FCC Radio Test Report

FCC ID	:	**RX3-WBU058LGA**
Equipment	:	**IEEE 802.11 a/b/g/n/ac/ax 2x2+Bluetooth v5.2 Wireless Adapter**
Brand Name	:	**Foxconn**
Model Name	:	**WBU058-LGA**
Applicant	:	**Hon Hai Precision Industry Co., Ltd. No.151, Sec. 1, Nankan Rd., Lujhu Dist., Taoyuan City 33859, Taiwan**
Manufacturer	:	**Hon Hai Precision Industry Co., Ltd. No.151, Sec. 1, Nankan Rd., Lujhu Dist., Taoyuan City 33859, Taiwan**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Sep. 24, 2021, and testing was started from Oct. 04, 2021 and completed on Nov. 04, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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

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PHOTOGRAPHS OF EUT V01

History of this test report

Report No.	Version	Description	Issued Date
FR192341AD	01	Initial issue of report	Feb. 15, 2022

Summary of Test Result

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

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

Reviewed by: Sam Tsai

Report Producer: Ann Hou

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

Group	Ant.	Brand	Model Name	Antenna Type	Connector	Remark
A	1	Foxconn	79012F500-600-G	PIFA	I-PEX	WiFi
	2	Foxconn	79012F500-600-G	PIFA	I-PEX	
B	3	Foxconn	79012F300-600-G	PIFA	I-PEX	WiFi
	4	Foxconn	79012F300-600-G	PIFA	I-PEX	
C	5	Foxconn	79012F400-600-G	PIFA	I-PEX	WiFi
	6	Foxconn	79012F400-600-G	PIFA	I-PEX	
D	7	Foxconn	79012F200-600-G	PIFA	I-PEX	BT
	8	Foxconn	79012F200-600-G	PIFA	I-PEX	
E	9	Foxconn	79012F700-600-G	PIFA	I-PEX	BT
	10	Foxconn	79012F700-600-G	PIFA	I-PEX	
F	11	Foxconn	79012F600-600-G	PIFA	I-PEX	BT
	12	Foxconn	79012F600-600-G	PIFA	I-PEX	

Ant.	Port	Gain (dBi)					
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	BT
1	1	1.62	3.22	3.22	3.58	3.39	-
2	2	1.62	3.22	3.22	3.58	3.39	-
3	1	-0.73	1.83	1.83	2.56	2.45	-
4	2	-0.73	1.83	1.83	2.56	2.45	-
5	1	0.51	2.32	2.32	2.21	2.07	-
6	2	0.51	2.32	2.32	2.21	2.07	-
7	1	-	-	-	-	-	0.09
8	2	-	-	-	-	-	0.09
9	1	-	-	-	-	-	0.78
10	2	-	-	-	-	-	0.78
11	1	-	-	-	-	-	-0.02
12	2	-	-	-	-	-	-0.02

Note 1: The EUT has twelve antennas.

Note 2: EUT can match with above antennas for using. Higher gain (Group A and Group E) in each group of antenna was used to perform the worst configuration and result of that was recorded as the final test result.

For 2.4GHz function:

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

Port 1 and port 2 could transmit/receive simultaneously.

For BT function:

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

Support diversity function and pre-tested on each single chain, the worst case was Ant. 9(port 1) and it was recorded in this test report.

For 5GHz function:

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

Port 1 and port 2 could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From DC Power supply			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point
Type of EUT				
☒	Stand-alone			
☐	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model No.:	…		
☐	Plug-in radio (EUT intended for a variety of host systems)			
	Host System - Brand Name / Model No.:	…		
☐	Other:			

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-BR(1Mbps)	0.739	1.31	2.881m	1k
BT-EDR(2Mbps)	0.74	1.31	2.885m	1k
BT-EDR(3Mbps)	0.741	1.3	2.887m	1k

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

1.2 Testing Applied Standards

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

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

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

- KDB 558074 D01 v05r02
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab.：Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
(TAF: 3785**)**	**TEL:** 886-3-327-3456		**FAX:** 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
AC Conduction	CO04-HY	Edward Wang	22.3~24.4°C / 54~58%	15/Oct/2021
RF Conducted	TH06-HY	Alan Chien	20.1~26.9°C / 50~60%	04/Oct/2021~04/Nov/2021
☒ Wen 33rd.St.	**ADD:** No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
(TAF: 3785**)**	**TEL:** 886-3-318-0787		**FAX:** 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
Radiated	03CH09-HY	Ryan Hsiao	22.3~24.7°C / 53~60%	05/Oct/2021~07/Oct/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)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	QATool_Dbgv0.0.2.39

Mode	Power Setting
BT-BR(1Mbps)_Nss1_1TX(Port1)	-
2402MHz	3
2440MHz	3
2480MHz	3
BT-EDR(2Mbps)_Nss1_1TX(Port1)	-
2402MHz	3
2440MHz	3
2480MHz	3
BT-EDR(3Mbps)_Nss1_1TX(Port1)	-
2402MHz	3
2440MHz	3
2480MHz	3

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	DC Power Supply mode

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 ☒ Non-adaptive frequency hopping systems (Non-AFH) ☒ adaptive frequency hopping systems (AFH)
Non-AFH Mode configuration was found to be the worst case and measured during the test.	

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	CTX		
1	DC Power Supply mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
			
Worst Planes of EUT			V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	2.4GHz WLAN+Bluetooth
2	5GHz WLAN+Bluetooth
3	6GHz WLAN+Bluetooth
Refer to Sporton Test Report No.: FA192341 for Co-location RF Exposure Evaluation.	

2.3 Support Equipment

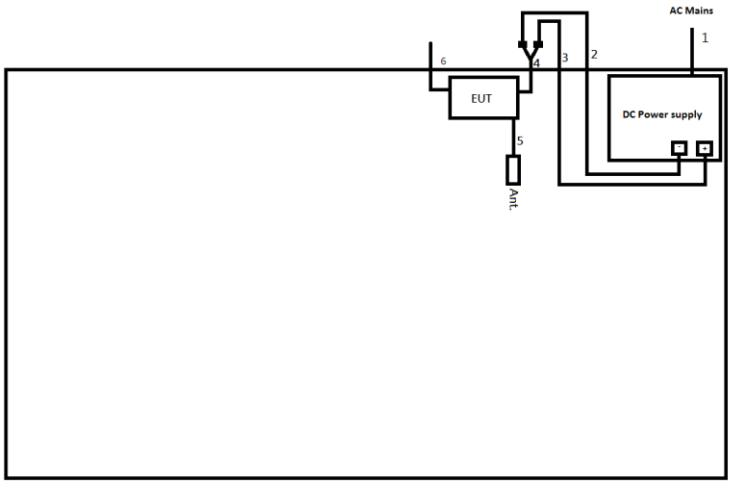
Support Equipment – AC Conduction					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	DC Power Supply	GW	GPS-3030DD	-	-
2	DC Power cable(Red)	MiSUMi	WTN1228-RED	-	-
3	DC Power cable(Black)	MiSUMi	WTN1228-BLACK	-	-

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	DC Power Supply	GW	GPS-3030DD	-	-
4	DC Power cable(Red)	MiSUMi	WTN1228-RED	-	-
5	DC Power cable(Black)	MiSUMi	WTN1228-BLACK	-	-

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	DC Power Supply	GW	GPS-3030DD	-	-
2	DC Power cable(Red)	MiSUMi	WTN1228-RED	-	-
3	DC Power cable(Black)	MiSUMi	WTN1228-BLACK	-	-

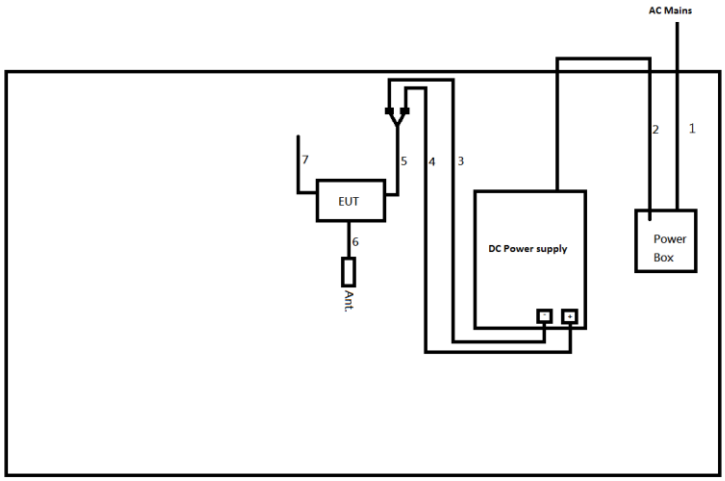
2.4 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)
1	AC Power cable	No	1.8
2	DC Power cable(-)	No	1.0
3	DC Power cable(+)	No	1.0
4	DC Power cable	No	0.28
5	Ant. cable	No	0.2
6	USB cable	No	0.25

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)
1	AC Power cable	No	1.8
2	AC Power cable	No	1.8
3	DC Power cable(-)	No	1.0
4	DC Power cable(+)	No	1.0
5	DC Power cable	No	0.28

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

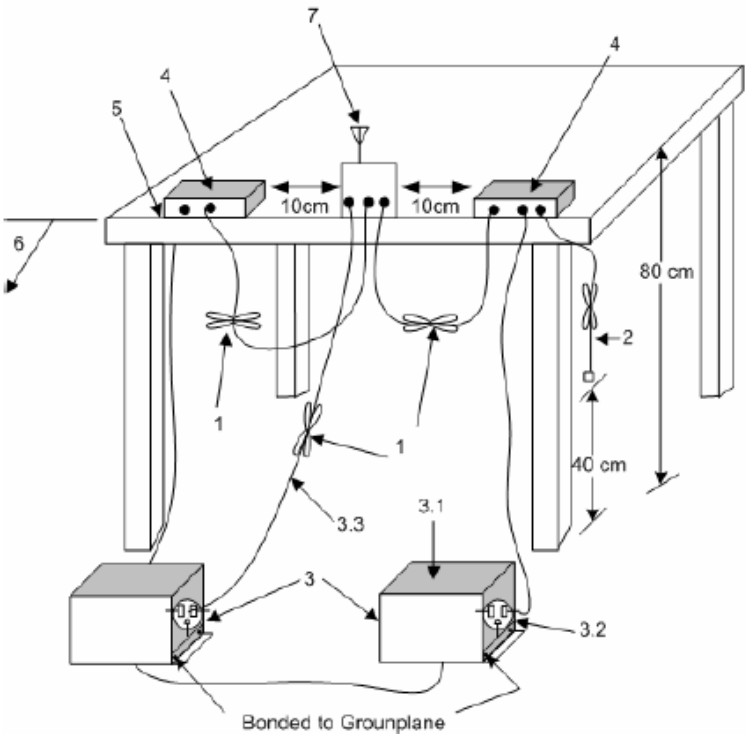
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) +LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup

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 50Ω 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.

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 20dB Bandwidth and Carrier Frequency Separation

3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
▪ 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).
N:Number of Hopping Frequencies; **ChS**: Hopping Channel Separation	

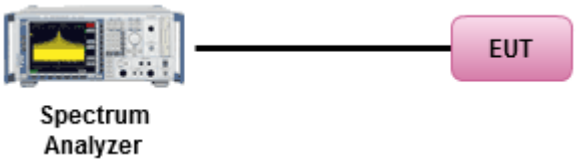
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.
▪ Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement.

3.2.4 Test Setup

20dB Bandwidth and Carrier Frequency Separation


3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
▪ 2400-2483.5 MHz Band:	
	▪ N ≥ 75; Power 30dBm; EIRP 36dBm
	▪ 75 >N ≥ 15; Power 21dBm; EIRP 27dBm
N:Number of Hopping Frequencies	

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup

Maximum Conducted Output Power (Peak Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Number of Hopping Frequencies and Hopping Bandedge

3.4.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit	
▪ 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).
N:Number of Hopping Frequencies; **ChS** : Hopping Channel Separation	

3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

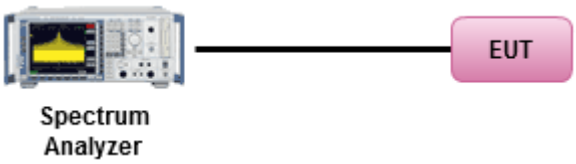
3.4.3 Measuring Instruments

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

3.4.4 Test Procedures

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

3.4.5 Test Setup

Number of Hopping Frequencies and Hopping Frequencies Bandedge


3.4.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

3.4.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

3.5 Time of Occupancy (Dwell Time)

3.5.1 Time of Occupancy (Dwell Time) Limit

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems
▪ 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
N:Number of Hopping Frequencies

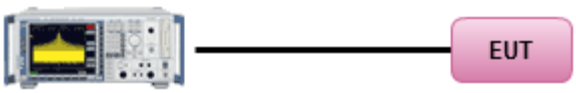
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.
▪ Bluetooth ACL packets can be 1, 3, or 5 time slots. Following as dwell time. Operate DH5 at maximum dwell time and maximum duty cycle.
▪ The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is 5/1600 seconds, or 3.125ms.DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel.

3.5.4 Test Setup

Time of Occupancy (Dwell Time)
 Spectrum Analyzer

3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

3.6 Emissions in Non-restricted Frequency Bands

3.6.1 Emissions in Non-restricted Frequency Bands Limit

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

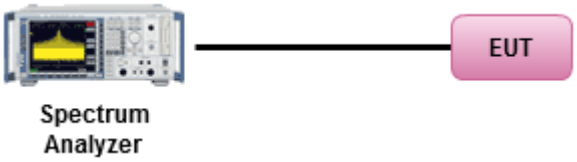
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup

Emissions in Non-restricted Frequency Bands


3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F

3.7 Emissions in Restricted Frequency Bands

3.7.1 Emissions in Restricted Frequency Bands Limit

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

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

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements 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.

3.7.2 Measuring Instruments

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

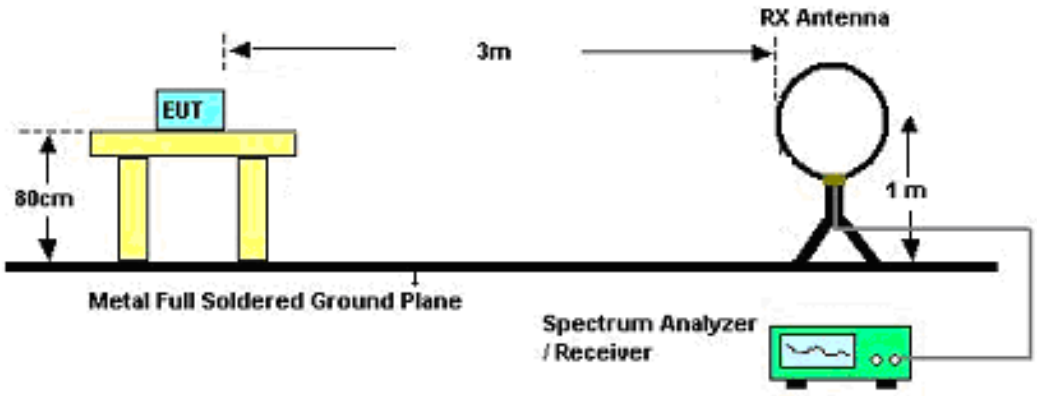
3.7.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [hopping duty factor].	
▪ Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.
	▪ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
	▪ Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.
▪	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	▪ Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

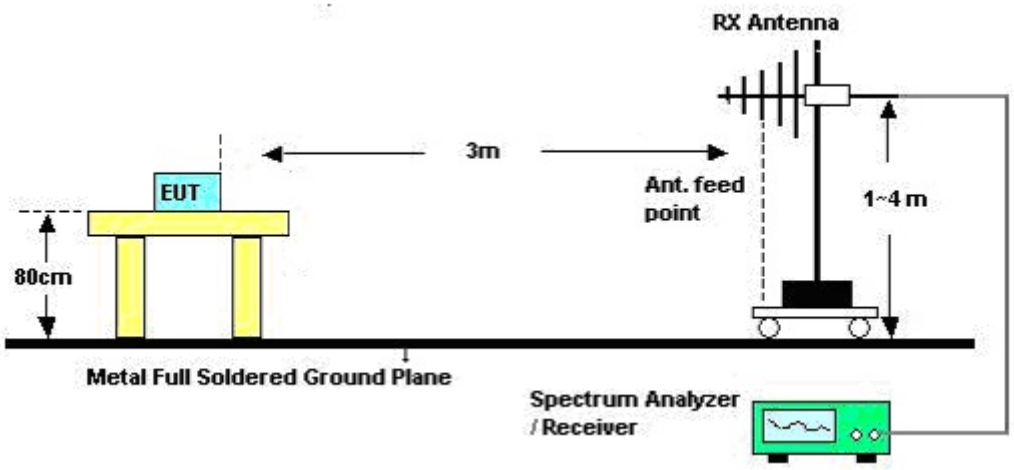
3.7.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

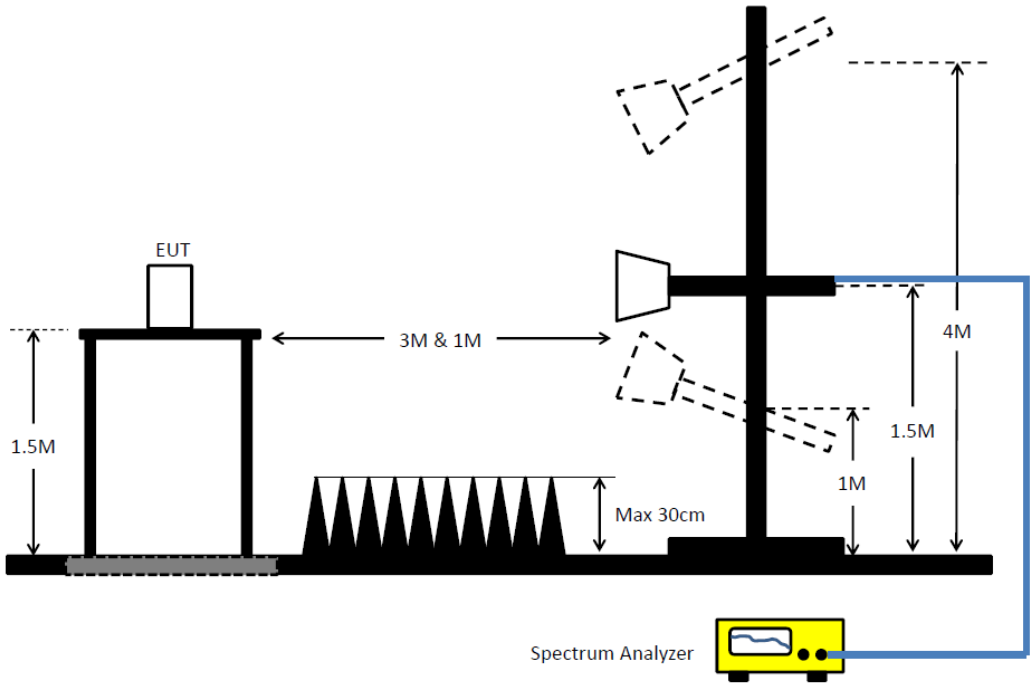
3.7.5 Test Setup

Emissions in Restricted Frequency Bands
9kHz ~30MHz


30MHz~1GHz



Above 1GHz



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

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

3.7.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	21/May/2021	20/May/2022
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	15/Sep/2021	14/Sep/2022
SENSE-EMI	Sporton	V5.10.7.13	N/A	N/A	N/A	N/A

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	26/Mar/2021	25/Mar/2022
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	25/Mar/2021	24/Mar/2022
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	25/Mar/2021	24/Mar/2022
Signal Generator	Keysight	N5171B	MY53051240	9kHz~6GHz	23/Nov/2020	22/Nov/2021
SENSE 15247_FS	Sporton	v5.10.7.13	N/A	N/A	N/A	N/A

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	26/Mar/2021	25/Mar/2022
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	18/Mar/2021	17/Mar/2022
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	13/Aug/2021	12/Aug/2022
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	12/Apr/2021	11/Apr/2022
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	23/Jul/2021	22/Jul/2022
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	04/Sep/2021	03/Sep/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	18/May/2021	17/May/2022
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~30MHz	30/Aug/2021	29/Aug/2022
RF Cable-low	Jye Bao	RG142	CB031+324530/4	30MHz~1GHz	09/Feb/2021	08/Feb/2022
RF CABLE 5m+3m+1m	HUBER+SUHNE R	SUCOFLEX104	CB009	1GHz~40GHz	13/Aug/2021	12/Aug/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	11/Mar/2021	10/Mar/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022
SENSE 15247_FS	Sporton	v5.10.7.13	N/A	N/A	N/A	N/A

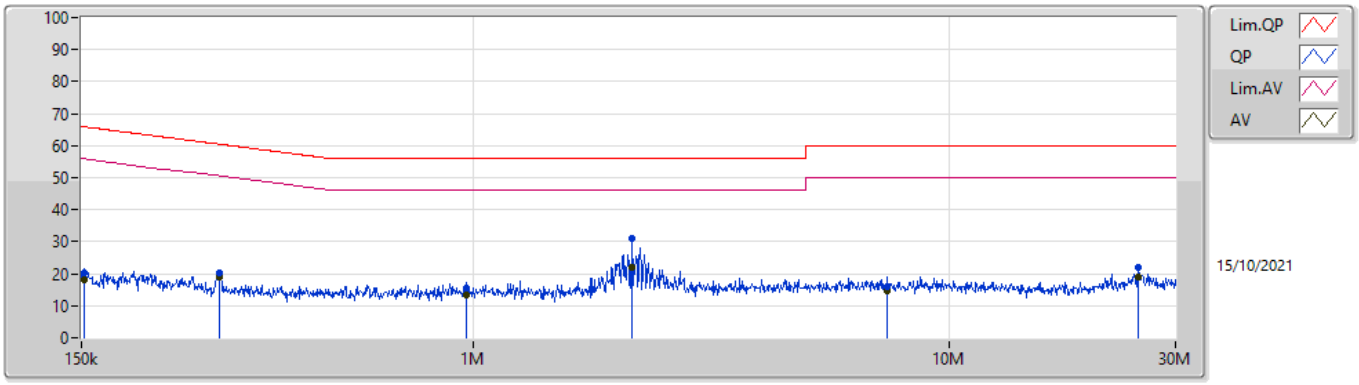
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	2.15M	22.12	46.00	-23.88	Line

Mode Configure

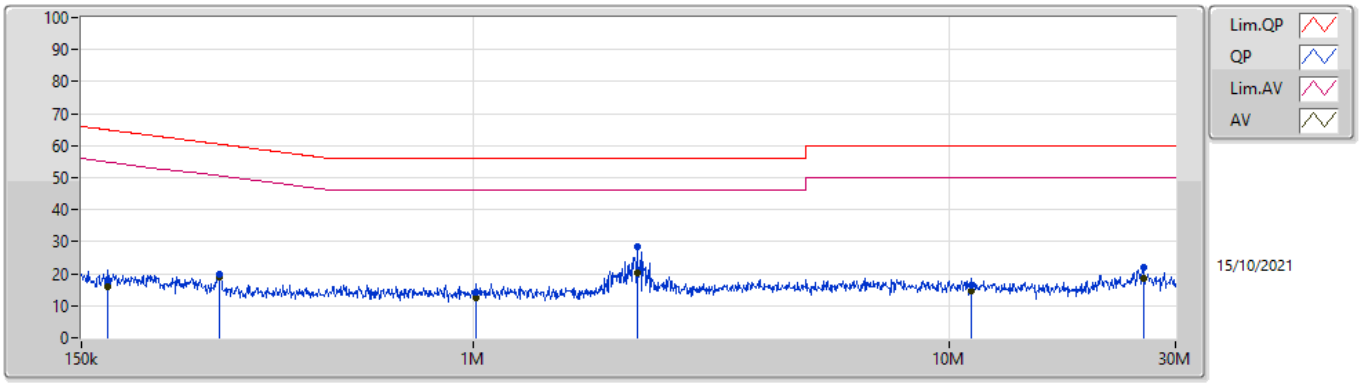
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	152.414k	20.07	65.87	-45.80	Line	-
Mode 1	Pass	AV	152.414k	17.96	55.87	-37.91	Line	-
Mode 1	Pass	QP	292.16k	20.16	60.46	-40.30	Line	-
Mode 1	Pass	AV	292.16k	18.85	50.46	-31.61	Line	-
Mode 1	Pass	QP	967.688k	15.57	56.00	-40.43	Line	-
Mode 1	Pass	AV	967.688k	13.23	46.00	-32.77	Line	-
Mode 1	Pass	QP	2.15M	31.19	56.00	-24.81	Line	-
Mode 1	Pass	AV	2.15M	22.12	46.00	-23.88	Line	-
Mode 1	Pass	QP	7.442M	16.04	60.00	-43.96	Line	-
Mode 1	Pass	AV	7.442M	14.80	50.00	-35.20	Line	-
Mode 1	Pass	QP	25.044M	21.94	60.00	-38.06	Line	-
Mode 1	Pass	AV	25.044M	18.93	50.00	-31.07	Line	-
Mode 1	Pass	QP	170.439k	18.00	64.93	-46.93	Neutral	-
Mode 1	Pass	AV	170.439k	15.75	54.93	-39.18	Neutral	-
Mode 1	Pass	QP	292.16k	19.93	60.46	-40.53	Neutral	-
Mode 1	Pass	AV	292.16k	18.76	50.46	-31.70	Neutral	-
Mode 1	Pass	QP	1.011M	14.18	56.00	-41.82	Neutral	-
Mode 1	Pass	AV	1.011M	12.57	46.00	-33.43	Neutral	-
Mode 1	Pass	QP	2.211M	28.49	56.00	-27.51	Neutral	-
Mode 1	Pass	AV	2.211M	20.18	46.00	-25.82	Neutral	-
Mode 1	Pass	QP	11.137M	16.24	60.00	-43.76	Neutral	-
Mode 1	Pass	AV	11.137M	14.72	50.00	-35.28	Neutral	-
Mode 1	Pass	QP	25.652M	22.15	60.00	-37.85	Neutral	-
Mode 1	Pass	AV	25.652M	18.67	50.00	-31.33	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	152.414k	20.07	65.87	-45.80	19.62	Line	-	0.45	9.69	0.04	9.89
AV	152.414k	17.96	55.87	-37.91	19.62	Line	-	-1.66	9.69	0.04	9.89
QP	292.16k	20.16	60.46	-40.30	19.61	Line	-	0.55	9.67	0.05	9.89
AV	292.16k	18.85	50.46	-31.61	19.61	Line	-	-0.76	9.67	0.05	9.89
QP	967.688k	15.57	56.00	-40.43	19.64	Line	-	-4.07	9.67	0.08	9.89
AV	967.688k	13.23	46.00	-32.77	19.64	Line	-	-6.41	9.67	0.08	9.89
QP	2.15M	31.19	56.00	-24.81	19.66	Line	-	11.53	9.68	0.10	9.88
AV	2.15M	22.12	46.00	-23.88	19.66	Line	-	2.46	9.68	0.10	9.88
QP	7.442M	16.04	60.00	-43.96	19.78	Line	-	-3.74	9.71	0.18	9.89
AV	7.442M	14.80	50.00	-35.20	19.78	Line	-	-4.98	9.71	0.18	9.89
QP	25.044M	21.94	60.00	-38.06	19.80	Line	-	2.14	9.59	0.32	9.89
AV	25.044M	18.93	50.00	-31.07	19.80	Line	-	-0.87	9.59	0.32	9.89

