

FCC Radio Test Report

FCC ID : TLZ-CU544
Equipment : IEEE 802.11 b/g/n MAC/baseband/radio and Bluetooth 5.2 IoT Module
Brand Name : AzureWave
Model Name : AW-CU544-E, AW-CU544-P
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 May 11, 2022, and testing was started from May 28, 2022 and completed on Jul. 11, 2022. 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



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: Ben Tseng
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 $\pi/4$ -DQPSK (2Mbps) and 8DPSK (3Mbps).
- ◆ Bluetooth BR/EDR uses as a system using FHSS modulation.
- ◆ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Remark
1	MAG. LAYERS SCIENTIFIC-TECHNICS CO., LTD	MSA-4008-25G C1-A	PIFA	I-Pex	2.98	SKU 1
2	Azurewave	AW-CU544	PCB	N/A	3.12	SKU 2

Note 1: The EUT has two antennas.

Note 2: EUT can match with above antennas for using. Higher gain in each type 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 mode (1TX/1RX)

Ant. 1 or Ant. 2 could transmit/receive.

For BT function:

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

Ant. 1 or Ant. 2 could transmit/receive.



1.1.3 EUT Information

Operational Condition	
EUT Power Type	From Host system
EUT Function	<input checked="" type="checkbox"/> Point-to-multipoint <input type="checkbox"/> Point-to-point
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-BR(1Mbps)	0.809	0.92	2.888m	1k
BT-EDR(2Mbps)	0.752	1.24	2.892m	1k
BT-EDR(3Mbps)	0.752	1.24	2.894m	1k

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

1.1.5 Table for Multiple Listing

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

Model Name	Description
AW-CU544-E, AW-CU544-P	All the models are identical, the difference model for served as marketing strategy.

Note: From the above models, model: AW-CU544-E was selected as representative model for the test and its data was recorded in this report.



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				
<input checked="" type="checkbox"/>	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)		
		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	Yuna	22.4~23.6°C / 58~62%	18/Jun/2022
RF Conducted	TH01-HY	Johnny	23.1~25.7°C / 54~63%	08/Jun/2022~11/Jul/2022
Radiated	03CH02-HY	Lego	21.5~22.3°C / 58~61%	28/May/2022~10/Jun/2022
<input type="checkbox"/>	Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)		
		TEL: 886-3-318-0787	FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

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	ActivePerl-5.8.4.810-MSWin32
-----------------------	------------------------------

Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	0
2440MHz	0
2480MHz	0
BT-EDR(2Mbps)	-
2402MHz	0
2440MHz	0
2480MHz	0
BT-EDR(3Mbps)	-
2402MHz	0
2440MHz	0
2480MHz	0

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	USB mode; PCB Ant.
2	USB mode; PIFA Ant.

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 <input checked="" type="checkbox"/> Non-adaptive frequency hopping systems (Non-AFH) <input type="checkbox"/> adaptive frequency hopping systems (AFH)

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	USB mode; PCB Ant.		
2	USB mode; PIFA Ant.		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V



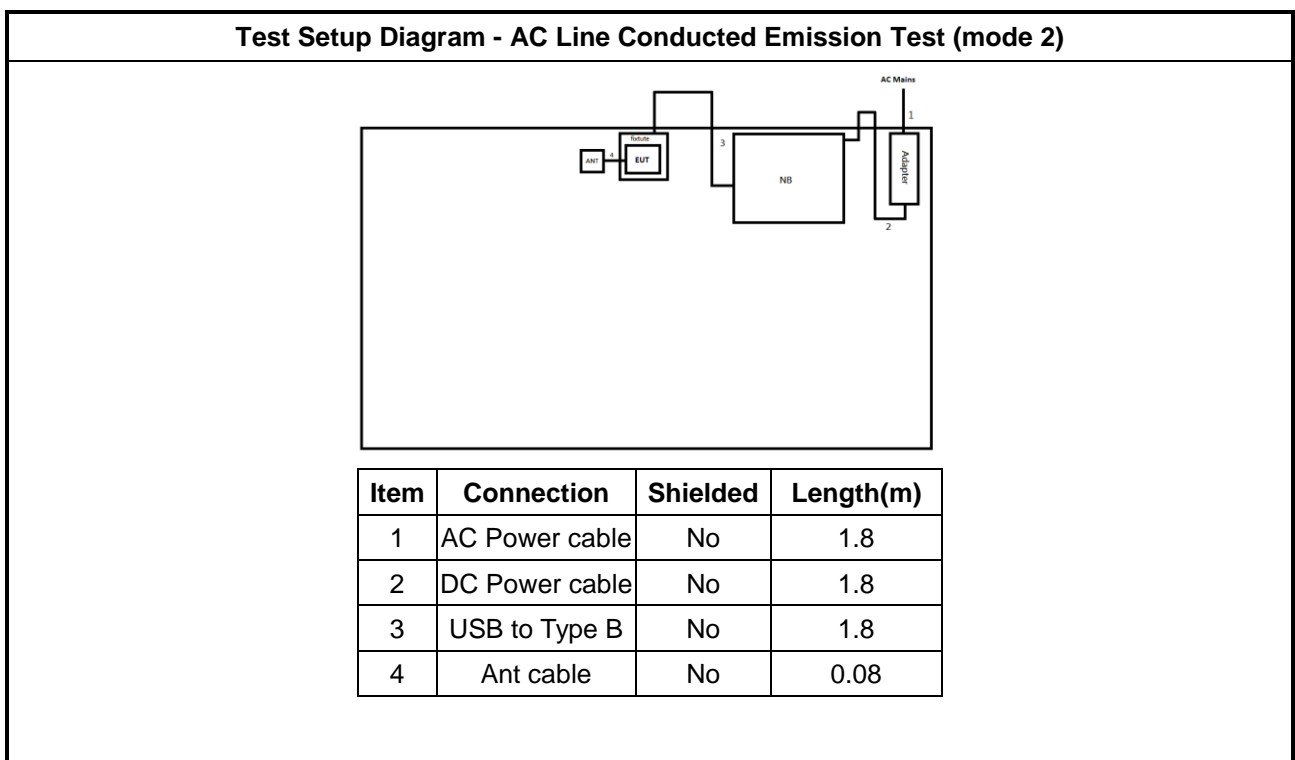
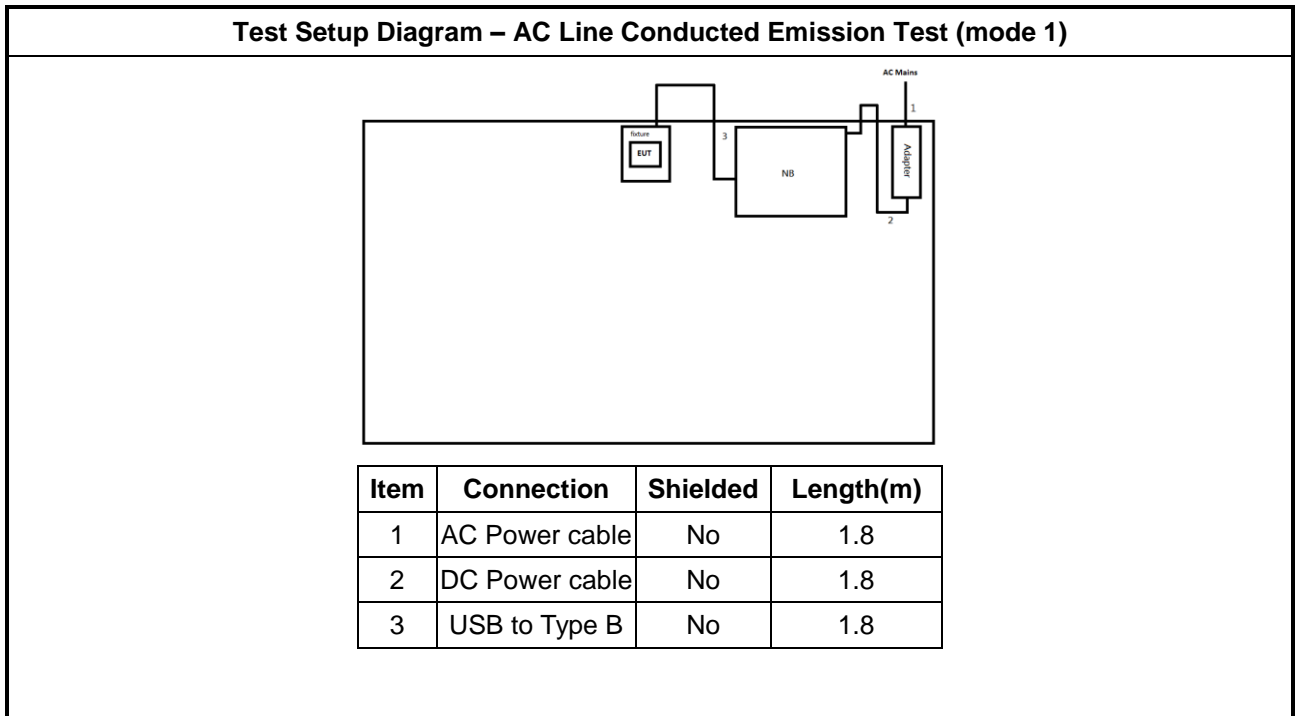
2.3 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	HP	HSTNN-142C	-	-
2	Adapter for NB	HP	HSTNN-LA40	-	-
3	USB to Type B	-	-	-	-
4	Fixture	AzureWave	2427	-	Provided by Customer

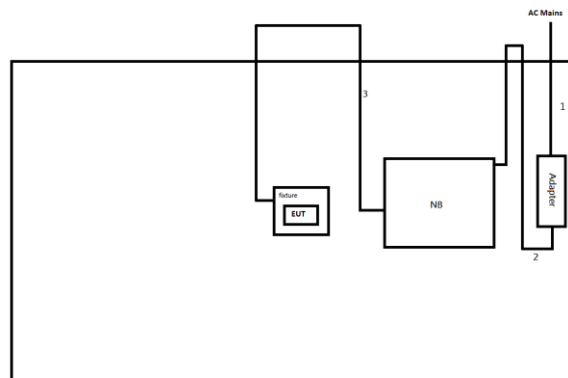
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	HP	HSTNN-I42C	-	-
2	Adapter for NB	HP	HSTNN-CA40	-	-
3	Fixture	AzureWave	2427	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	HP	HSTNN-142C	-	-
2	Adapter for NB	HP	HSTNN-LA40	-	-
3	USB to Type B	-	-	-	-
4	Fixture	AzureWave	2427	-	Provided by Customer

2.4 Test Setup Diagram

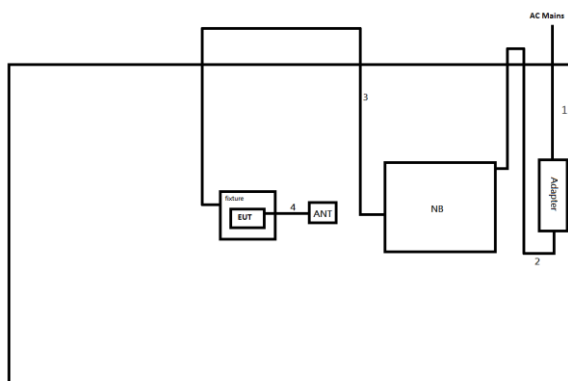


Test Setup Diagram - Radiated Test (mode 1)



Item	Connection	Shielded	Length(m)
1	AC Power cable	No	1.8
2	DC Power cable	No	1.8
3	USB to Type B	No	1.8

Test Setup Diagram - Radiated Test (mode 2)



Item	Connection	Shielded	Length(m)
1	AC Power cable	No	1.8
2	DC Power cable	No	1.8
3	USB to Type B	No	1.8
4	Ant cable	No	0.08

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

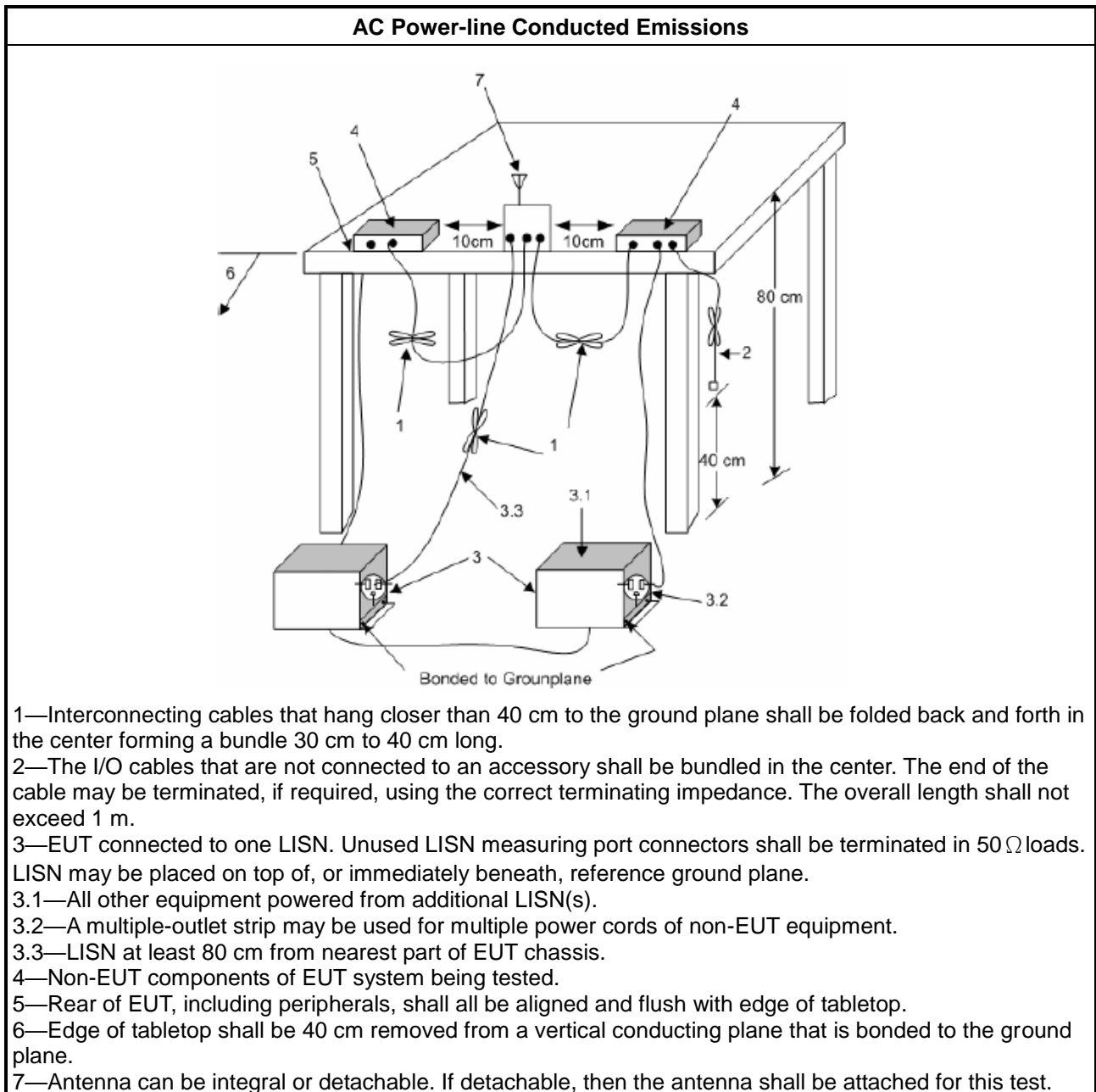
Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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



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	
<ul style="list-style-type: none"> 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	<ul style="list-style-type: none"> $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

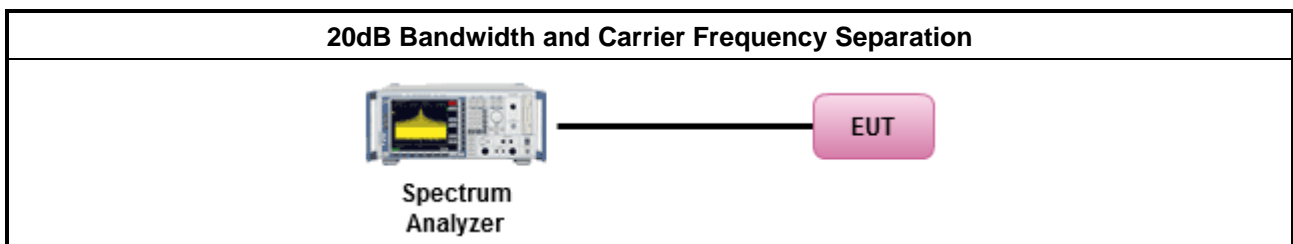
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement.

3.2.4 Test Setup



3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> ▪ $N \geq 75$; Power 30dBm; EIRP 36dBm
	<ul style="list-style-type: none"> ▪ $75 > N \geq 15$; Power 21dBm; EIRP 27dBm
N: Number of Hopping Frequencies	

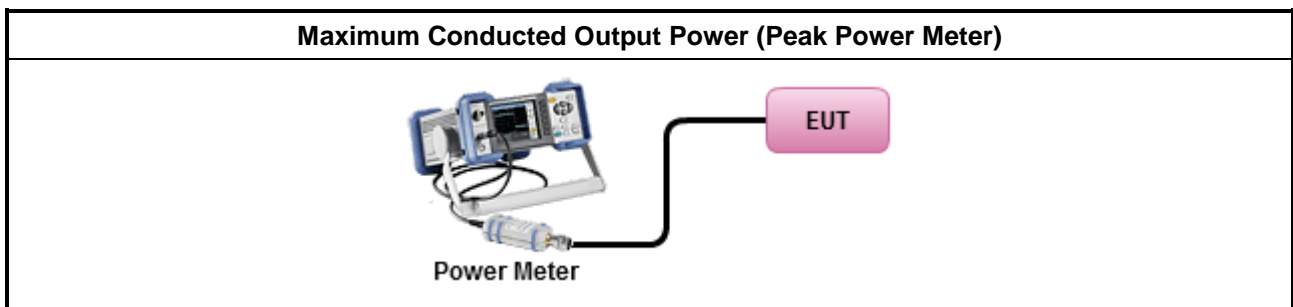
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Number of Hopping Frequencies and Hopping Bandedge

3.4.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit	
<ul style="list-style-type: none"> 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	<ul style="list-style-type: none"> $75 > N \geq 15$ and $ChS \geq MAX$ (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

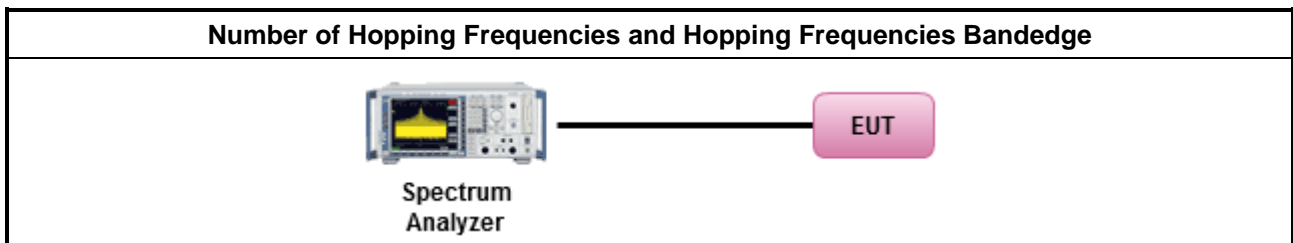
3.4.3 Measuring Instruments

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

3.4.4 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.6 for hopping frequencies Bandedge measurement.

3.4.5 Test Setup



3.4.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

3.4.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

3.5 Time of Occupancy (Dwell Time)

3.5.1 Time of Occupancy (Dwell Time) Limit

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems	
<ul style="list-style-type: none"> 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> $N \geq 75$; 0.4s in $N \times 0.4$ period
	<ul style="list-style-type: none"> $75 > N \geq 15$; 0.4s in $N \times 0.4$ period
N: Number of Hopping Frequencies	

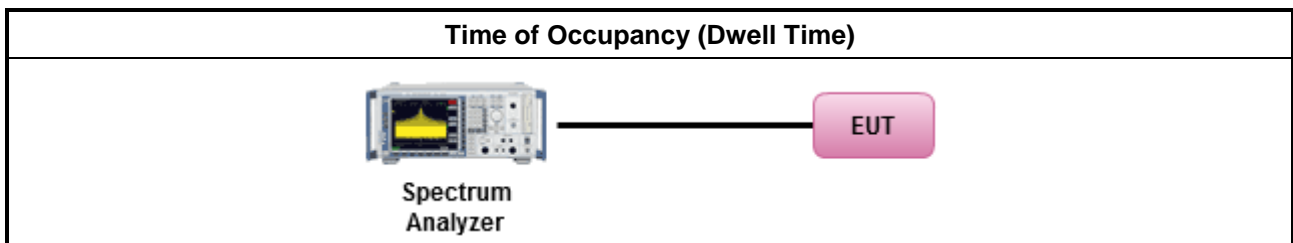
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

3.6 Emissions in Non-restricted Frequency Bands

3.6.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (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.	

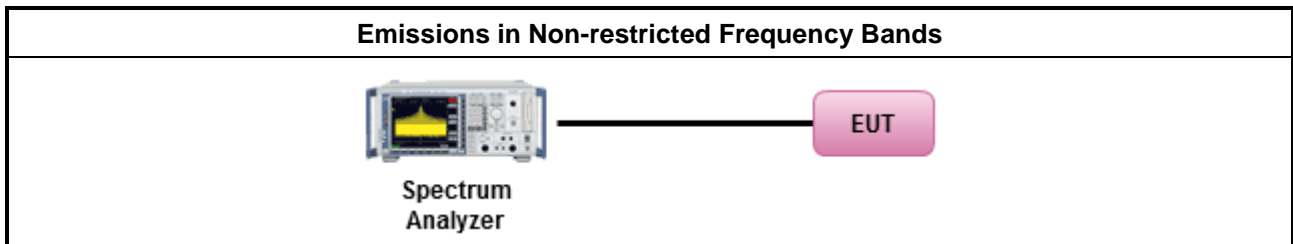
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F

3.7 Emissions in Restricted Frequency Bands

3.7.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

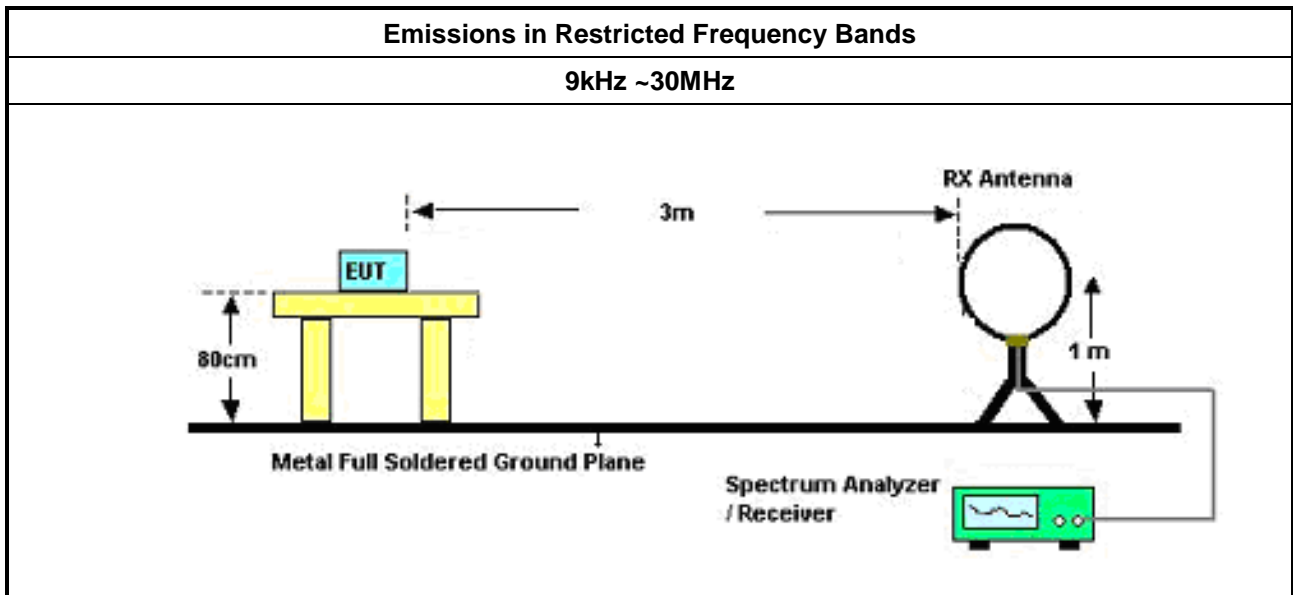
Test Method	
▪	The average emission levels shall be measured in [hopping duty factor].
▪	Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted emissions shall be measured using following options below:
▪	Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.
▪	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
▪	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.
▪	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.

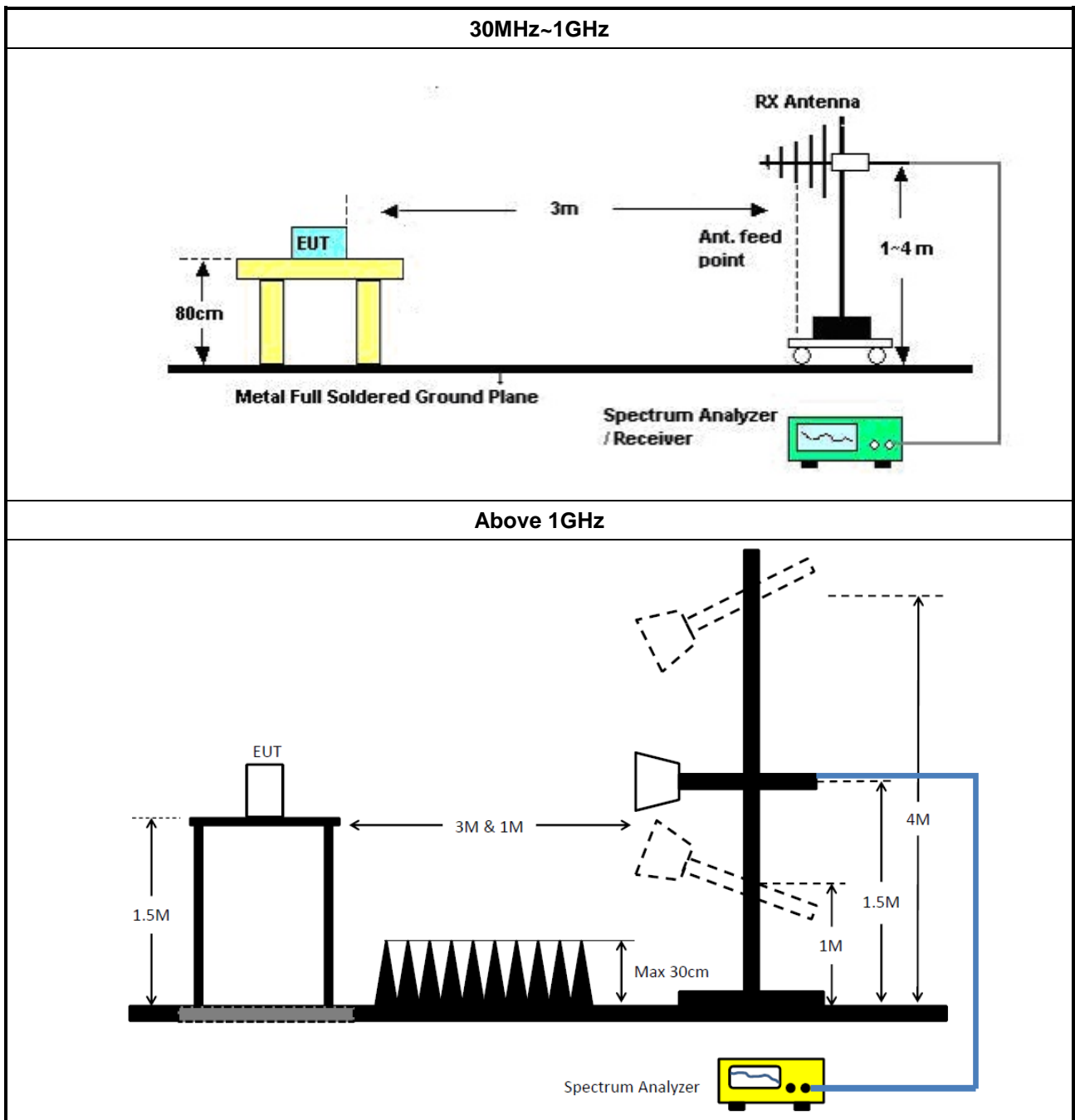
3.7.4 Measurement Results Calculation

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





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	ESR	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.10.14	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	01/Apr/2022	31/Mar/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2021	20/Oct/2022
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	21/Feb/2022	20/Feb/2023
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	21/Feb/2022	20/Feb/2023
SENSE-15247_FS	Sporton	V5.10.7.16	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	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	02/Aug/2021	01/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	01/Aug/2021	31/Jul/2022
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	08/Apr/2022	07/Apr/2023
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2021	28/Jun/2022
Microwave Preamp	Agilent	8449B	3008A02373	1GHz~26.5GHz	03/Nov/2021	02/Nov/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	14/Sep/2021	13/Sep/2022
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	04/Sep/2021	03/Sep/2022
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	04/May/2022	03/May/2023
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	04/May/2022	03/May/2023
RF Cable-R03m	HUBER+SUHNE R	SUCOFLEX104	805193/4+805192 /4	1GHz~40GHz	01/Apr/2022	31/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premp	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	13/May/2022	12/May/2023
SENSE-15247_FS	Sporton	V5.10.7.14	N/A	N/A	N/A	N/A



Summary

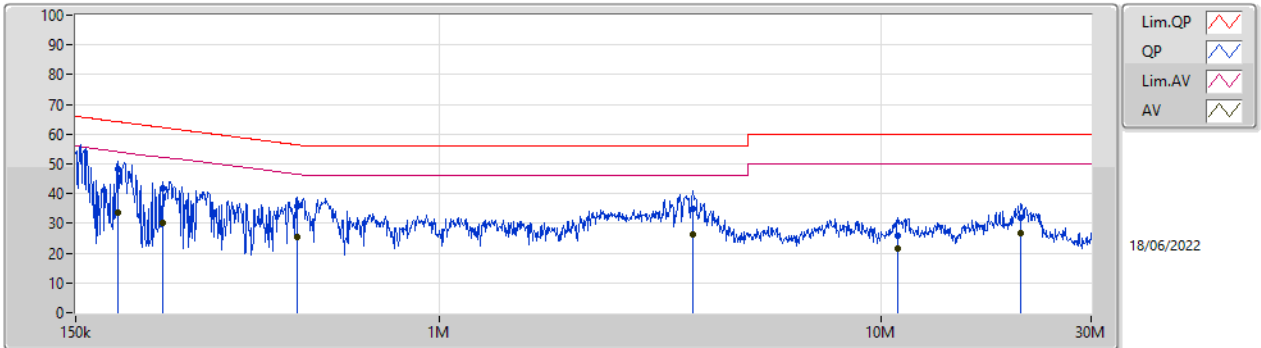
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	184.605k	49.98	64.28	-14.30	Neutral



