



RADIO TEST REPORT

FCC ID : TLZ-XM606
Equipment : IEEE 802.11a/b/g/n/ac/ax Wi-Fi with Bluetooth Combo LGA Module
Brand Name : AzureWave
Model Name : AW-XM606, AW-XM650
Applicant : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Manufacturer : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 05, 2025, and testing was started from Mar. 20, 2025 and completed on Jun. 09, 2025. 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.)



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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_10 Ver1.3

Page Number : 3 of 32
Issued Date : Jun. 26, 2025
Report Version : 01



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/manufacture 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: Sandy Chuang



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20, ax (HEW20)	2412-2462	1-11 [11]

Band	Mode	BWch	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	VHT20	20	1TX
2.4-2.4835GHz	802.11ax HEW20	20	1TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	ARISTOTLE	RFA-27-JP326MHF4C198	PIFA	I-PEX	Note 1
2	-	ARISTOTLE	RFA-27-JP326-C198	PIFA	I-PEX	

Note 1:

Ant.	Port	Gain (dBi)	
		WLAN 2.4GHz / Bluetooth	WLAN 5GHz / WLAN 6GHz
1	1	3.5	5
2	-	3.5	5

Note 2: From the above models, the ant. 1 and ant. 2 are identical excepting the model name. Thus, only ant. 1 is selected to test and record in this report.

Note 3: The above information was declared by manufacturer.

Note 4:

For 2.4GHz function:

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

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

For 5GHz function:

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

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

For 6GHz function:

For IEEE 802.11ax (1TX/1RX):

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

For Bluetooth function (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_Nss 1,(1D)	0.99	0.04	8.613m	10Hz (DC>=0.98)
802.11g_Nss 1,(6D)	0.936	0.29	1.431m	1k
802.11ax HEW20_Nss 1,(M0)	0.915	0.39	1.05m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From host system			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	teraterm.exe (V4.75)			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Model Name	Chipset Number	Description
AW-XM606	CYW55513	The EUT has two model names which are identical to each other in all aspect except for the chipset solutions. These chipset solutions have the same circuitry, electrical, mechanical, and physical construction.
AW-XM650	CYW55512	

Note 1: From the above models, model: AW-XM606 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.247
- ♦ 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 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	TH02-CB	Brian Sun	21.2~22.6 / 58~62	Mar. 31, 2025~ May 20, 2025
Radiated below 1GHz	03CH03-CB	Gordon Hung	21.6~23.1 / 58~62	Jun. 04, 2025
Radiated above 1GHz	03CH04-CB	Viola Huang	21.4~22.6 / 57~61	Mar. 20, 2025~ May 09, 2025
Radiated Co-Location	03CH06-CB	Viola Huang	21.9~23.1 / 60~62	Jun. 03, 2025
AC Conduction	CO01-CB	Tim Chen	22~23 / 58~60	Jun. 09, 2025



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 Date: Before May 28, 2025

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 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	2.1 %	Confidence levels of 95%

Test Date: After May 27, 2025

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
802.11b_Nss1,(1Mbps)_1TX
2412MHz
2437MHz
2457MHz
2462MHz
802.11g_Nss1,(6Mbps)_1TX
2412MHz
2437MHz
2457MHz
2462MHz
802.11ax HEW20_Nss1,(MCS0)_1TX
2412MHz
2437MHz
2457MHz
2462MHz

Note:

HEW20 covers HT20/VHT20 due to similar modulation. The power setting for HT20/VHT20 is the same or lower than HEW20.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	EUT + Bluetooth + Ant. 1
2	EUT + WLAN 2.4GHz + Ant. 1
3	EUT + WLAN 5GHz + Ant. 1
4	EUT + WLAN 6GHz + Ant. 1
For operating mode 4 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 Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
1	EUT + Ant. 1

The Worst Case Mode for Following Conformance Tests	
Tests Item	Power Spectral Density
Test Condition	Conducted measurement at transmit chains
1	EUT + Ant. 1

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
	After evaluating, the worst case axis was found as below from the Radiated emission above 1GHz. So the measurement will follow this same test configuration.
1	EUT in X axis + Bluetooth + Ant. 1
2	EUT in X axis + WLAN 2.4GHz + Ant. 1
3	EUT in Y axis + WLAN 5GHz + Ant. 1
4	EUT in X axis + WLAN 6GHz + Ant. 1
For operating mode 4 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	After evaluating, the worst case axis was found as below. So the measurement will follow this same test configuration.
1	EUT in X axis + Ant. 1

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
After evaluating, the worst case axis was found as below from the Radiated emission above 1GHz. So the measurement will follow this same test configuration.	
1	EUT in X axis + Bluetooth + WLAN 2.4GHz + Ant. 1
2	EUT in Y axis + Bluetooth + WLAN 5GHz + Ant. 1
3	EUT in X axis + Bluetooth + WLAN 6GHz + Ant. 1
For operating mode 2 is the worst case and it was record in this test report.	
Refer to Appendix G for Radiated Emission Co-location.	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT + Bluetooth + WLAN 2.4GHz + Ant. 1
2	EUT + Bluetooth + WLAN 5GHz + Ant. 1
3	EUT + Bluetooth + WLAN 6GHz + Ant. 1
Refer to Sporton Test Report No.: FA521123 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For Normal Link:

During the test, the EUT operation to normal function.

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	Lenovo	X260	N/A
B	Earphone	SHYARO CHI	MIC-04	N/A
C	Mouse	Logitech	M-U0026	N/A
D	USB HUB	INTOPIC	HB-16	N/A
E	Fixture	Azurewave	2460-I4	N/A
F	SD Card	Apacer	SD Card	N/A
G	Fixture	Azurewave	2460-I3	N/A

For Radiated Below 1GHz:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Fixture	Azurewave	2501-i1	N/A
C	Fixture	Azurewave	2460-I3	N/A
D	SD Card	Apacer	SD Card	N/A
E	Fixture	Azurewave	9007-I13	N/A

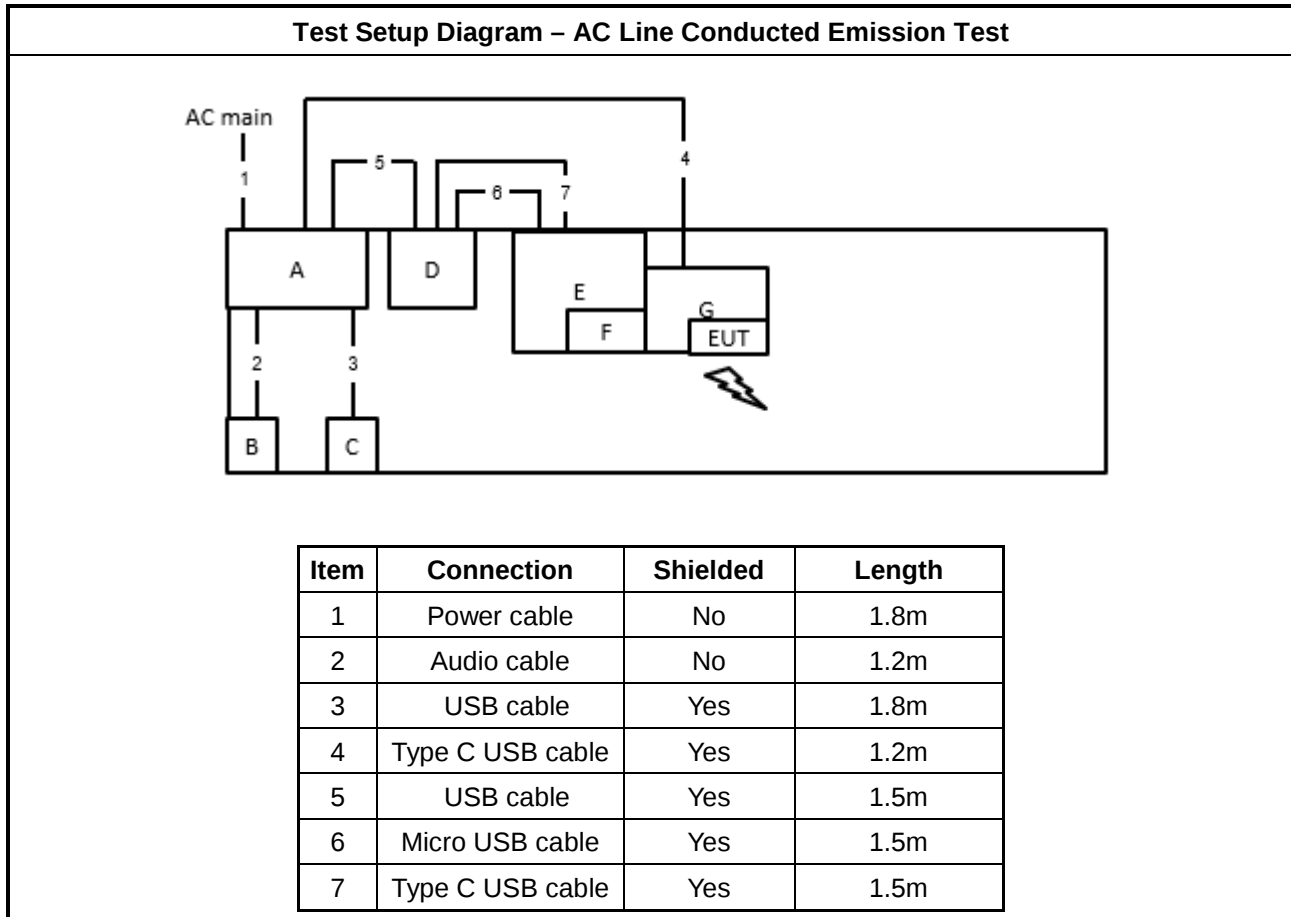
**For Radiated Above 1GHz:**

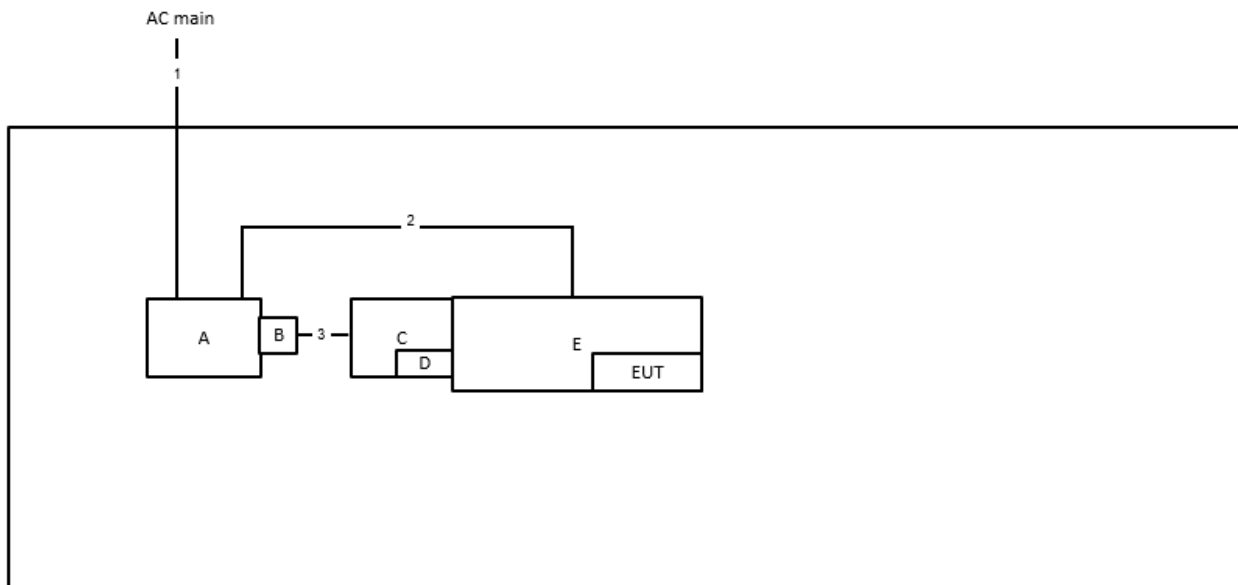
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	USB HUB	TP-Llink	UE306	N/A
C	Fixture	Azurewave	2460-I4	N/A
D	Fixture	Azurewave	2460-I3	N/A
E	SD Card	Apacer	SD Card	N/A

For RF Conducted:

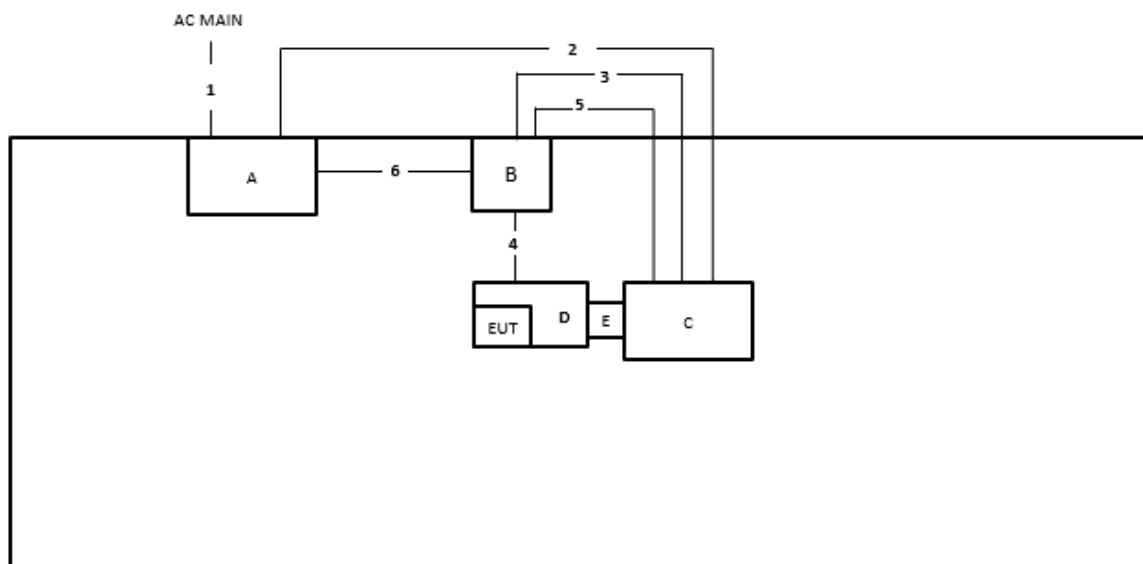
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	USB HUB	TP-Llink	UE306	N/A
C	Fixture	Azurewave	2460-I4	N/A
D	Fixture	Azurewave	2460-I3	N/A
E	SD Card	Apacer	SD Card	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test Below 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	Type C USB cable	Yes	1.2m
3	DC cable	No	0.4m



Item	Connection	Shielded	Length
1	Power cable	No	2.6m
2	RJ-45 cable	No	1m
3	USB to Type C cable	Yes	1m
4	USB to Type C cable	Yes	1m
5	Micro USB C cable	Yes	1m
6	USB cable	Yes	0.1m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

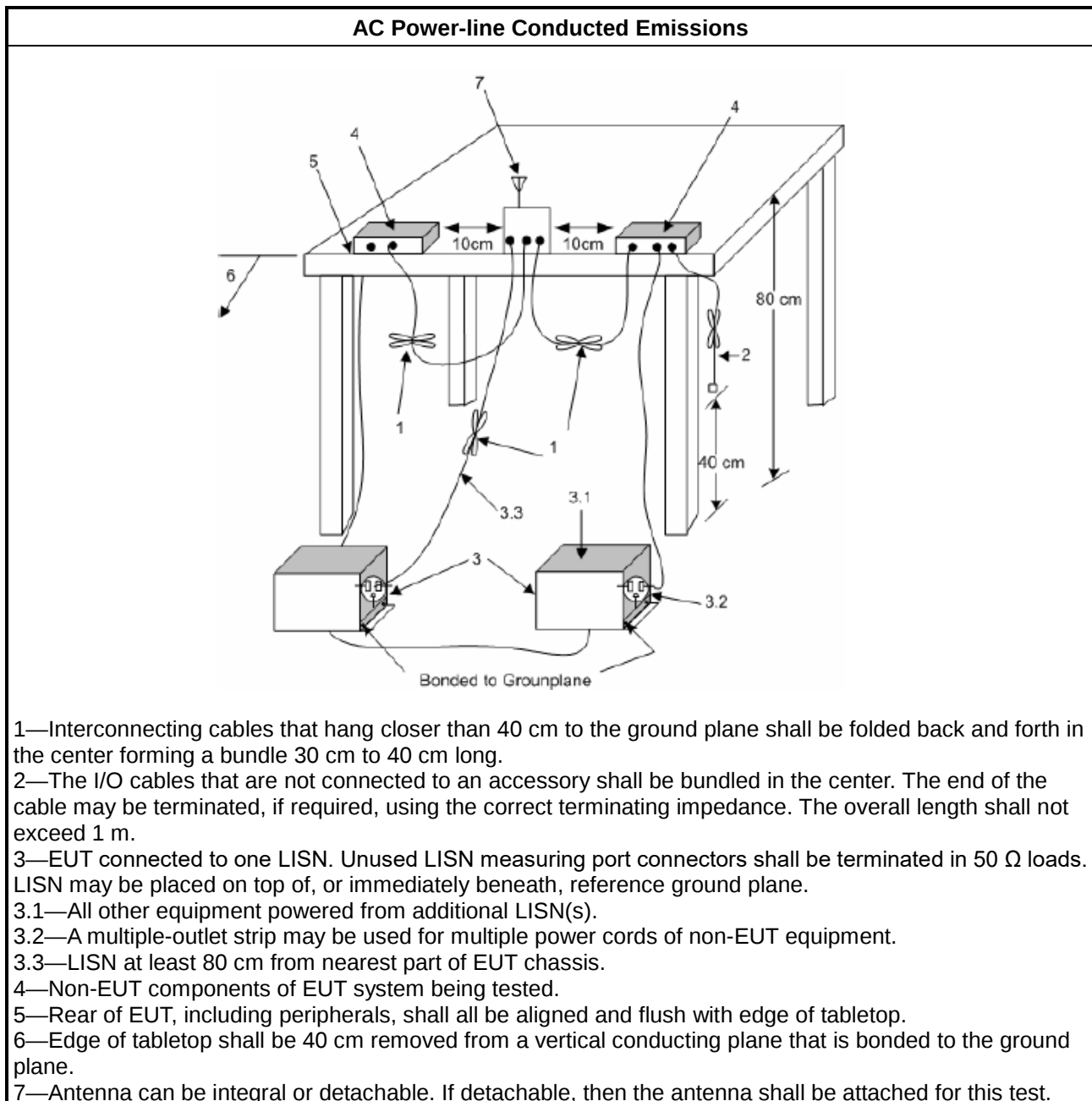
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 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:
6 dB bandwidth $\geq$ 500 kHz.

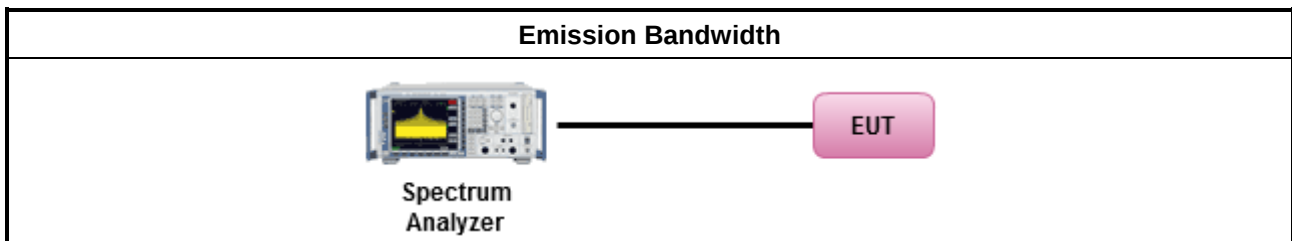
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐ 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	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- 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

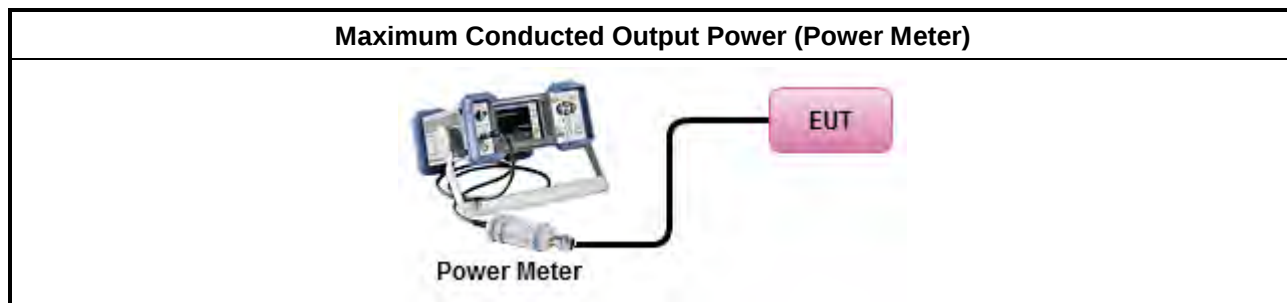
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
▪ Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	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	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	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)	
☐	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).
☒	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).
▪ For conducted measurement.	
▪ 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.	
▪ 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
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

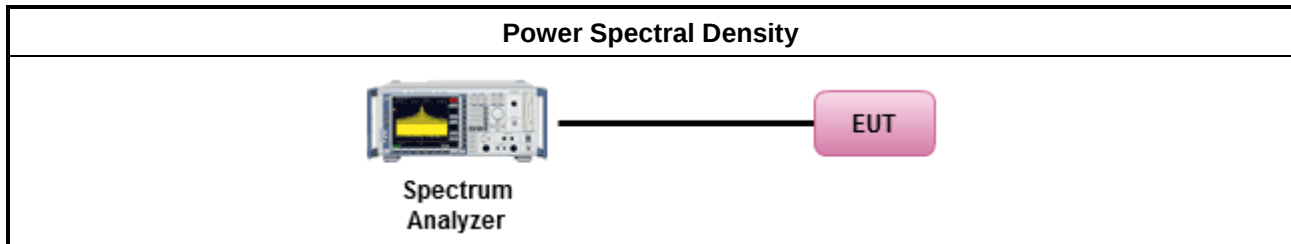
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪ 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).	
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
☐	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.
☐	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,
☐	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.	