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	170.439k	18.00	64.93	-46.93	19.62	Neutral	-	-1.62	9.69	0.04	9.89
AV	170.439k	15.75	54.93	-39.18	19.62	Neutral	-	-3.87	9.69	0.04	9.89
QP	292.16k	19.93	60.46	-40.53	19.61	Neutral	-	0.32	9.67	0.05	9.89
AV	292.16k	18.76	50.46	-31.70	19.61	Neutral	-	-0.85	9.67	0.05	9.89
QP	1.011M	14.18	56.00	-41.82	19.64	Neutral	-	-5.46	9.67	0.08	9.89
AV	1.011M	12.57	46.00	-33.43	19.64	Neutral	-	-7.07	9.67	0.08	9.89
QP	2.211M	28.49	56.00	-27.51	19.67	Neutral	-	8.82	9.68	0.11	9.88
AV	2.211M	20.18	46.00	-25.82	19.67	Neutral	-	0.51	9.68	0.11	9.88
QP	11.137M	16.24	60.00	-43.76	19.83	Neutral	-	-3.59	9.73	0.21	9.89
AV	11.137M	14.72	50.00	-35.28	19.83	Neutral	-	-5.11	9.73	0.21	9.89
QP	25.652M	22.15	60.00	-37.85	19.93	Neutral	-	2.22	9.72	0.32	9.89
AV	25.652M	18.67	50.00	-31.33	19.93	Neutral	-	-1.26	9.72	0.32	9.89

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)_Nss1_1TX(Port1)	800k	764.618k	765KF1D	795k	760.87k
BT-EDR(2Mbps)_Nss1_1TX(Port1)	1.305M	1.186M	1M19G1D	1.303M	1.184M
BT-EDR(3Mbps)_Nss1_1TX(Port1)	1.285M	1.193M	1M19G1D	1.279M	1.184M

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

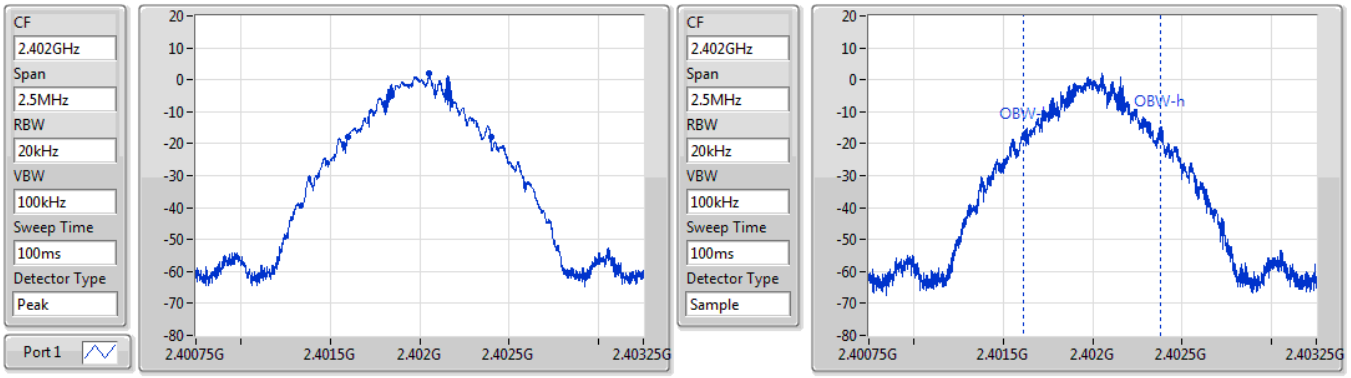
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)_Nss1_1TX(Port1)	-	-	-	-
2402MHz	Pass	Inf	800k	762.119k
2440MHz	Pass	Inf	795k	760.87k
2480MHz	Pass	Inf	798.75k	764.618k
BT-EDR(2Mbps)_Nss1_1TX(Port1)	-	-	-	-
2402MHz	Pass	Inf	1.305M	1.184M
2440MHz	Pass	Inf	1.305M	1.186M
2480MHz	Pass	Inf	1.303M	1.184M
BT-EDR(3Mbps)_Nss1_1TX(Port1)	-	-	-	-
2402MHz	Pass	Inf	1.28M	1.184M
2440MHz	Pass	Inf	1.285M	1.193M
2480MHz	Pass	Inf	1.279M	1.189M

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

BT-BR(1Mbps)_Nss1_1TX(Port1) EBW-FS

2402MHz

19/10/2021

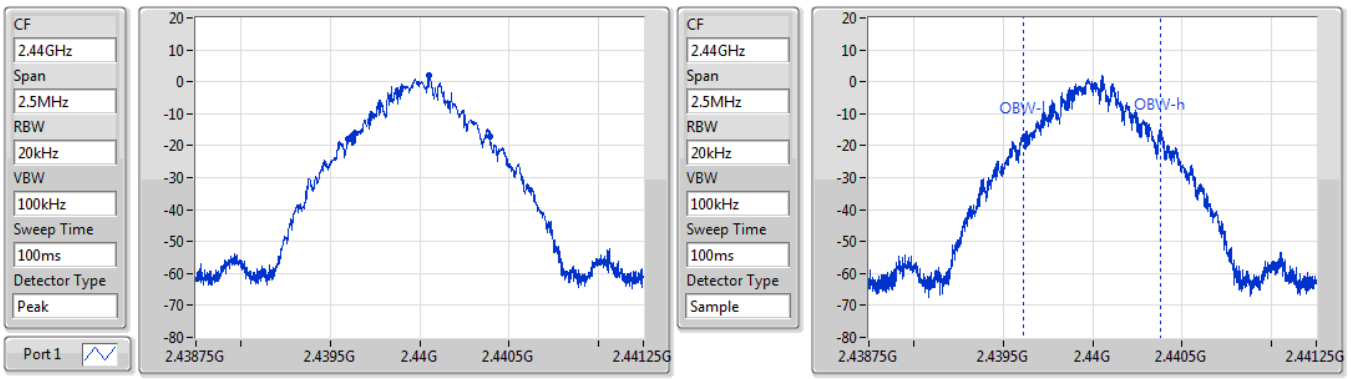


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
800k	2.401598G	2.402398G	762.119k	2.401615G	2.402377G	Inf	1

BT-BR(1Mbps)_Nss1_1TX(Port1) EBW-FS

2440MHz

19/10/2021

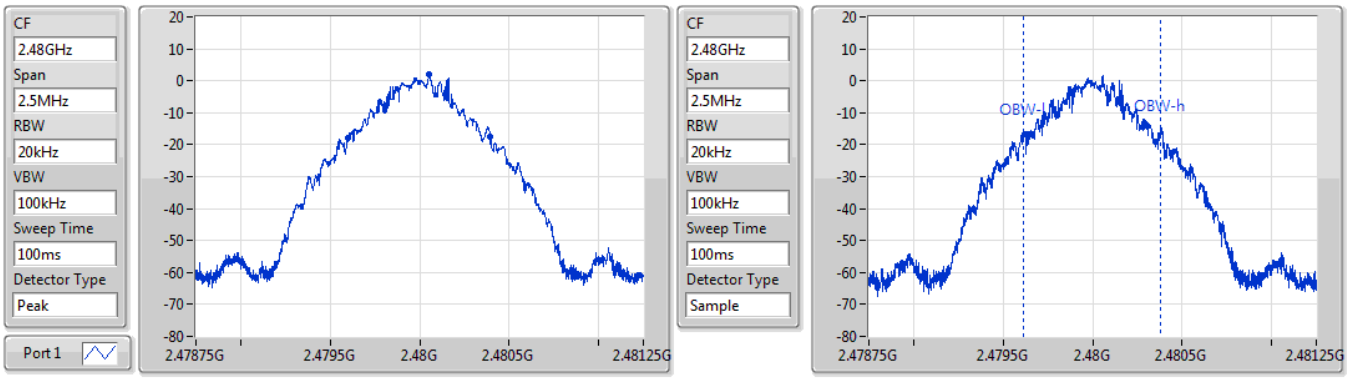


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
795k	2.4396G	2.440395G	760.87k	2.439616G	2.440377G	Inf	1

BT-BR(1Mbps)_Nss1_1TX(Port1) EBW-FS

2480MHz

19/10/2021

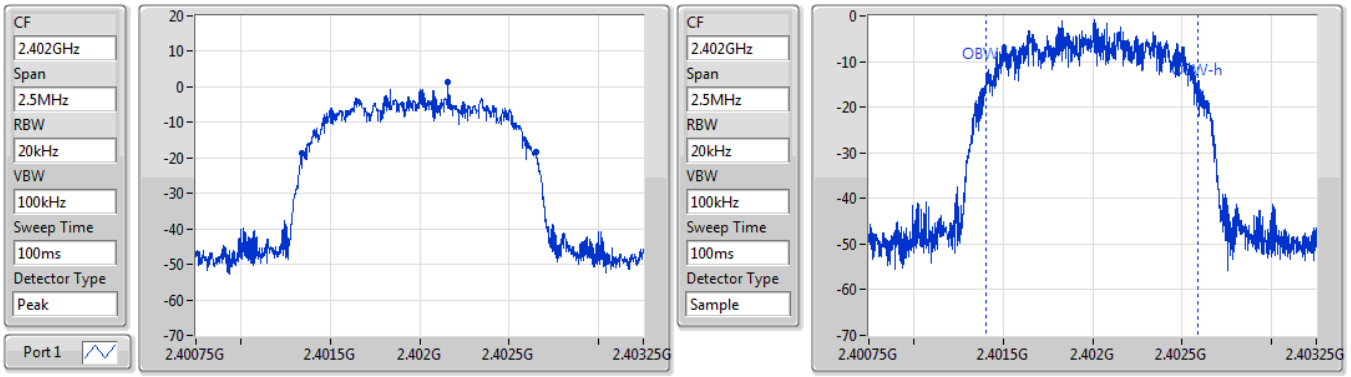


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
798.75k	2.479598G	2.480396G	764.618k	2.479615G	2.48038G	Inf	1

BT-EDR(2Mbps)_Nss1_1TX(Port1) EBW-FS

2402MHz

19/10/2021

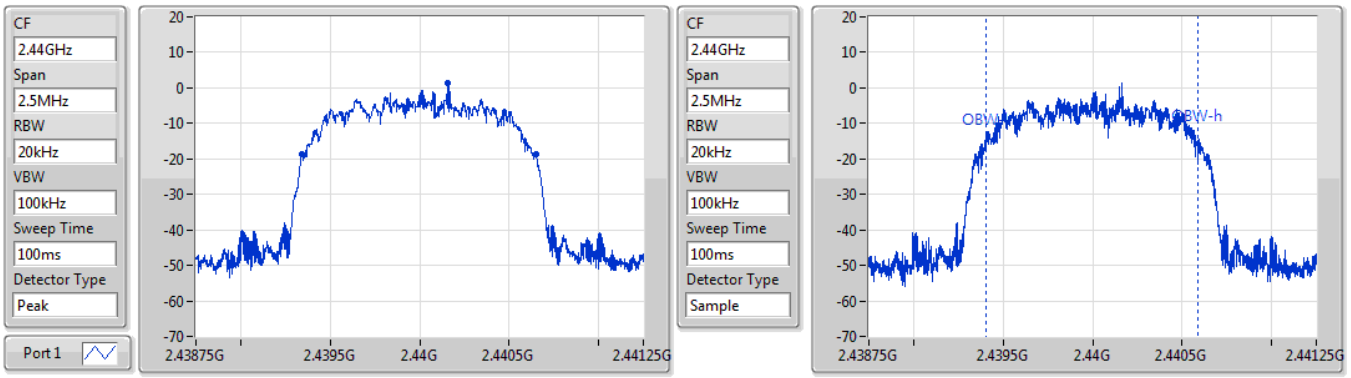


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.305M	2.401344G	2.402649G	1.184M	2.401404G	2.402588G	Inf	1

BT-EDR(2Mbps)_Nss1_1TX(Port1) EBW-FS

2440MHz

19/10/2021

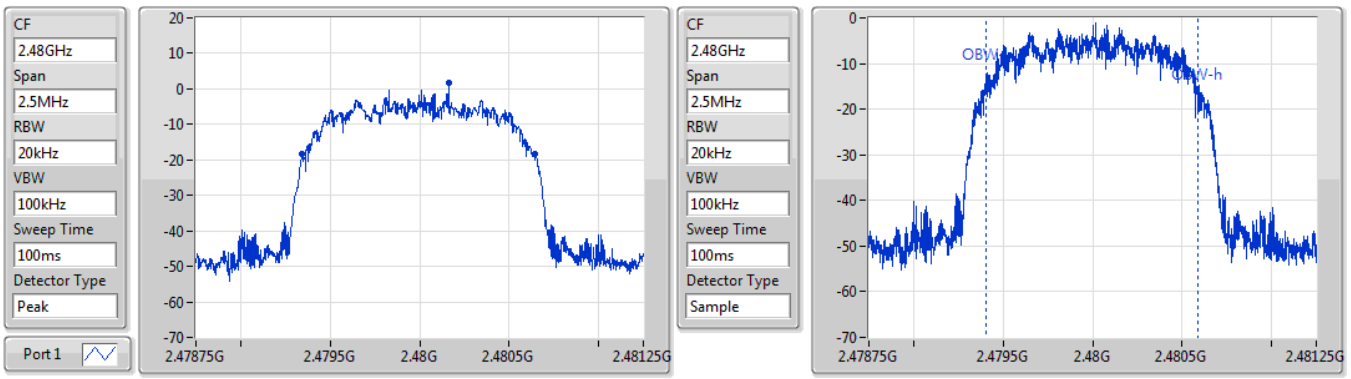


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.305M	2.439344G	2.440649G	1.186M	2.439404G	2.44059G	Inf	1

BT-EDR(2Mbps)_Nss1_1TX(Port1) EBW-FS

2480MHz

19/10/2021

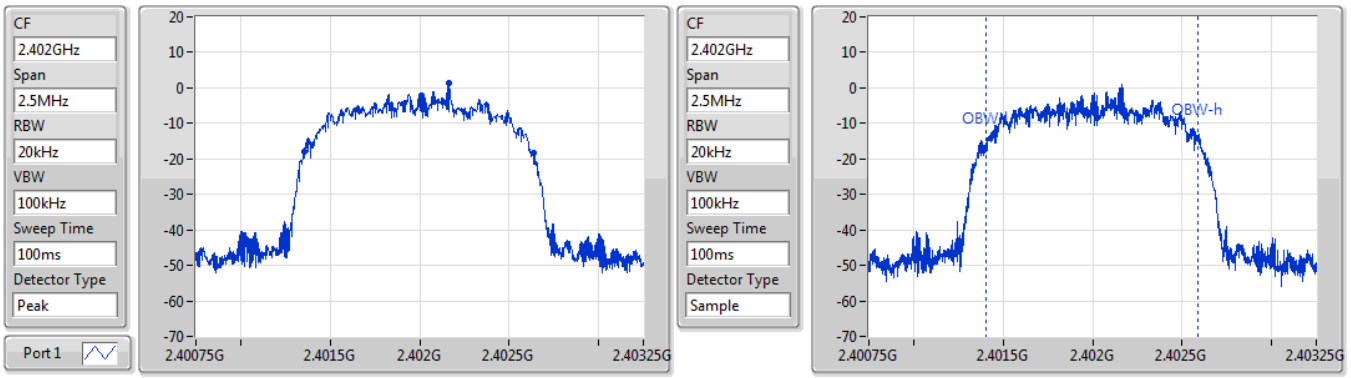


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.303M	2.479345G	2.480648G	1.184M	2.479403G	2.480587G	Inf	1

BT-EDR(3Mbps)_Nss1_1TX(Port1) EBW-FS

2402MHz

19/10/2021

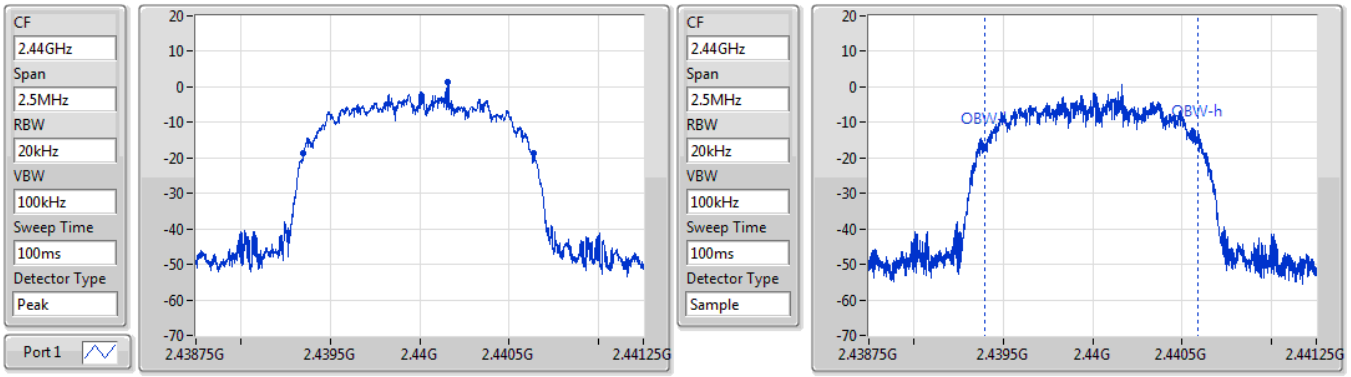


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.28M	2.401354G	2.402634G	1.184M	2.401405G	2.40259G	Inf	1

BT-EDR(3Mbps)_Nss1_1TX(Port1) EBW-FS

2440MHz

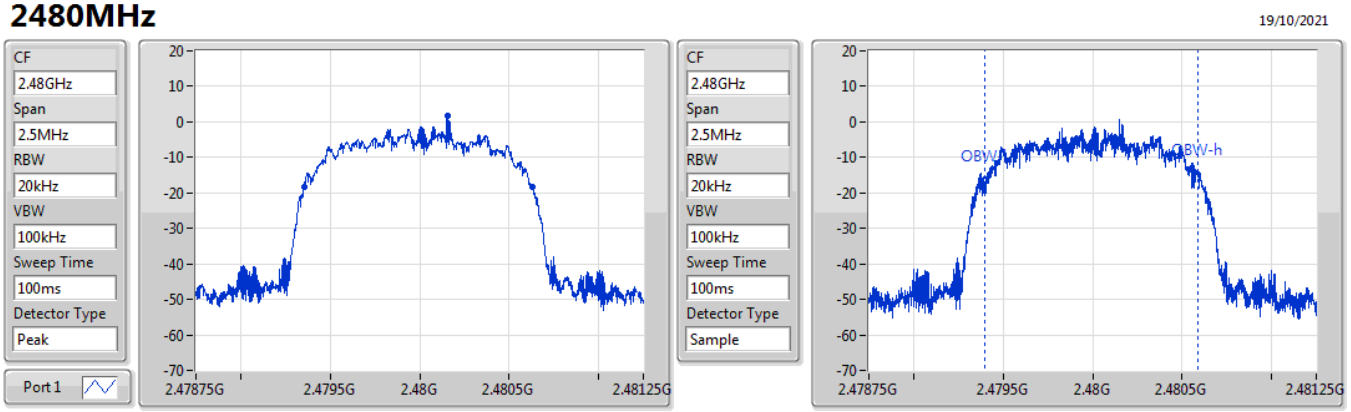
19/10/2021



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.285M	2.43935G	2.440635G	1.193M	2.439397G	2.44059G	Inf	1

BT-EDR(3Mbps)_Nss1_1TX(Port1) **EBW-FS**

2480MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.279M	2.479353G	2.480631G	1.189M	2.479399G	2.480588G	Inf	1

Summary

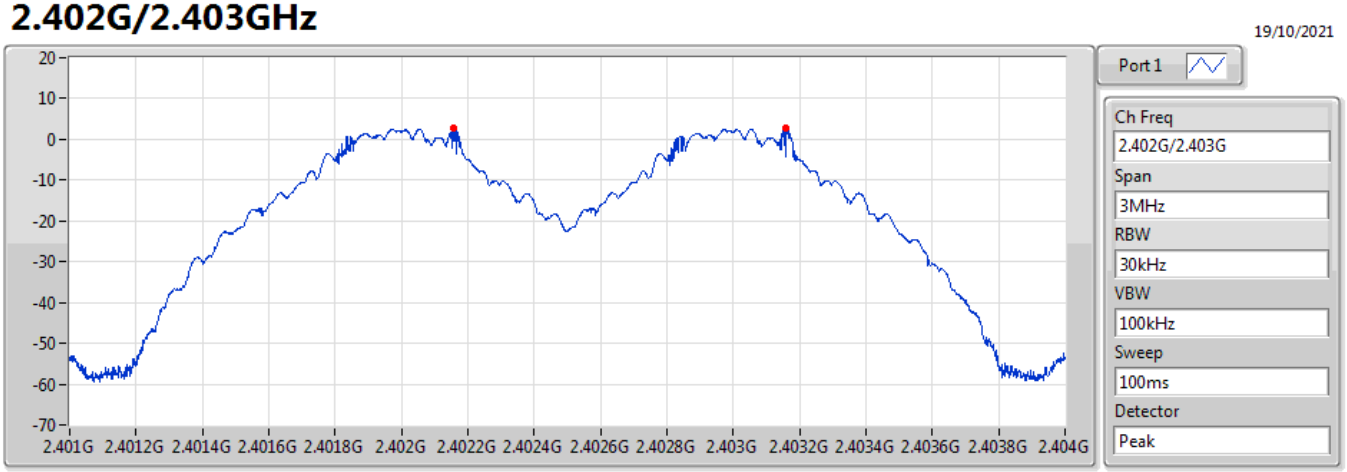
Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)_Nss1_1TX(Port1)	1.0005M	994.5k
BT-EDR(2Mbps)_Nss1_1TX(Port1)	1.0035M	999k
BT-EDR(3Mbps)_Nss1_1TX(Port1)	1.002M	999k

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)_Nss1_1TX(Port1)	-	-	-	-	-
2402MHz	Pass	2.402158G	2.403159G	1.0005M	532.8k
2440MHz	Pass	2.440163G	2.441157G	994.5k	529.47k
2480MHz	Pass	2.479158G	2.480157G	999k	531.9675k
BT-EDR(2Mbps)_Nss1_1TX(Port1)	-	-	-	-	-
2402MHz	Pass	2.402158G	2.403162G	1.0035M	869.13k
2440MHz	Pass	2.440158G	2.44116G	1.002M	869.13k
2480MHz	Pass	2.47916G	2.480159G	999k	867.798k
BT-EDR(3Mbps)_Nss1_1TX(Port1)	-	-	-	-	-
2402MHz	Pass	2.40216G	2.403159G	999k	852.48k
2440MHz	Pass	2.440157G	2.441159G	1.002M	855.81k
2480MHz	Pass	2.479158G	2.480159G	1.0005M	851.814k

BT-BR(1Mbps)_Nss1_1TX(Port1) Channel Separation-FS

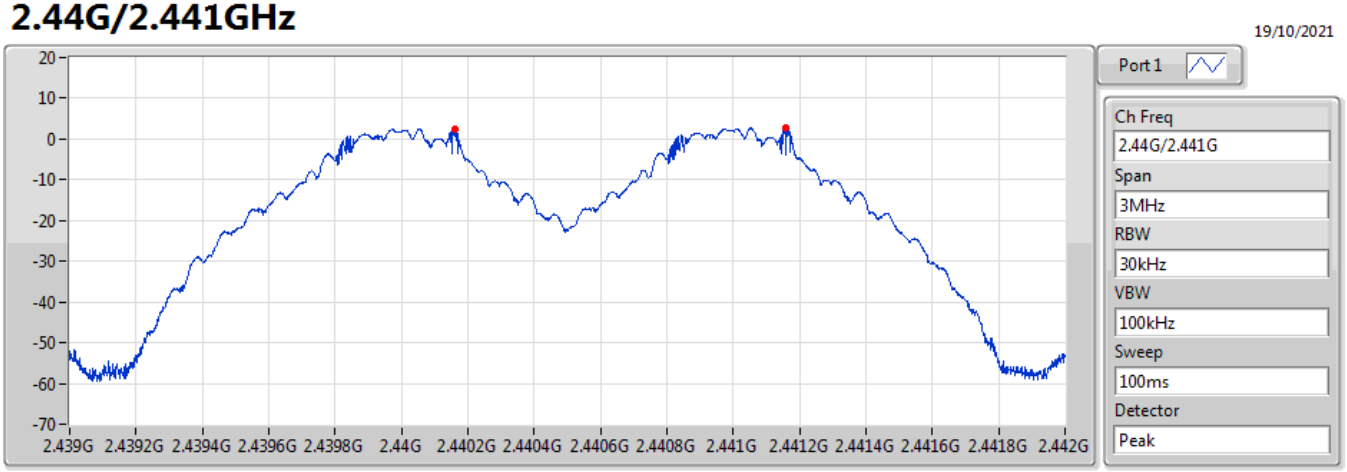
2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402158G	2.403159G	1.0005M	532.8k

