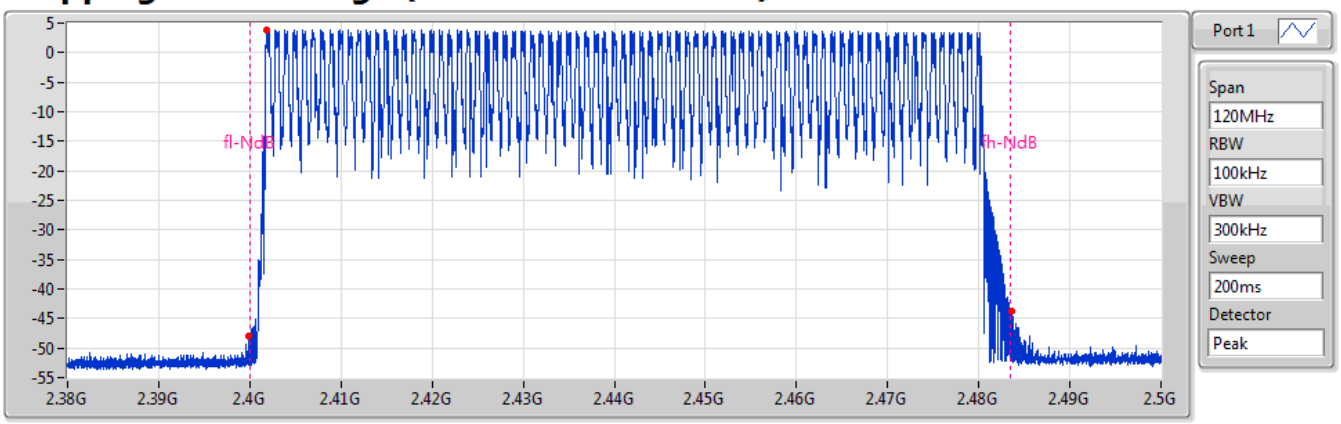


Hopping No	Limit
79	15

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

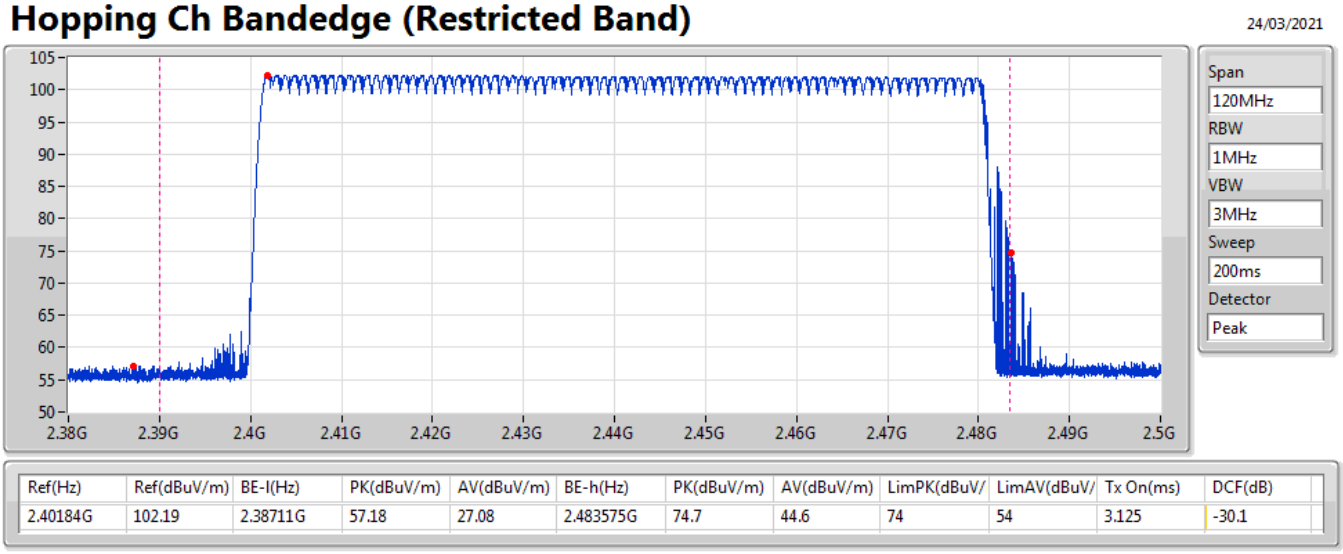


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-16.25	2.401825G	3.75	2.39992G	-47.96	2.483545G	-43.71

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

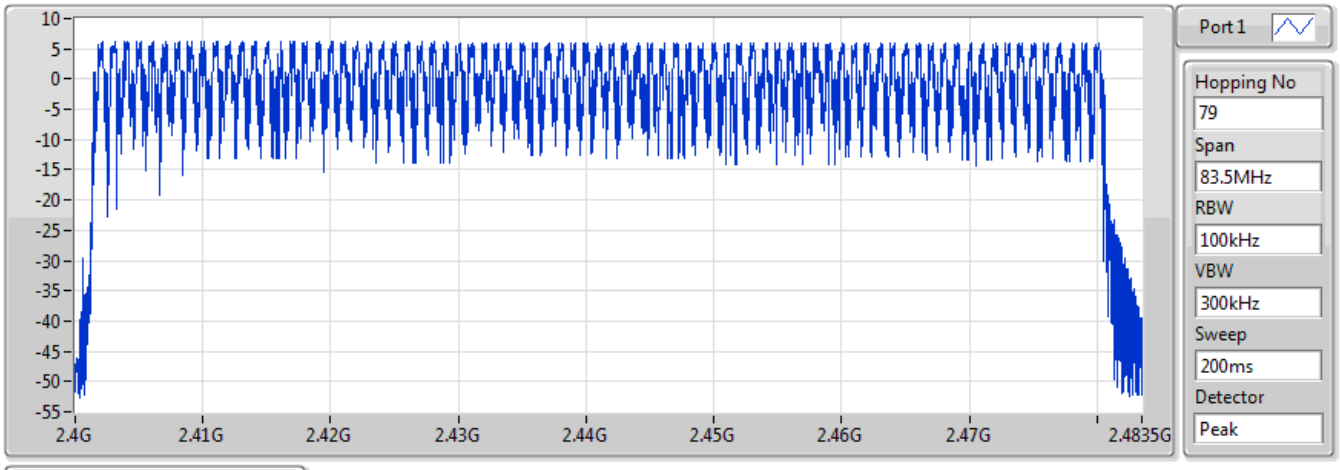


Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.40184G	102.19	2.38711G	57.18	27.08	2.483575G	74.7	44.6	74	54	3.125	-30.1

BT-EDR(2Mbps)

2440MHz

Hopping Ch

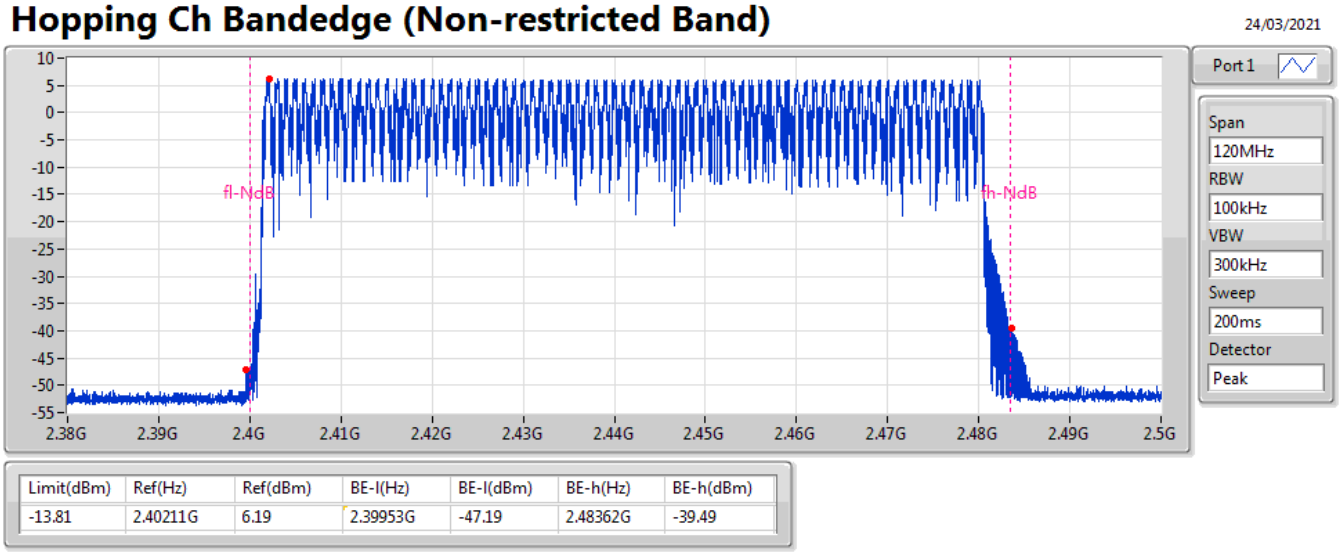


Hopping No	Limit
79	15

BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

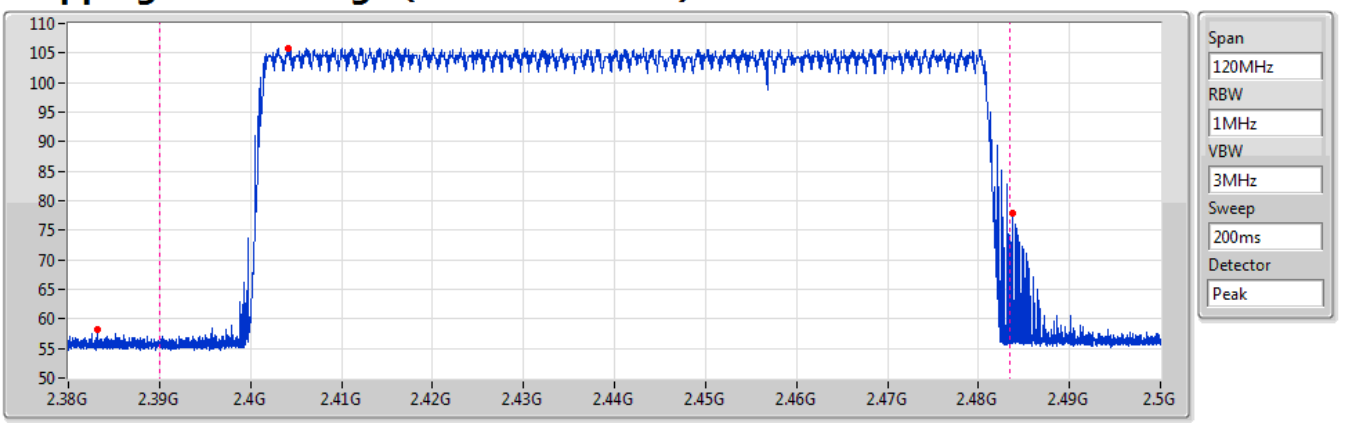


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-13.81	2.40211G	6.19	2.39953G	-47.19	2.48362G	-39.49

BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

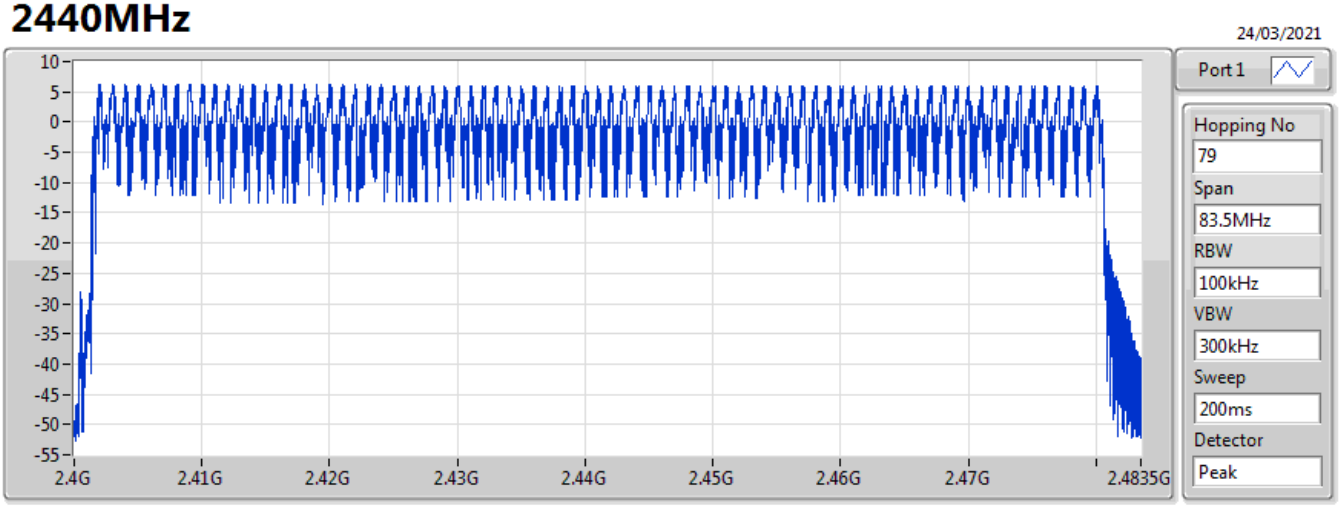


Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.40421G	105.84	2.38312G	58.17	28.07	2.483785G	77.8	47.7	74	54	3.125	-30.1

BT-EDR(3Mbps)

2440MHz

Hopping Ch

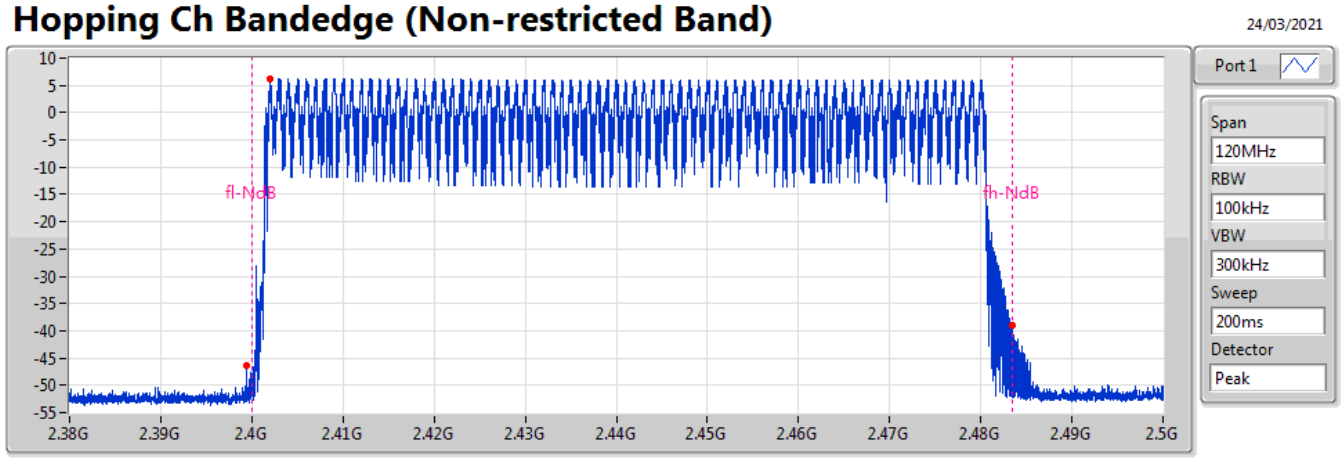


Hopping No	Limit
79	15

BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

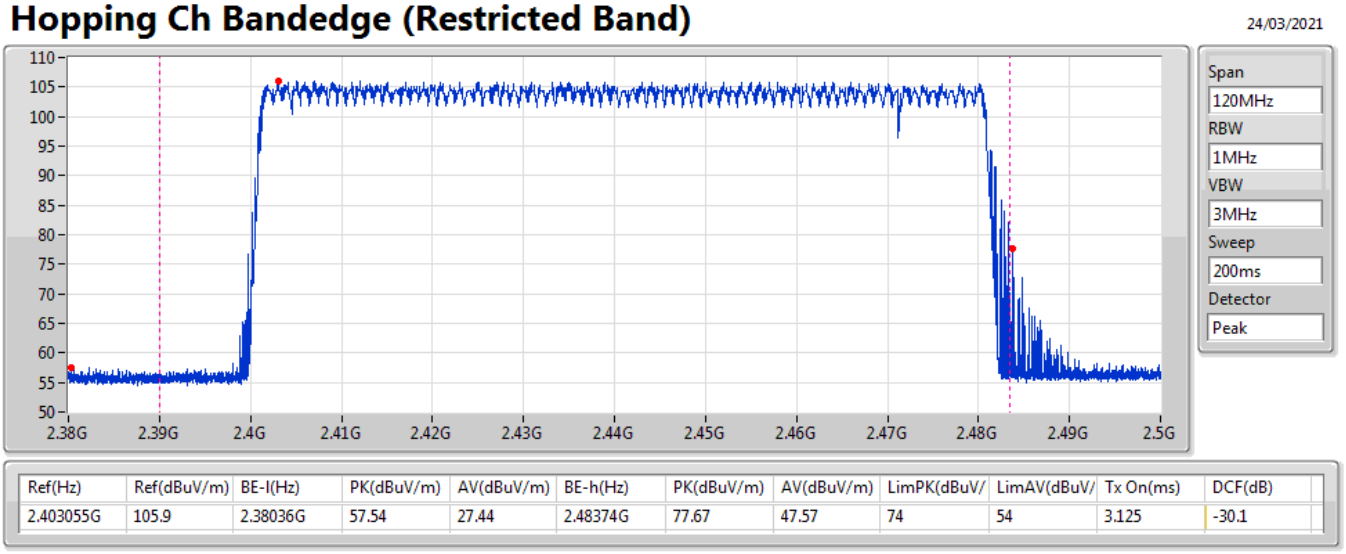


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-13.85	2.40199G	6.15	2.399455G	-46.28	2.48353G	-39.04

BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)



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)
2.403055G	105.9	2.38036G	57.54	27.44	2.48374G	77.67	47.57	74	54	3.125	-30.1

Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	308.15395m
BT-EDR(2Mbps)	308.26055m
BT-EDR(3Mbps)	308.3405m

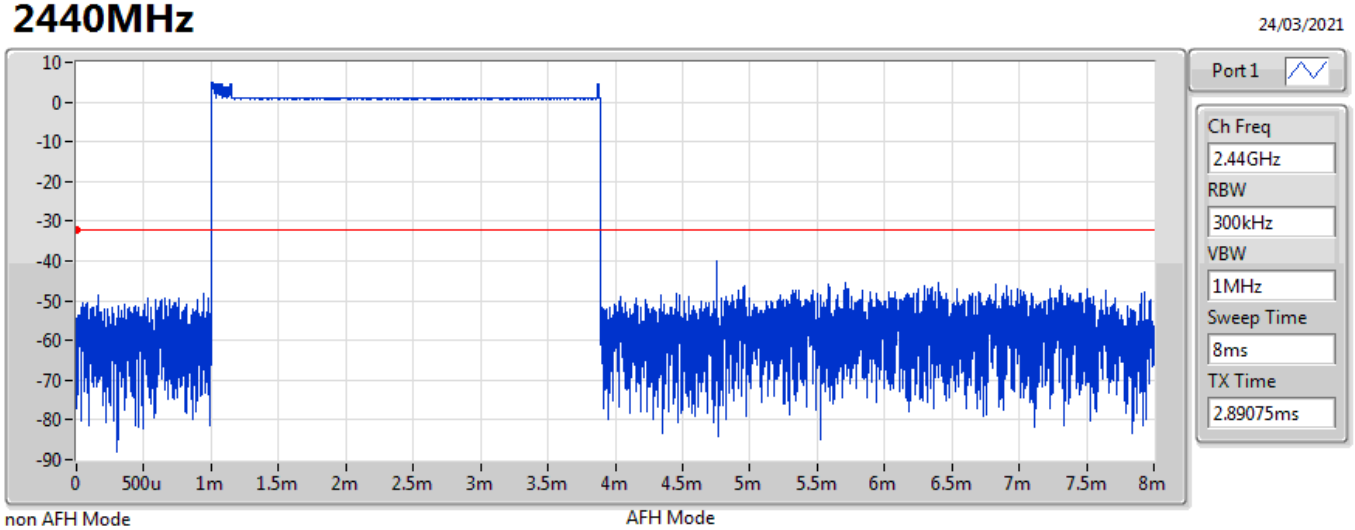
Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.15395m	400m	2.89075m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.26055m	400m	2.89175m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.3405m	400m	2.8925m

BT-BR(1Mbps)