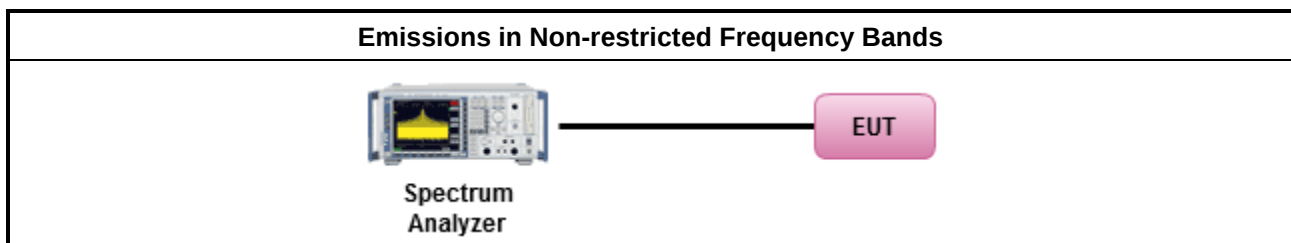
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
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.

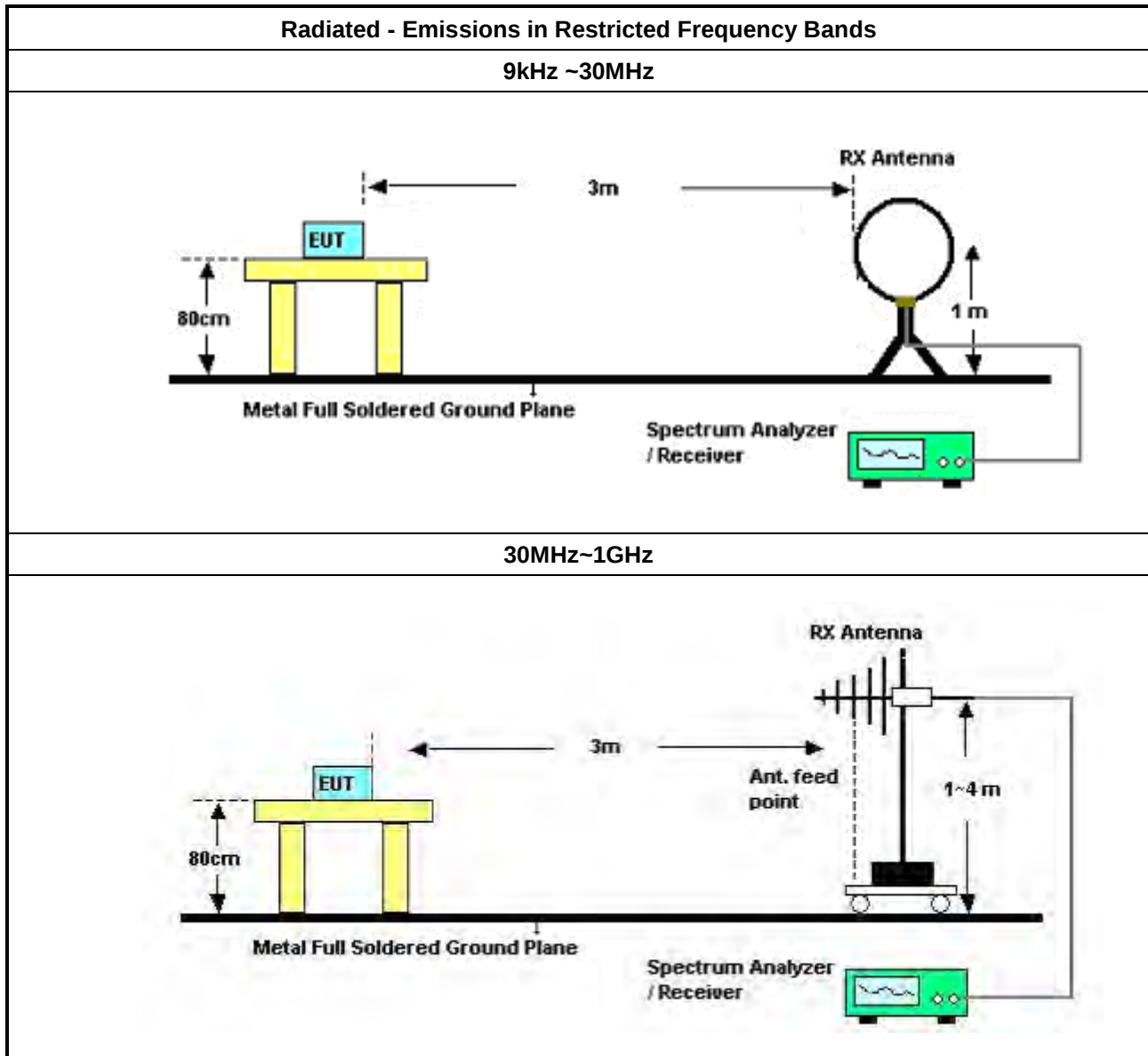
3.6.2 Measuring Instruments

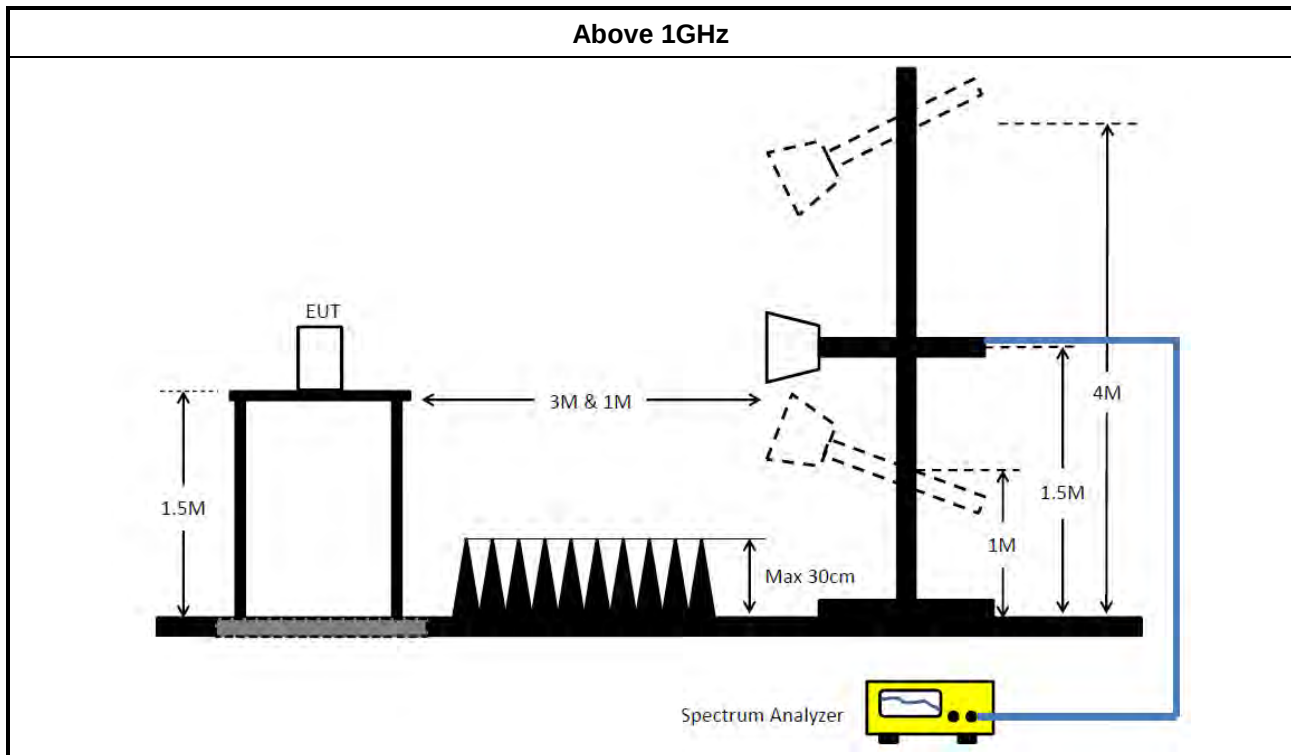
Refer a test equipment and calibration data table in this test report.

**3.6.3 Test Procedures**

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ 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.
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	▪ 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).
	▪ 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
	▪ 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	Mar. 06, 2025	Mar. 05, 2026	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 18, 2025	Feb. 17, 2026	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	May 10, 2025	May 09, 2026	Conduction (CO01-CB)
Pulse Limiter	Rohde& Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	CO01	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 16, 2024	Oct. 15, 2025	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 17, 2025	Jan. 16, 2026	Radiation (03CH03-CB)
Bilog Antenna with 6dB Attenuator	Schaffner & EMCI	CBL6112B& N-6-06	2888&AT-N0605	30MHz ~ 1GHz	Jan. 17, 2025	Jan. 16, 2026	Radiation (03CH03-CB)
Amplifier	EMCI	EMC330N	980332	30M~1GHz	May 01, 2025	Apr. 30, 2026	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 11, 2024	Jun. 10, 2025	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 21, 2024	Oct. 20, 2025	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 21, 2025	Feb. 20, 2026	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 20, 2024	Dec. 19, 2025	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH5265	20211115-1	1~ 26.5GHz	Jan. 16, 2025	Jan. 15, 2026	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH04-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2024	Apr. 25, 2025	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 24, 2025	Mar. 23, 2026	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE-15247_DTS	V5.11.23	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 08, 2024	Oct. 07, 2025	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 29, 2024	Jul. 28, 2025	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 02, 2024	Nov. 01, 2025	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH06-CB)
Signal analyzer	R&S	FSV3044	101667	9kHz~44GHz	Aug. 20, 2024	Aug. 19, 2025	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 27, 2024	Aug. 26, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1–18 GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH02-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Oct. 25, 2024	Oct. 24, 2025	Conducted (TH02-CB)
Test Software	SPORTON	SENSE-15247_DTS	V5.11.23	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

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



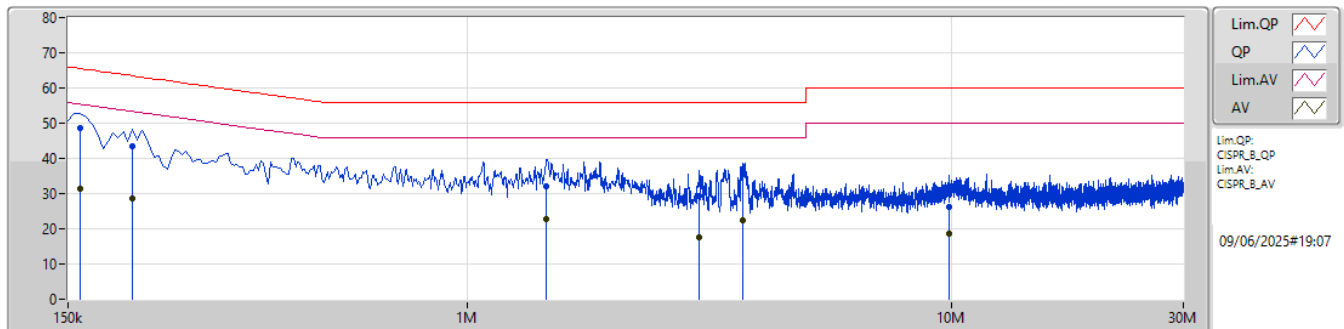
Conducted Emissions at Powerline

Appendix A

Summary

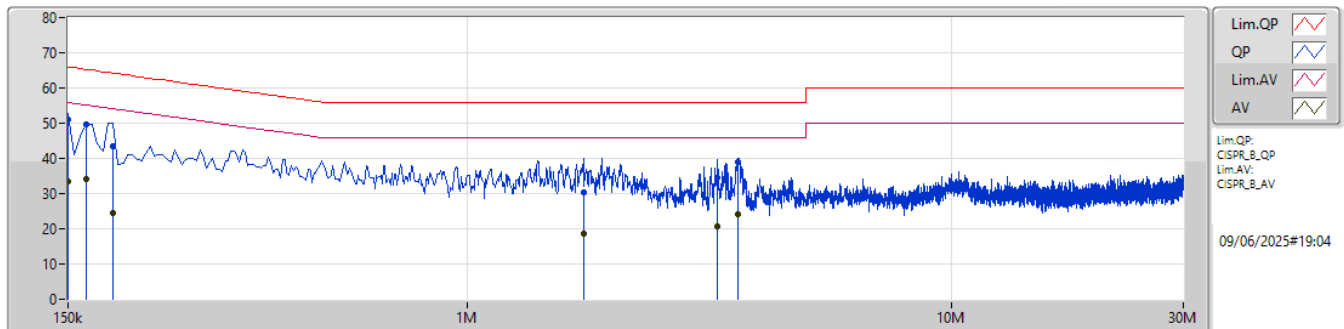
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 4	Pass	QP	150k	50.98	66.00	-15.02	Neutral

Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	159k	48.46	65.52	-17.06	10.05	Line	"Worst"	38.41	0.05	0.08	9.92						
AV	159k	31.29	55.52	-24.23	10.05	Line	-	21.24	0.05	0.08	9.92						
QP	204k	43.30	63.44	-20.14	10.08	Line	-	33.22	0.06	0.07	9.95						
AV	204k	28.53	53.44	-24.91	10.08	Line	-	18.45	0.06	0.07	9.95						
QP	1.455M	32.22	56.00	-23.78	10.26	Line	-	21.96	0.09	0.12	10.05						
AV	1.455M	22.80	46.00	-23.20	10.26	Line	-	12.54	0.09	0.12	10.05						
QP	3.012M	29.22	56.00	-26.78	10.18	Line	-	19.04	0.11	0.15	9.92						
AV	3.012M	17.65	46.00	-28.35	10.18	Line	-	7.47	0.11	0.15	9.92						
QP	3.705M	36.35	56.00	-19.65	10.19	Line	-	26.16	0.13	0.15	9.91						
AV	3.705M	22.27	46.00	-23.73	10.19	Line	-	12.08	0.13	0.15	9.91						
QP	9.843M	26.36	60.00	-33.64	10.20	Line	-	16.16	0.23	0.15	9.82						
AV	9.843M	18.78	50.00	-31.22	10.20	Line	-	8.58	0.23	0.15	9.82						

Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	50.98	66.00	-15.02	10.07	Neutral	"Worst"	40.91	0.08	0.08	9.91						
AV	150k	33.30	56.00	-22.70	10.07	Neutral	-	23.23	0.08	0.08	9.91						
QP	163.5k	49.53	65.27	-15.74	10.08	Neutral	-	39.45	0.08	0.08	9.92						
AV	163.5k	34.31	55.27	-20.96	10.08	Neutral	-	24.23	0.08	0.08	9.92						
QP	186k	43.45	64.20	-20.75	10.09	Neutral	-	33.36	0.08	0.07	9.94						
AV	186k	24.51	54.20	-29.69	10.09	Neutral	-	14.42	0.08	0.07	9.94						
QP	1.739M	30.35	56.00	-25.65	10.23	Neutral	-	20.12	0.11	0.13	9.99						
AV	1.739M	18.72	46.00	-27.28	10.23	Neutral	-	8.49	0.11	0.13	9.99						
QP	3.278M	34.54	56.00	-21.46	10.21	Neutral	-	24.33	0.15	0.15	9.91						
AV	3.278M	20.71	46.00	-25.29	10.21	Neutral	-	10.50	0.15	0.15	9.91						
QP	3.62M	38.92	56.00	-17.08	10.21	Neutral	-	28.71	0.15	0.15	9.91						
AV	3.62M	24.28	46.00	-21.72	10.21	Neutral	-	14.07	0.15	0.15	9.91						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	8.825M	14.061M	14M1G1D	7.1M	11.116M
802.11g_Nss1,(6Mbps)_1TX	16.35M	16.756M	16M8D1D	14.1M	16.484M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.975M	18.914M	18M9D1D	8.65M	18.88M

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

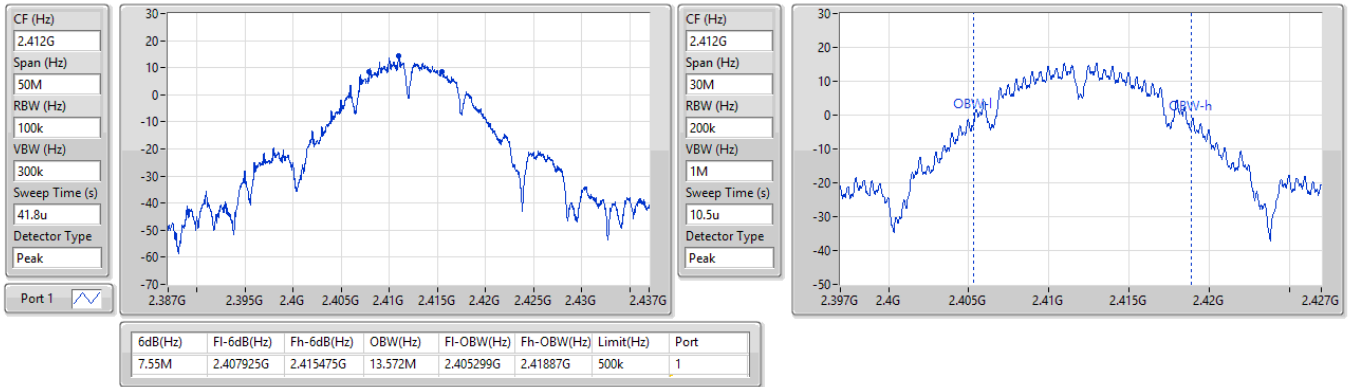
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	7.55M	13.572M
2437MHz	Pass	500k	8.825M	14.061M
2462MHz	Pass	500k	7.1M	11.116M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	14.1M	16.484M
2437MHz	Pass	500k	16.35M	16.569M
2462MHz	Pass	500k	16.35M	16.756M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	8.65M	18.891M
2437MHz	Pass	500k	18.7M	18.914M
2462MHz	Pass	500k	18.975M	18.88M

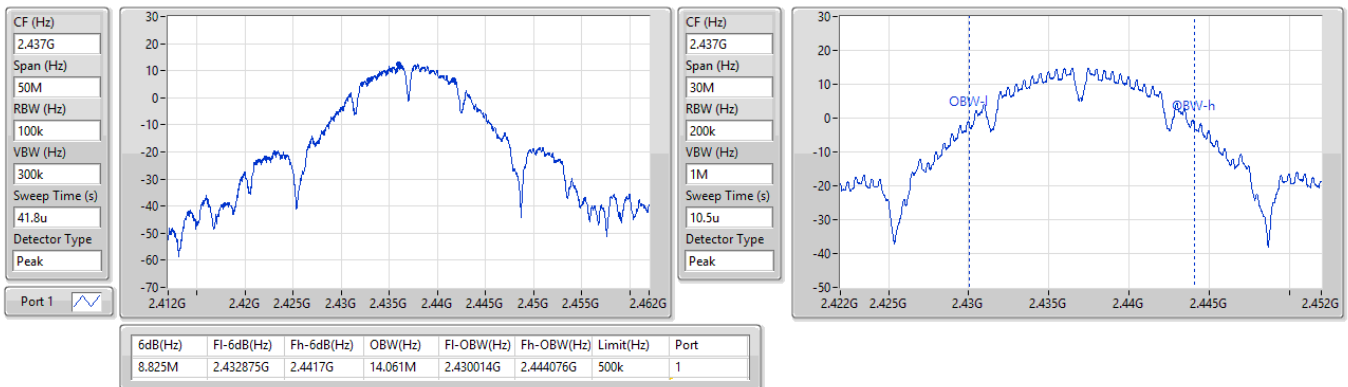
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

