

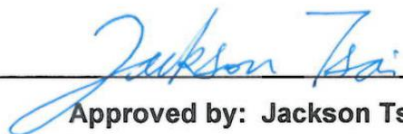


FCC Radio Test Report

FCC ID : 2BAFM-HU123
Equipment : Wearable Communication Device
Brand Name : Humane
Model Name : HU0123
Applicant : Humane, Inc.
969 Folsom Street San Francisco, CA 94107 United States
Manufacturer : Humane, Inc.
969 Folsom Street San Francisco, CA 94107 United States
Standard : 47 CFR FCC Part 15.247

The product was received on Apr. 27, 2023, and testing was started from May 08, 2023 and completed on Jun. 02, 2023. 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
FR342647AC	01	Initial issue of report	Jun. 21, 2023
FR342647AC	02	Add plots of duty cycle (This report is the latest version replacing for the report issued on Jun. 21, 2023.)	Jul. 21, 2023



Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
-	15.207	AC Power-line Conducted Emissions	Not Required	Only employ battery power.
3.1	15.247(a)	DTS Bandwidth	PASS	-
3.2	15.247(b)	Maximum Conducted Output Power	PASS	-
3.3	15.247(e)	Power Spectral Density	PASS	-
3.4	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.5	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: Amber Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX
2.4-2.4835GHz	VHT20	20	1TX
2.4-2.4835GHz	VHT40	40	1TX

Note:

- ◆ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ◆ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ◆ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ◆ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Humane	13EP-5DQ1T01	PIFA antenna	Microwave wave Coaxial Connectors with Switch SWJ

Ant.	Gain (dBi)									
	V-Polarization					H-Polarization				
	2.4G	5G(MHz)			BT	2.4G	5G(MHz)			BT
		5200	5500	5775			5200	5500	5775	
1	-4.57	-2.66	-5.37	-4.88	-4.57	-4.63	-3.58	-4.88	-4.48	-4.63

For 2.4GHz function:

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

Ant. 1 could transmit/receive.

For BT function:

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

Ant. 1 could transmit/receive.

For 5GHz function:

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

Ant. 1 could transmit/receive.



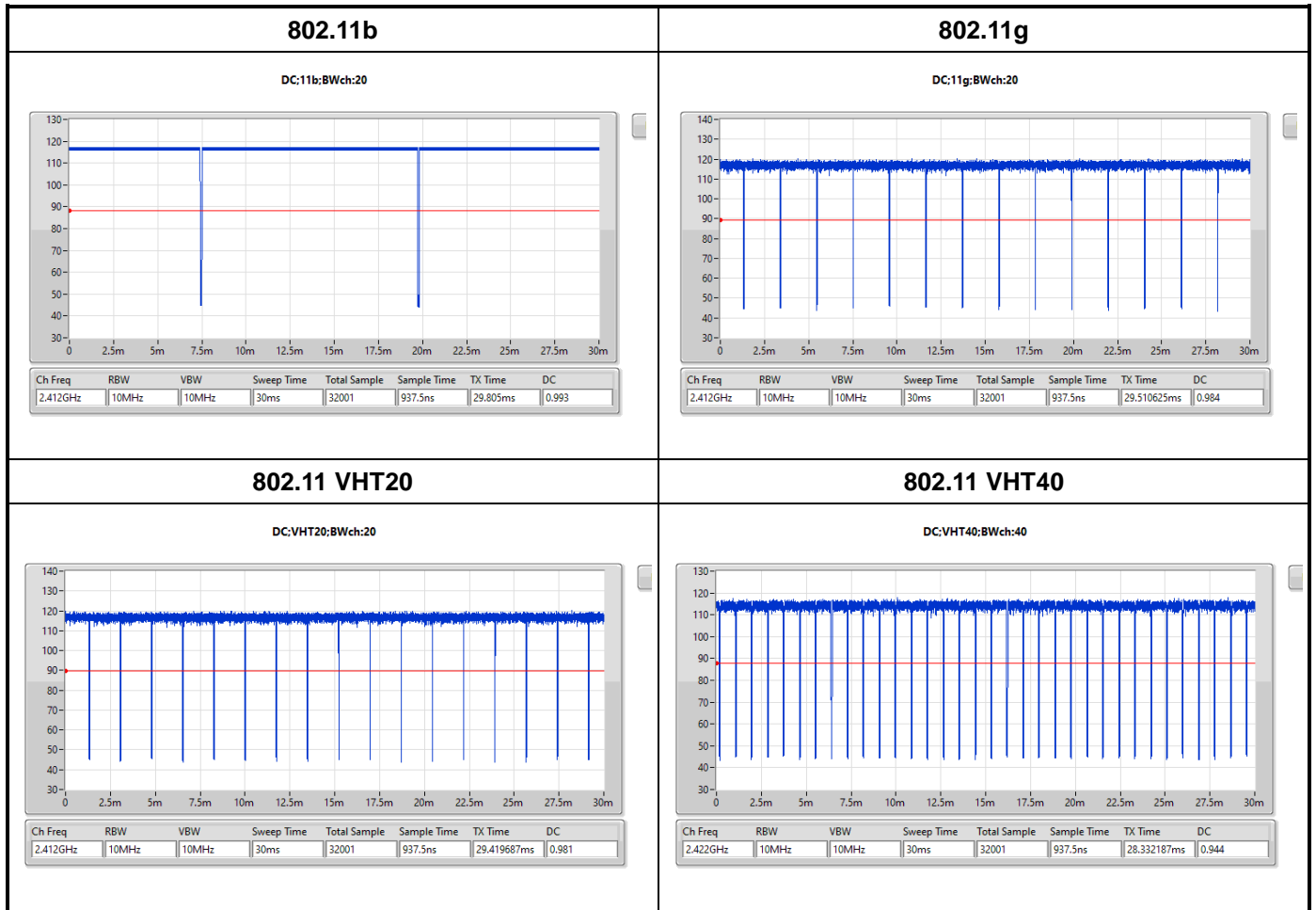
1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter / Host system / Battery		
EUT Function	<input checked="" type="checkbox"/> Point-to-multipoint	<input type="checkbox"/> Point-to-point	
Beamforming Function	<input type="checkbox"/> With beamforming	<input checked="" type="checkbox"/> Without beamforming	
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
802.11b_Nss1,(1Mbps)_1TX	0.993	0.03	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g_Nss1,(6Mbps)_1TX	0.984	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
VHT20_Nss1,(MCS0)_1TX	0.981	0.08	n/a (DC>=0.98)	n/a (DC>=0.98)
VHT40_Nss1,(MCS0)_1TX	0.944	0.25	840.937u	3k

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				
<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
RF Conducted	TH01-HY	Luby hsu	22.6~23.4°C / 50~52%	16/May/2023
Radiated	03CH02-HY	Daniel Lin	23.4~24.9°C / 52~55%	08/May/2023~27/May/2023
Radiated (Co-location)	03CH02-HY	Daniel Lin	22.1~23.2°C / 54~62%	02/Jun/2023
<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
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Receiver Radiated Unwanted Emissions	4.8 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	qdart_conn.win.1.0_installer_00089.1
-----------------------	--------------------------------------

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	18.5
2437MHz	18.5
2462MHz	18.5
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	17
2437MHz	17
2462MHz	17
VHT20_Nss1,(MCS0)_1TX	-
2412MHz	17
2437MHz	17
2462MHz	17
VHT40_Nss1,(MCS0)_1TX	-
2422MHz	16.5
2437MHz	16.5
2452MHz	16.5

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Adapter + Charge Pad 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
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	Bluetooth+WLAN 2.4GHz
2	Bluetooth+WLAN 5GHz
Refer to Appendix F for Radiated Emission Co-location.	

2.3 Accessories

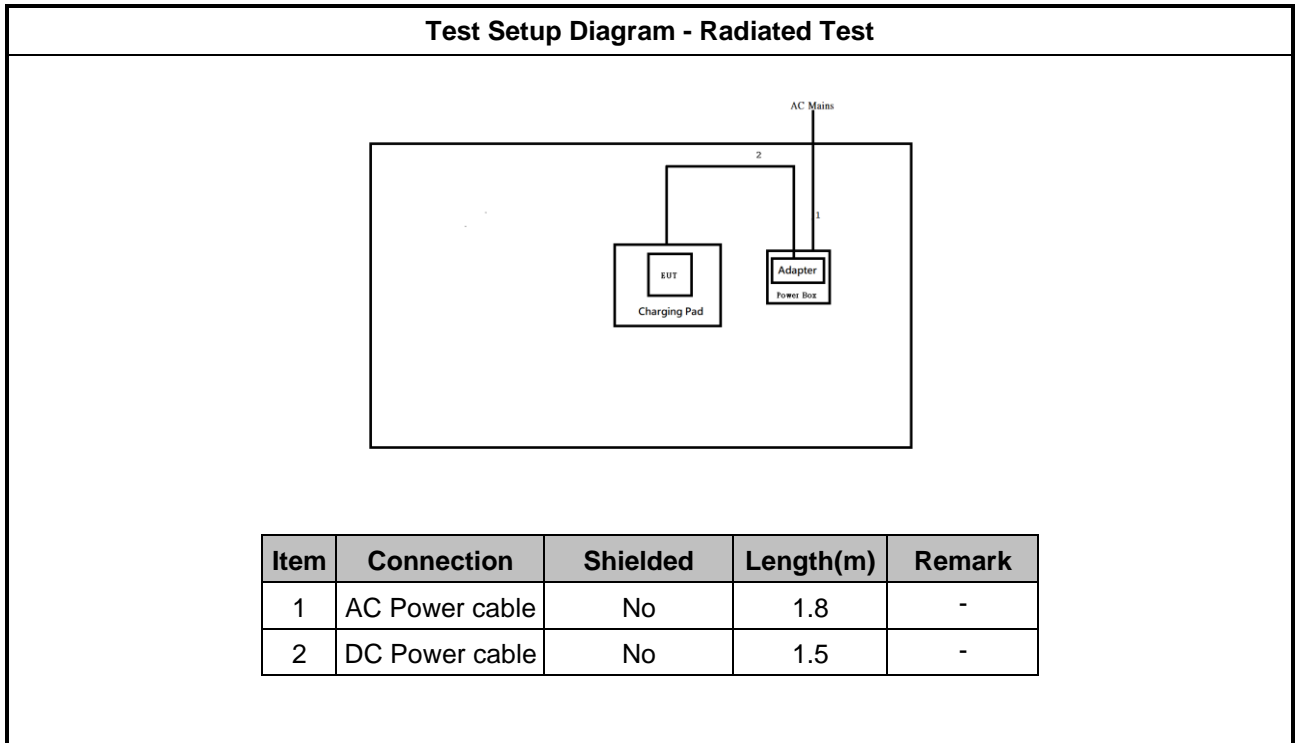
Accessories				
AC Adapter	Brand Name	Humane	Model Name	HU0423
	Power Rating	I/P: 100 – 240 V, 50-60 Hz 0.3 A, O/P: 5.0 V, 1.5 A, 7.5 W		
Battery	Brand Name	Li-Shen	Model Name	DAKP292233SA
	Power Rating	3.87 Vdc, 281 mAh	Type	Li-ion
Charge Pad	Brand Name	Humane	Model Name	HU0323
	Power Rating	I/P: 5 V, 1.5 A, O/P: 5 V, 1.5 A		
USB Cable	Brand Name	Humane	Model Name	HU0523
	DC Power Cable	1.2 meter, Braiding Cable, with back shield		
Wireless Charger	Brand Name	Humane	Model Name	HU0223

Reminder: Regarding to more detail and other information, please refer to user manual.

2.4 Support Equipment

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	USB Digital Tester	JUWEI	J7-c	-	-

2.5 Test Setup Diagram



3 Transmitter Test Result

3.1 DTS Bandwidth

3.1.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

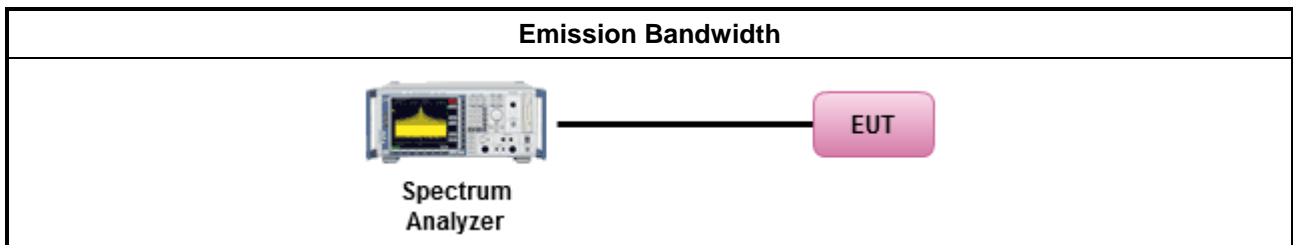
3.1.2 Measuring Instruments

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"> ▪ For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
<input type="checkbox"/> Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS):
	<ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:	
	<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS)
	<ul style="list-style-type: none"> - Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
<p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

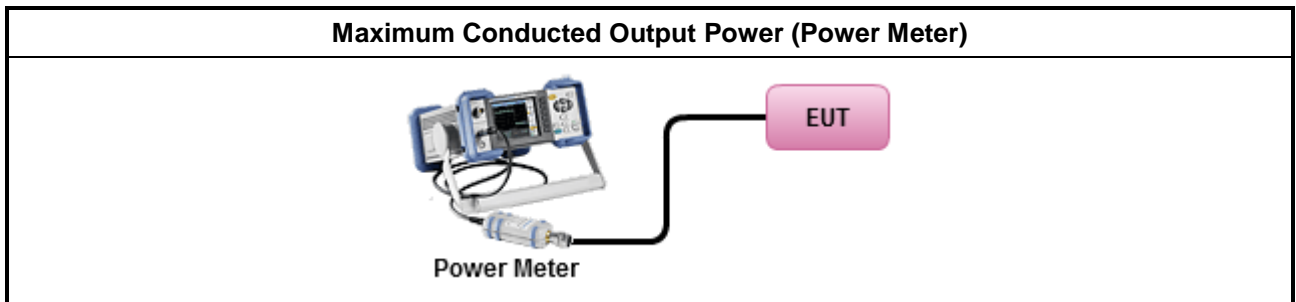
3.2.2 Measuring Instruments

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"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
<ul style="list-style-type: none"> ▪ Maximum Average Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. 	
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Power Spectral Density

3.3.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> Power Spectral Density (PSD) ≤ 8 dBm/3kHz

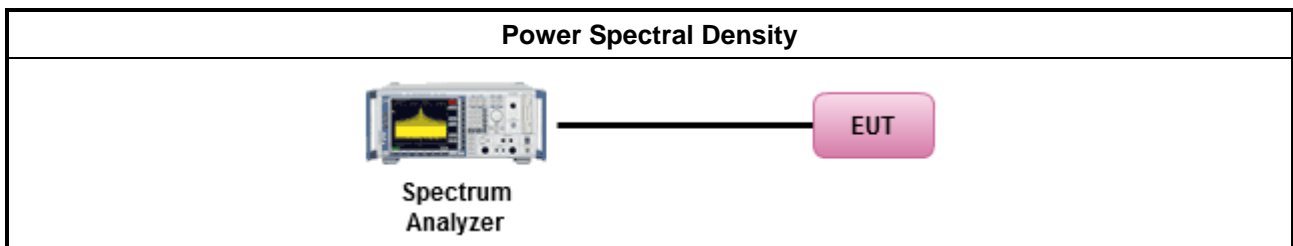
3.3.2 Measuring Instruments

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"> Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
	<ul style="list-style-type: none"> For conducted measurement. <ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Refer as Appendix C

3.4 Emissions in Non-restricted Frequency Bands

3.4.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30

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 level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.

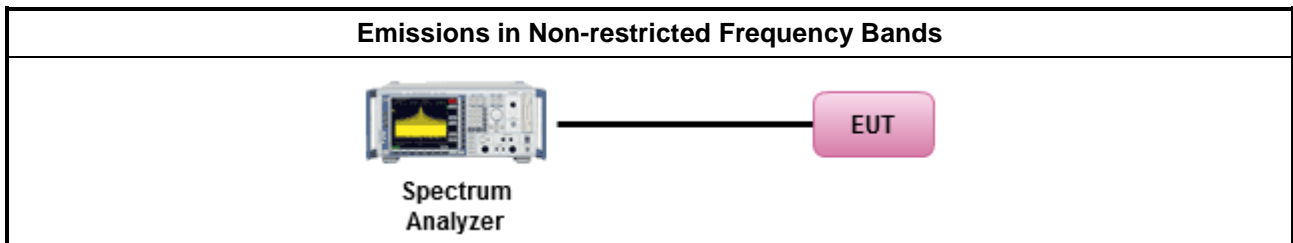
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.4.4 Test Setup



3.4.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix D

3.5 Emissions in Restricted Frequency Bands

3.5.1 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.

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

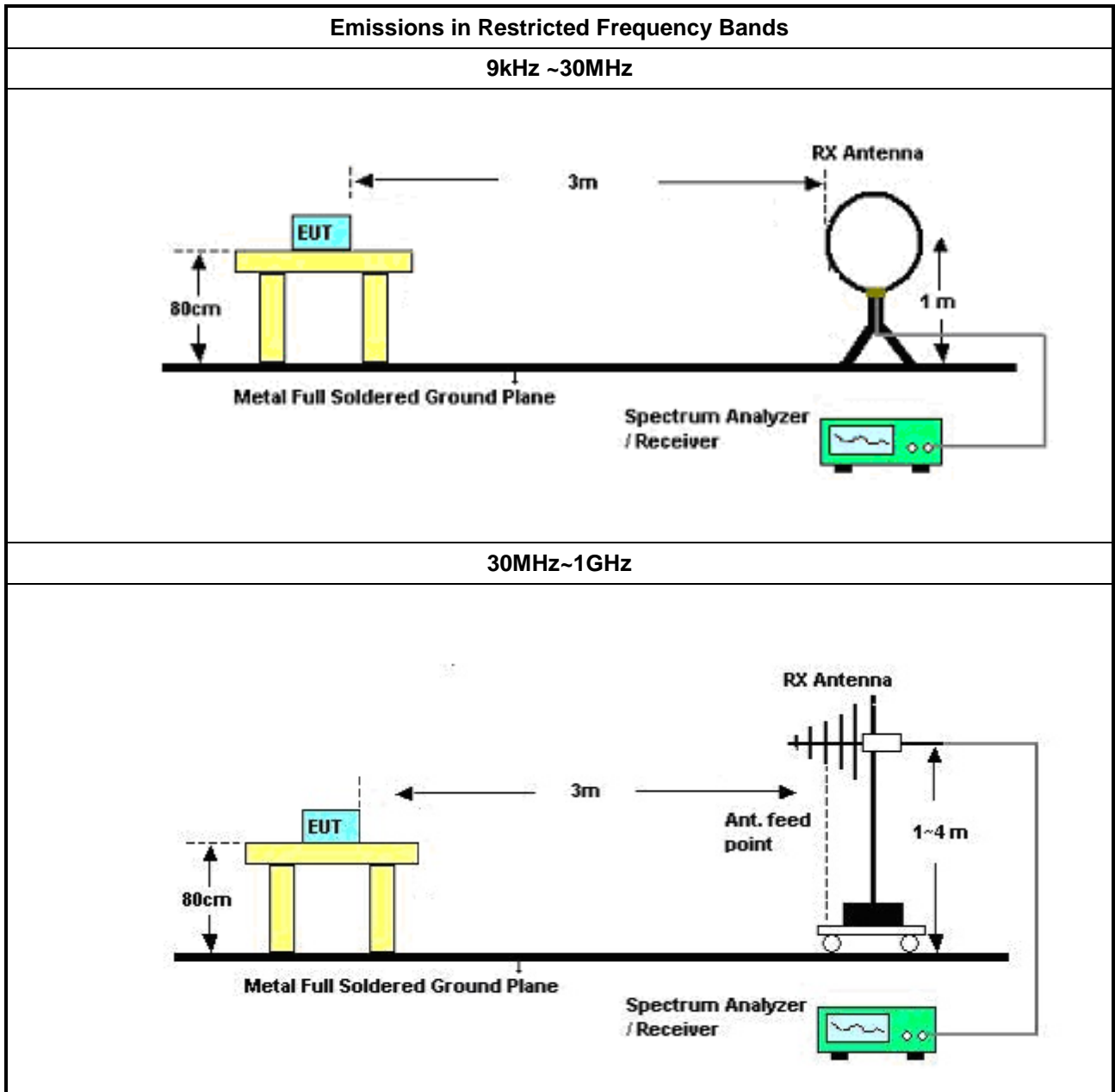
Test Method	
	<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below:
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below:
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
	<ul style="list-style-type: none"> ▪ Use the following spectrum analyzer settings:
	<ul style="list-style-type: none"> ▪ Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	<ul style="list-style-type: none"> ▪ Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as ANSI C63.10, clause 11.12.2.5.3, VBW=1/T. For the duty cycle, please refer to 1.1.4.
	<ul style="list-style-type: none"> ▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	<ul style="list-style-type: none"> ▪ 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.
	<ul style="list-style-type: none"> ▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

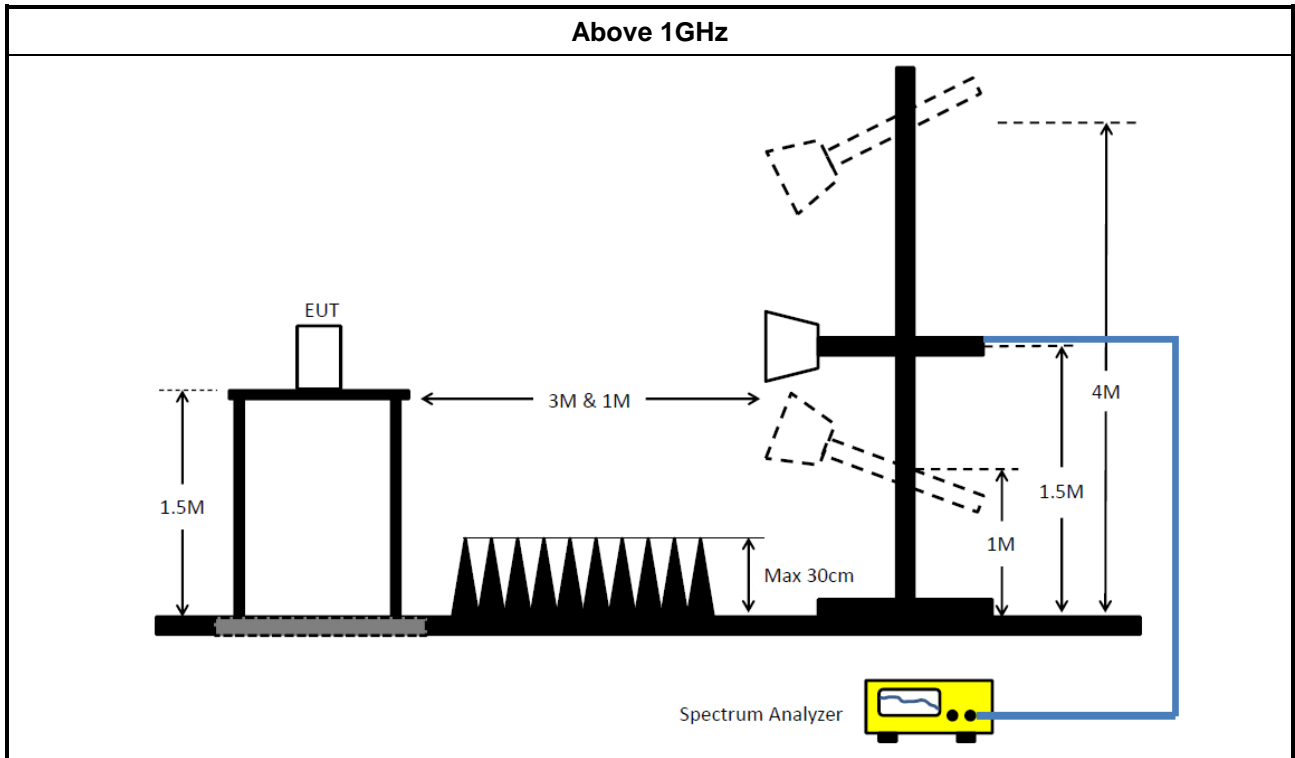
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.5.5 Test Setup





3.5.6 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.

3.5.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix E



4 Test Equipment and Calibration Data

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	10/Apr/2023	09/Apr/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	15/Feb/2023	14/Feb/2024
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	15/Feb/2023	14/Feb/2024
SENSE-15247_DTS	Sporton	V5.11.5	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	31/Jul/2022	30/Jul/2023
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	17/Mar/2023	16/Mar/2024
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	28/Jun/2022	27/Jun/2023
Microwave Preampfier	Agilent	8449B	3008A02373	1GHz~26.5GHz	02/Nov/2022	01/Nov/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	28/Aug/2022	27/Aug/2023
RF Cable	MVE	400LL+SN 200207	03CH02-cable-02	9kHz~30MHz	20/Dec/2022	19/Dec/2023
RF Cable	MVE	400LL+SN 200207	03CH02-cable-02	30MHz~1GHz	20/Dec/2022	19/Dec/2023
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	03CH02-cable-01	1GHz~40GHz	10/Feb/2023	09/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	25/Mar/2023	24/Mar/2024
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	16/Mar/2023	15/Mar/2024
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	23/Mar/2023	22/Mar/2024
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	30/May/2022	29/May/2023



Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	17/Mar/2023	16/Mar/2024
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	02/Nov/2022	01/Nov/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	03CH02-cable-01	1GHz~40GHz	10/Feb/2023	09/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	25/Mar/2023	24/Mar/2024
Microwave Prempplier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	16/Mar/2023	15/Mar/2024



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	8.975M	13.913M	13M9G1D	8.05M	13.823M
802.11g_Nss1,(6Mbps)_1TX	15.875M	16.69M	16M7D1D	15.1M	16.668M
VHT20_Nss1,(MCS0)_1TX	15.775M	17.866M	17M9D1D	15.1M	17.816M
VHT40_Nss1,(MCS0)_1TX	35.8M	36.332M	36M3D1D	35.15M	36.232M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	8.525M	13.913M
2437MHz	Pass	500k	8.975M	13.823M
2462MHz	Pass	500k	8.05M	13.883M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	15.1M	16.668M
2437MHz	Pass	500k	15.375M	16.69M
2462MHz	Pass	500k	15.875M	16.69M
VHT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	15.1M	17.816M
2437MHz	Pass	500k	15.775M	17.866M
2462MHz	Pass	500k	15.575M	17.841M
VHT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	35.8M	36.332M
2437MHz	Pass	500k	35.15M	36.232M
2452MHz	Pass	500k	35.7M	36.282M

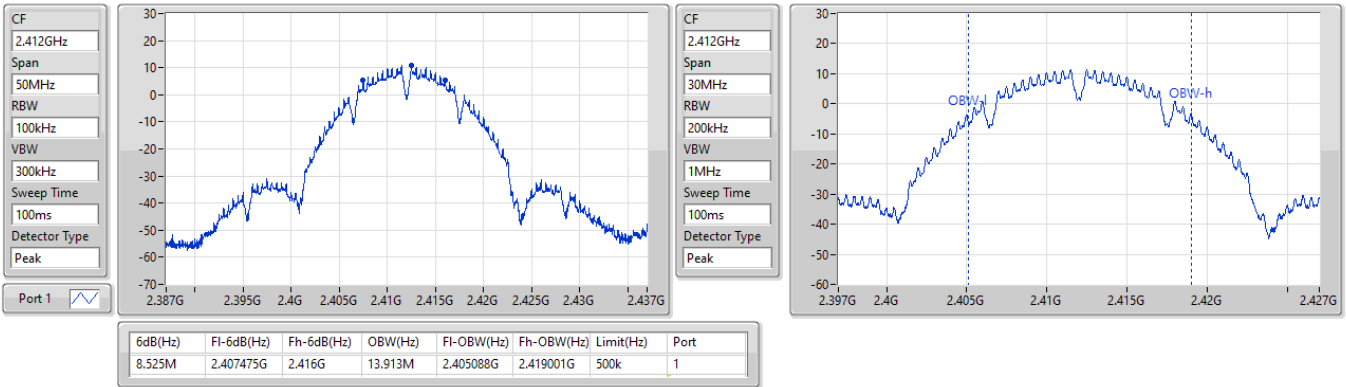
Port X-N dB = Port X 6dB down bandwidth;
 Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2412MHz

16/05/2023

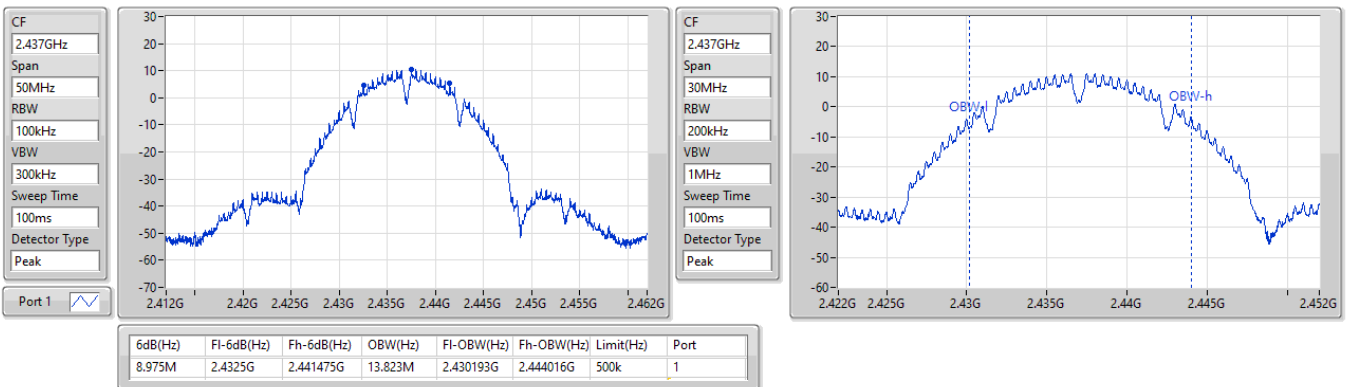


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2437MHz

16/05/2023



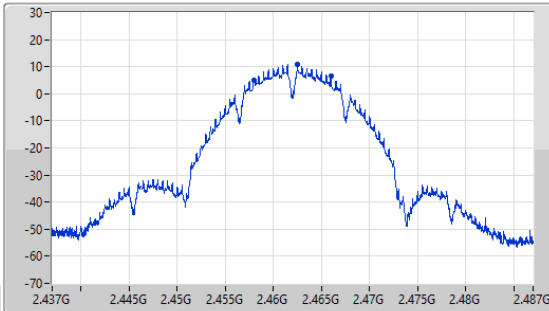
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

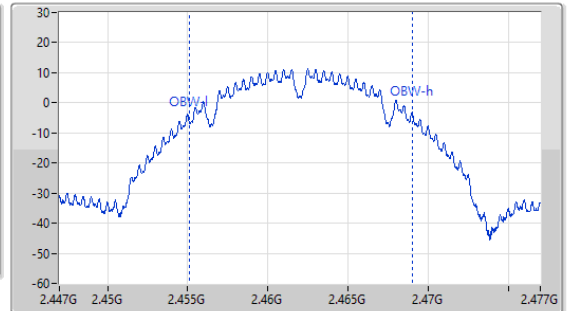
2462MHz

16/05/2023

CF
2.462GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
2.462GHz
Span
30MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.05M	2.45795G	2.466G	13.883M	2.455118G	2.469001G	500k	1