BT-BR(1Mbps)_Nss1_1TX(Port1) Channel Separation-FS

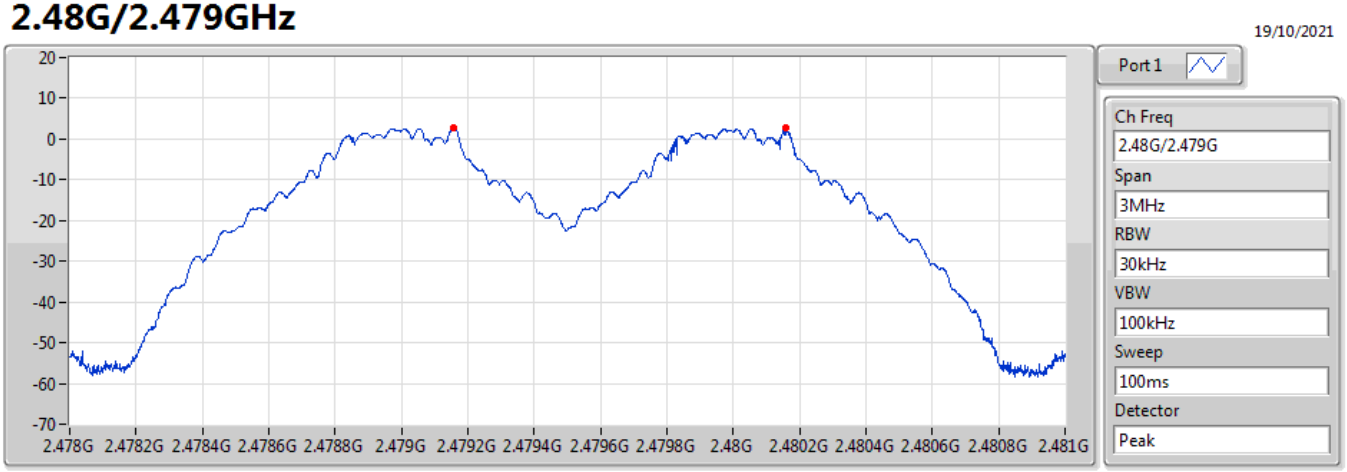
2.44G/2.441GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440163G	2.441157G	994.5k	529.47k

BT-BR(1Mbps)_Nss1_1TX(Port1) Channel Separation-FS

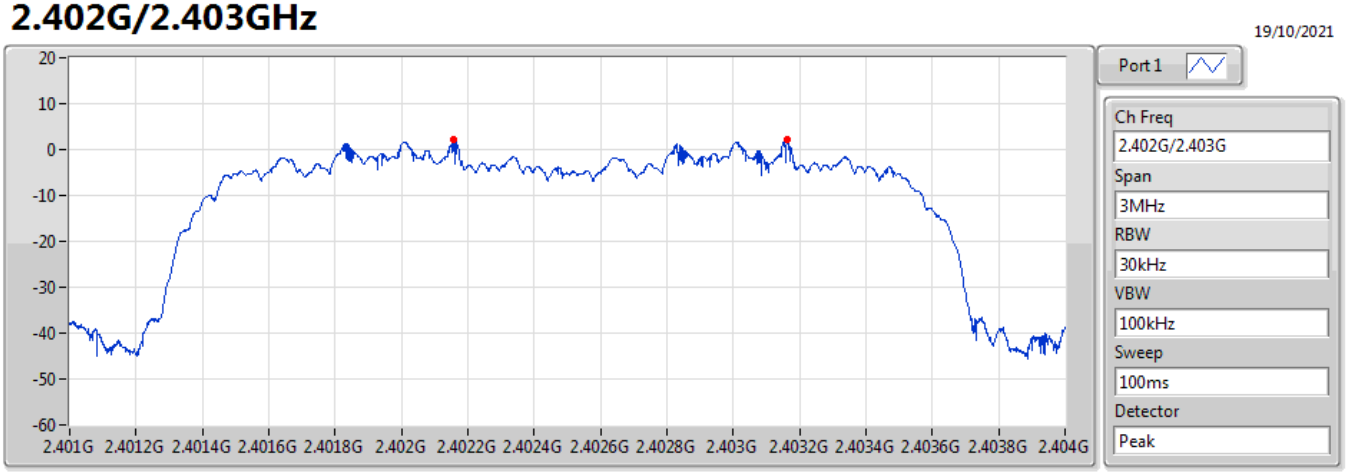
2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479158G	2.480157G	999k	531.9675k

BT-EDR(2Mbps)_Nss1_1TX(Port1) Channel Separation-FS

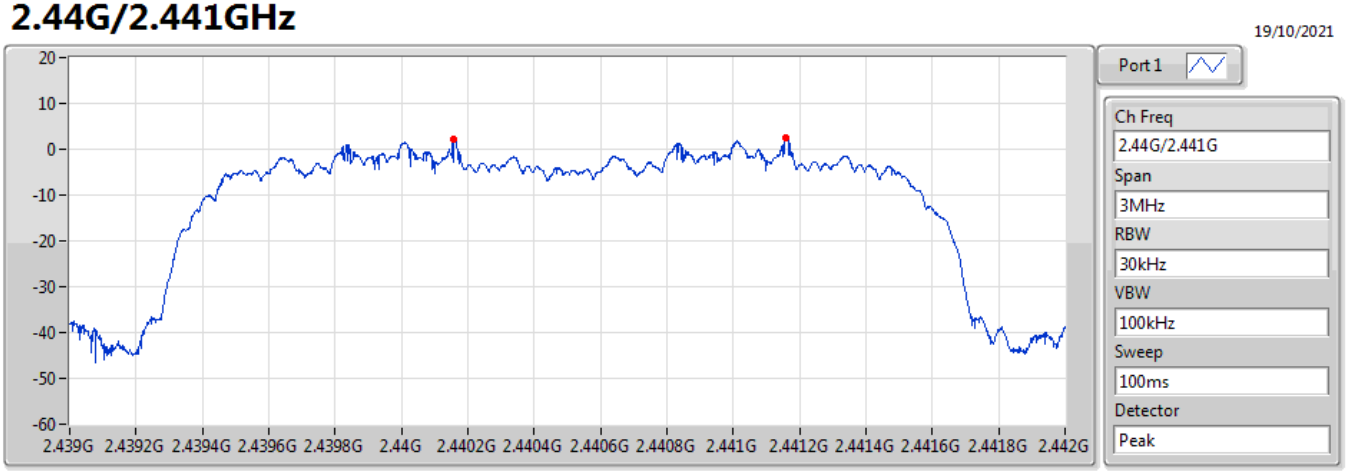
2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402158G	2.403162G	1.0035M	869.13k

BT-EDR(2Mbps)_Nss1_1TX(Port1) Channel Separation-FS

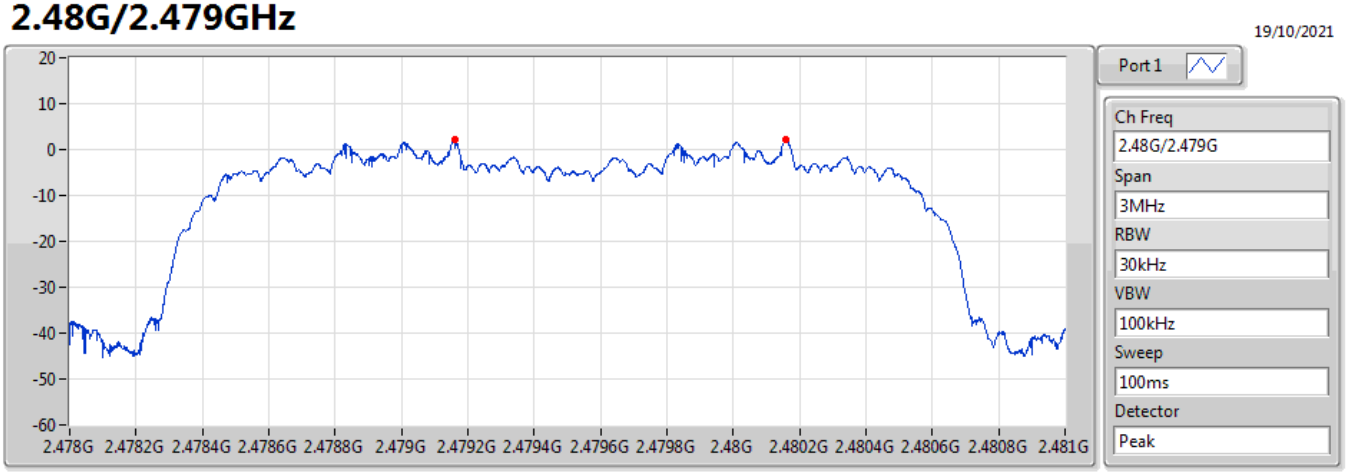
2.44G/2.441GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440158G	2.44116G	1.002M	869.13k

BT-EDR(2Mbps)_Nss1_1TX(Port1) Channel Separation-FS

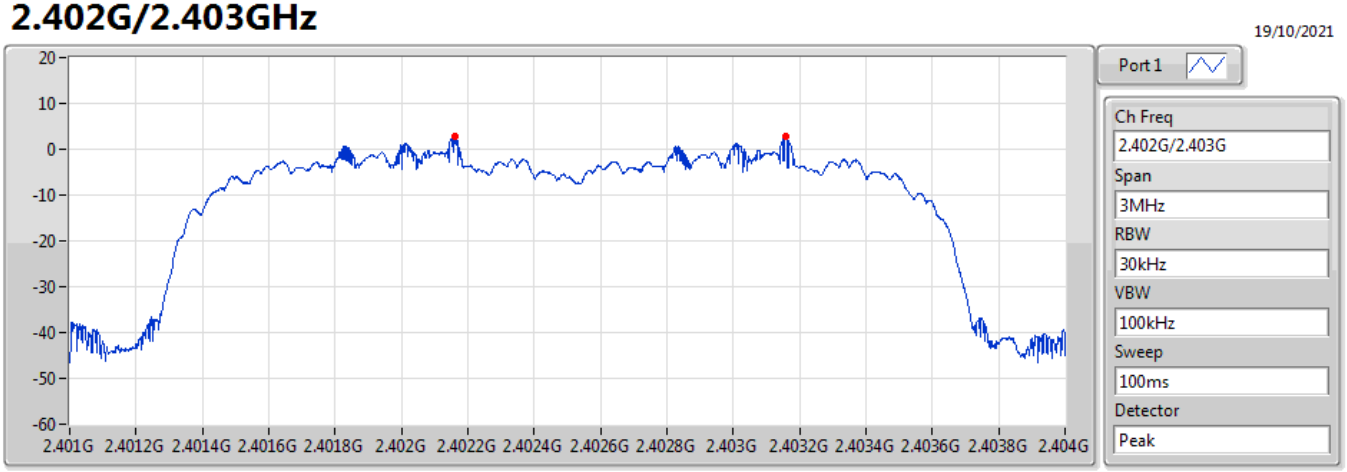
2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.47916G	2.480159G	999k	867.798k

BT-EDR(3Mbps)_Nss1_1TX(Port1) Channel Separation-FS

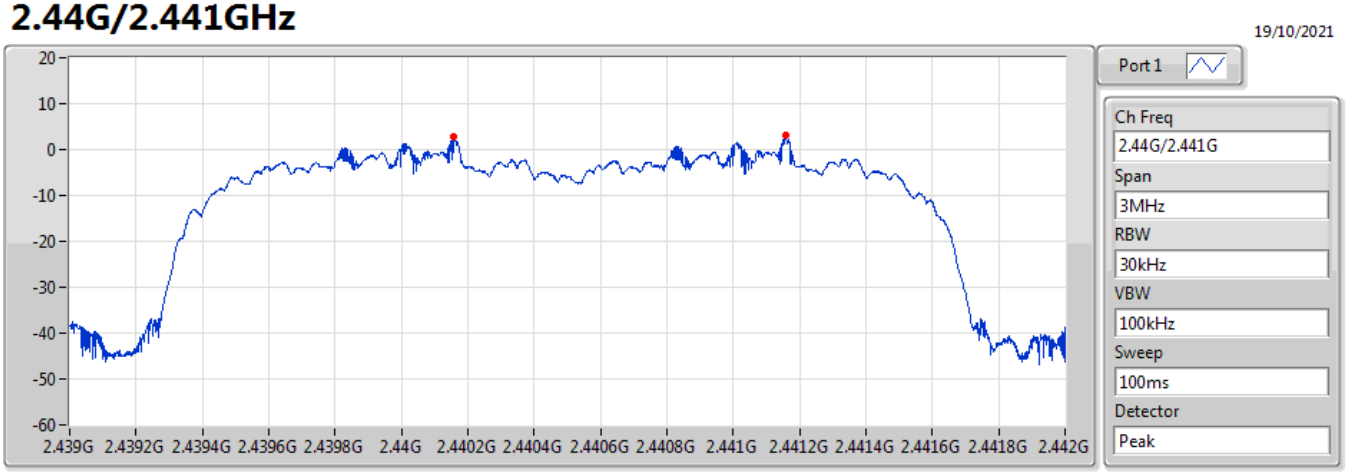
2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.40216G	2.403159G	999k	852.48k

BT-EDR(3Mbps)_Nss1_1TX(Port1) Channel Separation-FS

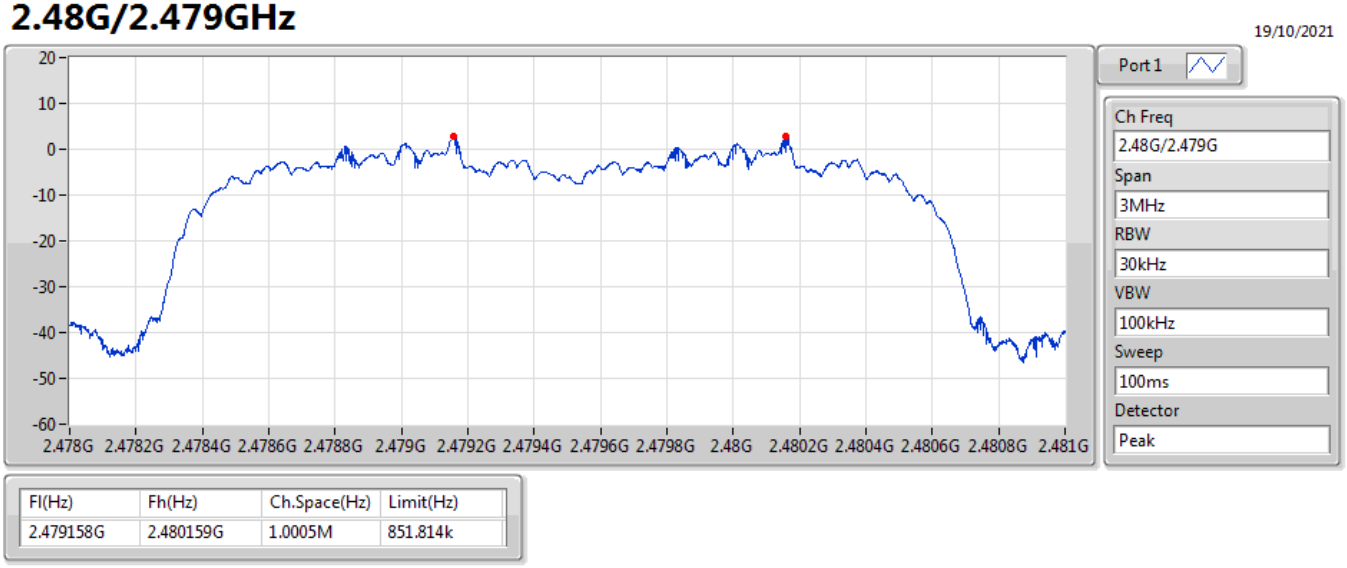
2.44G/2.441GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440157G	2.441159G	1.002M	855.81k

BT-EDR(3Mbps)_Nss1_1TX(Port1) **Channel Separation-FS**

2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479158G	2.480159G	1.0005M	851.814k

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)_Nss1_1TX(Port1)	5.69	0.00371
BT-EDR(2Mbps)_Nss1_1TX(Port1)	8.13	0.00650
BT-EDR(3Mbps)_Nss1_1TX(Port1)	8.39	0.00690

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)_Nss1_1TX(Port1)	-	-	-	-
2402MHz	Pass	0.78	5.68	21.00
2440MHz	Pass	0.78	5.59	21.00
2480MHz	Pass	0.78	5.69	21.00
BT-EDR(2Mbps)_Nss1_1TX(Port1)	-	-	-	-
2402MHz	Pass	0.78	8.13	21.00
2440MHz	Pass	0.78	7.99	21.00
2480MHz	Pass	0.78	7.94	21.00
BT-EDR(3Mbps)_Nss1_1TX(Port1)	-	-	-	-
2402MHz	Pass	0.78	8.35	21.00
2440MHz	Pass	0.78	8.36	21.00
2480MHz	Pass	0.78	8.39	21.00

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

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)_Nss1_1TX(Port1)	5.62	0.00365
BT-EDR(2Mbps)_Nss1_1TX(Port1)	5.79	0.00379
BT-EDR(3Mbps)_Nss1_1TX(Port1)	5.79	0.00379

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)_Nss1_1TX(Port1)	-	-	-	-
2402MHz	Pass	0.78	5.50	21.00
2440MHz	Pass	0.78	5.43	21.00
2480MHz	Pass	0.78	5.62	21.00
BT-EDR(2Mbps)_Nss1_1TX(Port1)	-	-	-	-
2402MHz	Pass	0.78	5.58	21.00
2440MHz	Pass	0.78	5.70	21.00
2480MHz	Pass	0.78	5.79	21.00
BT-EDR(3Mbps)_Nss1_1TX(Port1)	-	-	-	-
2402MHz	Pass	0.78	5.79	21.00
2440MHz	Pass	0.78	5.68	21.00
2480MHz	Pass	0.78	5.77	21.00

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

Summary

Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)_Nss1_1TX(Port1)	79
BT-EDR(2Mbps)_Nss1_1TX(Port1)	79
BT-EDR(3Mbps)_Nss1_1TX(Port1)	79

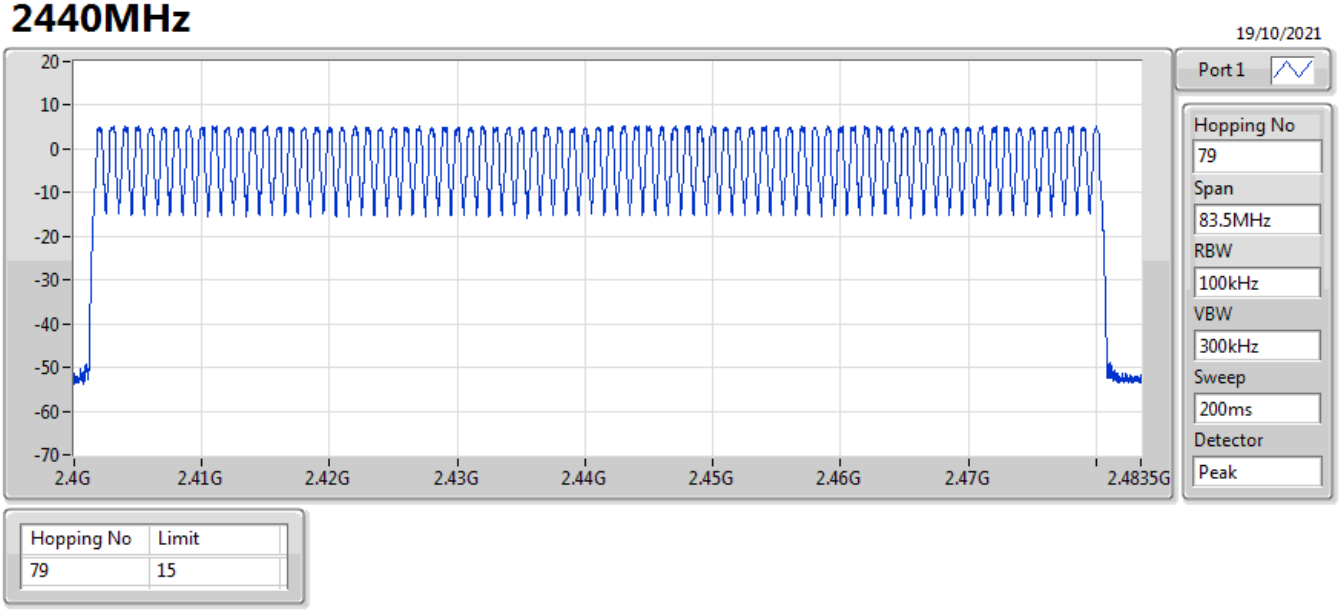
Result

Mode	Result	Hopping No	Limit
BT-BR(1Mbps)_Nss1_1TX(Port1)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)_Nss1_1TX(Port1)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)_Nss1_1TX(Port1)	-	-	-
2440MHz	Pass	79	15

BT-BR(1Mbps)_Nss1_1TX(Port1)

Hopping-FS

2440MHz

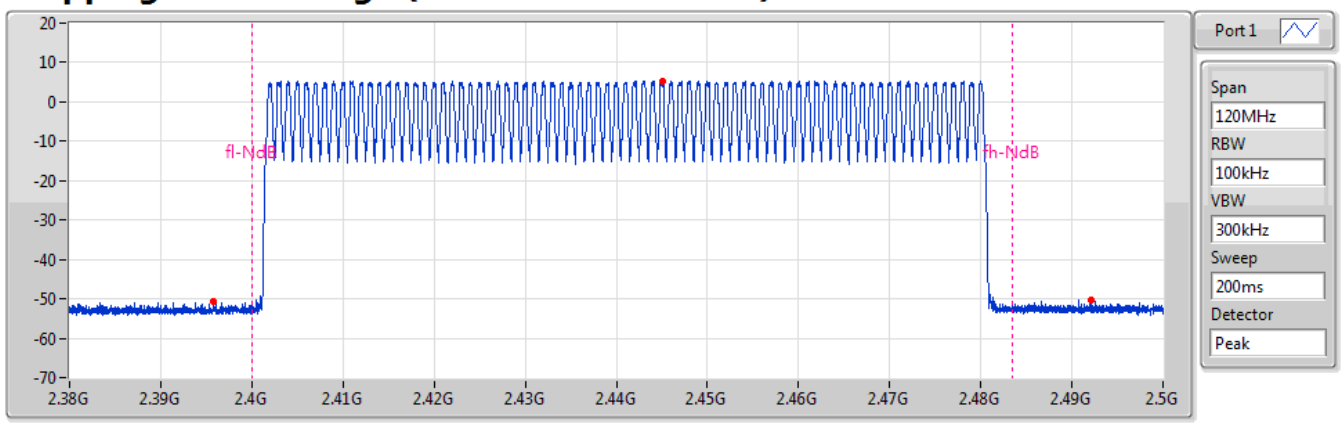


Hopping No	Limit
79	15

BT-BR(1Mbps)_Nss1_1TX(Port1)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

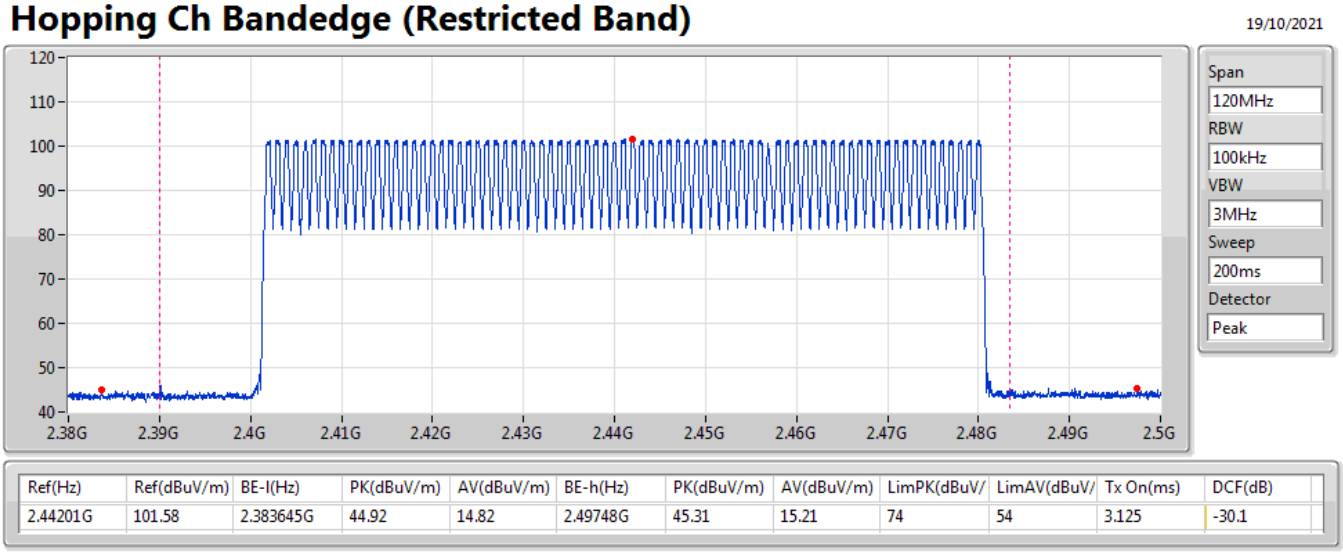


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-14.71	2.44501G	5.29	2.39575G	-50.8	2.49211G	-50.18

