FCC Radio Test Report

FCC ID	:	**WS2-WG7A5101**
Equipment	:	**WIFI Module**
Brand Name	:	**Jorjin**
Model Name	:	**WG7A51-01**
Applicant	:	**JORJIN TECHNOLOGIES INC. 17F-1, No.239, Sec. 1, Datong Rd., Xizhi Dist.,New Taipei City 22161, Taiwan, R.O.C.**
Manufacturer	:	**JORJIN TECHNOLOGIES INC. 17F-1, No.239, Sec. 1, Datong Rd., Xizhi Dist.,New Taipei City 22161, Taiwan, R.O.C.**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Jan. 22, 2025, and testing was started from Mar. 11, 2025 and completed on Apr. 23, 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 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
FR4D1309AC	01	Initial issue of report	Jun. 27, 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	Only Employ DC Power Supply
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: Barry Hsiao

Report Producer: Michelle Tsai

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), ax(HEW20)	2412-2462	1-11 [11]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11ax 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.
- HEW20 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM modulation.
- BWch is the nominal channel bandwidth.
- Evaluated HEW20 mode only due to the similar modulation. The power setting of HT20 mode are the same or lower than HEW20.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	Unictron Technologies Corporation	AA077U	Chip Ant	Reverse SMA	2.4G+5G+BT

Ant.	Port	Gain (dBi)		
		2.4G	5G	Bluetooth
1	1	1.4	2.3	1.4

For 2.4GHz function:
For IEEE 802.11 b/g/n/ax mode (1TX/1RX)
Ant. 1 (port 1) could transmit/receive.
For 5GHz function:
For IEEE 802.11 a/n/ax mode (1TX/1RX)
Ant. 1 (port 1) could transmit/receive.
For BT function:
For IEEE 802.15.1 Bluetooth mode (1TX/1RX)
Ant. 1 (port 1) could transmit/receive.

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)_1TX	0.86	0.66	1.232m	1k
802.11g_Nss1,(6Mbps)_1TX	0.494	3.06	201.25u	5k
802.11ax HEW20_Nss1,(MCS0)_1TX	0.474	3.24	184.375u	10k

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

1.2 Testing Applied Standards

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

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

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

- KDB 558074 D01 v05r02
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab.：Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (**TAF:** 3785)	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		**FAX:** 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
RF Conducted	TH07-HY	Xun Hsieh	23.5~24.1°C / 50~53%	23/Apr/2025
☒ 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**
Radiated	03CH25-HY	Henry Ho	22.6~23.2°C / 51~53%	11/Mar/2025~20/Mar/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**
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
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	Radio Tool 2.3.0.rt

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	21
2417MHz	21
2437MHz	18
2457MHz	17
2462MHz	16
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	20
2417MHz	20
2437MHz	21
2457MHz	21
2462MHz	19
802.11ax HEW20_Nss1,(MCS0)_1TX	-
2412MHz	16
2417MHz	17
2437MHz	21
2457MHz	19
2462MHz	16

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

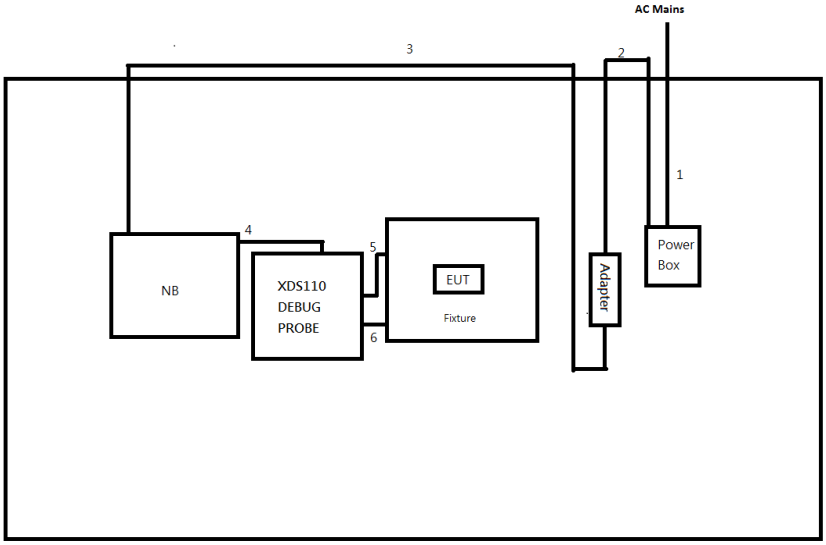
2.3 Support Equipment

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Test fixture	Texas Instruments	Sitara AM3358	-	Provided by Customer
4	XDSUO DEBUG PROBE	TEXAS INSTRUMENTS	TMDSEMU110-U	-	Provided by Customer
5	USB Cable	Sporton	USB cable-1	-	-

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Adapter for NB	DELL	HA65NM130	-	-
2	AC Power cable	Power sync	PW-GPC180-3	-	-
3	Notebook	DELL	E5410	-	-
4	Test fixture	Texas Instruments	Sitara AM3358	-	Provided by Customer
5	XDSUO DEBUG PROBE	TEXAS INSTRUMENTS	TMDSEMU110-U	-	Provided by Customer
6	USB Cable	Sporton	USB cable-1	-	-

2.4 Test Setup Diagram

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	1.5	-
3	DC Power cable	No	1.8	-
4	USB cable	No	0.8	-
5	fixture cable	No	0.1	-
6	fixture 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.

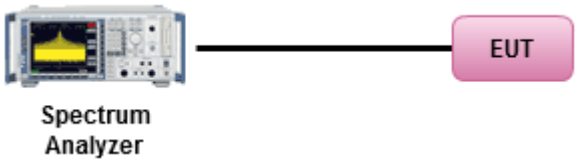
3.1.2 Measuring Instruments

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

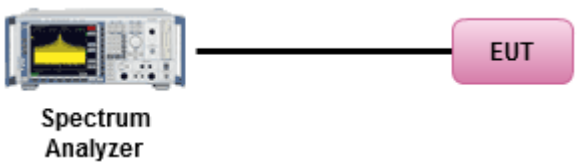
Refer a test equipment and calibration data table in this test report.

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

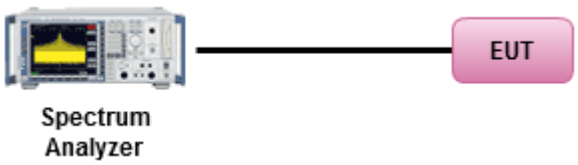
Refer a test equipment and calibration data table in this test report.

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.

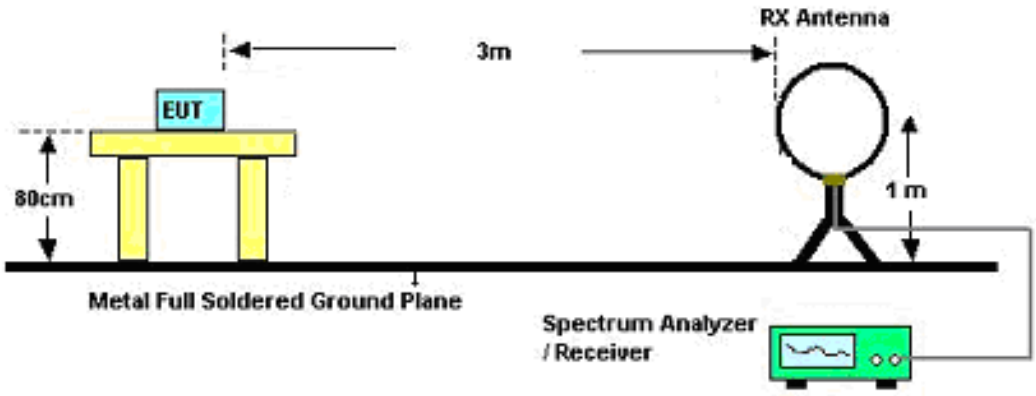
3.5.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