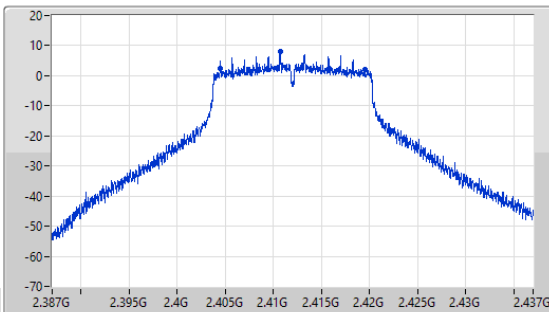
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

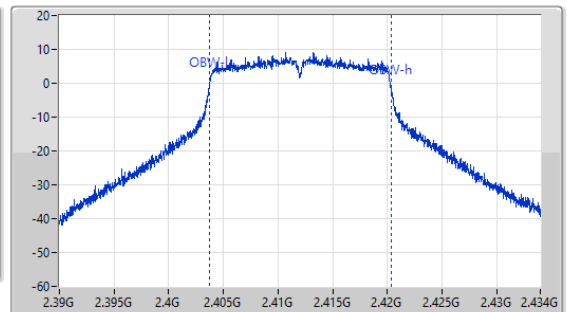
2412MHz

16/05/2023

CF
2.412GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
2.412GHz
Span
44MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



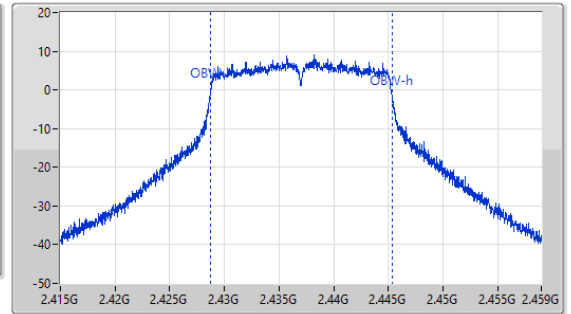
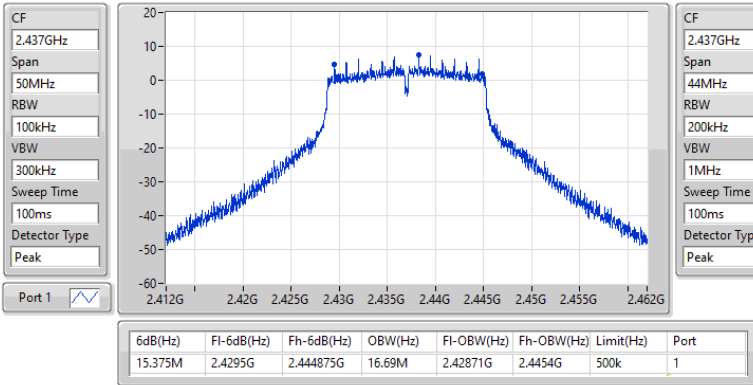
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.1M	2.404425G	2.419525G	16.668M	2.40371G	2.420378G	500k	1

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

2437MHz

16/05/2023

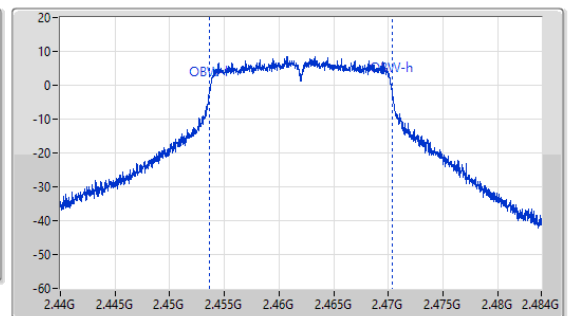
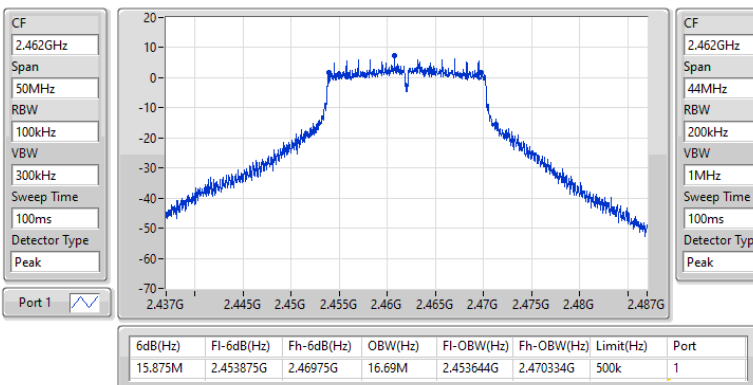


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

2462MHz

16/05/2023

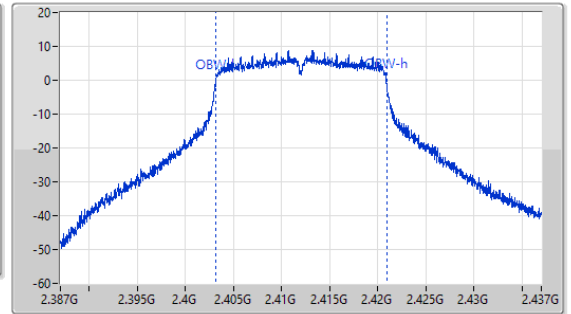
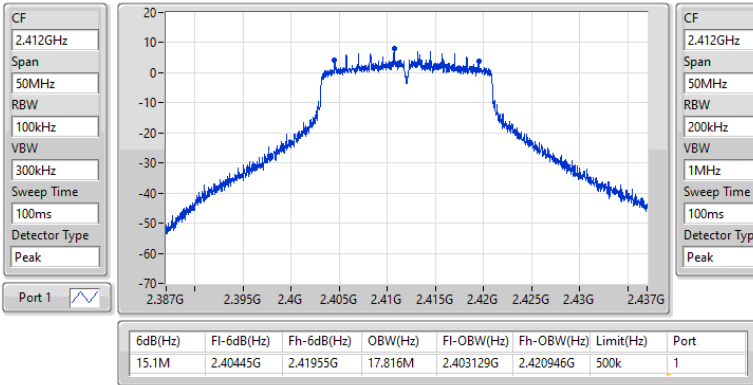


2.4-2.4835GHz_VHT20_Nss1,(MCS0)_1TX

EBW

2412MHz

16/05/2023

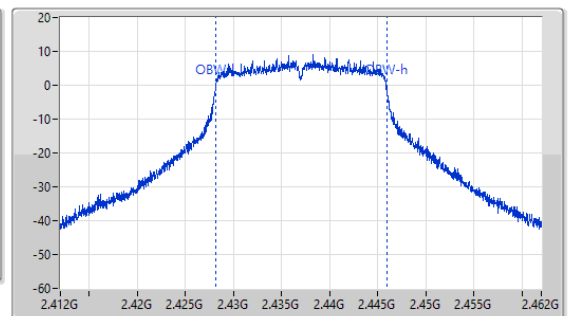
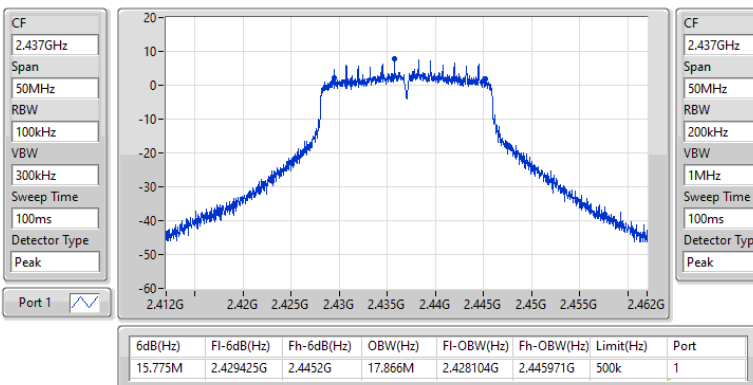


2.4-2.4835GHz_VHT20_Nss1,(MCS0)_1TX

EBW

2437MHz

16/05/2023

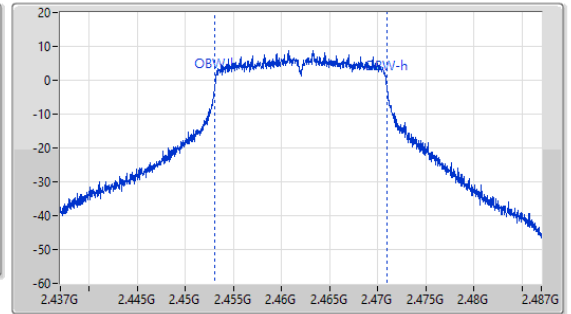
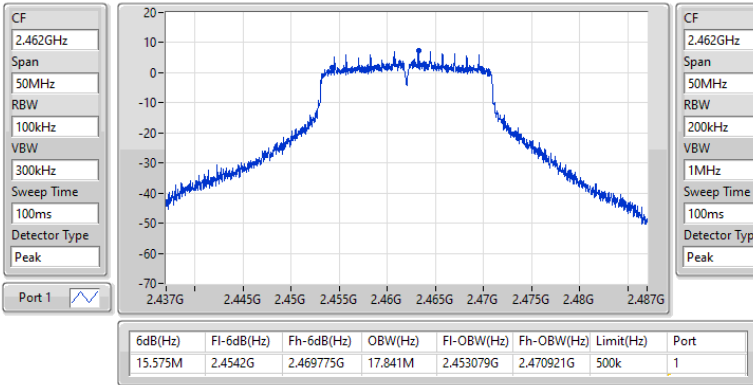


2.4-2.4835GHz_VHT20_Nss1,(MCS0)_1TX

EBW

2462MHz

16/05/2023

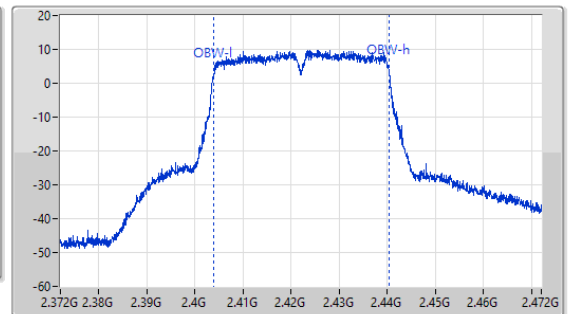
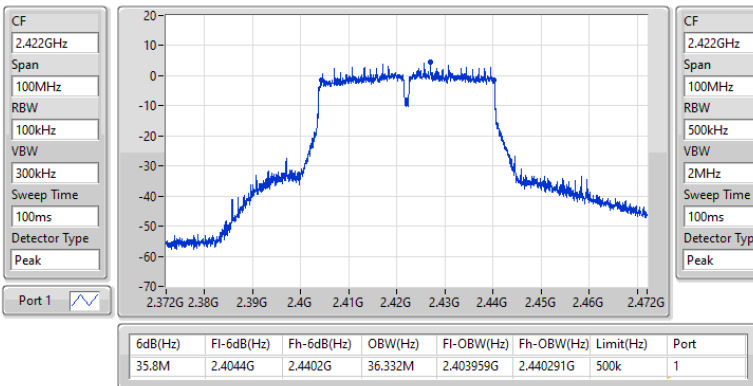


2.4-2.4835GHz_VHT40_Nss1,(MCS0)_1TX

EBW

2422MHz

16/05/2023

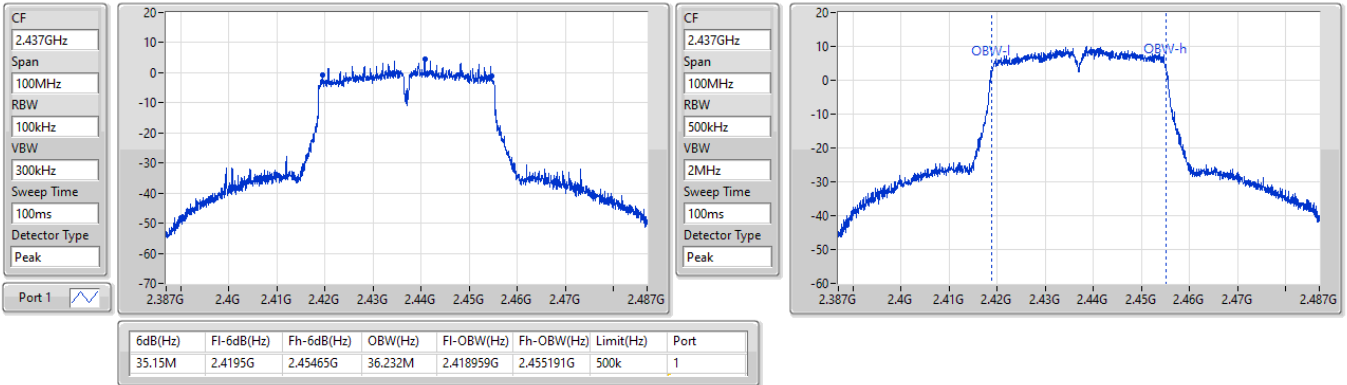


2.4-2.4835GHz_VHT40_Nss1,(MCS0)_1TX

EBW

2437MHz

16/05/2023

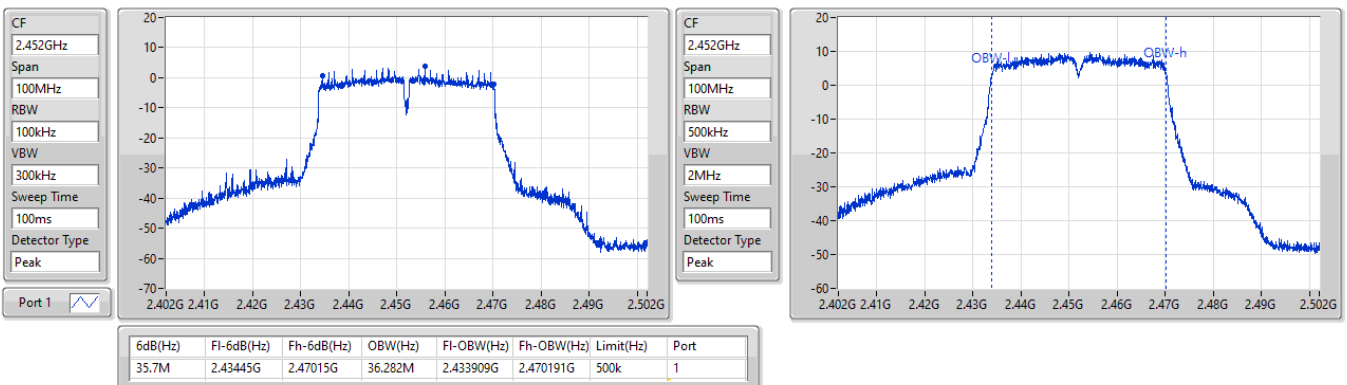


2.4-2.4835GHz_VHT40_Nss1,(MCS0)_1TX

EBW

2452MHz

16/05/2023





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	21.64	0.14588
802.11g_Nss1,(6Mbps)_1TX	22.32	0.17061
VHT20_Nss1,(MCS0)_1TX	22.19	0.16558
VHT40_Nss1,(MCS0)_1TX	23.52	0.22491



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-4.57	21.53	21.53	30.00
2437MHz	Pass	-4.57	21.38	21.38	30.00
2462MHz	Pass	-4.57	21.64	21.64	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-4.57	22.32	22.32	30.00
2437MHz	Pass	-4.57	22.12	22.12	30.00
2462MHz	Pass	-4.57	22.03	22.03	30.00
VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	-4.57	22.19	22.19	30.00
2437MHz	Pass	-4.57	22.09	22.09	30.00
2462MHz	Pass	-4.57	22.16	22.16	30.00
VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	-4.57	23.52	23.52	30.00
2437MHz	Pass	-4.57	23.18	23.18	30.00
2452MHz	Pass	-4.57	23.11	23.11	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	19.18	0.08279
802.11g_Nss1,(6Mbps)_1TX	17.27	0.05333
VHT20_Nss1,(MCS0)_1TX	17.23	0.05284
VHT40_Nss1,(MCS0)_1TX	17.39	0.05483



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-4.57	19.18	19.18	30.00
2437MHz	Pass	-4.57	19.06	19.06	30.00
2462MHz	Pass	-4.57	19.09	19.09	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-4.57	17.27	17.27	30.00
2437MHz	Pass	-4.57	17.25	17.25	30.00
2462MHz	Pass	-4.57	17.24	17.24	30.00
VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	-4.57	17.23	17.23	30.00
2437MHz	Pass	-4.57	17.13	17.13	30.00
2462MHz	Pass	-4.57	17.17	17.17	30.00
VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	-4.57	17.39	17.39	30.00
2437MHz	Pass	-4.57	17.06	17.06	30.00
2452MHz	Pass	-4.57	17.24	17.24	30.00

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



Summary

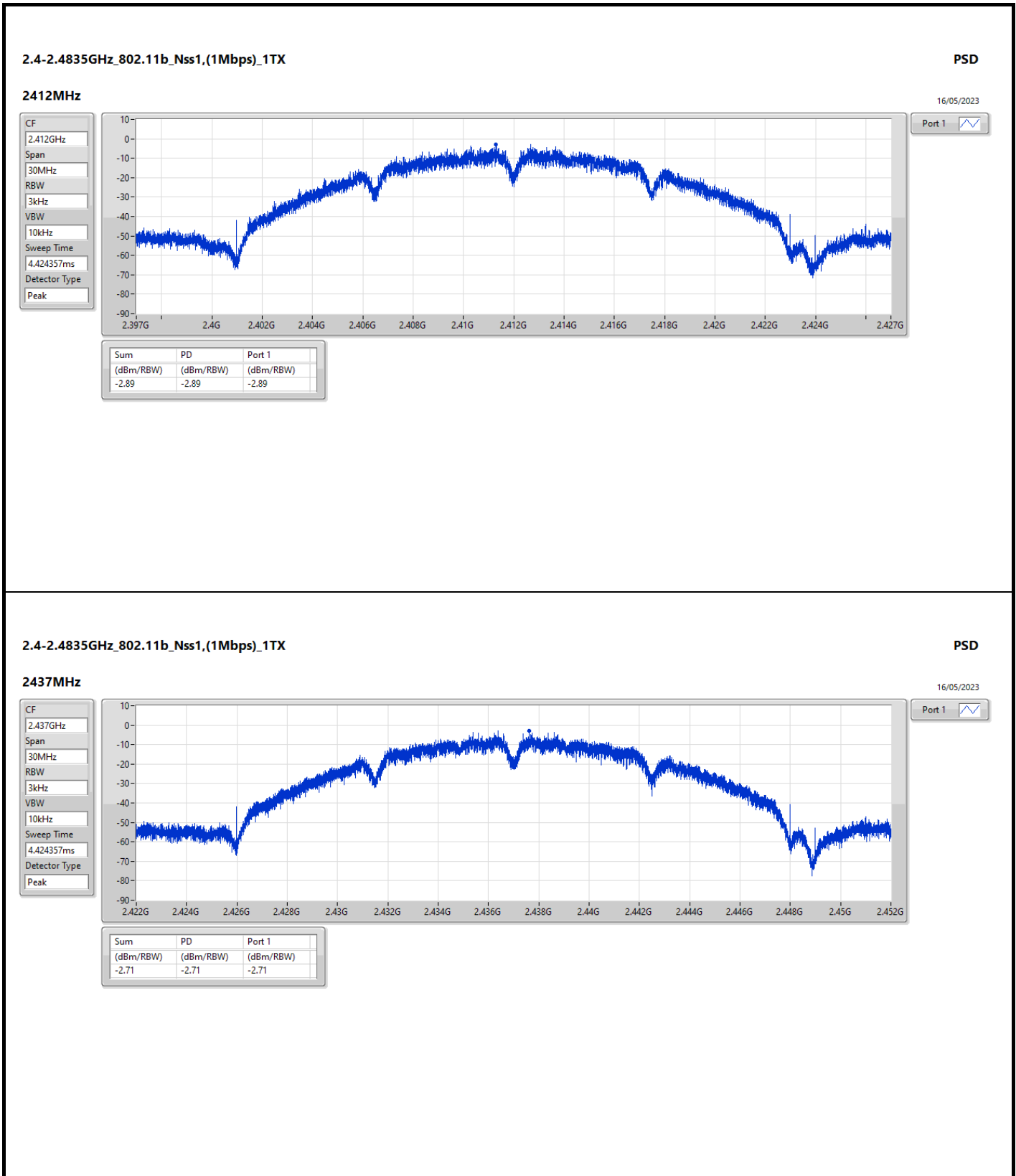
Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-2.59
802.11g_Nss1,(6Mbps)_1TX	-7.39
VHT20_Nss1,(MCS0)_1TX	-7.91
VHT40_Nss1,(MCS0)_1TX	-10.32

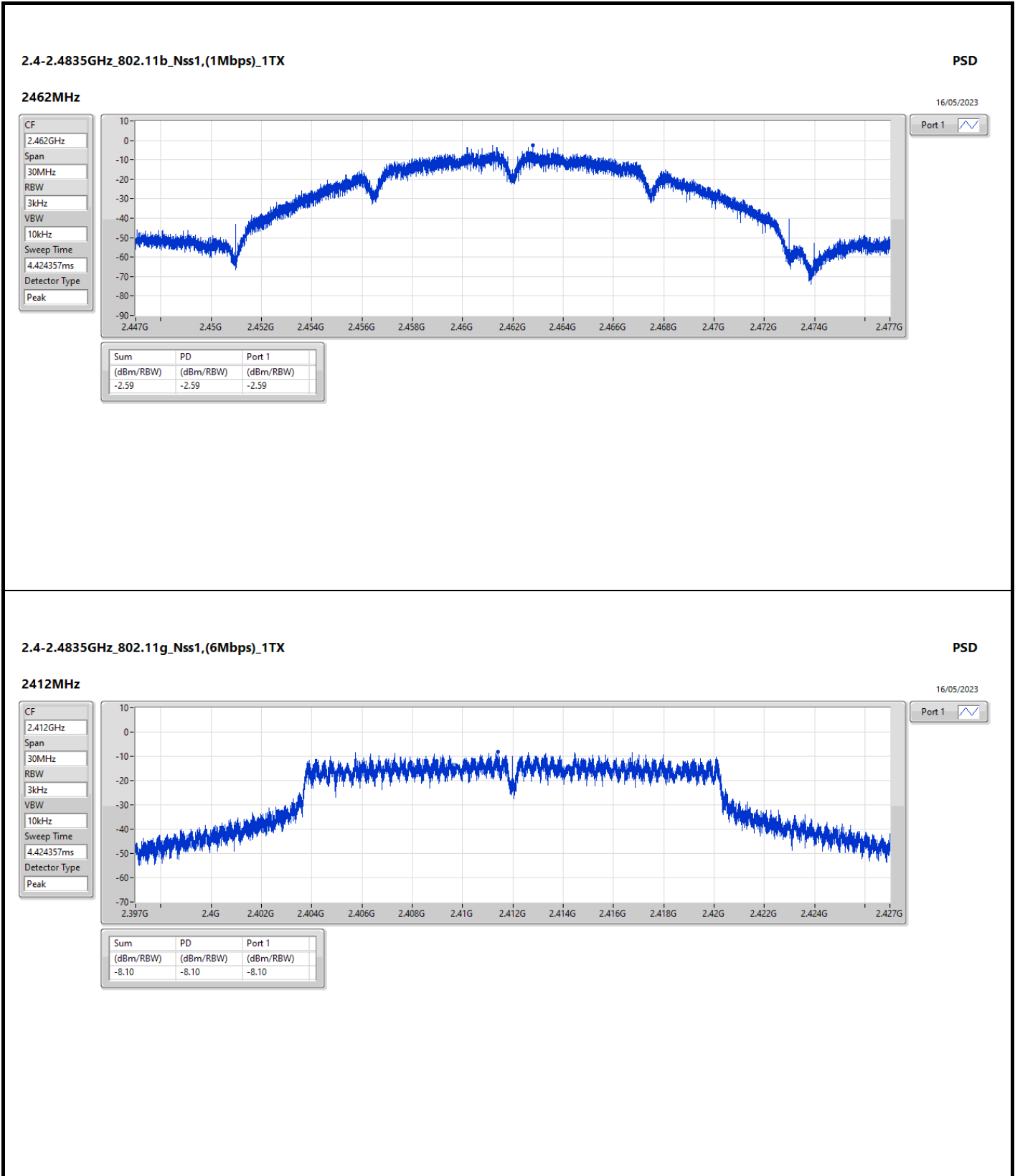
RBW = 3kHz;

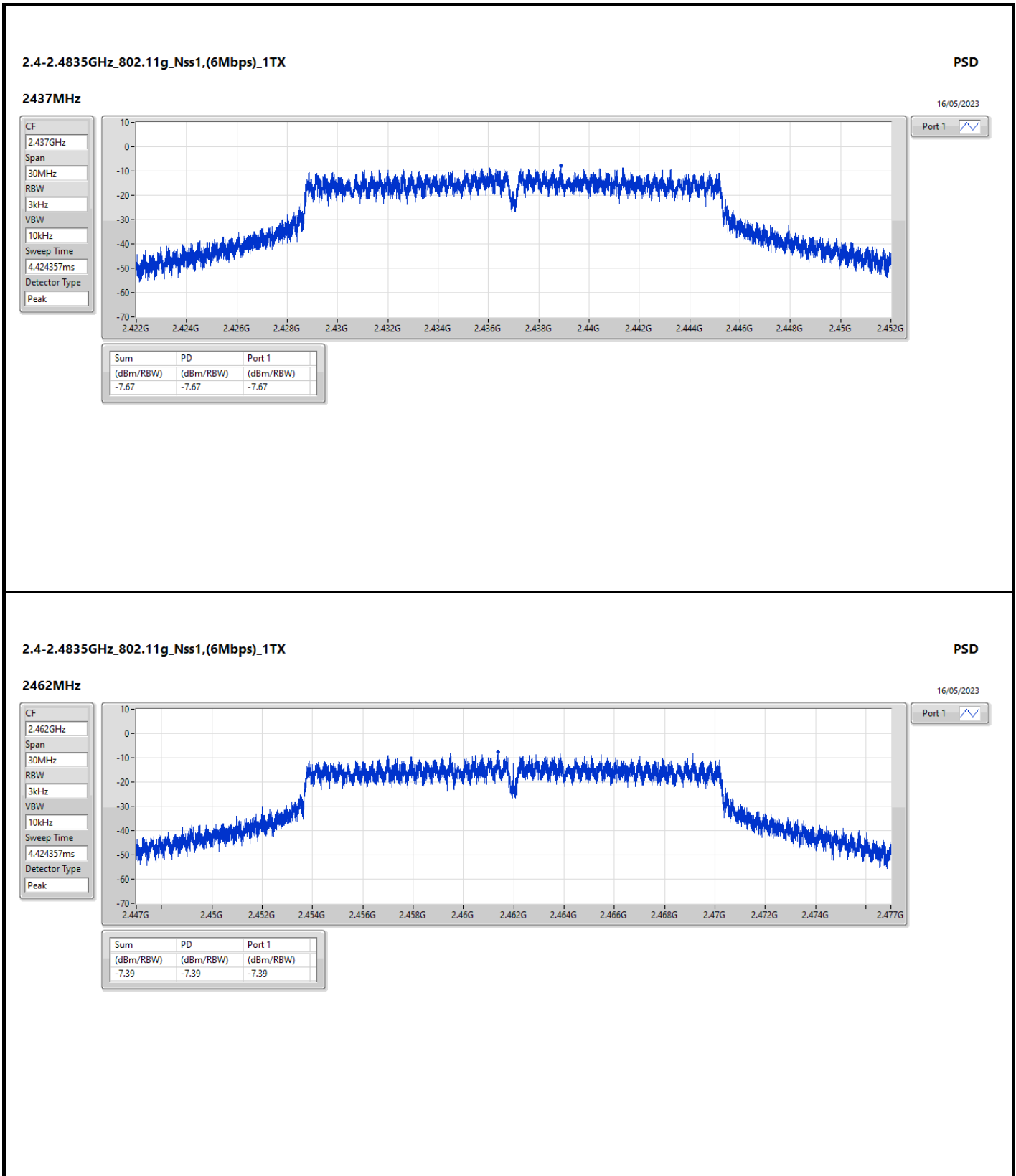
Result

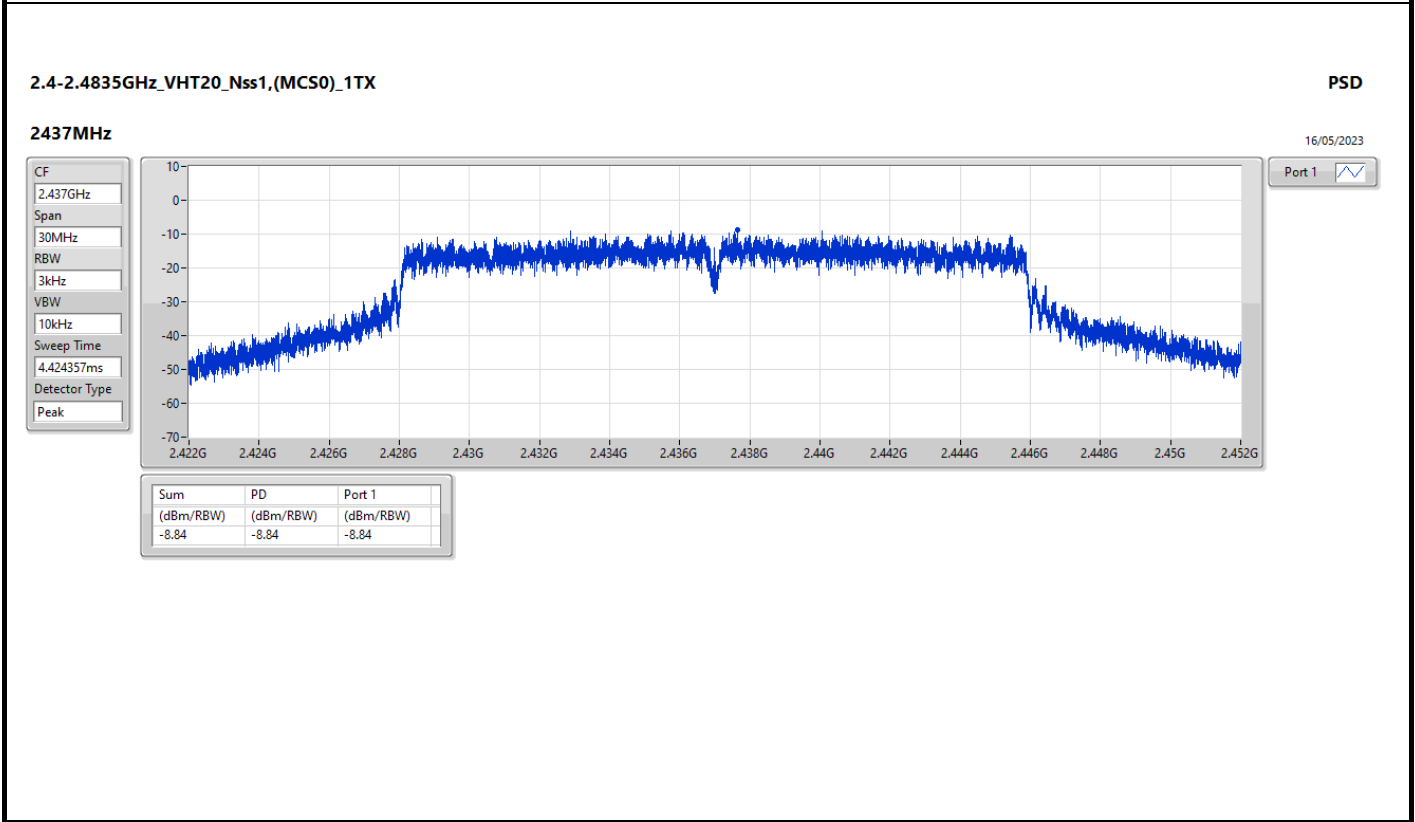
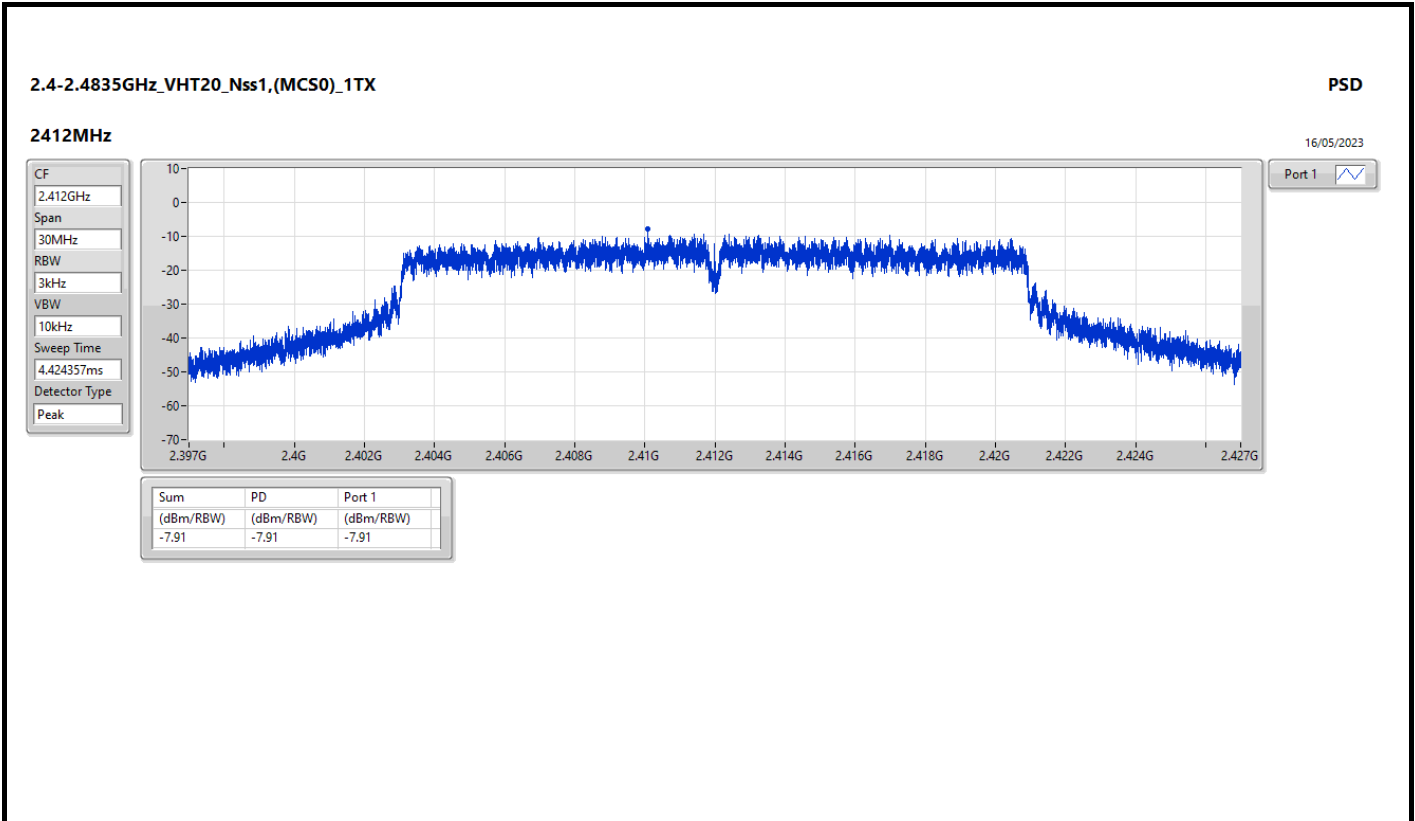
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-4.57	-2.89	-2.89	8.00
2437MHz	Pass	-4.57	-2.71	-2.71	8.00
2462MHz	Pass	-4.57	-2.59	-2.59	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-4.57	-8.10	-8.10	8.00
2437MHz	Pass	-4.57	-7.67	-7.67	8.00
2462MHz	Pass	-4.57	-7.39	-7.39	8.00
VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	-4.57	-7.91	-7.91	8.00
2437MHz	Pass	-4.57	-8.84	-8.84	8.00
2462MHz	Pass	-4.57	-9.15	-9.15	8.00
VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	-4.57	-11.85	-11.85	8.00
2437MHz	Pass	-4.57	-11.15	-11.15	8.00
2452MHz	Pass	-4.57	-10.32	-10.32	8.00

