



RADIO TEST REPORT

FCC ID : RAXAIOS7
Equipment : HEOS 7.0 Platform Module, HEOS 7.0 Platform Module Type DH
Brand Name : Arcadyan
Model Name : WN9722OAX22-DM (AIOS7.0), WN9722HAX22-DM (AIOS7.0-DH)
Applicant : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd., Hsinchu, 30071 Taiwan
Manufacturer : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd., Hsinchu, 30071 Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 19, 2024, and testing was started from Mar. 25, 2024 and completed on Jun. 26, 2025. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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



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History of this test report

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

Page Number : 3 of 35
Issued Date : Jul. 17, 2025
Report Version : 01



Summary of Test Result

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

Note: Reference to Sporton Project No.: 320110-03

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Sam Chen

Report Producer: Vicky Huang

1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

Set	Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)			
							2.4GHz	5GHz	6GHz	Bluetooth
1	1	1	WIESON	ARY196-0383-005-00	Dipole Antenna	I-PEX	-	-	-	2.1
	2	1	WIESON	ARY196-0383-006-00	Dipole Antenna	I-PEX	2.2	2.7	2.8	-
	3	2	WIESON	ARY196-0383-007-00	Dipole Antenna	I-PEX	1.7	1.6	1.7	-
2	1	1	WIESON	ARY196-0383-008-00	Dipole Antenna	I-PEX	-	-	-	1.7
	2	1	WIESON	ARY196-0383-009-00	Dipole Antenna	I-PEX	2.0	2.2	2.3	-
	3	2	WIESON	ARY196-0383-010-00	Dipole Antenna	I-PEX	1.1	1.0	0.9	-
3	1	1	WIESON	ARY196-0383-034-H0	PCB Antenna	I-PEX	-	-	-	2.84
	2	1	WIESON	ARY196-0383-035-H0	PCB Antenna	I-PEX	2.8	3.82	4.16	-
	3	2	WIESON	ARY196-0383-036-H0	PCB Antenna	I-PEX	2.66	3.78	4.23	-
4	1	1	WIESON	ARY196-0383-039-H0	PCB Antenna	I-PEX	-	-	-	2.75
	2	1	WIESON	ARY196-0383-037-H0	PCB Antenna	I-PEX	2.14	2.18	2.26	-
	3	2	WIESON	ARY196-0383-038-H0	PCB Antenna	I-PEX	2.54	3.38	3.75	-
5	1	1	WIESON	ARY196-0383-042-H0	PCB Antenna	I-PEX	-	-	-	1.82
	2	1	WIESON	ARY196-0383-040-H0	PCB Antenna	I-PEX	1.97	1.9	2.46	-
	3	2	WIESON	ARY196-0383-041-H0	PCB Antenna	I-PEX	1.15	2.85	3.5	-
6	1	1	INPAQ	WA-P-LA-01-106	PCB Antenna	I-PEX	-	-	-	2.98
	2	1	INPAQ	WA-P-LE-03-039	PCB Antenna	I-PEX	2.74	3.42	3.67	-
	3	2	INPAQ	WA-P-LE-02-353	PCB Antenna	I-PEX	4.78	5.45	4.64	-



7	1	1	INPAQ	WA-P-LA-01-107	PCB Antenna	I-PEX	-	-	-	3.4
	2	1	INPAQ	WA-P-LE-02-378	PCB Antenna	I-PEX	3.36	2.39	2.62	-
	3	2	INPAQ	WA-P-LE-03-041	PCB Antenna	I-PEX	2.53	5.87	4.69	-
8	1	1	INPAQ	WA-P-LA-01-108	PCB Antenna	I-PEX	-	-	-	3.04
	2	1	INPAQ	WA-P-LE-02-380	PCB Antenna	I-PEX	5.46	5.75	7.1	-
	3	2	INPAQ	WA-P-LE-03-042	PCB Antenna	I-PEX	5.41	6.09	6.67	-

Note1: The above information was declared by manufacturer.

Note2: The EUT has eight sets of antennas and there are three antennas for each set.

For EUT 1~2:

Set 1~2 are the same type antenna.

Only the highest gain Set 1 antenna was selected to test and record in original report.

For EUT 3:

Set 3~8 are the same type antenna.

Only the highest gain Set 8 antenna for WLAN and Set 7 antenna for Bluetooth was selected to test and record in this report.

Note3: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ant}} \left(\sum_{k=1}^{N_{ant}} g_{j,k} \right)^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ant}} \left(\sum_{k=1}^{N_{ant}} g_{j,k} \right)^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ant}} \left(\sum_{k=1}^{N_{ant}} g_{j,k} \right)^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ant}} \left(\sum_{k=1}^{N_{ant}} g_{j,k} \right)^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

For Set 1~2:

2.4G G1= 2.2 dBi; G2= 1.7 dBi; DG= 4.96dBi

5G G1= 2.7 dBi; G2= 1.6 dBi; DG= 5.18dBi

6G G1= 2.8 dBi; G2= 1.7 dBi; DG= 5.28dBi

For Set 3~8:

2.4G G1= 5.46 dBi; G2= 5.41 dBi; DG = 8.45 dBi

5G G1 = 5.75 dBi; G2 = 6.09 dBi; DG = 8.93 dBi

For 2.4GHz function:

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

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

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

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11ax (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For Bluetooth function (1TX/1RX):

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

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11b_Nss 1,(1D)	0.917	0.38	8.385m	200
802.11g_Nss 1,(6D)	0.689	1.62	1.393m	1k
802.11ax HEW20_Nss 1,(M0)	0.733	1.35	1.966m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	Form host system			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	DOS [ver 6.1.7601]			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT Information

The EUTs are identical to each other in all aspects except for the following table:

EUT	Equipment Name	Model Name	GPIO Source	The Material of the Shielded Case	Set Ant.
1	HEOS 7.0 Platform Module	WN9722OAX22-DM (AIO57.0)	Main	Tinplate	1~2
2				Stainless steel	1~2
3	HEOS 7.0 Platform Module Type DH	WN9722HAX22-DM (AIO57.0-DH)	Second	Stainless steel	3~8

Note1: From the above, EUT 3 has selected to execute all test items and EUT 2 has selected to execute the Emissions in Restricted Frequency Bands below 1GHz and Emissions in Restricted Frequency Bands above 1GHz-11b 2412 MHz tests.

Note2: The above information was declared by manufacturer.

1.1.6 Source Table

Source		Main	Second
Item			
GPIO		-	Disconnect one of its GPIO6 pins and route GPIO3 to the pin out instead, with corresponding changes made to the layout.

Note: The above information was declared by manufacturer.



1.1.7 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR320110AA

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

Modifications	Performance Checking
1. Adding the EUT 2 (Please refer to section 1.1.5 for detailed information)	1. Emissions in Restricted Frequency Bands below 1GHz 2. 11b 2412 MHz generated the worst case from original, thus only test 11b 2412 MHz for below item: Emissions in Restricted Frequency Bands above 1GHz.
2. Adding the EUT 3 (Equipment Name: HEOS 7.0 Platform Module Type DH / Model Name: WN9722HAX22-DM (AIO57.0-DH)) (Please refer to section 1.1.5 for detailed information) 3. Adding the Set 3~8 antenna for EUT 3 use (Please refer to section 1.1.2 and section 1.1.5 for detailed information)	1. AC Power-line Conducted Emissions 2. DTS Bandwidth 3. Maximum Conducted Output Power 4. Power Spectral Density 5. Emissions in Non-restricted Frequency Bands 6. Emissions in Restricted Frequency Bands(Based on original output power to test excepting 11b 2412/2462 MHz, 11g 2462 MHz, 11ax HEW20 2412/2462 MHz). (For above item 2~5: After evaluating, only 11b 2412/2462 MHz, 11g 2462 MHz, 11ax HEW20 2412/2462 MHz need to be retested.)



1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Ken Yeh	21~22.7 / 60~63	Apr. 21, 2025~ Jun. 25, 2025
Radiated (Below 1GHz- Test Mode: Mode 1)	03CH05-CB	Roy Mai	21.9-22.4 / 55-58	Mar. 25, 2024
Radiated (Below 1GHz- Test Mode: Mode 2~4)	03CH03-CB	Edmund Tsai	21.6~23.1 / 58~62	Apr. 24, 2025
Radiated (Above 1GHz- Test Mode: Mode 1)	03CH05-CB	Jackson Peng	21.9-22.4 / 55-58	Mar. 26, 2024~ Mar. 28, 2024
	03CH06-CB	Jackson Peng	21.4-22.5 / 55-58	
Radiated (Above 1GHz- Test Mode: Mode 2)	03CH06-CB	Stim Sung	22.5-22.9 / 58-60	Apr. 29, 2025~ Jun. 26, 2025
AC Conduction	CO01-CB	Tim Chen	20~21 / 58~60	Apr. 29, 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))

For Radiated(Below 1GHz-Test Mode: Mode 1) and Radiated(Above 1GHz-Test Mode: Mode 1)

Test Items	Uncertainty	Remark
Radiated Emission (9kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%

For other tests:

Test Date: Before May 28, 2025

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.1 %	Confidence levels of 95%

Test Date: After May 27, 2025

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.0 dB	Confidence levels of 95%
Bandwidth Measurement	1.0 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
802.11b_Nss1,(1Mbps)_2TX
2412MHz
2462MHz
802.11g_Nss1,(6Mbps)_2TX
2462MHz
802.11ax HEW20_Nss1,(MCS0)_2TX
2412MHz
2462MHz

Note:

- ♦ Evaluated HEW20/HEW40 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT 3 + 2.4GHz with antenna set 8 + Bluetooth with antenna set 7
2	EUT 3 + 5GHz with antenna set 8 + Bluetooth with antenna set 7
3	EUT 3 + 6GHz with antenna set 8 + Bluetooth with antenna set 7
For operating mode 3 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
1	EUT 3 (Test 11b 2412/2462 MHz, 11g 2462 MHz, 11ax HEW20 2412/2462 MHz)

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1. After evaluating, the worst case was found at Y axis, thus the measurement will follow this same test configuration. 2. For mode 1: There are three modes of EUT: 2.4GHz + Bluetooth, 5GHz + Bluetooth, and 6GHz + Bluetooth. 2.4GHz + Bluetooth mode has been evaluated to be the worst case after evaluating. So the measurement will follow this same test configuration.	
1	EUT 2 at Y axis with antenna set 1 + 2.4GHz + Bluetooth
2	EUT 3 at Y axis + 2.4GHz with antenna set 8 + Bluetooth with antenna set 7
3	EUT 3 at Y axis + 5GHz with antenna set 8 + Bluetooth with antenna set 7
4	EUT 3 at Y axis + 6GHz with antenna set 8 + Bluetooth with antenna set 7
For operating mode 1 is the worst case and it was record in this test report.	