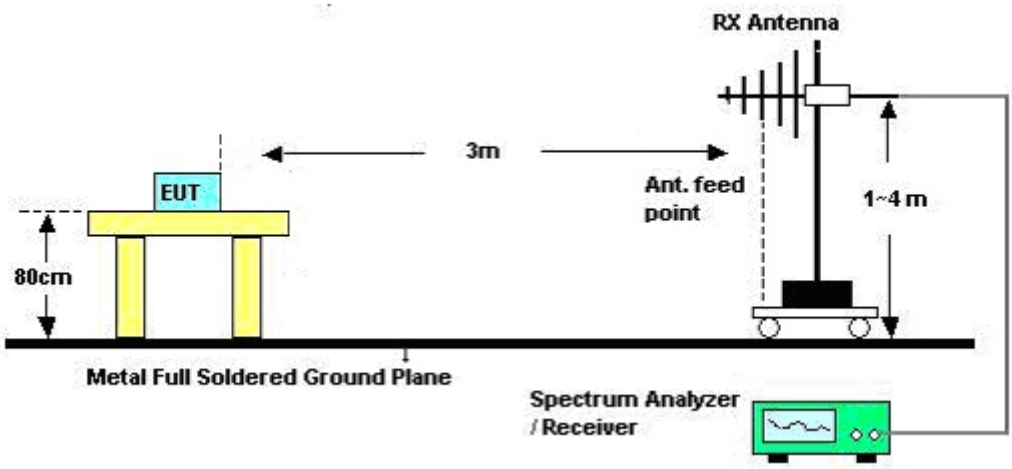
3.5.5 Test Setup

Emissions in Restricted Frequency Bands

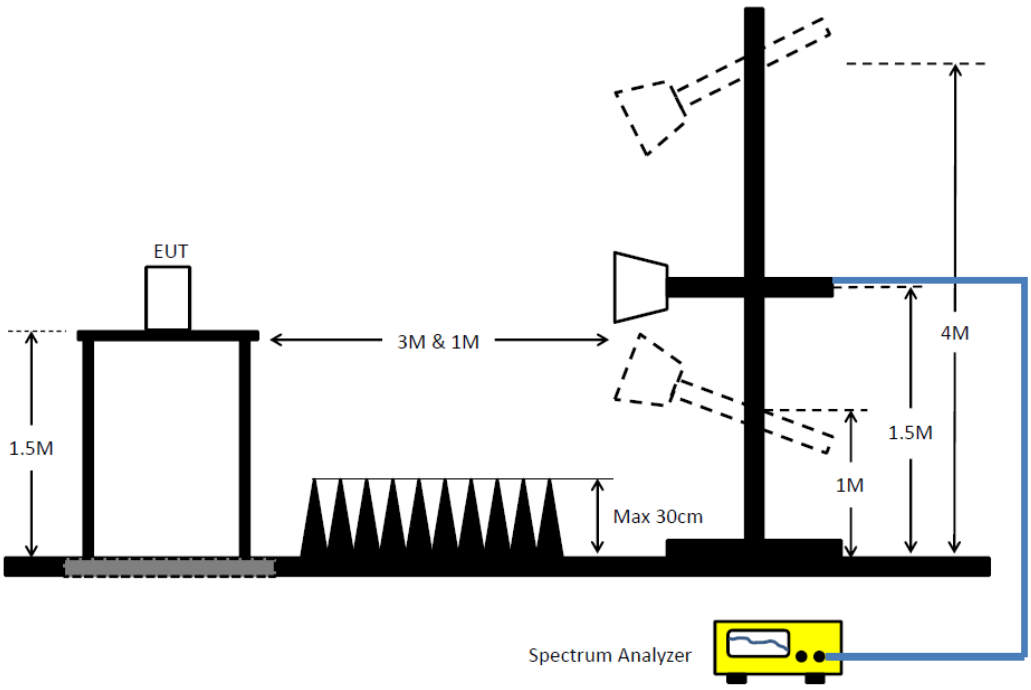
9kHz ~30MHz



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	FSV3044	101439	10Hz~44GHz	23/Dec/2024	22/Dec/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	18/Dec/2024	17/Dec/2025
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	18/Dec/2024	17/Dec/2025
SENSE-15247_DTS	Sporton	V5.11.23	N/A	N/A	N/A	N/A

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	30MHz~1GHz 3m	20/Jul/2024	19/Jul/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	1GHz~18GHz 3m	08/Aug/2024	07/Aug/2025
EMI Test Receiver	ROHDE & SCHWARZ	ESR7	102956	9kHz~3.6GHz	27/Aug/2024	26/Aug/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101410	10Hz~44GHz	18/Nov/2024	17/Nov/2025
Loop Antenna	TESEQ	HLA 6120	65417	9kHz~30MHz	17/Oct/2024	16/Oct/2025
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63537/001	30MHz~1GHz	30/May/2024	29/May/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02876	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	CB007	9kHz~1GHz	24/Apr/2024	23/Apr/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	1GHz~40GHz	15/Feb/2025	14/Feb/2026
Preamplifier	SGH	PRAMP 903	20230515-1	25MHz~3GHz	24/May/2024	23/May/2025
Preamplifier	SGH	PRAMP 118-H	20230515-3	1GHz~18GHz	24/May/2024	23/May/2025
Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	15/Apr/2024	14/Apr/2025
SENSE-15247-DTS	Sporton	V5.11.23	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)_1TX	7.875M	12.424M	12M4G1D	7.575M	12.365M
802.11g_Nss1,(6Mbps)_1TX	15.65M	16.67M	16M7D1D	12.4M	16.564M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.775M	18.885M	18M9D1D	15.65M	18.748M

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

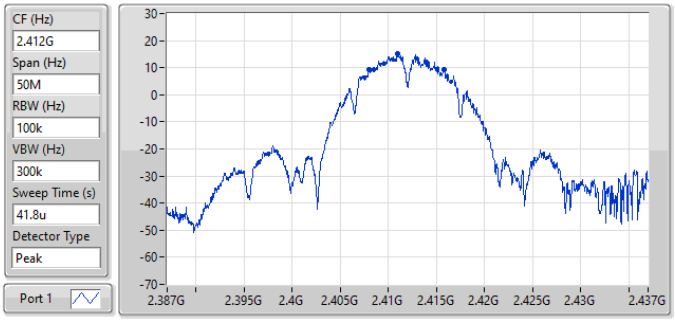
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	7.875M	12.398M
2437MHz	Pass	500k	7.575M	12.424M
2462MHz	Pass	500k	7.575M	12.365M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	15.65M	16.67M
2437MHz	Pass	500k	12.4M	16.564M
2462MHz	Pass	500k	14.7M	16.603M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	15.65M	18.748M
2437MHz	Pass	500k	18.475M	18.825M
2462MHz	Pass	500k	18.775M	18.885M

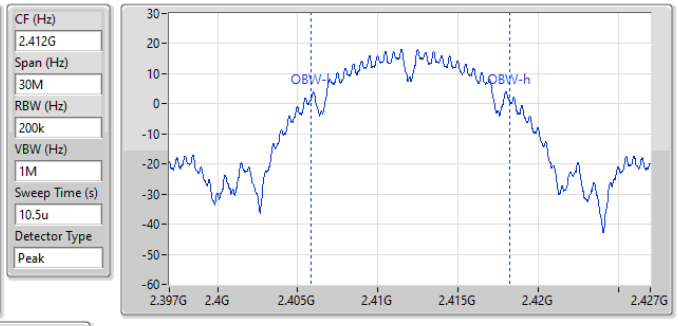
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

2412MHz

23/04/2025



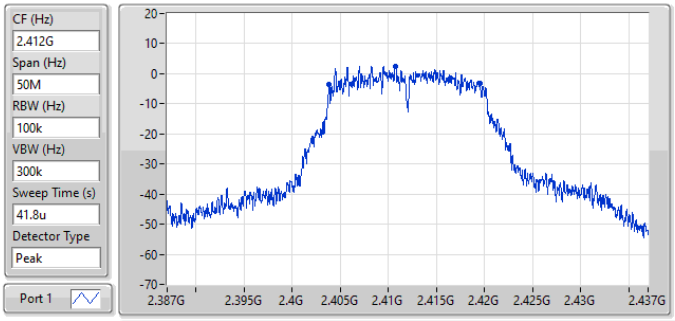


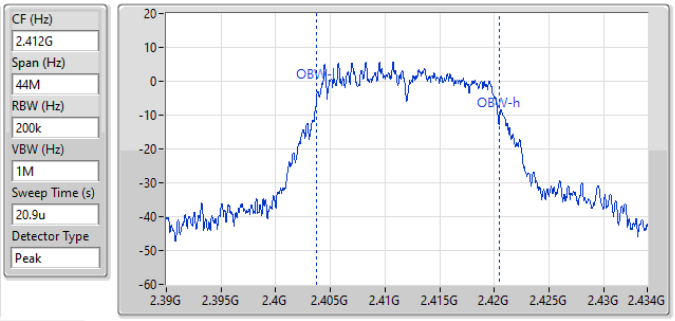
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.875M	2.40795G	2.415825G	12.398M	2.405802G	2.418201G	500k	1