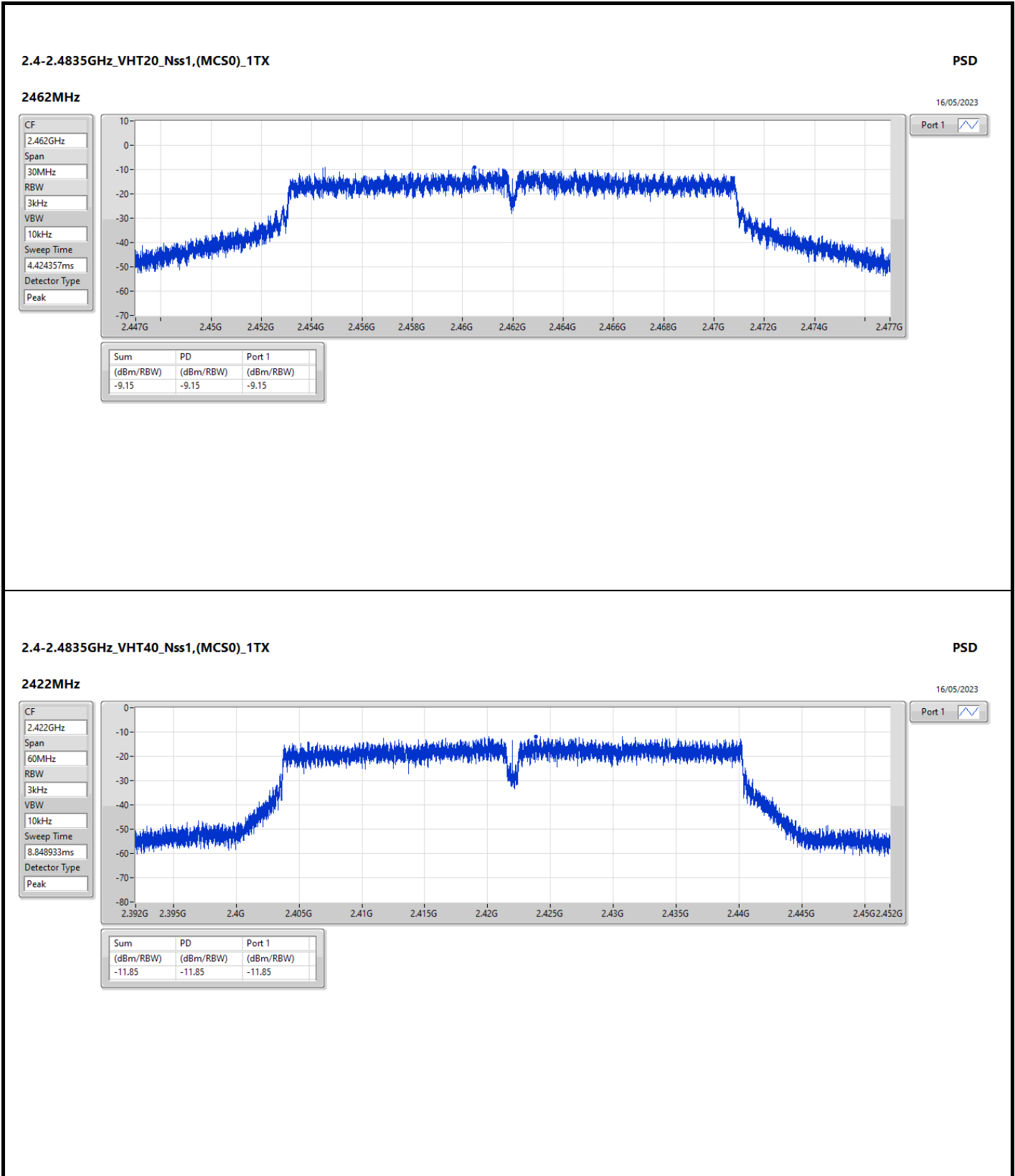
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

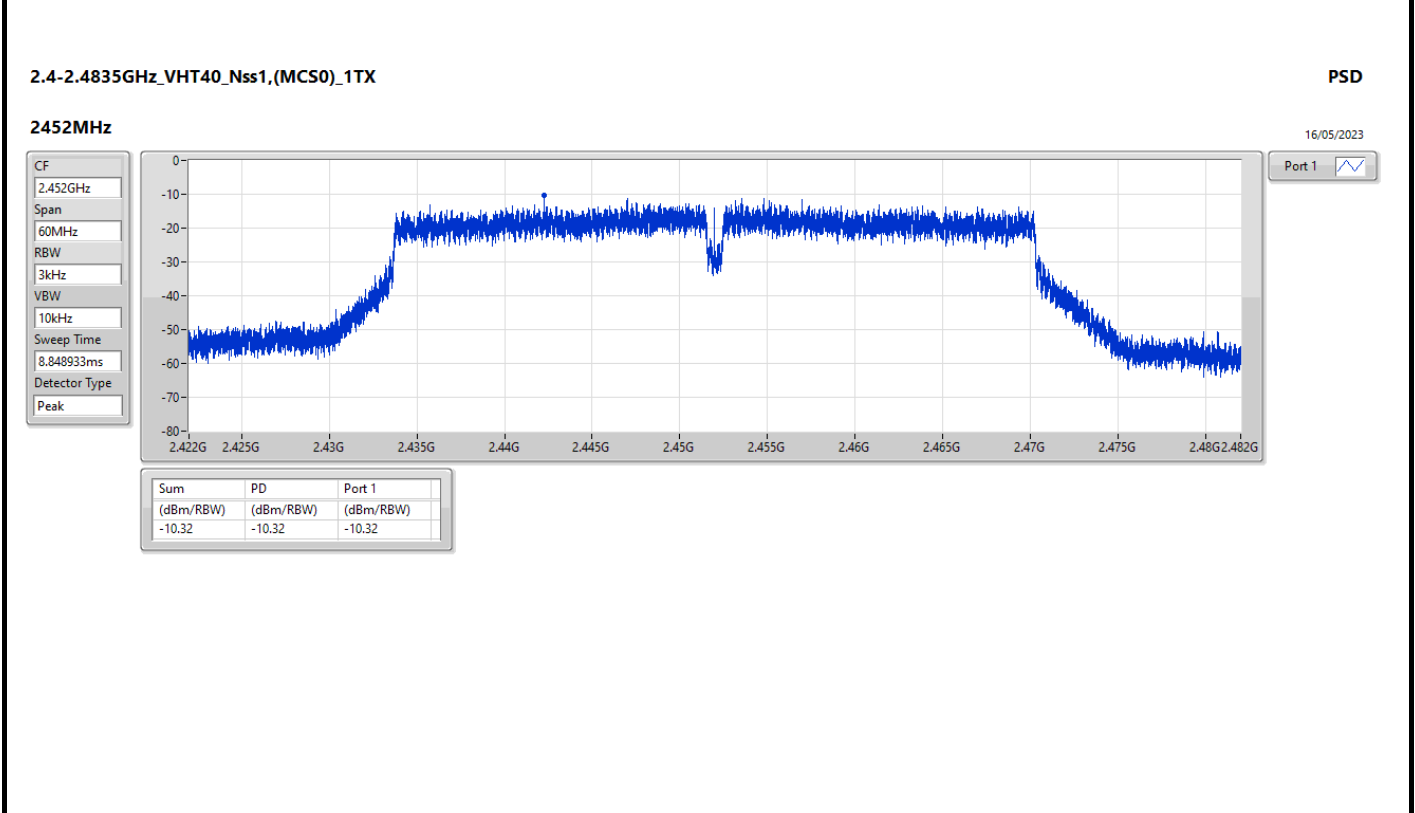
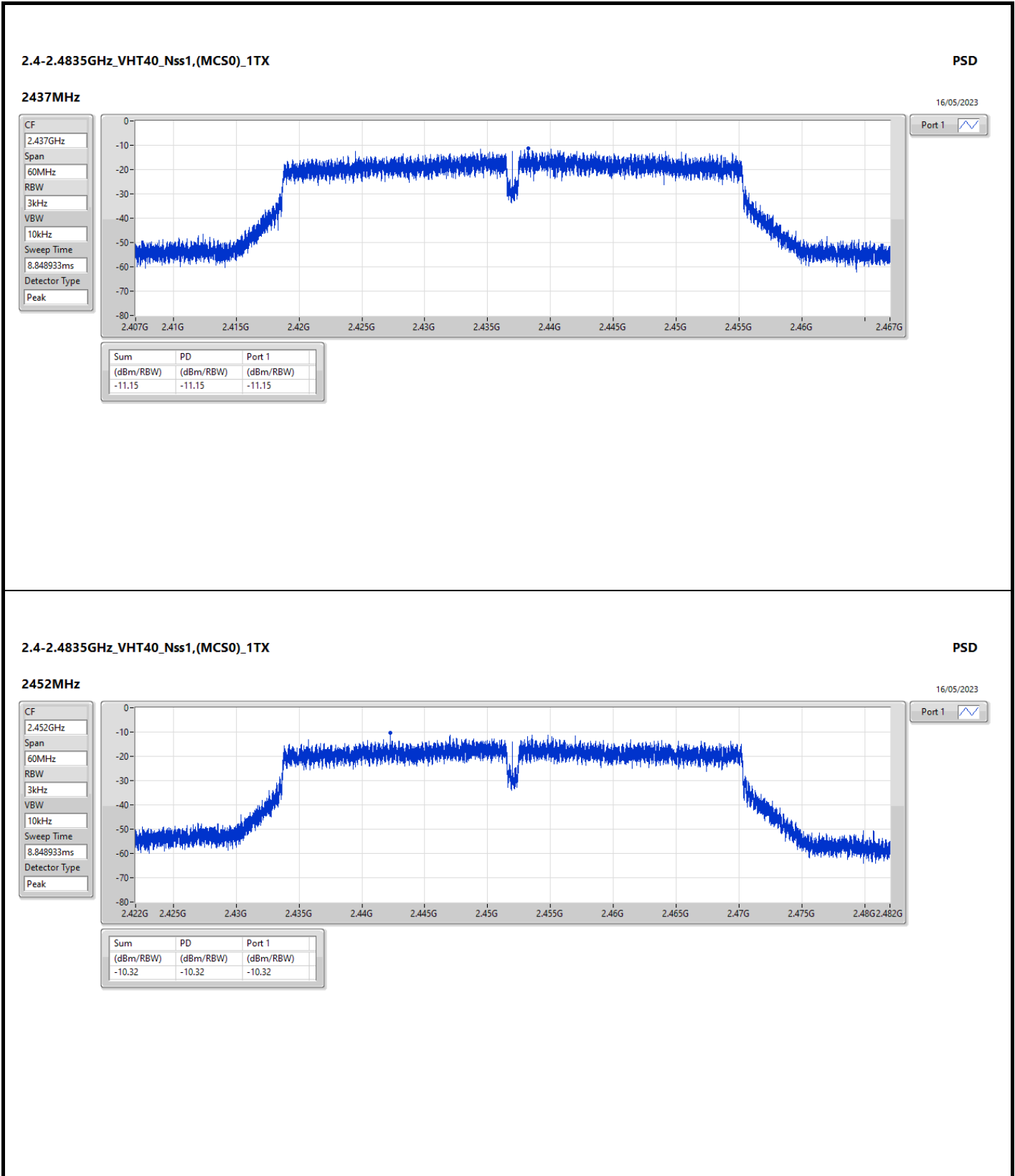














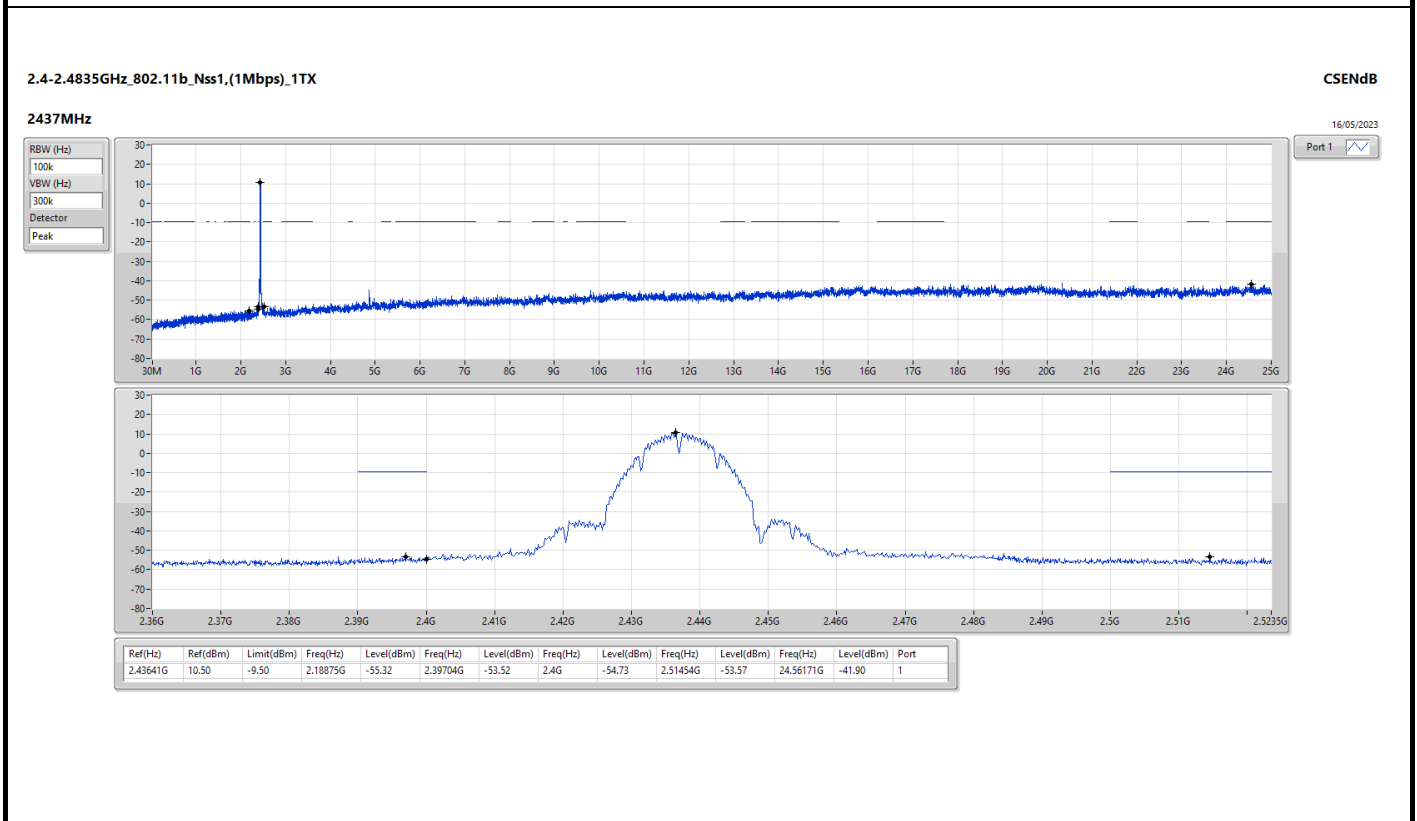
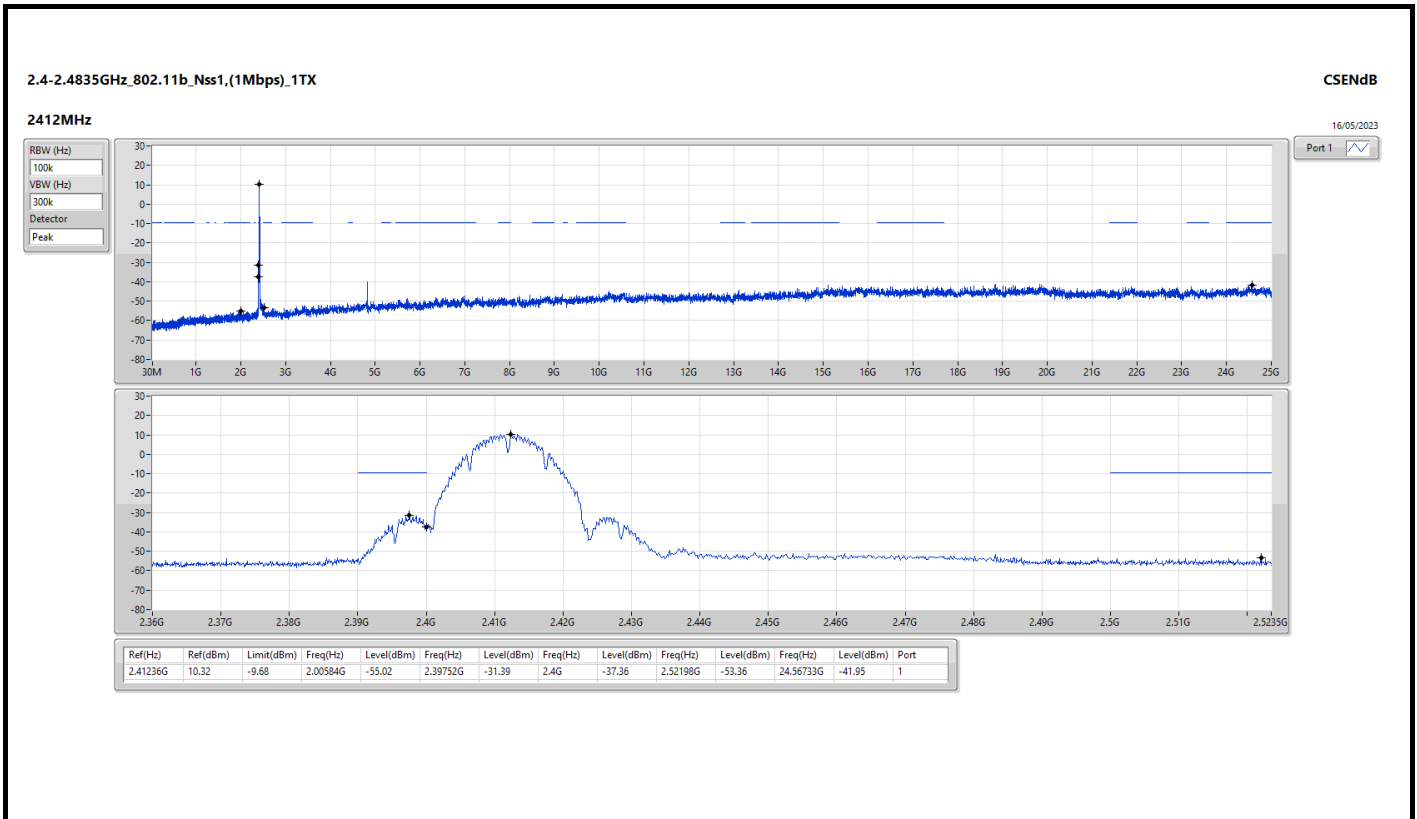
Summary

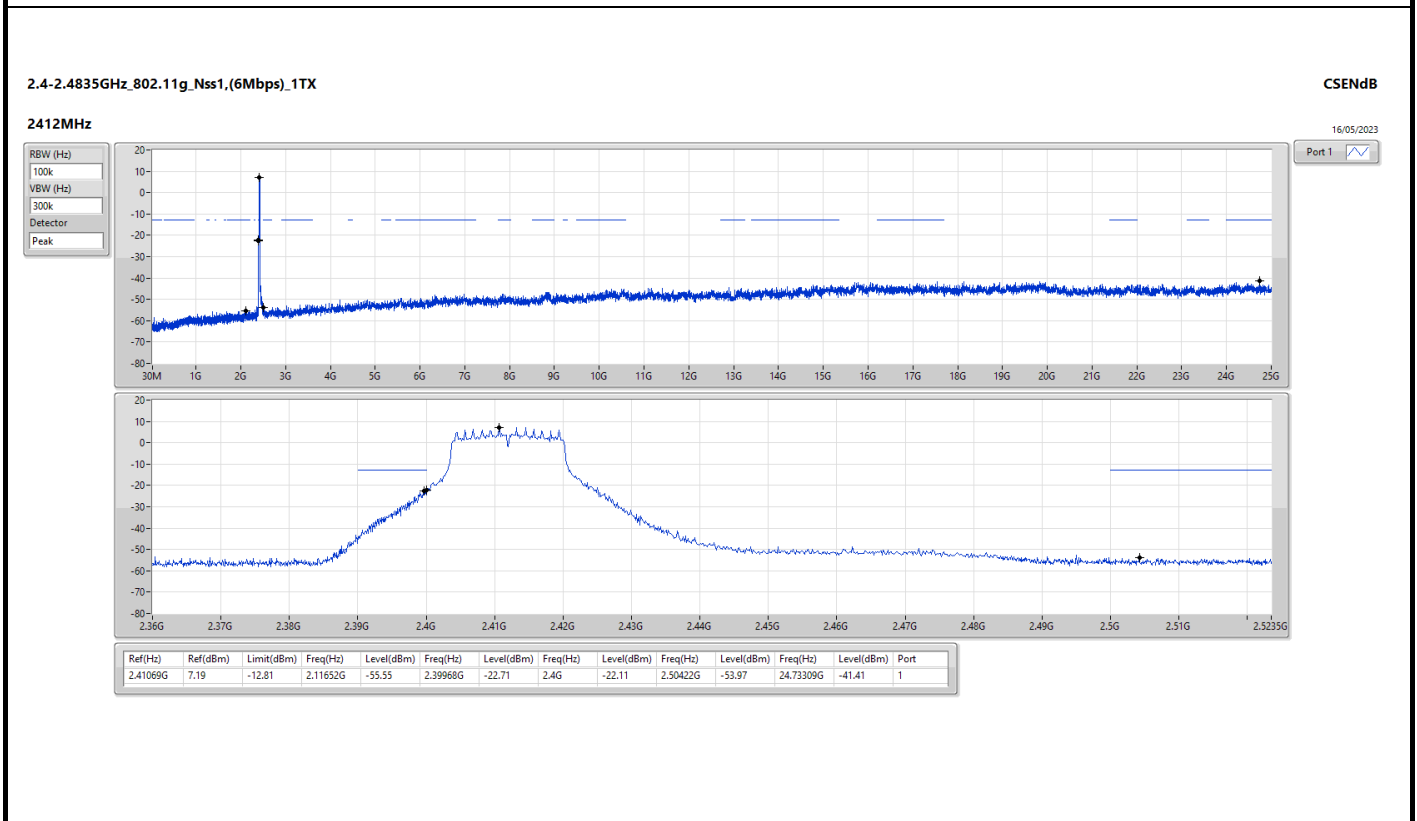
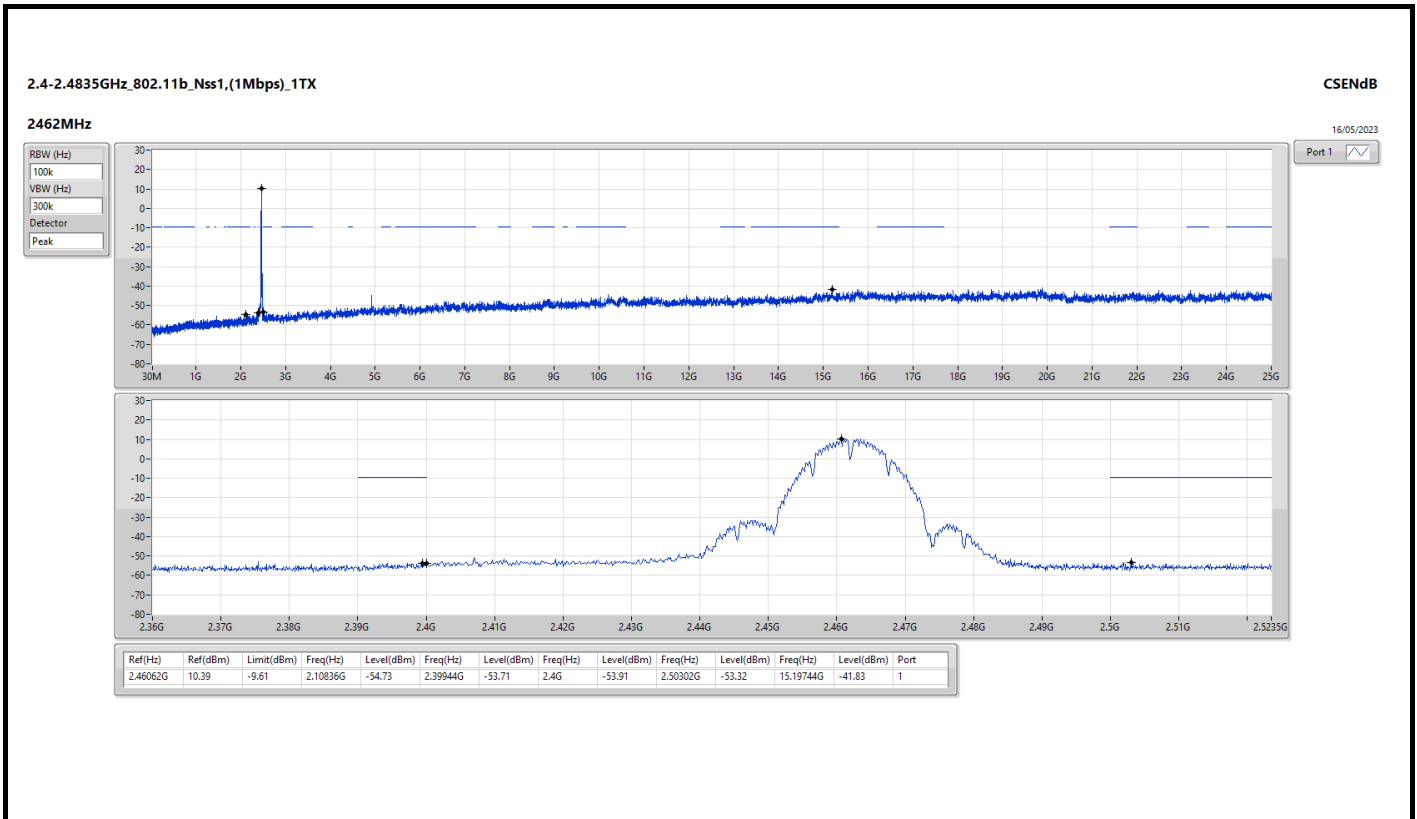
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.41236G	10.32	-9.68	2.00584G	-55.02	2.39752G	-31.39	2.4G	-37.36	2.52198G	-53.36	24.56733G	-41.95	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.41069G	7.19	-12.81	2.11652G	-55.55	2.39968G	-22.71	2.4G	-22.11	2.50422G	-53.97	24.73309G	-41.41	1
VHT20_Nss1,(MCS0)_1TX	Pass	2.41069G	7.72	-12.28	2.30292G	-55.47	2.39952G	-22.31	2.4G	-20.43	2.5031G	-53.02	24.12904G	-41.87	1
VHT40_Nss1,(MCS0)_1TX	Pass	2.42689G	4.22	-15.78	2.12535G	-54.30	2.39712G	-27.29	2.4G	-32.58	2.5099G	-52.82	17.47255G	-41.24	1