31/03/2025


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

31/03/2025

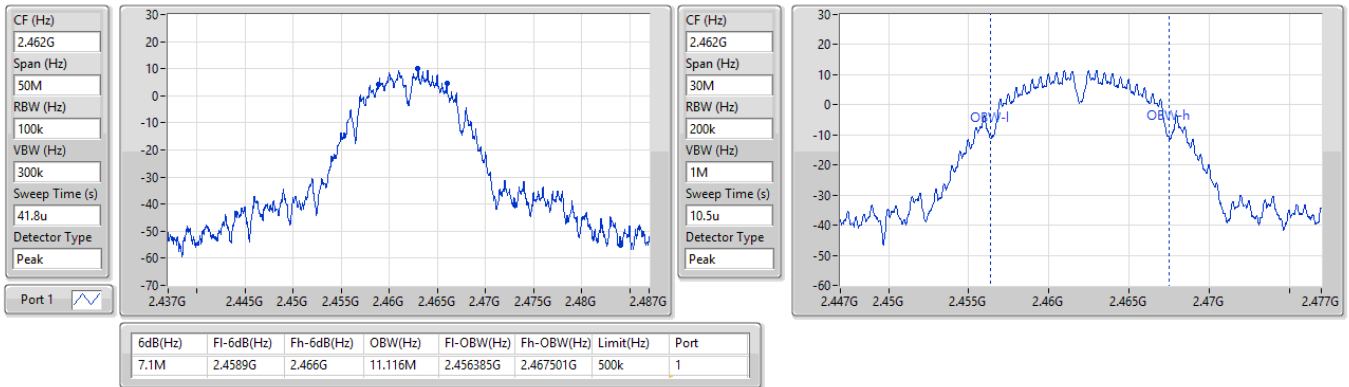


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2462MHz

31/03/2025

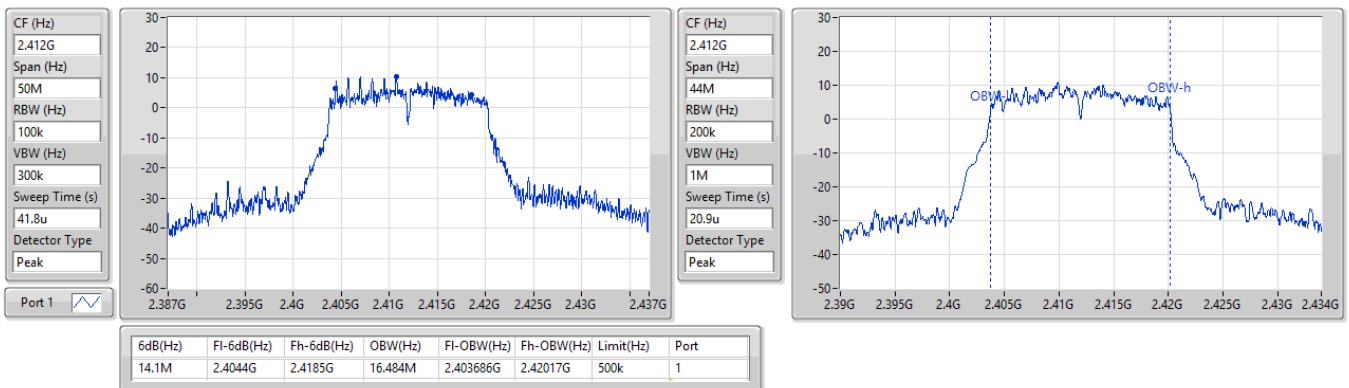


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

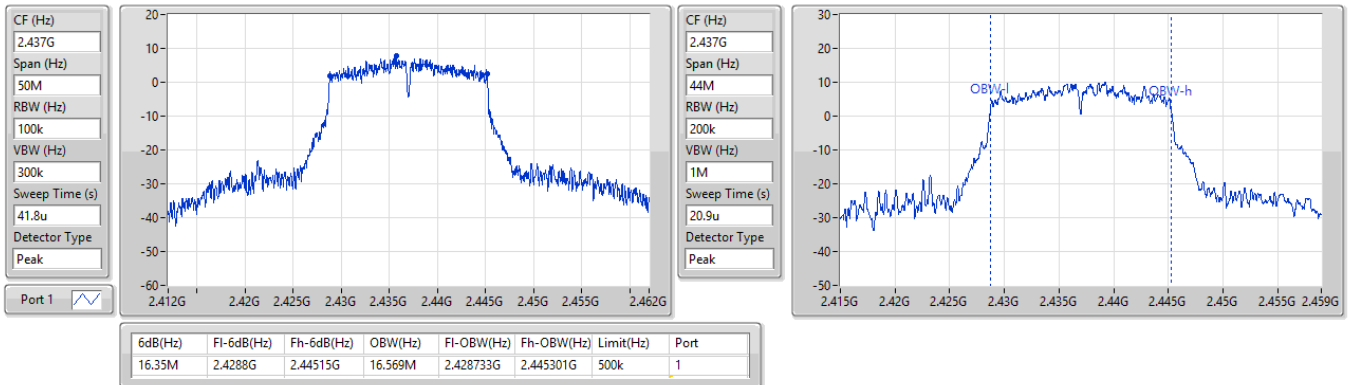
2412MHz

31/03/2025

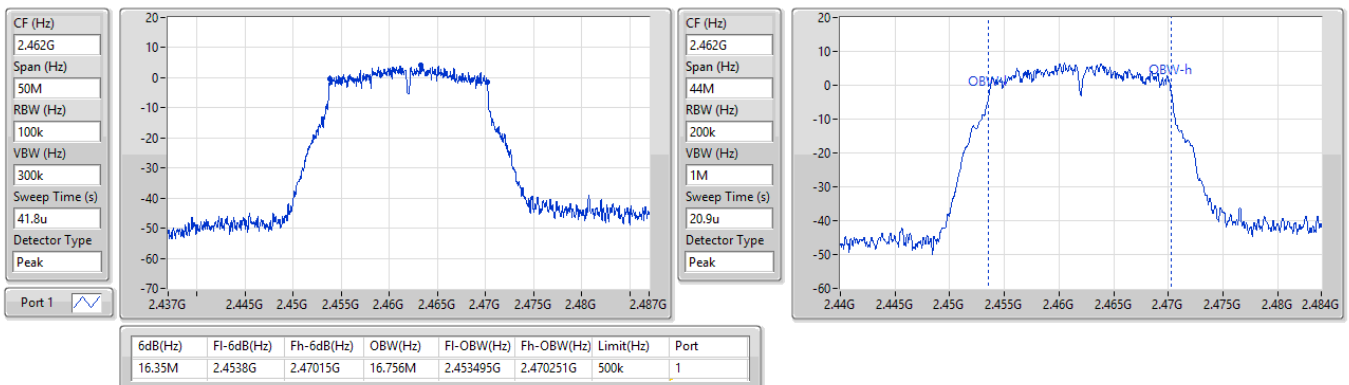


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2437MHz

31/03/2025

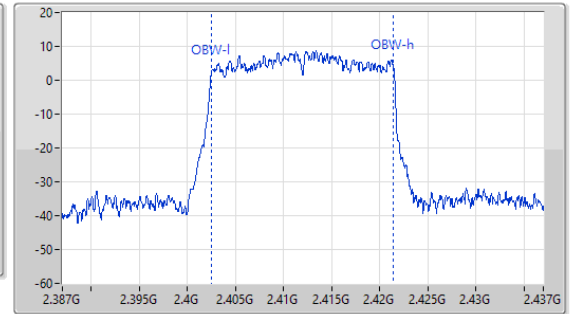
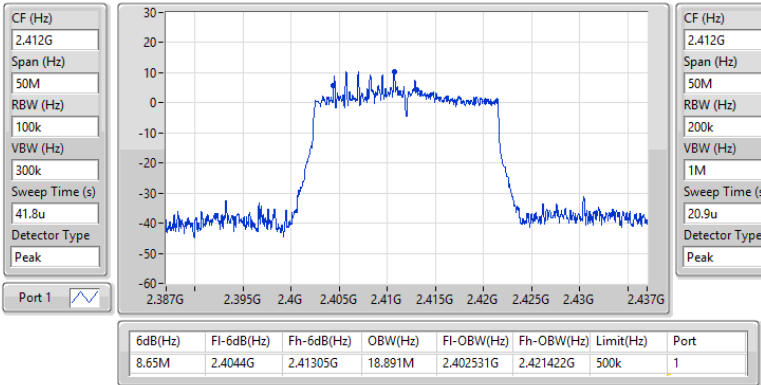

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2462MHz

31/03/2025

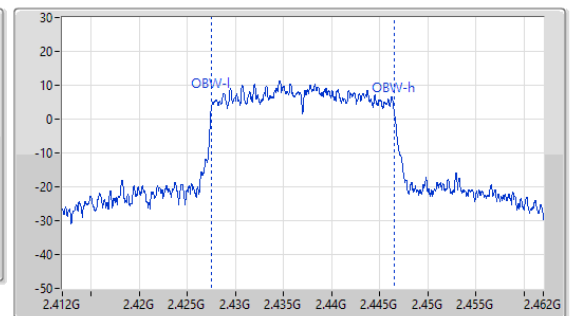
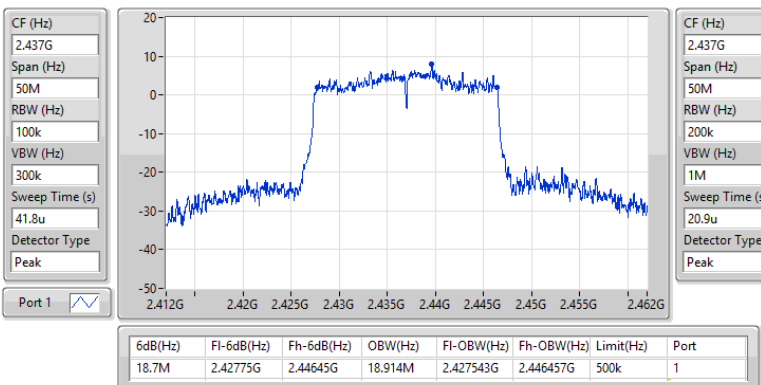


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
2412MHz

31/03/2025


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
2437MHz

31/03/2025

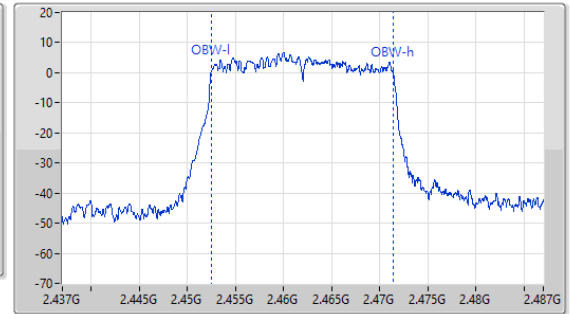
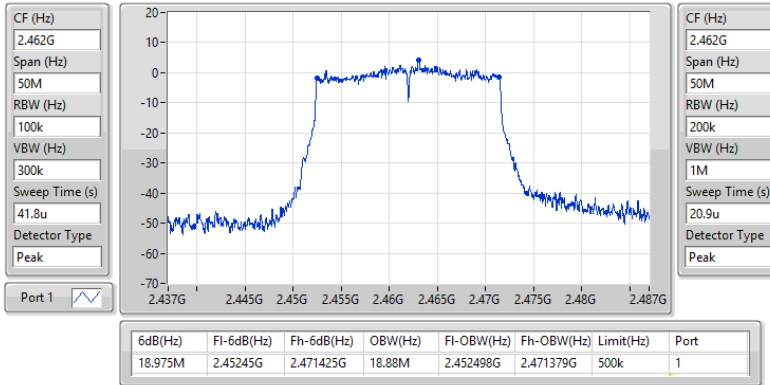


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

2462MHz

31/03/2025





Average Power

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	23.71	0.23496
802.11g_Nss1,(6Mbps)_1TX	20.93	0.12388
802.11ax HEW20_Nss1,(MCS0)_1TX	21.15	0.13032



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.50	22.94	22.94	30.00
2437MHz	Pass	3.50	23.71	23.71	30.00
2457MHz	Pass	3.50	21.03	21.03	30.00
2462MHz	Pass	3.50	18.98	18.98	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.50	20.78	20.78	30.00
2437MHz	Pass	3.50	20.93	20.93	30.00
2457MHz	Pass	3.50	18.09	18.09	30.00
2462MHz	Pass	3.50	17.84	17.84	30.00
802.11ax_HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.50	19.71	19.71	30.00
2437MHz	Pass	3.50	21.15	21.15	30.00
2457MHz	Pass	3.50	17.68	17.68	30.00
2462MHz	Pass	3.50	17.33	17.33	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	1.15
802.11g_Nss1,(6Mbps)_1TX	-4.41
802.11ax HEW20_Nss1,(MCS0)_1TX	-5.29

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	3.50	-1.01	-1.01	8.00
2437MHz	Pass	3.50	1.15	1.15	8.00
2462MHz	Pass	3.50	-4.91	-4.91	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.50	-4.41	-4.41	8.00
2437MHz	Pass	3.50	-4.49	-4.49	8.00
2462MHz	Pass	3.50	-7.02	-7.02	8.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.50	-7.51	-7.51	8.00
2437MHz	Pass	3.50	-5.29	-5.29	8.00
2462MHz	Pass	3.50	-8.59	-8.59	8.00

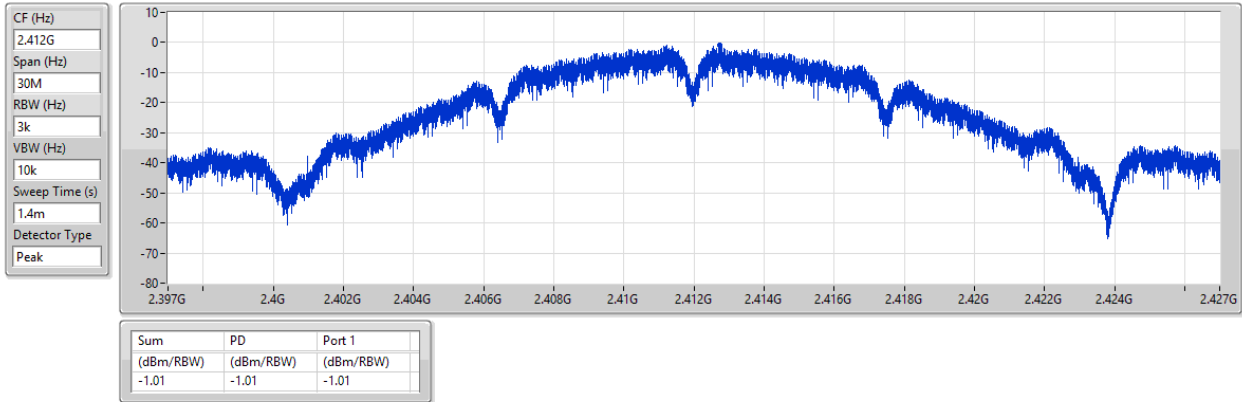
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