Operating Mode > 1GHz	CTX
After evaluating, and the worst case was found as below. So the measurement will follow this same test configuration.	
1	EUT 2 at X axis with antenna set 1 + 2.4GHz (only 11b 2412 MHz test)
2	EUT 3 with antenna set 8 + 2.4GHz (Bandedge in Z axis) / (Harmonic in X axis)

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 1-WLAN 2.4GHz + Bluetooth
2	EUT 1-WLAN 5GHz + Bluetooth
3	EUT 1-WLAN 6GHz + Bluetooth
4	EUT 3-WLAN 2.4GHz + Bluetooth
5	EUT 3-WLAN 5GHz + Bluetooth
6	EUT 3-WLAN 6GHz + Bluetooth
Refer to Sporton Test Report No.: FA320110-06 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Test Fixture	Arcadyan	N0IDM9922001J	N/A
B	LAN PC	ASUS	S300TA	TX2-RTL8821CE
C	Wireless Connectivity Tester	R&S	CMW270	N/A
D	AP Router	ASUS	GT-AXE16000	MSQ-RTAX5D00
E	AP PC	ASUS	S300TA	TX2-RTL8821CE
F	Test Fixture	MASIMO HEOS	AIOS7 LPP	N/A
G	AC Adapter	APD	WA-30P12FU	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Test Fixture	Arcadyan	N0IDM9922001J	N/A
B	NB	DELL	E4300	N/A
C	BT Test Set	Anritsu	MT8852B	N/A
D	WLAN AP	ASUS	RT-AX88U	N/A
E	NB	DELL	E4300	N/A
F	Test Fixture	MASIMO HEOS	AIOS7 LPP	N/A

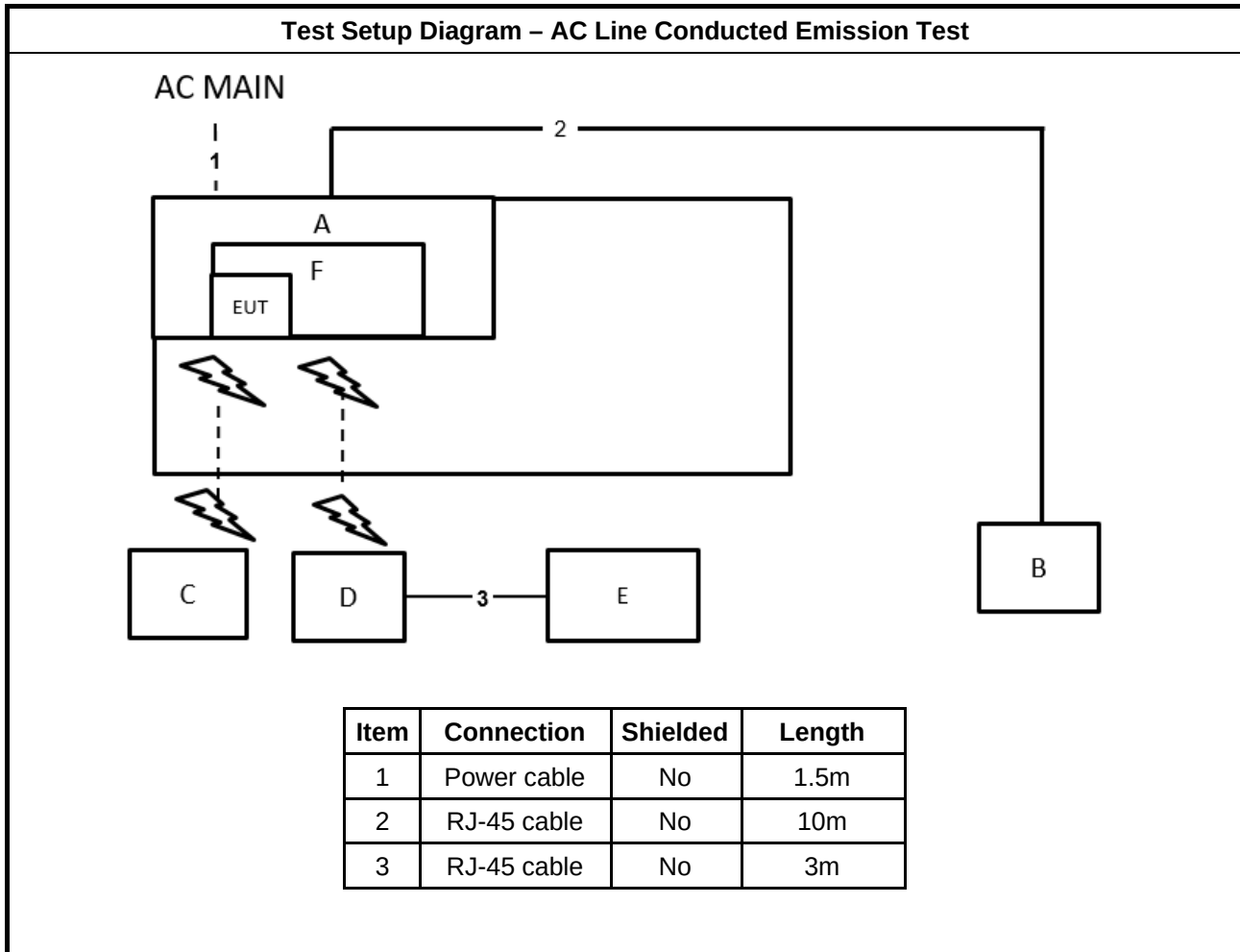
For Radiated (above 1GHz):

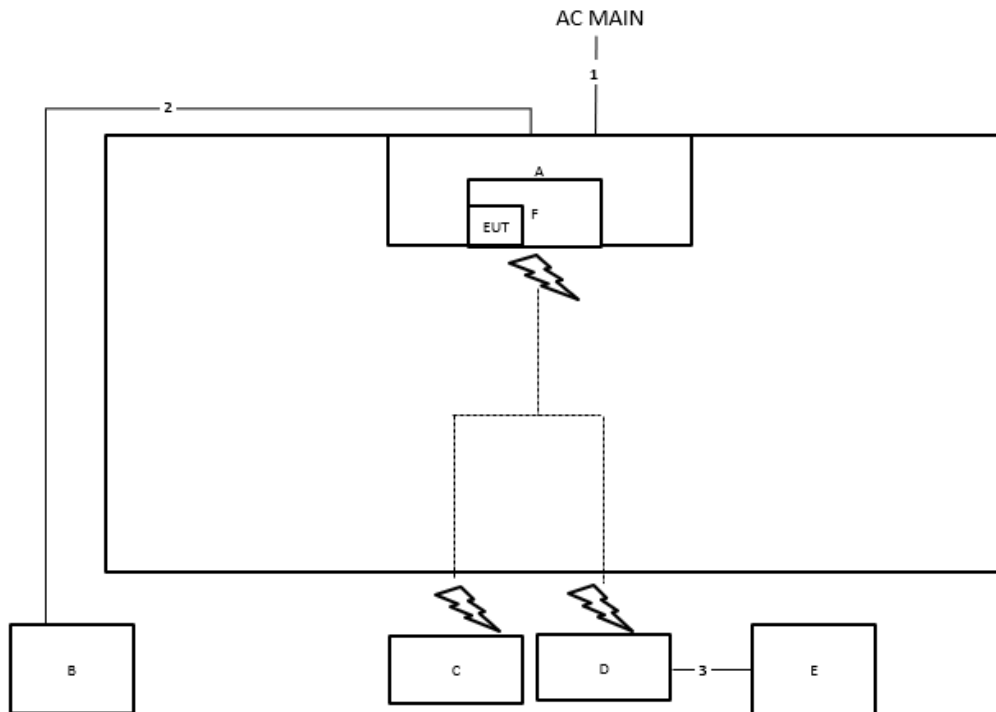
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Test Fixture	Arcadyan	N0IDM9922001J	N/A
C	Test Fixture	MASIMO HEOS	AIOS7 LPP	N/A

For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Test Fixture	MASIMO HEOS	AIOS7 LPP	N/A
C	Test Fixture	Arcadyan	N0IDM9922001J	N/A

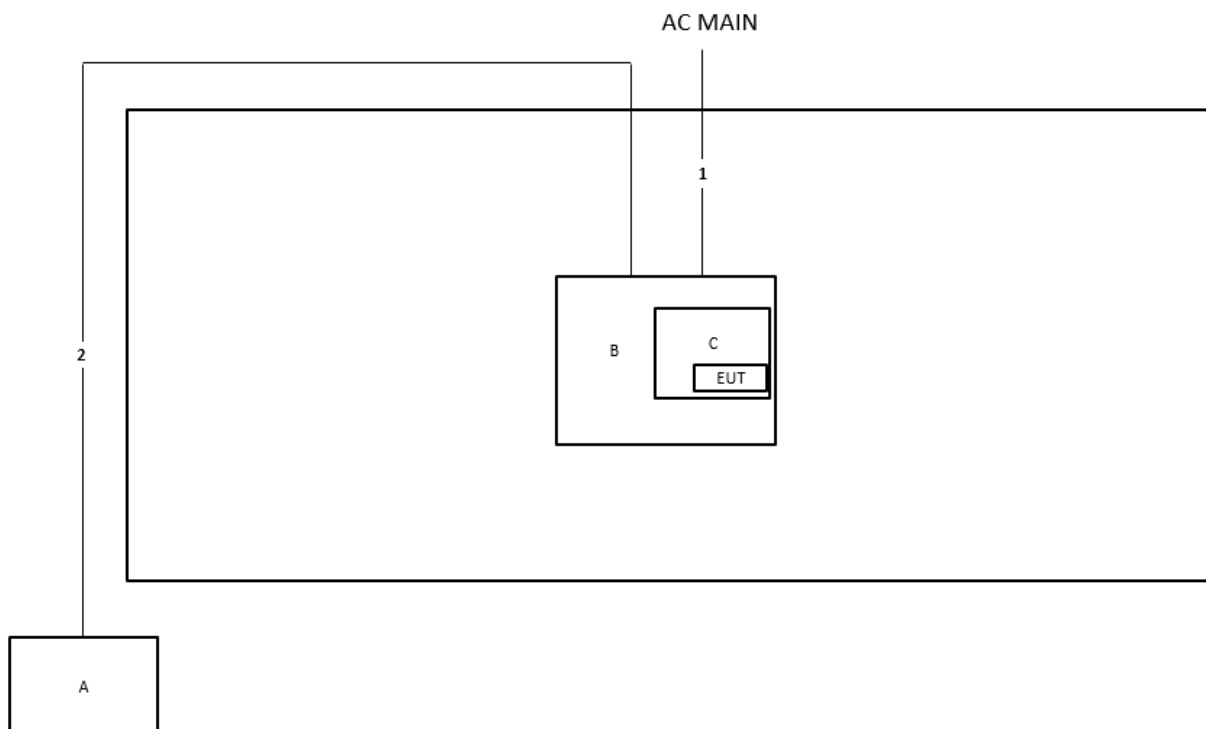
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