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

2412MHz

23/04/2025



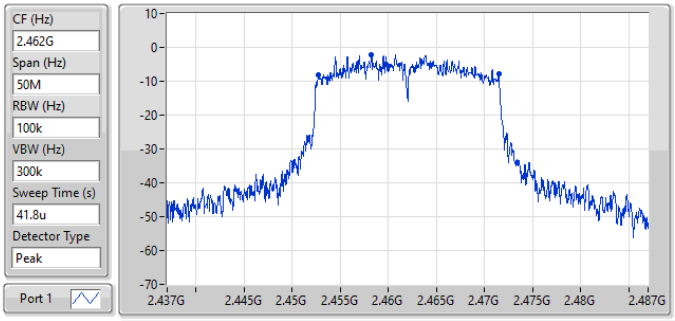


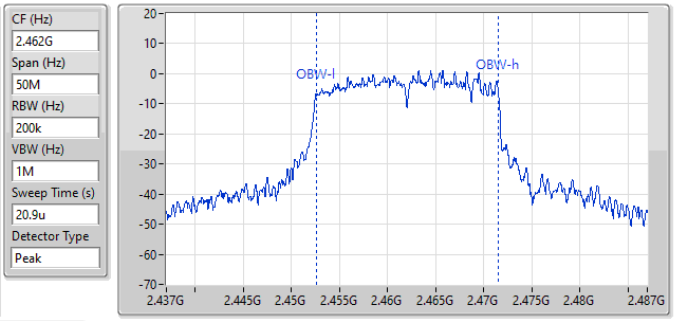
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.65M	2.40385G	2.4195G	16.67M	2.403768G	2.420438G	500k	1

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

2462MHz

23/04/2025





6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.775M	2.4527G	2.471475G	18.885M	2.452573G	2.471458G	500k	1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	16.64	0.04613
802.11g_Nss1,(6Mbps)_1TX	16.21	0.04178
802.11ax HEW20_Nss1,(MCS0)_1TX	16.06	0.04036

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	1.40	16.55	16.55	30.00
2417MHz	Pass	1.40	16.64	16.64	30.00
2437MHz	Pass	1.40	14.12	14.12	30.00
2457MHz	Pass	1.40	13.31	13.31	30.00
2462MHz	Pass	1.40	12.47	12.47	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	1.40	14.90	14.90	30.00
2417MHz	Pass	1.40	14.94	14.94	30.00
2437MHz	Pass	1.40	15.99	15.99	30.00
2457MHz	Pass	1.40	16.21	16.21	30.00
2462MHz	Pass	1.40	14.29	14.29	30.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	1.40	10.88	10.88	30.00
2417MHz	Pass	1.40	11.94	11.94	30.00
2437MHz	Pass	1.40	16.06	16.06	30.00
2457MHz	Pass	1.40	14.12	14.12	30.00
2462MHz	Pass	1.40	11.11	11.11	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	-7.71
802.11g_Nss1,(6Mbps)_1TX	-8.44
802.11ax HEW20_Nss1,(MCS0)_1TX	-10.54

RBW = 3kHz;

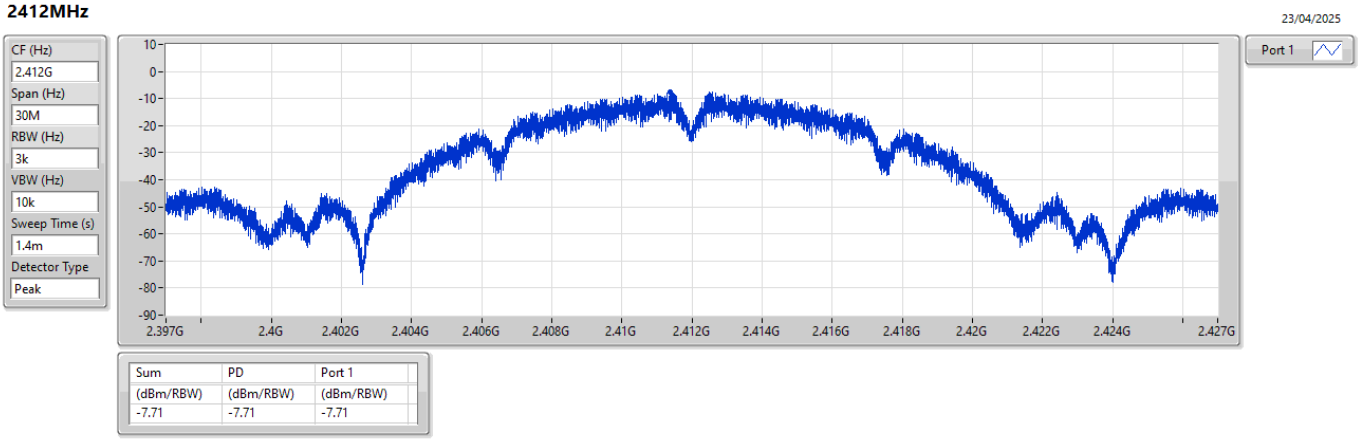
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	1.40	-7.71	-7.71	8.00
2437MHz	Pass	1.40	-9.12	-9.12	8.00
2462MHz	Pass	1.40	-11.60	-11.60	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	1.40	-9.40	-9.40	8.00
2437MHz	Pass	1.40	-8.44	-8.44	8.00
2462MHz	Pass	1.40	-10.90	-10.90	8.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	1.40	-16.59	-16.59	8.00
2437MHz	Pass	1.40	-10.54	-10.54	8.00
2462MHz	Pass	1.40	-16.11	-16.11	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.

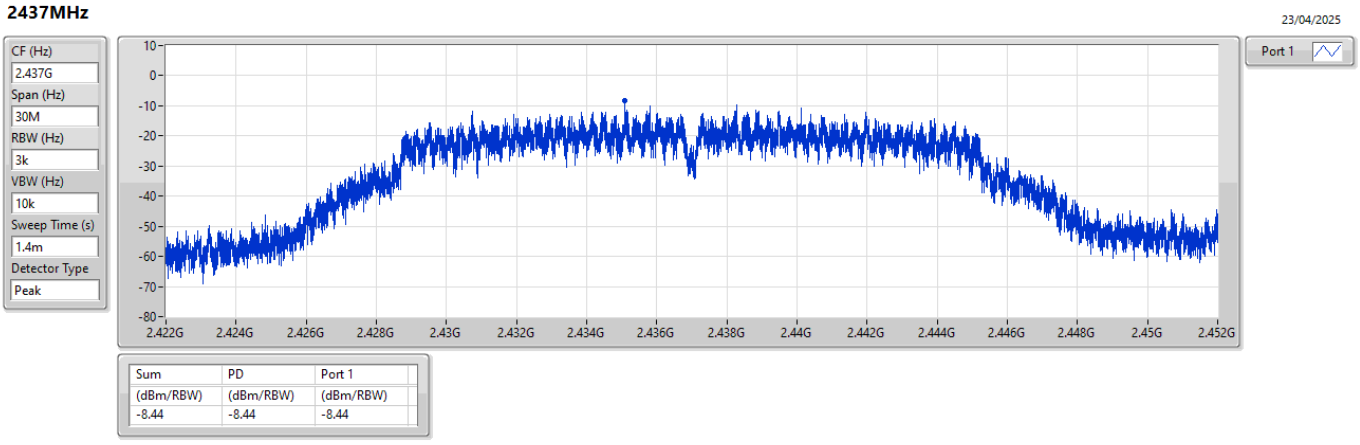
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX **PSD**

2412MHz



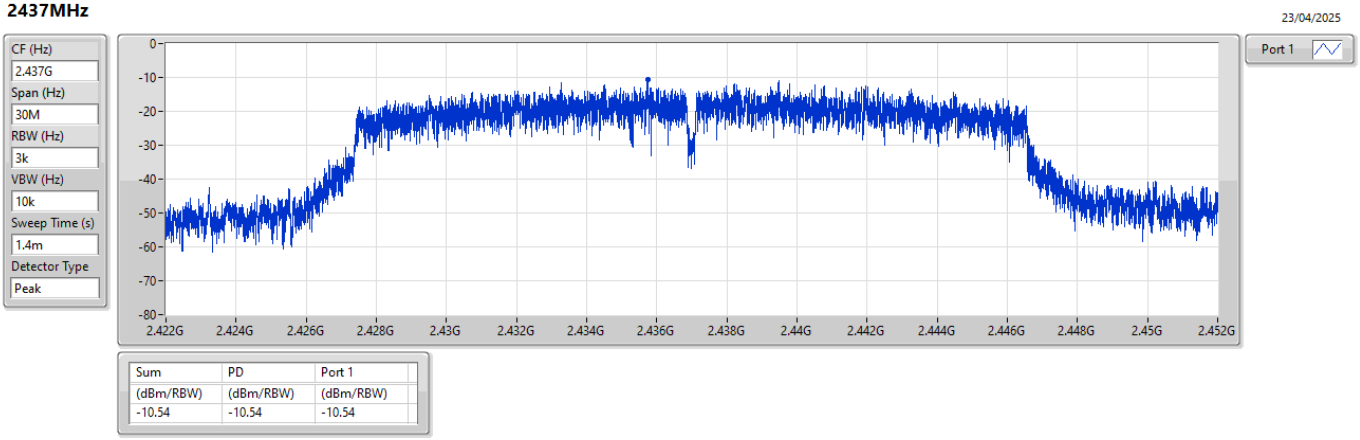
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX **PSD**