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

PSD

2412MHz

31/03/2025

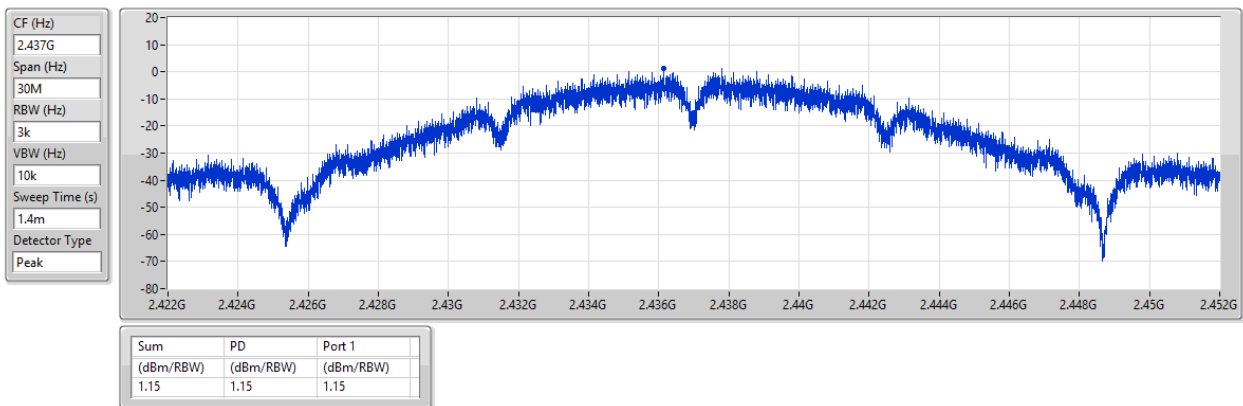


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

31/03/2025

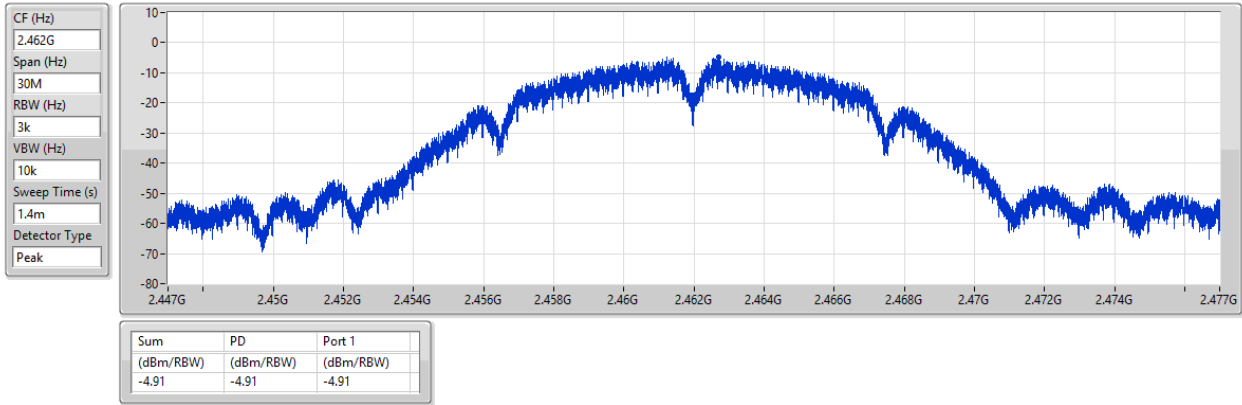


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

31/03/2025

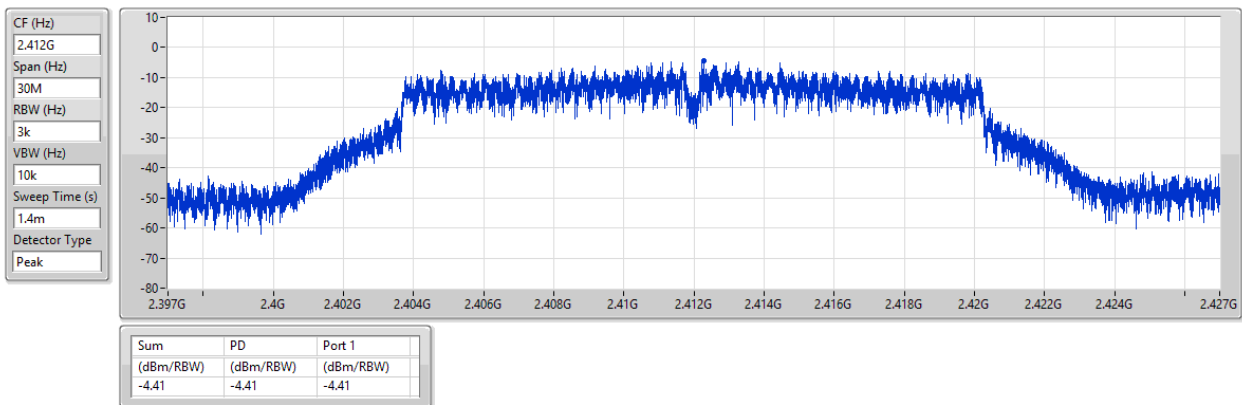


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

31/03/2025

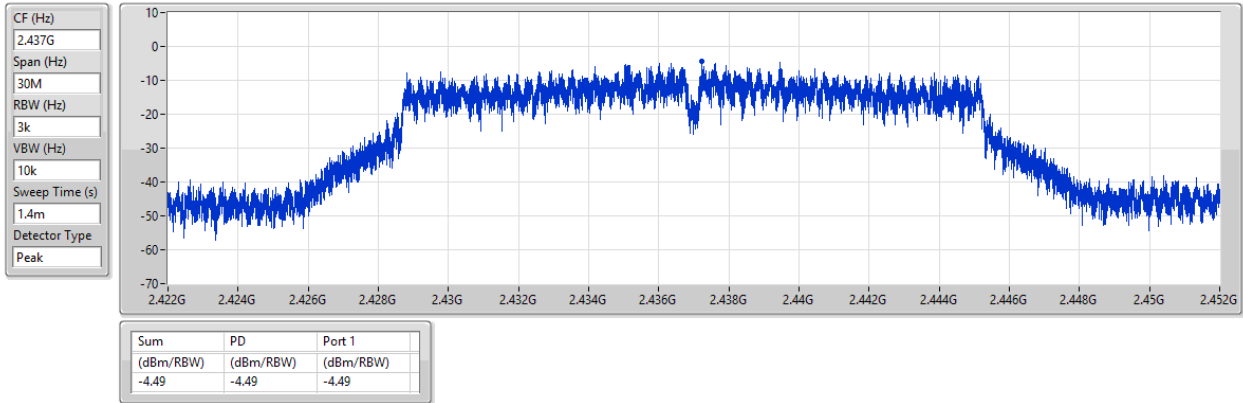


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

31/03/2025

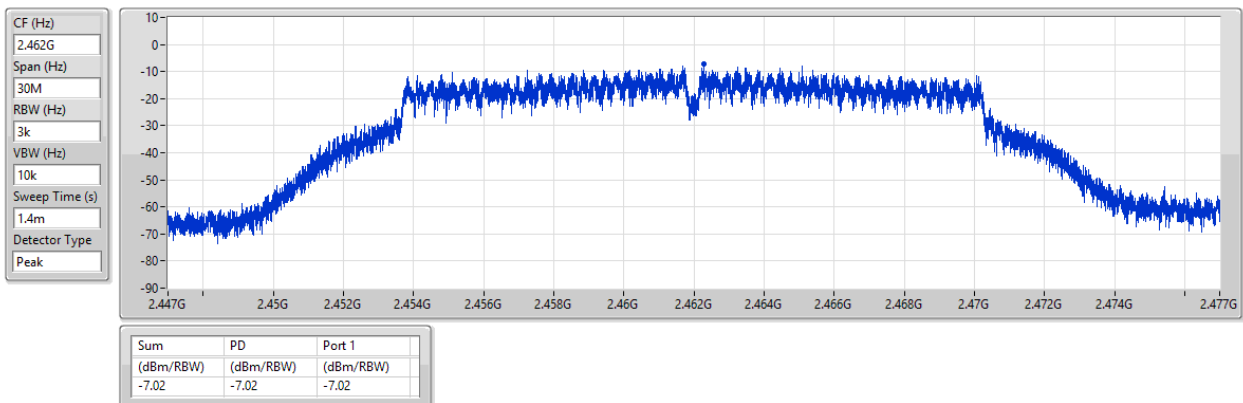


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

31/03/2025

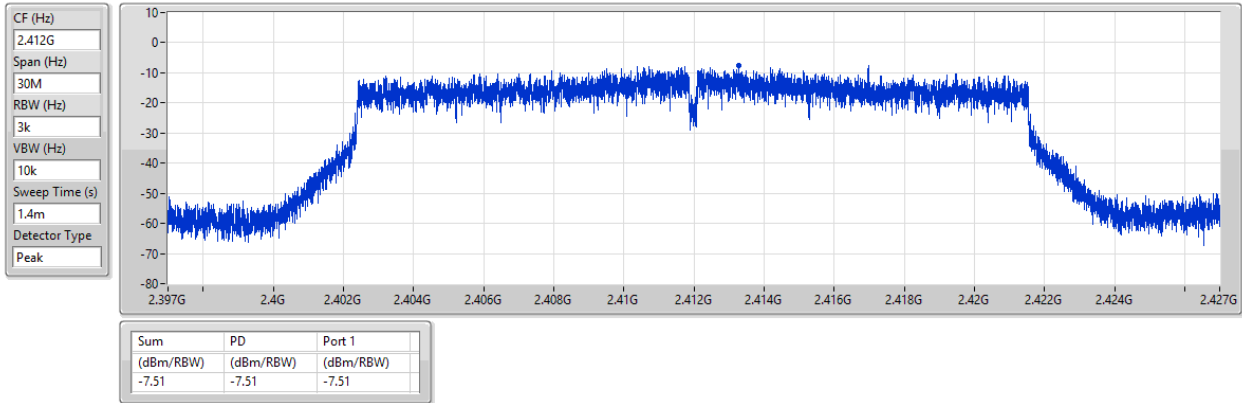


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2412MHz

31/03/2025

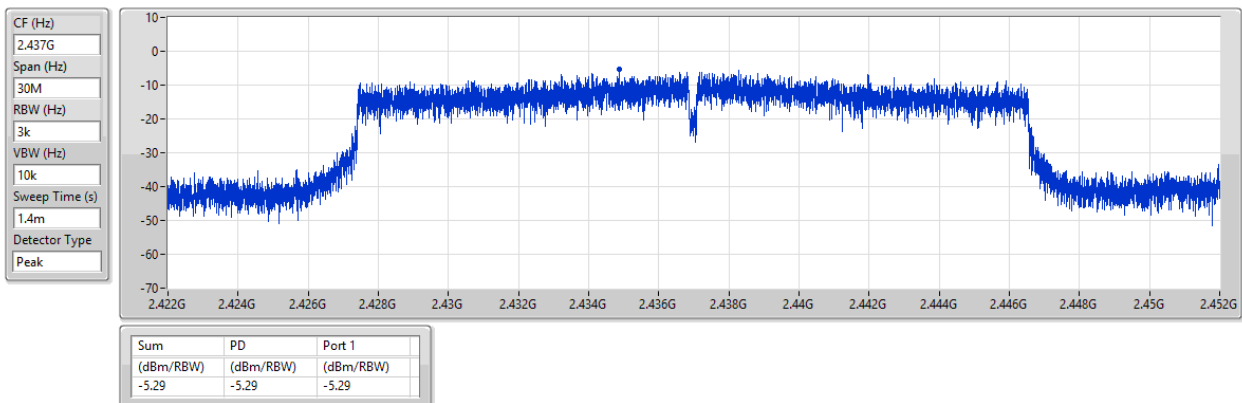


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2437MHz

31/03/2025

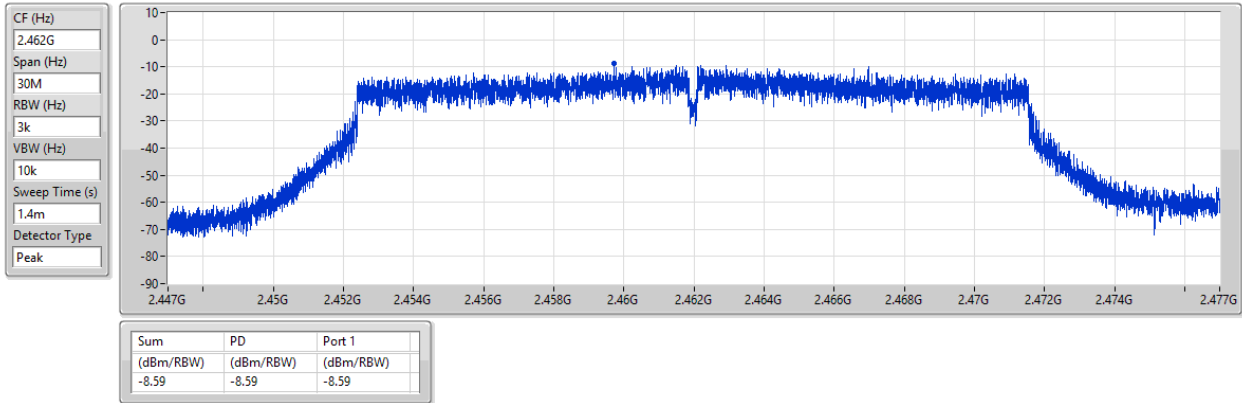


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

PSD

2462MHz

31/03/2025





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	2.43641G	15.23	-14.77	2.12351G	-54.37	2.39848G	-19.36	2.4G	-28.33	2.51286G	-54.24	7.23514G	-38.09	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43824G	12.14	-17.86	2.13749G	-53.77	2.39824G	-21.46	2.4G	-28.35	2.50014G	-53.49	21.95724G	-45.29	1
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	2.4319G	12.33	-17.67	2.13982G	-53.68	2.3932G	-29.37	2.4G	-35.77	2.50542G	-53.91	21.70438G	-45.85	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	2.43641G	15.23	-14.77	2.12351G	-54.37	2.39848G	-19.36	2.4G	-28.33	2.51286G	-54.24	7.23514G	-38.09	1
2437MHz	Pass	2.43641G	15.23	-14.77	2.08856G	-53.68	2.39904G	-40.08	2.4G	-47.57	2.50198G	-50.42	21.58076G	-45.93	1
2462MHz	Pass	2.43641G	15.23	-14.77	2.16545G	-54.27	2.39568G	-52.77	2.4G	-55.91	2.50542G	-53.33	21.55829G	-45.48	1
802.11g_Nss1(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	12.14	-17.86	2.13749G	-53.77	2.39824G	-21.46	2.4G	-28.35	2.50014G	-53.49	21.95724G	-45.29	1
2437MHz	Pass	2.43824G	12.14	-17.86	2.12933G	-54.62	2.39696G	-38.76	2.4G	-44.28	2.50534G	-51.70	21.76619G	-46.01	1
2462MHz	Pass	2.43824G	12.14	-17.86	2.30525G	-54.80	2.39768G	-53.14	2.4G	-54.55	2.50198G	-48.75	21.86453G	-45.65	1
802.11ax HEW20_Nss1(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4319G	12.33	-17.67	2.13982G	-53.68	2.3932G	-29.37	2.4G	-35.77	2.50542G	-53.91	21.70438G	-45.85	1
2437MHz	Pass	2.4319G	12.33	-17.67	1.78566G	-54.08	2.39576G	-35.09	2.4G	-39.88	2.50054G	-46.10	21.52738G	-45.71	1
2462MHz	Pass	2.4319G	12.33	-17.67	1.96157G	-54.79	2.39576G	-53.39	2.4G	-54.76	2.5003G	-48.05	21.46557G	-45.28	1