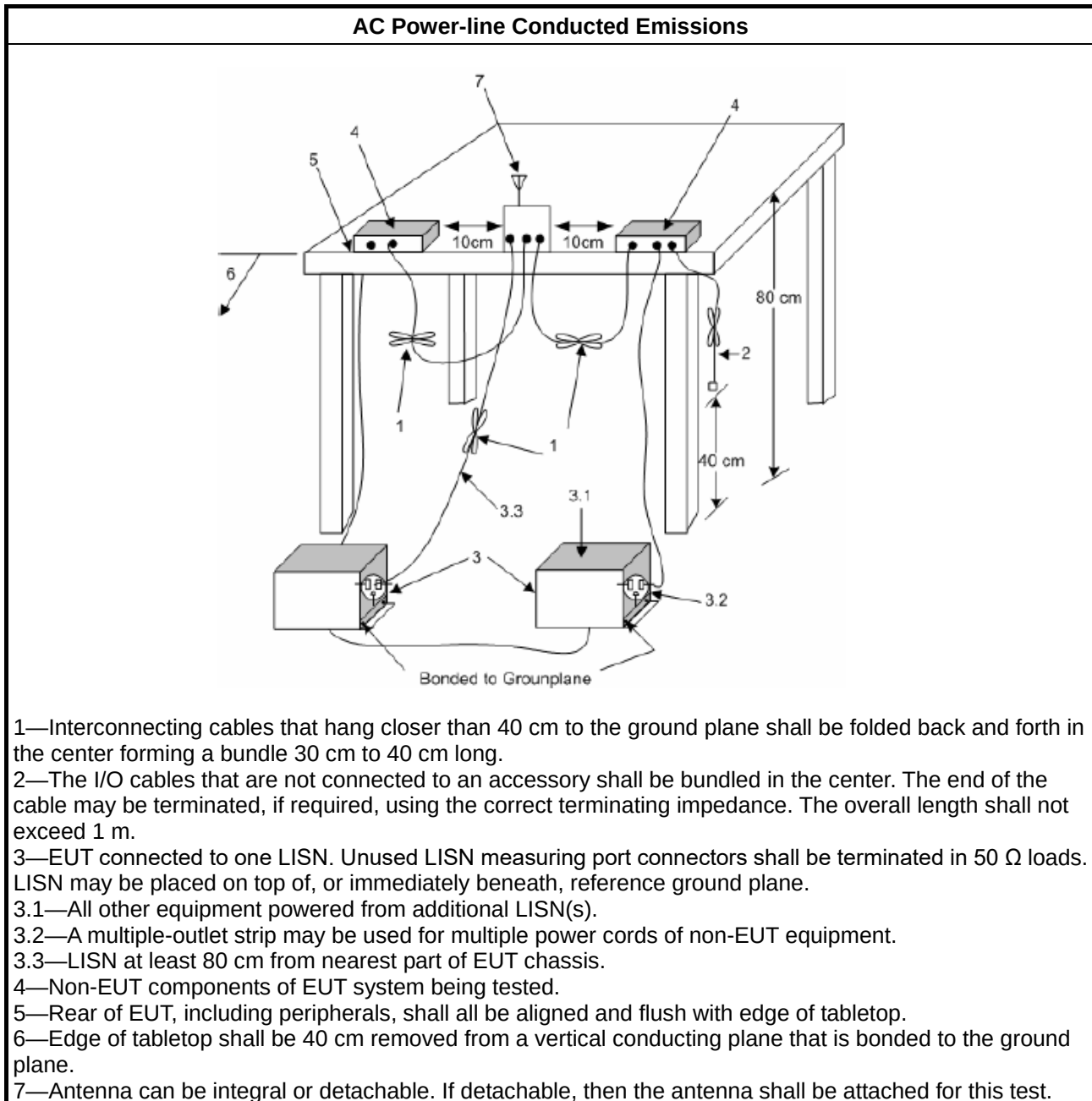
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
6 dB bandwidth $\geq$ 500 kHz.

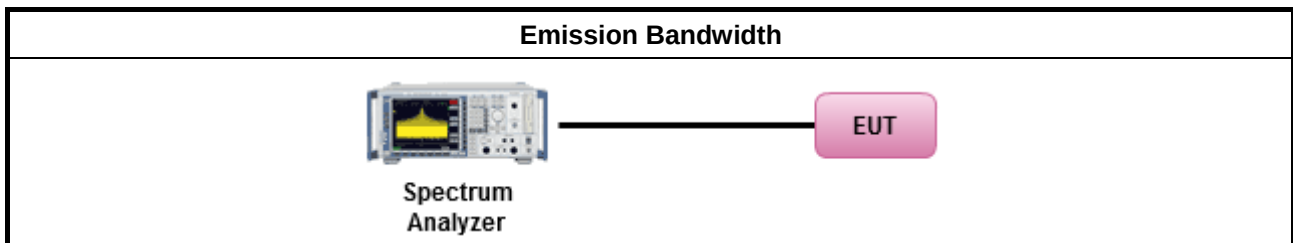
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit						
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)					
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm					
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm					
	▪ Smart antenna system (SAS):					
	<table> <tr> <td>-</td><td>Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm</td></tr> <tr> <td>-</td><td>Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm</td></tr> <tr> <td>-</td><td>Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm</td></tr> </table>	-	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	-
-	Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm					
-	Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm					
-	Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm					
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.						

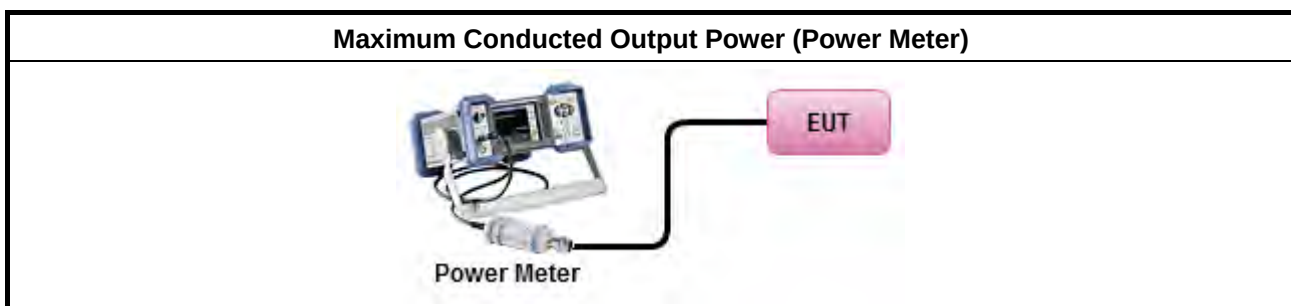
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup





3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

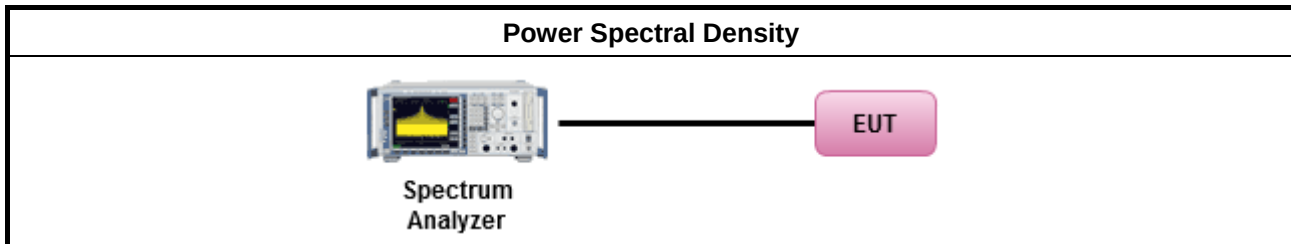
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

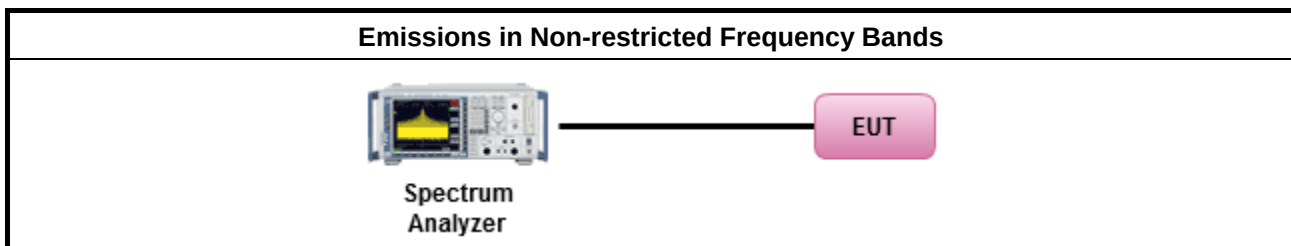
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

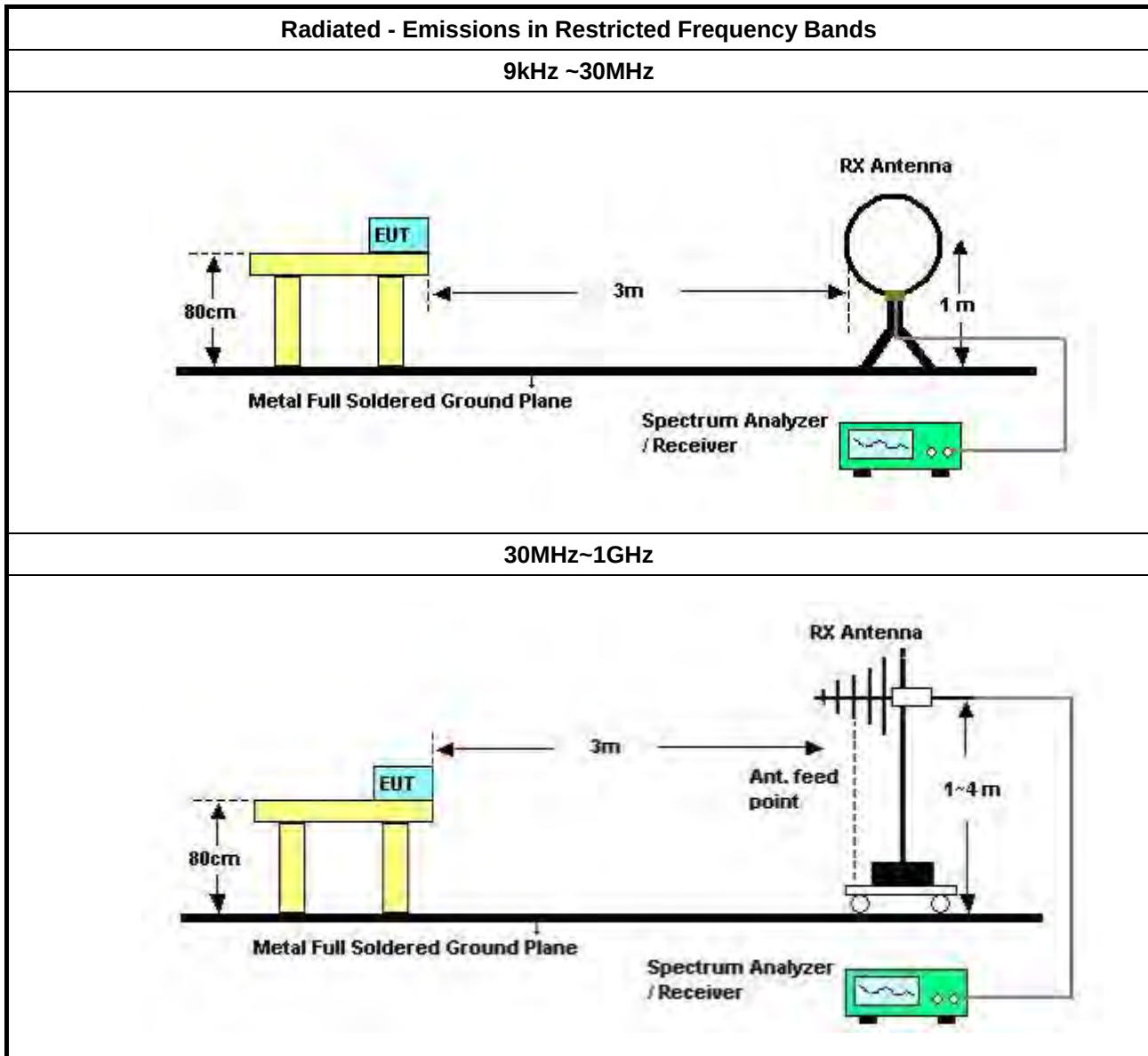
Refer a test equipment and calibration data table in this test report.

