FCC Radio Test Report

FCC ID	:	**YL6-1438852R**
Equipment	:	**Wireless Module**
Brand Name	:	**ALARM.COM**
Model Name	:	**ADC-WM8852-A**
Applicant	:	**Alarm.com Incorporated 8281 Greensboro Drive, Suite 100, Tysons, VA 22102 United States**
Manufacturer	:	**Alarm.com Incorporated 8281 Greensboro Drive, Suite 100, Tysons, VA 22102 United States**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Feb. 06, 2025, and testing was started from Feb. 14, 2025 and completed on Feb. 25, 2025. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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

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PHOTOGRAPHS OF EUT V01

History of this test report

Report No.	Version	Description	Issued Date
FR1D0419-02AC	01	Initial issue of report	Apr. 25, 2025

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
-	15.207	AC Power-line Conducted Emissions	Not Required	Refer to 1.1.5
3.1	15.247(a)	DTS Bandwidth	PASS	-
3.2	15.247(b)	Maximum Conducted Output Power	PASS	-
3.3	15.247(e)	Power Spectral Density	PASS	-
3.4	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.5	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

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

Reviewed by: Ben Tseng

Report Producer: Amber Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20, ax(HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax(HEW40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX

Note:
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.
- Evaluated HEW20/HEW40 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.

1.1.2 Antenna Information

Source	Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	1	PSA	WCBN3511L_PCA	Dipole	I-Pex	2.4G+5G
	2	PSA	WCBN3511L_PCA	Dipole	I-Pex	2.4G+5G+BT
2	3	INPAQ	RFFPA301205IMLB401	Dipole	I-Pex	2.4G+5G
	4	INPAQ	RFFPA301213IMLB401	Dipole	I-Pex	2.4G+5G
3	5	LYNwave	ALX18F-222A A4-00	Dipole	I-Pex	2.4G+5G
	6	LYNwave	ALX18F-222A A5-00	Dipole	I-Pex	2.4G+5G
4	7	LYNwave	ALX18F-222AA2-01	Dipole	I-Pex	2.4G+5G
	8	LYNwave	ALX18F-222AA3-01	Dipole	I-Pex	2.4G+5G
5	9	AWAN	ASF6P-100012	PIFA	I-Pex	2.4G+5G
	10	AWAN	ASF6P-100011	PIFA	I-Pex	2.4G+5G+BT
6	11	INPAQ	RFDPA1615SBLB818	PIFA	I-Pex	2.4G+5G
	12	INPAQ	RFDPA1615SBLB818	PIFA	I-Pex	2.4G+5G+BT

Source	Ant.	Port	Gain (dBi)		
			2.4G	5G	BT
1	1	1	5.3	5.71	-
	2	2	5.3	5.71	5.3
2	3	1	3.94	5.3	-
	4	2	3.78	4.28	-
3	5	1	4.9	5.4	-
	6	2	5.2	4.7	-
4	7	1	5.1	5.6	-
	8	2	3.5	5.5	-
5	9	1	3.3	5.7	-
	10	2	2.9	3.8	2.9
6	11	1	5.59	6.04	-
	12	2	5.59	6.04	5.59

Note 1: The EUT has twelve antennas.

Note 2: The EUT can be matched with the above antennas and Source 6 antennas were used to perform the worst configuration and result of that was recorded as the final test result.

For 2.4GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

Ant. 3 (port 1) and Ant. 4 (port 2) could transmit/receive simultaneously.

Ant. 5 (port 1) and Ant. 6 (port 2) could transmit/receive simultaneously.

Ant. 7 (port 1) and Ant. 8 (port 2) could transmit/receive simultaneously.

Ant. 9 (port 1) and Ant. 10 (port 2) could transmit/receive simultaneously.

Ant. 11 (port 1) and Ant. 12 (port 2) could transmit/receive simultaneously.

For BT function:

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

Ant. 2 (port 2) can be used as transmitting/receiving.

Ant. 10 (port 2) can be used as transmitting/receiving.

Ant. 12 (port 2) can be used as transmitting/receiving.

For 5GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

Ant. 3 (port 1) and Ant. 4 (port 2) could transmit/receive simultaneously.

Ant. 5 (port 1) and Ant. 6 (port 2) could transmit/receive simultaneously.

Ant. 7 (port 1) and Ant. 8 (port 2) could transmit/receive simultaneously.

Ant. 9 (port 1) and Ant. 10 (port 2) could transmit/receive simultaneously.

Ant. 11 (port 1) and Ant. 12 (port 2) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From Test Fixture			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point
Beamforming Function	☐	With beamforming	☒	Without beamforming
Resource Unit	☒	Full RU	☐	Partial RU

Type of EUT		
☒	Stand-alone	
☐	Combined (EUT where the radio part is fully integrated within another device)	
	Combined Equipment - Brand Name / Model No.:	…
☐	Plug-in radio (EUT intended for a variety of host systems)	
	Host System - Brand Name / Model No.:	…
☐	Other:	

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11b_Nss1,(1Mbps)_2TX	0.75	1.25	8.194m	200
802.11g_Nss1,(6Mbps)_2TX	1	0	50.002m	10Hz (DC>=0.98)
802.11ax HEW20_Nss1,(MCS0)_2TX	1	0	50.002m	10Hz (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_2TX	1	0	50.002m	10Hz (DC>=0.98)

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

1.1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR1D0419AC

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. Add 4 antennas (Ant 9~12)	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands Emissions in Restricted Frequency Bands
2. Modified antennas brand and model name (Ant 7~8)	After evaluation, no RF test validations are required

1.2 Testing Applied Standards

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

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

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

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

1.3 Testing Location Information

Test Lab.：Sporton International Inc. Hsinhua Laboratory				
☐ Hsinhua **(TAF:** 3785**)**	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		**FAX:** 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
☒ Wenhua 3rd. **(TAF:** 3785**)**	**ADD:** No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
RF Conducted	TH06-HY	Johnny Yu	21.3~21.8°C / 52~55%	14/Feb/2025
Radiated	03CH26-HY	Ivan Chung	21.0~21.5°C / 56~59%	17/Feb/2025~25/Feb/2025
Radiated (Co-location)	03CH26-HY	Ivan Chung	20.4~21.3°C / 59~62%	24/Feb/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 Items	**Uncertainty**	**Remark**
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	AX Series MP ToolKit Version mp v1.1.27

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	18
2417MHz	18.5
2437MHz	20.5
2457MHz	17.5
2462MHz	16.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	16
2417MHz	16.5
2437MHz	19.5
2457MHz	17.5
2462MHz	16.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	14.5
2417MHz	15
2437MHz	18.5
2457MHz	16
2462MHz	13.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	10
2427MHz	10
2437MHz	13
2447MHz	12.5
2452MHz	12

2.2 The Worst Case Measurement Configuration

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

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Fixture mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
Worst Planes of EUT	V		

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated measurement
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz
2	Bluetooth+WLAN 5GHz
Refer to Sporton Test Report No.: FA1D0419-02 for Co-location RF Exposure Evaluation and Appendix F for Radiated Emission Co-location.	

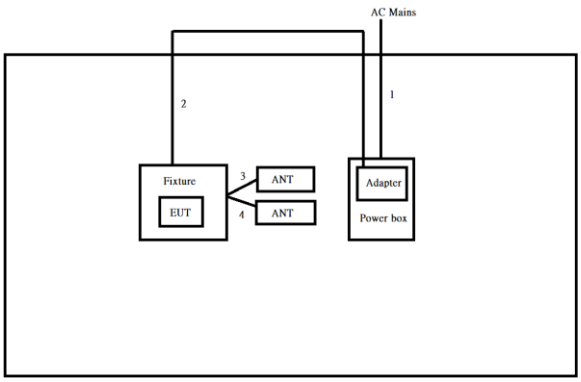
2.3 Support Equipment

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Adapter for EUT	APD	WB-12G12FU	-	-
2	NB	Lenovo	TP0001A	-	-
3	Adapter for NB	Lenovo	42T5000	-	-

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Adapter for EUT	APD	WB-12G12FU	-	-
2	Antenna*2	inpaq	RFDPA1615SBLB818	-	Provided by Customer
3	Fixture	-	-	-	Provided by Customer

2.4 Test Setup Diagram

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	2.5	-
3	ANT cable	No	0.1	-
4	ANT cable	No	0.1	-

3 Transmitter Test Result

3.1 DTS Bandwidth

3.1.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

3.1.2 Measuring Instruments

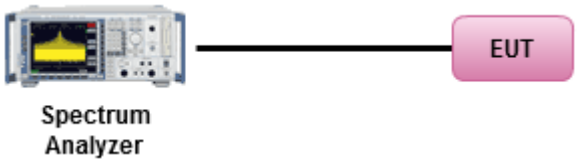
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
	☐ Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
	☐ Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.1.4 Test Setup

Emission Bandwidth



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit		
	▪ 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
e.i.r.p. Power Limit:		
▪ 2400-2483.5 MHz Band		
	▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)	
	▪ Point-to-point systems (P2P): $P_{eirp} \leq MAX(36, [P_{Out} + G_{TX}])$ dBm	
	▪ Smart antenna system (SAS)	
		- Single beam: $P_{eirp} \leq MAX(36, P_{Out} + G_{TX})$ dBm
		- Overlap beam: $P_{eirp} \leq MAX(36, P_{Out} + G_{TX})$ dBm
		- Aggregate power on all beams: $P_{eirp} \leq MAX(36, [P_{Out} + G_{TX} + 8])$ 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.		

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
	☐ Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
	☐ Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
▪ Maximum Average Conducted Output Power	
	☐ Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
	☒ Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.2.4 Test Setup

Maximum Conducted Output Power (Power Meter)

3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Power Spectral Density

3.3.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

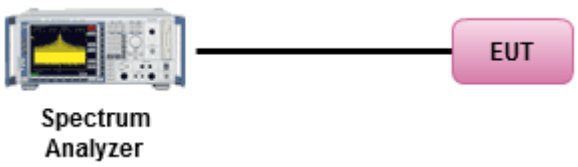
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method		
▪ 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 KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.	
▪ For conducted measurement.		
	▪ If The EUT supports multiple transmit chains using options given below:	
		▪ Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.3.4 Test Setup

Power Spectral Density


3.3.5 Test Result of Power Spectral Density

Refer as Appendix C

3.4 Emissions in Non-restricted Frequency Bands

3.4.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	**Limit (dB)**
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.	

3.4.2 Measuring Instruments

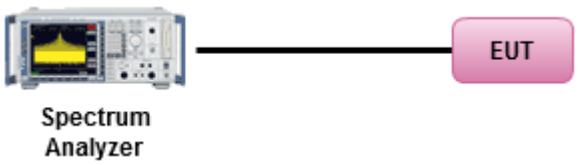
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method
▪ Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.4.4 Test Setup

Emissions in Non-restricted Frequency Bands



3.4.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix D

3.5 Emissions in Restricted Frequency Bands

3.5.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
▪ 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 KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
▪ Use the following spectrum analyzer settings:	
	▪ Set RBW=100 kHz for f < 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	▪ Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.
▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	▪ Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.5.4 Measurement Results Calculation

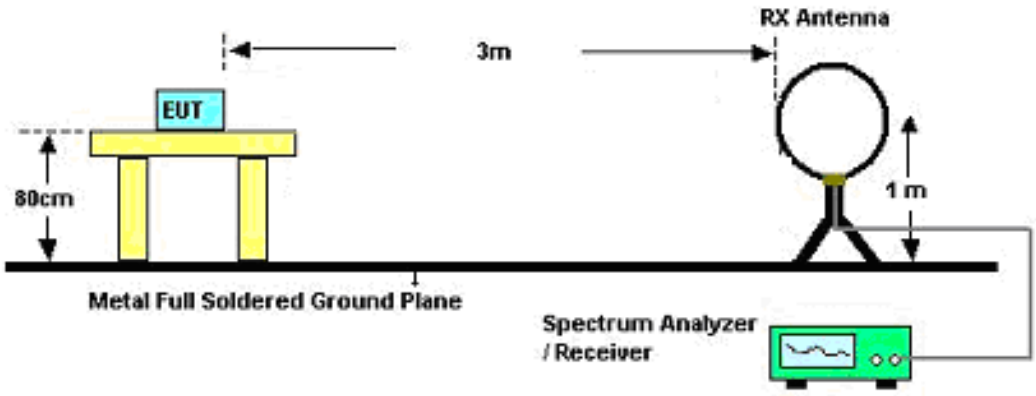
The measured Level is calculated using:

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

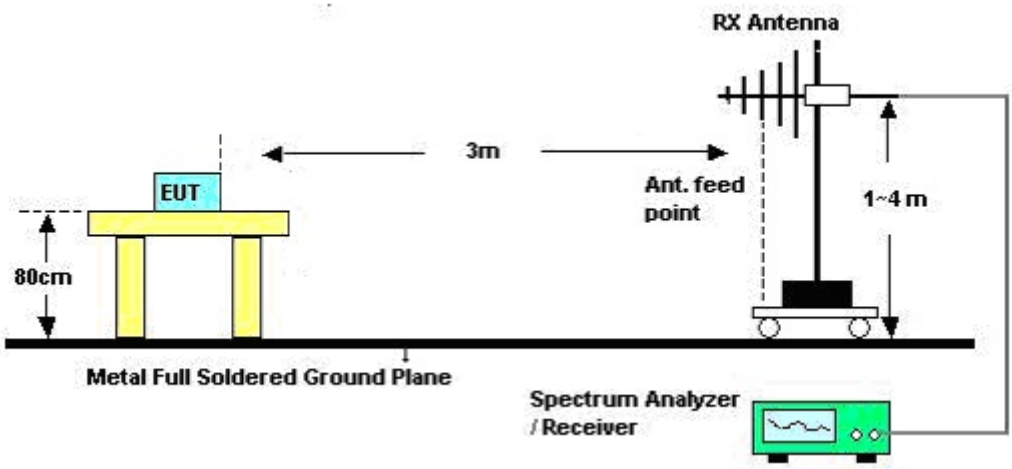
3.5.5 Test Setup

Emissions in Restricted Frequency Bands

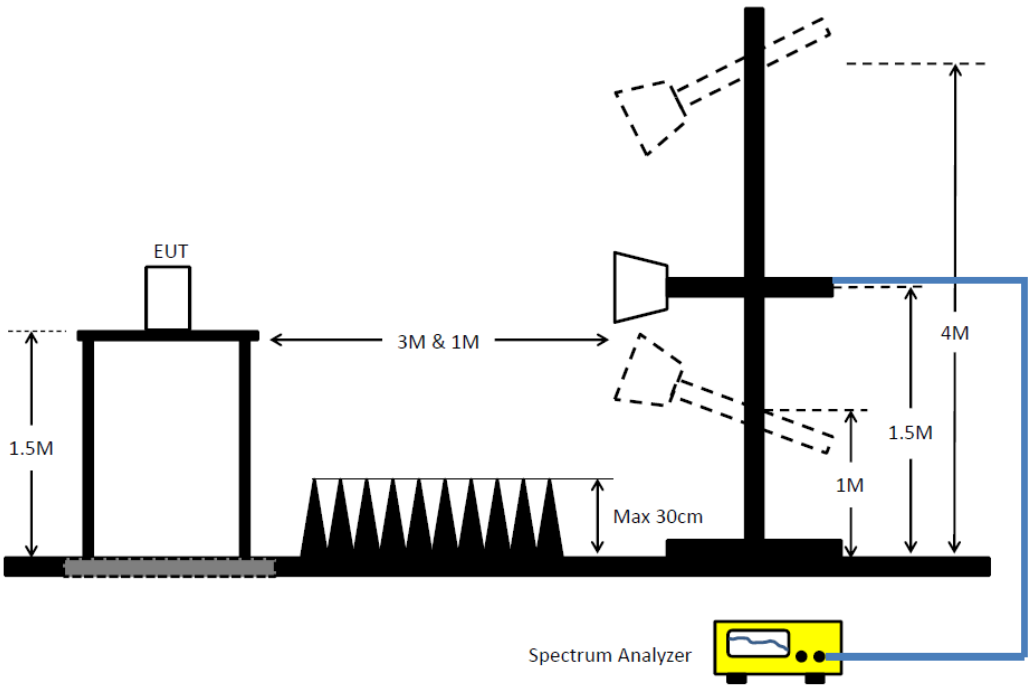
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