2437MHz



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

2437MHz



Summary

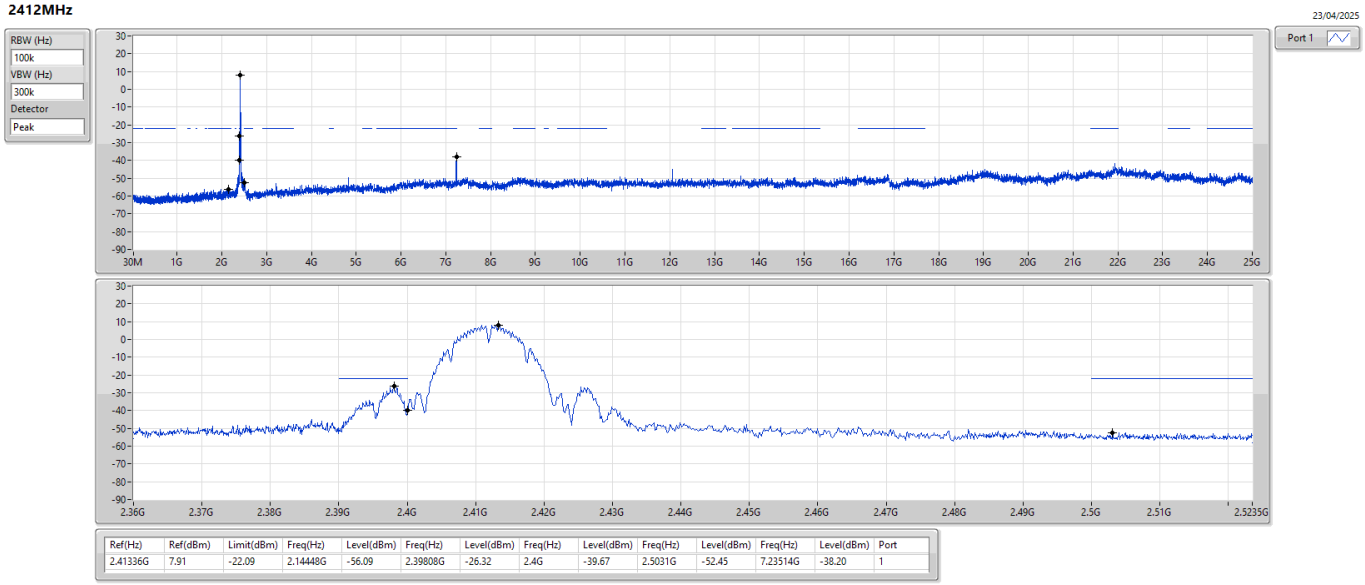
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.41336G	7.91	-22.09	2.14448G	-56.09	2.39808G	-26.32	2.4G	-39.67	2.5031G	-52.45	7.23514G	-38.20	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43941G	6.18	-23.82	1.87886G	-56.77	2.39984G	-32.63	2.4G	-32.40	2.50534G	-52.54	21.9741G	-43.21	1
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	2.43941G	6.02	-23.98	2.18991G	-45.18	2.39968G	-32.49	2.4G	-31.32	2.5031G	-43.32	21.98534G	-33.21	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	2.41336G	7.91	-22.09	2.14448G	-56.09	2.39808G	-26.32	2.4G	-39.67	2.5031G	-52.45	7.23514G	-38.20	1
2437MHz	Pass	2.41336G	7.91	-22.09	2.18176G	-56.59	2.4G	-50.39	2.4G	-52.26	2.5067G	-51.17	21.98815G	-43.86	1
2462MHz	Pass	2.41336G	7.91	-22.09	1.6412G	-55.76	2.39416G	-52.22	2.4G	-53.62	2.50078G	-51.53	21.97972G	-43.18	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43941G	6.18	-23.82	1.87886G	-56.77	2.39984G	-32.63	2.4G	-32.40	2.50534G	-52.54	21.9741G	-43.21	1
2437MHz	Pass	2.43941G	6.18	-23.82	2.1736G	-56.62	2.39952G	-44.81	2.4G	-44.31	2.50078G	-50.50	21.99377G	-43.70	1
2462MHz	Pass	2.43941G	6.18	-23.82	2.30059G	-56.37	2.39912G	-49.74	2.4G	-54.67	2.50206G	-49.08	21.98815G	-43.51	1
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43941G	6.02	-23.98	2.18991G	-45.18	2.39968G	-32.49	2.4G	-31.32	2.5031G	-43.32	21.98534G	-33.21	1
2437MHz	Pass	2.43941G	6.02	-23.98	2.10836G	-45.54	2.39672G	-39.25	2.4G	-41.32	2.51566G	-42.82	21.9432G	-32.67	1
2462MHz	Pass	2.43941G	6.02	-23.98	2.17244G	-46.28	2.39776G	-43.97	2.4G	-48.34	2.51974G	-43.00	21.96848G	-33.60	1

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

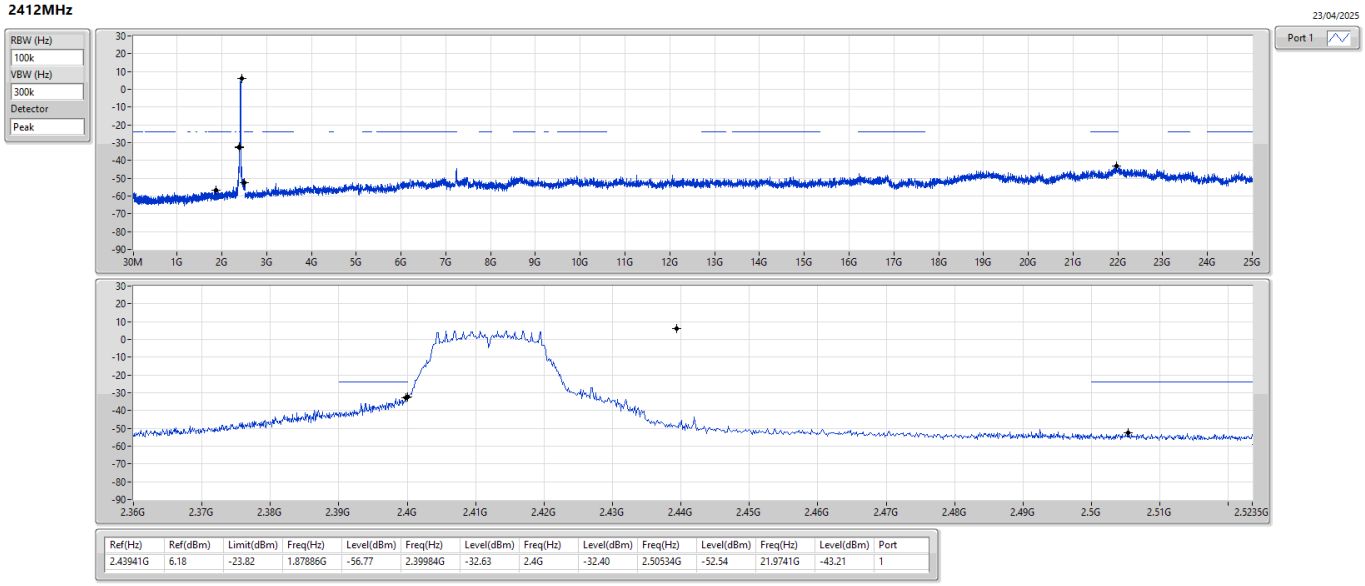
2412MHz



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
2.41336G	7.91	-22.09	2.14448G	-56.09	2.39808G	-26.32	2.4G	-39.67	2.5031G	-52.45	7.23514G	-38.20	1

