

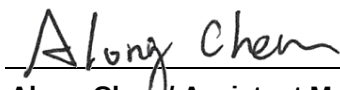
FCC Test Report

FCC ID : IPH-05047
Equipment : Meter/IVI
Model No. : HAWW
Brand Name : GARMIN
Applicant : Garmin International, Inc.
Address : 1200 E. 151st Street Olathe, KS 66062 United States
Standard : 47 CFR FCC Part 15.407
Received Date : Feb. 12, 2025
Tested Date : Feb. 14 ~ Oct. 23, 2025

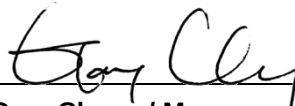
We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR521201AN	Rev. 01	Initial issue	Nov. 27, 2025

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	Note ¹	N/A
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 60MHz 36.59 (Margin -3.41dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	Conducted Output Power	Max Power [dBm]: 5150~5250MHz: 10.61 5725~5850MHz: 9.41	Pass
15.407(a)	Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass
N/A means Not Applicable. Note ¹ : The EUT consumes DC power from battery, so the test is not required.			

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:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5150-5250 5725-5850	a	5180-5240 5745-5825	36-48 [4] 149-165 [5]	1	6-54 Mbps
5150-5250 5725-5850	n (HT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	1	MCS 0-7
5150-5250 5725-5850	ac (VHT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	1	MCS 0-9
5150-5250 5725-5850	ax (HE20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	1	MCS 0-11
Note: OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.					

1.1.2 Antenna Details

Brand	Model	Type	Connector	Gain (dBi)		
				2400~2483.5MHz	5150~5250MHz	5725~5850MHz
INPAQ	700-00228-10	PCB	IPEX	3.96	2.19	1.95

1.1.3 Configuration of Equipment under Test (EUT)

Power Supply Type	DC 12V
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1.1.4 Accessories

N/A

1.1.5 Channel List

Channel	Frequency(MHz)
36	5180
40	5200
44	5220
48	5240
149	5745
153	5765
157	5785
161	5805
165	5825

1.1.6 Test Tool and Duty Cycle

Test Tool	Dut labtool, Version: 2.0.0.36.1		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	98.57%	0.06
	ax HE20	98.77%	0.05

1.1.7 Power Index of Test Tool

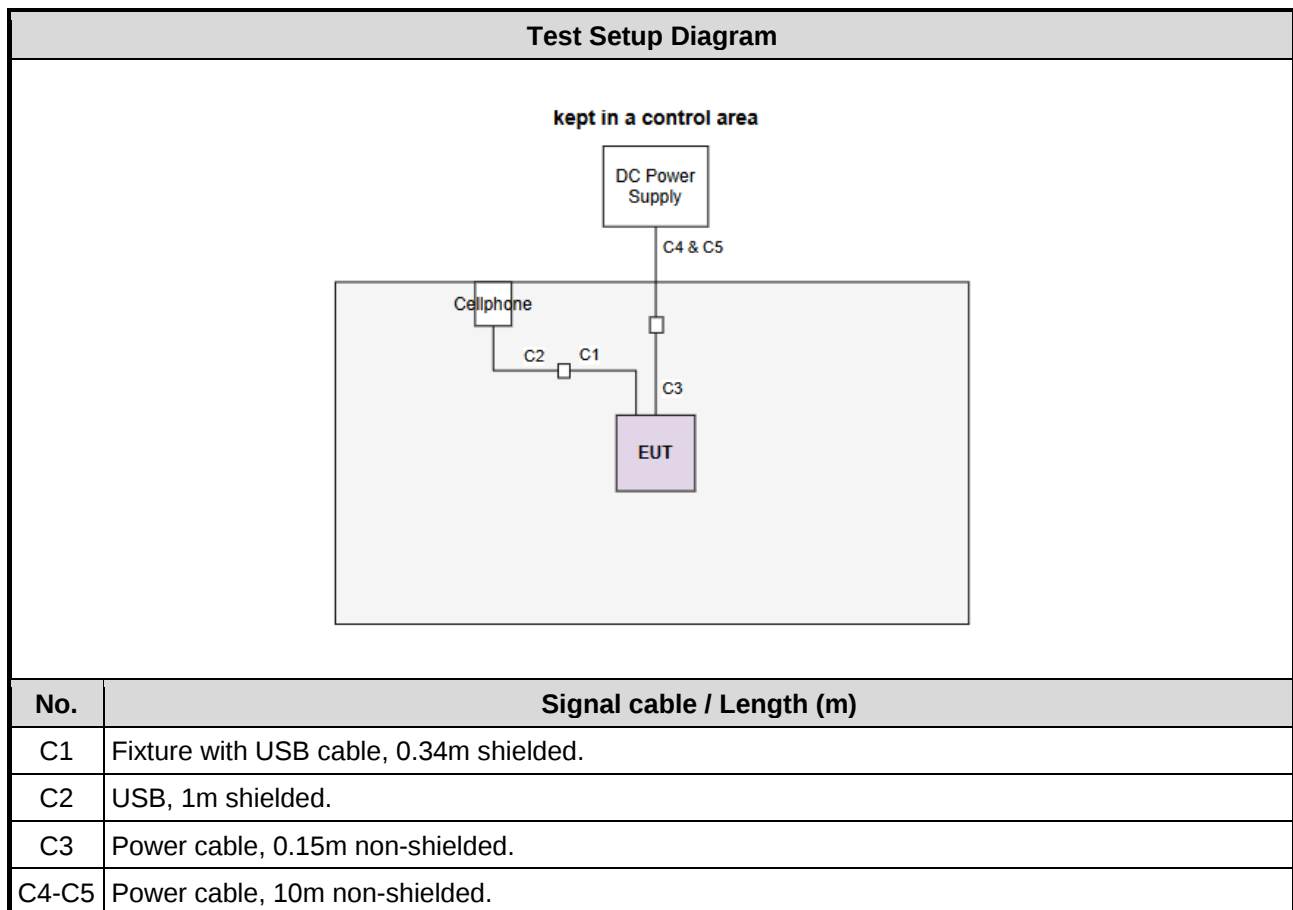
Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	10
11a	5220	10
11a	5240	10
11a	5745	8
11a	5785	8
11a	5825	8
ax HE20	5180	10
ax HE20	5220	10
ax HE20	5240	10
ax HE20	5745	8
ax HE20	5785	8
ax HE20	5825	8

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Cellphone	SAMSUNG	SM-A530F/DS	---	---
2	DC Power Supply	GWINSTEK	GPC-60300	---	---
3	Laptop	DELL	Latitude 3440	DoC	---
C1	Fixture with USB cable	GARMIN	HAWW_V2 HAWW_USB	---	Provided by applicant.
C2	Samsung USB cable	Samsung	EP-DA705BWE GWW	---	---
C3	Power cable	GARMIN	HAWW_20P	---	Provided by applicant.
C4	DC Cable	ICC	DCC-10m-R	---	---
C5	DC Cable	ICC	DCC-10m-B	---	---

Note: The support laptop was disconnected from the EUT and was removed from testing table after sending command to EUT to transmit continuously.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Feb. 14, 2025				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 05, 2024	Mar. 04, 2025
Spectrum Analyzer	R&S	FSV40	101499	Apr. 02, 2024	Apr. 01, 2025
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 05, 2024	Nov. 04, 2025
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jul. 02, 2024	Jul. 01, 2025
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 20, 2024	Dec. 19, 2025
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 18, 2024	Nov. 17, 2025
Preamplifier	EMC	EMC02325	980187	Jun. 27, 2024	Jun. 26, 2025
Preamplifier	EMC	EMC118A45SE	980897	Aug. 05, 2024	Aug. 04, 2025
Preamplifier	EMC	EMC184045SE	980903	Jul. 30, 2024	Jul. 29, 2025
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 02, 2024	Oct. 01, 2025
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 20, 2024	Sep. 19, 2025
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 20, 2024	Sep. 19, 2025
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 20, 2024	Sep. 19, 2025
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 20, 2024	Sep. 19, 2025
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 20, 2024	Sep. 19, 2025
Attenuator	Pasternack	PE7005-10	10-3	Sep. 20, 2024	Sep. 19, 2025
HIGHPASS FILTER	WI	WHK3.1-18G-10SS	43	Sep. 20, 2024	Sep. 19, 2025
Measurement Software	Sporton	SENSE-EMI	V5.11	NA	NA
Measurement Software	Sporton	SENSE-15247_DTS	V5.11	NA	NA

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

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Oct. 23, 2025				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2025	Apr. 17, 2026
Power Meter	Anritsu	ML2495A	1241002	Nov. 26, 2024	Nov. 25, 2025
Power Sensor	Anritsu	MA2411B	1207366	Nov. 26, 2024	Nov. 25, 2025
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Jun. 26, 2025	Jun. 25, 2026
DC POWER SOURCE	GW INSTRON	GPC-6030D	GES855395	Nov. 06, 2024	Nov. 05, 2025
Attenuator	Pasternack	PE7005-10	10-2	Oct. 03, 2025	Oct. 02, 2026
Measurement Software	Sporton	SENSE-15407_NII	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407

ANSI C63.10-2020

ANSI C63.4-2014 + C63.4a-2017

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.96 dB
Unwanted Emission > 1 GHz	± 4.51 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISSED#: 10807C
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

For Frequency band 5150-5250 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Unwanted Emissions ≤1GHz	ax HE20	5220	MCS 0	---
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth Power Spectral Density	11a ax HE20	5180 / 5220 / 5240 5180 / 5220 / 5240	6 Mbps MCS 0	---
Frequency Stability	Un-modulation	5200	---	---
For Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth Power Spectral Density	11a ax HE20	5745 / 5785 / 5825 5745 / 5785 / 5825	6 Mbps MCS 0	---
Frequency Stability	Un-modulation	5785	---	---

3 Transmitter Test Results

3.1 Emission Bandwidth

3.1.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.1.2 Test Procedures

26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

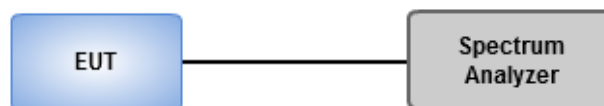
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW $\geq$ 3 RBW.
3. Sample detection and single sweep mode shall be used.
4. Use the 99 % power bandwidth function of the instrument.

6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz.
2. Detector = Peak, Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	24°C / 62%	Tested By	Roger Lu
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Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
☒	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☐	Client devices	Conducted Power: 250 mW

Frequency Band (MHz)	Limit
☒ 5725 ~ 5850	Conducted Power: 1 W
Note: "B" is the 26dB emission bandwidth in MHz.	

3.2.2 Test Procedures

Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	24°C / 62%	Tested By	Roger Lu
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Refer to Appendix B.

3.3 Power Spectral Density

3.3.1 Limit of Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	17 dBm / MHz
☒	Indoor access point	17 dBm / MHz
☐	Fixed point-to-point access points	17 dBm / MHz
☐	Client devices	11 dBm / MHz

Frequency Band (MHz)		Limit
☒	5725 ~ 5850	30 dBm /500 kHz

3.3.2 Test Procedures

For 5150 ~ 5250 MHz

Duty cycle $\geq$ 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle < 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. Sweep time = auto
3. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

For 5725 ~ 5850 MHz

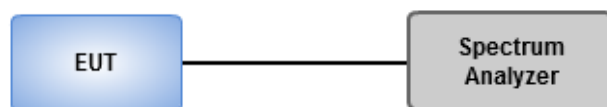
Duty cycle $\geq$ 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle < 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. Sweep time = auto
3. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	24°C / 62%	Tested By	Roger Lu
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Refer to Appendix C.

3.4 Unwanted Emissions

3.4.1 Limit of Unwanted Emissions

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:
Qusai-Peak value is measured for frequency below 1GHz except for 9~90 kHz, 110~490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note 1: 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).

3.4.2 Test Procedures

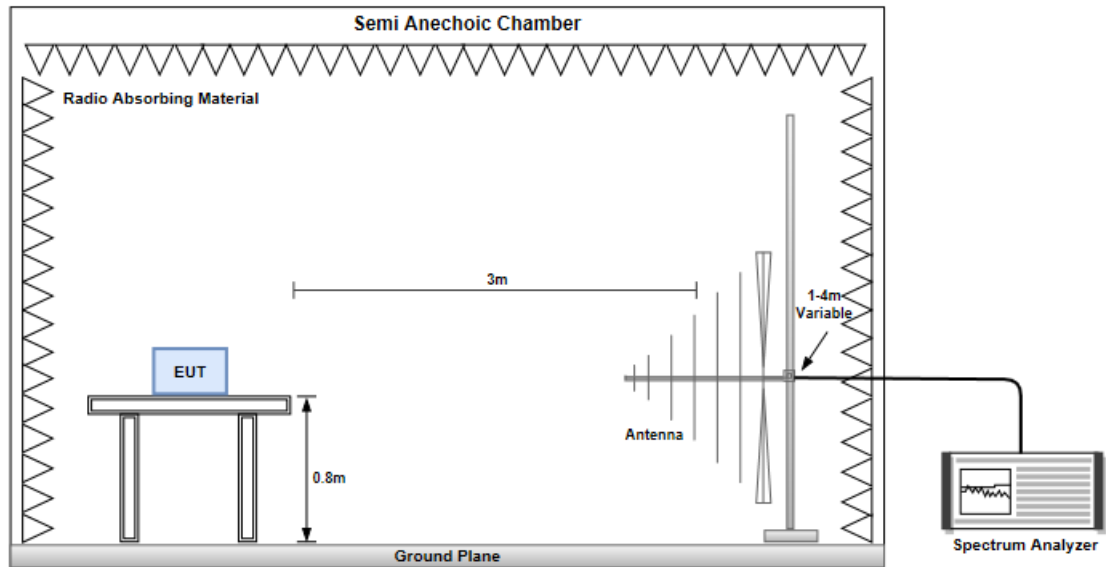
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

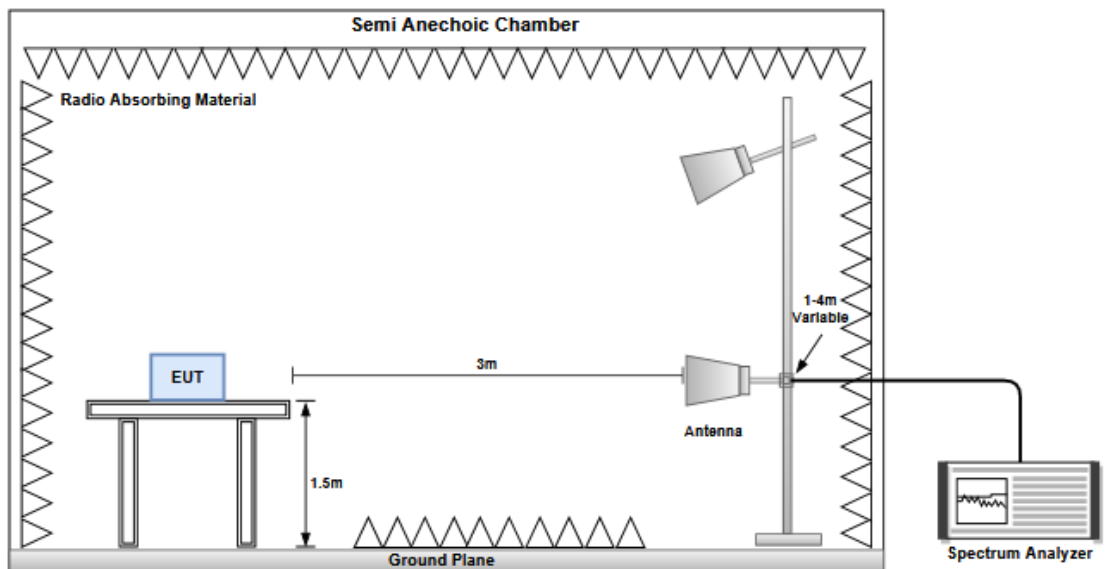
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.4.4 Test Results

Ambient Condition	21°C / 67%	Tested By	Sean Yu
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Refer to Appendix D.