Result

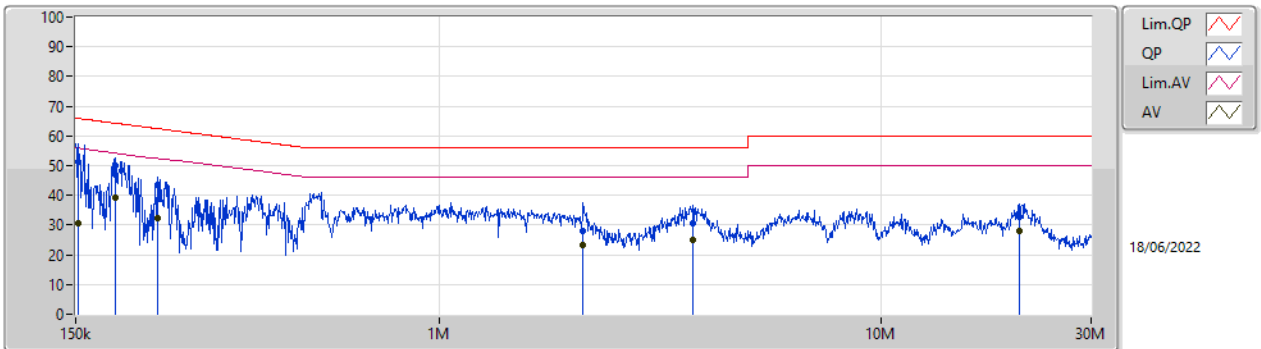
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	187.577k	48.36	64.15	-15.79	Line	-
Mode 1	Pass	AV	187.577k	33.63	54.15	-20.52	Line	-
Mode 1	Pass	QP	236.447k	41.63	62.21	-20.58	Line	-
Mode 1	Pass	AV	236.447k	29.97	52.21	-22.24	Line	-
Mode 1	Pass	QP	475.482k	35.67	56.42	-20.75	Line	-
Mode 1	Pass	AV	475.482k	25.49	46.42	-20.93	Line	-
Mode 1	Pass	QP	3.745M	35.03	56.00	-20.97	Line	-
Mode 1	Pass	AV	3.745M	26.45	46.00	-19.55	Line	-
Mode 1	Pass	QP	10.917M	25.74	60.00	-34.26	Line	-
Mode 1	Pass	AV	10.917M	21.52	50.00	-28.48	Line	-
Mode 1	Pass	QP	20.843M	32.02	60.00	-27.98	Line	-
Mode 1	Pass	AV	20.843M	26.84	50.00	-23.16	Line	-
Mode 1	Pass	QP	152.414k	51.25	65.87	-14.62	Neutral	-
Mode 1	Pass	AV	152.414k	30.74	55.87	-25.13	Neutral	-
Mode 1	Pass	QP	184.605k	49.98	64.28	-14.30	Neutral	-
Mode 1	Pass	AV	184.605k	39.32	54.28	-14.96	Neutral	-
Mode 1	Pass	QP	229.932k	43.53	62.44	-18.91	Neutral	-
Mode 1	Pass	AV	229.932k	32.35	52.44	-20.09	Neutral	-
Mode 1	Pass	QP	2.116M	28.13	56.00	-27.87	Neutral	-
Mode 1	Pass	AV	2.116M	23.35	46.00	-22.65	Neutral	-
Mode 1	Pass	QP	3.745M	30.69	56.00	-25.31	Neutral	-
Mode 1	Pass	AV	3.745M	24.87	46.00	-21.13	Neutral	-
Mode 1	Pass	QP	20.595M	32.93	60.00	-27.07	Neutral	-
Mode 1	Pass	AV	20.595M	27.83	50.00	-22.17	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	187.577k	48.36	64.15	-15.79	19.63	Line	-	28.73	9.69	0.03	9.91
AV	187.577k	33.63	54.15	-20.52	19.63	Line	-	14.00	9.69	0.03	9.91
QP	236.447k	41.63	62.21	-20.58	19.63	Line	-	22.00	9.69	0.03	9.91
AV	236.447k	29.97	52.21	-22.24	19.63	Line	-	10.34	9.69	0.03	9.91
QP	475.482k	35.67	56.42	-20.75	19.93	Line	-	16.04	9.68	0.04	9.91
AV	475.482k	25.49	46.42	-20.93	19.63	Line	-	5.86	9.68	0.04	9.91
QP	3.745M	35.03	56.00	-20.97	19.76	Line	-	15.27	9.71	0.13	9.92
AV	3.745M	26.45	46.00	-19.55	19.76	Line	-	6.69	9.71	0.13	9.92
QP	10.917M	25.74	60.00	-34.26	19.93	Line	-	5.81	9.81	0.19	9.93
AV	10.917M	21.52	50.00	-28.48	19.93	Line	-	1.59	9.81	0.19	9.93
QP	20.843M	32.02	60.00	-27.98	20.00	Line	-	12.02	9.79	0.28	9.93
AV	20.843M	26.84	50.00	-23.16	20.00	Line	-	6.84	9.79	0.28	9.93

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	152.414k	51.25	65.87	-14.62	19.67	Neutral	-	31.58	9.73	0.03	9.91
AV	152.414k	30.74	55.87	-25.13	19.67	Neutral	-	11.07	9.73	0.03	9.91
QP	184.605k	49.98	64.28	-14.30	19.66	Neutral	-	30.32	9.72	0.03	9.91
AV	184.605k	39.32	54.28	-14.96	19.66	Neutral	-	19.66	9.72	0.03	9.91
QP	229.932k	43.53	62.44	-18.91	19.66	Neutral	-	23.87	9.72	0.03	9.91
AV	229.932k	32.35	52.44	-20.09	19.66	Neutral	-	12.69	9.72	0.03	9.91
QP	2.116M	28.13	56.00	-27.87	19.74	Neutral	-	8.39	9.74	0.08	9.92
AV	2.116M	23.35	46.00	-22.65	19.74	Neutral	-	3.61	9.74	0.08	9.92
QP	3.745M	30.69	56.00	-25.31	19.81	Neutral	-	10.88	9.76	0.13	9.92
AV	3.745M	24.87	46.00	-21.13	19.81	Neutral	-	5.06	9.76	0.13	9.92
QP	20.595M	32.93	60.00	-27.07	20.21	Neutral	-	12.72	10.00	0.28	9.93
AV	20.595M	27.83	50.00	-22.17	20.21	Neutral	-	7.62	10.00	0.28	9.93



Summary

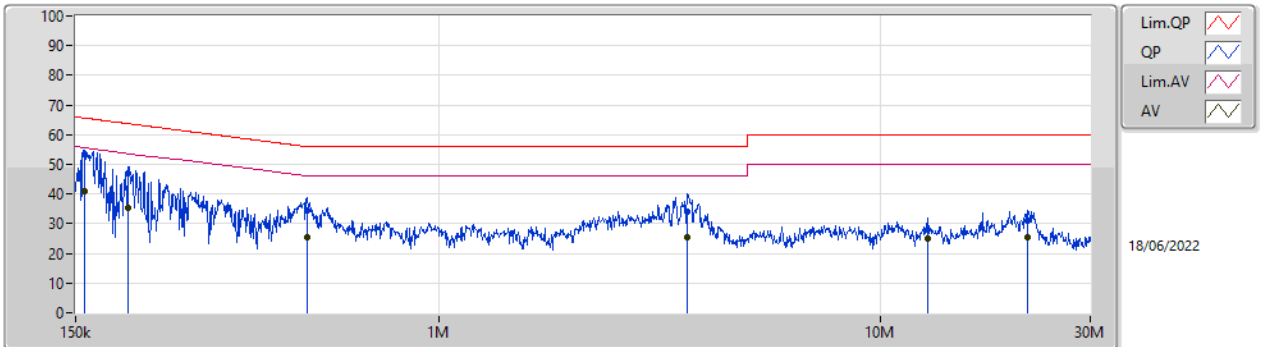
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	153.024k	53.68	65.83	-12.15	Neutral



Result

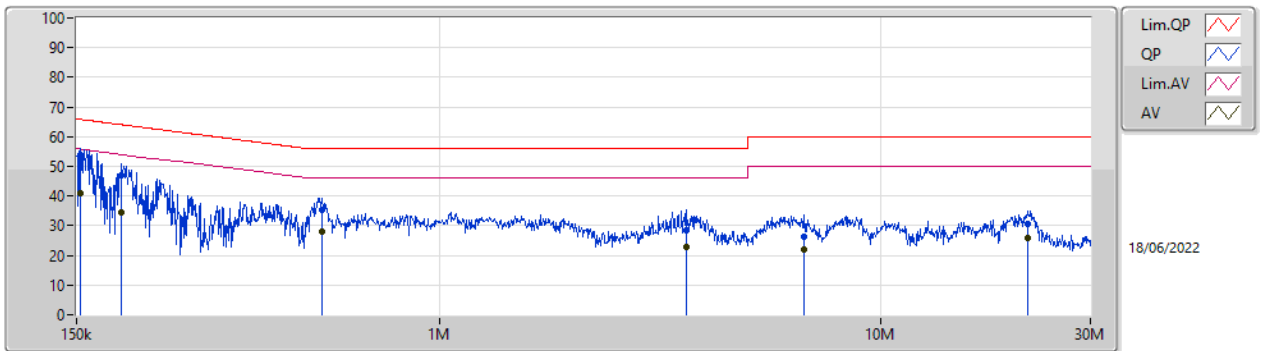
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 2	Pass	QP	156.734k	53.25	65.64	-12.39	Line	-
Mode 2	Pass	AV	156.734k	41.09	55.64	-14.55	Line	-
Mode 2	Pass	QP	196.781k	46.80	63.74	-16.94	Line	-
Mode 2	Pass	AV	196.781k	35.25	53.74	-18.49	Line	-
Mode 2	Pass	QP	502.813k	34.44	56.00	-21.56	Line	-
Mode 2	Pass	AV	502.813k	25.47	46.00	-20.53	Line	-
Mode 2	Pass	QP	3.656M	34.03	56.00	-21.97	Line	-
Mode 2	Pass	AV	3.656M	25.25	46.00	-20.75	Line	-
Mode 2	Pass	QP	12.807M	27.98	60.00	-32.02	Line	-
Mode 2	Pass	AV	12.807M	24.79	50.00	-25.21	Line	-
Mode 2	Pass	QP	21.692M	30.86	60.00	-29.14	Line	-
Mode 2	Pass	AV	21.692M	25.52	50.00	-24.48	Line	-
Mode 2	Pass	QP	153.024k	53.68	65.83	-12.15	Neutral	-
Mode 2	Pass	AV	153.024k	41.01	55.83	-14.82	Neutral	-
Mode 2	Pass	QP	189.837k	47.00	64.05	-17.05	Neutral	-
Mode 2	Pass	AV	189.837k	34.68	54.05	-19.37	Neutral	-
Mode 2	Pass	QP	540.273k	35.46	56.00	-20.54	Neutral	-
Mode 2	Pass	AV	540.273k	27.92	46.00	-18.08	Neutral	-
Mode 2	Pass	QP	3.627M	28.32	56.00	-27.68	Neutral	-
Mode 2	Pass	AV	3.627M	22.95	46.00	-23.05	Neutral	-
Mode 2	Pass	QP	6.735M	26.30	60.00	-33.70	Neutral	-
Mode 2	Pass	AV	6.735M	22.09	50.00	-27.91	Neutral	-
Mode 2	Pass	QP	21.692M	30.42	60.00	-29.58	Neutral	-
Mode 2	Pass	AV	21.692M	25.66	50.00	-24.34	Neutral	-

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	156.734k	53.25	65.64	-12.39	19.63	Line	-	33.62	9.69	0.03	9.91
AV	156.734k	41.09	55.64	-14.55	19.63	Line	-	21.46	9.69	0.03	9.91
QP	196.781k	46.80	63.74	-16.94	19.63	Line	-	27.17	9.69	0.03	9.91
AV	196.781k	35.25	53.74	-18.49	19.63	Line	-	15.62	9.69	0.03	9.91
QP	502.813k	34.44	56.00	-21.56	19.63	Line	-	14.81	9.68	0.04	9.91
AV	502.813k	25.47	46.00	-20.53	19.63	Line	-	5.84	9.68	0.04	9.91
QP	3.656M	34.03	56.00	-21.97	19.75	Line	-	14.28	9.71	0.12	9.92
AV	3.656M	25.25	46.00	-20.75	19.75	Line	-	5.50	9.71	0.12	9.92
QP	12.807M	27.98	60.00	-32.02	19.95	Line	-	8.03	9.80	0.22	9.93
AV	12.807M	24.79	50.00	-25.21	19.95	Line	-	4.84	9.80	0.22	9.93
QP	21.692M	30.86	60.00	-29.14	20.00	Line	-	10.86	9.79	0.28	9.93
AV	21.692M	25.52	50.00	-24.48	20.00	Line	-	5.52	9.79	0.28	9.93

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	153.024k	53.68	65.83	-12.15	19.67	Neutral	-	34.01	9.73	0.03	9.91
AV	153.024k	41.01	55.83	-14.82	19.67	Neutral	-	21.34	9.73	0.03	9.91
QP	189.837k	47.00	64.05	-17.05	19.66	Neutral	-	27.34	9.72	0.03	9.91
AV	189.837k	34.68	54.05	-19.37	19.66	Neutral	-	15.02	9.72	0.03	9.91
QP	540.273k	35.46	56.00	-20.54	19.67	Neutral	-	15.79	9.72	0.04	9.91
AV	540.273k	27.92	46.00	-18.08	19.67	Neutral	-	8.25	9.72	0.04	9.91
QP	3.627M	28.32	56.00	-27.68	19.80	Neutral	-	8.52	9.76	0.12	9.92
AV	3.627M	22.95	46.00	-23.05	19.80	Neutral	-	3.15	9.76	0.12	9.92
QP	6.735M	26.30	60.00	-33.70	19.92	Neutral	-	6.38	9.83	0.16	9.93
AV	6.735M	22.09	50.00	-27.91	19.92	Neutral	-	2.17	9.83	0.16	9.93
QP	21.692M	30.42	60.00	-29.58	20.23	Neutral	-	10.19	10.02	0.28	9.93
AV	21.692M	25.66	50.00	-24.34	20.23	Neutral	-	5.43	10.02	0.28	9.93



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)	1.023M	918.291k	918KF1D	993.75k	914.543k
BT-EDR(3Mbps)	1.311M	1.224M	1M22G1D	1.309M	1.218M

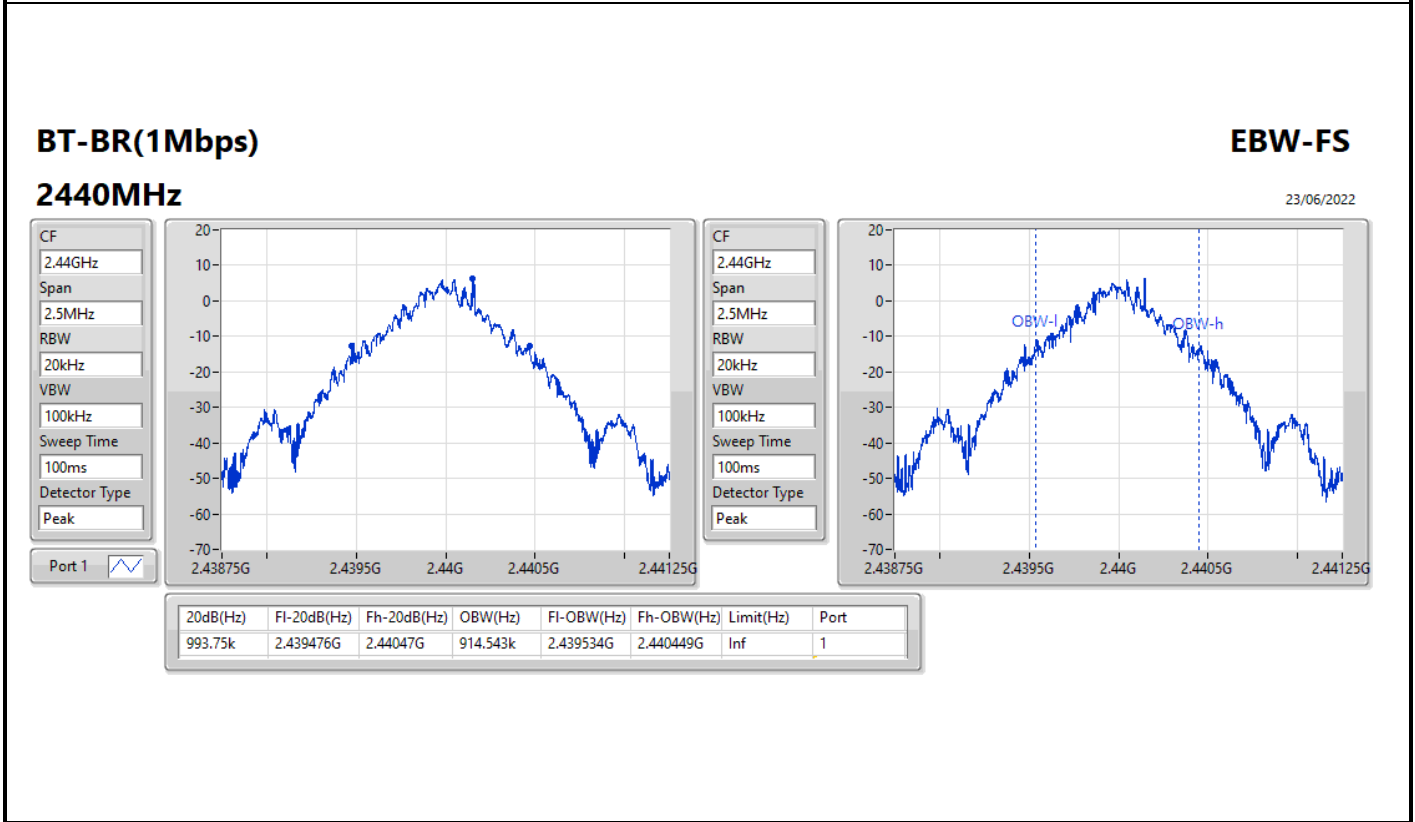
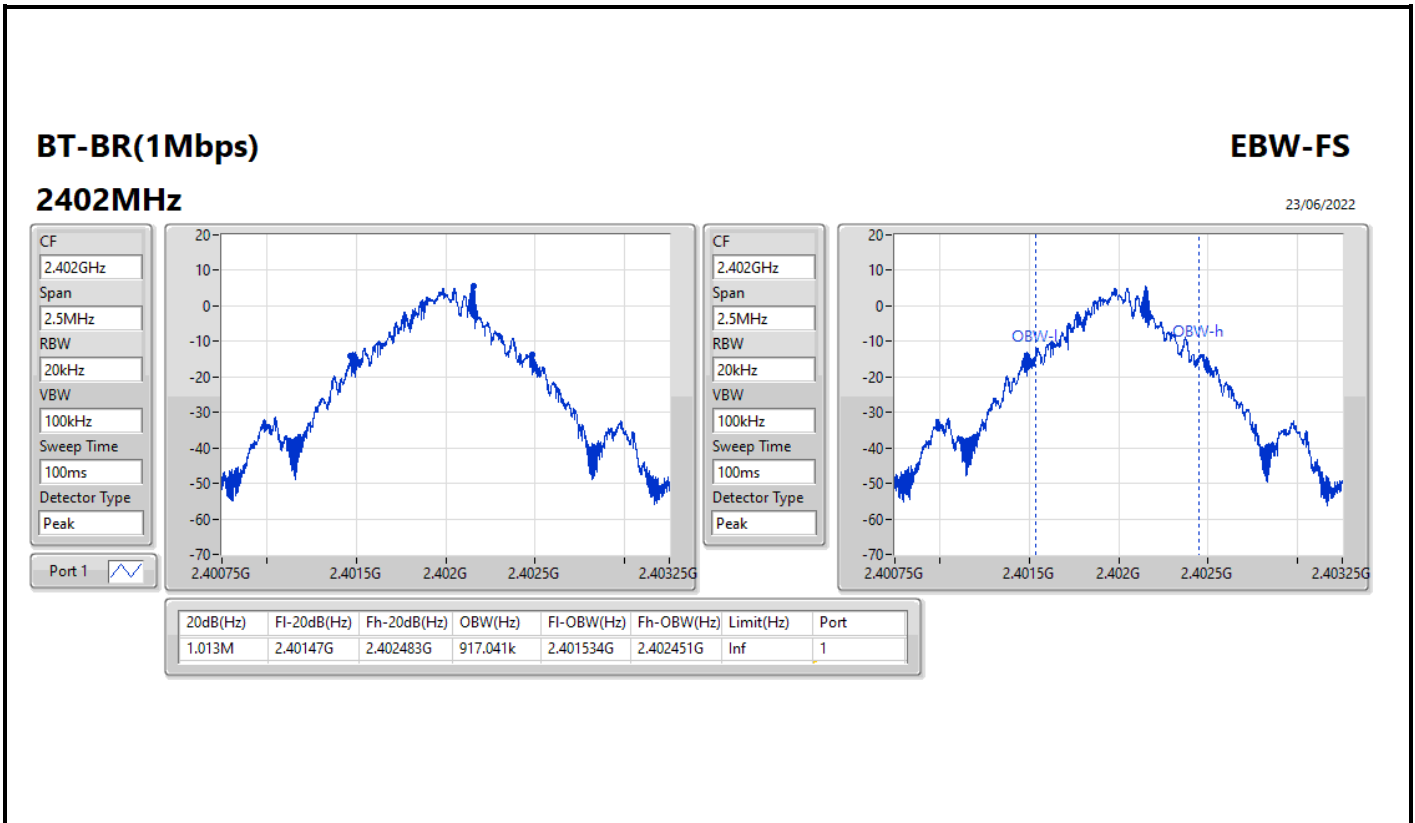
Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

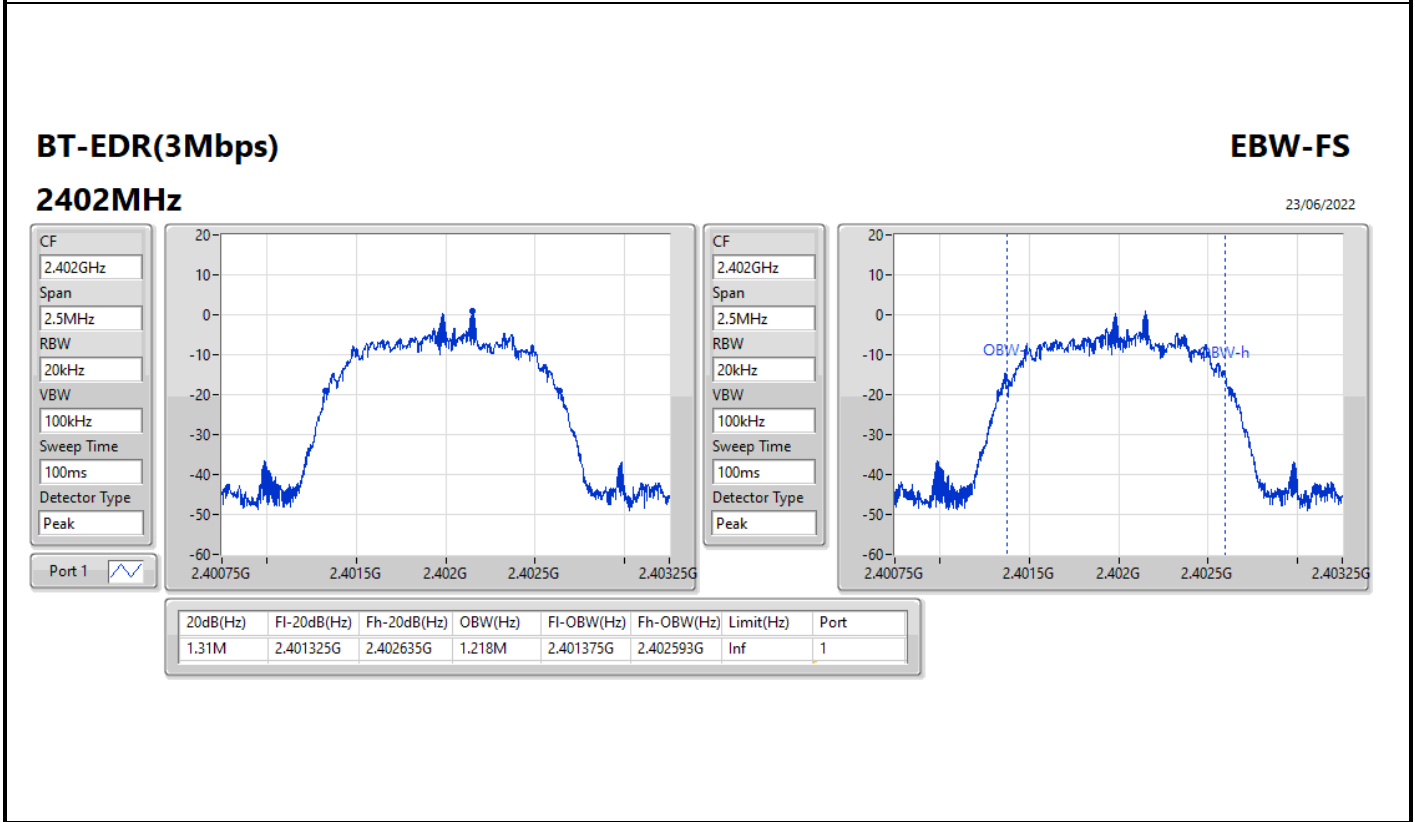
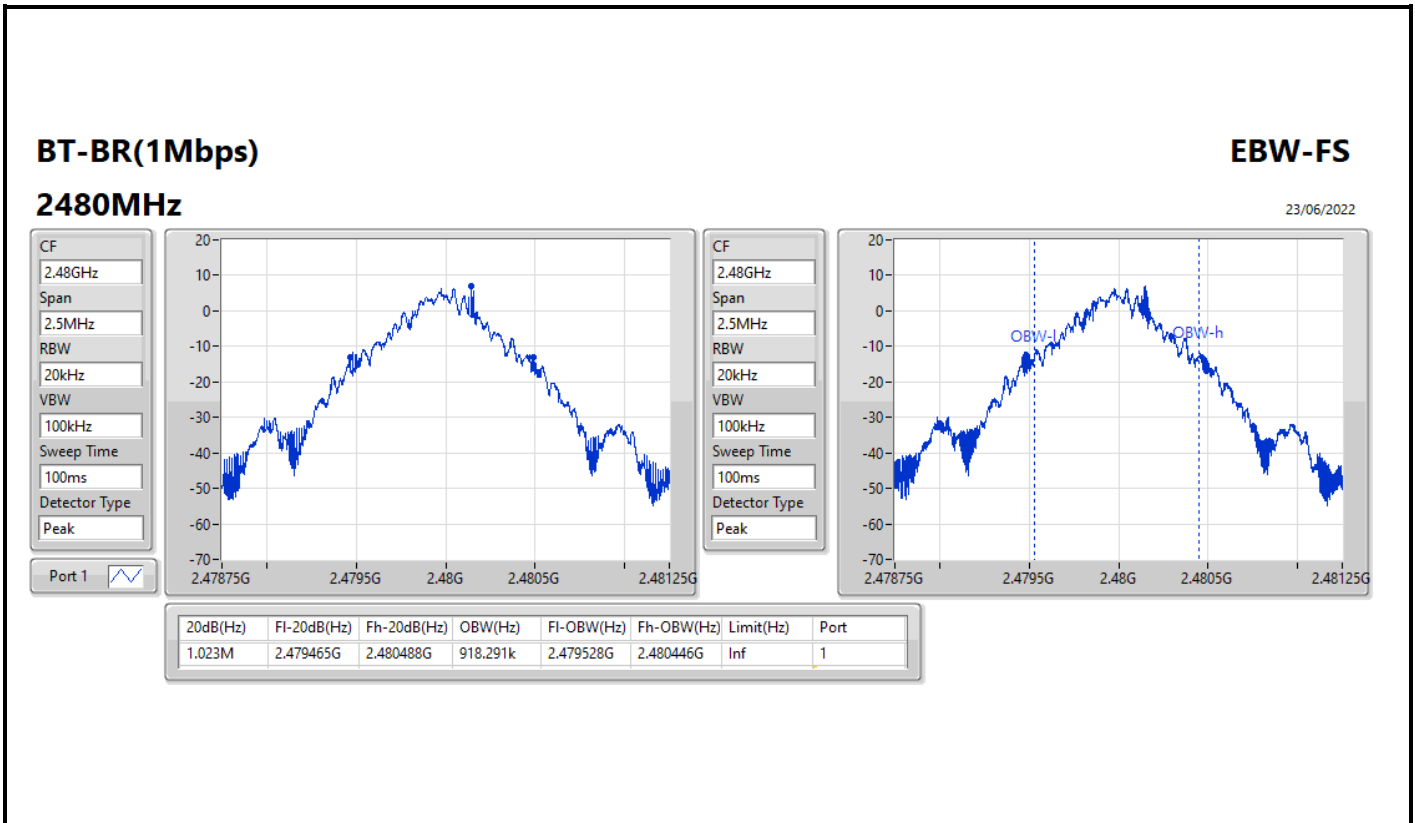


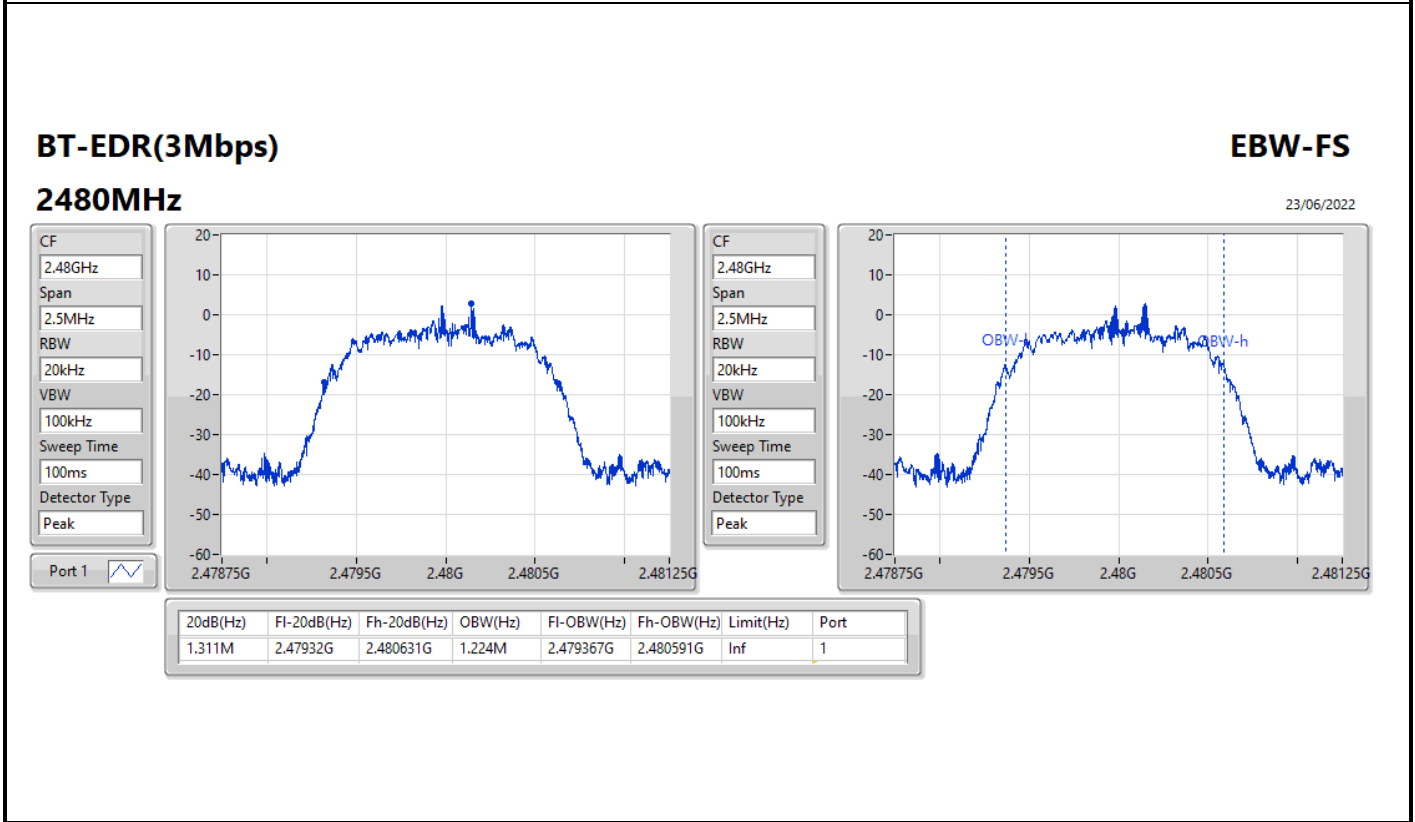
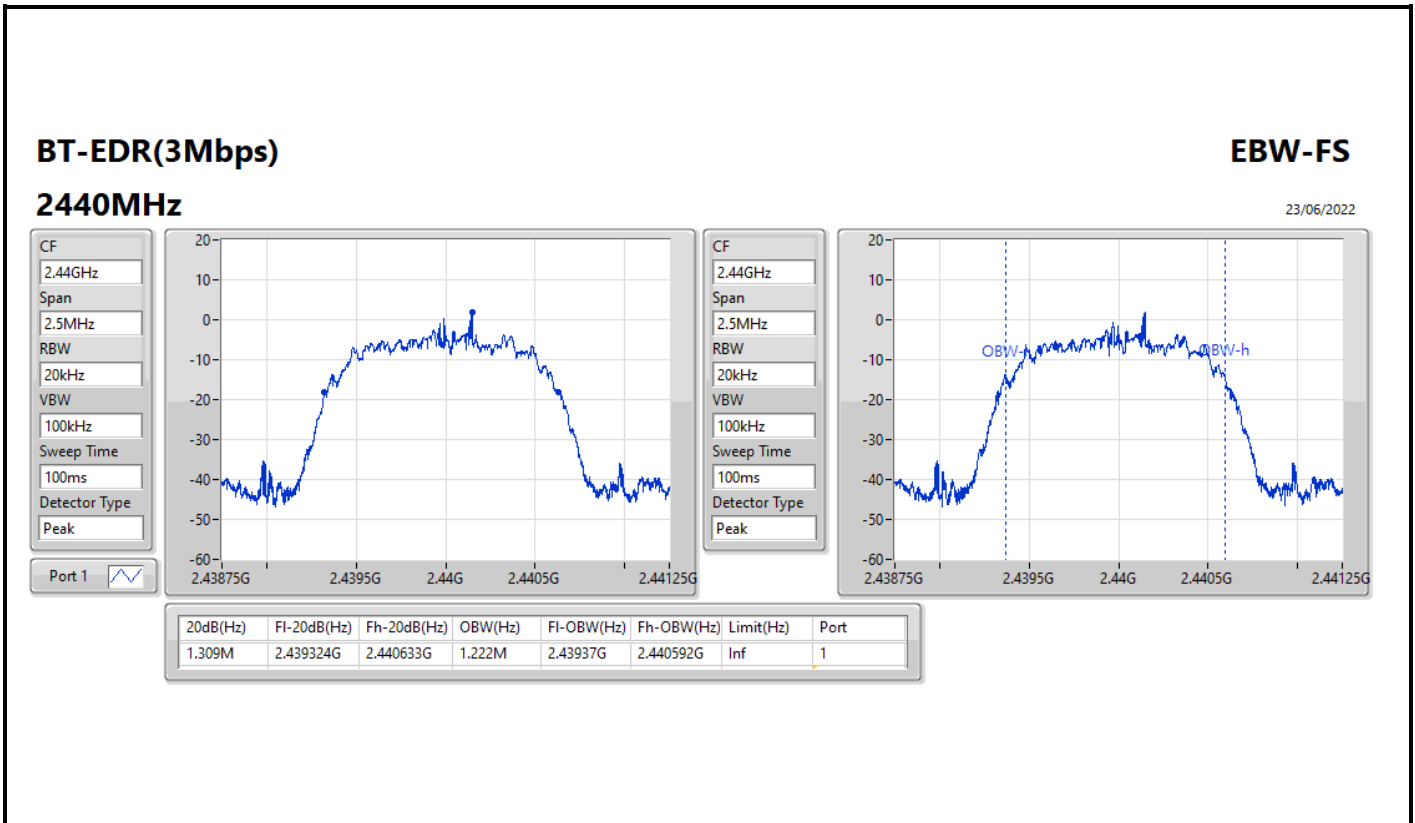
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.013M	917.041k
2440MHz	Pass	Inf	993.75k	914.543k
2480MHz	Pass	Inf	1.023M	918.291k
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.31M	1.218M
2440MHz	Pass	Inf	1.309M	1.222M
2480MHz	Pass	Inf	1.311M	1.224M