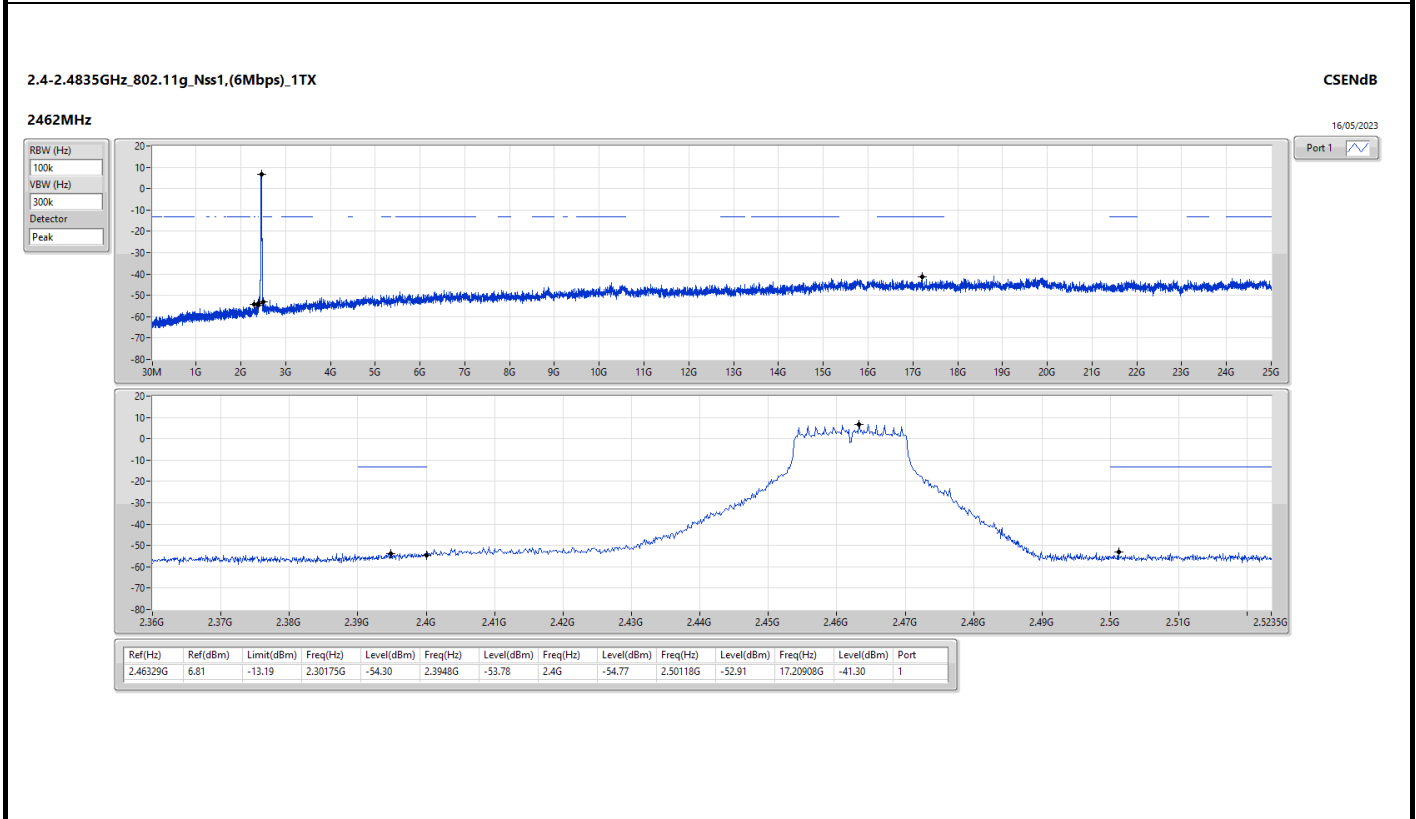
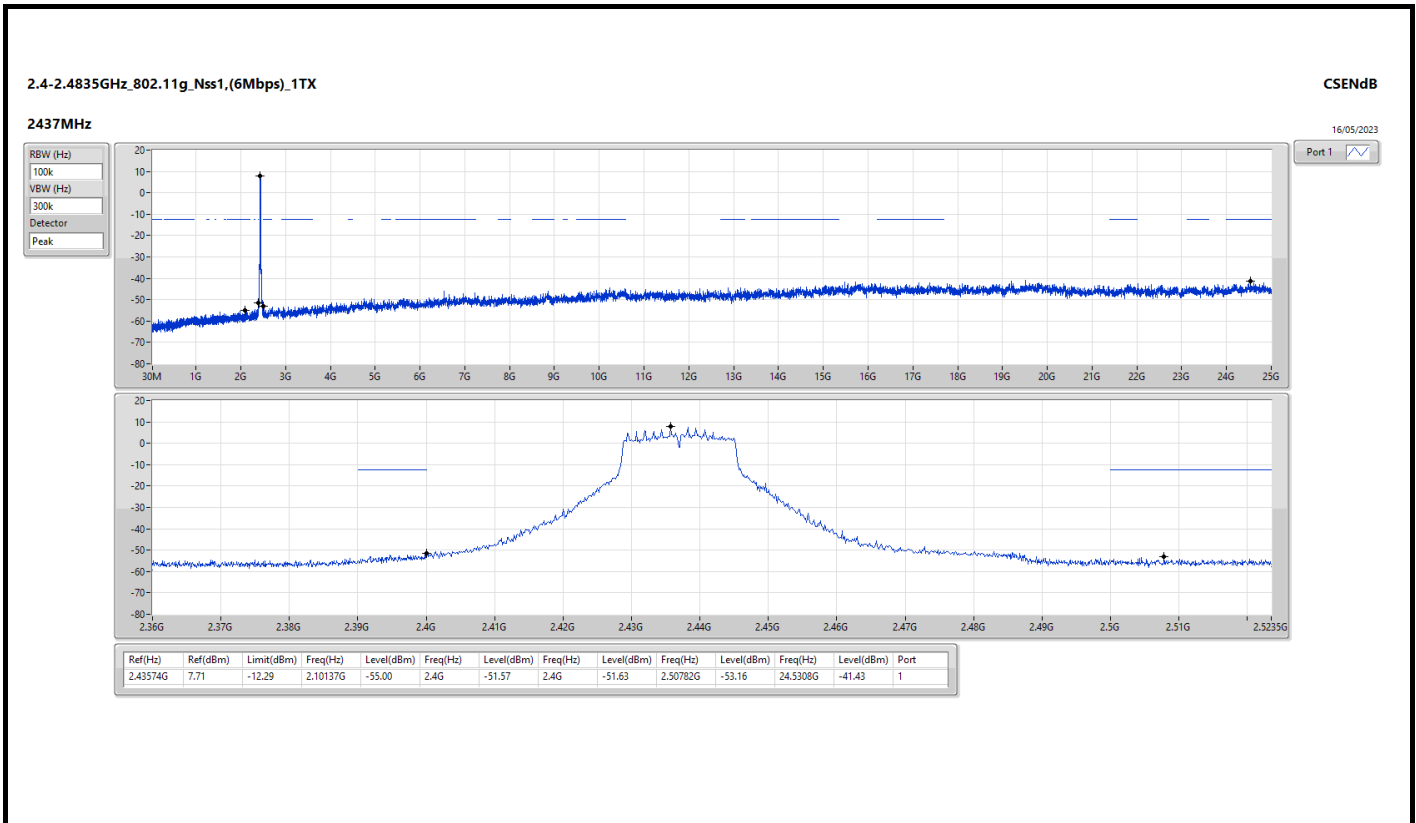


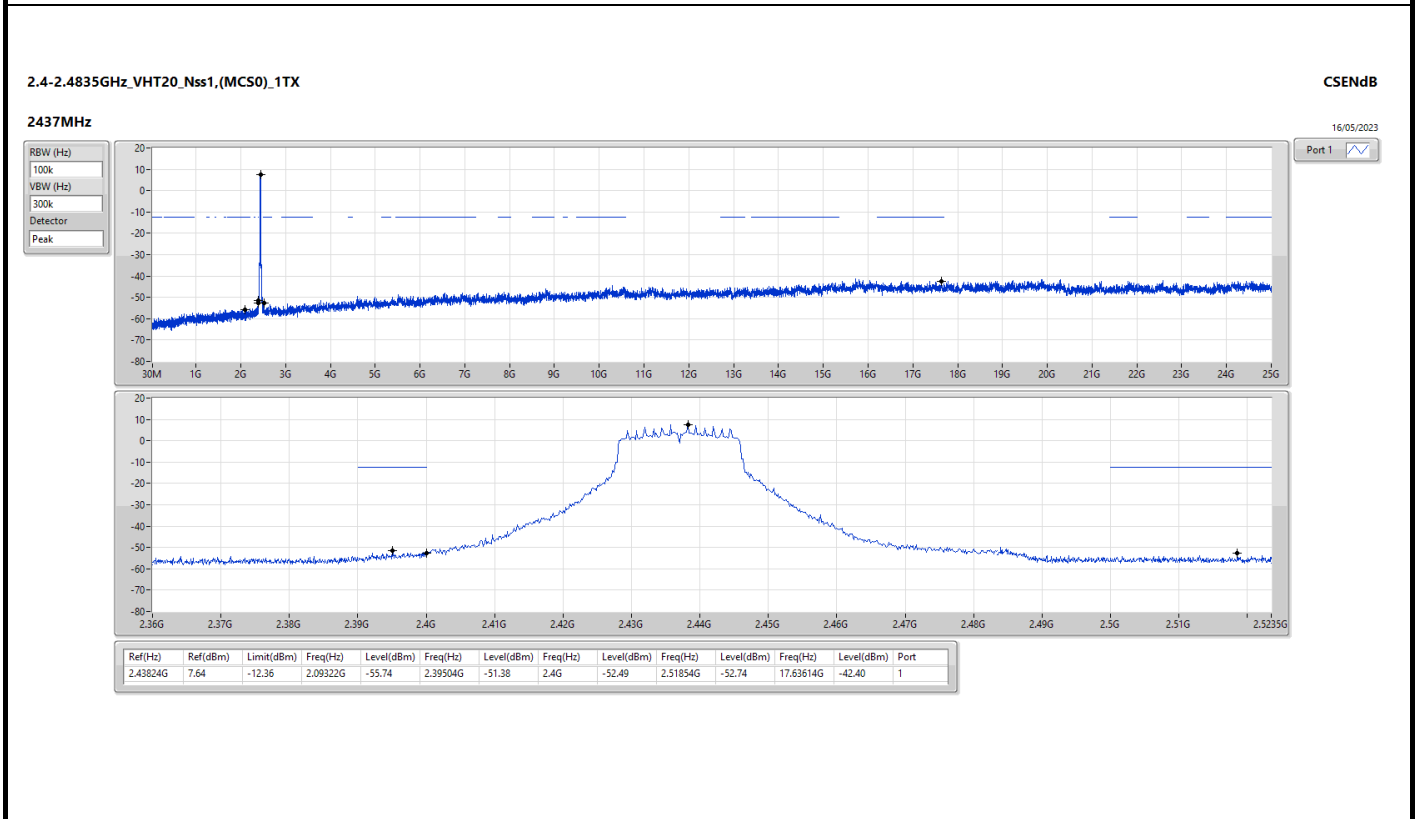
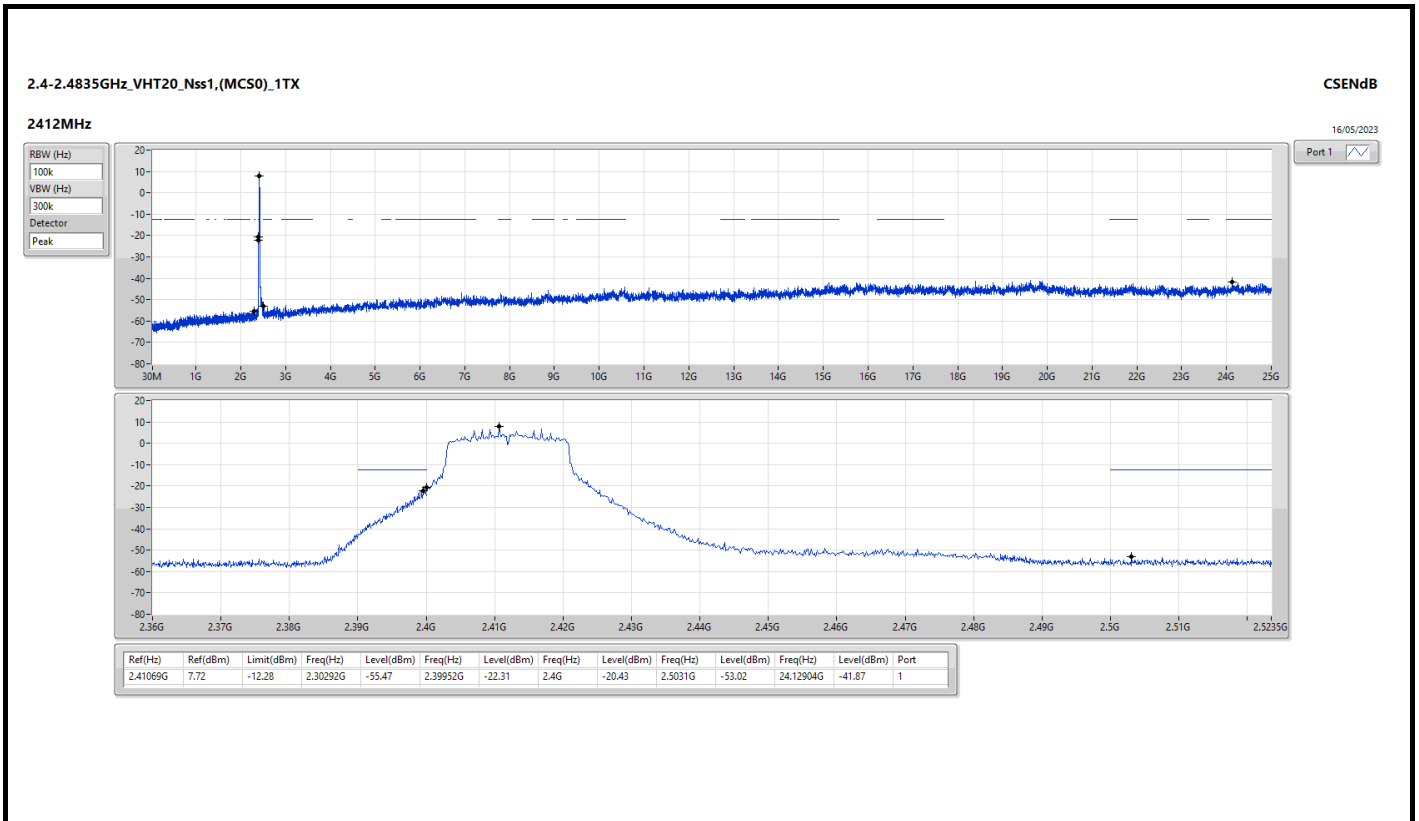
Result

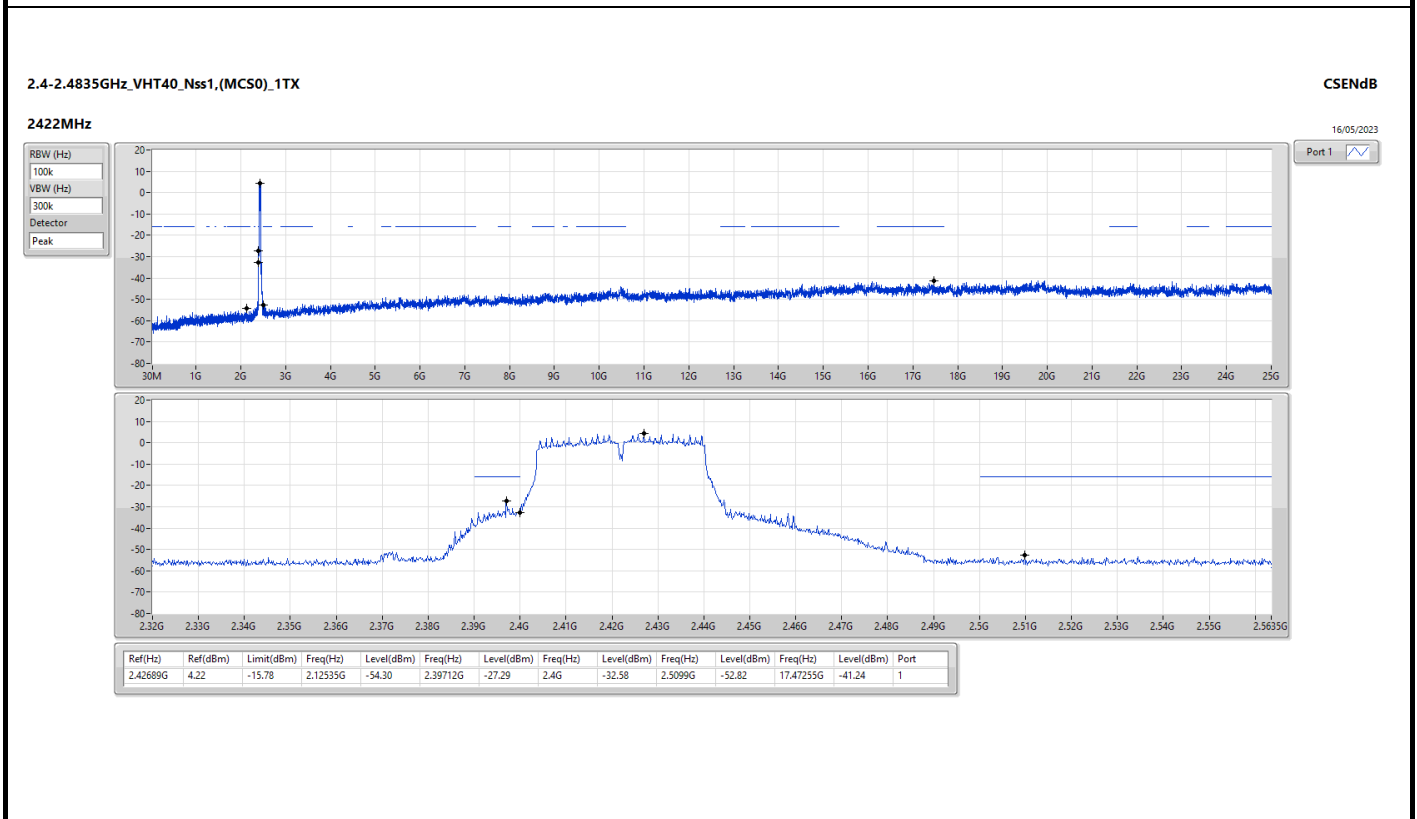
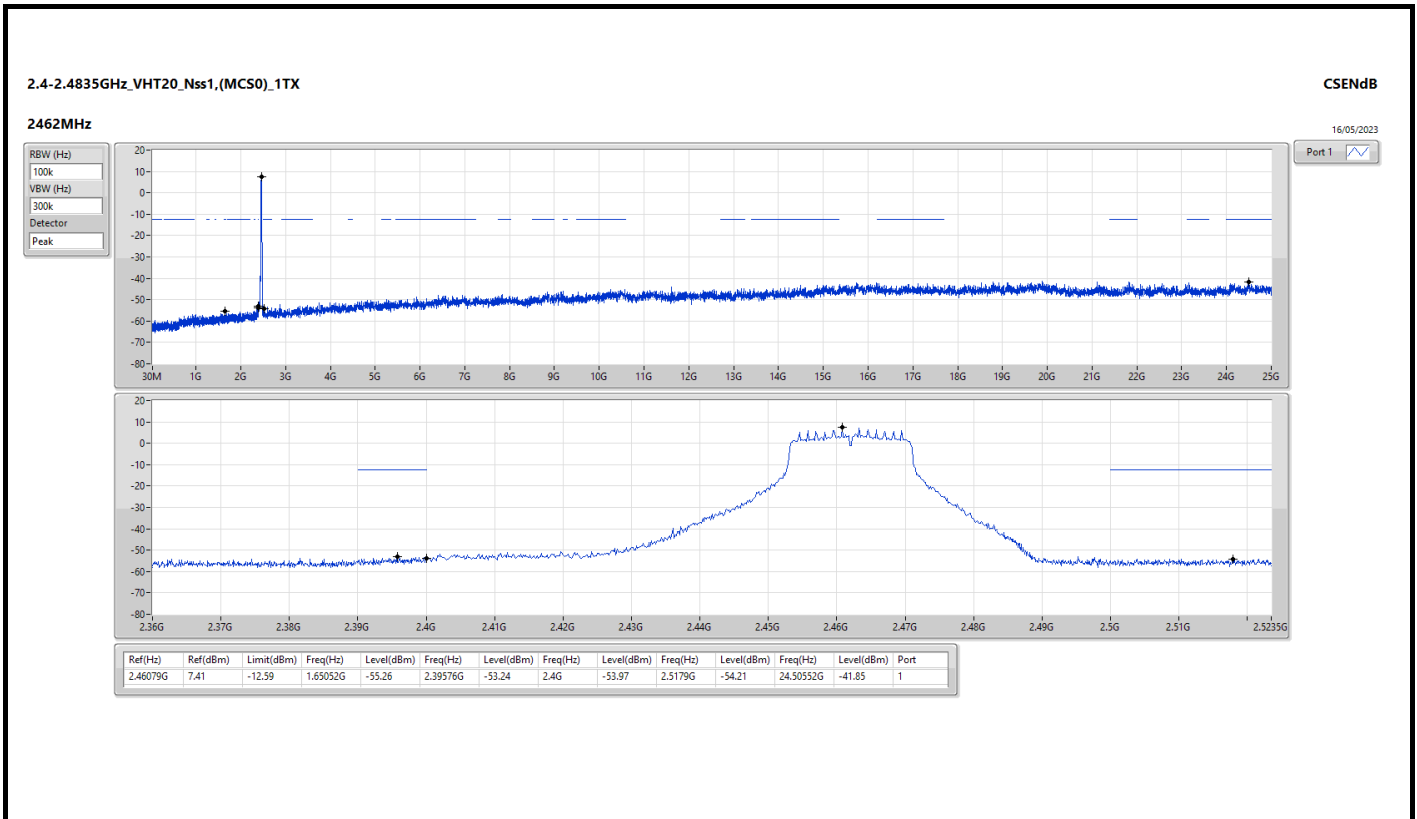
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41236G	10.32	-9.68	2.00584G	-55.02	2.39752G	-31.39	2.4G	-37.36	2.52198G	-53.36	24.56733G	-41.95	1
2437MHz	Pass	2.43641G	10.50	-9.50	2.18875G	-55.32	2.39704G	-53.52	2.4G	-54.73	2.51454G	-53.57	24.56171G	-41.90	1
2462MHz	Pass	2.46062G	10.39	-9.61	2.10836G	-54.73	2.39944G	-53.71	2.4G	-53.91	2.50302G	-53.32	15.19744G	-41.83	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41069G	7.19	-12.81	2.11652G	-55.55	2.39968G	-22.71	2.4G	-22.11	2.50422G	-53.97	24.73309G	-41.41	1
2437MHz	Pass	2.43574G	7.71	-12.29	2.10137G	-55.00	2.4G	-51.57	2.4G	-51.63	2.50782G	-53.16	24.5308G	-41.43	1
2462MHz	Pass	2.46329G	6.81	-13.19	2.30175G	-54.30	2.3948G	-53.78	2.4G	-54.77	2.50118G	-52.91	17.20908G	-41.30	1
VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41069G	7.72	-12.28	2.30292G	-55.47	2.39952G	-22.31	2.4G	-20.43	2.5031G	-53.02	24.12904G	-41.87	1
2437MHz	Pass	2.43824G	7.64	-12.36	2.09322G	-55.74	2.39504G	-51.38	2.4G	-52.49	2.51854G	-52.74	17.63614G	-42.40	1
2462MHz	Pass	2.46079G	7.41	-12.59	1.65052G	-55.26	2.39576G	-53.24	2.4G	-53.97	2.5179G	-54.21	24.50552G	-41.85	1
VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42689G	4.22	-15.78	2.12535G	-54.30	2.39712G	-27.29	2.4G	-32.58	2.5099G	-52.82	17.47255G	-41.24	1
2437MHz	Pass	2.44075G	4.27	-15.73	2.19176G	-55.03	2.39952G	-31.81	2.4G	-37.55	2.5243G	-52.54	21.79719G	-42.07	1
2452MHz	Pass	2.45578G	3.85	-16.15	2.12192G	-54.57	2.39456G	-46.95	2.4G	-48.94	2.56302G	-52.95	16.2105G	-41.98	1

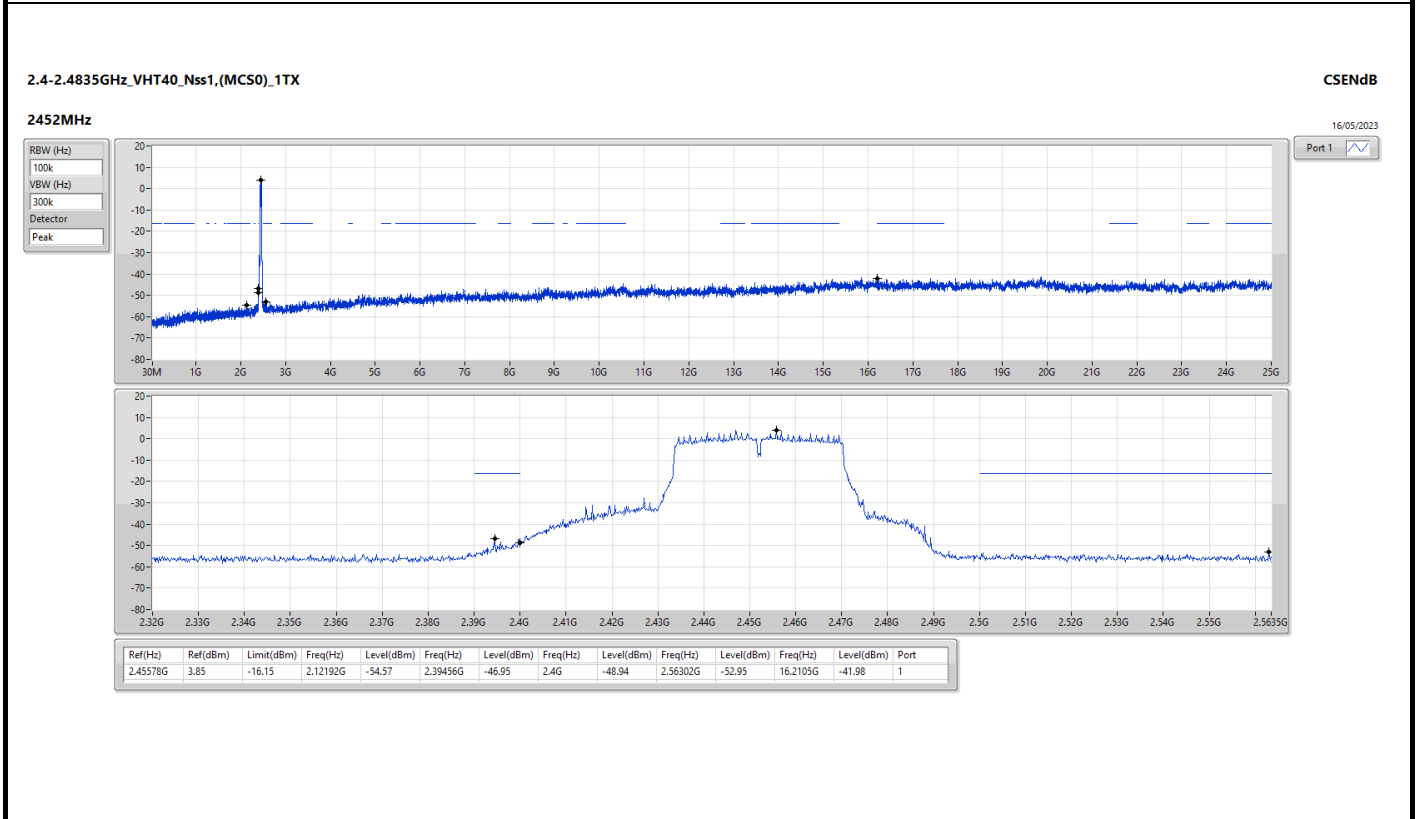
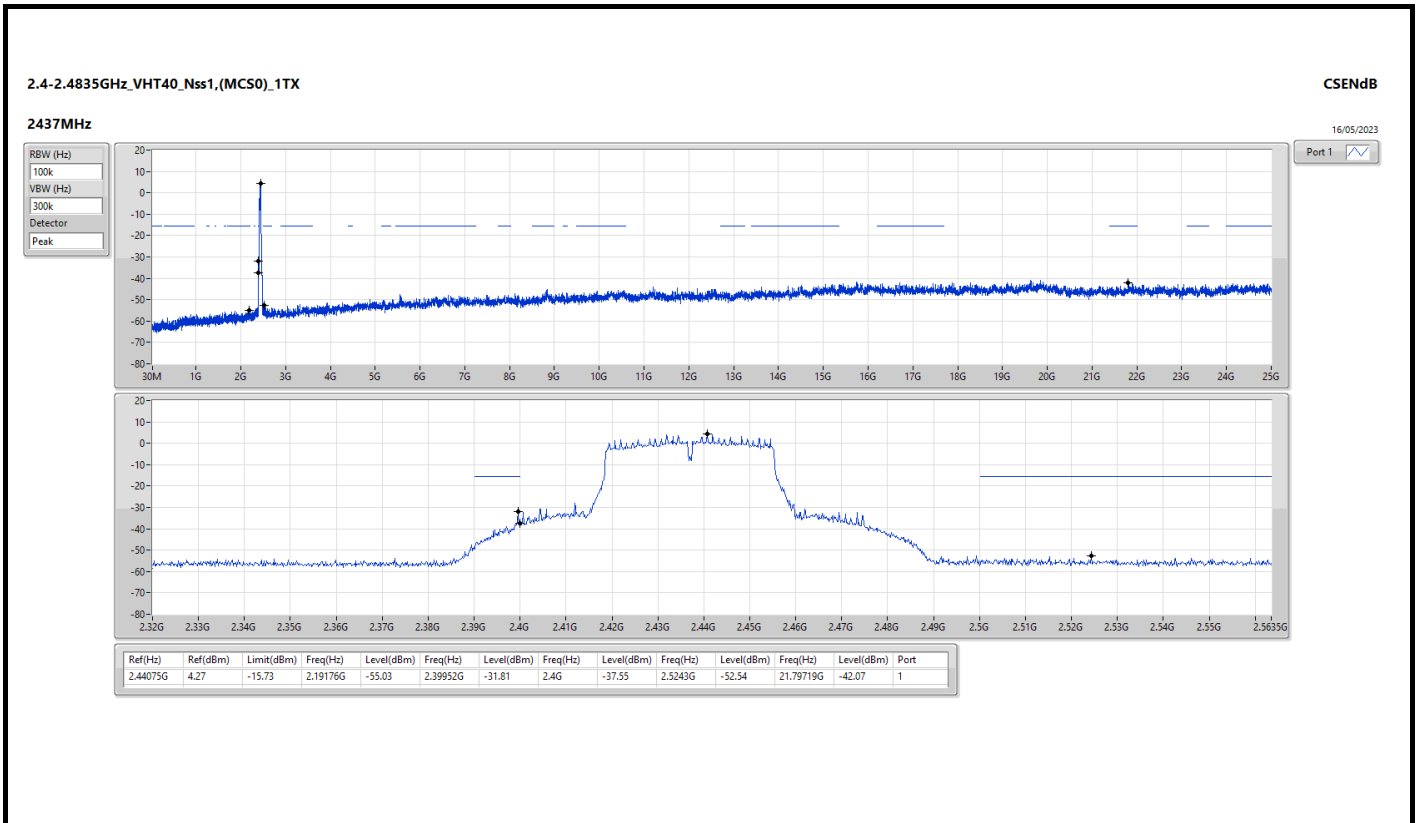














Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	PK	45.52M	36.63	40.00	-3.37	3	Horizontal	0	1.00	-

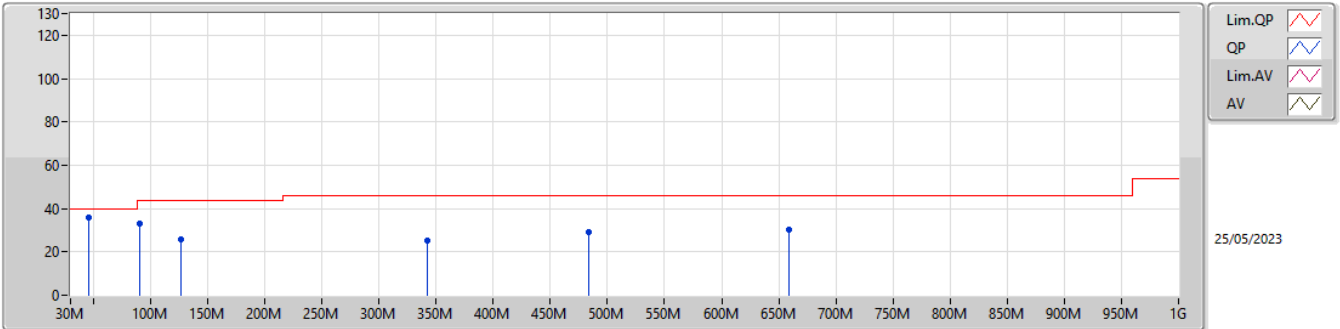


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	PK	45.52M	36.04	40.00	-3.96	3	Vertical	360	1.00	-
2412MHz	Pass	PK	90.14M	33.30	43.50	-10.20	3	Vertical	360	1.00	-
2412MHz	Pass	PK	127M	25.84	43.50	-17.66	3	Vertical	360	1.00	-
2412MHz	Pass	PK	342.34M	25.45	46.00	-20.55	3	Vertical	360	1.00	-
2412MHz	Pass	PK	483.96M	28.98	46.00	-17.02	3	Vertical	360	1.00	-
2412MHz	Pass	PK	658.56M	30.04	46.00	-15.96	3	Vertical	360	1.00	-
2412MHz	Pass	PK	45.52M	36.63	40.00	-3.37	3	Horizontal	0	1.00	-
2412MHz	Pass	PK	90.14M	28.89	43.50	-14.61	3	Horizontal	0	1.00	-
2412MHz	Pass	PK	111.48M	28.34	43.50	-15.16	3	Horizontal	0	1.00	-
2412MHz	Pass	PK	212.36M	28.28	43.50	-15.22	3	Horizontal	0	1.00	-
2412MHz	Pass	PK	272.5M	27.86	46.00	-18.14	3	Horizontal	0	1.00	-
2412MHz	Pass	PK	474.26M	31.93	46.00	-14.07	3	Horizontal	0	1.00	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

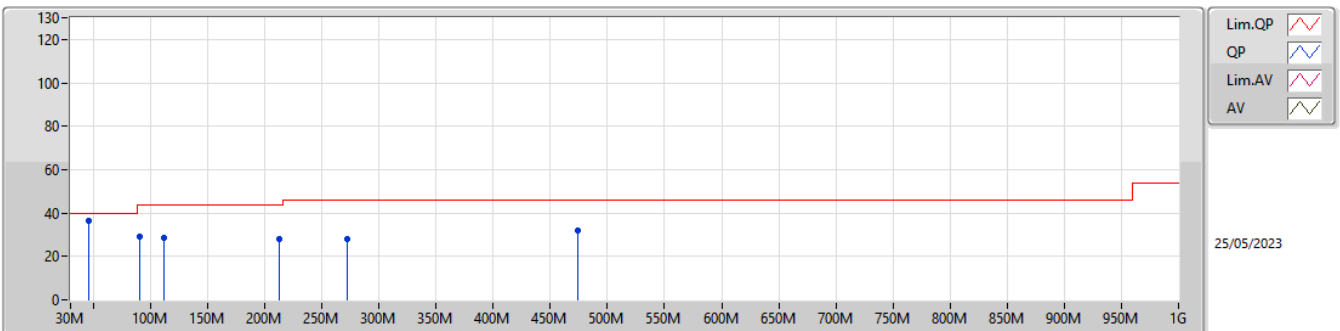
2412MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	45.52M	36.04	40.00	-3.96	46.57	3	Vertical	360	1.00	-	15.21	1.45	27.19
PK	90.14M	33.30	43.50	-10.20	45.03	3	Vertical	360	1.00	-	14.11	2.00	27.84
PK	127M	25.84	43.50	-17.66	34.20	3	Vertical	360	1.00	-	17.20	2.19	27.75
PK	342.34M	25.45	46.00	-20.55	30.11	3	Vertical	360	1.00	-	19.19	3.60	27.45
PK	483.96M	28.98	46.00	-17.02	30.21	3	Vertical	360	1.00	-	22.72	4.37	28.32
PK	658.56M	30.04	46.00	-15.96	28.52	3	Vertical	360	1.00	-	24.87	5.17	28.52

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2412MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	45.52M	36.63	40.00	-3.37	47.16	3	Horizontal	0	1.00	-	15.21	1.45	27.19
PK	90.14M	28.89	43.50	-14.61	40.62	3	Horizontal	0	1.00	-	14.11	2.00	27.84
PK	111.48M	28.34	43.50	-15.16	36.99	3	Horizontal	0	1.00	-	17.11	2.03	27.79
PK	212.36M	28.28	43.50	-15.22	38.62	3	Horizontal	0	1.00	-	14.15	2.86	27.35
PK	272.5M	27.86	46.00	-18.14	33.84	3	Horizontal	0	1.00	-	18.04	3.15	27.17
PK	474.26M	31.93	46.00	-14.07	33.28	3	Horizontal	0	1.00	-	22.61	4.34	28.30



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	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	4.82397G	45.83	54.00	-8.17	3	Horizontal	146	1.07	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.39G	44.66	54.00	-9.34	3	Horizontal	192	1.63	-
802.11ac VHT20_Nss1,(MCS0)_1TX	Pass	AV	2.484G	44.81	54.00	-9.19	3	Horizontal	202	1.50	-
802.11ac VHT40_Nss1,(MCS0)_1TX	Pass	AV	2.3896G	49.98	54.00	-4.02	3	Horizontal	208	1.50	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3876G	43.98	54.00	-10.02	3	Vertical	174	1.95	-
2412MHz	Pass	AV	2.4112G	92.88	Inf	-Inf	3	Vertical	174	1.95	-
2412MHz	Pass	PK	2.3688G	57.34	74.00	-16.66	3	Vertical	174	1.95	-
2412MHz	Pass	PK	2.4112G	95.60	Inf	-Inf	3	Vertical	174	1.95	-
2412MHz	Pass	AV	2.3886G	44.10	54.00	-9.90	3	Horizontal	163	1.19	-
2412MHz	Pass	AV	2.4112G	95.06	Inf	-Inf	3	Horizontal	163	1.19	-
2412MHz	Pass	PK	2.3884G	57.70	74.00	-16.30	3	Horizontal	163	1.19	-
2412MHz	Pass	PK	2.4112G	97.78	Inf	-Inf	3	Horizontal	163	1.19	-
2412MHz	Pass	AV	4.82397G	45.82	54.00	-8.18	3	Vertical	65	2.41	-
2412MHz	Pass	PK	4.82399G	50.13	74.00	-23.87	3	Vertical	65	2.41	-
2412MHz	Pass	AV	4.82397G	45.83	54.00	-8.17	3	Horizontal	146	1.07	-
2412MHz	Pass	PK	4.82413G	50.04	74.00	-23.96	3	Horizontal	146	1.07	-
2437MHz	Pass	AV	2.3898G	43.96	54.00	-10.04	3	Vertical	52	2.88	-
2437MHz	Pass	AV	2.4378G	92.67	Inf	-Inf	3	Vertical	52	2.88	-
2437MHz	Pass	AV	2.497G	44.57	54.00	-9.43	3	Vertical	52	2.88	-
2437MHz	Pass	PK	2.3534G	57.88	74.00	-16.12	3	Vertical	52	2.88	-
2437MHz	Pass	PK	2.4378G	94.60	Inf	-Inf	3	Vertical	52	2.88	-
2437MHz	Pass	PK	2.4962G	58.02	74.00	-15.98	3	Vertical	52	2.88	-
2437MHz	Pass	AV	2.3898G	43.78	54.00	-10.22	3	Horizontal	323	3.00	-
2437MHz	Pass	AV	2.4378G	94.34	Inf	-Inf	3	Horizontal	323	3.00	-
2437MHz	Pass	AV	2.4954G	44.36	54.00	-9.64	3	Horizontal	323	3.00	-
2437MHz	Pass	PK	2.3582G	57.27	74.00	-16.73	3	Horizontal	323	3.00	-
2437MHz	Pass	PK	2.4378G	97.32	Inf	-Inf	3	Horizontal	323	3.00	-
2437MHz	Pass	PK	2.4982G	57.53	74.00	-16.47	3	Horizontal	323	3.00	-
2437MHz	Pass	AV	4.87408G	38.12	54.00	-15.88	3	Vertical	360	2.91	-
2437MHz	Pass	PK	4.87381G	47.24	74.00	-26.76	3	Vertical	360	2.91	-
2437MHz	Pass	AV	4.87398G	40.42	54.00	-13.58	3	Horizontal	149	1.15	-
2437MHz	Pass	PK	4.87398G	47.03	74.00	-26.97	3	Horizontal	149	1.15	-
2462MHz	Pass	AV	2.4628G	90.33	Inf	-Inf	3	Vertical	221	2.90	-
2462MHz	Pass	AV	2.4872G	44.60	54.00	-9.40	3	Vertical	221	2.90	-
2462MHz	Pass	PK	2.463G	93.11	Inf	-Inf	3	Vertical	221	2.90	-
2462MHz	Pass	PK	2.489G	58.22	74.00	-15.78	3	Vertical	221	2.90	-
2462MHz	Pass	AV	2.4628G	94.18	Inf	-Inf	3	Horizontal	204	1.50	-
2462MHz	Pass	AV	2.4966G	44.53	54.00	-9.47	3	Horizontal	204	1.50	-
2462MHz	Pass	PK	2.463G	97.05	Inf	-Inf	3	Horizontal	204	1.50	-
2462MHz	Pass	PK	2.4944G	58.43	74.00	-15.57	3	Horizontal	204	1.50	-
2462MHz	Pass	AV	4.92398G	44.53	54.00	-9.47	3	Vertical	10	3.00	-
2462MHz	Pass	PK	4.924G	48.91	74.00	-25.09	3	Vertical	10	3.00	-
2462MHz	Pass	AV	4.92399G	43.20	54.00	-10.80	3	Horizontal	150	1.04	-
2462MHz	Pass	PK	4.92393G	48.34	74.00	-25.66	3	Horizontal	150	1.04	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	44.62	54.00	-9.38	3	Vertical	141	2.71	-
2412MHz	Pass	AV	2.4108G	88.64	Inf	-Inf	3	Vertical	141	2.71	-
2412MHz	Pass	PK	2.3884G	57.65	74.00	-16.35	3	Vertical	141	2.71	-
2412MHz	Pass	PK	2.4108G	99.46	Inf	-Inf	3	Vertical	141	2.71	-
2412MHz	Pass	AV	2.39G	44.66	54.00	-9.34	3	Horizontal	192	1.63	-
2412MHz	Pass	AV	2.4108G	89.98	Inf	-Inf	3	Horizontal	192	1.63	-
2412MHz	Pass	PK	2.3752G	57.35	74.00	-16.65	3	Horizontal	192	1.63	-
2412MHz	Pass	PK	2.4092G	100.87	Inf	-Inf	3	Horizontal	192	1.63	-
2412MHz	Pass	AV	4.82322G	30.09	54.00	-23.91	3	Vertical	65	2.72	-
2412MHz	Pass	PK	4.82404G	45.10	74.00	-28.90	3	Vertical	65	2.72	-
2412MHz	Pass	AV	4.82506G	30.36	54.00	-23.64	3	Horizontal	143	1.33	-
2412MHz	Pass	PK	4.82488G	45.07	74.00	-28.93	3	Horizontal	143	1.33	-
2437MHz	Pass	AV	2.389G	44.01	54.00	-9.99	3	Vertical	145	2.76	-
2437MHz	Pass	AV	2.4382G	88.12	Inf	-Inf	3	Vertical	145	2.76	-
2437MHz	Pass	AV	2.495G	44.58	54.00	-9.42	3	Vertical	145	2.76	-
2437MHz	Pass	PK	2.3702G	58.16	74.00	-15.84	3	Vertical	145	2.76	-
2437MHz	Pass	PK	2.439G	98.94	Inf	-Inf	3	Vertical	145	2.76	-
2437MHz	Pass	PK	2.4954G	58.17	74.00	-15.83	3	Vertical	145	2.76	-
2437MHz	Pass	AV	2.3898G	43.98	54.00	-10.02	3	Horizontal	194	1.53	-



RSE TX above 1GHz

Appendix E.2

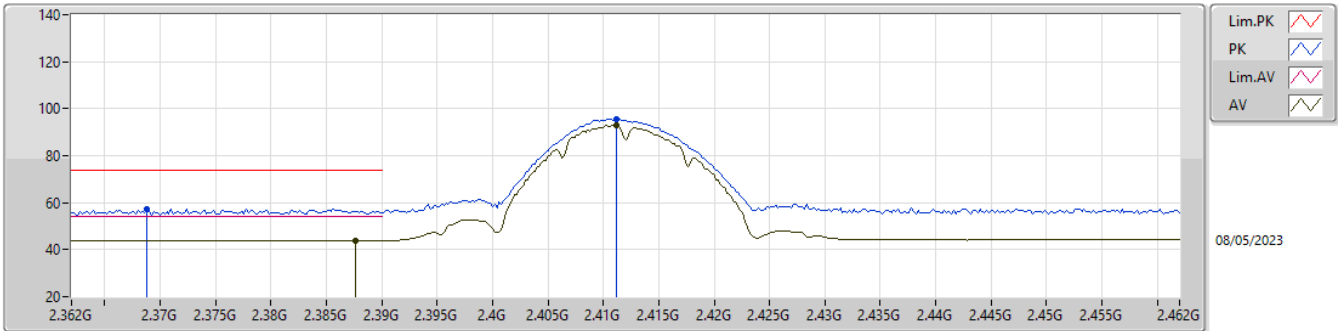
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	AV	2.4382G	88.64	Inf	-Inf	3	Horizontal	194	1.53	-
2437MHz	Pass	AV	2.4838G	44.58	54.00	-9.42	3	Horizontal	194	1.53	-
2437MHz	Pass	PK	2.3842G	58.10	74.00	-15.90	3	Horizontal	194	1.53	-
2437MHz	Pass	PK	2.4402G	99.79	Inf	-Inf	3	Horizontal	194	1.53	-
2437MHz	Pass	PK	2.493G	58.59	74.00	-15.41	3	Horizontal	194	1.53	-
2437MHz	Pass	AV	4.8739G	29.78	54.00	-24.22	3	Vertical	357	2.92	-
2437MHz	Pass	PK	4.87814G	43.87	74.00	-30.13	3	Vertical	357	2.92	-
2437MHz	Pass	AV	4.87234G	29.35	54.00	-24.65	3	Horizontal	92	2.69	-
2437MHz	Pass	PK	4.87272G	44.23	74.00	-29.77	3	Horizontal	92	2.69	-
2462MHz	Pass	AV	2.4694G	84.22	Inf	-Inf	3	Vertical	219	2.90	-
2462MHz	Pass	AV	2.4838G	44.59	54.00	-9.41	3	Vertical	219	2.90	-
2462MHz	Pass	PK	2.469G	95.53	Inf	-Inf	3	Vertical	219	2.90	-
2462MHz	Pass	PK	2.4998G	58.65	74.00	-15.35	3	Vertical	219	2.90	-
2462MHz	Pass	AV	2.4694G	86.72	Inf	-Inf	3	Horizontal	202	1.33	-
2462MHz	Pass	AV	2.4838G	44.60	54.00	-9.40	3	Horizontal	202	1.33	-
2462MHz	Pass	PK	2.4692G	97.92	Inf	-Inf	3	Horizontal	202	1.33	-
2462MHz	Pass	PK	2.4884G	57.73	74.00	-16.27	3	Horizontal	202	1.33	-
2462MHz	Pass	AV	4.92392G	30.07	54.00	-23.93	3	Vertical	12	3.00	-
2462MHz	Pass	PK	4.92384G	44.36	74.00	-29.64	3	Vertical	12	3.00	-
2462MHz	Pass	AV	4.92218G	30.27	54.00	-23.73	3	Horizontal	91	2.33	-
2462MHz	Pass	PK	4.92424G	45.22	74.00	-28.78	3	Horizontal	91	2.33	-
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	44.53	54.00	-9.47	3	Vertical	143	2.70	-
2412MHz	Pass	AV	2.411G	88.08	Inf	-Inf	3	Vertical	143	2.70	-
2412MHz	Pass	PK	2.372G	58.96	74.00	-15.04	3	Vertical	143	2.70	-
2412MHz	Pass	PK	2.4098G	99.91	Inf	-Inf	3	Vertical	143	2.70	-
2412MHz	Pass	AV	2.39G	44.62	54.00	-9.38	3	Horizontal	193	1.63	-
2412MHz	Pass	AV	2.411G	89.31	Inf	-Inf	3	Horizontal	193	1.63	-
2412MHz	Pass	PK	2.3894G	57.51	74.00	-16.49	3	Horizontal	193	1.63	-
2412MHz	Pass	PK	2.4106G	101.37	Inf	-Inf	3	Horizontal	193	1.63	-
2412MHz	Pass	AV	4.82506G	30.38	54.00	-23.62	3	Vertical	54	2.58	-
2412MHz	Pass	PK	4.8241G	45.04	74.00	-28.96	3	Vertical	54	2.58	-
2412MHz	Pass	AV	4.82498G	30.16	54.00	-23.84	3	Horizontal	147	2.86	-
2412MHz	Pass	PK	4.8232G	44.58	74.00	-29.42	3	Horizontal	147	2.86	-
2437MHz	Pass	AV	2.3894G	43.98	54.00	-10.02	3	Vertical	160	2.67	-
2437MHz	Pass	AV	2.4402G	86.54	Inf	-Inf	3	Vertical	160	2.67	-
2437MHz	Pass	AV	2.4966G	44.55	54.00	-9.45	3	Vertical	160	2.67	-
2437MHz	Pass	PK	2.3686G	57.35	74.00	-16.65	3	Vertical	160	2.67	-
2437MHz	Pass	PK	2.4394G	99.01	Inf	-Inf	3	Vertical	160	2.67	-
2437MHz	Pass	PK	2.4974G	59.20	74.00	-14.80	3	Vertical	160	2.67	-
2437MHz	Pass	AV	2.3878G	43.99	54.00	-10.01	3	Horizontal	205	2.00	-
2437MHz	Pass	AV	2.4418G	87.33	Inf	-Inf	3	Horizontal	205	2.00	-
2437MHz	Pass	AV	2.4838G	44.58	54.00	-9.42	3	Horizontal	205	2.00	-
2437MHz	Pass	PK	2.3446G	58.42	74.00	-15.58	3	Horizontal	205	2.00	-
2437MHz	Pass	PK	2.4386G	99.88	Inf	-Inf	3	Horizontal	205	2.00	-
2437MHz	Pass	PK	2.485G	58.23	74.00	-15.77	3	Horizontal	205	2.00	-
2437MHz	Pass	AV	4.87272G	29.17	54.00	-24.83	3	Vertical	62	2.52	-
2437MHz	Pass	PK	4.87644G	43.72	74.00	-30.28	3	Vertical	62	2.52	-
2437MHz	Pass	AV	4.87016G	29.34	54.00	-24.66	3	Horizontal	92	2.43	-
2437MHz	Pass	PK	4.87712G	43.84	74.00	-30.16	3	Horizontal	92	2.43	-
2462MHz	Pass	AV	2.4696G	83.97	Inf	-Inf	3	Vertical	160	2.62	-
2462MHz	Pass	AV	2.4836G	44.72	54.00	-9.28	3	Vertical	160	2.62	-
2462MHz	Pass	PK	2.4684G	95.88	Inf	-Inf	3	Vertical	160	2.62	-
2462MHz	Pass	PK	2.4958G	58.22	74.00	-15.78	3	Vertical	160	2.62	-
2462MHz	Pass	AV	2.4698G	87.00	Inf	-Inf	3	Horizontal	202	1.50	-
2462MHz	Pass	AV	2.484G	44.81	54.00	-9.19	3	Horizontal	202	1.50	-
2462MHz	Pass	PK	2.47G	98.66	Inf	-Inf	3	Horizontal	202	1.50	-
2462MHz	Pass	PK	2.4962G	58.05	74.00	-15.95	3	Horizontal	202	1.50	-
2462MHz	Pass	AV	4.92468G	29.78	54.00	-24.22	3	Vertical	64	2.92	-
2462MHz	Pass	PK	4.92134G	44.19	74.00	-29.81	3	Vertical	64	2.92	-
2462MHz	Pass	AV	4.924G	30.21	54.00	-23.79	3	Horizontal	84	2.63	-
2462MHz	Pass	PK	4.92018G	45.44	74.00	-28.56	3	Horizontal	84	2.63	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.39G	48.52	54.00	-5.48	3	Vertical	209	1.14	-
2422MHz	Pass	AV	2.4048G	81.45	Inf	-Inf	3	Vertical	209	1.14	-
2422MHz	Pass	AV	2.4932G	46.10	54.00	-7.90	3	Vertical	209	1.14	-
2422MHz	Pass	PK	2.3896G	58.74	74.00	-15.26	3	Vertical	209	1.14	-
2422MHz	Pass	PK	2.41G	92.52	Inf	-Inf	3	Vertical	209	1.14	-
2422MHz	Pass	PK	2.488G	58.64	74.00	-15.36	3	Vertical	209	1.14	-
2422MHz	Pass	AV	2.3896G	49.98	54.00	-4.02	3	Horizontal	208	1.50	-
2422MHz	Pass	AV	2.4196G	85.78	Inf	-Inf	3	Horizontal	208	1.50	-
2422MHz	Pass	AV	2.4944G	46.01	54.00	-7.99	3	Horizontal	208	1.50	-
2422MHz	Pass	PK	2.39G	60.34	74.00	-13.66	3	Horizontal	208	1.50	-
2422MHz	Pass	PK	2.418G	96.63	Inf	-Inf	3	Horizontal	208	1.50	-
2422MHz	Pass	PK	2.4864G	58.42	74.00	-15.58	3	Horizontal	208	1.50	-
2422MHz	Pass	AV	4.84414G	27.81	54.00	-26.19	3	Vertical	71	2.32	-
2422MHz	Pass	PK	4.84132G	42.34	74.00	-31.66	3	Vertical	71	2.32	-
2422MHz	Pass	AV	4.84392G	28.69	54.00	-25.31	3	Horizontal	146	1.00	-
2422MHz	Pass	PK	4.8455G	43.47	74.00	-30.53	3	Horizontal	146	1.00	-
2437MHz	Pass	AV	2.3894G	45.63	54.00	-8.37	3	Vertical	231	3.00	-
2437MHz	Pass	AV	2.4398G	84.59	Inf	-Inf	3	Vertical	231	3.00	-
2437MHz	Pass	AV	2.4966G	46.24	54.00	-7.76	3	Vertical	231	3.00	-
2437MHz	Pass	PK	2.3738G	58.13	74.00	-15.87	3	Vertical	231	3.00	-
2437MHz	Pass	PK	2.4394G	95.38	Inf	-Inf	3	Vertical	231	3.00	-
2437MHz	Pass	PK	2.4846G	58.08	74.00	-15.92	3	Vertical	231	3.00	-
2437MHz	Pass	AV	2.3874G	45.48	54.00	-8.52	3	Horizontal	203	2.17	-
2437MHz	Pass	AV	2.441G	87.71	Inf	-Inf	3	Horizontal	203	2.17	-
2437MHz	Pass	AV	2.4838G	46.42	54.00	-7.58	3	Horizontal	203	2.17	-
2437MHz	Pass	PK	2.3734G	57.86	74.00	-16.14	3	Horizontal	203	2.17	-
2437MHz	Pass	PK	2.439G	97.75	Inf	-Inf	3	Horizontal	203	2.17	-
2437MHz	Pass	PK	2.4878G	58.65	74.00	-15.35	3	Horizontal	203	2.17	-
2437MHz	Pass	AV	4.88152G	29.78	54.00	-24.22	3	Vertical	158	1.50	-
2437MHz	Pass	PK	4.86632G	42.97	74.00	-31.03	3	Vertical	158	1.50	-
2437MHz	Pass	AV	4.89184G	30.14	54.00	-23.86	3	Horizontal	217	1.50	-
2437MHz	Pass	PK	4.89264G	42.19	74.00	-31.81	3	Horizontal	217	1.50	-
2452MHz	Pass	AV	2.3856G	45.72	54.00	-8.28	3	Vertical	213	2.68	-
2452MHz	Pass	AV	2.4476G	82.44	Inf	-Inf	3	Vertical	213	2.68	-
2452MHz	Pass	AV	2.4835G	46.35	54.00	-7.65	3	Vertical	213	2.68	-
2452MHz	Pass	PK	2.3564G	57.49	74.00	-16.51	3	Vertical	213	2.68	-
2452MHz	Pass	PK	2.4492G	93.89	Inf	-Inf	3	Vertical	213	2.68	-
2452MHz	Pass	PK	2.4835G	58.13	74.00	-15.87	3	Vertical	213	2.68	-
2452MHz	Pass	AV	2.3868G	45.29	54.00	-8.71	3	Horizontal	202	1.96	-
2452MHz	Pass	AV	2.4472G	86.56	Inf	-Inf	3	Horizontal	202	1.96	-
2452MHz	Pass	AV	2.4835G	47.73	54.00	-6.27	3	Horizontal	202	1.96	-
2452MHz	Pass	PK	2.3824G	58.35	74.00	-15.65	3	Horizontal	202	1.96	-
2452MHz	Pass	PK	2.4432G	97.93	Inf	-Inf	3	Horizontal	202	1.96	-
2452MHz	Pass	PK	2.4844G	59.54	74.00	-14.46	3	Horizontal	202	1.96	-
2452MHz	Pass	AV	4.9216G	30.31	54.00	-23.69	3	Vertical	288	1.50	-
2452MHz	Pass	PK	4.90776G	42.78	74.00	-31.22	3	Vertical	288	1.50	-
2452MHz	Pass	AV	4.90136G	31.72	54.00	-22.28	3	Horizontal	91	2.81	-
2452MHz	Pass	PK	4.90656G	44.19	74.00	-29.81	3	Horizontal	91	2.81	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

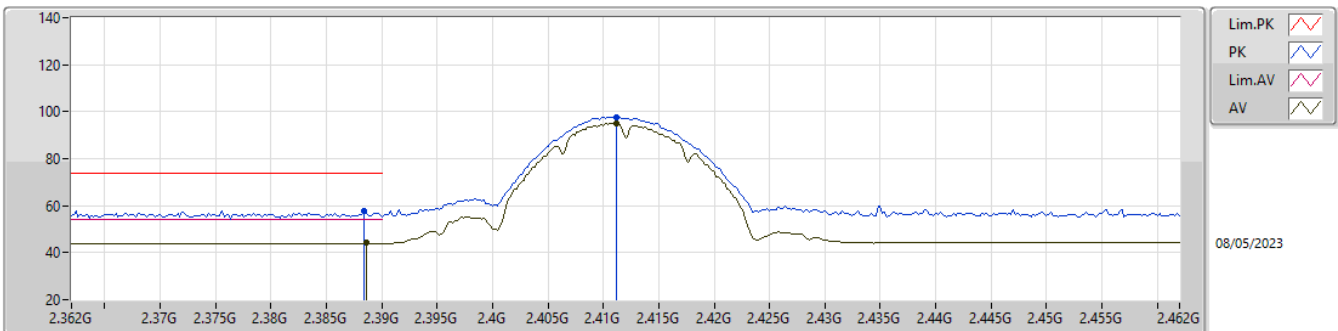
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3876G	43.98	54.00	-10.02	31.75	3	Vertical	174	1.95	12.23	27.50	4.25	-
AV	2.4112G	92.88	Inf	-Inf	31.89	3	Vertical	174	1.95	60.99	27.62	4.27	-
PK	2.3688G	57.34	74.00	-16.66	31.58	3	Vertical	174	1.95	25.76	27.35	4.23	-
PK	2.4112G	95.60	Inf	-Inf	31.89	3	Vertical	174	1.95	63.71	27.62	4.27	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

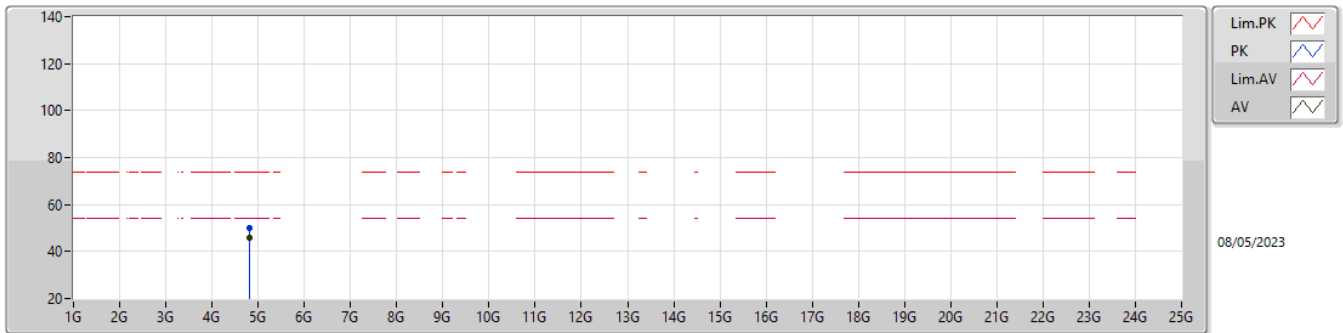
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3886G	44.10	54.00	-9.90	31.76	3	Horizontal	163	1.19	12.34	27.51	4.25	-
AV	2.4112G	95.06	Inf	-Inf	31.89	3	Horizontal	163	1.19	63.17	27.62	4.27	-
PK	2.3884G	57.70	74.00	-16.30	31.76	3	Horizontal	163	1.19	25.94	27.51	4.25	-
PK	2.4112G	97.78	Inf	-Inf	31.89	3	Horizontal	163	1.19	65.89	27.62	4.27	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

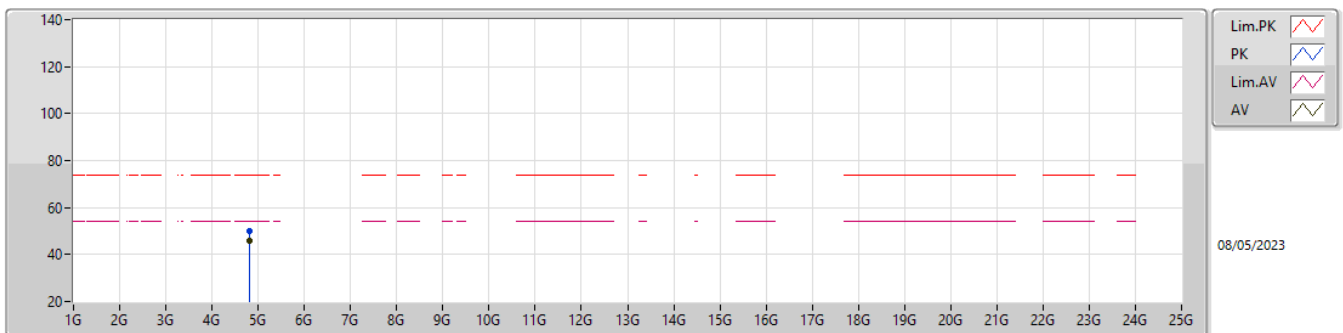
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82397G	45.82	54.00	-8.18	4.34	3	Vertical	65	2.41	41.48	32.34	6.18	34.18
PK	4.82399G	50.13	74.00	-23.87	4.34	3	Vertical	65	2.41	45.79	32.34	6.18	34.18