Dwell

2440MHz



non AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.15395m	400m	2.89075m

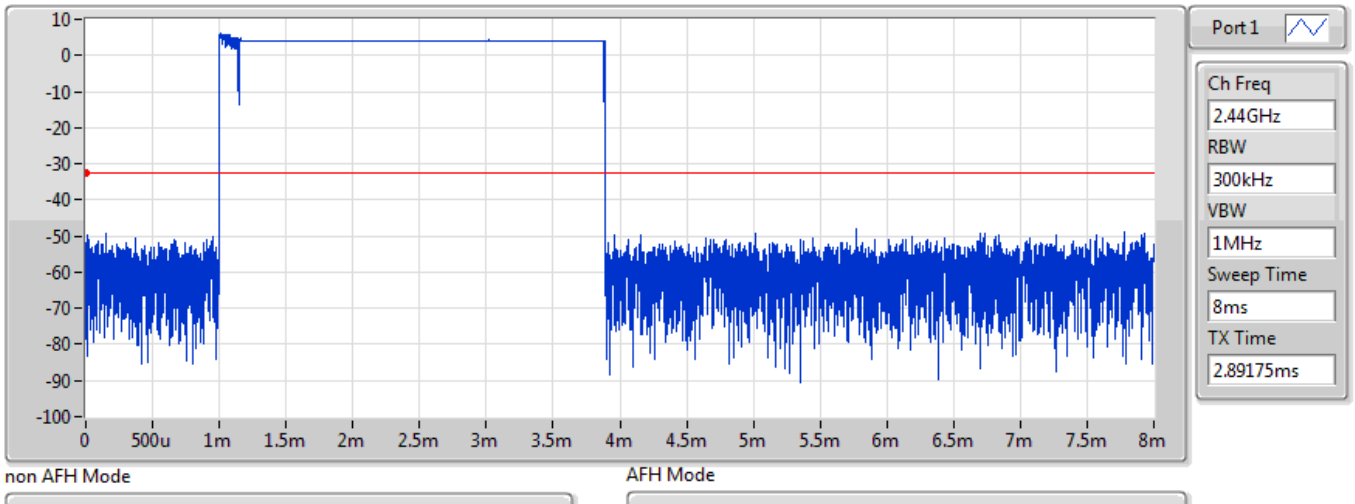
AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.076975m	400m	2.89075m

BT-EDR(2Mbps)

Dwell

2440MHz



non AFH Mode

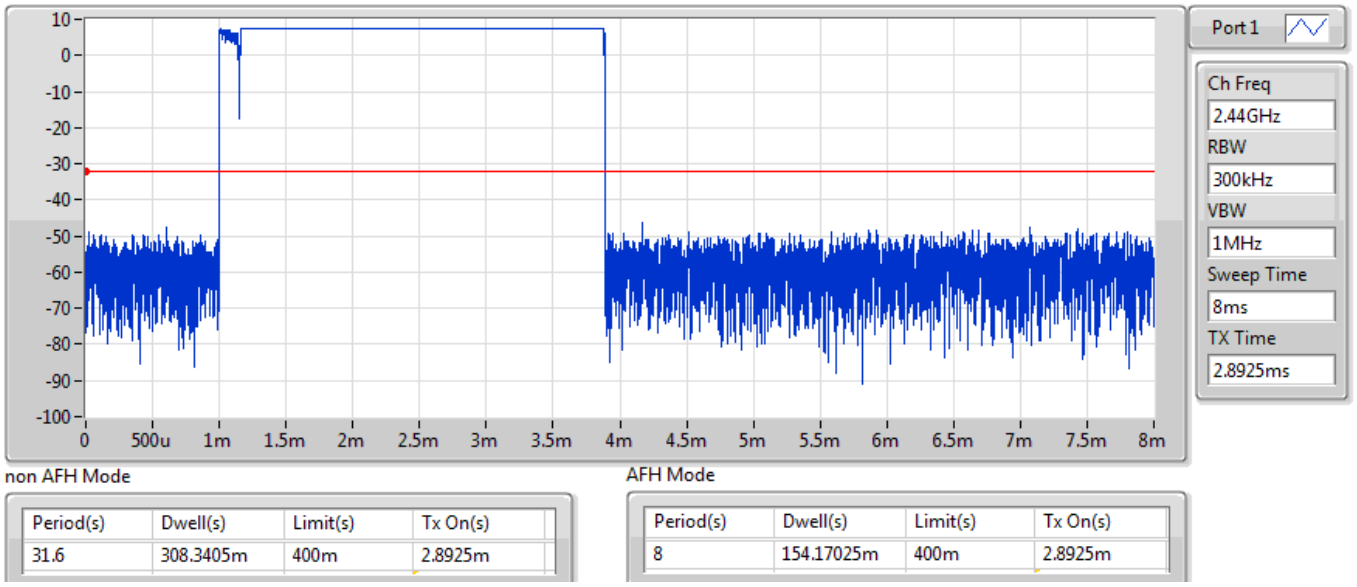
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.26055m	400m	2.89175m

AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.130275m	400m	2.89175m

BT-EDR(3Mbps) **Dwell**

2440MHz



non AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.3405m	400m	2.8925m

AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.17025m	400m	2.8925m

Summary

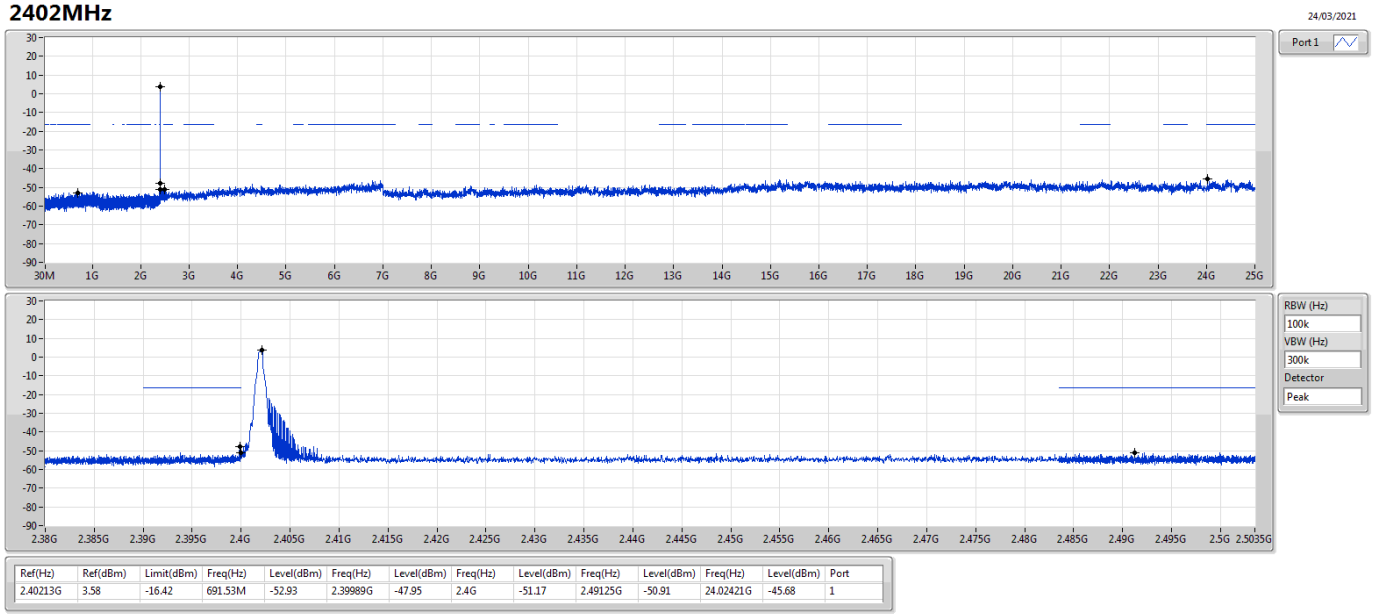
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.47987G	2.96	-17.04	811.67M	-52.22	2.39358G	-51.58	2.4835G	-51.78	2.4836G	-44.70	16.85908G	-45.76	1
BT-EDR(2Mbps)	Pass	2.48003G	5.29	-14.71	2.01134G	-52.30	2.39361G	-52.19	2.4835G	-53.89	2.4835G	-40.74	15.25902G	-46.03	1
BT-EDR(3Mbps)	Pass	2.48008G	4.94	-15.06	1.72494G	-51.92	2.39523G	-51.61	2.4835G	-50.92	2.48367G	-39.79	15.19715G	-45.73	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	2.40213G	3.58	-16.42	691.53M	-52.93	2.39989G	-47.95	2.4G	-51.17	2.49125G	-50.91	24.02421G	-45.68	1
2440MHz	Pass	2.44016G	3.36	-16.64	932.99M	-52.04	2.39858G	-51.69	2.4835G	-53.95	2.4858G	-51.08	15.19153G	-45.77	1
2480MHz	Pass	2.47987G	2.96	-17.04	811.67M	-52.22	2.39358G	-51.58	2.4835G	-51.78	2.4836G	-44.70	16.85908G	-45.76	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40213G	5.79	-14.21	239.74M	-52.78	2.39999G	-46.59	2.4G	-48.48	2.49794G	-51.54	21.74926G	-46.30	1
2440MHz	Pass	2.43983G	5.95	-14.05	751.45M	-52.07	2.39582G	-51.48	2.4835G	-54.13	2.48797G	-50.53	15.1859G	-45.78	1
2480MHz	Pass	2.48003G	5.29	-14.71	2.01134G	-52.30	2.39361G	-52.19	2.4835G	-53.89	2.4835G	-40.74	15.25902G	-46.03	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	5.69	-14.31	730.59M	-51.62	2.39997G	-44.19	2.4G	-46.18	2.49394G	-50.19	24.46571G	-45.01	1
2440MHz	Pass	2.44016G	5.93	-14.07	908.61M	-52.28	2.39033G	-52.24	2.4835G	-53.92	2.48751G	-51.42	24.1142G	-46.21	1
2480MHz	Pass	2.48008G	4.94	-15.06	1.72494G	-51.92	2.39523G	-51.61	2.4835G	-50.92	2.48367G	-39.79	15.19715G	-45.73	1

BT-BR(1Mbps) **CSE NdB**

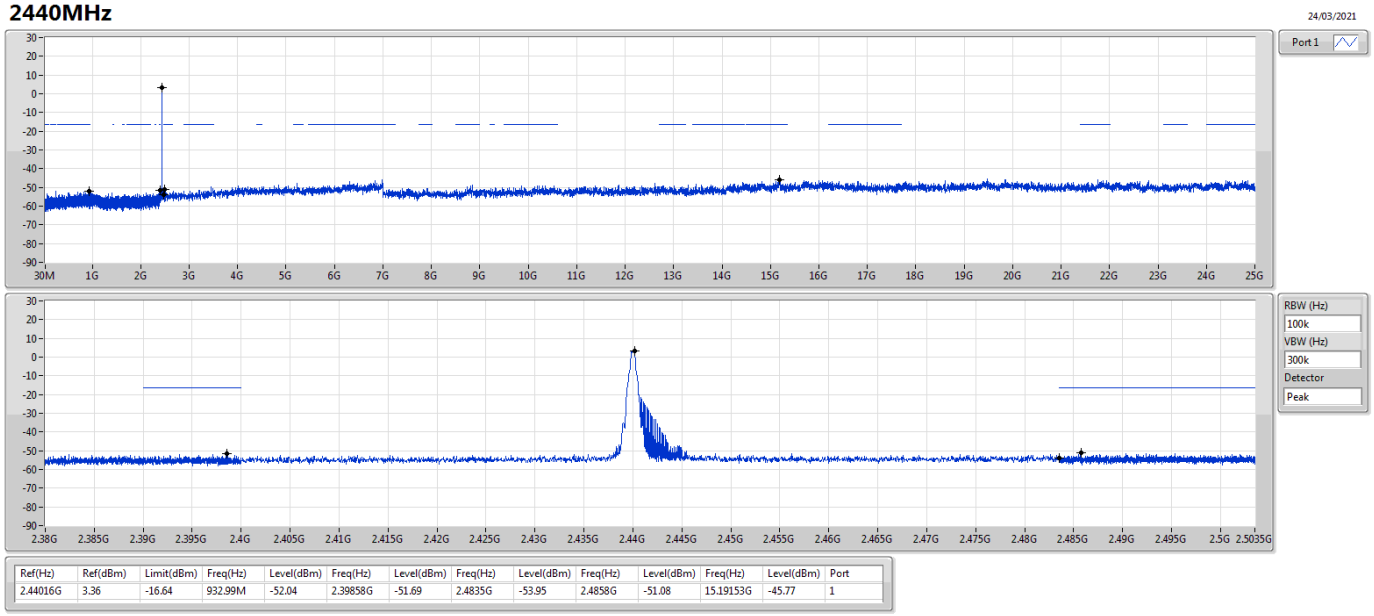
2402MHz



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
2.40213G	3.58	-16.42	691.53M	-52.93	2.39989G	-47.95	2.4G	-51.17	2.49125G	-50.91	24.02421G	-45.68	1

BT-BR(1Mbps) **CSE NdB**

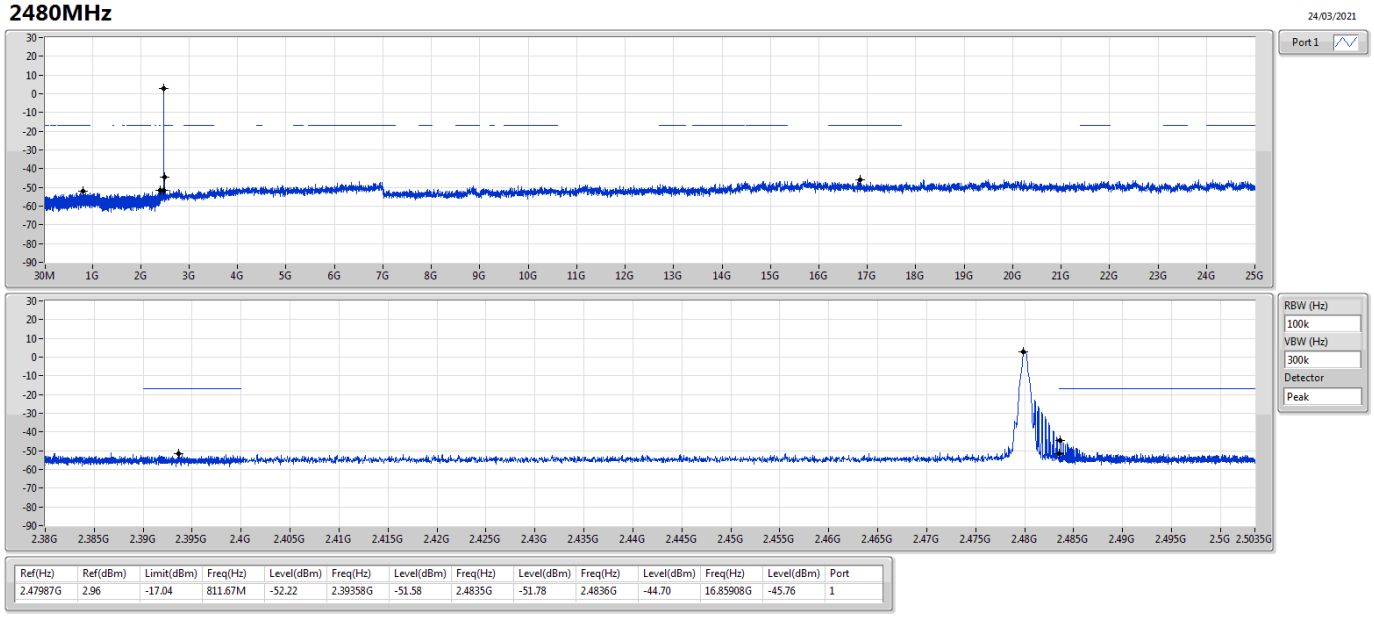
2440MHz



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
2.44016G	3.36	-16.64	932.99M	-52.04	2.39858G	-51.69	2.4835G	-53.95	2.4858G	-51.08	15.19153G	-45.77	1

BT-BR(1Mbps) **CSE NdB**

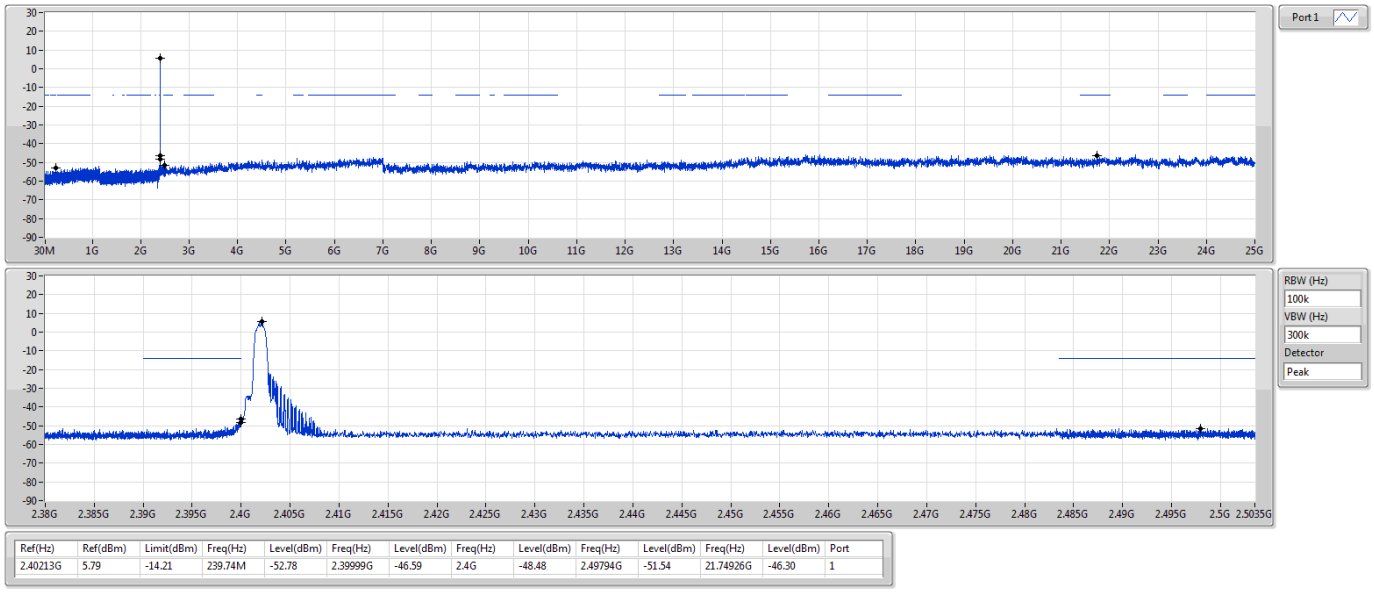
2480MHz



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
2.47987G	2.96	-17.04	811.67M	-52.22	2.39358G	-51.58	2.4835G	-51.78	2.4836G	-44.70	16.85908G	-45.76	1

BT-EDR(2Mbps) **CSE NdB**

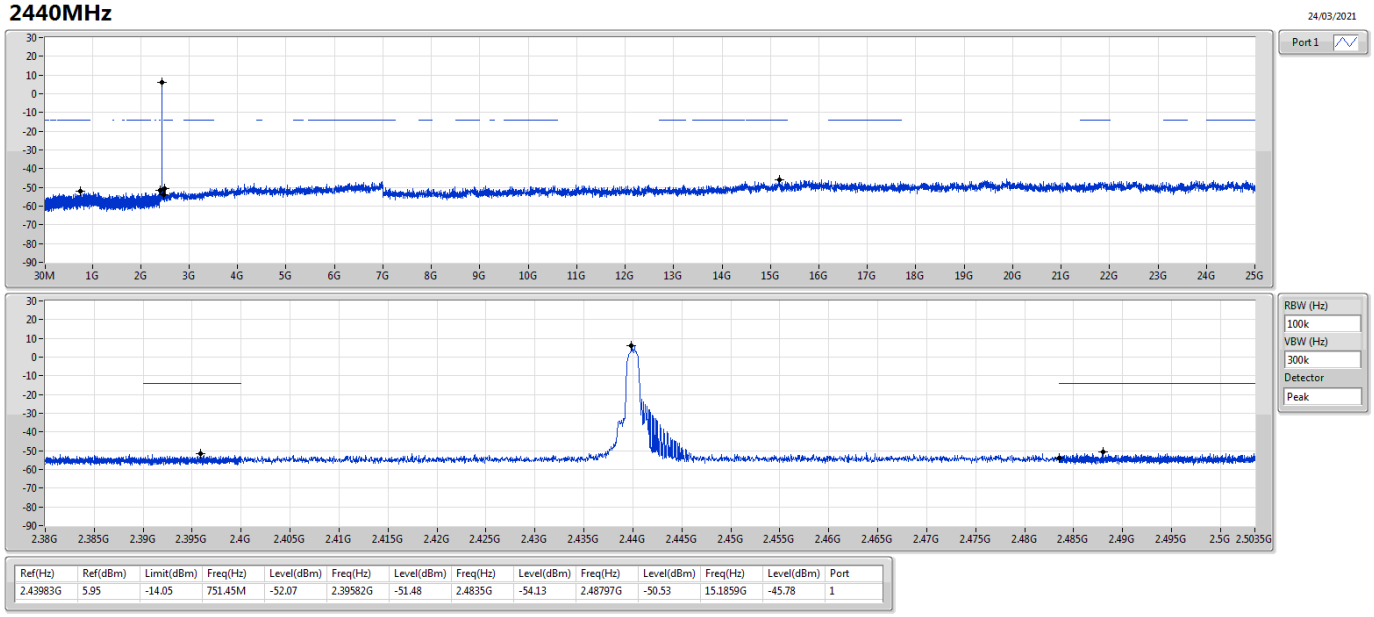
2402MHz



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
2.40213G	5.79	-14.21	239.74M	-52.78	2.39999G	-46.59	2.4G	-48.48	2.49794G	-51.54	21.74926G	-46.30	1