3.5 Frequency Stability

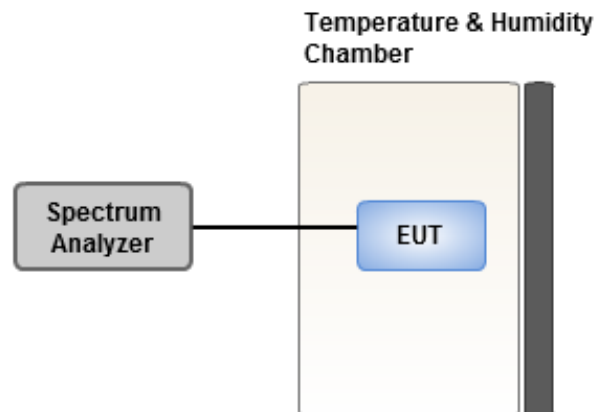
3.5.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.5.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	24°C / 62%	Tested By	Roger Lu
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Refer to Appendix E.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <https://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

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St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	19.602M	16.571M	16M6D1D	19.47M	16.571M
802.11ax HEW20_Nss1,(MCS0)_1TX	20.394M	18.771M	18M8D1D	20.262M	18.741M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.368M	16.624M	16M6D1D	16.368M	16.597M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.546M	18.771M	18M8D1D	18.15M	18.741M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Minimum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	19.536M	16.571M
5220MHz	Pass	Inf	19.602M	16.571M
5240MHz	Pass	Inf	19.47M	16.571M
5745MHz	Pass	500k	16.368M	16.597M
5785MHz	Pass	500k	16.368M	16.597M
5825MHz	Pass	500k	16.368M	16.624M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	20.262M	18.741M
5220MHz	Pass	Inf	20.262M	18.771M
5240MHz	Pass	Inf	20.394M	18.771M
5745MHz	Pass	500k	18.546M	18.741M
5785MHz	Pass	500k	18.15M	18.741M
5825MHz	Pass	500k	18.15M	18.771M

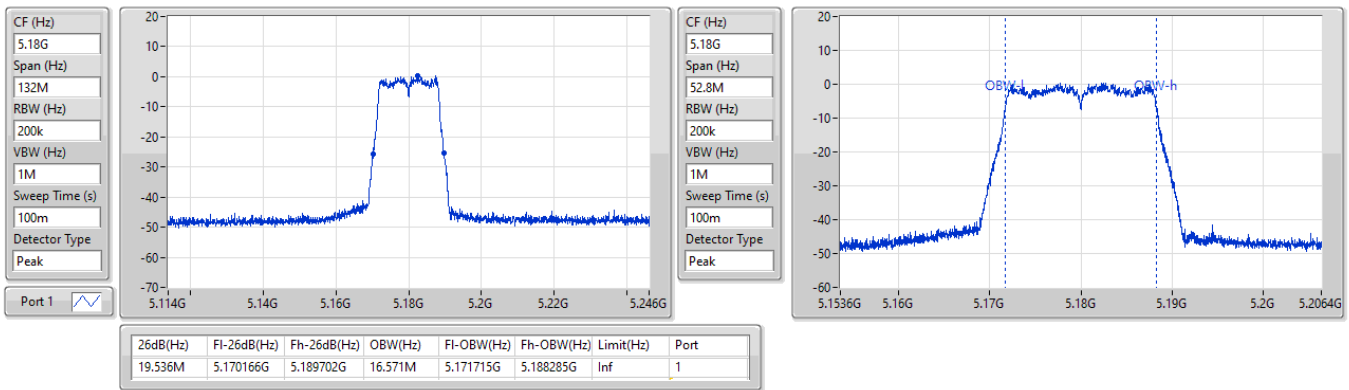
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

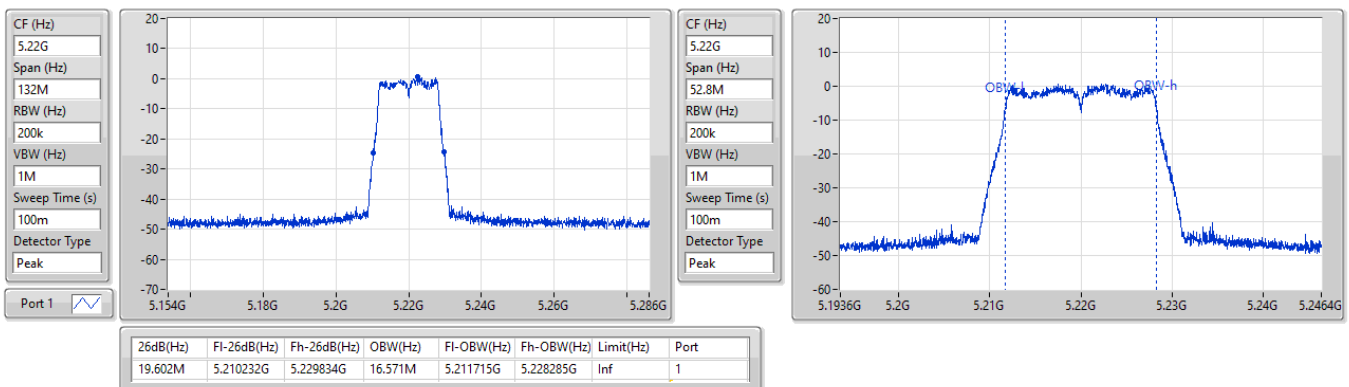
5180MHz



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

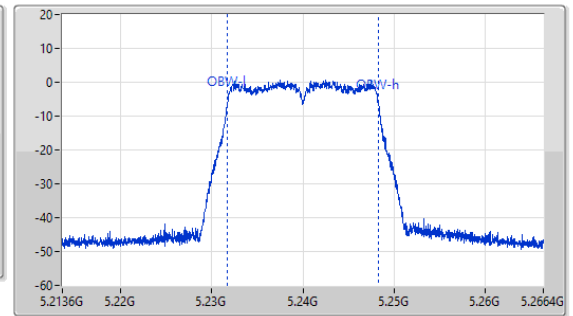
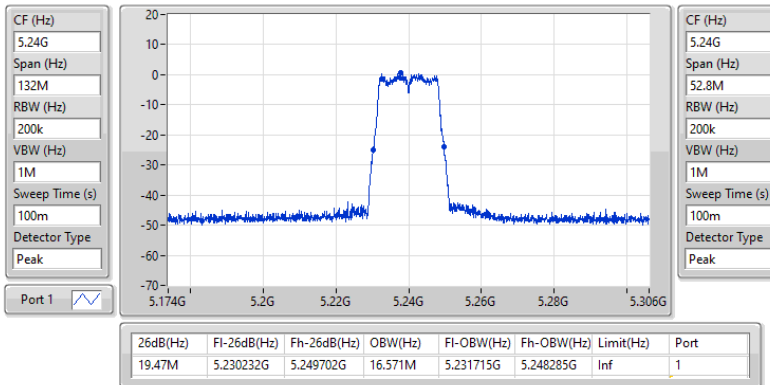
5220MHz



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

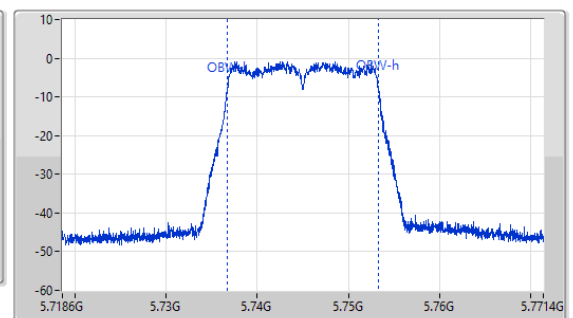
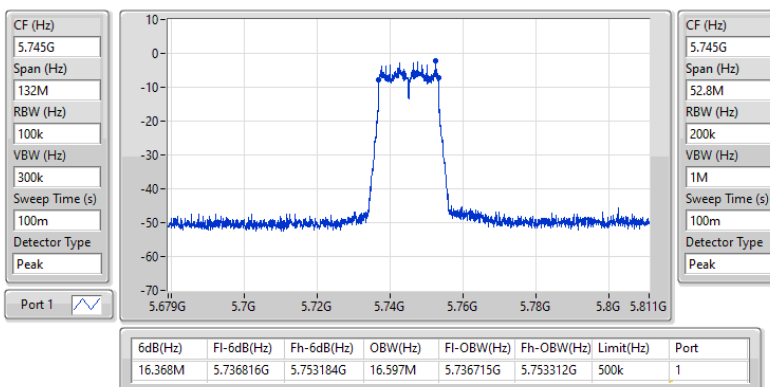
5240MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

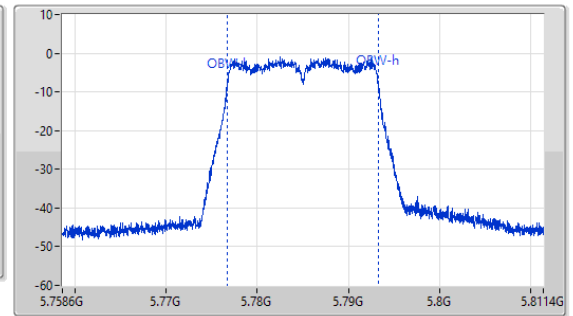
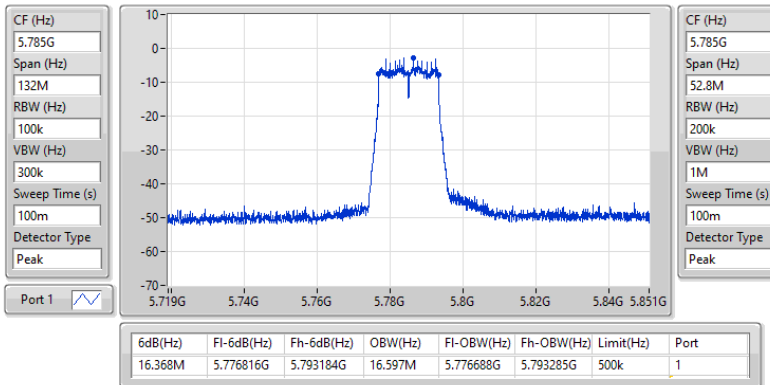
5745MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

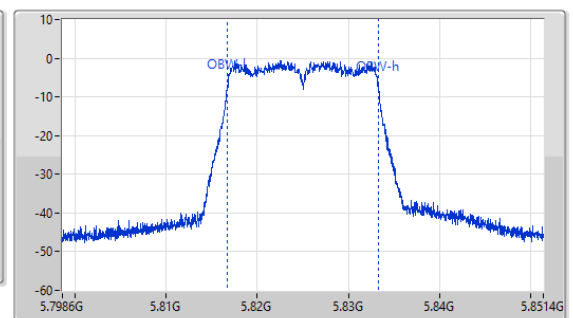
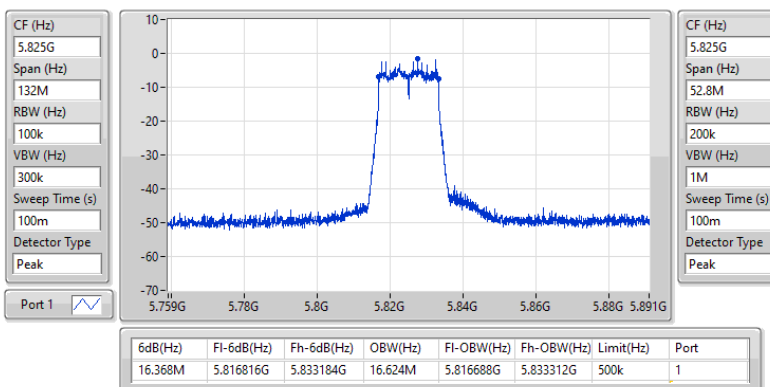
5785MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

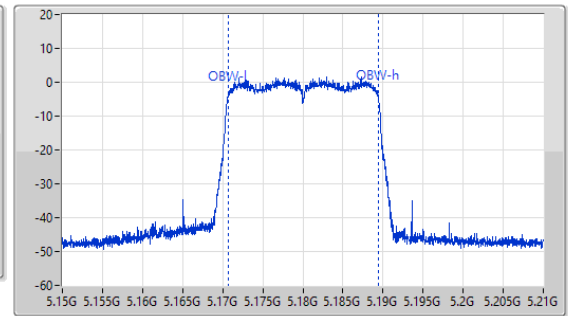
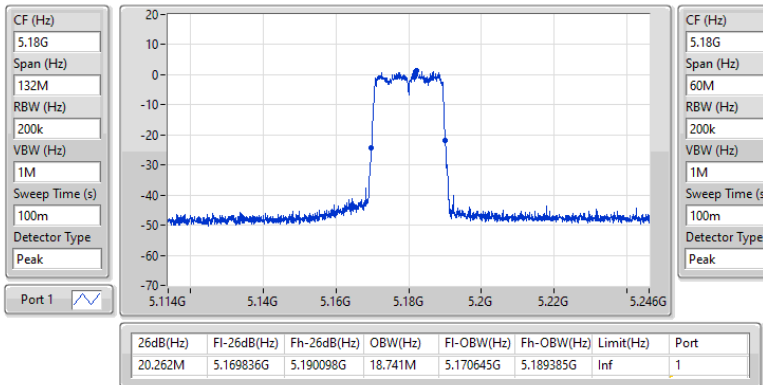
5825MHz



5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

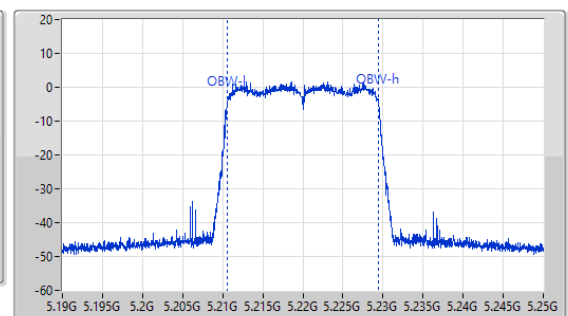
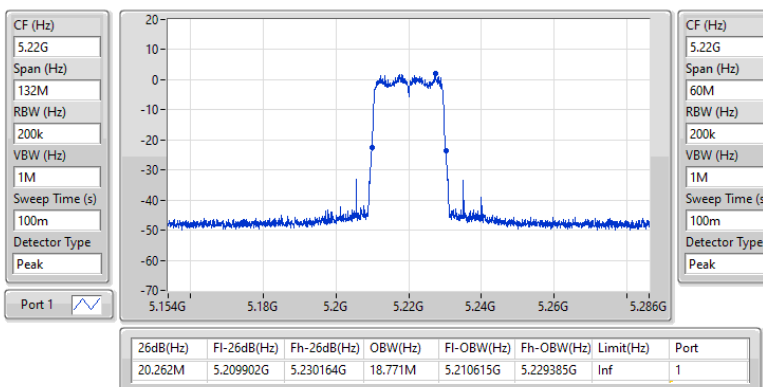
5180MHz