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

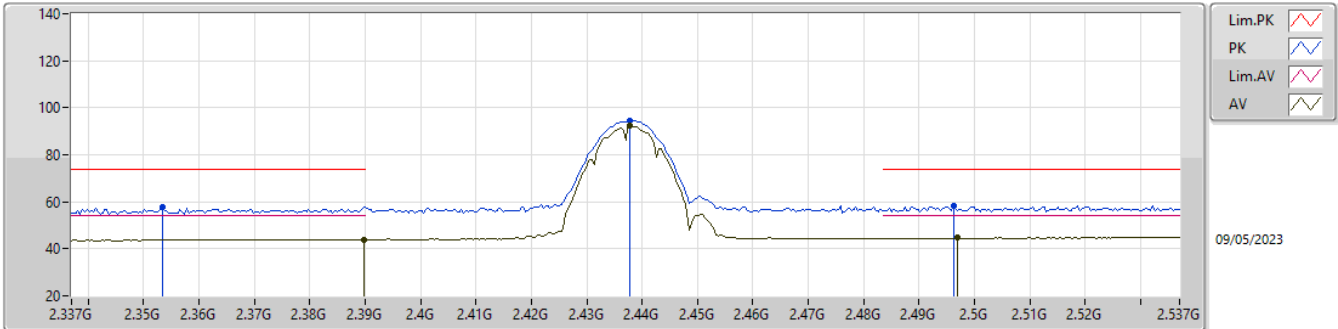
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82397G	45.83	54.00	-8.17	4.34	3	Horizontal	146	1.07	41.49	32.34	6.18	34.18
PK	4.82413G	50.04	74.00	-23.96	4.34	3	Horizontal	146	1.07	45.70	32.34	6.18	34.18

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

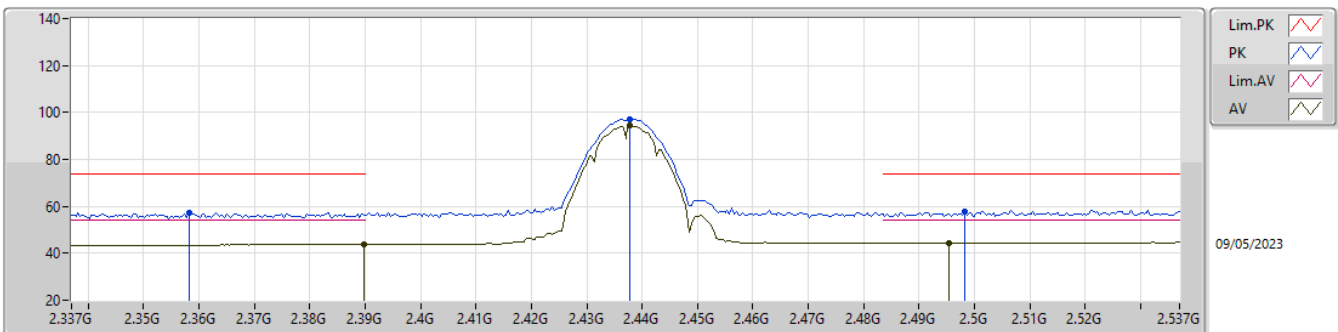
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	43.96	54.00	-10.04	31.77	3	Vertical	52	2.88	12.19	27.52	4.25	-
AV	2.4378G	92.67	Inf	-Inf	31.96	3	Vertical	52	2.88	60.71	27.68	4.28	-
AV	2.497G	44.57	54.00	-9.43	32.21	3	Vertical	52	2.88	12.36	27.89	4.32	-
PK	2.3534G	57.88	74.00	-16.12	31.45	3	Vertical	52	2.88	26.43	27.23	4.22	-
PK	2.4378G	94.60	Inf	-Inf	31.96	3	Vertical	52	2.88	62.64	27.68	4.28	-
PK	2.4962G	58.02	74.00	-15.98	32.20	3	Vertical	52	2.88	25.82	27.88	4.32	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

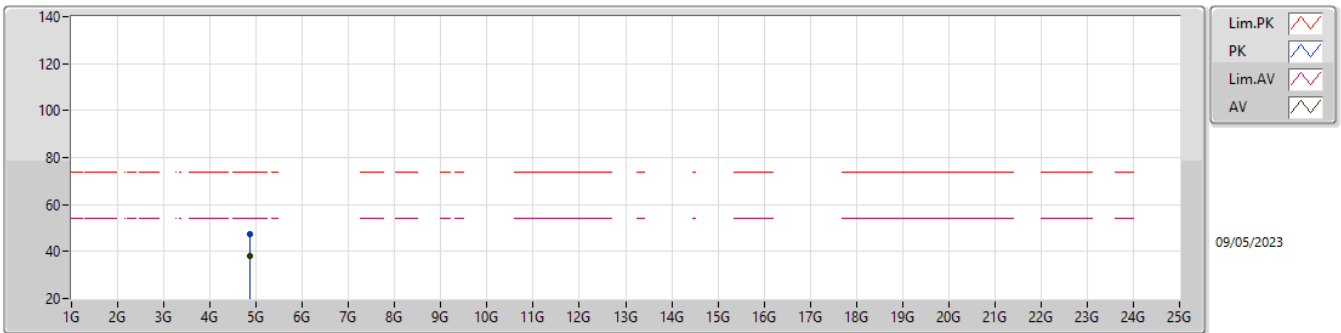
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	43.78	54.00	-10.22	31.77	3	Horizontal	323	3.00	12.01	27.52	4.25	-
AV	2.4378G	94.34	Inf	-Inf	31.96	3	Horizontal	323	3.00	62.38	27.68	4.28	-
AV	2.4954G	44.36	54.00	-9.64	32.20	3	Horizontal	323	3.00	12.16	27.88	4.32	-
PK	2.3582G	57.27	74.00	-16.73	31.49	3	Horizontal	323	3.00	25.78	27.27	4.22	-
PK	2.4378G	97.32	Inf	-Inf	31.96	3	Horizontal	323	3.00	65.36	27.68	4.28	-
PK	2.4982G	57.53	74.00	-16.47	32.21	3	Horizontal	323	3.00	25.32	27.89	4.32	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

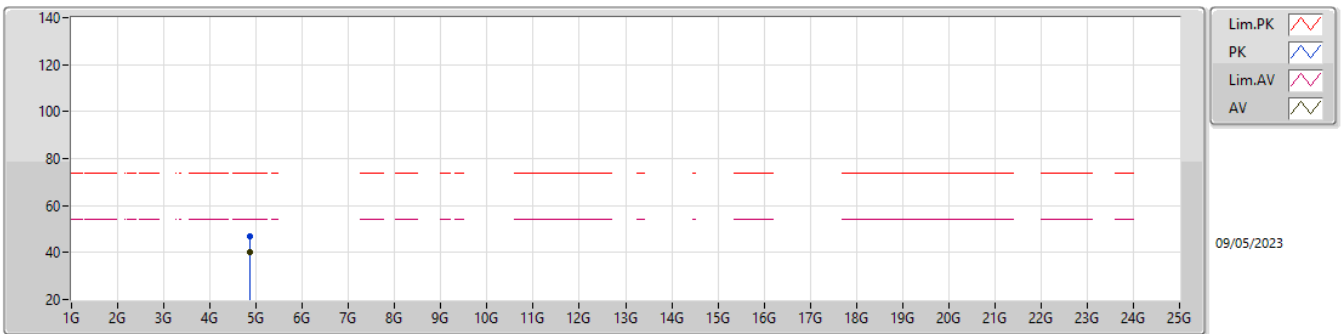
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87408G	38.12	54.00	-15.88	4.64	3	Vertical	360	2.91	33.48	32.60	6.21	34.17
PK	4.87381G	47.24	74.00	-26.76	4.64	3	Vertical	360	2.91	42.60	32.60	6.21	34.17

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

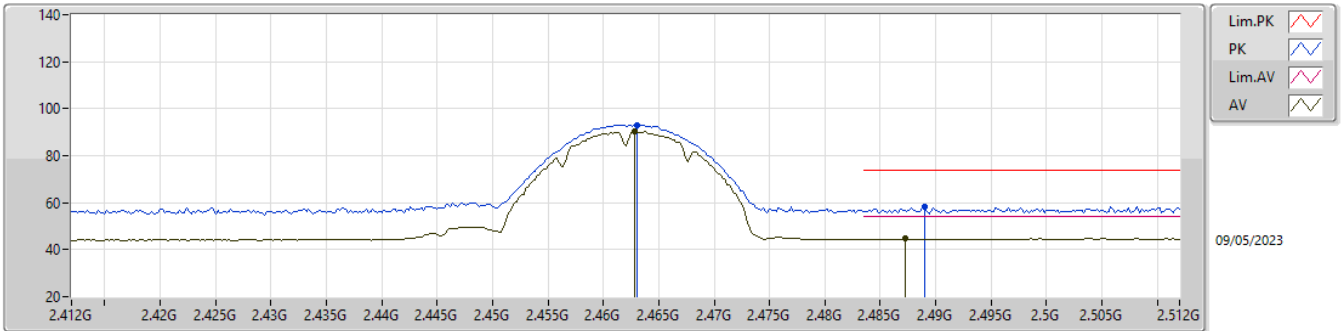
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87398G	40.42	54.00	-13.58	4.64	3	Horizontal	149	1.15	35.78	32.60	6.21	34.17
PK	4.87398G	47.03	74.00	-26.97	4.64	3	Horizontal	149	1.15	42.39	32.60	6.21	34.17

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

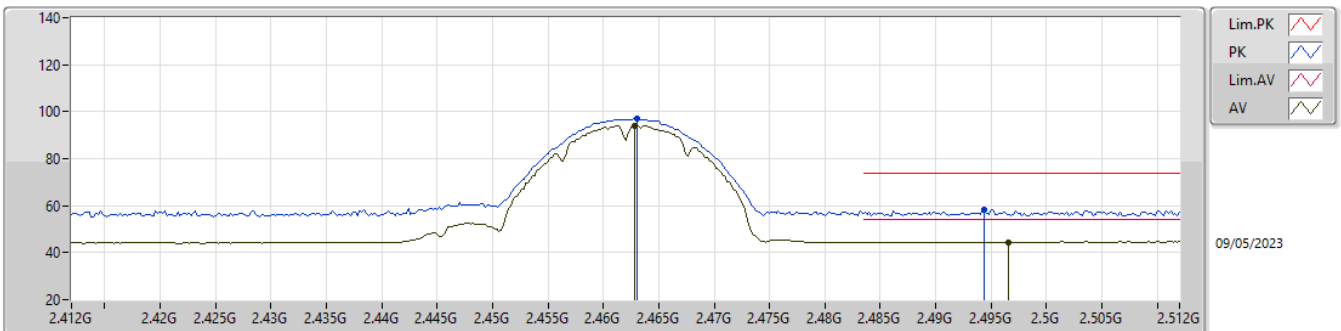
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4628G	90.33	Inf	-Inf	32.05	3	Vertical	221	2.90	58.28	27.75	4.30	-
AV	2.4872G	44.60	54.00	-9.40	32.16	3	Vertical	221	2.90	12.44	27.85	4.31	-
PK	2.463G	93.11	Inf	-Inf	32.05	3	Vertical	221	2.90	61.06	27.75	4.30	-
PK	2.489G	58.22	74.00	-15.78	32.17	3	Vertical	221	2.90	26.05	27.86	4.31	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

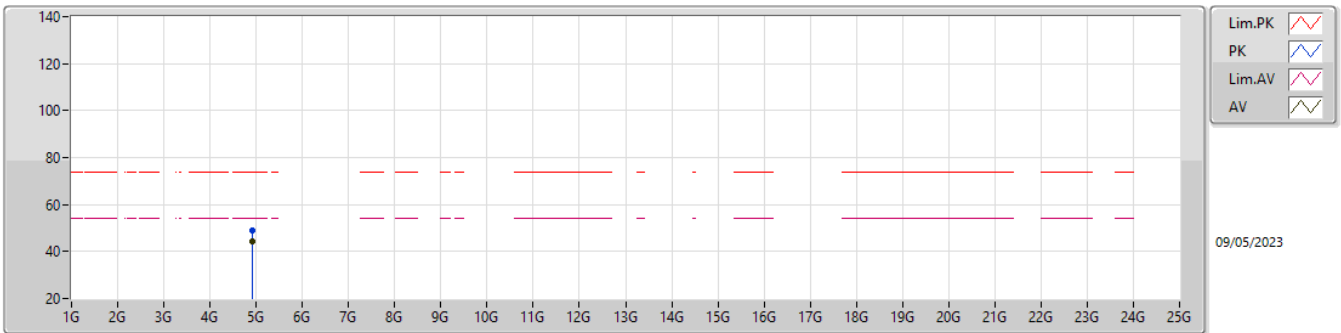
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4628G	94.18	Inf	-Inf	32.05	3	Horizontal	204	1.50	62.13	27.75	4.30	-
AV	2.4966G	44.53	54.00	-9.47	32.21	3	Horizontal	204	1.50	12.32	27.89	4.32	-
PK	2.463G	97.05	Inf	-Inf	32.05	3	Horizontal	204	1.50	65.00	27.75	4.30	-
PK	2.4944G	58.43	74.00	-15.57	32.20	3	Horizontal	204	1.50	26.23	27.88	4.32	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

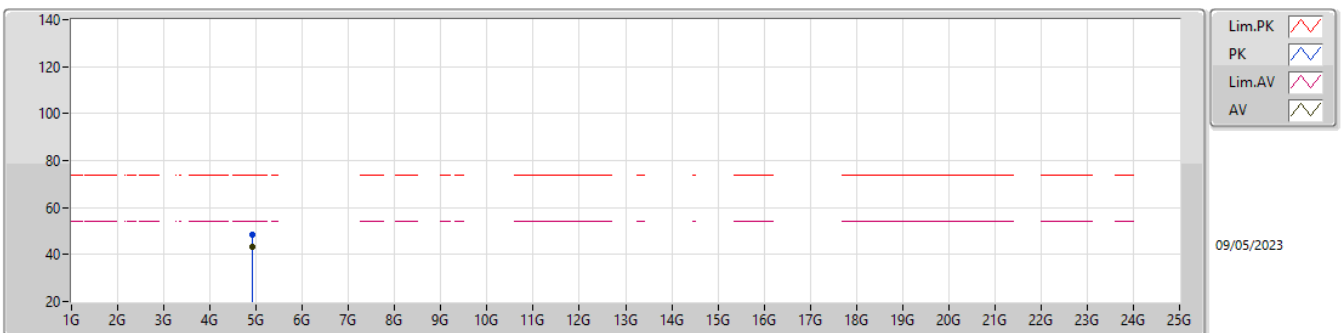
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92398G	44.53	54.00	-9.47	4.94	3	Vertical	10	3.00	39.59	32.84	6.25	34.15
PK	4.924G	48.91	74.00	-25.09	4.94	3	Vertical	10	3.00	43.97	32.84	6.25	34.15

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

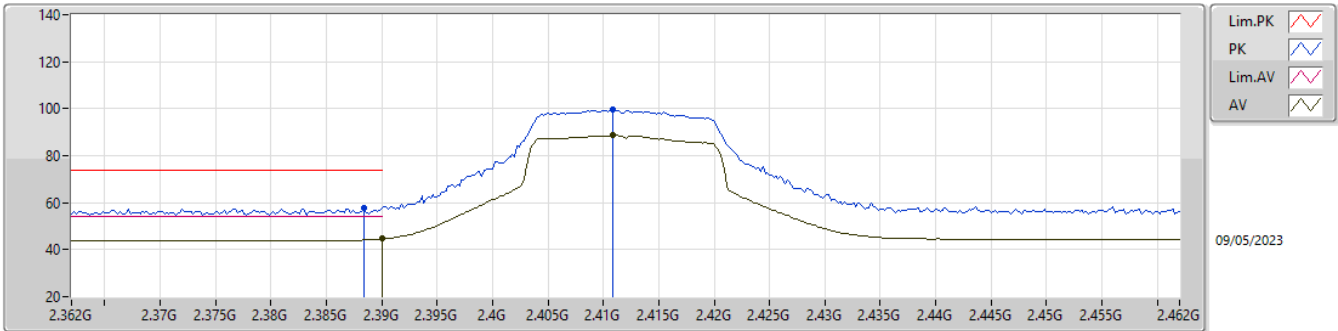
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92399G	43.20	54.00	-10.80	4.94	3	Horizontal	150	1.04	38.26	32.84	6.25	34.15
PK	4.92393G	48.34	74.00	-25.66	4.94	3	Horizontal	150	1.04	43.40	32.84	6.25	34.15

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

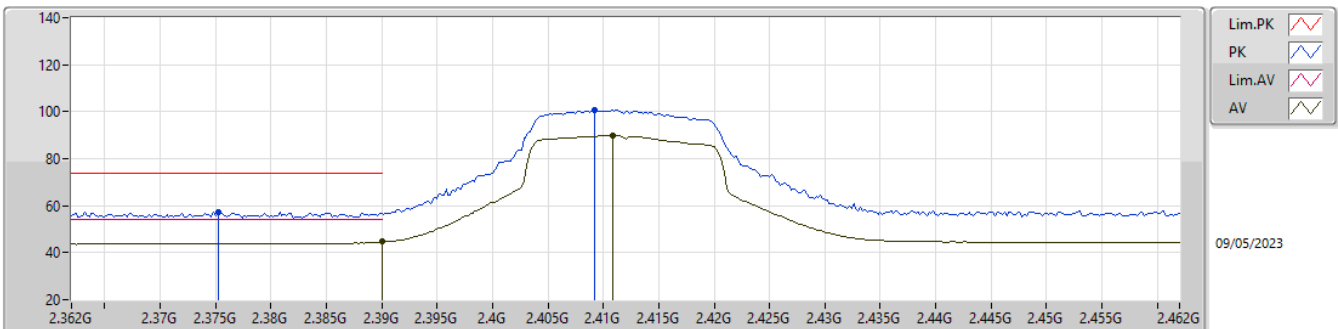
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	44.62	54.00	-9.38	31.77	3	Vertical	141	2.71	12.85	27.52	4.25	-
AV	2.4108G	88.64	Inf	-Inf	31.89	3	Vertical	141	2.71	56.75	27.62	4.27	-
PK	2.3884G	57.65	74.00	-16.35	31.76	3	Vertical	141	2.71	25.89	27.51	4.25	-
PK	2.4108G	99.46	Inf	-Inf	31.89	3	Vertical	141	2.71	67.57	27.62	4.27	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

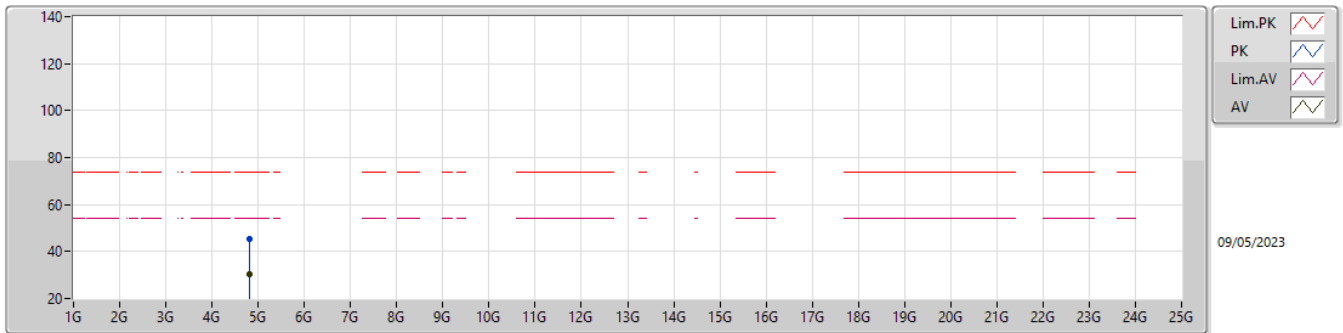
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	44.66	54.00	-9.34	31.77	3	Horizontal	192	1.63	12.89	27.52	4.25	-
AV	2.4108G	89.98	Inf	-Inf	31.89	3	Horizontal	192	1.63	58.09	27.62	4.27	-
PK	2.3752G	57.35	74.00	-16.65	31.64	3	Horizontal	192	1.63	25.71	27.40	4.24	-
PK	2.4092G	100.87	Inf	-Inf	31.89	3	Horizontal	192	1.63	68.98	27.62	4.27	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

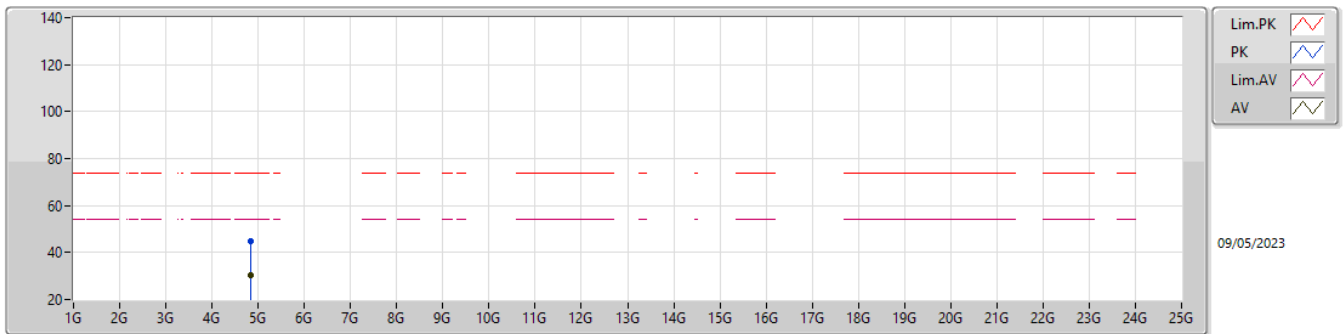
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82322G	30.09	54.00	-23.91	4.34	3	Vertical	65	2.72	25.75	32.34	6.18	34.18
PK	4.82404G	45.10	74.00	-28.90	4.34	3	Vertical	65	2.72	40.76	32.34	6.18	34.18

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

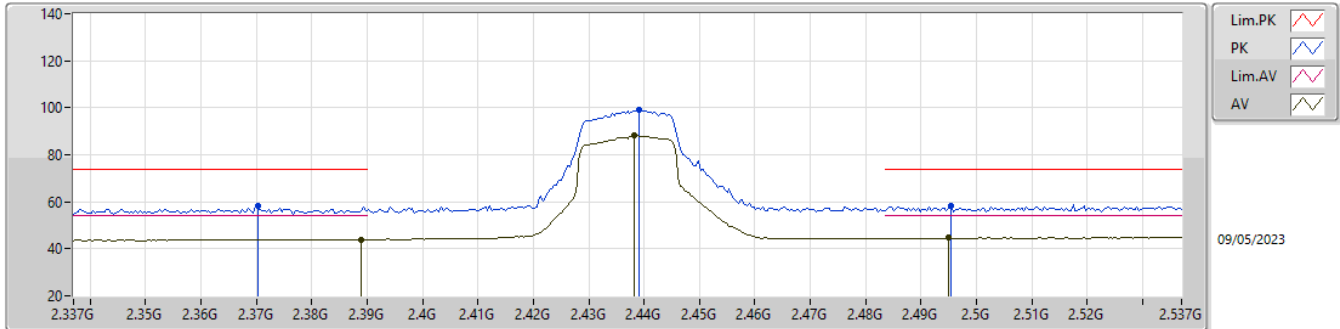
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82506G	30.36	54.00	-23.64	4.35	3	Horizontal	143	1.33	26.01	32.35	6.18	34.18
PK	4.82488G	45.07	74.00	-28.93	4.35	3	Horizontal	143	1.33	40.72	32.35	6.18	34.18

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

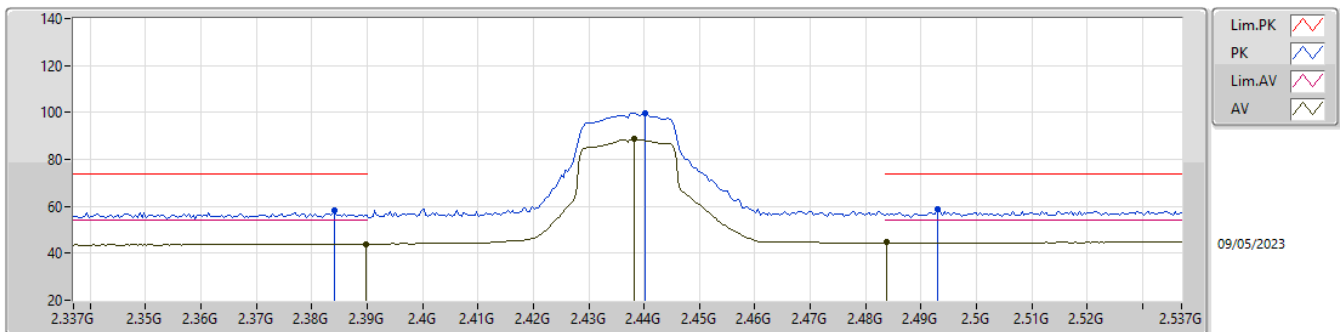
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.389G	44.01	54.00	-9.99	31.76	3	Vertical	145	2.76	12.25	27.51	4.25	-
AV	2.4382G	88.12	Inf	-Inf	31.96	3	Vertical	145	2.76	56.16	27.68	4.28	-
AV	2.495G	44.58	54.00	-9.42	32.20	3	Vertical	145	2.76	12.38	27.88	4.32	-
PK	2.3702G	58.16	74.00	-15.84	31.59	3	Vertical	145	2.76	26.57	27.36	4.23	-
PK	2.439G	98.94	Inf	-Inf	31.96	3	Vertical	145	2.76	66.98	27.68	4.28	-
PK	2.4954G	58.17	74.00	-15.83	32.20	3	Vertical	145	2.76	25.97	27.88	4.32	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

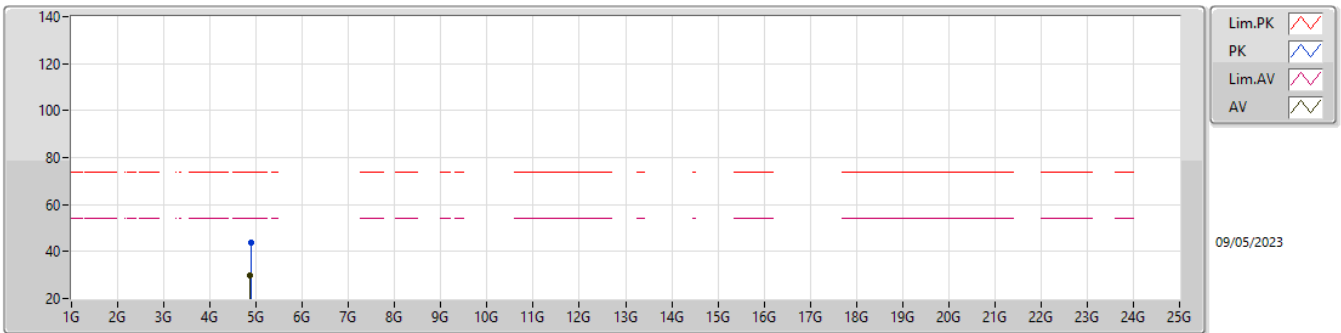
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	43.98	54.00	-10.02	31.77	3	Horizontal	194	1.53	12.21	27.52	4.25	-
AV	2.4382G	88.64	Inf	-Inf	31.96	3	Horizontal	194	1.53	56.68	27.68	4.28	-
AV	2.4838G	44.58	54.00	-9.42	32.15	3	Horizontal	194	1.53	12.43	27.84	4.31	-
PK	2.3842G	58.10	74.00	-15.90	31.72	3	Horizontal	194	1.53	26.38	27.47	4.25	-
PK	2.4402G	99.79	Inf	-Inf	31.96	3	Horizontal	194	1.53	67.83	27.68	4.28	-
PK	2.493G	58.59	74.00	-15.41	32.19	3	Horizontal	194	1.53	26.40	27.87	4.32	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

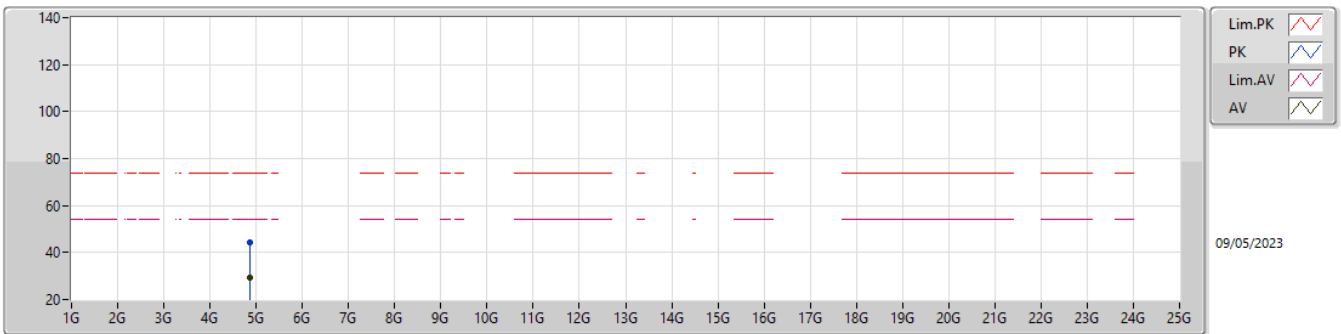
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8739G	29.78	54.00	-24.22	4.64	3	Vertical	357	2.92	25.14	32.60	6.21	34.17
PK	4.87814G	43.87	74.00	-30.13	4.66	3	Vertical	357	2.92	39.21	32.61	6.21	34.16

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

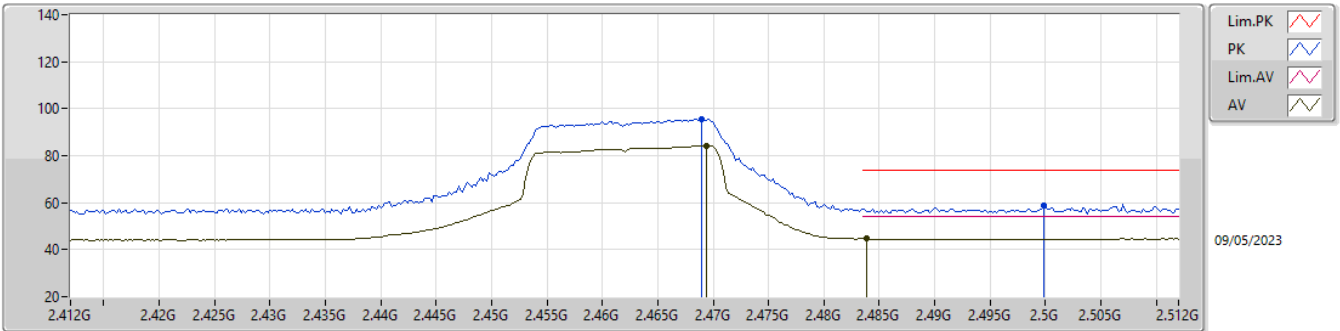
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87234G	29.35	54.00	-24.65	4.63	3	Horizontal	92	2.69	24.72	32.59	6.21	34.17
PK	4.87272G	44.23	74.00	-29.77	4.63	3	Horizontal	92	2.69	39.60	32.59	6.21	34.17