BT-EDR(2Mbps) **CSE NdB**

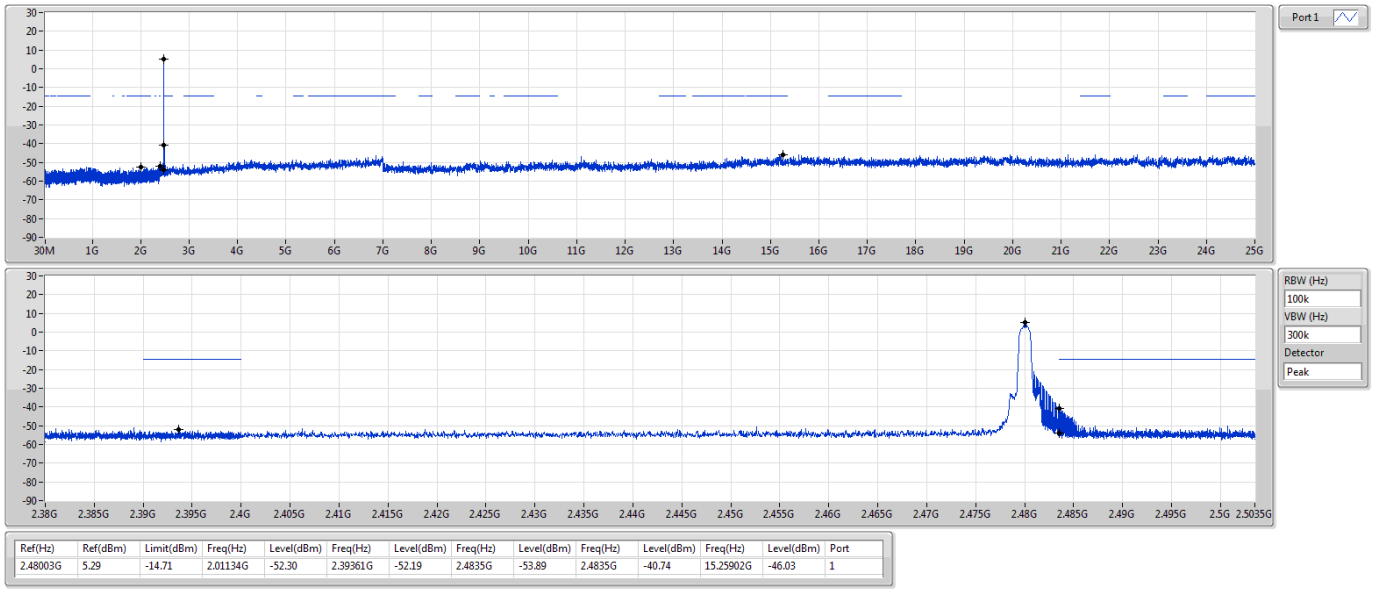
2440MHz



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
2.43983G	5.95	-14.05	751.45M	-52.07	2.39582G	-51.48	2.4835G	-54.13	2.48797G	-50.53	15.1859G	-45.78	1

BT-EDR(2Mbps) **CSE NdB**

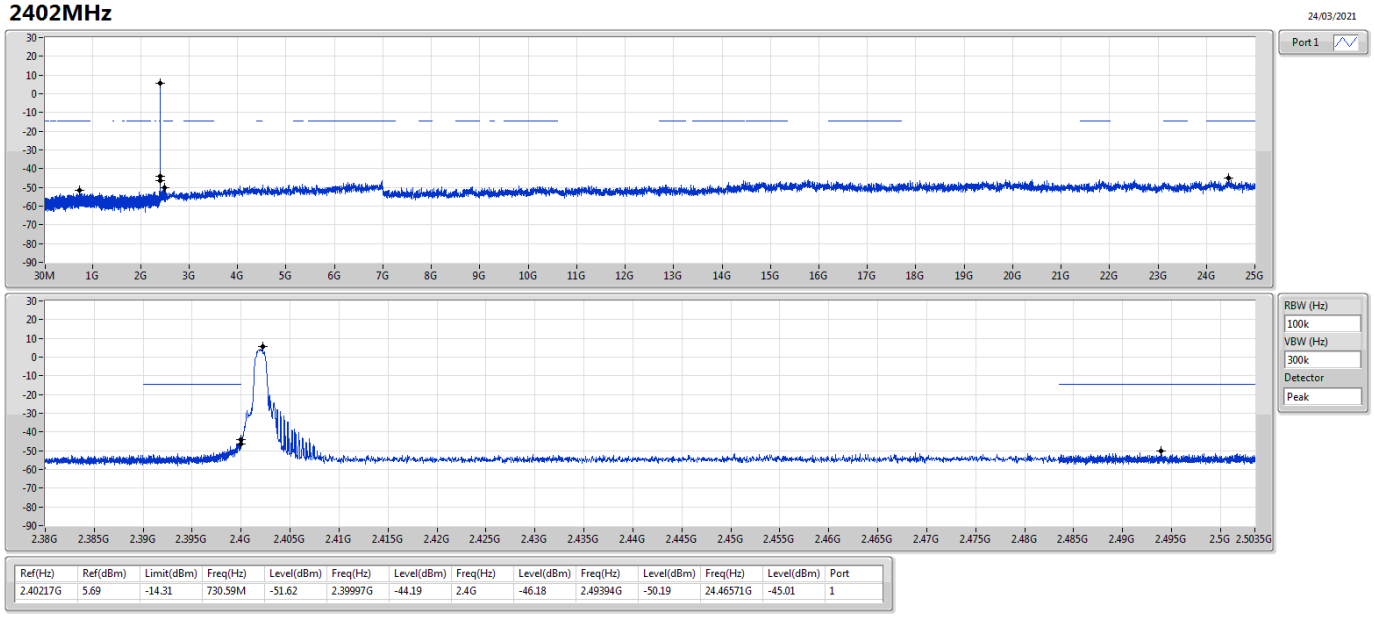
2480MHz



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
2.48003G	5.29	-14.71	2.01134G	-52.30	2.39361G	-52.19	2.4835G	-53.89	2.4835G	-40.74	15.25902G	-46.03	1

BT-EDR(3Mbps) **CSE NdB**

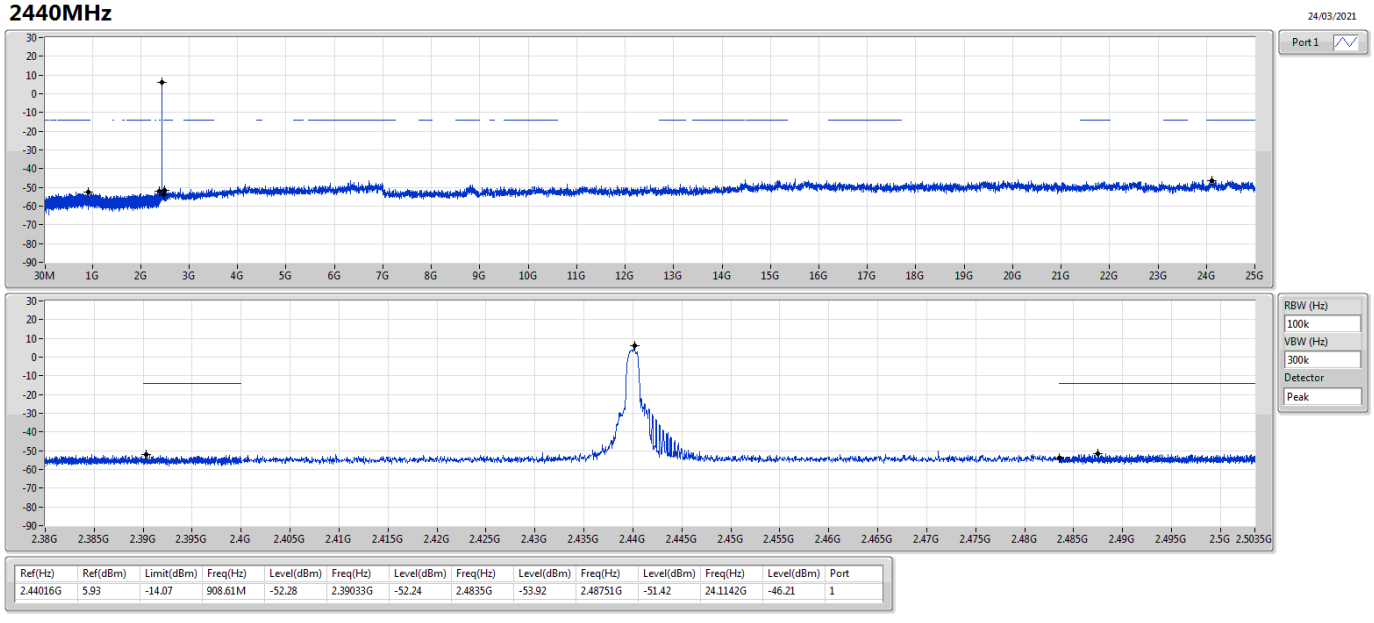
2402MHz



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
2.40217G	5.69	-14.31	730.59M	-51.62	2.39997G	-44.19	2.4G	-46.18	2.49394G	-50.19	24.46571G	-45.01	1

BT-EDR(3Mbps) **CSE NdB**

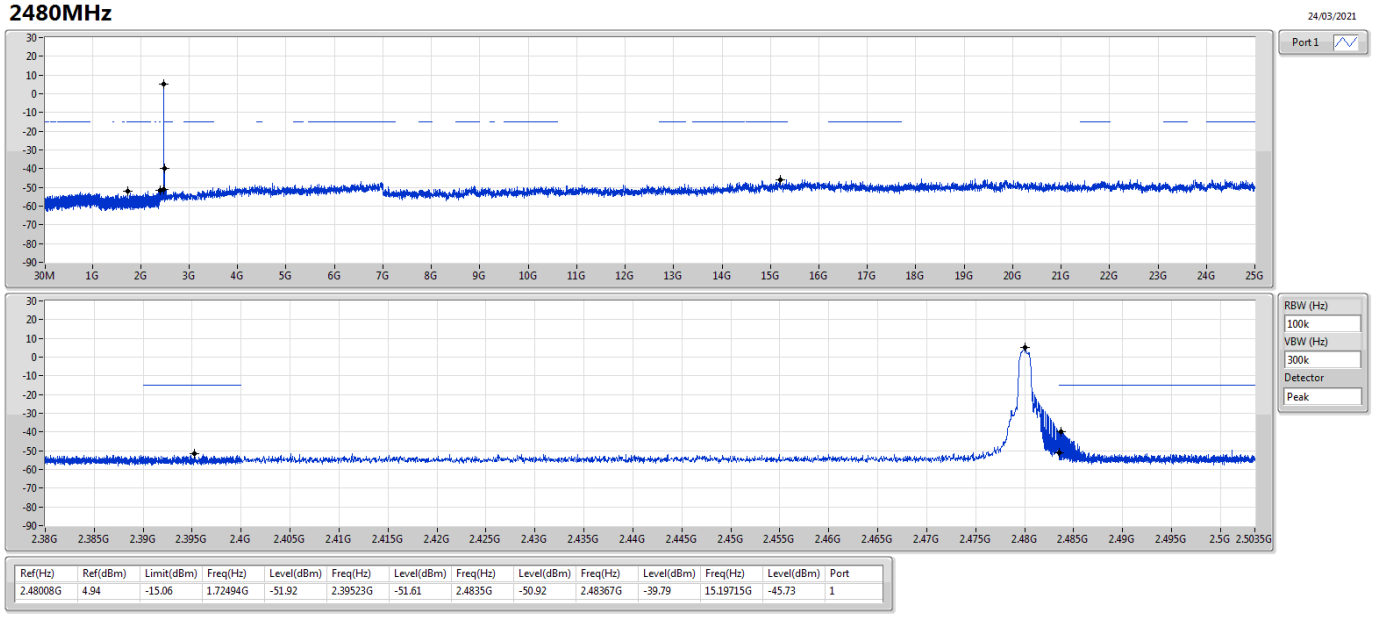
2440MHz



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
2.44016G	5.93	-14.07	908.61M	-52.28	2.39033G	-52.24	2.4835G	-53.92	2.48751G	-51.42	24.1142G	-46.21	1

BT-EDR(3Mbps) **CSE NdB**

2480MHz



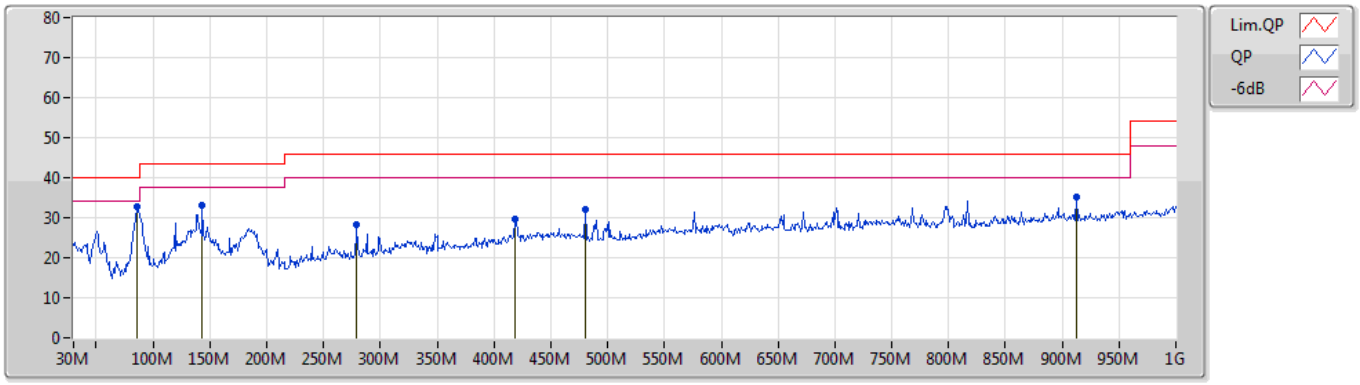
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.48008G	4.94	-15.06	1.72494G	-51.92	2.39523G	-51.61	2.4835G	-50.92	2.48367G	-39.79	15.19715G	-45.73	1

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	PK	85.29M	36.27	40.00	-3.73	Horizontal

Mode 3

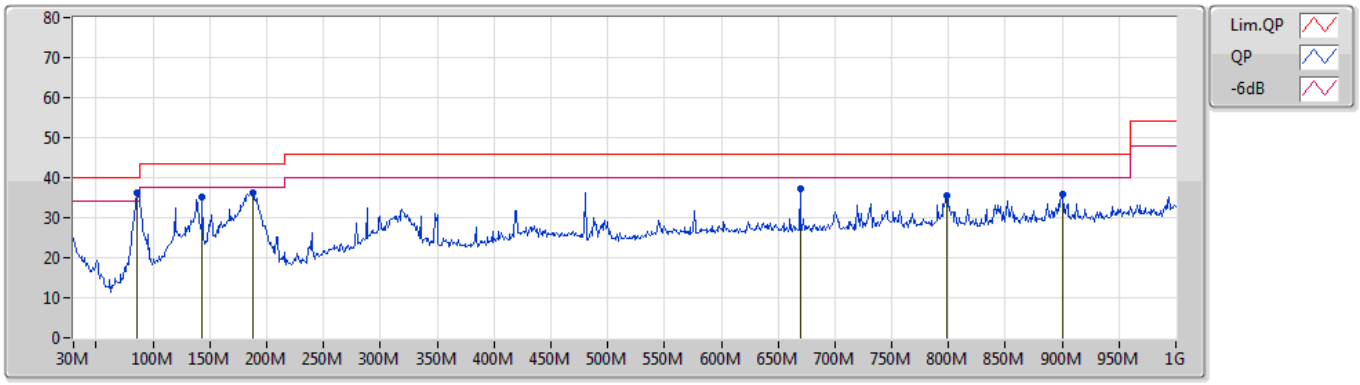
20/04/2021



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	85.29M	32.59	40.00	-7.41	-17.22	3	Vertical	159	3.00	"Worst"	49.81	13.56	1.00	31.78
PK	143.49M	33.13	43.50	-10.37	-14.00	3	Vertical	272	1.00	-	47.13	16.64	1.32	31.96
PK	279.29M	28.25	46.00	-17.75	-11.27	3	Vertical	305	1.00	-	39.52	18.64	2.08	31.99
PK	418M	29.79	46.00	-16.21	-7.07	3	Vertical	172	1.50	-	36.86	22.45	2.64	32.16
PK	480.08M	32.24	46.00	-13.76	-6.39	3	Vertical	76	1.50	-	38.63	23.10	2.82	32.31
PK	912.7M	35.03	46.00	-10.97	-1.81	3	Vertical	56	1.50	-	36.84	26.18	4.30	32.29

Mode 3

20/04/2021



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	85.29M	36.27	40.00	-3.73	-17.22	3	Horizontal	220	2.00	"Worst"	53.49	13.56	1.00	31.78
PK	143.49M	35.17	43.50	-8.33	-14.00	3	Horizontal	228	2.00	-	49.17	16.64	1.32	31.96
PK	188.11M	36.04	43.50	-7.46	-15.56	3	Horizontal	193	2.00	-	51.60	14.75	1.58	31.89
PK	669.23M	37.25	46.00	-8.75	-4.57	3	Horizontal	328	1.50	-	41.82	24.54	3.38	32.49
PK	798.24M	35.55	46.00	-10.45	-2.93	3	Horizontal	249	1.25	-	38.48	25.56	3.79	32.28
PK	900.09M	36.01	46.00	-9.99	-1.83	3	Horizontal	318	1.25	-	37.84	26.22	4.30	32.35

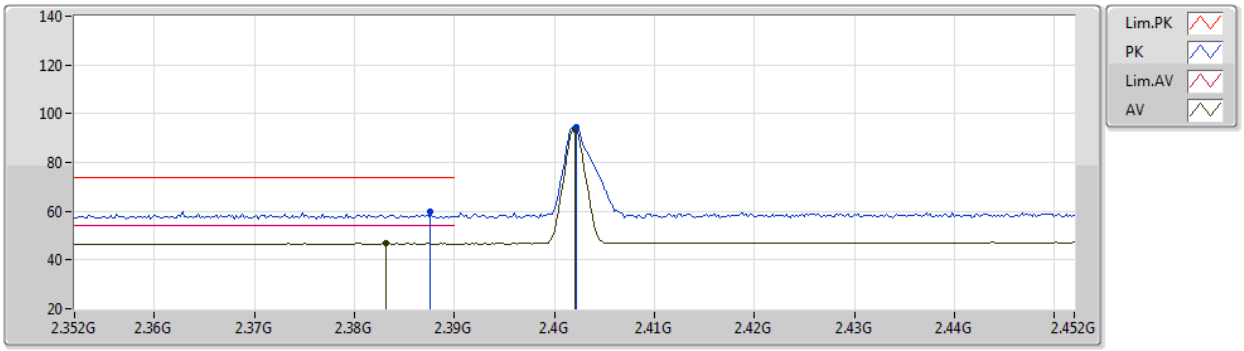
Summary

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-EDR(3Mbps)	Pass	PK	2.4835G	72.57	74.00	-1.43	3	Horizontal	348	2.20	-

BT-BR(1Mbps)

2402MHz_TX

16/03/2021



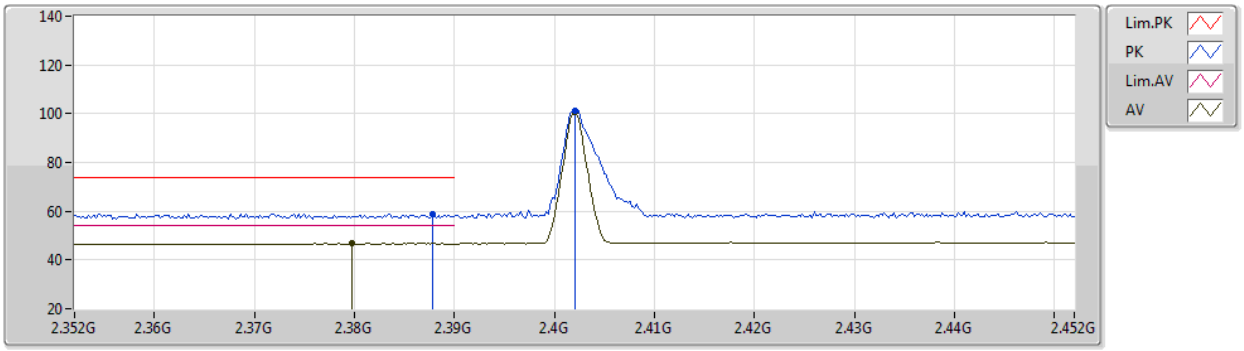
EUT Y_1TX
Setting 12
02-B-R-5

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	2.3876G	60.00	74.00	-14.00	29.29	3	Vertical	73	2.79	-	28.30	2.41	-
AV	2.3832G	46.77	54.00	-7.23	16.06	3	Vertical	73	2.79	-	28.30	2.41	-
PK	2.4022G	94.38	Inf	-Inf	63.68	3	Vertical	73	2.79	-	28.30	2.40	-
AV	2.402G	93.50	Inf	-Inf	62.80	3	Vertical	73	2.79	-	28.30	2.40	-