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

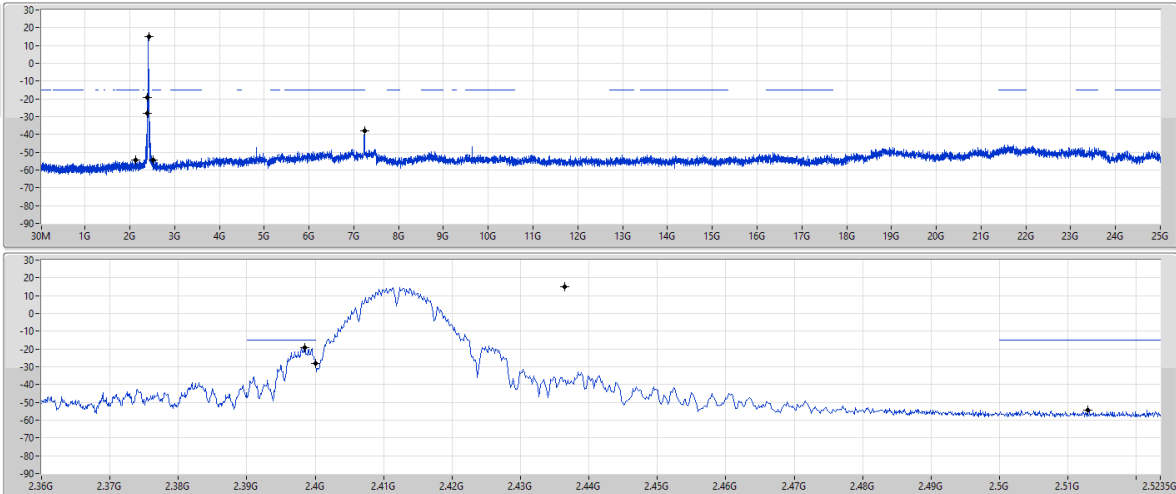
CSEndB

2412MHz

31/03/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Port 1



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

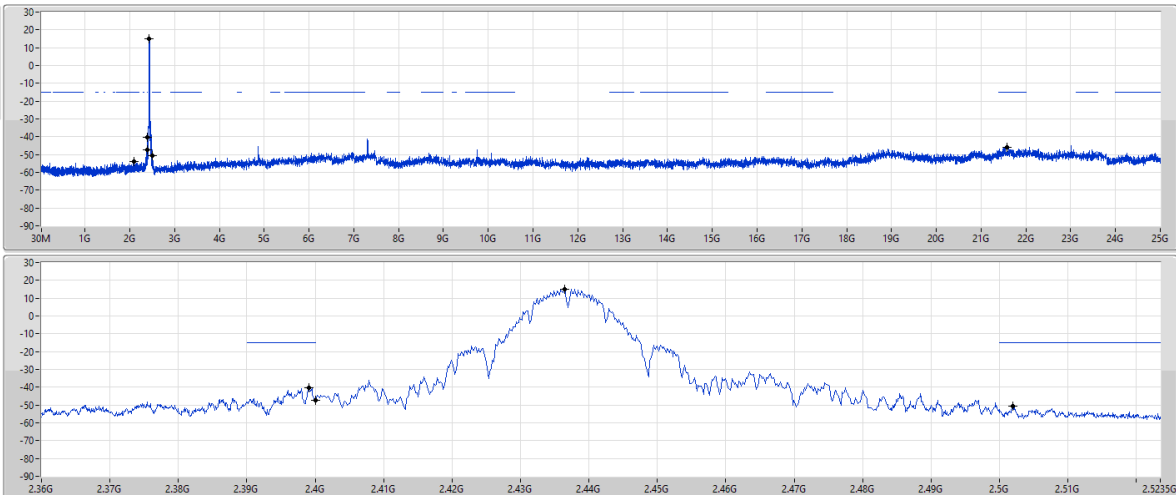
CSEndB

2437MHz

31/03/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

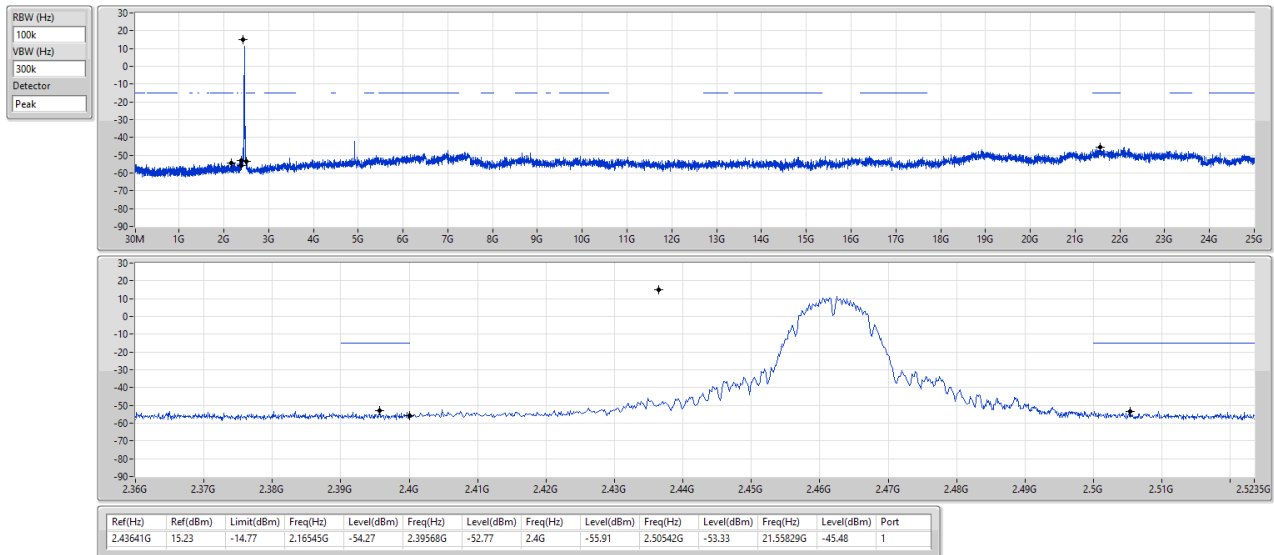
Port 1



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

CSEndB

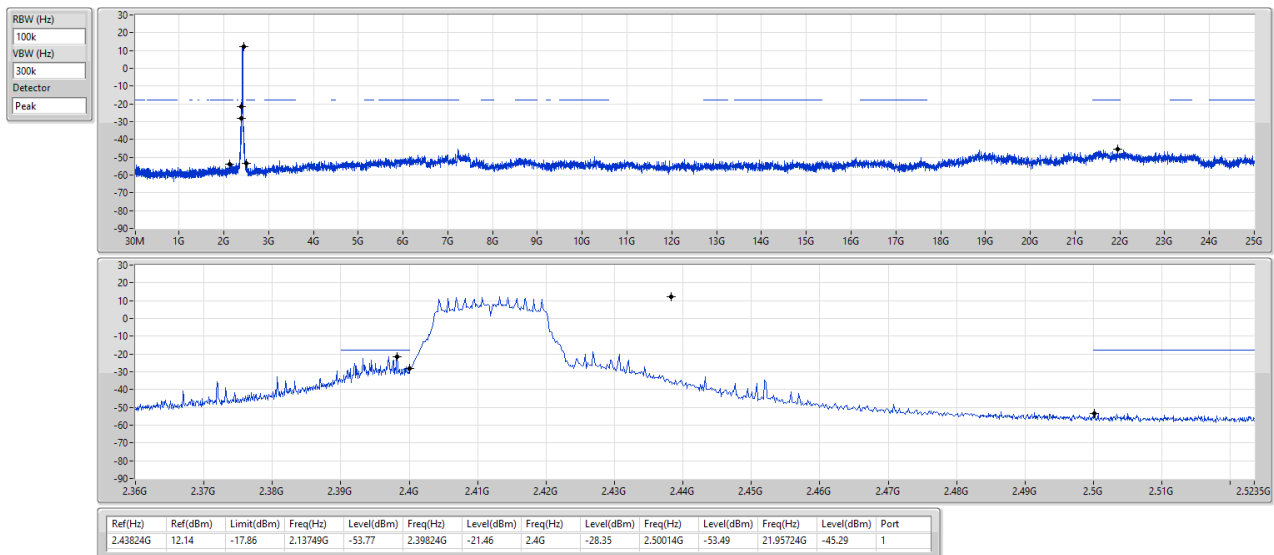
2462MHz



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

CSEndB

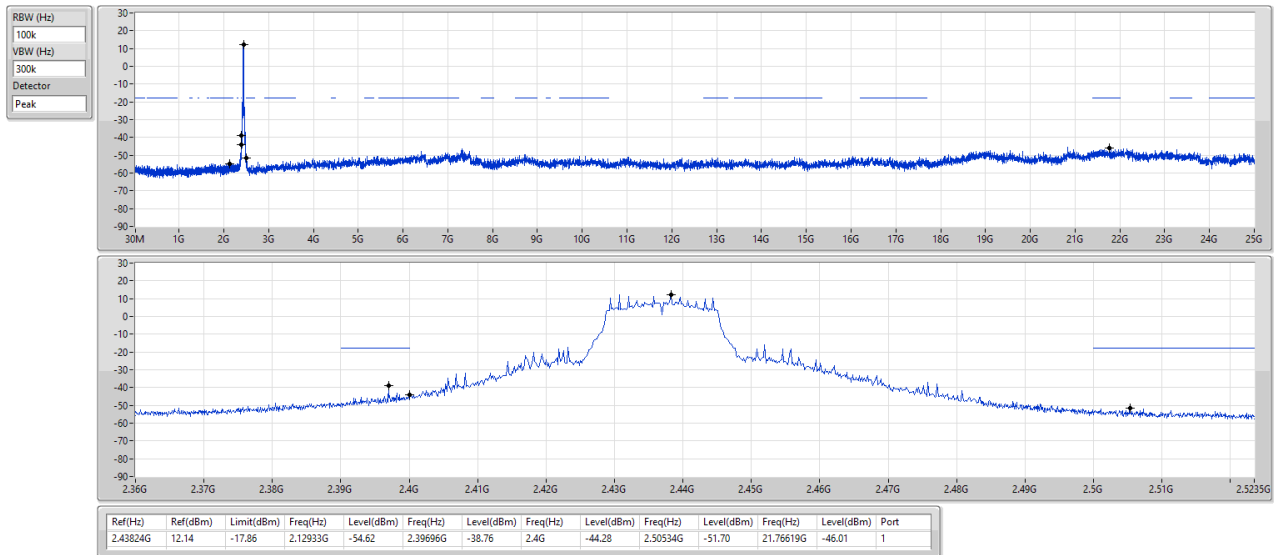
2412MHz



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

CSEndB

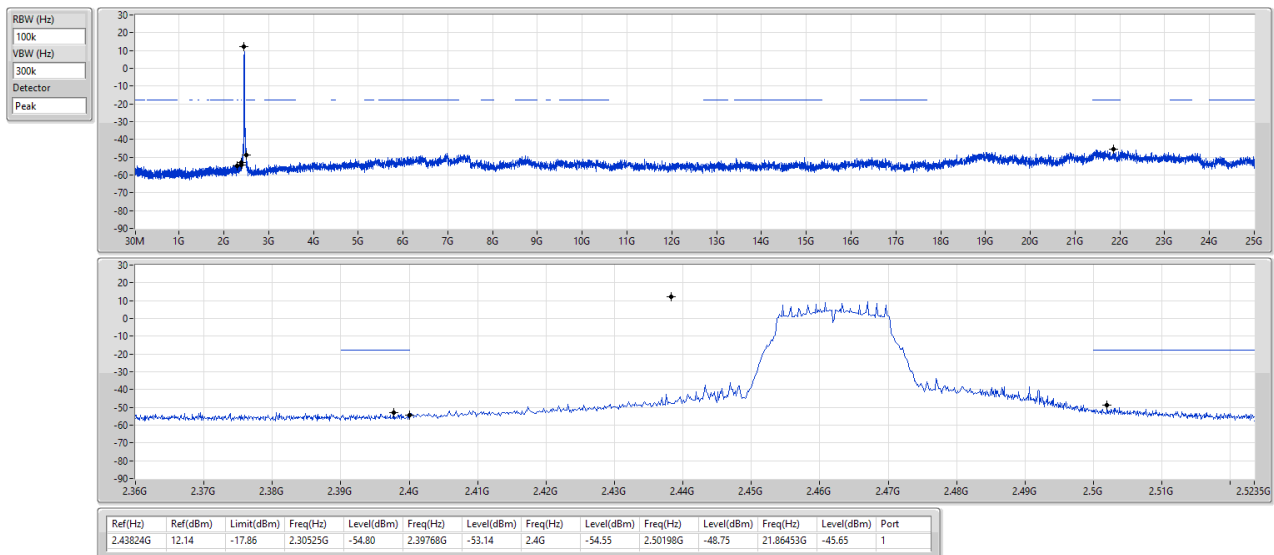
2437MHz



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

CSEndB

2462MHz

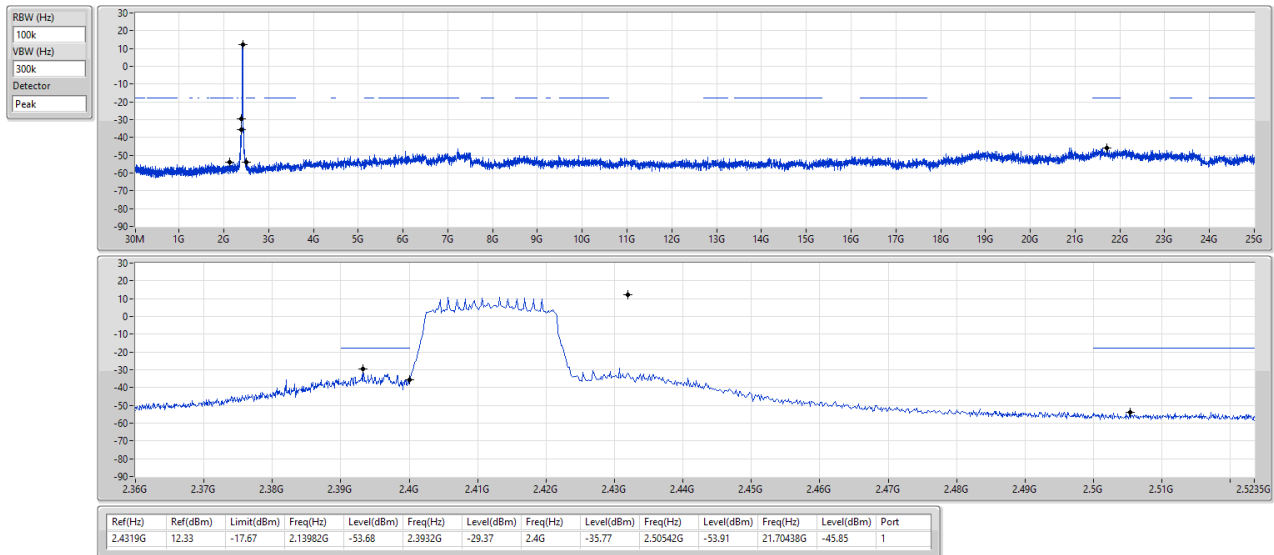


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

CSEndB

2412MHz

31/03/2025

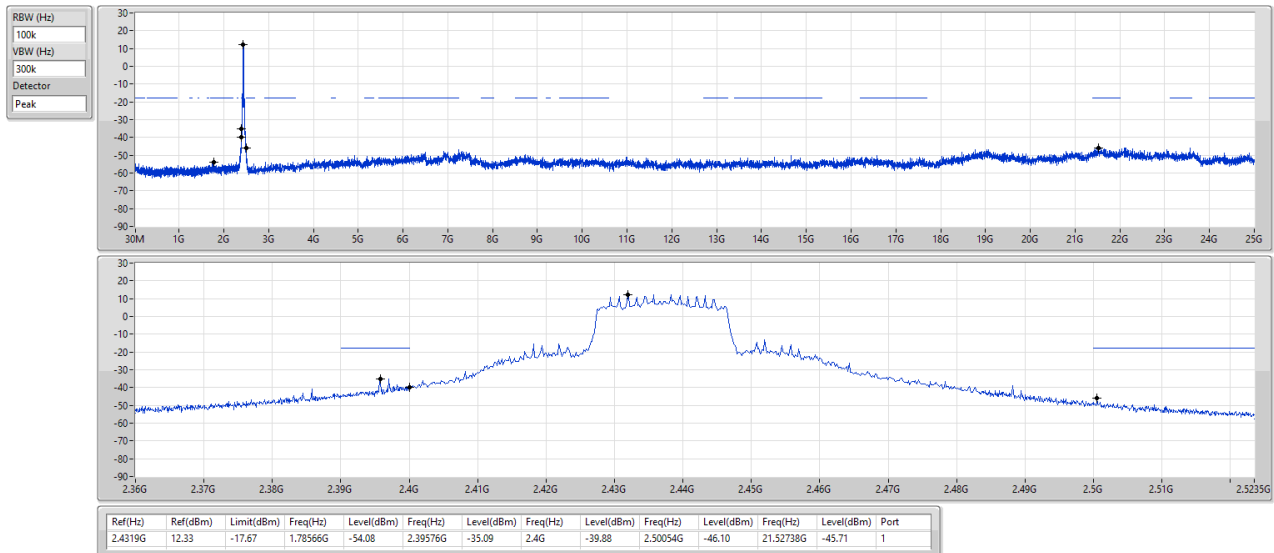


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

CSEndB

2437MHz

31/03/2025

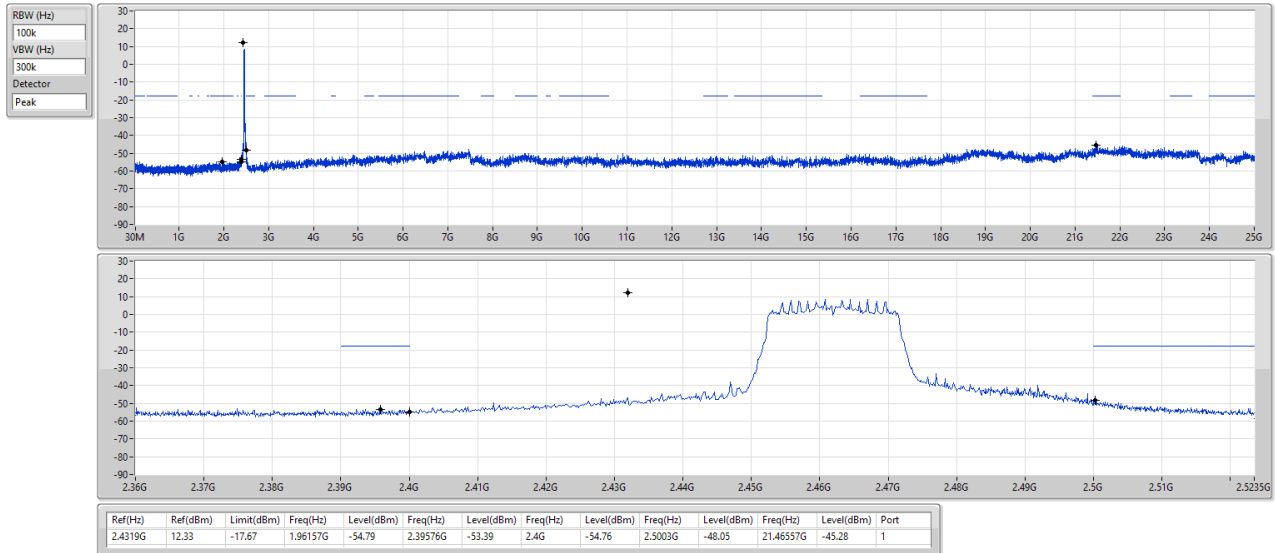


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

CSEndB

2462MHz

31/03/2025





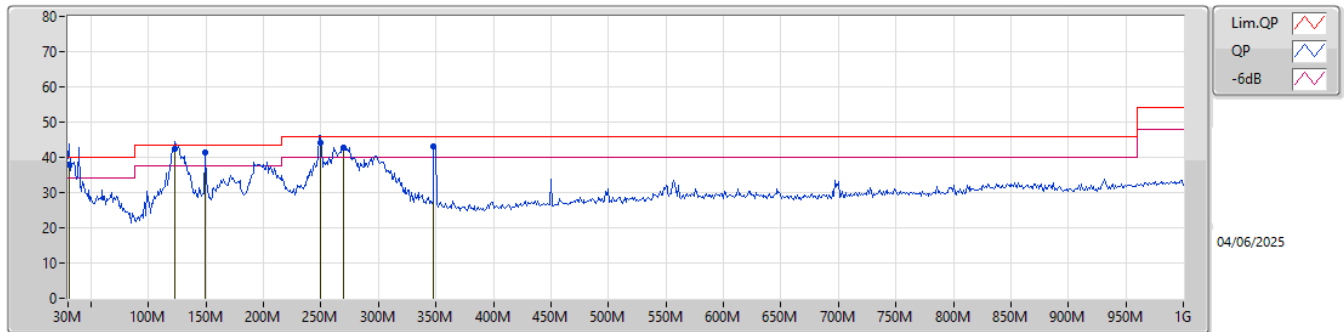
Radiated Emissions below 1GHz

Appendix F.1

Summary

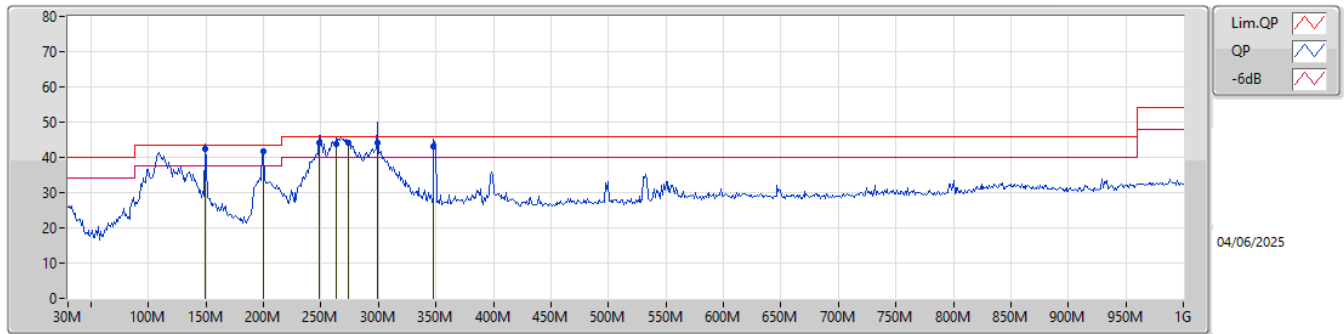
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	QP	149.31M	42.36	43.50	-1.14	Horizontal

Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
QP	30.97M	37.76	40.00	-2.24	-7.50	3	Vertical	290	2.00	-	45.26	23.53	1.15	32.18		
QP	123.12M	42.33	43.50	-1.17	-11.38	3	Vertical	235	1.25	"Worst"	53.71	18.10	2.32	31.80		
PK	149.31M	41.28	43.50	-2.22	-12.86	3	Vertical	107	3.00	-	54.14	16.49	2.58	31.93		
QP	249.22M	44.26	46.00	-1.74	-10.33	3	Vertical	169	1.00	-	54.59	18.21	3.38	31.92		
PK	269.59M	42.64	46.00	-3.36	-9.66	3	Vertical	163	2.00	-	52.30	18.75	3.55	31.96		
PK	348.16M	42.96	46.00	-3.04	-7.78	3	Vertical	120	3.00	-	50.74	20.20	4.05	32.03		

Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
QP	149.31M	42.36	43.50	-1.14	-12.86	3	Horizontal	31	2.00	"Worst"	55.22	16.49	2.58	31.93		
PK	199.75M	41.76	43.50	-1.74	-13.74	3	Horizontal	184	1.50	-	55.50	15.19	2.98	31.91		
QP	248.25M	44.20	46.00	-1.80	-10.45	3	Horizontal	196	1.00	-	54.65	18.09	3.38	31.92		
QP	263.77M	43.75	46.00	-2.25	-9.06	3	Horizontal	200	1.00	-	52.81	19.39	3.50	31.95		
PK	273.47M	44.03	46.00	-1.97	-9.80	3	Horizontal	221	1.25	-	53.83	18.59	3.58	31.97		
QP	298.69M	44.05	46.00	-1.95	-9.15	3	Horizontal	22	1.00	-	53.20	19.10	3.78	32.03		
QP	348.16M	43.02	46.00	-2.98	-7.78	3	Horizontal	48	1.00	-	50.80	20.20	4.05	32.03		

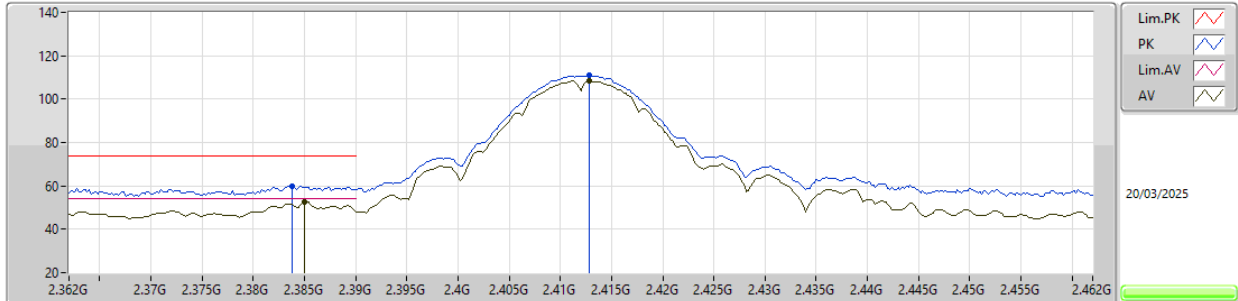


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth	Height	Comments
									(°)	(m)	
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1(6Mbps)_1TX	Pass	AV	2.4836G	52.91	54.00	-1.09	3	Vertical	314	1.20	-

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

2412MHz_TX

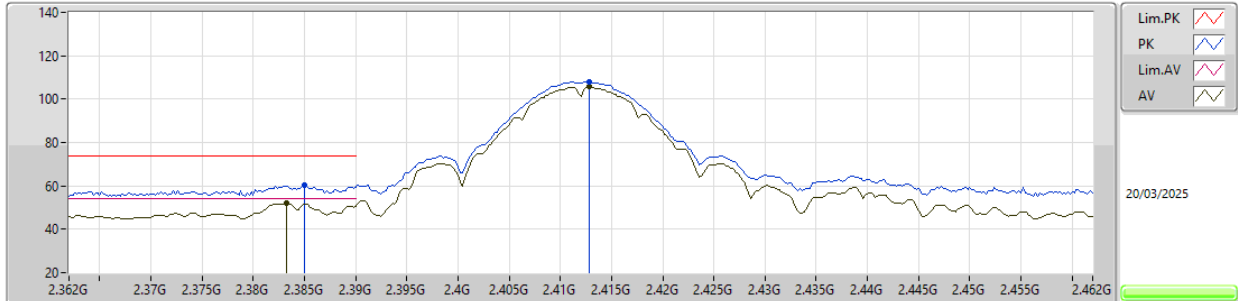


EUT_X_1TX
Setting 95
04-V-E-2

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	2.3838G	59.72	74.00	-14.28	28.74	3	Vertical	133	1.10	-	27.50	3.48	-			
AV	2.385G	52.77	54.00	-1.23	21.79	3	Vertical	133	1.10	-	27.50	3.48	-			
PK	2.4128G	110.99	Inf	-Inf	79.98	3	Vertical	133	1.10	-	27.50	3.51	-			
AV	2.4128G	108.48	Inf	-Inf	77.47	3	Vertical	133	1.10	-	27.50	3.51	-			

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

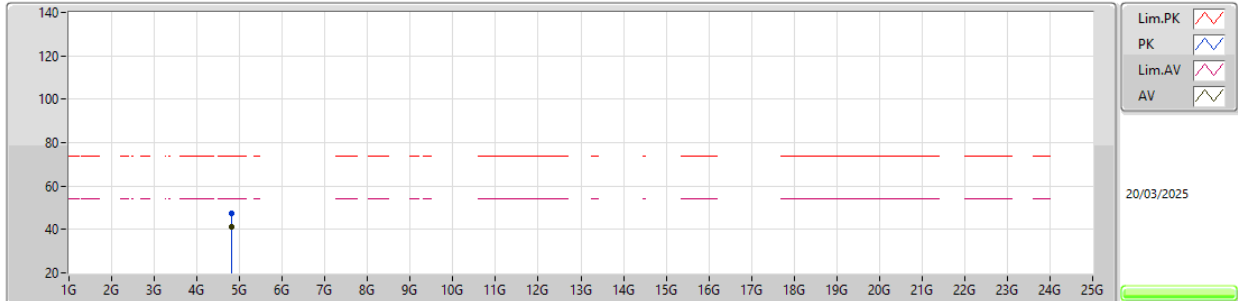
2412MHz_TX

EUT X_1TX
Setting 95
04-V-E-2

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	2.385G	60.09	74.00	-13.91	29.11	3	Horizontal	319	1.10	-	27.50	3.48	-			
AV	2.3832G	51.89	54.00	-2.11	20.91	3	Horizontal	319	1.10	-	27.50	3.48	-			
PK	2.4128G	108.08	Inf	-Inf	77.07	3	Horizontal	319	1.10	-	27.50	3.51	-			
AV	2.4128G	105.69	Inf	-Inf	74.68	3	Horizontal	319	1.10	-	27.50	3.51	-			

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

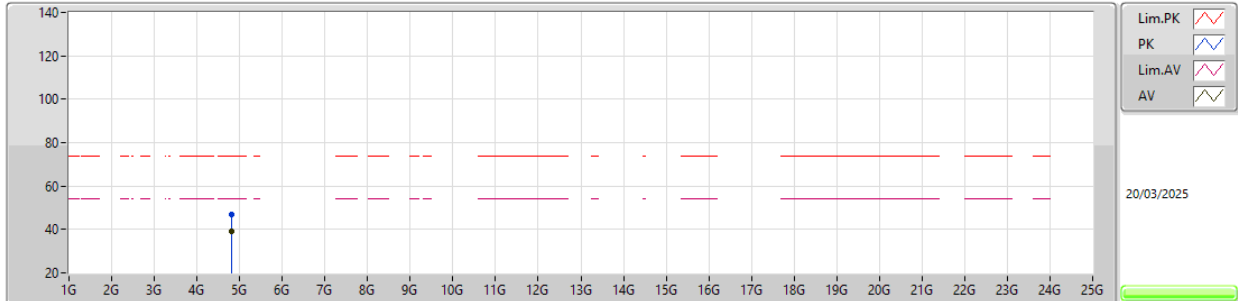
2412MHz_TX

EUT X_1TX
Setting 95
04-V-E-2

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	4.82394G	47.64	74.00	-26.36	54.82	3	Vertical	108	2.31	-	31.30	5.53	44.01			
AV	4.82388G	41.28	54.00	-12.72	48.46	3	Vertical	108	2.31	-	31.30	5.53	44.01			

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

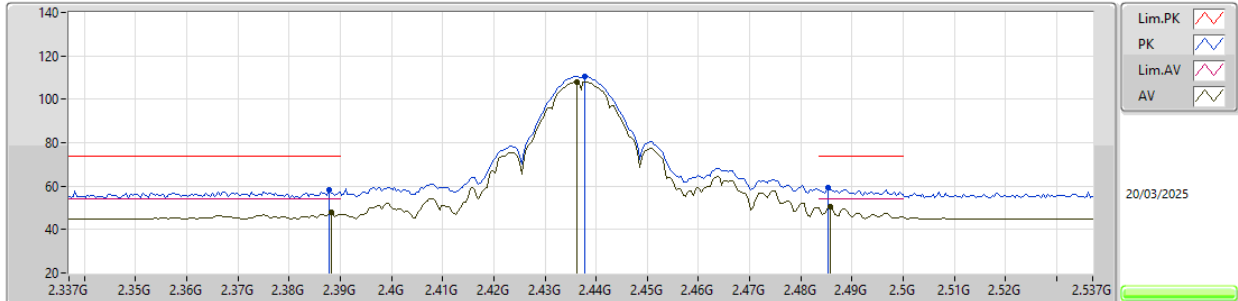
2412MHz_TX

EUT X_1TX
Setting 95
04-V-E-2

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	4.82388G	46.76	74.00	-27.24	53.94	3	Horizontal	247	2.82	-	31.30	5.53	44.01			
AV	4.82394G	39.00	54.00	-15.00	46.18	3	Horizontal	247	2.82	-	31.30	5.53	44.01			

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

2437MHz_TX

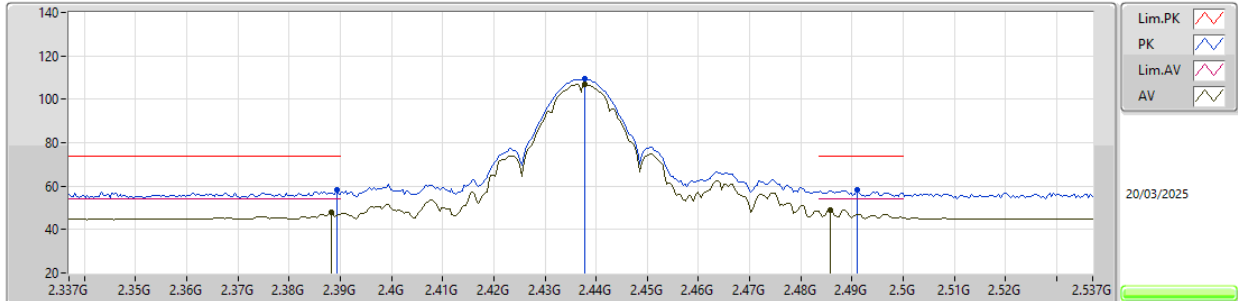


EUT_X_1TX
Setting 100
04-V-E-2

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	2.3878G	58.03	74.00	-15.97	27.04	3	Vertical	320	2.00	-	27.50	3.49	-				
AV	2.3882G	47.68	54.00	-6.32	16.69	3	Vertical	320	2.00	-	27.50	3.49	-				
PK	2.4378G	110.58	Inf	-Inf	79.56	3	Vertical	320	2.00	-	27.50	3.52	-				
AV	2.4362G	108.16	Inf	-Inf	77.14	3	Vertical	320	2.00	-	27.50	3.52	-				
PK	2.4854G	59.06	74.00	-14.94	27.91	3	Vertical	320	2.00	-	27.61	3.54	-				
AV	2.4858G	50.29	54.00	-3.71	19.13	3	Vertical	320	2.00	-	27.62	3.54	-				

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

2437MHz_TX

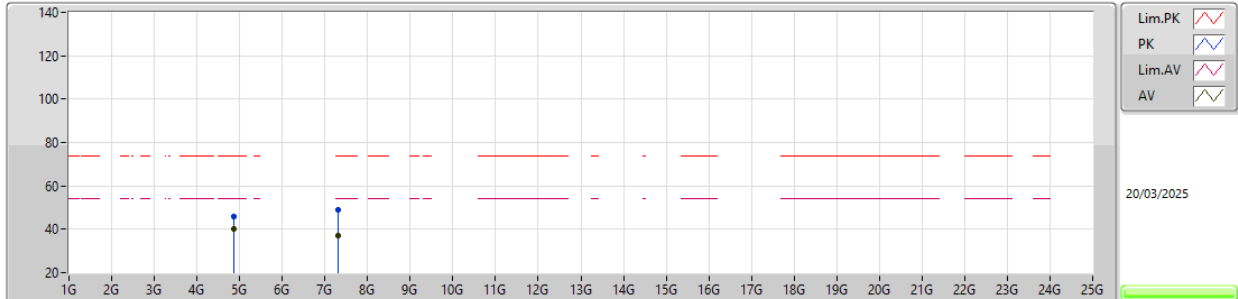


EUT_X_1TX
Setting 100
04-V-E-2

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	58.34	74.00	-15.66	27.35	3	Horizontal	316	1.35	-	27.50	3.49	-			
AV	2.3882G	47.82	54.00	-6.18	16.83	3	Horizontal	316	1.35	-	27.50	3.49	-			
PK	2.4378G	109.36	Inf	-Inf	78.34	3	Horizontal	316	1.35	-	27.50	3.52	-			
AV	2.4378G	106.97	Inf	-Inf	75.95	3	Horizontal	316	1.35	-	27.50	3.52	-			
PK	2.491G	58.48	74.00	-15.52	27.24	3	Horizontal	316	1.35	-	27.69	3.55	-			
AV	2.4858G	49.13	54.00	-4.87	17.97	3	Horizontal	316	1.35	-	27.62	3.54	-			