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

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

3.5.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	28/Oct/2024	27/Oct/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	01/Apr/2024	31/Mar/2025
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	02/Apr/2024	01/Apr/2025
SENSE-15247_DTS	Sporton	V5.11.23	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH26-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	30MHz~1GHz 3m	07/Aug/2024	06/Aug/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	07/Aug/2024	06/Aug/2025
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101411	10Hz~44GHz	09/Oct/2024	08/Oct/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63540/002	30MHz~1GHz	05/Jun/2024	04/Jun/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	11/Jul/2024	10/Jul/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	9kHz~1GHz	21/Oct/2024	20/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	21/Oct/2024	20/Oct/2025
Preamplifier	SGH	PRAMP 903	20230515-2	30MHz~1GHz	24/May/2024	23/May/2025
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	24/May/2024	23/May/2025
Amplifier	EM	EM18G40G	060874	18GHz ~ 40GHz	15/Apr/2024	14/Apr/2025
SENSE-15247-DTS	Sporton	V5.11.20	NA	NA	NA	NA

Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	07/Aug/2024	06/Aug/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101411	10Hz~44GHz	09/Oct/2024	08/Oct/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	11/Jul/2024	10/Jul/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	21/Oct/2024	20/Oct/2025
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	24/May/2024	23/May/2025
Amplifier	EM	EM18G40G	060874	18GHz ~ 40GHz	15/Apr/2024	14/Apr/2025
SENSE-EMI	Sporton	V5.11.8	NA	NA	NA	NA

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)_2TX	11.075M	14.948M	14M9G1D	9.95M	14.558M
802.11g_Nss1,(6Mbps)_2TX	16.375M	16.382M	16M4D1D	15.075M	16.162M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.05M	18.916M	18M9D1D	15.025M	18.541M
802.11ax HEW40_Nss1,(MCS0)_2TX	38.15M	37.831M	37M8D1D	37.95M	37.731M

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

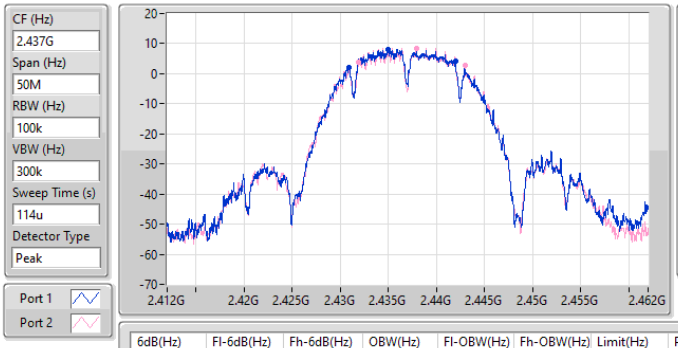
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	10.075M	14.558M	11.05M	14.768M
2437MHz	Pass	500k	11.025M	14.738M	11.075M	14.948M
2462MHz	Pass	500k	11.05M	14.723M	9.95M	14.723M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.375M	16.338M	16.35M	16.382M
2437MHz	Pass	500k	15.075M	16.162M	15.175M	16.228M
2462MHz	Pass	500k	16.375M	16.338M	16.35M	16.338M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.825M	18.891M	18.9M	18.891M
2437MHz	Pass	500k	19.05M	18.916M	19.025M	18.891M
2462MHz	Pass	500k	18.05M	18.541M	15.025M	18.691M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	38.05M	37.731M	38.15M	37.731M
2437MHz	Pass	500k	38.15M	37.731M	37.95M	37.781M
2452MHz	Pass	500k	38.1M	37.831M	38.05M	37.781M

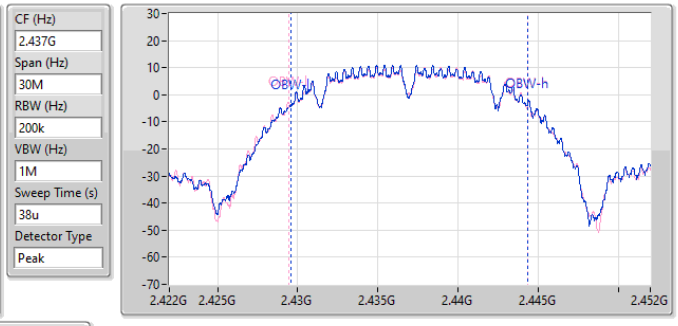
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **EBW**

2437MHz

14/02/2025



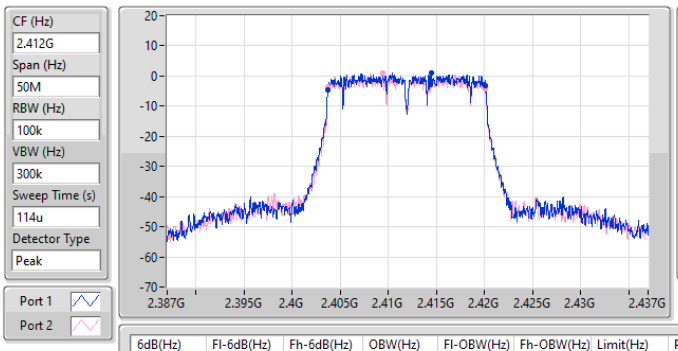


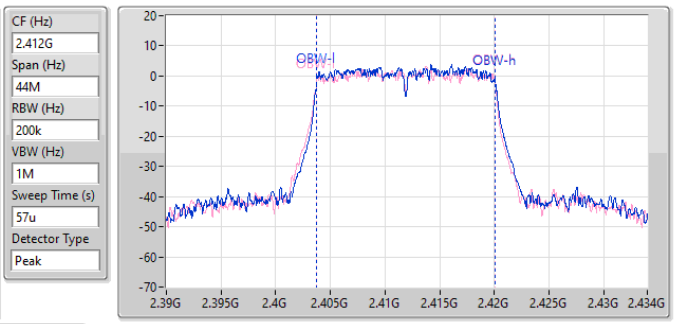
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
11.025M	2.430925G	2.44195G	14.738M	2.429594G	2.444331G	500k	1
11.075M	2.431875G	2.44295G	14.948M	2.429429G	2.444376G	500k	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **EBW**

2412MHz

14/02/2025



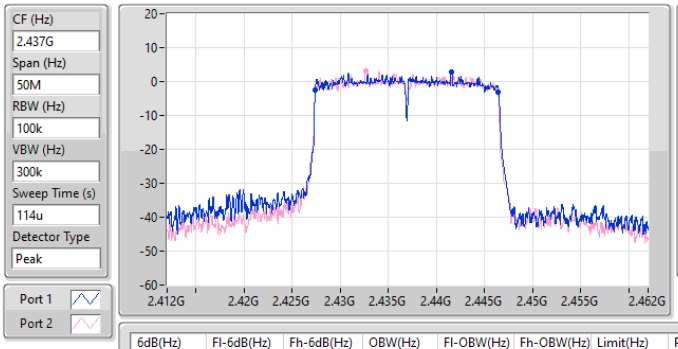


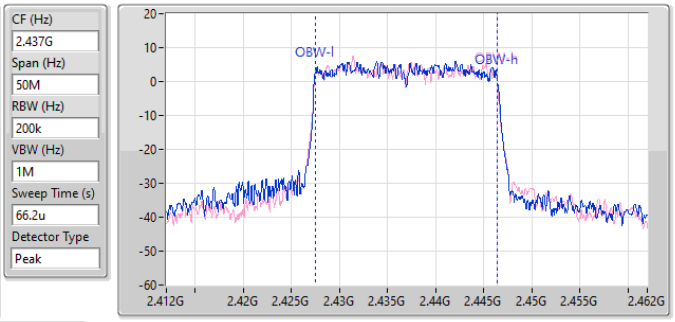
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.375M	2.403725G	2.4201G	16.338M	2.403754G	2.420092G	500k	1
16.35M	2.40375G	2.4201G	16.382M	2.40371G	2.420092G	500k	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

2437MHz

14/02/2025



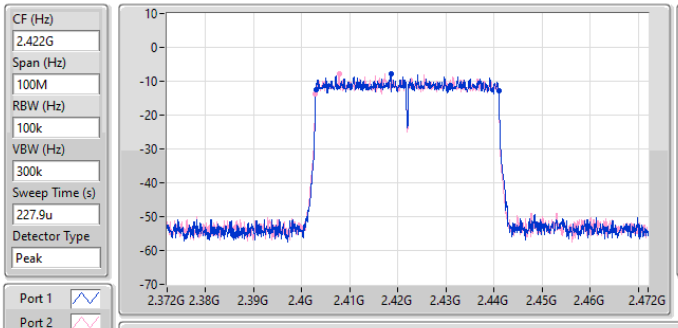


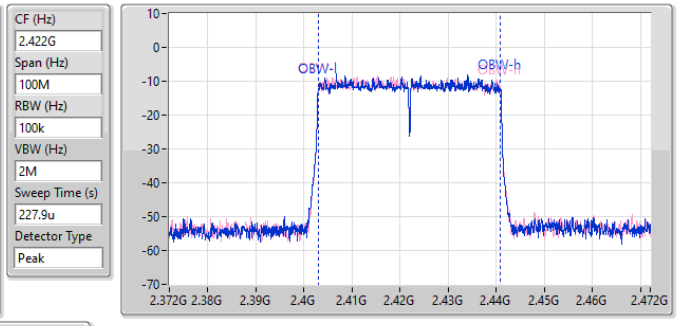
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.05M	2.4274G	2.44645G	18.916M	2.427455G	2.44637G	500k	1
19.025M	2.4274G	2.446425G	18.891M	2.427455G	2.446345G	500k	2

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

2422MHz

14/02/2025





6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.05M	2.4029G	2.44095G	37.731M	2.403059G	2.440791G	500k	1
38.15M	2.4028G	2.44095G	37.731M	2.403009G	2.440741G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	22.71	0.18664
802.11g_Nss1,(6Mbps)_2TX	21.09	0.12853
802.11ax HEW20_Nss1,(MCS0)_2TX	20.33	0.10789
802.11ax HEW40_Nss1,(MCS0)_2TX	15.37	0.03443

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.59	17.75	17.23	20.51	30.00
2417MHz	Pass	5.59	18.10	17.64	20.89	30.00
2437MHz	Pass	5.59	19.91	19.47	22.71	30.00
2457MHz	Pass	5.59	16.93	16.73	19.84	30.00
2462MHz	Pass	5.59	16.03	15.99	19.02	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.59	15.37	14.83	18.12	30.00
2417MHz	Pass	5.59	15.79	15.01	18.43	30.00
2437MHz	Pass	5.59	18.47	17.65	21.09	30.00
2457MHz	Pass	5.59	16.33	15.87	19.12	30.00
2462MHz	Pass	5.59	15.38	14.89	18.15	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.59	13.95	13.40	16.69	30.00
2417MHz	Pass	5.59	14.42	13.96	17.21	30.00
2437MHz	Pass	5.59	17.60	17.02	20.33	30.00
2457MHz	Pass	5.59	15.13	14.78	17.97	30.00
2462MHz	Pass	5.59	12.59	11.93	15.28	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.59	9.72	9.82	12.78	30.00
2427MHz	Pass	5.59	9.63	10.17	12.92	30.00
2437MHz	Pass	5.59	12.20	12.52	15.37	30.00
2447MHz	Pass	5.59	11.51	11.84	14.69	30.00
2452MHz	Pass	5.59	11.00	11.54	14.29	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)_2TX	-2.74
802.11g_Nss1,(6Mbps)_2TX	4.88
802.11ax HEW20_Nss1,(MCS0)_2TX	-2.62
802.11ax HEW40_Nss1,(MCS0)_2TX	-10.68

RBW = 3kHz;

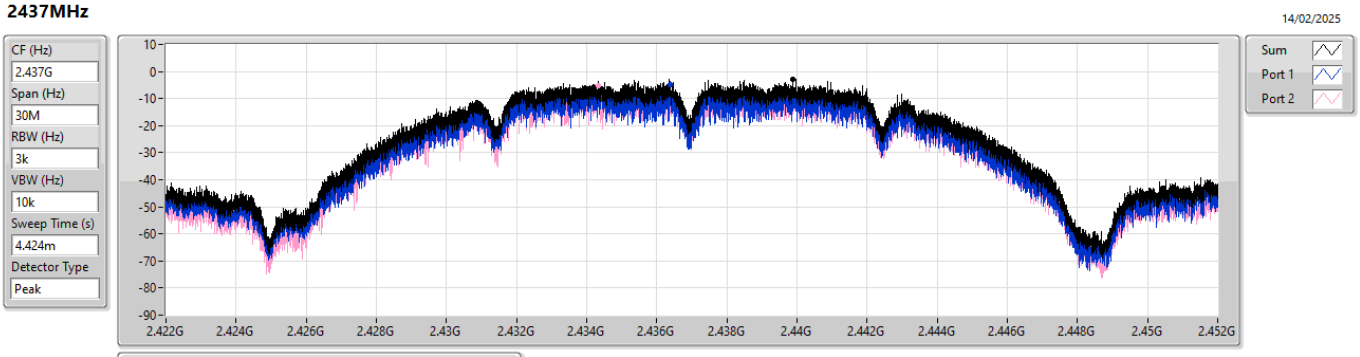
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.60	-6.36	-7.54	-4.49	5.40
2437MHz	Pass	8.60	-4.66	-5.09	-2.74	5.40
2462MHz	Pass	8.60	-8.97	-7.87	-6.77	5.40
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.60	-2.06	-2.75	0.62	5.40
2437MHz	Pass	8.60	2.32	1.43	4.88	5.40
2462MHz	Pass	8.60	-1.96	-2.79	0.63	5.40
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.60	-9.23	-9.79	-6.49	5.40
2437MHz	Pass	8.60	-5.30	-5.91	-2.62	5.40
2462MHz	Pass	8.60	-9.98	-10.39	-7.17	5.40
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	8.60	-16.65	-16.79	-13.79	5.40
2437MHz	Pass	8.60	-13.88	-13.50	-10.68	5.40
2452MHz	Pass	8.60	-15.32	-14.75	-12.02	5.40

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)_2TX **PSD**

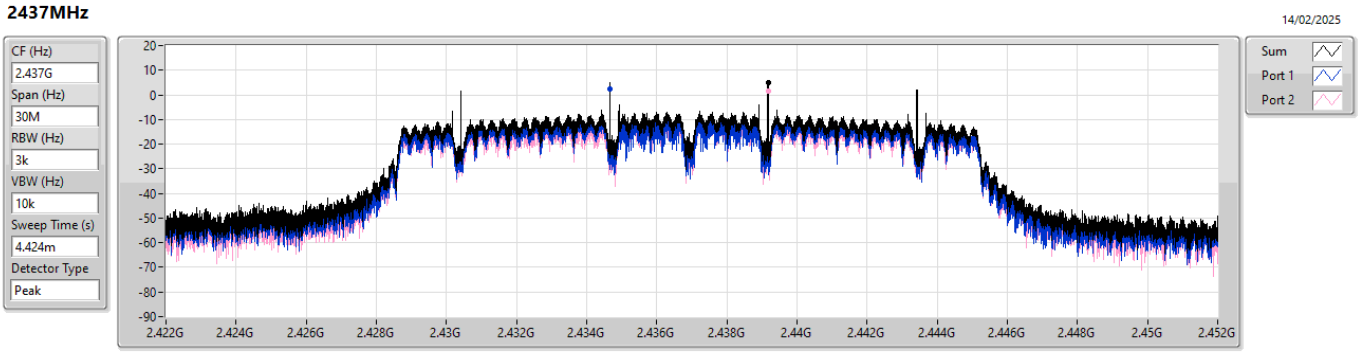
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.74	-2.74	-4.66	-5.09