BT-BR(1Mbps)

2402MHz_TX

16/03/2021



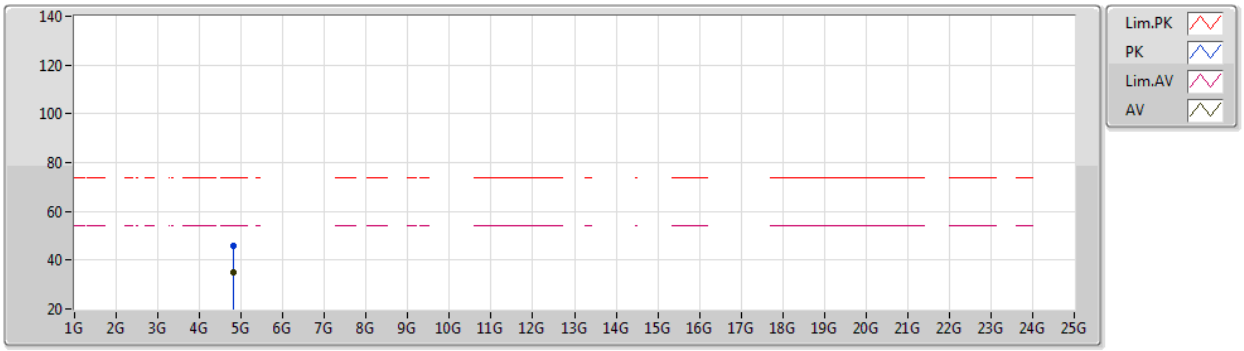
EUT Y_1TX
Setting 12
02-B-R-5

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	2.3878G	59.03	74.00	-14.97	28.32	3	Horizontal	160	2.28	-	28.30	2.41	-
AV	2.3798G	46.74	54.00	-7.26	16.03	3	Horizontal	160	2.28	-	28.30	2.41	-
PK	2.402G	101.41	Inf	-Inf	70.71	3	Horizontal	160	2.28	-	28.30	2.40	-
AV	2.402G	100.49	Inf	-Inf	69.79	3	Horizontal	160	2.28	-	28.30	2.40	-

BT-BR(1Mbps)

2402MHz_TX

16/03/2021



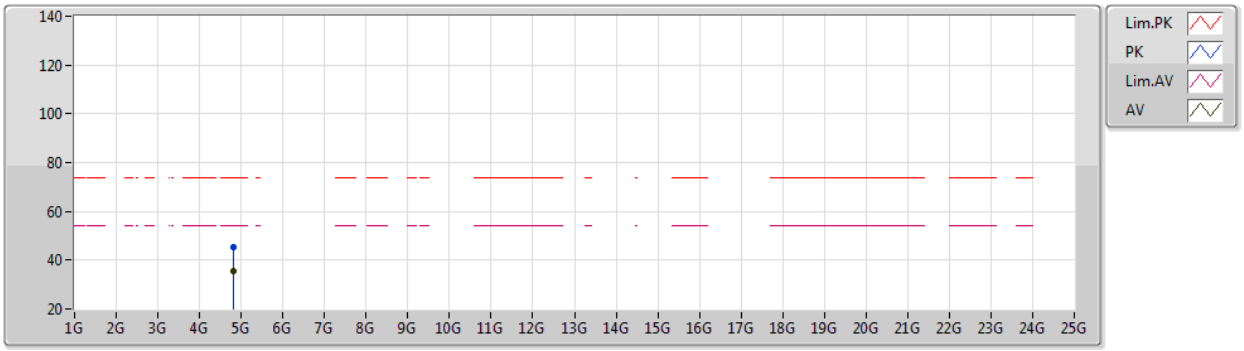
EUT Y_1TX
Setting 12
02-B-R-5

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	4.80354G	45.89	74.00	-28.11	40.15	3	Vertical	162	1.87	-	32.81	4.70	31.77
AV	4.80398G	35.16	54.00	-18.84	29.41	3	Vertical	162	1.87	-	32.82	4.70	31.77

BT-BR(1Mbps)

2402MHz_TX

16/03/2021



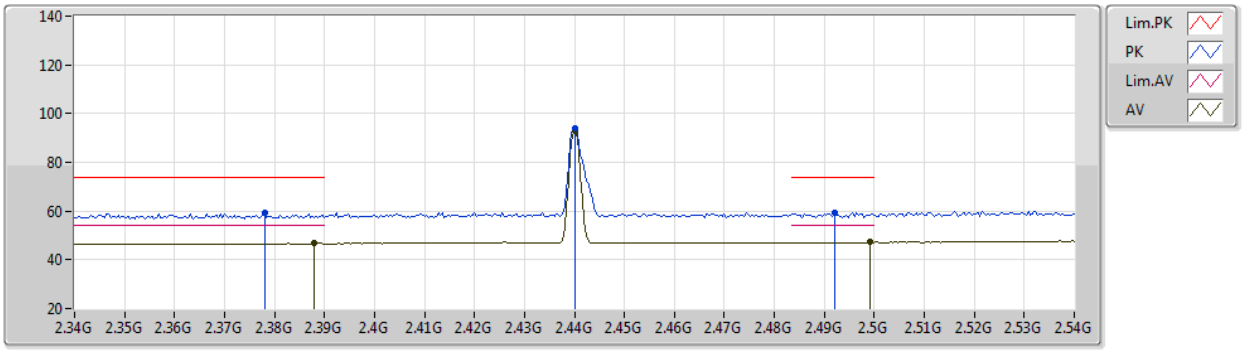
EUT Y_1TX
Setting 12
02-B-R-5

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	4.80378G	45.57	74.00	-28.43	39.82	3	Horizontal	157	2.02	-	32.82	4.70	31.77
AV	4.80398G	35.28	54.00	-18.72	29.53	3	Horizontal	157	2.02	-	32.82	4.70	31.77

BT-BR(1Mbps)

2440MHz_TX

16/03/2021



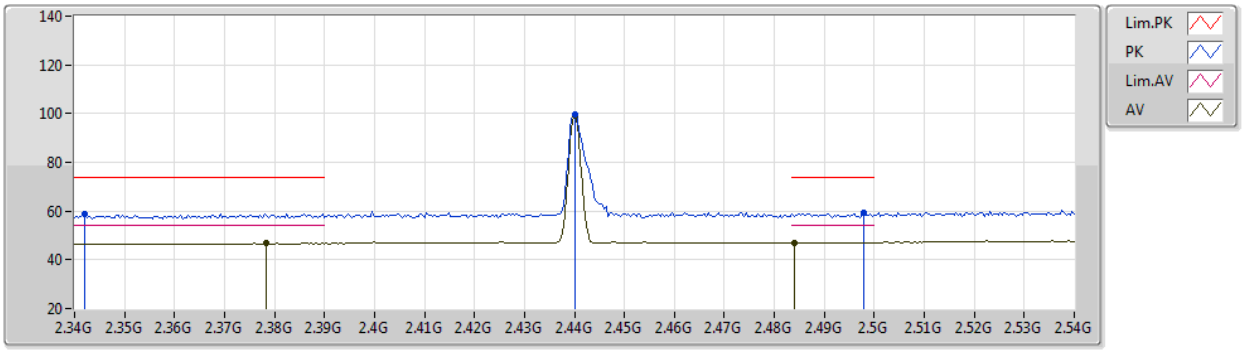
EUT Y_1TX
Setting 12
02-B-R-5

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	2.378G	59.20	74.00	-14.80	28.49	3	Vertical	86	2.73	-	28.30	2.41	-
AV	2.388G	46.66	54.00	-7.34	15.95	3	Vertical	86	2.73	-	28.30	2.41	-
PK	2.44G	93.92	Inf	-Inf	63.12	3	Vertical	86	2.73	-	28.38	2.42	-
AV	2.44G	93.04	Inf	-Inf	62.24	3	Vertical	86	2.73	-	28.38	2.42	-
PK	2.492G	59.29	74.00	-14.71	28.27	3	Vertical	86	2.73	-	28.57	2.45	-
AV	2.4992G	47.16	54.00	-6.84	16.11	3	Vertical	86	2.73	-	28.60	2.45	-

BT-BR(1Mbps)

2440MHz_TX

16/03/2021



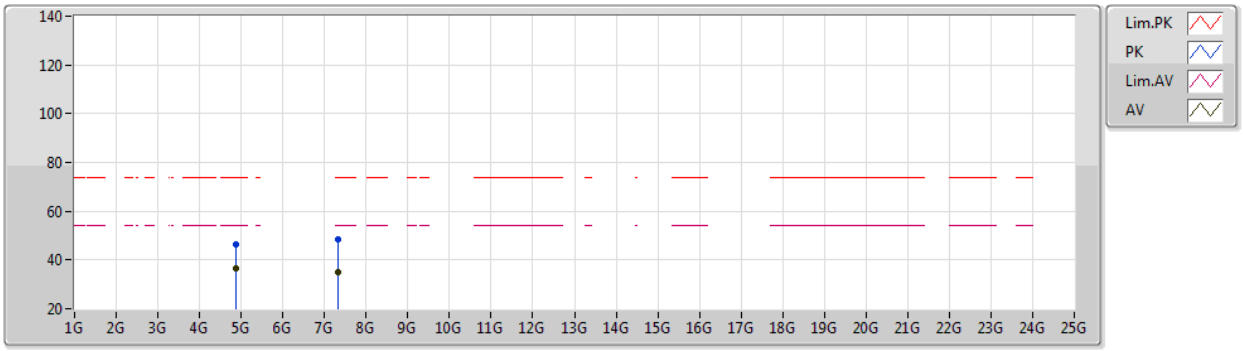
EUT Y_1TX
Setting 12
02-B-R-5

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	2.342G	59.00	74.00	-15.00	28.32	3	Horizontal	195	1.80	-	28.25	2.43	-
AV	2.3784G	46.75	54.00	-7.25	16.04	3	Horizontal	195	1.80	-	28.30	2.41	-
PK	2.44G	99.87	Inf	-Inf	69.07	3	Horizontal	195	1.80	-	28.38	2.42	-
AV	2.44G	99.01	Inf	-Inf	68.21	3	Horizontal	195	1.80	-	28.38	2.42	-
PK	2.498G	59.11	74.00	-14.89	28.07	3	Horizontal	195	1.80	-	28.59	2.45	-
AV	2.484G	47.14	54.00	-6.86	16.16	3	Horizontal	195	1.80	-	28.54	2.44	-

BT-BR(1Mbps)

2440MHz_TX

16/03/2021



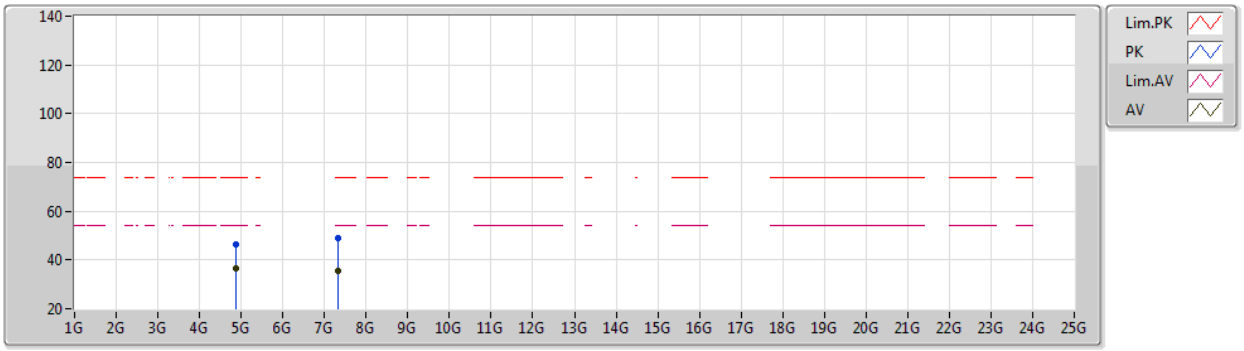
EUT Y_1TX
Setting 12
02-B-R-5

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	4.88016G	46.53	74.00	-27.47	40.51	3	Vertical	144	2.09	-	33.12	4.70	31.80
AV	4.88G	36.38	54.00	-17.62	30.36	3	Vertical	144	2.09	-	33.12	4.70	31.80
PK	7.31646G	48.58	74.00	-25.42	38.82	3	Vertical	182	2.19	-	36.43	5.76	32.43
AV	7.32006G	35.25	54.00	-18.75	25.48	3	Vertical	182	2.19	-	36.44	5.76	32.43

BT-BR(1Mbps)

2440MHz_TX

16/03/2021



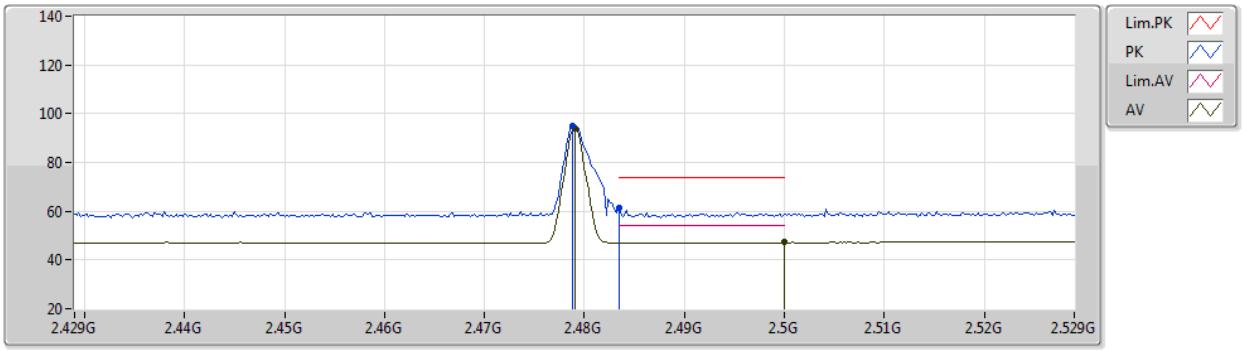
EUT Y_1TX
Setting 12
02-B-R-5

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	4.8798G	46.40	74.00	-27.60	40.38	3	Horizontal	91	1.61	-	33.12	4.70	31.80
AV	4.87992G	36.73	54.00	-17.27	30.71	3	Horizontal	91	1.61	-	33.12	4.70	31.80
PK	7.31996G	48.74	74.00	-25.26	38.97	3	Horizontal	140	1.77	-	36.44	5.76	32.43
AV	7.32032G	35.46	54.00	-18.54	25.69	3	Horizontal	140	1.77	-	36.44	5.76	32.43

BT-BR(1Mbps)

2479MHz_TX

16/03/2021



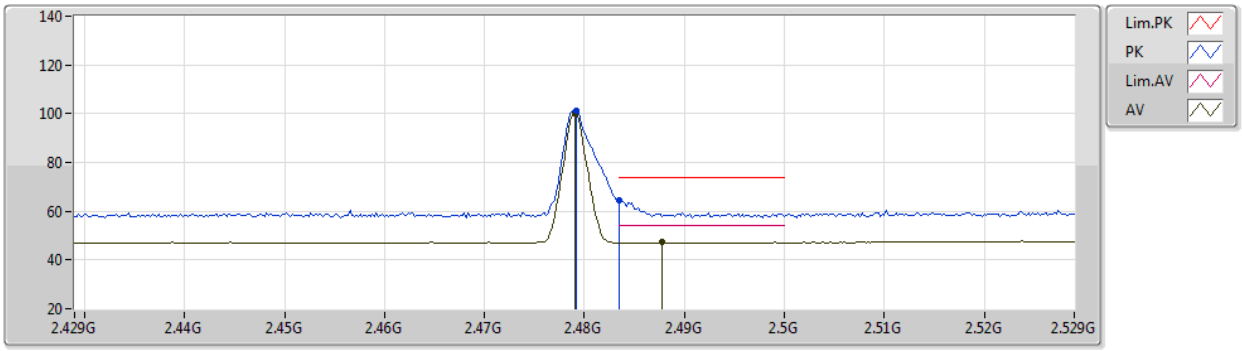
EUT Y_1TX
Setting 12
02-B-R-5

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	2.4788G	94.92	Inf	-Inf	63.96	3	Vertical	124	2.86	-	28.52	2.44	-
AV	2.479G	94.00	Inf	-Inf	63.04	3	Vertical	124	2.86	-	28.52	2.44	-
PK	2.4835G	61.16	74.00	-12.84	30.19	3	Vertical	124	2.86	-	28.53	2.44	-
AV	2.5G	47.19	54.00	-6.81	16.14	3	Vertical	124	2.86	-	28.60	2.45	-

BT-BR(1Mbps)

2479MHz_TX

16/03/2021



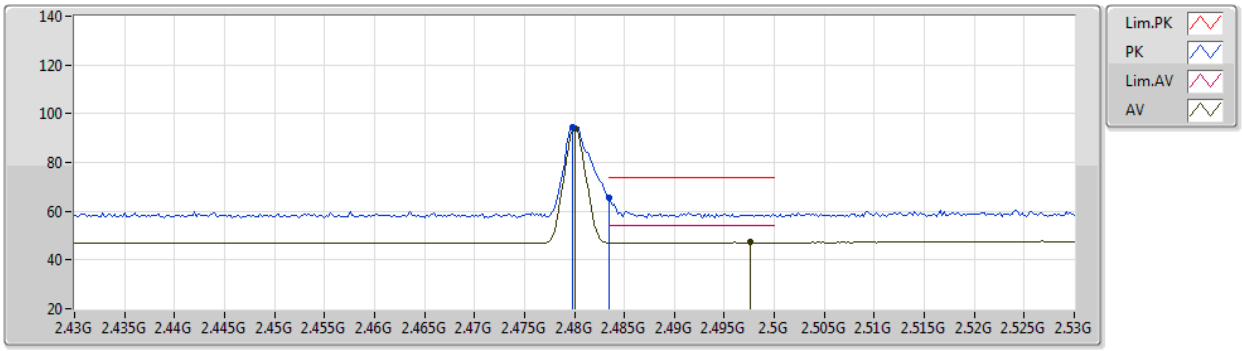
EUT Y_1TX
Setting 12
02-B-R-5

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	2.4792G	101.24	Inf	-Inf	70.28	3	Horizontal	339	2.20	-	28.52	2.44	-
AV	2.479G	100.38	Inf	-Inf	69.42	3	Horizontal	339	2.20	-	28.52	2.44	-
PK	2.4835G	64.41	74.00	-9.59	33.44	3	Horizontal	339	2.20	-	28.53	2.44	-
AV	2.4878G	47.20	54.00	-6.80	16.21	3	Horizontal	339	2.20	-	28.55	2.44	-

BT-BR(1Mbps)

2480MHz_TX

16/03/2021



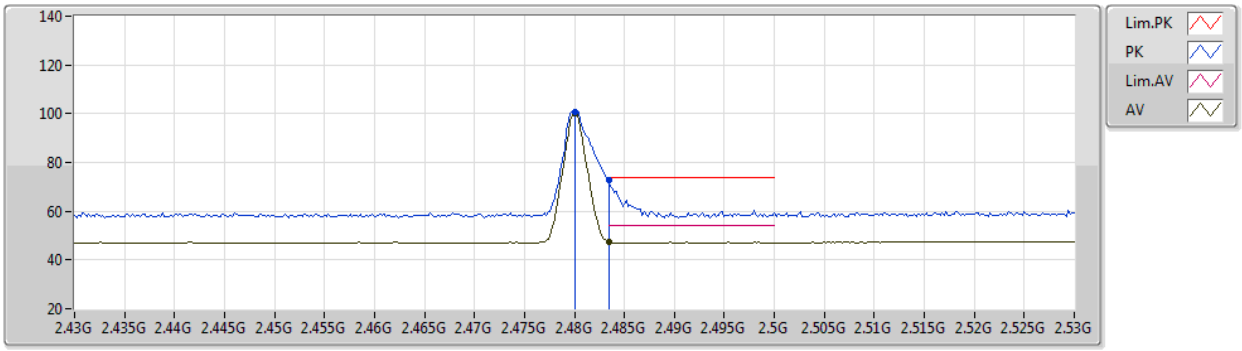
EUT Y_1TX
Setting 4
02-B-R-5

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	2.4798G	94.71	Inf	-Inf	63.75	3	Vertical	124	2.86	-	28.52	2.44	-
AV	2.48G	93.81	Inf	-Inf	62.85	3	Vertical	124	2.86	-	28.52	2.44	-
PK	2.4835G	65.30	74.00	-8.70	34.33	3	Vertical	124	2.86	-	28.53	2.44	-
AV	2.4976G	47.24	54.00	-6.76	16.20	3	Vertical	124	2.86	-	28.59	2.45	-

BT-BR(1Mbps)