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

2437MHz_TX

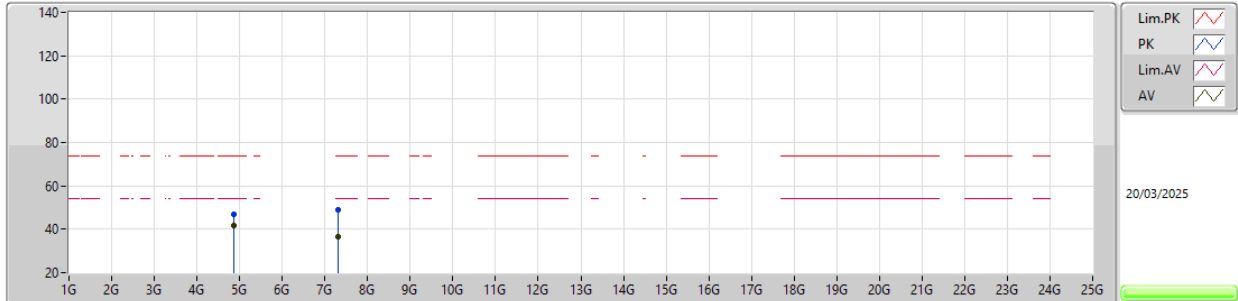


EUT_X_1TX
Setting 100
04-V-E-2

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	4.87406G	45.85	74.00	-28.15	53.02	3	Vertical	37	1.19	-	31.30	5.52	43.99				
AV	4.87394G	40.14	54.00	-13.86	47.31	3	Vertical	37	1.19	-	31.30	5.52	43.99				
PK	7.30902G	49.19	74.00	-24.81	48.32	3	Vertical	257	2.66	-	36.20	7.22	42.55				
AV	7.3119G	37.30	54.00	-16.70	36.43	3	Vertical	257	2.66	-	36.20	7.22	42.55				

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

2437MHz_TX

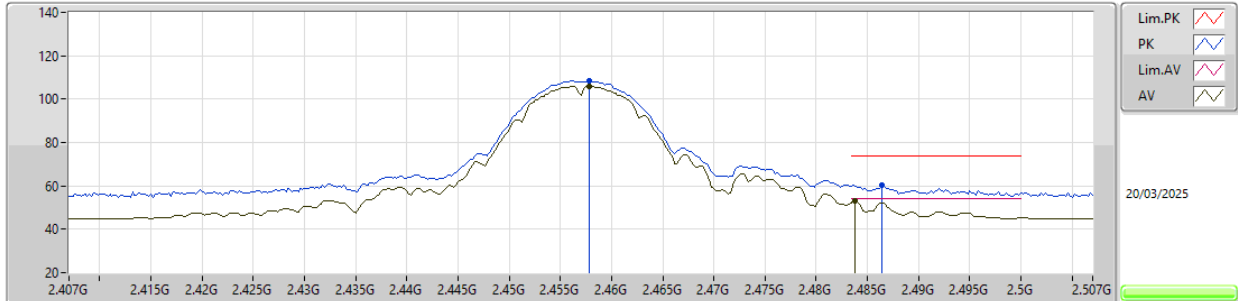


EUT_X_1TX
Setting 100
04-V-E-2

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	4.87418G	46.71	74.00	-27.29	53.88	3	Horizontal	186	1.20	-	31.30	5.52	43.99			
AV	4.87394G	41.49	54.00	-12.51	48.66	3	Horizontal	186	1.20	-	31.30	5.52	43.99			
PK	7.32192G	48.84	74.00	-25.16	47.97	3	Horizontal	116	1.80	-	36.20	7.22	42.55			
AV	7.29672G	36.31	54.00	-17.69	35.45	3	Horizontal	116	1.80	-	36.20	7.22	42.56			

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

2457MHz_TX

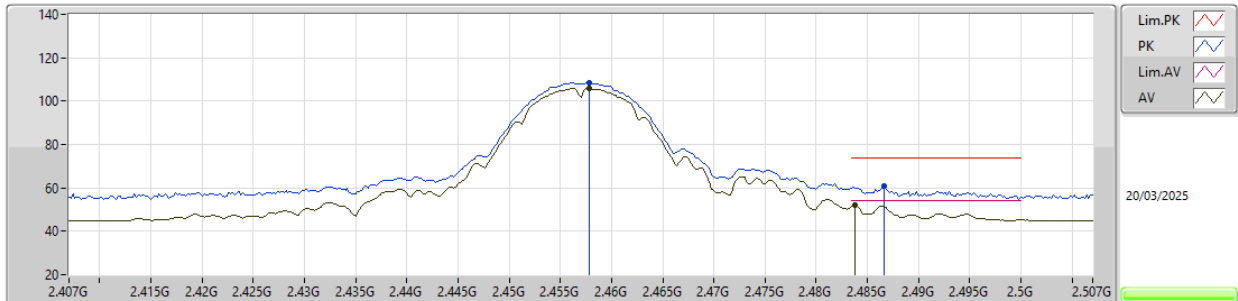


EUT X_1TX
Setting 89
04-V-E-2

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	2.4578G	108.43	Inf	-Inf	77.40	3	Vertical	315	1.12	-	27.50	3.53	-			
AV	2.4578G	106.03	Inf	-Inf	75.00	3	Vertical	315	1.12	-	27.50	3.53	-			
PK	2.4864G	60.21	74.00	-13.79	29.04	3	Vertical	315	1.12	-	27.63	3.54	-			
AV	2.4838G	52.87	54.00	-1.13	21.75	3	Vertical	315	1.12	-	27.58	3.54	-			

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

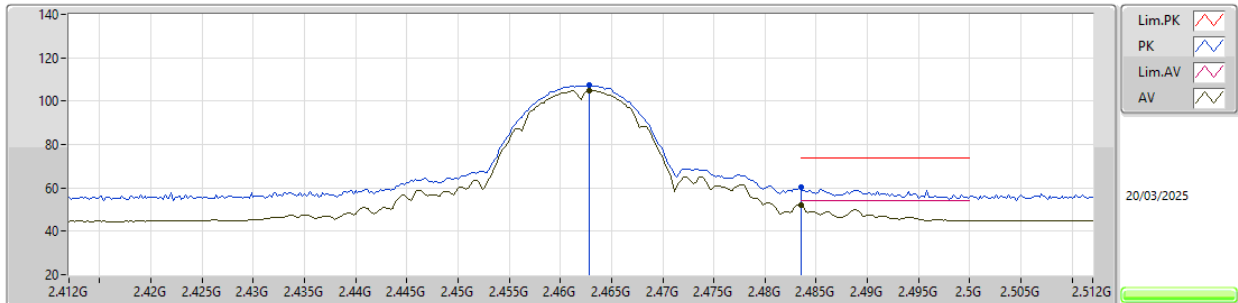
2457MHz_TX

EUT X_1TX
Setting 89
04-V-E-2

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	2.4578G	108.51	Inf	-Inf	77.48	3	Horizontal	315	1.15	-	27.50	3.53	-			
AV	2.4578G	106.00	Inf	-Inf	74.97	3	Horizontal	315	1.15	-	27.50	3.53	-			
PK	2.4866G	60.74	74.00	-13.26	29.57	3	Horizontal	315	1.15	-	27.63	3.54	-			
AV	2.4838G	52.05	54.00	-1.95	20.93	3	Horizontal	315	1.15	-	27.58	3.54	-			

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

2462MHz_TX

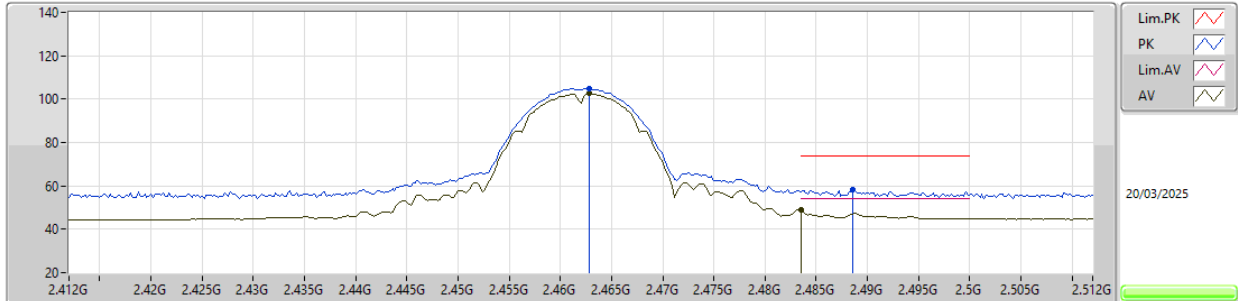


EUT X_1TX
Setting 82
04-V-E-2

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	2.4628G	107.45	Inf	-Inf	76.45	3	Vertical	314	1.20	-	27.47	3.53	-			
AV	2.4628G	105.05	Inf	-Inf	74.05	3	Vertical	314	1.20	-	27.47	3.53	-			
PK	2.4835G	60.13	74.00	-13.87	29.02	3	Vertical	314	1.20	-	27.57	3.54	-			
AV	2.4835G	52.22	54.00	-1.78	21.11	3	Vertical	314	1.20	-	27.57	3.54	-			

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

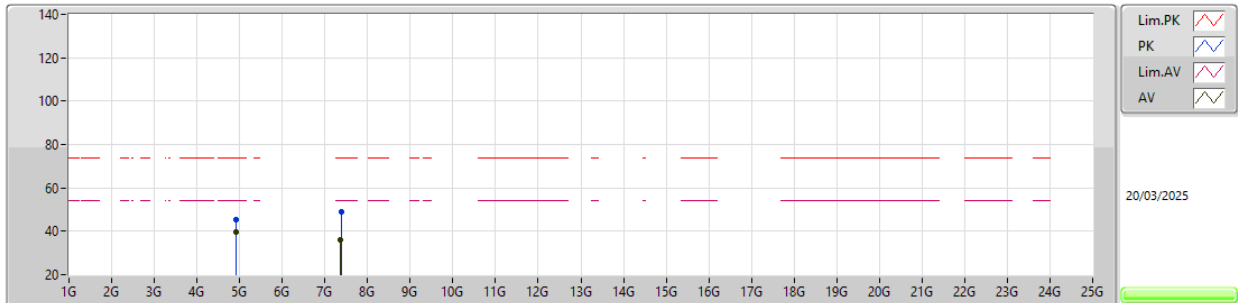
2462MHz_TX

EUT X_1TX
Setting 82
04-V-E-2

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	2.4628G	105.02	Inf	-Inf	74.02	3	Horizontal	318	1.80	-	27.47	3.53	-			
AV	2.4628G	102.59	Inf	-Inf	71.59	3	Horizontal	318	1.80	-	27.47	3.53	-			
PK	2.4886G	58.53	74.00	-15.47	27.32	3	Horizontal	318	1.80	-	27.67	3.54	-			
AV	2.4835G	48.81	54.00	-5.19	17.70	3	Horizontal	318	1.80	-	27.57	3.54	-			

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

2462MHz_TX

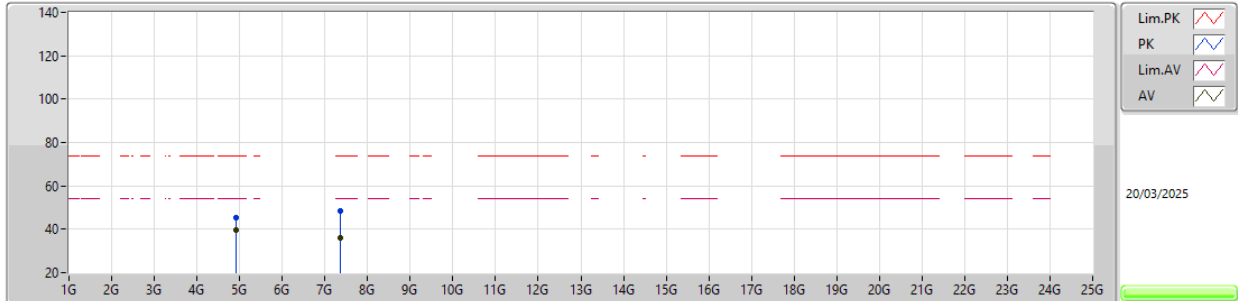


EUT_X_1TX
Setting 82
04-V-E-2

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)			
AV	4.92394G	39.59	54.00	-14.41	46.70	3	Vertical	26	2.34	-	31.35	5.51	43.97			
PK	4.924G	45.56	74.00	-28.44	52.67	3	Vertical	26	2.34	-	31.35	5.51	43.97			
PK	7.3809G	48.72	74.00	-25.28	47.86	3	Vertical	265	1.58	-	36.14	7.23	42.51			
AV	7.3719G	36.07	54.00	-17.93	35.20	3	Vertical	265	1.58	-	36.16	7.23	42.52			

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

2462MHz_TX

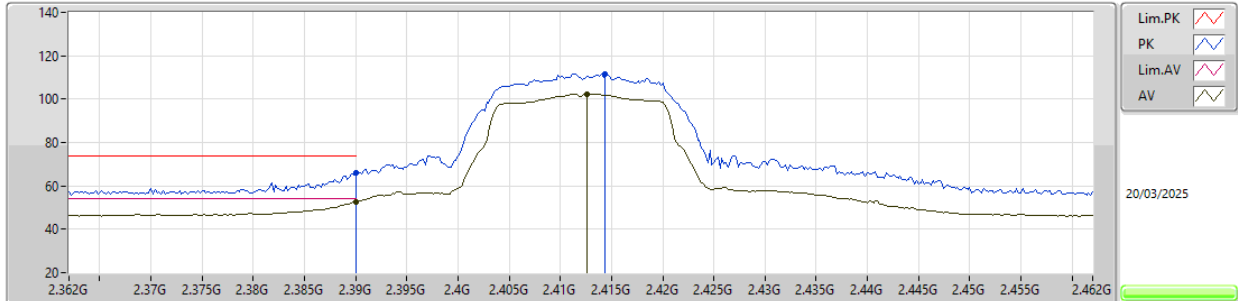


EUT_X_1TX
Setting 82
04-V-E-2

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	4.92376G	45.49	74.00	-28.51	52.60	3	Horizontal	24	2.34	-	31.35	5.51	43.97			
AV	4.92394G	39.88	54.00	-14.12	46.99	3	Horizontal	24	2.34	-	31.35	5.51	43.97			
PK	7.37238G	48.50	74.00	-25.50	47.63	3	Horizontal	244	1.80	-	36.16	7.23	42.52			
AV	7.37226G	36.03	54.00	-17.97	35.16	3	Horizontal	244	1.80	-	36.16	7.23	42.52			

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

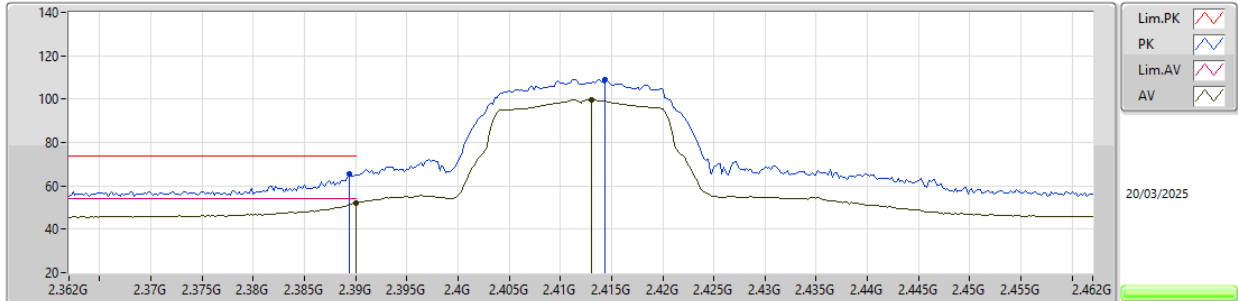
2412MHz_TX

EUT X_1TX
Setting 99
04-V-E-2

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	65.88	74.00	-8.12	34.89	3	Vertical	133	1.12	-	27.50	3.49	-			
AV	2.39G	52.62	54.00	-1.38	21.63	3	Vertical	133	1.12	-	27.50	3.49	-			
PK	2.4144G	111.60	Inf	-Inf	80.59	3	Vertical	133	1.12	-	27.50	3.51	-			
AV	2.4126G	102.34	Inf	-Inf	71.33	3	Vertical	133	1.12	-	27.50	3.51	-			

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

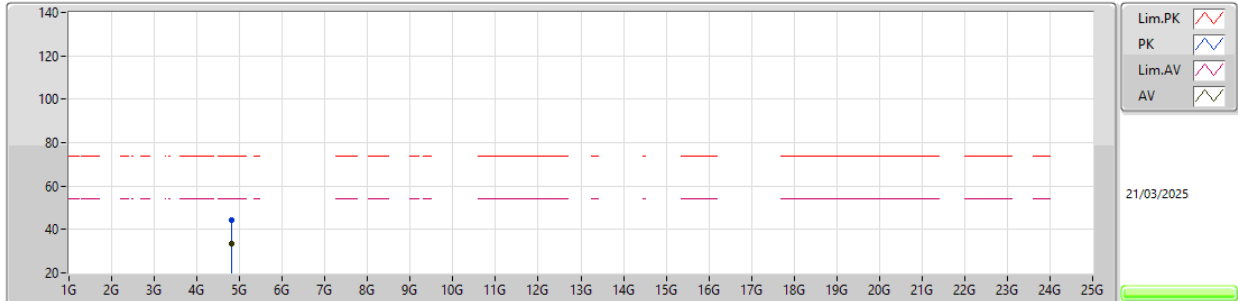
2412MHz_TX

EUT X_1TX
Setting 99
04-V-E-2

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	65.65	74.00	-8.35	34.66	3	Horizontal	319	1.12	-	27.50	3.49	-			
AV	2.39G	52.00	54.00	-2.00	21.01	3	Horizontal	319	1.12	-	27.50	3.49	-			
PK	2.4144G	108.82	Inf	-Inf	77.81	3	Horizontal	319	1.12	-	27.50	3.51	-			
AV	2.413G	99.64	Inf	-Inf	68.63	3	Horizontal	319	1.12	-	27.50	3.51	-			

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

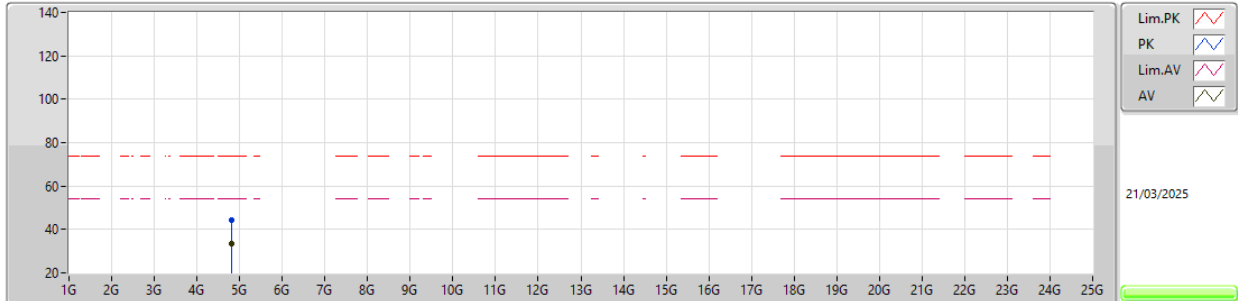
2412MHz_TX

EUT X_1TX
Setting 99
04-V-E-2

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	4.818G	44.08	74.00	-29.92	51.25	3	Vertical	157	1.13	-	31.30	5.54	44.01			
AV	4.82394G	33.64	54.00	-20.36	40.82	3	Vertical	157	1.13	-	31.30	5.53	44.01			

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

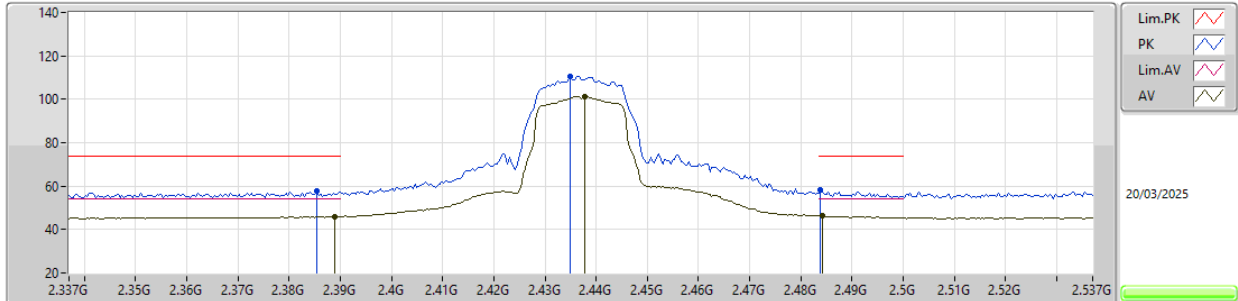
2412MHz_TX

EUT X_1TX
Setting 99
04-V-E-2

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	4.82394G	44.32	74.00	-29.68	51.50	3	Horizontal	161	1.00	-	31.30	5.53	44.01			
AV	4.824G	33.43	54.00	-20.57	40.61	3	Horizontal	161	1.00	-	31.30	5.53	44.01			

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

2437MHz_TX

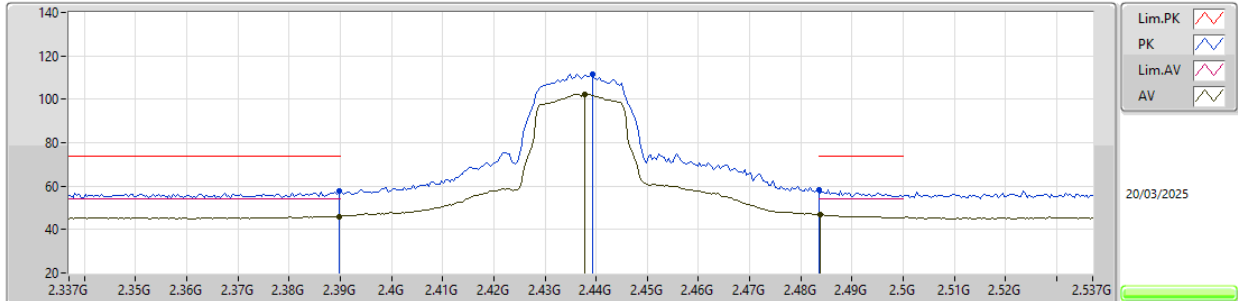


EUT_X_1TX
Setting 100
04-V-E-2

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	2.3854G	57.56	74.00	-16.44	26.58	3	Vertical	323	2.00	-	27.50	3.48	-			
AV	2.389G	46.01	54.00	-7.99	15.02	3	Vertical	323	2.00	-	27.50	3.49	-			
PK	2.435G	110.43	Inf	-Inf	79.41	3	Vertical	323	2.00	-	27.50	3.52	-			
AV	2.4378G	101.12	Inf	-Inf	70.10	3	Vertical	323	2.00	-	27.50	3.52	-			
PK	2.4838G	58.30	74.00	-15.70	27.18	3	Vertical	323	2.00	-	27.58	3.54	-			
AV	2.4842G	46.27	54.00	-7.73	15.15	3	Vertical	323	2.00	-	27.58	3.54	-			