5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

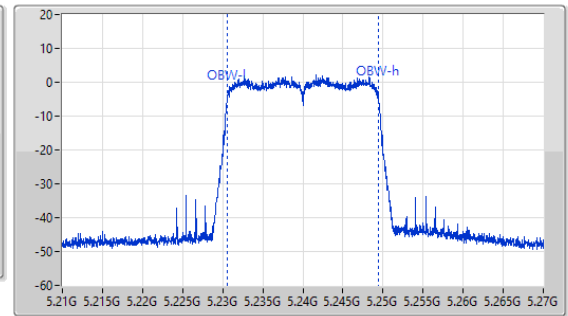
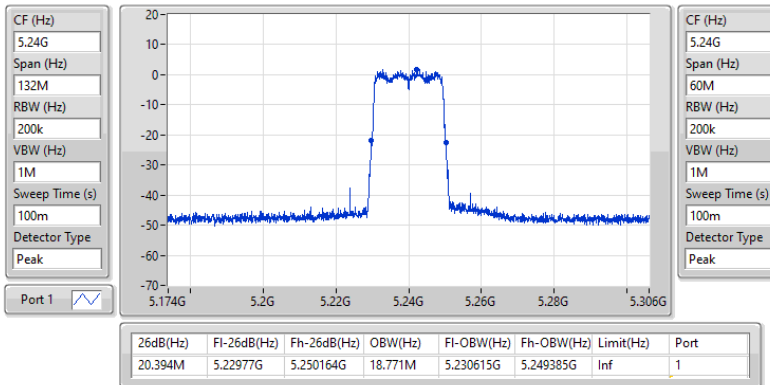
5220MHz



5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

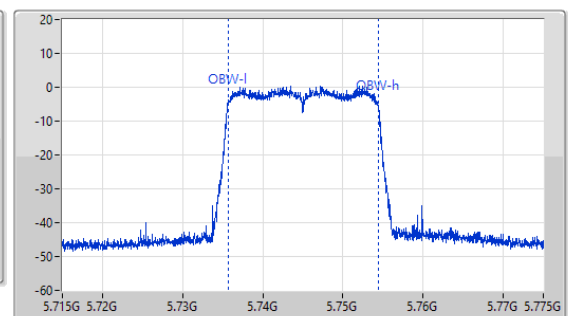
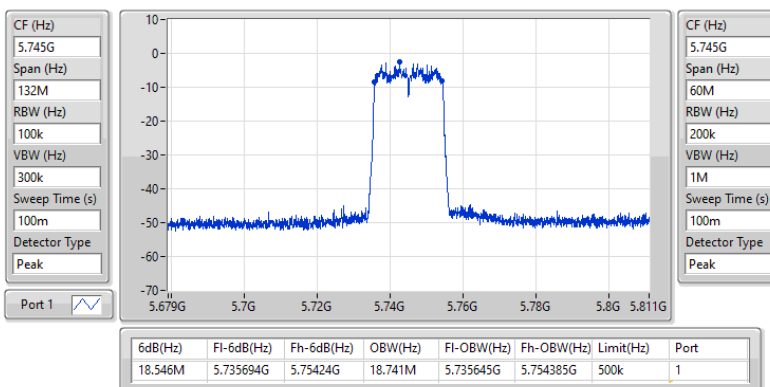
5240MHz



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5745MHz

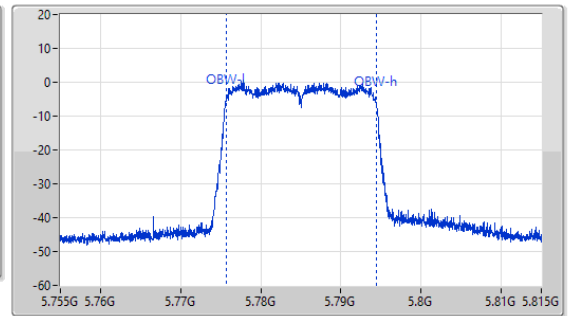
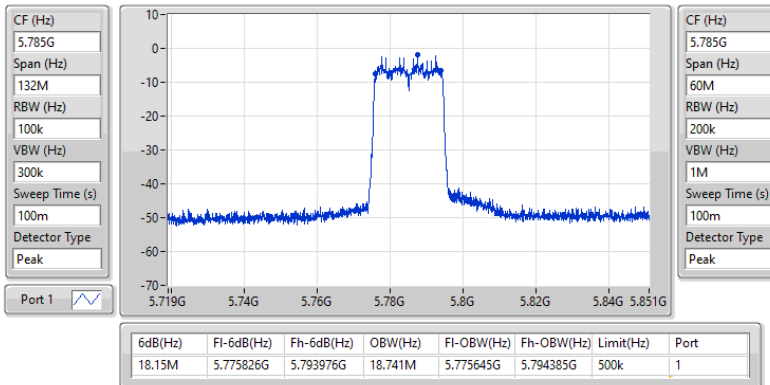




5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

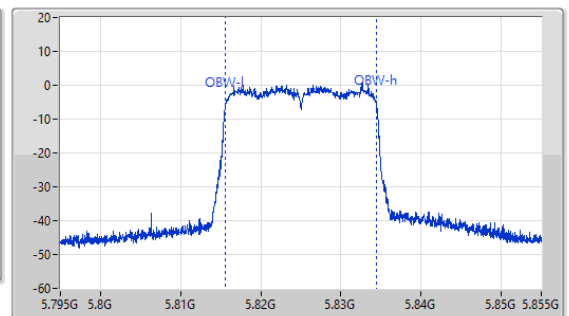
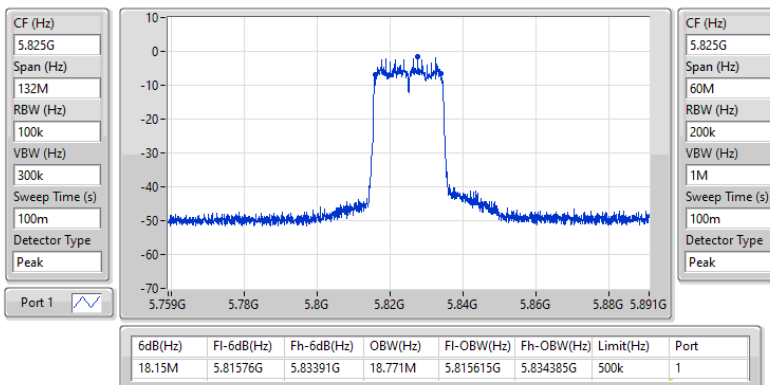
5785MHz



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5825MHz





Conducted Output Power(Average)

Appendix B

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	10.57	0.01140	12.76	0.01888
802.11ax HEW20_Nss1,(MCS0)_1TX	10.61	0.01151	12.80	0.01905
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	9.39	0.00869	11.34	0.01361
802.11ax HEW20_Nss1,(MCS0)_1TX	9.41	0.00873	11.36	0.01368

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	2.19	10.16	10.16	30.00	12.35	36.00
5220MHz	Pass	2.19	10.57	10.57	30.00	12.76	36.00
5240MHz	Pass	2.19	10.56	10.56	30.00	12.75	36.00
5745MHz	Pass	1.95	9.15	9.15	30.00	11.10	36.00
5785MHz	Pass	1.95	8.81	8.81	30.00	10.76	36.00
5825MHz	Pass	1.95	9.39	9.39	30.00	11.34	36.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	2.19	10.17	10.17	30.00	12.36	36.00
5220MHz	Pass	2.19	10.61	10.61	30.00	12.80	36.00
5240MHz	Pass	2.19	10.6	10.60	30.00	12.79	36.00
5745MHz	Pass	1.95	9.12	9.12	30.00	11.07	36.00
5785MHz	Pass	1.95	8.85	8.85	30.00	10.80	36.00
5825MHz	Pass	1.95	9.41	9.41	30.00	11.36	36.00

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



Mode	Result	Gain-Elevation 30° (dBi)	Total Power (dBm)	EIRP-Elevation 30° (dBm)	EIRP Limit- Elevation 30° (dBm)
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX_5180MHz	Pass	2.19	10.16	12.35	21.00
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX_5220MHz	Pass	2.19	10.57	12.76	21.00
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX_5240MHz	Pass	2.19	10.56	12.75	21.00
5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX_5180MHz	Pass	2.19	10.17	12.36	21.00
5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX_5220MHz	Pass	2.19	10.61	12.80	21.00
5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX_5240MHz	Pass	2.19	10.60	12.79	21.00

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	-1.79	0.40
802.11ax HEW20_Nss1,(MCS0)_1TX	-2.05	0.14
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	-4.44	-2.49
802.11ax HEW20_Nss1,(MCS0)_1TX	-4.71	-2.76

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	2.19	-2.12	-2.12	17.00	0.07	23.00
5220MHz	Pass	2.19	-1.87	-1.87	17.00	0.32	23.00
5240MHz	Pass	2.19	-1.79	-1.79	17.00	0.40	23.00
5745MHz	Pass	1.95	-4.68	-4.68	30.00	-2.73	36.00
5785MHz	Pass	1.95	-4.99	-4.99	30.00	-3.04	36.00
5825MHz	Pass	1.95	-4.44	-4.44	30.00	-2.49	36.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	2.19	-2.36	-2.36	17.00	-0.17	23.00
5220MHz	Pass	2.19	-2.08	-2.08	17.00	0.11	23.00
5240MHz	Pass	2.19	-2.05	-2.05	17.00	0.14	23.00
5745MHz	Pass	1.95	-4.91	-4.91	30.00	-2.96	36.00
5785MHz	Pass	1.95	-5.24	-5.24	30.00	-3.29	36.00
5825MHz	Pass	1.95	-4.71	-4.71	30.00	-2.76	36.00

DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

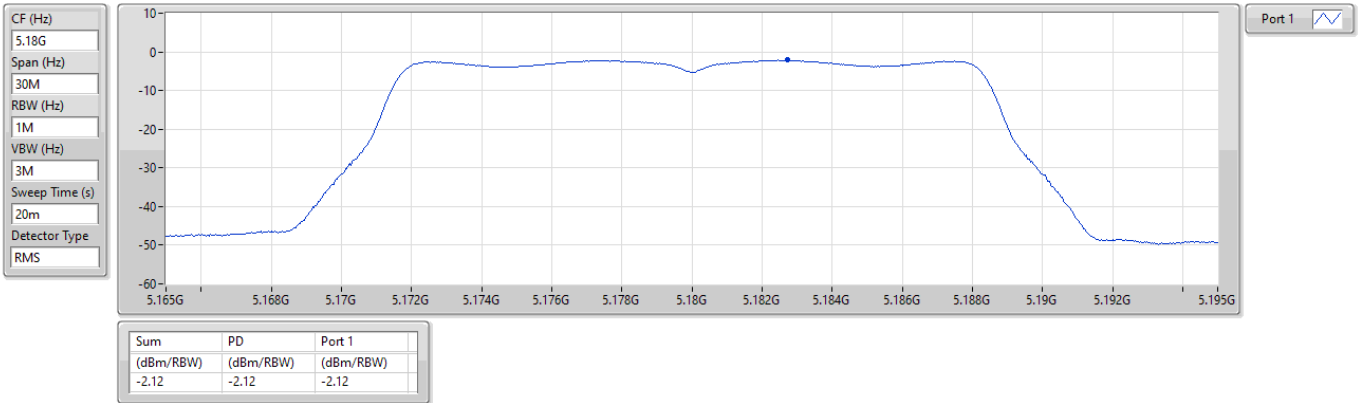
PD = Power density; Port X = Port X Power Density;



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

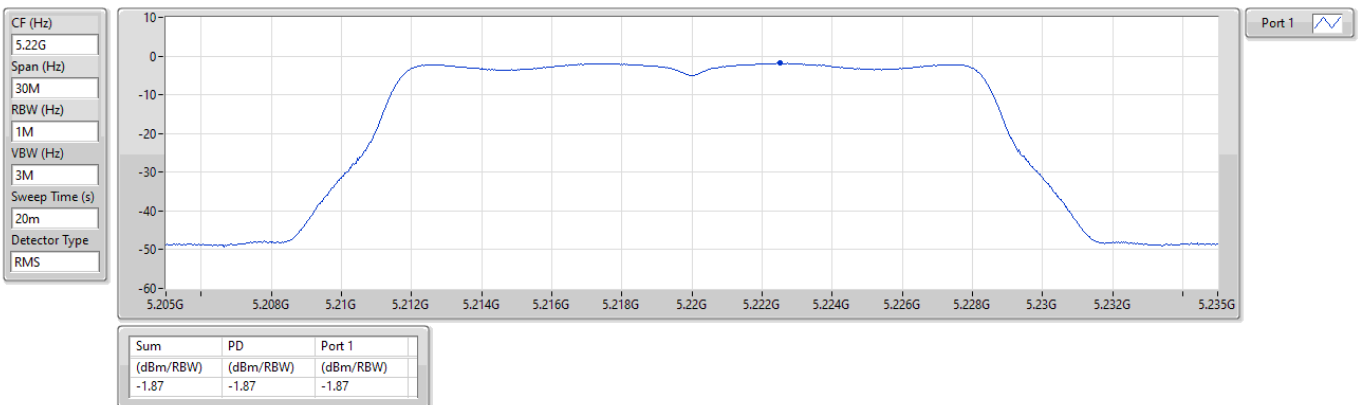
5180MHz



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5220MHz

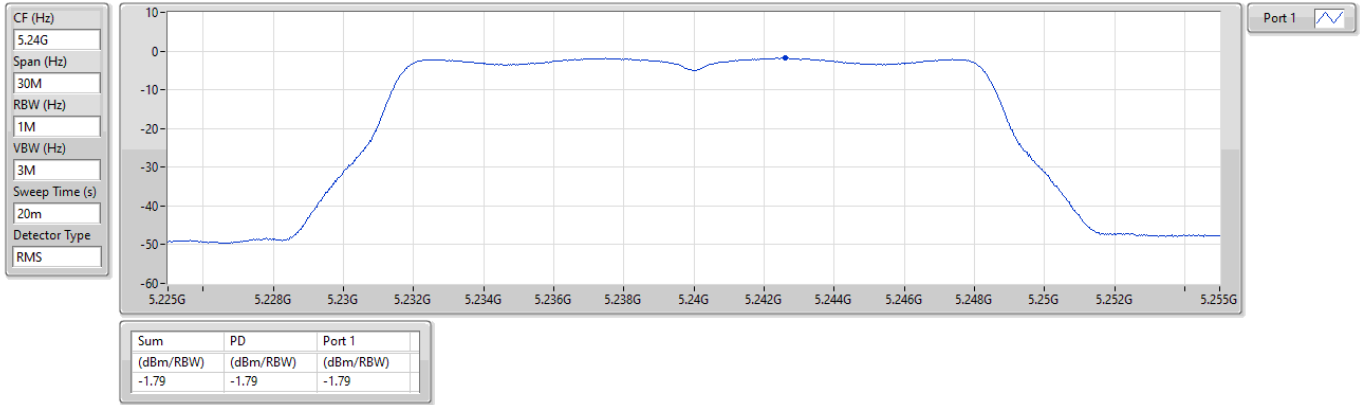




5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

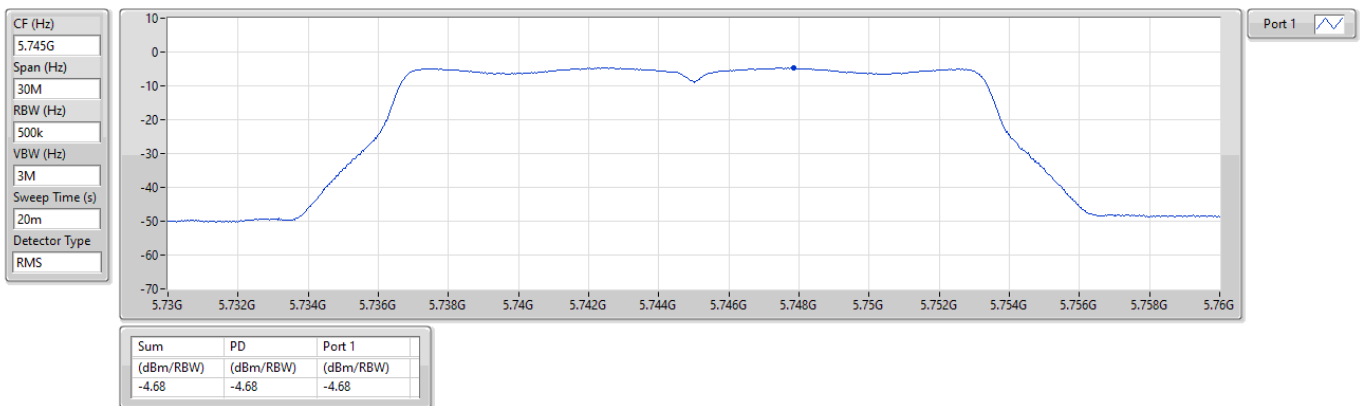
5240MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5745MHz

