

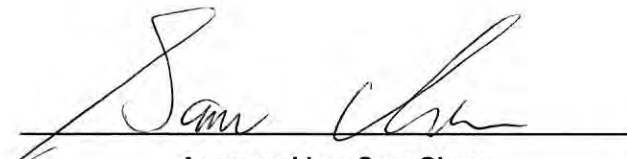


RADIO TEST REPORT

FCC ID : RIWZAT600B
Equipment : ATSC 3.0 STB
Brand Name : ZINWELL
Model Name : ZAT-600B
Applicant : ZINWELL CORPORATION
No. 2 Wen-Hua Road, Hsinchu Industrial Park, Hsinchu, Taiwan
Manufacturer : ZINWELL CORPORATION
No. 2 Wen-Hua Road, Hsinchu Industrial Park, Hsinchu, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 27, 2023, and testing was started from Aug. 16, 2023 and completed on Aug. 22, 2023. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Sam Chen

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



Table of Contents

History of this test report.....3

Summary of Test Result.....4

1 General Description5

1.1 Information.....5

1.2 Applicable Standards7

1.3 Testing Location Information7

1.4 Measurement Uncertainty8

2 Test Configuration of EUT9

2.1 Test Channel Mode9

2.2 The Worst Case Measurement Configuration10

2.3 EUT Operation during Test11

2.4 Accessories11

2.5 Support Equipment.....11

2.6 Test Setup Diagram13

3 Transmitter Test Result16

3.1 AC Power-line Conducted Emissions16

3.2 DTS Bandwidth.....18

3.3 Maximum Conducted Output Power19

3.4 Power Spectral Density22

3.5 Emissions in Non-restricted Frequency Bands24

3.6 Emissions in Restricted Frequency Bands.....25

4 Test Equipment and Calibration Data29

Appendix A. Test Results of AC Power-line Conducted Emissions

Appendix B. Test Results of DTS Bandwidth

Appendix C. Test Results of Maximum Conducted Output Power

Appendix D. Test Results of Power Spectral Density

Appendix E. Test Results of Emissions in Non-restricted Frequency Bands

Appendix F. Test Results of Emissions in Restricted Frequency Bands

Appendix G. Test Photos

Photographs of EUT v01



History of this test report

Report No.	Version	Description	Issued Date
FR372002AA	01	Initial issue of report	Sep. 05, 2023
FR372002AA	02	Changing the brand name of antenna to "INPAQ" from "PSA" in section 1.1.2.	Sep. 15, 2023



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen
Report Producer: Cathy Chiu



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40)	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

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.
- ♦ BWch is the nominal channel bandwidth.



1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)		
						2.4GHz	5GHz UNII 1	5GHz UNII 3
1	1	INPAQ	ZAT-600B	PCB Antenna	I-PEX	4.02	5.33	3.73

Note: The above information was declared by manufacturer.

<For 2.4GHz Band>

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

Only Port 1 can be used as transmitting/receiving antenna.

<For 5GHz Band UNII 1, UNII 3>

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

Only Port 1 can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.995	0.02	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.952	0.21	2.067m	1k
802.11n HT20	0.953	0.21	1.924m	1k
802.11n HT40	0.909	0.41	947.812u	3k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	<input type="checkbox"/> With beamforming	<input checked="" type="checkbox"/>	Without beamforming	
Function	<input checked="" type="checkbox"/> Point-to-multipoint	<input type="checkbox"/>	Point-to-point	
Test Software Version	platfrom-tools_r34.0.3			

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

- ◆ 47 CFR FCC Part 15.247
- ◆ ANSI C63.10-2013

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

- ◆ FCC KDB 558074 D01 v05r02
- ◆ FCC KDB 662911 D01 v02r01
- ◆ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Eason Chen	24.2~25.1 / 62~71	Aug. 22, 2023
Radiated Below 1GHz	03CH01-CB	Chris Li	20~21 / 55-58	Aug. 16, 2023
Radiated Above 1GHz	03CH02-CB	Black Lu	22.6~23.2 / 59~63	Aug. 17, 2023~ Aug. 21, 2023
AC Conduction	CO01-CB	Gray Lee	23~24 / 53~54	Aug. 21, 2023



1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	56
2437MHz	62
2462MHz	55
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	53
2417MHz	62
2437MHz	63
2457MHz	59
2462MHz	52
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	51
2417MHz	62
2437MHz	63
2457MHz	59
2462MHz	50
802.11n HT40_Nss1,(MCS0)_1TX	-
2422MHz	50
2437MHz	53
2452MHz	47



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT with WLAN 2.4GHz + Coaxial port-Video + USB port-load + Adapter
2	EUT with WLAN 5GHz + Coaxial port-Video + USB port-load + Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT with WLAN 2.4GHz + Coaxial port-load + USB port-Video + Adapter
For operating mode 1 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	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	Normal Link After evaluating, the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.
1	EUT in Z axis with WLAN 2.4GHz + Coaxial port-Video + USB port-load + Adapter
2	EUT in Z axis with WLAN 5GHz + Coaxial port-Video + USB port-load + Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in Z axis with WLAN 2.4GHz + Coaxial port-load + USB port-Video + Adapter
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
1	EUT in Z axis



2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	APD	WB-18Q12FU1	INPUT: 100-240V~,50-60Hz,0.6AMax OUTPUT: 12V, 1.5A
Other			
Remote controller*1			

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Flash disk3.0	Transcend	JetFlash-700	N/A
B	Remote controller	GSD	RCR69X34B034C	N/A
C	LCD Monitor	PHILIPS	288E2A/96	N/A
D	LAN NB	DELL	T3400	N/A
E	AP Router	ASUS	RT-AX88U	MSQ-RTAXHP00
F	Terminal system	ZINWELL	ZMA-9303	N/A
G	DVD Player	Pioneer	DV-600AV-S	N/A



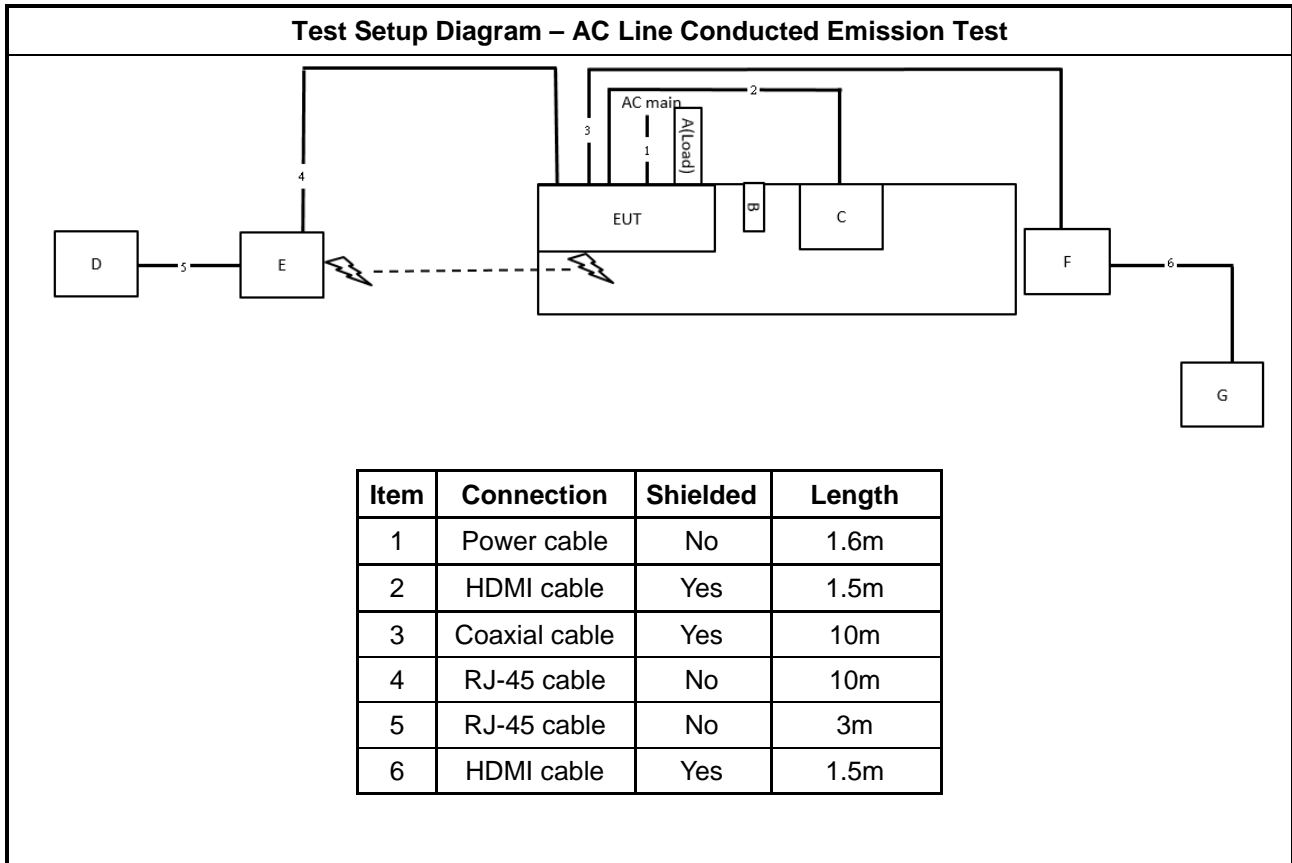
For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	WLAN AP	NETGEAR	N600	N/A
B	LAN NB	DELL	E4300	N/A
C	LCD Monitor	PHILIPS	288E2A/96	N/A
D	AP Router	ASUS	RT-AX88U	MSQ-RTAXHP00
E	WLAN 2.4G NB	DELL	E4300	N/A
F	Terminal System	ZINWELL	ZMA-9303	N/A
G	Blu-ray Disc Player	Panasonic	DP-UB320GTK	N/A
H	Flash disk3.0	Transcend	JetFlash-700	N/A
I	Remote controller	GSD	RCR69X34B034C	N/A

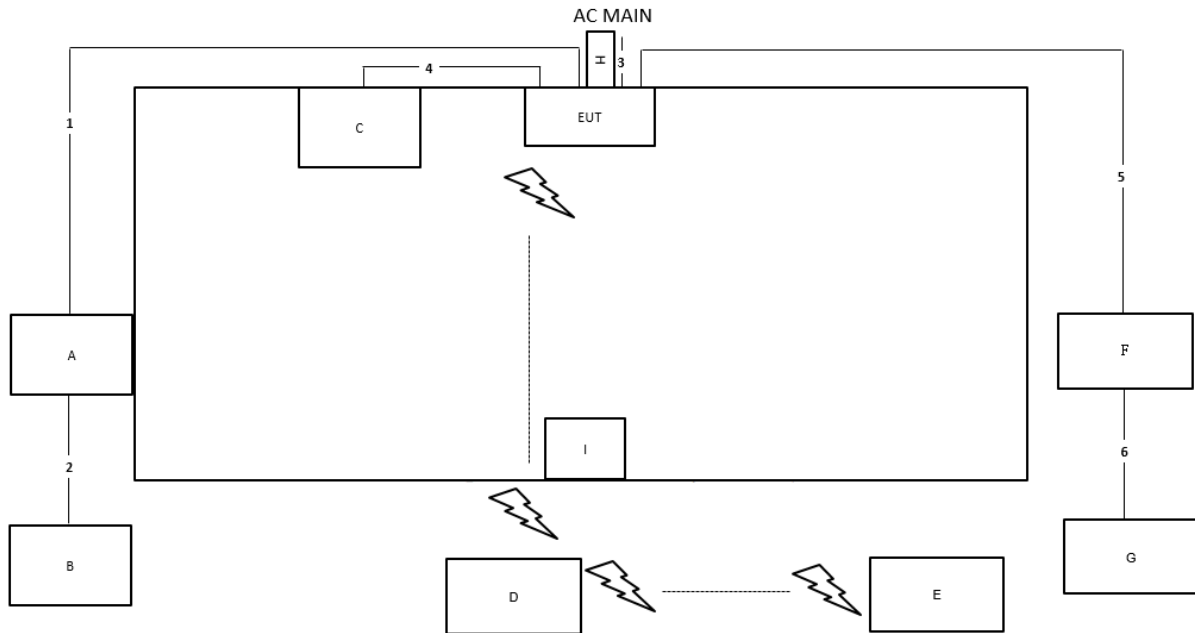
For Radiated (above 1GHz) and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

2.6 Test Setup Diagram

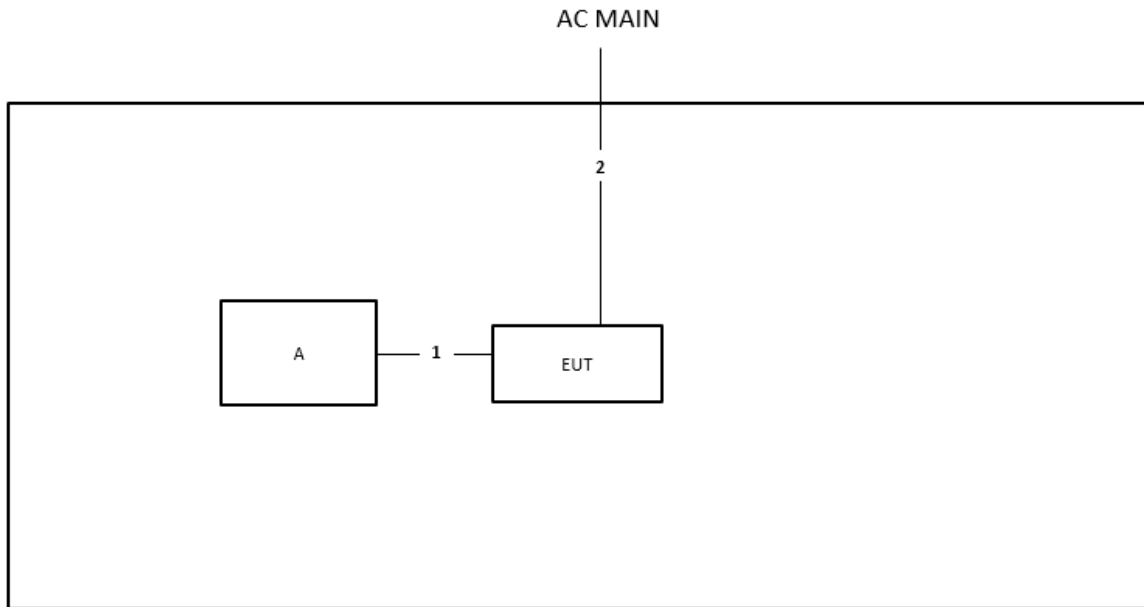


Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Power cable	No	1.6m
4	HDMI cable	Yes	1.5m
5	Coaxial cable	Yes	10m
6	HDMI cable	Yes	1.5m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	1.5m
2	Power cable	No	1.6m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

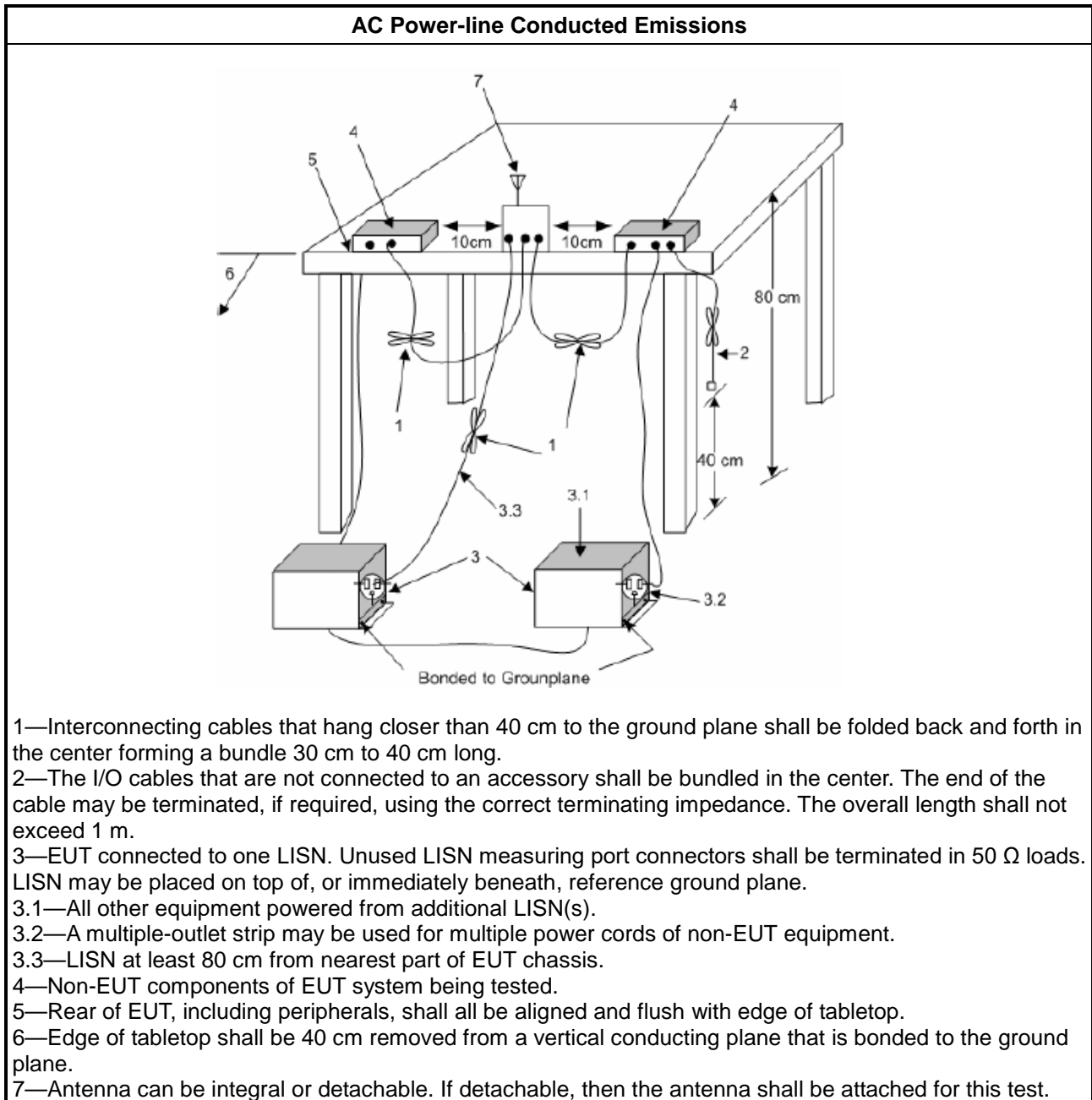
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

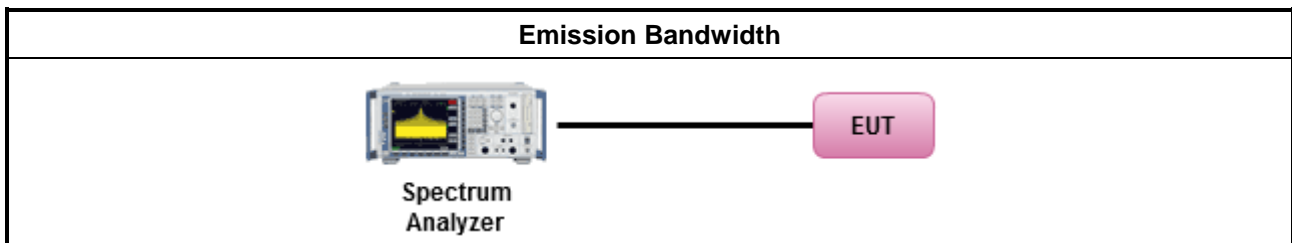
3.2.2 Measuring Instruments

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"> ▪ For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none">▪ 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
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

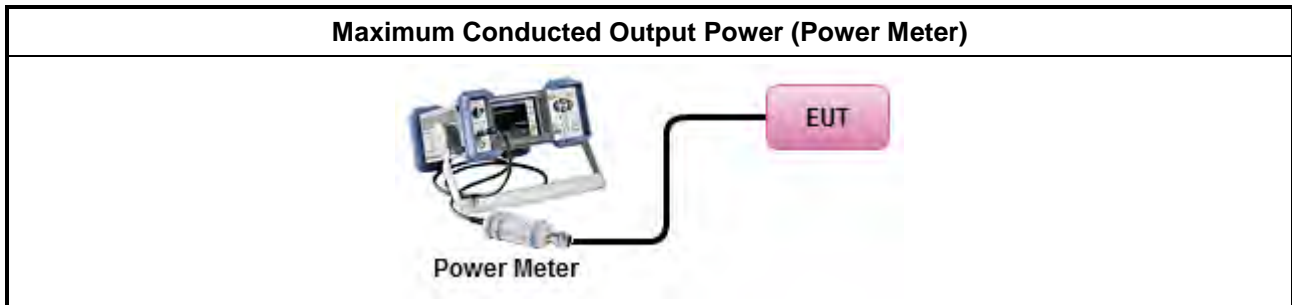
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power 	
[duty cycle ≥ 98% or external video / power trigger]	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average 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 FCC 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]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

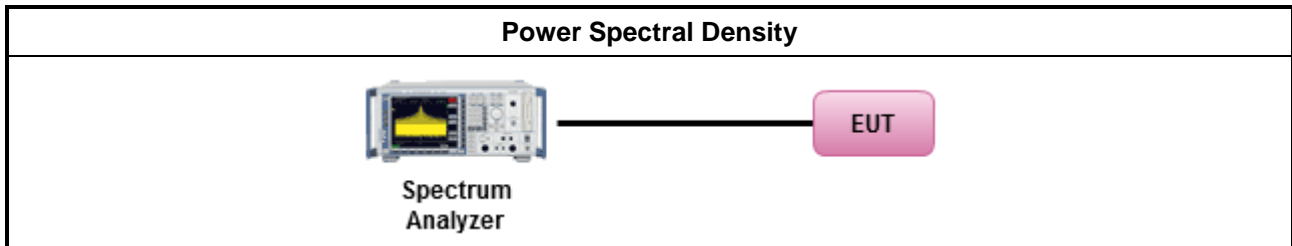
3.4.2 Measuring Instruments

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"> 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 FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method 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"> <input type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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. <input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, <input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
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 PSD 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 PSD level.

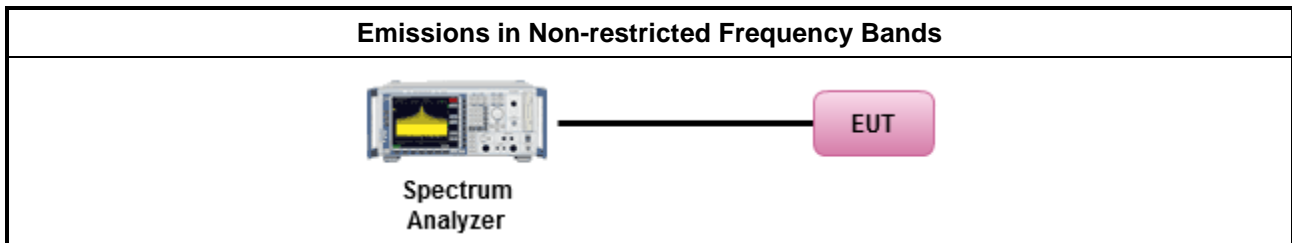
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



3.6 Emissions in Restricted Frequency Bands

3.6.1 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.

3.6.2 Measuring Instruments

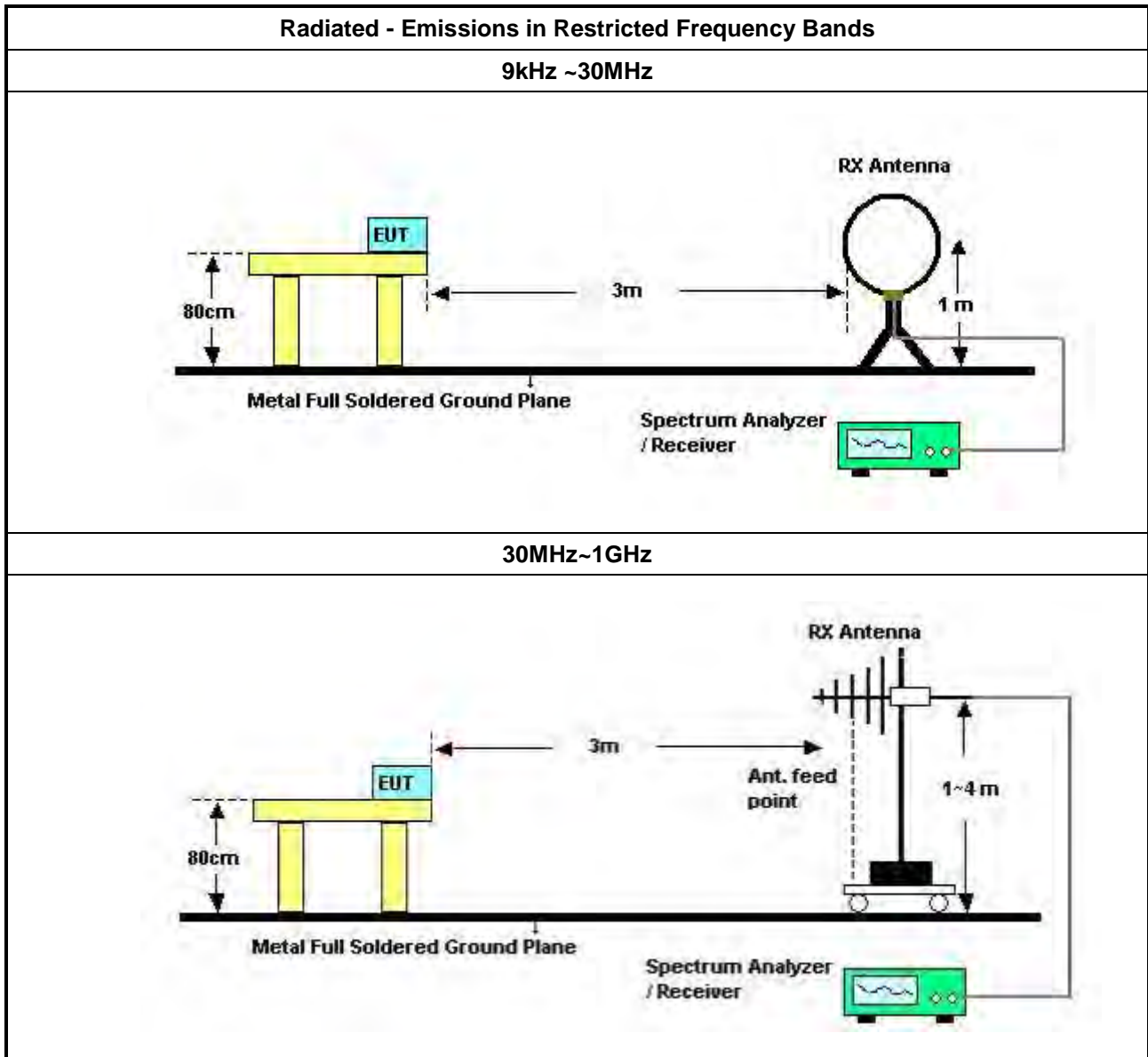
Refer a test equipment and calibration data table in this test report.

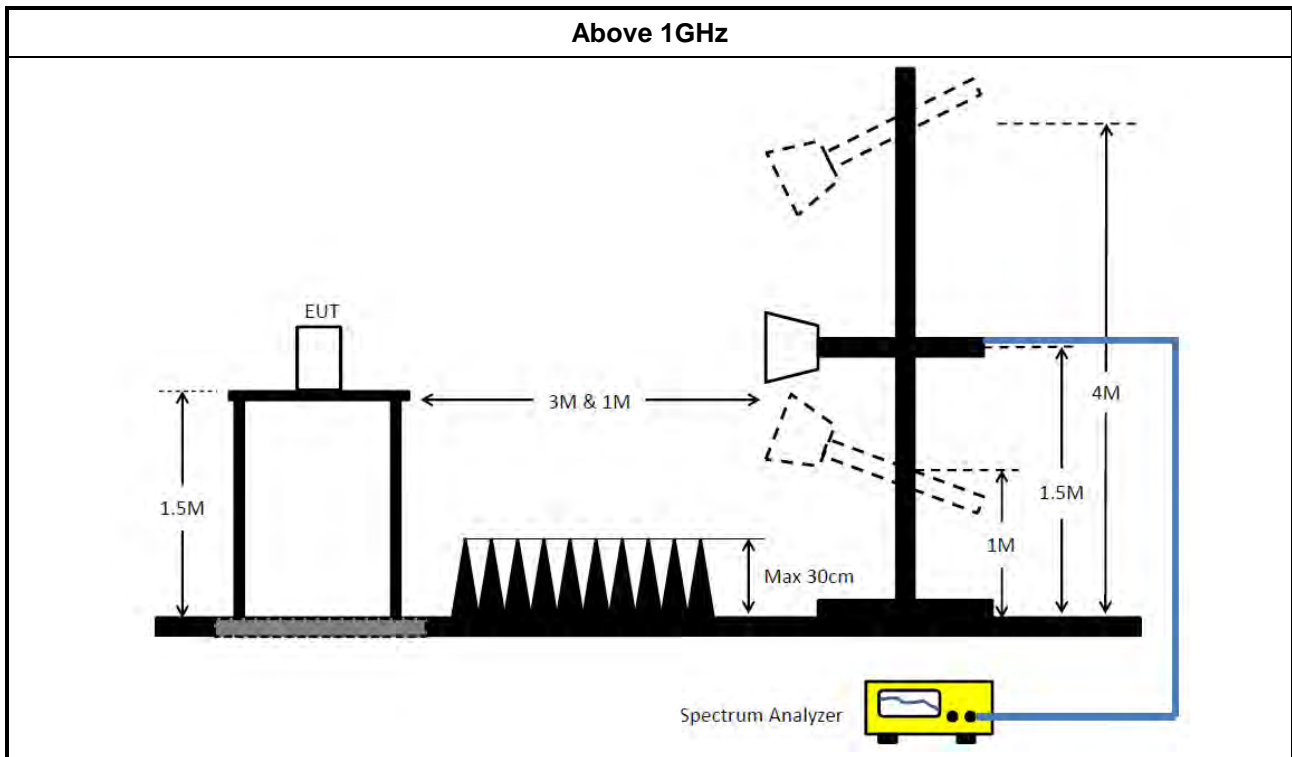


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ 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 FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle \geq 98%).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW \geq 1/T).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<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 FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, 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 FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	<ul style="list-style-type: none"> ▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	<ul style="list-style-type: none"> ▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 20, 2023	Feb. 19, 2024	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-5 0-16-2	04083	150kHz ~ 100MHz	Feb. 16, 2023	Feb. 15, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 27, 2023	Apr. 26, 2024	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 23, 2023	Mar. 22, 2024	Radiation (03CH01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH01-CB	30 MHz ~ 1 GHz	Jan. 16, 2023	Jan. 15, 2024	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Feb. 19, 2023	Feb. 18, 2024	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH0301	20230109-2	10M~1GHz	Jun. 23, 2023	Jun. 22, 2024	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 29, 2022	Nov. 29, 2023	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-16+17	30 MHz ~ 1 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 25, 2023	Mar. 24, 2024	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Dec. 05, 2022	Dec. 04, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 29, 2023	May 28, 2024	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz ~26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

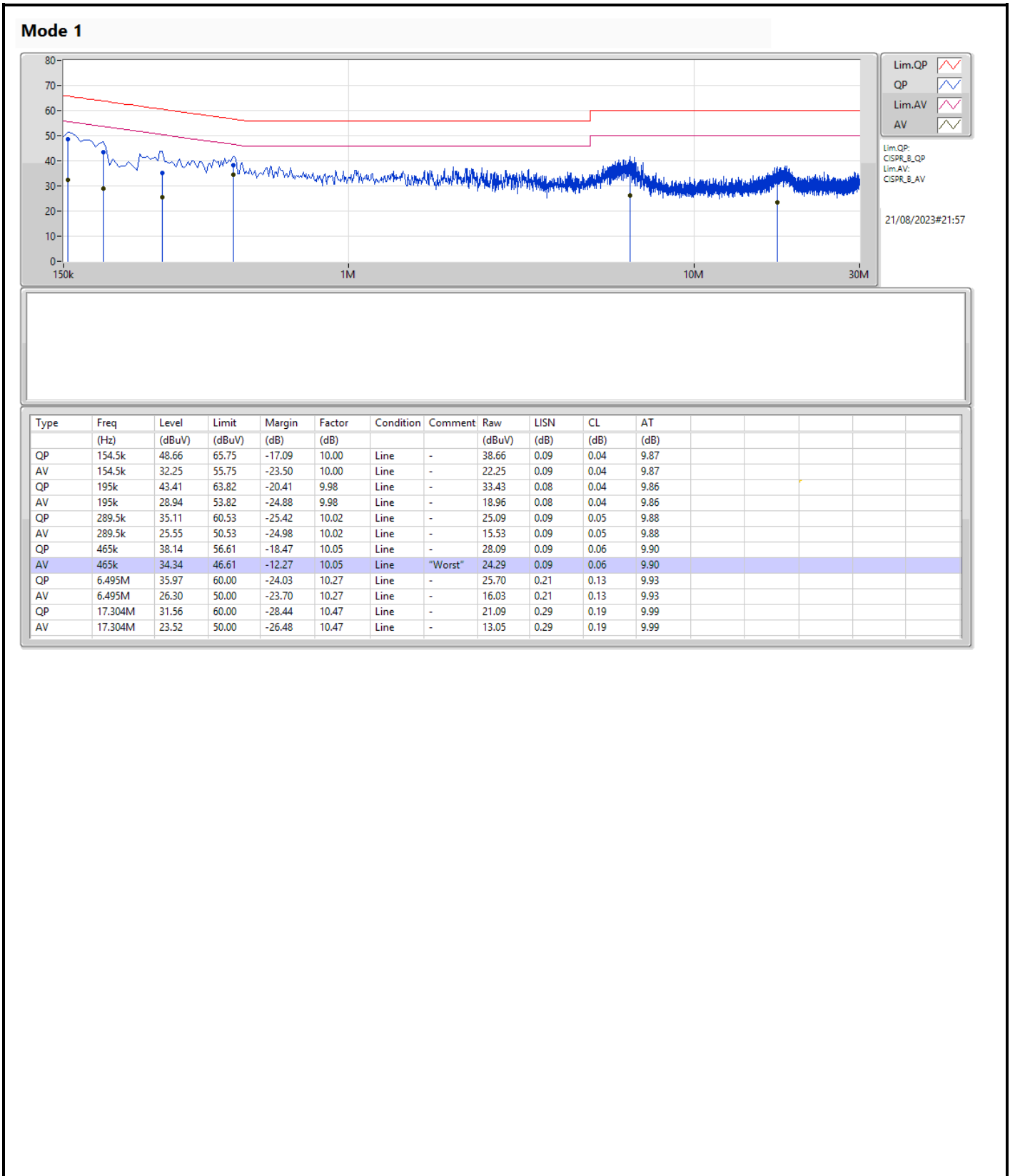
Note: Calibration Interval of instruments listed above is one year.