2480MHz_TX

16/03/2021



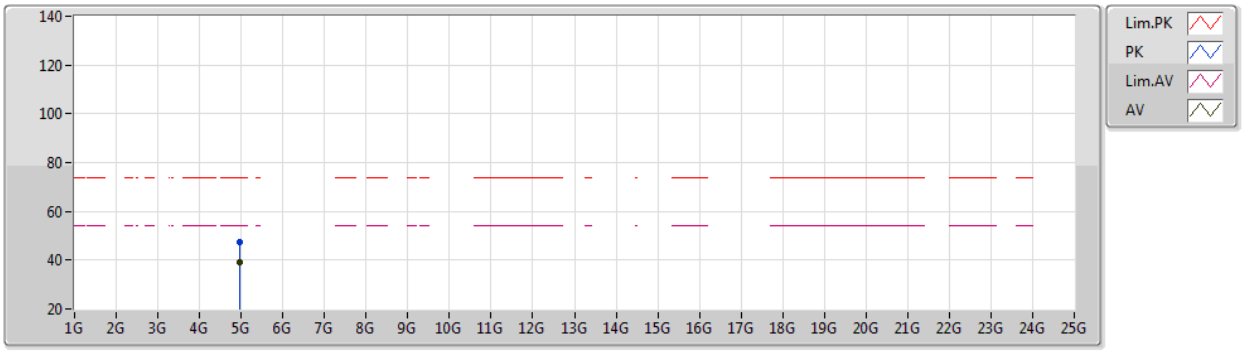
EUT Y_1TX
Setting 4
02-B-R-5

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	100.91	Inf	-Inf	69.95	3	Horizontal	341	2.21	-	28.52	2.44	-
AV	2.48G	99.99	Inf	-Inf	69.03	3	Horizontal	341	2.21	-	28.52	2.44	-
PK	2.4835G	72.54	74.00	-1.46	41.57	3	Horizontal	341	2.21	-	28.53	2.44	-
AV	2.4835G	47.46	54.00	-6.54	16.49	3	Horizontal	341	2.21	-	28.53	2.44	-

BT-BR(1Mbps)

2480MHz_TX

16/03/2021



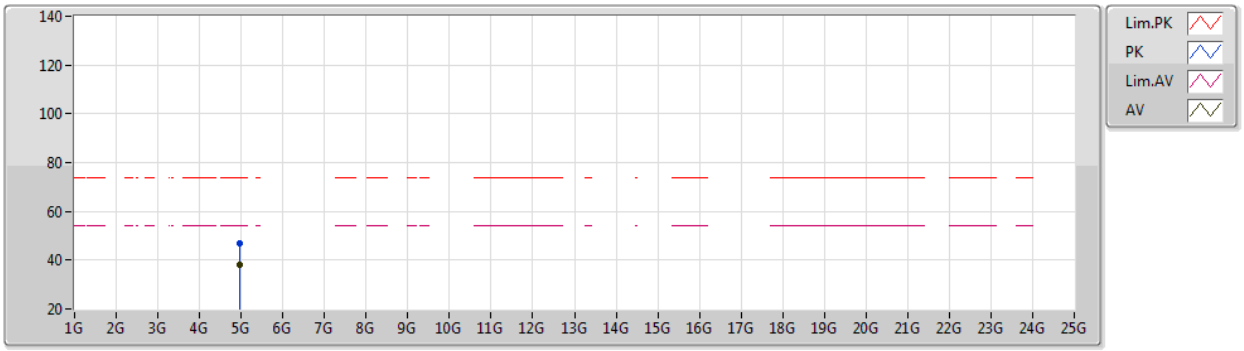
EUT Y_1TX
Setting 4
02-B-R-5

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	4.95974G	47.21	74.00	-26.79	41.12	3	Vertical	321	2.60	-	33.22	4.70	31.83
AV	4.95998G	39.02	54.00	-14.98	32.93	3	Vertical	321	2.60	-	33.22	4.70	31.83

BT-BR(1Mbps)

2480MHz_TX

16/03/2021



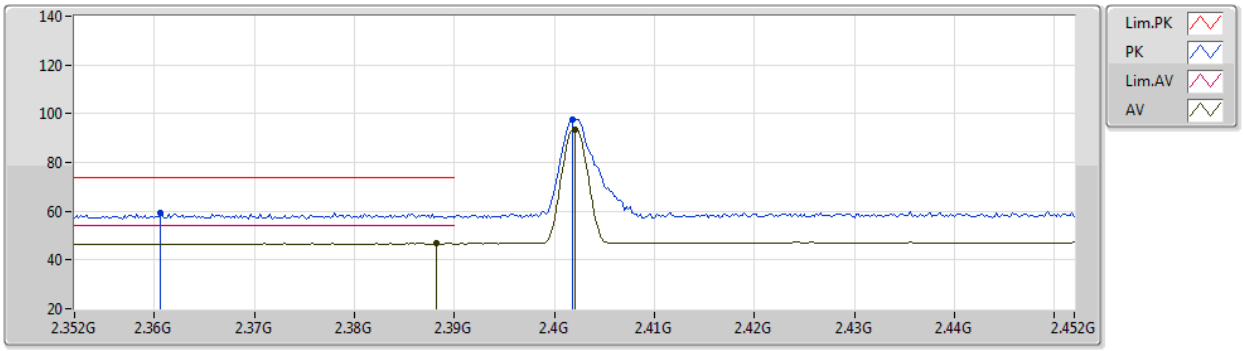
EUT Y_1TX
Setting 4
02-B-R-5

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	4.96026G	47.04	74.00	-26.96	40.95	3	Horizontal	30	2.25	-	33.22	4.70	31.83
AV	4.95996G	37.90	54.00	-16.10	31.81	3	Horizontal	30	2.25	-	33.22	4.70	31.83

BT-EDR(3Mbps)

2402MHz_TX

16/03/2021



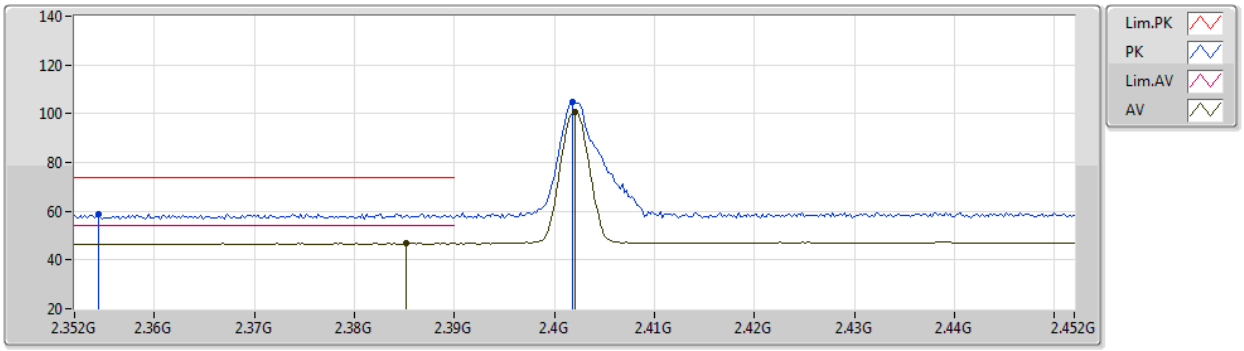
EUT Y_1TX
Setting 10
02-B-R-5

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	2.3606G	59.47	74.00	-14.53	28.75	3	Vertical	73	2.79	-	28.30	2.42	-
AV	2.3882G	46.80	54.00	-7.20	16.09	3	Vertical	73	2.79	-	28.30	2.41	-
PK	2.4018G	97.78	Inf	-Inf	67.08	3	Vertical	73	2.79	-	28.30	2.40	-
AV	2.402G	93.61	Inf	-Inf	62.91	3	Vertical	73	2.79	-	28.30	2.40	-

BT-EDR(3Mbps)

2402MHz_TX

16/03/2021



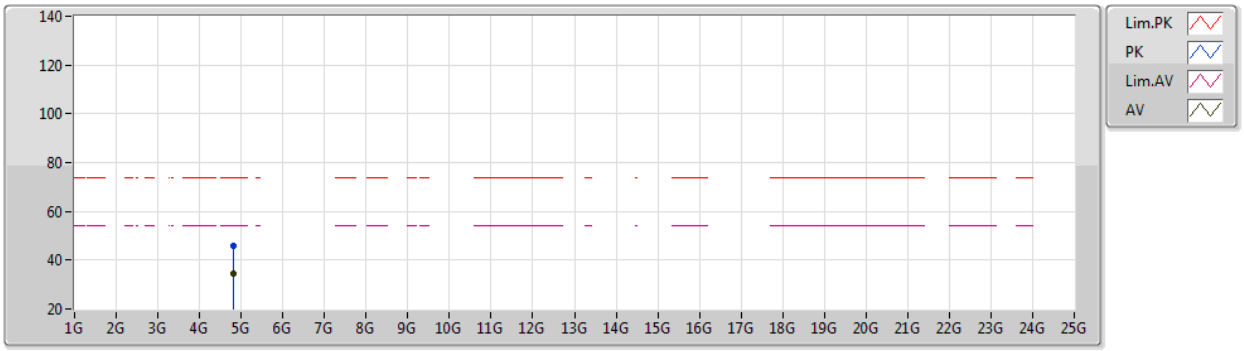
EUT Y_1TX
Setting 10
02-B-R-5

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	2.3544G	58.97	74.00	-15.03	28.25	3	Horizontal	162	2.27	-	28.30	2.42	-
AV	2.3852G	46.77	54.00	-7.23	16.06	3	Horizontal	162	2.27	-	28.30	2.41	-
PK	2.4018G	104.61	Inf	-Inf	73.91	3	Horizontal	162	2.27	-	28.30	2.40	-
AV	2.402G	100.50	Inf	-Inf	69.80	3	Horizontal	162	2.27	-	28.30	2.40	-

BT-EDR(3Mbps)

2402MHz_TX

16/03/2021



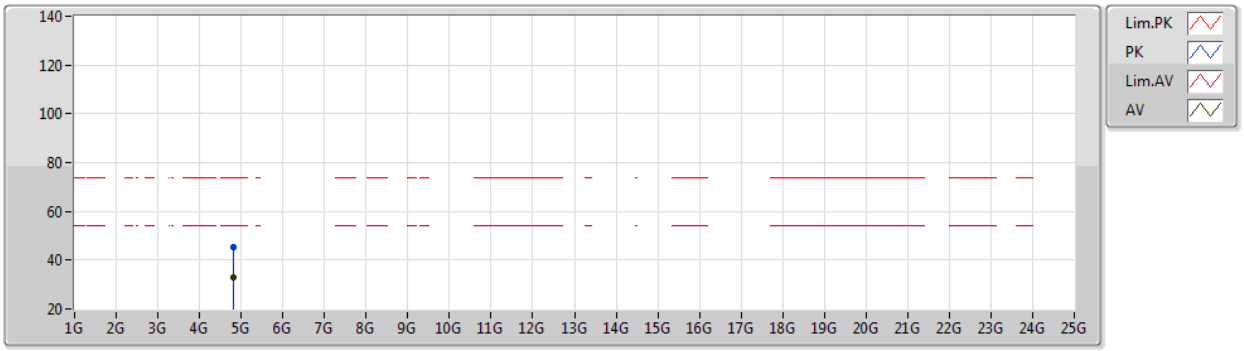
EUT Y_1TX
Setting 10
02-B-R-5

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	4.80362G	45.83	74.00	-28.17	40.09	3	Vertical	335	2.49	-	32.81	4.70	31.77
AV	4.8038G	34.34	54.00	-19.66	28.59	3	Vertical	335	2.49	-	32.82	4.70	31.77

BT-EDR(3Mbps)

2402MHz_TX

16/03/2021



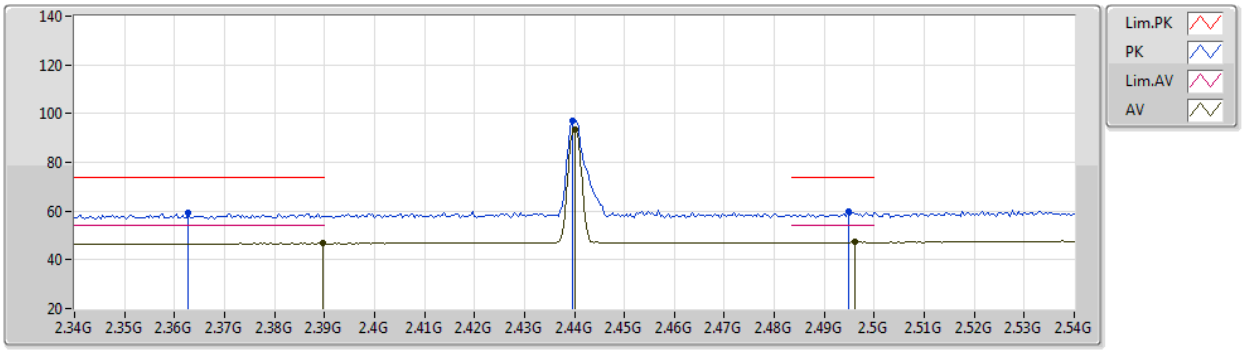
EUT Y_1TX
Setting 10
02-B-R-5

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	4.8035G	45.52	74.00	-28.48	39.78	3	Horizontal	229	2.29	-	32.81	4.70	31.77
AV	4.80426G	32.99	54.00	-21.01	27.24	3	Horizontal	229	2.29	-	32.82	4.70	31.77

BT-EDR(3Mbps)

2440MHz_TX

16/03/2021



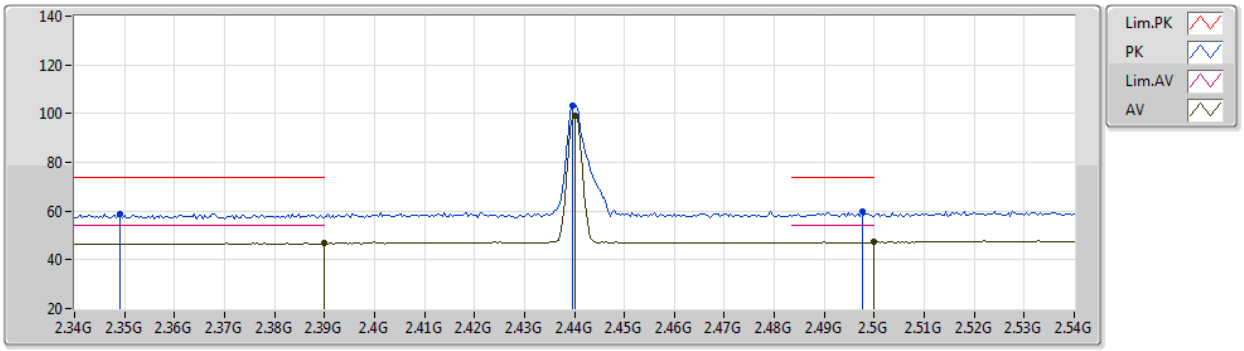
EUT Y_1TX
Setting 10
02-B-R-5

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	2.3628G	59.15	74.00	-14.85	28.43	3	Vertical	86	2.74	-	28.30	2.42	-
AV	2.3896G	46.81	54.00	-7.19	16.10	3	Vertical	86	2.74	-	28.30	2.41	-
PK	2.4396G	97.27	Inf	-Inf	66.47	3	Vertical	86	2.74	-	28.38	2.42	-
AV	2.44G	93.20	Inf	-Inf	62.40	3	Vertical	86	2.74	-	28.38	2.42	-
PK	2.4948G	59.61	74.00	-14.39	28.58	3	Vertical	86	2.74	-	28.58	2.45	-
AV	2.496G	47.26	54.00	-6.74	16.23	3	Vertical	86	2.74	-	28.58	2.45	-

BT-EDR(3Mbps)

2440MHz_TX

16/03/2021



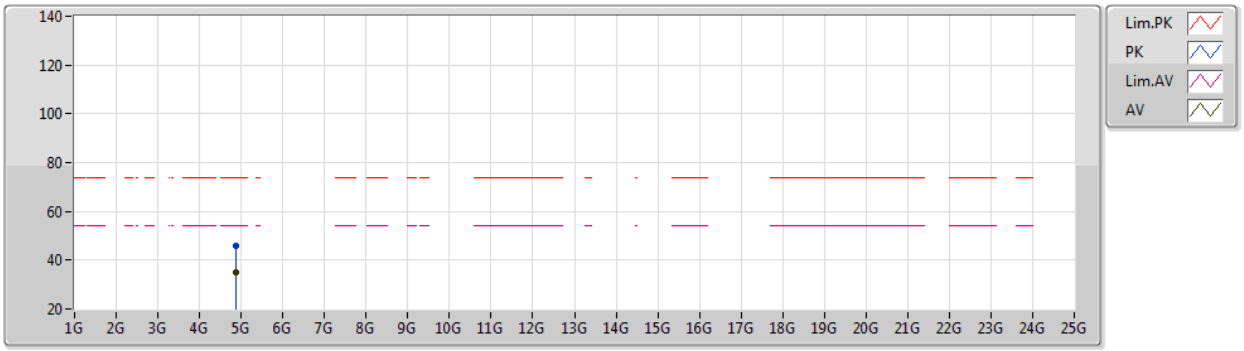
EUT Y_1TX
Setting 10
02-B-R-5

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	2.3492G	59.01	74.00	-14.99	28.28	3	Horizontal	195	1.79	-	28.30	2.43	-
AV	2.39G	46.78	54.00	-7.22	16.07	3	Horizontal	195	1.79	-	28.30	2.41	-
PK	2.4396G	103.39	Inf	-Inf	72.59	3	Horizontal	195	1.79	-	28.38	2.42	-
AV	2.44G	99.28	Inf	-Inf	68.48	3	Horizontal	195	1.79	-	28.38	2.42	-
PK	2.4976G	59.86	74.00	-14.14	28.82	3	Horizontal	195	1.79	-	28.59	2.45	-
AV	2.5G	47.23	54.00	-6.77	16.18	3	Horizontal	195	1.79	-	28.60	2.45	-

BT-EDR(3Mbps)

2440MHz_TX

16/03/2021



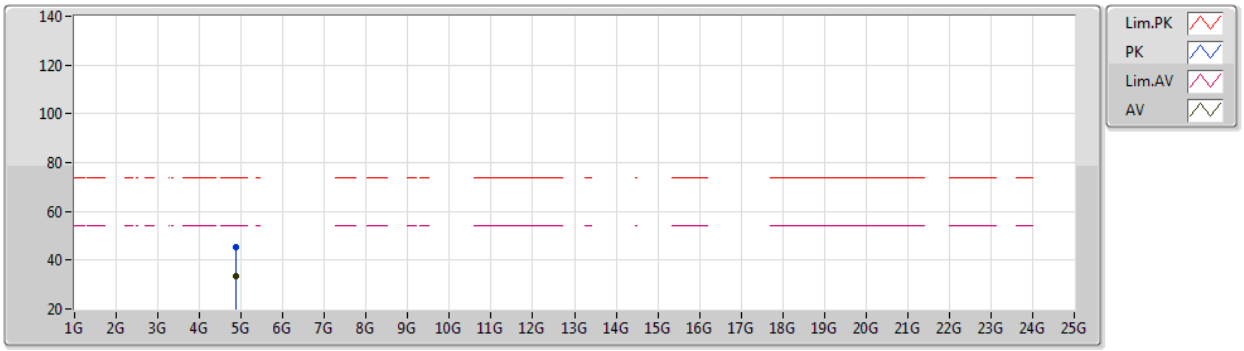
EUT Y_1TX
Setting 10
02-B-R-5

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	4.87988G	45.99	74.00	-28.01	39.97	3	Vertical	339	2.54	-	33.12	4.70	31.80
AV	4.88002G	34.98	54.00	-19.02	28.96	3	Vertical	339	2.54	-	33.12	4.70	31.80

BT-EDR(3Mbps)

2440MHz_TX

16/03/2021



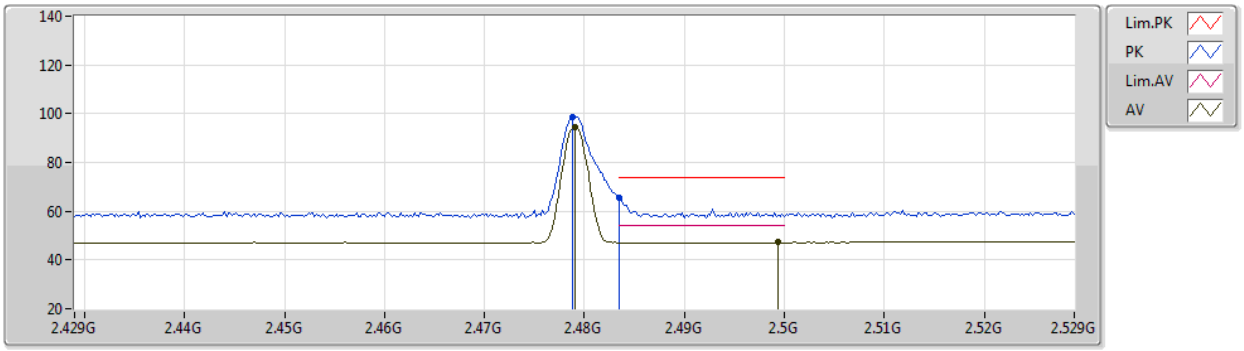
EUT Y_1TX
Setting 10
02-B-R-5

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	4.87996G	45.10	74.00	-28.90	39.08	3	Horizontal	212	1.80	-	33.12	4.70	31.80
AV	4.88006G	33.38	54.00	-20.62	27.36	3	Horizontal	212	1.80	-	33.12	4.70	31.80