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

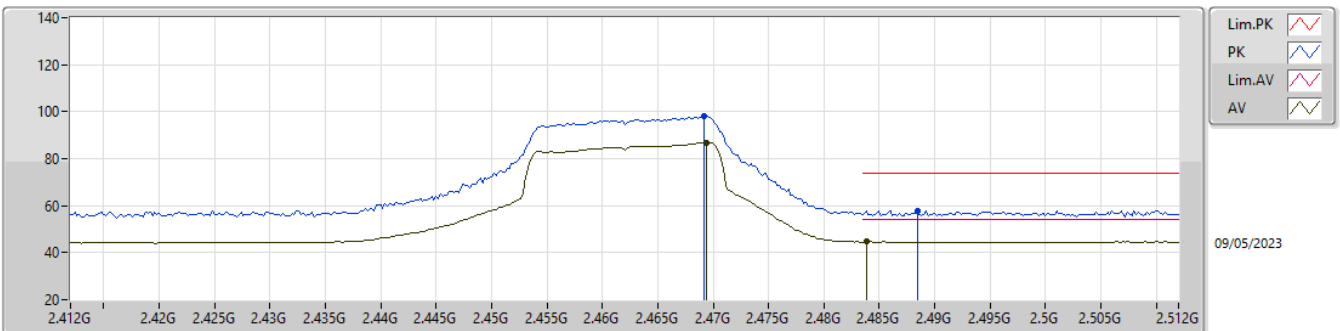
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4694G	84.22	Inf	-Inf	32.08	3	Vertical	219	2.90	52.14	27.78	4.30	-
AV	2.4838G	44.59	54.00	-9.41	32.15	3	Vertical	219	2.90	12.44	27.84	4.31	-
PK	2.469G	95.53	Inf	-Inf	32.08	3	Vertical	219	2.90	63.45	27.78	4.30	-
PK	2.4998G	58.65	74.00	-15.35	32.22	3	Vertical	219	2.90	26.43	27.90	4.32	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

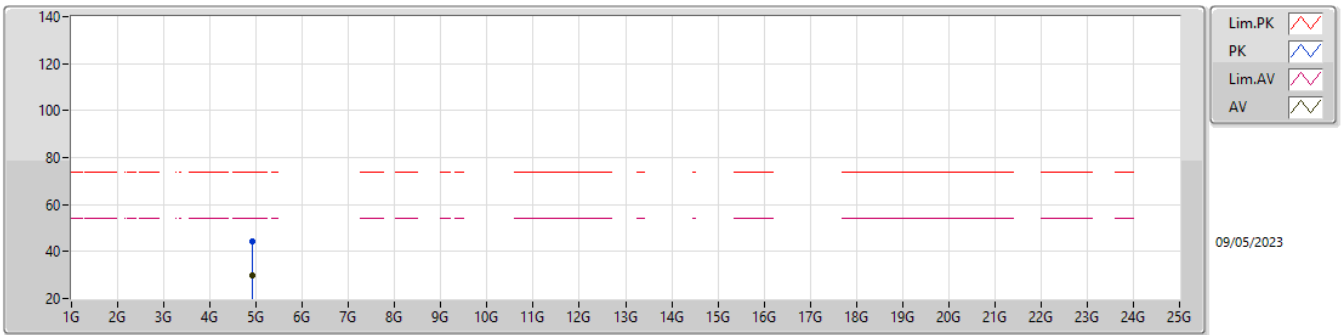
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4694G	86.72	Inf	-Inf	32.08	3	Horizontal	202	1.33	54.64	27.78	4.30	-
AV	2.4838G	44.60	54.00	-9.40	32.15	3	Horizontal	202	1.33	12.45	27.84	4.31	-
PK	2.4692G	97.92	Inf	-Inf	32.08	3	Horizontal	202	1.33	65.84	27.78	4.30	-
PK	2.4884G	57.73	74.00	-16.27	32.16	3	Horizontal	202	1.33	25.57	27.85	4.31	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

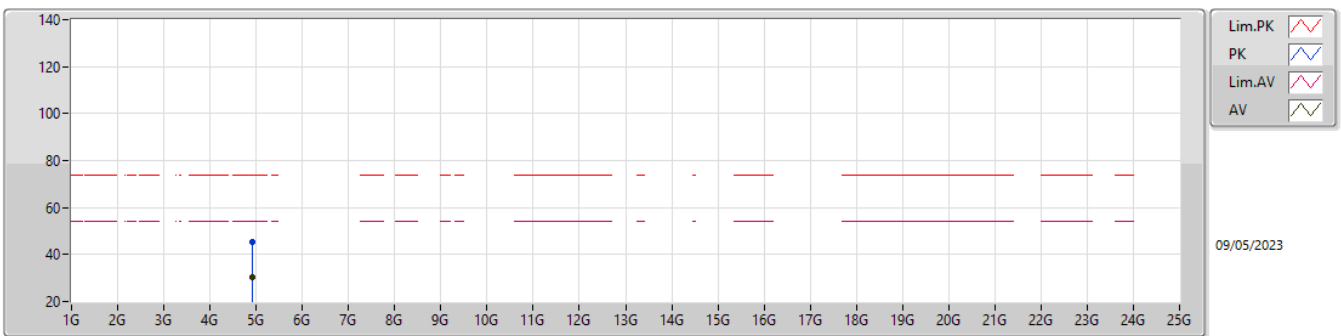
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92392G	30.07	54.00	-23.93	4.94	3	Vertical	12	3.00	25.13	32.84	6.25	34.15
PK	4.92384G	44.36	74.00	-29.64	4.94	3	Vertical	12	3.00	39.42	32.84	6.25	34.15

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

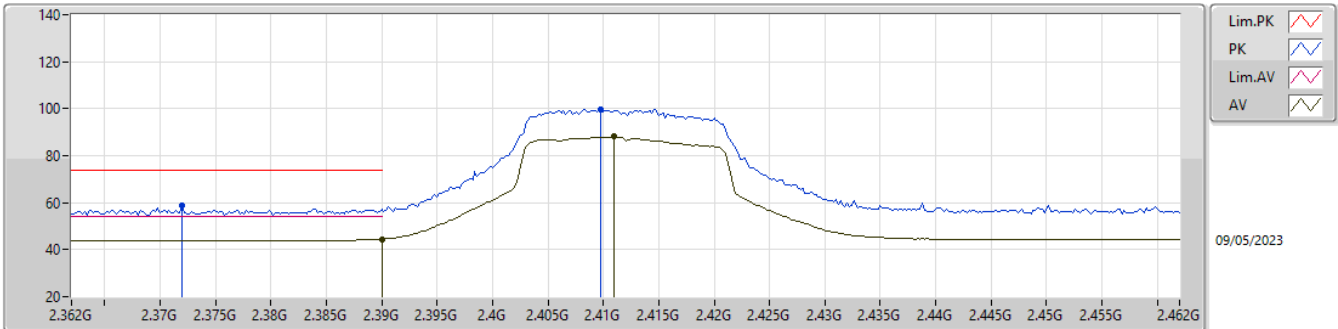
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92218G	30.27	54.00	-23.73	4.93	3	Horizontal	91	2.33	25.34	32.83	6.25	34.15
PK	4.92424G	45.22	74.00	-28.78	4.95	3	Horizontal	91	2.33	40.27	32.85	6.25	34.15

2.4-2.4835GHz_802.11ac_VHT20_Nss1,(MCS0)_1TX

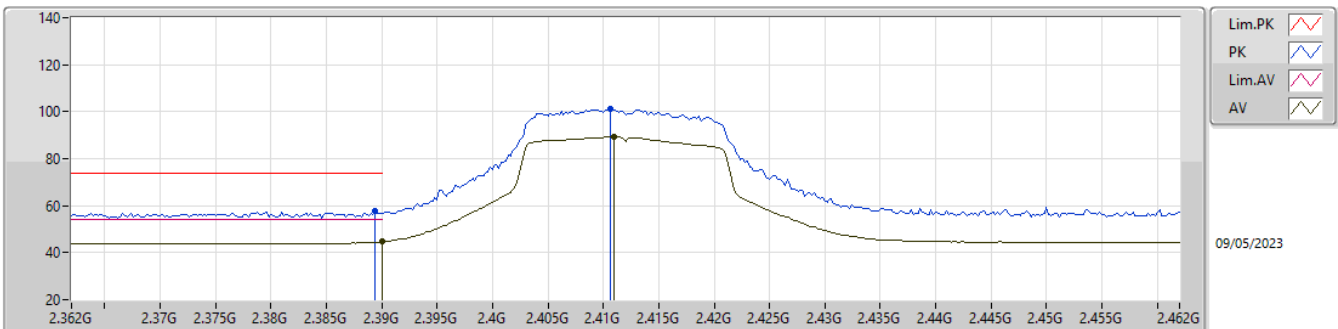
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	44.53	54.00	-9.47	31.77	3	Vertical	143	2.70	12.76	27.52	4.25	-
AV	2.411G	88.08	Inf	-Inf	31.89	3	Vertical	143	2.70	56.19	27.62	4.27	-
PK	2.372G	58.96	74.00	-15.04	31.62	3	Vertical	143	2.70	27.34	27.38	4.24	-
PK	2.4098G	99.91	Inf	-Inf	31.89	3	Vertical	143	2.70	68.02	27.62	4.27	-

2.4-2.4835GHz_802.11ac_VHT20_Nss1,(MCS0)_1TX

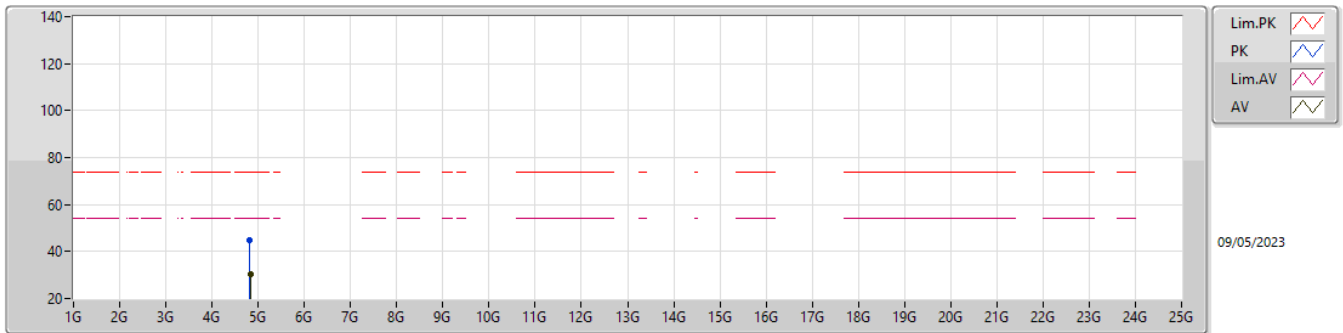
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	44.62	54.00	-9.38	31.77	3	Horizontal	193	1.63	12.85	27.52	4.25	-
AV	2.411G	89.31	Inf	-Inf	31.89	3	Horizontal	193	1.63	57.42	27.62	4.27	-
PK	2.3894G	57.51	74.00	-16.49	31.77	3	Horizontal	193	1.63	25.74	27.52	4.25	-
PK	2.4106G	101.37	Inf	-Inf	31.89	3	Horizontal	193	1.63	69.48	27.62	4.27	-

2.4-2.4835GHz_802.11ac_VHT20_Nss1,(MCS0)_1TX

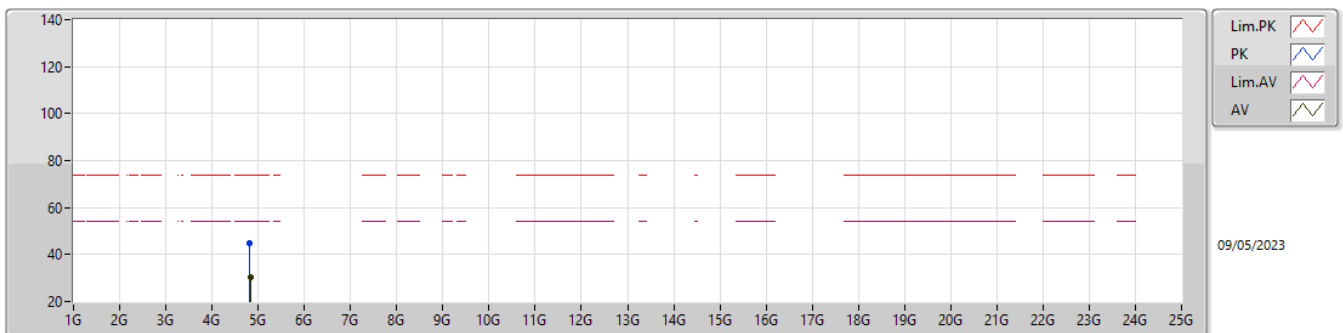
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82506G	30.38	54.00	-23.62	4.35	3	Vertical	54	2.58	26.03	32.35	6.18	34.18
PK	4.8241G	45.04	74.00	-28.96	4.34	3	Vertical	54	2.58	40.70	32.34	6.18	34.18

2.4-2.4835GHz_802.11ac_VHT20_Nss1,(MCS0)_1TX

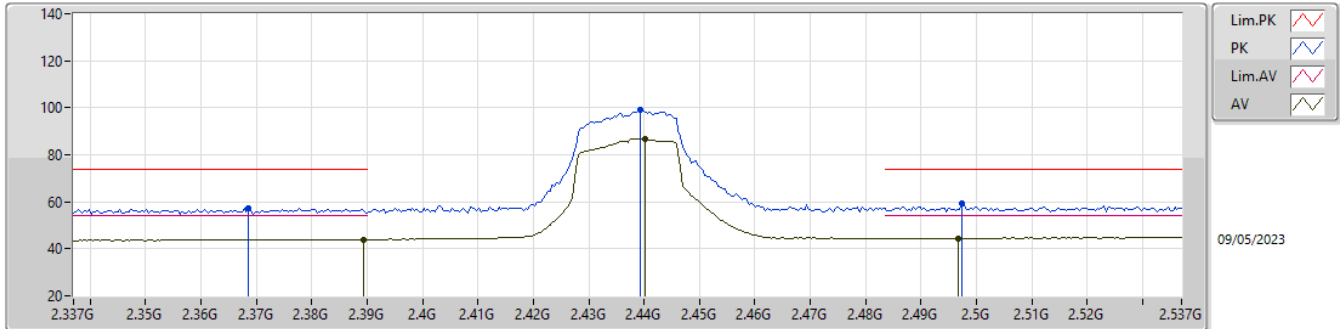
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82498G	30.16	54.00	-23.84	4.35	3	Horizontal	147	2.86	25.81	32.35	6.18	34.18
PK	4.8232G	44.58	74.00	-29.42	4.34	3	Horizontal	147	2.86	40.24	32.34	6.18	34.18

2.4-2.4835GHz_802.11ac_VHT20_Nss1,(MCS0)_1TX

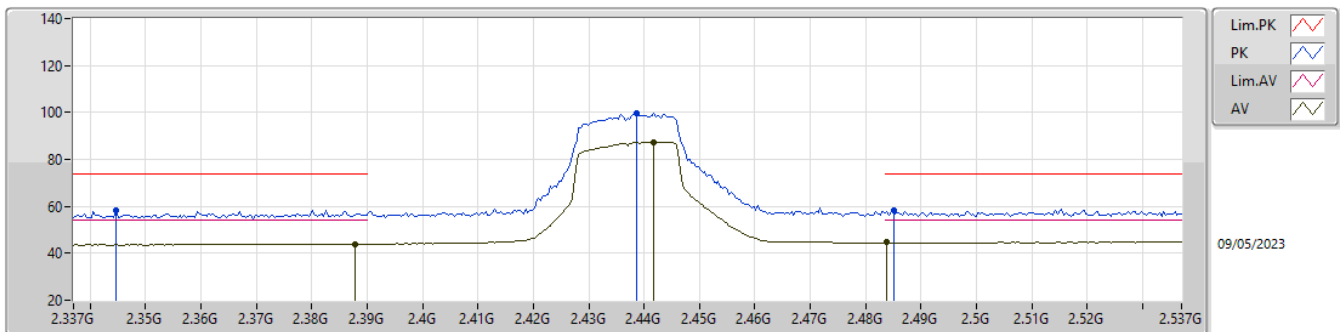
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	43.98	54.00	-10.02	31.77	3	Vertical	160	2.67	12.21	27.52	4.25	-
AV	2.4402G	86.54	Inf	-Inf	31.96	3	Vertical	160	2.67	54.58	27.68	4.28	-
AV	2.4966G	44.55	54.00	-9.45	32.21	3	Vertical	160	2.67	12.34	27.89	4.32	-
PK	2.3686G	57.35	74.00	-16.65	31.58	3	Vertical	160	2.67	25.77	27.35	4.23	-
PK	2.4394G	99.01	Inf	-Inf	31.96	3	Vertical	160	2.67	67.05	27.68	4.28	-
PK	2.4974G	59.20	74.00	-14.80	32.21	3	Vertical	160	2.67	26.99	27.89	4.32	-

2.4-2.4835GHz_802.11ac_VHT20_Nss1,(MCS0)_1TX

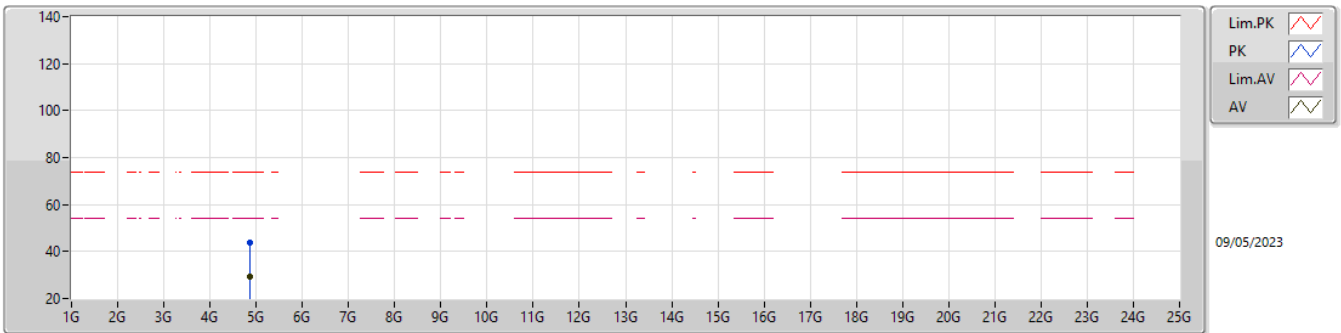
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3878G	43.99	54.00	-10.01	31.75	3	Horizontal	205	2.00	12.24	27.50	4.25	-
AV	2.4418G	87.33	Inf	-Inf	31.97	3	Horizontal	205	2.00	55.36	27.68	4.29	-
AV	2.4838G	44.58	54.00	-9.42	32.15	3	Horizontal	205	2.00	12.43	27.84	4.31	-
PK	2.3446G	58.42	74.00	-15.58	31.41	3	Horizontal	205	2.00	27.01	27.20	4.21	-
PK	2.4386G	99.88	Inf	-Inf	31.96	3	Horizontal	205	2.00	67.92	27.68	4.28	-
PK	2.485G	58.23	74.00	-15.77	32.15	3	Horizontal	205	2.00	26.08	27.84	4.31	-

2.4-2.4835GHz_802.11ac_VHT20_Nss1,(MCS0)_1TX

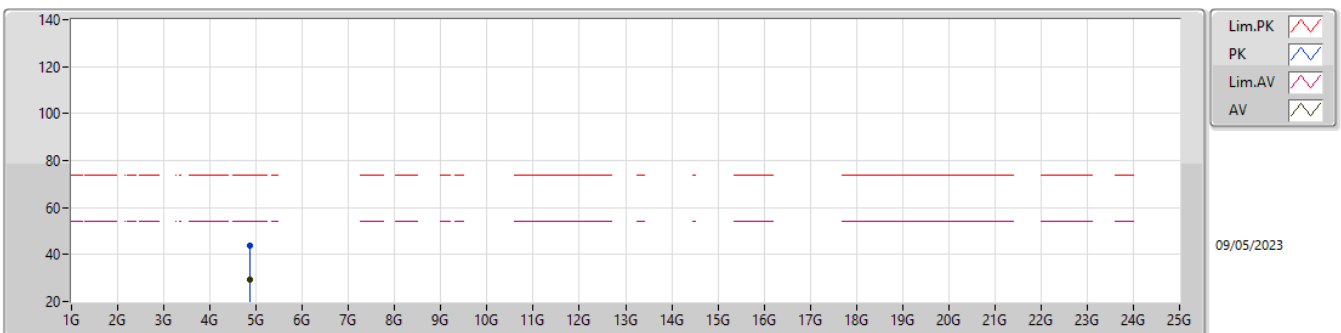
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87272G	29.17	54.00	-24.83	4.63	3	Vertical	62	2.52	24.54	32.59	6.21	34.17
PK	4.87644G	43.72	74.00	-30.28	4.66	3	Vertical	62	2.52	39.06	32.61	6.21	34.16

2.4-2.4835GHz_802.11ac_VHT20_Nss1,(MCS0)_1TX

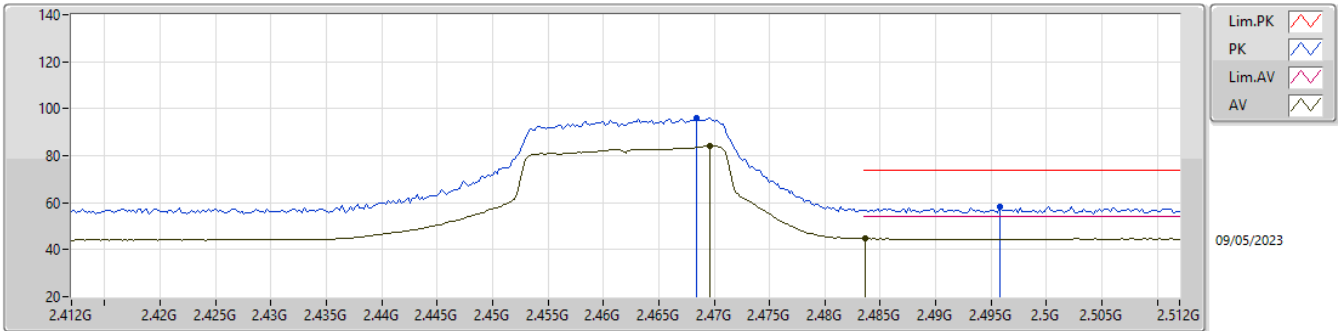
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87016G	29.34	54.00	-24.66	4.62	3	Horizontal	92	2.43	24.72	32.58	6.21	34.17
PK	4.87712G	43.84	74.00	-30.16	4.66	3	Horizontal	92	2.43	39.18	32.61	6.21	34.16

2.4-2.4835GHz_802.11ac_VHT20_Nss1,(MCS0)_1TX

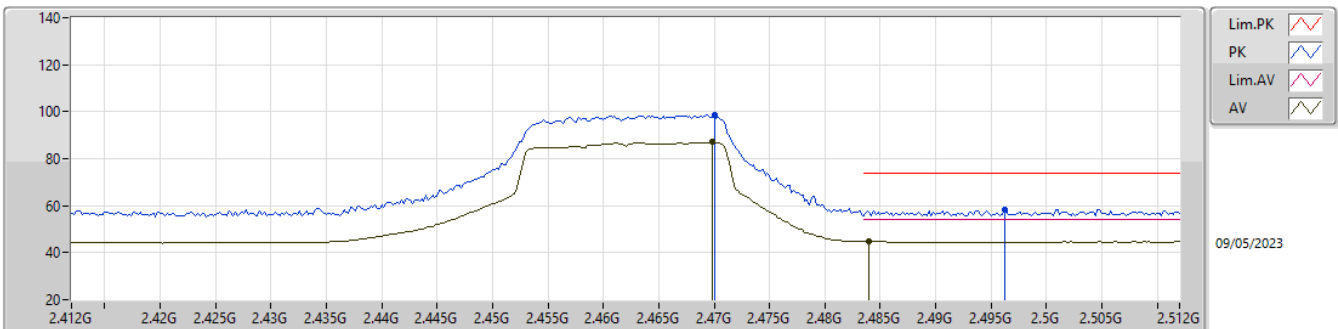
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4696G	83.97	Inf	-Inf	32.08	3	Vertical	160	2.62	51.89	27.78	4.30	-
AV	2.4836G	44.72	54.00	-9.28	32.14	3	Vertical	160	2.62	12.58	27.83	4.31	-
PK	2.4684G	95.88	Inf	-Inf	32.07	3	Vertical	160	2.62	63.81	27.77	4.30	-
PK	2.4958G	58.22	74.00	-15.78	32.20	3	Vertical	160	2.62	26.02	27.88	4.32	-

2.4-2.4835GHz_802.11ac_VHT20_Nss1,(MCS0)_1TX

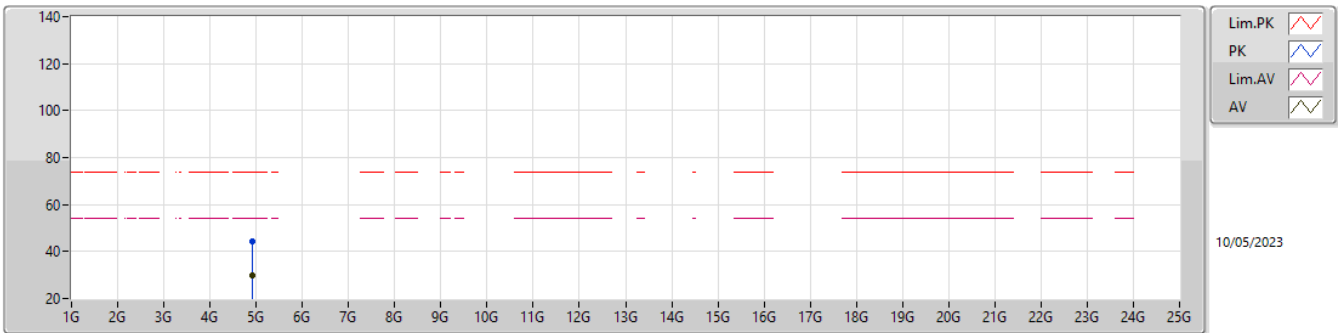
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4698G	87.00	Inf	-Inf	32.08	3	Horizontal	202	1.50	54.92	27.78	4.30	-
AV	2.484G	44.81	54.00	-9.19	32.15	3	Horizontal	202	1.50	12.66	27.84	4.31	-
PK	2.47G	98.66	Inf	-Inf	32.08	3	Horizontal	202	1.50	66.58	27.78	4.30	-
PK	2.4962G	58.05	74.00	-15.95	32.20	3	Horizontal	202	1.50	25.85	27.88	4.32	-

2.4-2.4835GHz_802.11ac_VHT20_Nss1,(MCS0)_1TX

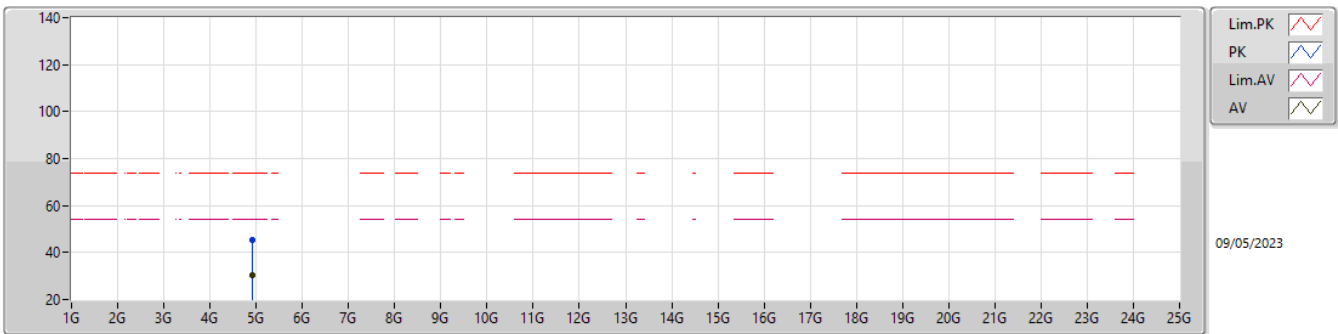
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92468G	29.78	54.00	-24.22	4.95	3	Vertical	64	2.92	24.83	32.85	6.25	34.15
PK	4.92134G	44.19	74.00	-29.81	4.92	3	Vertical	64	2.92	39.27	32.83	6.24	34.15

2.4-2.4835GHz_802.11ac_VHT20_Nss1,(MCS0)_1TX

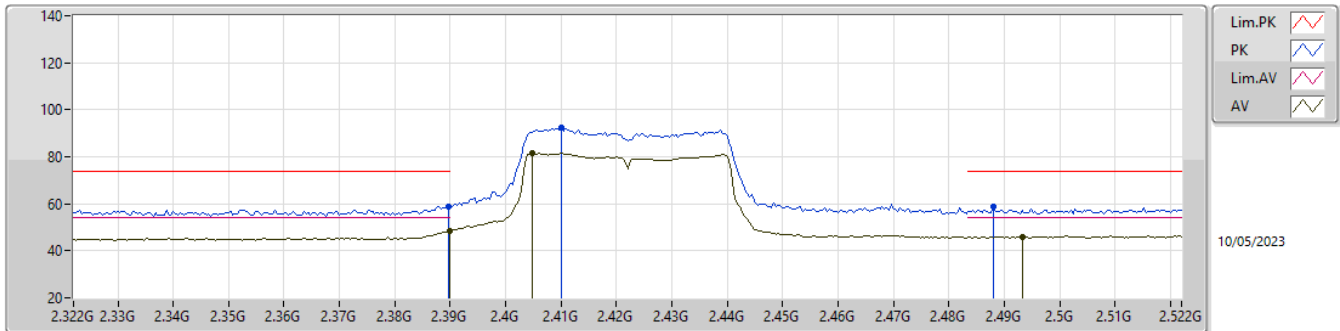
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.924G	30.21	54.00	-23.79	4.94	3	Horizontal	84	2.63	25.27	32.84	6.25	34.15
PK	4.92018G	45.44	74.00	-28.56	4.91	3	Horizontal	84	2.63	40.53	32.82	6.24	34.15

2.4-2.4835GHz_802.11ac_VHT40_Nss1,(MCS0)_1TX

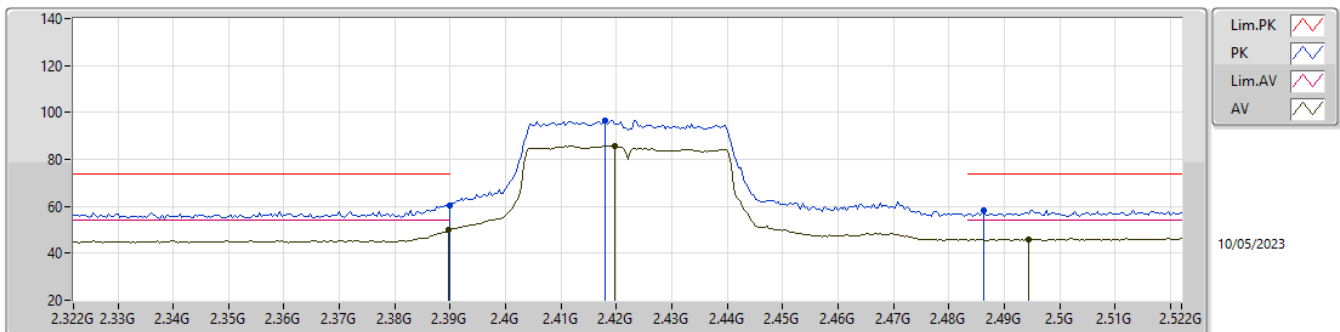
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	48.52	54.00	-5.48	31.77	3	Vertical	209	1.14	16.75	27.52	4.25	-
AV	2.4048G	81.45	Inf	-Inf	31.87	3	Vertical	209	1.14	49.58	27.61	4.26	-
AV	2.4932G	46.10	54.00	-7.90	32.19	3	Vertical	209	1.14	13.91	27.87	4.32	-
PK	2.3896G	58.74	74.00	-15.26	31.77	3	Vertical	209	1.14	26.97	27.52	4.25	-
PK	2.41G	92.52	Inf	-Inf	31.89	3	Vertical	209	1.14	60.63	27.62	4.27	-
PK	2.488G	58.64	74.00	-15.36	32.16	3	Vertical	209	1.14	26.48	27.85	4.31	-