BT-BR(1Mbps)_Nss1_1TX(Port1)

2440MHz

Hopping Ch Bandedge (Restricted Band)

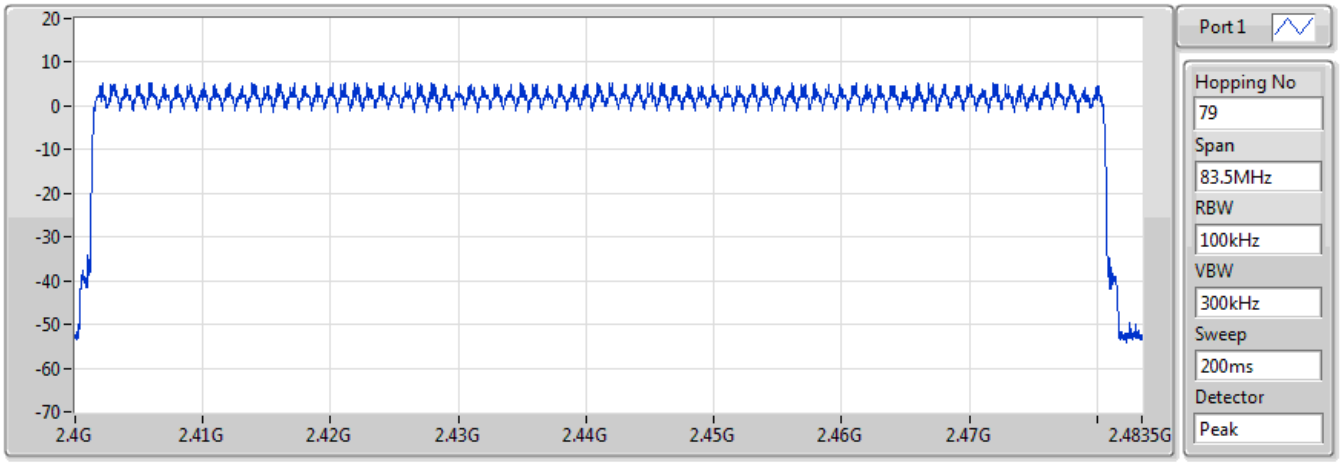


Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.44201G	101.58	2.383645G	44.92	14.82	2.49748G	45.31	15.21	74	54	3.125	-30.1

BT-EDR(2Mbps)_Nss1_1TX(Port1)

Hopping-FS

2440MHz

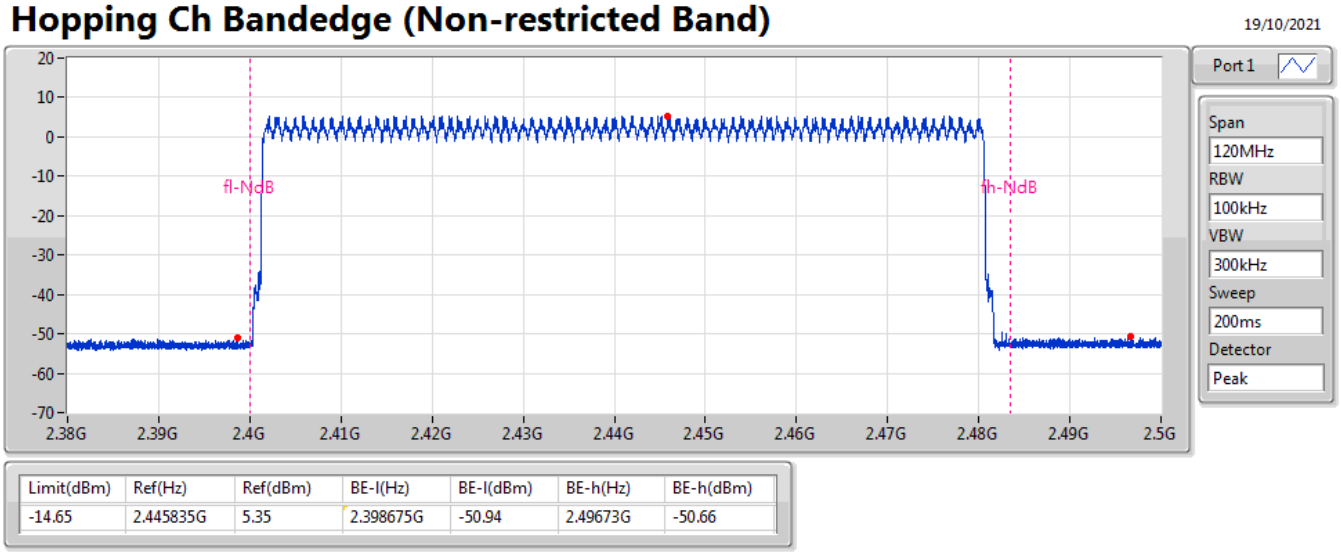


Hopping No	Limit
79	15

BT-EDR(2Mbps)_Nss1_1TX(Port1)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

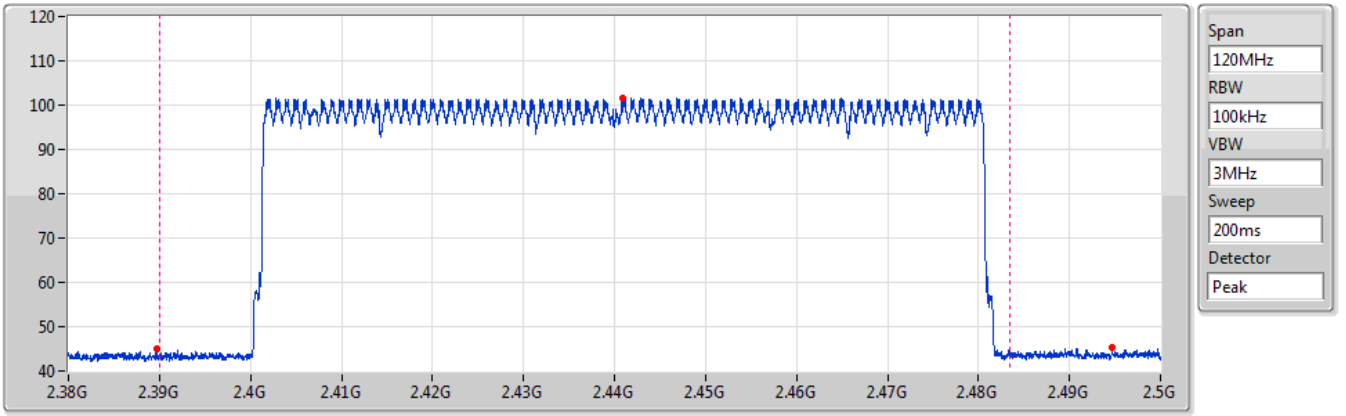


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-14.65	2.445835G	5.35	2.398675G	-50.94	2.49673G	-50.66

BT-EDR(2Mbps)_Nss1_1TX(Port1)

2440MHz

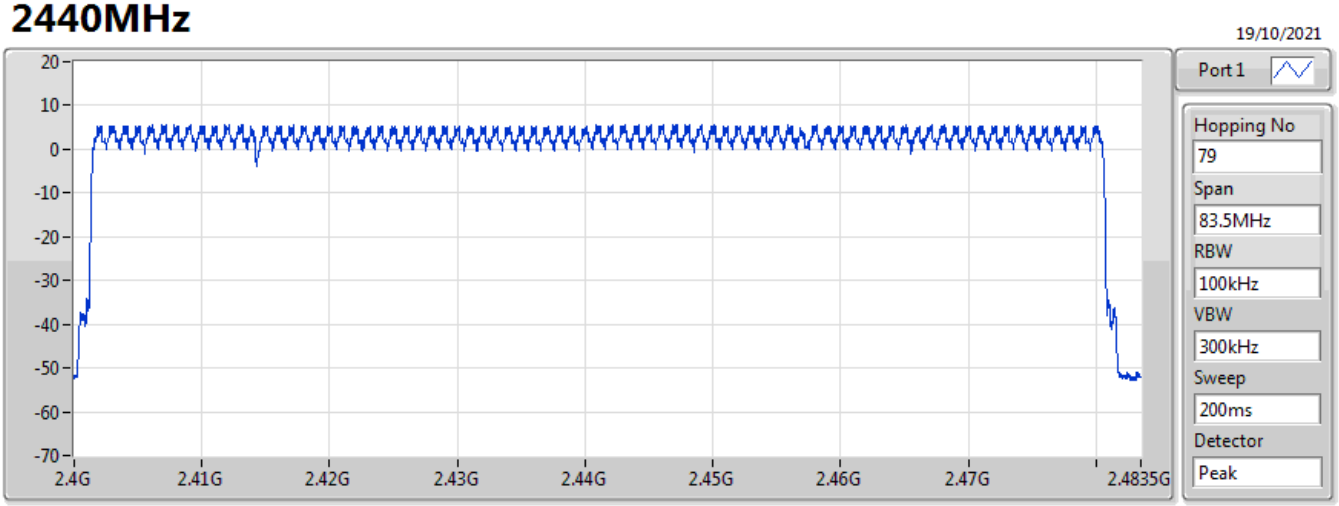
Hopping Ch Bandedge (Restricted Band)



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)
2.44084G	101.56	2.389675G	44.99	14.89	2.494705G	45.3	15.2	74	54	3.125	-30.1

BT-EDR(3Mbps)_Nss1_1TX(Port1) Hopping-FS

2440MHz

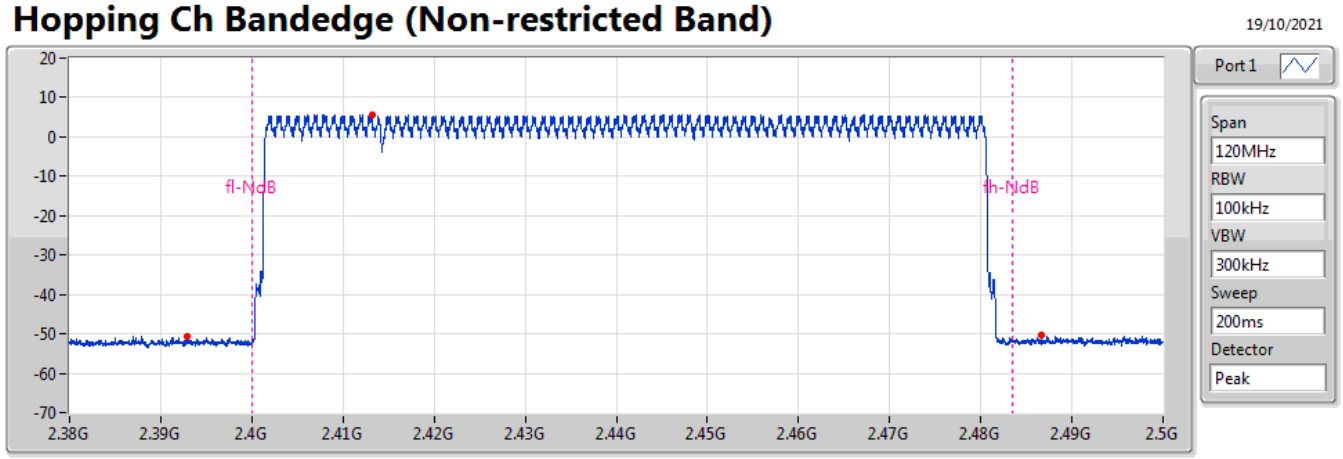


Hopping No	Limit
79	15

BT-EDR(3Mbps)_Nss1_1TX(Port1)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

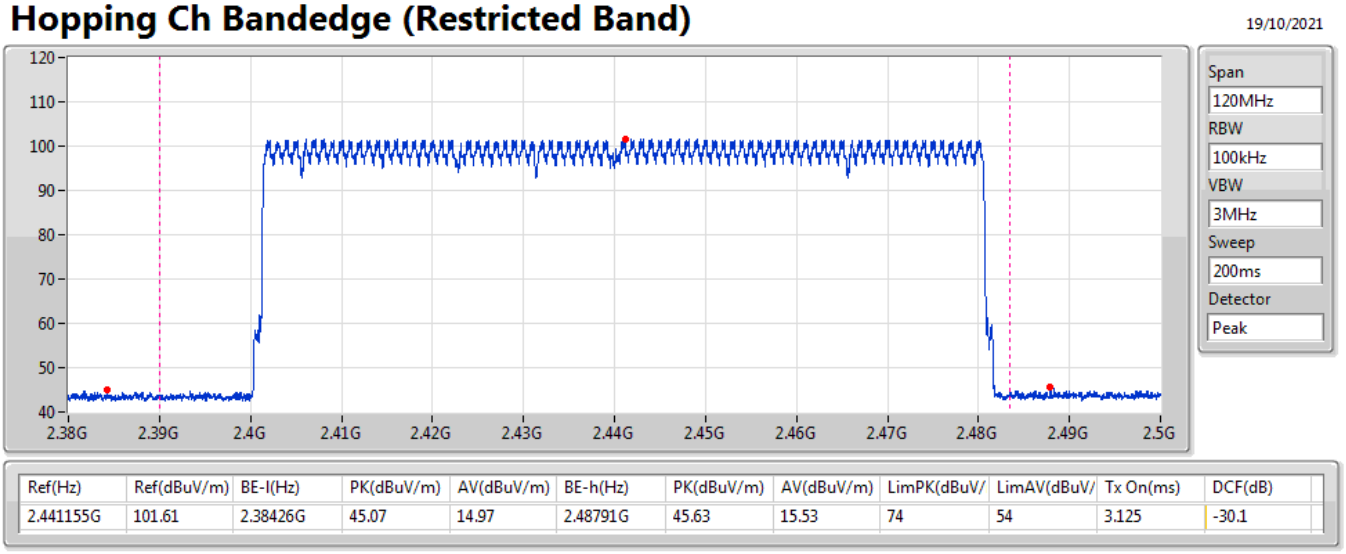


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-14.43	2.41315G	5.57	2.392825G	-50.8	2.48662G	-50.23

BT-EDR(3Mbps)_Nss1_1TX(Port1)

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)
2.441155G	101.61	2.38426G	45.07	14.97	2.48791G	45.63	15.53	74	54	3.125	-30.1

Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)_Nss1_1TX(Port1)	307.30115m_DH5
BT-EDR(2Mbps)_Nss1_1TX(Port1)	307.7542m_DH5
BT-EDR(3Mbps)_Nss1_1TX(Port1)	308.0207m_DH5

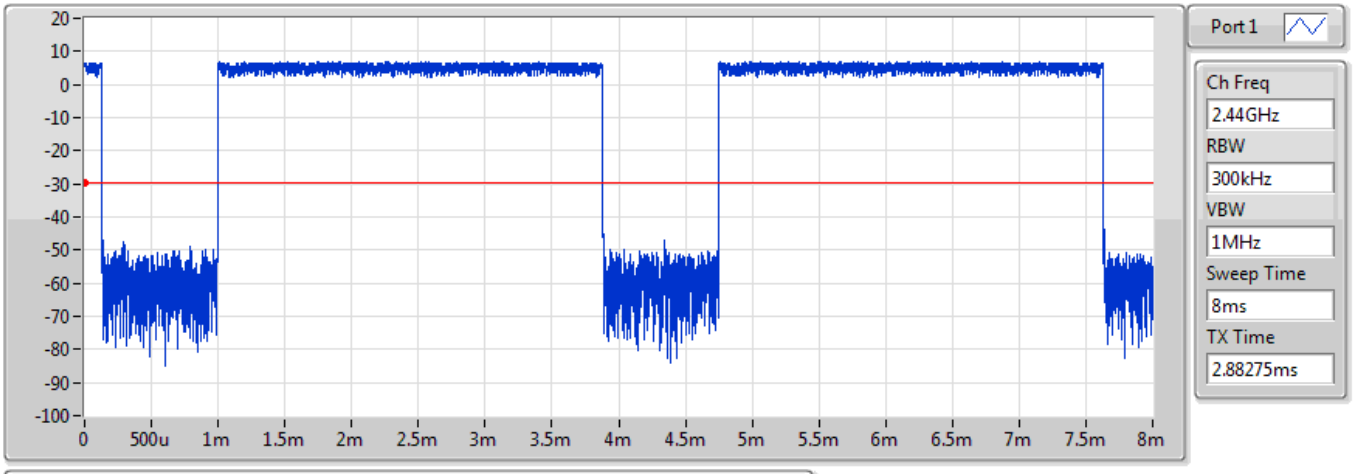
Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)_Nss1_1TX(Port1)	-	-	-	-	-
2440MHz	Pass	31.6	307.30115m_DH5	400m	2.88275m
2440MHz	Pass	8	153.650575m_DH5-AFH	400m	2.88275m
BT-EDR(2Mbps)_Nss1_1TX(Port1)	-	-	-	-	-
2440MHz	Pass	31.6	307.7542m_DH5	400m	2.887m
2440MHz	Pass	8	153.890425m_DH5-AFH	400m	2.88725m
BT-EDR(3Mbps)_Nss1_1TX(Port1)	-	-	-	-	-
2440MHz	Pass	31.6	308.0207m_DH5	400m	2.8895m
2440MHz	Pass	8	154.01035m_DH5-AFH	400m	2.8895m

BT-BR(1Mbps)_Nss1_1TX(Port1) Dwell-FS

2440MHz

19/10/2021



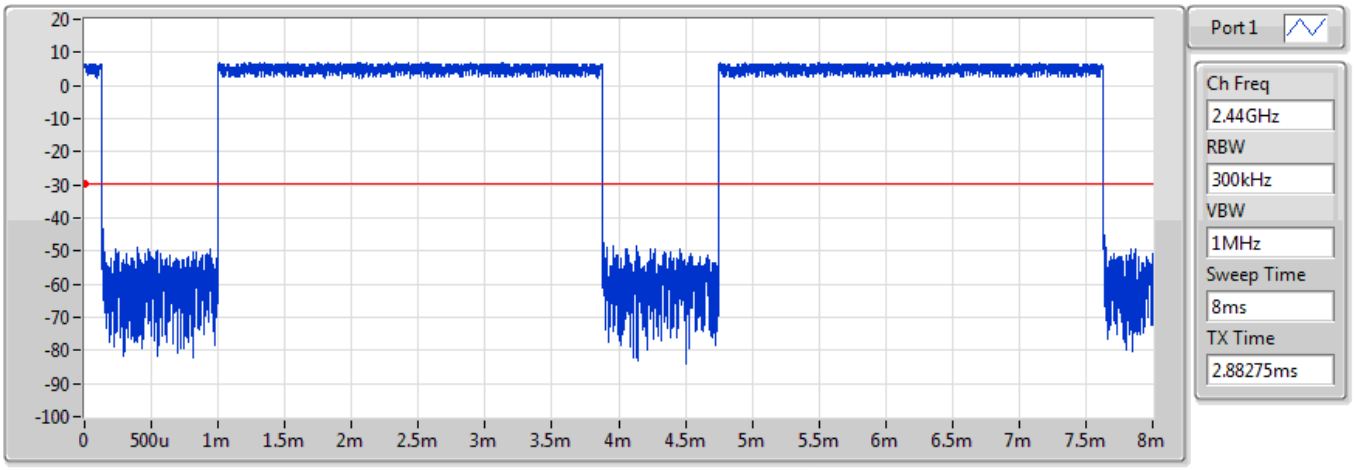
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	307.30115m_DH5	400m	2.88275m

DH5

BT-BR(1Mbps)_Nss1_1TX(Port1) Dwell-FS

2440MHz

19/10/2021

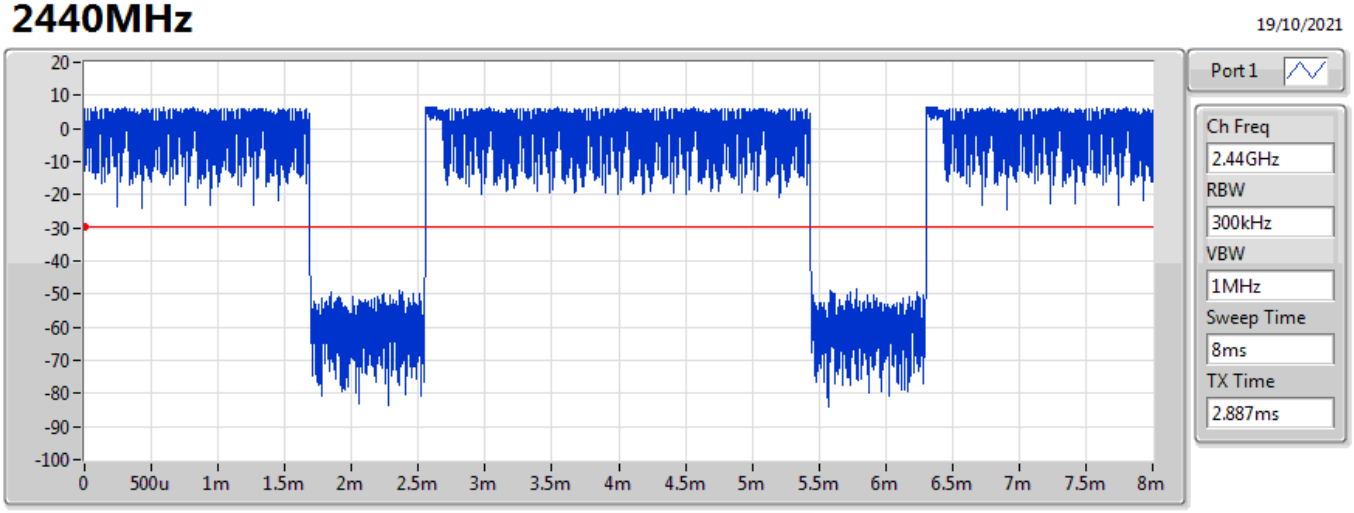


Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	153.650575m_DH5-AFI	400m	2.88275m

DH5-AFH

BT-EDR(2Mbps)_Nss1_1TX(Port1) Dwell-FS

2440MHz

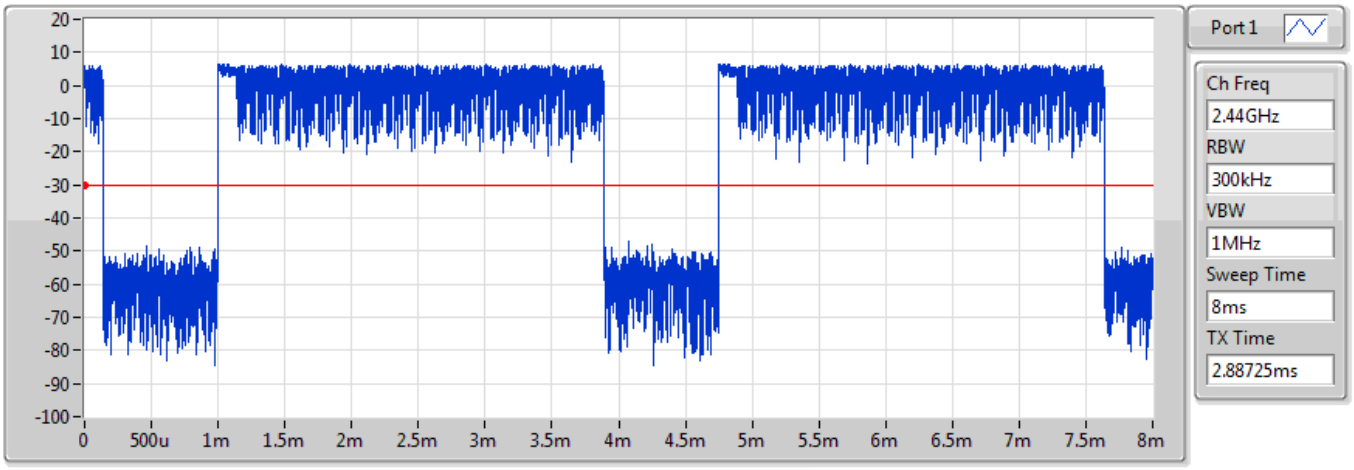


Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	307.7542m_DH5	400m	2.887m

DH5

BT-EDR(2Mbps)_Nss1_1TX(Port1) Dwell-FS

2440MHz



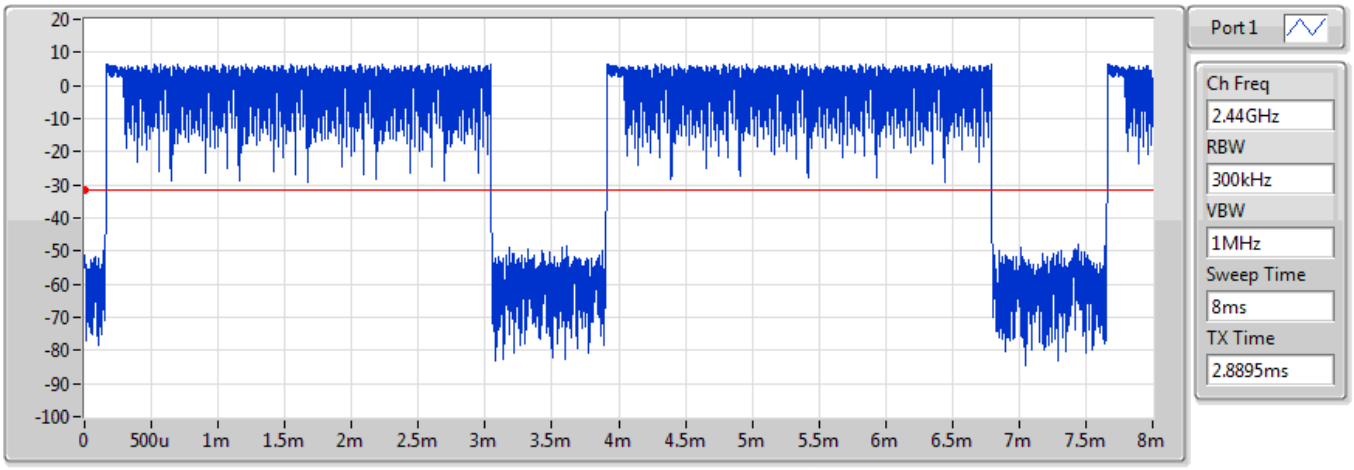
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	153.890425m_DH5-AFI	400m	2.88725m