BT-EDR(3Mbps)

2479MHz_TX

16/03/2021



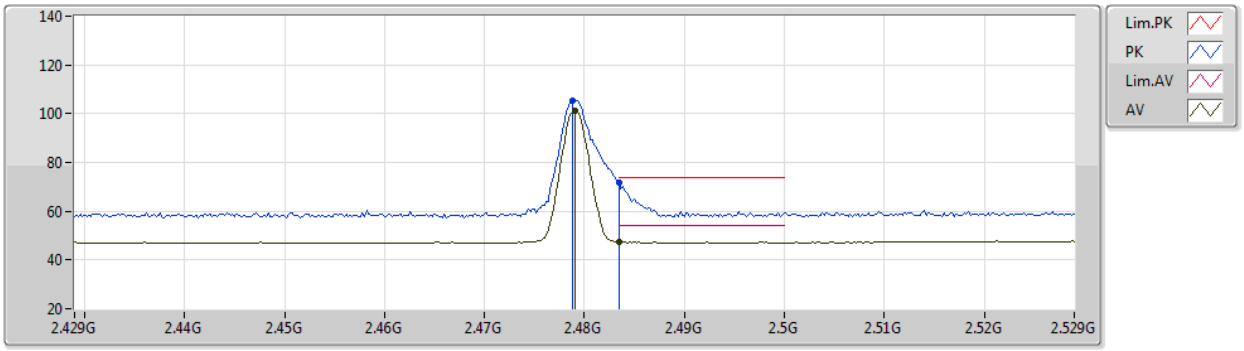
EUT Y_1TX
Setting 10
02-B-R-5

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	2.4788G	98.61	Inf	-Inf	67.65	3	Vertical	124	2.86	-	28.52	2.44	-
AV	2.479G	94.48	Inf	-Inf	63.52	3	Vertical	124	2.86	-	28.52	2.44	-
PK	2.4835G	65.37	74.00	-8.63	34.40	3	Vertical	124	2.86	-	28.53	2.44	-
AV	2.4994G	47.16	54.00	-6.84	16.11	3	Vertical	124	2.86	-	28.60	2.45	-

BT-EDR(3Mbps)

2479MHz_TX

16/03/2021



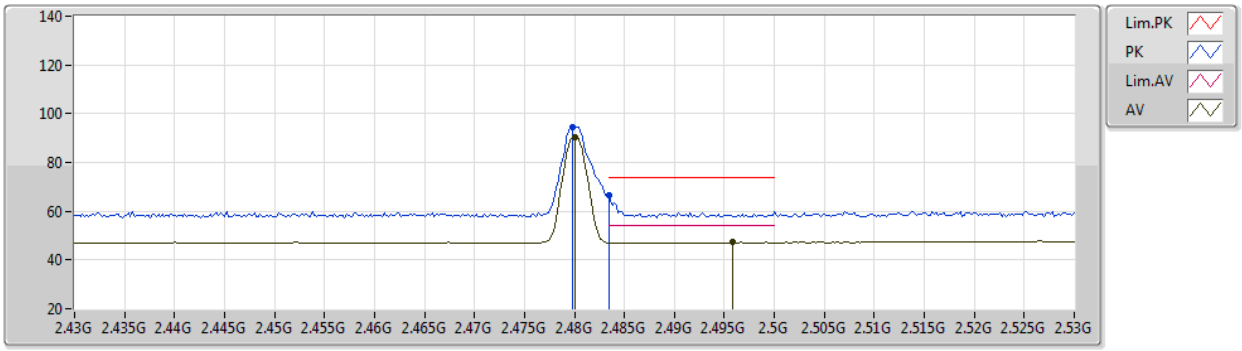
EUT Y_1TX
Setting 10
02-B-R-5

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	2.4788G	105.23	Inf	-Inf	74.27	3	Horizontal	349	2.19	-	28.52	2.44	-
AV	2.479G	101.12	Inf	-Inf	70.16	3	Horizontal	349	2.19	-	28.52	2.44	-
PK	2.4835G	71.68	74.00	-2.32	40.71	3	Horizontal	349	2.19	-	28.53	2.44	-
AV	2.4835G	47.36	54.00	-6.64	16.39	3	Horizontal	349	2.19	-	28.53	2.44	-

BT-EDR(3Mbps)

2480MHz_TX

16/03/2021



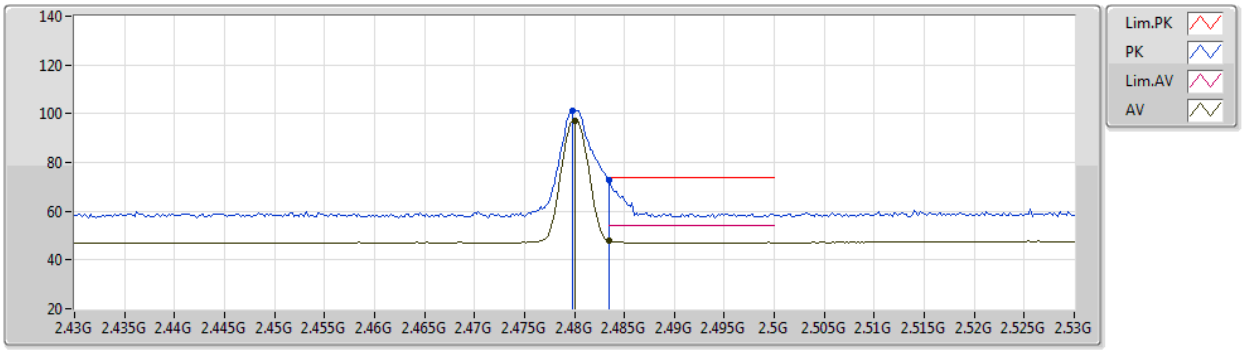
EUT Y_1TX
Setting 6
02-B-R-5

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	2.4798G	94.64	Inf	-Inf	63.68	3	Vertical	126	2.86	-	28.52	2.44	-
AV	2.48G	90.50	Inf	-Inf	59.54	3	Vertical	126	2.86	-	28.52	2.44	-
PK	2.4835G	66.75	74.00	-7.25	35.78	3	Vertical	126	2.86	-	28.53	2.44	-
AV	2.4958G	47.23	54.00	-6.77	16.20	3	Vertical	126	2.86	-	28.58	2.45	-

BT-EDR(3Mbps)

2480MHz_TX

16/03/2021



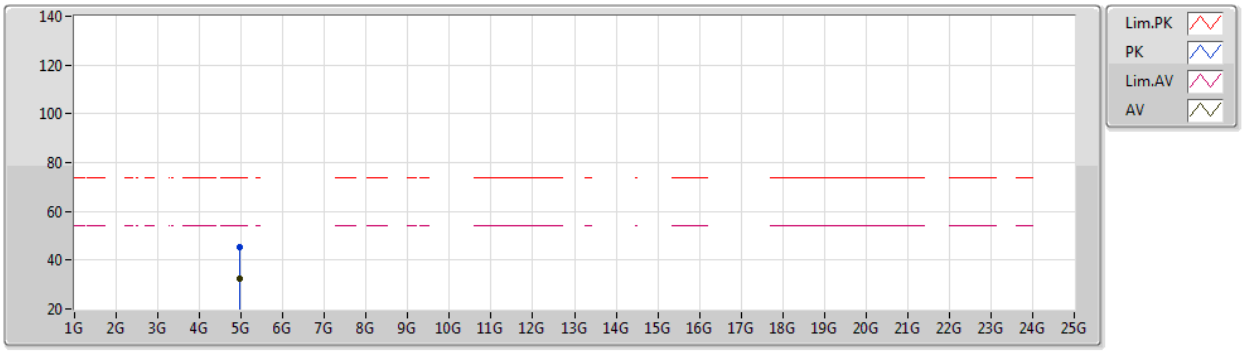
EUT Y_1TX
Setting 6
02-B-R-5

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	2.4798G	101.19	Inf	-Inf	70.23	3	Horizontal	348	2.20	-	28.52	2.44	-
AV	2.48G	97.01	Inf	-Inf	66.05	3	Horizontal	348	2.20	-	28.52	2.44	-
PK	2.4835G	72.57	74.00	-1.43	41.60	3	Horizontal	348	2.20	-	28.53	2.44	-
AV	2.4835G	47.82	54.00	-6.18	16.85	3	Horizontal	348	2.20	-	28.53	2.44	-

BT-EDR(3Mbps)

2480MHz_TX

16/03/2021



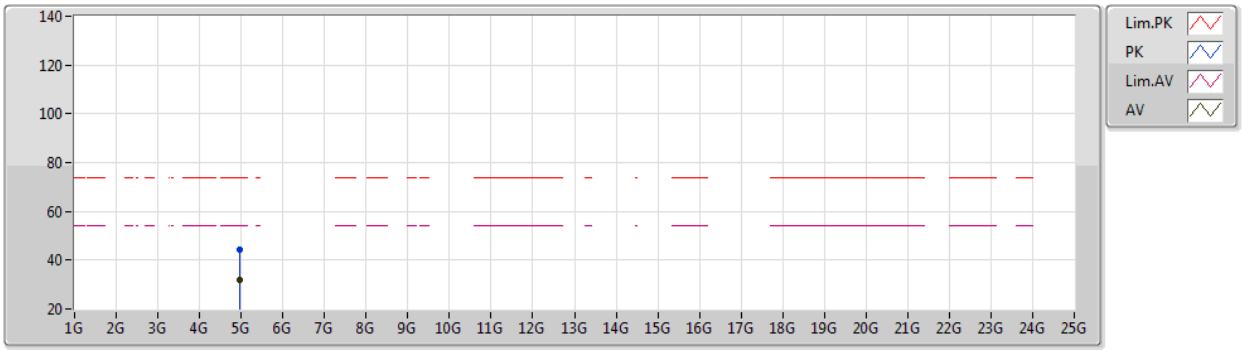
EUT Y_1TX
Setting 6
02-B-R-5

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	4.95946G	45.42	74.00	-28.58	39.33	3	Vertical	210	2.87	-	33.22	4.70	31.83
AV	4.95994G	32.30	54.00	-21.70	26.21	3	Vertical	210	2.87	-	33.22	4.70	31.83

BT-EDR(3Mbps)

2480MHz_TX

16/03/2021



EUT Y_1TX
Setting 6
02-B-R-5

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	4.96092G	44.39	74.00	-29.61	38.30	3	Horizontal	91	1.39	-	33.22	4.70	31.83
AV	4.95994G	31.90	54.00	-22.10	25.81	3	Horizontal	91	1.39	-	33.22	4.70	31.83

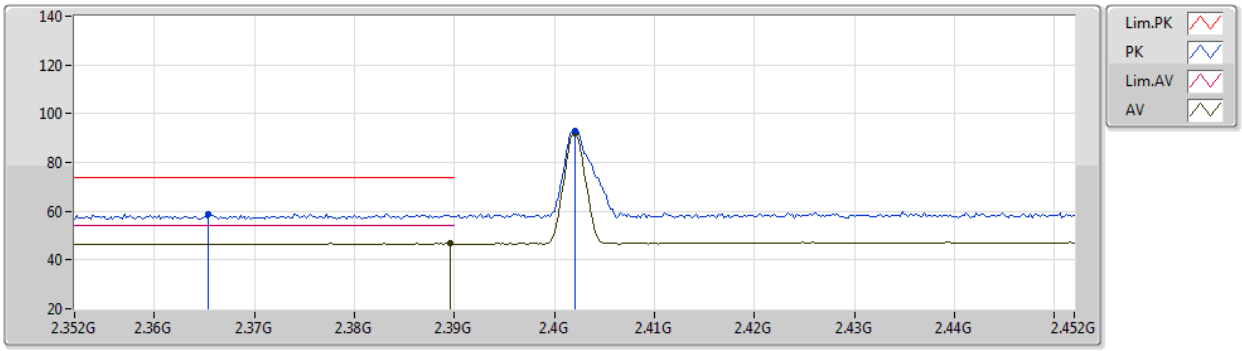
Summary

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	PK	2.4835G	72.88	74.00	-1.12	3	Horizontal	264	2.81	-

BT-BR(1Mbps)

23/03/2021

2402MHz_TX



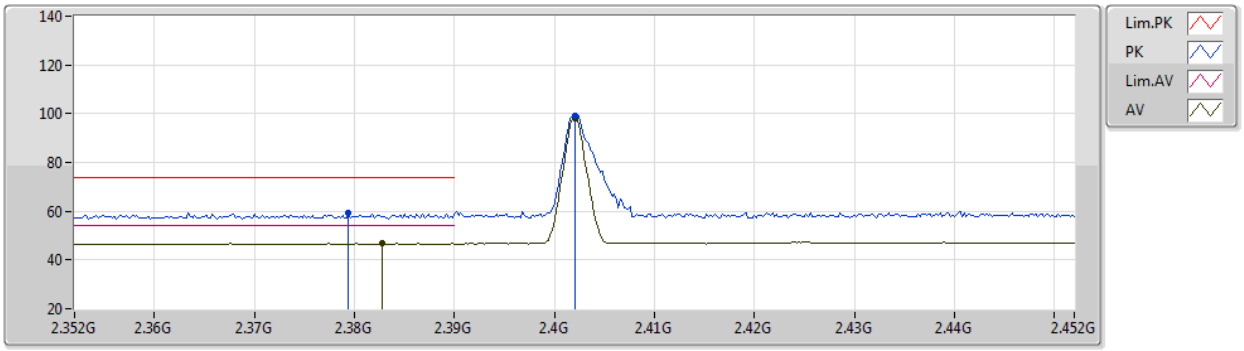
EUT Z_1TX
Setting 12
02-B-R-5

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	2.3654G	59.05	74.00	-14.95	28.33	3	Vertical	334	1.82	-	28.30	2.42	-
AV	2.3896G	46.71	54.00	-7.29	16.00	3	Vertical	334	1.82	-	28.30	2.41	-
PK	2.402G	92.74	Inf	-Inf	62.04	3	Vertical	334	1.82	-	28.30	2.40	-
AV	2.402G	91.86	Inf	-Inf	61.16	3	Vertical	334	1.82	-	28.30	2.40	-

BT-BR(1Mbps)

2402MHz_TX

23/03/2021



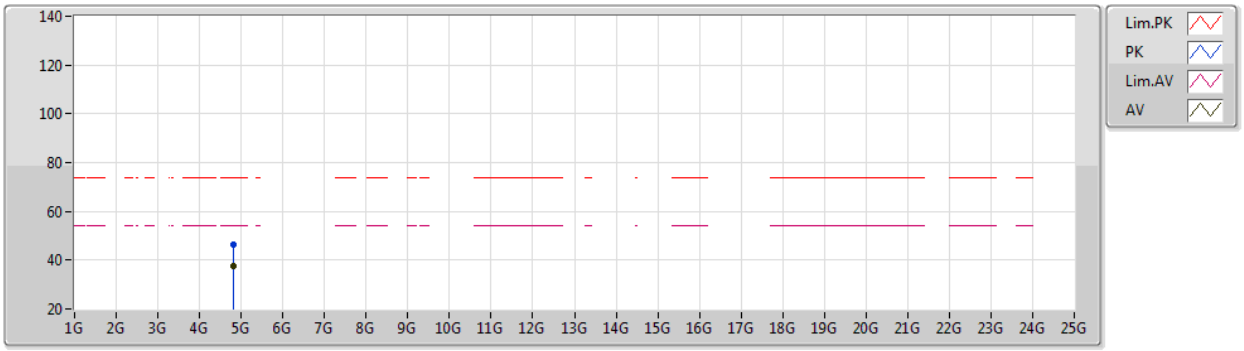
EUT Z_1TX
Setting 12
02-B-R-5

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	2.3794G	59.25	74.00	-14.75	28.54	3	Horizontal	270	2.19	-	28.30	2.41	-
AV	2.3828G	46.74	54.00	-7.26	16.03	3	Horizontal	270	2.19	-	28.30	2.41	-
PK	2.402G	99.27	Inf	-Inf	68.57	3	Horizontal	270	2.19	-	28.30	2.40	-
AV	2.402G	98.35	Inf	-Inf	67.65	3	Horizontal	270	2.19	-	28.30	2.40	-

BT-BR(1Mbps)

2402MHz_TX

23/03/2021



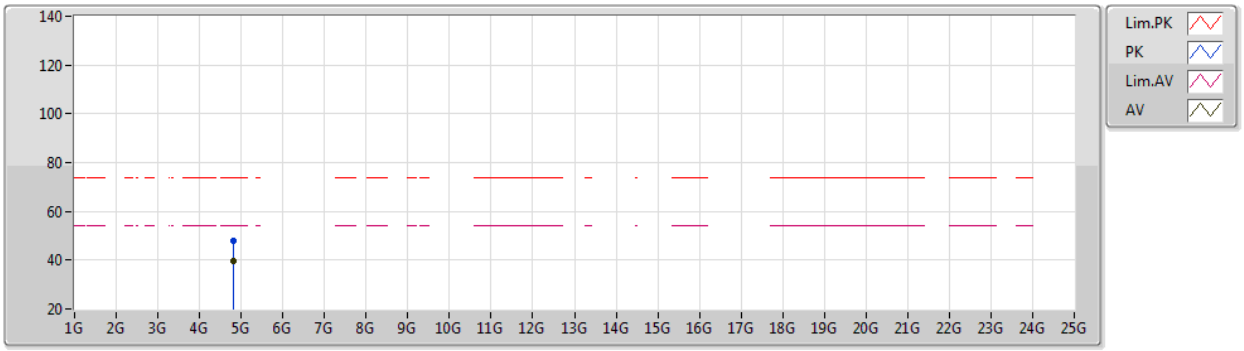
EUT Z_1TX
Setting 12
02-B-E-2

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	4.80408G	46.47	74.00	-27.53	40.72	3	Vertical	244	2.33	-	32.82	4.70	31.77
AV	4.804G	37.49	54.00	-16.51	31.74	3	Vertical	244	2.33	-	32.82	4.70	31.77

BT-BR(1Mbps)

2402MHz_TX

23/03/2021



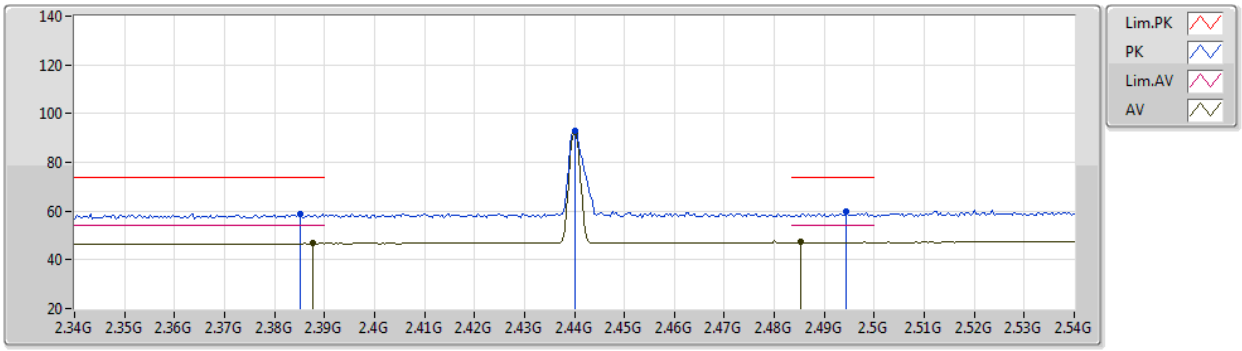
EUT Z_1TX
Setting 12
02-B-E-2

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	4.80373G	47.82	74.00	-26.18	42.08	3	Horizontal	284	2.75	-	32.81	4.70	31.77
AV	4.80392G	39.81	54.00	-14.19	34.06	3	Horizontal	284	2.75	-	32.82	4.70	31.77

BT-BR(1Mbps)