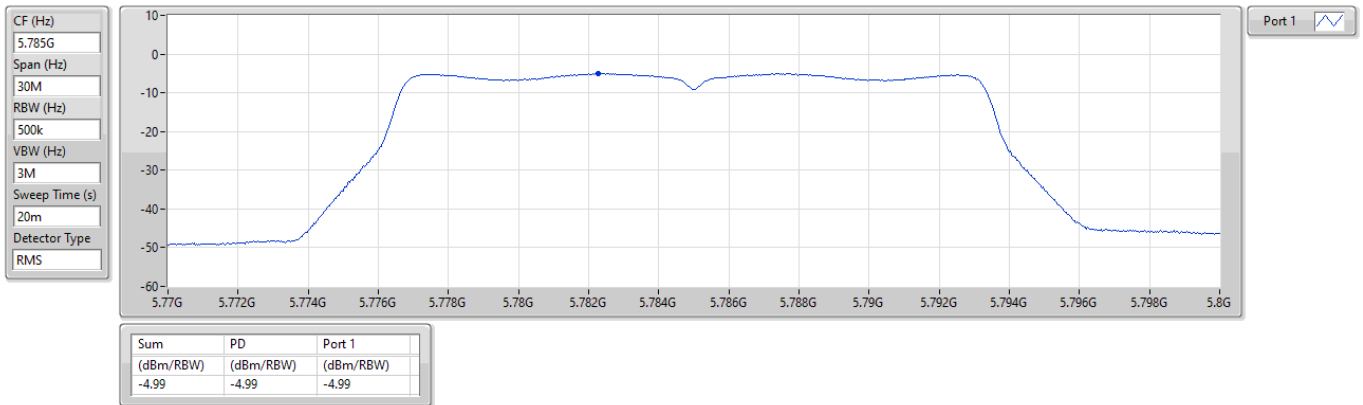




5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

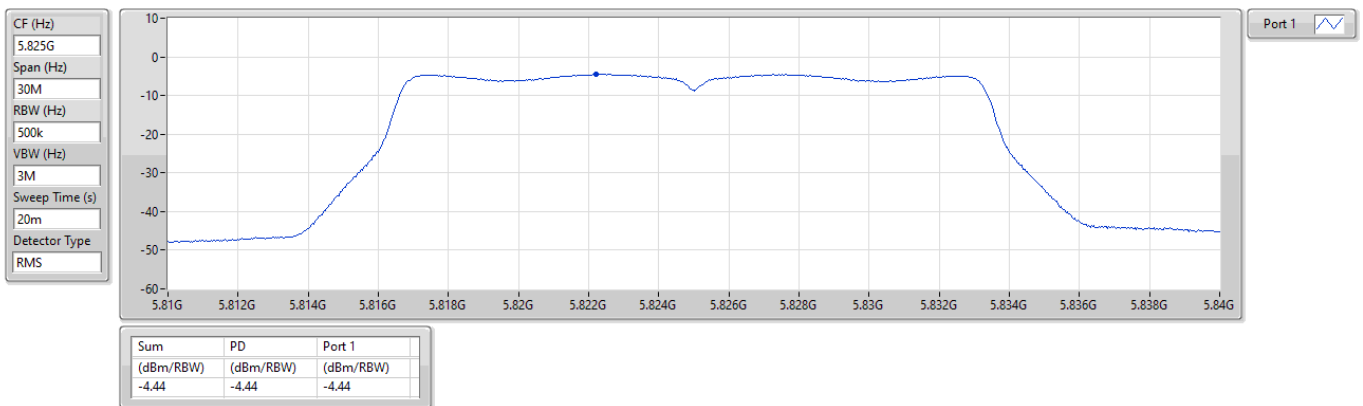
5785MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5825MHz