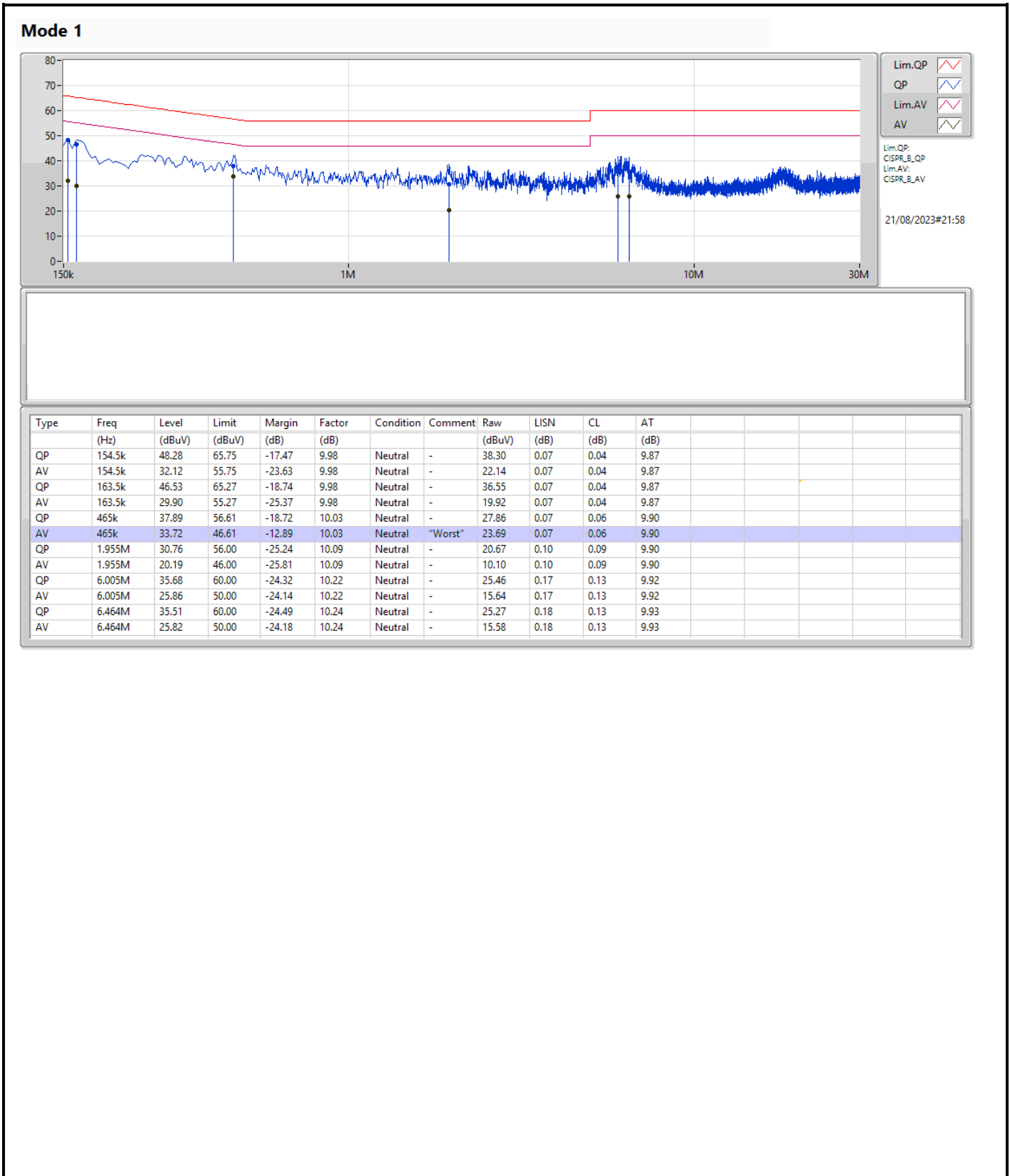
NCR means Non-Calibration required.



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	465k	34.34	46.61	-12.27	Line







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	10.075M	16.628M	16M6G1D	10.05M	15.597M
802.11g_Nss1,(6Mbps)_1TX	16.325M	19.981M	20M0D1D	16.3M	16.725M
802.11n HT20_Nss1,(MCS0)_1TX	17.55M	21.922M	21M9D1D	17.125M	17.81M
802.11n HT40_Nss1,(MCS0)_1TX	36.05M	36.78M	36M8D1D	35.45M	36.487M

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	10.075M	15.599M
2437MHz	Pass	500k	10.075M	16.628M
2462MHz	Pass	500k	10.05M	15.597M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.325M	16.725M
2437MHz	Pass	500k	16.3M	19.981M
2462MHz	Pass	500k	16.325M	16.789M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.55M	17.819M
2437MHz	Pass	500k	17.125M	21.922M
2462MHz	Pass	500k	17.125M	17.81M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	36.05M	36.583M
2437MHz	Pass	500k	35.65M	36.78M
2452MHz	Pass	500k	35.45M	36.487M

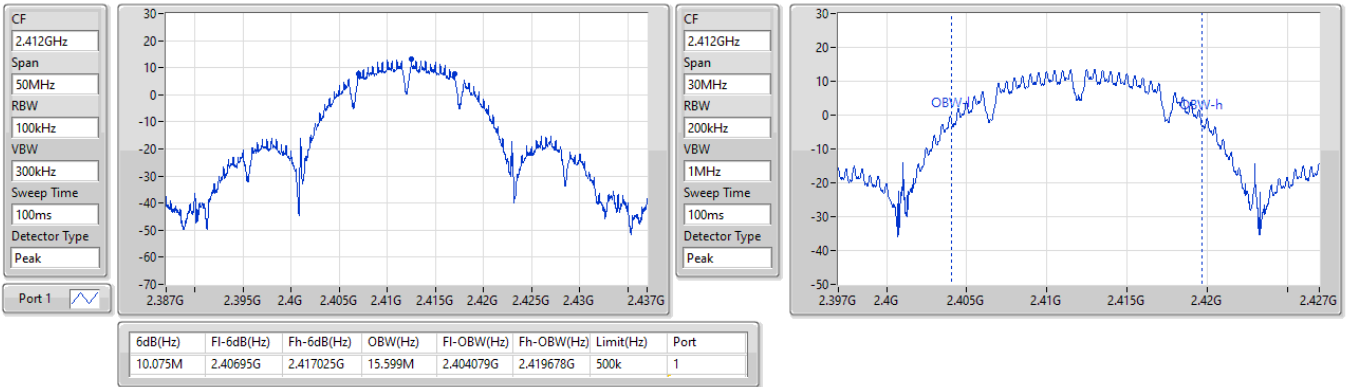
Port X-N dB = Port X 6dB down bandwidth;
 Port X-OBW = Port X 99% occupied bandwidth

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

EBW

2412MHz

22/08/2023

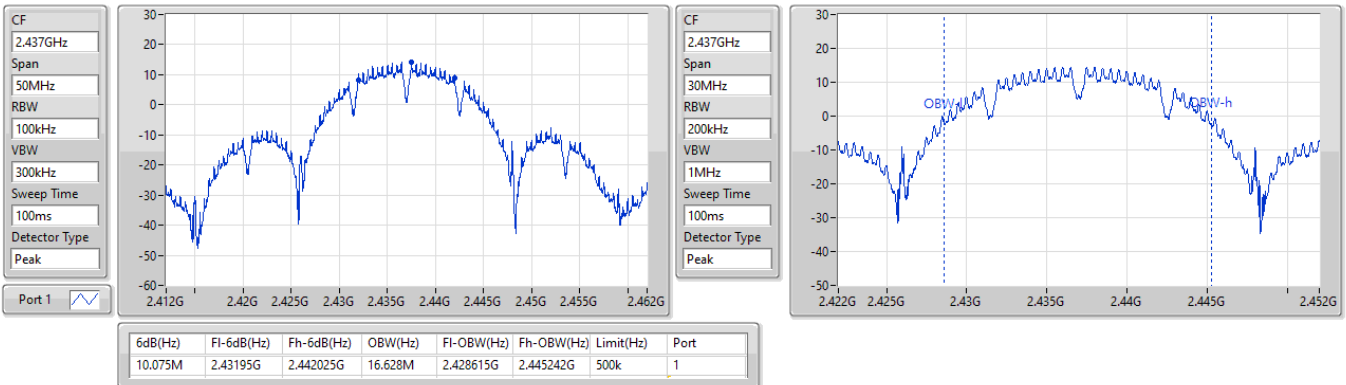


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2437MHz

22/08/2023



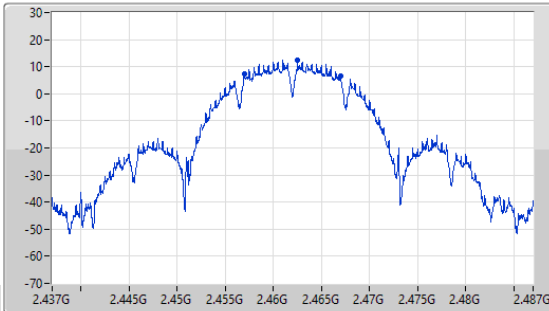
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

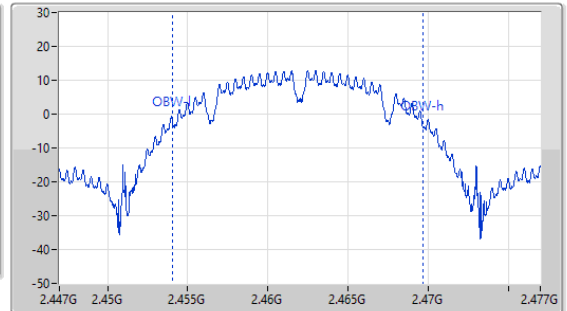
2462MHz

22/08/2023

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
10.05M	2.456975G	2.467025G	15.597M	2.454068G	2.469665G	500k	1

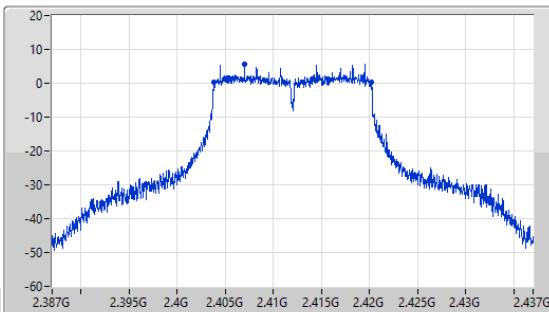
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

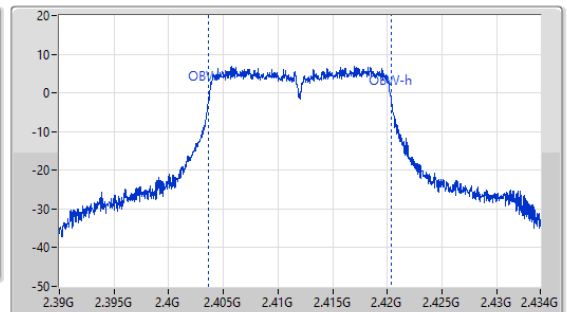
2412MHz

22/08/2023

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



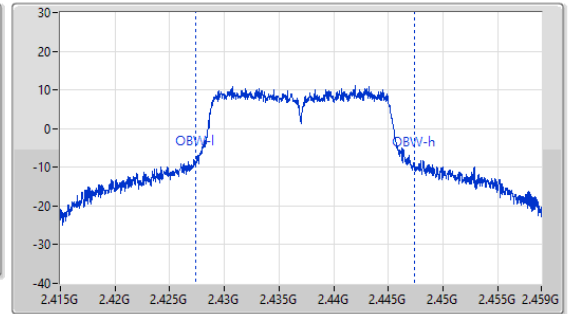
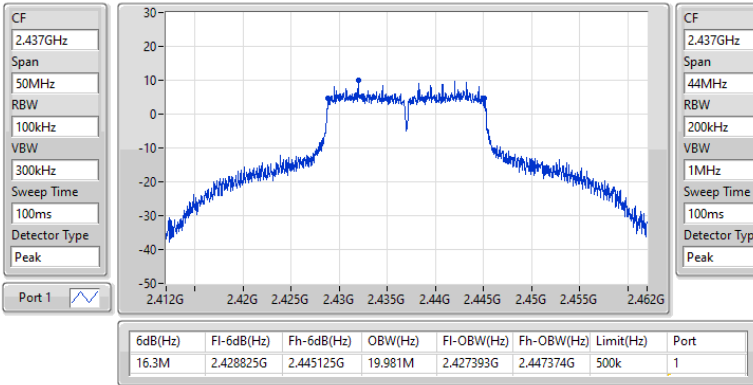
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.403825G	2.42015G	16.725M	2.403664G	2.420388G	500k	1

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

EBW

2437MHz

22/08/2023

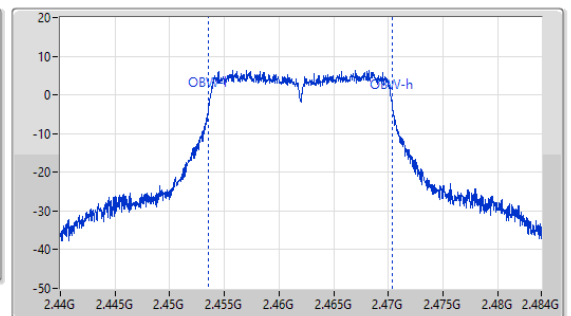
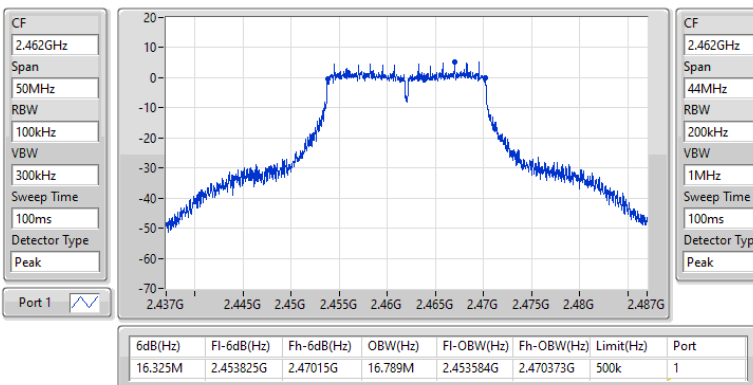


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

2462MHz

22/08/2023

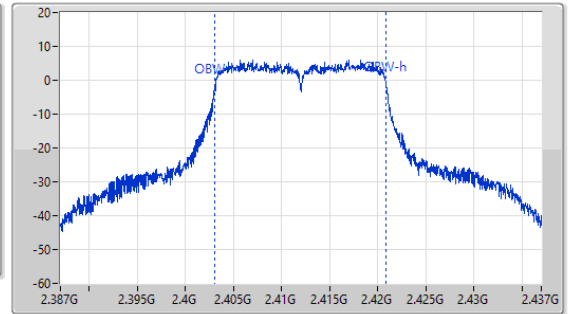
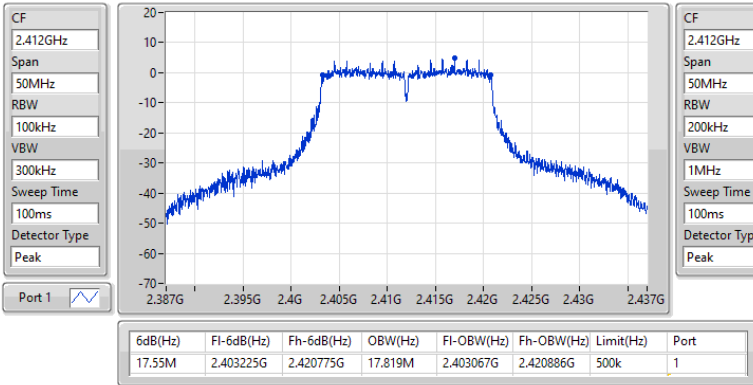


2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

EBW

2412MHz

22/08/2023

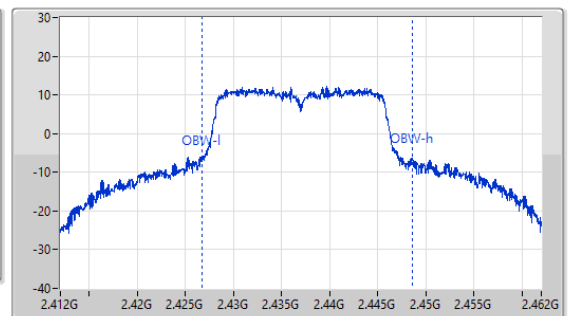
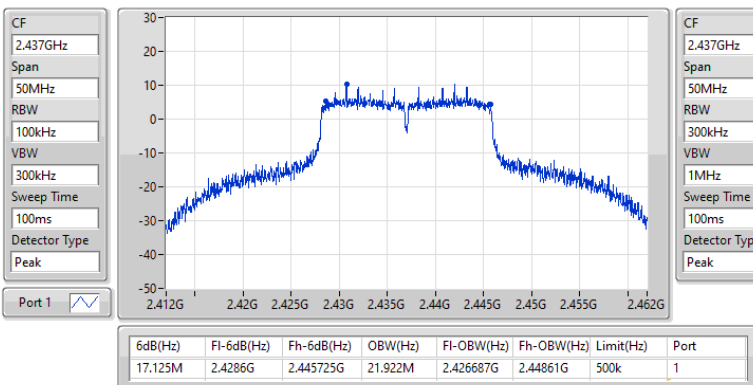


2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

EBW

2437MHz

22/08/2023

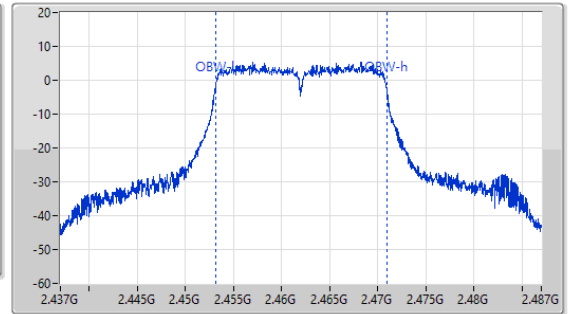
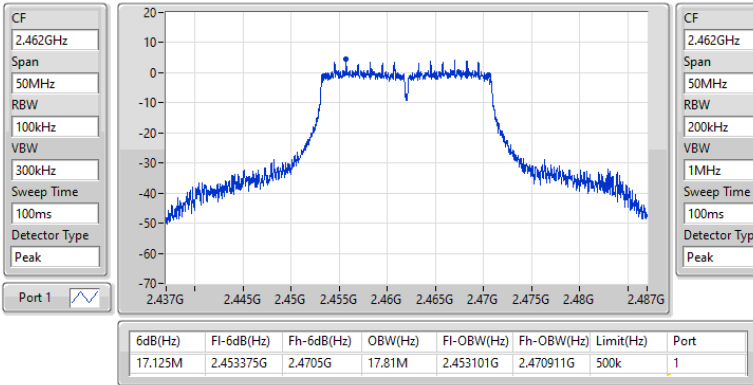


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

EBW

2462MHz

22/08/2023

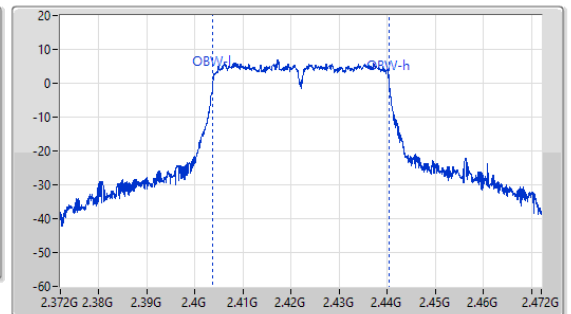
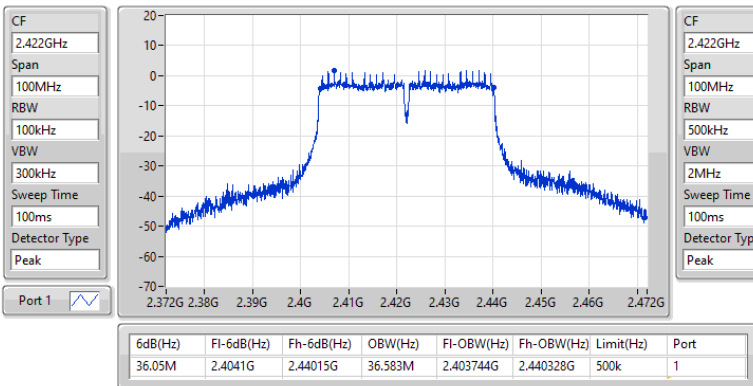


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

EBW

2422MHz

22/08/2023

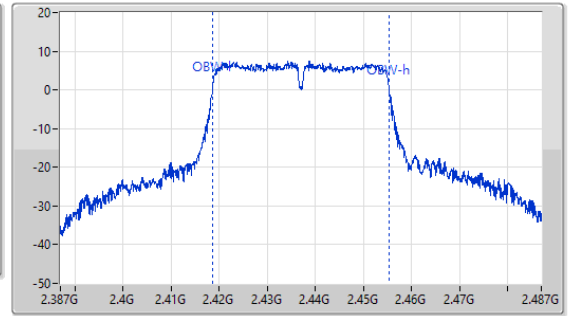
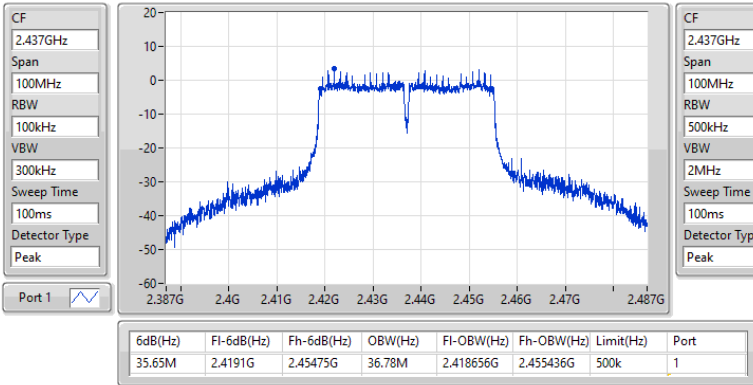


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

EBW

2437MHz

22/08/2023

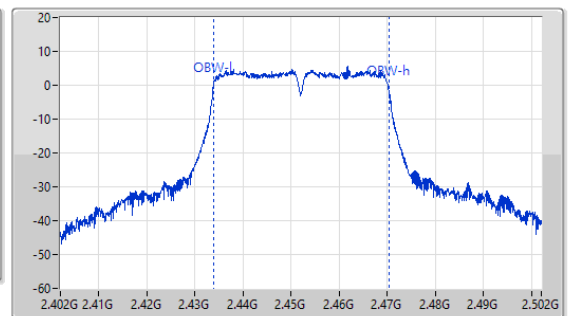
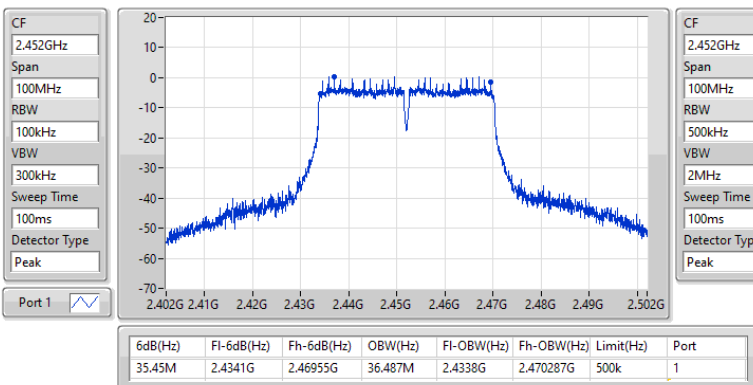


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

EBW

2452MHz

22/08/2023





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	23.96	0.24889
802.11g_Nss1,(6Mbps)_1TX	20.81	0.12050
802.11n HT20_Nss1,(MCS0)_1TX	20.86	0.12190
802.11n HT40_Nss1,(MCS0)_1TX	17.29	0.05358



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.02	22.73	22.73	30.00
2437MHz	Pass	4.02	23.96	23.96	30.00
2462MHz	Pass	4.02	22.07	22.07	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.02	17.12	17.12	30.00
2417MHz	Pass	4.02	20.59	20.59	30.00
2437MHz	Pass	4.02	20.81	20.81	30.00
2457MHz	Pass	4.02	19.48	19.48	30.00
2462MHz	Pass	4.02	16.57	16.57	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	4.02	16.23	16.23	30.00
2417MHz	Pass	4.02	20.61	20.61	30.00
2437MHz	Pass	4.02	20.86	20.86	30.00
2457MHz	Pass	4.02	19.47	19.47	30.00
2462MHz	Pass	4.02	15.69	15.69	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	4.02	15.95	15.95	30.00
2437MHz	Pass	4.02	17.29	17.29	30.00
2452MHz	Pass	4.02	14.54	14.54	30.00

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



Summary

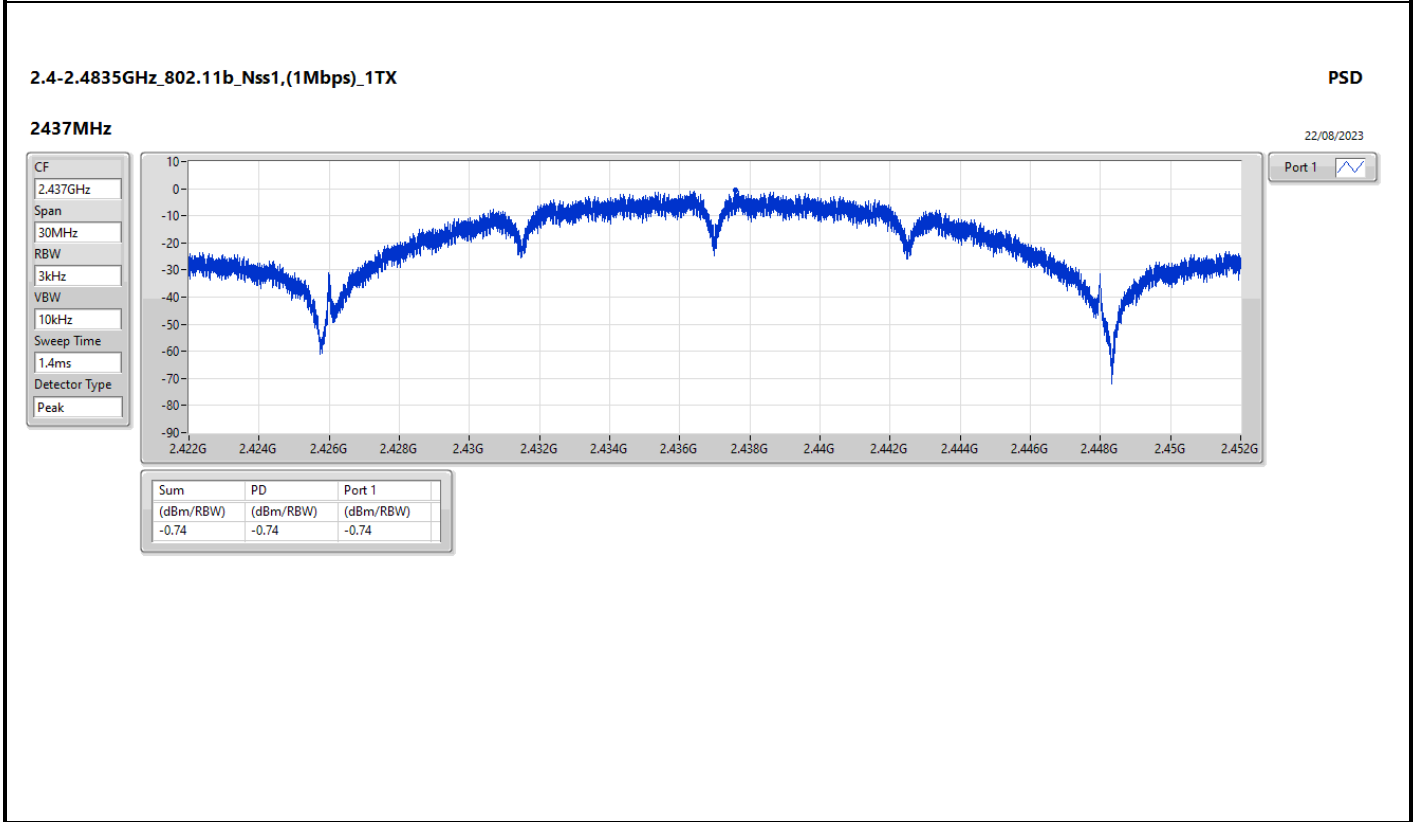
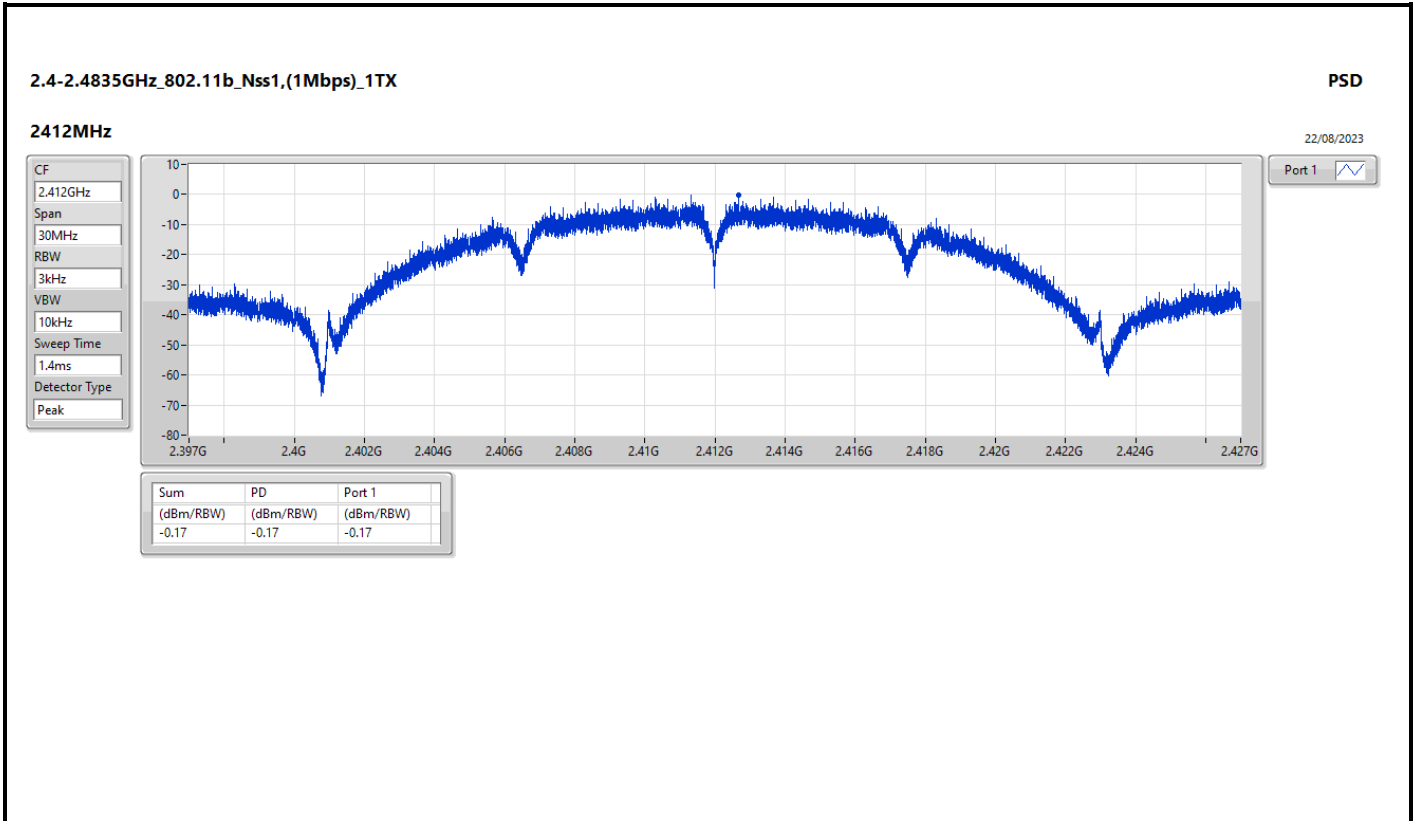
Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-0.17
802.11g_Nss1,(6Mbps)_1TX	-4.98
802.11n HT20_Nss1,(MCS0)_1TX	-6.04
802.11n HT40_Nss1,(MCS0)_1TX	-11.83