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **PSD**

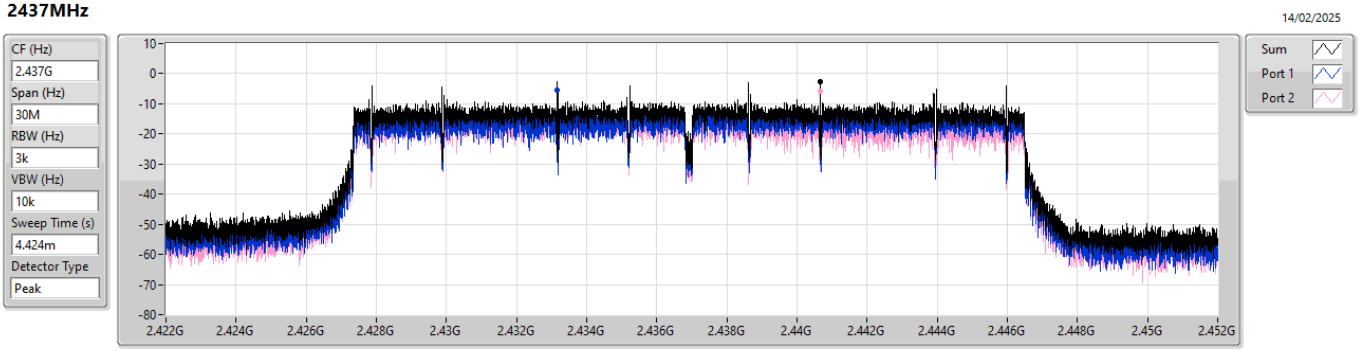
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.88	4.88	2.32	1.43

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

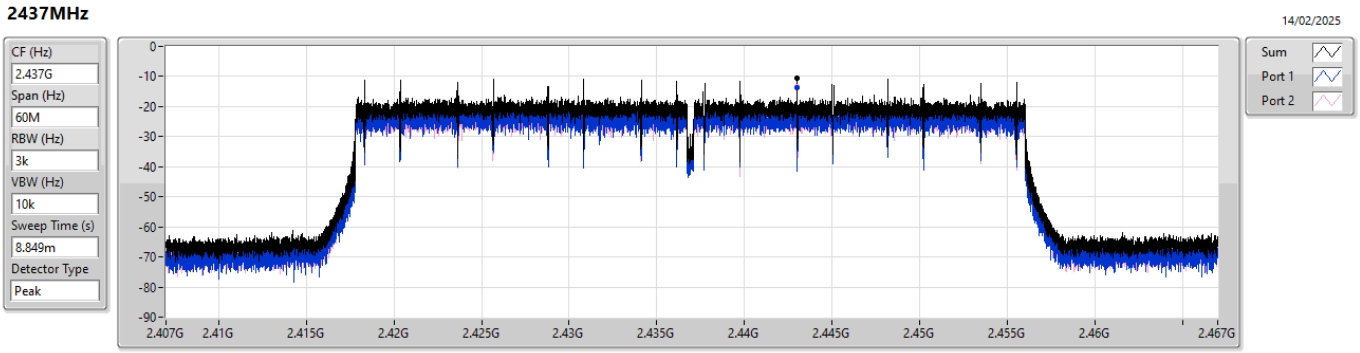
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.62	-2.62	-5.30	-5.91

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.68	-10.68	-13.88	-13.50

Summary

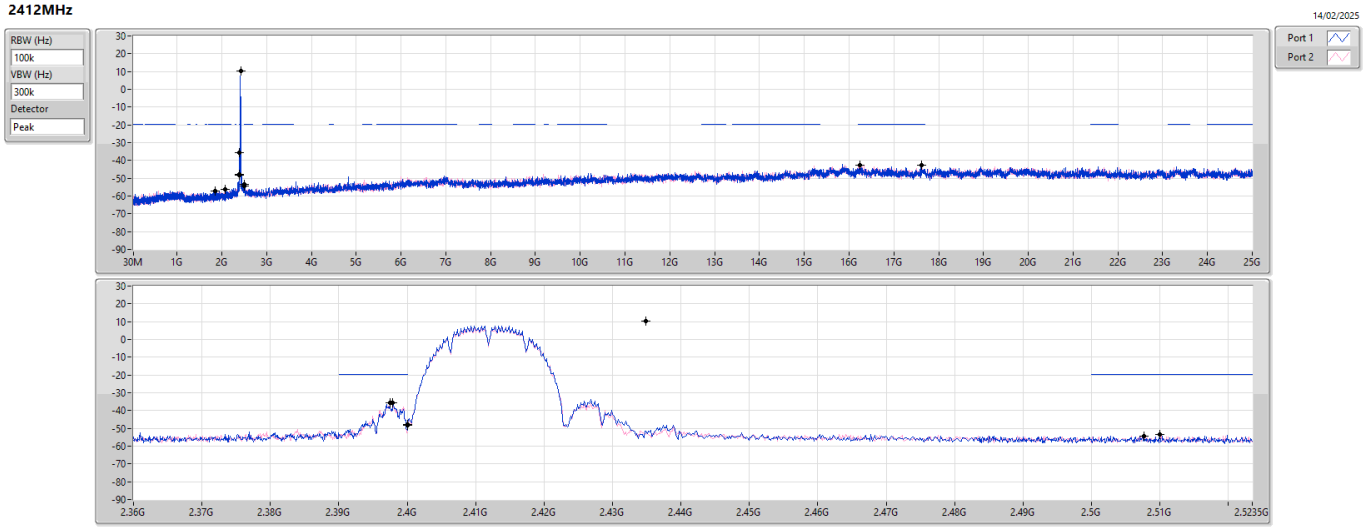
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.4349G	10.09	-19.91	1.85905G	-57.06	2.39792G	-35.74	2.4G	-47.61	2.50998G	-53.31	16.23697G	-42.74	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43758G	5.66	-24.34	724.34M	-56.42	2.3996G	-35.66	2.4G	-36.95	2.5075G	-54.01	16.29878G	-43.27	2
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.43407G	4.00	-26.00	1.89517G	-57.13	2.3996G	-39.67	2.4G	-41.39	2.5063G	-53.58	21.54705G	-43.26	2
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.44542G	-2.94	-32.94	30M	-55.38	2.39712G	-49.82	2.4G	-52.58	2.5131G	-53.79	16.28342G	-43.08	2

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)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4349G	10.09	-19.91	1.85905G	-57.06	2.39792G	-35.74	2.4G	-47.61	2.50998G	-53.31	16.23697G	-42.74	1
2412MHz	Pass	2.4349G	10.09	-19.91	2.06759G	-56.02	2.39744G	-35.80	2.4G	-48.39	2.50766G	-54.35	17.61085G	-42.49	2
2437MHz	Pass	2.4349G	10.09	-19.91	2.1305G	-56.64	2.39848G	-51.00	2.4G	-54.37	2.50598G	-53.41	17.61928G	-42.90	1
2437MHz	Pass	2.4349G	10.09	-19.91	2.05244G	-56.52	2.39992G	-50.19	2.4G	-51.93	2.50646G	-54.05	17.15851G	-43.12	2
2462MHz	Pass	2.4349G	10.09	-19.91	2.30991G	-56.22	2.39544G	-54.00	2.4G	-56.14	2.51174G	-53.96	17.5968G	-43.59	1
2462MHz	Pass	2.4349G	10.09	-19.91	2.12001G	-56.94	2.3964G	-54.23	2.4G	-55.13	2.52134G	-53.30	16.29036G	-42.19	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43758G	5.66	-24.34	2.30874G	-55.80	2.39544G	-38.60	2.4G	-40.94	2.50966G	-53.94	16.23978G	-43.40	1
2412MHz	Pass	2.43758G	5.66	-24.34	724.34M	-56.42	2.3996G	-35.66	2.4G	-36.95	2.5075G	-54.01	16.29878G	-43.27	2
2437MHz	Pass	2.43758G	5.66	-24.34	2.04079G	-56.79	2.39952G	-46.99	2.4G	-50.95	2.50254G	-52.04	23.30864G	-43.62	1
2437MHz	Pass	2.43758G	5.66	-24.34	2.07924G	-56.43	2.3948G	-51.47	2.4G	-52.78	2.50134G	-53.42	23.27212G	-42.79	2
2462MHz	Pass	2.43758G	5.66	-24.34	2.06526G	-56.38	2.39584G	-53.83	2.4G	-56.84	2.50526G	-53.56	24.64319G	-43.06	1
2462MHz	Pass	2.43758G	5.66	-24.34	2.18176G	-57.04	2.39712G	-54.59	2.4G	-56.75	2.50478G	-51.97	16.25102G	-43.09	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43407G	4.00	-26.00	1.93711G	-55.98	2.39512G	-42.15	2.4G	-44.00	2.5147G	-53.89	16.83541G	-43.41	1
2412MHz	Pass	2.43407G	4.00	-26.00	1.89517G	-57.13	2.3996G	-39.67	2.4G	-41.39	2.5063G	-53.58	21.54705G	-43.26	2
2437MHz	Pass	2.43407G	4.00	-26.00	1.92429G	-56.02	2.39976G	-44.72	2.4G	-45.77	2.50142G	-52.66	16.5966G	-43.33	1
2437MHz	Pass	2.43407G	4.00	-26.00	2.16312G	-56.85	2.39976G	-47.43	2.4G	-48.77	2.51694G	-54.19	16.23978G	-43.42	2
2462MHz	Pass	2.43407G	4.00	-26.00	2.30525G	-56.40	2.4G	-54.24	2.4G	-56.94	2.51478G	-53.66	17.60242G	-42.14	1
2462MHz	Pass	2.43407G	4.00	-26.00	2.30525G	-56.80	2.39376G	-54.79	2.4G	-56.69	2.51078G	-54.24	23.58679G	-42.55	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44542G	-2.94	-32.94	2.30855G	-56.97	2.39024G	-53.21	2.4G	-54.61	2.50558G	-55.01	17.27623G	-42.77	1
2422MHz	Pass	2.44542G	-2.94	-32.94	2.30512G	-56.63	2.39888G	-52.64	2.4G	-54.93	2.51646G	-54.38	16.26098G	-42.59	2
2437MHz	Pass	2.44542G	-2.94	-32.94	2.14711G	-56.85	2.39664G	-51.96	2.4G	-53.46	2.50414G	-52.96	16.59192G	-43.43	1
2437MHz	Pass	2.44542G	-2.94	-32.94	30M	-55.38	2.39712G	-49.82	2.4G	-52.58	2.5131G	-53.79	16.28342G	-43.08	2
2452MHz	Pass	2.44542G	-2.94	-32.94	2.30397G	-56.21	2.39776G	-54.15	2.4G	-54.85	2.50574G	-53.06	16.24416G	-41.87	1
2452MHz	Pass	2.44542G	-2.94	-32.94	2.15283G	-56.83	2.39936G	-53.67	2.4G	-54.97	2.5019G	-52.97	16.2722G	-42.91	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **CSENdB**

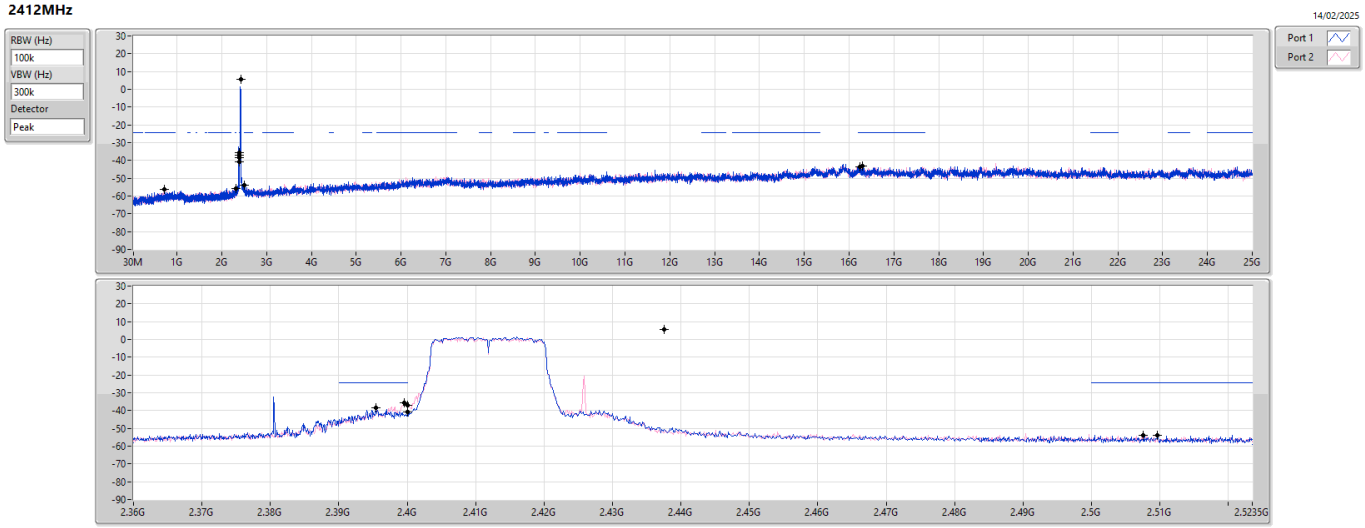
2412MHz



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
2.4349G	10.09	-19.91	1.85905G	-57.06	2.39792G	-35.74	2.4G	-47.61	2.50998G	-53.31	16.23697G	-42.74	1
2.4349G	10.09	-19.91	2.06759G	-56.02	2.39744G	-35.80	2.4G	-48.39	2.50766G	-54.35	17.61085G	-42.49	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **CSENdB**

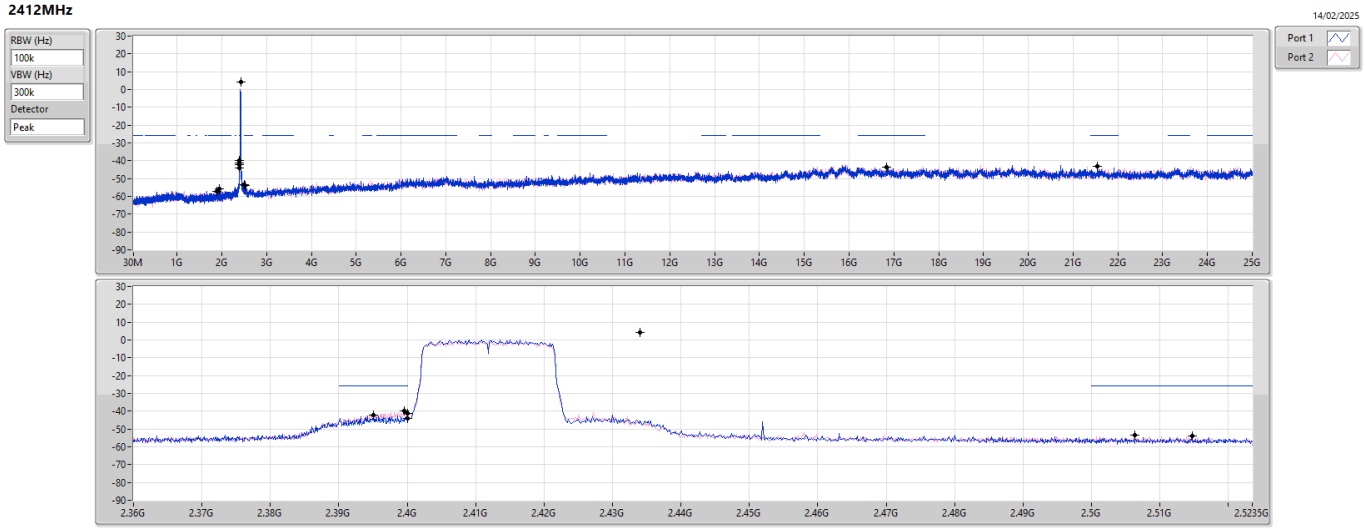
2412MHz



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
2.43758G	5.66	-24.34	2.30874G	-55.80	2.39544G	-38.60	2.4G	-40.94	2.50966G	-53.94	16.23978G	-43.40	1
2.43758G	5.66	-24.34	724.34M	-56.42	2.3996G	-35.66	2.4G	-36.95	2.5075G	-54.01	16.29878G	-43.27	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **CSENdB**