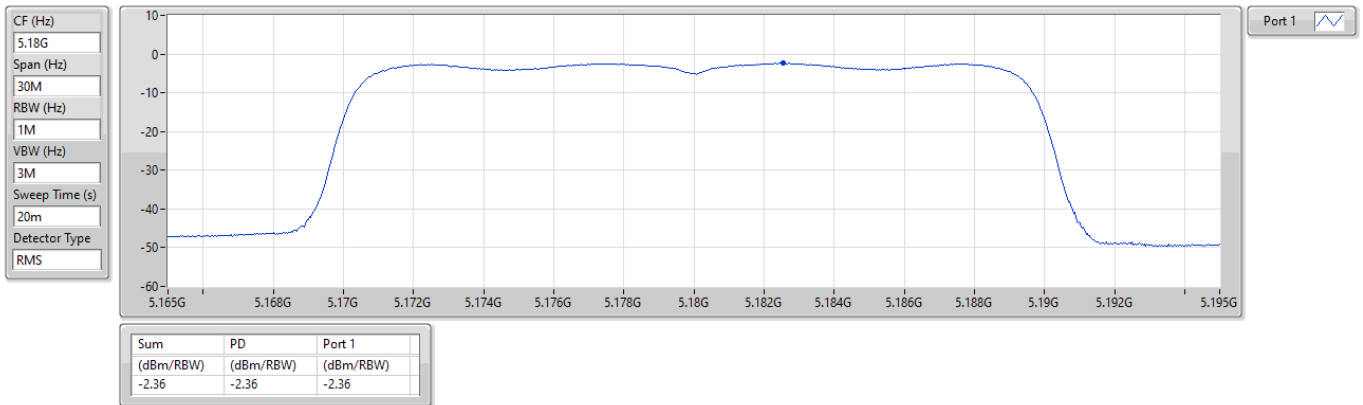




5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

PSD

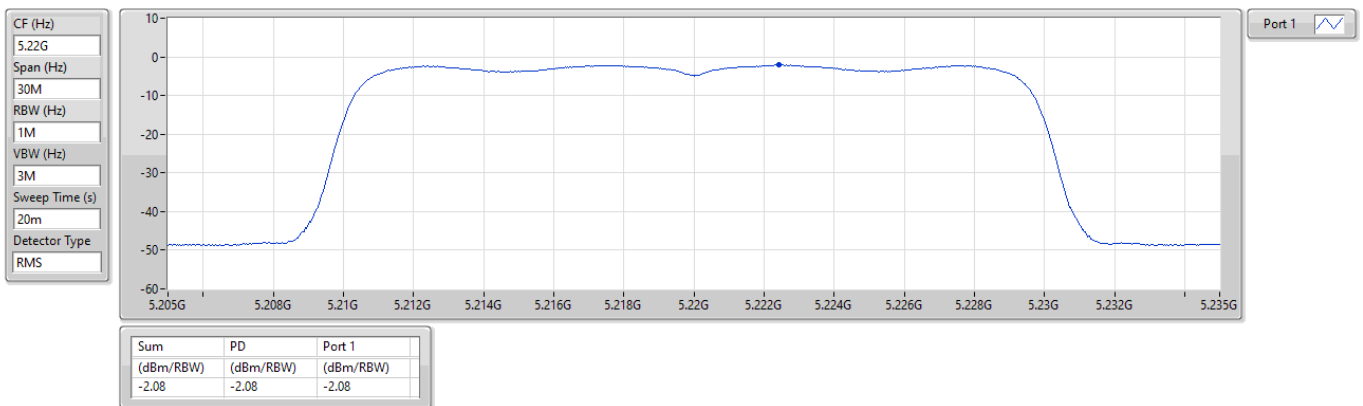
5180MHz



5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

PSD

5220MHz

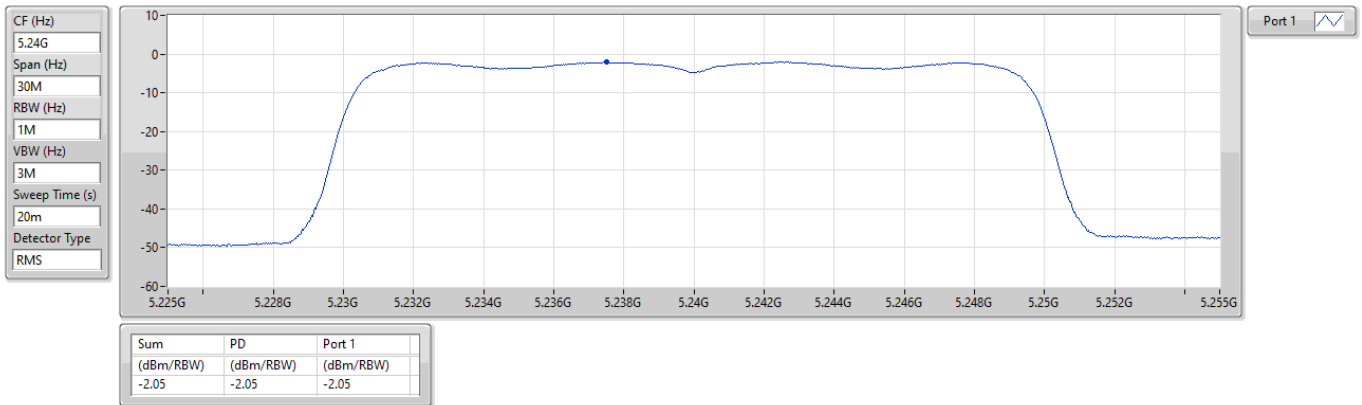




5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

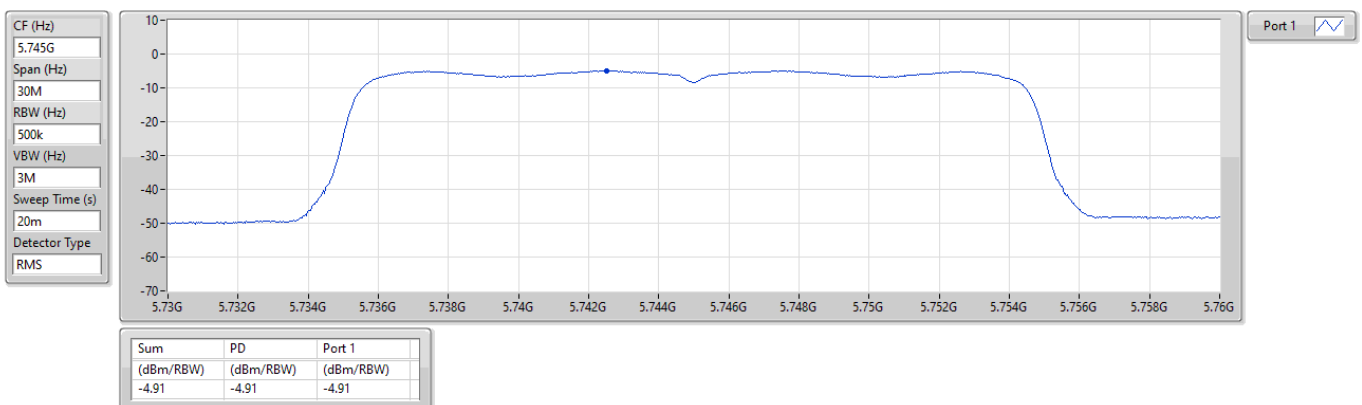
5240MHz



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5745MHz

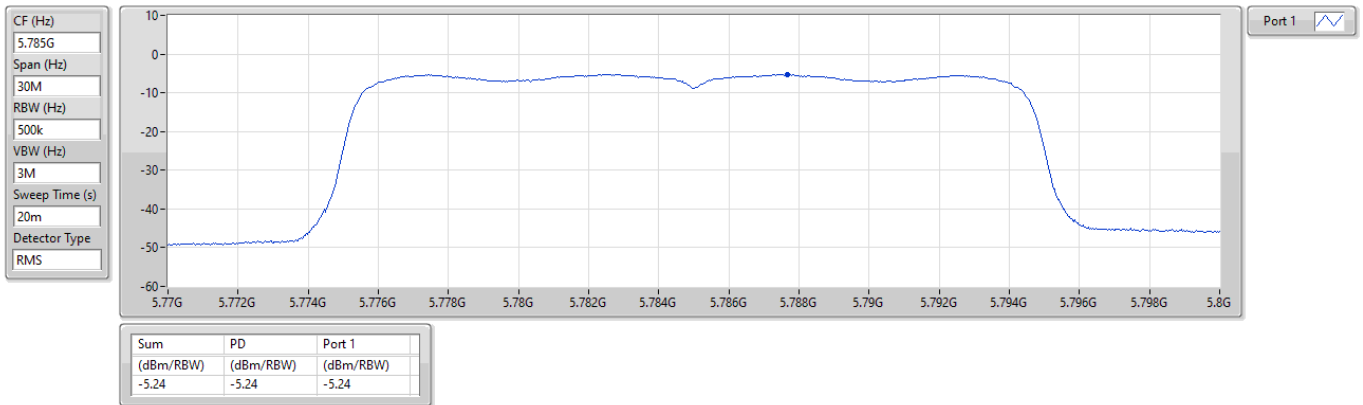




5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

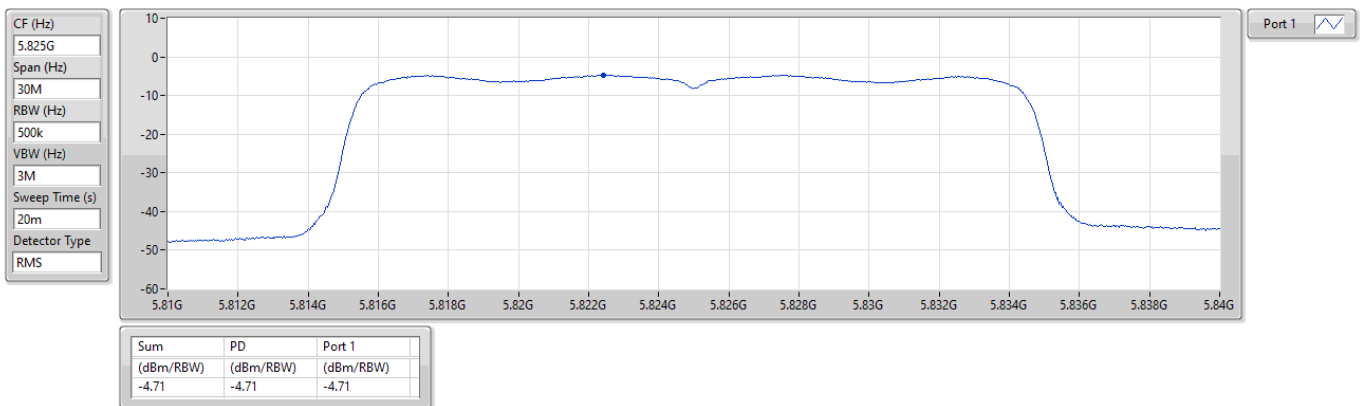
5785MHz



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5825MHz

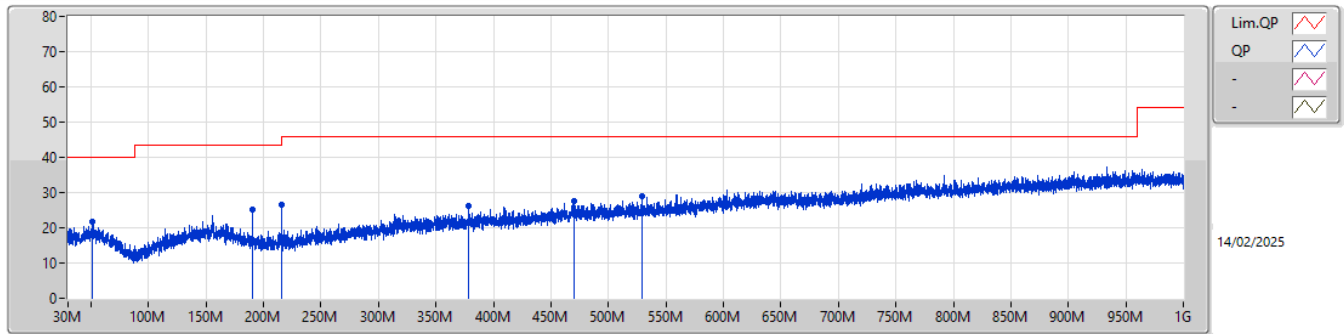




Summary

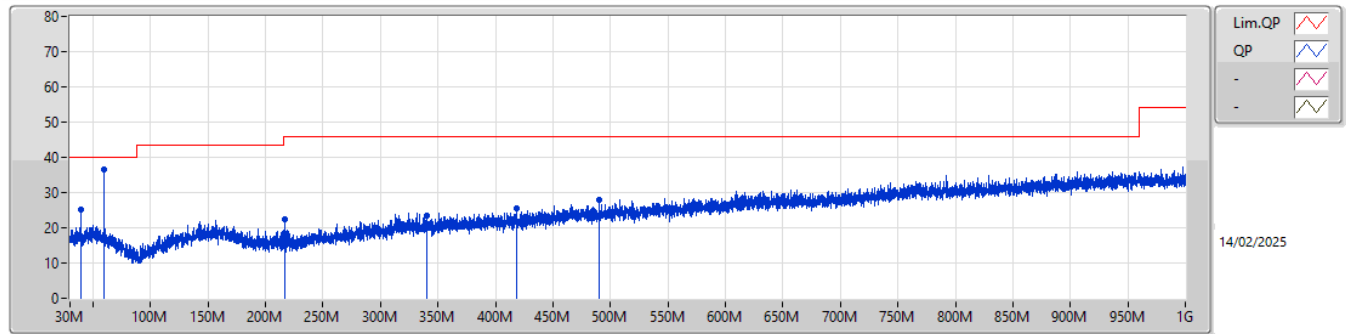
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	60M	36.59	40.00	-3.41	Vertical

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	51.09M	21.84	40.00	-18.16	-8.60	3	Horizontal	-	-	-	30.44	18.79	0.66	28.05		
PK	190.26M	25.04	43.50	-18.46	-11.28	3	Horizontal	-	-	-	36.32	15.47	1.37	28.12		
PK	215.57M	26.50	43.50	-17.00	-11.96	3	Horizontal	-	-	-	38.46	14.70	1.48	28.14		
PK	378.64M	26.34	46.00	-19.66	-5.84	3	Horizontal	-	-	-	32.18	20.05	2.14	28.03		
PK	470.01M	27.42	46.00	-18.58	-3.40	3	Horizontal	-	-	-	30.82	22.00	2.53	27.93		
PK	529.06M	28.91	46.00	-17.09	-2.20	3	Horizontal	-	-	-	31.11	22.88	2.80	27.88		

Mode 1



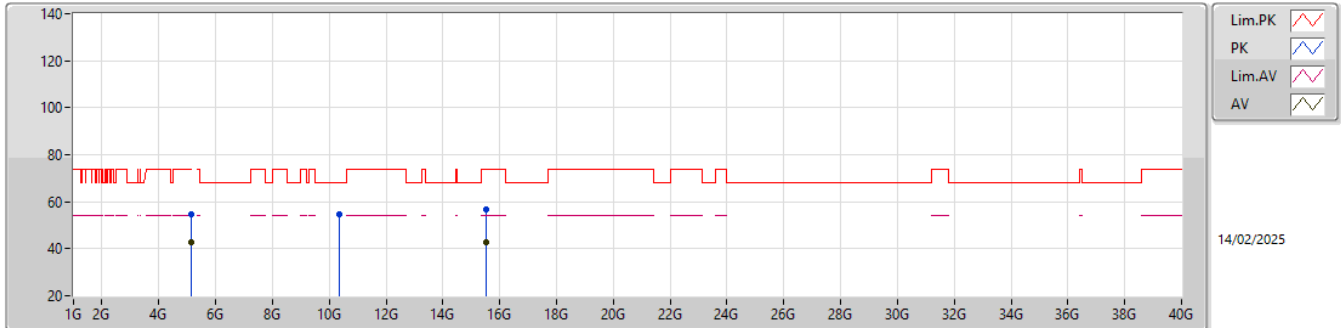
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	39.84M	25.21	40.00	-14.79	-9.40	3	Vertical	-	-	-	34.61	18.08	0.54	28.02		
PK	60M	36.59	40.00	-3.41	-9.17	3	Vertical	-	-	-	45.76	18.20	0.68	28.05		
PK	216.97M	22.40	46.00	-23.60	-11.96	3	Vertical	-	-	-	34.36	14.70	1.48	28.14		
PK	340.68M	23.45	46.00	-22.55	-6.97	3	Vertical	-	-	-	30.42	19.19	1.95	28.11		
PK	418M	25.58	46.00	-20.42	-4.91	3	Vertical	-	-	-	30.49	20.76	2.31	27.98		
PK	489.7M	27.79	46.00	-18.21	-3.10	3	Vertical	-	-	-	30.89	22.19	2.63	27.92		

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	AV	15.72G	42.79	54.00	-11.21	3	Vertical	227	1.00	-
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	AV	5.15G	43.22	54.00	-10.78	3	Vertical	102	1.59	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	PK	17.475G	58.58	68.20	-9.62	3	Vertical	105	1.00	-
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	PK	17.475G	58.56	68.20	-9.64	3	Horizontal	162	1.00	-

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

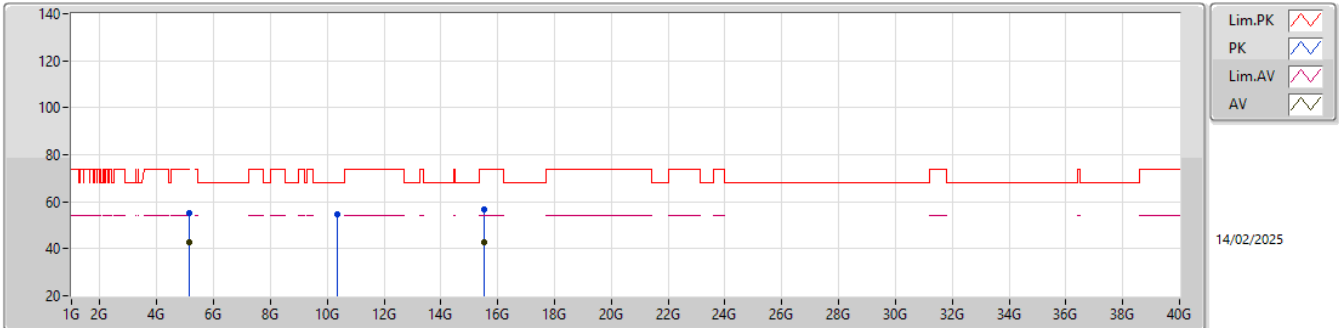
5180MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	5.15G	42.75	54.00	-11.25	42.33	3	Horizontal	119	1.00	-	31.90	6.93	38.41			
PK	5.15G	54.86	74.00	-19.14	54.44	3	Horizontal	119	1.00	-	31.90	6.93	38.41			
PK	10.36G	54.50	68.20	-13.70	46.47	3	Horizontal	148	1.00	-	39.50	9.88	41.35			
AV	15.54G	42.72	54.00	-11.28	37.21	3	Horizontal	208	1.00	-	38.54	12.00	45.03			
PK	15.54G	56.67	74.00	-17.33	51.16	3	Horizontal	208	1.00	-	38.54	12.00	45.03			

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

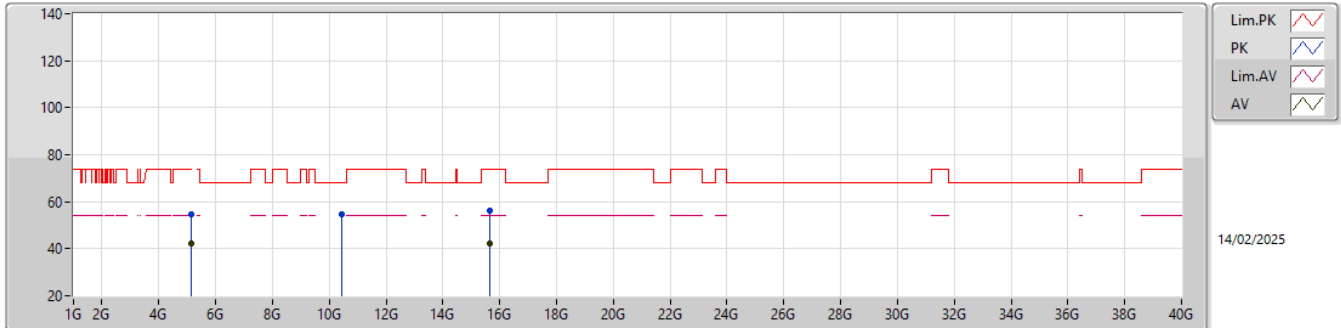
5180MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	5.15G	42.77	54.00	-11.23	42.35	3	Vertical	100	1.54	-	31.90	6.93	38.41			
PK	5.15G	54.93	74.00	-19.07	54.51	3	Vertical	100	1.54	-	31.90	6.93	38.41			
PK	10.36G	54.58	68.20	-13.62	46.55	3	Vertical	108	1.00	-	39.50	9.88	41.35			
AV	15.54G	42.77	54.00	-11.23	37.26	3	Vertical	115	1.00	-	38.54	12.00	45.03			
PK	15.54G	56.79	74.00	-17.21	51.28	3	Vertical	115	1.00	-	38.54	12.00	45.03			

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

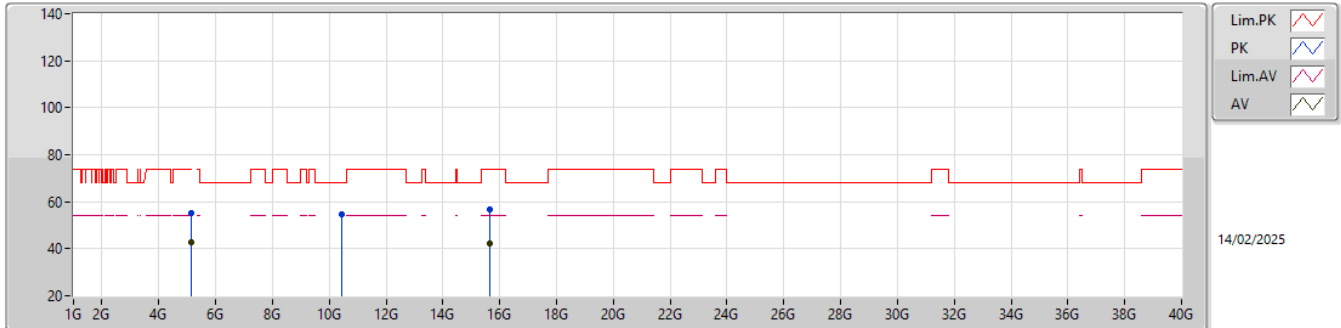
5220MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	5.15G	42.45	54.00	-11.55	42.03	3	Horizontal	112	1.00	-	31.90	6.93	38.41			
PK	5.15G	54.53	74.00	-19.47	54.11	3	Horizontal	112	1.00	-	31.90	6.93	38.41			
PK	10.44G	54.61	68.20	-13.59	46.51	3	Horizontal	125	1.00	-	39.58	9.92	41.40			
AV	15.66G	42.38	54.00	-11.62	37.29	3	Horizontal	158	1.00	-	37.96	12.08	44.95			
PK	15.66G	56.27	74.00	-17.73	51.18	3	Horizontal	158	1.00	-	37.96	12.08	44.95			

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

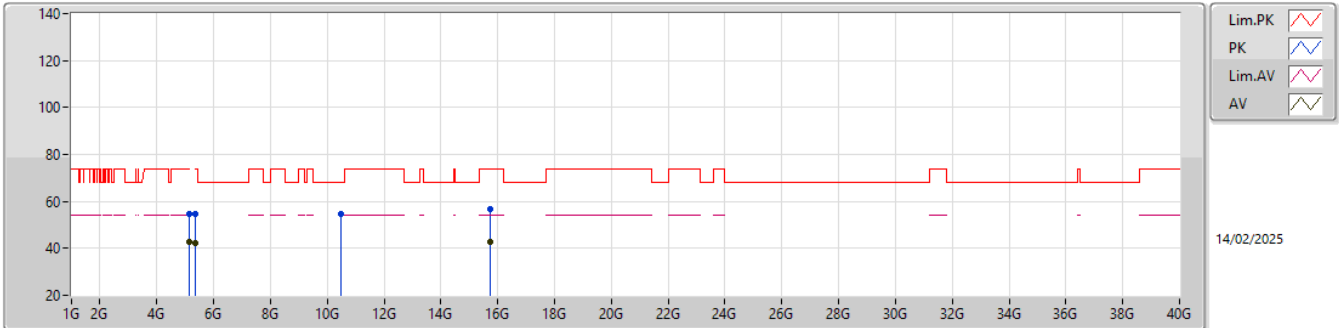
5220MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	5.15G	42.65	54.00	-11.35	42.23	3	Vertical	100	1.52	-	31.90	6.93	38.41			
PK	5.15G	54.93	74.00	-19.07	54.51	3	Vertical	100	1.52	-	31.90	6.93	38.41			
PK	10.44G	54.54	68.20	-13.66	46.44	3	Vertical	117	1.00	-	39.58	9.92	41.40			
AV	15.66G	42.00	54.00	-12.00	36.91	3	Vertical	216	1.00	-	37.96	12.08	44.95			
PK	15.66G	56.48	74.00	-17.52	51.39	3	Vertical	216	1.00	-	37.96	12.08	44.95			