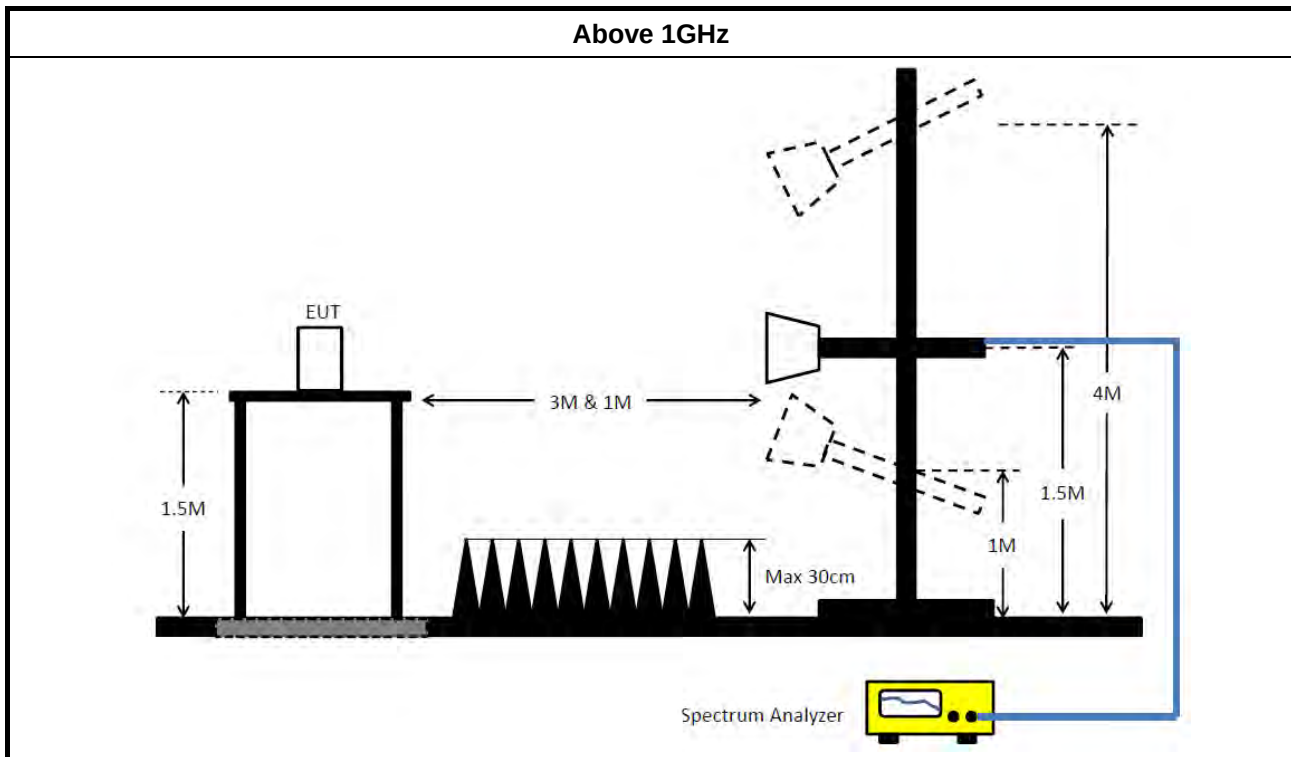


3.6.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 06, 2025	Mar. 05, 2026	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-5 0-16-2	04083	150kHz ~ 100MHz	Feb. 18, 2025	Feb. 17, 2026	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Feb. 06, 2025	Feb. 05, 2026	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	CO01	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 02, 2023	Aug. 01, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Sep. 29, 2023	Sep. 28, 2024	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCi	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 23, 2024	Mar. 22, 2025	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120 D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 08, 2023	Jun. 07, 2024	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 03, 2023	May 02, 2024	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630 SE	980287	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE-152 47_DTS	V5.11.23	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 08, 2024	Oct. 07, 2025	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120 D	BBHA 9120D-1292	1GHz~18GHz	Jul. 31, 2023	Jul. 30, 2024	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120 D	BBHA 9120D-1292	1GHz~18GHz	Jul. 29, 2024	Jul. 28, 2025	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 17, 2024	May 16, 2025	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 16, 2025	May 15, 2026	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 21, 2023	Apr. 20, 2024	Radiation (03CH06-CB)
Signal analyzer	R&S	FSV3044	101667	9kHz~44GHz	Aug. 20, 2024	Aug. 19, 2025	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE-152 47_DTS	V5.11.23	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 17, 2024	Oct. 16, 2025	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30MHz ~ 1 GHz	Jan. 17, 2025	Jan. 16, 2026	Radiation (03CH03-CB)
Bilog Antenna with 6dB Attenuator	Schaffner & EMC	CBL6112B& N-6-06	2888&AT-N060 5	30MHz ~ 1GHz	Jan. 17, 2025	Jan. 16, 2026	Radiation (03CH03-CB)
Amplifier	SGH	SGH301	20240606-1	30MHz ~ 1GHz	Jun. 04, 2024	Jun. 03, 2025	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 11, 2024	Jun. 10, 2025	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 21, 2024	Oct. 20, 2025	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 02, 2025	Jan. 01, 2026	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1~18GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH03-CB)
Test Software	SPORTON	SENSE-152 47_DTS	V5.11.23	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

NCR means Non-Calibration required.



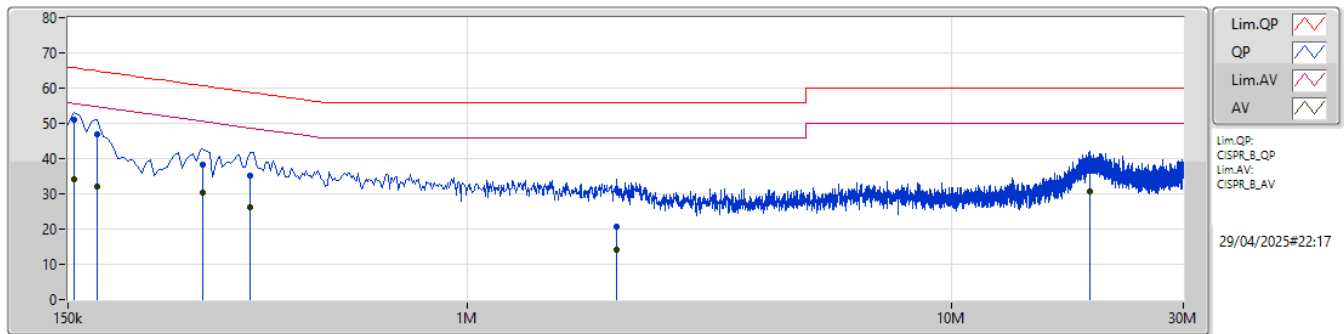
Conducted Emissions at Powerline

Appendix A

Summary

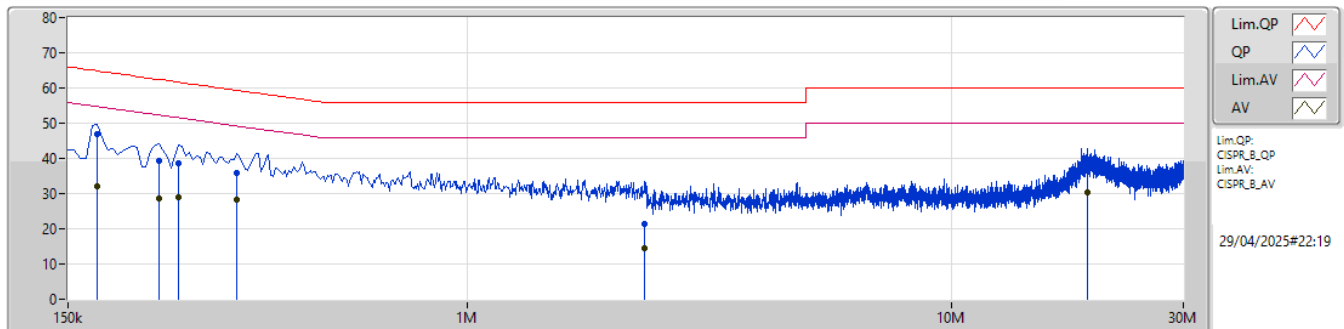
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	QP	154.5k	50.98	65.75	-14.77	Line

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	154.5k	50.98	65.75	-14.77	10.04	Line	"Worst"	40.94	0.04	0.08	9.92						
AV	154.5k	34.01	55.75	-21.74	10.04	Line	-	23.97	0.04	0.08	9.92						
QP	172.5k	46.86	64.83	-17.97	10.04	Line	-	36.82	0.04	0.07	9.93						
AV	172.5k	32.23	54.83	-22.60	10.04	Line	-	22.19	0.04	0.07	9.93						
QP	285k	38.23	60.67	-22.44	10.14	Line	-	28.09	0.04	0.09	10.01						
AV	285k	30.21	50.67	-20.46	10.14	Line	-	20.07	0.04	0.09	10.01						
QP	357k	35.10	58.79	-23.69	10.18	Line	-	24.92	0.04	0.10	10.04						
AV	357k	26.27	48.79	-22.52	10.18	Line	-	16.09	0.04	0.10	10.04						
QP	2.031M	20.79	56.00	-35.21	10.18	Line	-	10.61	0.09	0.14	9.95						
AV	2.031M	14.03	46.00	-31.97	10.18	Line	-	3.85	0.09	0.14	9.95						
QP	19.262M	37.39	60.00	-22.61	10.57	Line	-	26.82	0.31	0.32	9.94						
AV	19.262M	30.53	50.00	-19.47	10.57	Line	-	19.96	0.31	0.32	9.94						

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	172.5k	46.86	64.83	-17.97	10.04	Neutral	"Worst"	36.82	0.04	0.07	9.93						
AV	172.5k	32.24	54.83	-22.59	10.04	Neutral	-	22.20	0.04	0.07	9.93						
QP	231k	39.32	62.41	-23.09	10.09	Neutral	-	29.23	0.04	0.08	9.97						
AV	231k	28.61	52.41	-23.80	10.09	Neutral	-	18.52	0.04	0.08	9.97						
QP	253.5k	38.51	61.64	-23.13	10.11	Neutral	-	28.40	0.04	0.08	9.99						
AV	253.5k	29.01	51.64	-22.63	10.11	Neutral	-	18.90	0.04	0.08	9.99						
QP	334.5k	35.71	59.35	-23.64	10.16	Neutral	-	25.55	0.04	0.09	10.03						
AV	334.5k	28.12	49.35	-21.23	10.16	Neutral	-	17.96	0.04	0.09	10.03						
QP	2.324M	21.48	56.00	-34.52	10.15	Neutral	-	11.33	0.07	0.14	9.94						
AV	2.324M	14.56	46.00	-31.44	10.15	Neutral	-	4.41	0.07	0.14	9.94						
QP	18.987M	37.31	60.00	-22.69	10.58	Neutral	-	26.73	0.33	0.31	9.94						
AV	18.987M	30.39	50.00	-19.61	10.58	Neutral	-	19.81	0.33	0.31	9.94						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.075M	12.539M	12M5G1D	7.05M	12.327M
802.11g_Nss1,(6Mbps)_2TX	16.375M	16.729M	16M7D1D	15.925M	16.61M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.1M	18.923M	18M9D1D	15.1M	18.793M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.05M	12.489M	8.075M	12.539M
2462MHz	Pass	500k	7.55M	12.327M	8.075M	12.347M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2462MHz	Pass	500k	15.925M	16.729M	16.375M	16.61M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.1M	18.803M	16.1M	18.793M
2462MHz	Pass	500k	17.525M	18.923M	18.1M	18.857M