2.4-2.4835GHz_802.11ac_VHT40_Nss1,(MCS0)_1TX

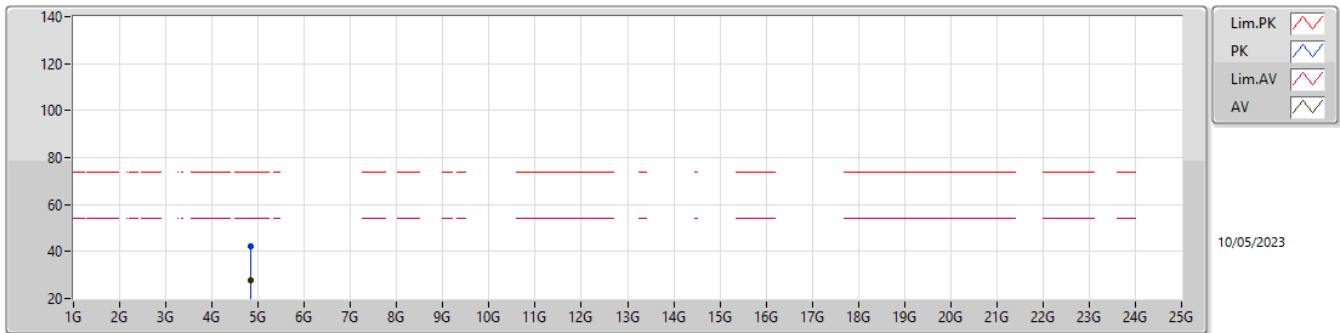
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3896G	49.98	54.00	-4.02	31.77	3	Horizontal	208	1.50	18.21	27.52	4.25	-
AV	2.4196G	85.78	Inf	-Inf	31.91	3	Horizontal	208	1.50	53.87	27.64	4.27	-
AV	2.4944G	46.01	54.00	-7.99	32.20	3	Horizontal	208	1.50	13.81	27.88	4.32	-
PK	2.39G	60.34	74.00	-13.66	31.77	3	Horizontal	208	1.50	28.57	27.52	4.25	-
PK	2.418G	96.63	Inf	-Inf	31.91	3	Horizontal	208	1.50	64.72	27.64	4.27	-
PK	2.4864G	58.42	74.00	-15.58	32.16	3	Horizontal	208	1.50	26.26	27.85	4.31	-

2.4-2.4835GHz_802.11ac_VHT40_Nss1,(MCS0)_1TX

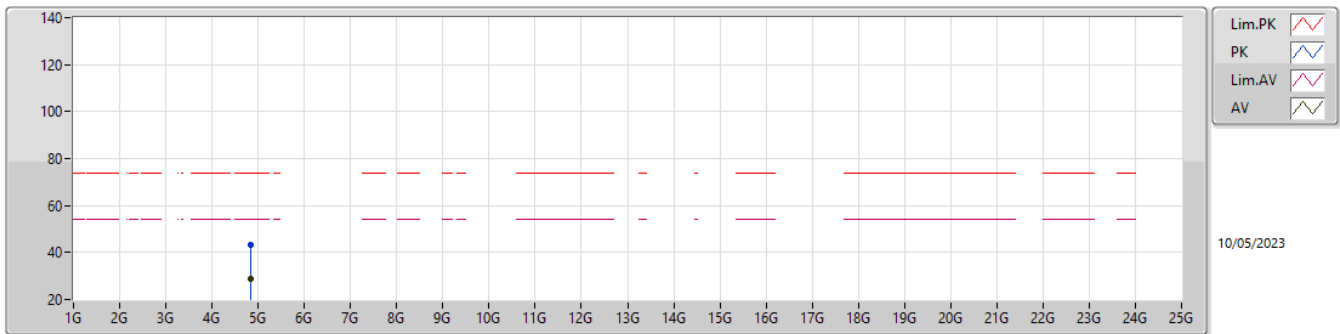
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.84414G	27.81	54.00	-26.19	4.47	3	Vertical	71	2.32	23.34	32.46	6.19	34.18
PK	4.84132G	42.34	74.00	-31.66	4.46	3	Vertical	71	2.32	37.88	32.45	6.19	34.18

2.4-2.4835GHz_802.11ac_VHT40_Nss1,(MCS0)_1TX

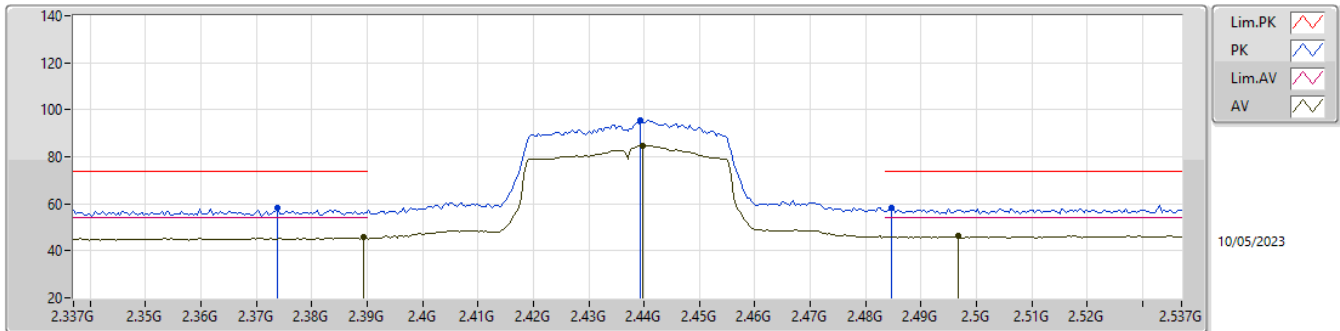
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.84392G	28.69	54.00	-25.31	4.47	3	Horizontal	146	1.00	24.22	32.46	6.19	34.18
PK	4.8455G	43.47	74.00	-30.53	4.48	3	Horizontal	146	1.00	38.99	32.47	6.19	34.18

2.4-2.4835GHz_802.11ac_VHT40_Nss1,(MCS0)_1TX

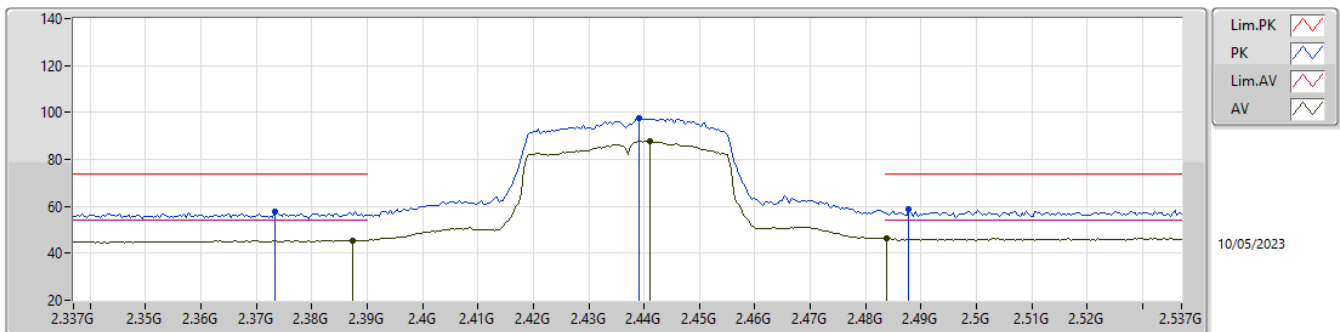
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	45.63	54.00	-8.37	31.77	3	Vertical	231	3.00	13.86	27.52	4.25	-
AV	2.4398G	84.59	Inf	-Inf	31.96	3	Vertical	231	3.00	52.63	27.68	4.28	-
AV	2.4966G	46.24	54.00	-7.76	32.21	3	Vertical	231	3.00	14.03	27.89	4.32	-
PK	2.3738G	58.13	74.00	-15.87	31.63	3	Vertical	231	3.00	26.50	27.39	4.24	-
PK	2.4394G	95.38	Inf	-Inf	31.96	3	Vertical	231	3.00	63.42	27.68	4.28	-
PK	2.4846G	58.08	74.00	-15.92	32.15	3	Vertical	231	3.00	25.93	27.84	4.31	-

2.4-2.4835GHz_802.11ac_VHT40_Nss1,(MCS0)_1TX

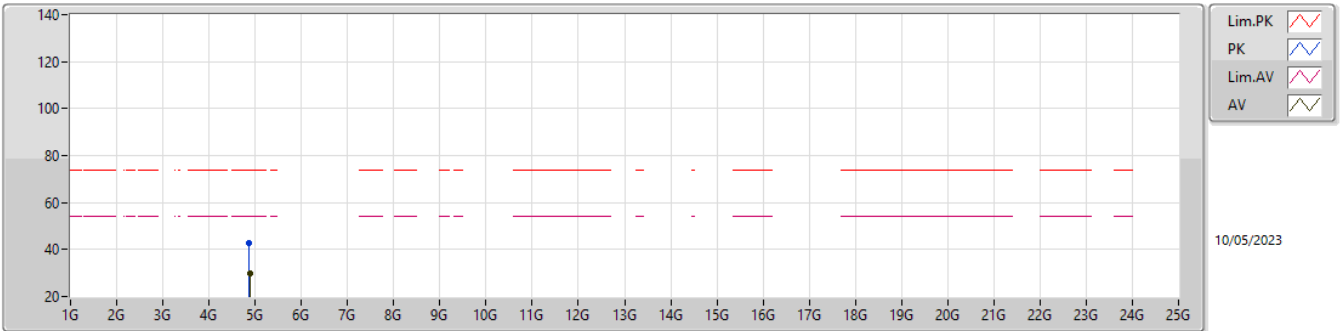
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3874G	45.48	54.00	-8.52	31.75	3	Horizontal	203	2.17	13.73	27.50	4.25	-
AV	2.441G	87.71	Inf	-Inf	31.96	3	Horizontal	203	2.17	55.75	27.68	4.28	-
AV	2.4838G	46.42	54.00	-7.58	32.15	3	Horizontal	203	2.17	14.27	27.84	4.31	-
PK	2.3734G	57.86	74.00	-16.14	31.63	3	Horizontal	203	2.17	26.23	27.39	4.24	-
PK	2.439G	97.75	Inf	-Inf	31.96	3	Horizontal	203	2.17	65.79	27.68	4.28	-
PK	2.4878G	58.65	74.00	-15.35	32.16	3	Horizontal	203	2.17	26.49	27.85	4.31	-

2.4-2.4835GHz_802.11ac_VHT40_Nss1,(MCS0)_1TX

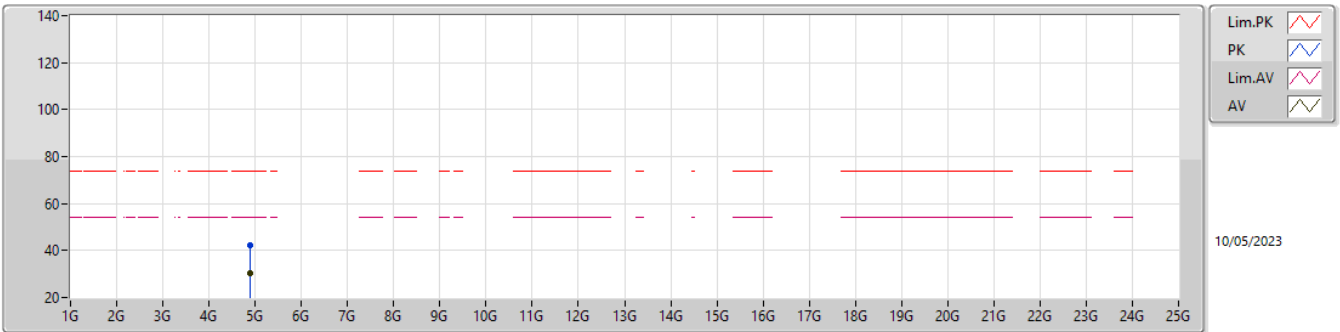
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88152G	29.78	54.00	-24.22	4.69	3	Vertical	158	1.50	25.09	32.63	6.22	34.16
PK	4.86632G	42.97	74.00	-31.03	4.61	3	Vertical	158	1.50	38.36	32.57	6.21	34.17

2.4-2.4835GHz_802.11ac_VHT40_Nss1,(MCS0)_1TX

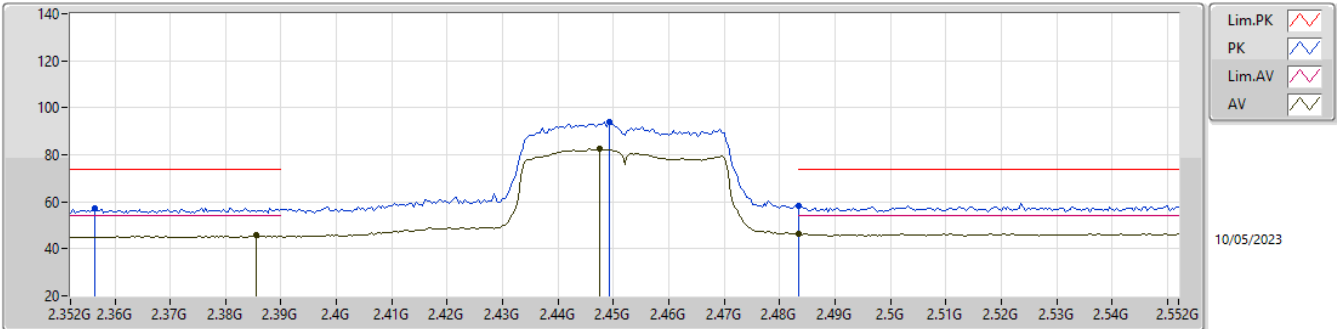
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.89184G	30.14	54.00	-23.86	4.73	3	Horizontal	217	1.50	25.41	32.67	6.22	34.16
PK	4.89264G	42.19	74.00	-31.81	4.73	3	Horizontal	217	1.50	37.46	32.67	6.22	34.16

2.4-2.4835GHz_802.11ac_VHT40_Nss1,(MCS0)_1TX

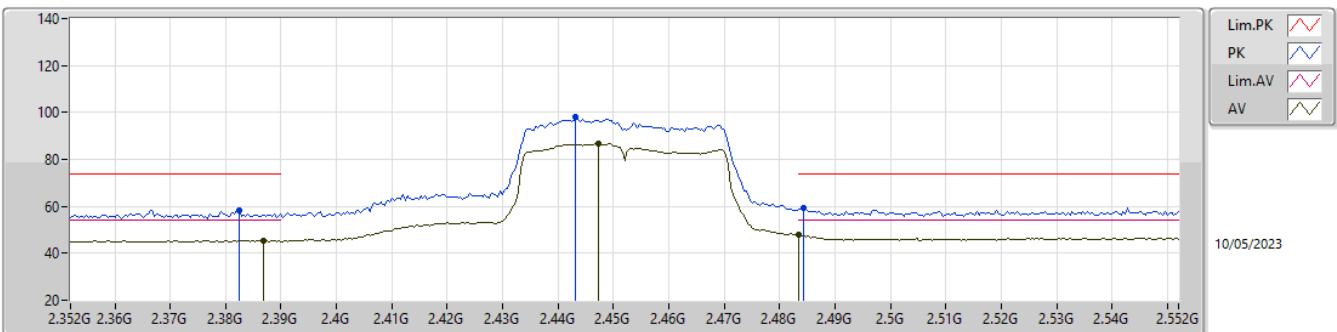
2452MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3856G	45.72	54.00	-8.28	31.73	3	Vertical	213	2.68	13.99	27.48	4.25	-
AV	2.4476G	82.44	Inf	-Inf	31.99	3	Vertical	213	2.68	50.45	27.70	4.29	-
AV	2.4835G	46.35	54.00	-7.65	32.14	3	Vertical	213	2.68	14.21	27.83	4.31	-
PK	2.3564G	57.49	74.00	-16.51	31.47	3	Vertical	213	2.68	26.02	27.25	4.22	-
PK	2.4492G	93.89	Inf	-Inf	31.99	3	Vertical	213	2.68	61.90	27.70	4.29	-
PK	2.4835G	58.13	74.00	-15.87	32.14	3	Vertical	213	2.68	25.99	27.83	4.31	-

2.4-2.4835GHz_802.11ac_VHT40_Nss1,(MCS0)_1TX

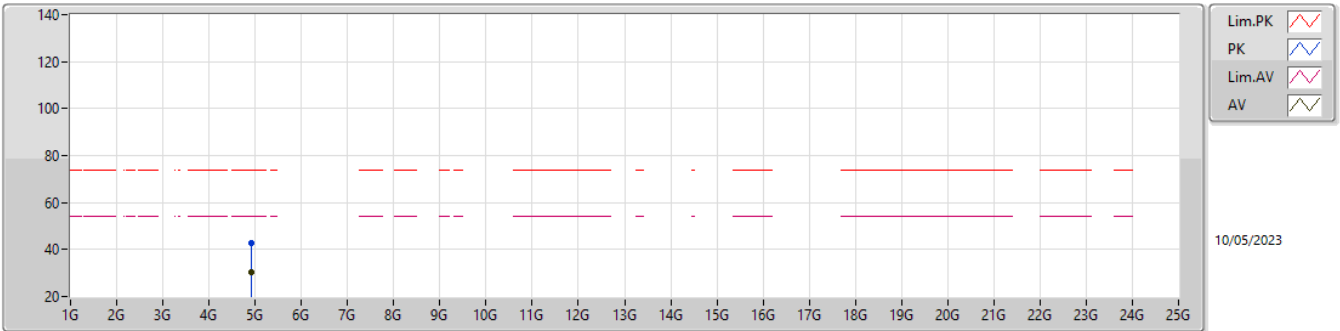
2452MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3868G	45.29	54.00	-8.71	31.74	3	Horizontal	202	1.96	13.55	27.49	4.25	-
AV	2.4472G	86.56	Inf	-Inf	31.98	3	Horizontal	202	1.96	54.58	27.69	4.29	-
AV	2.4835G	47.73	54.00	-6.27	32.14	3	Horizontal	202	1.96	15.59	27.83	4.31	-
PK	2.3824G	58.35	74.00	-15.65	31.71	3	Horizontal	202	1.96	26.64	27.46	4.25	-
PK	2.4432G	97.93	Inf	-Inf	31.98	3	Horizontal	202	1.96	65.95	27.69	4.29	-
PK	2.4844G	59.54	74.00	-14.46	32.15	3	Horizontal	202	1.96	27.39	27.84	4.31	-

2.4-2.4835GHz_802.11ac_VHT40_Nss1,(MCS0)_1TX

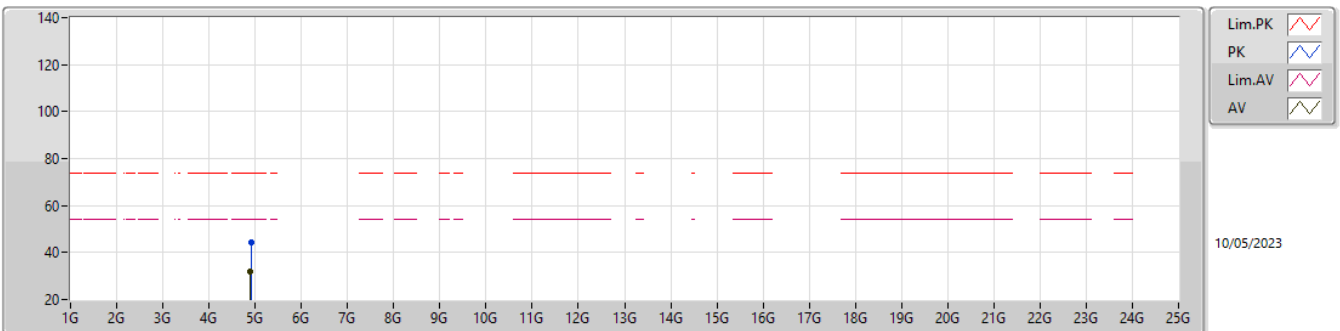
2452MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9216G	30.31	54.00	-23.69	4.93	3	Vertical	288	1.50	25.38	32.83	6.25	34.15
PK	4.90776G	42.78	74.00	-31.22	4.84	3	Vertical	288	1.50	37.94	32.75	6.24	34.15

2.4-2.4835GHz_802.11ac_VHT40_Nss1,(MCS0)_1TX

2452MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.90136G	31.72	54.00	-22.28	4.78	3	Horizontal	91	2.81	26.94	32.71	6.23	34.16
PK	4.90656G	44.19	74.00	-29.81	4.82	3	Horizontal	91	2.81	39.37	32.74	6.23	34.15



Summary

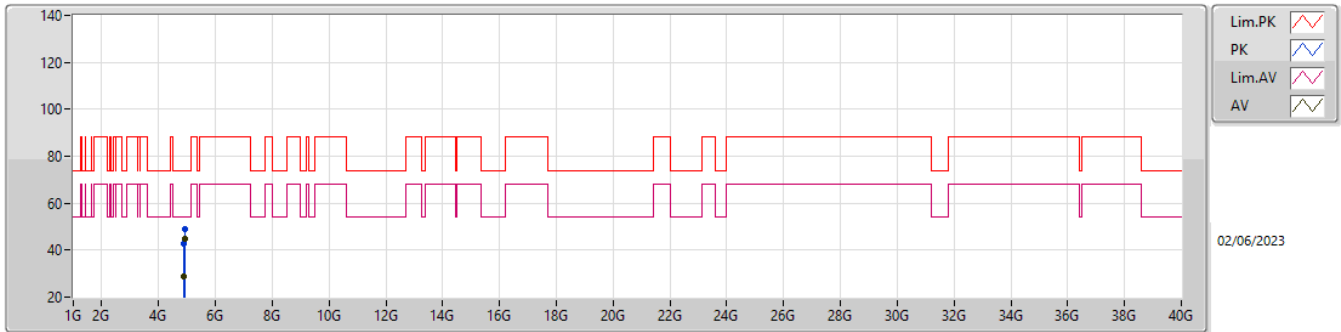
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.92391G	44.72	54.00	-9.28	Vertical
Mode 2	Pass	AV	4.88017G	30.94	54.00	-23.06	Horizontal



Result

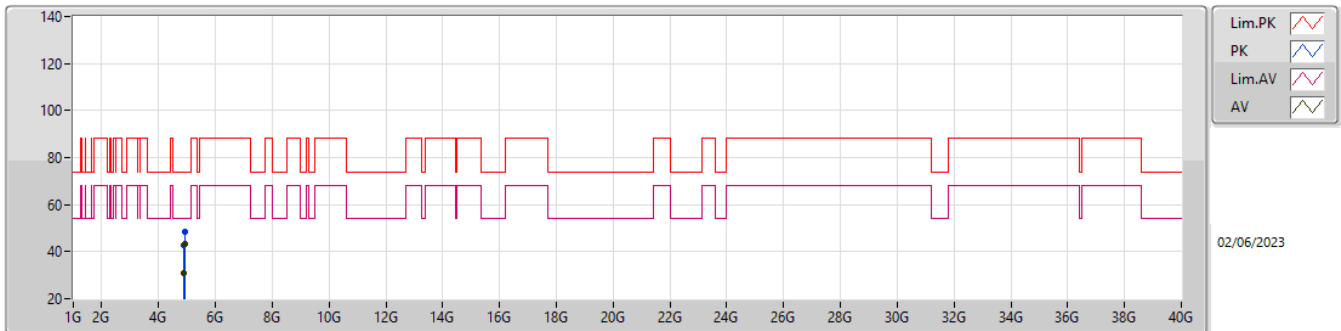
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	4.87991G	28.93	54.00	-25.07	4.68	3	Vertical	0	1.00
Mode 1	Pass	AV	4.92391G	44.72	54.00	-9.28	4.94	3	Vertical	0	1.00
Mode 1	Pass	PK	4.87985G	42.52	74.00	-31.48	4.68	3	Vertical	0	1.00
Mode 1	Pass	PK	4.92387G	49.09	74.00	-24.91	4.94	3	Vertical	0	1.00
Mode 1	Pass	AV	4.92381G	43.13	54.00	-10.87	4.94	3	Horizontal	360	1.00
Mode 1	Pass	AV	4.88021G	30.86	54.00	-23.14	4.68	3	Horizontal	360	1.00
Mode 1	Pass	PK	4.92393G	48.22	74.00	-25.78	4.94	3	Horizontal	360	1.00
Mode 1	Pass	PK	4.87951G	42.97	74.00	-31.03	4.68	3	Horizontal	360	1.00
Mode 2	Pass	AV	4.87984G	28.99	54.00	-25.01	4.68	3	Vertical	0	1.00
Mode 2	Pass	AV	10.39819G	37.22	68.20	-30.98	15.33	3	Vertical	0	1.00
Mode 2	Pass	PK	4.87967G	42.62	74.00	-31.38	4.68	3	Vertical	0	1.00
Mode 2	Pass	PK	10.39628G	51.43	88.20	-36.77	15.33	3	Vertical	0	1.00
Mode 2	Pass	AV	4.88017G	30.94	54.00	-23.06	4.68	3	Horizontal	360	1.00
Mode 2	Pass	AV	10.40129G	37.15	68.20	-31.05	15.34	3	Horizontal	360	1.00
Mode 2	Pass	PK	4.87938G	42.87	74.00	-31.13	4.68	3	Horizontal	360	1.00
Mode 2	Pass	PK	10.4152G	52.07	88.20	-36.13	15.35	3	Horizontal	360	1.00

Radiated Emissions above 1GHz_Mode 1



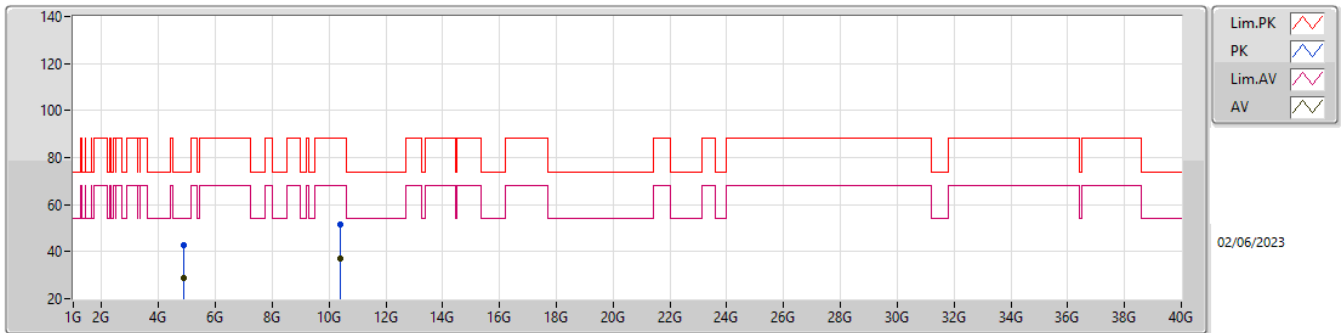
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.87991G	28.93	54.00	-25.07	4.68	3	Vertical	0	1.00	-	24.25	32.62	6.22	34.16
AV	4.92391G	44.72	54.00	-9.28	4.94	3	Vertical	0	1.00	-	39.78	32.84	6.25	34.15
PK	4.87985G	42.52	74.00	-31.48	4.68	3	Vertical	0	1.00	-	37.84	32.62	6.22	34.16
PK	4.92387G	49.09	74.00	-24.91	4.94	3	Vertical	0	1.00	-	44.15	32.84	6.25	34.15

Radiated Emissions above 1GHz_Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.92381G	43.13	54.00	-10.87	4.94	3	Horizontal	360	1.00	-	38.19	32.84	6.25	34.15
AV	4.88021G	30.86	54.00	-23.14	4.68	3	Horizontal	360	1.00	-	26.18	32.62	6.22	34.16
PK	4.92393G	48.22	74.00	-25.78	4.94	3	Horizontal	360	1.00	-	43.28	32.84	6.25	34.15
PK	4.87951G	42.97	74.00	-31.03	4.68	3	Horizontal	360	1.00	-	38.29	32.62	6.22	34.16

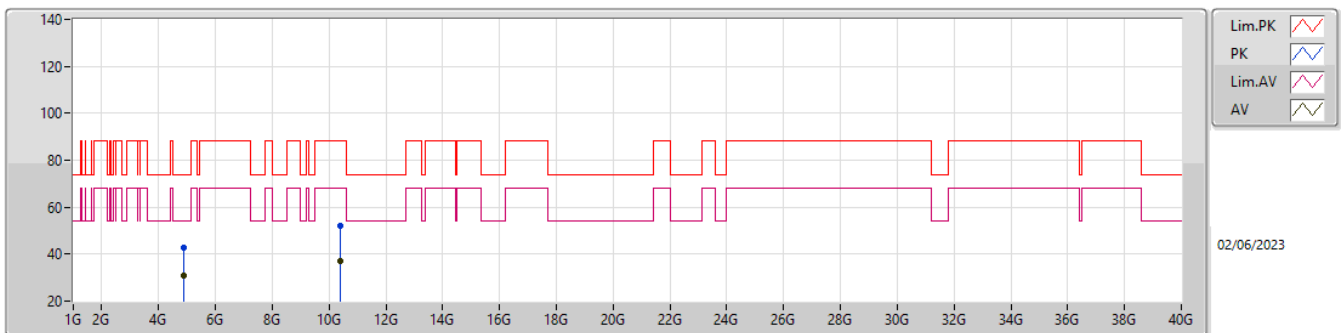
Radiated Emissions above 1GHz_Mode 2



02/06/2023

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.87984G	28.99	54.00	-25.01	4.68	3	Vertical	0	1.00	-	24.31	32.62	6.22	34.16
AV	10.39819G	37.22	68.20	-30.98	15.33	3	Vertical	0	1.00	-	21.89	38.90	11.03	34.60
PK	4.87967G	42.62	74.00	-31.38	4.68	3	Vertical	0	1.00	-	37.94	32.62	6.22	34.16
PK	10.39628G	51.43	88.20	-36.77	15.33	3	Vertical	0	1.00	-	36.10	38.90	11.03	34.60

Radiated Emissions above 1GHz_Mode 2



02/06/2023

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.88017G	30.94	54.00	-23.06	4.68	3	Horizontal	360	1.00	-	26.26	32.62	6.22	34.16
AV	10.40129G	37.15	68.20	-31.05	15.34	3	Horizontal	360	1.00	-	21.81	38.90	11.03	34.59
PK	4.87938G	42.87	74.00	-31.13	4.68	3	Horizontal	360	1.00	-	38.19	32.62	6.22	34.16
PK	10.4152G	52.07	88.20	-36.13	15.35	3	Horizontal	360	1.00	-	36.72	38.90	11.03	34.58