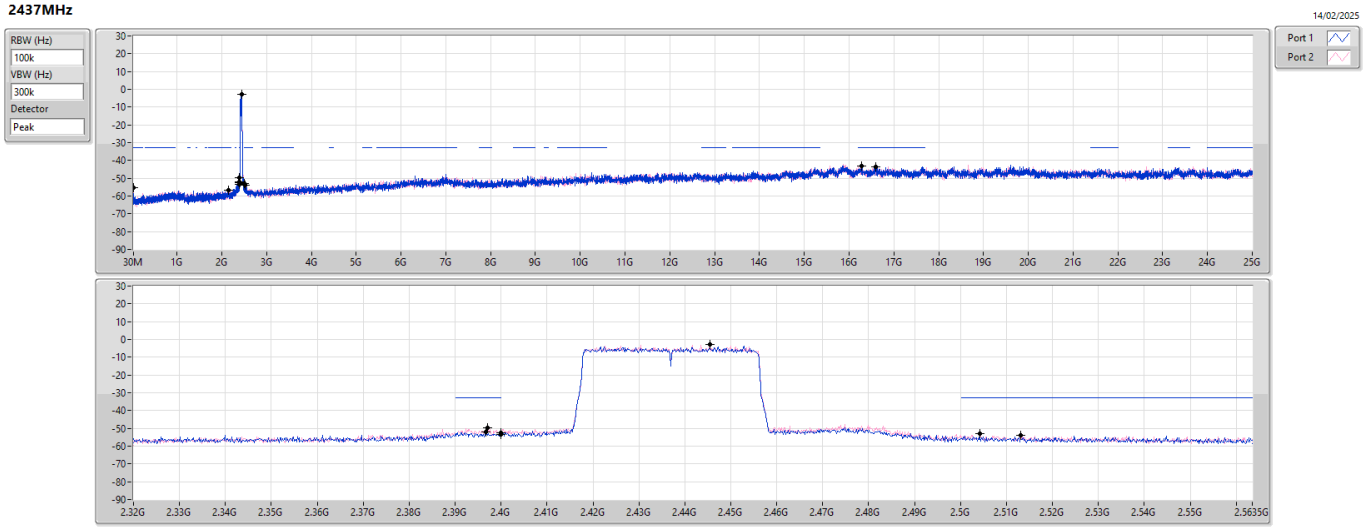
2412MHz



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
2.43407G	4.00	-26.00	1.93711G	-55.98	2.39512G	-42.15	2.4G	-44.00	2.5147G	-53.89	16.83541G	-43.41	1
2.43407G	4.00	-26.00	1.89517G	-57.13	2.3996G	-39.67	2.4G	-41.39	2.5063G	-53.58	21.54705G	-43.26	2

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **CSENdB**

2437MHz



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
2.44542G	-2.94	-32.94	2.14711G	-56.85	2.39664G	-51.96	2.4G	-53.46	2.50414G	-52.96	16.59192G	-43.43	1
2.44542G	-2.94	-32.94	30M	-55.38	2.39712G	-49.82	2.4G	-52.58	2.5131G	-53.79	16.28342G	-43.08	2

Summary

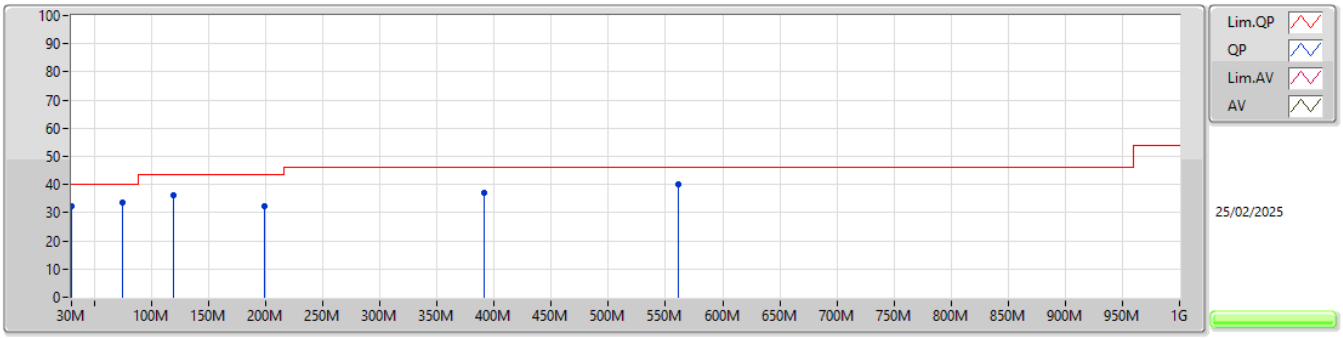
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	PK	119.24M	38.23	43.50	-5.27	3	Horizontal	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	30M	32.17	40.00	-7.83	3	Vertical	360	1.00
2437MHz	Pass	PK	74.62M	33.47	40.00	-6.53	3	Vertical	360	1.00
2437MHz	Pass	PK	119.24M	36.01	43.50	-7.49	3	Vertical	360	1.00
2437MHz	Pass	PK	198.78M	32.52	43.50	-10.98	3	Vertical	360	1.00
2437MHz	Pass	PK	390.84M	37.06	46.00	-8.94	3	Vertical	360	1.00
2437MHz	Pass	PK	561.56M	40.15	46.00	-5.85	3	Vertical	360	1.00
2437MHz	Pass	PK	119.24M	38.23	43.50	-5.27	3	Horizontal	0	1.00
2437MHz	Pass	PK	138.64M	34.57	43.50	-8.93	3	Horizontal	0	1.00
2437MHz	Pass	PK	216M	36.61	46.00	-9.39	3	Horizontal	0	1.00
2437MHz	Pass	PK	400.54M	38.86	46.00	-7.14	3	Horizontal	0	1.00
2437MHz	Pass	PK	470.38M	38.87	46.00	-7.13	3	Horizontal	0	1.00
2437MHz	Pass	PK	567.38M	37.79	46.00	-8.21	3	Horizontal	0	1.00

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

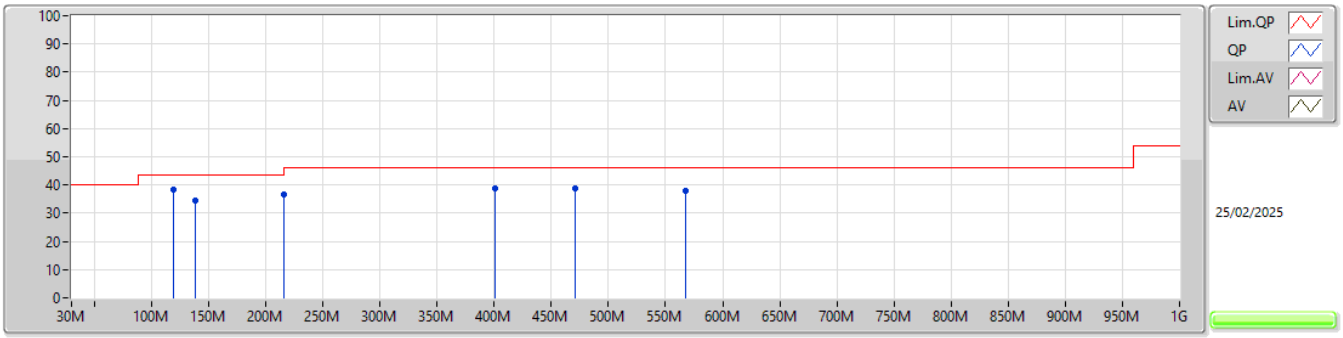
2437MHz_Fixture



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	30M	32.17	40.00	-7.83	-18.87	3	Vertical	360	1.00	51.04	24.67	0.78	44.32
PK	74.62M	33.47	40.00	-6.53	-30.77	3	Vertical	360	1.00	64.24	12.91	1.03	44.71
PK	119.24M	36.01	43.50	-7.49	-25.80	3	Vertical	360	1.00	61.81	17.54	1.28	44.62
PK	198.78M	32.52	43.50	-10.98	-27.87	3	Vertical	360	1.00	60.39	15.05	1.62	44.54
PK	390.84M	37.06	46.00	-8.94	-20.27	3	Vertical	360	1.00	57.33	21.60	2.25	44.12
PK	561.56M	40.15	46.00	-5.85	-14.55	3	Vertical	360	1.00	54.70	26.68	2.72	43.95

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_Fixture



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	119.24M	38.23	43.50	-5.27	-25.80	3	Horizontal	0	1.00	64.03	17.54	1.28	44.62
PK	138.64M	34.57	43.50	-8.93	-25.80	3	Horizontal	0	1.00	60.37	17.50	1.35	44.65
PK	216M	36.61	46.00	-9.39	-27.41	3	Horizontal	0	1.00	64.02	15.42	1.68	44.51
PK	400.54M	38.86	46.00	-7.14	-19.84	3	Horizontal	0	1.00	58.70	22.00	2.26	44.10
PK	470.38M	38.87	46.00	-7.13	-17.87	3	Horizontal	0	1.00	56.74	23.63	2.50	44.00
PK	567.38M	37.79	46.00	-8.21	-14.62	3	Horizontal	0	1.00	52.41	26.60	2.73	43.95

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	4.87388G	50.46	54.00	-3.54	3	Horizontal	47	2.04
802.11g_Nss1,(6Mbps)_2TX	Pass	PK	2.389G	71.61	74.00	-2.39	3	Vertical	286	2.81
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	2.4868G	51.03	54.00	-2.97	3	Horizontal	329	2.96
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	2.4872G	48.69	54.00	-5.31	3	Horizontal	332	2.90

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3874G	49.35	54.00	-4.65	3	Vertical	275	2.83
2412MHz	Pass	AV	2.4102G	108.46	Inf	-Inf	3	Vertical	275	2.83
2412MHz	Pass	PK	2.386G	59.56	74.00	-14.44	3	Vertical	275	2.83
2412MHz	Pass	PK	2.4092G	111.13	Inf	-Inf	3	Vertical	275	2.83
2412MHz	Pass	AV	2.387G	47.37	54.00	-6.63	3	Horizontal	271	2.79
2412MHz	Pass	AV	2.4102G	104.59	Inf	-Inf	3	Horizontal	271	2.79
2412MHz	Pass	PK	2.3866G	58.76	74.00	-15.24	3	Horizontal	271	2.79
2412MHz	Pass	PK	2.4092G	107.32	Inf	-Inf	3	Horizontal	271	2.79
2412MHz	Pass	AV	4.82388G	42.35	54.00	-11.65	3	Vertical	19	1.00
2412MHz	Pass	PK	4.82386G	48.01	74.00	-25.99	3	Vertical	19	1.00
2412MHz	Pass	AV	4.82386G	45.44	54.00	-8.56	3	Horizontal	146	2.64
2412MHz	Pass	PK	4.82378G	49.82	74.00	-24.18	3	Horizontal	146	2.64
2417MHz	Pass	AV	2.389G	50.08	54.00	-3.92	3	Vertical	291	2.81
2417MHz	Pass	AV	2.4152G	108.96	Inf	-Inf	3	Vertical	291	2.81
2417MHz	Pass	PK	2.3892G	59.85	74.00	-14.15	3	Vertical	291	2.81
2417MHz	Pass	PK	2.4142G	111.62	Inf	-Inf	3	Vertical	291	2.81
2417MHz	Pass	AV	2.389G	47.84	54.00	-6.16	3	Horizontal	237	1.10
2417MHz	Pass	AV	2.4152G	105.03	Inf	-Inf	3	Horizontal	237	1.10
2417MHz	Pass	PK	2.384G	58.56	74.00	-15.44	3	Horizontal	237	1.10
2417MHz	Pass	PK	2.4142G	107.65	Inf	-Inf	3	Horizontal	237	1.10
2437MHz	Pass	AV	2.3894G	47.06	54.00	-6.94	3	Vertical	293	3.00
2437MHz	Pass	AV	2.435G	108.11	Inf	-Inf	3	Vertical	293	3.00
2437MHz	Pass	AV	2.4838G	47.31	54.00	-6.69	3	Vertical	293	3.00
2437MHz	Pass	PK	2.3818G	58.91	74.00	-15.09	3	Vertical	293	3.00
2437MHz	Pass	PK	2.4342G	110.73	Inf	-Inf	3	Vertical	293	3.00
2437MHz	Pass	PK	2.4878G	59.03	74.00	-14.97	3	Vertical	293	3.00
2437MHz	Pass	AV	2.3882G	46.14	54.00	-7.86	3	Horizontal	195	1.51
2437MHz	Pass	AV	2.435G	105.75	Inf	-Inf	3	Horizontal	195	1.51
2437MHz	Pass	AV	2.4846G	46.84	54.00	-7.16	3	Horizontal	195	1.51
2437MHz	Pass	PK	2.357G	58.43	74.00	-15.57	3	Horizontal	195	1.51
2437MHz	Pass	PK	2.4342G	108.42	Inf	-Inf	3	Horizontal	195	1.51
2437MHz	Pass	PK	2.4835G	58.98	74.00	-15.02	3	Horizontal	195	1.51
2437MHz	Pass	AV	4.87382G	46.43	54.00	-7.57	3	Vertical	179	1.66
2437MHz	Pass	AV	7.31385G	39.11	54.00	-14.89	3	Vertical	5	1.50
2437MHz	Pass	PK	4.87391G	50.91	74.00	-23.09	3	Vertical	179	1.66
2437MHz	Pass	PK	7.30674G	51.30	74.00	-22.70	3	Vertical	5	1.50
2437MHz	Pass	AV	4.87388G	50.46	54.00	-3.54	3	Horizontal	47	2.04
2437MHz	Pass	AV	7.31325G	38.55	54.00	-15.45	3	Horizontal	334	1.50
2437MHz	Pass	PK	4.87373G	53.23	74.00	-20.77	3	Horizontal	47	2.04
2437MHz	Pass	PK	7.29711G	51.15	74.00	-22.85	3	Horizontal	334	1.50
2457MHz	Pass	AV	2.4552G	105.75	Inf	-Inf	3	Vertical	292	3.00
2457MHz	Pass	AV	2.4835G	47.52	54.00	-6.48	3	Vertical	292	3.00
2457MHz	Pass	PK	2.4542G	108.61	Inf	-Inf	3	Vertical	292	3.00
2457MHz	Pass	PK	2.4852G	59.72	74.00	-14.28	3	Vertical	292	3.00
2457MHz	Pass	AV	2.4552G	102.82	Inf	-Inf	3	Horizontal	196	1.45
2457MHz	Pass	AV	2.4836G	47.34	54.00	-6.66	3	Horizontal	196	1.45
2457MHz	Pass	PK	2.4542G	105.64	Inf	-Inf	3	Horizontal	196	1.45
2457MHz	Pass	PK	2.487G	59.16	74.00	-14.84	3	Horizontal	196	1.45
2462MHz	Pass	AV	2.4636G	104.43	Inf	-Inf	3	Vertical	289	3.00
2462MHz	Pass	AV	2.4835G	48.05	54.00	-5.95	3	Vertical	289	3.00
2462MHz	Pass	PK	2.4592G	107.21	Inf	-Inf	3	Vertical	289	3.00
2462MHz	Pass	PK	2.4882G	59.65	74.00	-14.35	3	Vertical	289	3.00
2462MHz	Pass	AV	2.4602G	101.65	Inf	-Inf	3	Horizontal	197	1.51
2462MHz	Pass	AV	2.4886G	47.15	54.00	-6.85	3	Horizontal	197	1.51
2462MHz	Pass	PK	2.4592G	104.63	Inf	-Inf	3	Horizontal	197	1.51
2462MHz	Pass	PK	2.4872G	59.37	74.00	-14.63	3	Horizontal	197	1.51
2462MHz	Pass	AV	4.92391G	40.57	54.00	-13.43	3	Vertical	181	1.50
2462MHz	Pass	AV	7.38744G	37.93	54.00	-16.07	3	Vertical	2	1.50
2462MHz	Pass	PK	4.92358G	47.33	74.00	-26.67	3	Vertical	181	1.50
2462MHz	Pass	PK	7.37526G	50.90	74.00	-23.10	3	Vertical	2	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2462MHz	Pass	AV	4.92385G	45.19	54.00	-8.81	3	Horizontal	141	1.62
2462MHz	Pass	AV	7.37112G	37.96	54.00	-16.04	3	Horizontal	55	1.50
2462MHz	Pass	PK	4.92379G	49.95	74.00	-24.05	3	Horizontal	141	1.62
2462MHz	Pass	PK	7.37196G	50.66	74.00	-23.34	3	Horizontal	55	1.50
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3892G	50.91	54.00	-3.09	3	Vertical	286	2.81
2412MHz	Pass	AV	2.4084G	101.81	Inf	-Inf	3	Vertical	286	2.81
2412MHz	Pass	PK	2.389G	71.61	74.00	-2.39	3	Vertical	286	2.81
2412MHz	Pass	PK	2.4086G	110.23	Inf	-Inf	3	Vertical	286	2.81
2412MHz	Pass	AV	2.3898G	49.70	54.00	-4.30	3	Horizontal	196	1.43
2412MHz	Pass	AV	2.4094G	97.97	Inf	-Inf	3	Horizontal	196	1.43
2412MHz	Pass	PK	2.389G	67.69	74.00	-6.31	3	Horizontal	196	1.43
2412MHz	Pass	PK	2.4094G	106.57	Inf	-Inf	3	Horizontal	196	1.43
2412MHz	Pass	AV	4.82572G	32.43	54.00	-21.57	3	Vertical	16	1.02
2412MHz	Pass	PK	4.83064G	45.01	74.00	-28.99	3	Vertical	16	1.02
2412MHz	Pass	AV	4.8237G	33.27	54.00	-20.73	3	Horizontal	149	1.22
2412MHz	Pass	PK	4.82582G	46.05	74.00	-27.95	3	Horizontal	149	1.22
2417MHz	Pass	AV	2.3888G	47.52	54.00	-6.48	3	Vertical	289	2.82
2417MHz	Pass	AV	2.418G	104.22	Inf	-Inf	3	Vertical	289	2.82
2417MHz	Pass	PK	2.3898G	62.46	74.00	-11.54	3	Vertical	289	2.82
2417MHz	Pass	PK	2.4182G	112.05	Inf	-Inf	3	Vertical	289	2.82
2417MHz	Pass	AV	2.3896G	46.94	54.00	-7.06	3	Horizontal	196	1.44
2417MHz	Pass	AV	2.4144G	98.63	Inf	-Inf	3	Horizontal	196	1.44
2417MHz	Pass	PK	2.3898G	64.80	74.00	-9.20	3	Horizontal	196	1.44
2417MHz	Pass	PK	2.4144G	107.39	Inf	-Inf	3	Horizontal	196	1.44
2437MHz	Pass	AV	2.3898G	47.16	54.00	-6.84	3	Vertical	286	2.99
2437MHz	Pass	AV	2.4406G	104.19	Inf	-Inf	3	Vertical	286	2.99
2437MHz	Pass	AV	2.4846G	47.74	54.00	-6.26	3	Vertical	286	2.99
2437MHz	Pass	PK	2.3782G	59.33	74.00	-14.67	3	Vertical	286	2.99
2437MHz	Pass	PK	2.4354G	111.89	Inf	-Inf	3	Vertical	286	2.99
2437MHz	Pass	PK	2.4866G	61.82	74.00	-12.18	3	Vertical	286	2.99
2437MHz	Pass	AV	2.3866G	46.18	54.00	-7.82	3	Horizontal	196	1.50
2437MHz	Pass	AV	2.4318G	100.03	Inf	-Inf	3	Horizontal	196	1.50
2437MHz	Pass	AV	2.4862G	46.77	54.00	-7.23	3	Horizontal	196	1.50
2437MHz	Pass	PK	2.381G	58.39	74.00	-15.61	3	Horizontal	196	1.50
2437MHz	Pass	PK	2.4414G	108.12	Inf	-Inf	3	Horizontal	196	1.50
2437MHz	Pass	PK	2.4842G	58.98	74.00	-15.02	3	Horizontal	196	1.50
2437MHz	Pass	AV	4.87589G	34.19	54.00	-19.81	3	Vertical	22	1.50
2437MHz	Pass	AV	7.30992G	38.87	54.00	-15.13	3	Vertical	348	2.92
2437MHz	Pass	PK	4.87616G	48.33	74.00	-25.67	3	Vertical	22	1.50
2437MHz	Pass	PK	7.31022G	51.87	74.00	-22.13	3	Vertical	348	2.92
2437MHz	Pass	AV	4.87586G	36.95	54.00	-17.05	3	Horizontal	139	1.00
2437MHz	Pass	AV	7.29654G	38.19	54.00	-15.81	3	Horizontal	112	1.50
2437MHz	Pass	PK	4.87643G	50.78	74.00	-23.22	3	Horizontal	139	1.00
2437MHz	Pass	PK	7.29966G	50.72	74.00	-23.28	3	Horizontal	112	1.50
2457MHz	Pass	AV	2.4606G	103.28	Inf	-Inf	3	Vertical	289	2.96
2457MHz	Pass	AV	2.485G	49.24	54.00	-4.76	3	Vertical	289	2.96
2457MHz	Pass	PK	2.4606G	110.95	Inf	-Inf	3	Vertical	289	2.96
2457MHz	Pass	PK	2.4848G	64.28	74.00	-9.72	3	Vertical	289	2.96
2457MHz	Pass	AV	2.452G	98.53	Inf	-Inf	3	Horizontal	195	1.46
2457MHz	Pass	AV	2.4835G	47.66	54.00	-6.34	3	Horizontal	195	1.46
2457MHz	Pass	PK	2.4616G	106.78	Inf	-Inf	3	Horizontal	195	1.46
2457MHz	Pass	PK	2.487G	60.72	74.00	-13.28	3	Horizontal	195	1.46
2462MHz	Pass	AV	2.463G	102.27	Inf	-Inf	3	Vertical	288	2.95
2462MHz	Pass	AV	2.4835G	51.43	54.00	-2.57	3	Vertical	288	2.95
2462MHz	Pass	PK	2.4586G	110.25	Inf	-Inf	3	Vertical	288	2.95
2462MHz	Pass	PK	2.4836G	66.06	74.00	-7.94	3	Vertical	288	2.95
2462MHz	Pass	AV	2.4594G	97.65	Inf	-Inf	3	Horizontal	195	1.49
2462MHz	Pass	AV	2.484G	48.67	54.00	-5.33	3	Horizontal	195	1.49
2462MHz	Pass	PK	2.4594G	106.43	Inf	-Inf	3	Horizontal	195	1.49
2462MHz	Pass	PK	2.4844G	63.25	74.00	-10.75	3	Horizontal	195	1.49
2462MHz	Pass	AV	4.92439G	33.02	54.00	-20.98	3	Vertical	20	1.03