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

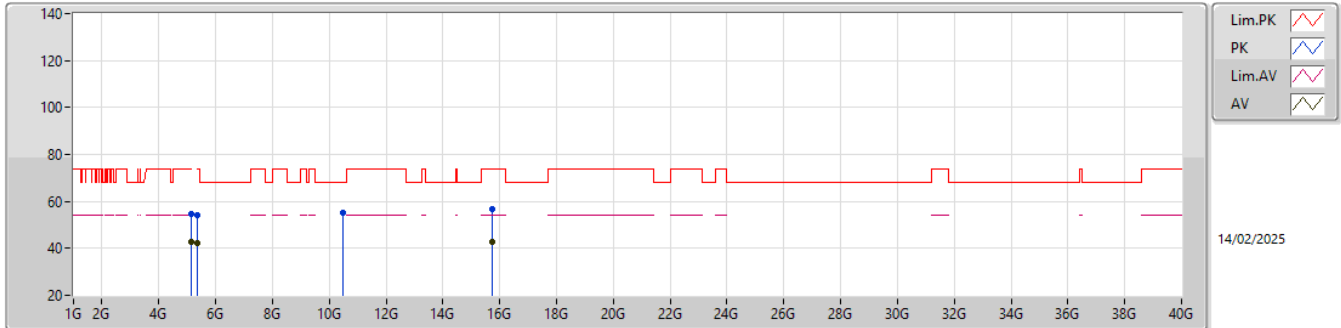
5240MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	5.15G	42.68	54.00	-11.32	42.26	3	Horizontal	121	1.00	-	31.90	6.93	38.41			
PK	5.15G	54.83	74.00	-19.17	54.41	3	Horizontal	121	1.00	-	31.90	6.93	38.41			
AV	5.35G	42.17	54.00	-11.83	42.35	3	Horizontal	121	1.00	-	31.30	7.03	38.51			
PK	5.35G	54.40	74.00	-19.60	54.58	3	Horizontal	121	1.00	-	31.30	7.03	38.51			
PK	10.48G	54.89	68.20	-13.31	46.77	3	Horizontal	203	1.00	-	39.60	9.94	41.42			
AV	15.72G	42.67	54.00	-11.33	37.23	3	Horizontal	183	1.00	-	38.24	12.12	44.92			
PK	15.72G	56.73	74.00	-17.27	51.29	3	Horizontal	183	1.00	-	38.24	12.12	44.92			

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

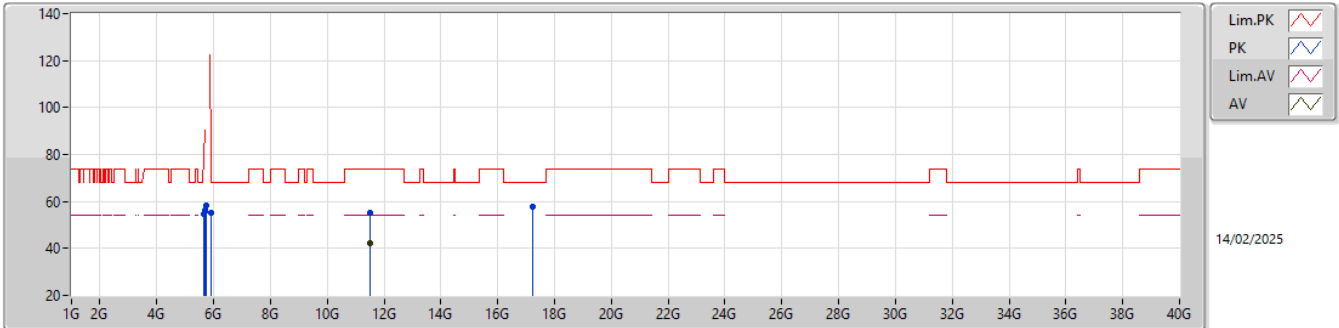
5240MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	5.15G	42.70	54.00	-11.30	42.28	3	Vertical	103	1.52	-	31.90	6.93	38.41			
PK	5.15G	54.89	74.00	-19.11	54.47	3	Vertical	103	1.52	-	31.90	6.93	38.41			
AV	5.35G	42.08	54.00	-11.92	42.26	3	Vertical	103	1.52	-	31.30	7.03	38.51			
PK	5.35G	54.20	74.00	-19.80	54.38	3	Vertical	103	1.52	-	31.30	7.03	38.51			
PK	10.48G	55.23	68.20	-12.97	47.11	3	Vertical	108	1.00	-	39.60	9.94	41.42			
AV	15.72G	42.79	54.00	-11.21	37.35	3	Vertical	227	1.00	-	38.24	12.12	44.92			
PK	15.72G	56.96	74.00	-17.04	51.52	3	Vertical	227	1.00	-	38.24	12.12	44.92			

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

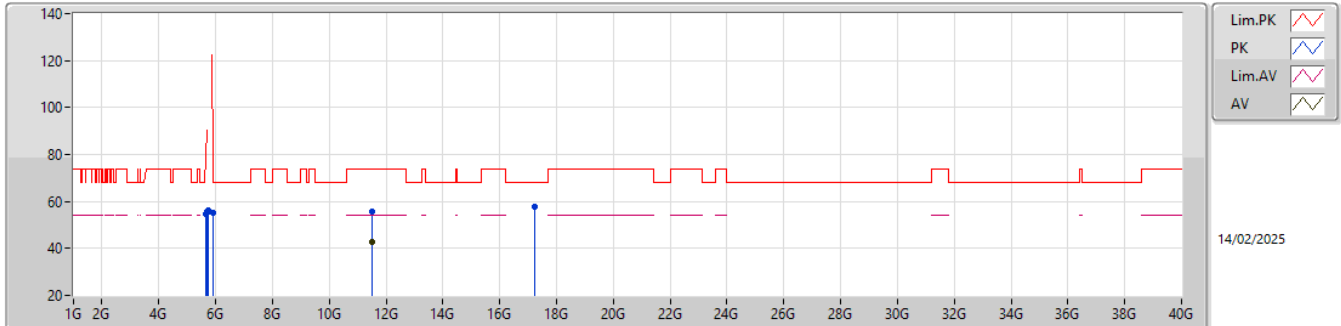
5745MHz_TX



Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB/m)	(dB)	(dB)			
PK	5.65G	54.54	68.20	-13.66	54.25	3	Horizontal	355	1.86	-	31.70	7.19	38.60			
PK	5.7G	55.45	105.20	-49.75	54.84	3	Horizontal	355	1.86	-	32.00	7.22	38.61			
PK	5.72G	56.41	110.80	-54.39	55.79	3	Horizontal	355	1.86	-	32.00	7.23	38.61			
PK	5.725G	58.19	122.20	-64.01	57.56	3	Horizontal	355	1.86	-	32.00	7.24	38.61			
PK	5.925G	55.34	68.20	-12.86	54.33	3	Horizontal	355	1.86	-	32.30	7.33	38.62			
AV	11.49G	42.45	54.00	-11.55	34.27	3	Horizontal	108	1.00	-	39.90	10.37	42.09			
PK	11.49G	55.12	74.00	-18.88	46.94	3	Horizontal	108	1.00	-	39.90	10.37	42.09			
PK	17.235G	57.60	68.20	-10.60	51.38	3	Horizontal	223	1.00	-	39.50	12.86	46.14			

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

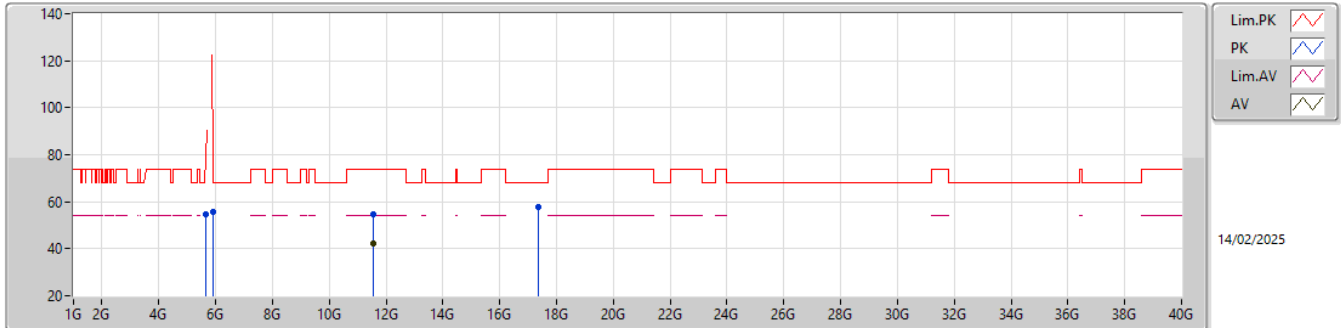
5745MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
PK	5.65G	54.56	68.20	-13.64	54.27	3	Vertical	242	1.00	-	31.70	7.19	38.60			
PK	5.7G	54.99	105.20	-50.21	54.38	3	Vertical	242	1.00	-	32.00	7.22	38.61			
PK	5.72G	55.46	110.80	-55.34	54.84	3	Vertical	242	1.00	-	32.00	7.23	38.61			
PK	5.725G	56.19	122.20	-66.01	55.56	3	Vertical	242	1.00	-	32.00	7.24	38.61			
PK	5.925G	55.23	68.20	-12.97	54.22	3	Vertical	242	1.00	-	32.30	7.33	38.62			
AV	11.49G	42.56	54.00	-11.44	34.38	3	Vertical	208	1.00	-	39.90	10.37	42.09			
PK	11.49G	55.53	74.00	-18.47	47.35	3	Vertical	208	1.00	-	39.90	10.37	42.09			
PK	17.235G	57.84	68.20	-10.36	51.62	3	Vertical	162	1.00	-	39.50	12.86	46.14			

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

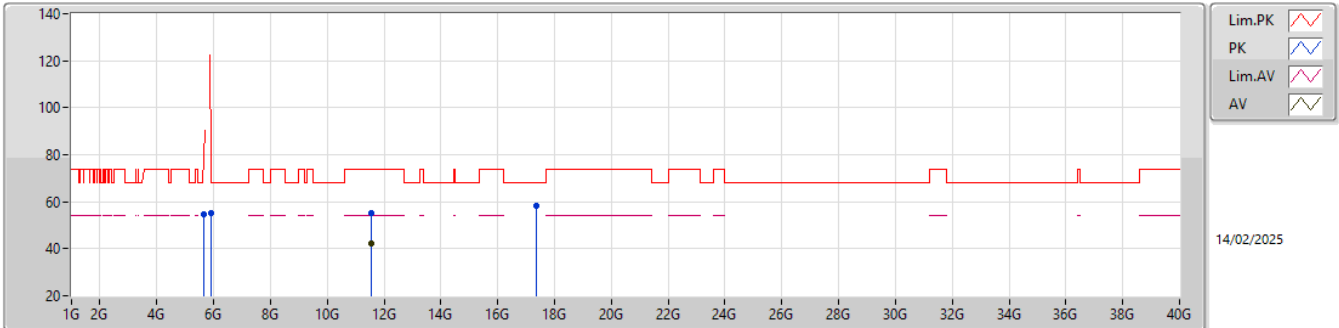
5785MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
PK	5.65G	54.60	68.20	-13.60	54.31	3	Horizontal	358	1.75	-	31.70	7.19	38.60			
PK	5.925G	55.52	68.20	-12.68	54.51	3	Horizontal	358	1.75	-	32.30	7.33	38.62			
AV	11.57G	42.18	54.00	-11.82	34.21	3	Horizontal	243	1.00	-	39.68	10.39	42.10			
PK	11.57G	54.79	74.00	-19.21	46.82	3	Horizontal	243	1.00	-	39.68	10.39	42.10			
PK	17.355G	57.88	68.20	-10.32	51.26	3	Horizontal	154	1.00	-	40.13	12.90	46.41			

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

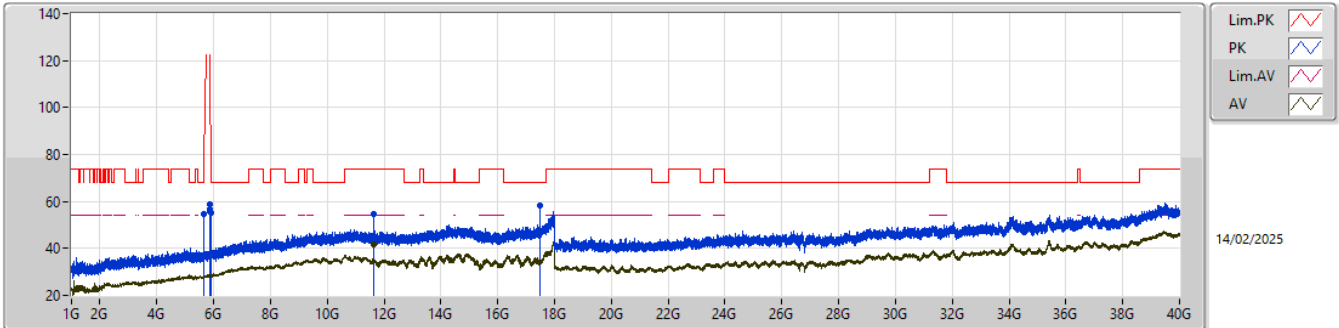
5785MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
PK	5.65G	54.40	68.20	-13.80	54.11	3	Vertical	240	1.00	-	31.70	7.19	38.60			
PK	5.925G	55.28	68.20	-12.92	54.27	3	Vertical	240	1.00	-	32.30	7.33	38.62			
AV	11.57G	42.23	54.00	-11.77	34.26	3	Vertical	108	1.00	-	39.68	10.39	42.10			
PK	11.57G	55.25	74.00	-18.75	47.28	3	Vertical	108	1.00	-	39.68	10.39	42.10			
PK	17.355G	58.14	68.20	-10.06	51.52	3	Vertical	248	1.00	-	40.13	12.90	46.41			

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

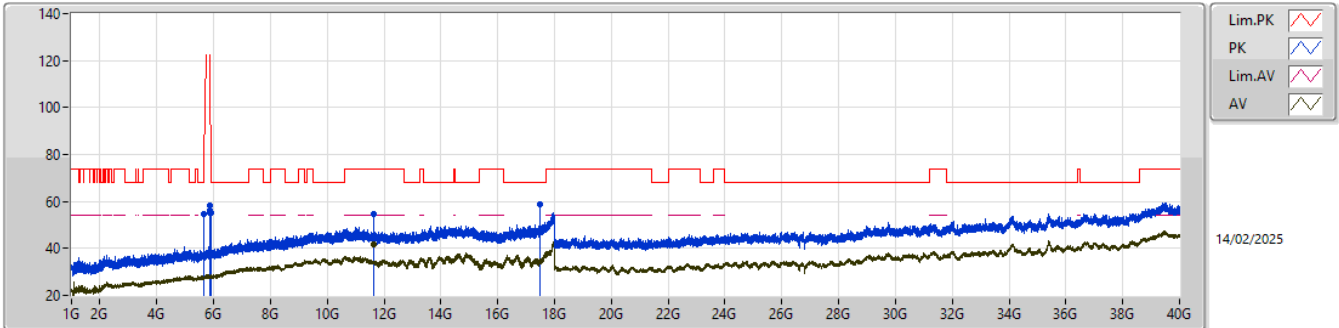
5825MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
PK	5.65G	54.67	68.20	-13.53	54.38	3	Horizontal	358	1.83	-	31.70	7.19	38.60			
PK	5.85G	58.64	122.20	-63.56	57.86	3	Horizontal	358	1.83	-	32.10	7.30	38.62			
PK	5.855G	56.92	110.80	-53.88	56.11	3	Horizontal	358	1.83	-	32.12	7.31	38.62			
PK	5.875G	55.92	105.20	-49.28	55.03	3	Horizontal	358	1.83	-	32.20	7.31	38.62			
PK	5.925G	55.27	68.20	-12.93	54.26	3	Horizontal	358	1.83	-	32.30	7.33	38.62			
AV	11.65G	41.73	54.00	-12.27	34.22	3	Horizontal	225	1.00	-	39.20	10.42	42.11			
PK	11.65G	54.72	74.00	-19.28	47.21	3	Horizontal	225	1.00	-	39.20	10.42	42.11			
PK	17.475G	58.29	68.20	-9.91	51.28	3	Horizontal	102	1.00	-	40.75	12.93	46.67			