2440MHz_TX

23/03/2021



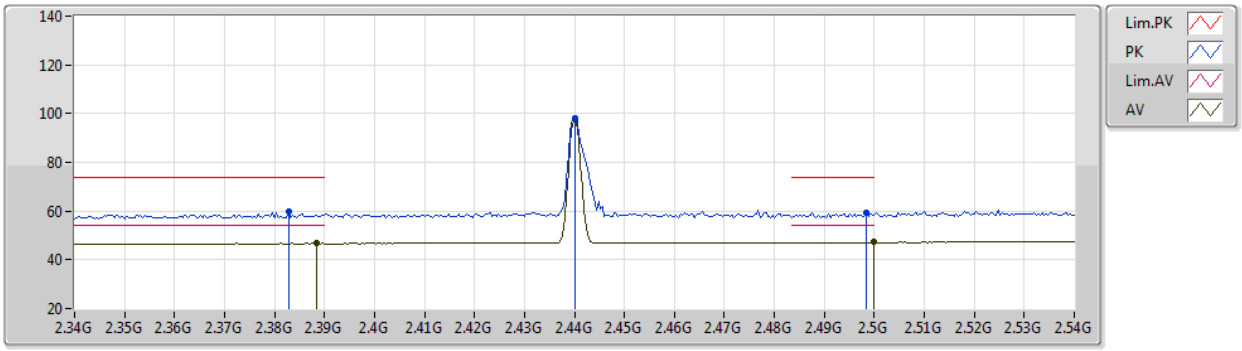
EUT Z_1TX
Setting 12
02-B-R-5

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	2.3852G	58.75	74.00	-15.25	28.04	3	Vertical	238	1.80	-	28.30	2.41	-
AV	2.3876G	46.66	54.00	-7.34	15.95	3	Vertical	238	1.80	-	28.30	2.41	-
PK	2.44G	93.08	Inf	-Inf	62.28	3	Vertical	238	1.80	-	28.38	2.42	-
AV	2.44G	92.17	Inf	-Inf	61.37	3	Vertical	238	1.80	-	28.38	2.42	-
PK	2.4944G	59.62	74.00	-14.38	28.59	3	Vertical	238	1.80	-	28.58	2.45	-
AV	2.4852G	47.19	54.00	-6.81	16.21	3	Vertical	238	1.80	-	28.54	2.44	-

BT-BR(1Mbps)

2440MHz_TX

23/03/2021



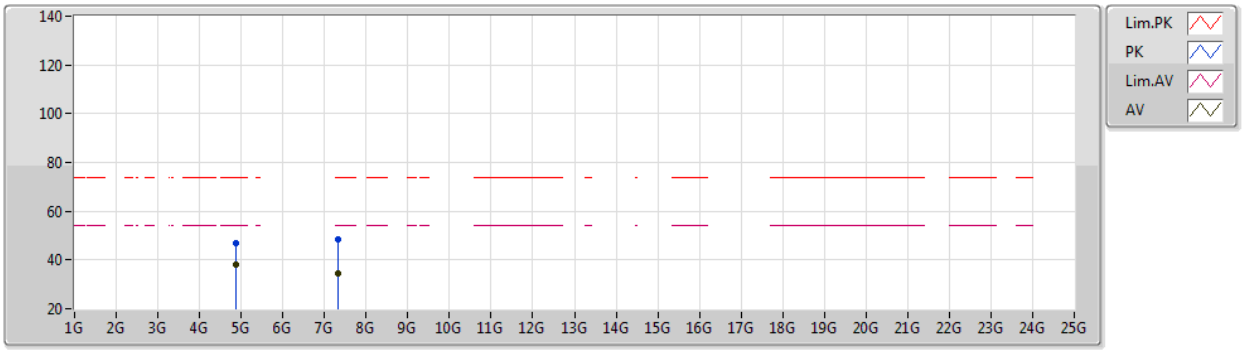
EUT Z_1TX
Setting 12
02-B-R-5

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	2.3828G	59.76	74.00	-14.24	29.05	3	Horizontal	234	2.15	-	28.30	2.41	-
AV	2.3884G	46.75	54.00	-7.25	16.04	3	Horizontal	234	2.15	-	28.30	2.41	-
PK	2.44G	98.25	Inf	-Inf	67.45	3	Horizontal	234	2.15	-	28.38	2.42	-
AV	2.44G	97.36	Inf	-Inf	66.56	3	Horizontal	234	2.15	-	28.38	2.42	-
PK	2.4984G	59.36	74.00	-14.64	28.32	3	Horizontal	234	2.15	-	28.59	2.45	-
AV	2.5G	47.17	54.00	-6.83	16.12	3	Horizontal	234	2.15	-	28.60	2.45	-

BT-BR(1Mbps)

2440MHz_TX

23/03/2021



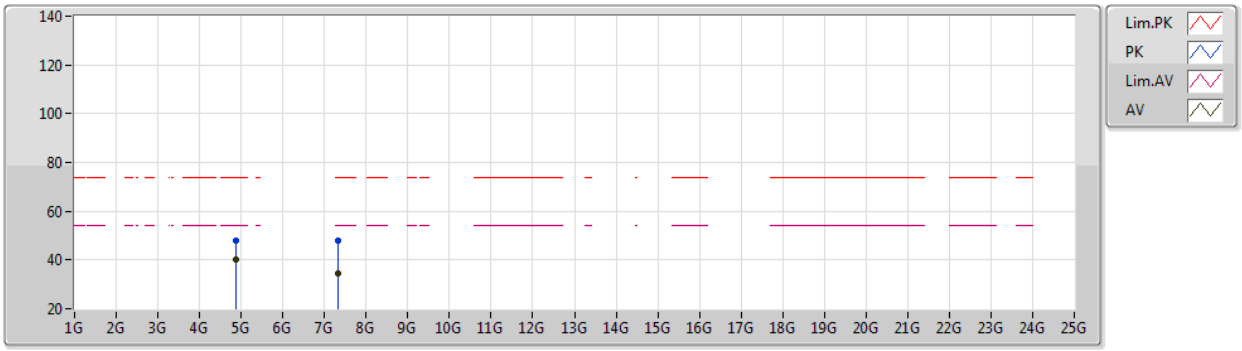
EUT Z_1TX
Setting 12
02-B-E-2

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	4.87991G	47.11	74.00	-26.89	41.09	3	Vertical	240	2.12	-	33.12	4.70	31.80
AV	4.87998G	37.89	54.00	-16.11	31.87	3	Vertical	240	2.12	-	33.12	4.70	31.80
PK	7.32138G	48.63	74.00	-25.37	38.86	3	Vertical	357	2.52	-	36.44	5.76	32.43
AV	7.32012G	34.65	54.00	-19.35	24.88	3	Vertical	357	2.52	-	36.44	5.76	32.43

BT-BR(1Mbps)

2440MHz_TX

23/03/2021



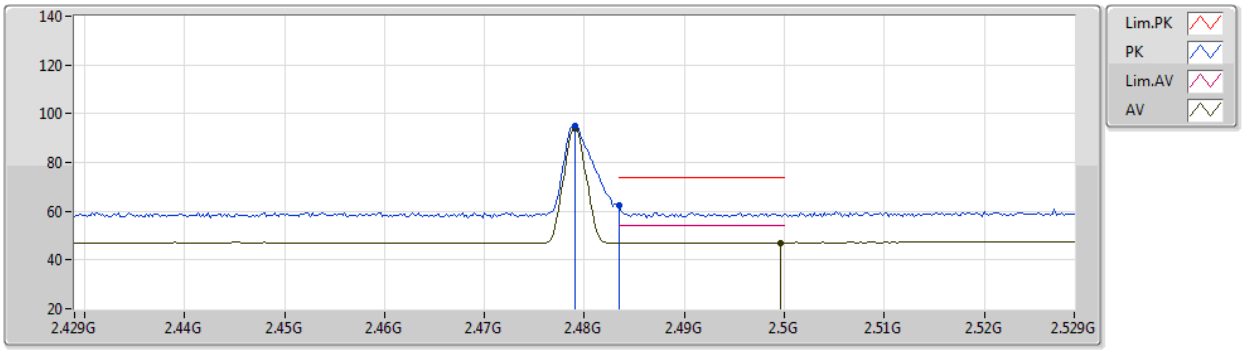
EUT Z_1TX
Setting 12
02-B-E-2

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	4.88018G	47.75	74.00	-26.25	41.73	3	Horizontal	284	2.55	-	33.12	4.70	31.80
AV	4.88G	40.21	54.00	-13.79	34.19	3	Horizontal	284	2.55	-	33.12	4.70	31.80
PK	7.31782G	47.78	74.00	-26.22	38.01	3	Horizontal	360	2.88	-	36.44	5.76	32.43
AV	7.32063G	34.37	54.00	-19.63	24.60	3	Horizontal	360	2.88	-	36.44	5.76	32.43

BT-BR(1Mbps)

2479MHz_TX

23/03/2021



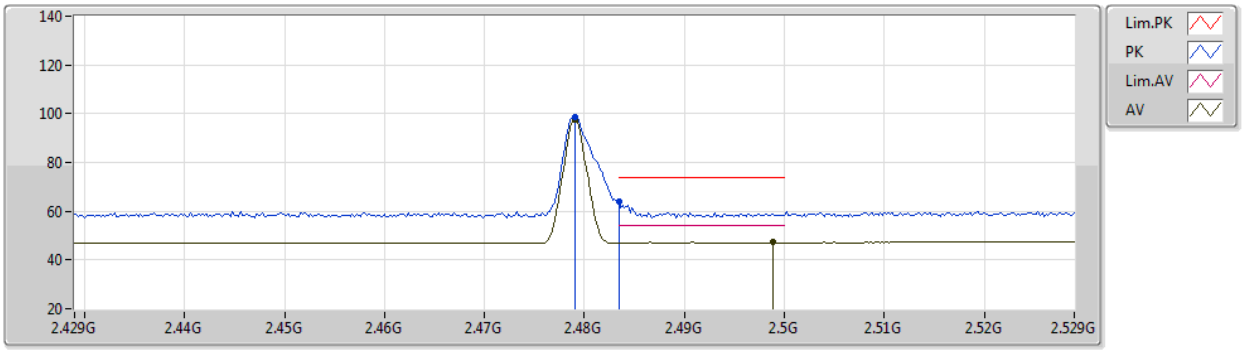
EUT Z_1TX
Setting 12
02-B-E-2

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	2.479G	94.83	Inf	-Inf	63.87	3	Vertical	238	2.74	-	28.52	2.44	-
AV	2.479G	93.94	Inf	-Inf	62.98	3	Vertical	238	2.74	-	28.52	2.44	-
PK	2.4835G	62.67	74.00	-11.33	31.70	3	Vertical	238	2.74	-	28.53	2.44	-
AV	2.4996G	47.13	54.00	-6.87	16.08	3	Vertical	238	2.74	-	28.60	2.45	-

BT-BR(1Mbps)

2479MHz_TX

23/03/2021



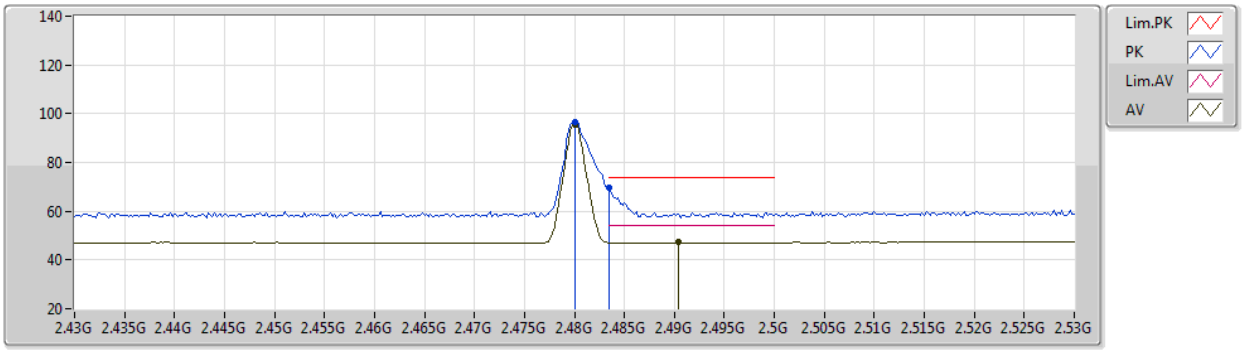
EUT Z_1TX
Setting 12
02-B-E-2

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	2.479G	98.53	Inf	-Inf	67.57	3	Horizontal	265	2.81	-	28.52	2.44	-
AV	2.479G	97.63	Inf	-Inf	66.67	3	Horizontal	265	2.81	-	28.52	2.44	-
PK	2.4835G	63.99	74.00	-10.01	33.02	3	Horizontal	265	2.81	-	28.53	2.44	-
AV	2.4988G	47.33	54.00	-6.67	16.28	3	Horizontal	265	2.81	-	28.60	2.45	-

BT-BR(1Mbps)

2480MHz_TX

23/03/2021



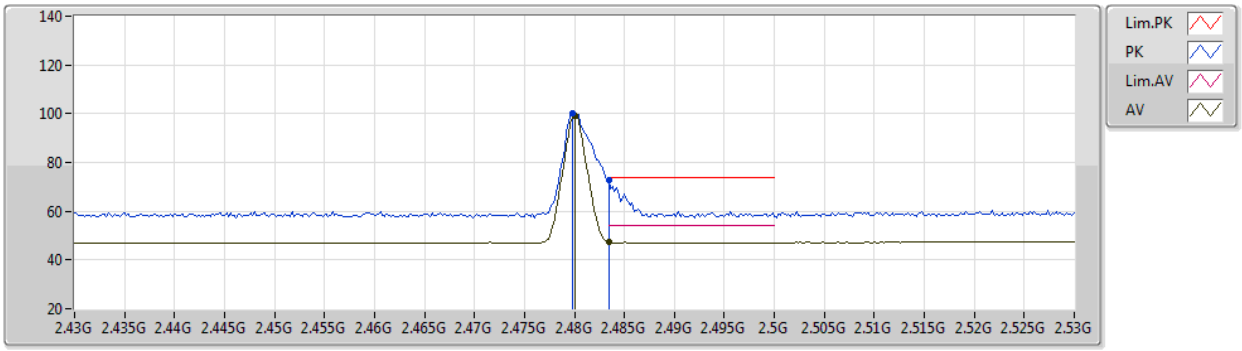
EUT Z_1TX
Setting 6
02-B-E-2

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	96.57	Inf	-Inf	65.61	3	Vertical	241	2.74	-	28.52	2.44	-
AV	2.48G	95.66	Inf	-Inf	64.70	3	Vertical	241	2.74	-	28.52	2.44	-
PK	2.4835G	69.80	74.00	-4.20	38.83	3	Vertical	241	2.74	-	28.53	2.44	-
AV	2.4904G	47.26	54.00	-6.74	16.25	3	Vertical	241	2.74	-	28.56	2.45	-

BT-BR(1Mbps)

2480MHz_TX

23/03/2021



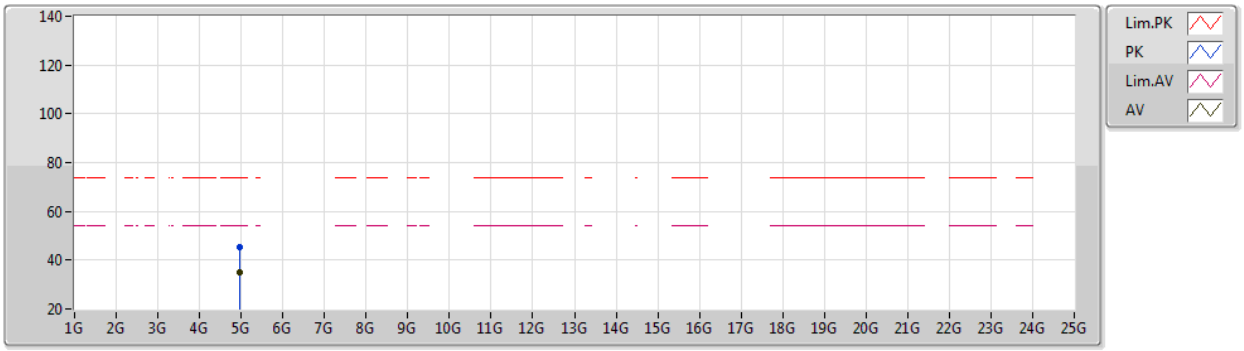
EUT Z_1TX
Setting 6
02-B-E-2

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	2.4798G	99.93	Inf	-Inf	68.97	3	Horizontal	264	2.81	-	28.52	2.44	-
AV	2.48G	99.08	Inf	-Inf	68.12	3	Horizontal	264	2.81	-	28.52	2.44	-
PK	2.4835G	72.88	74.00	-1.12	41.91	3	Horizontal	264	2.81	-	28.53	2.44	-
AV	2.4835G	47.23	54.00	-6.77	16.26	3	Horizontal	264	2.81	-	28.53	2.44	-

BT-BR(1Mbps)

2480MHz_TX

23/03/2021



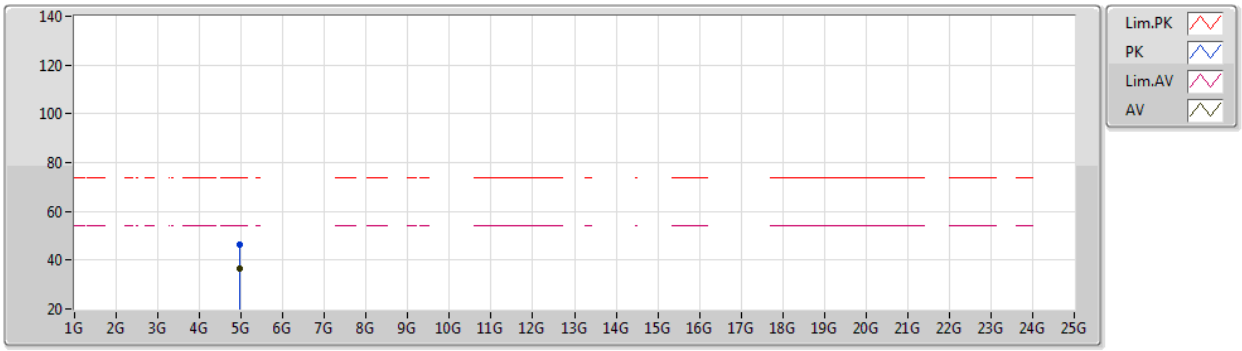
EUT Z_1TX
Setting 6
02-B-E-2

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	4.9602G	45.55	74.00	-28.45	39.46	3	Vertical	241	2.48	-	33.22	4.70	31.83
AV	4.96002G	34.78	54.00	-19.22	28.69	3	Vertical	241	2.48	-	33.22	4.70	31.83

BT-BR(1Mbps)

2480MHz_TX

23/03/2021



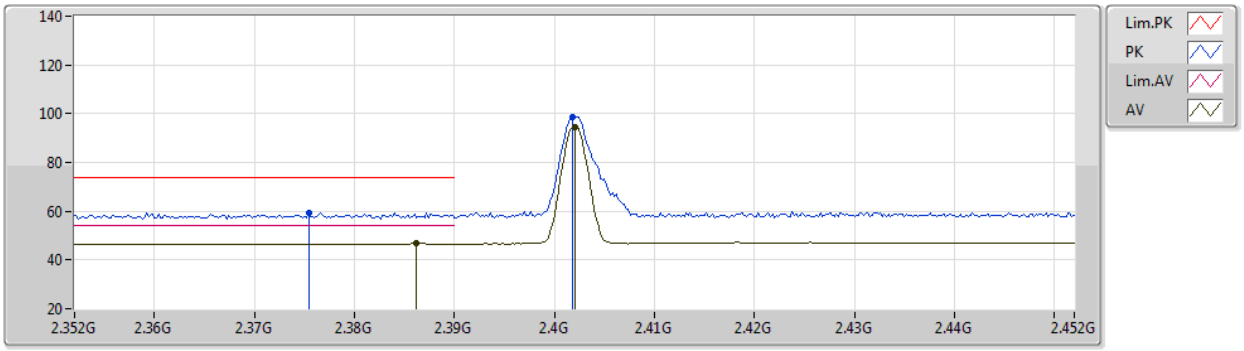
EUT Z_1TX
Setting 6
02-B-E-2

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	4.96007G	46.34	74.00	-27.66	40.25	3	Horizontal	282	2.37	-	33.22	4.70	31.83
AV	4.95995G	36.34	54.00	-17.66	30.25	3	Horizontal	282	2.37	-	33.22	4.70	31.83

BT-EDR(3Mbps)

2402MHz_TX

23/03/2021



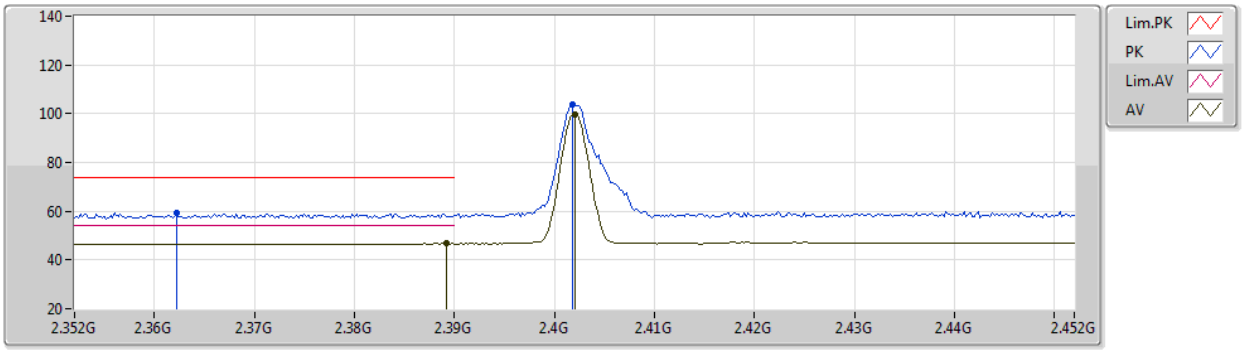
EUT Z_1TX
Setting 10
02-B-E-2

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	2.3754G	59.37	74.00	-14.63	28.66	3	Vertical	23	2.59	-	28.30	2.41	-
AV	2.3862G	46.75	54.00	-7.25	16.04	3	Vertical	23	2.59	-	28.30	2.41	-
PK	2.4018G	98.78	Inf	-Inf	68.08	3	Vertical	23	2.59	-	28.30	2.40	-
AV	2.402G	94.66	Inf	-Inf	63.96	3	Vertical	23	2.59	-	28.30	2.40	-