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

2412MHz

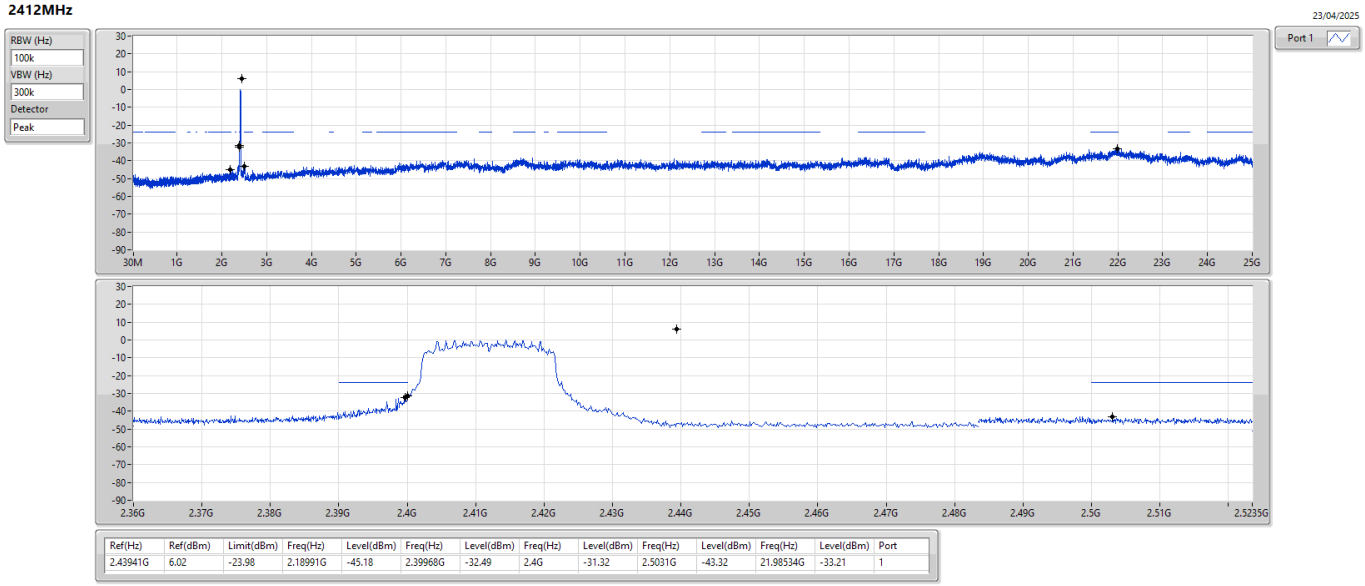


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43941G	6.18	-23.82	1.87886G	-56.77	2.39984G	-32.63	2.4G	-32.40	2.50534G	-52.54	21.9741G	-43.21	1

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

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
2.43941G	6.02	-23.98	2.18991G	-45.18	2.39968G	-32.49	2.4G	-31.32	2.5031G	-43.32	21.98534G	-33.21	1

Summary

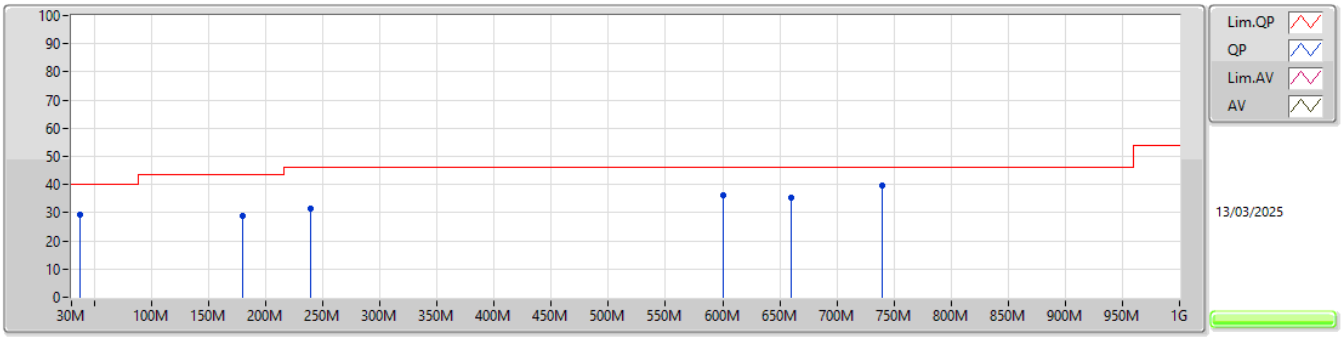
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	PK	740.04M	39.64	46.00	-6.36	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2437MHz_Fixture	Pass	PK	37.76M	29.29	40.00	-10.71	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	179.38M	28.89	43.50	-14.61	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	239.52M	31.33	46.00	-14.67	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	600.36M	36.28	46.00	-9.72	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	660.5M	35.36	46.00	-10.64	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	740.04M	39.64	46.00	-6.36	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	239.52M	38.63	46.00	-7.37	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	299.66M	35.31	46.00	-10.69	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	419.94M	37.54	46.00	-8.46	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	600.36M	37.89	46.00	-8.11	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	660.5M	34.44	46.00	-11.56	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	740.04M	38.05	46.00	-7.95	3	Horizontal	0	1.00

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

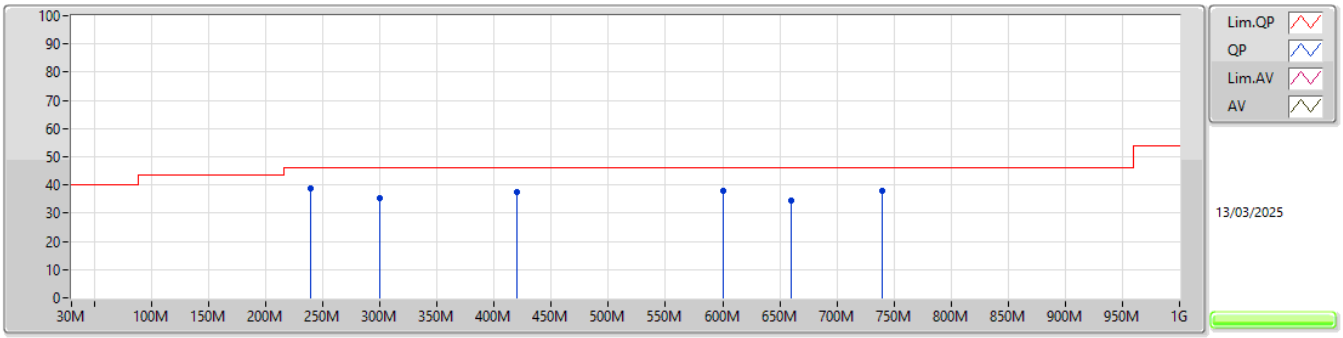
2437MHz_Fixture



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	37.76M	29.29	40.00	-10.71	-23.11	3	Vertical	360	1.00	52.40	20.86	0.44	44.41
PK	179.38M	28.89	43.50	-14.61	-28.28	3	Vertical	360	1.00	57.17	15.21	1.03	44.52
PK	239.52M	31.33	46.00	-14.67	-25.93	3	Vertical	360	1.00	57.26	17.32	1.14	44.39
PK	600.36M	36.28	46.00	-9.72	-16.12	3	Vertical	360	1.00	52.40	26.05	1.69	43.86
PK	660.5M	35.36	46.00	-10.64	-15.70	3	Vertical	360	1.00	51.06	26.34	1.82	43.86
PK	740.04M	39.64	46.00	-6.36	-13.54	3	Vertical	360	1.00	53.18	28.25	2.00	43.79

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

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	239.52M	38.63	46.00	-7.37	-25.93	3	Horizontal	0	1.00	64.56	17.32	1.14	44.39
PK	299.66M	35.31	46.00	-10.69	-23.77	3	Horizontal	0	1.00	59.08	19.29	1.20	44.26
PK	419.94M	37.54	46.00	-8.46	-19.73	3	Horizontal	0	1.00	57.27	22.79	1.47	43.99
PK	600.36M	37.89	46.00	-8.11	-16.12	3	Horizontal	0	1.00	54.01	26.05	1.69	43.86
PK	660.5M	34.44	46.00	-11.56	-15.70	3	Horizontal	0	1.00	50.14	26.34	1.82	43.86
PK	740.04M	38.05	46.00	-7.95	-13.54	3	Horizontal	0	1.00	51.59	28.25	2.00	43.79

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)_1TX	Pass	AV	4.924G	53.81	54.00	-0.19	3	Vertical	317	1.00
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.3892G	53.61	54.00	-0.39	3	Horizontal	109	1.00
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	53.67	54.00	-0.33	3	Horizontal	95	1.01