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









Summary

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



Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402149G	2.40315G	1.0005M	674.658k
2440MHz	Pass	2.440148G	2.441147G	999k	661.8375k
2480MHz	Pass	2.479148G	2.480145G	997.5k	681.318k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402151G	2.403153G	1.002M	873.126k
2440MHz	Pass	2.440148G	2.44115G	1.002M	873.126k
2480MHz	Pass	2.479148G	2.480147G	999k	873.126k

BT-BR(1Mbps)

Channel Separation-FS

2.402G/2.403GHz

23/06/2022



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402149G	2.40315G	1.0005M	674.658k

BT-BR(1Mbps)

Channel Separation-FS

2.44G/2.441GHz

23/06/2022



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440148G	2.441147G	999k	661.8375k


BT-BR(1Mbps)

2.48G/2.479GHz

Channel Separation-FS

23/06/2022



Port 1 

Ch Freq
2.48G/2.479G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

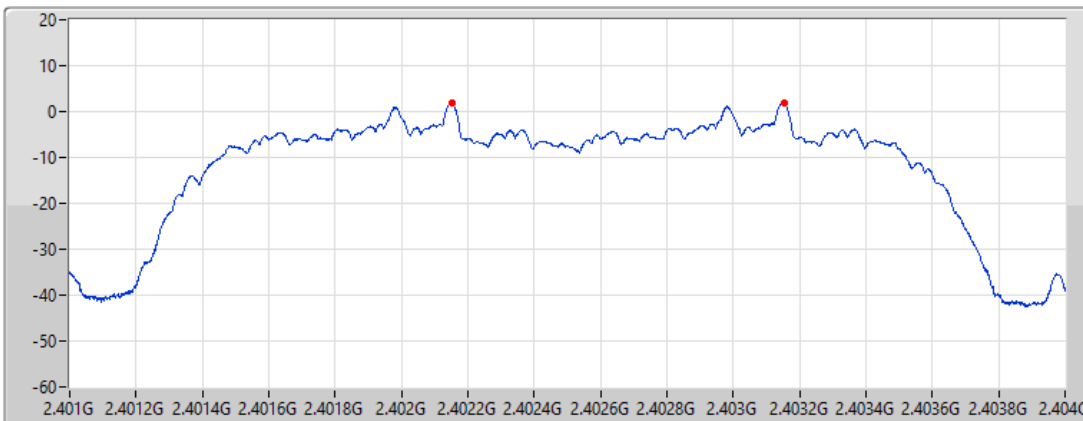
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479148G	2.480145G	997.5k	681.318k


BT-EDR(3Mbps)

2.402G/2.403GHz

Channel Separation-FS

23/06/2022



Port 1 

Ch Freq
2.402G/2.403G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402151G	2.403153G	1.002M	873.126k


BT-EDR(3Mbps)

Channel Separation-FS

2.44G/2.441GHz

23/06/2022



Port 1 

Ch Freq
2.44G/2.441G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440148G	2.44115G	1.002M	873.126k


BT-EDR(3Mbps)

Channel Separation-FS

2.48G/2.479GHz

23/06/2022



Port 1 

Ch Freq
2.48G/2.479G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479148G	2.480147G	999k	873.126k



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	10.39	0.01094
BT-EDR(3Mbps)	8.28	0.00673



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.12	8.75	21.00
2440MHz	Pass	3.12	9.72	21.00
2480MHz	Pass	3.12	10.39	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.12	6.54	21.00
2440MHz	Pass	3.12	7.36	21.00
2480MHz	Pass	3.12	8.28	21.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.78	0.00951
BT-EDR(3Mbps)	5.75	0.00376



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.12	8.34	21.00
2440MHz	Pass	3.12	9.22	21.00
2480MHz	Pass	3.12	9.78	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.12	3.65	21.00
2440MHz	Pass	3.12	4.62	21.00
2480MHz	Pass	3.12	5.75	21.00

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



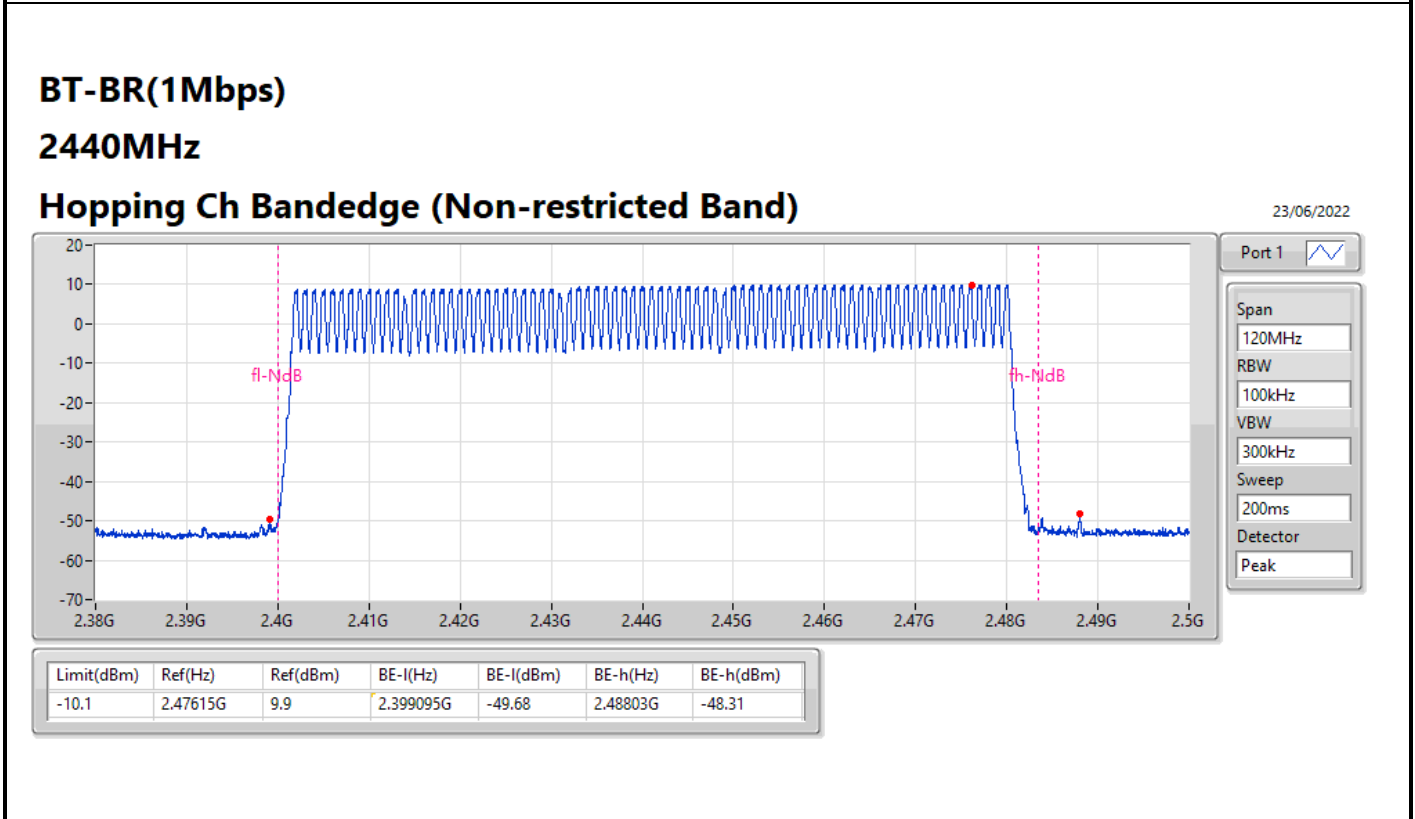
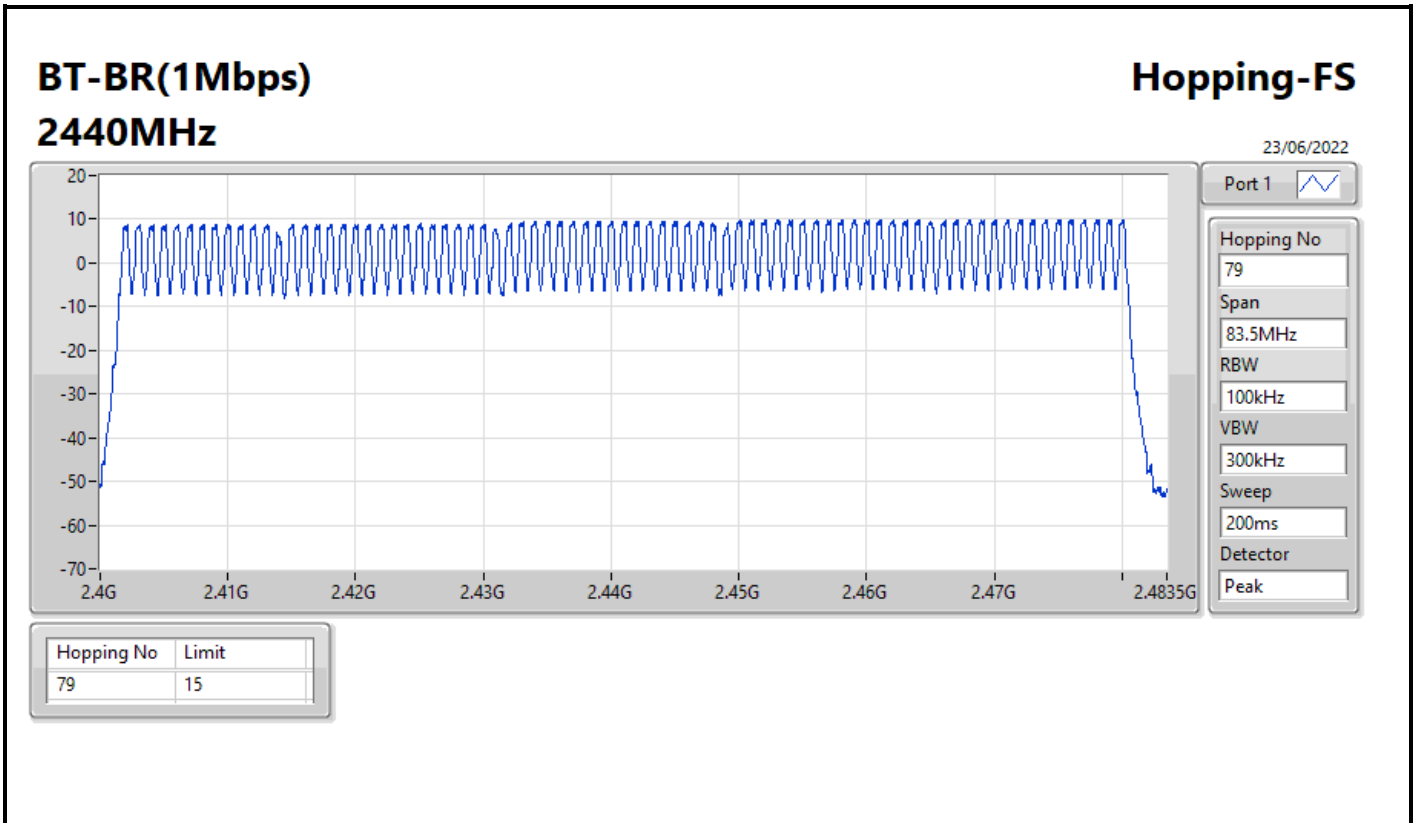
Summary

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



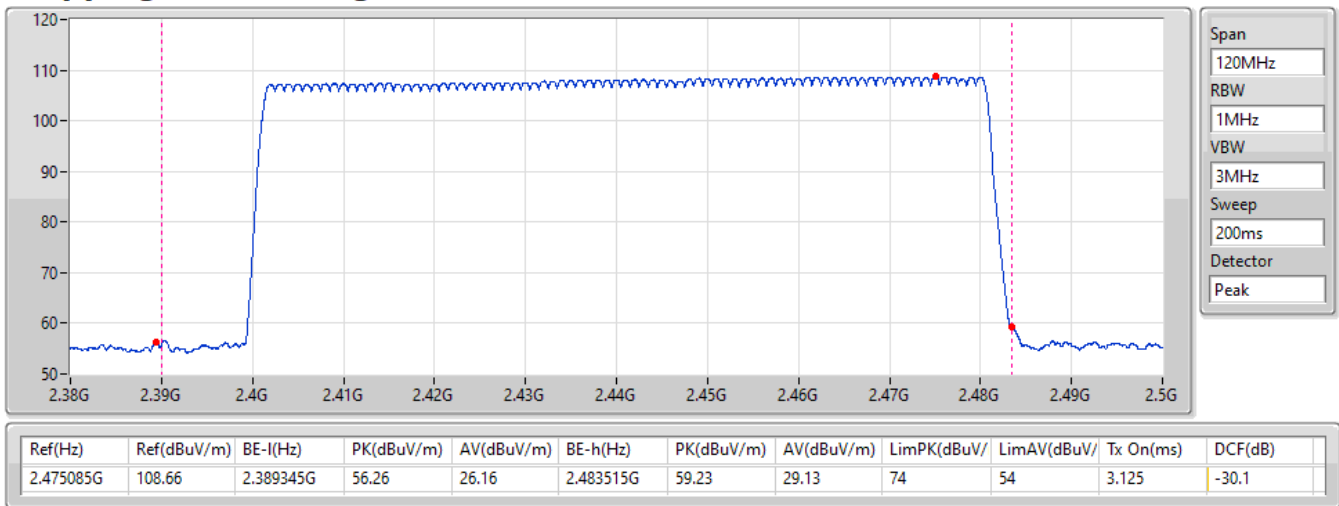
Result

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



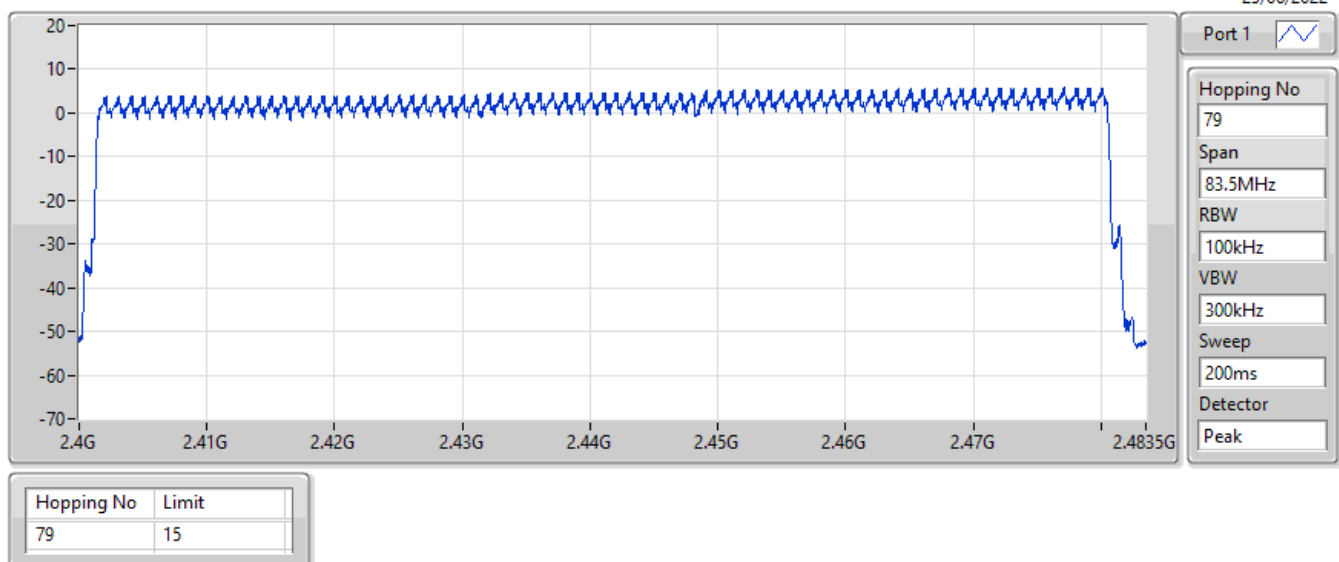
BT-BR(1Mbps)
2440MHz
Hopping Ch Bandedge (Restricted Band)

23/06/2022



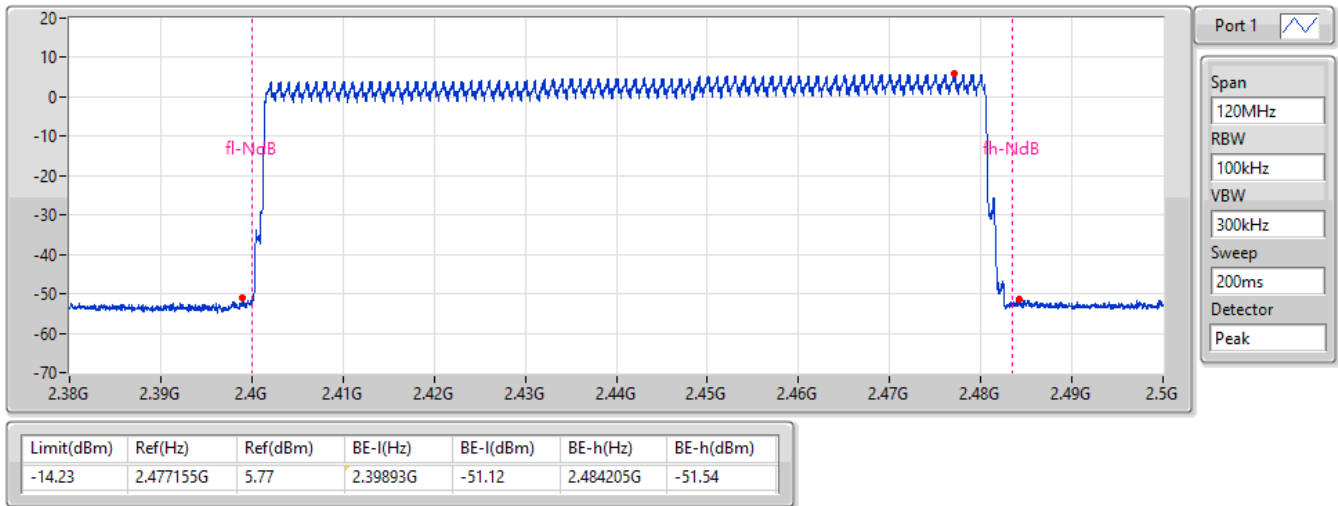
BT-EDR(3Mbps) **Hopping-FS**
2440MHz

23/06/2022



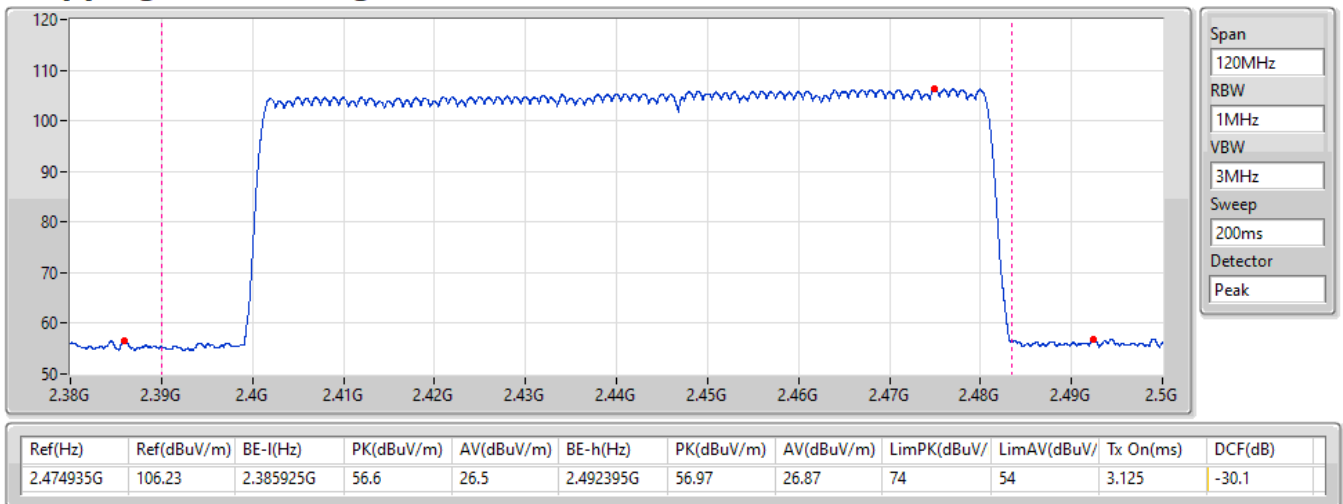
BT-EDR(3Mbps)
2440MHz
Hopping Ch Bandedge (Non-restricted Band)

23/06/2022



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

23/06/2022





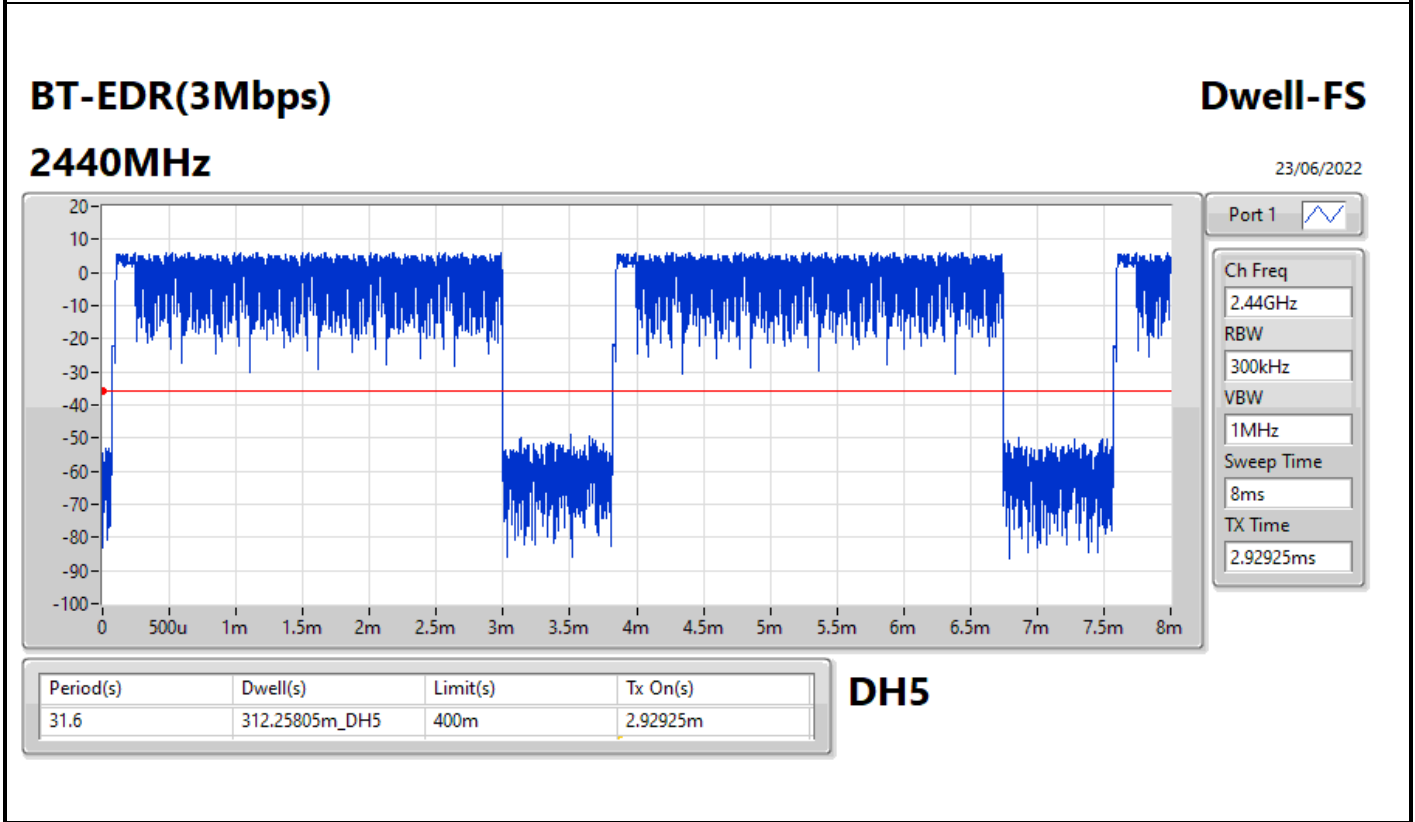
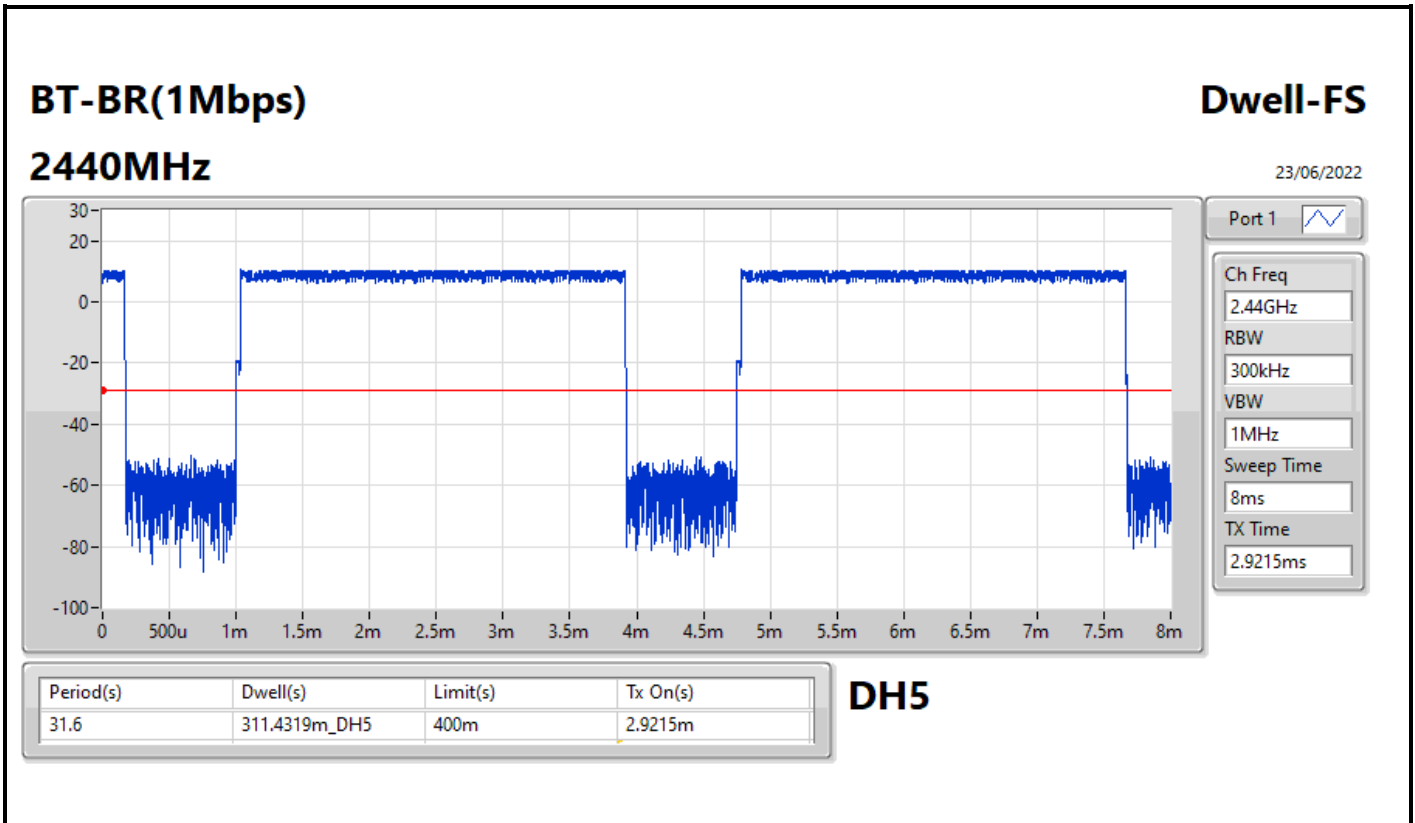
Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	311.4319m_DH5
BT-EDR(3Mbps)	312.25805m_DH5



Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	311.4319m_DH5	400m	2.9215m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	312.25805m_DH5	400m	2.92925m