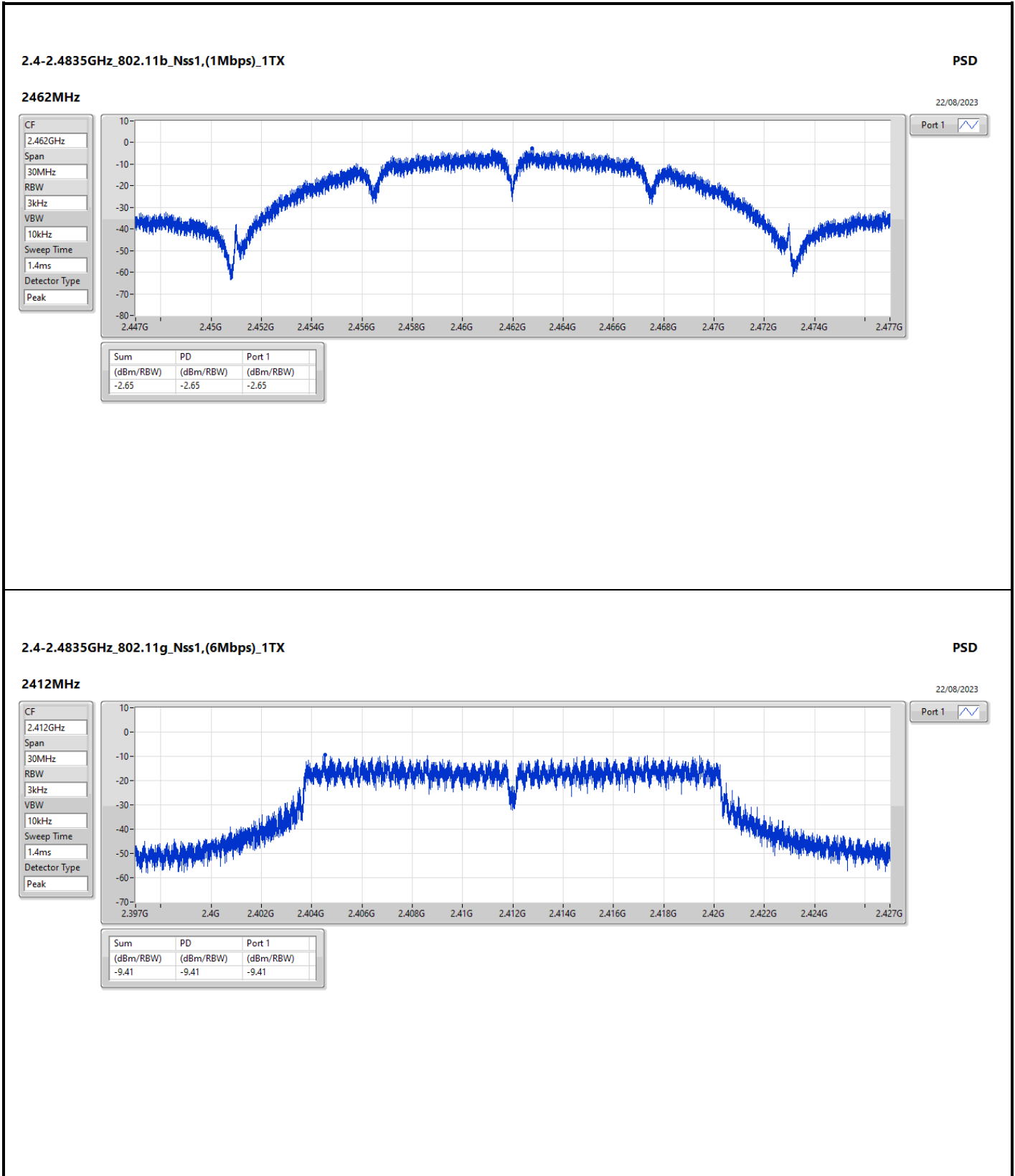
RBW = 3kHz;

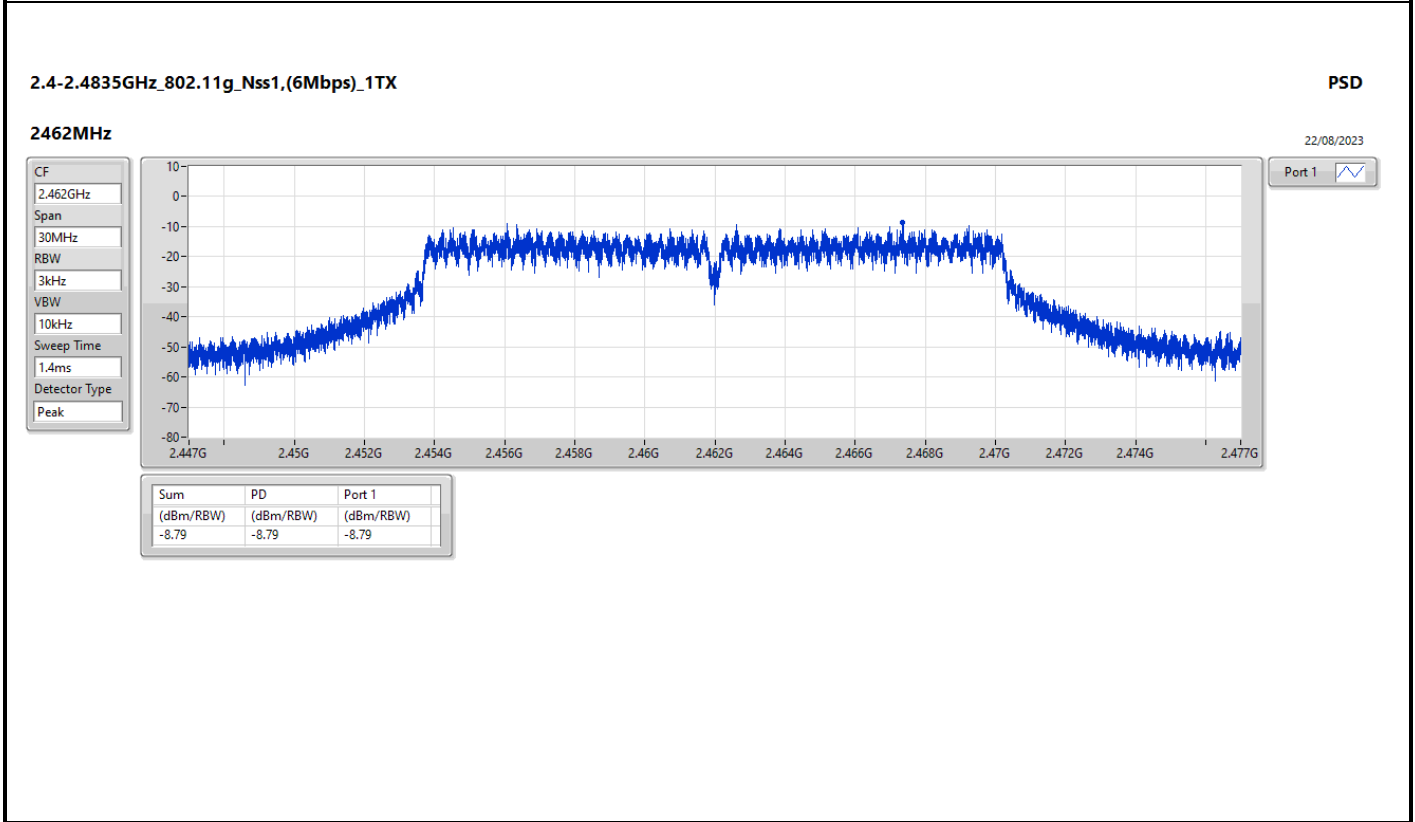
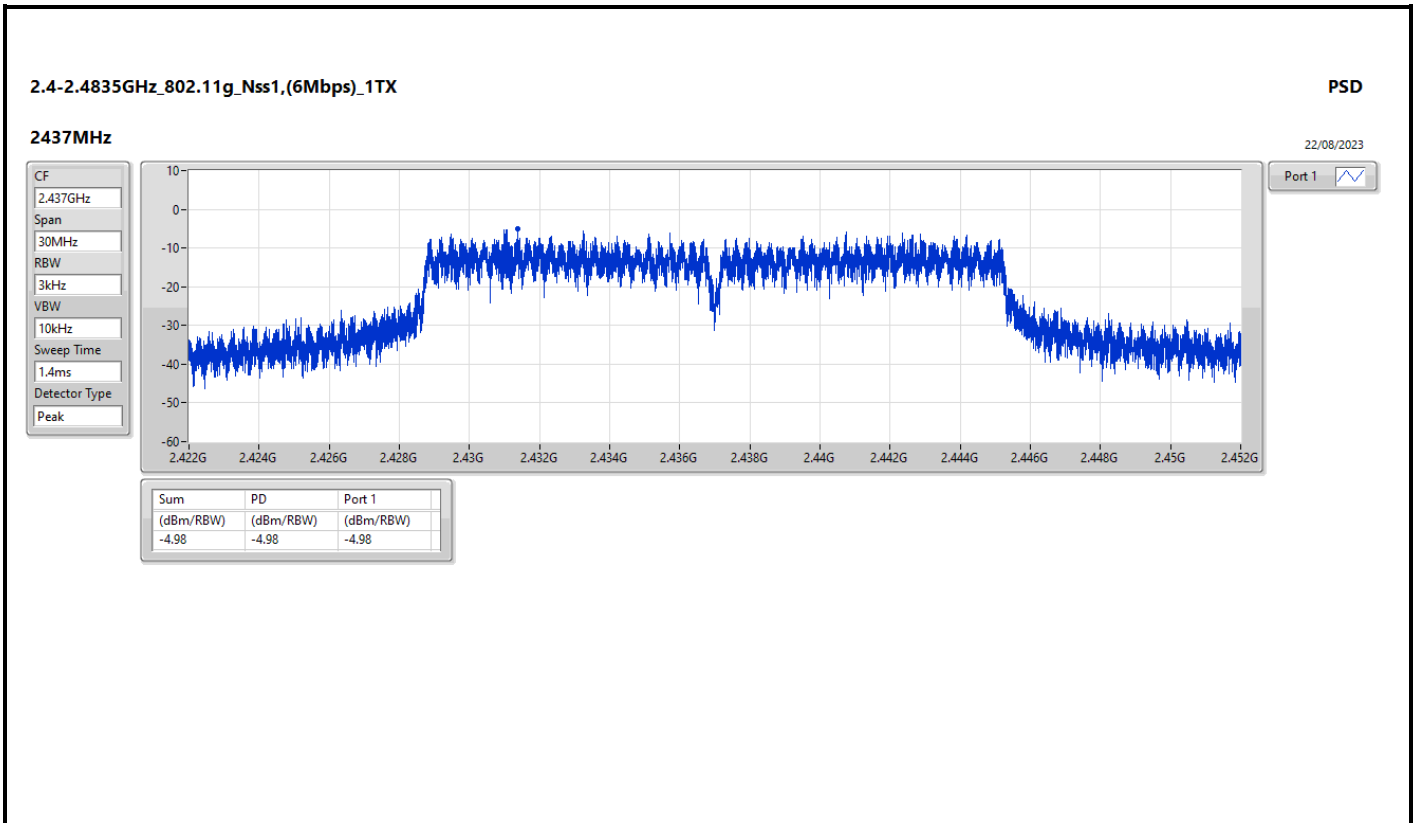
Result

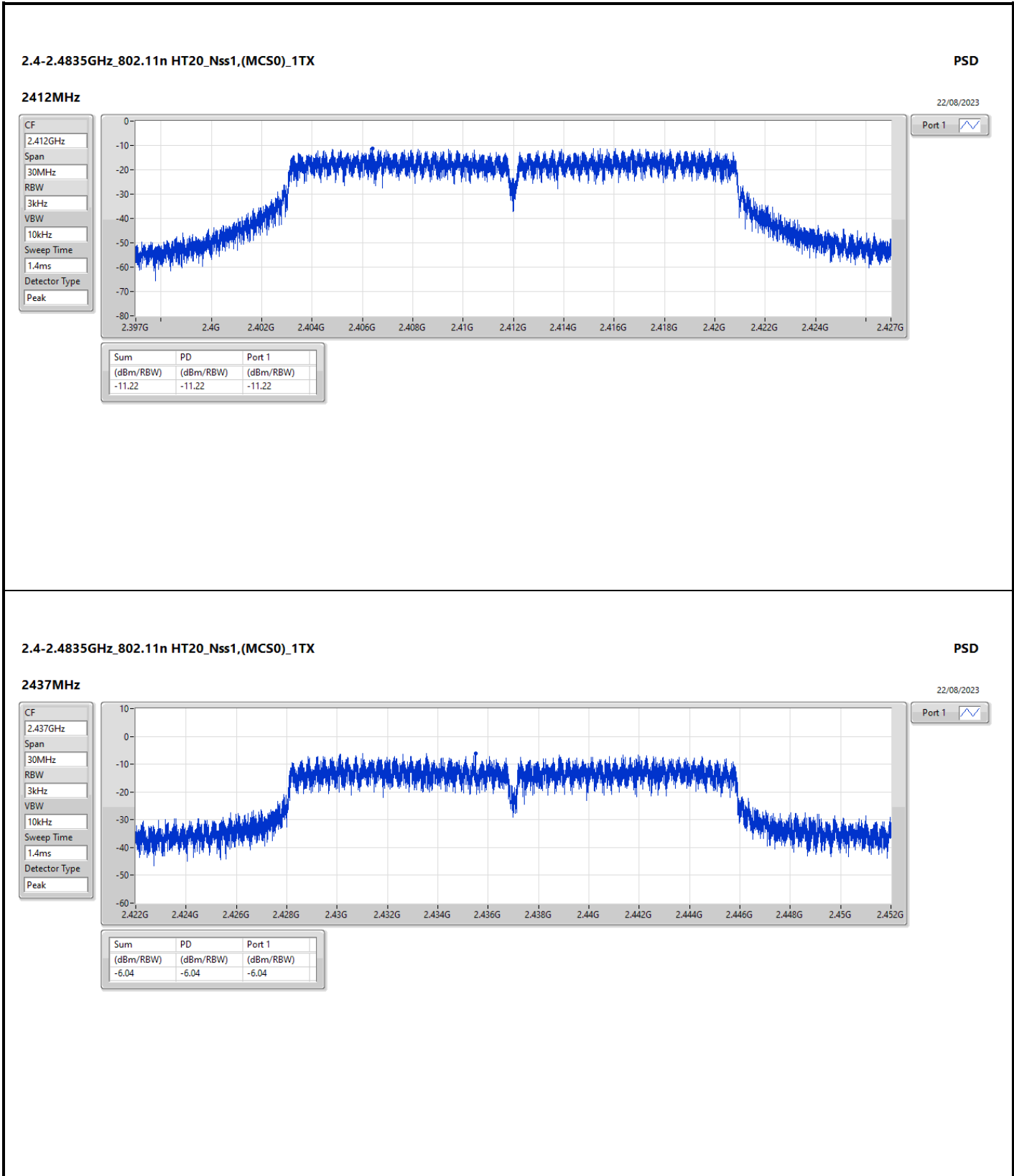
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.02	-0.17	-0.17	8.00
2437MHz	Pass	4.02	-0.74	-0.74	8.00
2462MHz	Pass	4.02	-2.65	-2.65	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.02	-9.41	-9.41	8.00
2437MHz	Pass	4.02	-4.98	-4.98	8.00
2462MHz	Pass	4.02	-8.79	-8.79	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	4.02	-11.22	-11.22	8.00
2437MHz	Pass	4.02	-6.04	-6.04	8.00
2462MHz	Pass	4.02	-11.03	-11.03	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	4.02	-12.01	-12.01	8.00
2437MHz	Pass	4.02	-11.83	-11.83	8.00
2452MHz	Pass	4.02	-14.41	-14.41	8.00

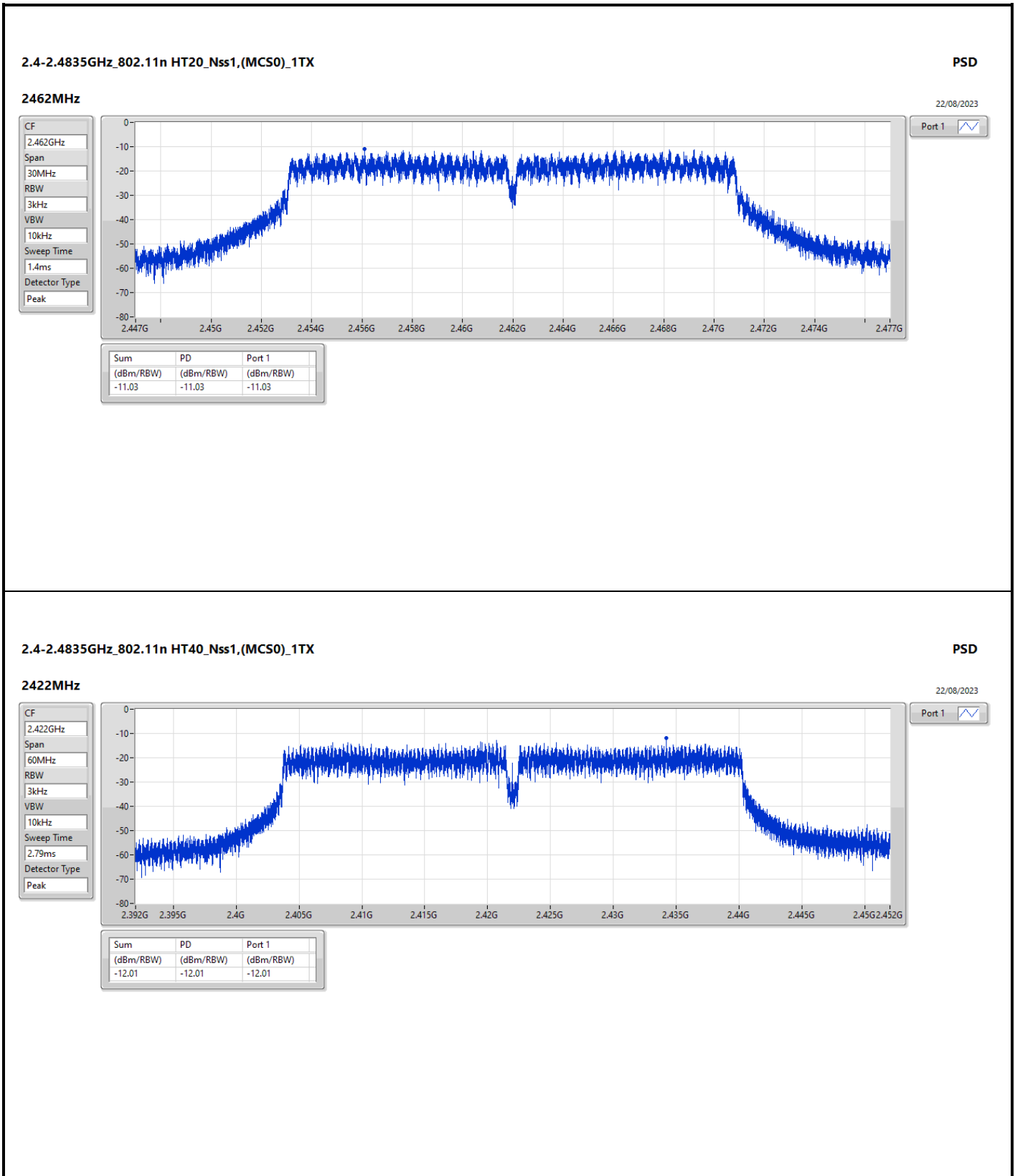
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

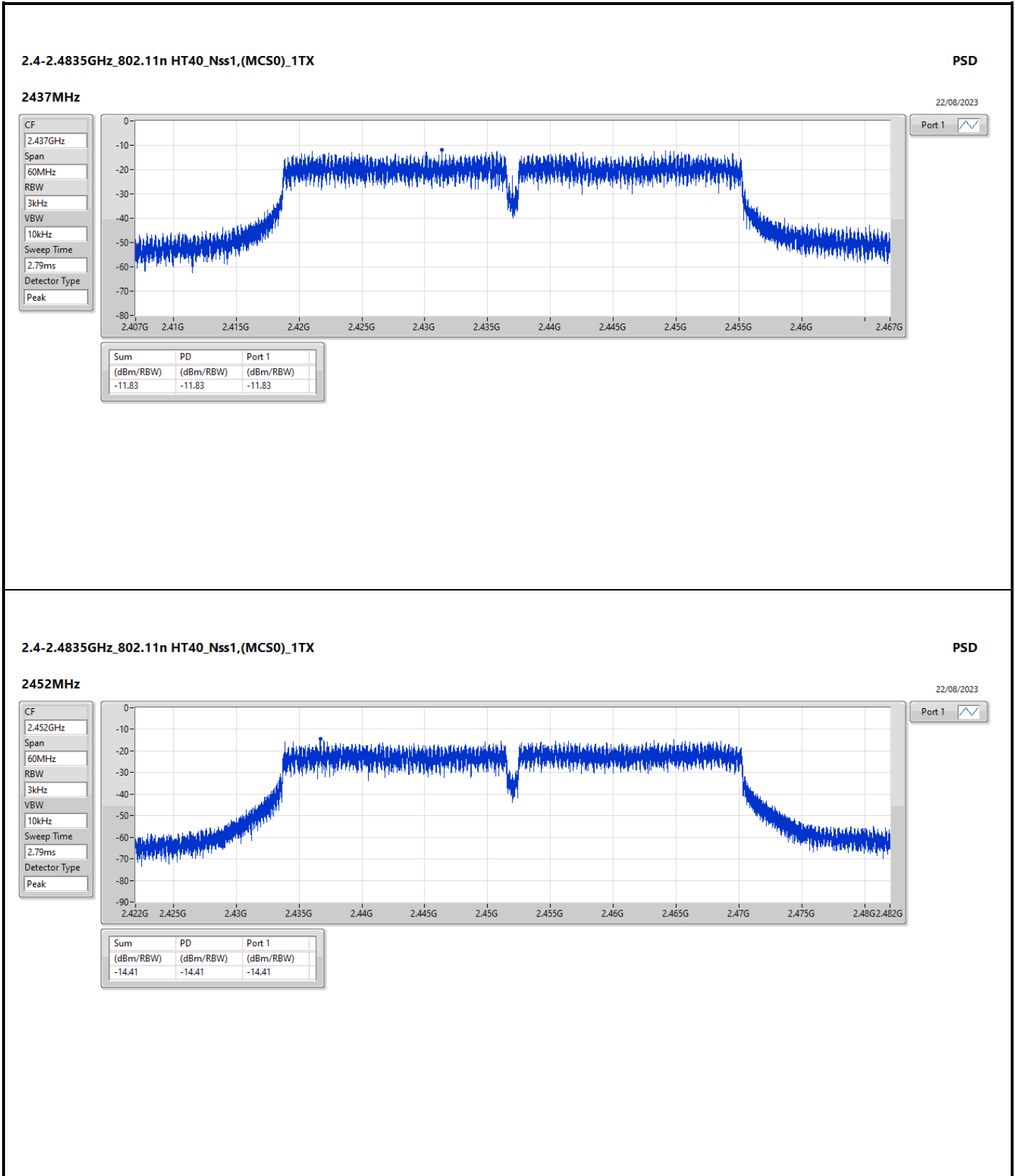














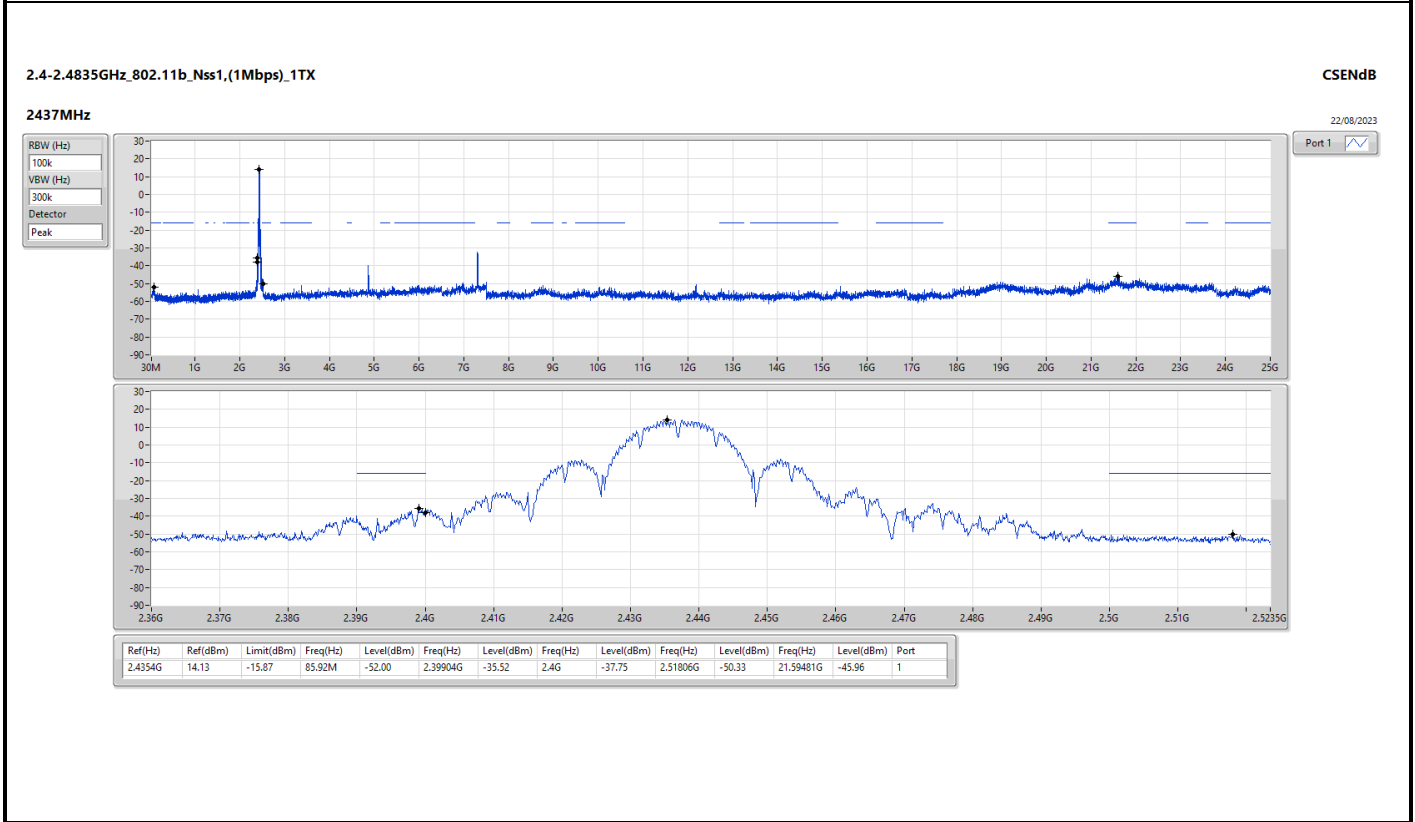
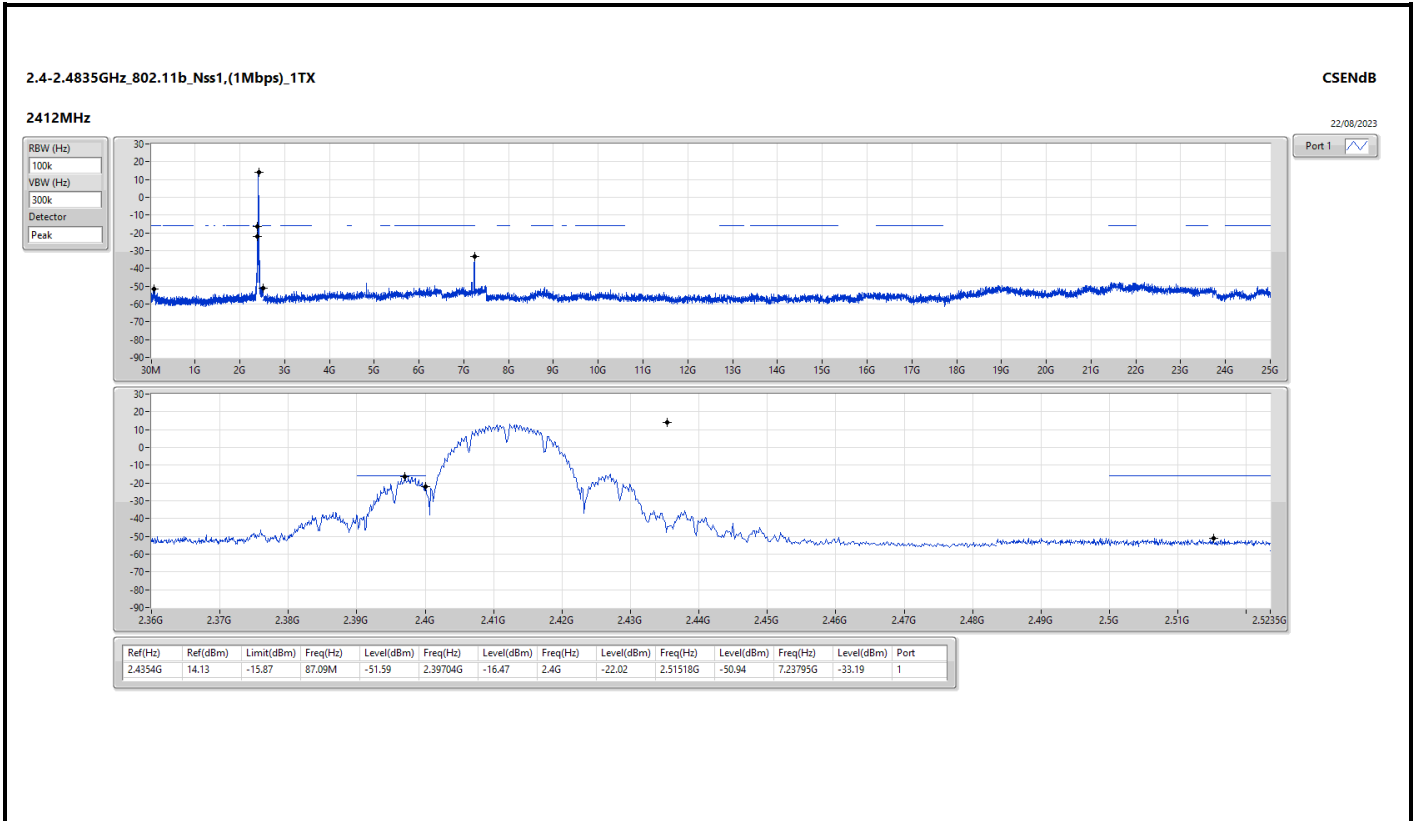
Summary