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

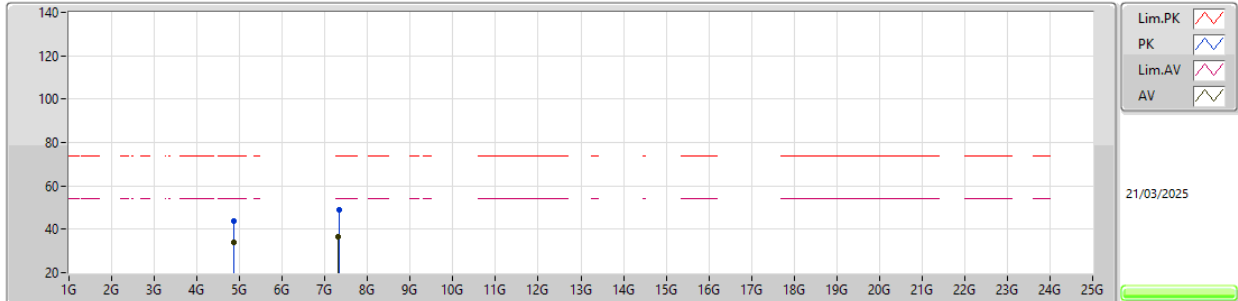
2437MHz_TX

EUT X_1TX
Setting 100
04-V-E-2

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	57.54	74.00	-16.46	26.55	3	Horizontal	360	2.76	-	27.50	3.49	-			
AV	2.3898G	46.12	54.00	-7.88	15.13	3	Horizontal	360	2.76	-	27.50	3.49	-			
PK	2.4394G	111.59	Inf	-Inf	80.57	3	Horizontal	360	2.76	-	27.50	3.52	-			
AV	2.4378G	102.44	Inf	-Inf	71.42	3	Horizontal	360	2.76	-	27.50	3.52	-			
PK	2.4835G	58.46	74.00	-15.54	27.35	3	Horizontal	360	2.76	-	27.57	3.54	-			
AV	2.4838G	46.73	54.00	-7.27	15.61	3	Horizontal	360	2.76	-	27.58	3.54	-			

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

2437MHz_TX

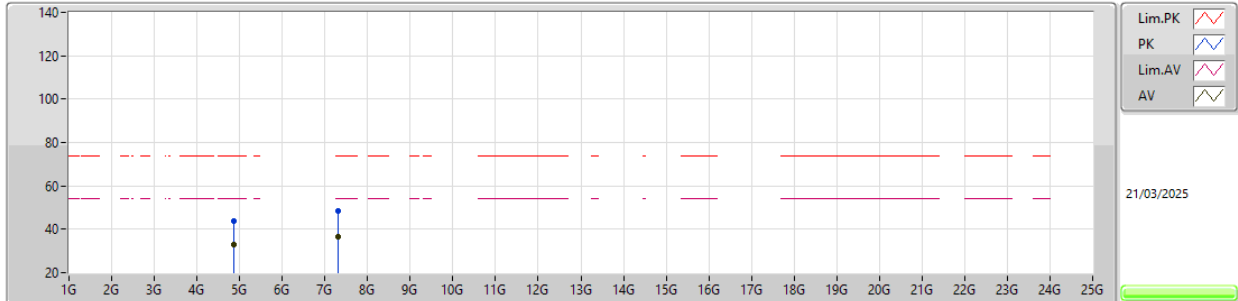


EUT X_1TX
Setting 100
04-V-E-2

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	43.82	74.00	-30.18	50.99	3	Vertical	110	2.18	-	31.30	5.52	43.99				
AV	4.87388G	33.76	54.00	-20.24	40.93	3	Vertical	110	2.18	-	31.30	5.52	43.99				
PK	7.32384G	49.05	74.00	-24.95	48.18	3	Vertical	198	1.80	-	36.20	7.22	42.55				
AV	7.30146G	36.75	54.00	-17.25	35.89	3	Vertical	198	1.80	-	36.20	7.22	42.56				

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

2437MHz_TX

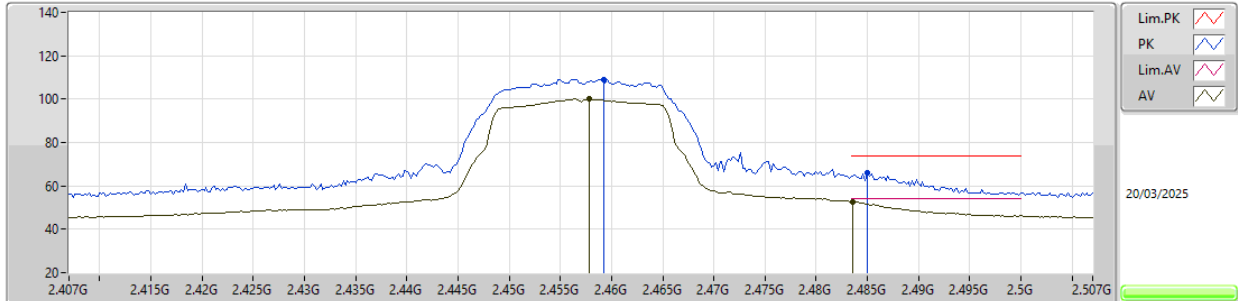


EUT_X_1TX
Setting 100
04-V-E-2

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	4.87418G	43.69	74.00	-30.31	50.86	3	Horizontal	28	1.17	-	31.30	5.52	43.99			
AV	4.87394G	33.10	54.00	-20.90	40.27	3	Horizontal	28	1.17	-	31.30	5.52	43.99			
PK	7.32072G	48.34	74.00	-25.66	47.47	3	Horizontal	271	1.01	-	36.20	7.22	42.55			
AV	7.29816G	36.58	54.00	-17.42	35.72	3	Horizontal	271	1.01	-	36.20	7.22	42.56			

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

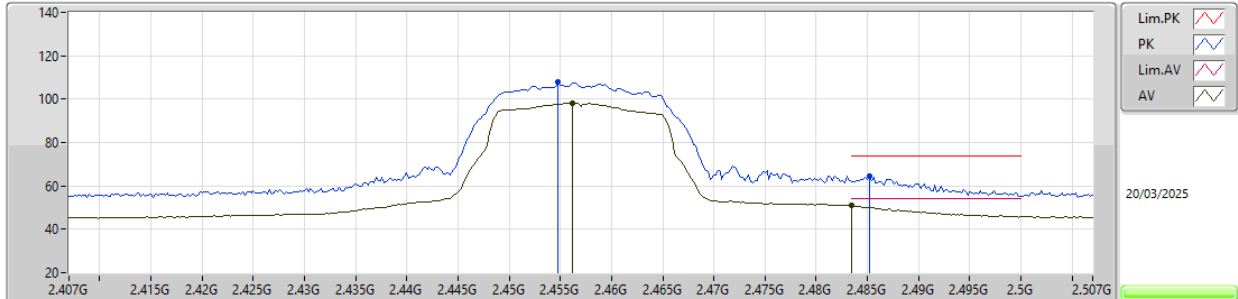
2457MHz_TX

EUT_X_1TX
Setting 89
04-V-E-2

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	2.4592G	109.22	Inf	-Inf	78.19	3	Vertical	315	1.12	-	27.50	3.53	-			
AV	2.4578G	99.95	Inf	-Inf	68.92	3	Vertical	315	1.12	-	27.50	3.53	-			
PK	2.485G	65.83	74.00	-8.17	34.69	3	Vertical	315	1.12	-	27.60	3.54	-			
AV	2.4836G	52.61	54.00	-1.39	21.50	3	Vertical	315	1.12	-	27.57	3.54	-			

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

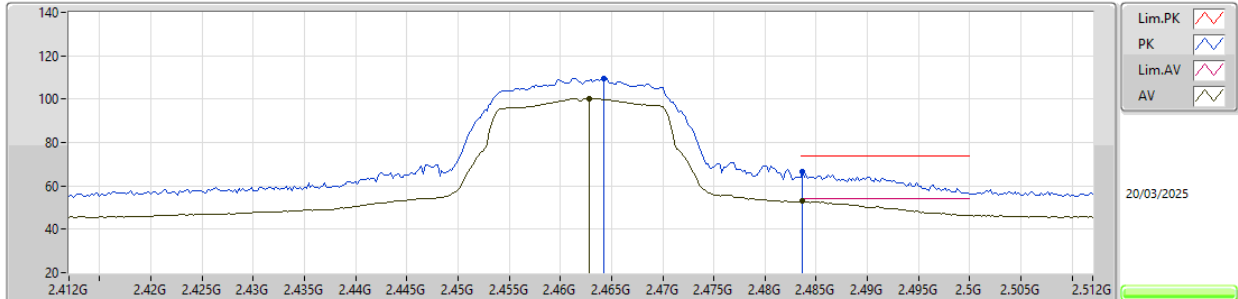
2457MHz_TX

EUT X_1TX
Setting 89
04-V-E-2

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	2.4548G	107.72	Inf	-Inf	76.69	3	Horizontal	316	1.24	-	27.50	3.53	-			
AV	2.4562G	98.20	Inf	-Inf	67.17	3	Horizontal	316	1.24	-	27.50	3.53	-			
PK	2.4852G	64.35	74.00	-9.65	33.21	3	Horizontal	316	1.24	-	27.60	3.54	-			
AV	2.4835G	50.79	54.00	-3.21	19.68	3	Horizontal	316	1.24	-	27.57	3.54	-			

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

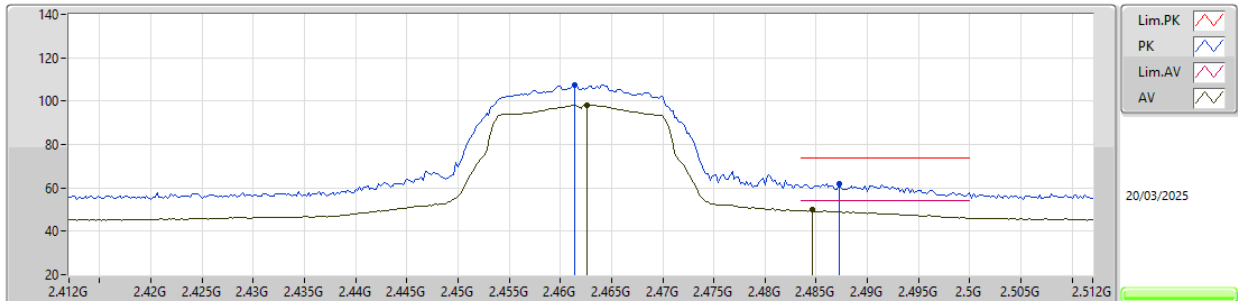
2462MHz_TX

EUT X_1TX
Setting 84
04-V-E-2

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	2.4642G	109.62	Inf	-Inf	78.63	3	Vertical	314	1.20	-	27.46	3.53	-			
AV	2.4628G	100.42	Inf	-Inf	69.42	3	Vertical	314	1.20	-	27.47	3.53	-			
PK	2.4836G	66.36	74.00	-7.64	35.25	3	Vertical	314	1.20	-	27.57	3.54	-			
AV	2.4836G	52.91	54.00	-1.09	21.80	3	Vertical	314	1.20	-	27.57	3.54	-			

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

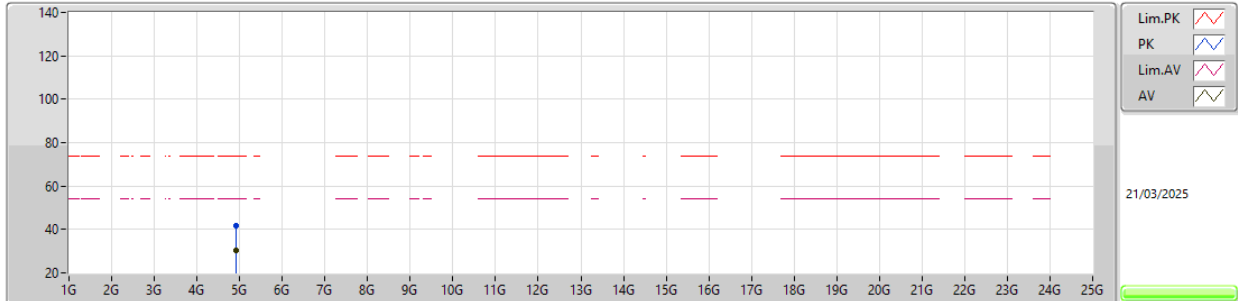
2462MHz_TX

EUT X_1TX
Setting 84
04-V-E-2

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	2.4614G	107.28	Inf	-Inf	76.26	3	Horizontal	316	1.80	-	27.49	3.53	-			
AV	2.4626G	98.14	Inf	-Inf	67.14	3	Horizontal	316	1.80	-	27.47	3.53	-			
PK	2.4872G	61.87	74.00	-12.13	30.69	3	Horizontal	316	1.80	-	27.64	3.54	-			
AV	2.4846G	49.83	54.00	-4.17	18.70	3	Horizontal	316	1.80	-	27.59	3.54	-			

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

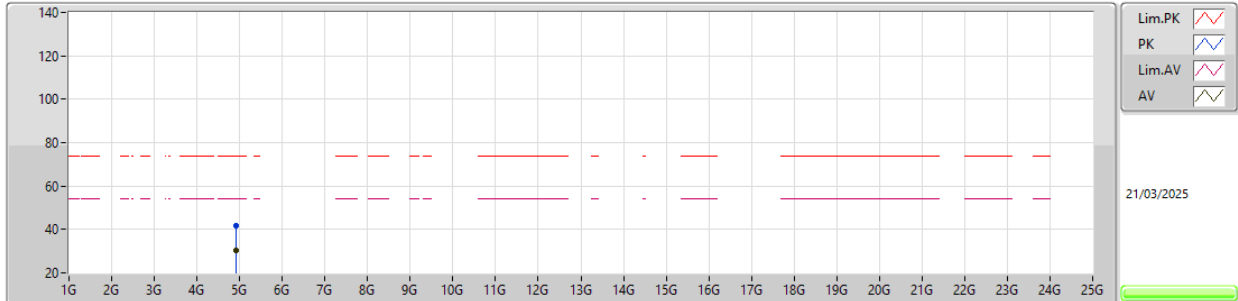
2462MHz_TX

EUT X_1TX
Setting 84
04-V-E-2

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	4.91878G	41.83	74.00	-32.17	48.96	3	Vertical	109	2.23	-	31.34	5.51	43.98				
AV	4.92754G	30.42	54.00	-23.58	37.52	3	Vertical	109	2.23	-	31.36	5.51	43.97				

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

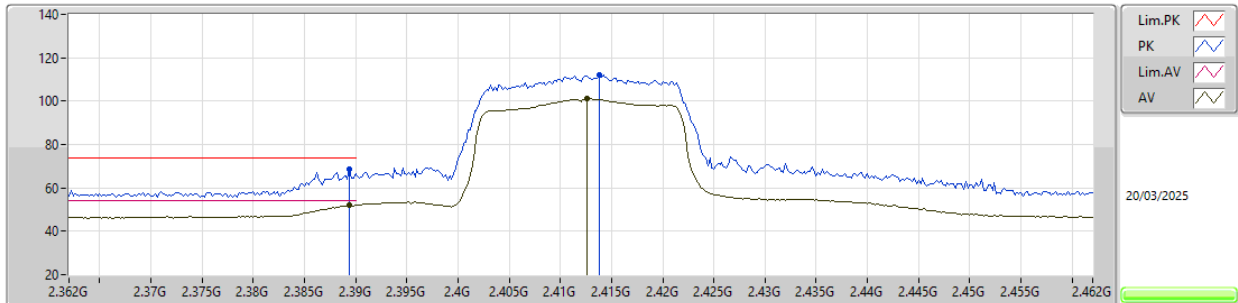
2462MHz_TX

EUT X_1TX
Setting 84
04-V-E-2

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	4.91218G	41.67	74.00	-32.33	48.82	3	Horizontal	357	1.44	-	31.32	5.51	43.98			
AV	4.91458G	30.25	54.00	-23.75	37.39	3	Horizontal	357	1.44	-	31.33	5.51	43.98			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

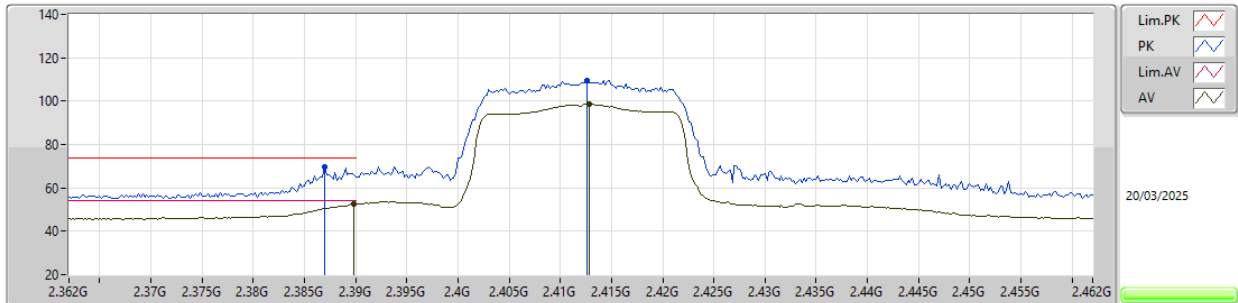
2412MHz_TX

EUT X_1TX
Setting 94
04-V-E-2

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	68.51	74.00	-5.49	37.52	3	Vertical	134	1.08	-	27.50	3.49	-			
AV	2.3894G	52.04	54.00	-1.96	21.05	3	Vertical	134	1.08	-	27.50	3.49	-			
PK	2.4138G	111.95	Inf	-Inf	80.94	3	Vertical	134	1.08	-	27.50	3.51	-			
AV	2.4126G	101.04	Inf	-Inf	70.03	3	Vertical	134	1.08	-	27.50	3.51	-			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

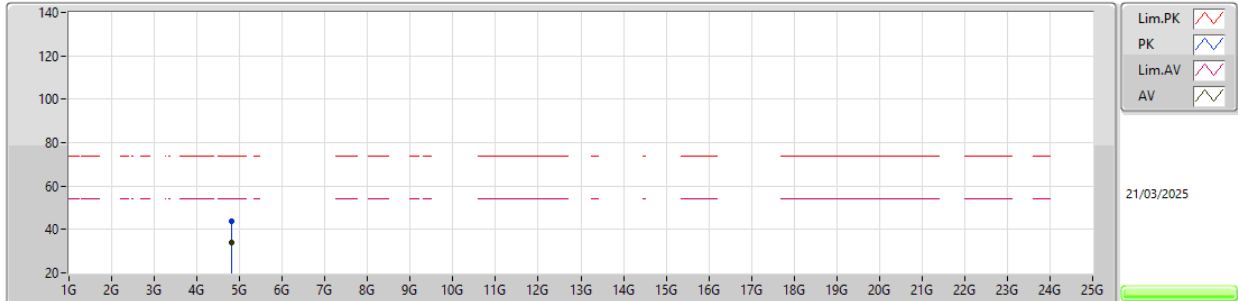
2412MHz_TX

EUT_X_1TX
Setting 94
04-V-E-2

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	2.387G	69.44	74.00	-4.56	38.45	3	Horizontal	320	1.11	-	27.50	3.49	-			
AV	2.3898G	52.36	54.00	-1.64	21.37	3	Horizontal	320	1.11	-	27.50	3.49	-			
PK	2.4126G	109.61	Inf	-Inf	78.60	3	Horizontal	320	1.11	-	27.50	3.51	-			
AV	2.4128G	98.62	Inf	-Inf	67.61	3	Horizontal	320	1.11	-	27.50	3.51	-			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

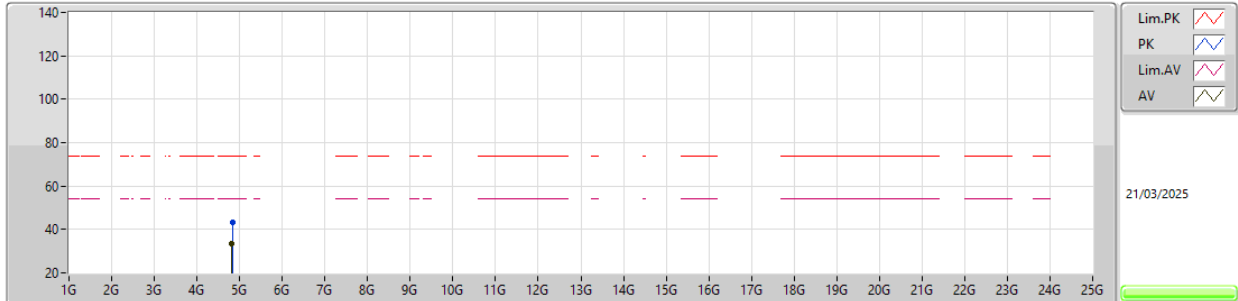
2412MHz_TX

EUT X_1TX
Setting 94
04-V-E-2

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	4.82394G	43.81	74.00	-30.19	50.99	3	Vertical	107	2.19	-	31.30	5.53	44.01			
AV	4.82394G	33.78	54.00	-20.22	40.96	3	Vertical	107	2.19	-	31.30	5.53	44.01			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