DH5-AFH

BT-EDR(3Mbps)_Nss1_1TX(Port1) Dwell-FS

2440MHz

19/10/2021



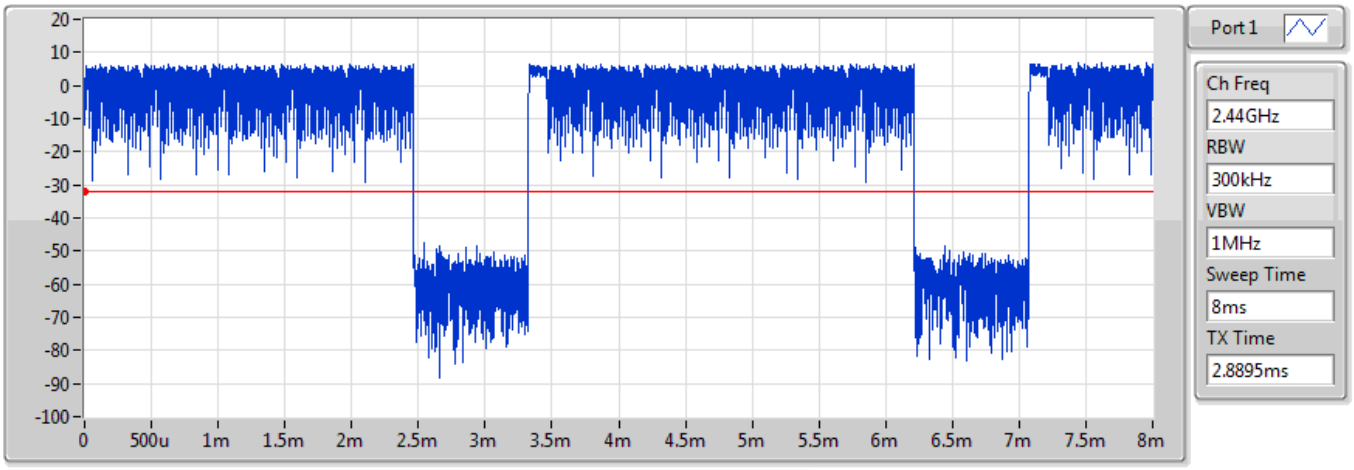
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.0207m_DH5	400m	2.8895m

DH5

BT-EDR(3Mbps)_Nss1_1TX(Port1) Dwell-FS

2440MHz

19/10/2021



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.01035m_DH5-AFH	400m	2.8895m

DH5-AFH

Summary

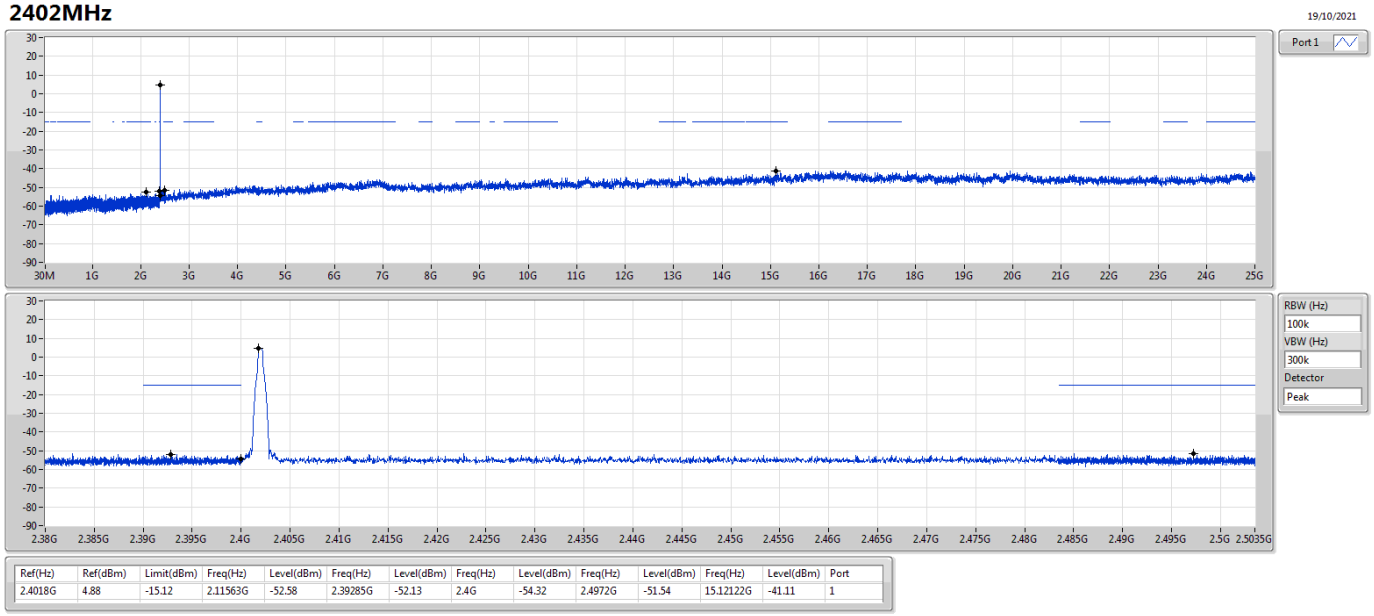
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)_Nss1_1TX(Port1)	Pass	2.4018G	4.88	-15.12	2.11563G	-52.58	2.39285G	-52.13	2.4G	-54.32	2.4972G	-51.54	15.12122G	-41.11	1
BT-EDR(2Mbps)_Nss1_1TX(Port1)	Pass	2.47999G	4.67	-15.33	2.14441G	-53.03	2.39747G	-51.04	2.4G	-55.22	2.48392G	-51.74	24.56413G	-40.81	1
BT-EDR(3Mbps)_Nss1_1TX(Port1)	Pass	2.47987G	4.11	-15.89	2.30921G	-52.35	2.39623G	-52.29	2.4835G	-55.07	2.4927G	-51.37	16.45695G	-40.89	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)_Nss1_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.4018G	4.88	-15.12	2.11563G	-52.58	2.39285G	-52.13	2.4G	-54.32	2.4972G	-51.54	15.12122G	-41.11	1
2440MHz	Pass	2.43983G	4.89	-15.11	2.11739G	-52.53	2.39933G	-51.84	2.4G	-54.89	2.49311G	-51.96	15.3012G	-41.24	1
2480MHz	Pass	2.47999G	4.87	-15.13	1.99607G	-52.32	2.39697G	-51.73	2.4835G	-55.16	2.50062G	-51.73	16.78878G	-39.47	1
BT-EDR(2Mbps)_Nss1_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	5.08	-14.92	1.76048G	-53.42	2.39354G	-52.48	2.4G	-54.78	2.49239G	-51.66	16.38946G	-39.59	1
2440MHz	Pass	2.44008G	4.15	-15.85	1.94819G	-53.86	2.3955G	-52.85	2.4835G	-54.39	2.48418G	-51.98	16.30229G	-40.37	1
2480MHz	Pass	2.47999G	4.67	-15.33	2.14441G	-53.03	2.39747G	-51.04	2.4G	-55.22	2.48392G	-51.74	24.56413G	-40.81	1
BT-EDR(3Mbps)_Nss1_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40213G	5.17	-14.83	859.84M	-52.72	2.39797G	-52.06	2.4835G	-54.51	2.48711G	-51.61	17.25277G	-41.12	1
2440MHz	Pass	2.43983G	3.98	-16.02	1.78281G	-53.31	2.39946G	-53.14	2.4835G	-54.79	2.48894G	-52.11	16.55538G	-40.69	1
2480MHz	Pass	2.47987G	4.11	-15.89	2.30921G	-52.35	2.39623G	-52.29	2.4835G	-55.07	2.4927G	-51.37	16.45695G	-40.89	1

BT-BR(1Mbps)_Nss1_1TX(Port1) **CSENdB-FS**

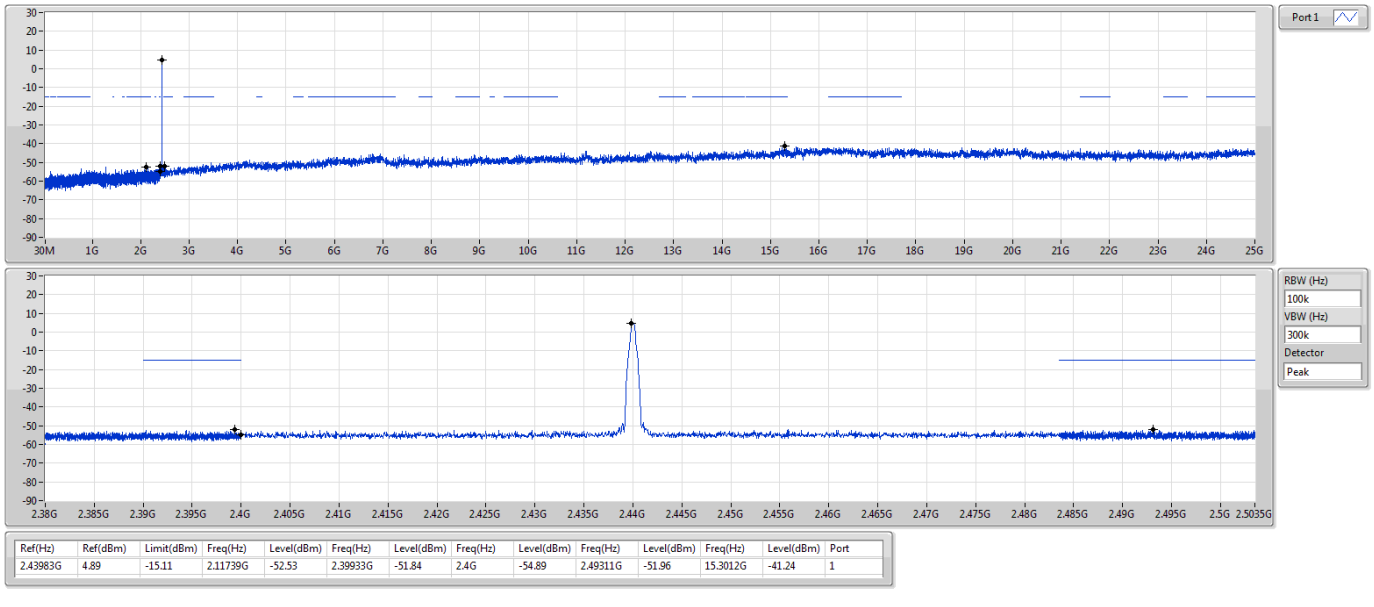
2402MHz



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
2.4018G	4.88	-15.12	2.11563G	-52.58	2.39285G	-52.13	2.4G	-54.32	2.4972G	-51.54	15.12122G	-41.11	1

BT-BR(1Mbps)_Nss1_1TX(Port1) **CSENdB-FS**

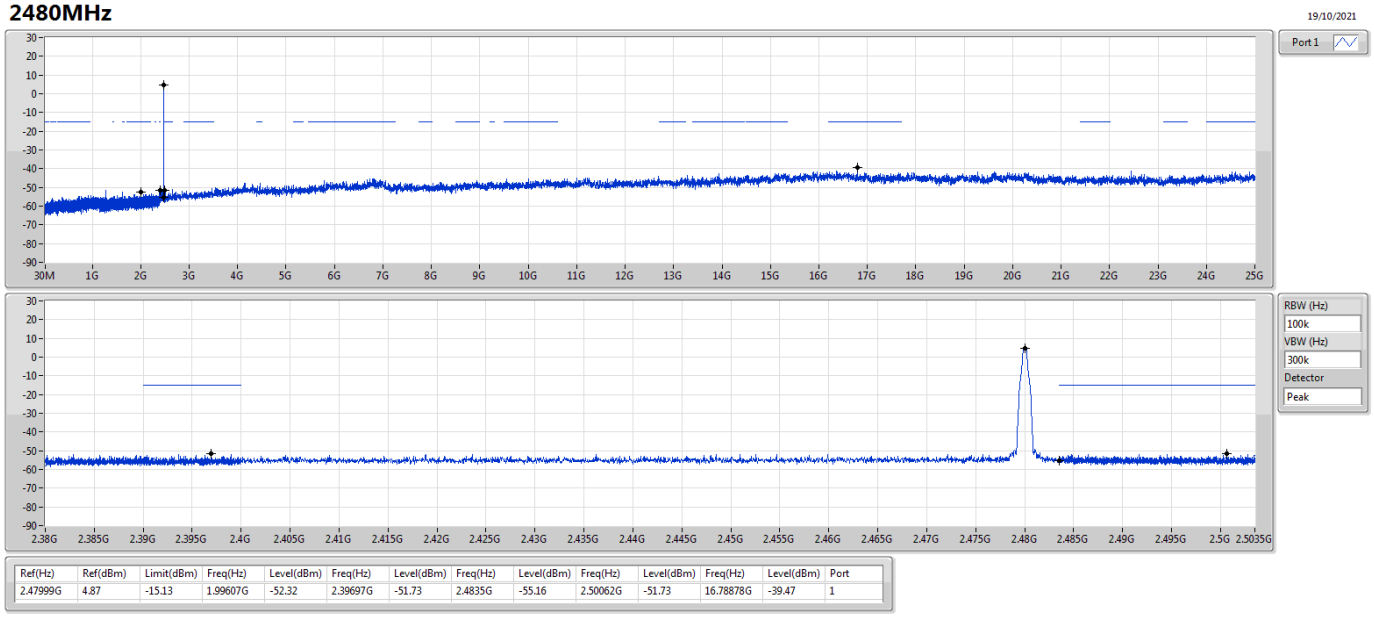
2440MHz



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	4.89	-15.11	2.11739G	-52.53	2.39933G	-51.84	2.4G	-54.89	2.49311G	-51.96	15.3012G	-41.24	1

BT-BR(1Mbps)_Nss1_1TX(Port1) **CSENdB-FS**

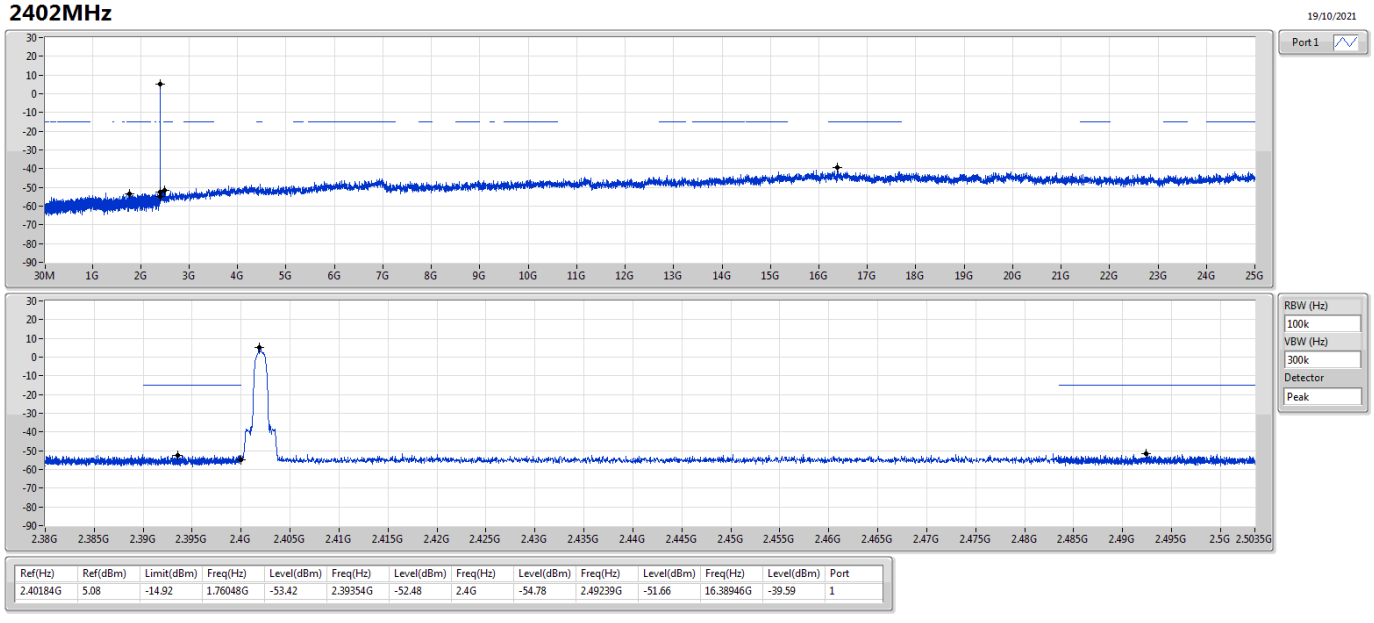
2480MHz



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
2.47999G	4.87	-15.13	1.99607G	-52.32	2.39697G	-51.73	2.4835G	-55.16	2.50062G	-51.73	16.78878G	-39.47	1

BT-EDR(2Mbps)_Nss1_1TX(Port1) **CSENdB-FS**

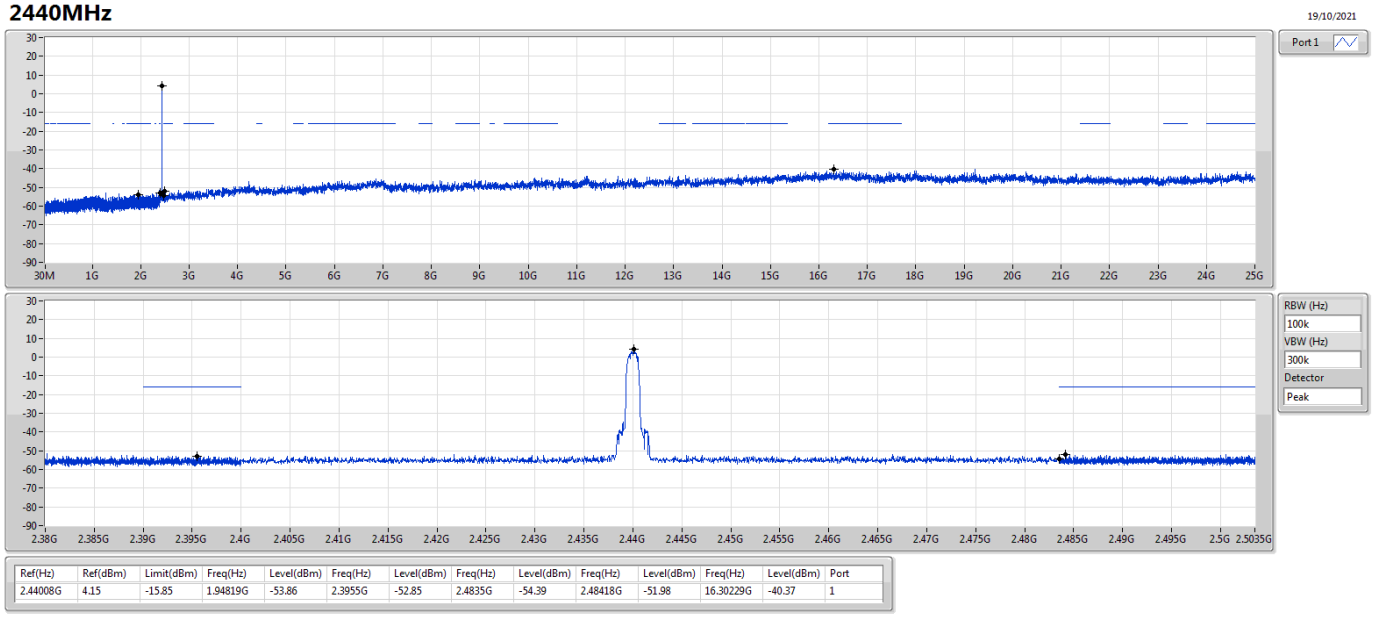
2402MHz



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
2.40184G	5.08	-14.92	1.76048G	-53.42	2.39354G	-52.48	2.4G	-54.78	2.49239G	-51.66	16.38946G	-39.59	1

BT-EDR(2Mbps)_Nss1_1TX(Port1) **CSENdB-FS**

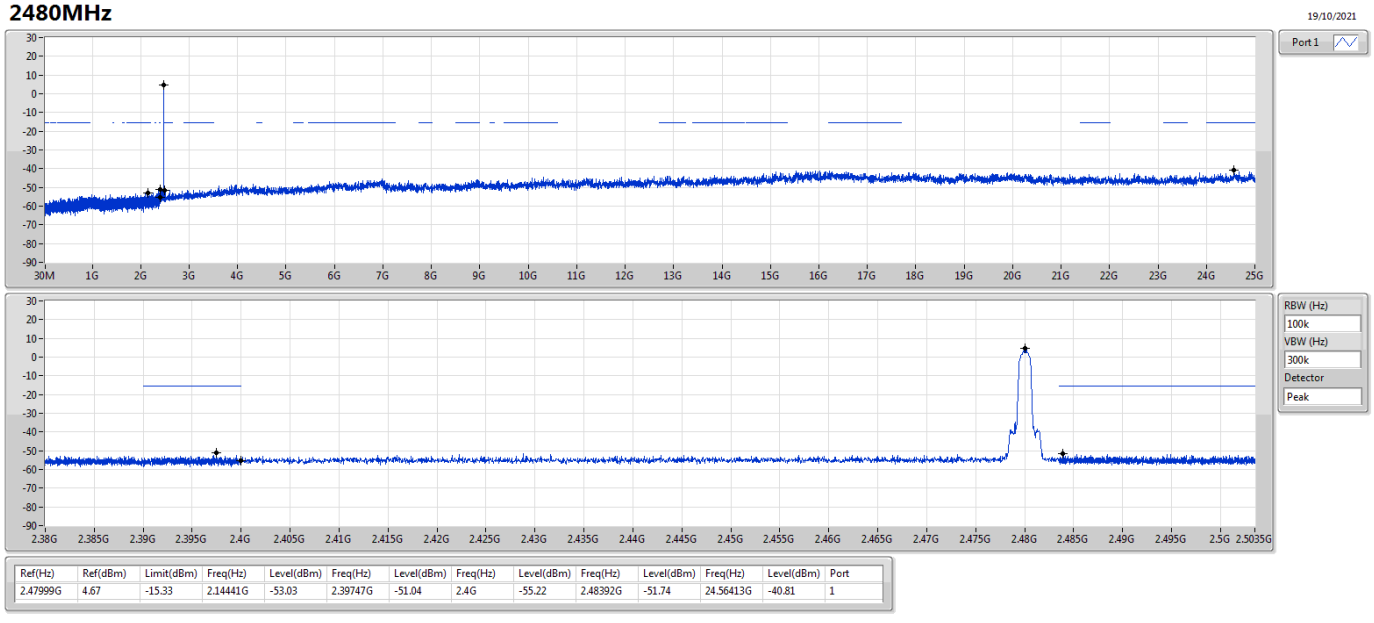
2440MHz



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
2.44008G	4.15	-15.85	1.94819G	-53.86	2.3955G	-52.85	2.4835G	-54.39	2.48418G	-51.98	16.30229G	-40.37	1

BT-EDR(2Mbps)_Nss1_1TX(Port1) **CSENdB-FS**

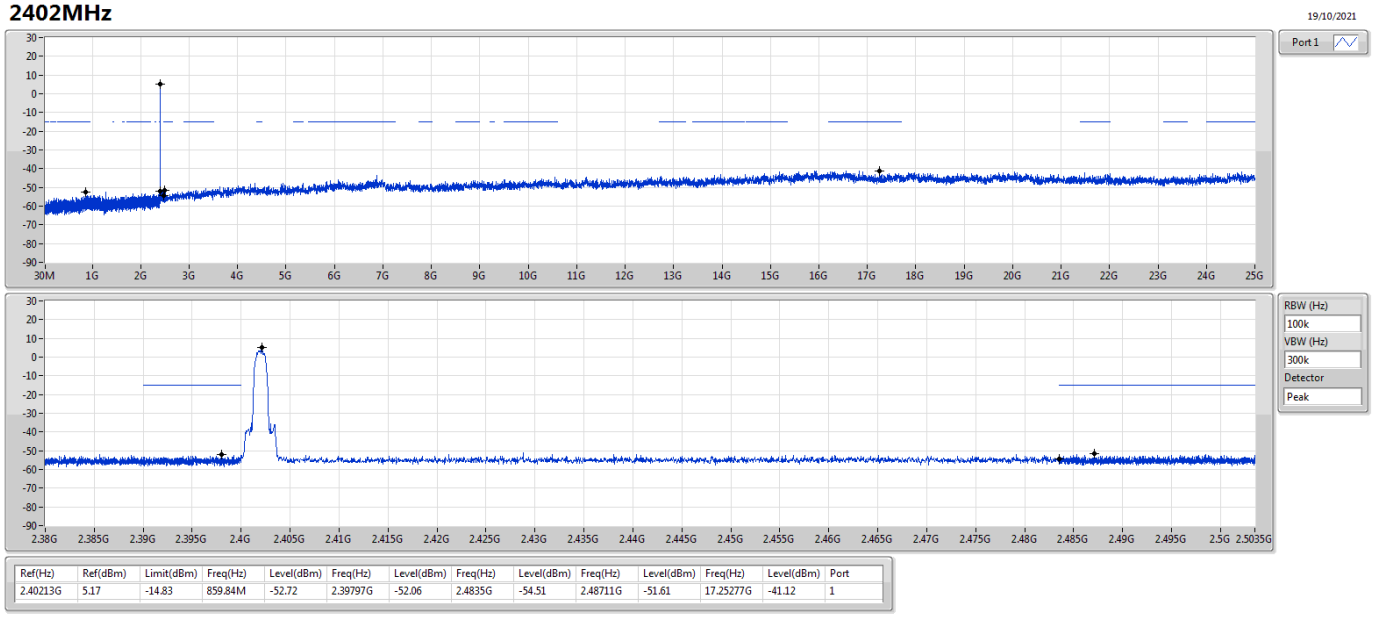
2480MHz



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
2.47999G	4.67	-15.33	2.14441G	-53.03	2.39747G	-51.04	2.4G	-55.22	2.48392G	-51.74	24.56413G	-40.81	1