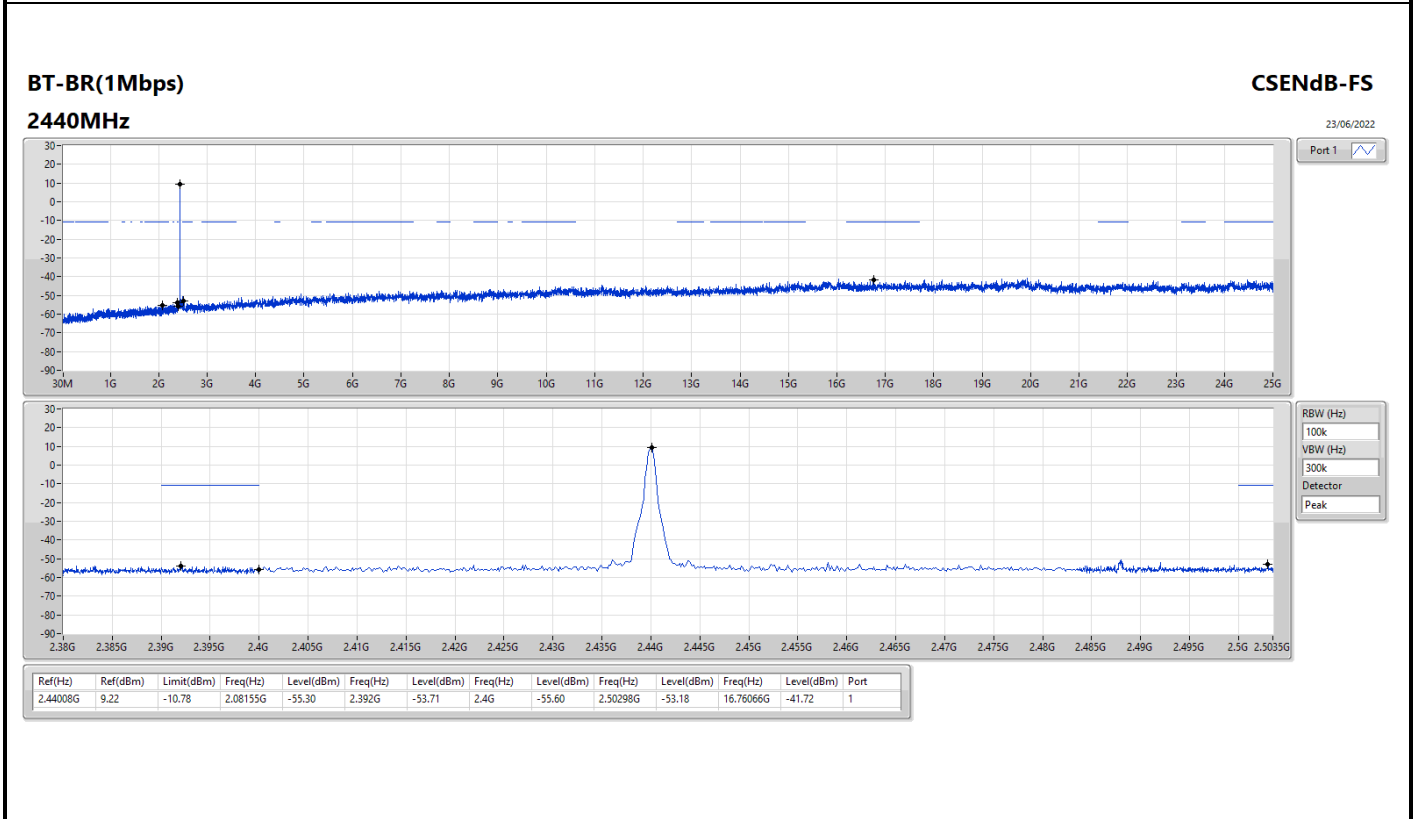
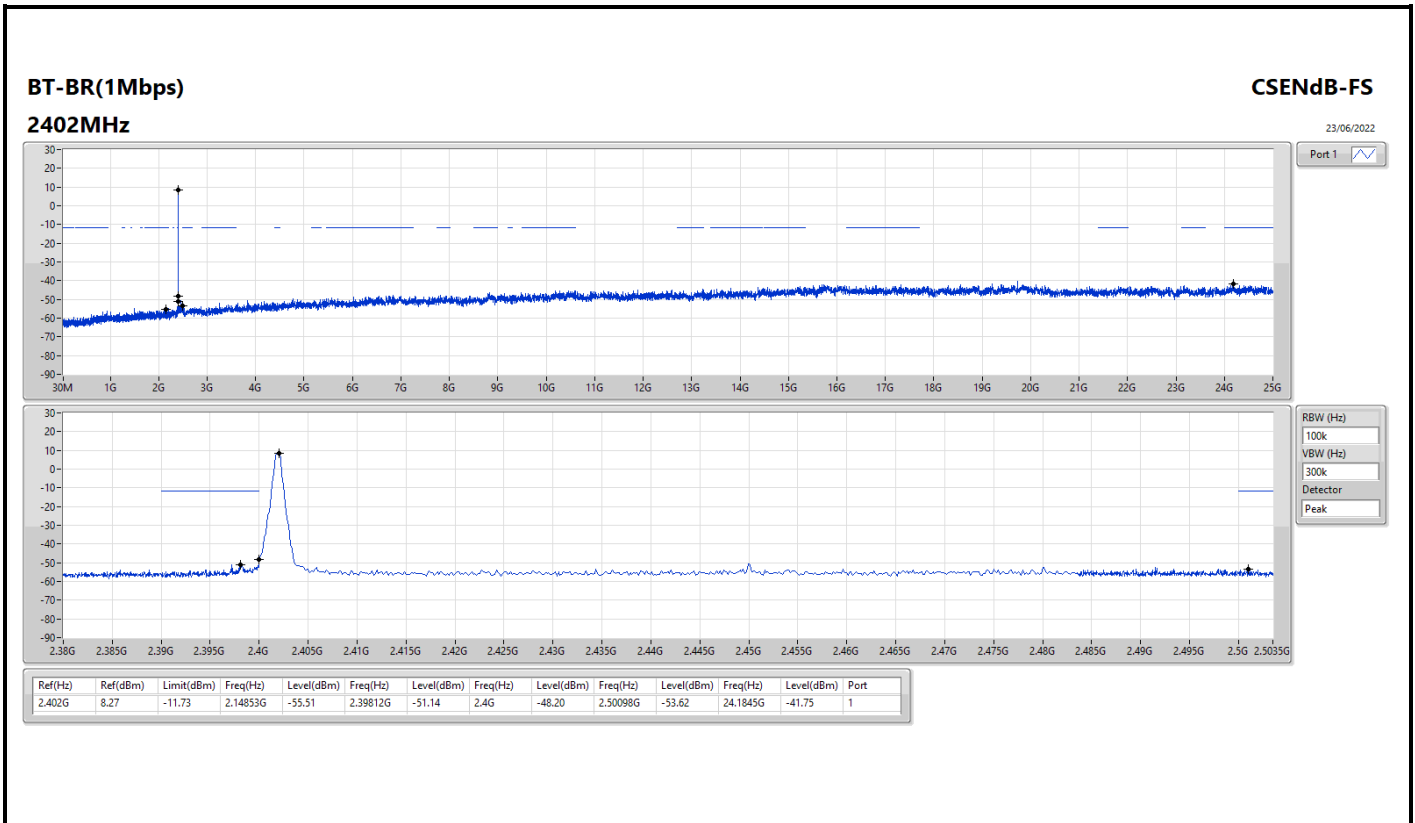
Summary

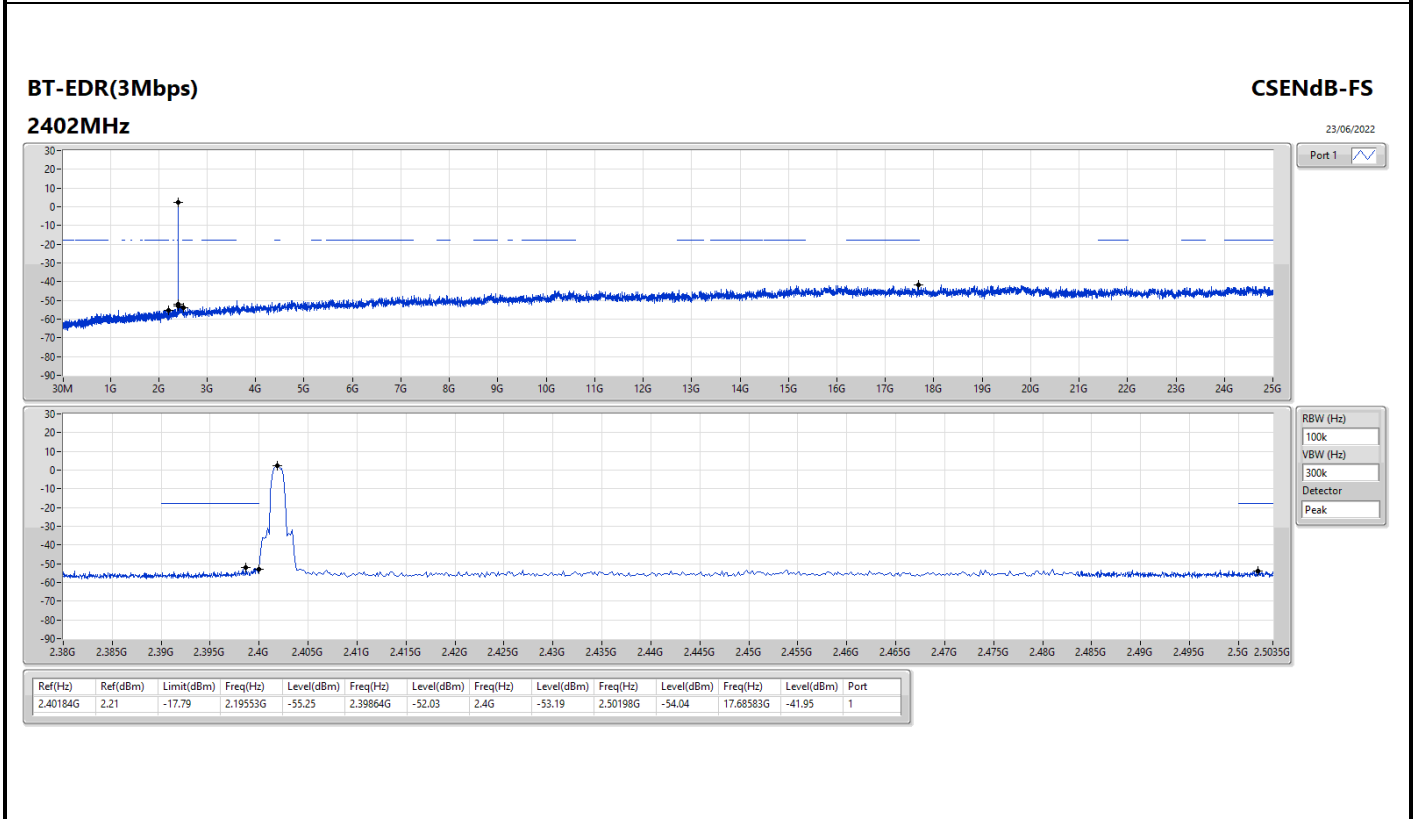
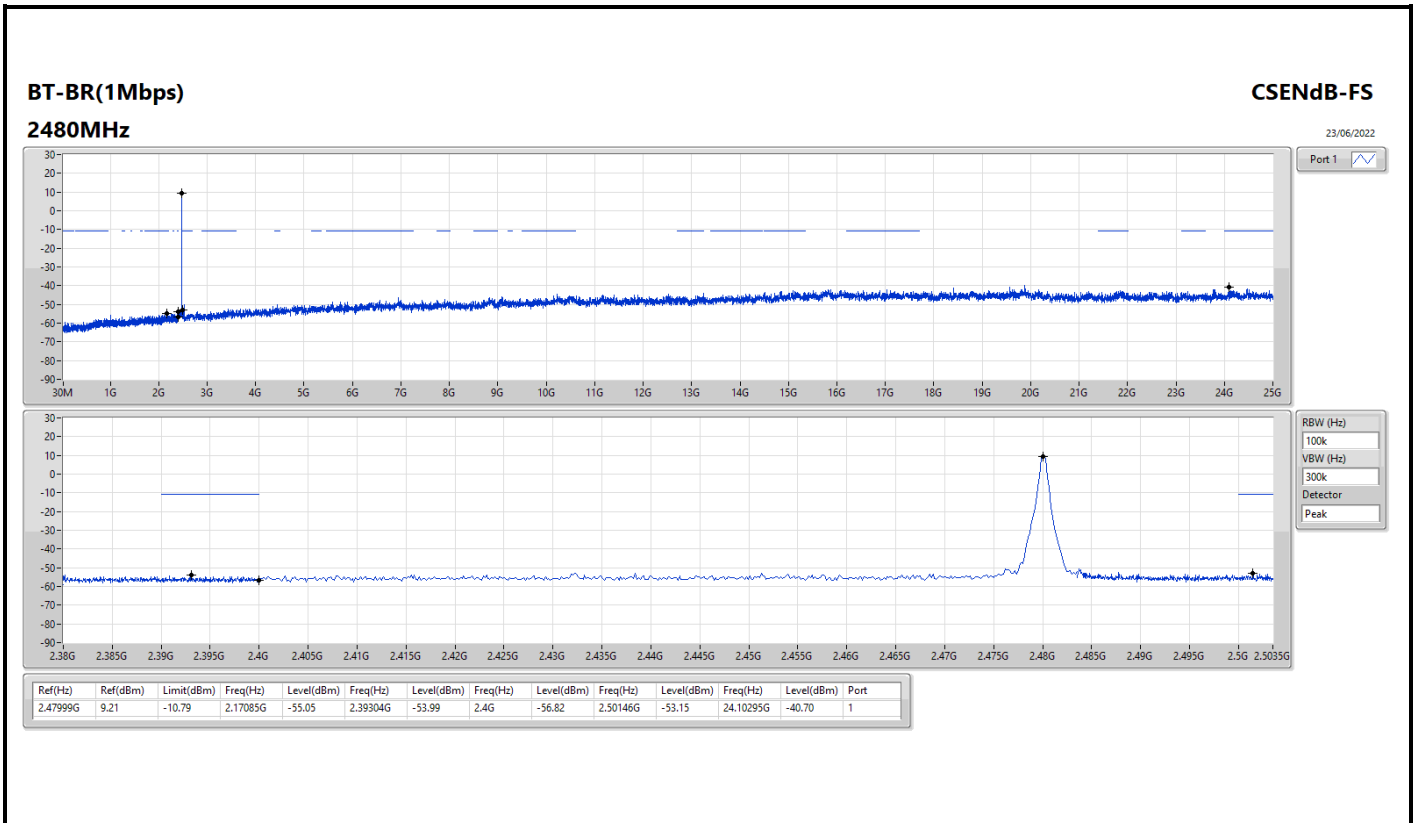
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.402G	8.27	-11.73	2.14853G	-55.51	2.39812G	-51.14	2.4G	-48.20	2.50098G	-53.62	24.1845G	-41.75	1
BT-EDR(3Mbps)	Pass	2.40184G	2.21	-17.79	2.19553G	-55.25	2.39864G	-52.03	2.4G	-53.19	2.50198G	-54.04	17.68583G	-41.95	1

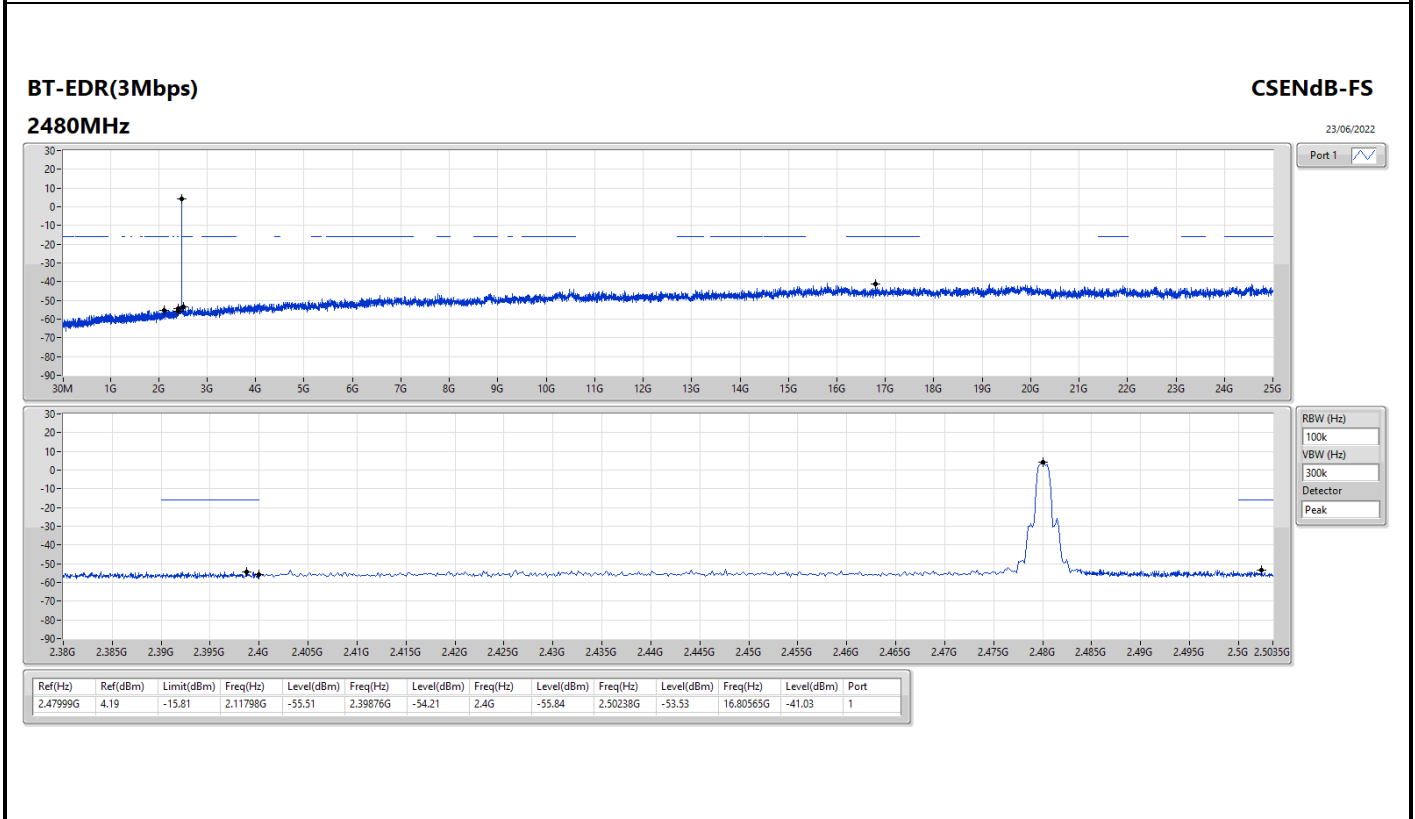
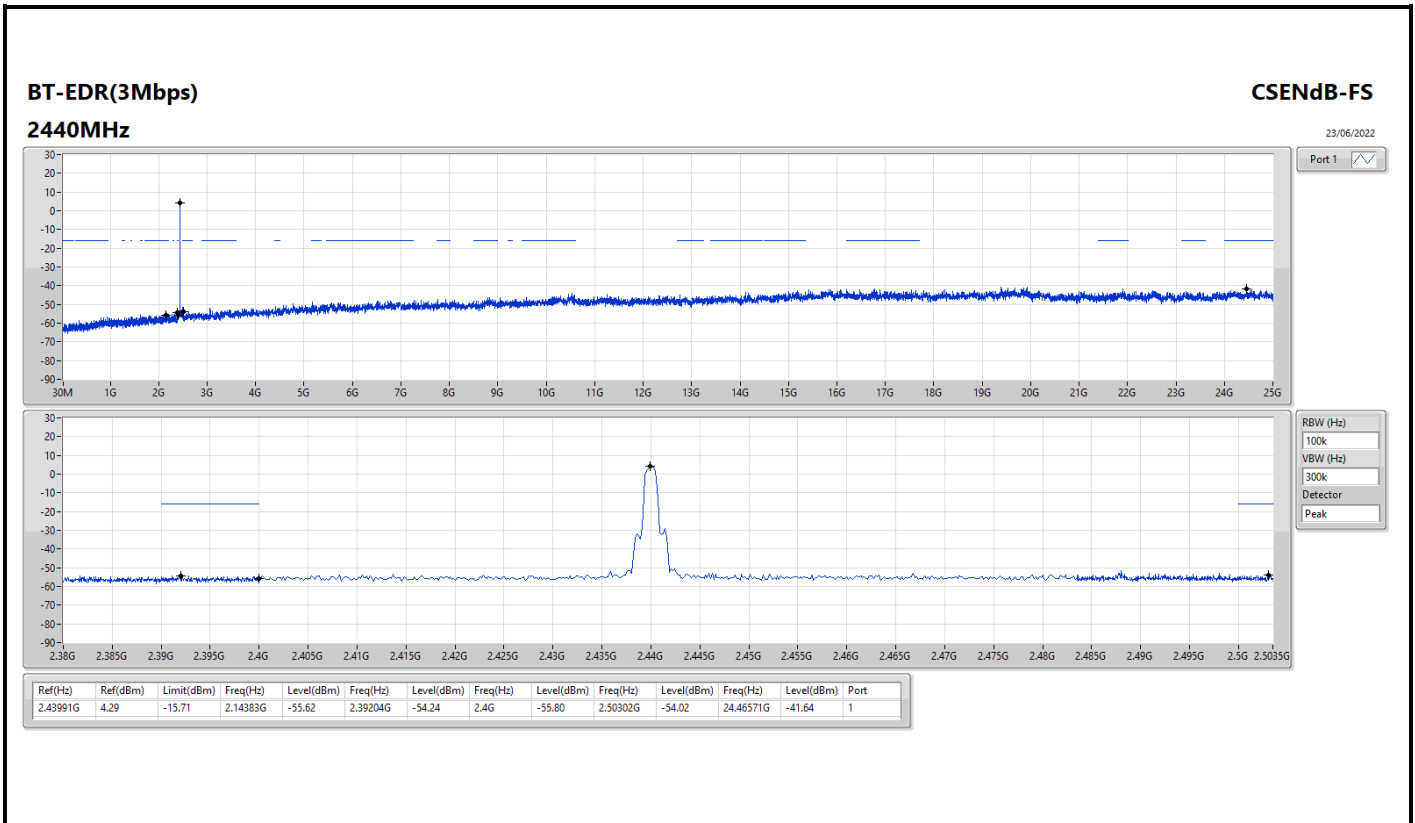


Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	8.27	-11.73	2.14853G	-55.51	2.39812G	-51.14	2.4G	-48.20	2.50098G	-53.62	24.1845G	-41.75	1
2440MHz	Pass	2.44008G	9.22	-10.78	2.08155G	-55.30	2.392G	-53.71	2.4G	-55.60	2.50298G	-53.18	16.76066G	-41.72	1
2480MHz	Pass	2.47999G	9.21	-10.79	2.17085G	-55.05	2.39304G	-53.99	2.4G	-56.82	2.50146G	-53.15	24.10295G	-40.70	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	2.21	-17.79	2.19553G	-55.25	2.39864G	-52.03	2.4G	-53.19	2.50198G	-54.04	17.68583G	-41.95	1
2440MHz	Pass	2.43991G	4.29	-15.71	2.14383G	-55.62	2.39204G	-54.24	2.4G	-55.80	2.50302G	-54.02	24.46571G	-41.64	1
2480MHz	Pass	2.47999G	4.19	-15.81	2.11798G	-55.51	2.39876G	-54.21	2.4G	-55.84	2.50238G	-53.53	16.80565G	-41.03	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)	Pass	PK	159.98M	38.04	43.50	-5.46	3	Vertical	360	1.00	-

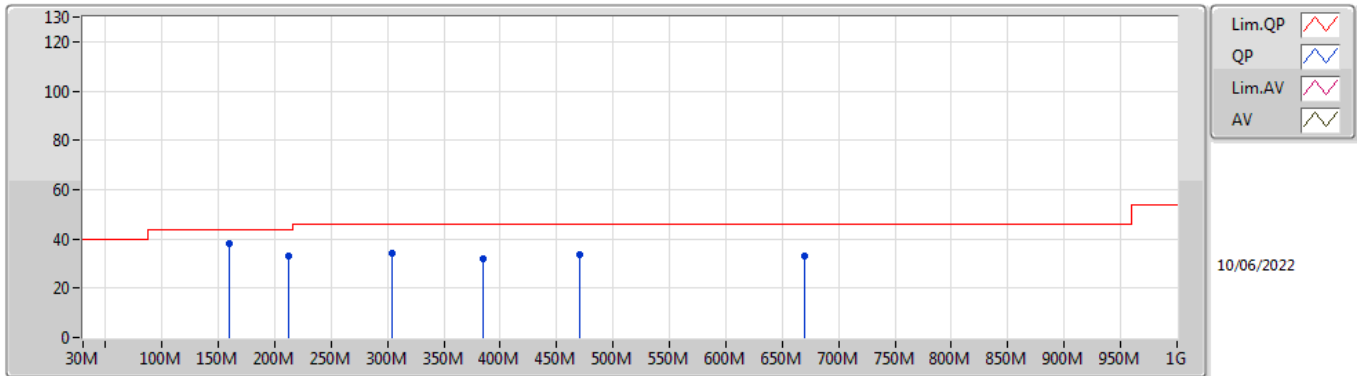


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	159.98M	38.04	43.50	-5.46	3	Vertical	360	1.00	-
2440MHz	Pass	PK	212.36M	33.26	43.50	-10.24	3	Vertical	360	1.00	-
2440MHz	Pass	PK	303.54M	33.99	46.00	-12.01	3	Vertical	360	1.00	-
2440MHz	Pass	PK	385.02M	32.21	46.00	-13.79	3	Vertical	360	1.00	-
2440MHz	Pass	PK	470.38M	33.83	46.00	-12.17	3	Vertical	360	1.00	-
2440MHz	Pass	PK	670.2M	33.26	46.00	-12.74	3	Vertical	360	1.00	-
2440MHz	Pass	PK	167.74M	37.05	43.50	-6.45	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	255.04M	37.00	46.00	-9.00	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	328.76M	34.81	46.00	-11.19	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	470.38M	34.37	46.00	-11.63	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	602.3M	30.58	46.00	-15.42	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	730.34M	35.81	46.00	-10.19	3	Horizontal	0	1.00	-

BT-BR(1Mbps)

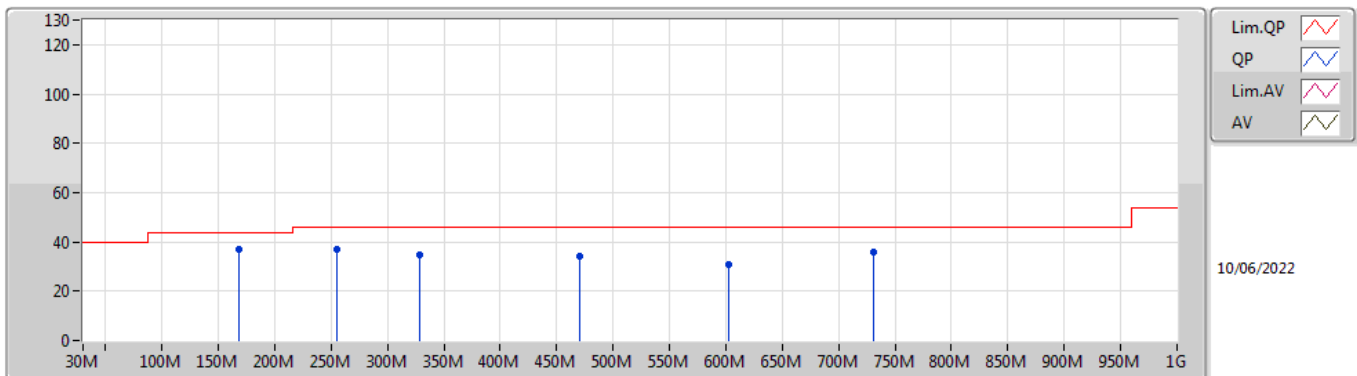
2440MHz_USB



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	159.98M	38.04	43.50	-5.46	-10.52	3	Vertical	360	1.00	-	48.56	15.22	1.78	27.52
PK	212.36M	33.26	43.50	-10.24	-10.95	3	Vertical	360	1.00	-	44.21	14.21	2.09	27.25
PK	303.54M	33.99	46.00	-12.01	-6.09	3	Vertical	360	1.00	-	40.08	18.47	2.52	27.08
PK	385.02M	32.21	46.00	-13.79	-4.56	3	Vertical	360	1.00	-	36.77	20.26	2.83	27.65
PK	470.38M	33.83	46.00	-12.17	-2.51	3	Vertical	360	1.00	-	36.34	22.50	3.17	28.18
PK	670.2M	33.26	46.00	-12.74	-0.29	3	Vertical	360	1.00	-	33.55	24.19	3.74	28.22

BT-BR(1Mbps)

2440MHz_USB



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	167.74M	37.05	43.50	-6.45	-10.70	3	Horizontal	0	1.00	-	47.75	14.97	1.83	27.50
PK	255.04M	37.00	46.00	-9.00	-6.57	3	Horizontal	0	1.00	-	43.57	18.16	2.29	27.02
PK	328.76M	34.81	46.00	-11.19	-5.73	3	Horizontal	0	1.00	-	40.54	18.86	2.63	27.22
PK	470.38M	34.37	46.00	-11.63	-2.51	3	Horizontal	0	1.00	-	36.88	22.50	3.17	28.18
PK	602.3M	30.58	46.00	-15.42	-0.88	3	Horizontal	0	1.00	-	31.46	23.94	3.60	28.42
PK	730.34M	35.81	46.00	-10.19	0.45	3	Horizontal	0	1.00	-	35.36	24.68	3.91	28.14



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	2.4924G	60.39	74.00	-13.61	3	Vertical	140	2.40	-
BT-EDR(3Mbps)	Pass	PK	2.5G	60.51	74.00	-13.49	3	Horizontal	329	1.03	-