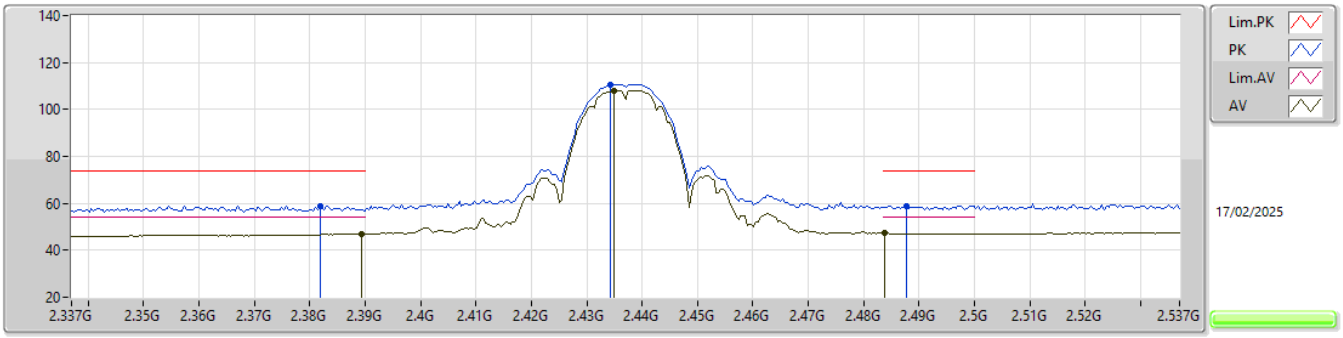
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2462MHz	Pass	AV	7.3716G	37.79	54.00	-16.21	3	Vertical	217	1.31
2462MHz	Pass	PK	4.91473G	45.73	74.00	-28.27	3	Vertical	20	1.03
2462MHz	Pass	PK	7.38363G	50.43	74.00	-23.57	3	Vertical	217	1.31
2462MHz	Pass	AV	4.91983G	34.50	54.00	-19.50	3	Horizontal	126	2.44
2462MHz	Pass	AV	7.3713G	37.80	54.00	-16.20	3	Horizontal	154	2.92
2462MHz	Pass	PK	4.92235G	46.29	74.00	-27.71	3	Horizontal	126	2.44
2462MHz	Pass	PK	7.3941G	50.95	74.00	-23.05	3	Horizontal	154	2.92
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3898G	46.00	54.00	-8.00	3	Vertical	351	1.50
2412MHz	Pass	AV	2.4106G	91.34	Inf	-Inf	3	Vertical	351	1.50
2412MHz	Pass	PK	2.3864G	58.79	74.00	-15.21	3	Vertical	351	1.50
2412MHz	Pass	PK	2.4128G	103.89	Inf	-Inf	3	Vertical	351	1.50
2412MHz	Pass	AV	2.39G	46.99	54.00	-7.01	3	Horizontal	40	2.88
2412MHz	Pass	AV	2.4106G	95.57	Inf	-Inf	3	Horizontal	40	2.88
2412MHz	Pass	PK	2.39G	60.07	74.00	-13.93	3	Horizontal	40	2.88
2412MHz	Pass	PK	2.4128G	108.13	Inf	-Inf	3	Horizontal	40	2.88
2412MHz	Pass	AV	4.82074G	32.31	54.00	-21.69	3	Vertical	213	2.78
2412MHz	Pass	PK	4.8189G	45.75	74.00	-28.25	3	Vertical	213	2.78
2412MHz	Pass	AV	4.82382G	32.78	54.00	-21.22	3	Horizontal	202	2.47
2412MHz	Pass	PK	4.81444G	46.33	74.00	-27.67	3	Horizontal	202	2.47
2417MHz	Pass	AV	2.3884G	49.39	54.00	-4.61	3	Vertical	136	1.33
2417MHz	Pass	AV	2.42G	95.48	Inf	-Inf	3	Vertical	136	1.33
2417MHz	Pass	PK	2.3896G	59.49	74.00	-14.51	3	Vertical	136	1.33
2417MHz	Pass	PK	2.4178G	107.95	Inf	-Inf	3	Vertical	136	1.33
2417MHz	Pass	AV	2.3898G	46.12	54.00	-7.88	3	Horizontal	223	1.28
2417MHz	Pass	AV	2.4154G	92.85	Inf	-Inf	3	Horizontal	223	1.28
2417MHz	Pass	PK	2.3764G	58.89	74.00	-15.11	3	Horizontal	223	1.28
2417MHz	Pass	PK	2.4178G	105.22	Inf	-Inf	3	Horizontal	223	1.28
2437MHz	Pass	AV	2.3886G	45.84	54.00	-8.16	3	Vertical	352	1.43
2437MHz	Pass	AV	2.4354G	94.01	Inf	-Inf	3	Vertical	352	1.43
2437MHz	Pass	AV	2.4894G	46.58	54.00	-7.42	3	Vertical	352	1.43
2437MHz	Pass	PK	2.3838G	58.55	74.00	-15.45	3	Vertical	352	1.43
2437MHz	Pass	PK	2.4378G	106.19	Inf	-Inf	3	Vertical	352	1.43
2437MHz	Pass	PK	2.4835G	59.39	74.00	-14.61	3	Vertical	352	1.43
2437MHz	Pass	AV	2.3886G	46.13	54.00	-7.87	3	Horizontal	317	2.75
2437MHz	Pass	AV	2.4386G	100.29	Inf	-Inf	3	Horizontal	317	2.75
2437MHz	Pass	AV	2.4862G	47.01	54.00	-6.99	3	Horizontal	317	2.75
2437MHz	Pass	PK	2.3722G	59.17	74.00	-14.83	3	Horizontal	317	2.75
2437MHz	Pass	PK	2.4378G	112.73	Inf	-Inf	3	Horizontal	317	2.75
2437MHz	Pass	PK	2.485G	59.73	74.00	-14.27	3	Horizontal	317	2.75
2437MHz	Pass	AV	4.87088G	33.93	54.00	-20.07	3	Vertical	14	1.00
2437MHz	Pass	AV	7.29702G	38.20	54.00	-15.80	3	Vertical	329	1.50
2437MHz	Pass	PK	4.87403G	47.63	74.00	-26.37	3	Vertical	14	1.00
2437MHz	Pass	PK	7.30746G	51.31	74.00	-22.69	3	Vertical	329	1.50
2437MHz	Pass	AV	4.87682G	35.69	54.00	-18.31	3	Horizontal	140	1.00
2437MHz	Pass	AV	7.32456G	38.17	54.00	-15.83	3	Horizontal	285	1.85
2437MHz	Pass	PK	4.88039G	49.57	74.00	-24.43	3	Horizontal	140	1.00
2437MHz	Pass	PK	7.30569G	51.05	74.00	-22.95	3	Horizontal	285	1.85
2457MHz	Pass	AV	2.4584G	97.86	Inf	-Inf	3	Vertical	113	2.90
2457MHz	Pass	AV	2.4835G	47.79	54.00	-6.21	3	Vertical	113	2.90
2457MHz	Pass	PK	2.4578G	110.42	Inf	-Inf	3	Vertical	113	2.90
2457MHz	Pass	PK	2.4835G	63.39	74.00	-10.61	3	Vertical	113	2.90
2457MHz	Pass	AV	2.46G	101.27	Inf	-Inf	3	Horizontal	329	2.96
2457MHz	Pass	AV	2.4868G	51.03	54.00	-2.97	3	Horizontal	329	2.96
2457MHz	Pass	PK	2.4578G	113.72	Inf	-Inf	3	Horizontal	329	2.96
2457MHz	Pass	PK	2.4835G	66.11	74.00	-7.89	3	Horizontal	329	2.96
2462MHz	Pass	AV	2.459G	94.46	Inf	-Inf	3	Vertical	136	1.50
2462MHz	Pass	AV	2.4838G	47.97	54.00	-6.03	3	Vertical	136	1.50
2462MHz	Pass	PK	2.4628G	106.76	Inf	-Inf	3	Vertical	136	1.50
2462MHz	Pass	PK	2.4846G	61.75	74.00	-12.25	3	Vertical	136	1.50
2462MHz	Pass	AV	2.4636G	99.69	Inf	-Inf	3	Horizontal	333	2.89
2462MHz	Pass	AV	2.4835G	49.80	54.00	-4.20	3	Horizontal	333	2.89