BT-EDR(3Mbps)

2402MHz_TX

23/03/2021



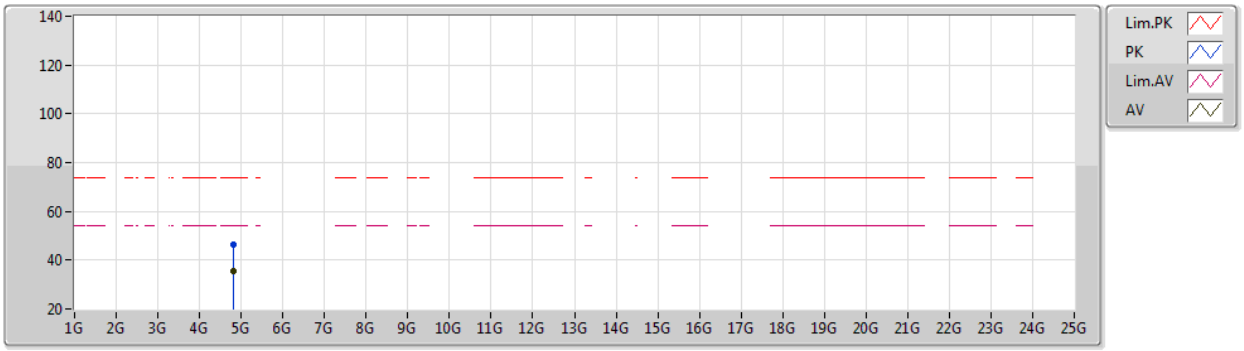
EUT Z_1TX
Setting 10
02-B-E-2

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	2.3622G	59.21	74.00	-14.79	28.49	3	Horizontal	270	2.19	-	28.30	2.42	-
AV	2.3892G	46.84	54.00	-7.16	16.13	3	Horizontal	270	2.19	-	28.30	2.41	-
PK	2.4018G	103.60	Inf	-Inf	72.90	3	Horizontal	270	2.19	-	28.30	2.40	-
AV	2.402G	99.56	Inf	-Inf	68.86	3	Horizontal	270	2.19	-	28.30	2.40	-

BT-EDR(3Mbps)

2402MHz_TX

23/03/2021



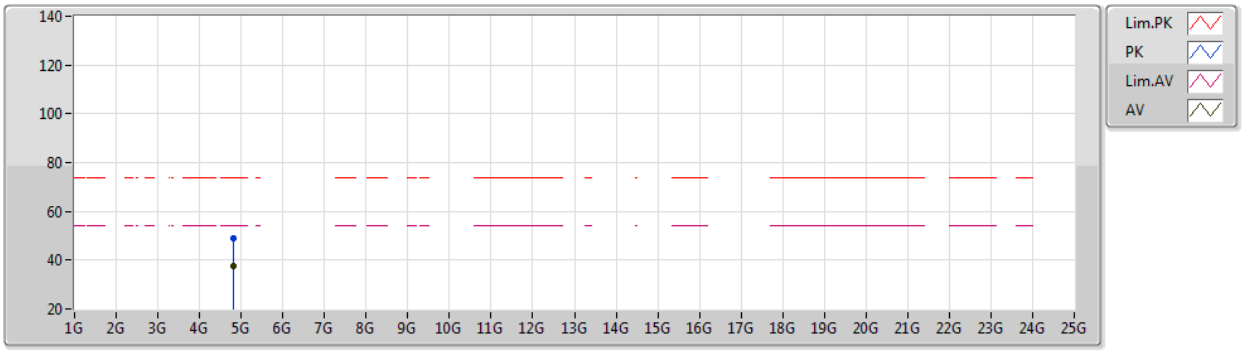
EUT Z_1TX
Setting 10
02-B-E-2

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	4.80418G	46.63	74.00	-27.37	40.88	3	Vertical	246	2.33	-	32.82	4.70	31.77
AV	4.80412G	35.30	54.00	-18.70	29.55	3	Vertical	246	2.33	-	32.82	4.70	31.77

BT-EDR(3Mbps)

2402MHz_TX

23/03/2021



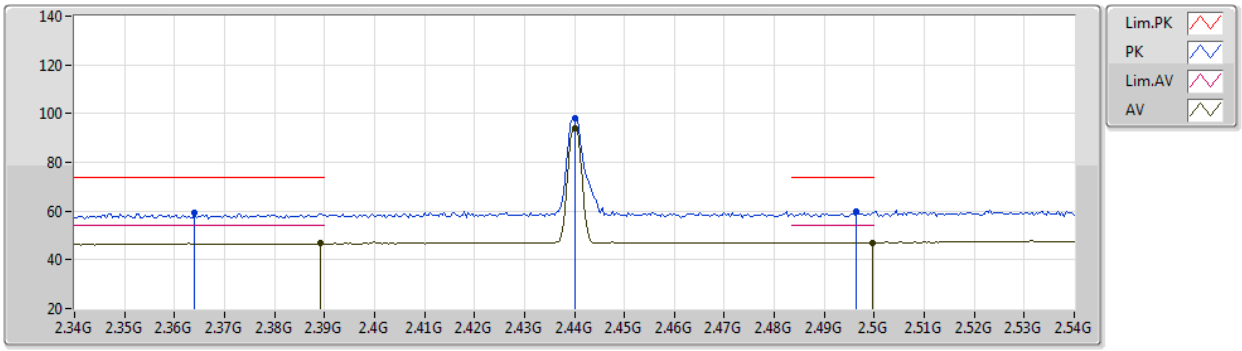
EUT Z_1TX
Setting 10
02-B-E-2

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	4.80398G	48.82	74.00	-25.18	43.07	3	Horizontal	286	2.48	-	32.82	4.70	31.77
AV	4.80402G	37.36	54.00	-16.64	31.61	3	Horizontal	286	2.48	-	32.82	4.70	31.77

BT-EDR(3Mbps)

2440MHz_TX

23/03/2021



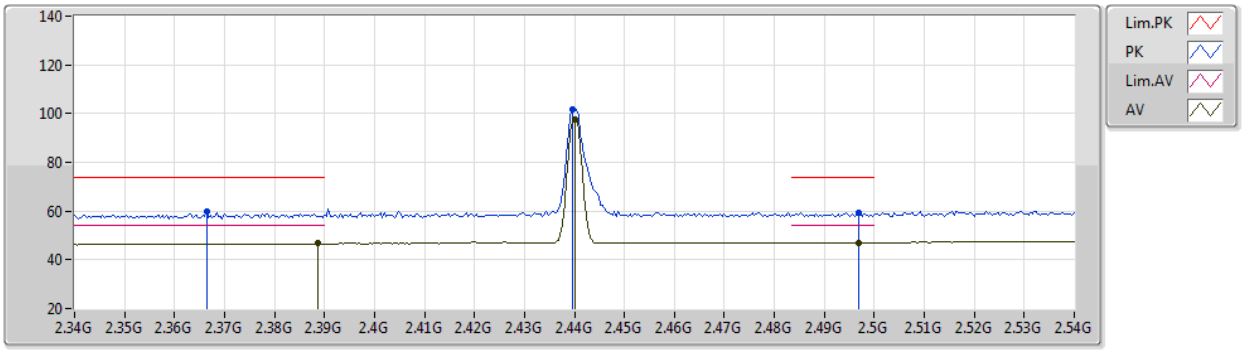
EUT Z_1TX
Setting 10
02-B-E-2

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	2.364G	59.09	74.00	-14.91	28.37	3	Vertical	246	2.83	-	28.30	2.42	-
AV	2.3892G	46.85	54.00	-7.15	16.14	3	Vertical	246	2.83	-	28.30	2.41	-
PK	2.44G	98.18	Inf	-Inf	67.38	3	Vertical	246	2.83	-	28.38	2.42	-
AV	2.44G	94.03	Inf	-Inf	63.23	3	Vertical	246	2.83	-	28.38	2.42	-
PK	2.4964G	59.81	74.00	-14.19	28.77	3	Vertical	246	2.83	-	28.59	2.45	-
AV	2.4996G	47.10	54.00	-6.90	16.05	3	Vertical	246	2.83	-	28.60	2.45	-

BT-EDR(3Mbps)

23/03/2021

2440MHz_TX



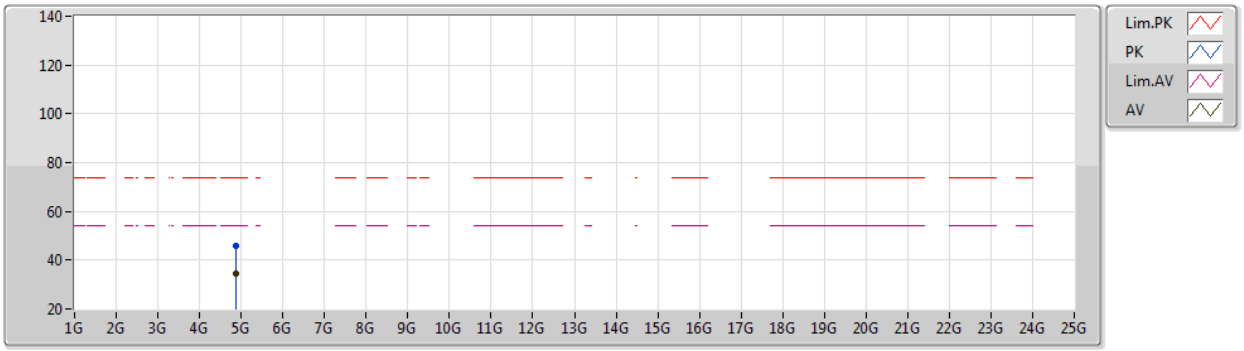
EUT Z_1TX
Setting 10
02-B-E-2

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	2.3664G	59.96	74.00	-14.04	29.24	3	Horizontal	234	2.15	-	28.30	2.42	-
AV	2.3888G	46.64	54.00	-7.36	15.93	3	Horizontal	234	2.15	-	28.30	2.41	-
PK	2.4396G	101.93	Inf	-Inf	71.13	3	Horizontal	234	2.15	-	28.38	2.42	-
AV	2.44G	97.77	Inf	-Inf	66.97	3	Horizontal	234	2.15	-	28.38	2.42	-
PK	2.4968G	59.47	74.00	-14.53	28.43	3	Horizontal	234	2.15	-	28.59	2.45	-
AV	2.4968G	47.15	54.00	-6.85	16.11	3	Horizontal	234	2.15	-	28.59	2.45	-

BT-EDR(3Mbps)

2440MHz_TX

23/03/2021



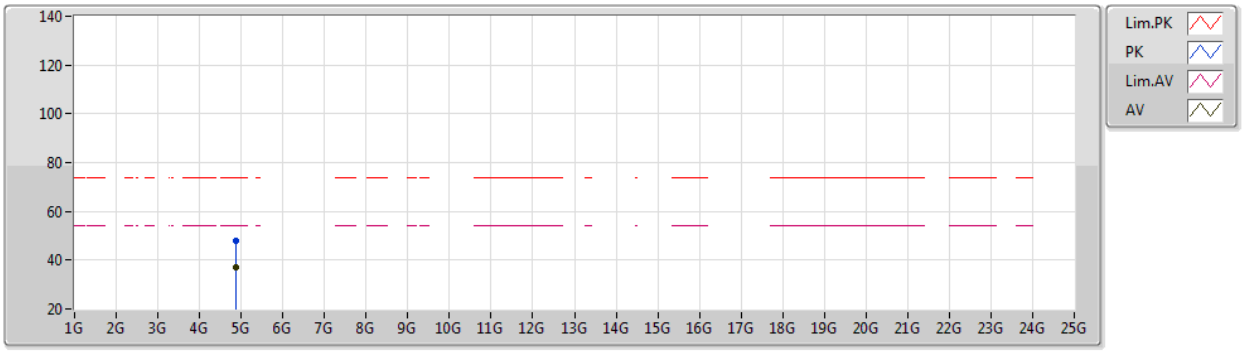
EUT Z_1TX
Setting 10
02-B-E-2

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	4.8802G	46.06	74.00	-27.94	40.04	3	Vertical	241	1.84	-	33.12	4.70	31.80
AV	4.87998G	34.49	54.00	-19.51	28.47	3	Vertical	241	1.84	-	33.12	4.70	31.80

BT-EDR(3Mbps)

2440MHz_TX

23/03/2021



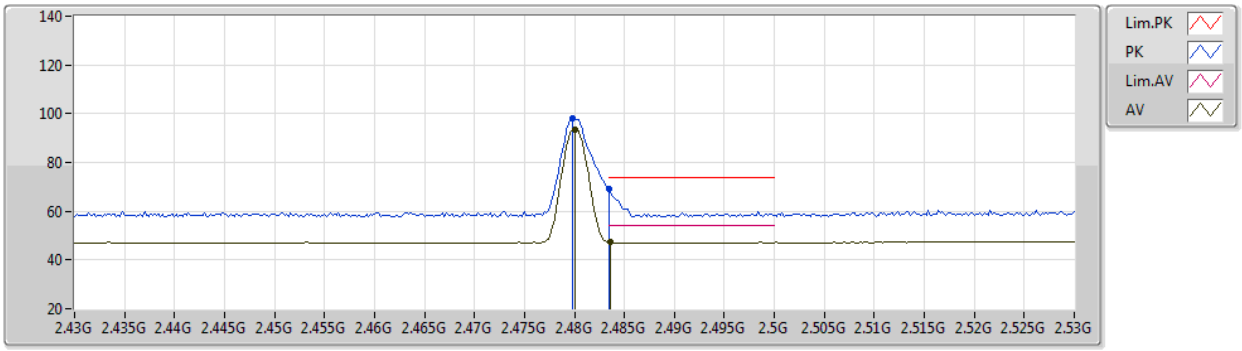
EUT Z_1TX
Setting 10
02-B-E-2

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	4.88004G	47.90	74.00	-26.10	41.88	3	Horizontal	288	2.56	-	33.12	4.70	31.80
AV	4.88G	37.26	54.00	-16.74	31.24	3	Horizontal	288	2.56	-	33.12	4.70	31.80

BT-EDR(3Mbps)

2480MHz_TX

23/03/2021



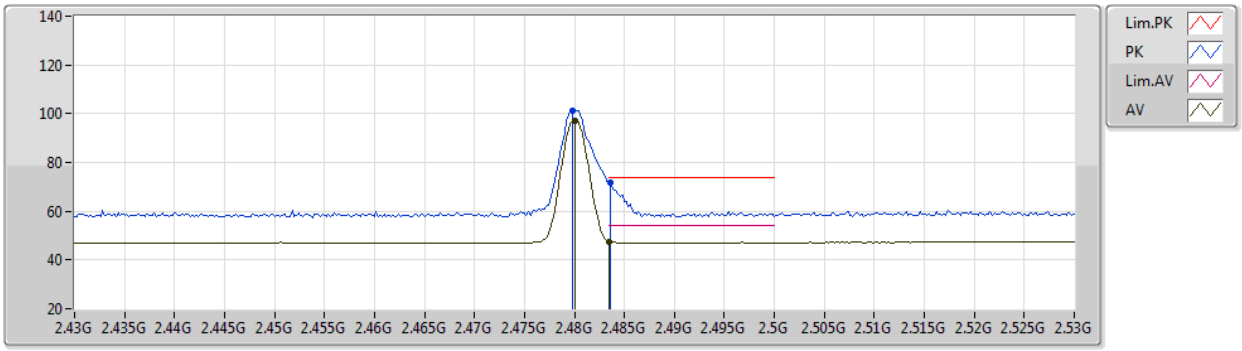
EUT Z_1TX
Setting 10
02-B-E-2

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	2.4798G	97.88	Inf	-Inf	66.92	3	Vertical	240	2.74	-	28.52	2.44	-
AV	2.48G	93.68	Inf	-Inf	62.72	3	Vertical	240	2.74	-	28.52	2.44	-
PK	2.4835G	68.92	74.00	-5.08	37.95	3	Vertical	240	2.74	-	28.53	2.44	-
AV	2.4836G	47.27	54.00	-6.73	16.30	3	Vertical	240	2.74	-	28.53	2.44	-

BT-EDR(3Mbps)

2480MHz_TX

23/03/2021



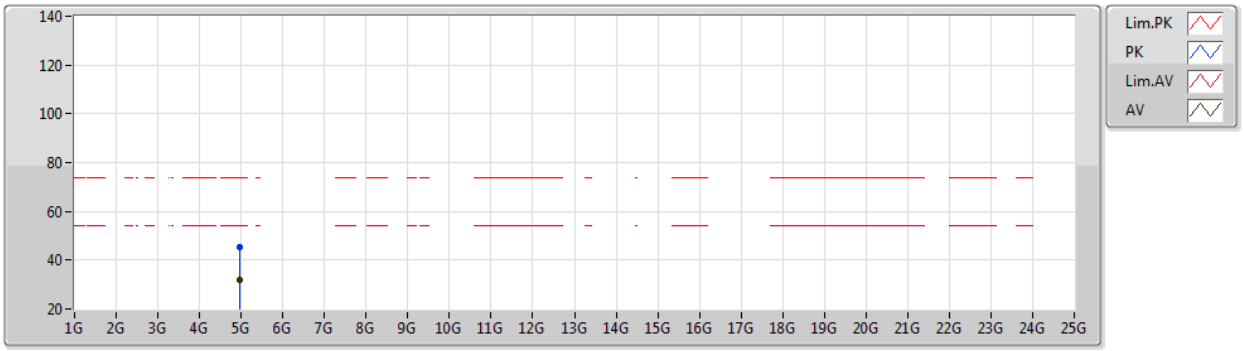
EUT Z_1TX
Setting 10
02-B-E-2

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	2.4798G	101.35	Inf	-Inf	70.39	3	Horizontal	266	2.81	-	28.52	2.44	-
AV	2.48G	97.18	Inf	-Inf	66.22	3	Horizontal	266	2.81	-	28.52	2.44	-
PK	2.4836G	71.57	74.00	-2.43	40.60	3	Horizontal	266	2.81	-	28.53	2.44	-
AV	2.4835G	47.66	54.00	-6.34	16.69	3	Horizontal	266	2.81	-	28.53	2.44	-

BT-EDR(3Mbps)

2480MHz_TX

23/03/2021



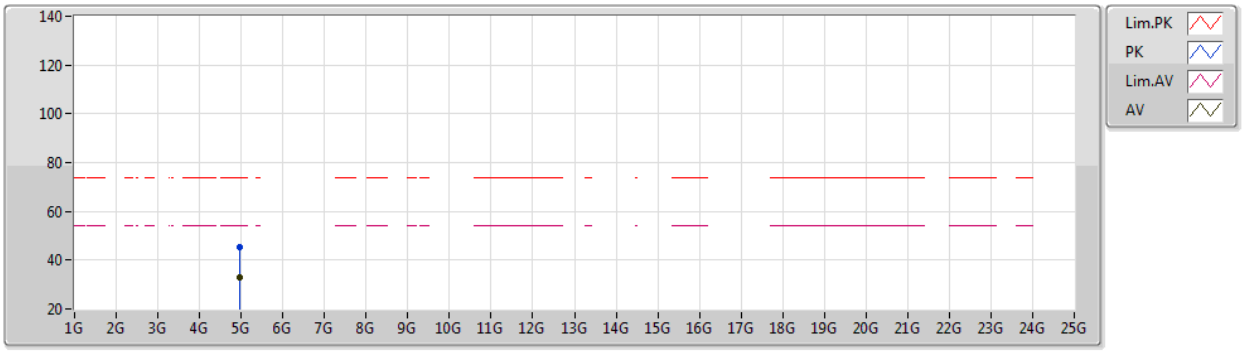
EUT Z_1TX
Setting 10
02-B-E-2

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	4.95921G	45.19	74.00	-28.81	39.10	3	Vertical	146	2.88	-	33.22	4.70	31.83
AV	4.96004G	32.13	54.00	-21.87	26.04	3	Vertical	146	2.88	-	33.22	4.70	31.83

BT-EDR(3Mbps)

2480MHz_TX

23/03/2021



EUT Z_1TX
Setting 10
02-B-E-2

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	4.95984G	45.53	74.00	-28.47	39.44	3	Horizontal	260	2.89	-	33.22	4.70	31.83
AV	4.95992G	33.00	54.00	-21.00	26.91	3	Horizontal	260	2.89	-	33.22	4.70	31.83