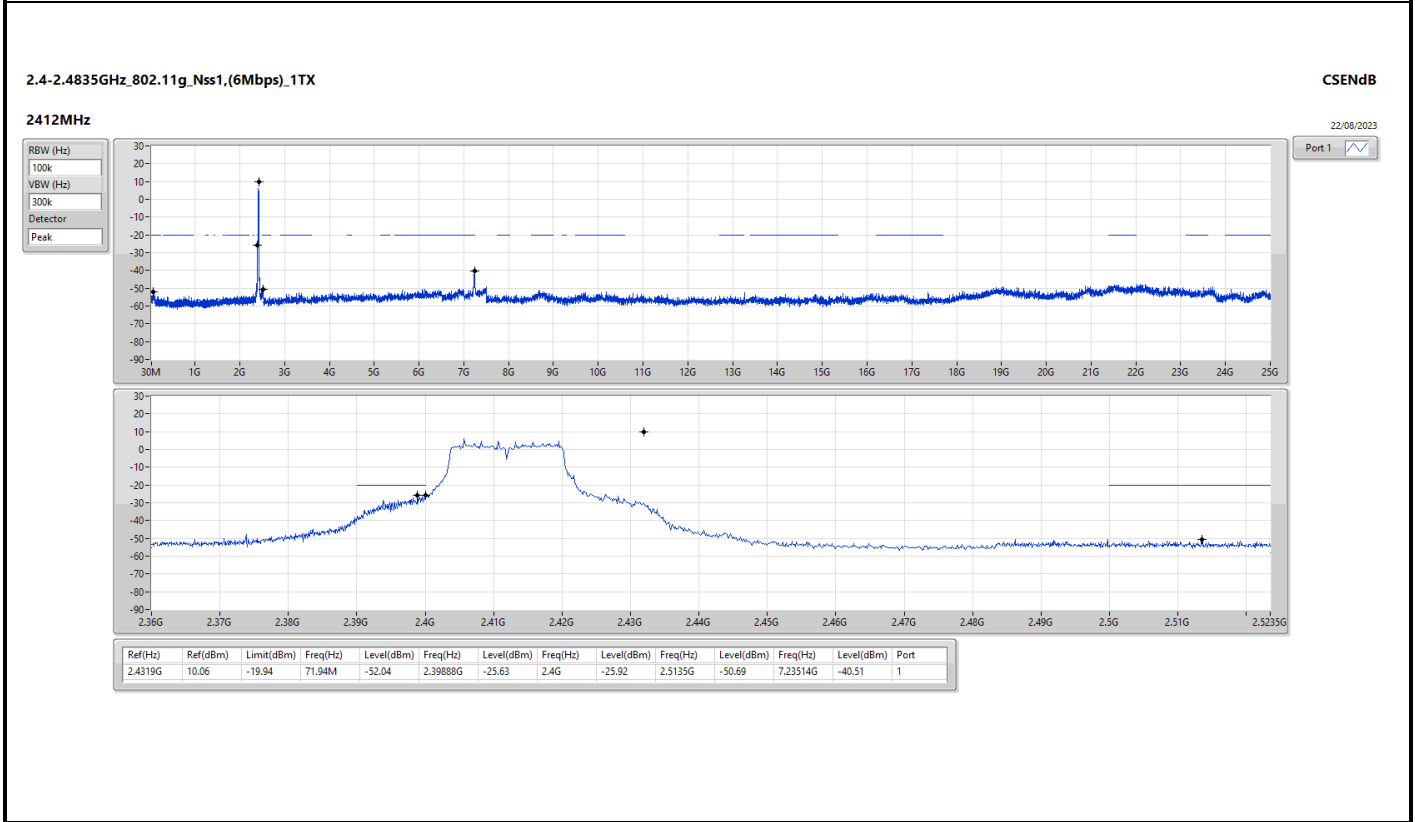
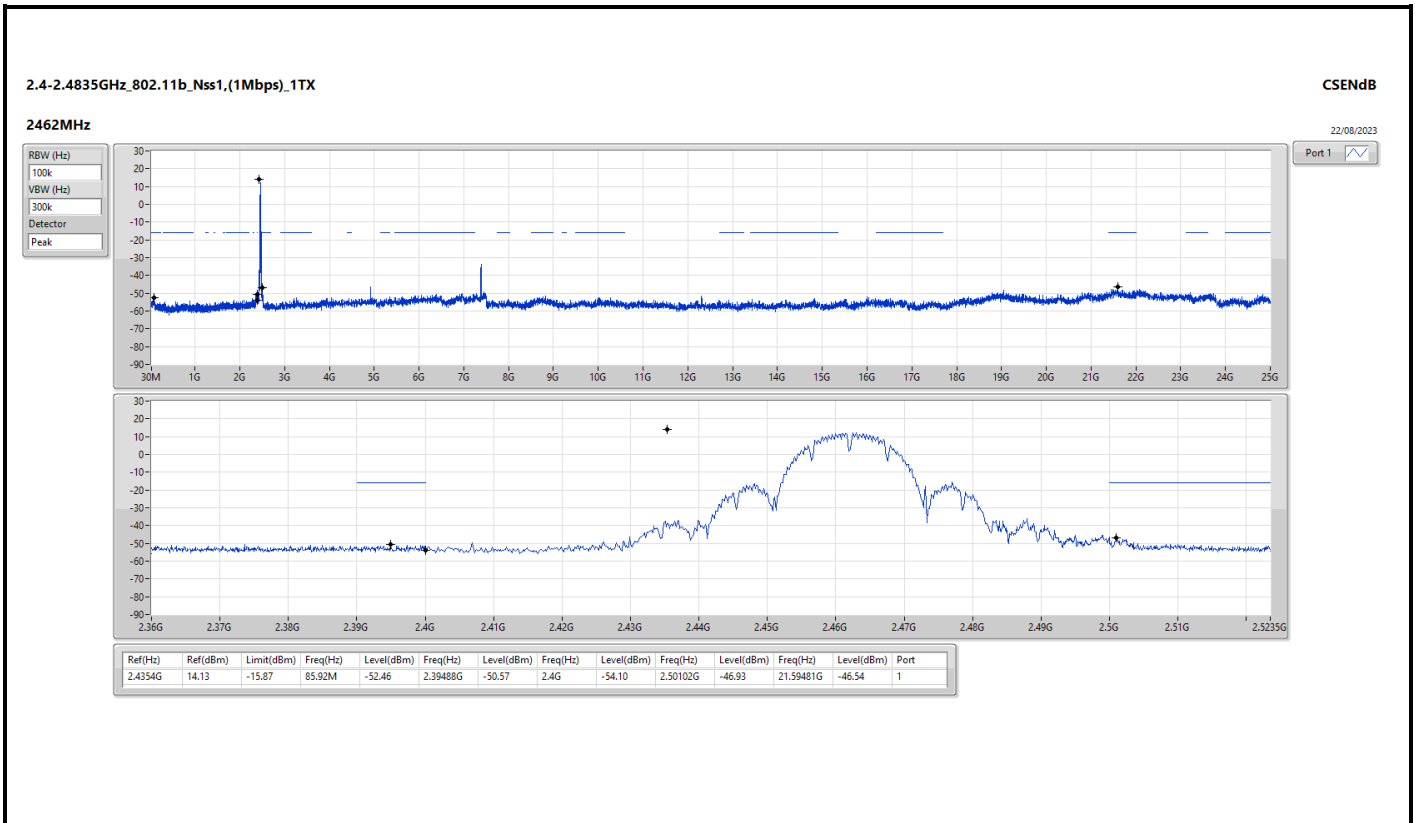
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.4354G	14.13	-15.87	87.09M	-51.59	2.39704G	-16.47	2.4G	-22.02	2.51518G	-50.94	7.23795G	-33.19	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.4319G	10.06	-19.94	71.94M	-52.04	2.39888G	-25.63	2.4G	-25.92	2.5135G	-50.69	7.23514G	-40.51	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.43073G	10.19	-19.81	87.09M	-52.15	2.39992G	-27.61	2.4G	-27.88	2.50222G	-50.58	7.22952G	-43.75	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.42188G	3.27	-26.73	64.35M	-51.93	2.39984G	-30.23	2.4G	-33.92	2.50014G	-47.12	21.67659G	-48.01	1

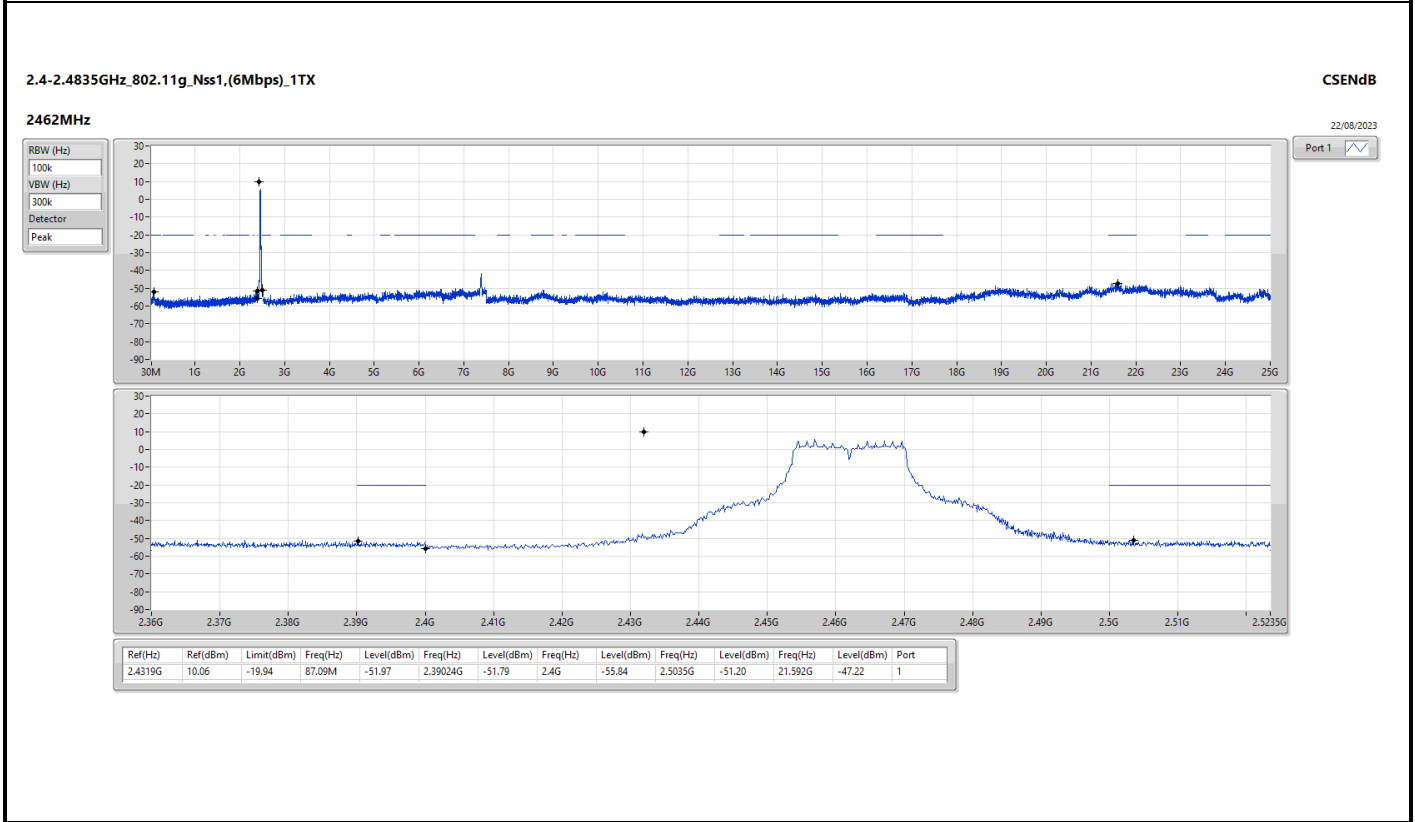
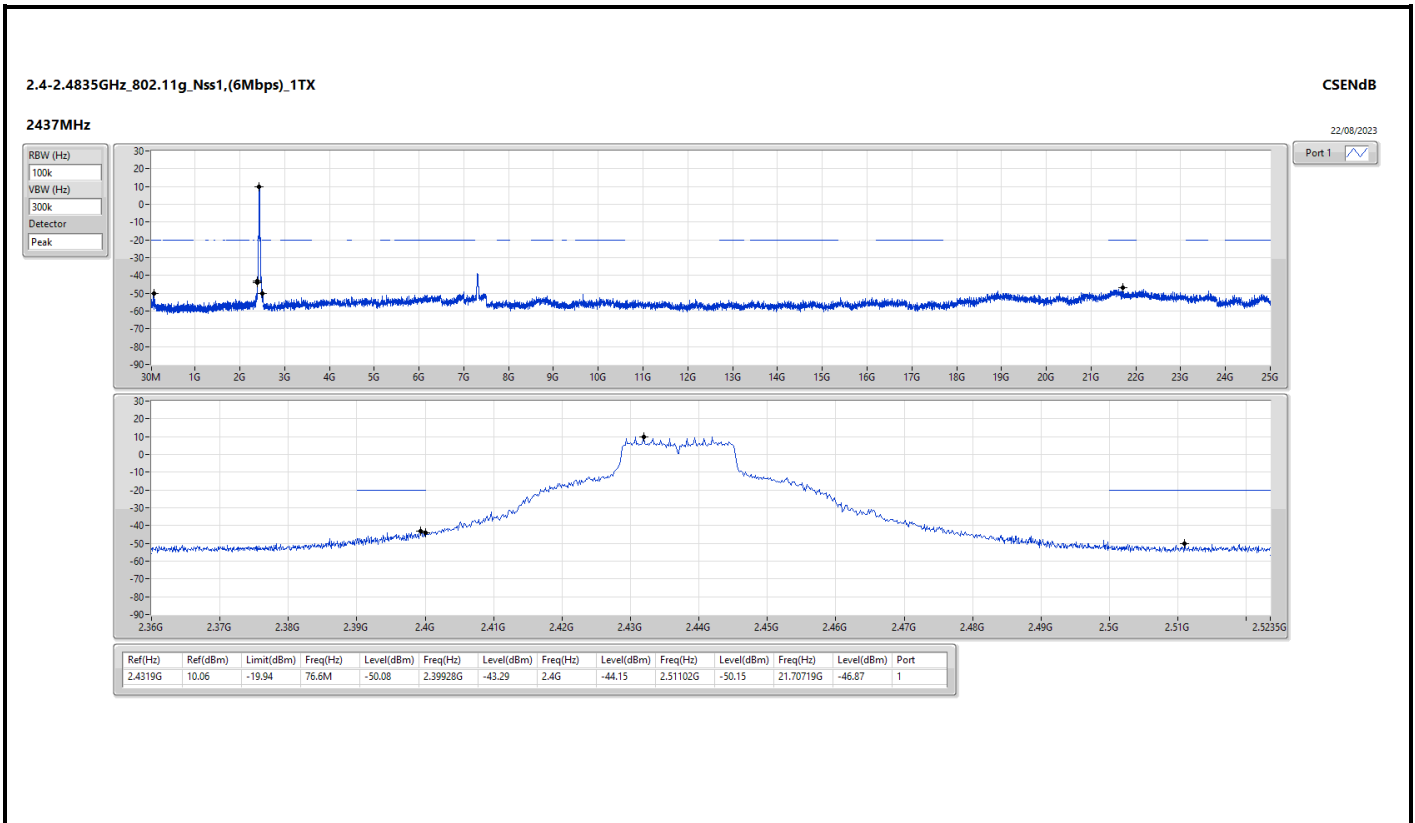


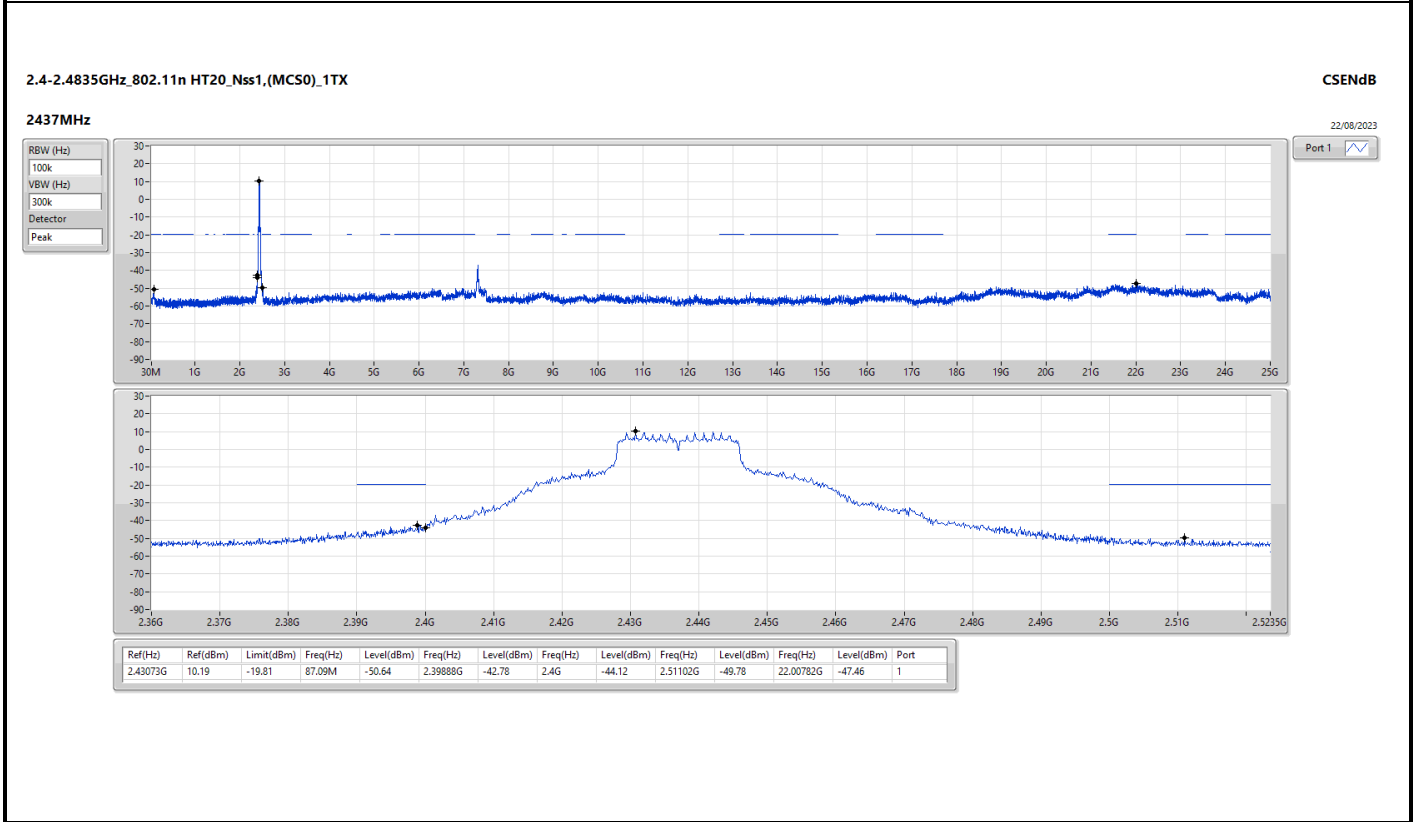
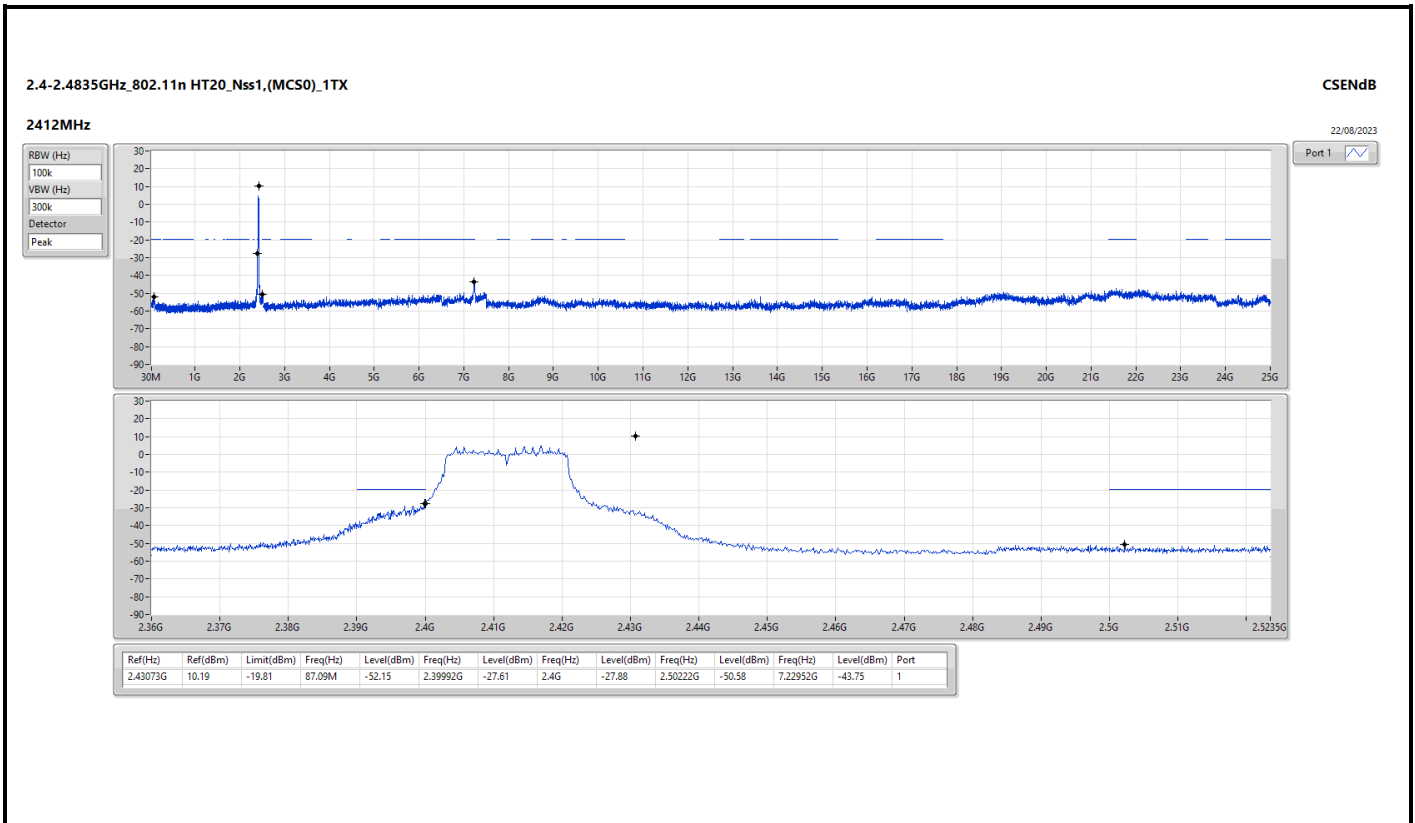
Result

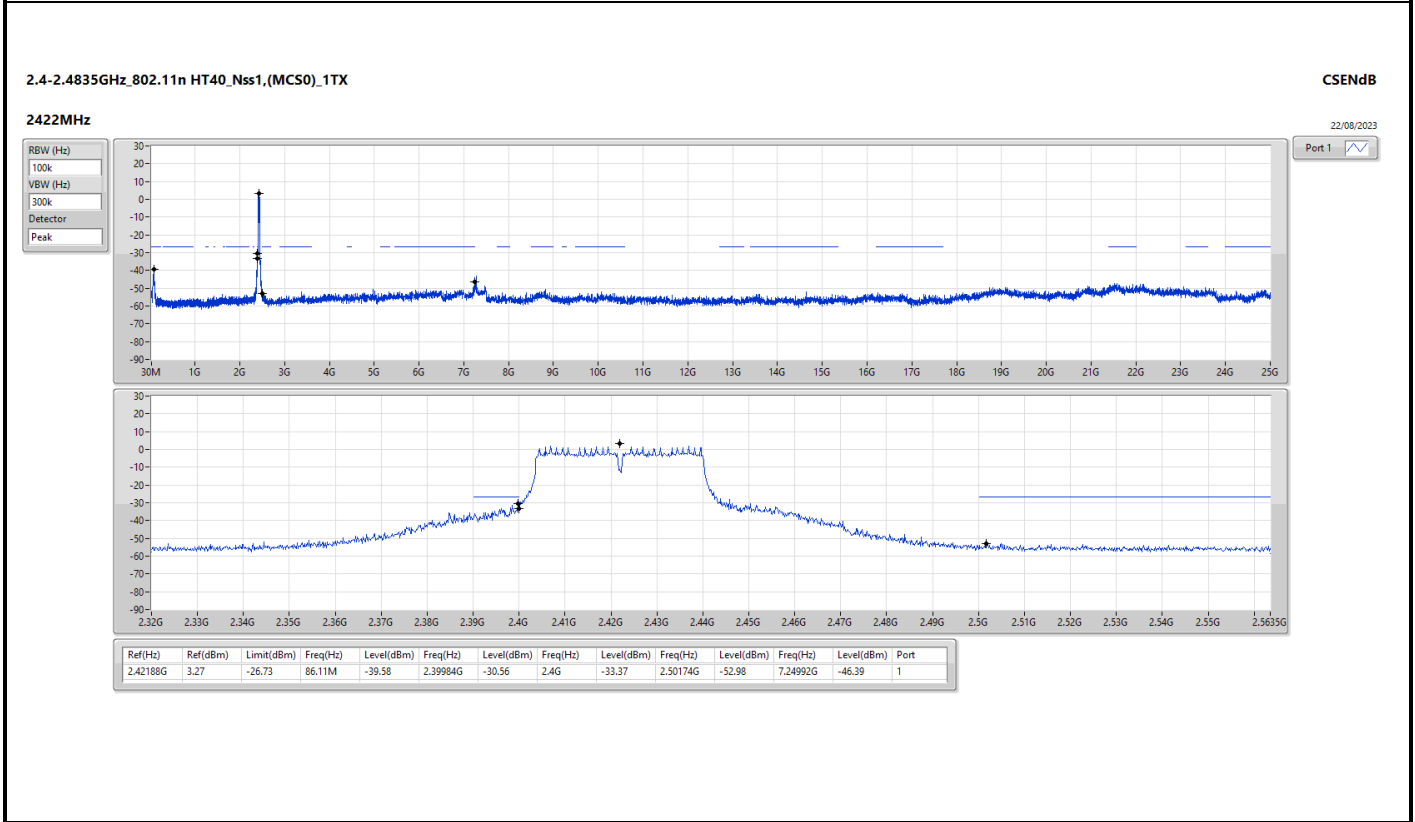
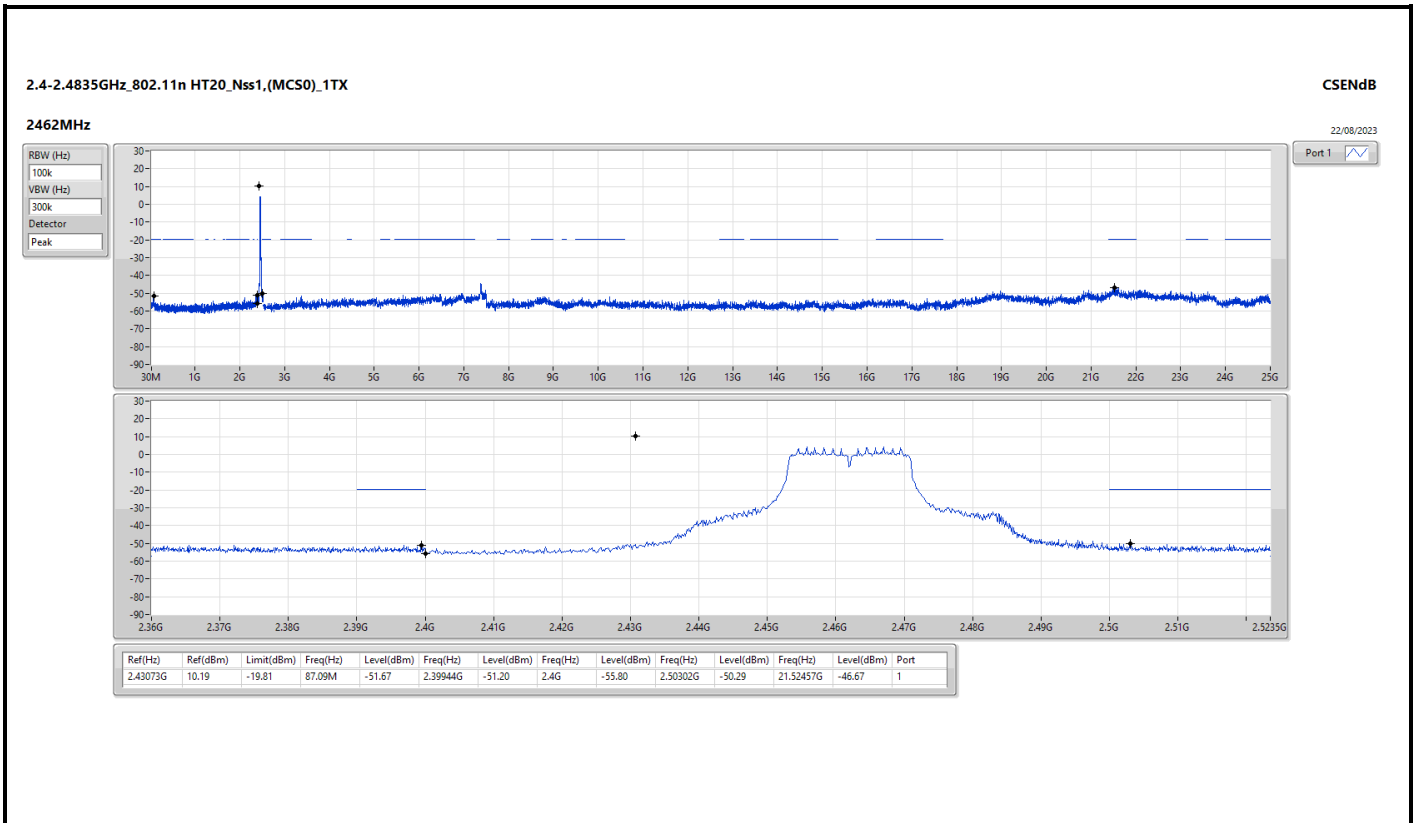
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4354G	14.13	-15.87	87.09M	-51.59	2.39704G	-16.47	2.4G	-22.02	2.51518G	-50.94	7.23795G	-33.19	1
2437MHz	Pass	2.4354G	14.13	-15.87	85.92M	-52.00	2.39904G	-35.52	2.4G	-37.75	2.51806G	-50.33	21.59481G	-45.96	1
2462MHz	Pass	2.4354G	14.13	-15.87	85.92M	-52.46	2.39488G	-50.57	2.4G	-54.10	2.50102G	-46.93	21.59481G	-46.54	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4319G	10.06	-19.94	71.94M	-52.04	2.39888G	-25.63	2.4G	-25.92	2.5135G	-50.69	7.23514G	-40.51	1
2437MHz	Pass	2.4319G	10.06	-19.94	76.6M	-50.08	2.39928G	-43.29	2.4G	-44.15	2.51102G	-50.15	21.70719G	-46.87	1
2462MHz	Pass	2.4319G	10.06	-19.94	87.09M	-51.97	2.39024G	-51.79	2.4G	-55.84	2.5035G	-51.20	21.592G	-47.22	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43073G	10.19	-19.81	87.09M	-52.15	2.39992G	-27.61	2.4G	-27.88	2.50222G	-50.58	7.22952G	-43.75	1
2437MHz	Pass	2.43073G	10.19	-19.81	87.09M	-50.64	2.39888G	-42.78	2.4G	-44.12	2.51102G	-49.78	22.00782G	-47.46	1
2462MHz	Pass	2.43073G	10.19	-19.81	87.09M	-51.67	2.39944G	-51.20	2.4G	-55.80	2.50302G	-50.29	21.52457G	-46.67	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42188G	3.27	-26.73	86.11M	-39.58	2.39984G	-30.56	2.4G	-33.37	2.50174G	-52.98	7.24992G	-46.39	1
2437MHz	Pass	2.42188G	3.27	-26.73	64.35M	-51.93	2.39984G	-30.23	2.4G	-33.92	2.50014G	-47.12	21.67659G	-48.01	1
2452MHz	Pass	2.42188G	3.27	-26.73	86.11M	-39.28	2.39488G	-50.54	2.4G	-51.95	2.50046G	-47.14	21.89815G	-47.15	1