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2462MHz	Pass	PK	2.4628G	112.19	Inf	-Inf	3	Horizontal	333	2.89
2462MHz	Pass	PK	2.4848G	64.87	74.00	-9.13	3	Horizontal	333	2.89
2462MHz	Pass	AV	4.92703G	32.72	54.00	-21.28	3	Vertical	257	2.47
2462MHz	Pass	AV	7.37196G	37.75	54.00	-16.25	3	Vertical	255	1.50
2462MHz	Pass	PK	4.92265G	45.96	74.00	-28.04	3	Vertical	257	2.47
2462MHz	Pass	PK	7.39899G	50.63	74.00	-23.37	3	Vertical	255	1.50
2462MHz	Pass	AV	4.91065G	32.21	54.00	-21.79	3	Horizontal	98	1.50
2462MHz	Pass	AV	7.37115G	37.76	54.00	-16.24	3	Horizontal	98	1.14
2462MHz	Pass	PK	4.93759G	45.07	74.00	-28.93	3	Horizontal	98	1.50
2462MHz	Pass	PK	7.3908G	51.30	74.00	-22.70	3	Horizontal	98	1.14
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.39G	45.90	54.00	-8.10	3	Vertical	135	1.34
2422MHz	Pass	AV	2.4208G	89.74	Inf	-Inf	3	Vertical	135	1.34
2422MHz	Pass	AV	2.4932G	46.59	54.00	-7.41	3	Vertical	135	1.34
2422MHz	Pass	PK	2.3612G	58.33	74.00	-15.67	3	Vertical	135	1.34
2422MHz	Pass	PK	2.4232G	101.36	Inf	-Inf	3	Vertical	135	1.34
2422MHz	Pass	PK	2.4904G	59.15	74.00	-14.85	3	Vertical	135	1.34
2422MHz	Pass	AV	2.39G	46.17	54.00	-7.83	3	Horizontal	348	3.00
2422MHz	Pass	AV	2.4228G	93.70	Inf	-Inf	3	Horizontal	348	3.00
2422MHz	Pass	AV	2.4835G	46.70	54.00	-7.30	3	Horizontal	348	3.00
2422MHz	Pass	PK	2.3764G	58.62	74.00	-15.38	3	Horizontal	348	3.00
2422MHz	Pass	PK	2.4204G	105.86	Inf	-Inf	3	Horizontal	348	3.00
2422MHz	Pass	PK	2.486G	58.34	74.00	-15.66	3	Horizontal	348	3.00
2422MHz	Pass	AV	4.85188G	32.02	54.00	-21.98	3	Vertical	200	1.17
2422MHz	Pass	PK	4.83484G	44.65	74.00	-29.35	3	Vertical	200	1.17
2422MHz	Pass	AV	4.85564G	32.02	54.00	-21.98	3	Horizontal	0	1.50
2422MHz	Pass	PK	4.84352G	44.62	74.00	-29.38	3	Horizontal	0	1.50
2427MHz	Pass	AV	2.3898G	46.12	54.00	-7.88	3	Vertical	133	1.33
2427MHz	Pass	AV	2.4174G	88.48	Inf	-Inf	3	Vertical	133	1.33
2427MHz	Pass	AV	2.4906G	46.61	54.00	-7.39	3	Vertical	133	1.33
2427MHz	Pass	PK	2.3482G	58.42	74.00	-15.58	3	Vertical	133	1.33
2427MHz	Pass	PK	2.4254G	100.55	Inf	-Inf	3	Vertical	133	1.33
2427MHz	Pass	PK	2.4886G	58.56	74.00	-15.44	3	Vertical	133	1.33
2427MHz	Pass	AV	2.3894G	46.41	54.00	-7.59	3	Horizontal	346	3.00
2427MHz	Pass	AV	2.429G	92.13	Inf	-Inf	3	Horizontal	346	3.00
2427MHz	Pass	AV	2.491G	46.76	54.00	-7.24	3	Horizontal	346	3.00
2427MHz	Pass	PK	2.3698G	58.44	74.00	-15.56	3	Horizontal	346	3.00
2427MHz	Pass	PK	2.4438G	104.50	Inf	-Inf	3	Horizontal	346	3.00
2427MHz	Pass	PK	2.4906G	59.23	74.00	-14.77	3	Horizontal	346	3.00
2437MHz	Pass	AV	2.3898G	46.40	54.00	-7.60	3	Vertical	135	1.50
2437MHz	Pass	AV	2.4514G	91.00	Inf	-Inf	3	Vertical	135	1.50
2437MHz	Pass	AV	2.4838G	47.38	54.00	-6.62	3	Vertical	135	1.50
2437MHz	Pass	PK	2.387G	58.60	74.00	-15.40	3	Vertical	135	1.50
2437MHz	Pass	PK	2.439G	102.73	Inf	-Inf	3	Vertical	135	1.50
2437MHz	Pass	PK	2.4835G	58.82	74.00	-15.18	3	Vertical	135	1.50
2437MHz	Pass	AV	2.3898G	46.88	54.00	-7.12	3	Horizontal	345	2.95
2437MHz	Pass	AV	2.4478G	95.20	Inf	-Inf	3	Horizontal	345	2.95
2437MHz	Pass	AV	2.4835G	48.68	54.00	-5.32	3	Horizontal	345	2.95
2437MHz	Pass	PK	2.3898G	60.90	74.00	-13.10	3	Horizontal	345	2.95
2437MHz	Pass	PK	2.4506G	107.21	Inf	-Inf	3	Horizontal	345	2.95
2437MHz	Pass	PK	2.4858G	61.38	74.00	-12.62	3	Horizontal	345	2.95
2437MHz	Pass	AV	4.86998G	32.15	54.00	-21.85	3	Vertical	252	2.11
2437MHz	Pass	AV	7.29348G	38.21	54.00	-15.79	3	Vertical	98	1.53
2437MHz	Pass	PK	4.89026G	44.71	74.00	-29.29	3	Vertical	252	2.11
2437MHz	Pass	PK	7.31124G	51.22	74.00	-22.78	3	Vertical	98	1.53
2437MHz	Pass	AV	4.86944G	32.25	54.00	-21.75	3	Horizontal	217	1.50
2437MHz	Pass	AV	7.29048G	38.18	54.00	-15.82	3	Horizontal	158	2.99
2437MHz	Pass	PK	4.87976G	45.51	74.00	-28.49	3	Horizontal	217	1.50
2437MHz	Pass	PK	7.30326G	51.38	74.00	-22.62	3	Horizontal	158	2.99
2447MHz	Pass	AV	2.3894G	45.84	54.00	-8.16	3	Vertical	135	1.50
2447MHz	Pass	AV	2.4574G	89.61	Inf	-Inf	3	Vertical	135	1.50
2447MHz	Pass	AV	2.4838G	47.54	54.00	-6.46	3	Vertical	135	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2447MHz	Pass	PK	2.3578G	58.73	74.00	-15.27	3	Vertical	135	1.50
2447MHz	Pass	PK	2.457G	101.92	Inf	-Inf	3	Vertical	135	1.50
2447MHz	Pass	PK	2.489G	60.78	74.00	-13.22	3	Vertical	135	1.50
2447MHz	Pass	AV	2.3846G	45.74	54.00	-8.26	3	Horizontal	185	1.50
2447MHz	Pass	AV	2.449G	87.77	Inf	-Inf	3	Horizontal	185	1.50
2447MHz	Pass	AV	2.485G	47.29	54.00	-6.71	3	Horizontal	185	1.50
2447MHz	Pass	PK	2.3646G	58.13	74.00	-15.87	3	Horizontal	185	1.50
2447MHz	Pass	PK	2.4506G	100.26	Inf	-Inf	3	Horizontal	185	1.50
2447MHz	Pass	PK	2.4874G	59.62	74.00	-14.38	3	Horizontal	185	1.50
2452MHz	Pass	AV	2.388G	45.85	54.00	-8.15	3	Vertical	135	1.50
2452MHz	Pass	AV	2.4568G	89.49	Inf	-Inf	3	Vertical	135	1.50
2452MHz	Pass	AV	2.4856G	47.36	54.00	-6.64	3	Vertical	135	1.50
2452MHz	Pass	PK	2.376G	58.79	74.00	-15.21	3	Vertical	135	1.50
2452MHz	Pass	PK	2.4456G	101.21	Inf	-Inf	3	Vertical	135	1.50
2452MHz	Pass	PK	2.4972G	59.15	74.00	-14.85	3	Vertical	135	1.50
2452MHz	Pass	AV	2.3884G	46.02	54.00	-7.98	3	Horizontal	332	2.90
2452MHz	Pass	AV	2.4636G	94.31	Inf	-Inf	3	Horizontal	332	2.90
2452MHz	Pass	AV	2.4872G	48.69	54.00	-5.31	3	Horizontal	332	2.90
2452MHz	Pass	PK	2.3888G	58.54	74.00	-15.46	3	Horizontal	332	2.90
2452MHz	Pass	PK	2.4676G	106.02	Inf	-Inf	3	Horizontal	332	2.90
2452MHz	Pass	PK	2.4936G	61.52	74.00	-12.48	3	Horizontal	332	2.90
2452MHz	Pass	AV	4.90844G	32.15	54.00	-21.85	3	Vertical	247	2.24
2452MHz	Pass	AV	7.32654G	38.11	54.00	-15.89	3	Vertical	360	2.94
2452MHz	Pass	PK	4.90994G	45.06	74.00	-28.94	3	Vertical	247	2.24
2452MHz	Pass	PK	7.3278G	51.10	74.00	-22.90	3	Vertical	360	2.94
2452MHz	Pass	AV	4.90604G	32.21	54.00	-21.79	3	Horizontal	280	1.47
2452MHz	Pass	AV	7.32678G	38.09	54.00	-15.91	3	Horizontal	86	1.50
2452MHz	Pass	PK	4.88492G	45.32	74.00	-28.68	3	Horizontal	280	1.47
2452MHz	Pass	PK	7.3278G	50.77	74.00	-23.23	3	Horizontal	86	1.50

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

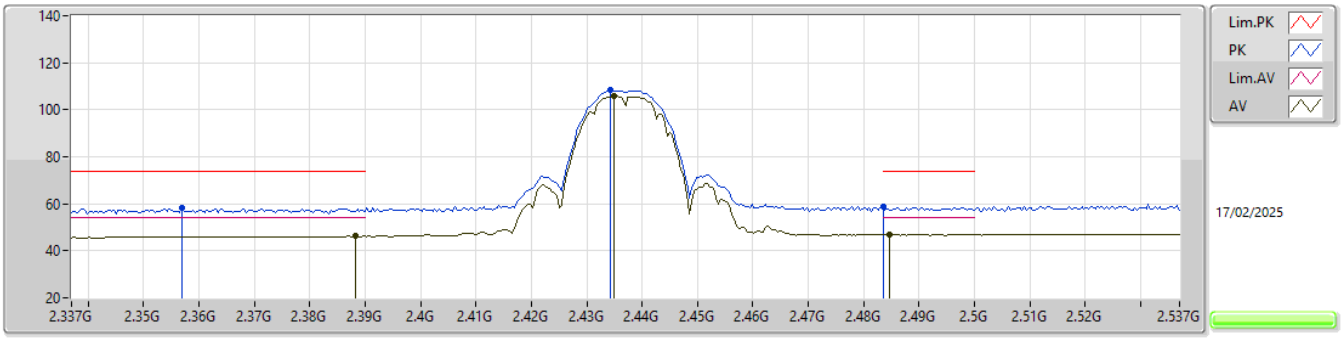
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.3894G	47.06	54.00	-6.94	32.66	3	Vertical	293	3.00	14.40	27.39	5.27	-
AV	2.435G	108.11	Inf	-Inf	33.04	3	Vertical	293	3.00	75.07	27.70	5.34	-
AV	2.4838G	47.31	54.00	-6.69	33.34	3	Vertical	293	3.00	13.97	27.90	5.44	-
PK	2.3818G	58.91	74.00	-15.09	32.58	3	Vertical	293	3.00	26.33	27.32	5.26	-
PK	2.4342G	110.73	Inf	-Inf	33.04	3	Vertical	293	3.00	77.69	27.70	5.34	-
PK	2.4878G	59.03	74.00	-14.97	33.34	3	Vertical	293	3.00	25.69	27.90	5.44	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

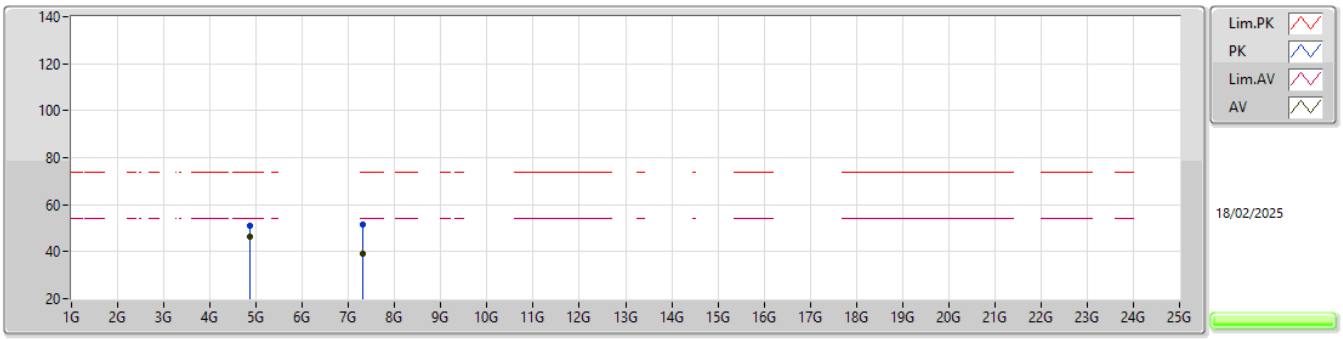
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.3882G	46.14	54.00	-7.86	32.65	3	Horizontal	195	1.51	13.49	27.38	5.27	-
AV	2.435G	105.75	Inf	-Inf	33.04	3	Horizontal	195	1.51	72.71	27.70	5.34	-
AV	2.4846G	46.84	54.00	-7.16	33.34	3	Horizontal	195	1.51	13.50	27.90	5.44	-
PK	2.357G	58.43	74.00	-15.57	32.64	3	Horizontal	195	1.51	25.79	27.40	5.24	-
PK	2.4342G	108.42	Inf	-Inf	33.04	3	Horizontal	195	1.51	75.38	27.70	5.34	-
PK	2.4835G	58.98	74.00	-15.02	33.33	3	Horizontal	195	1.51	25.65	27.90	5.43	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

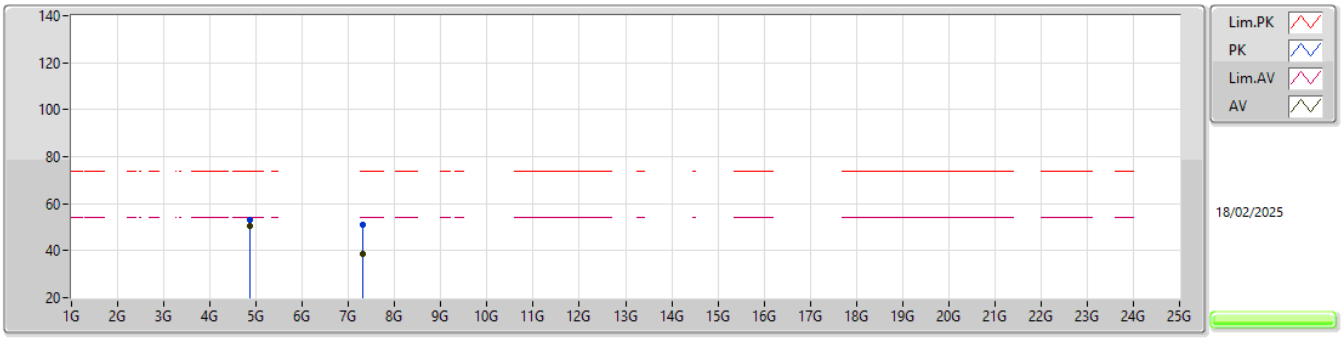
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.87382G	46.43	54.00	-7.57	-5.20	3	Vertical	179	1.66	51.63	32.80	7.77	45.77
AV	7.31385G	39.11	54.00	-14.89	1.25	3	Vertical	5	1.50	37.86	37.07	9.46	45.28
PK	4.87391G	50.91	74.00	-23.09	-5.20	3	Vertical	179	1.66	56.11	32.80	7.77	45.77
PK	7.30674G	51.30	74.00	-22.70	1.26	3	Vertical	5	1.50	50.04	37.09	9.46	45.29

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

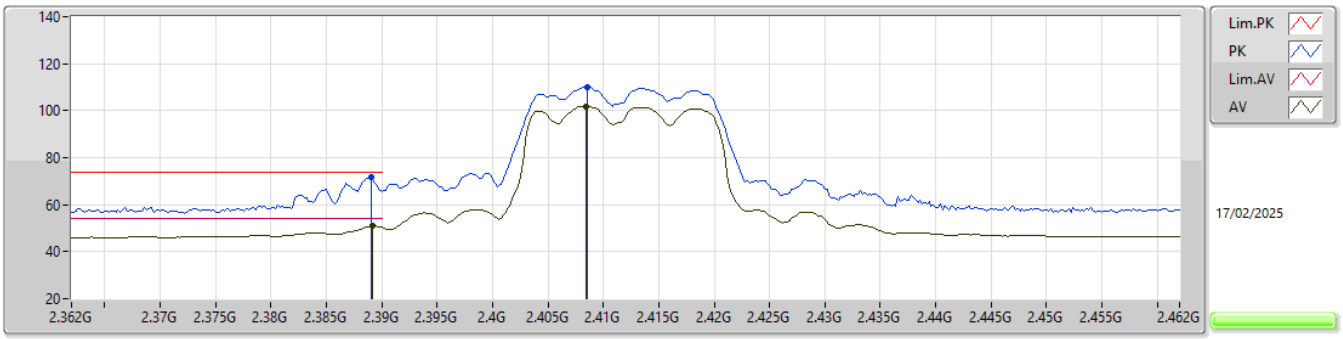
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.87388G	50.46	54.00	-3.54	-5.20	3	Horizontal	47	2.04	55.66	32.80	7.77	45.77
AV	7.31325G	38.55	54.00	-15.45	1.25	3	Horizontal	334	1.50	37.30	37.07	9.46	45.28
PK	4.87373G	53.23	74.00	-20.77	-5.20	3	Horizontal	47	2.04	58.43	32.80	7.77	45.77
PK	7.29711G	51.15	74.00	-22.85	1.27	3	Horizontal	334	1.50	49.88	37.11	9.46	45.30