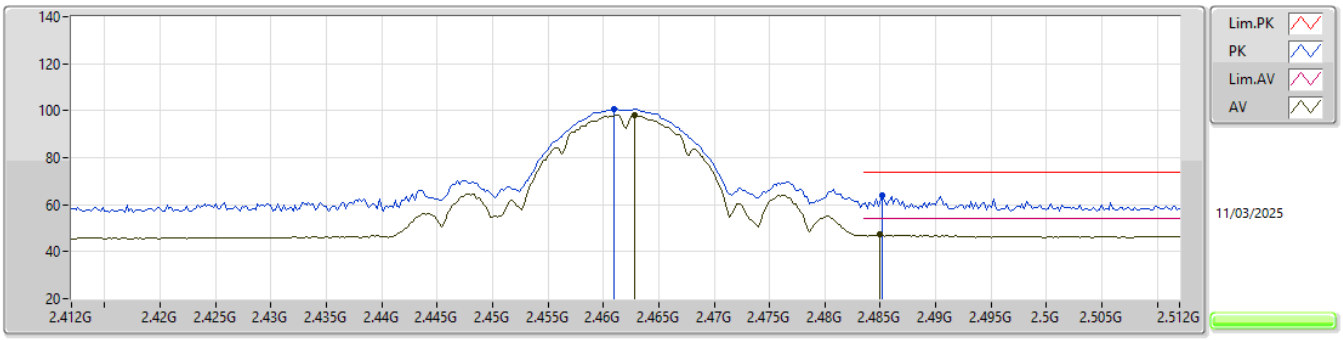
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3826G	49.29	54.00	-4.71	3	Horizontal	95	1.01
2412MHz	Pass	AV	2.4112G	104.39	Inf	-Inf	3	Horizontal	95	1.01
2412MHz	Pass	PK	2.3848G	64.65	74.00	-9.35	3	Horizontal	95	1.01
2412MHz	Pass	PK	2.4112G	106.98	Inf	-Inf	3	Horizontal	95	1.01
2412MHz	Pass	AV	4.824G	51.55	54.00	-2.45	3	Vertical	316	1.00
2412MHz	Pass	PK	4.82388G	53.59	74.00	-20.41	3	Vertical	316	1.00
2412MHz	Pass	AV	4.82396G	48.87	54.00	-5.13	3	Horizontal	338	1.00
2412MHz	Pass	PK	4.82396G	51.89	74.00	-22.11	3	Horizontal	338	1.00
2417MHz	Pass	AV	2.3878G	48.65	54.00	-5.35	3	Horizontal	96	1.00
2417MHz	Pass	AV	2.4162G	103.81	Inf	-Inf	3	Horizontal	96	1.00
2417MHz	Pass	PK	2.3892G	64.95	74.00	-9.05	3	Horizontal	96	1.00
2417MHz	Pass	PK	2.4162G	106.38	Inf	-Inf	3	Horizontal	96	1.00
2417MHz	Pass	AV	4.834G	51.87	54.00	-2.13	3	Vertical	316	1.00
2417MHz	Pass	PK	4.834G	54.00	74.00	-20.00	3	Vertical	316	1.00
2417MHz	Pass	AV	4.834G	49.90	54.00	-4.10	3	Horizontal	339	1.00
2417MHz	Pass	PK	4.83394G	52.55	74.00	-21.45	3	Horizontal	339	1.00
2437MHz	Pass	AV	2.389G	46.07	54.00	-7.93	3	Horizontal	257	1.12
2437MHz	Pass	AV	2.4362G	101.44	Inf	-Inf	3	Horizontal	257	1.12
2437MHz	Pass	AV	2.4974G	46.72	54.00	-7.28	3	Horizontal	257	1.12
2437MHz	Pass	PK	2.387G	60.11	74.00	-13.89	3	Horizontal	257	1.12
2437MHz	Pass	PK	2.4362G	104.06	Inf	-Inf	3	Horizontal	257	1.12
2437MHz	Pass	PK	2.4962G	60.12	74.00	-13.88	3	Horizontal	257	1.12
2437MHz	Pass	AV	4.874G	53.59	54.00	-0.41	3	Vertical	315	1.00
2437MHz	Pass	PK	4.87404G	55.31	74.00	-18.69	3	Vertical	315	1.00
2437MHz	Pass	AV	4.87396G	50.43	54.00	-3.57	3	Horizontal	332	1.01
2437MHz	Pass	PK	4.87408G	52.95	74.00	-21.05	3	Horizontal	332	1.01
2457MHz	Pass	AV	2.4578G	100.37	Inf	-Inf	3	Horizontal	95	1.04
2457MHz	Pass	AV	2.4844G	47.09	54.00	-6.91	3	Horizontal	95	1.04
2457MHz	Pass	PK	2.4562G	103.04	Inf	-Inf	3	Horizontal	95	1.04
2457MHz	Pass	PK	2.485G	62.82	74.00	-11.18	3	Horizontal	95	1.04
2457MHz	Pass	AV	4.91396G	53.73	54.00	-0.27	3	Vertical	315	1.00
2457MHz	Pass	PK	4.91392G	55.62	74.00	-18.38	3	Vertical	315	1.00
2457MHz	Pass	AV	4.91396G	51.58	54.00	-2.42	3	Horizontal	332	1.00
2457MHz	Pass	PK	4.91408G	53.78	74.00	-20.22	3	Horizontal	332	1.00
2462MHz	Pass	AV	2.4628G	98.02	Inf	-Inf	3	Horizontal	97	1.02
2462MHz	Pass	AV	2.485G	47.26	54.00	-6.74	3	Horizontal	97	1.02
2462MHz	Pass	PK	2.461G	100.76	Inf	-Inf	3	Horizontal	97	1.02
2462MHz	Pass	PK	2.4852G	64.15	74.00	-9.85	3	Horizontal	97	1.02
2462MHz	Pass	AV	4.924G	53.81	54.00	-0.19	3	Vertical	317	1.00
2462MHz	Pass	PK	4.92392G	55.83	74.00	-18.17	3	Vertical	317	1.00
2462MHz	Pass	AV	4.924G	51.39	54.00	-2.61	3	Horizontal	334	1.00
2462MHz	Pass	PK	4.924G	53.94	74.00	-20.06	3	Horizontal	334	1.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3892G	53.61	54.00	-0.39	3	Horizontal	109	1.00
2412MHz	Pass	AV	2.4136G	99.10	Inf	-Inf	3	Horizontal	109	1.00
2412MHz	Pass	PK	2.388G	66.92	74.00	-7.08	3	Horizontal	109	1.00
2412MHz	Pass	PK	2.4132G	107.89	Inf	-Inf	3	Horizontal	109	1.00
2412MHz	Pass	AV	4.82628G	38.31	54.00	-15.69	3	Vertical	316	1.00
2412MHz	Pass	PK	4.8255G	49.42	74.00	-24.58	3	Vertical	316	1.00
2412MHz	Pass	AV	4.82442G	36.67	54.00	-17.33	3	Horizontal	337	1.00
2412MHz	Pass	PK	4.8252G	48.44	74.00	-25.56	3	Horizontal	337	1.00
2417MHz	Pass	AV	2.39G	53.03	54.00	-0.97	3	Horizontal	93	1.00
2417MHz	Pass	AV	2.416G	99.65	Inf	-Inf	3	Horizontal	93	1.00
2417MHz	Pass	PK	2.388G	68.25	74.00	-5.75	3	Horizontal	93	1.00
2417MHz	Pass	PK	2.4182G	109.05	Inf	-Inf	3	Horizontal	93	1.00
2437MHz	Pass	AV	2.389G	48.28	54.00	-5.72	3	Horizontal	195	2.76
2437MHz	Pass	AV	2.4358G	100.90	Inf	-Inf	3	Horizontal	195	2.76
2437MHz	Pass	AV	2.4874G	48.40	54.00	-5.60	3	Horizontal	195	2.76
2437MHz	Pass	PK	2.3886G	61.03	74.00	-12.97	3	Horizontal	195	2.76
2437MHz	Pass	PK	2.4342G	110.33	Inf	-Inf	3	Horizontal	195	2.76