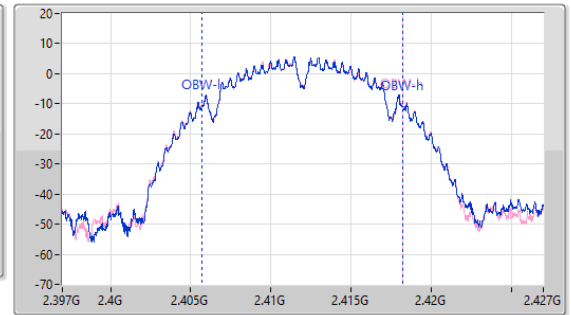
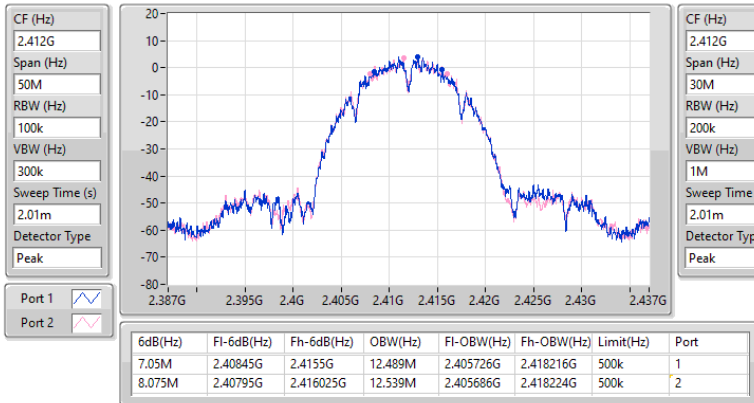
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

2412MHz

09/06/2025

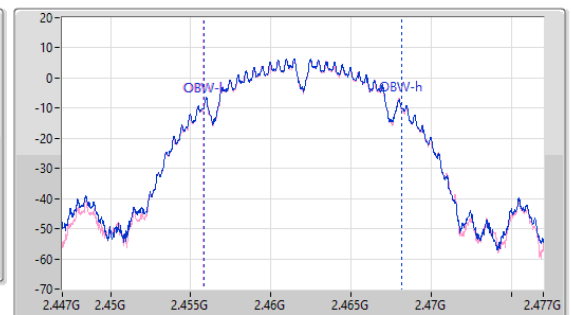
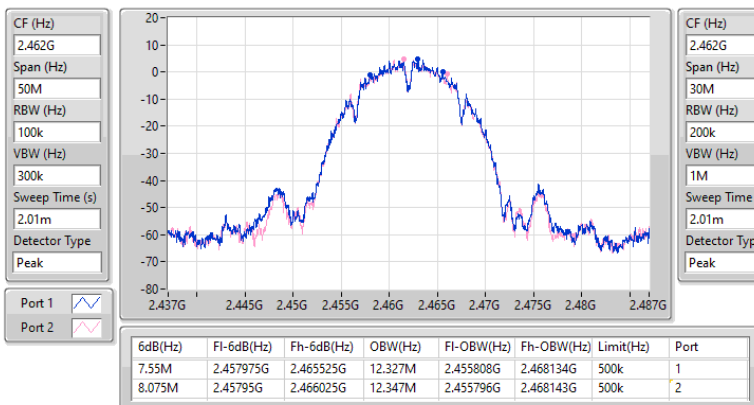


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

2462MHz

09/06/2025

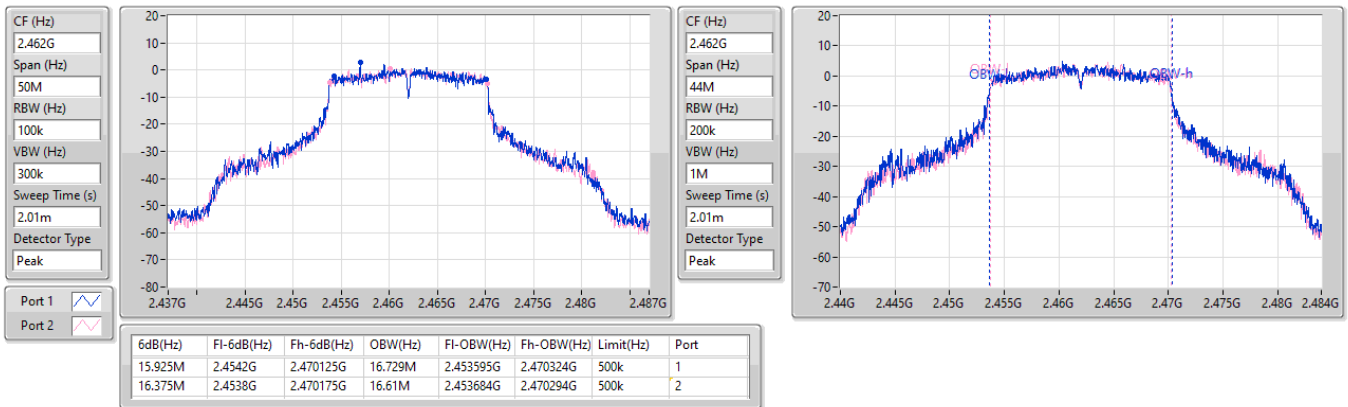


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2462MHz

09/06/2025

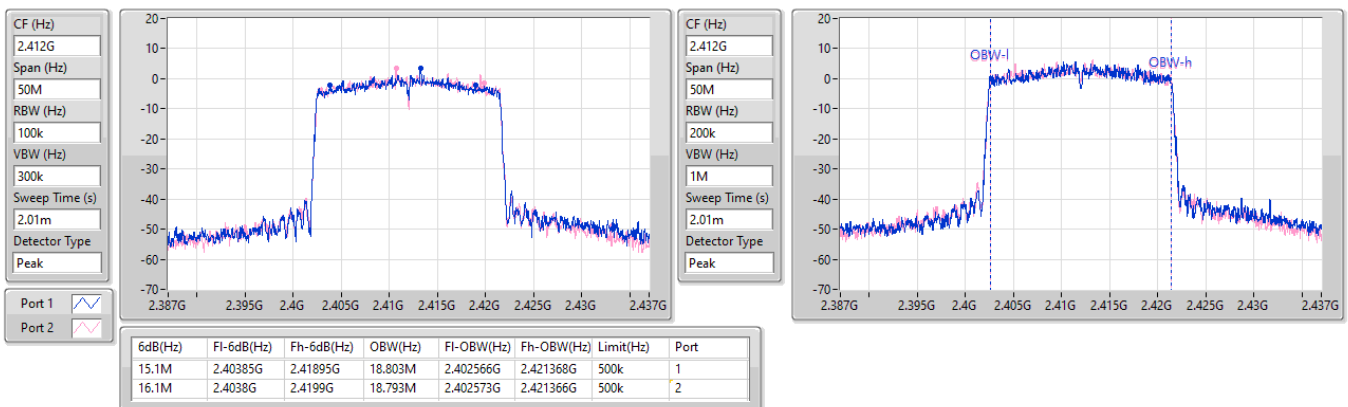


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

2412MHz

09/06/2025

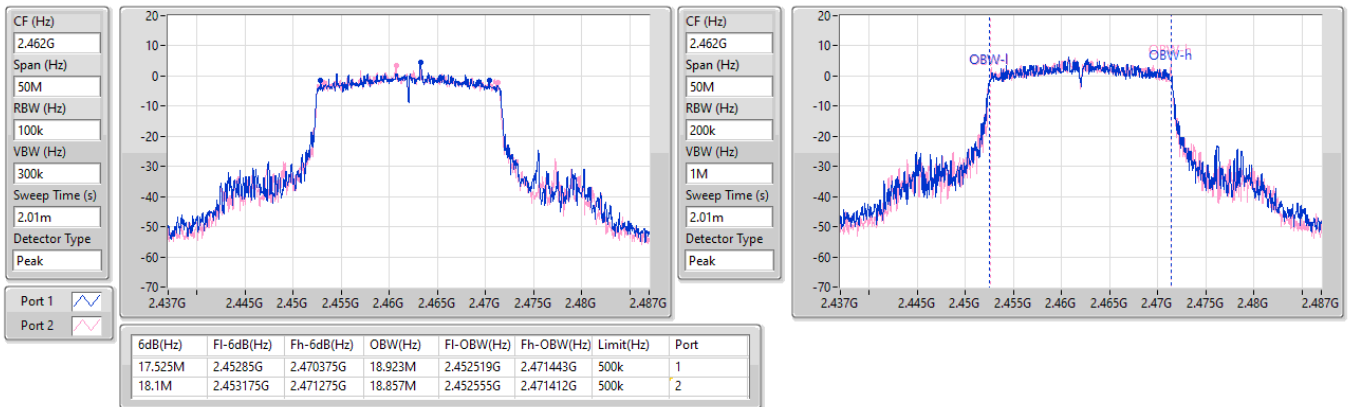


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

2462MHz

09/06/2025





Average Power

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	17.10	0.05129
802.11g_Nss1,(6Mbps)_2TX	17.69	0.05875
802.11ax HEW20_Nss1,(MCS0)_2TX	18.77	0.07534



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.46	13.36	13.51	16.45	30.00
2462MHz	Pass	5.46	14.17	14.01	17.10	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2462MHz	Pass	5.46	14.72	14.64	17.69	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.46	15.56	15.62	18.60	30.00
2462MHz	Pass	5.46	15.93	15.58	18.77	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-9.57
802.11g_Nss1,(6Mbps)_2TX	-10.20
802.11ax HEW20_Nss1,(MCS0)_2TX	-9.70

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.45	-11.51	-12.60	-10.42	5.55
2462MHz	Pass	8.45	-11.16	-11.42	-9.57	5.55
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2462MHz	Pass	8.45	-12.52	-12.90	-10.20	5.55
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.45	-11.79	-10.10	-9.70	5.55
2462MHz	Pass	8.45	-11.20	-10.20	-9.76	5.55