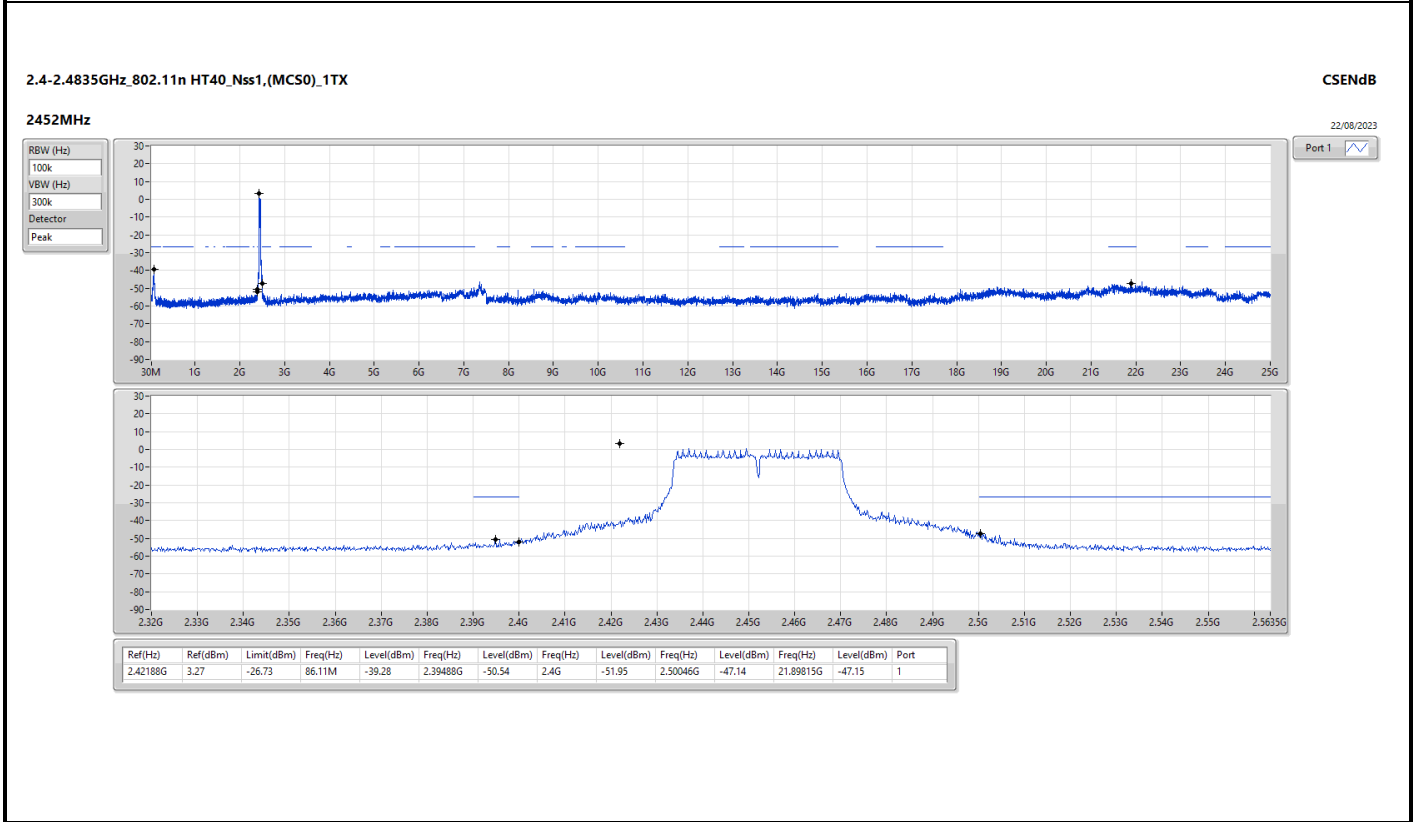
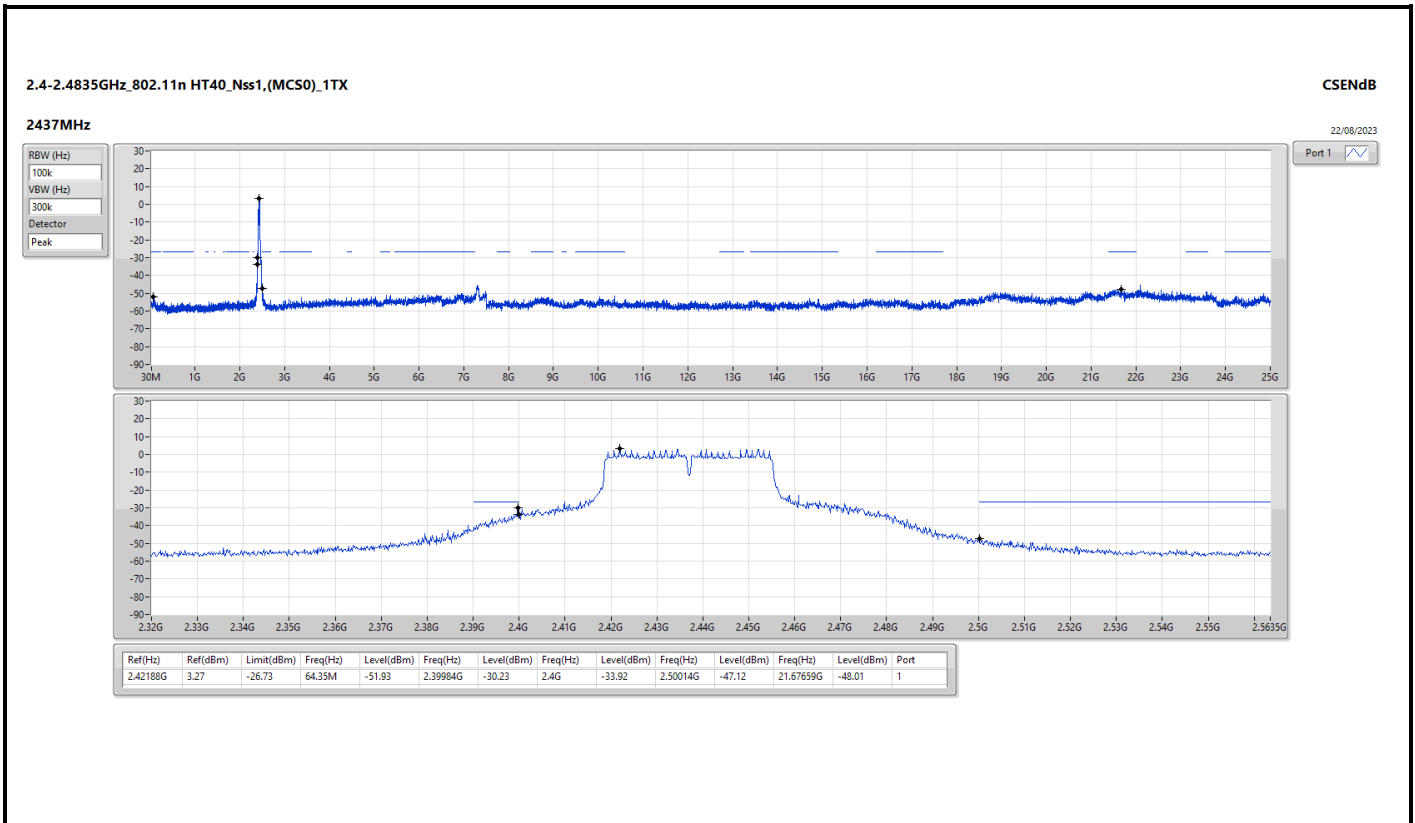










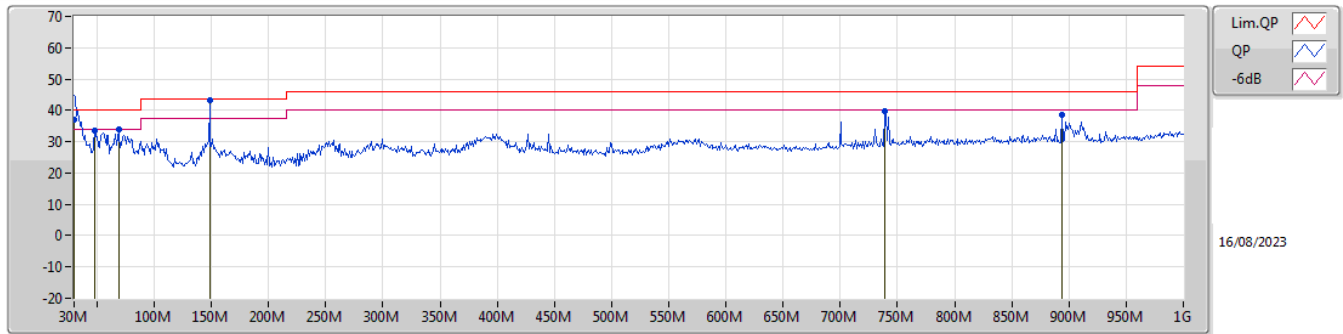




Summary

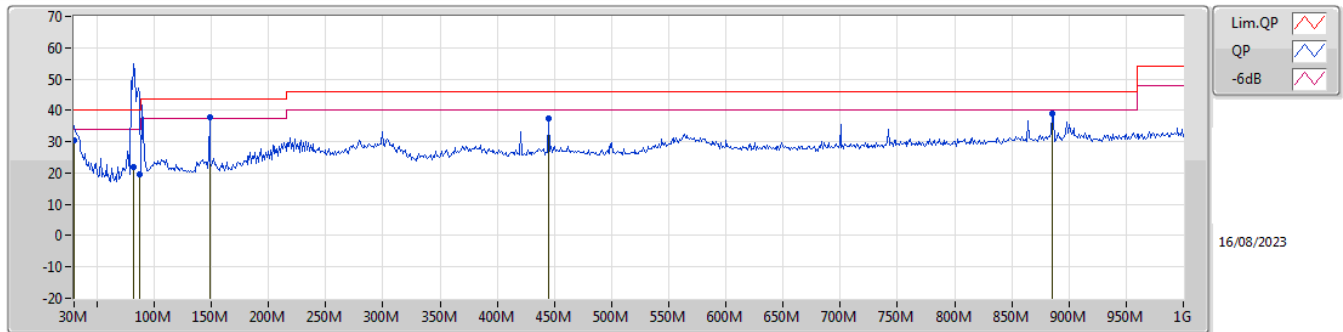
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	148.34M	43.10	43.50	-0.40	Vertical

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
QP	30M	36.92	40.00	-3.08	-19.74	3	Vertical	305	1.00	-	56.66	24.08	0.50	44.32
PK	48.43M	33.53	40.00	-6.47	-30.06	3	Vertical	111	1.25	-	63.59	13.88	0.63	44.57
PK	68.8M	33.94	40.00	-6.06	-32.44	3	Vertical	35	2.00	-	66.38	11.44	0.74	44.62
QP	148.34M	43.10	43.50	-0.40	-27.90	3	Vertical	236	1.25	"Worst"	71.00	15.62	1.05	44.57
PK	739.07M	39.82	46.00	-6.18	-16.83	3	Vertical	88	1.00	-	56.65	24.56	2.23	43.62
PK	894.27M	38.54	46.00	-7.46	-15.36	3	Vertical	196	3.00	-	53.90	25.61	2.47	43.44

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
QP	30M	30.56	40.00	-9.44	-19.74	3	Horizontal	236	1.25	-	50.30	24.08	0.50	44.32
QP	82.38M	21.89	40.00	-18.11	-31.27	3	Horizontal	181	1.50	-	53.16	12.53	0.79	44.59
QP	87.23M	19.69	40.00	-20.31	-30.41	3	Horizontal	2	1.50	-	50.10	13.38	0.81	44.60
QP	148.34M	37.87	43.50	-5.63	-27.90	3	Horizontal	228	2.00	"Worst"	65.77	15.62	1.05	44.57
PK	445.16M	37.43	46.00	-8.57	-20.48	3	Horizontal	60	1.00	-	57.91	21.77	1.79	44.04
PK	885.54M	38.79	46.00	-7.21	-15.17	3	Horizontal	122	1.25	-	53.96	25.83	2.46	43.46

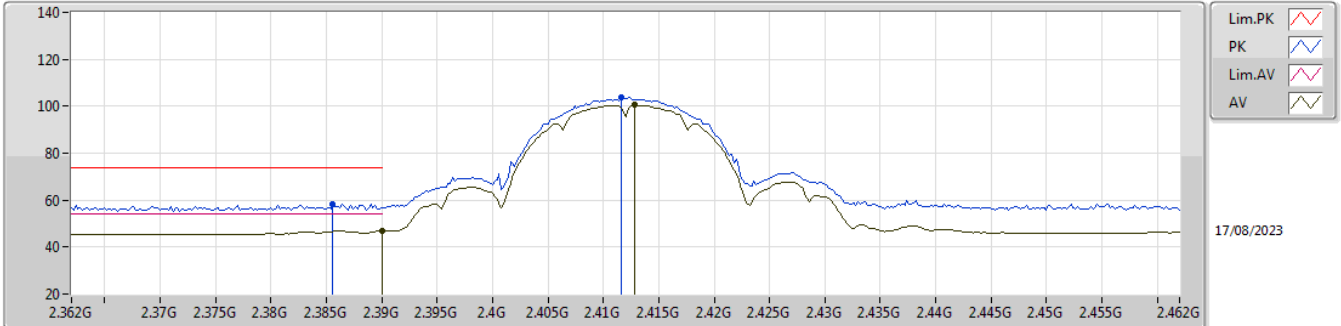


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.3898G	53.93	54.00	-0.07	3	Horizontal	294	1.35	-

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

2412MHz_TX

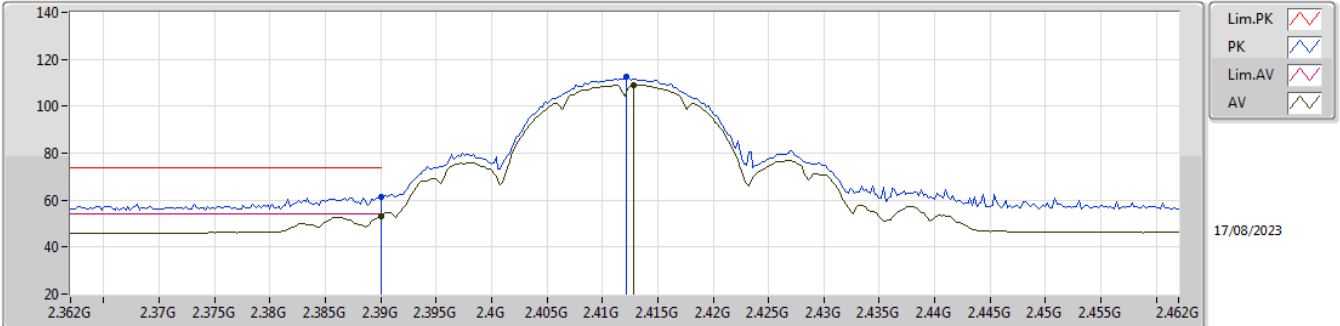


EUT_Z_1TX
 Setting 58
 02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3856G	58.20	74.00	-15.80	26.61	3	Vertical	313	2.30	-	28.40	3.19	-
AV	2.39G	46.65	54.00	-7.35	15.05	3	Vertical	313	2.30	-	28.40	3.20	-
PK	2.4116G	103.92	Inf	-Inf	72.31	3	Vertical	313	2.30	-	28.40	3.21	-
AV	2.4128G	100.51	Inf	-Inf	68.90	3	Vertical	313	2.30	-	28.40	3.21	-

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

2412MHz_TX

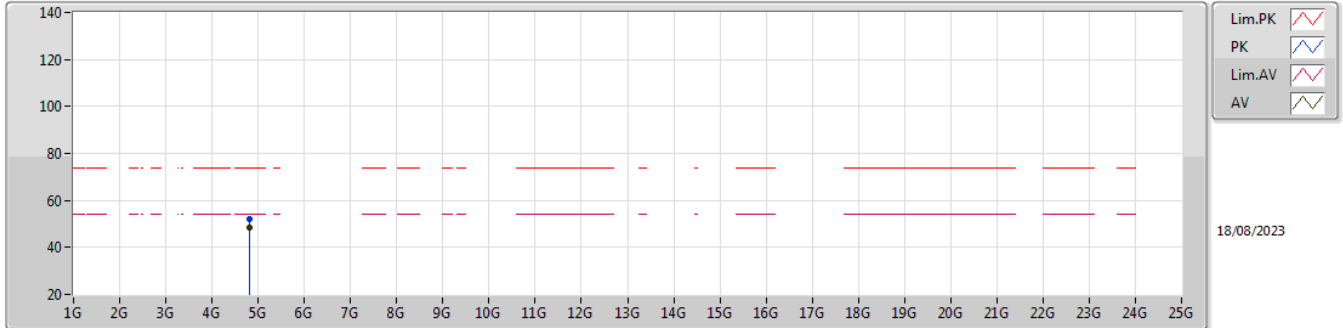


EUT_Z_1TX
 Setting 58
 02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	61.17	74.00	-12.83	29.57	3	Horizontal	296	1.25	-	28.40	3.20	-
AV	2.39G	53.16	54.00	-0.84	21.56	3	Horizontal	296	1.25	-	28.40	3.20	-
PK	2.4122G	112.65	Inf	-Inf	81.04	3	Horizontal	296	1.25	-	28.40	3.21	-
AV	2.4128G	108.99	Inf	-Inf	77.38	3	Horizontal	296	1.25	-	28.40	3.21	-

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

2412MHz_TX

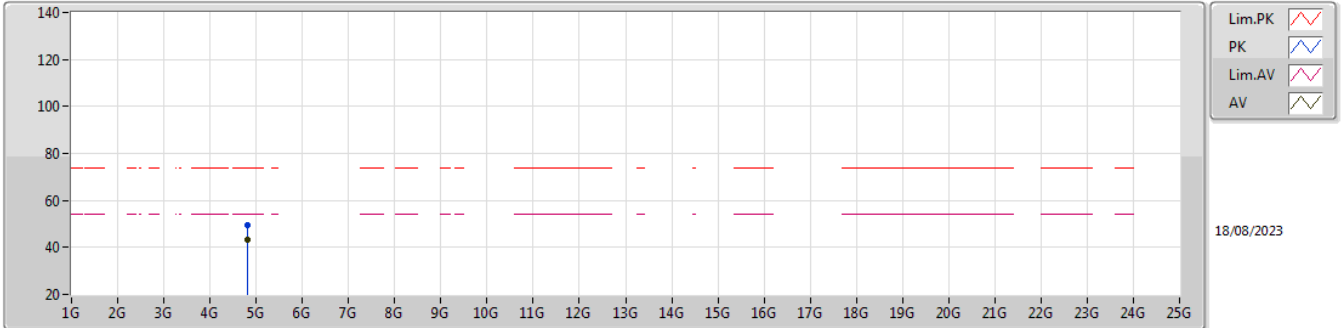


EUT_Z_1TX
Setting 58
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82412G	52.18	74.00	-21.82	44.31	3	Vertical	257	1.15	-	32.94	5.61	30.68
AV	4.82394G	48.31	54.00	-5.69	40.44	3	Vertical	257	1.15	-	32.94	5.61	30.68

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

2412MHz_TX

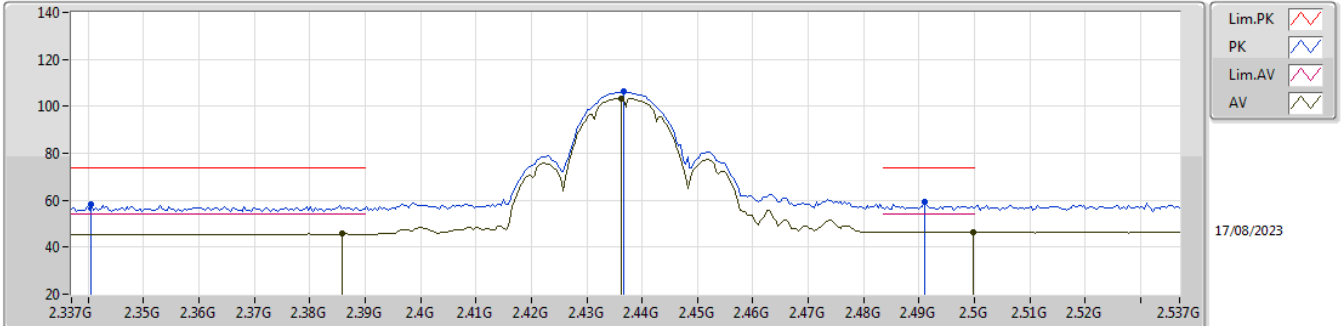


EUT_Z_1TX
Setting 58
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82406G	49.53	74.00	-24.47	41.66	3	Horizontal	311	1.05	-	32.94	5.61	30.68
AV	4.82394G	43.18	54.00	-10.82	35.31	3	Horizontal	311	1.05	-	32.94	5.61	30.68

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

2437MHz_TX

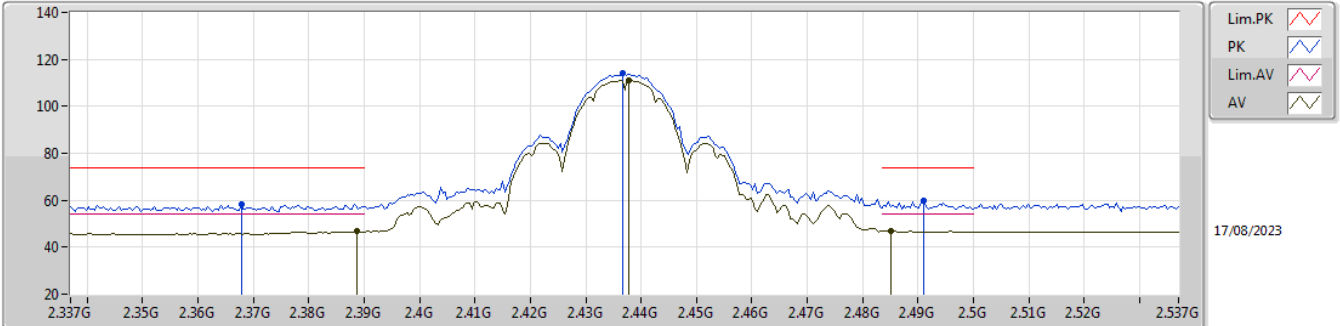


EUT_Z_1TX
Setting 62
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3406G	58.03	74.00	-15.97	26.75	3	Vertical	270	2.91	-	28.11	3.17	-
AV	2.3858G	45.86	54.00	-8.14	14.27	3	Vertical	270	2.91	-	28.40	3.19	-
PK	2.4366G	106.30	Inf	-Inf	74.65	3	Vertical	270	2.91	-	28.43	3.22	-
AV	2.4362G	103.35	Inf	-Inf	71.69	3	Vertical	270	2.91	-	28.44	3.22	-
PK	2.491G	59.24	74.00	-14.76	27.48	3	Vertical	270	2.91	-	28.51	3.25	-
AV	2.4998G	46.24	54.00	-7.76	14.39	3	Vertical	270	2.91	-	28.60	3.25	-

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

2437MHz_TX

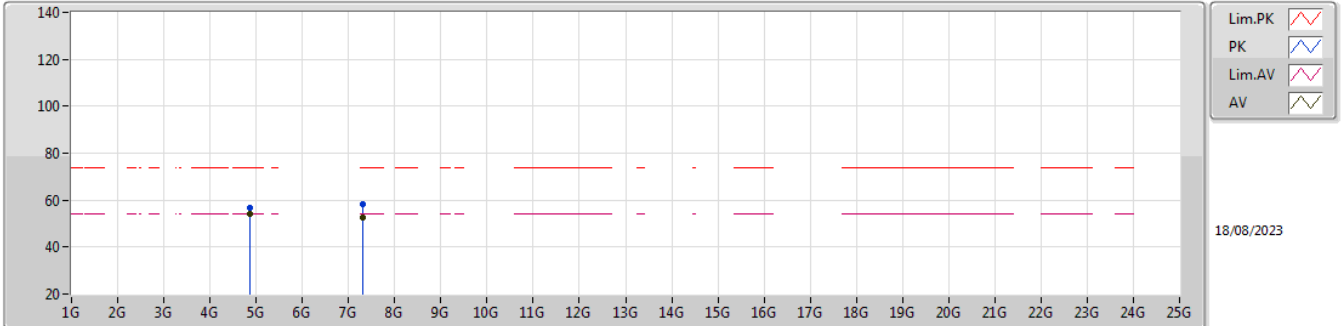


EUT_Z_1TX
Setting 62
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3678G	58.34	74.00	-15.66	26.88	3	Horizontal	324	1.24	-	28.28	3.18	-
AV	2.3886G	46.64	54.00	-7.36	15.05	3	Horizontal	324	1.24	-	28.40	3.19	-
PK	2.4366G	113.97	Inf	-Inf	82.32	3	Horizontal	324	1.24	-	28.43	3.22	-
AV	2.4378G	110.94	Inf	-Inf	79.30	3	Horizontal	324	1.24	-	28.42	3.22	-
PK	2.491G	59.67	74.00	-14.33	27.91	3	Horizontal	324	1.24	-	28.51	3.25	-
AV	2.485G	46.99	54.00	-7.01	15.25	3	Horizontal	324	1.24	-	28.50	3.24	-

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

2437MHz_TX

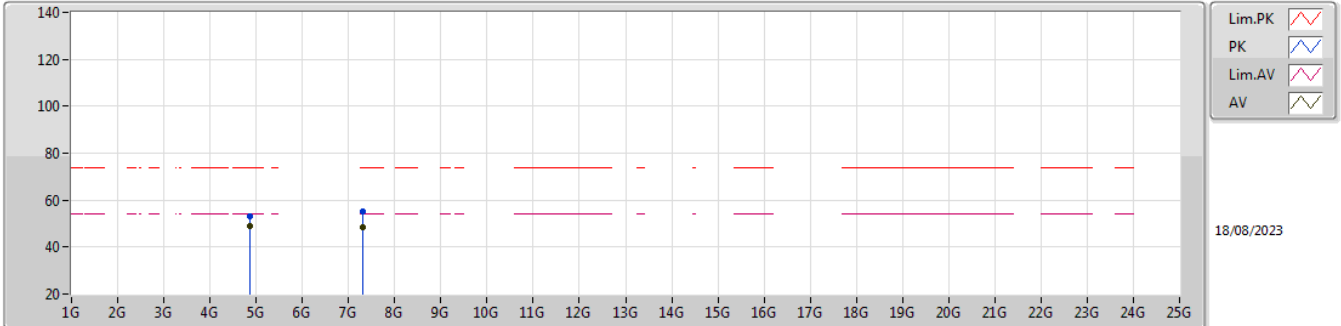


EUT_Z_1TX
Setting 62
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.874G	56.66	74.00	-17.34	48.51	3	Vertical	186	1.59	-	33.15	5.64	30.64
AV	4.87397G	53.91	54.00	-0.09	45.76	3	Vertical	186	1.59	-	33.15	5.64	30.64
PK	7.31128G	58.40	74.00	-15.60	47.05	3	Vertical	81	1.00	-	36.62	6.84	32.11
AV	7.31176G	52.74	54.00	-1.26	41.39	3	Vertical	81	1.00	-	36.62	6.84	32.11

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

2437MHz_TX

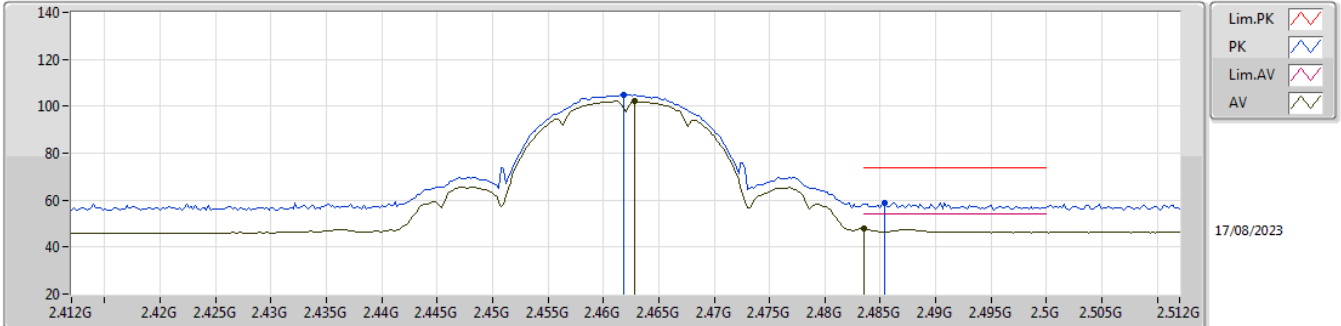


EUT_Z_1TX
Setting 62
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87396G	52.86	74.00	-21.14	44.71	3	Horizontal	290	1.00	-	33.15	5.64	30.64
AV	4.87396G	49.10	54.00	-4.90	40.95	3	Horizontal	290	1.00	-	33.15	5.64	30.64
PK	7.31124G	55.01	74.00	-18.99	43.66	3	Horizontal	255	1.10	-	36.62	6.84	32.11
AV	7.31124G	48.45	54.00	-5.55	37.10	3	Horizontal	255	1.10	-	36.62	6.84	32.11