Result

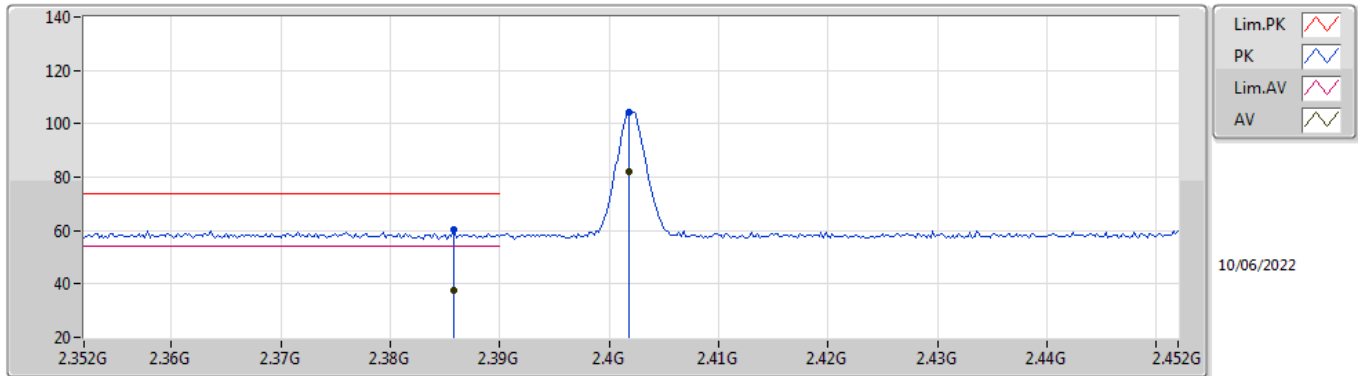
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3858G	37.62	54.00	-16.38	3	Vertical	137	2.66	-
2402MHz	Pass	AV	2.4018G	81.96	Inf	-Inf	3	Vertical	137	2.66	-
2402MHz	Pass	PK	2.3858G	60.12	74.00	-13.88	3	Vertical	137	2.66	-
2402MHz	Pass	PK	2.4018G	104.46	Inf	-Inf	3	Vertical	137	2.66	-
2402MHz	Pass	AV	2.377G	37.05	54.00	-16.95	3	Horizontal	162	1.00	-
2402MHz	Pass	AV	2.402G	85.73	Inf	-Inf	3	Horizontal	162	1.00	-
2402MHz	Pass	PK	2.377G	59.55	74.00	-14.45	3	Horizontal	162	1.00	-
2402MHz	Pass	PK	2.402G	108.23	Inf	-Inf	3	Horizontal	162	1.00	-
2402MHz	Pass	AV	4.8042G	27.65	54.00	-26.35	3	Vertical	203	1.00	-
2402MHz	Pass	PK	4.8042G	50.15	74.00	-23.85	3	Vertical	203	1.00	-
2402MHz	Pass	AV	4.80371G	30.42	54.00	-23.58	3	Horizontal	338	1.23	-
2402MHz	Pass	PK	4.80371G	52.92	74.00	-21.08	3	Horizontal	338	1.23	-
2440MHz	Pass	AV	2.3432G	37.18	54.00	-16.82	3	Vertical	140	2.40	-
2440MHz	Pass	AV	2.44G	81.68	Inf	-Inf	3	Vertical	140	2.40	-
2440MHz	Pass	AV	2.4924G	37.89	54.00	-16.11	3	Vertical	140	2.40	-
2440MHz	Pass	PK	2.3432G	59.68	74.00	-14.32	3	Vertical	140	2.40	-
2440MHz	Pass	PK	2.44G	104.18	Inf	-Inf	3	Vertical	140	2.40	-
2440MHz	Pass	PK	2.4924G	60.39	74.00	-13.61	3	Vertical	140	2.40	-
2440MHz	Pass	AV	2.3816G	37.48	54.00	-16.52	3	Horizontal	330	1.02	-
2440MHz	Pass	AV	2.44G	86.13	Inf	-Inf	3	Horizontal	330	1.02	-
2440MHz	Pass	AV	2.4992G	37.87	54.00	-16.13	3	Horizontal	330	1.02	-
2440MHz	Pass	PK	2.3816G	59.98	74.00	-14.02	3	Horizontal	330	1.02	-
2440MHz	Pass	PK	2.44G	108.63	Inf	-Inf	3	Horizontal	330	1.02	-
2440MHz	Pass	PK	2.4992G	60.37	74.00	-13.63	3	Horizontal	330	1.02	-
2440MHz	Pass	AV	4.87971G	28.64	54.00	-25.36	3	Vertical	204	1.00	-
2440MHz	Pass	AV	7.31959G	30.87	54.00	-23.13	3	Vertical	24	1.18	-
2440MHz	Pass	PK	4.87971G	51.14	74.00	-22.86	3	Vertical	204	1.00	-
2440MHz	Pass	PK	7.31959G	53.37	74.00	-20.63	3	Vertical	24	1.18	-
2440MHz	Pass	AV	4.87998G	31.79	54.00	-22.21	3	Horizontal	341	1.00	-
2440MHz	Pass	AV	7.32038G	35.20	54.00	-18.80	3	Horizontal	346	1.00	-
2440MHz	Pass	PK	4.87959G	54.29	74.00	-19.71	3	Horizontal	341	1.00	-
2440MHz	Pass	PK	7.32038G	57.70	74.00	-16.30	3	Horizontal	346	1.00	-
2480MHz	Pass	AV	2.48G	82.33	Inf	-Inf	3	Vertical	138	2.63	-
2480MHz	Pass	AV	2.4842G	37.72	54.00	-16.28	3	Vertical	138	2.63	-
2480MHz	Pass	PK	2.48G	104.83	Inf	-Inf	3	Vertical	138	2.63	-
2480MHz	Pass	PK	2.4842G	60.22	74.00	-13.78	3	Vertical	138	2.63	-
2480MHz	Pass	AV	2.4798G	85.98	Inf	-Inf	3	Horizontal	52	1.50	-
2480MHz	Pass	AV	2.4835G	37.52	54.00	-16.48	3	Horizontal	52	1.50	-
2480MHz	Pass	PK	2.4798G	108.48	Inf	-Inf	3	Horizontal	52	1.50	-
2480MHz	Pass	PK	2.4835G	60.02	74.00	-13.98	3	Horizontal	52	1.50	-
2480MHz	Pass	AV	4.95969G	29.02	54.00	-24.98	3	Vertical	196	1.10	-
2480MHz	Pass	AV	7.44005G	30.90	54.00	-23.10	3	Vertical	25	1.15	-
2480MHz	Pass	PK	4.95969G	51.52	74.00	-22.48	3	Vertical	196	1.10	-
2480MHz	Pass	PK	7.44005G	53.40	74.00	-20.60	3	Vertical	25	1.15	-
2480MHz	Pass	AV	4.9596G	31.54	54.00	-22.46	3	Horizontal	343	1.22	-
2480MHz	Pass	AV	7.43955G	34.48	54.00	-19.52	3	Horizontal	26	1.18	-
2480MHz	Pass	PK	4.9596G	54.04	74.00	-19.96	3	Horizontal	343	1.22	-
2480MHz	Pass	PK	7.43955G	56.98	74.00	-17.02	3	Horizontal	26	1.18	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3734G	37.65	54.00	-16.35	3	Vertical	239	2.81	-
2402MHz	Pass	AV	2.402G	71.77	Inf	-Inf	3	Vertical	239	2.81	-
2402MHz	Pass	PK	2.3734G	60.15	74.00	-13.85	3	Vertical	239	2.81	-
2402MHz	Pass	PK	2.402G	94.27	Inf	-Inf	3	Vertical	239	2.81	-
2402MHz	Pass	AV	2.3842G	37.22	54.00	-16.78	3	Horizontal	160	1.00	-
2402MHz	Pass	AV	2.4018G	81.23	Inf	-Inf	3	Horizontal	160	1.00	-
2402MHz	Pass	PK	2.3842G	59.72	74.00	-14.28	3	Horizontal	160	1.00	-
2402MHz	Pass	PK	2.4018G	103.73	Inf	-Inf	3	Horizontal	160	1.00	-
2402MHz	Pass	AV	4.80434G	27.40	54.00	-26.60	3	Vertical	96	1.01	-
2402MHz	Pass	PK	4.80434G	49.90	74.00	-24.10	3	Vertical	96	1.01	-
2402MHz	Pass	AV	4.80444G	25.50	54.00	-28.50	3	Horizontal	341	1.20	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2402MHz	Pass	PK	4.80444G	48.00	74.00	-26.00	3	Horizontal	341	1.20	-
2440MHz	Pass	AV	2.374G	37.24	54.00	-16.76	3	Vertical	140	2.39	-
2440MHz	Pass	AV	2.44G	77.04	Inf	-Inf	3	Vertical	140	2.39	-
2440MHz	Pass	AV	2.4924G	37.47	54.00	-16.53	3	Vertical	140	2.39	-
2440MHz	Pass	PK	2.374G	59.74	74.00	-14.26	3	Vertical	140	2.39	-
2440MHz	Pass	PK	2.44G	99.54	Inf	-Inf	3	Vertical	140	2.39	-
2440MHz	Pass	PK	2.4924G	59.97	74.00	-14.03	3	Vertical	140	2.39	-
2440MHz	Pass	AV	2.3736G	37.60	54.00	-16.40	3	Horizontal	329	1.03	-
2440MHz	Pass	AV	2.4396G	81.59	Inf	-Inf	3	Horizontal	329	1.03	-
2440MHz	Pass	AV	2.5G	38.01	54.00	-15.99	3	Horizontal	329	1.03	-
2440MHz	Pass	PK	2.3736G	60.10	74.00	-13.90	3	Horizontal	329	1.03	-
2440MHz	Pass	PK	2.4396G	104.09	Inf	-Inf	3	Horizontal	329	1.03	-
2440MHz	Pass	PK	2.5G	60.51	74.00	-13.49	3	Horizontal	329	1.03	-
2440MHz	Pass	AV	4.87966G	25.32	54.00	-28.68	3	Vertical	228.6	1.00	-
2440MHz	Pass	AV	7.3196G	27.98	54.00	-26.02	3	Vertical	34	1.50	-
2440MHz	Pass	PK	4.87966G	47.82	74.00	-26.18	3	Vertical	228.6	1.00	-
2440MHz	Pass	PK	7.3196G	50.48	74.00	-23.52	3	Vertical	34	1.50	-
2440MHz	Pass	AV	4.87674G	25.92	54.00	-28.08	3	Horizontal	28	1.22	-
2440MHz	Pass	AV	7.323G	30.18	54.00	-23.82	3	Horizontal	133	1.08	-
2440MHz	Pass	PK	4.87674G	48.42	74.00	-25.58	3	Horizontal	28	1.22	-
2440MHz	Pass	PK	7.323G	52.68	74.00	-21.32	3	Horizontal	133	1.08	-
2480MHz	Pass	AV	2.4798G	78.18	Inf	-Inf	3	Vertical	138	2.61	-
2480MHz	Pass	AV	2.4962G	37.52	54.00	-16.48	3	Vertical	138	2.61	-
2480MHz	Pass	PK	2.4798G	100.68	Inf	-Inf	3	Vertical	138	2.61	-
2480MHz	Pass	PK	2.4962G	60.02	74.00	-13.98	3	Vertical	138	2.61	-
2480MHz	Pass	AV	2.48G	81.71	Inf	-Inf	3	Horizontal	52	1.50	-
2480MHz	Pass	AV	2.4835G	37.05	54.00	-16.95	3	Horizontal	52	1.50	-
2480MHz	Pass	PK	2.48G	104.21	Inf	-Inf	3	Horizontal	52	1.50	-
2480MHz	Pass	PK	2.4835G	59.55	74.00	-14.45	3	Horizontal	52	1.50	-
2480MHz	Pass	AV	4.9595G	27.78	54.00	-26.22	3	Vertical	116	1.35	-
2480MHz	Pass	AV	7.44143G	27.60	54.00	-26.40	3	Vertical	249	1.50	-
2480MHz	Pass	PK	4.9595G	50.28	74.00	-23.72	3	Vertical	116	1.35	-
2480MHz	Pass	PK	7.44143G	50.10	74.00	-23.90	3	Vertical	249	1.50	-
2480MHz	Pass	AV	4.95971G	24.96	54.00	-29.04	3	Horizontal	160	1.50	-
2480MHz	Pass	AV	7.44053G	28.86	54.00	-25.14	3	Horizontal	16	1.03	-
2480MHz	Pass	PK	4.95971G	47.46	74.00	-26.54	3	Horizontal	160	1.50	-
2480MHz	Pass	PK	7.44053G	51.36	74.00	-22.64	3	Horizontal	16	1.03	-

BT-BR(1Mbps)

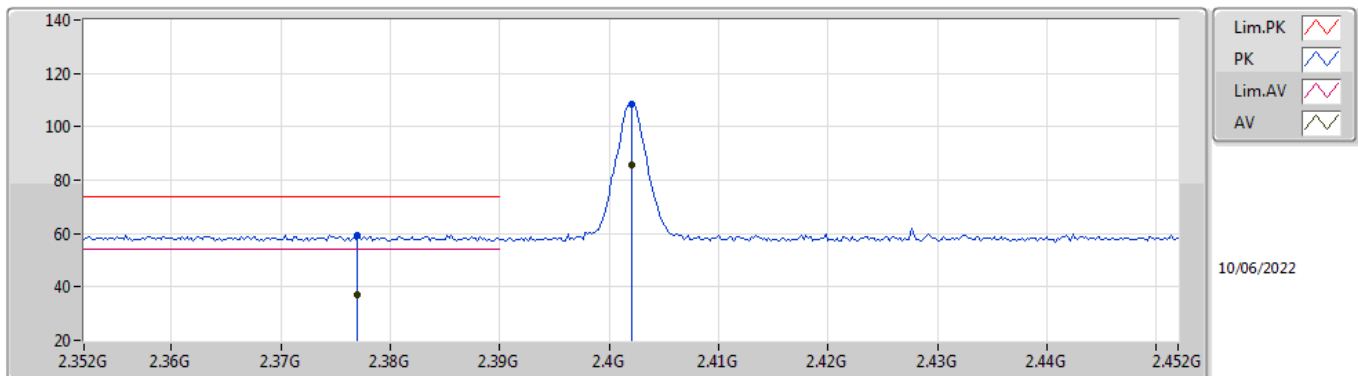
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3858G	37.62	54.00	-16.38	35.55	3	Vertical	137	2.66	-	2.07	27.27	8.28	-
AV	2.4018G	81.96	Inf	-Inf	35.60	3	Vertical	137	2.66	-	46.36	27.31	8.29	-
PK	2.3858G	60.12	74.00	-13.88	35.55	3	Vertical	137	2.66	-	24.57	27.27	8.28	-
PK	2.4018G	104.46	Inf	-Inf	35.60	3	Vertical	137	2.66	-	68.86	27.31	8.29	-

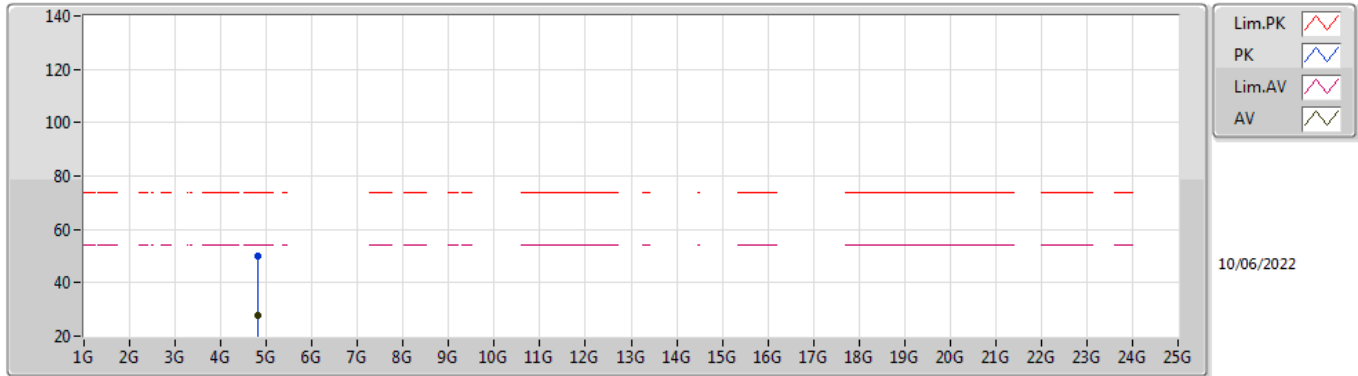
BT-BR(1Mbps)

2402MHz_TX



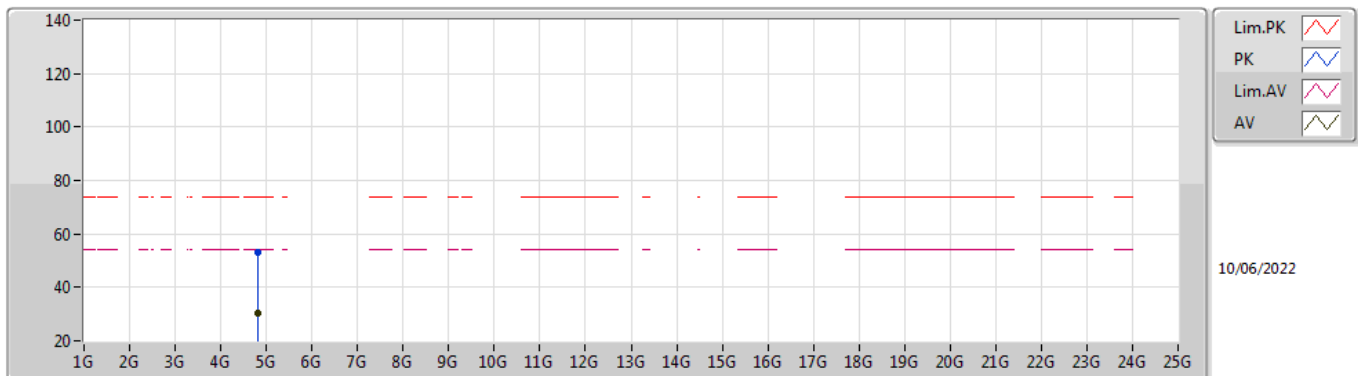
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.377G	37.05	54.00	-16.95	35.52	3	Horizontal	162	1.00	-	1.53	27.25	8.27	-
AV	2.402G	85.73	Inf	-Inf	35.60	3	Horizontal	162	1.00	-	50.13	27.31	8.29	-
PK	2.377G	59.55	74.00	-14.45	35.52	3	Horizontal	162	1.00	-	24.03	27.25	8.27	-
PK	2.402G	108.23	Inf	-Inf	35.60	3	Horizontal	162	1.00	-	72.63	27.31	8.29	-

BT-BR(1Mbps)
2402MHz_TX



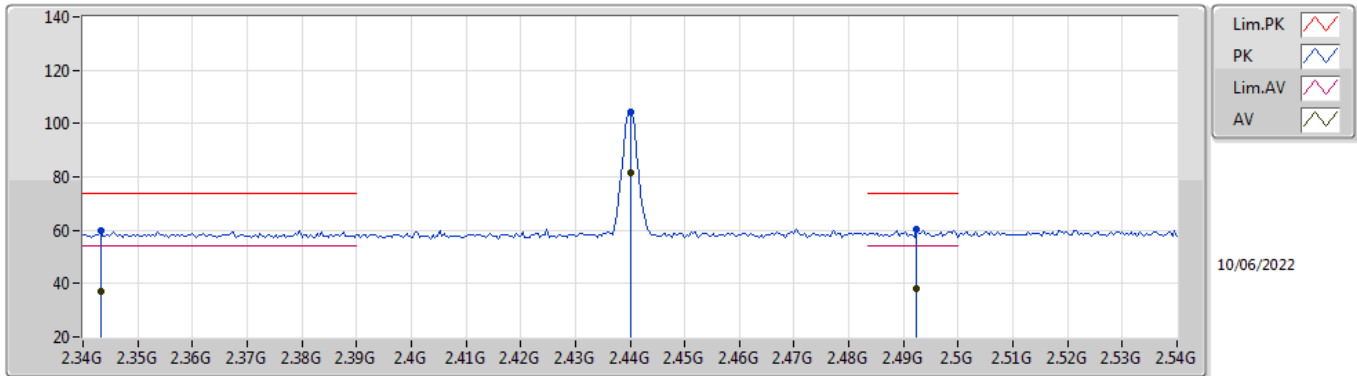
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8042G	27.65	54.00	-26.35	7.99	3	Vertical	203	1.00	-	19.66	32.51	9.67	34.19
PK	4.8042G	50.15	74.00	-23.85	7.99	3	Vertical	203	1.00	-	42.16	32.51	9.67	34.19

BT-BR(1Mbps)
2402MHz_TX



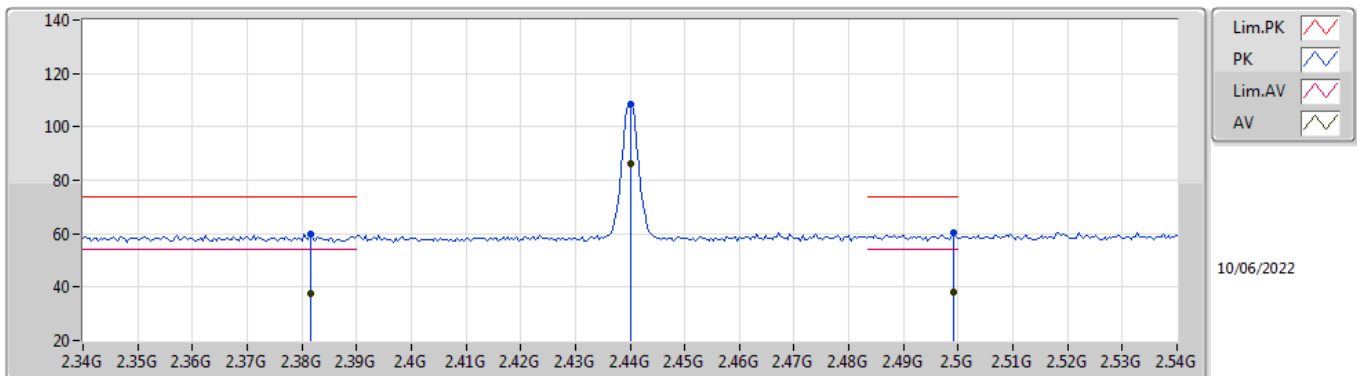
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80371G	30.42	54.00	-23.58	7.99	3	Horizontal	338	1.23	-	22.43	32.51	9.67	34.19
PK	4.80371G	52.92	74.00	-21.08	7.99	3	Horizontal	338	1.23	-	44.93	32.51	9.67	34.19

BT-BR(1Mbps)
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3432G	37.18	54.00	-16.82	35.42	3	Vertical	140	2.40	-	1.76	27.17	8.25	-
AV	2.44G	81.68	Inf	-Inf	35.78	3	Vertical	140	2.40	-	45.90	27.46	8.32	-
AV	2.4924G	37.89	54.00	-16.11	36.10	3	Vertical	140	2.40	-	1.79	27.75	8.35	-
PK	2.3432G	59.68	74.00	-14.32	35.42	3	Vertical	140	2.40	-	24.26	27.17	8.25	-
PK	2.44G	104.18	Inf	-Inf	35.78	3	Vertical	140	2.40	-	68.40	27.46	8.32	-
PK	2.4924G	60.39	74.00	-13.61	36.10	3	Vertical	140	2.40	-	24.29	27.75	8.35	-

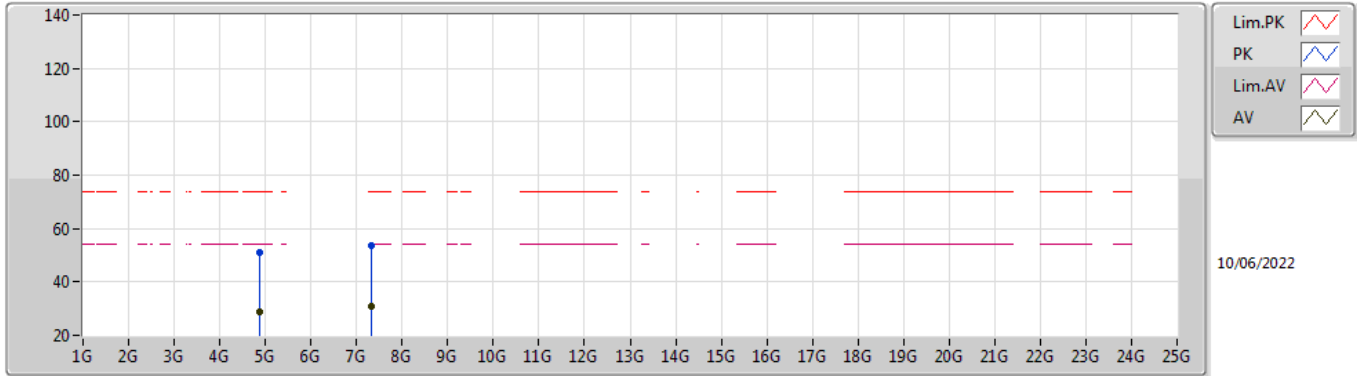
BT-BR(1Mbps)
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3816G	37.48	54.00	-16.52	35.54	3	Horizontal	330	1.02	-	1.94	27.26	8.28	-
AV	2.44G	86.13	Inf	-Inf	35.78	3	Horizontal	330	1.02	-	50.35	27.46	8.32	-
AV	2.4992G	37.87	54.00	-16.13	36.15	3	Horizontal	330	1.02	-	1.72	27.80	8.35	-
PK	2.3816G	59.98	74.00	-14.02	35.54	3	Horizontal	330	1.02	-	24.44	27.26	8.28	-
PK	2.44G	108.63	Inf	-Inf	35.78	3	Horizontal	330	1.02	-	72.85	27.46	8.32	-
PK	2.4992G	60.37	74.00	-13.63	36.15	3	Horizontal	330	1.02	-	24.22	27.80	8.35	-

BT-BR(1Mbps)

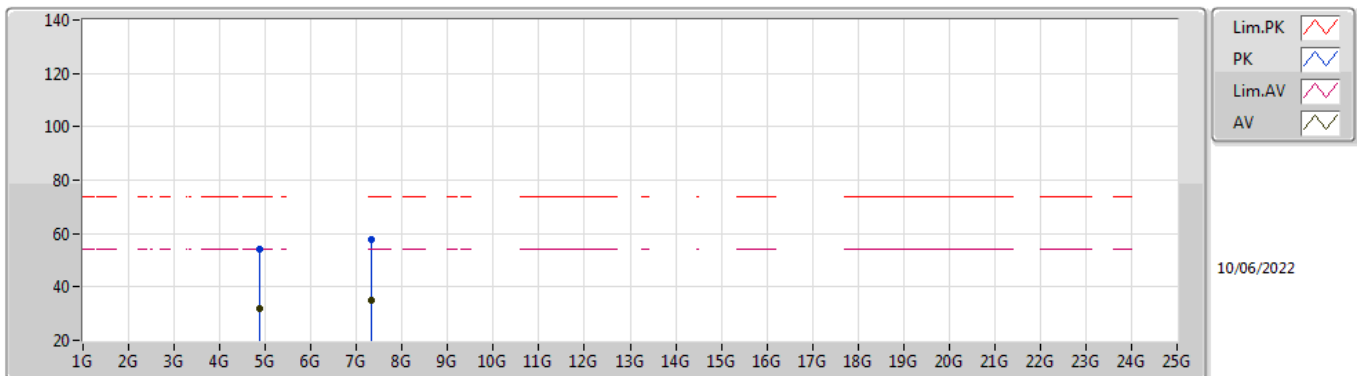
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87971G	28.64	54.00	-25.36	8.20	3	Vertical	204	1.00	-	20.44	32.66	9.70	34.16
AV	7.31959G	30.87	54.00	-23.13	13.46	3	Vertical	24	1.18	-	17.41	36.64	11.32	34.50
PK	4.87971G	51.14	74.00	-22.86	8.20	3	Vertical	204	1.00	-	42.94	32.66	9.70	34.16
PK	7.31959G	53.37	74.00	-20.63	13.46	3	Vertical	24	1.18	-	39.91	36.64	11.32	34.50

BT-BR(1Mbps)

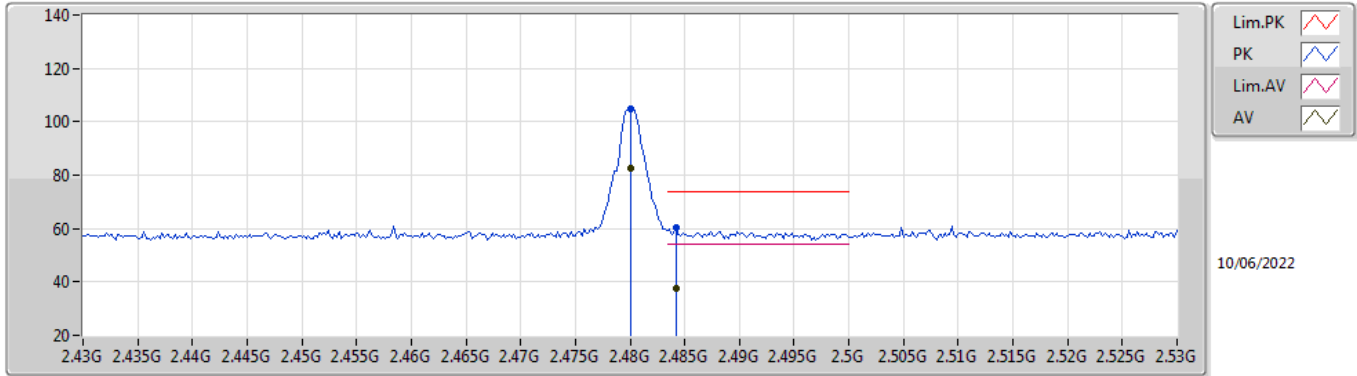
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87998G	31.79	54.00	-22.21	8.20	3	Horizontal	341	1.00	-	23.59	32.66	9.70	34.16
AV	7.32038G	35.20	54.00	-18.80	13.46	3	Horizontal	346	1.00	-	21.74	36.64	11.32	34.50
PK	4.87959G	54.29	74.00	-19.71	8.20	3	Horizontal	341	1.00	-	46.09	32.66	9.70	34.16
PK	7.32038G	57.70	74.00	-16.30	13.46	3	Horizontal	346	1.00	-	44.24	36.64	11.32	34.50

BT-BR(1Mbps)

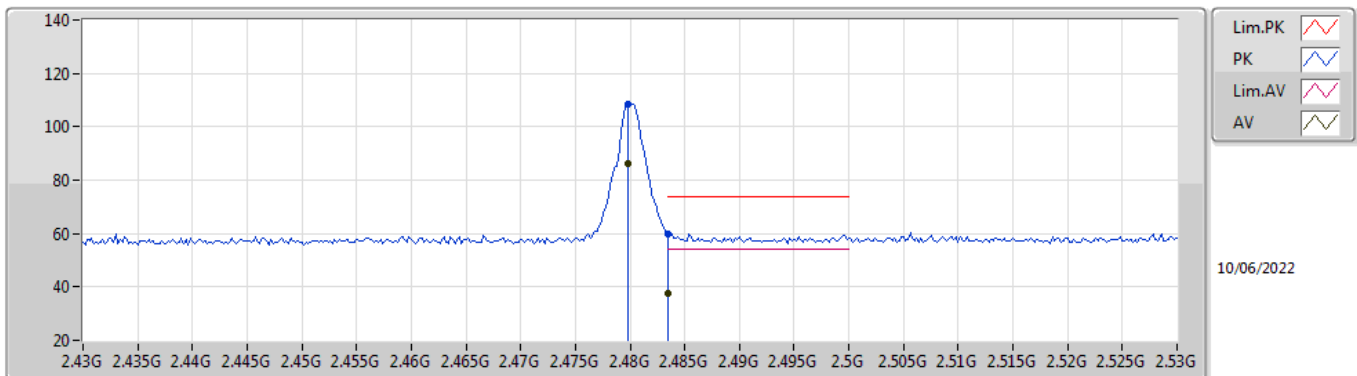
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	82.33	Inf	-Inf	36.02	3	Vertical	138	2.63	-	46.31	27.68	8.34	-
AV	2.4842G	37.72	54.00	-16.28	36.05	3	Vertical	138	2.63	-	1.67	27.71	8.34	-
PK	2.48G	104.83	Inf	-Inf	36.02	3	Vertical	138	2.63	-	68.81	27.68	8.34	-
PK	2.4842G	60.22	74.00	-13.78	36.05	3	Vertical	138	2.63	-	24.17	27.71	8.34	-

BT-BR(1Mbps)

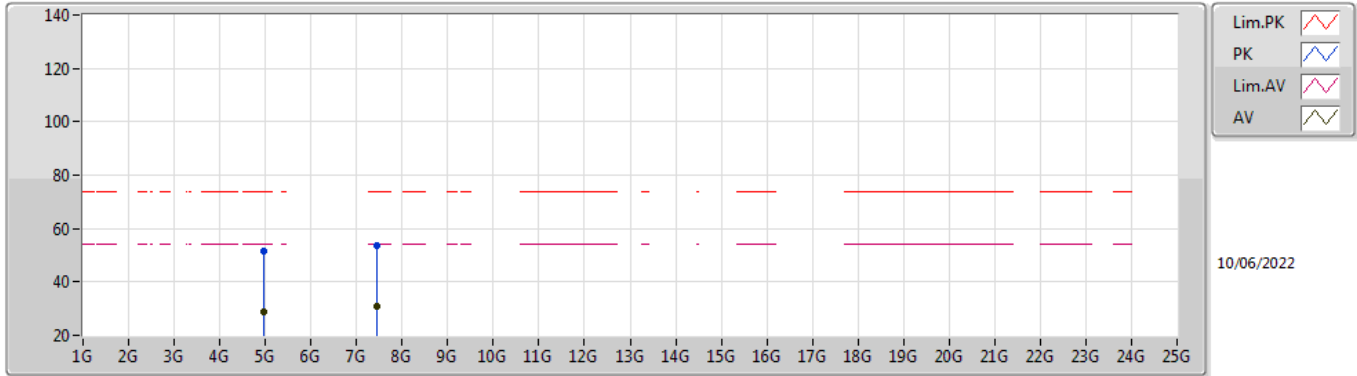
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	85.98	Inf	-Inf	36.02	3	Horizontal	52	1.50	-	49.96	27.68	8.34	-
AV	2.4835G	37.52	54.00	-16.48	36.04	3	Horizontal	52	1.50	-	1.48	27.70	8.34	-
PK	2.4798G	108.48	Inf	-Inf	36.02	3	Horizontal	52	1.50	-	72.46	27.68	8.34	-
PK	2.4835G	60.02	74.00	-13.98	36.04	3	Horizontal	52	1.50	-	23.98	27.70	8.34	-

BT-BR(1Mbps)

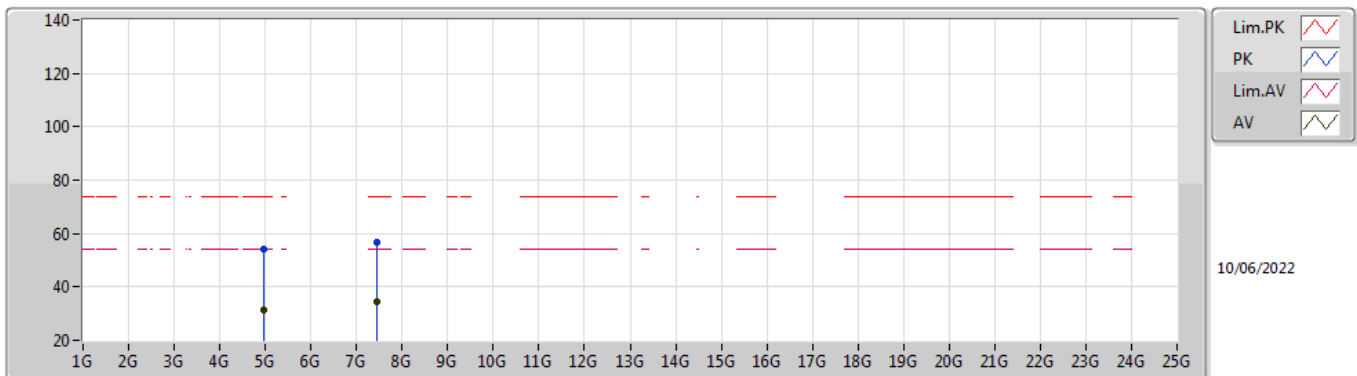
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95969G	29.02	54.00	-24.98	8.55	3	Vertical	196	1.10	-	20.47	32.94	9.73	34.12
AV	7.44005G	30.90	54.00	-23.10	13.05	3	Vertical	25	1.15	-	17.85	36.24	11.30	34.49
PK	4.95969G	51.52	74.00	-22.48	8.55	3	Vertical	196	1.10	-	42.97	32.94	9.73	34.12
PK	7.44005G	53.40	74.00	-20.60	13.05	3	Vertical	25	1.15	-	40.35	36.24	11.30	34.49

BT-BR(1Mbps)