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

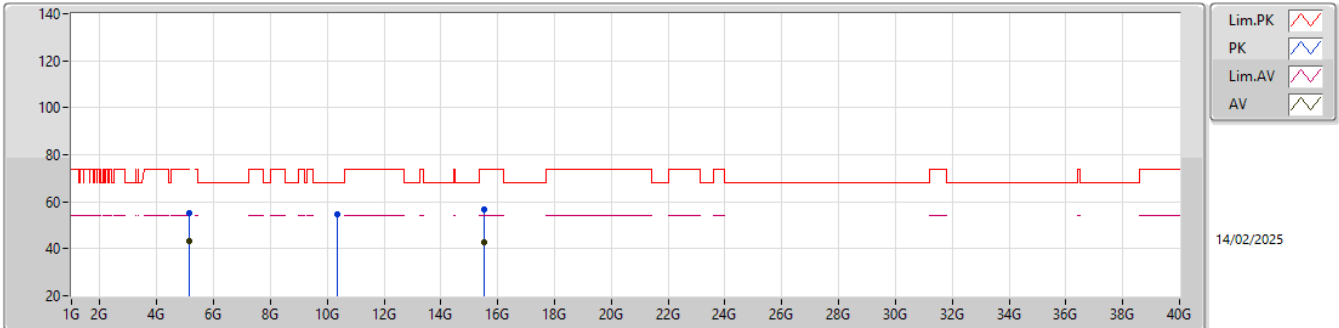
5825MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
PK	5.65G	54.62	68.20	-13.58	54.33	3	Vertical	244	1.00	-	31.70	7.19	38.60			
PK	5.85G	58.11	122.20	-64.09	57.33	3	Vertical	244	1.00	-	32.10	7.30	38.62			
PK	5.855G	56.04	110.80	-54.76	55.23	3	Vertical	244	1.00	-	32.12	7.31	38.62			
PK	5.875G	55.40	105.20	-49.80	54.51	3	Vertical	244	1.00	-	32.20	7.31	38.62			
PK	5.925G	55.17	68.20	-13.03	54.16	3	Vertical	244	1.00	-	32.30	7.33	38.62			
AV	11.65G	41.92	54.00	-12.08	34.41	3	Vertical	221	1.00	-	39.20	10.42	42.11			
PK	11.65G	54.77	74.00	-19.23	47.26	3	Vertical	221	1.00	-	39.20	10.42	42.11			
PK	17.475G	58.58	68.20	-9.62	51.57	3	Vertical	105	1.00	-	40.75	12.93	46.67			

5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

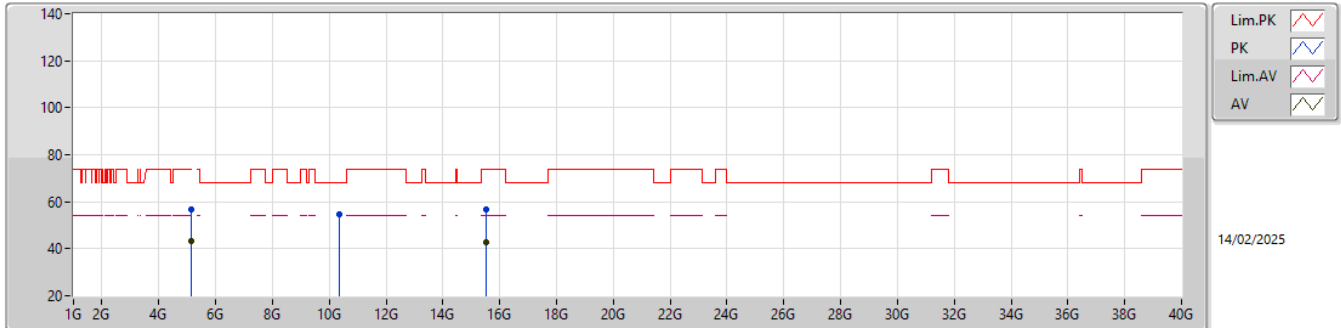
5180MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	5.15G	43.16	54.00	-10.84	42.74	3	Horizontal	121	1.00	-	31.90	6.93	38.41			
PK	5.15G	55.26	74.00	-18.74	54.84	3	Horizontal	121	1.00	-	31.90	6.93	38.41			
PK	10.36G	54.62	68.20	-13.58	46.59	3	Horizontal	156	1.00	-	39.50	9.88	41.35			
AV	15.54G	42.82	54.00	-11.18	37.31	3	Horizontal	231	1.00	-	38.54	12.00	45.03			
PK	15.54G	56.88	74.00	-17.12	51.37	3	Horizontal	231	1.00	-	38.54	12.00	45.03			

5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

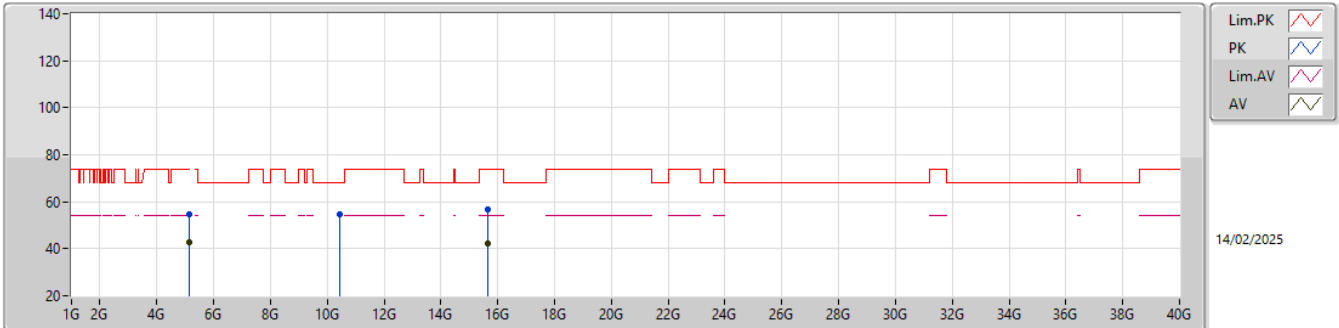
5180MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	5.15G	43.22	54.00	-10.78	42.80	3	Vertical	102	1.59	-	31.90	6.93	38.41			
PK	5.15G	56.57	74.00	-17.43	56.15	3	Vertical	102	1.59	-	31.90	6.93	38.41			
PK	10.36G	54.68	68.20	-13.52	46.65	3	Vertical	143	1.00	-	39.50	9.88	41.35			
AV	15.54G	42.77	54.00	-11.23	37.26	3	Vertical	226	1.00	-	38.54	12.00	45.03			
PK	15.54G	56.75	74.00	-17.25	51.24	3	Vertical	226	1.00	-	38.54	12.00	45.03			

5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

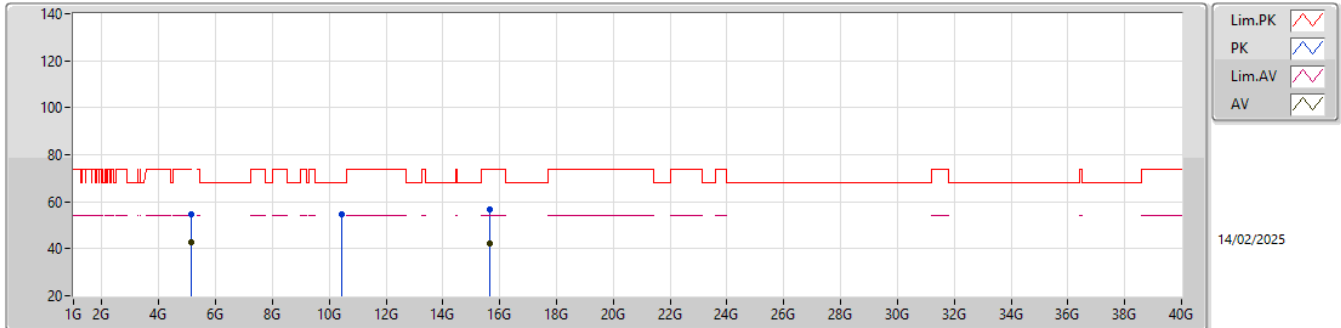
5220MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	5.15G	42.80	54.00	-11.20	42.38	3	Horizontal	103	1.00	-	31.90	6.93	38.41			
PK	5.15G	54.70	74.00	-19.30	54.28	3	Horizontal	103	1.00	-	31.90	6.93	38.41			
PK	10.44G	54.58	68.20	-13.62	46.48	3	Horizontal	122	1.00	-	39.58	9.92	41.40			
AV	15.66G	42.45	54.00	-11.55	37.36	3	Horizontal	164	1.00	-	37.96	12.08	44.95			
PK	15.66G	56.48	74.00	-17.52	51.39	3	Horizontal	164	1.00	-	37.96	12.08	44.95			

5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

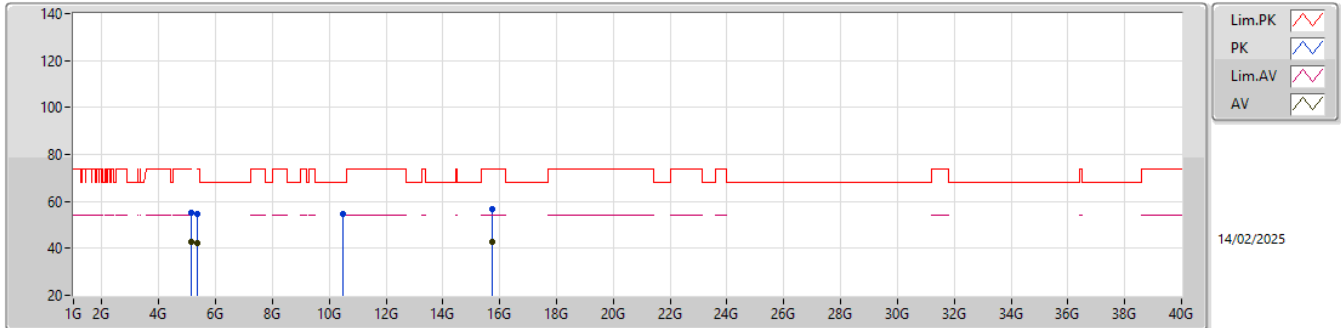
5220MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	5.15G	42.93	54.00	-11.07	42.51	3	Vertical	112	1.48	-	31.90	6.93	38.41			
PK	5.15G	54.75	74.00	-19.25	54.33	3	Vertical	112	1.48	-	31.90	6.93	38.41			
PK	10.44G	54.64	68.20	-13.56	46.54	3	Vertical	115	1.00	-	39.58	9.92	41.40			
AV	15.66G	42.09	54.00	-11.91	37.00	3	Vertical	208	1.00	-	37.96	12.08	44.95			
PK	15.66G	56.58	74.00	-17.42	51.49	3	Vertical	208	1.00	-	37.96	12.08	44.95			

5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

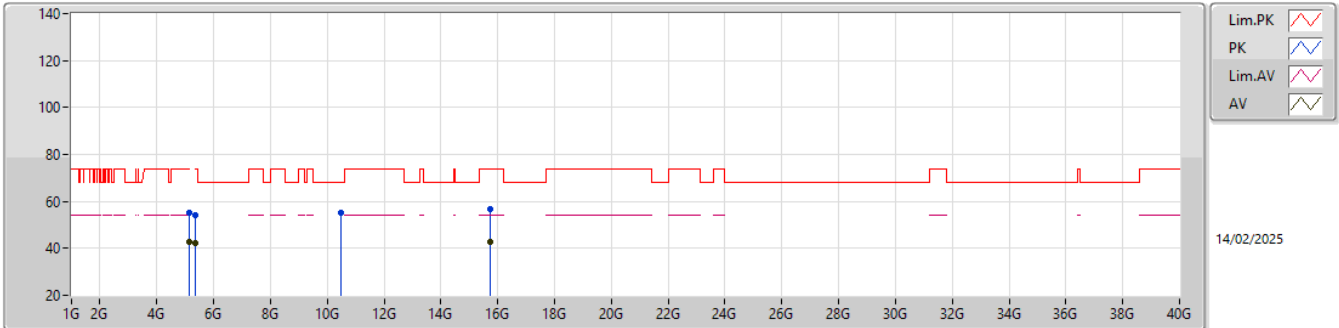
5240MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)				
AV	5.15G	42.75	54.00	-11.25	42.33	3	Horizontal	123	1.00	-	31.90	6.93	38.41				
PK	5.15G	54.93	74.00	-19.07	54.51	3	Horizontal	123	1.00	-	31.90	6.93	38.41				
AV	5.35G	42.33	54.00	-11.67	42.51	3	Horizontal	123	1.00	-	31.30	7.03	38.51				
PK	5.35G	54.54	74.00	-19.46	54.72	3	Horizontal	123	1.00	-	31.30	7.03	38.51				
PK	10.48G	54.63	68.20	-13.57	46.51	3	Horizontal	155	1.00	-	39.60	9.94	41.42				
AV	15.72G	42.78	54.00	-11.22	37.34	3	Horizontal	186	1.00	-	38.24	12.12	44.92				
PK	15.72G	56.80	74.00	-17.20	51.36	3	Horizontal	186	1.00	-	38.24	12.12	44.92				

5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

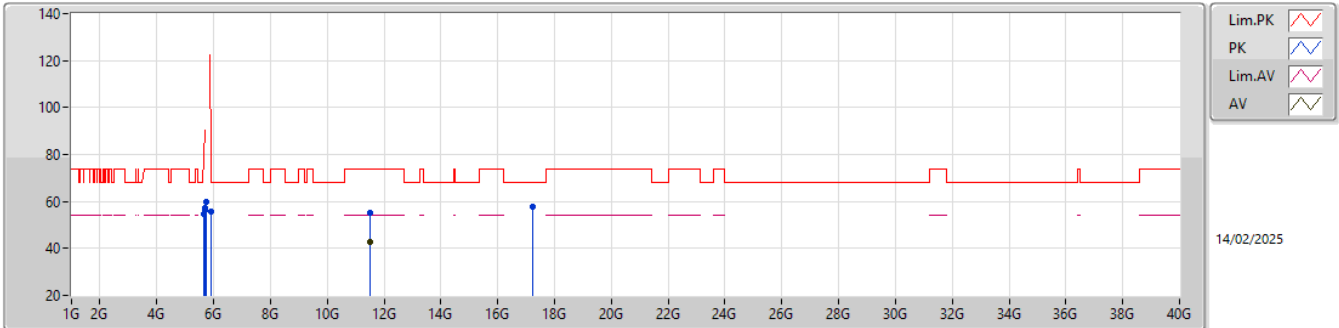
5240MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
AV	5.15G	42.75	54.00	-11.25	42.33	3	Vertical	101	1.48	-	31.90	6.93	38.41			
PK	5.15G	54.93	74.00	-19.07	54.51	3	Vertical	101	1.48	-	31.90	6.93	38.41			
AV	5.35G	42.15	54.00	-11.85	42.33	3	Vertical	101	1.48	-	31.30	7.03	38.51			
PK	5.35G	54.38	74.00	-19.62	54.56	3	Vertical	101	1.48	-	31.30	7.03	38.51			
PK	10.48G	55.43	68.20	-12.77	47.31	3	Vertical	115	1.00	-	39.60	9.94	41.42			
AV	15.72G	42.70	54.00	-11.30	37.26	3	Vertical	231	1.00	-	38.24	12.12	44.92			
PK	15.72G	56.93	74.00	-17.07	51.49	3	Vertical	231	1.00	-	38.24	12.12	44.92			