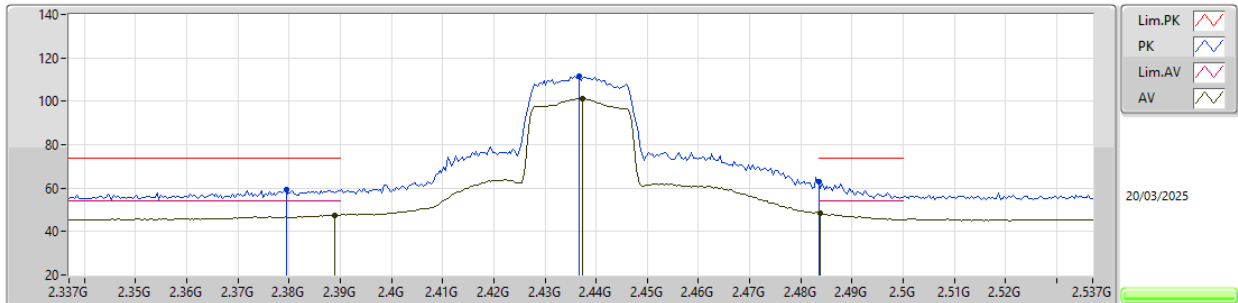
2412MHz_TX

EUT X_1TX
Setting 94
04-V-E-2

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	4.83096G	43.19	74.00	-30.81	50.36	3	Horizontal	158	1.00	-	31.30	5.53	44.00				
AV	4.82394G	33.27	54.00	-20.73	40.45	3	Horizontal	158	1.00	-	31.30	5.53	44.01				

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

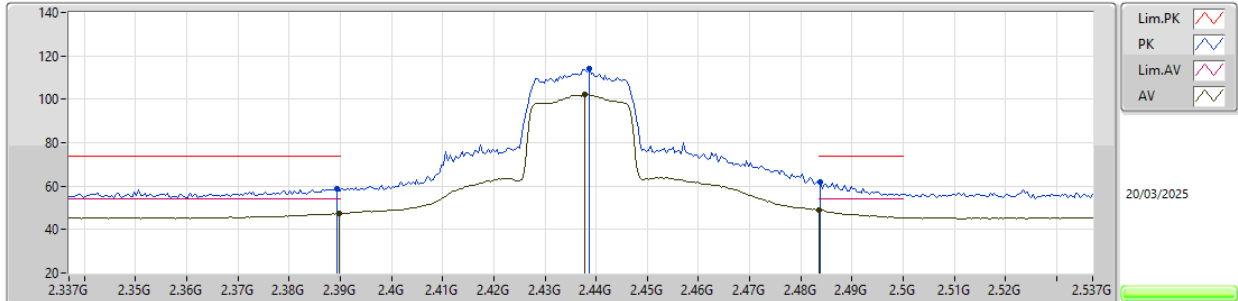
2437MHz_TX

EUT X_1TX
Setting 100
04-V-E-2

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	59.23	74.00	-14.77	28.24	3	Vertical	315	1.73	-	27.51	3.48	-			
AV	2.389G	47.64	54.00	-6.36	16.65	3	Vertical	315	1.73	-	27.50	3.49	-			
PK	2.4366G	111.54	Inf	-Inf	80.52	3	Vertical	315	1.73	-	27.50	3.52	-			
AV	2.4374G	101.19	Inf	-Inf	70.17	3	Vertical	315	1.73	-	27.50	3.52	-			
PK	2.4835G	62.82	74.00	-11.18	31.71	3	Vertical	315	1.73	-	27.57	3.54	-			
AV	2.4838G	48.40	54.00	-5.60	17.28	3	Vertical	315	1.73	-	27.58	3.54	-			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

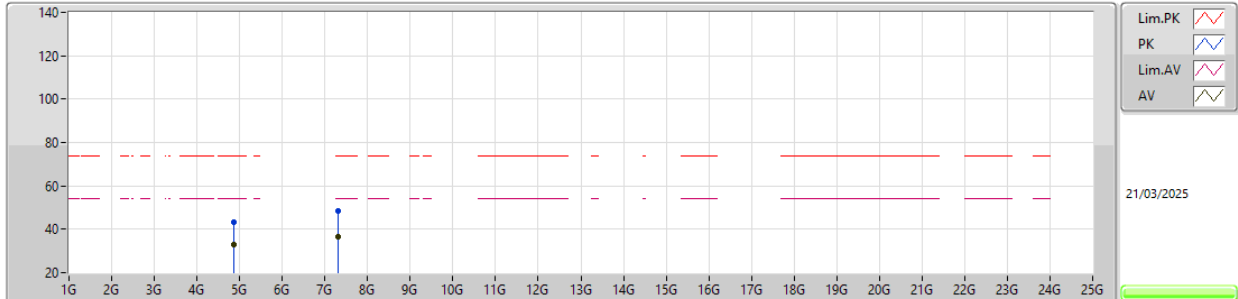
2437MHz_TX

EUT X_1TX
Setting 100
04-V-E-2

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	58.65	74.00	-15.35	27.66	3	Horizontal	360	2.78	-	27.50	3.49	-			
AV	2.3898G	47.53	54.00	-6.47	16.54	3	Horizontal	360	2.78	-	27.50	3.49	-			
PK	2.4386G	113.89	Inf	-Inf	82.87	3	Horizontal	360	2.78	-	27.50	3.52	-			
AV	2.4378G	102.28	Inf	-Inf	71.26	3	Horizontal	360	2.78	-	27.50	3.52	-			
PK	2.4838G	62.12	74.00	-11.88	31.00	3	Horizontal	360	2.78	-	27.58	3.54	-			
AV	2.4835G	49.10	54.00	-4.90	17.99	3	Horizontal	360	2.78	-	27.57	3.54	-			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

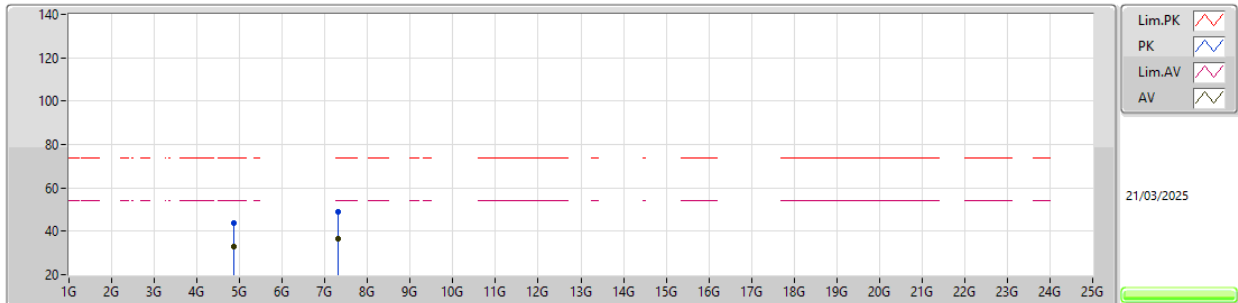


EUT X_1TX
Setting 100
04-V-E-2

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	4.87346G	43.35	74.00	-30.65	50.52	3	Vertical	30	1.09	-	31.30	5.52	43.99			
AV	4.87394G	33.04	54.00	-20.96	40.21	3	Vertical	30	1.09	-	31.30	5.52	43.99			
PK	7.31406G	48.36	74.00	-25.64	47.49	3	Vertical	227	2.23	-	36.20	7.22	42.55			
AV	7.29624G	36.64	54.00	-17.36	35.78	3	Vertical	227	2.23	-	36.20	7.22	42.56			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

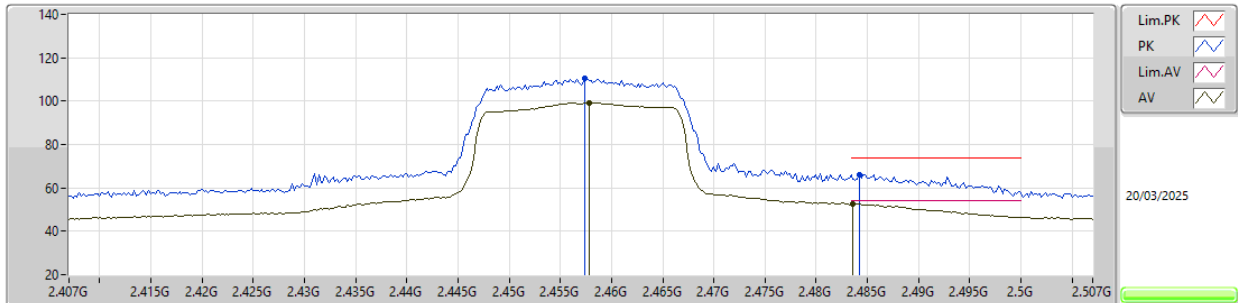


EUT_X_1TX
Setting 100
04-V-E-2

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	4.87412G	43.68	74.00	-30.32	50.85	3	Horizontal	160	1.01	-	31.30	5.52	43.99			
AV	4.87388G	33.12	54.00	-20.88	40.29	3	Horizontal	160	1.01	-	31.30	5.52	43.99			
PK	7.30482G	49.09	74.00	-24.91	48.23	3	Horizontal	120	1.80	-	36.20	7.22	42.56			
AV	7.29816G	36.75	54.00	-17.25	35.89	3	Horizontal	120	1.80	-	36.20	7.22	42.56			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

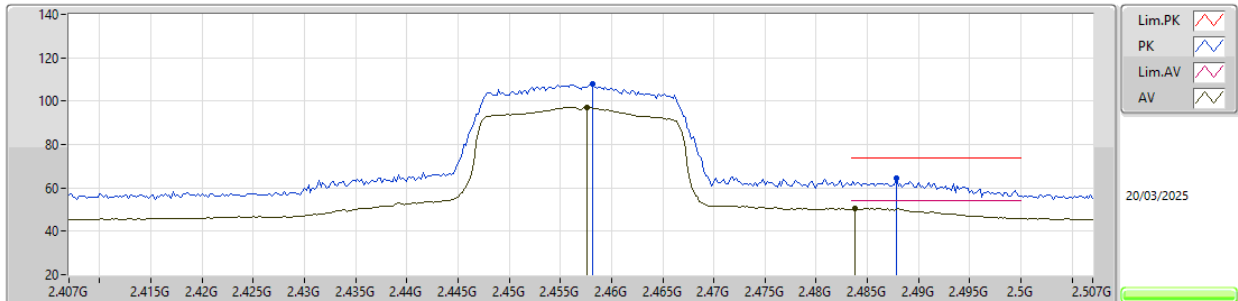
2457MHz_TX

EUT X_1TX
Setting 85
04-V-E-2

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	2.4574G	110.33	Inf	-Inf	79.30	3	Vertical	314	1.16	-	27.50	3.53	-			
AV	2.4578G	99.28	Inf	-Inf	68.25	3	Vertical	314	1.16	-	27.50	3.53	-			
PK	2.4842G	66.23	74.00	-7.77	35.11	3	Vertical	314	1.16	-	27.58	3.54	-			
AV	2.4836G	52.69	54.00	-1.31	21.58	3	Vertical	314	1.16	-	27.57	3.54	-			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

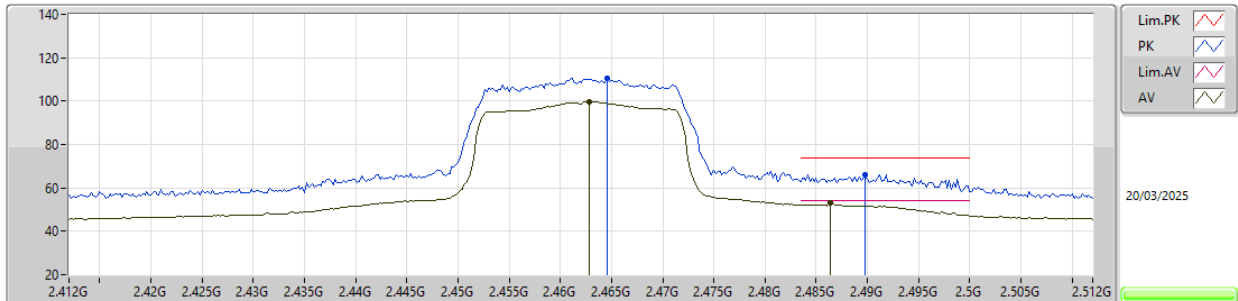
2457MHz_TX

EUT X_1TX
Setting 85
04-V-E-2

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	107.91	Inf	-Inf	76.88	3	Horizontal	319	1.26	-	27.50	3.53	-			
AV	2.4576G	97.15	Inf	-Inf	66.12	3	Horizontal	319	1.26	-	27.50	3.53	-			
PK	2.4878G	64.42	74.00	-9.58	33.22	3	Horizontal	319	1.26	-	27.66	3.54	-			
AV	2.4838G	50.55	54.00	-3.45	19.43	3	Horizontal	319	1.26	-	27.58	3.54	-			

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

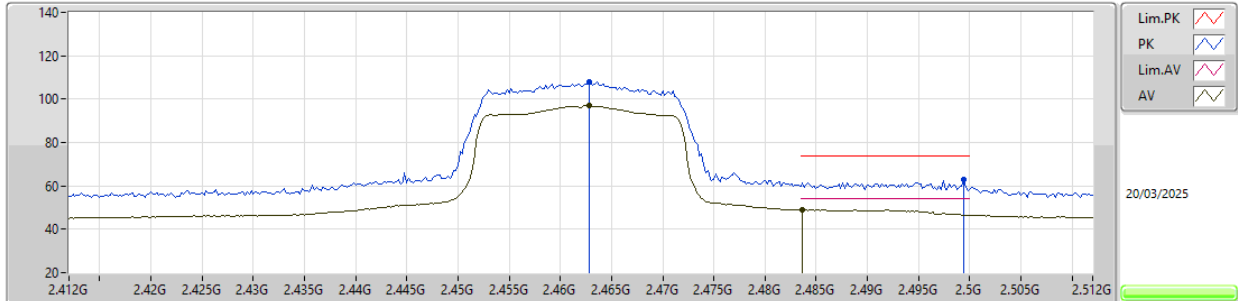
2462MHz_TX

EUT X_1TX
Setting 82
04-V-E-2

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	2.4646G	110.61	Inf	-Inf	79.63	3	Vertical	310	1.19	-	27.45	3.53	-			
AV	2.4628G	99.78	Inf	-Inf	68.78	3	Vertical	310	1.19	-	27.47	3.53	-			
PK	2.4898G	66.04	74.00	-7.96	34.80	3	Vertical	310	1.19	-	27.70	3.54	-			
AV	2.4864G	52.86	54.00	-1.14	21.69	3	Vertical	310	1.19	-	27.63	3.54	-			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

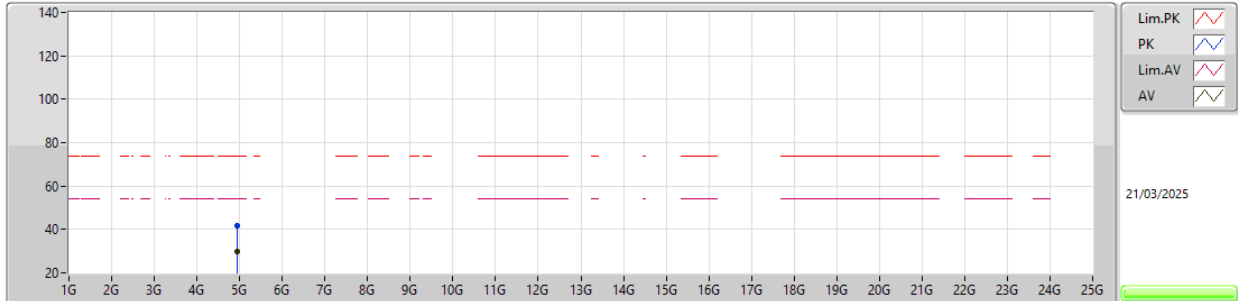
2462MHz_TX

EUT X_1TX
Setting 82
04-V-E-2

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	2.4628G	107.84	Inf	-Inf	76.84	3	Horizontal	318	1.80	-	27.47	3.53	-			
AV	2.4628G	97.09	Inf	-Inf	66.09	3	Horizontal	318	1.80	-	27.47	3.53	-			
PK	2.4994G	62.71	74.00	-11.29	31.55	3	Horizontal	318	1.80	-	27.61	3.55	-			
AV	2.4836G	48.91	54.00	-5.09	17.80	3	Horizontal	318	1.80	-	27.57	3.54	-			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

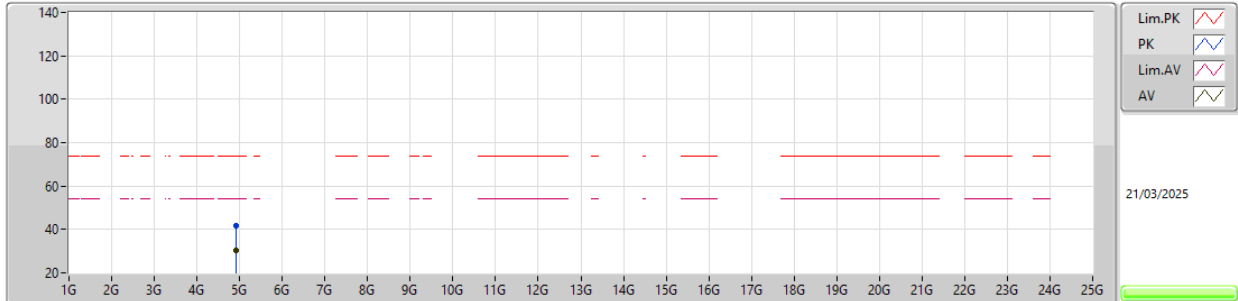
2462MHz_TX

EUT X_1TX
Setting 82
04-V-E-2

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	4.93762G	41.83	74.00	-32.17	48.91	3	Vertical	171	2.52	-	31.38	5.51	43.97			
AV	4.93486G	30.08	54.00	-23.92	37.17	3	Vertical	171	2.52	-	31.37	5.51	43.97			

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX

EUT X_1TX
Setting 82
04-V-E-2

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	4.92826G	41.63	74.00	-32.37	48.73	3	Horizontal	166	1.16	-	31.36	5.51	43.97			
AV	4.92922G	30.11	54.00	-23.89	37.21	3	Horizontal	166	1.16	-	31.36	5.51	43.97			



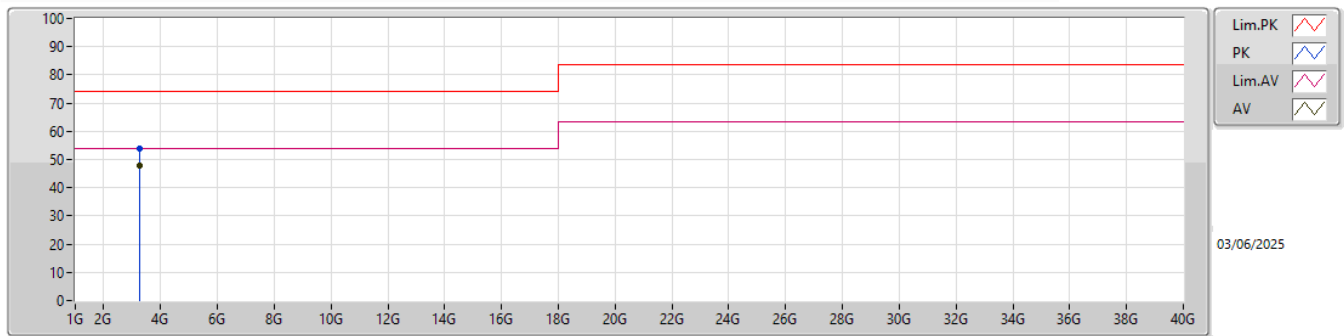
Radiated Emissions above 1GHz

Appendix G

Summary

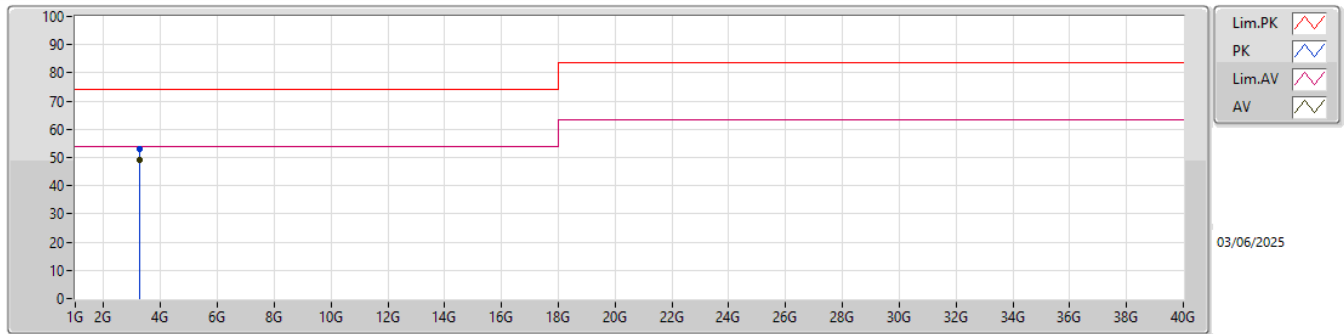
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	AV	3.26092G	49.01	54.00	-4.99	Horizontal

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	3.28024G	53.72	74.00	-20.28	0.11	3	Vertical	302	2.58	-	53.61	28.42	5.40	33.71		
AV	3.28034G	47.77	54.00	-6.23	0.11	3	Vertical	302	2.58	"Worst"	47.66	28.42	5.40	33.71		

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	3.26012G	53.05	74.00	-20.95	0.19	3	Horizontal	358	1.08	-	52.86	28.54	5.36	33.71		
AV	3.26092G	49.01	54.00	-4.99	0.18	3	Horizontal	358	1.08	"Worst"	48.83	28.53	5.36	33.71		