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

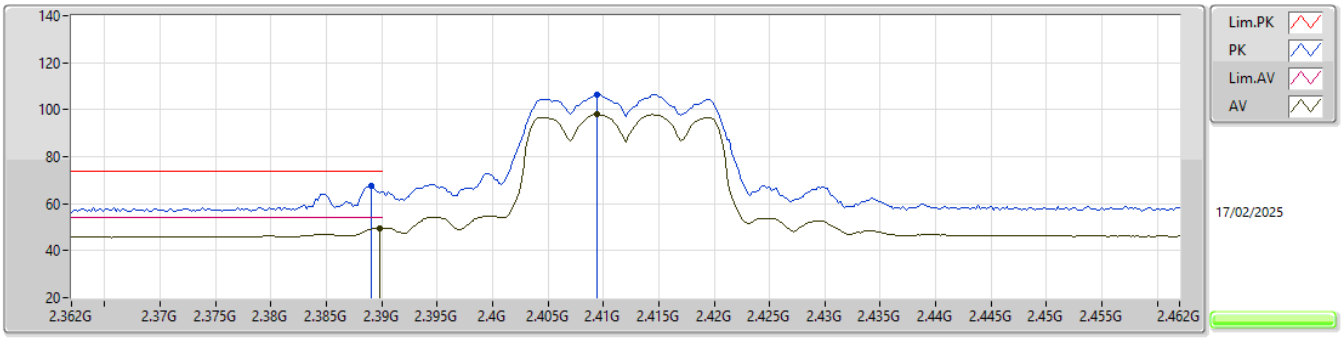
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.3892G	50.91	54.00	-3.09	32.66	3	Vertical	286	2.81	18.25	27.39	5.27	-
AV	2.4084G	101.81	Inf	-Inf	32.88	3	Vertical	286	2.81	68.93	27.58	5.30	-
PK	2.389G	71.61	74.00	-2.39	32.66	3	Vertical	286	2.81	38.95	27.39	5.27	-
PK	2.4086G	110.23	Inf	-Inf	32.89	3	Vertical	286	2.81	77.34	27.59	5.30	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

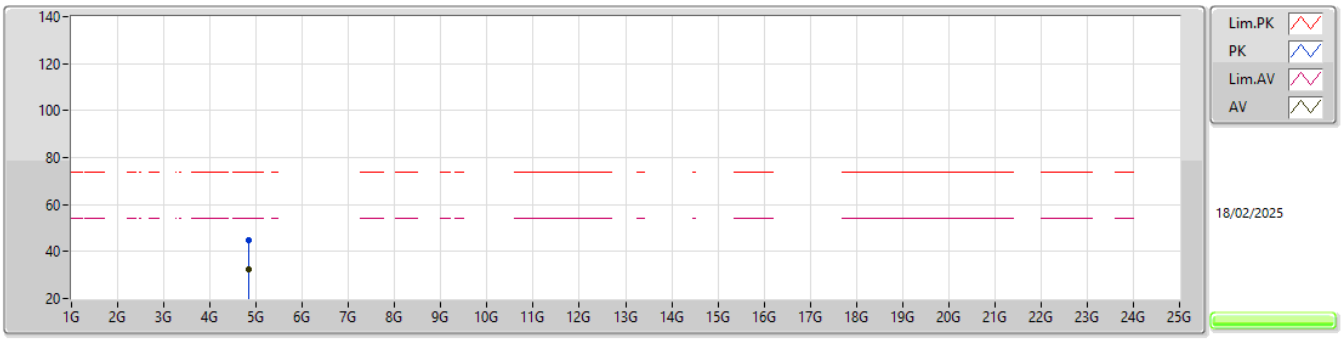
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	49.70	54.00	-4.30	32.67	3	Horizontal	196	1.43	17.03	27.40	5.27	-
AV	2.4094G	97.97	Inf	-Inf	32.89	3	Horizontal	196	1.43	65.08	27.59	5.30	-
PK	2.389G	67.69	74.00	-6.31	32.66	3	Horizontal	196	1.43	35.03	27.39	5.27	-
PK	2.4094G	106.57	Inf	-Inf	32.89	3	Horizontal	196	1.43	73.68	27.59	5.30	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

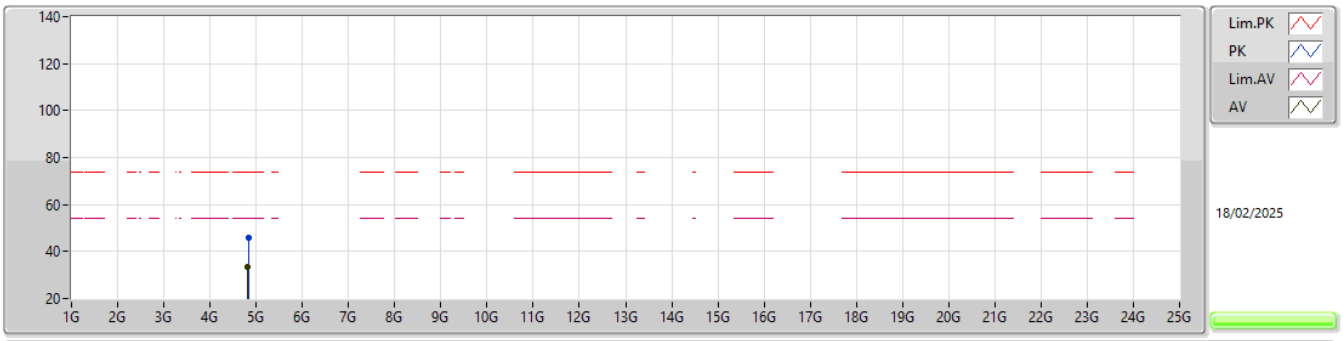
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.82572G	32.43	54.00	-21.57	-5.35	3	Vertical	16	1.02	37.78	32.70	7.73	45.78
PK	4.83064G	45.01	74.00	-28.99	-5.33	3	Vertical	16	1.02	50.34	32.72	7.73	45.78

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

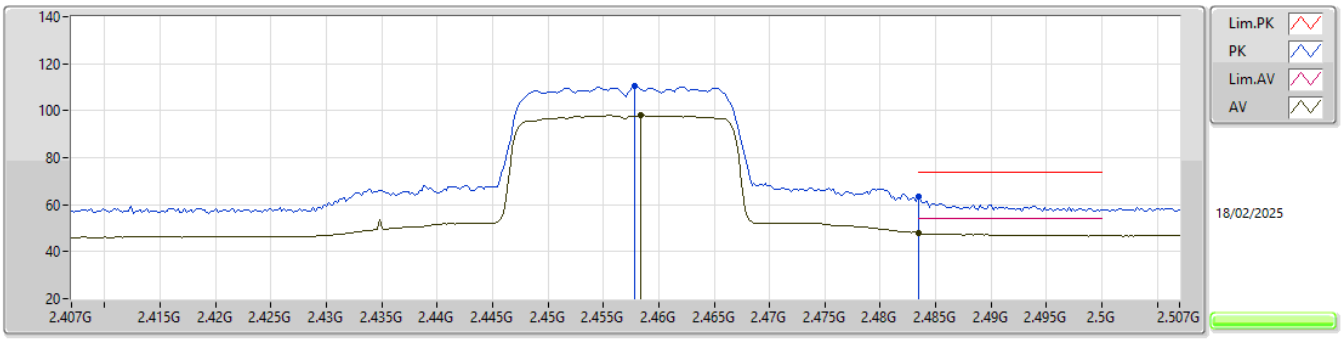
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.8237G	33.27	54.00	-20.73	-5.36	3	Horizontal	149	1.22	38.63	32.69	7.73	45.78
PK	4.82582G	46.05	74.00	-27.95	-5.35	3	Horizontal	149	1.22	51.40	32.70	7.73	45.78

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

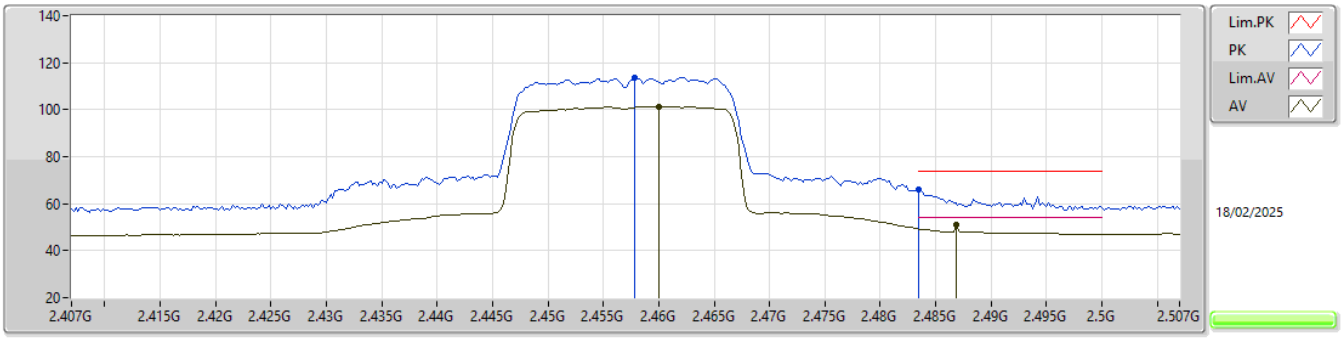
2457MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.4584G	97.86	Inf	-Inf	32.99	3	Vertical	113	2.90	64.87	27.60	5.39	-
AV	2.4835G	47.79	54.00	-6.21	33.33	3	Vertical	113	2.90	14.46	27.90	5.43	-
PK	2.4578G	110.42	Inf	-Inf	32.99	3	Vertical	113	2.90	77.43	27.60	5.39	-
PK	2.4835G	63.39	74.00	-10.61	33.33	3	Vertical	113	2.90	30.06	27.90	5.43	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

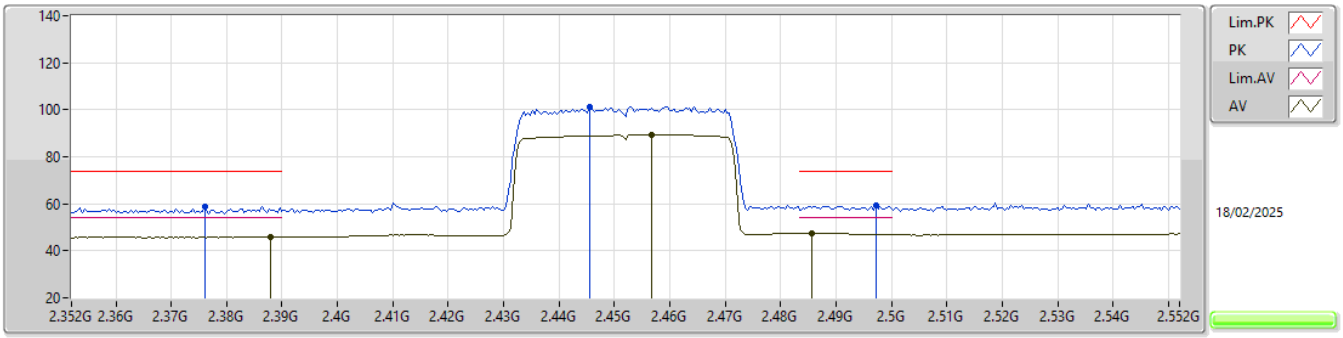
2457MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.46G	101.27	Inf	-Inf	32.99	3	Horizontal	329	2.96	68.28	27.60	5.39	-
AV	2.4868G	51.03	54.00	-2.97	33.34	3	Horizontal	329	2.96	17.69	27.90	5.44	-
PK	2.4578G	113.72	Inf	-Inf	32.99	3	Horizontal	329	2.96	80.73	27.60	5.39	-
PK	2.4835G	66.11	74.00	-7.89	33.33	3	Horizontal	329	2.96	32.78	27.90	5.43	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

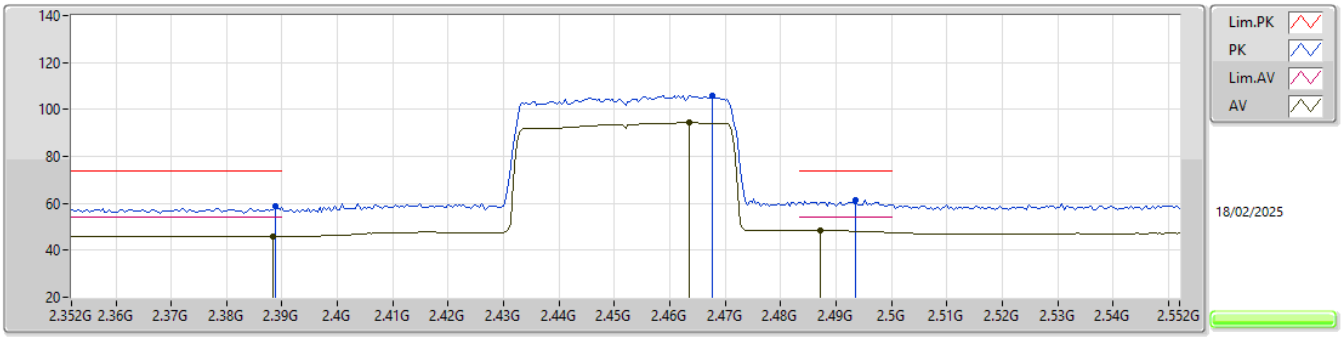
2452MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.388G	45.85	54.00	-8.15	32.65	3	Vertical	135	1.50	13.20	27.38	5.27	-
AV	2.4568G	89.49	Inf	-Inf	32.99	3	Vertical	135	1.50	56.50	27.60	5.39	-
AV	2.4856G	47.36	54.00	-6.64	33.34	3	Vertical	135	1.50	14.02	27.90	5.44	-
PK	2.376G	58.79	74.00	-15.21	32.56	3	Vertical	135	1.50	26.23	27.30	5.26	-
PK	2.4456G	101.21	Inf	-Inf	33.00	3	Vertical	135	1.50	68.21	27.64	5.36	-
PK	2.4972G	59.15	74.00	-14.85	33.36	3	Vertical	135	1.50	25.79	27.90	5.46	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

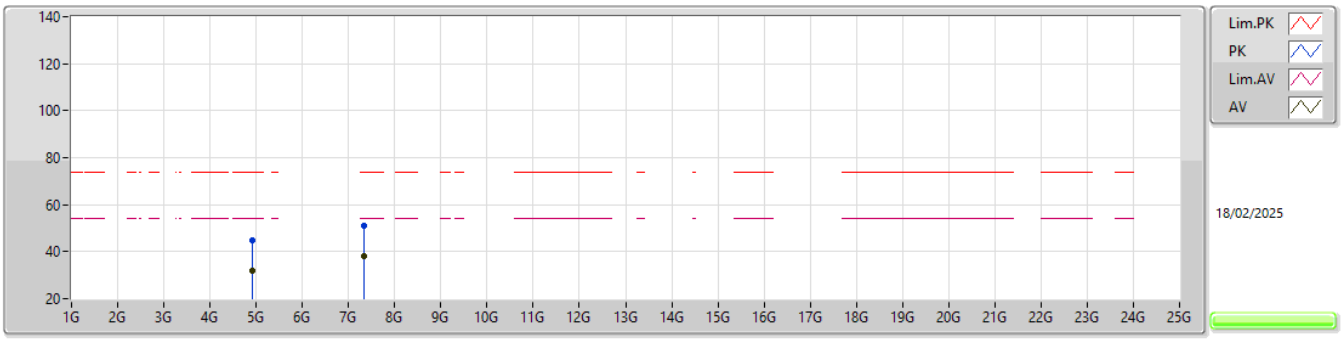
2452MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.3884G	46.02	54.00	-7.98	32.65	3	Horizontal	332	2.90	13.37	27.38	5.27	-
AV	2.4636G	94.31	Inf	-Inf	33.04	3	Horizontal	332	2.90	61.27	27.64	5.40	-
AV	2.4872G	48.69	54.00	-5.31	33.34	3	Horizontal	332	2.90	15.35	27.90	5.44	-
PK	2.3888G	58.54	74.00	-15.46	32.66	3	Horizontal	332	2.90	25.88	27.39	5.27	-
PK	2.4676G	106.02	Inf	-Inf	33.09	3	Horizontal	332	2.90	72.93	27.68	5.41	-
PK	2.4936G	61.52	74.00	-12.48	33.35	3	Horizontal	332	2.90	28.17	27.90	5.45	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