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz	Pass	PK	2.4854G	59.72	74.00	-14.28	3	Horizontal	195	2.76
2437MHz	Pass	AV	4.87358G	41.72	54.00	-12.28	3	Vertical	316	1.00
2437MHz	Pass	PK	4.87712G	53.49	74.00	-20.51	3	Vertical	316	1.00
2437MHz	Pass	AV	4.87556G	39.37	54.00	-14.63	3	Horizontal	331	1.08
2437MHz	Pass	PK	4.87472G	50.85	74.00	-23.15	3	Horizontal	331	1.08
2457MHz	Pass	AV	2.4552G	99.98	Inf	-Inf	3	Horizontal	95	1.01
2457MHz	Pass	AV	2.4835G	53.31	54.00	-0.69	3	Horizontal	95	1.01
2457MHz	Pass	PK	2.4582G	109.49	Inf	-Inf	3	Horizontal	95	1.01
2457MHz	Pass	PK	2.4842G	67.35	74.00	-6.65	3	Horizontal	95	1.01
2462MHz	Pass	AV	2.4636G	98.01	Inf	-Inf	3	Horizontal	97	3.00
2462MHz	Pass	AV	2.4836G	52.24	54.00	-1.76	3	Horizontal	97	3.00
2462MHz	Pass	PK	2.4638G	106.80	Inf	-Inf	3	Horizontal	97	3.00
2462MHz	Pass	PK	2.4835G	68.96	74.00	-5.04	3	Horizontal	97	3.00
2462MHz	Pass	AV	4.92274G	42.58	54.00	-11.42	3	Vertical	317	1.00
2462MHz	Pass	PK	4.921G	54.29	74.00	-19.71	3	Vertical	317	1.00
2462MHz	Pass	AV	4.92298G	40.68	54.00	-13.32	3	Horizontal	332	1.00
2462MHz	Pass	PK	4.9198G	52.91	74.00	-21.09	3	Horizontal	332	1.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	53.59	54.00	-0.41	3	Horizontal	93	1.50
2412MHz	Pass	AV	2.4128G	94.84	Inf	-Inf	3	Horizontal	93	1.50
2412MHz	Pass	PK	2.3824G	65.06	74.00	-8.94	3	Horizontal	93	1.50
2412MHz	Pass	PK	2.4134G	107.22	Inf	-Inf	3	Horizontal	93	1.50
2412MHz	Pass	AV	4.82808G	37.14	54.00	-16.86	3	Vertical	314	1.10
2412MHz	Pass	PK	4.8273G	47.59	74.00	-26.41	3	Vertical	314	1.10
2412MHz	Pass	AV	4.82574G	35.85	54.00	-18.15	3	Horizontal	339	1.18
2412MHz	Pass	PK	4.82412G	46.38	74.00	-27.62	3	Horizontal	339	1.18
2417MHz	Pass	AV	2.3896G	53.37	54.00	-0.63	3	Horizontal	94	1.00
2417MHz	Pass	AV	2.4158G	96.65	Inf	-Inf	3	Horizontal	94	1.00
2417MHz	Pass	PK	2.3868G	69.87	74.00	-4.13	3	Horizontal	94	1.00
2417MHz	Pass	PK	2.4158G	109.04	Inf	-Inf	3	Horizontal	94	1.00
2437MHz	Pass	AV	2.389G	51.08	54.00	-2.92	3	Horizontal	194	2.77
2437MHz	Pass	AV	2.4362G	101.10	Inf	-Inf	3	Horizontal	194	2.77
2437MHz	Pass	AV	2.4838G	49.94	54.00	-4.06	3	Horizontal	194	2.77
2437MHz	Pass	PK	2.3894G	65.75	74.00	-8.25	3	Horizontal	194	2.77
2437MHz	Pass	PK	2.4354G	111.85	Inf	-Inf	3	Horizontal	194	2.77
2437MHz	Pass	PK	2.4835G	63.29	74.00	-10.71	3	Horizontal	194	2.77
2437MHz	Pass	AV	4.87592G	43.89	54.00	-10.11	3	Vertical	316	1.00
2437MHz	Pass	PK	4.87118G	53.92	74.00	-20.08	3	Vertical	316	1.00
2437MHz	Pass	AV	4.87622G	40.59	54.00	-13.41	3	Horizontal	335	1.01
2437MHz	Pass	PK	4.88084G	50.69	74.00	-23.31	3	Horizontal	335	1.01
2457MHz	Pass	AV	2.4556G	98.24	Inf	-Inf	3	Horizontal	95	1.01
2457MHz	Pass	AV	2.4835G	53.67	54.00	-0.33	3	Horizontal	95	1.01
2457MHz	Pass	PK	2.4548G	109.10	Inf	-Inf	3	Horizontal	95	1.01
2457MHz	Pass	PK	2.485G	67.44	74.00	-6.56	3	Horizontal	95	1.01
2462MHz	Pass	AV	2.4592G	94.84	Inf	-Inf	3	Horizontal	98	1.09
2462MHz	Pass	AV	2.4835G	52.87	54.00	-1.13	3	Horizontal	98	1.09
2462MHz	Pass	PK	2.464G	106.35	Inf	-Inf	3	Horizontal	98	1.09
2462MHz	Pass	PK	2.4854G	67.62	74.00	-6.38	3	Horizontal	98	1.09
2462MHz	Pass	AV	4.92418G	42.93	54.00	-11.07	3	Vertical	317	1.00
2462MHz	Pass	PK	4.93012G	52.37	74.00	-21.63	3	Vertical	317	1.00
2462MHz	Pass	AV	4.92208G	40.07	54.00	-13.93	3	Horizontal	331	1.00
2462MHz	Pass	PK	4.9219G	50.45	74.00	-23.55	3	Horizontal	331	1.00

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

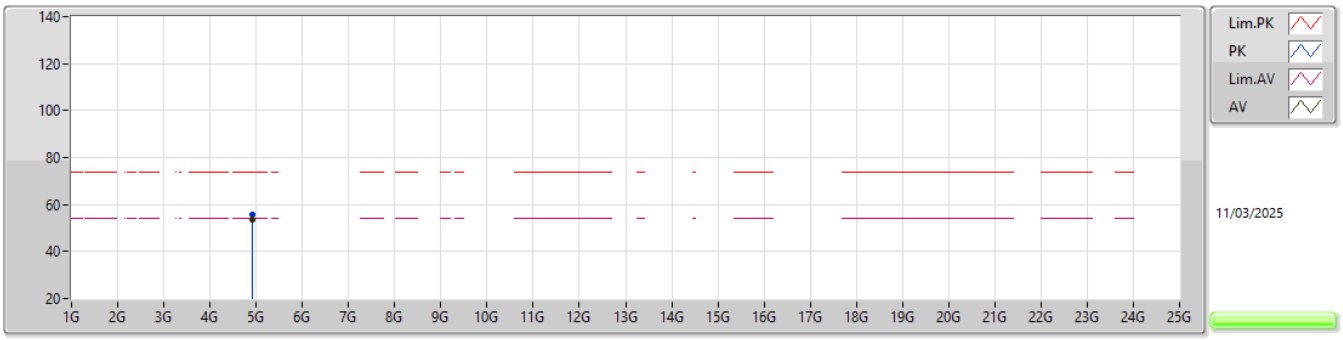
2462MHz_TX



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	2.4628G	98.02	Inf	-Inf	32.55	3	Horizontal	97	1.02	65.47	27.73	4.82	-
AV	2.485G	47.26	54.00	-6.74	32.82	3	Horizontal	97	1.02	14.44	27.95	4.87	-
PK	2.461G	100.76	Inf	-Inf	32.52	3	Horizontal	97	1.02	68.24	27.71	4.81	-
PK	2.4852G	64.15	74.00	-9.85	32.82	3	Horizontal	97	1.02	31.33	27.95	4.87	-

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

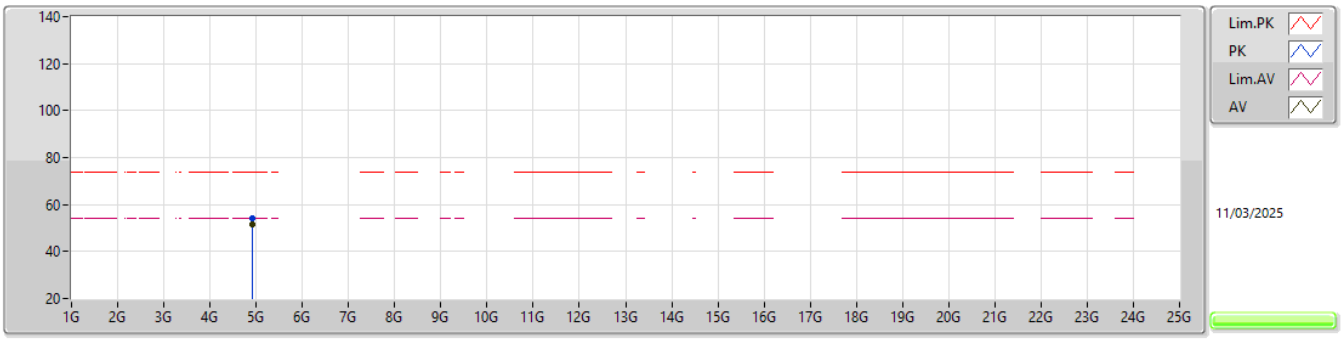
2462MHz_TX



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	4.924G	53.81	54.00	-0.19	-4.51	3	Vertical	317	1.00	58.32	33.09	6.44	44.04
PK	4.92392G	55.83	74.00	-18.17	-4.51	3	Vertical	317	1.00	60.34	33.09	6.44	44.04