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

2462MHz_TX

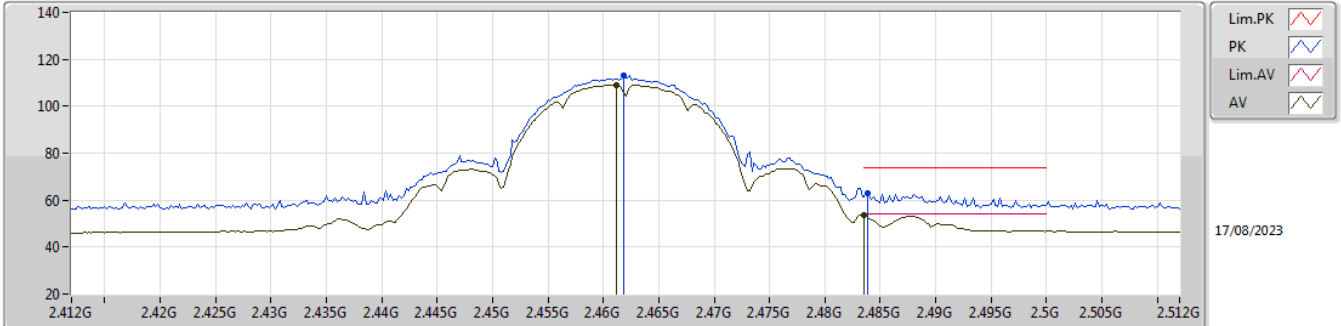


EUT_Z_1TX
Setting 55
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4618G	104.90	Inf	-Inf	73.17	3	Vertical	270	2.74	-	28.50	3.23	-
AV	2.4628G	102.12	Inf	-Inf	70.39	3	Vertical	270	2.74	-	28.50	3.23	-
PK	2.4854G	58.87	74.00	-15.13	27.13	3	Vertical	270	2.74	-	28.50	3.24	-
AV	2.4835G	47.72	54.00	-6.28	15.98	3	Vertical	270	2.74	-	28.50	3.24	-

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

2462MHz_TX

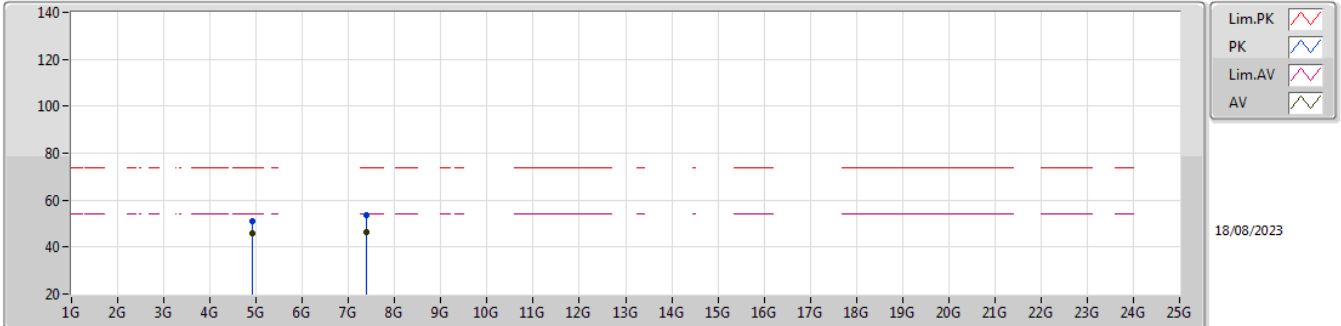


EUT_Z_1TX
 Setting 55
 02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4618G	113.26	Inf	-Inf	81.53	3	Horizontal	322	1.18	-	28.50	3.23	-
AV	2.4612G	109.09	Inf	-Inf	77.36	3	Horizontal	322	1.18	-	28.50	3.23	-
PK	2.4838G	63.13	74.00	-10.87	31.39	3	Horizontal	322	1.18	-	28.50	3.24	-
AV	2.4835G	53.51	54.00	-0.49	21.77	3	Horizontal	322	1.18	-	28.50	3.24	-

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

2462MHz_TX

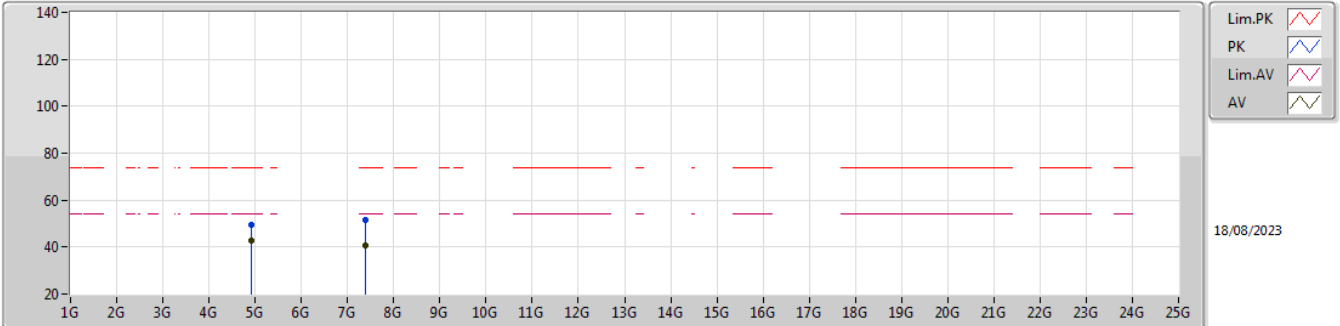


EUT_Z_1TX
Setting 55
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92404G	51.06	74.00	-22.94	42.76	3	Vertical	90	1.00	-	33.25	5.66	30.61
AV	4.92392G	46.10	54.00	-7.90	37.80	3	Vertical	90	1.00	-	33.25	5.66	30.61
PK	7.3862G	53.80	74.00	-20.20	42.45	3	Vertical	84	1.00	-	36.70	6.81	32.16
AV	7.38512G	46.43	54.00	-7.57	35.08	3	Vertical	84	1.00	-	36.70	6.81	32.16

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

2462MHz_TX

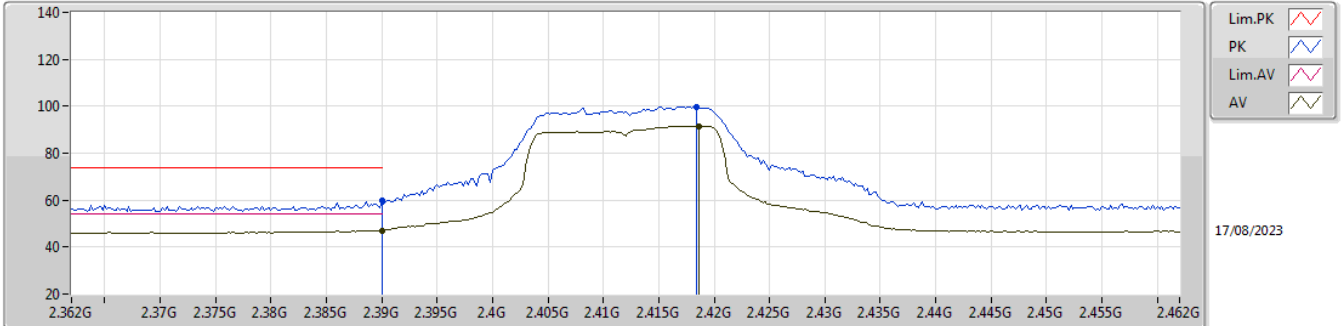


EUT_Z_1TX
Setting 55
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92409G	49.33	74.00	-24.67	41.03	3	Horizontal	275	1.25	-	33.25	5.66	30.61
AV	4.92394G	42.63	54.00	-11.37	34.33	3	Horizontal	275	1.25	-	33.25	5.66	30.61
PK	7.38459G	51.31	74.00	-22.69	39.96	3	Horizontal	293	1.12	-	36.70	6.81	32.16
AV	7.38465G	40.83	54.00	-13.17	29.48	3	Horizontal	293	1.12	-	36.70	6.81	32.16

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

2412MHz_TX

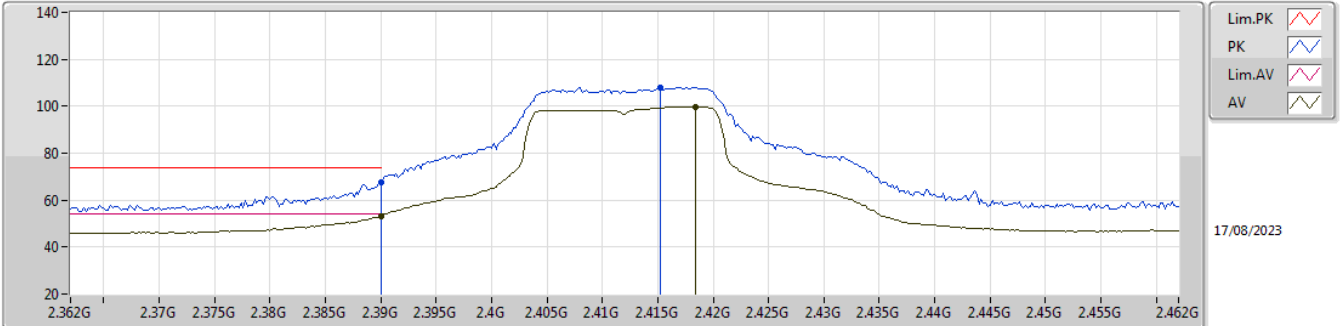


EUT_Z_1TX
Setting 53
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	59.60	74.00	-14.40	28.00	3	Vertical	312	2.20	-	28.40	3.20	-
AV	2.39G	47.14	54.00	-6.86	15.54	3	Vertical	312	2.20	-	28.40	3.20	-
PK	2.4184G	99.65	Inf	-Inf	68.04	3	Vertical	312	2.20	-	28.40	3.21	-
AV	2.4186G	91.60	Inf	-Inf	59.99	3	Vertical	312	2.20	-	28.40	3.21	-

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

2412MHz_TX

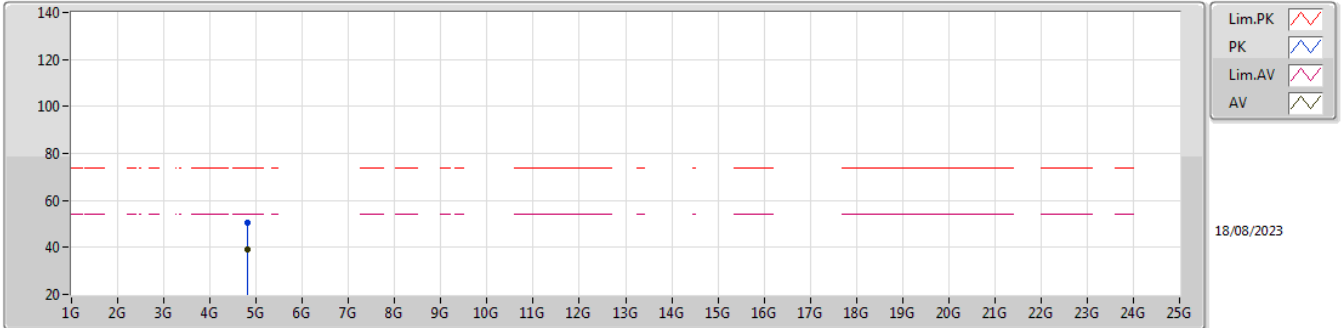


EUT_Z_1TX
Setting 53
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	67.78	74.00	-6.22	36.18	3	Horizontal	294	1.37	-	28.40	3.20	-
AV	2.39G	53.04	54.00	-0.96	21.44	3	Horizontal	294	1.37	-	28.40	3.20	-
PK	2.4152G	108.00	Inf	-Inf	76.39	3	Horizontal	294	1.37	-	28.40	3.21	-
AV	2.4184G	99.82	Inf	-Inf	68.21	3	Horizontal	294	1.37	-	28.40	3.21	-

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

2412MHz_TX

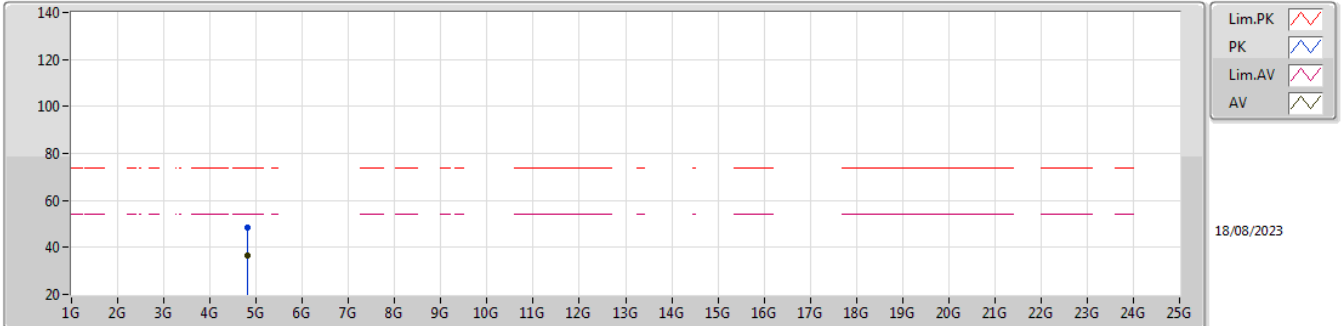


EUT_Z_1TX
Setting 53
02-H-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.82436G	50.72	74.00	-23.28	42.84	3	Vertical	180	1.52	-	32.95	5.61	30.68			
AV	4.82376G	38.95	54.00	-15.05	31.08	3	Vertical	180	1.52	-	32.94	5.61	30.68			

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

2412MHz_TX

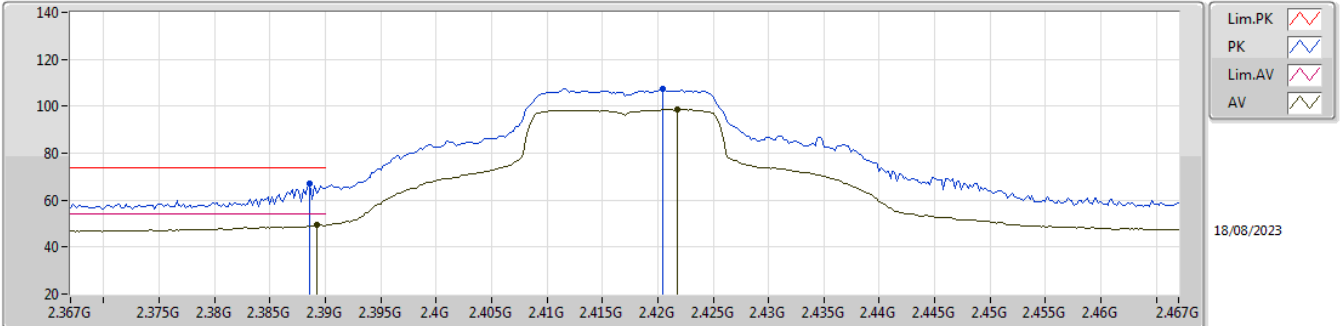


EUT_Z_1TX
Setting 53
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.81932G	48.42	74.00	-25.58	40.57	3	Horizontal	313	1.01	-	32.92	5.61	30.68
AV	4.82256G	36.71	54.00	-17.29	28.84	3	Horizontal	313	1.01	-	32.94	5.61	30.68

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

2417MHz_TX

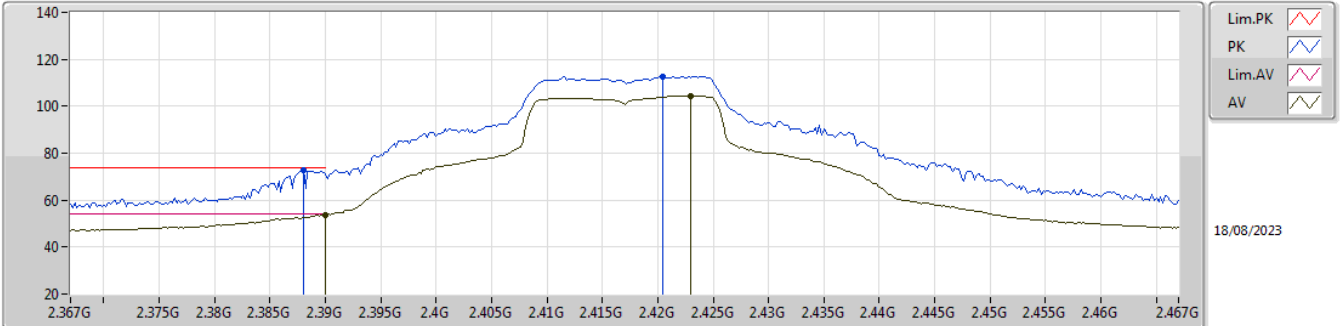


EUT_Z_1TX
Setting 62
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	67.05	74.00	-6.95	35.46	3	Vertical	314	2.75	-	28.40	3.19	-
AV	2.3892G	49.50	54.00	-4.50	17.91	3	Vertical	314	2.75	-	28.40	3.19	-
PK	2.4204G	107.32	Inf	-Inf	75.71	3	Vertical	314	2.75	-	28.40	3.21	-
AV	2.4218G	98.50	Inf	-Inf	66.87	3	Vertical	314	2.75	-	28.42	3.21	-

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

2417MHz_TX

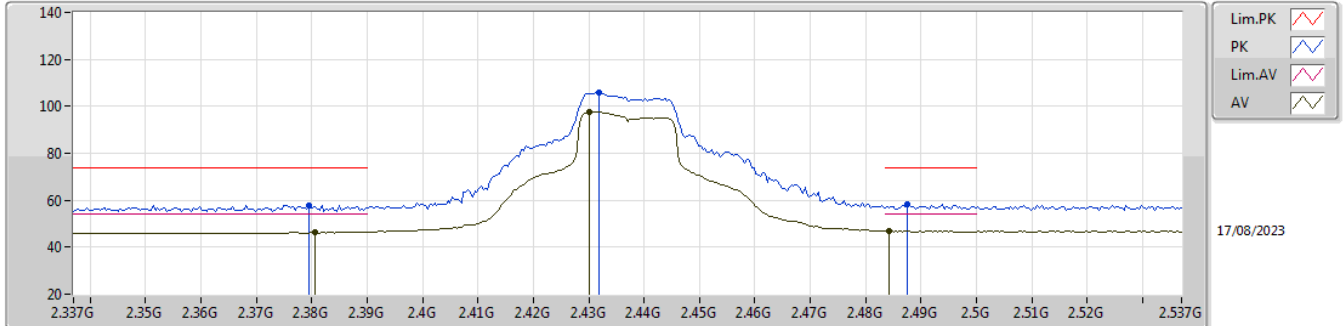


EUT_Z_1TX
Setting 62
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	72.59	74.00	-1.41	41.00	3	Horizontal	332	2.21	-	28.40	3.19	-
AV	2.39G	53.83	54.00	-0.17	22.23	3	Horizontal	332	2.21	-	28.40	3.20	-
PK	2.4204G	112.79	Inf	-Inf	81.18	3	Horizontal	332	2.21	-	28.40	3.21	-
AV	2.423G	104.45	Inf	-Inf	72.81	3	Horizontal	332	2.21	-	28.43	3.21	-

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

2437MHz_TX

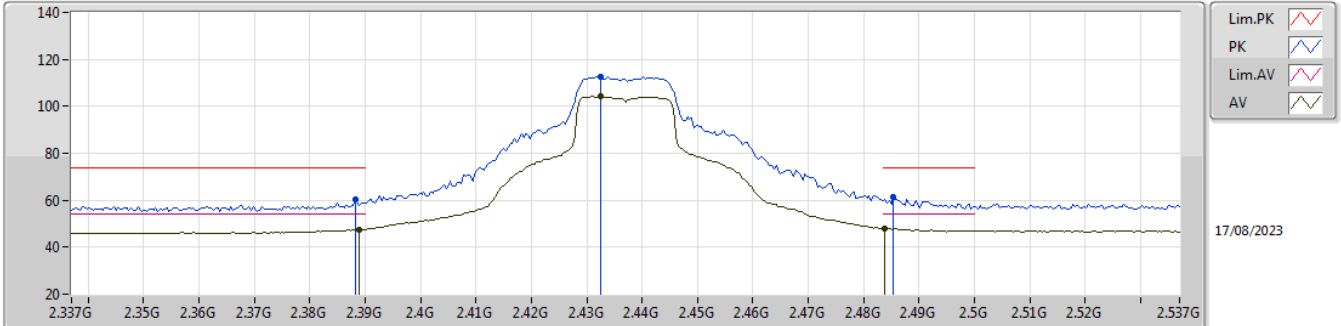


EUT_Z_1TX
Setting 63
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3794G	57.74	74.00	-16.26	26.16	3	Vertical	270	2.77	-	28.39	3.19	-
AV	2.3806G	46.40	54.00	-7.60	14.81	3	Vertical	270	2.77	-	28.40	3.19	-
PK	2.4318G	105.70	Inf	-Inf	74.00	3	Vertical	270	2.77	-	28.48	3.22	-
AV	2.4302G	97.57	Inf	-Inf	65.85	3	Vertical	270	2.77	-	28.50	3.22	-
PK	2.4874G	58.53	74.00	-15.47	26.79	3	Vertical	270	2.77	-	28.50	3.24	-
AV	2.4842G	46.99	54.00	-7.01	15.25	3	Vertical	270	2.77	-	28.50	3.24	-

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

2437MHz_TX

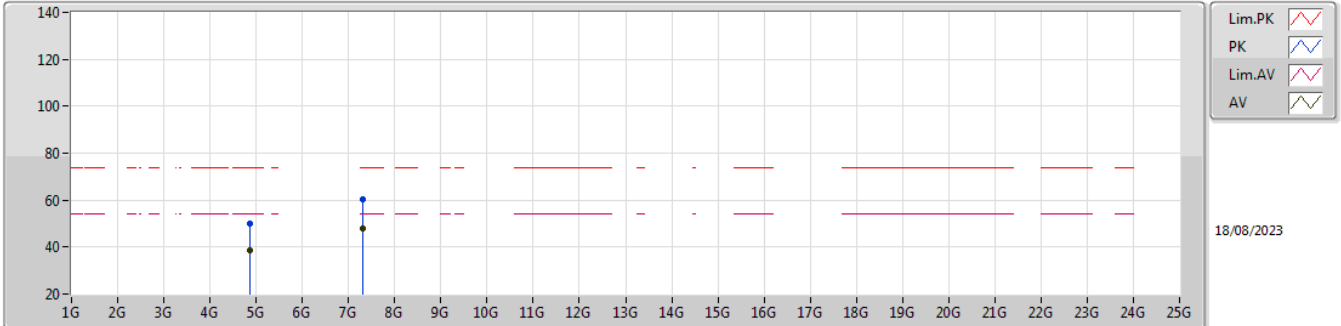


EUT_Z_1TX
Setting 63
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	60.33	74.00	-13.67	28.74	3	Horizontal	325	1.23	-	28.40	3.19	-
AV	2.389G	47.58	54.00	-6.42	15.99	3	Horizontal	325	1.23	-	28.40	3.19	-
PK	2.4326G	112.72	Inf	-Inf	81.03	3	Horizontal	325	1.23	-	28.47	3.22	-
AV	2.4326G	104.13	Inf	-Inf	72.44	3	Horizontal	325	1.23	-	28.47	3.22	-
PK	2.4854G	61.33	74.00	-12.67	29.59	3	Horizontal	325	1.23	-	28.50	3.24	-
AV	2.4838G	48.18	54.00	-5.82	16.44	3	Horizontal	325	1.23	-	28.50	3.24	-

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

2437MHz_TX

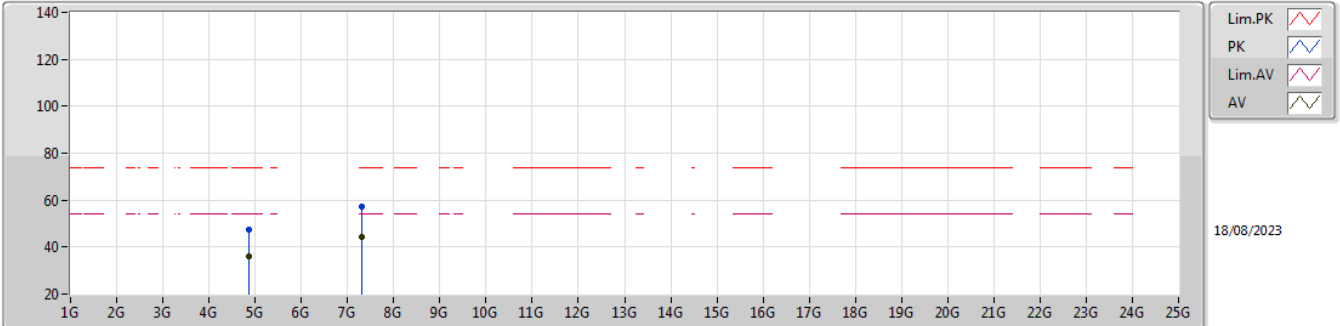


EUT_Z_1TX
Setting 63
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8737G	50.23	74.00	-23.77	42.08	3	Vertical	153	1.27	-	33.15	5.64	30.64
AV	4.87286G	38.47	54.00	-15.53	30.32	3	Vertical	153	1.27	-	33.15	5.64	30.64
PK	7.31586G	60.41	74.00	-13.59	49.06	3	Vertical	86	1.02	-	36.63	6.84	32.12
AV	7.30656G	47.69	54.00	-6.31	36.34	3	Vertical	86	1.02	-	36.61	6.85	32.11

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

2437MHz_TX

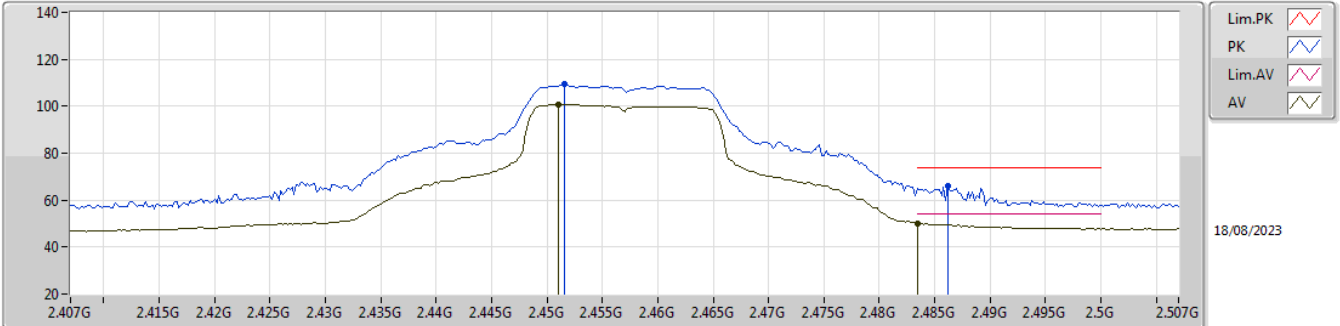


EUT_Z_1TX
Setting 63
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.86632G	47.49	74.00	-26.51	39.38	3	Horizontal	127	1.00	-	33.13	5.63	30.65
AV	4.87256G	35.82	54.00	-18.18	27.67	3	Horizontal	127	1.00	-	33.15	5.64	30.64
PK	7.30956G	57.10	74.00	-16.90	45.74	3	Horizontal	256	1.11	-	36.62	6.85	32.11
AV	7.31106G	44.55	54.00	-9.45	33.20	3	Horizontal	256	1.11	-	36.62	6.84	32.11

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

2457MHz_TX

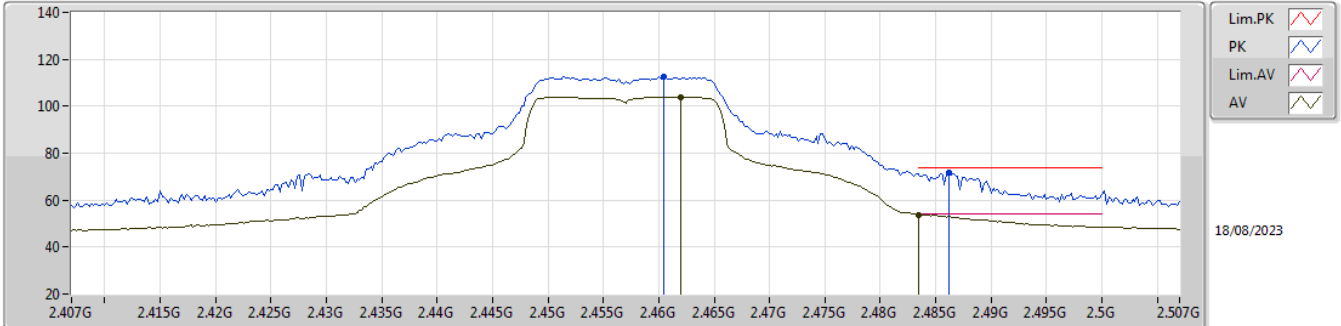


EUT_Z_1TX
Setting 59
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4516G	109.45	Inf	-Inf	77.80	3	Vertical	270	2.69	-	28.42	3.23	-
AV	2.451G	100.65	Inf	-Inf	69.01	3	Vertical	270	2.69	-	28.41	3.23	-
PK	2.4862G	65.97	74.00	-8.03	34.23	3	Vertical	270	2.69	-	28.50	3.24	-
AV	2.4835G	50.10	54.00	-3.90	18.36	3	Vertical	270	2.69	-	28.50	3.24	-

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

2457MHz_TX

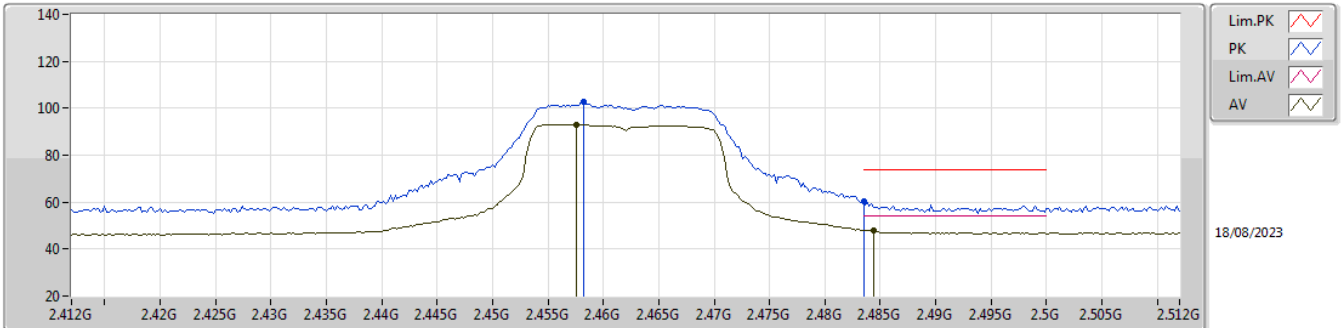


EUT_Z_1TX
Setting 59
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4604G	112.68	Inf	-Inf	80.95	3	Horizontal	323	1.18	-	28.50	3.23	-
AV	2.462G	104.05	Inf	-Inf	72.32	3	Horizontal	323	1.18	-	28.50	3.23	-
PK	2.4862G	71.53	74.00	-2.47	39.79	3	Horizontal	323	1.18	-	28.50	3.24	-
AV	2.4835G	53.81	54.00	-0.19	22.07	3	Horizontal	323	1.18	-	28.50	3.24	-