5.725-5.85GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

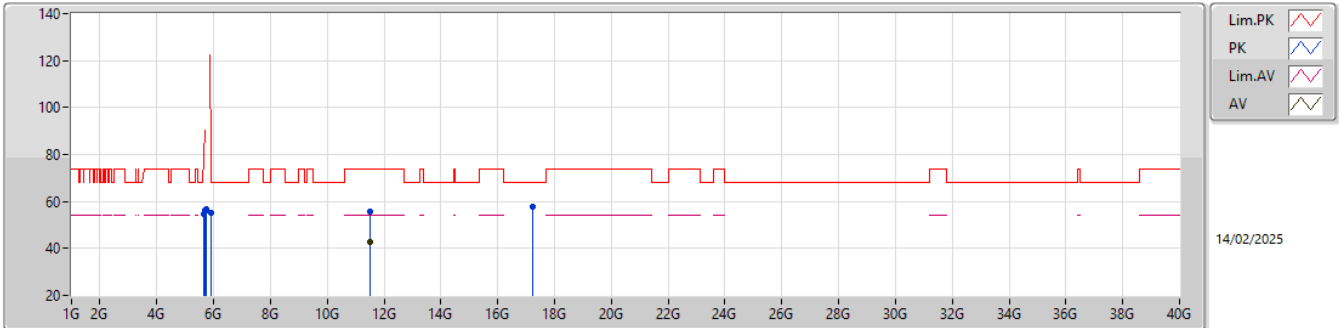
5745MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
PK	5.65G	54.80	68.20	-13.40	54.51	3	Horizontal	348	1.79	-	31.70	7.19	38.60			
PK	5.7G	56.26	105.20	-48.94	55.65	3	Horizontal	348	1.79	-	32.00	7.22	38.61			
PK	5.72G	57.46	110.80	-53.34	56.84	3	Horizontal	348	1.79	-	32.00	7.23	38.61			
PK	5.725G	59.74	122.20	-62.46	59.11	3	Horizontal	348	1.79	-	32.00	7.24	38.61			
PK	5.925G	55.49	68.20	-12.71	54.48	3	Horizontal	348	1.79	-	32.30	7.33	38.62			
AV	11.49G	42.69	54.00	-11.31	34.51	3	Horizontal	116	1.00	-	39.90	10.37	42.09			
PK	11.49G	55.39	74.00	-18.61	47.21	3	Horizontal	116	1.00	-	39.90	10.37	42.09			
PK	17.235G	57.68	68.20	-10.52	51.46	3	Horizontal	234	1.00	-	39.50	12.86	46.14			

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

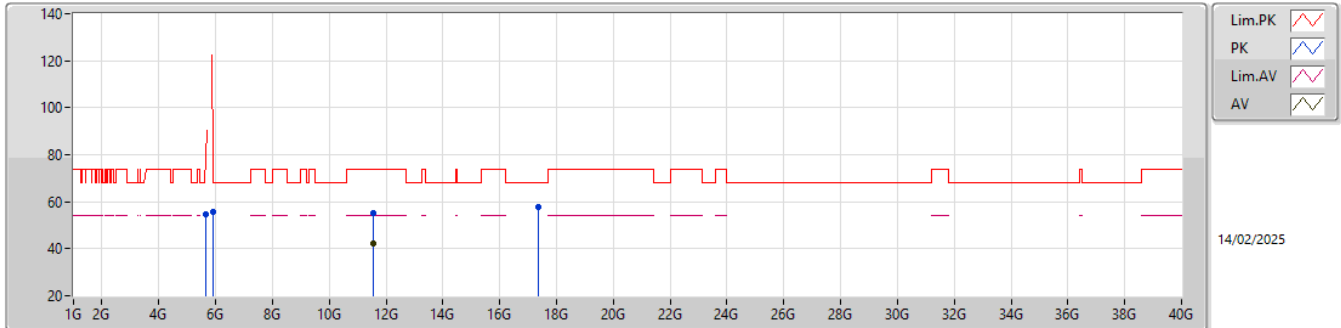
5745MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
PK	5.65G	54.80	68.20	-13.40	54.51	3	Vertical	240	1.00	-	31.70	7.19	38.60			
PK	5.7G	55.74	105.20	-49.46	55.13	3	Vertical	240	1.00	-	32.00	7.22	38.61			
PK	5.72G	56.11	110.80	-54.69	55.49	3	Vertical	240	1.00	-	32.00	7.23	38.61			
PK	5.725G	56.86	122.20	-65.34	56.23	3	Vertical	240	1.00	-	32.00	7.24	38.61			
PK	5.925G	55.27	68.20	-12.93	54.26	3	Vertical	240	1.00	-	32.30	7.33	38.62			
AV	11.49G	42.51	54.00	-11.49	34.33	3	Vertical	188	1.00	-	39.90	10.37	42.09			
PK	11.49G	55.44	74.00	-18.56	47.26	3	Vertical	188	1.00	-	39.90	10.37	42.09			
PK	17.235G	57.80	68.20	-10.40	51.58	3	Vertical	162	1.00	-	39.50	12.86	46.14			

5.725-5.85GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

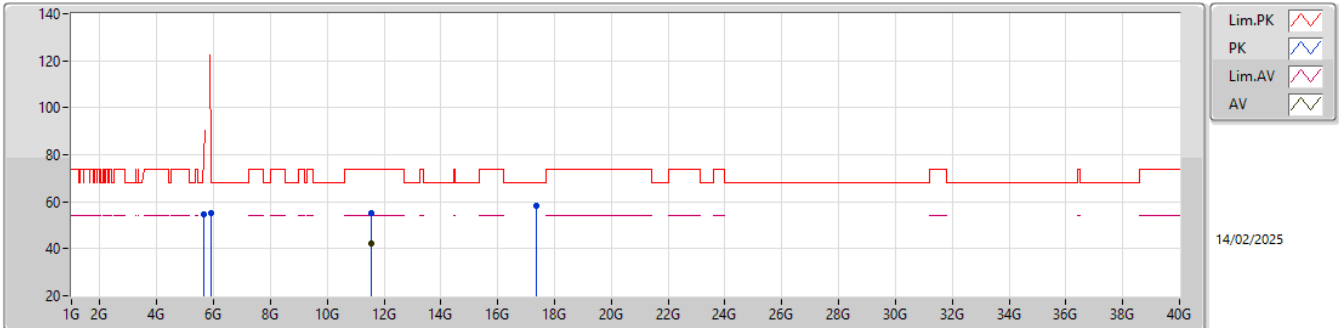
5785MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
PK	5.65G	54.80	68.20	-13.40	54.51	3	Horizontal	355	1.68	-	31.70	7.19	38.60			
PK	5.925G	55.67	68.20	-12.53	54.66	3	Horizontal	355	1.68	-	32.30	7.33	38.62			
AV	11.57G	42.28	54.00	-11.72	34.31	3	Horizontal	238	1.00	-	39.68	10.39	42.10			
PK	11.57G	55.18	74.00	-18.82	47.21	3	Horizontal	238	1.00	-	39.68	10.39	42.10			
PK	17.355G	58.00	68.20	-10.20	51.38	3	Horizontal	156	1.00	-	40.13	12.90	46.41			

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

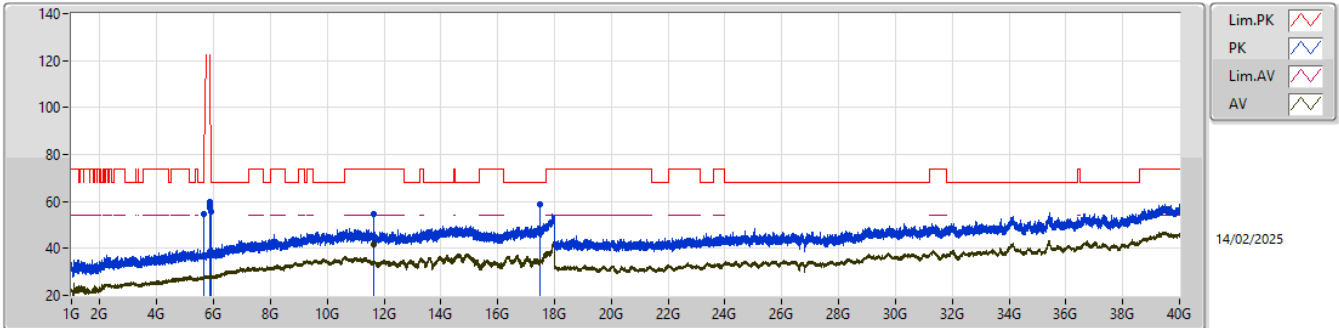
5785MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
PK	5.65G	54.51	68.20	-13.69	54.22	3	Vertical	243	1.00	-	31.70	7.19	38.60			
PK	5.925G	55.39	68.20	-12.81	54.38	3	Vertical	243	1.00	-	32.30	7.33	38.62			
AV	11.57G	42.19	54.00	-11.81	34.22	3	Vertical	115	1.00	-	39.68	10.39	42.10			
PK	11.57G	55.32	74.00	-18.68	47.35	3	Vertical	115	1.00	-	39.68	10.39	42.10			
PK	17.355G	58.19	68.20	-10.01	51.57	3	Vertical	251	1.00	-	40.13	12.90	46.41			

5.725-5.85GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

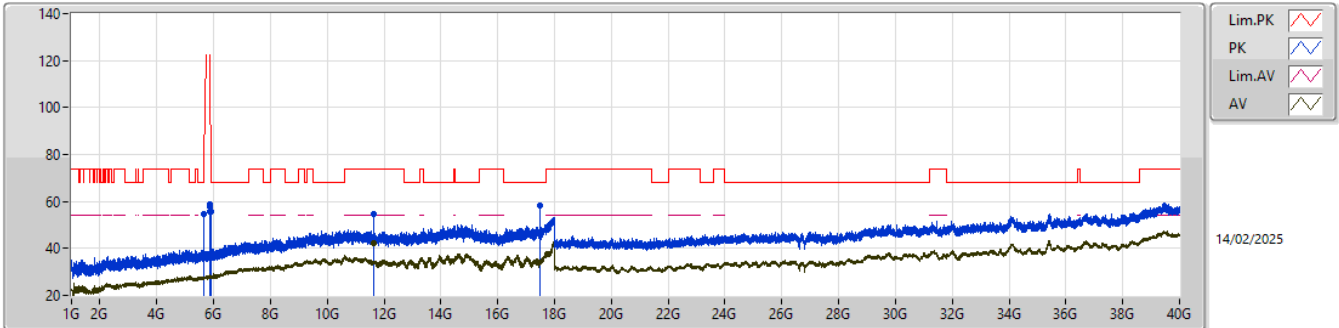
5825MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
PK	5.65G	54.80	68.20	-13.40	54.51	3	Horizontal	345	1.79	-	31.70	7.19	38.60			
PK	5.85G	59.99	122.20	-62.21	59.21	3	Horizontal	345	1.79	-	32.10	7.30	38.62			
PK	5.855G	58.38	110.80	-52.42	57.57	3	Horizontal	345	1.79	-	32.12	7.31	38.62			
PK	5.875G	57.02	105.20	-48.18	56.13	3	Horizontal	345	1.79	-	32.20	7.31	38.62			
PK	5.925G	55.57	68.20	-12.63	54.56	3	Horizontal	345	1.79	-	32.30	7.33	38.62			
AV	11.65G	41.82	54.00	-12.18	34.31	3	Horizontal	208	1.00	-	39.20	10.42	42.11			
PK	11.65G	54.86	74.00	-19.14	47.35	3	Horizontal	208	1.00	-	39.20	10.42	42.11			
PK	17.475G	58.56	68.20	-9.64	51.55	3	Horizontal	162	1.00	-	40.75	12.93	46.67			

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5825MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB/m)	CL (dB)	PA (dB)			
PK	5.65G	54.51	68.20	-13.69	54.22	3	Vertical	251	1.00	-	31.70	7.19	38.60			
PK	5.85G	58.89	122.20	-63.31	58.11	3	Vertical	251	1.00	-	32.10	7.30	38.62			
PK	5.855G	57.65	110.80	-53.15	56.84	3	Vertical	251	1.00	-	32.12	7.31	38.62			
PK	5.875G	55.92	105.20	-49.28	55.03	3	Vertical	251	1.00	-	32.20	7.31	38.62			
PK	5.925G	55.51	68.20	-12.69	54.50	3	Vertical	251	1.00	-	32.30	7.33	38.62			
AV	11.65G	42.00	54.00	-12.00	34.49	3	Vertical	227	1.00	-	39.20	10.42	42.11			
PK	11.65G	54.81	74.00	-19.19	47.30	3	Vertical	227	1.00	-	39.20	10.42	42.11			
PK	17.475G	58.47	68.20	-9.73	51.46	3	Vertical	103	1.00	-	40.75	12.93	46.67			

Frequency: 5200 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	0.07	0.20	0.20	0.27
T20°C Vmin	-0.01	0.10	0.11	0.16
T60°C Vnom	0.24	0.29	0.34	0.36
T50°C Vnom	0.19	0.25	0.30	0.32
T40°C Vnom	0.14	0.21	0.26	0.29
T30°C Vnom	0.06	0.14	0.23	0.25
T20°C Vnom	0.02	0.11	0.18	0.21
T10°C Vnom	0.04	0.08	0.11	0.13
T0°C Vnom	0.07	0.00	-0.05	-0.07
T-10°C Vnom	0.11	-0.05	-0.17	-0.21
T-20°C Vnom	0.18	-0.13	-0.42	-0.55
Vnom [V]: 12	Vmax [V]: 16		Vmin [V]: 10	
Tnom [°C]: 20	Tmax [°C]: 60		Tmin [°C]: -20	

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	0.03	0.17	0.19	0.21
T20°C Vmin	0.00	0.02	0.13	0.14
T60°C Vnom	0.23	0.28	0.32	0.34
T50°C Vnom	0.17	0.23	0.29	0.31
T40°C Vnom	0.14	0.20	0.25	0.28
T30°C Vnom	0.08	0.13	0.20	0.23
T20°C Vnom	0.02	0.09	0.16	0.19
T10°C Vnom	0.04	0.06	0.09	0.10
T0°C Vnom	0.09	0.02	-0.04	-0.06
T-10°C Vnom	0.12	-0.03	-0.15	-0.20
T-20°C Vnom	0.18	-0.14	-0.43	-0.51
Vnom [V]: 12	Vmax [V]: 16		Vmin [V]: 10	
Tnom [°C]: 20	Tmax [°C]: 60		Tmin [°C]: -20	