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

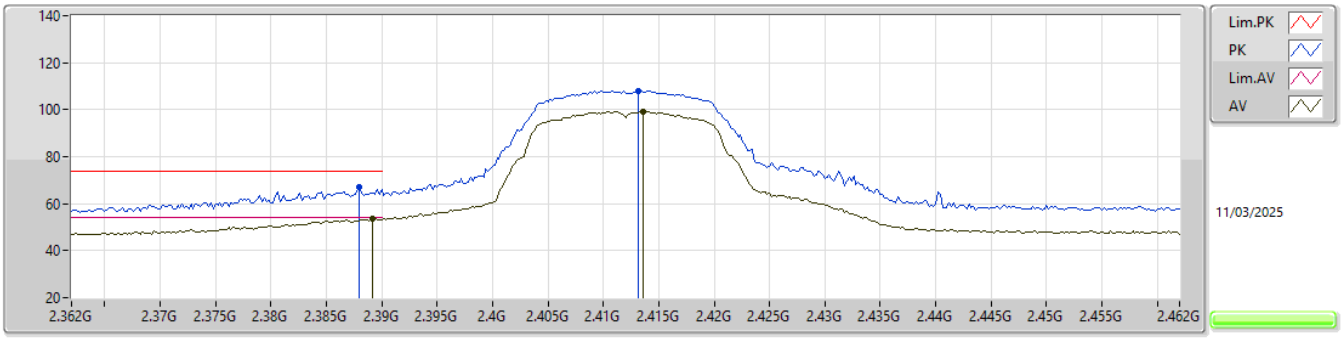
2462MHz_TX



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	4.924G	51.39	54.00	-2.61	-4.51	3	Horizontal	334	1.00	55.90	33.09	6.44	44.04
PK	4.924G	53.94	74.00	-20.06	-4.51	3	Horizontal	334	1.00	58.45	33.09	6.44	44.04

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

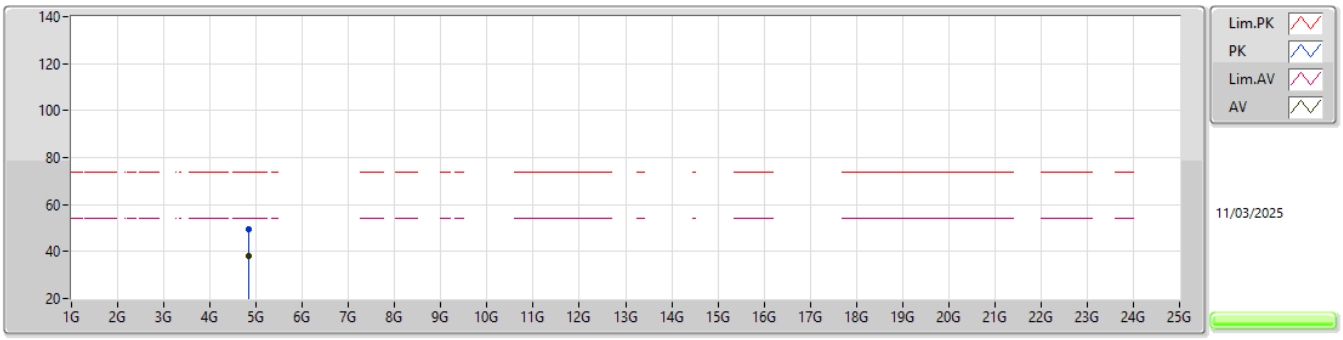
2412MHz_TX



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	53.61	54.00	-0.39	32.07	3	Horizontal	109	1.00	21.54	27.39	4.68	-
AV	2.4136G	99.10	Inf	-Inf	32.26	3	Horizontal	109	1.00	66.84	27.56	4.70	-
PK	2.388G	66.92	74.00	-7.08	32.06	3	Horizontal	109	1.00	34.86	27.38	4.68	-
PK	2.4132G	107.89	Inf	-Inf	32.27	3	Horizontal	109	1.00	75.62	27.57	4.70	-

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

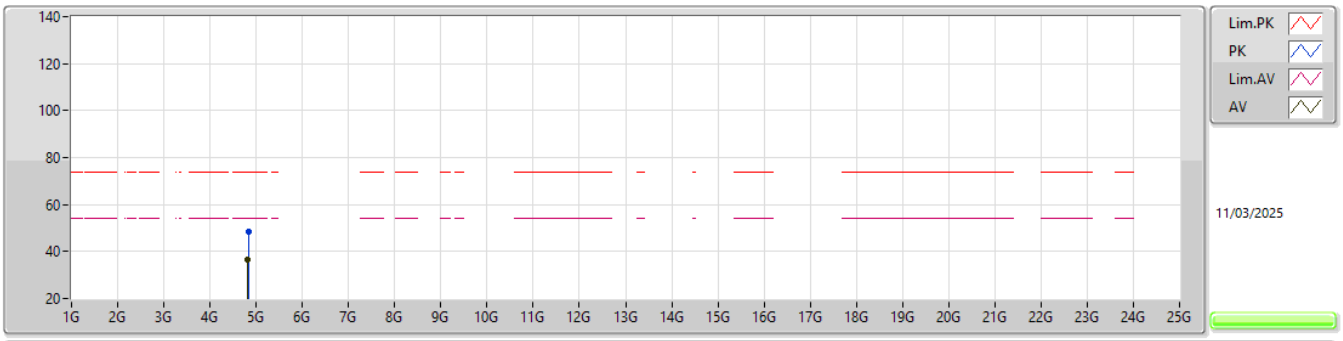
2412MHz_TX



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	4.82628G	38.31	54.00	-15.69	-5.13	3	Vertical	316	1.00	43.44	32.61	6.32	44.06
PK	4.8255G	49.42	74.00	-24.58	-5.14	3	Vertical	316	1.00	54.56	32.60	6.32	44.06

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

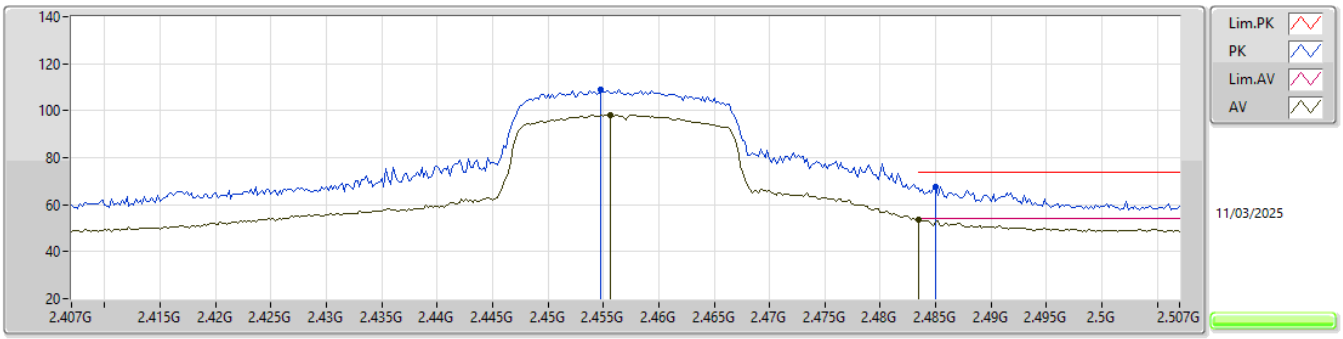
2412MHz_TX



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	4.82442G	36.67	54.00	-17.33	-5.14	3	Horizontal	337	1.00	41.81	32.60	6.32	44.06
PK	4.8252G	48.44	74.00	-25.56	-5.14	3	Horizontal	337	1.00	53.58	32.60	6.32	44.06

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

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	2.4556G	98.24	Inf	-Inf	32.50	3	Horizontal	95	1.01	65.74	27.70	4.80	-
AV	2.4835G	53.67	54.00	-0.33	32.81	3	Horizontal	95	1.01	20.86	27.94	4.87	-
PK	2.4548G	109.10	Inf	-Inf	32.50	3	Horizontal	95	1.01	76.60	27.70	4.80	-
PK	2.485G	67.44	74.00	-6.56	32.82	3	Horizontal	95	1.01	34.62	27.95	4.87	-