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

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

PSD

2412MHz

09/06/2025

CF (Hz)
2.412G

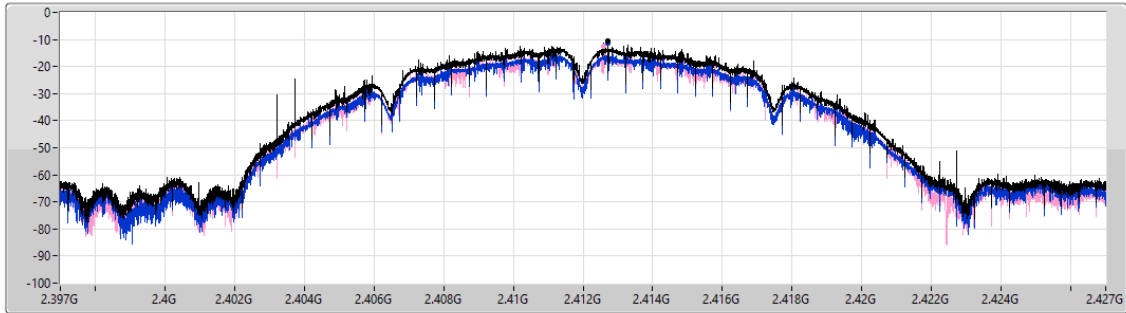
Span (Hz)
30M

RBW (Hz)
3k

VBW (Hz)
10k

Sweep Time (s)
334m

Detector Type
Peak



Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-10.42	-10.42	-11.51	-12.60

Sum ☒

Port 1 ☐

Port 2 ☐

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

PSD

2462MHz

09/06/2025

CF (Hz)
2.462G

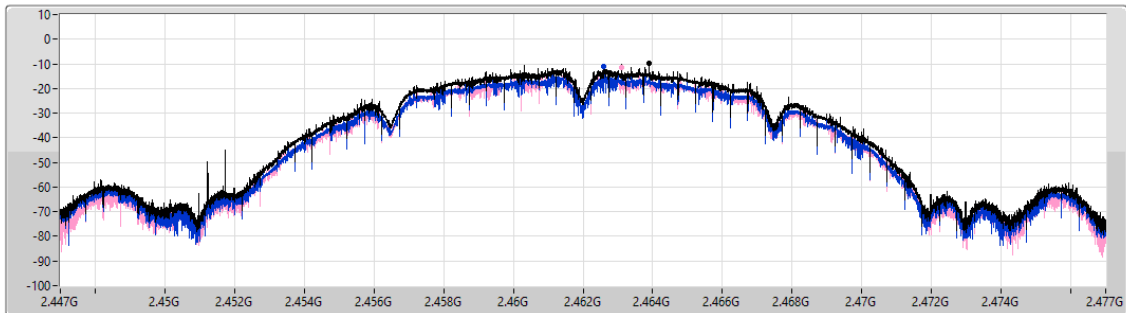
Span (Hz)
30M

RBW (Hz)
3k

VBW (Hz)
10k

Sweep Time (s)
334m

Detector Type
Peak



Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-9.57	-9.57	-11.16	-11.42

Sum ☒

Port 1 ☐

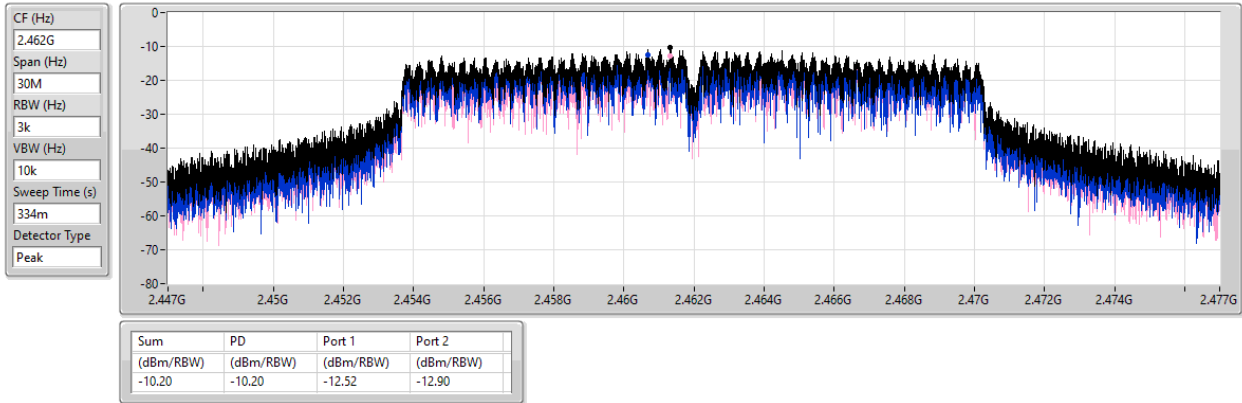
Port 2 ☐

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

PSD

2462MHz

09/06/2025

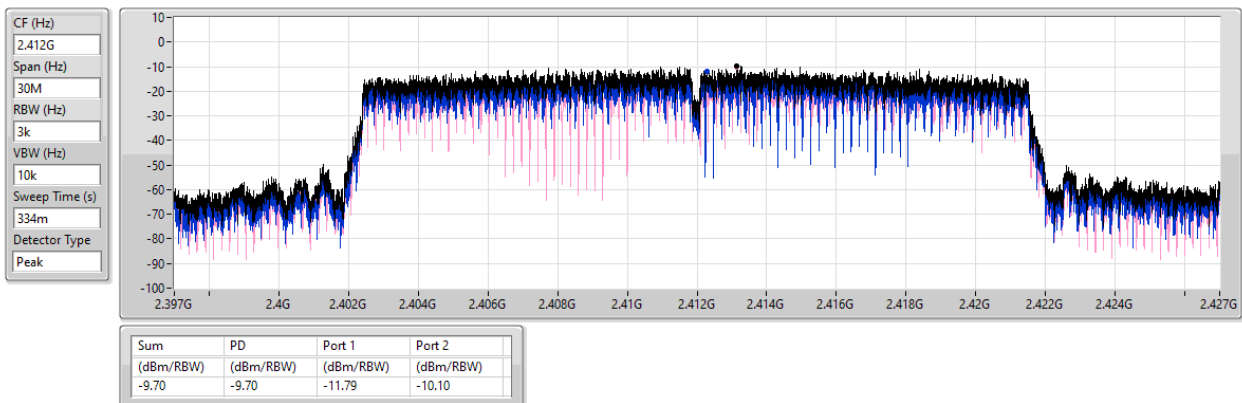


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

2412MHz

09/06/2025

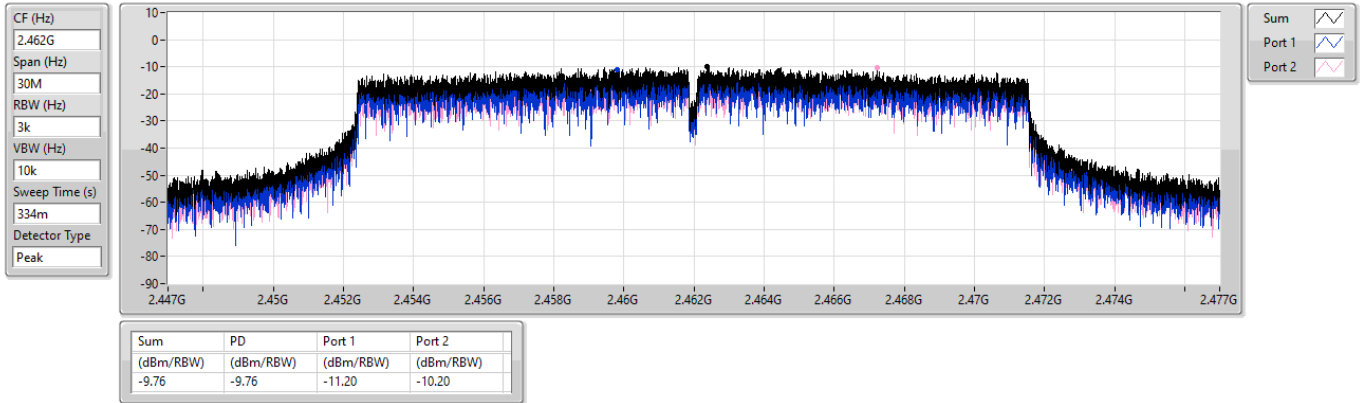


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

09/06/2025





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43741G	5.58	-24.42	2.16661G	-52.40	2.396G	-43.98	2.4G	-45.63	2.5187G	-51.24	21.49929G	-45.92	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.41319G	4.12	-25.88	2.13516G	-52.24	2.39952G	-47.38	2.4G	-50.04	2.51838G	-50.29	21.55548G	-44.40	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.43824G	5.16	-24.84	2.30292G	-52.74	2.39992G	-41.30	2.4G	-44.13	2.50718G	-50.60	21.65662G	-45.65	1

Result

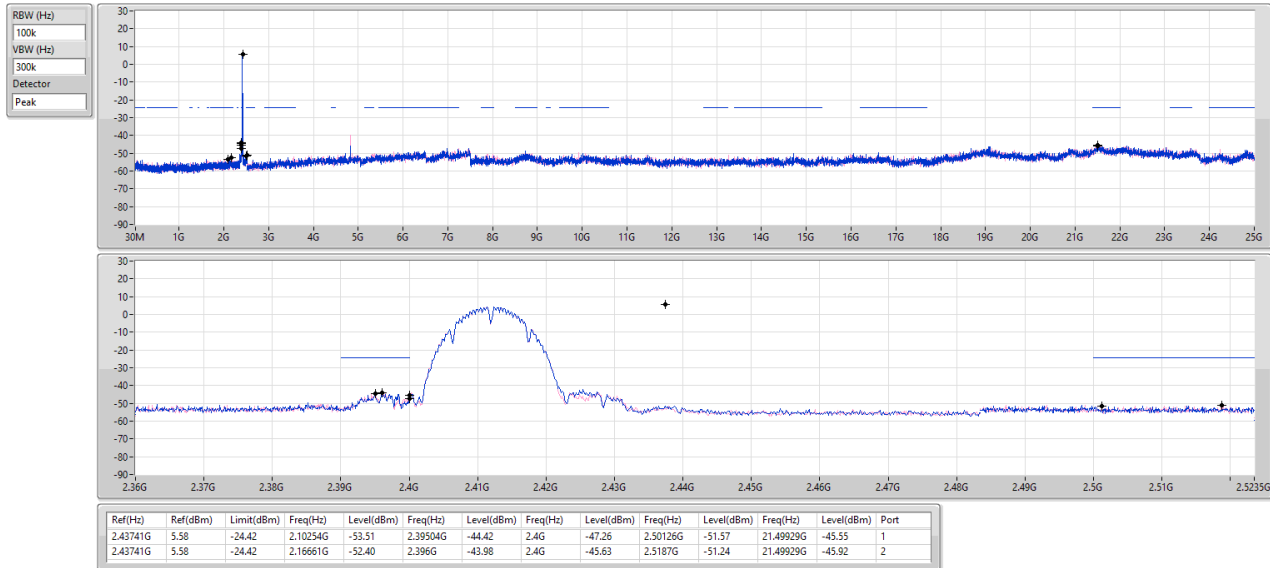
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1.(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43741G	5.58	-24.42	2.10254G	-53.51	2.39504G	-44.42	2.4G	-47.26	2.50126G	-51.57	21.49929G	-45.55	1
2412MHz	Pass	2.43741G	5.58	-24.42	2.16661G	-52.40	2.396G	-43.98	2.4G	-45.63	2.5187G	-51.24	21.49929G	-45.92	2
2462MHz	Pass	2.43741G	5.58	-24.42	1.75304G	-53.73	2.3924G	-51.18	2.4G	-54.80	2.52246G	-51.45	21.51895G	-45.34	1
2462MHz	Pass	2.43741G	5.58	-24.42	2.30059G	-52.88	2.39824G	-51.63	2.4G	-55.28	2.50414G	-51.71	21.48524G	-45.60	2
802.11g_Nss1.(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2462MHz	Pass	2.41319G	4.12	-25.88	2.13516G	-52.24	2.39952G	-47.38	2.4G	-50.04	2.51838G	-50.29	21.55548G	-44.40	1
2462MHz	Pass	2.41319G	4.12	-25.88	1.74022G	-53.31	2.39952G	-49.26	2.4G	-52.02	2.51294G	-50.46	21.6201G	-45.45	2
802.11ax HEW20_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	5.16	-24.84	2.30292G	-52.74	2.39992G	-41.30	2.4G	-44.13	2.50718G	-50.60	21.65662G	-45.65	1
2412MHz	Pass	2.43824G	5.16	-24.84	2.13865G	-53.35	2.39992G	-41.71	2.4G	-44.79	2.5231G	-50.97	21.49929G	-44.09	2
2462MHz	Pass	2.43824G	5.16	-24.84	2.30641G	-53.09	2.39688G	-48.15	2.4G	-51.01	2.50918G	-50.11	21.46276G	-44.24	1
2462MHz	Pass	2.43824G	5.16	-24.84	2.30292G	-50.51	2.39176G	-48.85	2.4G	-52.44	2.50174G	-49.77	21.86172G	-45.73	2