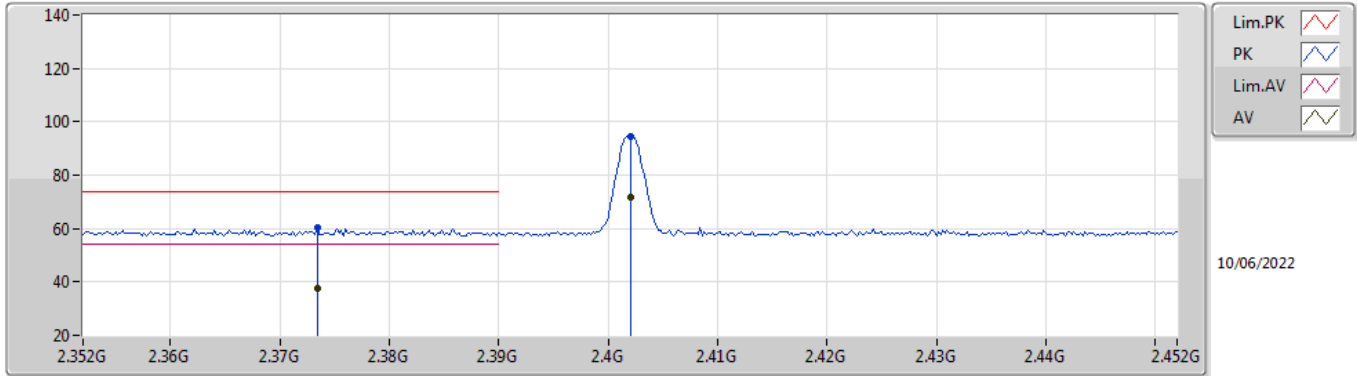
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95966G	31.54	54.00	-22.46	8.55	3	Horizontal	343	1.22	-	22.99	32.94	9.73	34.12
AV	7.43955G	34.48	54.00	-19.52	13.05	3	Horizontal	26	1.18	-	21.43	36.24	11.30	34.49
PK	4.95966G	54.04	74.00	-19.96	8.55	3	Horizontal	343	1.22	-	45.49	32.94	9.73	34.12
PK	7.43955G	56.98	74.00	-17.02	13.05	3	Horizontal	26	1.18	-	43.93	36.24	11.30	34.49

BT-EDR(3Mbps)

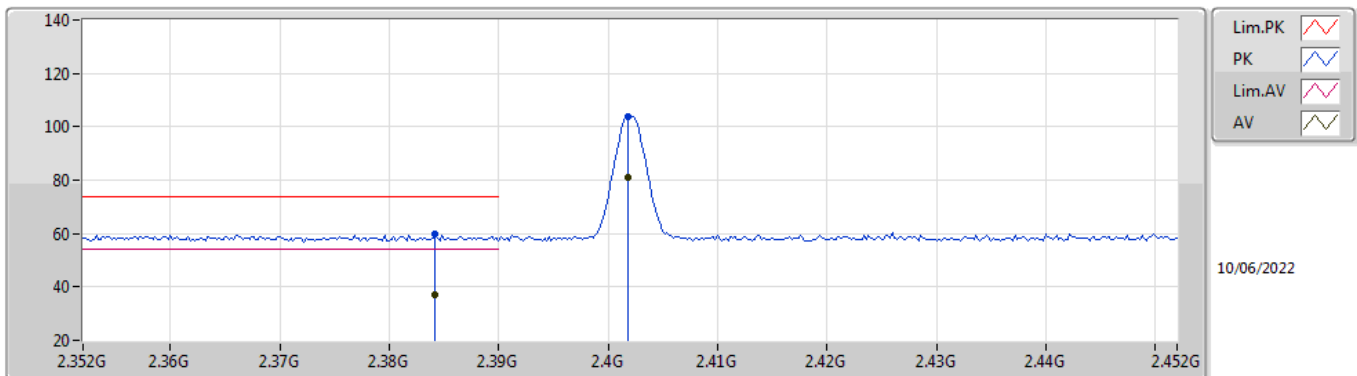
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3734G	37.65	54.00	-16.35	35.52	3	Vertical	239	2.81	-	2.13	27.25	8.27	-
AV	2.402G	71.77	Inf	-Inf	35.60	3	Vertical	239	2.81	-	36.17	27.31	8.29	-
PK	2.3734G	60.15	74.00	-13.85	35.52	3	Vertical	239	2.81	-	24.63	27.25	8.27	-
PK	2.402G	94.27	Inf	-Inf	35.60	3	Vertical	239	2.81	-	58.67	27.31	8.29	-

BT-EDR(3Mbps)

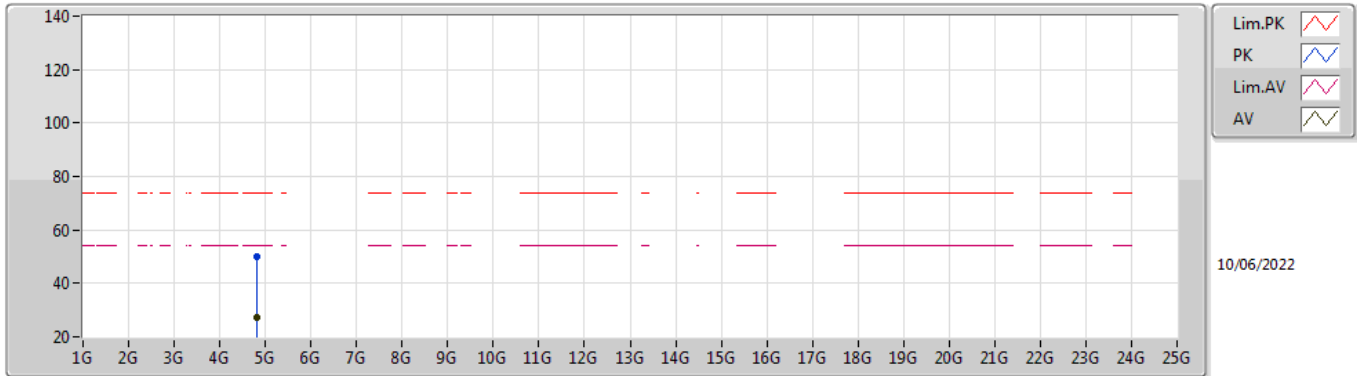
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3842G	37.22	54.00	-16.78	35.55	3	Horizontal	160	1.00	-	1.67	27.27	8.28	-
AV	2.4018G	81.23	Inf	-Inf	35.60	3	Horizontal	160	1.00	-	45.63	27.31	8.29	-
PK	2.3842G	59.72	74.00	-14.28	35.55	3	Horizontal	160	1.00	-	24.17	27.27	8.28	-
PK	2.4018G	103.73	Inf	-Inf	35.60	3	Horizontal	160	1.00	-	68.13	27.31	8.29	-

BT-EDR(3Mbps)

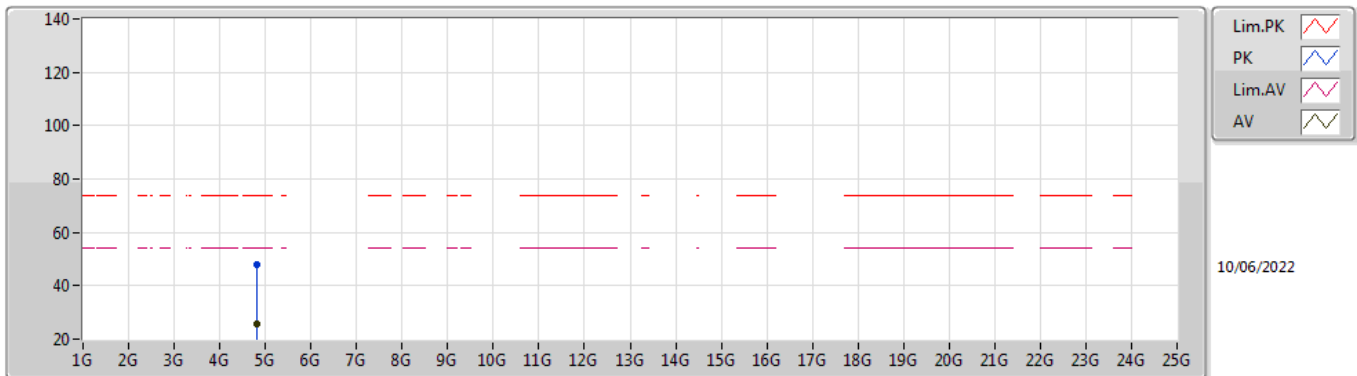
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80434G	27.40	54.00	-26.60	7.99	3	Vertical	96	1.01	-	19.41	32.51	9.67	34.19
PK	4.80434G	49.90	74.00	-24.10	7.99	3	Vertical	96	1.01	-	41.91	32.51	9.67	34.19

BT-EDR(3Mbps)

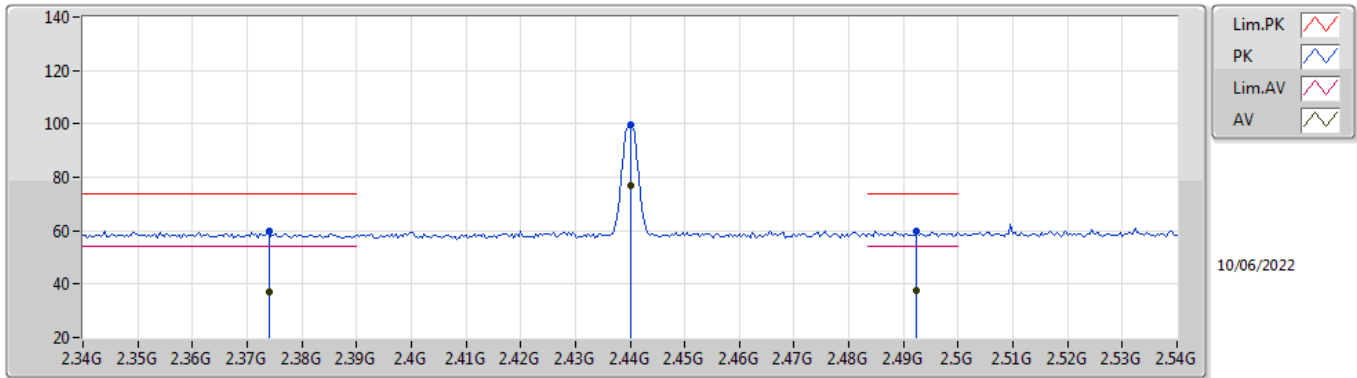
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80444G	25.50	54.00	-28.50	7.99	3	Horizontal	341	1.20	-	17.51	32.51	9.67	34.19
PK	4.80444G	48.00	74.00	-26.00	7.99	3	Horizontal	341	1.20	-	40.01	32.51	9.67	34.19

BT-EDR(3Mbps)

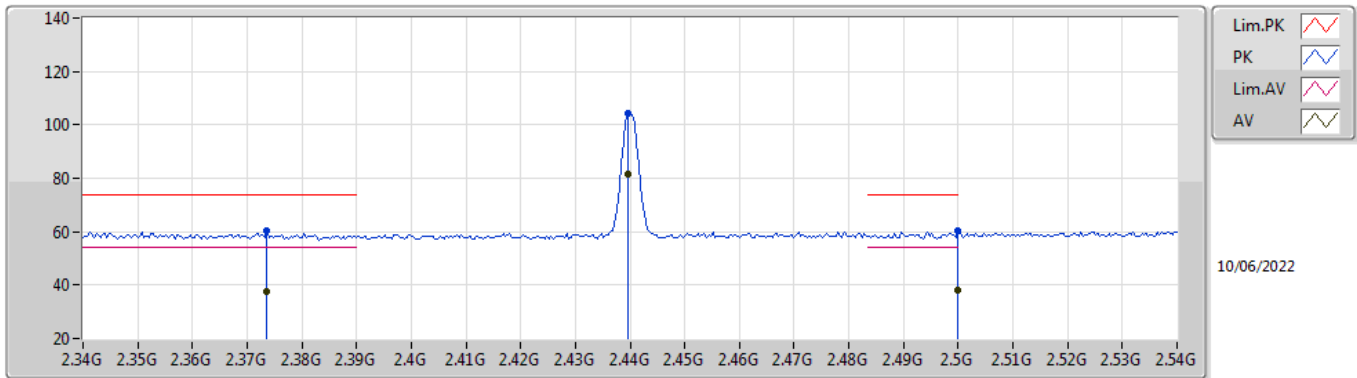
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.374G	37.24	54.00	-16.76	35.52	3	Vertical	140	2.39	-	1.72	27.25	8.27	-
AV	2.44G	77.04	Inf	-Inf	35.78	3	Vertical	140	2.39	-	41.26	27.46	8.32	-
AV	2.4924G	37.47	54.00	-16.53	36.10	3	Vertical	140	2.39	-	1.37	27.75	8.35	-
PK	2.374G	59.74	74.00	-14.26	35.52	3	Vertical	140	2.39	-	24.22	27.25	8.27	-
PK	2.44G	99.54	Inf	-Inf	35.78	3	Vertical	140	2.39	-	63.76	27.46	8.32	-
PK	2.4924G	59.97	74.00	-14.03	36.10	3	Vertical	140	2.39	-	23.87	27.75	8.35	-

BT-EDR(3Mbps)

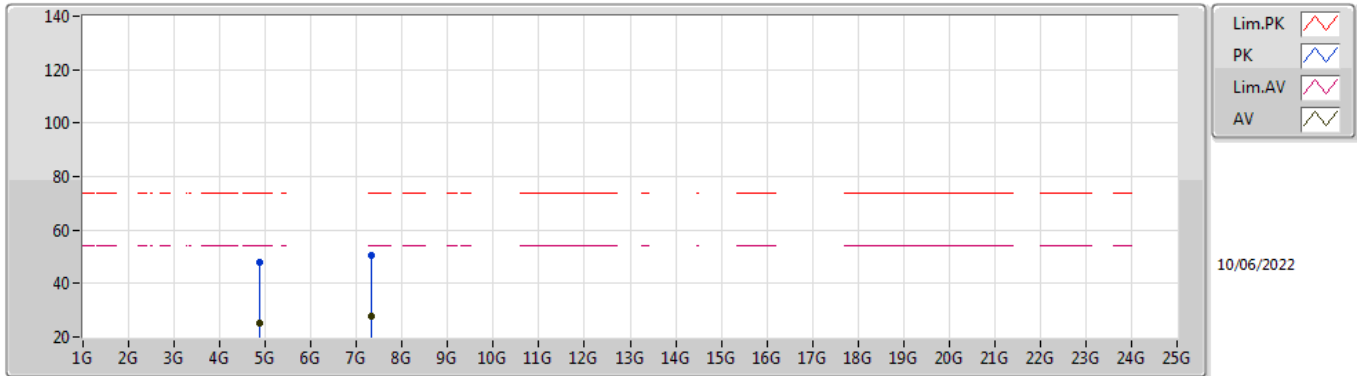
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3736G	37.60	54.00	-16.40	35.52	3	Horizontal	329	1.03	-	2.08	27.25	8.27	-
AV	2.4396G	81.59	Inf	-Inf	35.78	3	Horizontal	329	1.03	-	45.81	27.46	8.32	-
AV	2.5G	38.01	54.00	-15.99	36.16	3	Horizontal	329	1.03	-	1.85	27.80	8.36	-
PK	2.3736G	60.10	74.00	-13.90	35.52	3	Horizontal	329	1.03	-	24.58	27.25	8.27	-
PK	2.4396G	104.09	Inf	-Inf	35.78	3	Horizontal	329	1.03	-	68.31	27.46	8.32	-
PK	2.5G	60.51	74.00	-13.49	36.16	3	Horizontal	329	1.03	-	24.35	27.80	8.36	-

BT-EDR(3Mbps)

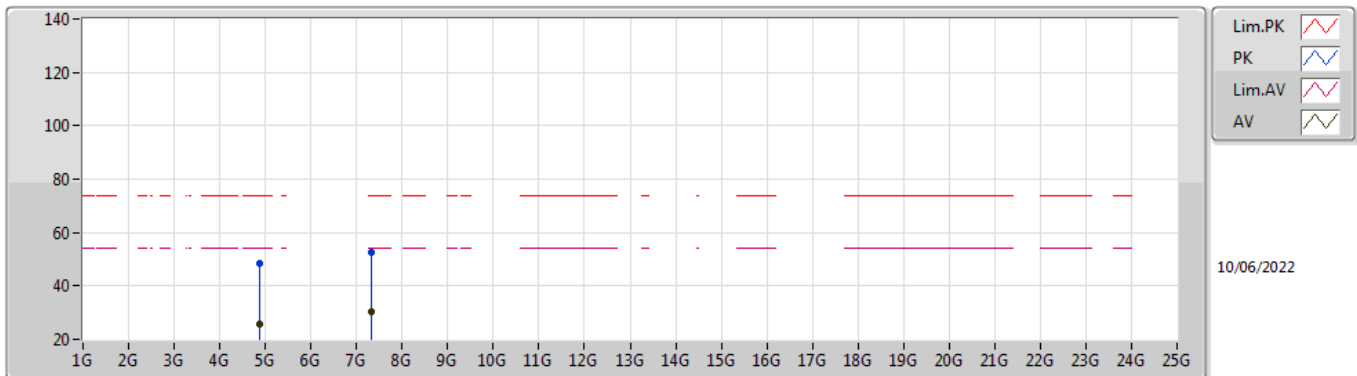
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87966G	25.32	54.00	-28.68	8.20	3	Vertical	228.6	1.00	-	17.12	32.66	9.70	34.16
AV	7.3196G	27.98	54.00	-26.02	13.46	3	Vertical	34	1.50	-	14.52	36.64	11.32	34.50
PK	4.87966G	47.82	74.00	-26.18	8.20	3	Vertical	228.6	1.00	-	39.62	32.66	9.70	34.16
PK	7.3196G	50.48	74.00	-23.52	13.46	3	Vertical	34	1.50	-	37.02	36.64	11.32	34.50

BT-EDR(3Mbps)

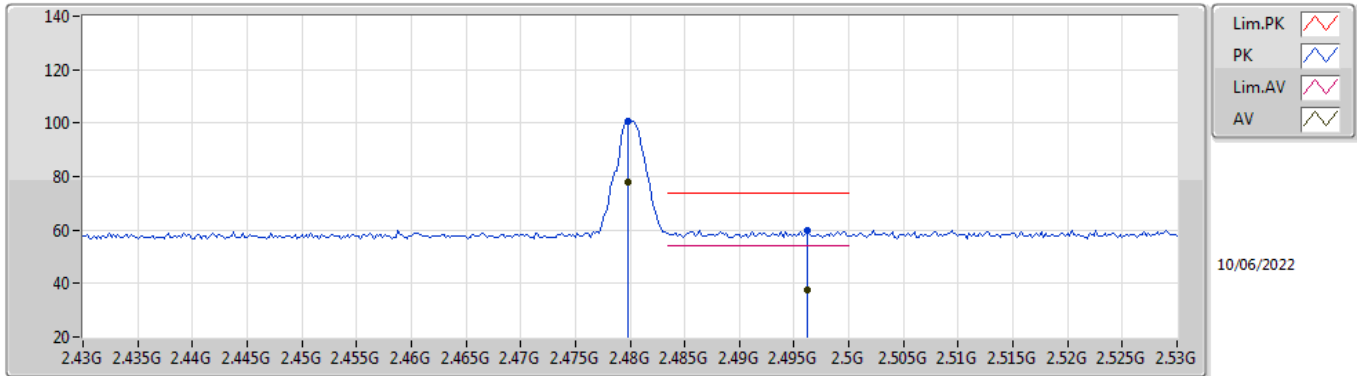
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87674G	25.92	54.00	-28.08	8.19	3	Horizontal	28	1.22	-	17.73	32.65	9.70	34.16
AV	7.323G	30.18	54.00	-23.82	13.47	3	Horizontal	133	1.08	-	16.71	36.65	11.32	34.50
PK	4.87674G	48.42	74.00	-25.58	8.19	3	Horizontal	28	1.22	-	40.23	32.65	9.70	34.16
PK	7.323G	52.68	74.00	-21.32	13.47	3	Horizontal	133	1.08	-	39.21	36.65	11.32	34.50

BT-EDR(3Mbps)

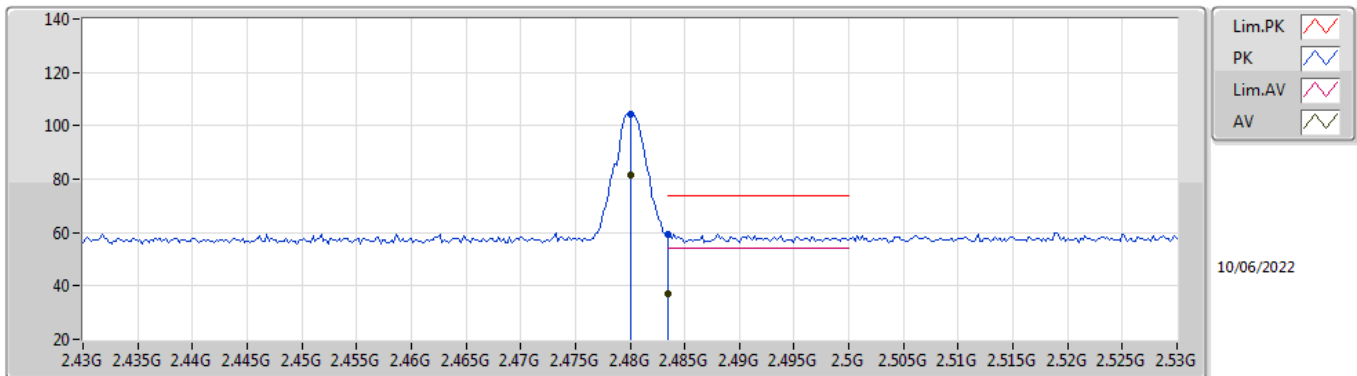
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	78.18	Inf	-Inf	36.02	3	Vertical	138	2.61	-	42.16	27.68	8.34	-
AV	2.4962G	37.52	54.00	-16.48	36.13	3	Vertical	138	2.61	-	1.39	27.78	8.35	-
PK	2.4798G	100.68	Inf	-Inf	36.02	3	Vertical	138	2.61	-	64.66	27.68	8.34	-
PK	2.4962G	60.02	74.00	-13.98	36.13	3	Vertical	138	2.61	-	23.89	27.78	8.35	-

BT-EDR(3Mbps)

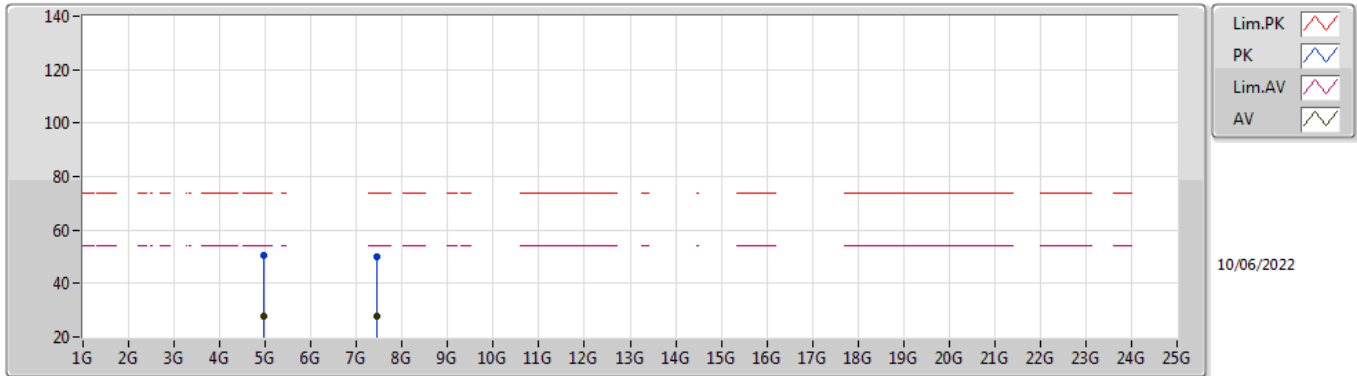
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	81.71	Inf	-Inf	36.02	3	Horizontal	52	1.50	-	45.69	27.68	8.34	-
AV	2.4835G	37.05	54.00	-16.95	36.04	3	Horizontal	52	1.50	-	1.01	27.70	8.34	-
PK	2.48G	104.21	Inf	-Inf	36.02	3	Horizontal	52	1.50	-	68.19	27.68	8.34	-
PK	2.4835G	59.55	74.00	-14.45	36.04	3	Horizontal	52	1.50	-	23.51	27.70	8.34	-

BT-EDR(3Mbps)

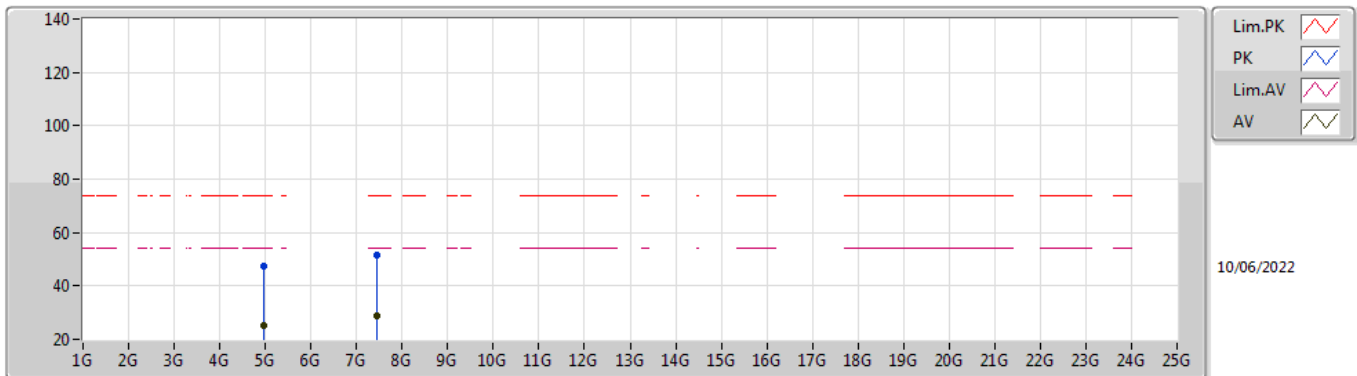
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9595G	27.78	54.00	-26.22	8.55	3	Vertical	116	1.35	-	19.23	32.94	9.73	34.12
AV	7.44143G	27.60	54.00	-26.40	13.04	3	Vertical	249	1.50	-	14.56	36.23	11.30	34.49
PK	4.9595G	50.28	74.00	-23.72	8.55	3	Vertical	116	1.35	-	41.73	32.94	9.73	34.12
PK	7.44143G	50.10	74.00	-23.90	13.04	3	Vertical	249	1.50	-	37.06	36.23	11.30	34.49

BT-EDR(3Mbps)

2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95971G	24.96	54.00	-29.04	8.55	3	Horizontal	160	1.50	-	16.41	32.94	9.73	34.12
AV	7.44053G	28.86	54.00	-25.14	13.05	3	Horizontal	16	1.03	-	15.81	36.24	11.30	34.49
PK	4.95971G	47.46	74.00	-26.54	8.55	3	Horizontal	160	1.50	-	38.91	32.94	9.73	34.12
PK	7.44053G	51.36	74.00	-22.64	13.05	3	Horizontal	16	1.03	-	38.31	36.24	11.30	34.49



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	47.46M	31.15	40.00	-8.85	3	Vertical	360	1.00	-

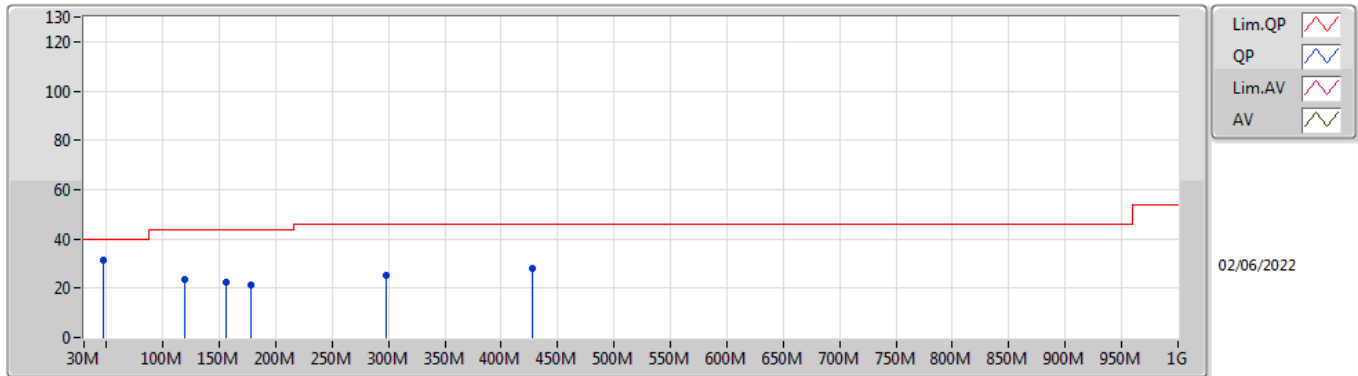


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	47.46M	31.15	40.00	-8.85	3	Vertical	360	1.00	-
2440MHz	Pass	PK	119.24M	23.41	43.50	-20.09	3	Vertical	360	1.00	-
2440MHz	Pass	PK	156.1M	22.34	43.50	-21.16	3	Vertical	360	1.00	-
2440MHz	Pass	PK	177.44M	21.15	43.50	-22.35	3	Vertical	360	1.00	-
2440MHz	Pass	PK	297.72M	25.27	46.00	-20.73	3	Vertical	360	1.00	-
2440MHz	Pass	PK	427.7M	28.24	46.00	-17.76	3	Vertical	360	1.00	-
2440MHz	Pass	PK	35.82M	29.74	40.00	-10.26	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	45.52M	29.63	40.00	-10.37	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	105.66M	25.99	43.50	-17.51	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	218.18M	26.19	46.00	-19.81	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	262.8M	25.48	46.00	-20.52	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	489.78M	29.62	46.00	-16.38	3	Horizontal	0	1.00	-

BT-BR(1Mbps)

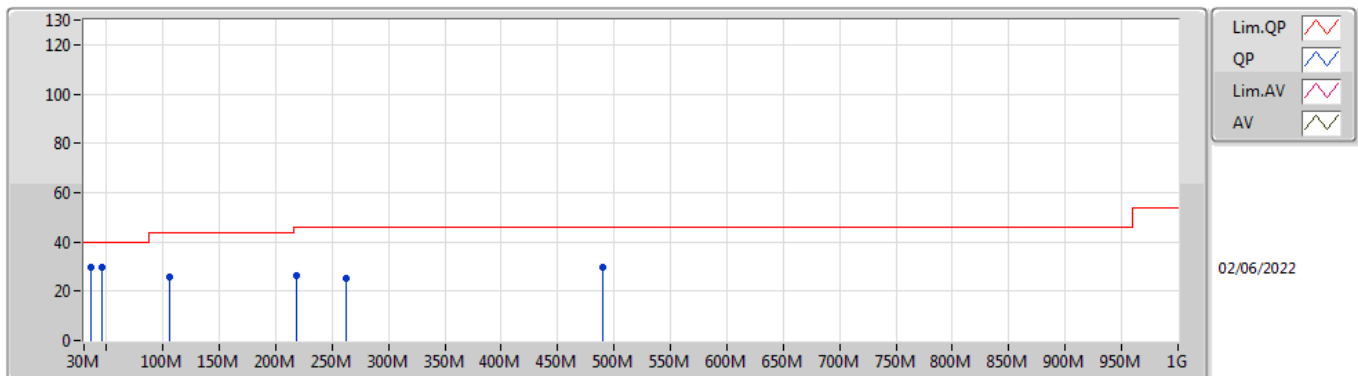
2440MHz_USB



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	47.46M	31.15	40.00	-8.85	-12.46	3	Vertical	360	1.00	-	43.61	14.15	1.03	27.64
PK	119.24M	23.41	43.50	-20.09	-8.78	3	Vertical	360	1.00	-	32.19	17.48	1.54	27.80
PK	156.1M	22.34	43.50	-21.16	-10.46	3	Vertical	360	1.00	-	32.80	15.32	1.76	27.54
PK	177.44M	21.15	43.50	-22.35	-10.94	3	Vertical	360	1.00	-	32.09	14.63	1.90	27.47
PK	297.72M	25.27	46.00	-20.73	-6.27	3	Vertical	360	1.00	-	31.54	18.29	2.50	27.06
PK	427.7M	28.24	46.00	-17.76	-3.18	3	Vertical	360	1.00	-	31.42	21.77	2.99	27.94

BT-BR(1Mbps)