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

2462MHz_TX

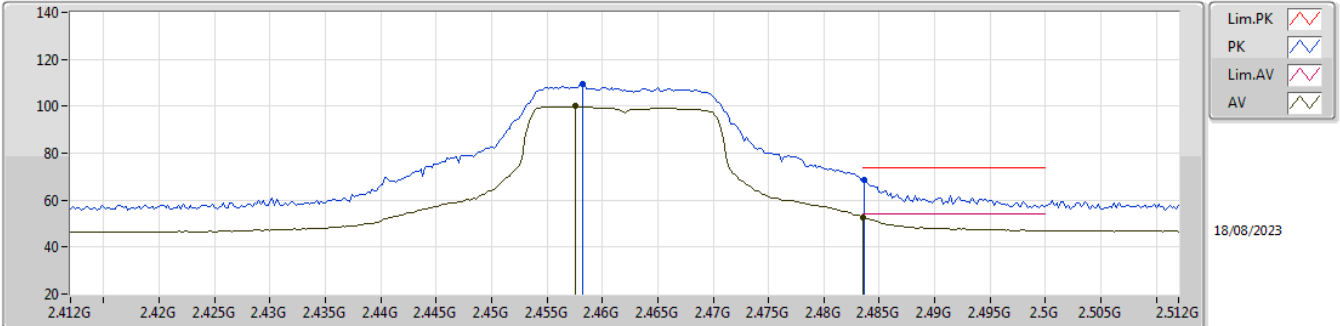


EUT_Z_1TX
Setting 63
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4582G	102.86	Inf	-Inf	71.15	3	Vertical	269	2.73	-	28.48	3.23	-
AV	2.4576G	93.14	Inf	-Inf	61.43	3	Vertical	269	2.73	-	28.48	3.23	-
PK	2.4835G	60.24	74.00	-13.76	28.50	3	Vertical	269	2.73	-	28.50	3.24	-
AV	2.4844G	47.73	54.00	-6.27	15.99	3	Vertical	269	2.73	-	28.50	3.24	-

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

2462MHz_TX

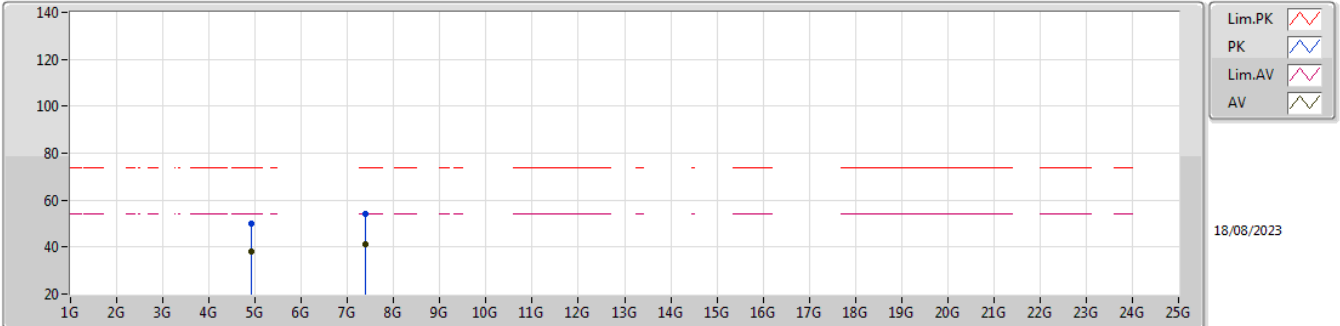


EUT_Z_1TX
Setting 52
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4582G	109.70	Inf	-Inf	77.99	3	Horizontal	322	1.17	-	28.48	3.23	-
AV	2.4576G	99.92	Inf	-Inf	68.21	3	Horizontal	322	1.17	-	28.48	3.23	-
PK	2.4836G	68.73	74.00	-5.27	36.99	3	Horizontal	322	1.17	-	28.50	3.24	-
AV	2.4835G	52.48	54.00	-1.52	20.74	3	Horizontal	322	1.17	-	28.50	3.24	-

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

2462MHz_TX

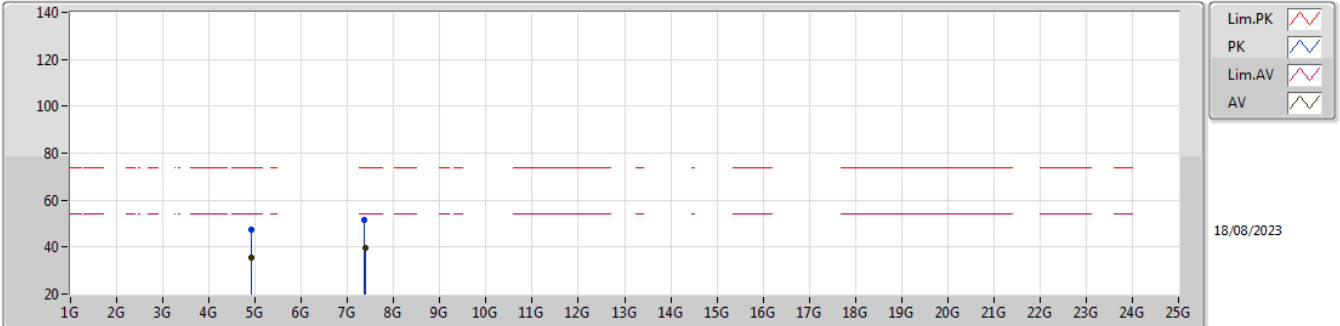


EUT_Z_1TX
Setting 52
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91938G	49.80	74.00	-24.20	41.51	3	Vertical	87	1.00	-	33.24	5.66	30.61
AV	4.92346G	38.15	54.00	-15.85	29.85	3	Vertical	87	1.00	-	33.25	5.66	30.61
PK	7.38012G	54.04	74.00	-19.96	42.68	3	Vertical	83	1.00	-	36.70	6.81	32.15
AV	7.38522G	41.00	54.00	-13.00	29.65	3	Vertical	83	1.00	-	36.70	6.81	32.16

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

2462MHz_TX

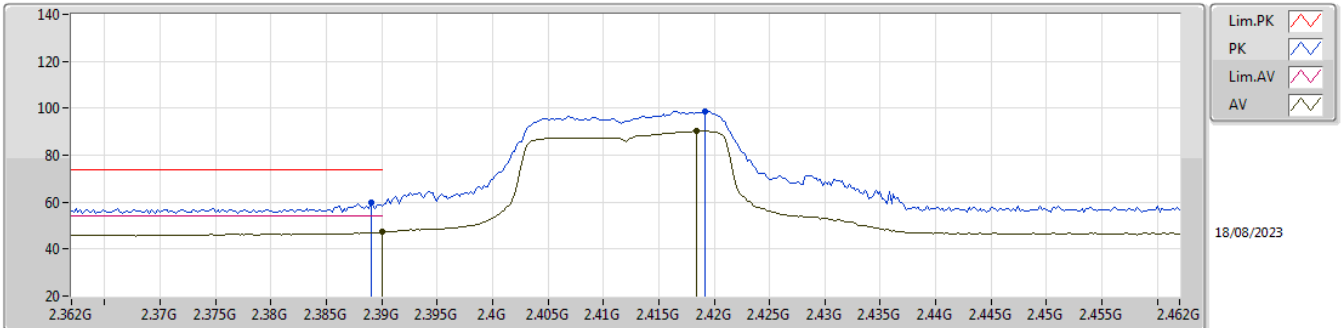


EUT_Z_1TX
Setting 52
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9288G	47.54	74.00	-26.46	39.23	3	Horizontal	87	1.80	-	33.26	5.66	30.61
AV	4.92346G	35.70	54.00	-18.30	27.40	3	Horizontal	87	1.80	-	33.25	5.66	30.61
PK	7.37298G	51.45	74.00	-22.55	40.09	3	Horizontal	294	1.12	-	36.70	6.81	32.15
AV	7.38936G	39.41	54.00	-14.59	28.06	3	Horizontal	294	1.12	-	36.70	6.81	32.16

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2412MHz_TX

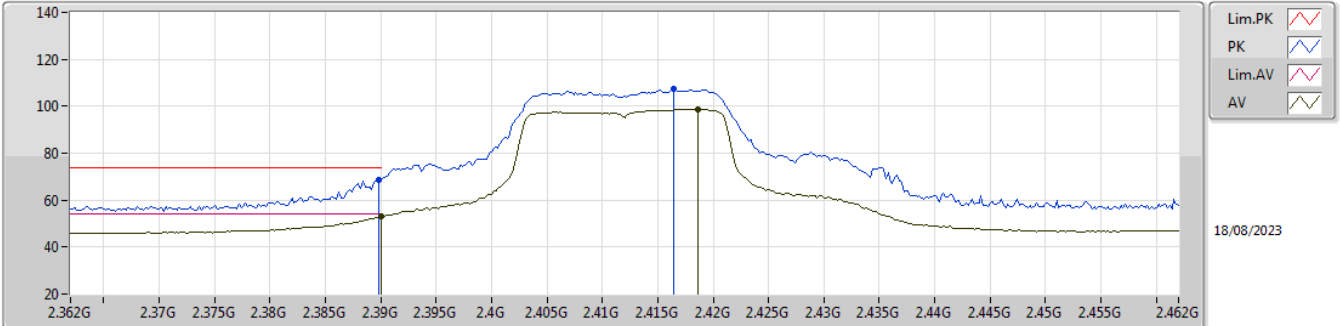


EUT_Z_1TX
Setting 51
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	59.70	74.00	-14.30	28.11	3	Vertical	312	2.21	-	28.40	3.19	-
AV	2.39G	47.37	54.00	-6.63	15.77	3	Vertical	312	2.21	-	28.40	3.20	-
PK	2.4192G	98.53	Inf	-Inf	66.92	3	Vertical	312	2.21	-	28.40	3.21	-
AV	2.4184G	90.26	Inf	-Inf	58.65	3	Vertical	312	2.21	-	28.40	3.21	-

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2412MHz_TX

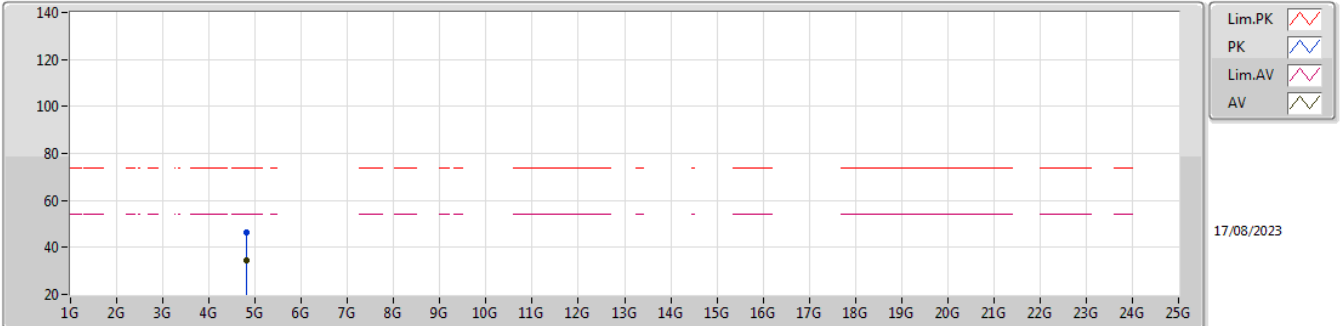


EUT_Z_1TX
Setting 51
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	68.44	74.00	-5.56	36.85	3	Horizontal	294	1.38	-	28.40	3.19	-
AV	2.39G	53.04	54.00	-0.96	21.44	3	Horizontal	294	1.38	-	28.40	3.20	-
PK	2.4164G	107.38	Inf	-Inf	75.77	3	Horizontal	294	1.38	-	28.40	3.21	-
AV	2.4186G	98.72	Inf	-Inf	67.11	3	Horizontal	294	1.38	-	28.40	3.21	-

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2412MHz_TX

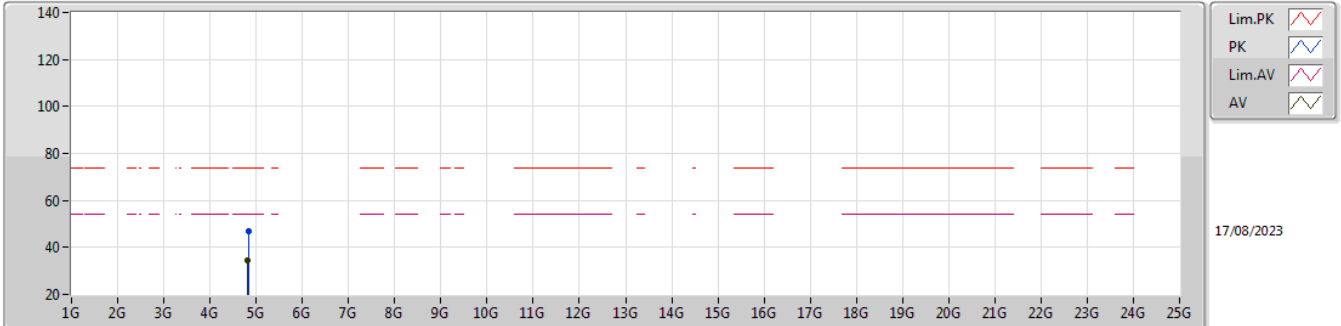


EUT_Z_1TX
Setting 51
02-H-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.82116G	46.63	74.00	-27.37	38.77	3	Vertical	330	2.39	-	32.93	5.61	30.68			
AV	4.82402G	34.66	54.00	-19.34	26.79	3	Vertical	330	2.39	-	32.94	5.61	30.68			

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2412MHz_TX

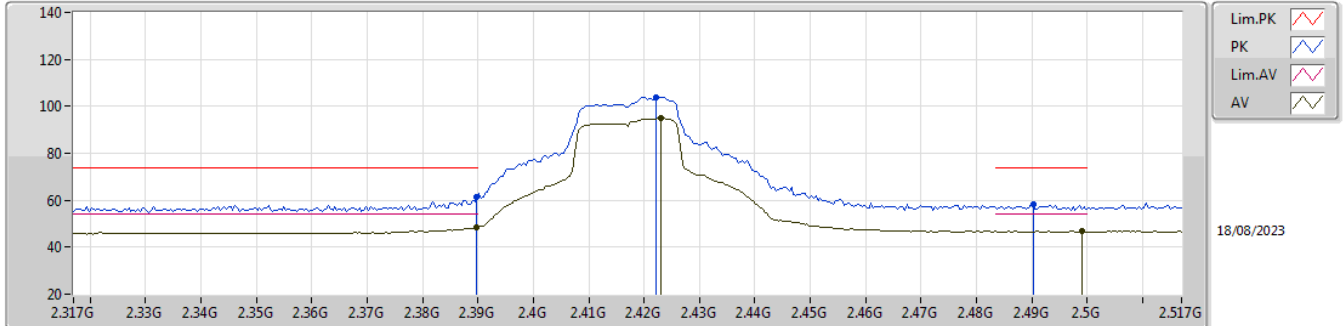


EUT_Z_1TX
 Setting 51
 02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82654G	46.92	74.00	-27.08	39.02	3	Horizontal	339	2.71	-	32.96	5.61	30.67
AV	4.823G	34.48	54.00	-19.52	26.61	3	Horizontal	339	2.71	-	32.94	5.61	30.68

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2417MHz_TX

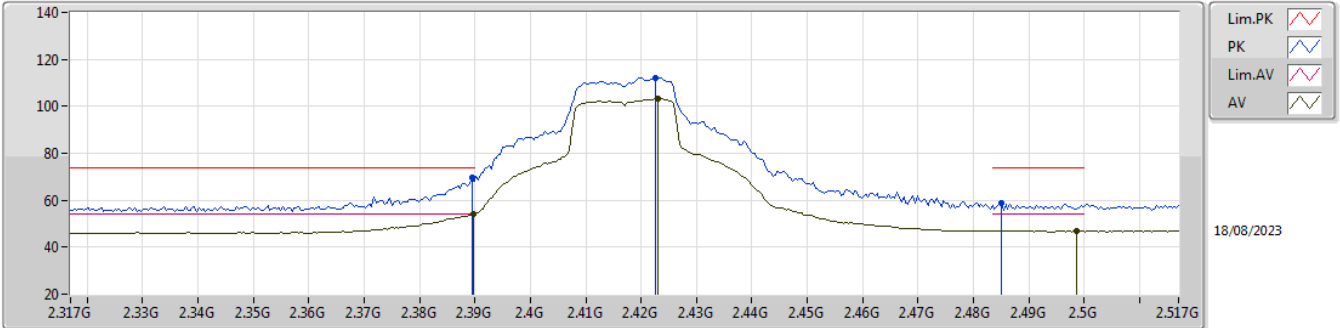


EUT_Z_1TX
Setting 62
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	61.62	74.00	-12.38	30.03	3	Vertical	313	2.22	-	28.40	3.19	-
AV	2.3898G	48.63	54.00	-5.37	17.04	3	Vertical	313	2.22	-	28.40	3.19	-
PK	2.4222G	103.94	Inf	-Inf	72.31	3	Vertical	313	2.22	-	28.42	3.21	-
AV	2.423G	94.83	Inf	-Inf	63.19	3	Vertical	313	2.22	-	28.43	3.21	-
PK	2.4902G	58.04	74.00	-15.96	26.29	3	Vertical	313	2.22	-	28.50	3.25	-
AV	2.499G	46.77	54.00	-7.23	14.93	3	Vertical	313	2.22	-	28.59	3.25	-

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2417MHz_TX

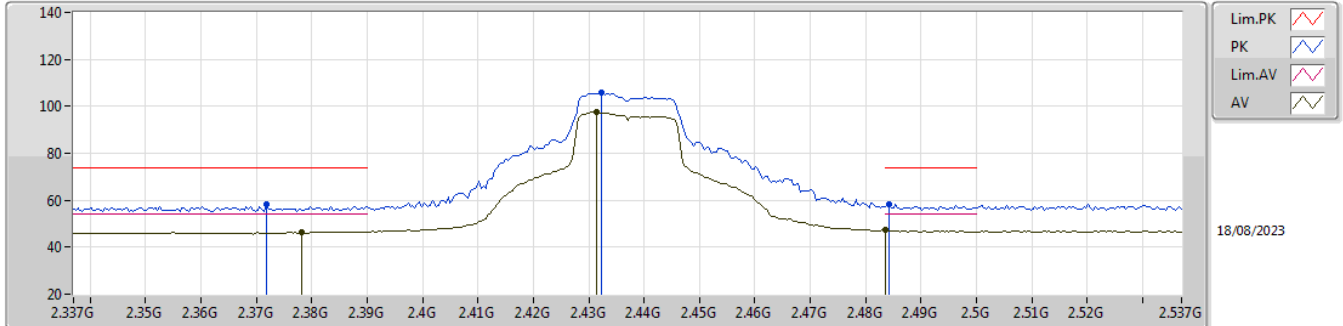


EUT_Z_1TX
Setting 62
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	69.60	74.00	-4.40	38.01	3	Horizontal	294	1.35	-	28.40	3.19	-
AV	2.3898G	53.93	54.00	-0.07	22.34	3	Horizontal	294	1.35	-	28.40	3.19	-
PK	2.4226G	112.21	Inf	-Inf	80.57	3	Horizontal	294	1.35	-	28.43	3.21	-
AV	2.423G	103.15	Inf	-Inf	71.51	3	Horizontal	294	1.35	-	28.43	3.21	-
PK	2.485G	58.93	74.00	-15.07	27.19	3	Horizontal	294	1.35	-	28.50	3.24	-
AV	2.4986G	47.04	54.00	-6.96	15.20	3	Horizontal	294	1.35	-	28.59	3.25	-

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2437MHz_TX

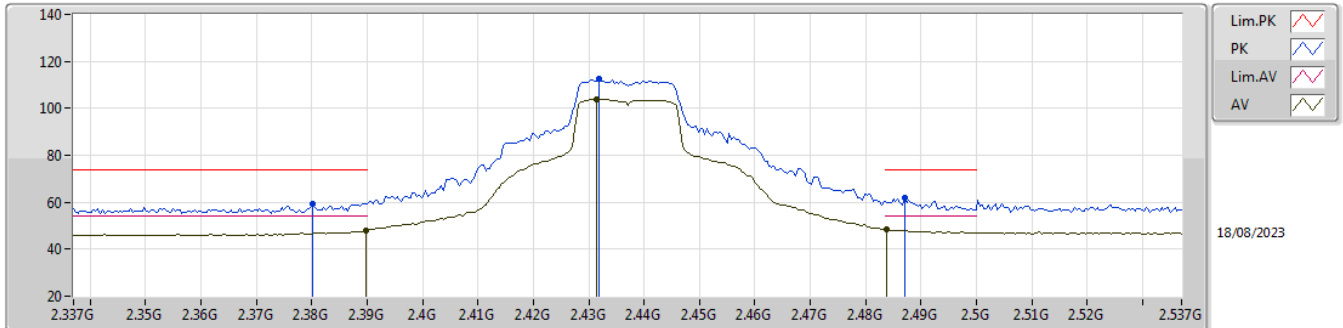


EUT_Z_1TX
Setting 63
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3718G	58.05	74.00	-15.95	26.54	3	Vertical	270	2.78	-	28.32	3.19	-
AV	2.3782G	46.40	54.00	-7.60	14.83	3	Vertical	270	2.78	-	28.38	3.19	-
PK	2.4322G	106.02	Inf	-Inf	74.32	3	Vertical	270	2.78	-	28.48	3.22	-
AV	2.4314G	97.40	Inf	-Inf	65.69	3	Vertical	270	2.78	-	28.49	3.22	-
PK	2.4842G	58.19	74.00	-15.81	26.45	3	Vertical	270	2.78	-	28.50	3.24	-
AV	2.4835G	47.24	54.00	-6.76	15.50	3	Vertical	270	2.78	-	28.50	3.24	-

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

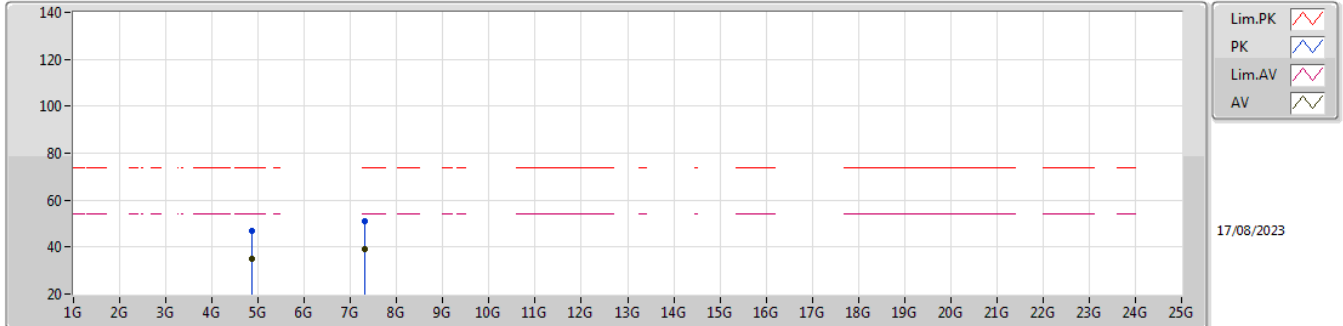


EUT_Z_1TX
Setting 63
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3802G	59.55	74.00	-14.45	27.96	3	Horizontal	325	1.22	-	28.40	3.19	-
AV	2.3898G	47.80	54.00	-6.20	16.21	3	Horizontal	325	1.22	-	28.40	3.19	-
PK	2.4318G	112.40	Inf	-Inf	80.70	3	Horizontal	325	1.22	-	28.48	3.22	-
AV	2.4314G	103.95	Inf	-Inf	72.24	3	Horizontal	325	1.22	-	28.49	3.22	-
PK	2.487G	61.66	74.00	-12.34	29.92	3	Horizontal	325	1.22	-	28.50	3.24	-
AV	2.4838G	48.40	54.00	-5.60	16.66	3	Horizontal	325	1.22	-	28.50	3.24	-

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2437MHz_TX

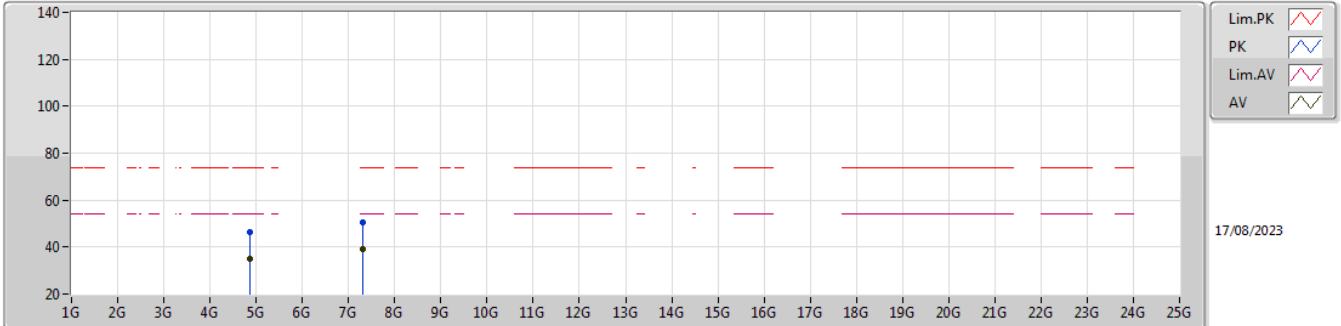


EUT_Z_1TX
Setting 63
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87556G	46.86	74.00	-27.14	38.71	3	Vertical	32	2.69	-	33.15	5.64	30.64
AV	4.8742G	35.01	54.00	-18.99	26.86	3	Vertical	32	2.69	-	33.15	5.64	30.64
PK	7.30654G	51.10	74.00	-22.90	39.75	3	Vertical	50	1.93	-	36.61	6.85	32.11
AV	7.30882G	39.01	54.00	-14.99	27.65	3	Vertical	50	1.93	-	36.62	6.85	32.11

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2437MHz_TX

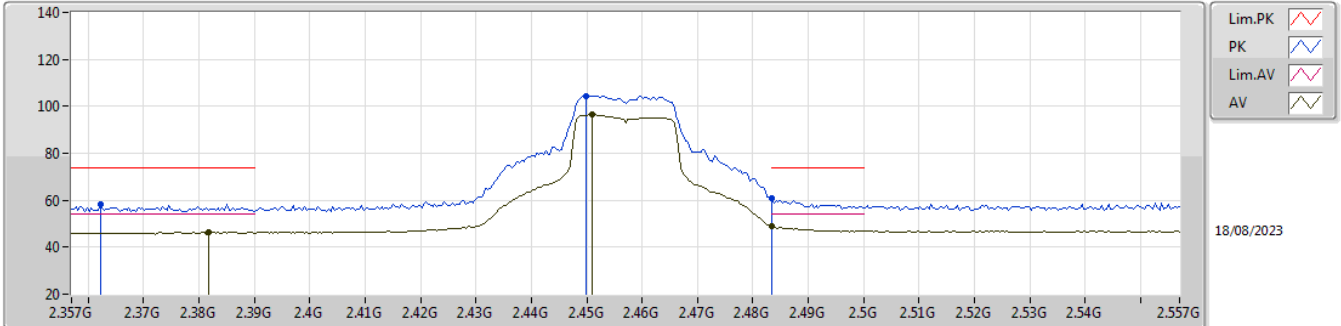


EUT_Z_1TX
Setting 63
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87522G	46.39	74.00	-27.61	38.24	3	Horizontal	278	2.98	-	33.15	5.64	30.64
AV	4.87434G	35.11	54.00	-18.89	26.96	3	Horizontal	278	2.98	-	33.15	5.64	30.64
PK	7.31544G	50.57	74.00	-23.43	39.22	3	Horizontal	170	2.16	-	36.63	6.84	32.12
AV	7.3114G	38.91	54.00	-15.09	27.56	3	Horizontal	170	2.16	-	36.62	6.84	32.11

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2457MHz_TX

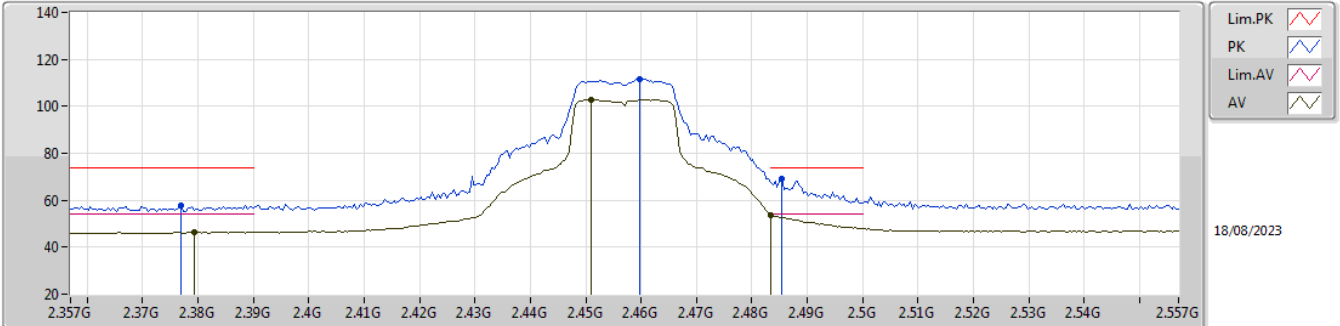


EUT_Z_1TX
Setting 59
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3622G	58.44	74.00	-15.56	27.04	3	Vertical	270	2.71	-	28.22	3.18	-
AV	2.3818G	46.40	54.00	-7.60	14.81	3	Vertical	270	2.71	-	28.40	3.19	-
PK	2.4498G	104.50	Inf	-Inf	72.88	3	Vertical	270	2.71	-	28.40	3.22	-
AV	2.451G	96.43	Inf	-Inf	64.79	3	Vertical	270	2.71	-	28.41	3.23	-
PK	2.4835G	61.03	74.00	-12.97	29.29	3	Vertical	270	2.71	-	28.50	3.24	-
AV	2.4835G	48.82	54.00	-5.18	17.08	3	Vertical	270	2.71	-	28.50	3.24	-

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2457MHz_TX

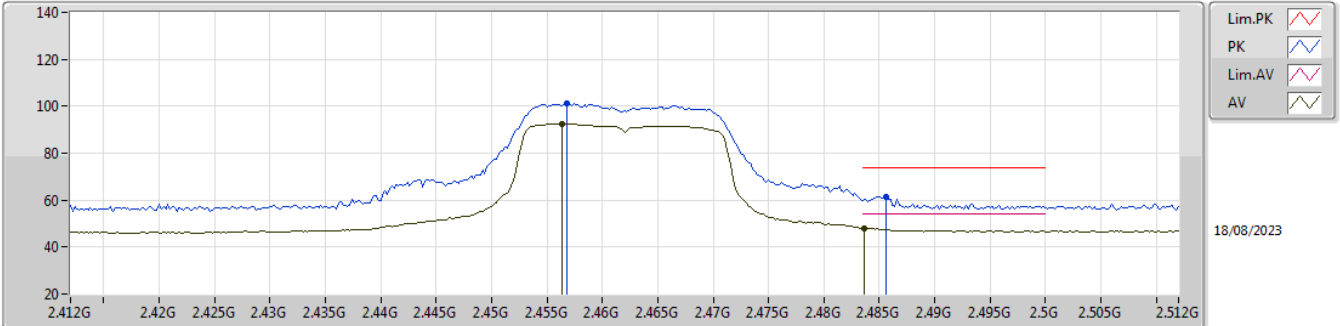


EUT_Z_1TX
Setting 59
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.377G	58.00	74.00	-16.00	26.44	3	Horizontal	323	1.17	-	28.37	3.19	-
AV	2.3794G	46.40	54.00	-7.60	14.82	3	Horizontal	323	1.17	-	28.39	3.19	-
PK	2.4598G	111.74	Inf	-Inf	80.01	3	Horizontal	323	1.17	-	28.50	3.23	-
AV	2.451G	102.77	Inf	-Inf	71.13	3	Horizontal	323	1.17	-	28.41	3.23	-
PK	2.4854G	68.91	74.00	-5.09	37.17	3	Horizontal	323	1.17	-	28.50	3.24	-
AV	2.4835G	53.86	54.00	-0.14	22.12	3	Horizontal	323	1.17	-	28.50	3.24	-