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

CSEndB

2412MHz

09/06/2025

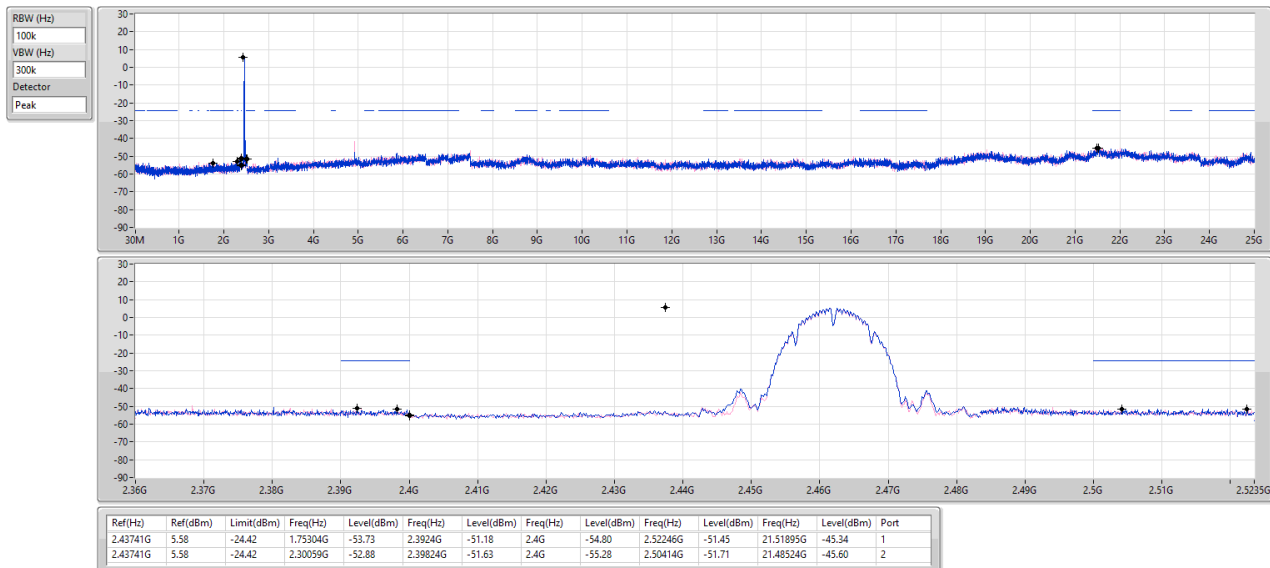


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2462MHz

09/06/2025

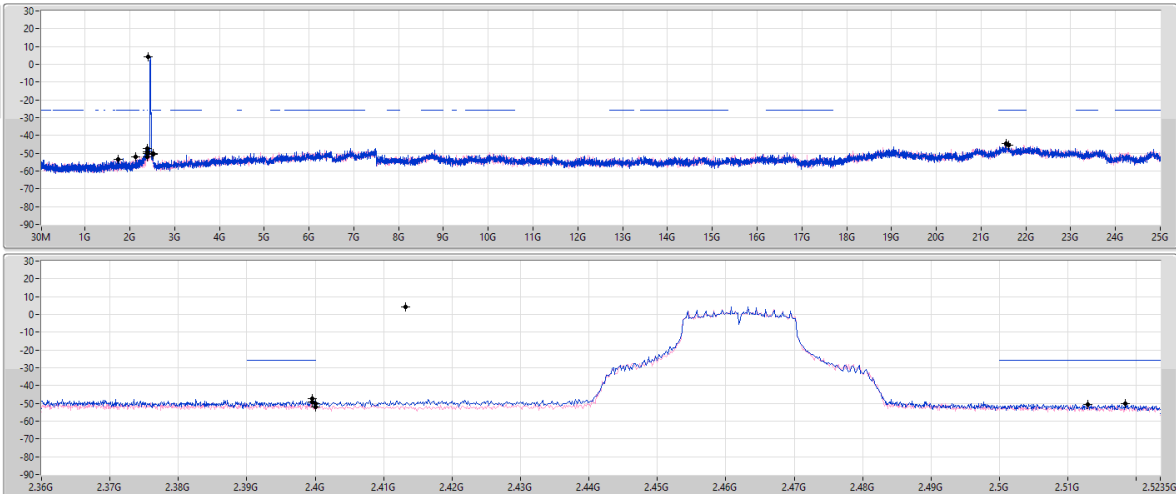


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

CSEndB

2462MHz

09/06/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

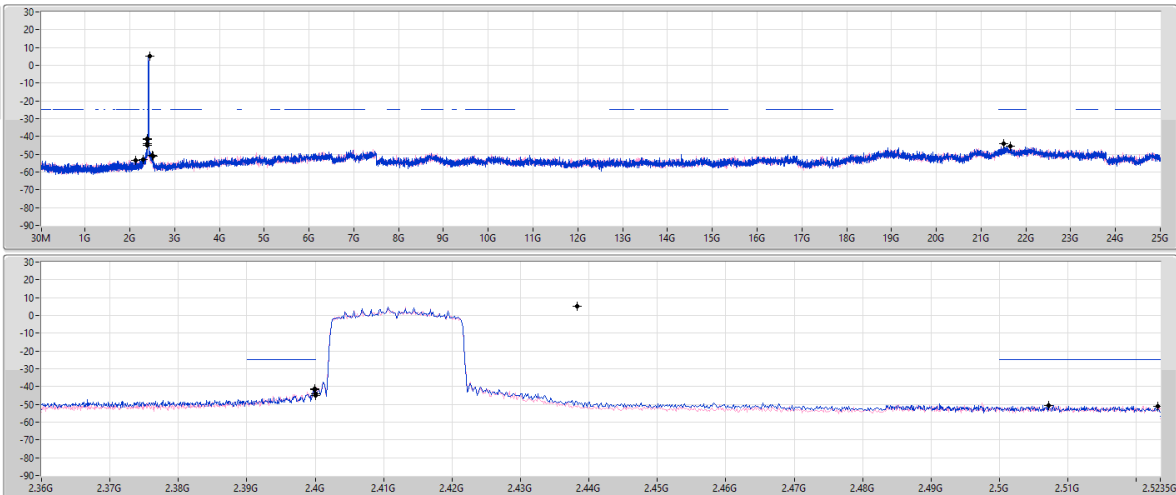
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41319G	4.12	-25.88	2.13516G	-52.24	2.39952G	-47.38	2.4G	-50.04	2.51838G	-50.29	2.155548G	-44.40	1
2.41319G	4.12	-25.88	1.74022G	-53.31	2.39952G	-49.26	2.4G	-52.02	2.51294G	-50.46	2.16201G	-45.45	2

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

CSEndB

2412MHz

09/06/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

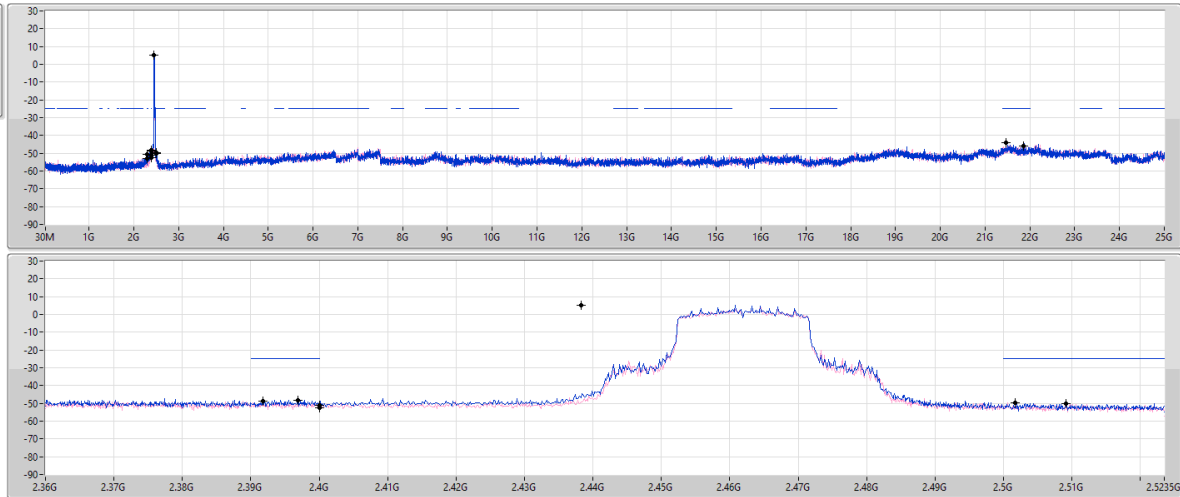
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43824G	5.16	-24.84	2.30292G	-52.74	2.39992G	-41.30	2.4G	-44.13	2.50718G	-50.60	2.16562G	-45.65	1
2.43824G	5.16	-24.84	2.13865G	-53.35	2.39992G	-41.71	2.4G	-44.79	2.5231G	-50.97	2.149929G	-44.09	2

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

CSEndB

2462MHz

09/06/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

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
2.43824G	5.16	-24.84	2.30641G	-53.09	2.39688G	-48.15	2.4G	-51.01	2.50918G	-50.11	2.46276G	-44.24	1
2.43824G	5.16	-24.84	2.30292G	-50.51	2.39176G	-48.85	2.4G	-52.44	2.50174G	-49.77	2.46172G	-45.73	2