2440MHz_USB



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	35.82M	29.74	40.00	-10.26	-5.99	3	Horizontal	0	1.00	-	35.73	20.17	1.02	27.18
PK	45.52M	29.63	40.00	-10.37	-11.58	3	Horizontal	0	1.00	-	41.21	14.97	1.03	27.58
PK	105.66M	25.99	43.50	-17.51	-9.56	3	Horizontal	0	1.00	-	35.55	16.77	1.45	27.78
PK	218.18M	26.19	46.00	-19.81	-10.81	3	Horizontal	0	1.00	-	37.00	14.29	2.11	27.21
PK	262.8M	25.48	46.00	-20.52	-6.04	3	Horizontal	0	1.00	-	31.52	18.67	2.32	27.03
PK	489.78M	29.62	46.00	-16.38	-2.31	3	Horizontal	0	1.00	-	31.93	22.72	3.26	28.29



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	61.33	74.00	-12.67	3	Horizontal	298	2.74	-
BT-EDR(3Mbps)	Pass	PK	2.4842G	60.40	74.00	-13.60	3	Horizontal	297	2.73	-



Result

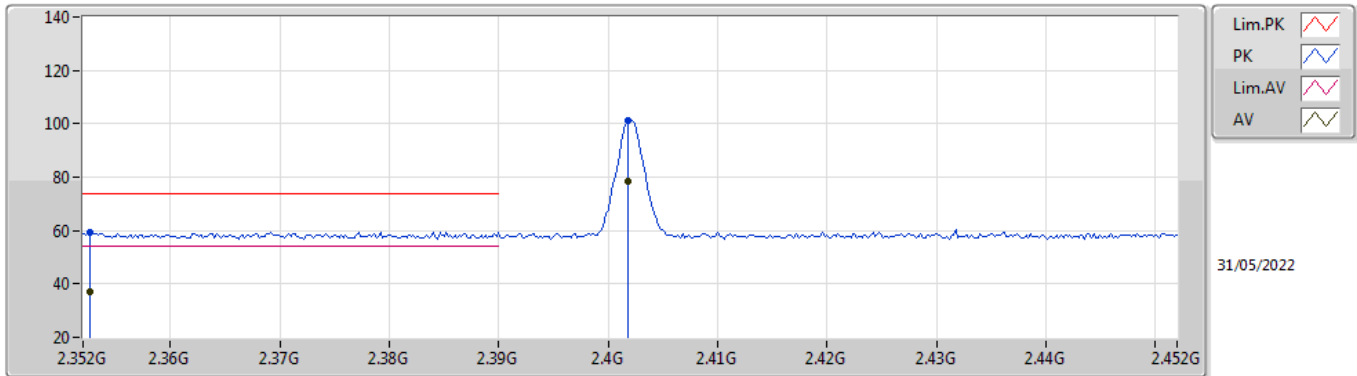
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3526G	36.85	54.00	-17.15	3	Vertical	139	1.11	-
2402MHz	Pass	AV	2.4018G	78.54	Inf	-Inf	3	Vertical	139	1.11	-
2402MHz	Pass	PK	2.3526G	59.35	74.00	-14.65	3	Vertical	139	1.11	-
2402MHz	Pass	PK	2.4018G	101.04	Inf	-Inf	3	Vertical	139	1.11	-
2402MHz	Pass	AV	2.3702G	36.97	54.00	-17.03	3	Horizontal	298	2.91	-
2402MHz	Pass	AV	2.4018G	83.33	Inf	-Inf	3	Horizontal	298	2.91	-
2402MHz	Pass	PK	2.3702G	59.47	74.00	-14.53	3	Horizontal	298	2.91	-
2402MHz	Pass	PK	2.4018G	105.83	Inf	-Inf	3	Horizontal	298	2.91	-
2402MHz	Pass	AV	4.80428G	25.69	54.00	-28.31	3	Vertical	235	2.33	-
2402MHz	Pass	PK	4.80428G	48.19	74.00	-25.81	3	Vertical	235	2.33	-
2402MHz	Pass	AV	4.80386G	24.79	54.00	-29.21	3	Horizontal	22	1.26	-
2402MHz	Pass	PK	4.80386G	47.29	74.00	-26.71	3	Horizontal	22	1.26	-
2440MHz	Pass	AV	2.3456G	37.50	54.00	-16.50	3	Vertical	76	1.08	-
2440MHz	Pass	AV	2.44G	82.20	Inf	-Inf	3	Vertical	76	1.08	-
2440MHz	Pass	AV	2.4988G	37.40	54.00	-16.60	3	Vertical	76	1.08	-
2440MHz	Pass	PK	2.3456G	60.00	74.00	-14.00	3	Vertical	76	1.08	-
2440MHz	Pass	PK	2.44G	104.70	Inf	-Inf	3	Vertical	76	1.08	-
2440MHz	Pass	PK	2.4988G	59.90	74.00	-14.10	3	Vertical	76	1.08	-
2440MHz	Pass	AV	2.3568G	37.06	54.00	-16.94	3	Horizontal	24	2.83	-
2440MHz	Pass	AV	2.44G	83.80	Inf	-Inf	3	Horizontal	24	2.83	-
2440MHz	Pass	AV	2.4835G	37.31	54.00	-16.69	3	Horizontal	24	2.83	-
2440MHz	Pass	PK	2.3568G	59.56	74.00	-14.44	3	Horizontal	24	2.83	-
2440MHz	Pass	PK	2.44G	106.30	Inf	-Inf	3	Horizontal	24	2.83	-
2440MHz	Pass	PK	2.4835G	59.81	74.00	-14.19	3	Horizontal	24	2.83	-
2440MHz	Pass	AV	4.88028G	25.86	54.00	-28.14	3	Vertical	285	1.08	-
2440MHz	Pass	AV	7.32038G	30.32	54.00	-23.68	3	Vertical	177	1.78	-
2440MHz	Pass	PK	4.88028G	48.36	74.00	-25.64	3	Vertical	285	1.08	-
2440MHz	Pass	PK	7.32038G	52.82	74.00	-21.18	3	Vertical	177	1.78	-
2440MHz	Pass	AV	4.88004G	23.46	54.00	-30.54	3	Horizontal	6	1.25	-
2440MHz	Pass	AV	7.3195G	30.10	54.00	-23.90	3	Horizontal	358	1.96	-
2440MHz	Pass	PK	4.88004G	45.96	74.00	-28.04	3	Horizontal	6	1.25	-
2440MHz	Pass	PK	7.3195G	52.42	74.00	-21.58	3	Horizontal	358	1.96	-
2480MHz	Pass	AV	2.4798G	78.72	Inf	-Inf	3	Vertical	145	1.12	-
2480MHz	Pass	AV	2.4996G	37.57	54.00	-16.43	3	Vertical	145	1.12	-
2480MHz	Pass	PK	2.4798G	101.22	Inf	-Inf	3	Vertical	145	1.12	-
2480MHz	Pass	PK	2.4996G	60.07	74.00	-13.93	3	Vertical	145	1.12	-
2480MHz	Pass	AV	2.4798G	85.72	Inf	-Inf	3	Horizontal	298	2.74	-
2480MHz	Pass	AV	2.4835G	38.83	54.00	-15.17	3	Horizontal	298	2.74	-
2480MHz	Pass	PK	2.4798G	108.22	Inf	-Inf	3	Horizontal	298	2.74	-
2480MHz	Pass	PK	2.4835G	61.33	74.00	-12.67	3	Horizontal	298	2.74	-
2480MHz	Pass	AV	4.95998G	26.06	54.00	-27.94	3	Vertical	321	1.50	-
2480MHz	Pass	AV	7.4404G	28.63	54.00	-25.37	3	Vertical	177	1.78	-
2480MHz	Pass	PK	4.95998G	48.56	74.00	-25.44	3	Vertical	321	1.50	-
2480MHz	Pass	PK	7.4404G	51.13	74.00	-22.87	3	Vertical	177	1.78	-
2480MHz	Pass	AV	4.9599G	24.20	54.00	-29.80	3	Horizontal	13	1.08	-
2480MHz	Pass	AV	7.43776G	28.00	54.00	-26.00	3	Horizontal	129.8	1.94	-
2480MHz	Pass	PK	4.9599G	46.70	74.00	-27.30	3	Horizontal	13	1.08	-
2480MHz	Pass	PK	7.43776G	50.50	74.00	-23.50	3	Horizontal	129.8	1.94	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3554G	37.31	54.00	-16.69	3	Vertical	230	2.56	-
2402MHz	Pass	AV	2.4018G	76.45	Inf	-Inf	3	Vertical	230	2.56	-
2402MHz	Pass	PK	2.3554G	59.81	74.00	-14.19	3	Vertical	230	2.56	-
2402MHz	Pass	PK	2.4018G	98.95	Inf	-Inf	3	Vertical	230	2.56	-
2402MHz	Pass	AV	2.36G	37.09	54.00	-16.91	3	Horizontal	306	1.03	-
2402MHz	Pass	AV	2.4018G	76.41	Inf	-Inf	3	Horizontal	306	1.03	-
2402MHz	Pass	PK	2.36G	59.59	74.00	-14.41	3	Horizontal	306	1.03	-
2402MHz	Pass	PK	2.4018G	98.91	Inf	-Inf	3	Horizontal	306	1.03	-
2402MHz	Pass	AV	4.80444G	23.48	54.00	-30.52	3	Vertical	284	1.03	-
2402MHz	Pass	PK	4.80444G	45.98	74.00	-28.02	3	Vertical	284	1.03	-
2402MHz	Pass	AV	4.80058G	23.55	54.00	-30.45	3	Horizontal	91	1.50	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2402MHz	Pass	PK	4.80058G	46.05	74.00	-27.95	3	Horizontal	91	1.50	-
2440MHz	Pass	AV	2.3716G	37.28	54.00	-16.72	3	Vertical	228	2.46	-
2440MHz	Pass	AV	2.4396G	78.41	Inf	-Inf	3	Vertical	228	2.46	-
2440MHz	Pass	AV	2.4868G	37.69	54.00	-16.31	3	Vertical	228	2.46	-
2440MHz	Pass	PK	2.3716G	59.78	74.00	-14.22	3	Vertical	228	2.46	-
2440MHz	Pass	PK	2.4396G	100.91	Inf	-Inf	3	Vertical	228	2.46	-
2440MHz	Pass	PK	2.4868G	60.19	74.00	-13.81	3	Vertical	228	2.46	-
2440MHz	Pass	AV	2.3604G	36.98	54.00	-17.02	3	Horizontal	303	1.00	-
2440MHz	Pass	AV	2.44G	79.16	Inf	-Inf	3	Horizontal	303	1.00	-
2440MHz	Pass	AV	2.4844G	37.81	54.00	-16.19	3	Horizontal	303	1.00	-
2440MHz	Pass	PK	2.3604G	59.48	74.00	-14.52	3	Horizontal	303	1.00	-
2440MHz	Pass	PK	2.44G	101.66	Inf	-Inf	3	Horizontal	303	1.00	-
2440MHz	Pass	PK	2.4844G	60.31	74.00	-13.69	3	Horizontal	303	1.00	-
2440MHz	Pass	AV	4.88328G	22.72	54.00	-31.28	3	Vertical	110	2.55	-
2440MHz	Pass	AV	7.32186G	28.19	54.00	-25.81	3	Vertical	205	1.04	-
2440MHz	Pass	PK	4.88328G	45.22	74.00	-28.78	3	Vertical	110	2.55	-
2440MHz	Pass	PK	7.32186G	50.69	74.00	-23.31	3	Vertical	205	1.04	-
2440MHz	Pass	AV	4.87576G	23.09	54.00	-30.91	3	Horizontal	1	1.50	-
2440MHz	Pass	AV	7.31582G	28.01	54.00	-25.99	3	Horizontal	71	1.12	-
2440MHz	Pass	PK	4.87576G	45.59	74.00	-28.41	3	Horizontal	1	1.50	-
2440MHz	Pass	PK	7.31582G	50.51	74.00	-23.49	3	Horizontal	71	1.12	-
2480MHz	Pass	AV	2.4798G	77.17	Inf	-Inf	3	Vertical	256	1.38	-
2480MHz	Pass	AV	2.4962G	37.43	54.00	-16.57	3	Vertical	256	1.38	-
2480MHz	Pass	PK	2.4798G	99.67	Inf	-Inf	3	Vertical	256	1.38	-
2480MHz	Pass	PK	2.4962G	59.93	74.00	-14.07	3	Vertical	256	1.38	-
2480MHz	Pass	AV	2.4798G	80.69	Inf	-Inf	3	Horizontal	297	2.73	-
2480MHz	Pass	AV	2.4842G	37.90	54.00	-16.10	3	Horizontal	297	2.73	-
2480MHz	Pass	PK	2.4798G	103.19	Inf	-Inf	3	Horizontal	297	2.73	-
2480MHz	Pass	PK	2.4842G	60.40	74.00	-13.60	3	Horizontal	297	2.73	-
2480MHz	Pass	AV	4.9648G	23.77	54.00	-30.23	3	Vertical	335	2.35	-
2480MHz	Pass	AV	7.4389G	27.48	54.00	-26.52	3	Vertical	14	2.45	-
2480MHz	Pass	PK	4.9648G	46.27	74.00	-27.73	3	Vertical	335	2.35	-
2480MHz	Pass	PK	7.4389G	49.98	74.00	-24.02	3	Vertical	14	2.45	-
2480MHz	Pass	AV	4.9595G	23.83	54.00	-30.17	3	Horizontal	330	1.50	-
2480MHz	Pass	AV	7.44408G	27.67	54.00	-26.33	3	Horizontal	272	2.07	-
2480MHz	Pass	PK	4.9595G	46.33	74.00	-27.67	3	Horizontal	330	1.50	-
2480MHz	Pass	PK	7.44408G	50.17	74.00	-23.83	3	Horizontal	272	2.07	-

BT-BR(1Mbps)

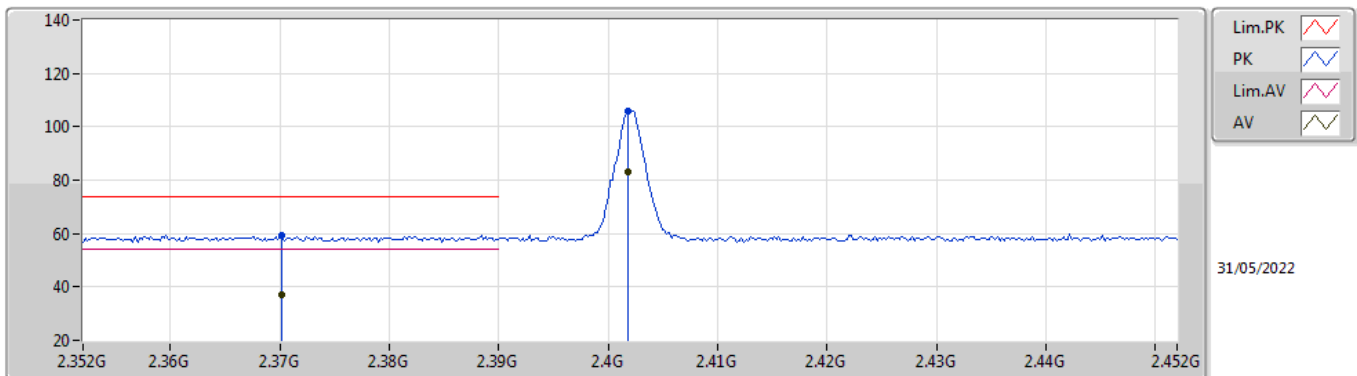
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3526G	36.85	54.00	-17.15	35.46	3	Vertical	139	1.11	-	1.39	27.21	8.25	-
AV	2.4018G	78.54	Inf	-Inf	35.60	3	Vertical	139	1.11	-	42.94	27.31	8.29	-
PK	2.3526G	59.35	74.00	-14.65	35.46	3	Vertical	139	1.11	-	23.89	27.21	8.25	-
PK	2.4018G	101.04	Inf	-Inf	35.60	3	Vertical	139	1.11	-	65.44	27.31	8.29	-

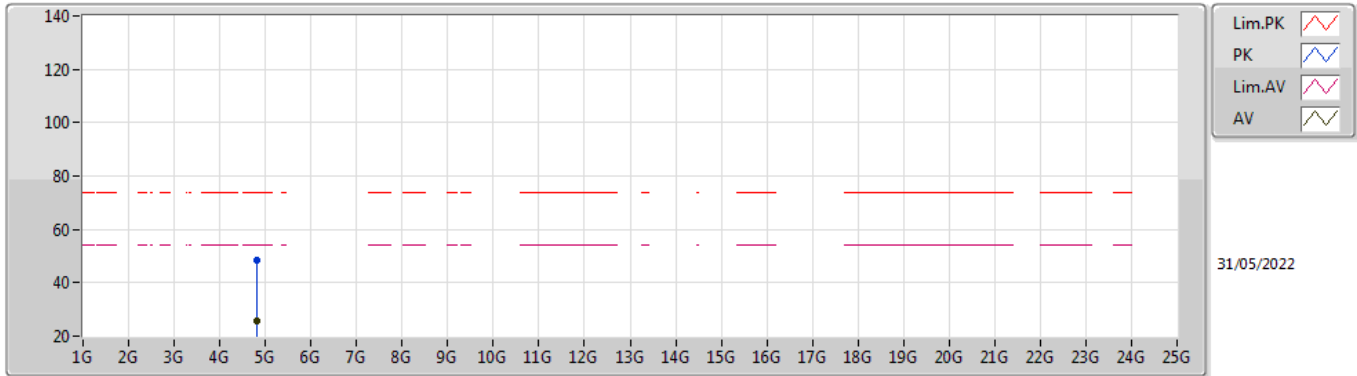
BT-BR(1Mbps)

2402MHz_TX



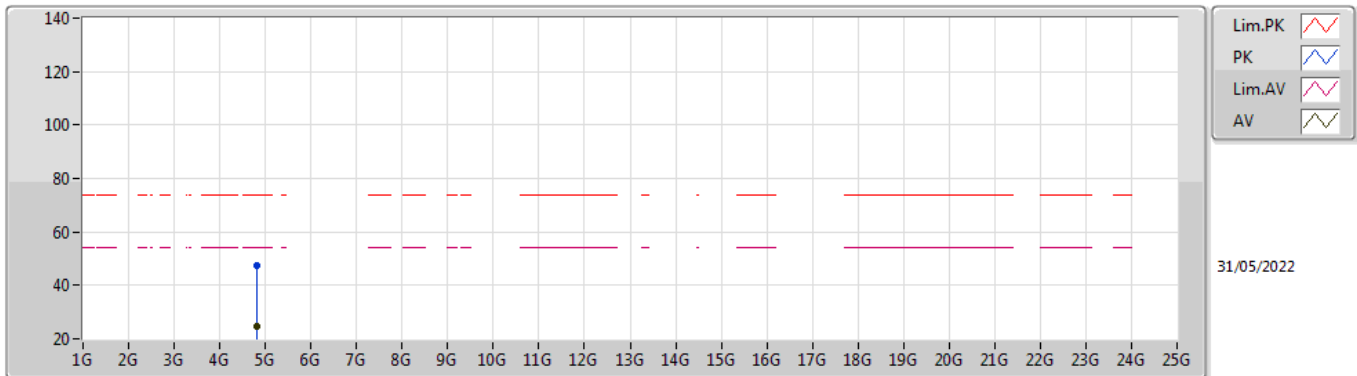
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3702G	36.97	54.00	-17.03	35.51	3	Horizontal	298	2.91	-	1.46	27.24	8.27	-
AV	2.4018G	83.33	Inf	-Inf	35.60	3	Horizontal	298	2.91	-	47.73	27.31	8.29	-
PK	2.3702G	59.47	74.00	-14.53	35.51	3	Horizontal	298	2.91	-	23.96	27.24	8.27	-
PK	2.4018G	105.83	Inf	-Inf	35.60	3	Horizontal	298	2.91	-	70.23	27.31	8.29	-

BT-BR(1Mbps)
2402MHz_TX



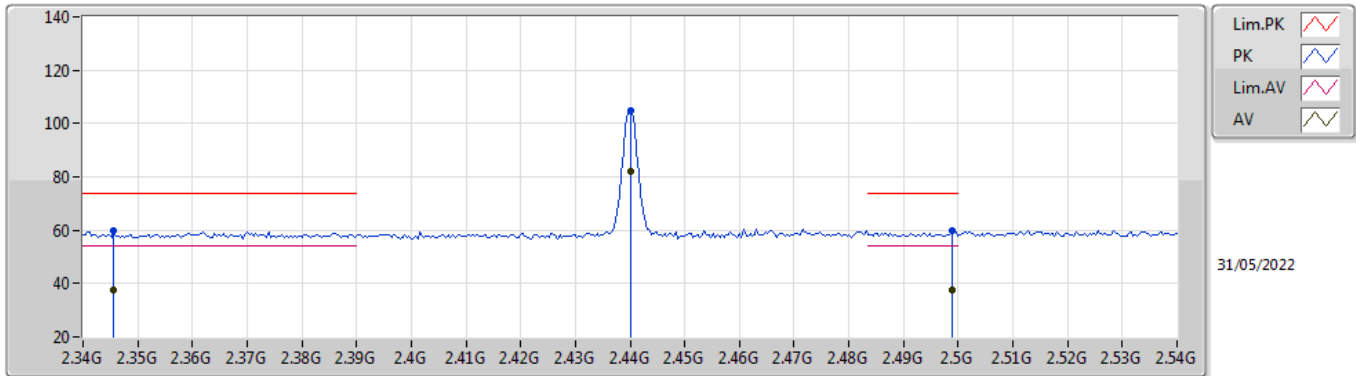
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80428G	25.69	54.00	-28.31	7.99	3	Vertical	235	2.33	-	17.70	32.51	9.67	34.19
PK	4.80428G	48.19	74.00	-25.81	7.99	3	Vertical	235	2.33	-	40.20	32.51	9.67	34.19

BT-BR(1Mbps)
2402MHz_TX



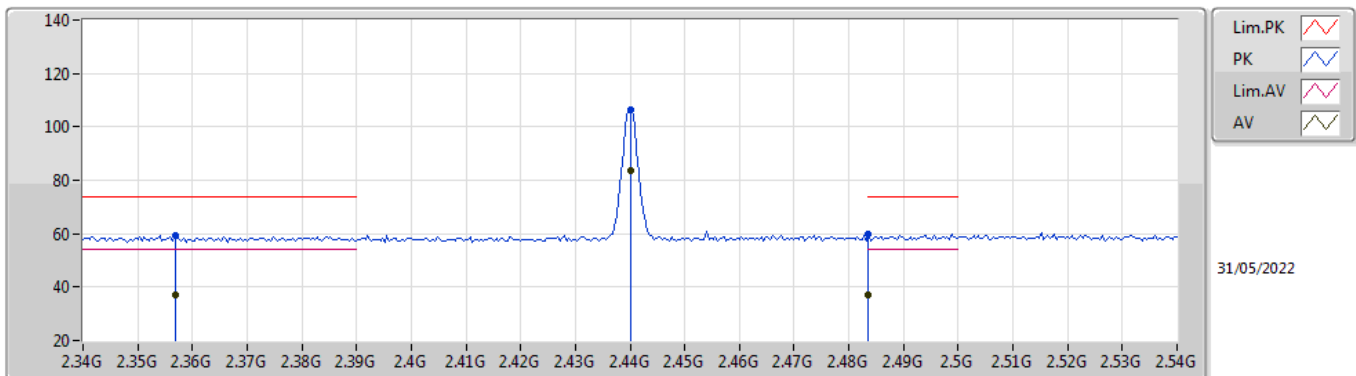
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80386G	24.79	54.00	-29.21	7.99	3	Horizontal	22	1.26	-	16.80	32.51	9.67	34.19
PK	4.80386G	47.29	74.00	-26.71	7.99	3	Horizontal	22	1.26	-	39.30	32.51	9.67	34.19

BT-BR(1Mbps)
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3456G	37.50	54.00	-16.50	35.43	3	Vertical	76	1.08	-	2.07	27.18	8.25	-
AV	2.44G	82.20	Inf	-Inf	35.78	3	Vertical	76	1.08	-	46.42	27.46	8.32	-
AV	2.4988G	37.40	54.00	-16.60	36.14	3	Vertical	76	1.08	-	1.26	27.79	8.35	-
PK	2.3456G	60.00	74.00	-14.00	35.43	3	Vertical	76	1.08	-	24.57	27.18	8.25	-
PK	2.44G	104.70	Inf	-Inf	35.78	3	Vertical	76	1.08	-	68.92	27.46	8.32	-
PK	2.4988G	59.90	74.00	-14.10	36.14	3	Vertical	76	1.08	-	23.76	27.79	8.35	-

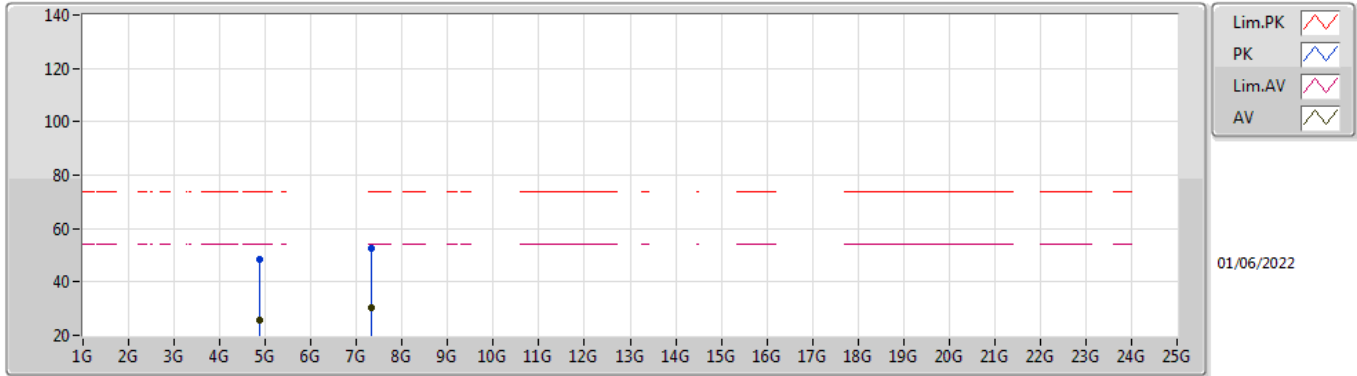
BT-BR(1Mbps)
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3568G	37.06	54.00	-16.94	35.47	3	Horizontal	24	2.83	-	1.59	27.21	8.26	-
AV	2.44G	83.80	Inf	-Inf	35.78	3	Horizontal	24	2.83	-	48.02	27.46	8.32	-
AV	2.4835G	37.31	54.00	-16.69	36.04	3	Horizontal	24	2.83	-	1.27	27.70	8.34	-
PK	2.3568G	59.56	74.00	-14.44	35.47	3	Horizontal	24	2.83	-	24.09	27.21	8.26	-
PK	2.44G	106.30	Inf	-Inf	35.78	3	Horizontal	24	2.83	-	70.52	27.46	8.32	-
PK	2.4835G	59.81	74.00	-14.19	36.04	3	Horizontal	24	2.83	-	23.77	27.70	8.34	-

BT-BR(1Mbps)

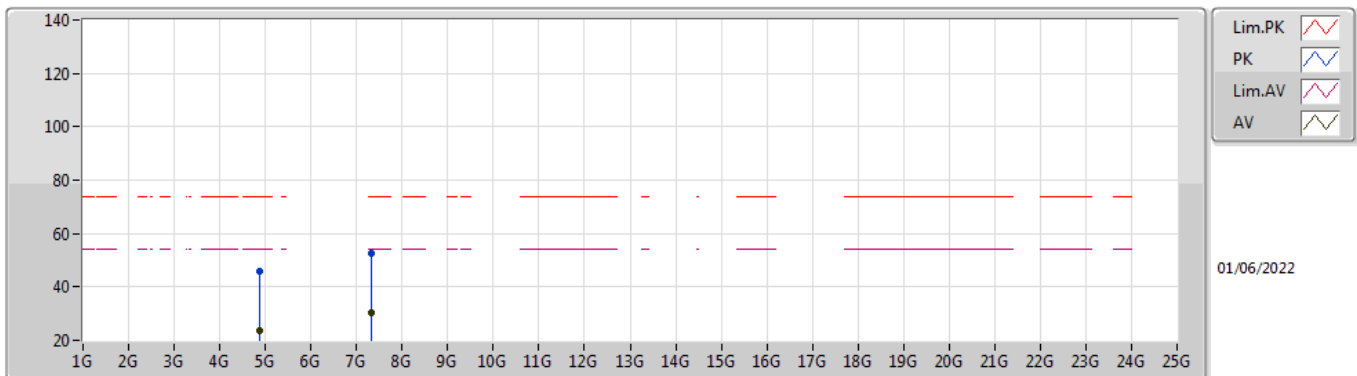
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88028G	25.86	54.00	-28.14	8.20	3	Vertical	285	1.08	-	17.66	32.66	9.70	34.16
AV	7.32038G	30.32	54.00	-23.68	13.46	3	Vertical	177	1.78	-	16.86	36.64	11.32	34.50
PK	4.88028G	48.36	74.00	-25.64	8.20	3	Vertical	285	1.08	-	40.16	32.66	9.70	34.16
PK	7.32038G	52.82	74.00	-21.18	13.46	3	Vertical	177	1.78	-	39.36	36.64	11.32	34.50

BT-BR(1Mbps)

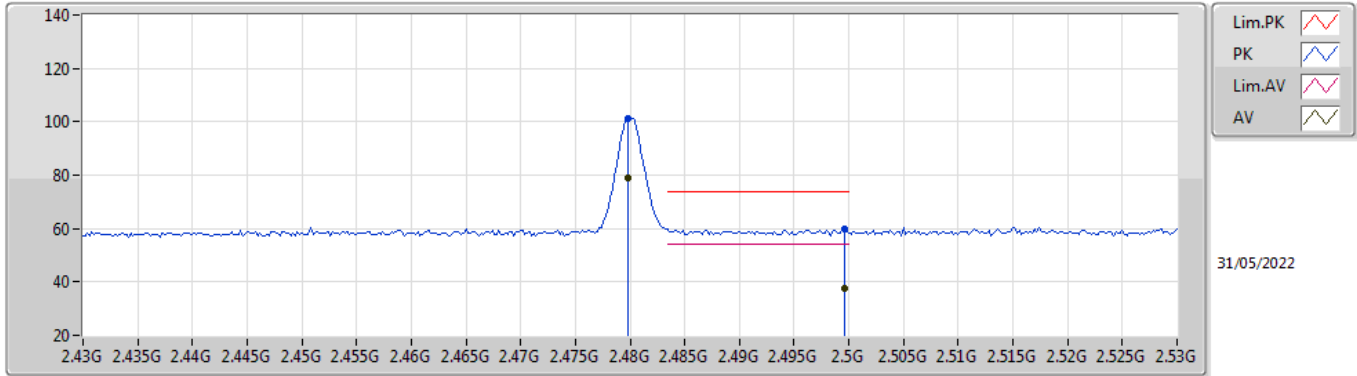
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88004G	23.46	54.00	-30.54	8.20	3	Horizontal	6	1.25	-	15.26	32.66	9.70	34.16
AV	7.3195G	30.10	54.00	-23.90	13.46	3	Horizontal	358	1.96	-	16.64	36.64	11.32	34.50
PK	4.88004G	45.96	74.00	-28.04	8.20	3	Horizontal	6	1.25	-	37.76	32.66	9.70	34.16
PK	7.3195G	52.42	74.00	-21.58	13.46	3	Horizontal	358	1.96	-	38.96	36.64	11.32	34.50

BT-BR(1Mbps)

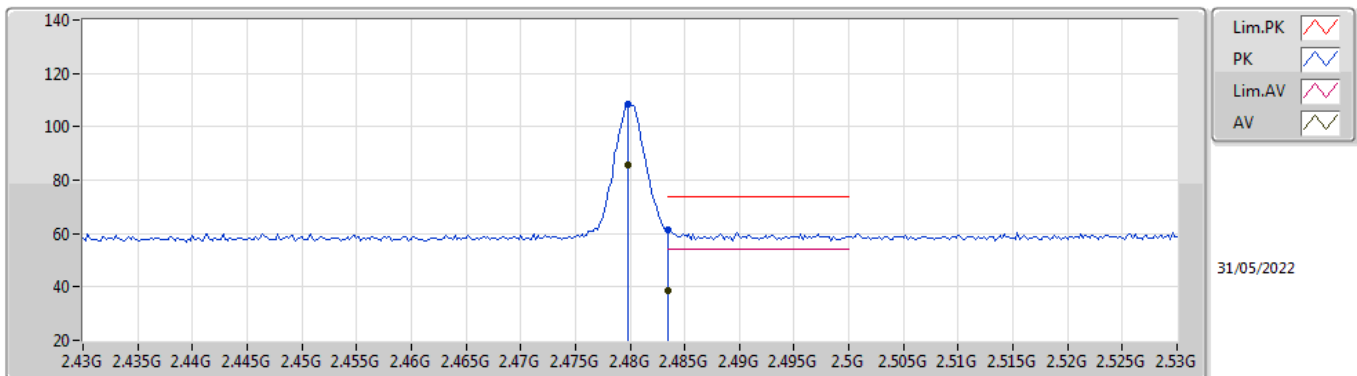
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	78.72	Inf	-Inf	36.02	3	Vertical	145	1.12	-	42.70	27.68	8.34	-
AV	2.4996G	37.57	54.00	-16.43	36.15	3	Vertical	145	1.12	-	1.42	27.80	8.35	-
PK	2.4798G	101.22	Inf	-Inf	36.02	3	Vertical	145	1.12	-	65.20	27.68	8.34	-
PK	2.4996G	60.07	74.00	-13.93	36.15	3	Vertical	145	1.12	-	23.92	27.80	8.35	-