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2462MHz_TX

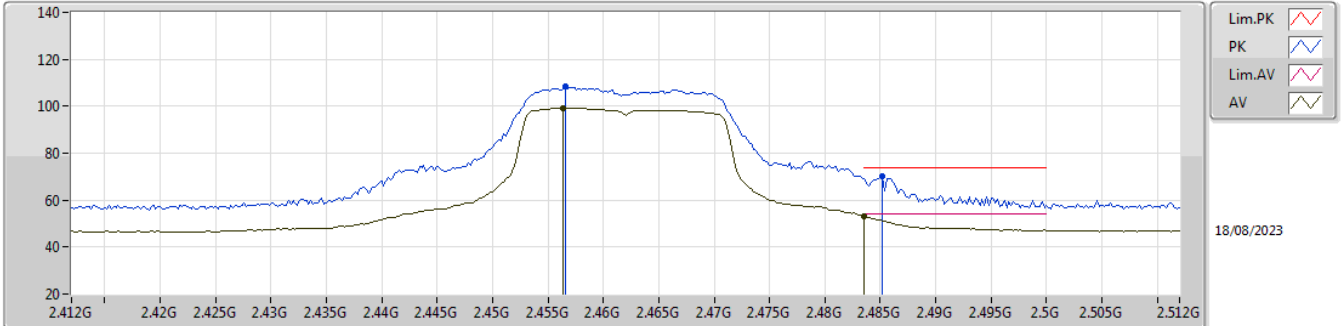


EUT_Z_1TX
Setting 50
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4568G	101.38	Inf	-Inf	69.68	3	Vertical	269	2.72	-	28.47	3.23	-
AV	2.4564G	92.47	Inf	-Inf	60.78	3	Vertical	269	2.72	-	28.46	3.23	-
PK	2.4856G	61.57	74.00	-12.43	29.83	3	Vertical	269	2.72	-	28.50	3.24	-
AV	2.4836G	48.18	54.00	-5.82	16.44	3	Vertical	269	2.72	-	28.50	3.24	-

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2462MHz_TX

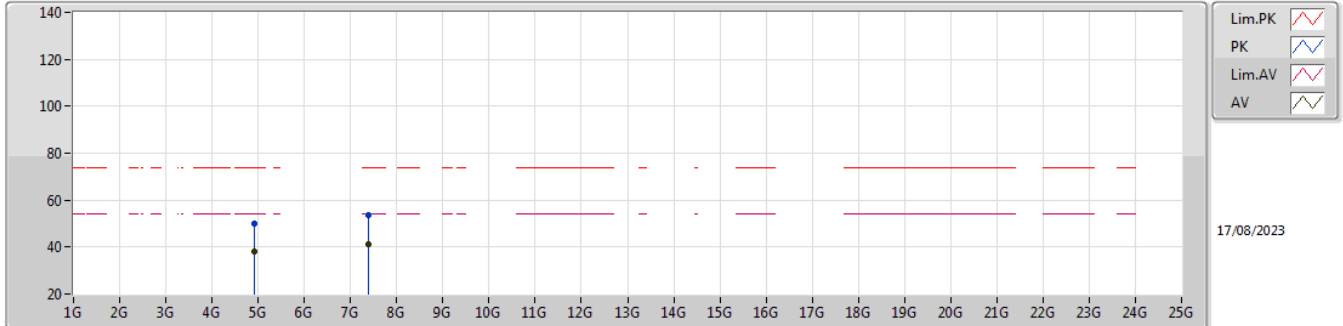


EUT_Z_1TX
Setting 50
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4566G	108.22	Inf	-Inf	76.52	3	Horizontal	323	1.16	-	28.47	3.23	-
AV	2.4564G	99.23	Inf	-Inf	67.54	3	Horizontal	323	1.16	-	28.46	3.23	-
PK	2.4852G	70.23	74.00	-3.77	38.49	3	Horizontal	323	1.16	-	28.50	3.24	-
AV	2.4835G	53.01	54.00	-0.99	21.27	3	Horizontal	323	1.16	-	28.50	3.24	-

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2462MHz_TX

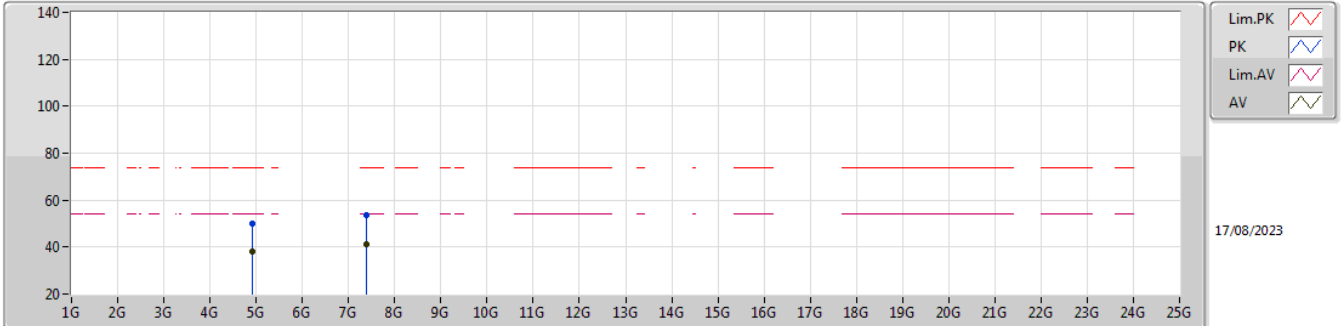


EUT_Z_1TX
Setting 50
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92444G	49.90	74.00	-24.10	41.60	3	Vertical	297	2.54	-	33.25	5.66	30.61
AV	4.92332G	38.01	54.00	-15.99	29.71	3	Vertical	297	2.54	-	33.25	5.66	30.61
PK	7.38134G	53.40	74.00	-20.60	42.04	3	Vertical	226	1.11	-	36.70	6.81	32.15
AV	7.381G	41.17	54.00	-12.83	29.81	3	Vertical	226	1.11	-	36.70	6.81	32.15

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2462MHz_TX

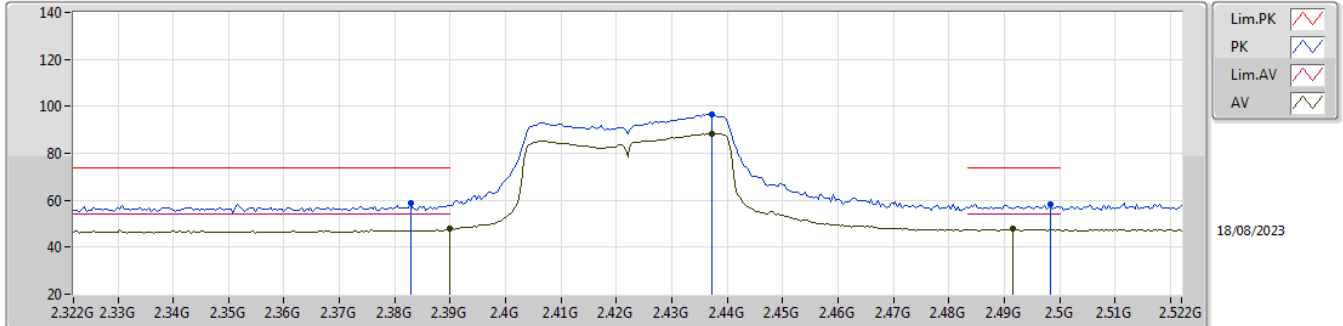


EUT_Z_1TX
Setting 50
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92588G	50.00	74.00	-24.00	41.70	3	Horizontal	13	2.13	-	33.25	5.66	30.61
AV	4.92356G	38.22	54.00	-15.78	29.92	3	Horizontal	13	2.13	-	33.25	5.66	30.61
PK	7.38168G	53.53	74.00	-20.47	42.17	3	Horizontal	260	1.42	-	36.70	6.81	32.15
AV	7.38106G	41.12	54.00	-12.88	29.76	3	Horizontal	260	1.42	-	36.70	6.81	32.15

2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

2422MHz_TX

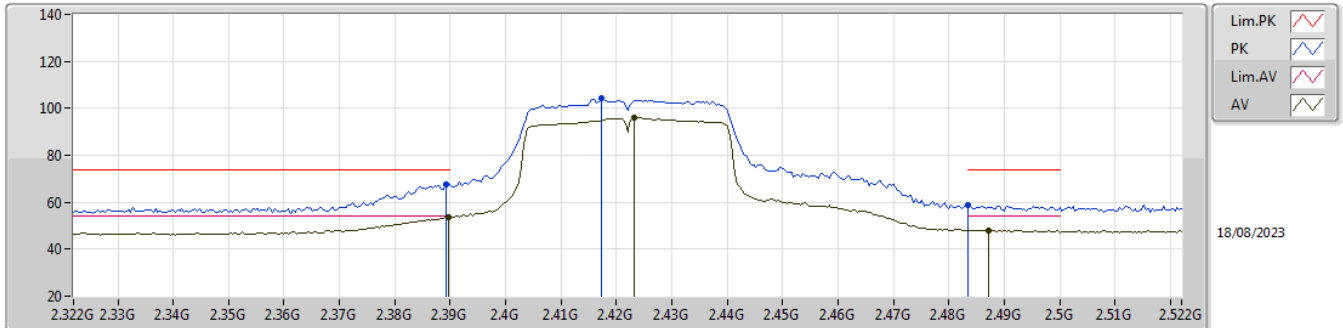


EUT_Z_1TX
Setting 50
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3828G	58.59	74.00	-15.41	27.00	3	Vertical	311	2.70	-	28.40	3.19	-
AV	2.39G	48.03	54.00	-5.97	16.43	3	Vertical	311	2.70	-	28.40	3.20	-
PK	2.4372G	96.80	Inf	-Inf	65.15	3	Vertical	311	2.70	-	28.43	3.22	-
AV	2.4372G	88.34	Inf	-Inf	56.69	3	Vertical	311	2.70	-	28.43	3.22	-
PK	2.4984G	58.44	74.00	-15.56	26.61	3	Vertical	311	2.70	-	28.58	3.25	-
AV	2.4916G	47.73	54.00	-6.27	15.96	3	Vertical	311	2.70	-	28.52	3.25	-

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

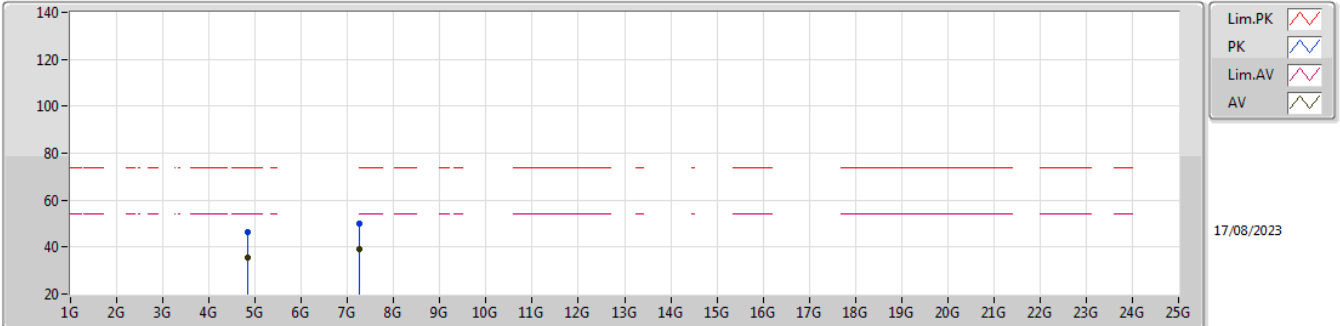


EUT_Z_1TX
Setting 50
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	67.52	74.00	-6.48	35.93	3	Horizontal	332	1.37	-	28.40	3.19	-
AV	2.3896G	53.82	54.00	-0.18	22.23	3	Horizontal	332	1.37	-	28.40	3.19	-
PK	2.4172G	104.39	Inf	-Inf	72.78	3	Horizontal	332	1.37	-	28.40	3.21	-
AV	2.4232G	95.98	Inf	-Inf	64.34	3	Horizontal	332	1.37	-	28.43	3.21	-
PK	2.4835G	58.99	74.00	-15.01	27.25	3	Horizontal	332	1.37	-	28.50	3.24	-
AV	2.4872G	48.17	54.00	-5.83	16.43	3	Horizontal	332	1.37	-	28.50	3.24	-

2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

2422MHz_TX

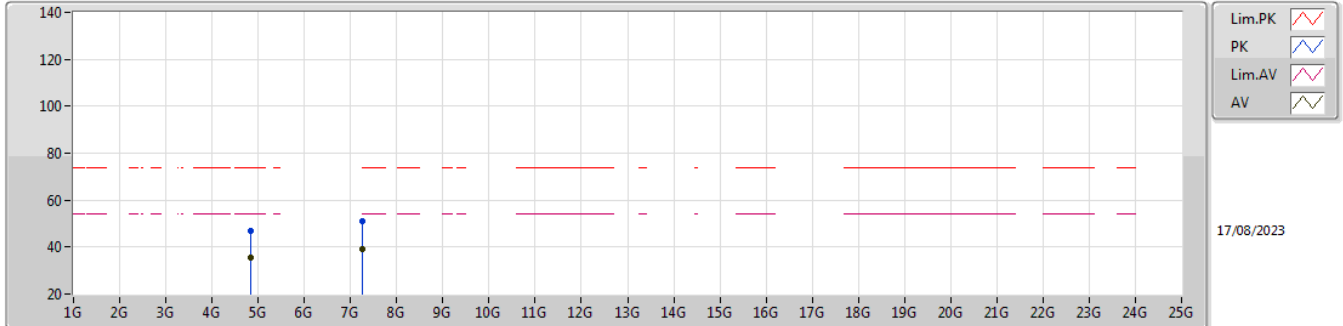


EUT_Z_1TX
Setting 50
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84366G	46.43	74.00	-27.57	38.41	3	Vertical	60	1.65	-	33.06	5.62	30.66
AV	4.84586G	35.31	54.00	-18.69	27.27	3	Vertical	60	1.65	-	33.08	5.62	30.66
PK	7.26332G	50.25	74.00	-23.75	39.02	3	Vertical	339	1.89	-	36.45	6.87	32.09
AV	7.26756G	39.15	54.00	-14.85	27.90	3	Vertical	339	1.89	-	36.47	6.87	32.09

2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

2422MHz_TX

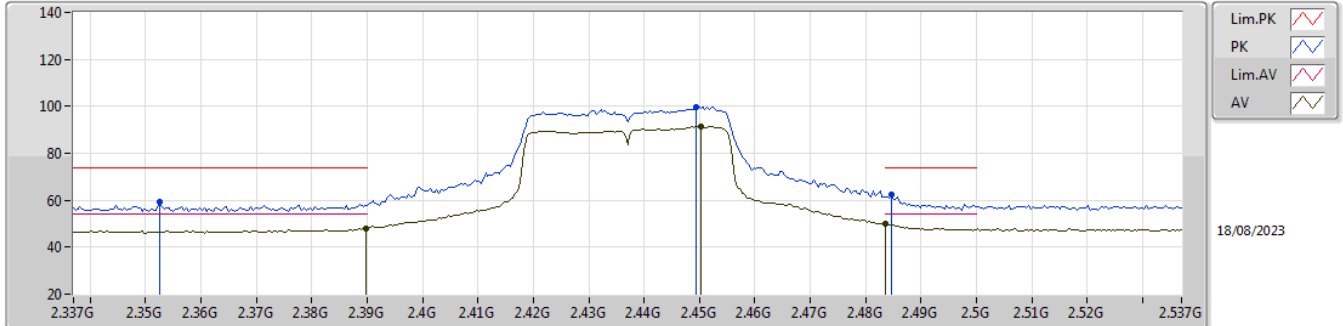


EUT_Z_1TX
Setting 50
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84546G	46.92	74.00	-27.08	38.89	3	Horizontal	139	2.42	-	33.07	5.62	30.66
AV	4.84594G	35.40	54.00	-18.60	27.36	3	Horizontal	139	2.42	-	33.08	5.62	30.66
PK	7.26508G	51.27	74.00	-22.73	40.03	3	Horizontal	317	1.49	-	36.46	6.87	32.09
AV	7.2694G	39.09	54.00	-14.91	27.83	3	Horizontal	317	1.49	-	36.48	6.87	32.09

2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

2437MHz_TX

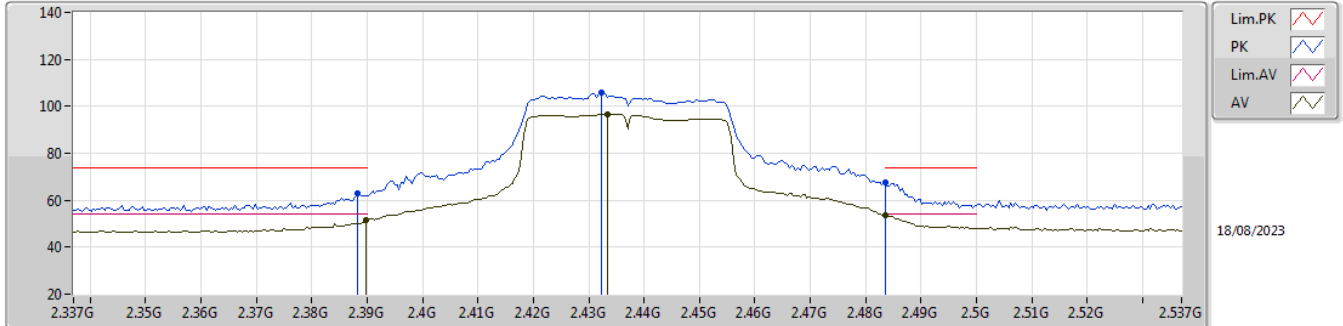


EUT_Z_1TX
Setting 53
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3526G	59.07	74.00	-14.93	27.69	3	Vertical	270	2.71	-	28.20	3.18	-
AV	2.3898G	48.02	54.00	-5.98	16.43	3	Vertical	270	2.71	-	28.40	3.19	-
PK	2.4494G	99.75	Inf	-Inf	68.13	3	Vertical	270	2.71	-	28.40	3.22	-
AV	2.4502G	91.30	Inf	-Inf	59.67	3	Vertical	270	2.71	-	28.40	3.23	-
PK	2.4846G	62.21	74.00	-11.79	30.47	3	Vertical	270	2.71	-	28.50	3.24	-
AV	2.4835G	49.98	54.00	-4.02	18.24	3	Vertical	270	2.71	-	28.50	3.24	-

2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

2437MHz_TX

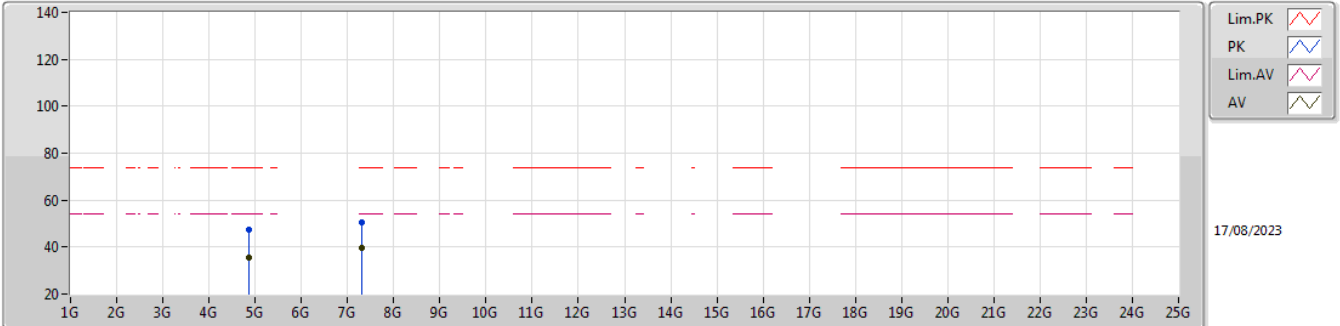


EUT_Z_1TX
Setting 53
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	62.92	74.00	-11.08	31.33	3	Horizontal	290	1.00	-	28.40	3.19	-
AV	2.3898G	51.47	54.00	-2.53	19.88	3	Horizontal	290	1.00	-	28.40	3.19	-
PK	2.4322G	105.98	Inf	-Inf	74.28	3	Horizontal	290	1.00	-	28.48	3.22	-
AV	2.4334G	96.71	Inf	-Inf	65.02	3	Horizontal	290	1.00	-	28.47	3.22	-
PK	2.4835G	67.35	74.00	-6.65	35.61	3	Horizontal	290	1.00	-	28.50	3.24	-
AV	2.4835G	53.86	54.00	-0.14	22.12	3	Horizontal	290	1.00	-	28.50	3.24	-

2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

2437MHz_TX

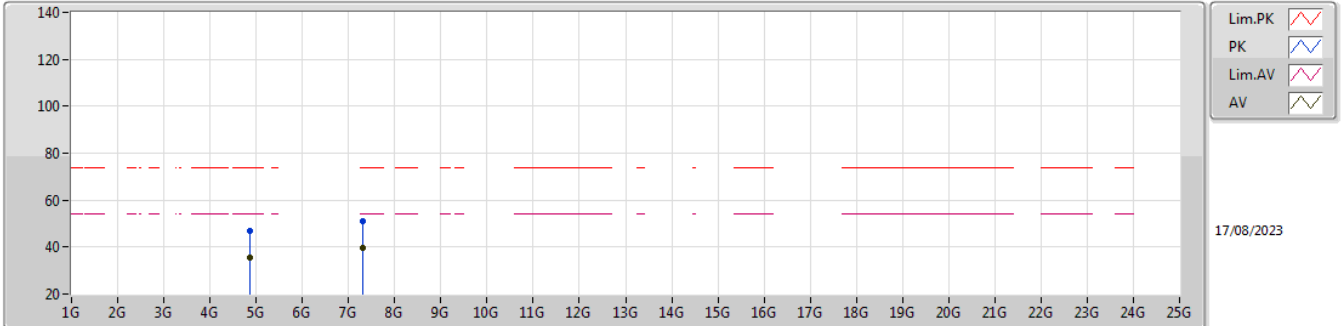


EUT_Z_1TX
Setting 53
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87204G	47.50	74.00	-26.50	39.36	3	Vertical	340	1.87	-	33.14	5.64	30.64
AV	4.8714G	35.72	54.00	-18.28	27.58	3	Vertical	340	1.87	-	33.14	5.64	30.64
PK	7.30776G	50.50	74.00	-23.50	39.14	3	Vertical	201	1.15	-	36.62	6.85	32.11
AV	7.31294G	39.83	54.00	-14.17	28.48	3	Vertical	201	1.15	-	36.63	6.84	32.12

2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

2437MHz_TX

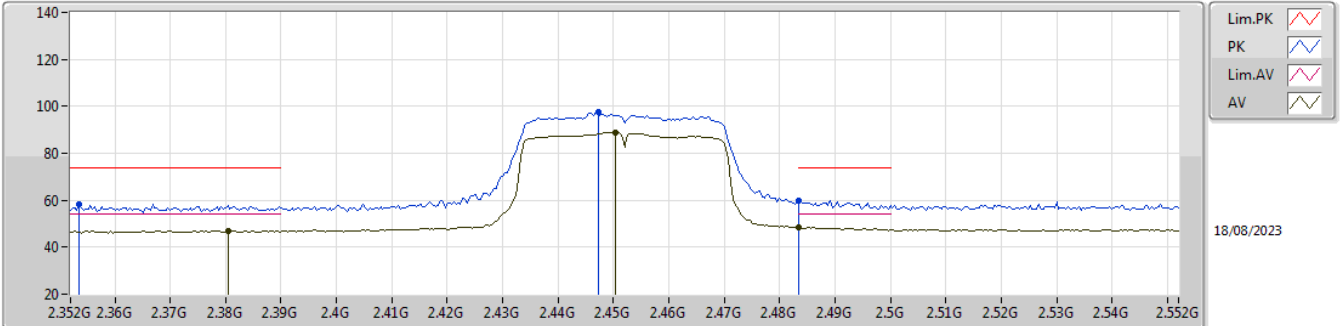


EUT_Z_1TX
Setting 53
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87192G	47.09	74.00	-26.91	38.95	3	Horizontal	314	1.03	-	33.14	5.64	30.64
AV	4.87388G	35.74	54.00	-18.26	27.59	3	Horizontal	314	1.03	-	33.15	5.64	30.64
PK	7.311G	51.03	74.00	-22.97	39.68	3	Horizontal	104	1.35	-	36.62	6.84	32.11
AV	7.31556G	39.68	54.00	-14.32	28.33	3	Horizontal	104	1.35	-	36.63	6.84	32.12

2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

2452MHz_TX

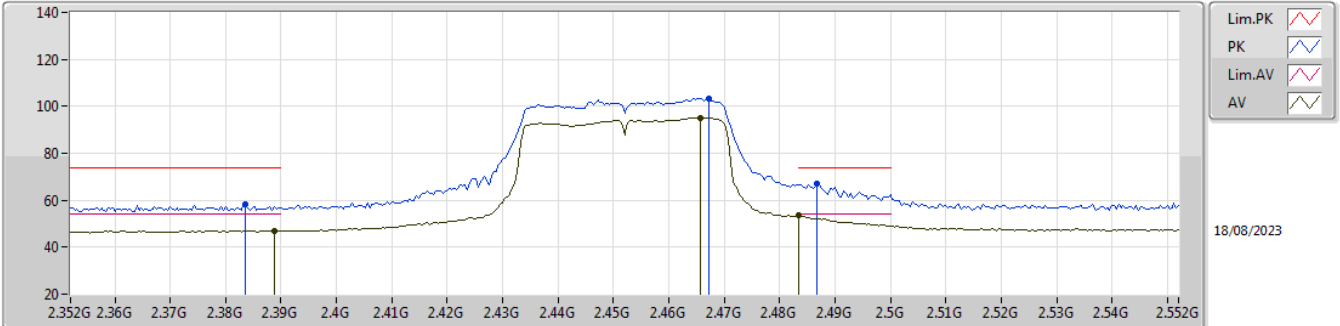


EUT_Z_1TX
Setting 47
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3536G	58.26	74.00	-15.74	26.88	3	Vertical	270	2.71	-	28.20	3.18	-
AV	2.3804G	46.90	54.00	-7.10	15.31	3	Vertical	270	2.71	-	28.40	3.19	-
PK	2.4472G	97.80	Inf	-Inf	66.18	3	Vertical	270	2.71	-	28.40	3.22	-
AV	2.4504G	88.80	Inf	-Inf	57.17	3	Vertical	270	2.71	-	28.40	3.23	-
PK	2.4835G	60.02	74.00	-13.98	28.28	3	Vertical	270	2.71	-	28.50	3.24	-
AV	2.4835G	48.62	54.00	-5.38	16.88	3	Vertical	270	2.71	-	28.50	3.24	-

2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

2452MHz_TX

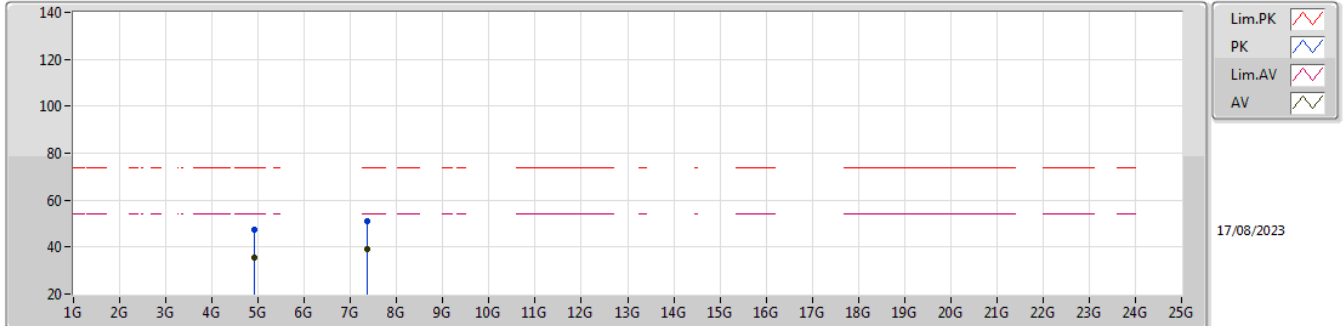


EUT_Z_1TX
Setting 47
02-H-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3836G	58.27	74.00	-15.73	26.68	3	Horizontal	327	1.36	-	28.40	3.19	-
AV	2.3888G	47.13	54.00	-6.87	15.54	3	Horizontal	327	1.36	-	28.40	3.19	-
PK	2.4672G	103.47	Inf	-Inf	71.74	3	Horizontal	327	1.36	-	28.50	3.23	-
AV	2.4656G	95.13	Inf	-Inf	63.40	3	Horizontal	327	1.36	-	28.50	3.23	-
PK	2.4868G	66.84	74.00	-7.16	35.10	3	Horizontal	327	1.36	-	28.50	3.24	-
AV	2.4835G	53.38	54.00	-0.62	21.64	3	Horizontal	327	1.36	-	28.50	3.24	-

2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

2452MHz_TX

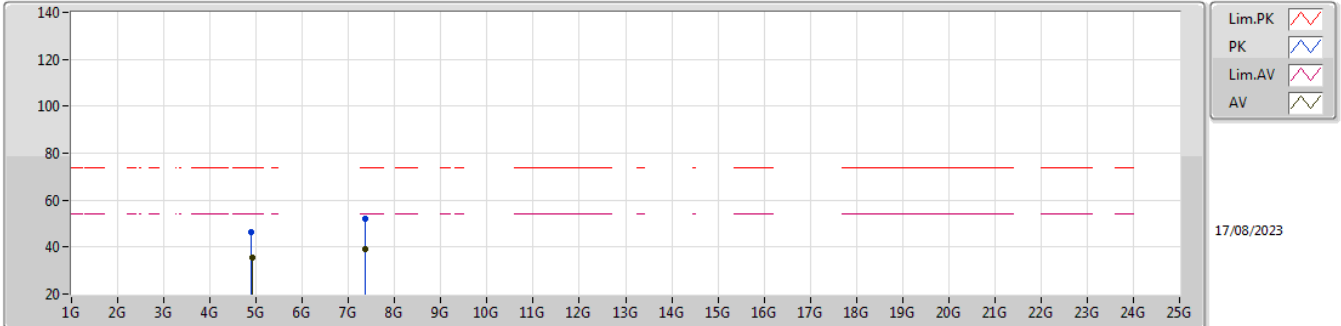


EUT_Z_1TX
Setting 47
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90842G	47.57	74.00	-26.43	39.32	3	Vertical	217	1.22	-	33.22	5.65	30.62
AV	4.90826G	35.73	54.00	-18.27	27.48	3	Vertical	217	1.22	-	33.22	5.65	30.62
PK	7.35346G	50.78	74.00	-23.22	39.40	3	Vertical	124	1.20	-	36.70	6.82	32.14
AV	7.3587G	39.36	54.00	-14.64	27.98	3	Vertical	124	1.20	-	36.70	6.82	32.14

2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

2452MHz_TX



EUT_Z_1TX
Setting 47
02-H-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90002G	46.52	74.00	-27.48	38.30	3	Horizontal	134	1.91	-	33.20	5.65	30.63
AV	4.90892G	35.64	54.00	-18.36	27.39	3	Horizontal	134	1.91	-	33.22	5.65	30.62
PK	7.35556G	52.16	74.00	-21.84	40.78	3	Horizontal	323	1.98	-	36.70	6.82	32.14
AV	7.3579G	39.36	54.00	-14.64	27.98	3	Horizontal	323	1.98	-	36.70	6.82	32.14