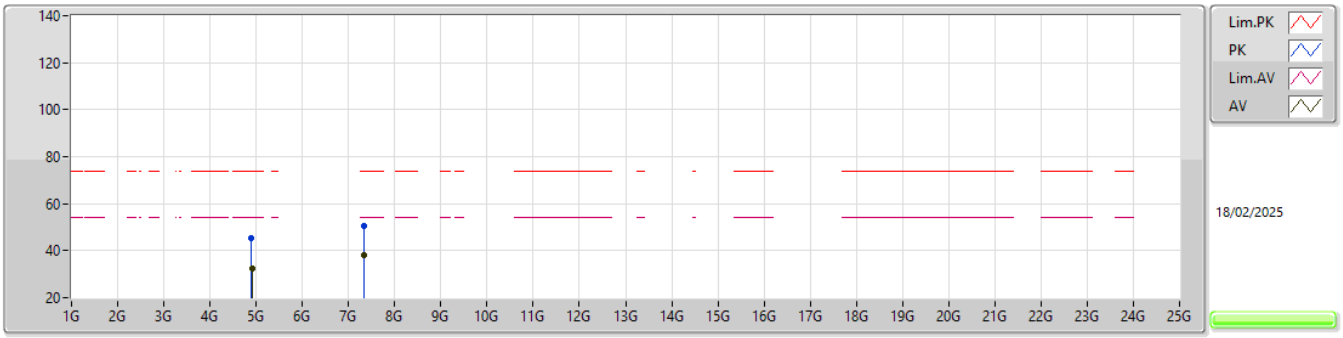
2452MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.90844G	32.15	54.00	-21.85	-5.12	3	Vertical	247	2.24	37.27	32.85	7.79	45.76
AV	7.32654G	38.11	54.00	-15.89	1.25	3	Vertical	360	2.94	36.86	37.05	9.46	45.26
PK	4.90994G	45.06	74.00	-28.94	-5.11	3	Vertical	247	2.24	50.17	32.86	7.79	45.76
PK	7.3278G	51.10	74.00	-22.90	1.24	3	Vertical	360	2.94	49.86	37.04	9.46	45.26

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.90604G	32.21	54.00	-21.79	-5.13	3	Horizontal	280	1.47	37.34	32.84	7.79	45.76
AV	7.32678G	38.09	54.00	-15.91	1.25	3	Horizontal	86	1.50	36.84	37.05	9.46	45.26
PK	4.88492G	45.32	74.00	-28.68	-5.20	3	Horizontal	280	1.47	50.52	32.80	7.77	45.77
PK	7.3278G	50.77	74.00	-23.23	1.24	3	Horizontal	86	1.50	49.53	37.04	9.46	45.26

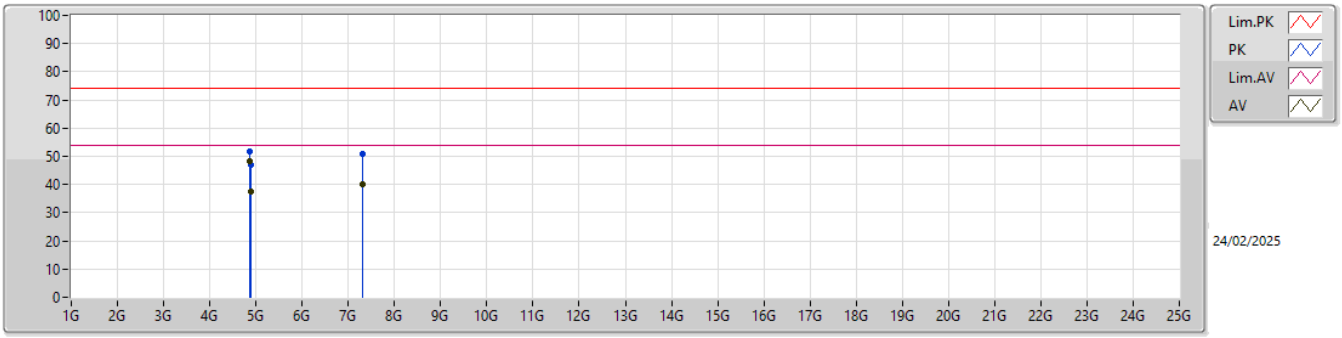
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.87385G	49.06	54.00	-4.94	Horizontal
Mode 2	Pass	AV	11.4888G	52.29	54.00	-1.71	Vertical

Result

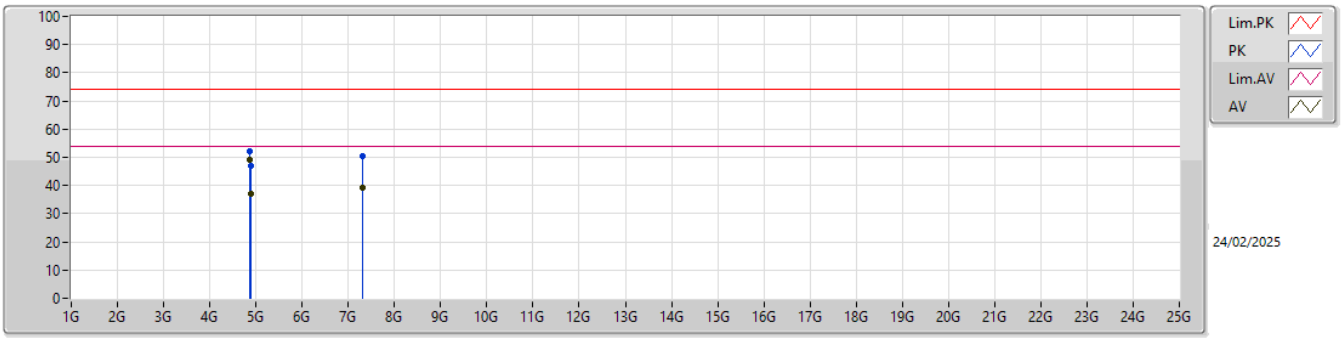
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	4.87386G	48.35	54.00	-5.65	3	Vertical	119	2.69	-
Mode 1	Pass	AV	4.8798G	37.31	54.00	-16.69	3	Vertical	306	1.76	-
Mode 1	Pass	AV	7.32056G	39.90	54.00	-14.10	3	Vertical	316	1.43	-
Mode 1	Pass	PK	4.87386G	51.55	74.00	-22.45	3	Vertical	119	2.69	-
Mode 1	Pass	PK	4.88007G	46.77	74.00	-27.23	3	Vertical	306	1.76	-
Mode 1	Pass	PK	7.3024G	50.91	74.00	-23.09	3	Vertical	316	1.43	-
Mode 1	Pass	AV	4.87385G	49.06	54.00	-4.94	3	Horizontal	127	1.89	-
Mode 1	Pass	AV	4.88G	37.07	54.00	-16.93	3	Horizontal	343	1.50	-
Mode 1	Pass	AV	7.31972G	39.15	54.00	-14.85	3	Horizontal	322	1.41	-
Mode 1	Pass	PK	4.87389G	52.18	74.00	-21.82	3	Horizontal	127	1.89	-
Mode 1	Pass	PK	4.87928G	47.01	74.00	-26.99	3	Horizontal	343	1.50	-
Mode 1	Pass	PK	7.31022G	50.37	74.00	-23.63	3	Horizontal	322	1.41	-
Mode 2	Pass	AV	4.87963G	35.16	54.00	-18.84	3	Vertical	306	1.72	-
Mode 2	Pass	AV	11.4888G	52.29	54.00	-1.71	3	Vertical	317	1.46	-
Mode 2	Pass	AV	17.23628G	48.75	68.20	-19.45	3	Vertical	195	2.78	-
Mode 2	Pass	PK	4.87969G	45.80	74.00	-28.20	3	Vertical	306	1.72	-
Mode 2	Pass	PK	11.49044G	64.24	74.00	-9.76	3	Vertical	317	1.46	-
Mode 2	Pass	PK	17.2278G	61.15	68.20	-7.05	3	Vertical	195	2.78	-
Mode 2	Pass	AV	4.87988G	36.40	54.00	-17.60	3	Horizontal	54	1.00	-
Mode 2	Pass	AV	11.49074G	47.49	54.00	-6.51	3	Horizontal	327	1.39	-
Mode 2	Pass	AV	17.24318G	44.05	68.20	-24.15	3	Horizontal	172	1.50	-
Mode 2	Pass	PK	4.87933G	46.00	74.00	-28.00	3	Horizontal	54	1.00	-
Mode 2	Pass	PK	11.48704G	58.66	74.00	-15.34	3	Horizontal	327	1.39	-
Mode 2	Pass	PK	17.24382G	55.21	68.20	-12.99	3	Horizontal	172	1.50	-

Radiated Emissions above 1GHz_Mode 1



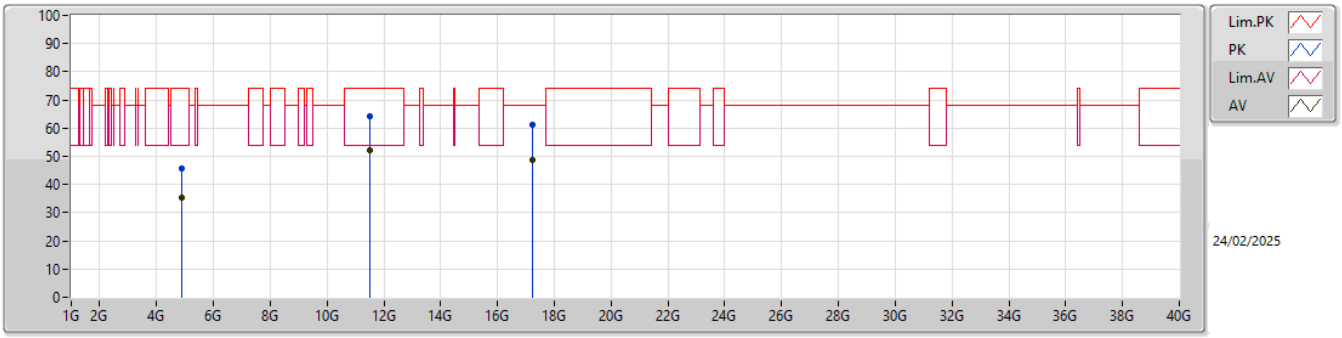
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV)	(dB/m)	(dB)	(dB)
AV	4.87386G	48.35	54.00	-5.65	-5.20	3	Vertical	119	2.69	-	53.55	32.80	7.77	45.77
AV	4.8798G	37.31	54.00	-16.69	-5.20	3	Vertical	306	1.76	-	42.51	32.80	7.77	45.77
AV	7.32056G	39.90	54.00	-14.10	1.25	3	Vertical	316	1.43	-	38.65	37.06	9.46	45.27
PK	4.87386G	51.55	74.00	-22.45	-5.20	3	Vertical	119	2.69	-	56.75	32.80	7.77	45.77
PK	4.88007G	46.77	74.00	-27.23	-5.20	3	Vertical	306	1.76	-	51.97	32.80	7.77	45.77
PK	7.3024G	50.91	74.00	-23.09	1.27	3	Vertical	316	1.43	-	49.64	37.10	9.46	45.29

Radiated Emissions above 1GHz_Mode 1



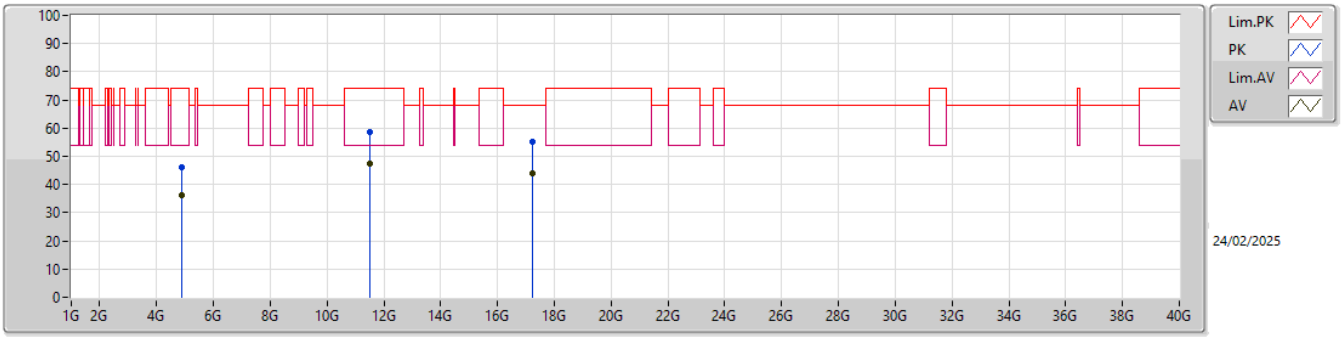
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV)	(dB/m)	(dB)	(dB)
AV	4.87385G	49.06	54.00	-4.94	-5.20	3	Horizontal	127	1.89	-	54.26	32.80	7.77	45.77
AV	4.88G	37.07	54.00	-16.93	-5.20	3	Horizontal	343	1.50	-	42.27	32.80	7.77	45.77
AV	7.31972G	39.15	54.00	-14.85	1.25	3	Horizontal	322	1.41	-	37.90	37.06	9.46	45.27
PK	4.87389G	52.18	74.00	-21.82	-5.20	3	Horizontal	127	1.89	-	57.38	32.80	7.77	45.77
PK	4.87928G	47.01	74.00	-26.99	-5.20	3	Horizontal	343	1.50	-	52.21	32.80	7.77	45.77
PK	7.31022G	50.37	74.00	-23.63	1.26	3	Horizontal	322	1.41	-	49.11	37.08	9.46	45.28

Radiated Emissions above 1GHz_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV)	(dB/m)	(dB)	(dB)
AV	4.87963G	35.16	54.00	-18.84	-5.20	3	Vertical	306	1.72	-	40.36	32.80	7.77	45.77
AV	11.4888G	52.29	54.00	-1.71	8.48	3	Vertical	317	1.46	-	43.81	39.00	12.05	42.57
AV	17.23628G	48.75	68.20	-19.45	8.96	3	Vertical	195	2.78	-	39.79	37.85	14.58	43.47
PK	4.87969G	45.80	74.00	-28.20	-5.20	3	Vertical	306	1.72	-	51.00	32.80	7.77	45.77
PK	11.49044G	64.24	74.00	-9.76	8.49	3	Vertical	317	1.46	-	55.75	39.00	12.05	42.56
PK	17.2278G	61.15	68.20	-7.05	8.91	3	Vertical	195	2.78	-	52.24	37.81	14.58	43.48

Radiated Emissions above 1GHz_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV)	(dB/m)	(dB)	(dB)
AV	4.87988G	36.40	54.00	-17.60	-5.20	3	Horizontal	54	1.00	-	41.60	32.80	7.77	45.77
AV	11.49074G	47.49	54.00	-6.51	8.49	3	Horizontal	327	1.39	-	39.00	39.00	12.05	42.56
AV	17.24318G	44.05	68.20	-24.15	8.98	3	Horizontal	172	1.50	-	35.07	37.87	14.58	43.47
PK	4.87933G	46.00	74.00	-28.00	-5.20	3	Horizontal	54	1.00	-	51.20	32.80	7.77	45.77
PK	11.48704G	58.66	74.00	-15.34	8.48	3	Horizontal	327	1.39	-	50.18	39.00	12.05	42.57
PK	17.24382G	55.21	68.20	-12.99	9.00	3	Horizontal	172	1.50	-	46.21	37.88	14.58	43.46