BT-BR(1Mbps)

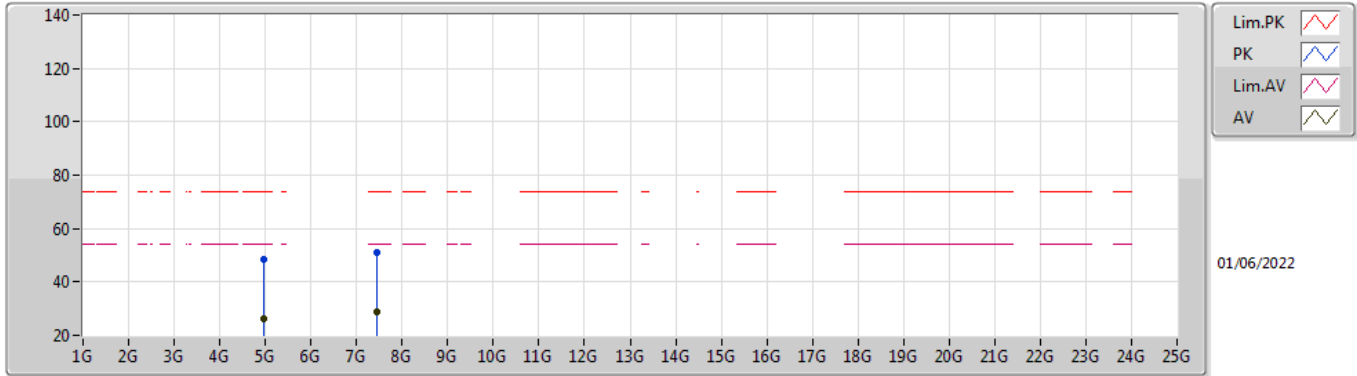
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	85.72	Inf	-Inf	36.02	3	Horizontal	298	2.74	-	49.70	27.68	8.34	-
AV	2.4835G	38.83	54.00	-15.17	36.04	3	Horizontal	298	2.74	-	2.79	27.70	8.34	-
PK	2.4798G	108.22	Inf	-Inf	36.02	3	Horizontal	298	2.74	-	72.20	27.68	8.34	-
PK	2.4835G	61.33	74.00	-12.67	36.04	3	Horizontal	298	2.74	-	25.29	27.70	8.34	-

BT-BR(1Mbps)

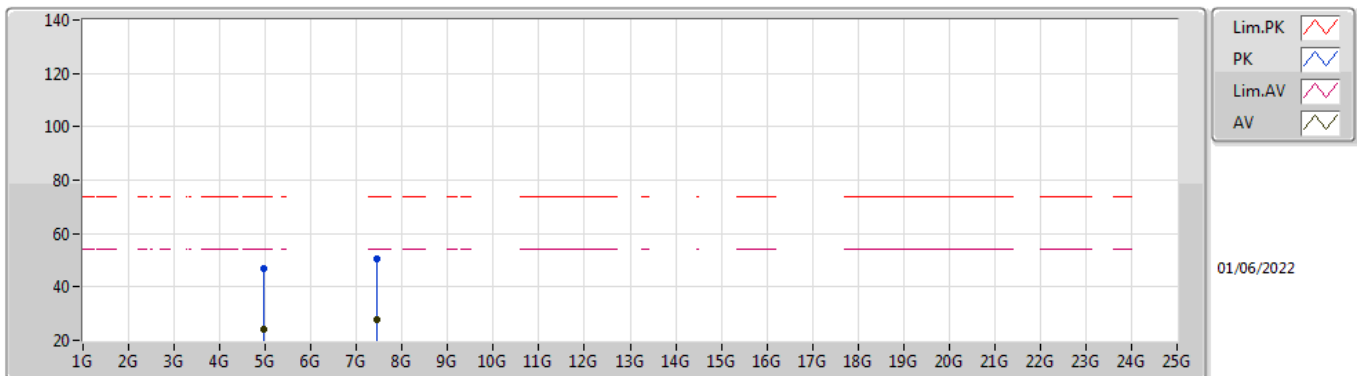
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95998G	26.06	54.00	-27.94	8.55	3	Vertical	321	1.50	-	17.51	32.94	9.73	34.12
AV	7.4404G	28.63	54.00	-25.37	13.05	3	Vertical	177	1.78	-	15.58	36.24	11.30	34.49
PK	4.95998G	48.56	74.00	-25.44	8.55	3	Vertical	321	1.50	-	40.01	32.94	9.73	34.12
PK	7.4404G	51.13	74.00	-22.87	13.05	3	Vertical	177	1.78	-	38.08	36.24	11.30	34.49

BT-BR(1Mbps)

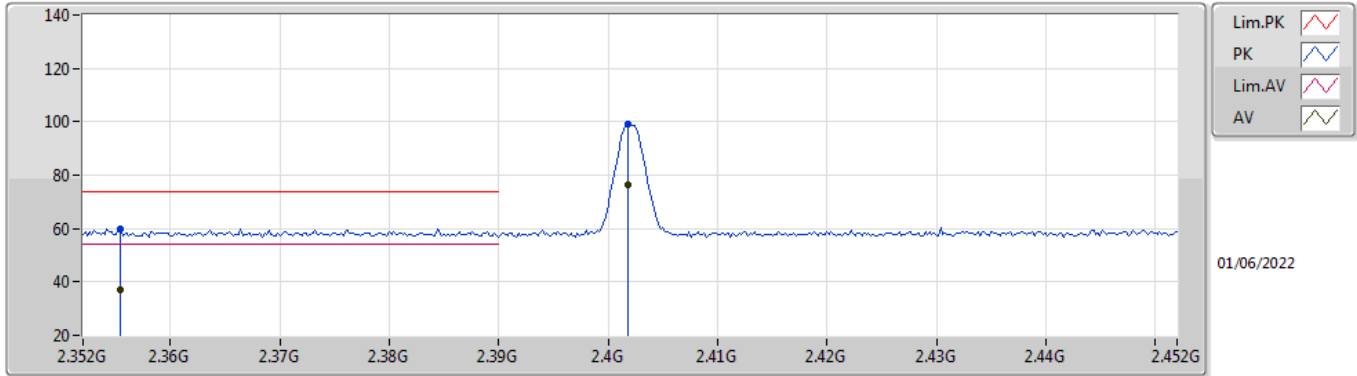
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9599G	24.20	54.00	-29.80	8.55	3	Horizontal	13	1.08	-	15.65	32.94	9.73	34.12
AV	7.43776G	28.00	54.00	-26.00	13.06	3	Horizontal	129.8	1.94	-	14.94	36.25	11.30	34.49
PK	4.9599G	46.70	74.00	-27.30	8.55	3	Horizontal	13	1.08	-	38.15	32.94	9.73	34.12
PK	7.43776G	50.50	74.00	-23.50	13.06	3	Horizontal	129.8	1.94	-	37.44	36.25	11.30	34.49

BT-EDR(3Mbps)

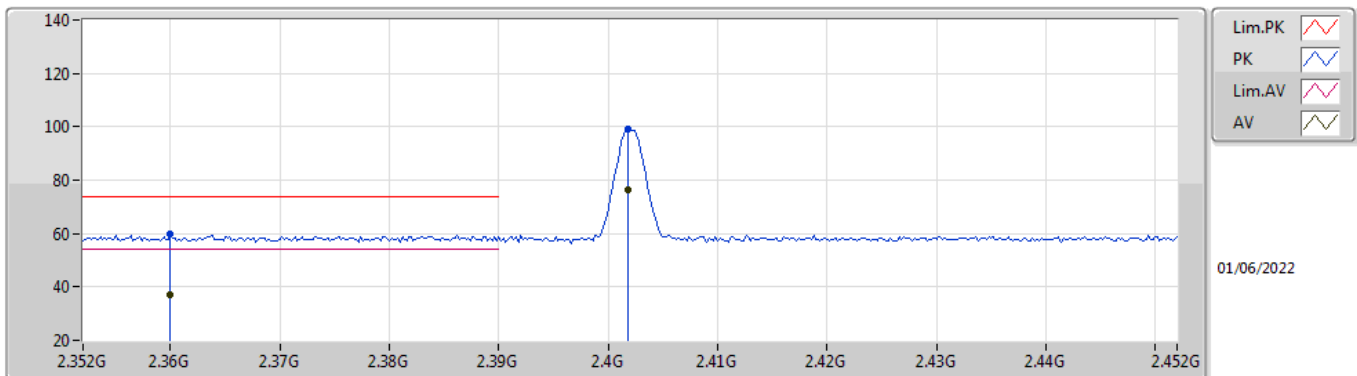
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3554G	37.31	54.00	-16.69	35.47	3	Vertical	230	2.56	-	1.84	27.21	8.26	-
AV	2.4018G	76.45	Inf	-Inf	35.60	3	Vertical	230	2.56	-	40.85	27.31	8.29	-
PK	2.3554G	59.81	74.00	-14.19	35.47	3	Vertical	230	2.56	-	24.34	27.21	8.26	-
PK	2.4018G	98.95	Inf	-Inf	35.60	3	Vertical	230	2.56	-	63.35	27.31	8.29	-

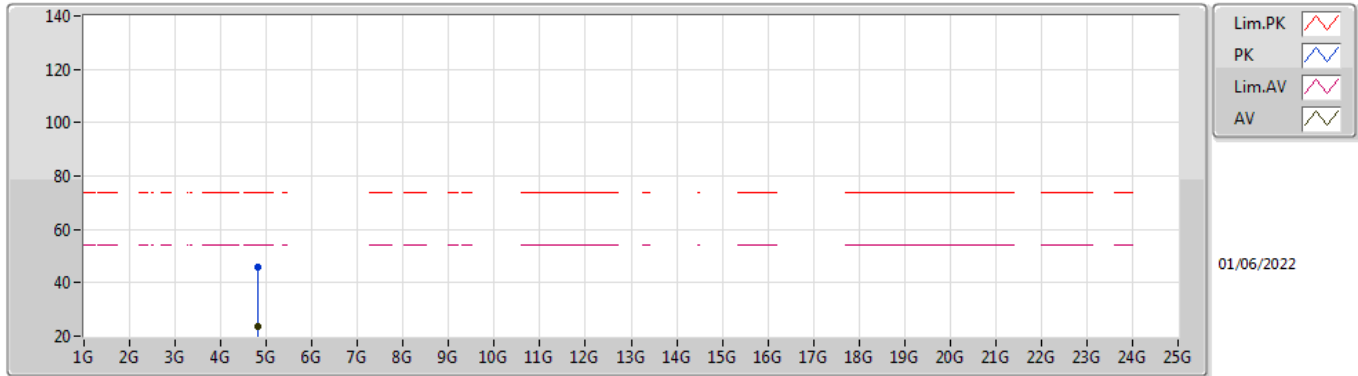
BT-EDR(3Mbps)

2402MHz_TX



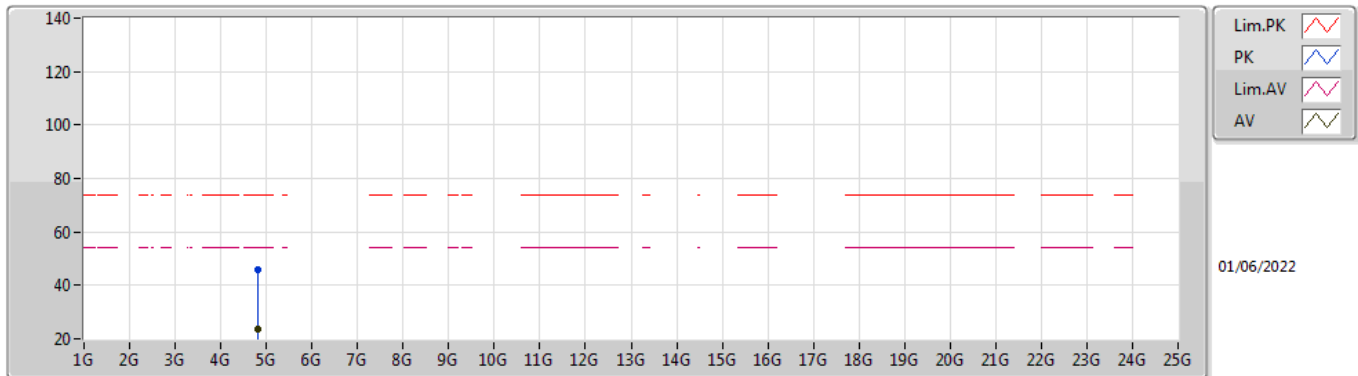
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AV	2.36G	37.09	54.00	-16.91	35.48	3	Horizontal	306	1.03	-	1.61	27.22	8.26	-
AV	2.4018G	76.41	Inf	-Inf	35.60	3	Horizontal	306	1.03	-	40.81	27.31	8.29	-
PK	2.36G	59.59	74.00	-14.41	35.48	3	Horizontal	306	1.03	-	24.11	27.22	8.26	-
PK	2.4018G	98.91	Inf	-Inf	35.60	3	Horizontal	306	1.03	-	63.31	27.31	8.29	-

BT-EDR(3Mbps)
2402MHz_TX



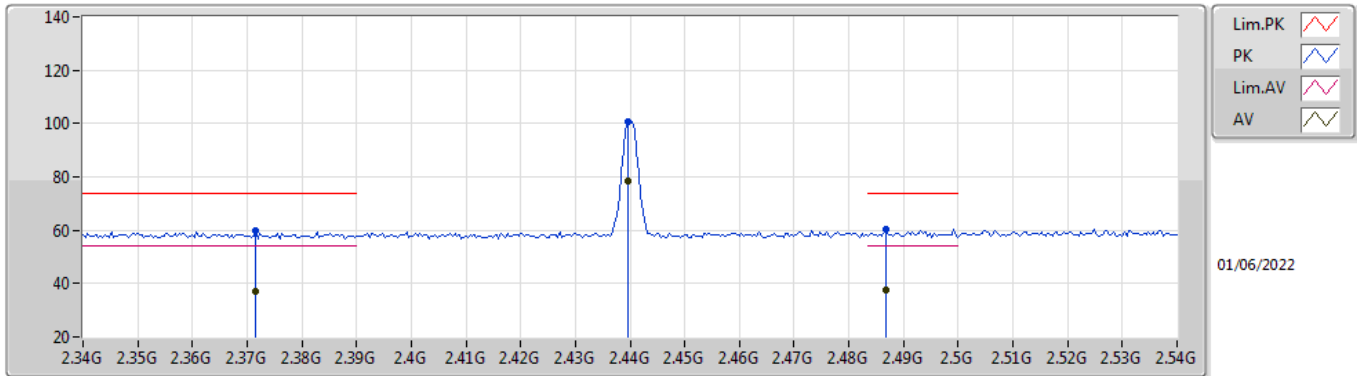
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80444G	23.48	54.00	-30.52	7.99	3	Vertical	284	1.03	-	15.49	32.51	9.67	34.19
PK	4.80444G	45.98	74.00	-28.02	7.99	3	Vertical	284	1.03	-	37.99	32.51	9.67	34.19

BT-EDR(3Mbps)
2402MHz_TX



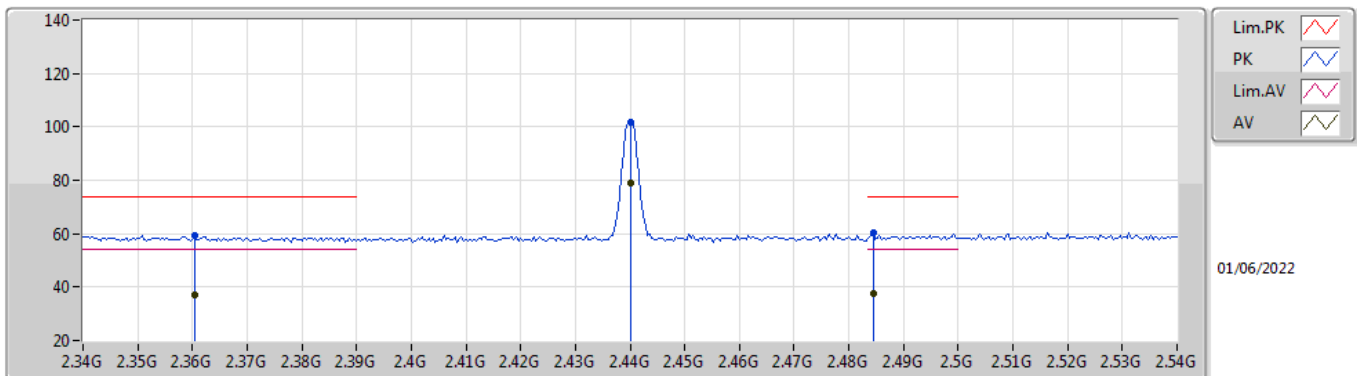
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80058G	23.55	54.00	-30.45	7.97	3	Horizontal	91	1.50	-	15.58	32.50	9.67	34.20
PK	4.80058G	46.05	74.00	-27.95	7.97	3	Horizontal	91	1.50	-	38.08	32.50	9.67	34.20

BT-EDR(3Mbps)
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3716G	37.28	54.00	-16.72	35.51	3	Vertical	228	2.46	-	1.77	27.24	8.27	-
AV	2.4396G	78.41	Inf	-Inf	35.78	3	Vertical	228	2.46	-	42.63	27.46	8.32	-
AV	2.4868G	37.69	54.00	-16.31	36.07	3	Vertical	228	2.46	-	1.62	27.72	8.35	-
PK	2.3716G	59.78	74.00	-14.22	35.51	3	Vertical	228	2.46	-	24.27	27.24	8.27	-
PK	2.4396G	100.91	Inf	-Inf	35.78	3	Vertical	228	2.46	-	65.13	27.46	8.32	-
PK	2.4868G	60.19	74.00	-13.81	36.07	3	Vertical	228	2.46	-	24.12	27.72	8.35	-

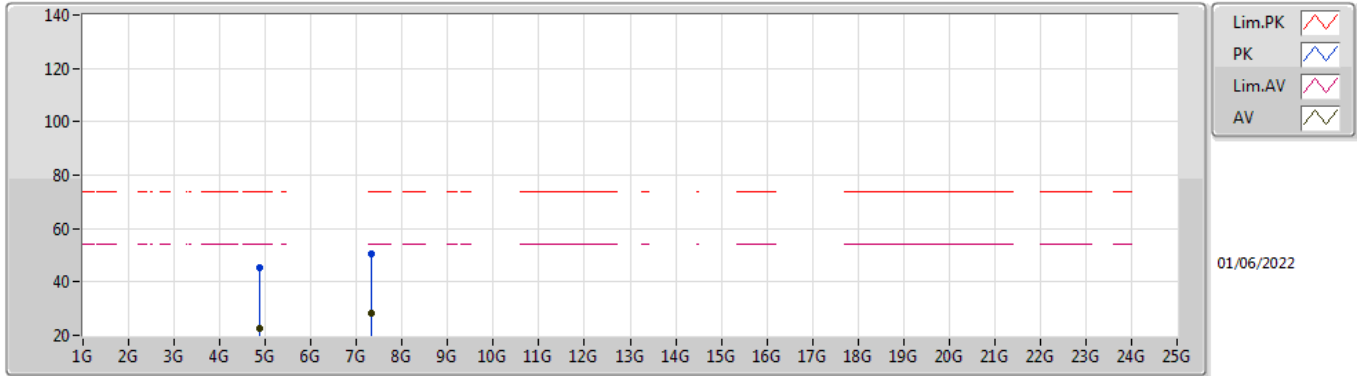
BT-EDR(3Mbps)
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3604G	36.98	54.00	-17.02	35.48	3	Horizontal	303	1.00	-	1.50	27.22	8.26	-
AV	2.44G	79.16	Inf	-Inf	35.78	3	Horizontal	303	1.00	-	43.38	27.46	8.32	-
AV	2.4844G	37.81	54.00	-16.19	36.05	3	Horizontal	303	1.00	-	1.76	27.71	8.34	-
PK	2.3604G	59.48	74.00	-14.52	35.48	3	Horizontal	303	1.00	-	24.00	27.22	8.26	-
PK	2.44G	101.66	Inf	-Inf	35.78	3	Horizontal	303	1.00	-	65.88	27.46	8.32	-
PK	2.4844G	60.31	74.00	-13.69	36.05	3	Horizontal	303	1.00	-	24.26	27.71	8.34	-

BT-EDR(3Mbps)

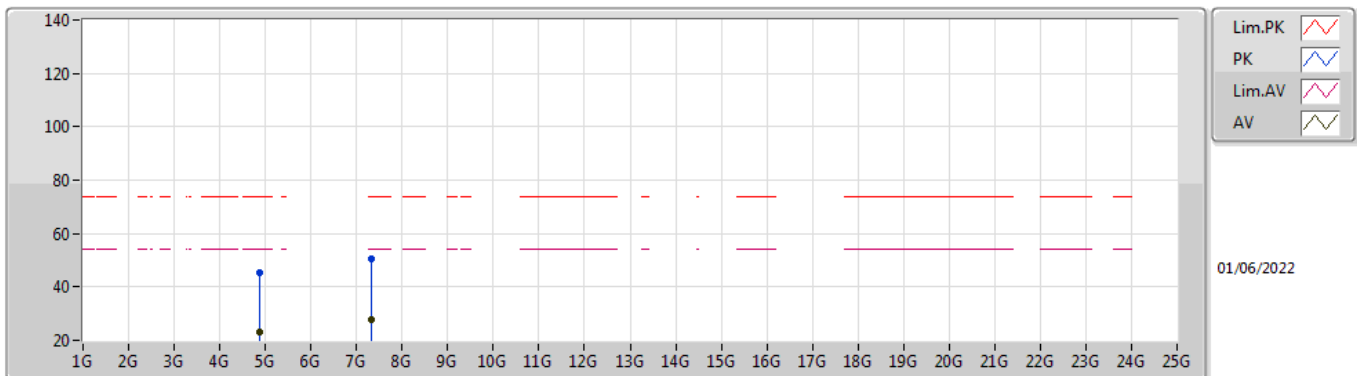
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88328G	22.72	54.00	-31.28	8.21	3	Vertical	110	2.55	-	14.51	32.67	9.70	34.16
AV	7.32186G	28.19	54.00	-25.81	13.46	3	Vertical	205	1.04	-	14.73	36.64	11.32	34.50
PK	4.88328G	45.22	74.00	-28.78	8.21	3	Vertical	110	2.55	-	37.01	32.67	9.70	34.16
PK	7.32186G	50.69	74.00	-23.31	13.46	3	Vertical	205	1.04	-	37.23	36.64	11.32	34.50

BT-EDR(3Mbps)

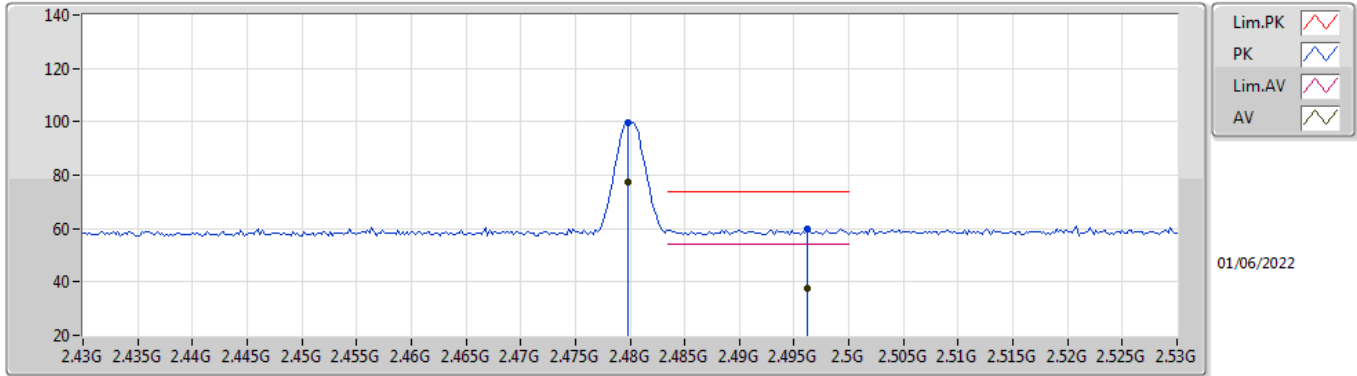
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87576G	23.09	54.00	-30.91	8.19	3	Horizontal	1	1.50	-	14.90	32.65	9.70	34.16
AV	7.31582G	28.01	54.00	-25.99	13.45	3	Horizontal	71	1.12	-	14.56	36.63	11.32	34.50
PK	4.87576G	45.59	74.00	-28.41	8.19	3	Horizontal	1	1.50	-	37.40	32.65	9.70	34.16
PK	7.31582G	50.51	74.00	-23.49	13.45	3	Horizontal	71	1.12	-	37.06	36.63	11.32	34.50

BT-EDR(3Mbps)

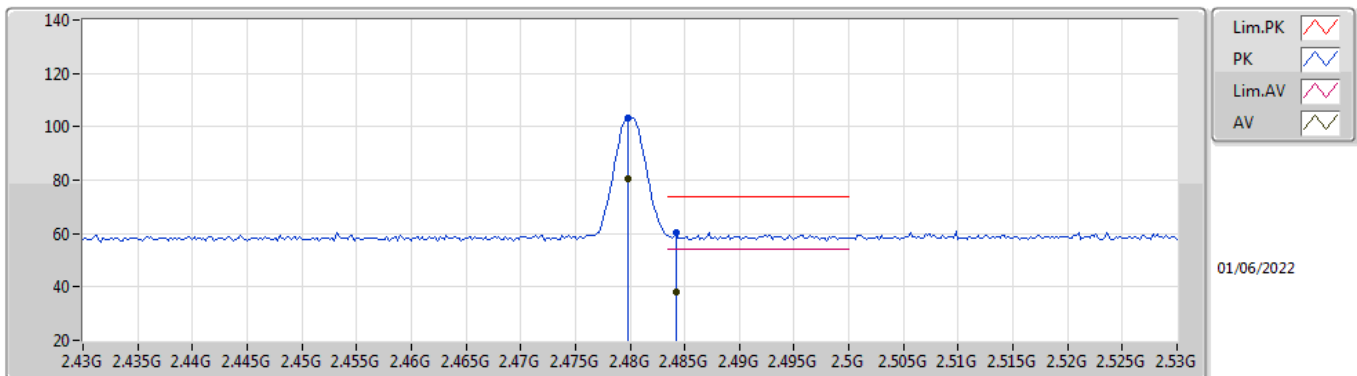
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	77.17	Inf	-Inf	36.02	3	Vertical	256	1.38	-	41.15	27.68	8.34	-
AV	2.4962G	37.43	54.00	-16.57	36.13	3	Vertical	256	1.38	-	1.30	27.78	8.35	-
PK	2.4798G	99.67	Inf	-Inf	36.02	3	Vertical	256	1.38	-	63.65	27.68	8.34	-
PK	2.4962G	59.93	74.00	-14.07	36.13	3	Vertical	256	1.38	-	23.80	27.78	8.35	-

BT-EDR(3Mbps)

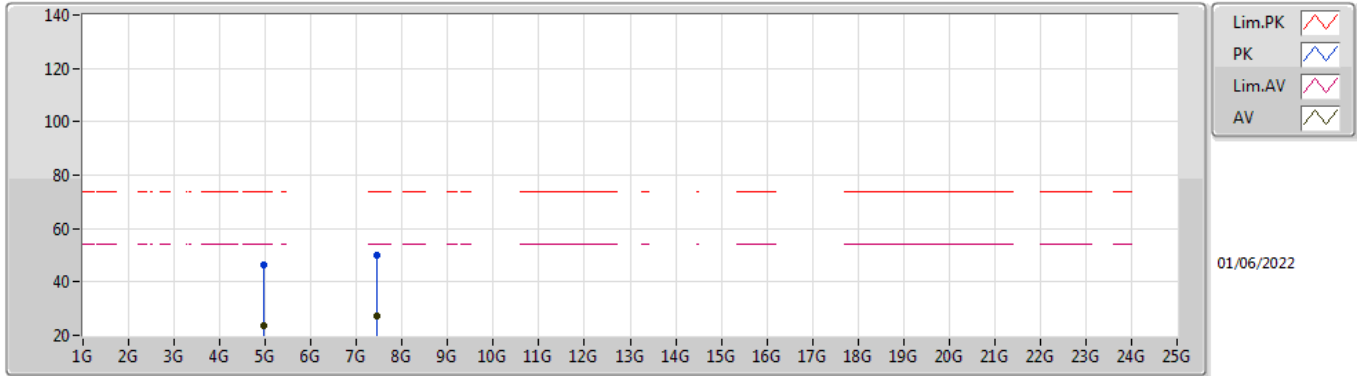
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	80.69	Inf	-Inf	36.02	3	Horizontal	297	2.73	-	44.67	27.68	8.34	-
AV	2.4842G	37.90	54.00	-16.10	36.05	3	Horizontal	297	2.73	-	1.85	27.71	8.34	-
PK	2.4798G	103.19	Inf	-Inf	36.02	3	Horizontal	297	2.73	-	67.17	27.68	8.34	-
PK	2.4842G	60.40	74.00	-13.60	36.05	3	Horizontal	297	2.73	-	24.35	27.71	8.34	-

BT-EDR(3Mbps)

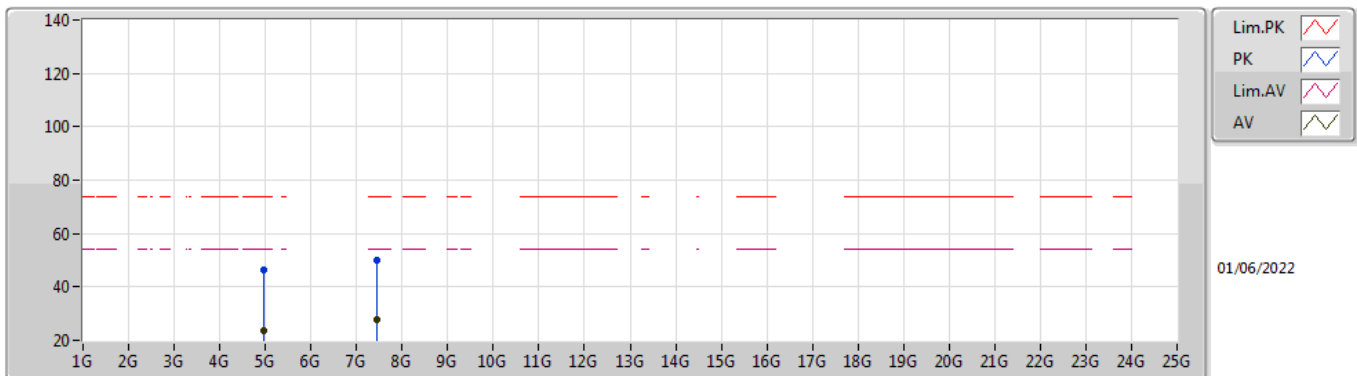
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9648G	23.77	54.00	-30.23	8.58	3	Vertical	335	2.35	-	15.19	32.96	9.74	34.12
AV	7.4389G	27.48	54.00	-26.52	13.05	3	Vertical	14	2.45	-	14.43	36.24	11.30	34.49
PK	4.9648G	46.27	74.00	-27.73	8.58	3	Vertical	335	2.35	-	37.69	32.96	9.74	34.12
PK	7.4389G	49.98	74.00	-24.02	13.05	3	Vertical	14	2.45	-	36.93	36.24	11.30	34.49

BT-EDR(3Mbps)

2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9595G	23.83	54.00	-30.17	8.55	3	Horizontal	330	1.50	-	15.28	32.94	9.73	34.12
AV	7.44408G	27.67	54.00	-26.33	13.03	3	Horizontal	272	2.07	-	14.64	36.22	11.30	34.49
PK	4.9595G	46.33	74.00	-27.67	8.55	3	Horizontal	330	1.50	-	37.78	32.94	9.73	34.12
PK	7.44408G	50.17	74.00	-23.83	13.03	3	Horizontal	272	2.07	-	37.14	36.22	11.30	34.49