BT-EDR(3Mbps)_Nss1_1TX(Port1) **CSENdB-FS**

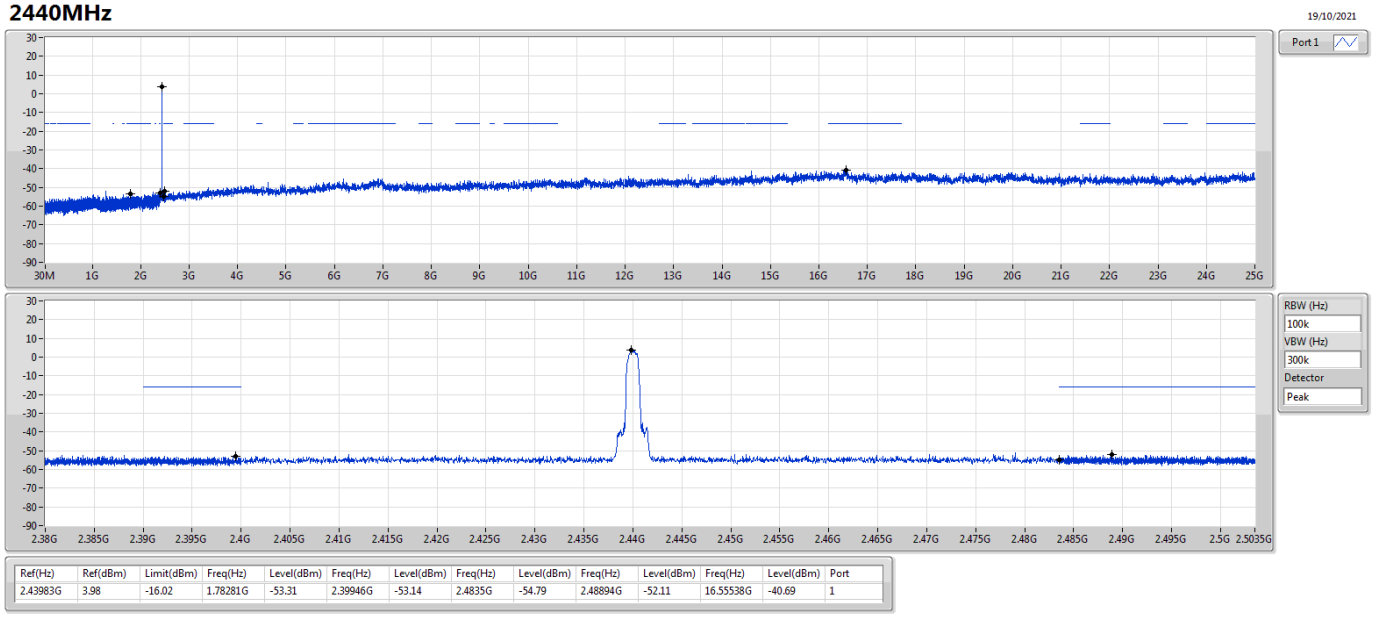
2402MHz



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	5.17	-14.83	859.84M	-52.72	2.39797G	-52.06	2.4835G	-54.51	2.48711G	-51.61	17.25277G	-41.12	1

BT-EDR(3Mbps)_Nss1_1TX(Port1) **CSENdB-FS**

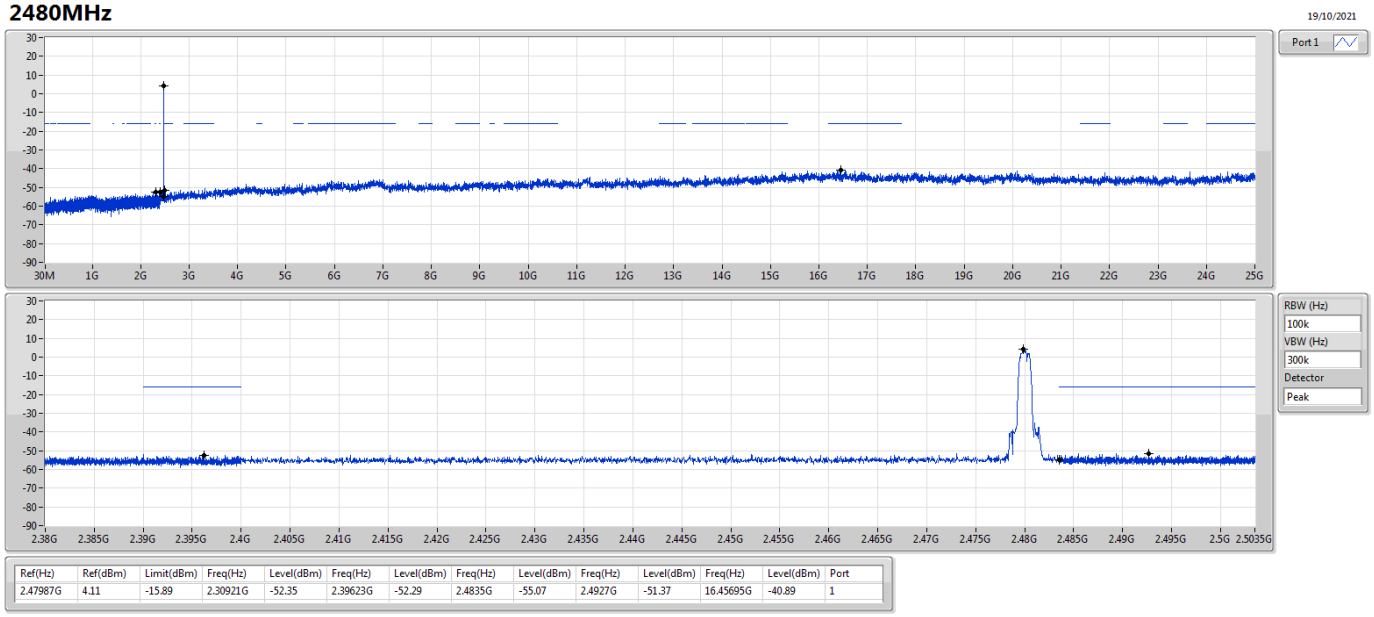
2440MHz



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	3.98	-16.02	1.78281G	-53.31	2.39946G	-53.14	2.4835G	-54.79	2.48894G	-52.11	16.55538G	-40.69	1

BT-EDR(3Mbps)_Nss1_1TX(Port1) **CSENdB-FS**

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	4.11	-15.89	2.30921G	-52.35	2.39623G	-52.29	2.4835G	-55.07	2.4927G	-51.37	16.45695G	-40.89	1

Summary

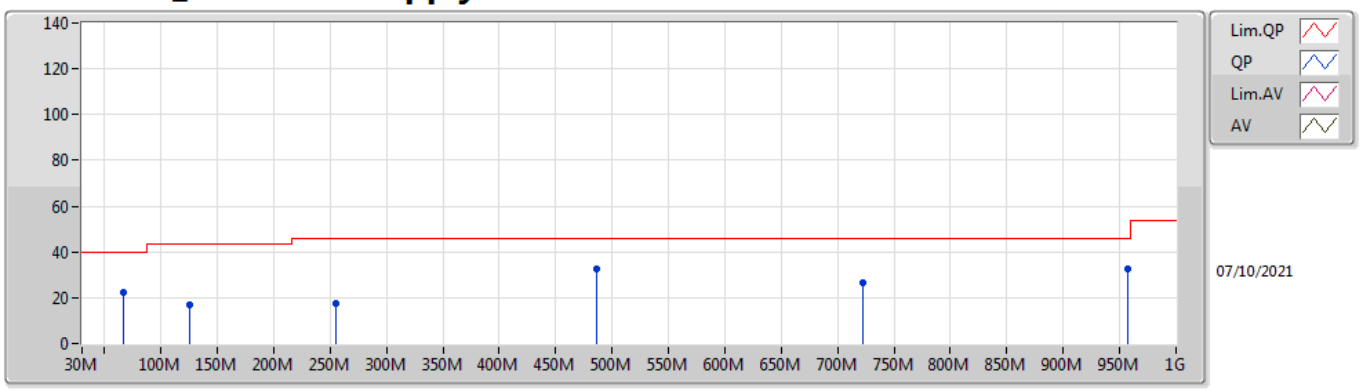
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)_1TX(Port1)	Pass	PK	957.32M	33.92	46.00	-12.08	3	Horizontal	360	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	66.86M	22.05	40.00	-17.95	3	Vertical	0	1.00	-
2440MHz	Pass	PK	125.06M	17.12	43.50	-26.38	3	Vertical	0	1.00	-
2440MHz	Pass	PK	255.04M	17.61	46.00	-28.39	3	Vertical	0	1.00	-
2440MHz	Pass	PK	485.9M	32.66	46.00	-13.34	3	Vertical	0	1.00	-
2440MHz	Pass	PK	722.58M	26.81	46.00	-19.19	3	Vertical	0	1.00	-
2440MHz	Pass	PK	957.32M	32.59	46.00	-13.41	3	Vertical	0	1.00	-
2440MHz	Pass	PK	30M	21.50	40.00	-18.50	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	128.94M	22.20	43.50	-21.30	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	319.06M	23.74	46.00	-22.26	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	509.18M	23.35	46.00	-22.65	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	685.72M	25.71	46.00	-20.29	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	957.32M	33.92	46.00	-12.08	3	Horizontal	360	1.00	-

BT-BR(1Mbps)_1TX(Port1)

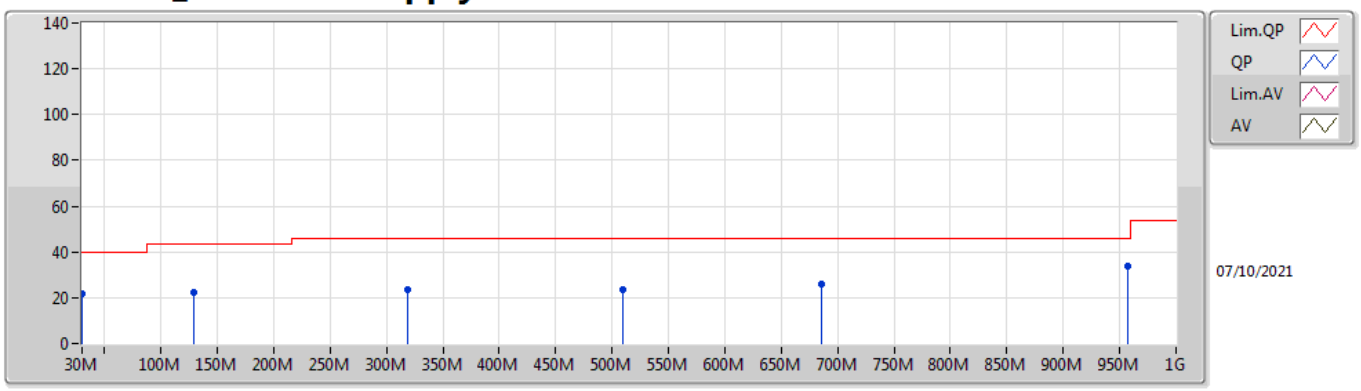
2440MHz_DC Power Supply



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)	(dB)	(dB)	(dB)
PK	66.86M	22.05	40.00	-17.95	-24.87	3	Vertical	0	1.00	-	46.92	11.31	0.83	37.01
PK	125.06M	17.12	43.50	-26.38	-18.75	3	Vertical	0	1.00	-	35.87	16.76	1.10	36.61
PK	255.04M	17.61	46.00	-28.39	-16.26	3	Vertical	0	1.00	-	33.87	18.62	1.52	36.40
PK	485.9M	32.66	46.00	-13.34	-11.76	3	Vertical	0	1.00	-	44.42	22.94	2.19	36.89
PK	722.58M	26.81	46.00	-19.19	-8.26	3	Vertical	0	1.00	-	35.07	26.44	2.73	37.43
PK	957.32M	32.59	46.00	-13.41	-4.25	3	Vertical	0	1.00	-	36.84	30.14	3.11	37.50

BT-BR(1Mbps)_1TX(Port1)

2440MHz_DC Power Supply



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)	(dB)	(dB)	(dB)
PK	30M	21.50	40.00	-18.50	-12.86	3	Horizontal	360	1.00	-	34.36	23.73	0.56	37.15
PK	128.94M	22.20	43.50	-21.30	-18.59	3	Horizontal	360	1.00	-	40.79	16.85	1.12	36.56
PK	319.06M	23.74	46.00	-22.26	-16.17	3	Horizontal	360	1.00	-	39.91	18.59	1.71	36.47
PK	509.18M	23.35	46.00	-22.65	-11.60	3	Horizontal	360	1.00	-	34.95	23.15	2.26	37.01
PK	685.72M	25.71	46.00	-20.29	-8.92	3	Horizontal	360	1.00	-	34.63	25.70	2.66	37.28
PK	957.32M	33.92	46.00	-12.08	-4.25	3	Horizontal	360	1.00	-	38.17	30.14	3.11	37.50

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)_1TX(Port1)	Pass	PK	2.495G	58.04	74.00	-15.96	3	Horizontal	320	1.47	-
BT-EDR(3Mbps)_1TX(Port1)	Pass	PK	2.3408G	57.64	74.00	-16.36	3	Horizontal	322	2.30	-

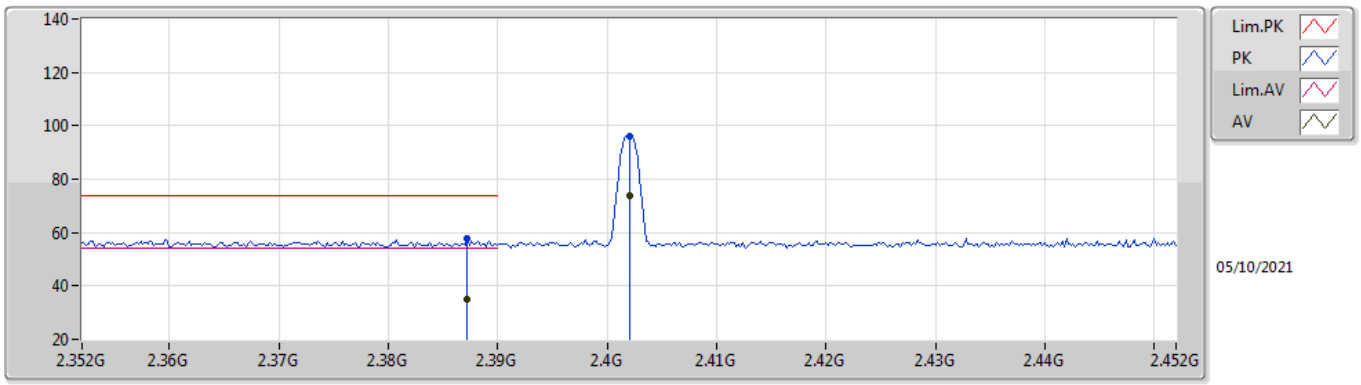
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3872G	35.10	54.00	-18.90	3	Vertical	189	1.50	-
2402MHz	Pass	AV	2.402G	73.69	Inf	-Inf	3	Vertical	189	1.50	-
2402MHz	Pass	PK	2.3872G	57.60	74.00	-16.40	3	Vertical	189	1.50	-
2402MHz	Pass	PK	2.402G	96.19	Inf	-Inf	3	Vertical	189	1.50	-
2402MHz	Pass	AV	2.3898G	34.67	54.00	-19.33	3	Horizontal	321	1.60	-
2402MHz	Pass	AV	2.402G	74.75	Inf	-Inf	3	Horizontal	321	1.50	-
2402MHz	Pass	PK	2.3898G	57.17	74.00	-16.83	3	Horizontal	321	1.60	-
2402MHz	Pass	PK	2.402G	97.25	Inf	-Inf	3	Horizontal	321	1.60	-
2402MHz	Pass	AV	4.80162G	24.86	54.00	-29.14	3	Vertical	82	1.50	-
2402MHz	Pass	PK	4.80162G	47.36	74.00	-26.64	3	Vertical	82	1.50	-
2402MHz	Pass	AV	4.80207G	23.73	54.00	-30.27	3	Horizontal	305	1.06	-
2402MHz	Pass	PK	4.80207G	46.23	74.00	-27.77	3	Horizontal	305	1.06	-
2440MHz	Pass	AV	2.3492G	34.84	54.00	-19.16	3	Vertical	186	1.50	-
2440MHz	Pass	AV	2.44G	73.01	Inf	-Inf	3	Vertical	186	1.50	-
2440MHz	Pass	AV	2.4984G	34.37	54.00	-19.63	3	Vertical	186	1.50	-
2440MHz	Pass	PK	2.3492G	57.34	74.00	-16.66	3	Vertical	186	1.50	-
2440MHz	Pass	PK	2.44G	95.51	Inf	-Inf	3	Vertical	186	1.50	-
2440MHz	Pass	PK	2.4984G	56.87	74.00	-17.13	3	Vertical	186	1.50	-
2440MHz	Pass	AV	2.3496G	34.66	54.00	-19.34	3	Horizontal	322	2.30	-
2440MHz	Pass	AV	2.44G	75.50	Inf	-Inf	3	Horizontal	322	2.30	-
2440MHz	Pass	PK	2.3496G	57.16	74.00	-16.84	3	Horizontal	322	2.30	-
2440MHz	Pass	PK	2.44G	98.00	Inf	-Inf	3	Horizontal	322	2.30	-
2440MHz	Pass	PK	2.4852G	57.06	74.00	-16.94	3	Horizontal	322	2.30	-
2440MHz	Pass	AV	4.88019G	22.49	54.00	-31.51	3	Vertical	304	2.38	-
2440MHz	Pass	PK	4.88019G	44.99	74.00	-29.01	3	Vertical	304	2.38	-
2440MHz	Pass	AV	4.87975G	21.22	54.00	-32.78	3	Horizontal	30	1.00	-
2440MHz	Pass	PK	4.87975G	44.44	74.00	-29.56	3	Horizontal	30	1.00	-
2480MHz	Pass	AV	2.48G	73.77	Inf	-Inf	3	Vertical	185	1.47	-
2480MHz	Pass	AV	2.4838G	35.09	54.00	-18.91	3	Vertical	185	1.47	-
2480MHz	Pass	PK	2.48G	96.27	Inf	-Inf	3	Vertical	185	1.47	-
2480MHz	Pass	PK	2.4838G	57.59	74.00	-16.41	3	Vertical	185	1.47	-
2480MHz	Pass	AV	2.48G	76.37	Inf	-Inf	3	Horizontal	320	1.47	-
2480MHz	Pass	AV	2.495G	35.54	54.00	-18.46	3	Horizontal	320	1.47	-
2480MHz	Pass	PK	2.48G	98.87	Inf	-Inf	3	Horizontal	320	1.47	-
2480MHz	Pass	PK	2.495G	58.04	74.00	-15.96	3	Horizontal	320	1.47	-
2480MHz	Pass	PK	4.95961G	44.81	74.00	-29.19	3	Vertical	246	2.00	-
2480MHz	Pass	AV	4.95961G	22.31	54.00	-31.69	3	Vertical	246	2.00	-
2480MHz	Pass	AV	4.95919G	22.42	54.00	-31.58	3	Horizontal	306	2.72	-
2480MHz	Pass	PK	4.95919G	44.92	74.00	-29.08	3	Horizontal	306	2.72	-
BT-EDR(3Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3538G	34.92	54.00	-19.08	3	Vertical	185	1.50	-
2402MHz	Pass	AV	2.4018G	75.60	Inf	-Inf	3	Vertical	185	1.50	-
2402MHz	Pass	PK	2.3538G	57.42	74.00	-16.58	3	Vertical	185	1.50	-
2402MHz	Pass	PK	2.4018G	98.10	Inf	-Inf	3	Vertical	185	1.50	-
2402MHz	Pass	AV	2.3882G	34.82	54.00	-19.18	3	Horizontal	321	1.58	-
2402MHz	Pass	AV	2.402G	76.22	Inf	-Inf	3	Horizontal	321	1.58	-
2402MHz	Pass	PK	2.3882G	57.32	74.00	-16.68	3	Horizontal	321	1.58	-
2402MHz	Pass	PK	2.402G	98.72	Inf	-Inf	3	Horizontal	321	1.58	-
2402MHz	Pass	AV	4.80349G	23.21	54.00	-30.79	3	Vertical	239	1.59	-
2402MHz	Pass	PK	4.80349G	45.71	74.00	-28.29	3	Vertical	239	1.59	-
2402MHz	Pass	AV	4.80336G	23.42	54.00	-30.58	3	Horizontal	286	1.00	-
2402MHz	Pass	PK	4.80336G	45.92	74.00	-28.08	3	Horizontal	286	1.00	-
2440MHz	Pass	AV	2.3844G	34.89	54.00	-19.11	3	Vertical	187	1.50	-
2440MHz	Pass	AV	2.44G	73.96	Inf	-Inf	3	Vertical	187	1.50	-
2440MHz	Pass	AV	2.4932G	34.35	54.00	-19.65	3	Vertical	187	1.50	-
2440MHz	Pass	PK	2.3844G	57.39	74.00	-16.61	3	Vertical	187	1.50	-
2440MHz	Pass	PK	2.44G	96.46	Inf	-Inf	3	Vertical	187	1.50	-
2440MHz	Pass	PK	2.4932G	56.85	74.00	-17.15	3	Vertical	187	1.50	-
2440MHz	Pass	AV	2.3408G	35.14	54.00	-18.86	3	Horizontal	322	2.30	-
2440MHz	Pass	AV	2.44G	76.97	Inf	-Inf	3	Horizontal	322	2.30	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	2.4924G	34.63	54.00	-19.37	3	Horizontal	322	2.30	-
2440MHz	Pass	PK	2.3408G	57.64	74.00	-16.36	3	Horizontal	322	2.30	-
2440MHz	Pass	PK	2.44G	99.47	Inf	-Inf	3	Horizontal	322	2.30	-
2440MHz	Pass	PK	2.4924G	57.13	74.00	-16.87	3	Horizontal	322	2.30	-
2440MHz	Pass	AV	4.87986G	22.16	54.00	-31.84	3	Vertical	113	1.48	-
2440MHz	Pass	PK	4.87986G	44.66	74.00	-29.34	3	Vertical	113	1.48	-
2440MHz	Pass	AV	4.87981G	22.37	54.00	-31.63	3	Horizontal	28	1.50	-
2440MHz	Pass	PK	4.87981G	44.87	74.00	-29.13	3	Horizontal	28	1.50	-
2480MHz	Pass	AV	2.48G	75.05	Inf	-Inf	3	Vertical	184	1.47	-
2480MHz	Pass	AV	2.499G	34.71	54.00	-19.29	3	Vertical	184	1.47	-
2480MHz	Pass	PK	2.48G	97.55	Inf	-Inf	3	Vertical	184	1.47	-
2480MHz	Pass	PK	2.499G	57.21	74.00	-16.79	3	Vertical	184	1.47	-
2480MHz	Pass	AV	2.48G	77.40	Inf	-Inf	3	Horizontal	318	1.50	-
2480MHz	Pass	AV	2.4984G	34.70	54.00	-19.30	3	Horizontal	318	1.50	-
2480MHz	Pass	PK	2.48G	99.90	Inf	-Inf	3	Horizontal	318	1.50	-
2480MHz	Pass	PK	2.4984G	57.20	74.00	-16.80	3	Horizontal	318	1.50	-
2480MHz	Pass	AV	4.95943G	23.25	54.00	-30.75	3	Vertical	106	1.50	-
2480MHz	Pass	PK	4.95943G	45.75	74.00	-28.25	3	Vertical	106	1.50	-
2480MHz	Pass	AV	4.96003G	24.10	54.00	-29.90	3	Horizontal	29	1.00	-
2480MHz	Pass	PK	4.96003G	46.60	74.00	-27.40	3	Horizontal	29	1.00	-

BT-BR(1Mbps)_1TX(Port1)

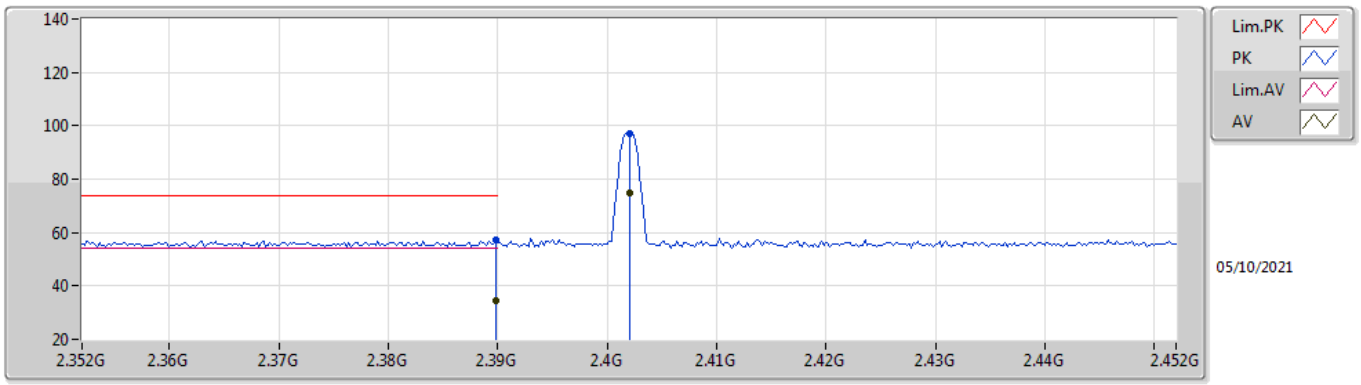
2402MHz_TX



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)	(dB)	(dB)	(dB)
AV	2.3872G	35.10	54.00	-18.90	32.22	3	Vertical	189	1.50	-	2.88	27.65	4.57	-
AV	2.402G	73.69	Inf	-Inf	32.18	3	Vertical	189	1.50	-	41.51	27.60	4.58	-
PK	2.3872G	57.60	74.00	-16.40	32.22	3	Vertical	189	1.50	-	25.38	27.65	4.57	-
PK	2.402G	96.19	Inf	-Inf	32.18	3	Vertical	189	1.50	-	64.01	27.60	4.58	-

BT-BR(1Mbps)_1TX(Port1)

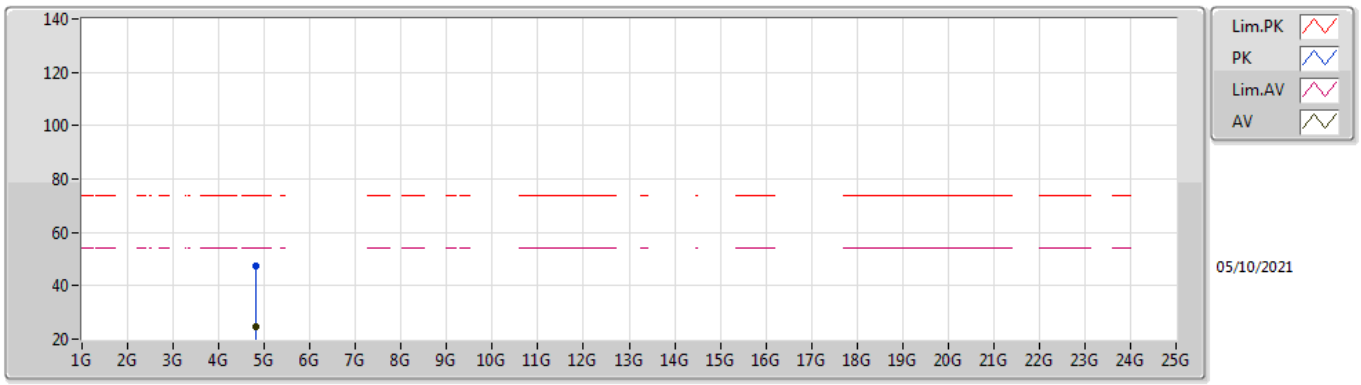
2402MHz_TX



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)	(dB)	(dB)	(dB)
AV	2.3898G	34.67	54.00	-19.33	32.21	3	Horizontal	321	1.60	-	2.46	27.64	4.57	-
AV	2.402G	74.75	Inf	-Inf	32.18	3	Horizontal	321	1.50	-	42.57	27.60	4.58	-
PK	2.3898G	57.17	74.00	-16.83	32.21	3	Horizontal	321	1.60	-	24.96	27.64	4.57	-
PK	2.402G	97.25	Inf	-Inf	32.18	3	Horizontal	321	1.60	-	65.07	27.60	4.58	-

BT-BR(1Mbps)_1TX(Port1)

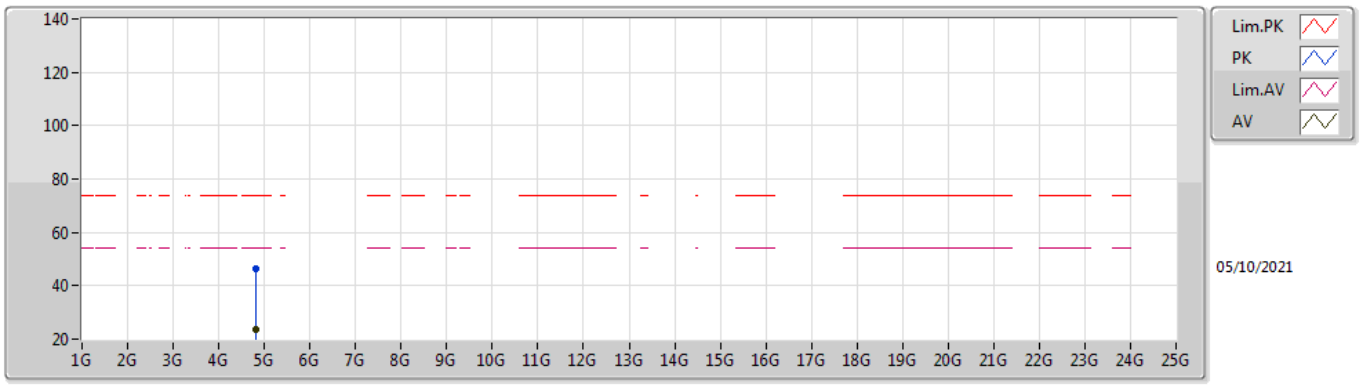
2402MHz_TX



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)	(dB)	(dB)	(dB)
AV	4.80162G	24.86	54.00	-29.14	2.95	3	Vertical	82	1.50	-	21.91	31.10	6.66	34.81
PK	4.80162G	47.36	74.00	-26.64	2.95	3	Vertical	82	1.50	-	44.41	31.10	6.66	34.81

BT-BR(1Mbps)_1TX(Port1)

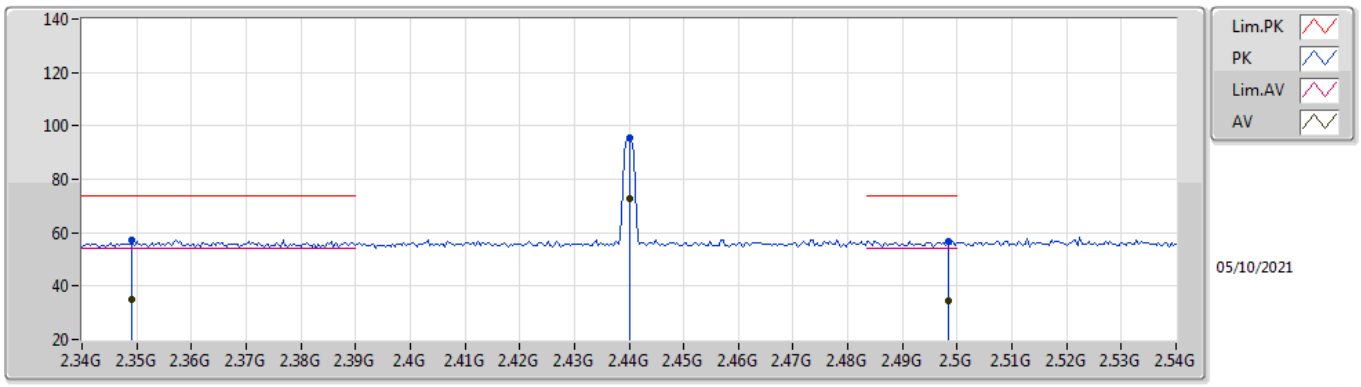
2402MHz_TX



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)	(dB)	(dB)	(dB)
AV	4.80207G	23.73	54.00	-30.27	2.95	3	Horizontal	305	1.06	-	20.78	31.10	6.66	34.81
PK	4.80207G	46.23	74.00	-27.77	2.95	3	Horizontal	305	1.06	-	43.28	31.10	6.66	34.81

BT-BR(1Mbps)_1TX(Port1)

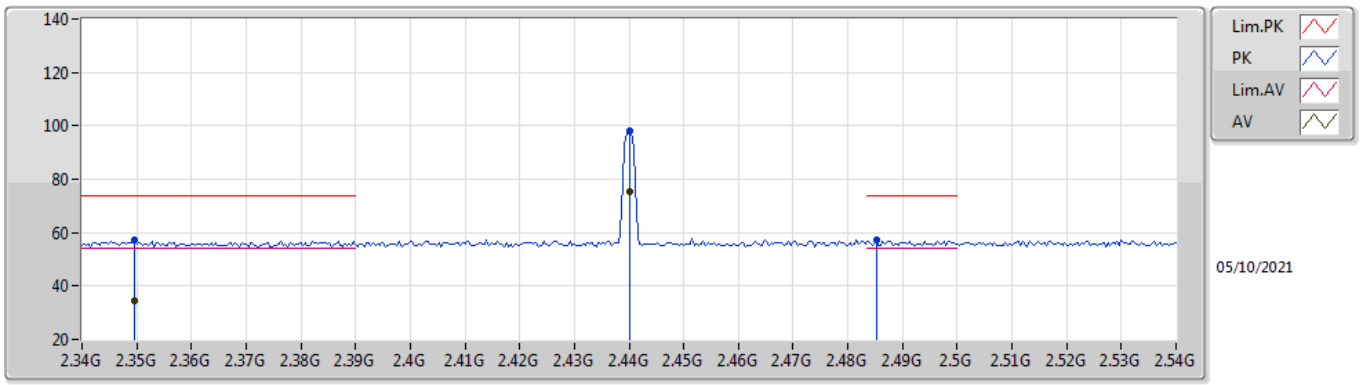
2440MHz_TX



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)	(dB)	(dB)	(dB)
AV	2.3492G	34.84	54.00	-19.16	32.33	3	Vertical	186	1.50	-	2.51	27.80	4.53	-
AV	2.44G	73.01	Inf	-Inf	32.12	3	Vertical	186	1.50	-	40.89	27.52	4.60	-
AV	2.4984G	34.37	54.00	-19.63	32.12	3	Vertical	186	1.50	-	2.25	27.50	4.62	-
PK	2.3492G	57.34	74.00	-16.66	32.33	3	Vertical	186	1.50	-	25.01	27.80	4.53	-
PK	2.44G	95.51	Inf	-Inf	32.12	3	Vertical	186	1.50	-	63.39	27.52	4.60	-
PK	2.4984G	56.87	74.00	-17.13	32.12	3	Vertical	186	1.50	-	24.75	27.50	4.62	-

BT-BR(1Mbps)_1TX(Port1)

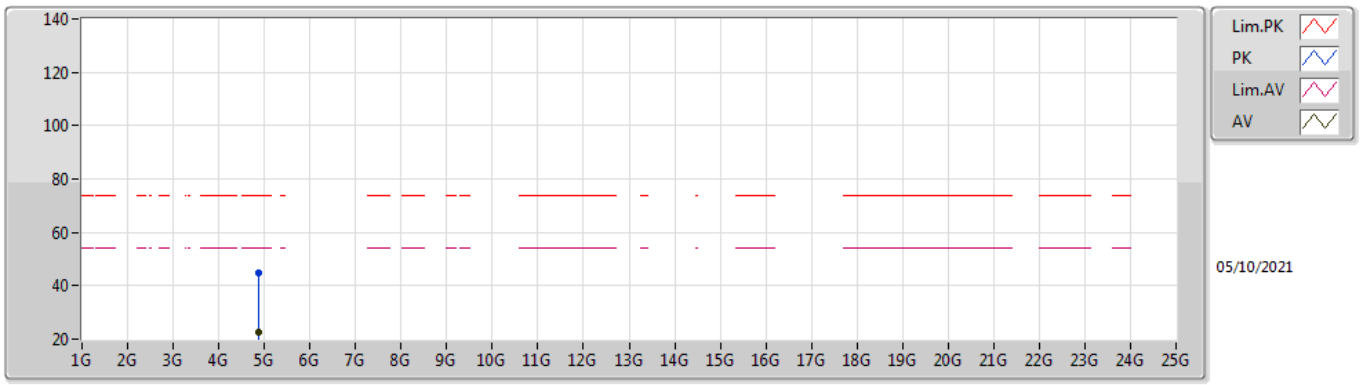
2440MHz_TX



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)	(dB)	(dB)	(dB)
AV	2.3496G	34.66	54.00	-19.34	32.33	3	Horizontal	322	2.30	-	2.33	27.80	4.53	-
AV	2.44G	75.50	Inf	-Inf	32.12	3	Horizontal	322	2.30	-	43.38	27.52	4.60	-
PK	2.3496G	57.16	74.00	-16.84	32.33	3	Horizontal	322	2.30	-	24.83	27.80	4.53	-
PK	2.44G	98.00	Inf	-Inf	32.12	3	Horizontal	322	2.30	-	65.88	27.52	4.60	-
PK	2.4852G	57.06	74.00	-16.94	32.11	3	Horizontal	322	2.30	-	24.95	27.50	4.61	-

BT-BR(1Mbps)_1TX(Port1)

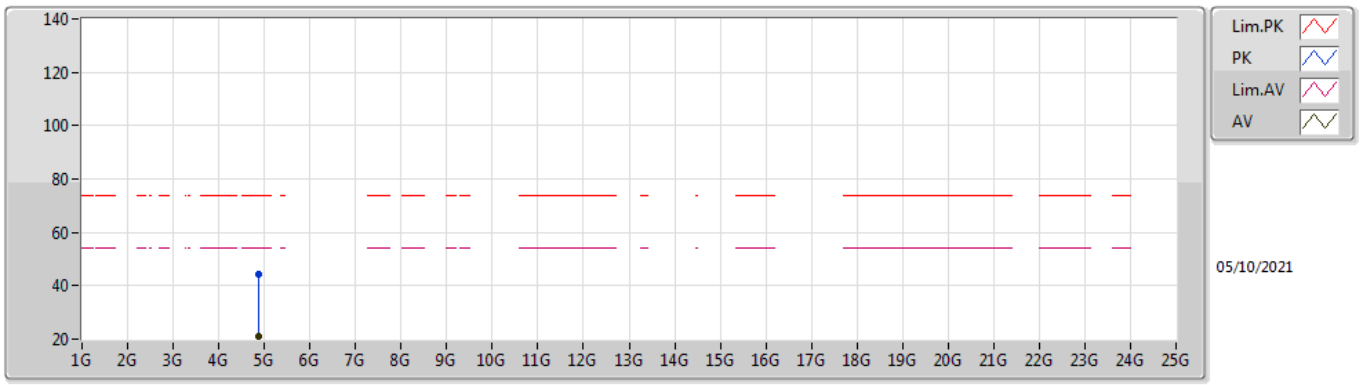
2440MHz_TX



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)	(dB)	(dB)	(dB)
AV	4.88019G	22.49	54.00	-31.51	3.03	3	Vertical	304	2.38	-	19.46	31.10	6.72	34.79
PK	4.88019G	44.99	74.00	-29.01	3.03	3	Vertical	304	2.38	-	41.96	31.10	6.72	34.79

BT-BR(1Mbps)_1TX(Port1)

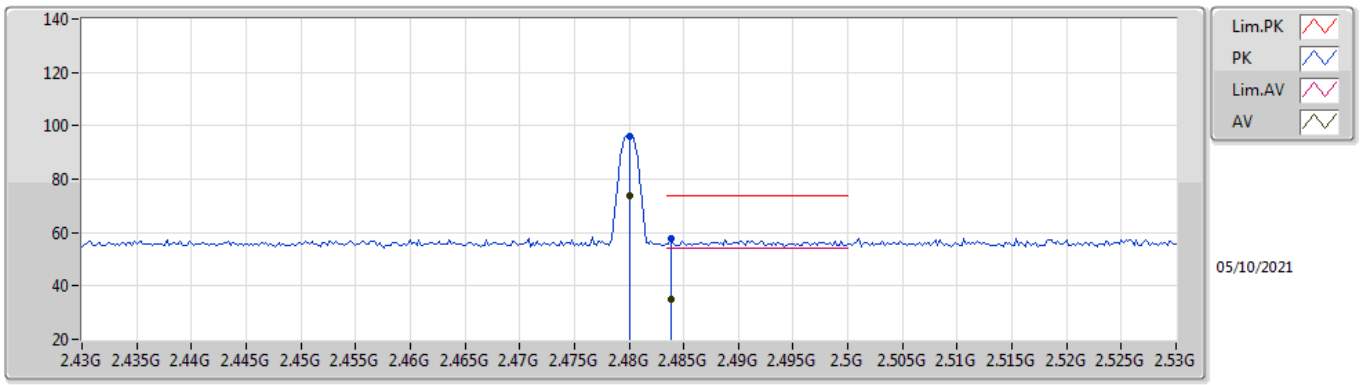
2440MHz_TX



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)	(dB)	(dB)	(dB)
AV	4.87975G	21.22	54.00	-32.78	3.03	3	Horizontal	30	1.00	-	18.19	31.10	6.72	34.79
PK	4.87975G	44.44	74.00	-29.56	3.03	3	Horizontal	30	1.00	-	41.41	31.10	6.72	34.79

BT-BR(1Mbps)_1TX(Port1)

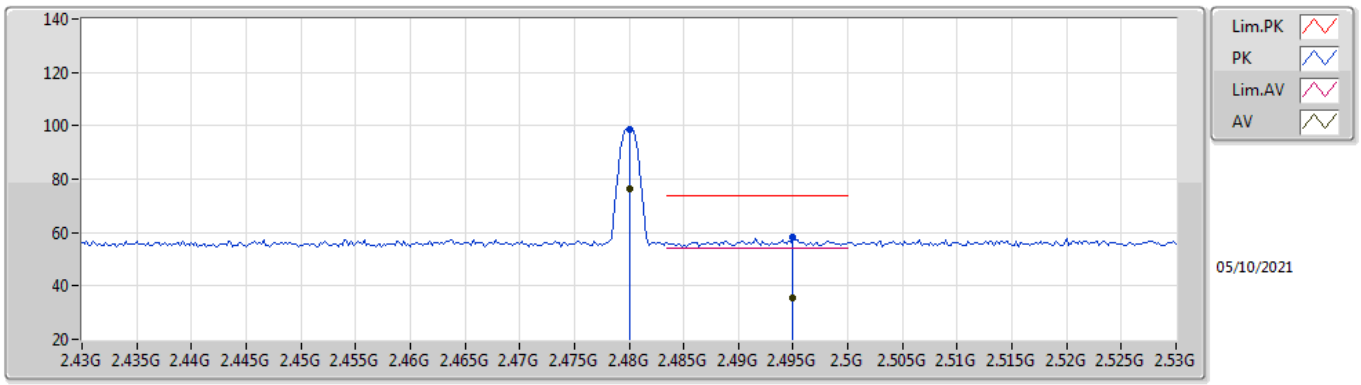
2480MHz_TX



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)	(dB)	(dB)	(dB)
AV	2.48G	73.77	Inf	-Inf	32.11	3	Vertical	185	1.47	-	41.66	27.50	4.61	-
AV	2.4838G	35.09	54.00	-18.91	32.11	3	Vertical	185	1.47	-	2.98	27.50	4.61	-
PK	2.48G	96.27	Inf	-Inf	32.11	3	Vertical	185	1.47	-	64.16	27.50	4.61	-
PK	2.4838G	57.59	74.00	-16.41	32.11	3	Vertical	185	1.47	-	25.48	27.50	4.61	-

BT-BR(1Mbps)_1TX(Port1)

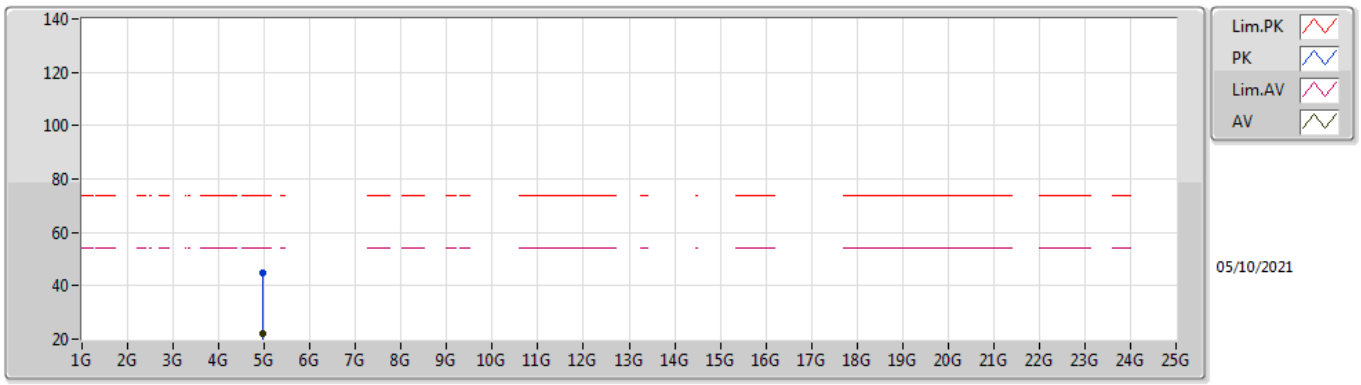
2480MHz_TX



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)	(dB)	(dB)	(dB)
AV	2.48G	76.37	Inf	-Inf	32.11	3	Horizontal	320	1.47	-	44.26	27.50	4.61	-
AV	2.495G	35.54	54.00	-18.46	32.12	3	Horizontal	320	1.47	-	3.42	27.50	4.62	-
PK	2.48G	98.87	Inf	-Inf	32.11	3	Horizontal	320	1.47	-	66.76	27.50	4.61	-
PK	2.495G	58.04	74.00	-15.96	32.12	3	Horizontal	320	1.47	-	25.92	27.50	4.62	-

BT-BR(1Mbps)_1TX(Port1)

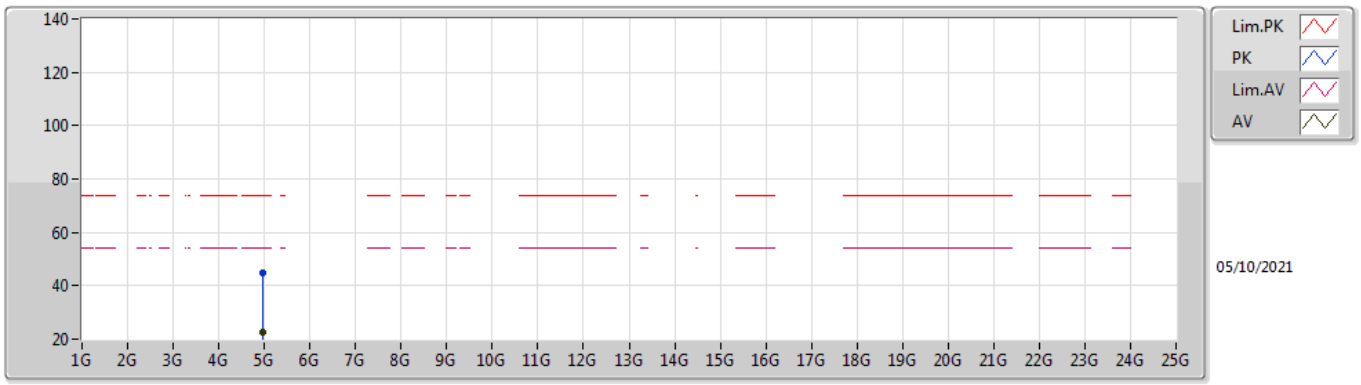
2480MHz_TX



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)	(dB)	(dB)	(dB)
PK	4.95961G	44.81	74.00	-29.19	3.35	3	Vertical	246	2.00	-	41.46	31.34	6.78	34.77
AV	4.95961G	22.31	54.00	-31.69	3.35	3	Vertical	246	2.00	-	18.96	31.34	6.78	34.77

BT-BR(1Mbps)_1TX(Port1)

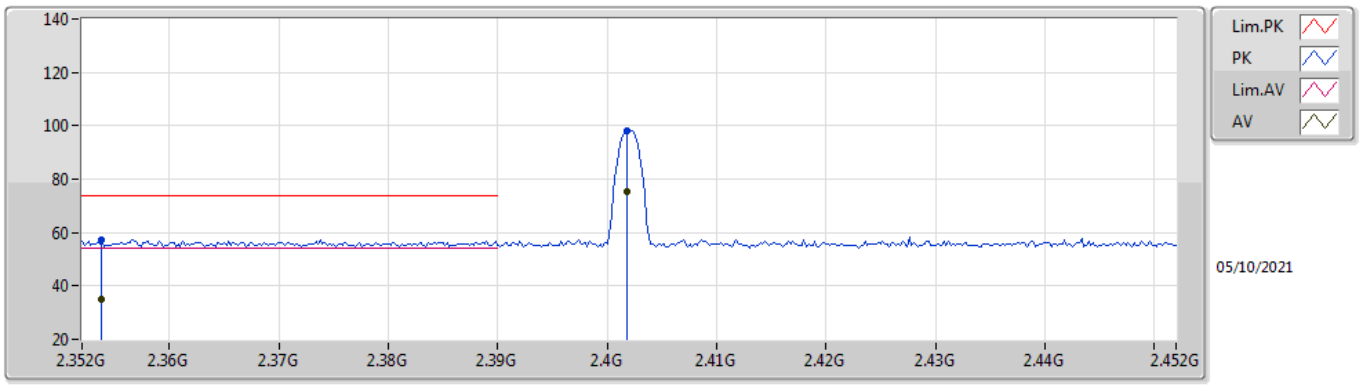
2480MHz_TX



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)	(dB)	(dB)	(dB)
AV	4.95919G	22.42	54.00	-31.58	3.35	3	Horizontal	306	2.72	-	19.07	31.34	6.78	34.77
PK	4.95919G	44.92	74.00	-29.08	3.35	3	Horizontal	306	2.72	-	41.57	31.34	6.78	34.77

BT-EDR(3Mbps)_1TX(Port1)

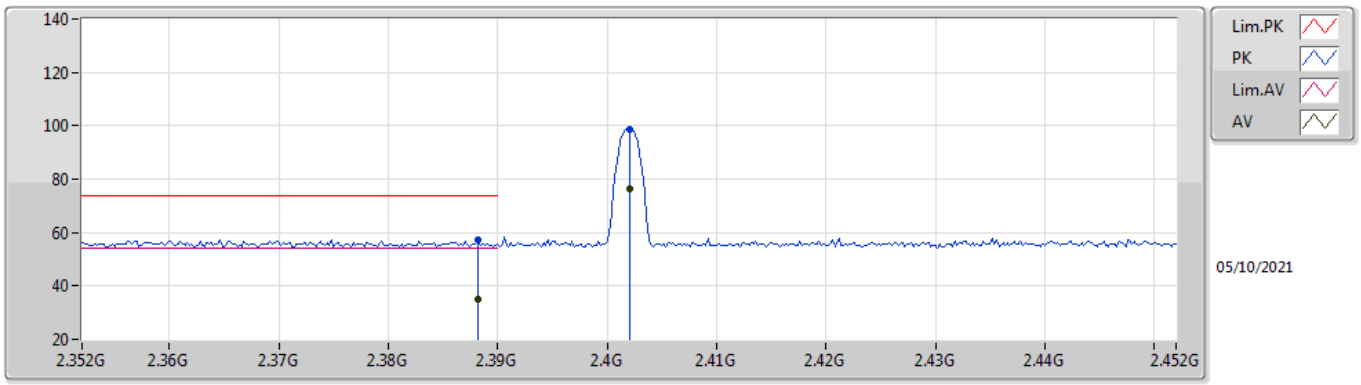
2402MHz_TX



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)	(dB)	(dB)	(dB)
AV	2.3538G	34.92	54.00	-19.08	32.32	3	Vertical	185	1.50	-	2.60	27.78	4.54	-
AV	2.4018G	75.60	Inf	-Inf	32.18	3	Vertical	185	1.50	-	43.42	27.60	4.58	-
PK	2.3538G	57.42	74.00	-16.58	32.32	3	Vertical	185	1.50	-	25.10	27.78	4.54	-
PK	2.4018G	98.10	Inf	-Inf	32.18	3	Vertical	185	1.50	-	65.92	27.60	4.58	-

BT-EDR(3Mbps)_1TX(Port1)

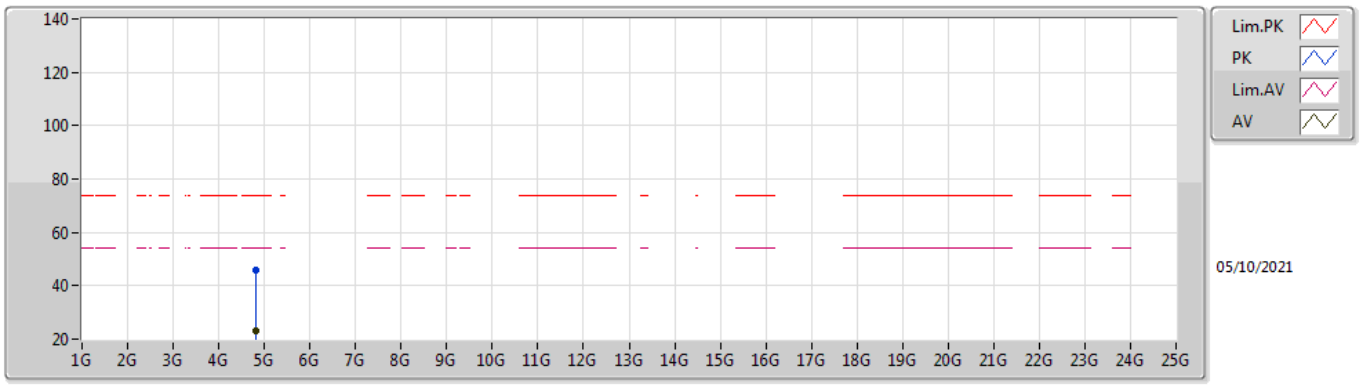
2402MHz_TX



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)	(dB)	(dB)	(dB)
AV	2.3882G	34.82	54.00	-19.18	32.22	3	Horizontal	321	1.58	-	2.60	27.65	4.57	-
AV	2.402G	76.22	Inf	-Inf	32.18	3	Horizontal	321	1.58	-	44.04	27.60	4.58	-
PK	2.3882G	57.32	74.00	-16.68	32.22	3	Horizontal	321	1.58	-	25.10	27.65	4.57	-
PK	2.402G	98.72	Inf	-Inf	32.18	3	Horizontal	321	1.58	-	66.54	27.60	4.58	-

BT-EDR(3Mbps)_1TX(Port1)

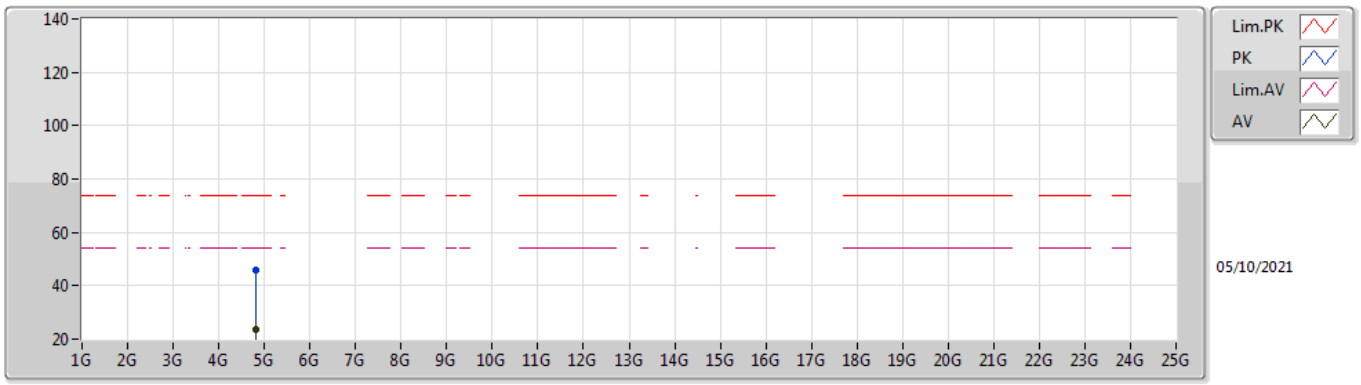
2402MHz_TX



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)	(dB)	(dB)	(dB)
AV	4.80349G	23.21	54.00	-30.79	2.95	3	Vertical	239	1.59	-	20.26	31.10	6.66	34.81
PK	4.80349G	45.71	74.00	-28.29	2.95	3	Vertical	239	1.59	-	42.76	31.10	6.66	34.81

BT-EDR(3Mbps)_1TX(Port1)

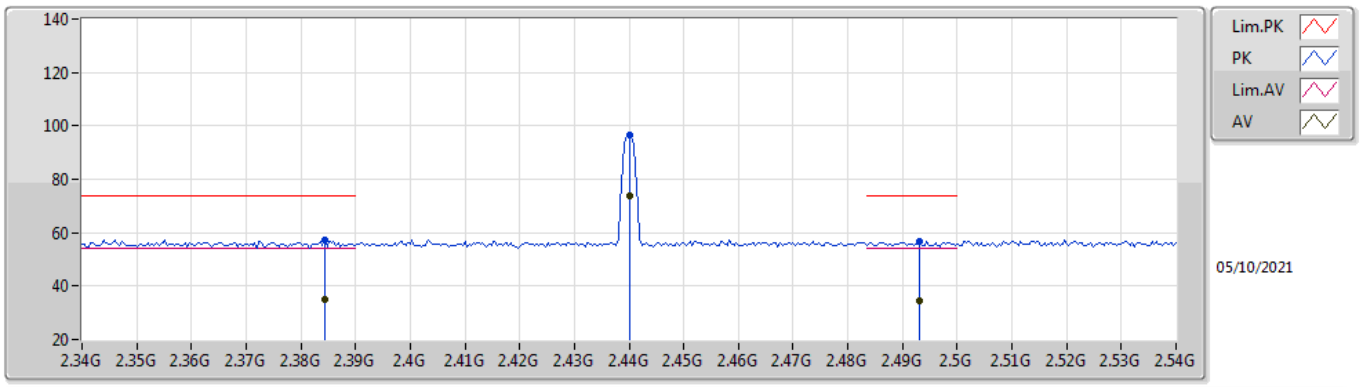
2402MHz_TX



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)	(dB)	(dB)	(dB)
AV	4.80336G	23.42	54.00	-30.58	2.95	3	Horizontal	286	1.00	-	20.47	31.10	6.66	34.81
PK	4.80336G	45.92	74.00	-28.08	2.95	3	Horizontal	286	1.00	-	42.97	31.10	6.66	34.81

BT-EDR(3Mbps)_1TX(Port1)

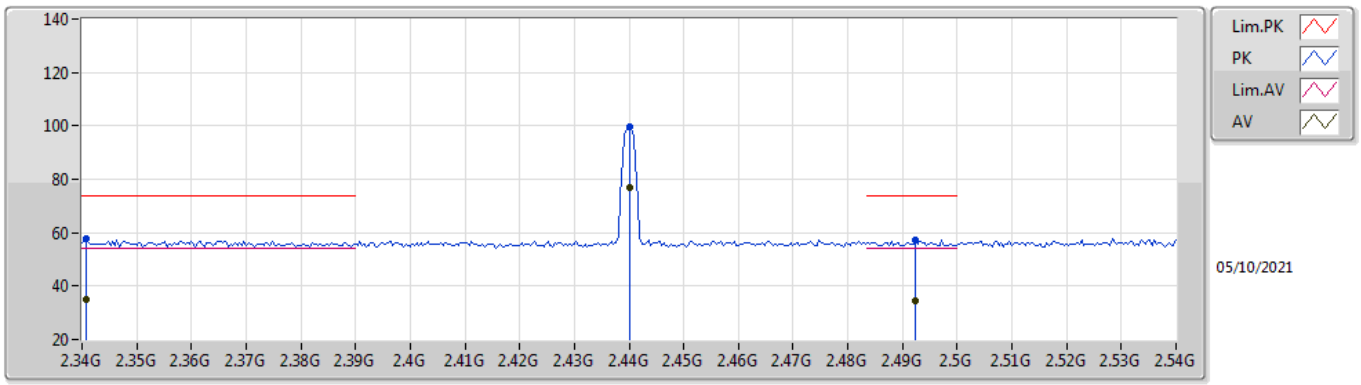
2440MHz_TX



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)	(dB)	(dB)	(dB)
AV	2.3844G	34.89	54.00	-19.11	32.23	3	Vertical	187	1.50	-	2.66	27.66	4.57	-
AV	2.44G	73.96	Inf	-Inf	32.12	3	Vertical	187	1.50	-	41.84	27.52	4.60	-
AV	2.4932G	34.35	54.00	-19.65	32.12	3	Vertical	187	1.50	-	2.23	27.50	4.62	-
PK	2.3844G	57.39	74.00	-16.61	32.23	3	Vertical	187	1.50	-	25.16	27.66	4.57	-
PK	2.44G	96.46	Inf	-Inf	32.12	3	Vertical	187	1.50	-	64.34	27.52	4.60	-
PK	2.4932G	56.85	74.00	-17.15	32.12	3	Vertical	187	1.50	-	24.73	27.50	4.62	-

BT-EDR(3Mbps)_1TX(Port1)

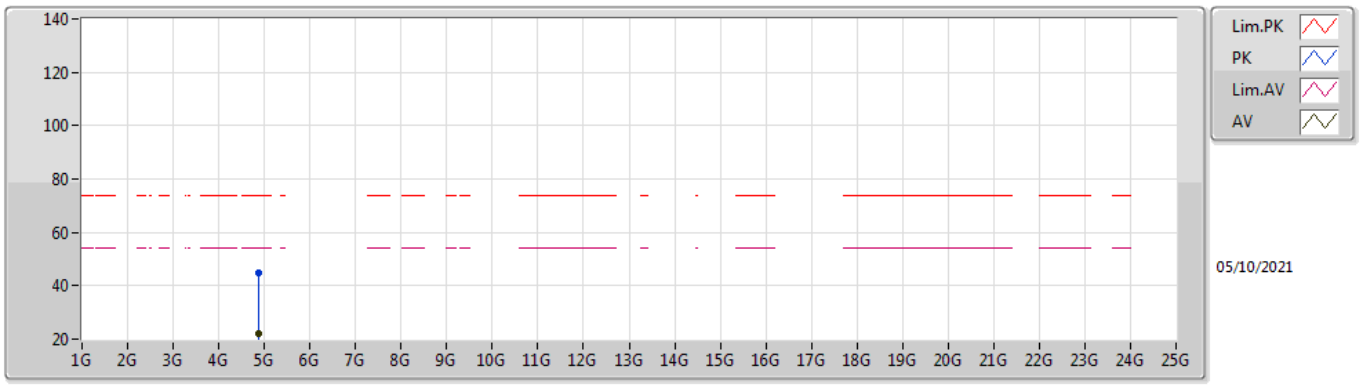
2440MHz_TX



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)	(dB)	(dB)	(dB)
AV	2.3408G	35.14	54.00	-18.86	32.32	3	Horizontal	322	2.30	-	2.82	27.80	4.52	-
AV	2.44G	76.97	Inf	-Inf	32.12	3	Horizontal	322	2.30	-	44.85	27.52	4.60	-
AV	2.4924G	34.63	54.00	-19.37	32.12	3	Horizontal	322	2.30	-	2.51	27.50	4.62	-
PK	2.3408G	57.64	74.00	-16.36	32.32	3	Horizontal	322	2.30	-	25.32	27.80	4.52	-
PK	2.44G	99.47	Inf	-Inf	32.12	3	Horizontal	322	2.30	-	67.35	27.52	4.60	-
PK	2.4924G	57.13	74.00	-16.87	32.12	3	Horizontal	322	2.30	-	25.01	27.50	4.62	-

BT-EDR(3Mbps)_1TX(Port1)

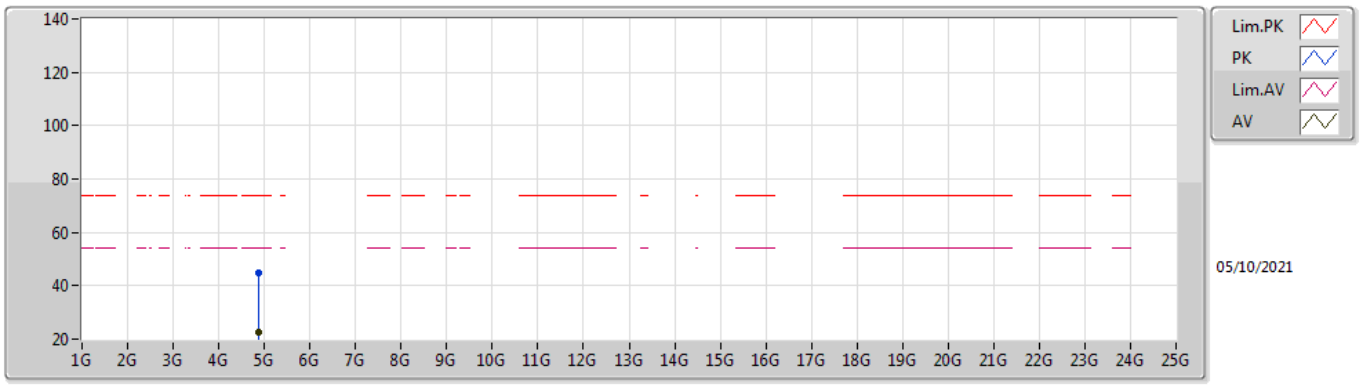
2440MHz_TX



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)	(dB)	(dB)	(dB)
AV	4.87986G	22.16	54.00	-31.84	3.03	3	Vertical	113	1.48	-	19.13	31.10	6.72	34.79
PK	4.87986G	44.66	74.00	-29.34	3.03	3	Vertical	113	1.48	-	41.63	31.10	6.72	34.79

BT-EDR(3Mbps)_1TX(Port1)

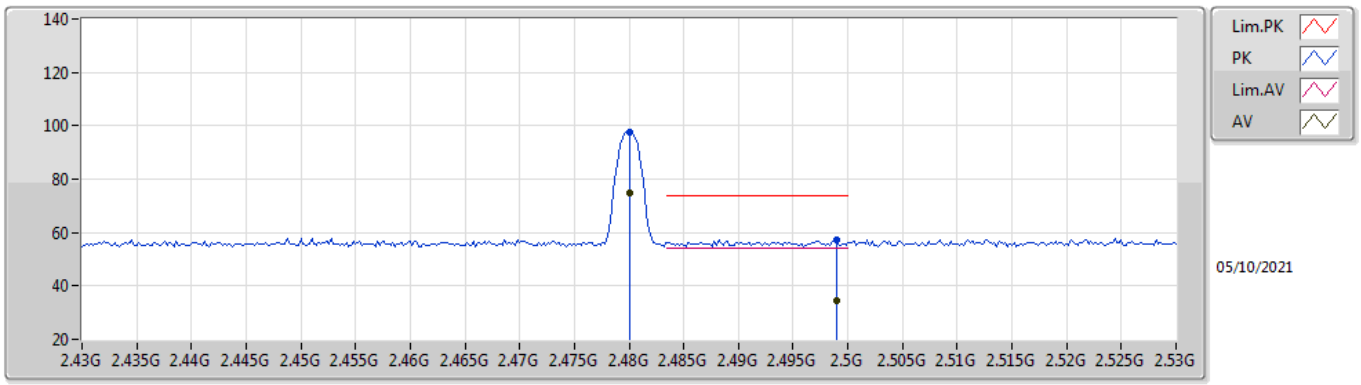
2440MHz_TX



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)	(dB)	(dB)	(dB)
AV	4.87981G	22.37	54.00	-31.63	3.03	3	Horizontal	28	1.50	-	19.34	31.10	6.72	34.79
PK	4.87981G	44.87	74.00	-29.13	3.03	3	Horizontal	28	1.50	-	41.84	31.10	6.72	34.79

BT-EDR(3Mbps)_1TX(Port1)

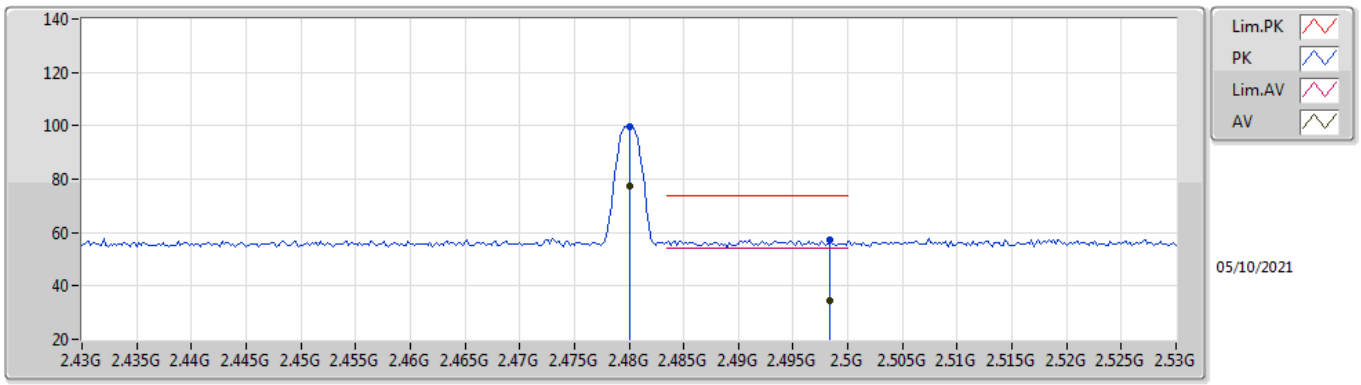
2480MHz_TX



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)	(dB)	(dB)	(dB)
AV	2.48G	75.05	Inf	-Inf	32.11	3	Vertical	184	1.47	-	42.94	27.50	4.61	-
AV	2.499G	34.71	54.00	-19.29	32.12	3	Vertical	184	1.47	-	2.59	27.50	4.62	-
PK	2.48G	97.55	Inf	-Inf	32.11	3	Vertical	184	1.47	-	65.44	27.50	4.61	-
PK	2.499G	57.21	74.00	-16.79	32.12	3	Vertical	184	1.47	-	25.09	27.50	4.62	-

BT-EDR(3Mbps)_1TX(Port1)

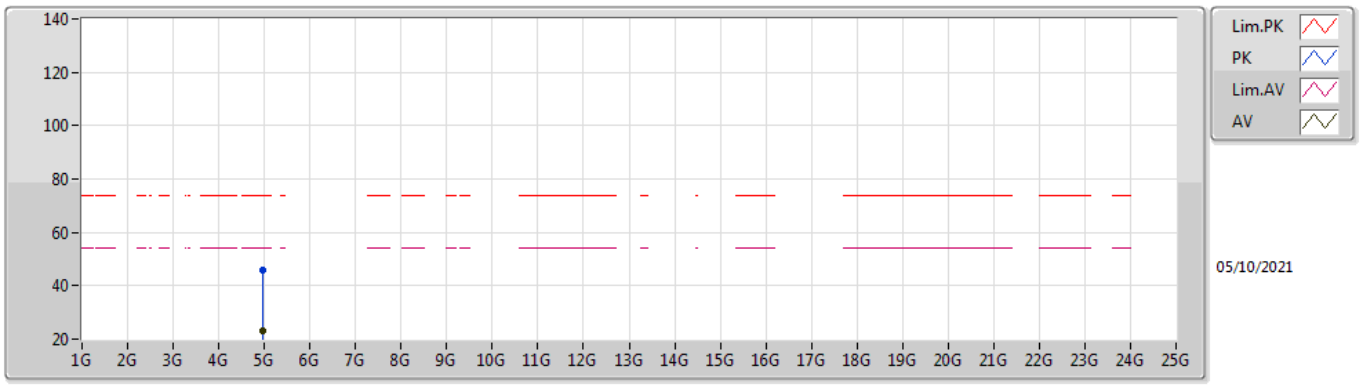
2480MHz_TX



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)	(dB)	(dB)	(dB)
AV	2.48G	77.40	Inf	-Inf	32.11	3	Horizontal	318	1.50	-	45.29	27.50	4.61	-
AV	2.4984G	34.70	54.00	-19.30	32.12	3	Horizontal	318	1.50	-	2.58	27.50	4.62	-
PK	2.48G	99.90	Inf	-Inf	32.11	3	Horizontal	318	1.50	-	67.79	27.50	4.61	-
PK	2.4984G	57.20	74.00	-16.80	32.12	3	Horizontal	318	1.50	-	25.08	27.50	4.62	-

BT-EDR(3Mbps)_1TX(Port1)

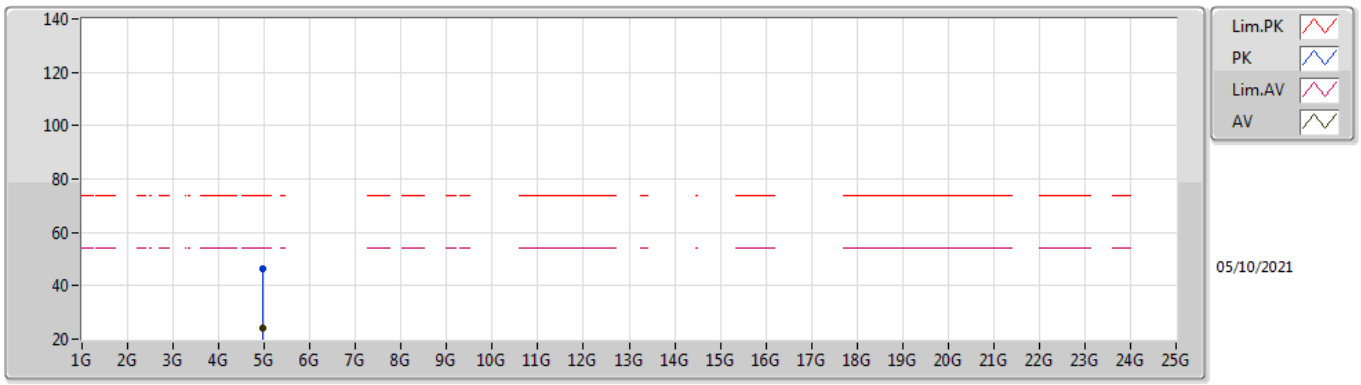
2480MHz_TX



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)	(dB)	(dB)	(dB)
AV	4.95943G	23.25	54.00	-30.75	3.35	3	Vertical	106	1.50	-	19.90	31.34	6.78	34.77
PK	4.95943G	45.75	74.00	-28.25	3.35	3	Vertical	106	1.50	-	42.40	31.34	6.78	34.77

BT-EDR(3Mbps)_1TX(Port1)

2480MHz_TX



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)	(dB)	(dB)	(dB)
AV	4.96003G	24.10	54.00	-29.90	3.35	3	Horizontal	29	1.00	-	20.75	31.34	6.78	34.77
PK	4.96003G	46.60	74.00	-27.40	3.35	3	Horizontal	29	1.00	-	43.25	31.34	6.78	34.77