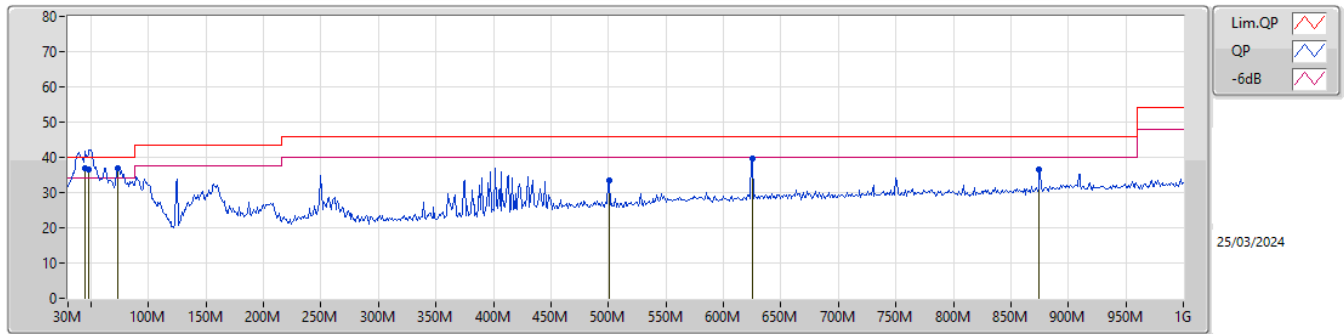
Radiated Emissions below 1GHz

Appendix F.1

Summary

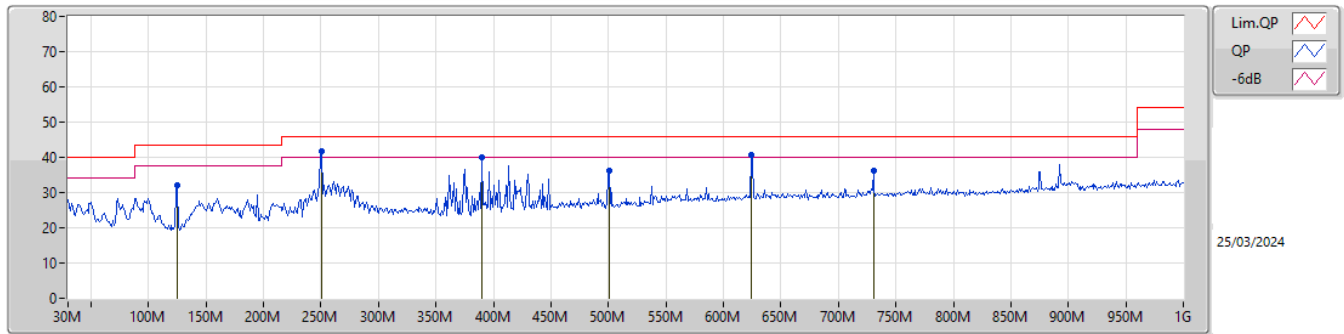
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	44.55M	36.99	40.00	-3.01	Vertical

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/m)	AF (dB/m)	CL (dB)	PA (dB)		
QP	44.55M	36.99	40.00	-3.01	-13.96	3	Vertical	249	1.00	"Worst"	50.95	16.63	1.22	31.81		
QP	48.43M	36.68	40.00	-3.32	-15.68	3	Vertical	161	1.00	-	52.36	14.92	1.26	31.86		
QP	73.65M	36.95	40.00	-3.05	-17.77	3	Vertical	284	1.00	-	54.72	12.64	1.52	31.93		
PK	500.45M	33.39	46.00	-12.61	-4.84	3	Vertical	38	1.25	-	38.23	23.26	4.17	32.27		
PK	625.58M	39.68	46.00	-6.32	-3.18	3	Vertical	156	1.00	-	42.86	24.64	4.72	32.54		
PK	874.87M	36.45	46.00	-9.55	-0.56	3	Vertical	346	1.50	-	37.01	26.26	5.72	32.54		

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/m)	AF (dB/m)	CL (dB)	PA (dB)		
PK	125.06M	32.21	43.50	-11.29	-11.82	3	Horizontal	287	3.00	-	44.03	18.19	1.97	31.98		
PK	250.19M	41.62	46.00	-4.38	-10.94	3	Horizontal	202	1.25	"Worst"	52.56	18.27	2.83	32.04		
PK	389.87M	39.87	46.00	-6.13	-7.44	3	Horizontal	124	1.00	-	47.31	21.09	3.64	32.17		
PK	500.45M	36.09	46.00	-9.91	-4.84	3	Horizontal	122	2.00	-	40.93	23.26	4.17	32.27		
PK	624.61M	40.70	46.00	-5.30	-3.18	3	Horizontal	25	2.00	-	43.88	24.64	4.71	32.53		
PK	730.34M	36.24	46.00	-9.76	-2.18	3	Horizontal	68	2.00	-	38.42	25.29	5.15	32.62		

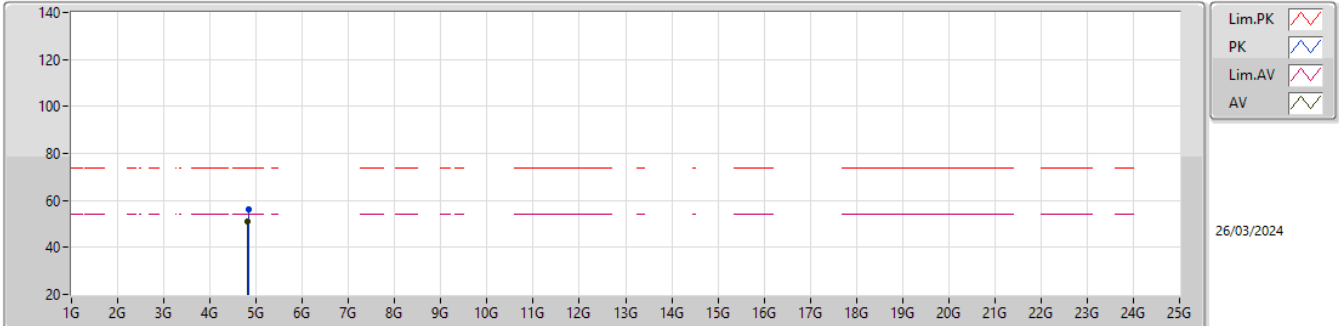


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	4.82038G	50.86	54.00	-3.14	3	Vertical	355	2.66	-

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

2412MHz_TX

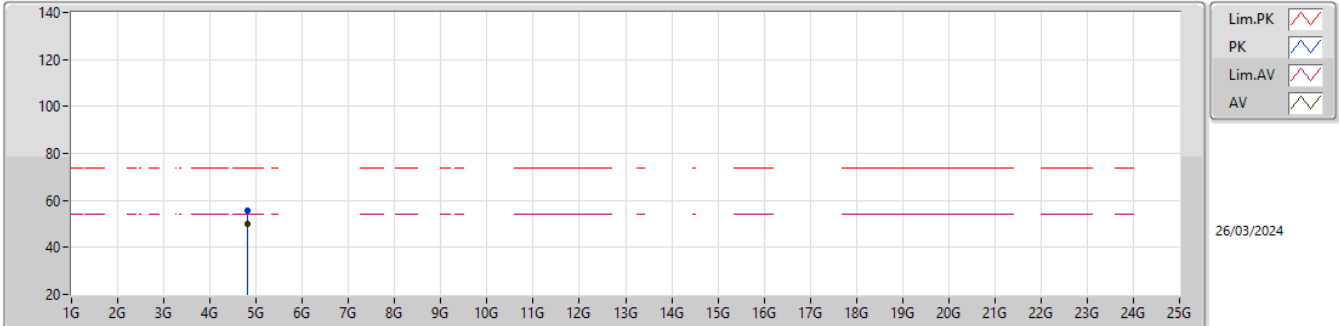


EUT_X_2TX
Setting 16
06-D-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.82852G	56.39	74.00	-17.61	49.80	3	Vertical	355	2.66	-	31.30	6.69	31.40			
AV	4.82038G	50.86	54.00	-3.14	44.28	3	Vertical	355	2.66	-	31.30	6.69	31.41			

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

2412MHz_TX



EUT_X_2TX
Setting 16
06-D-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.8217G	55.53	74.00	-18.47	48.94	3	Horizontal	117	1.88	-	31.30	6.69	31.40			
AV	4.8211G	49.88	54.00	-4.12	43.30	3	Horizontal	117	1.88	-	31.30	6.69	31.41			

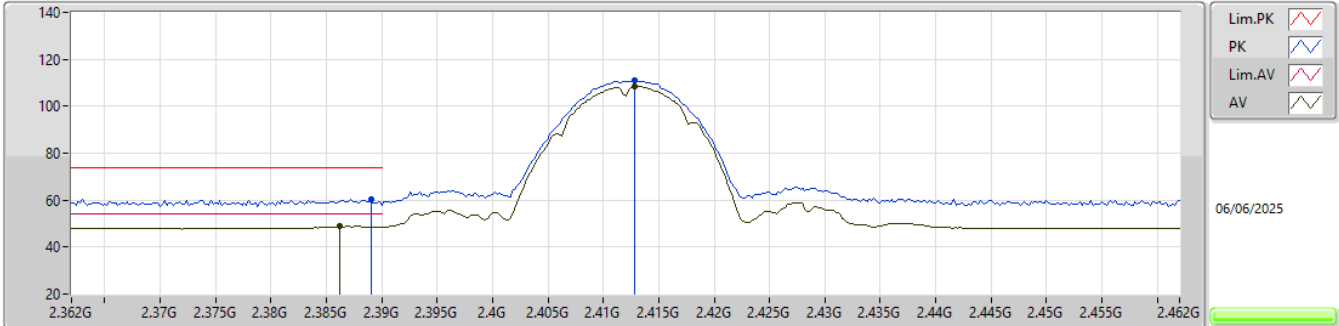


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	2.3892G	53.84	54.00	-0.16	3	Vertical	328	2.23	-

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

2412MHz_TX

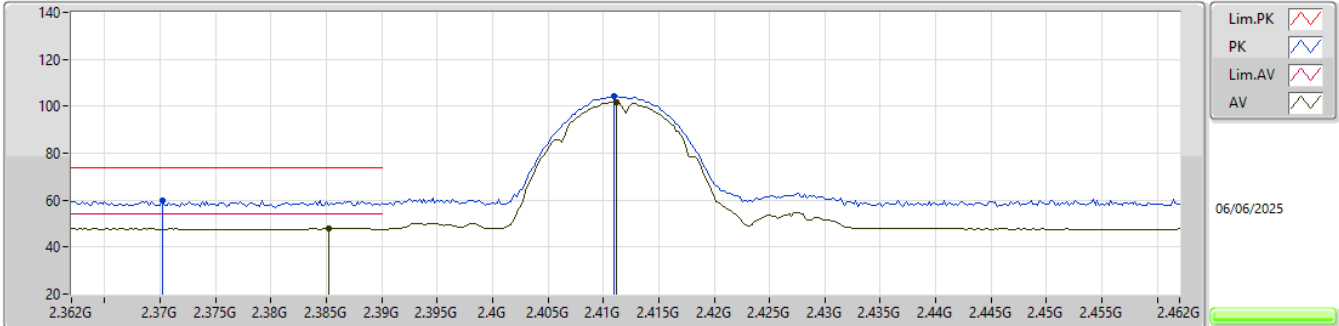


EUT_Z_2TX
Setting 13.5
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.389G	60.35	74.00	-13.65	28.13	3	Vertical	332	2.03	-	27.60	4.62	-				
AV	2.3862G	48.84	54.00	-5.16	16.62	3	Vertical	332	2.03	-	27.60	4.62	-				
PK	2.4128G	111.07	Inf	-Inf	78.85	3	Vertical	332	2.03	-	27.57	4.65	-				
AV	2.4128G	108.60	Inf	-Inf	76.38	3	Vertical	332	2.03	-	27.57	4.65	-				

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

2412MHz_TX

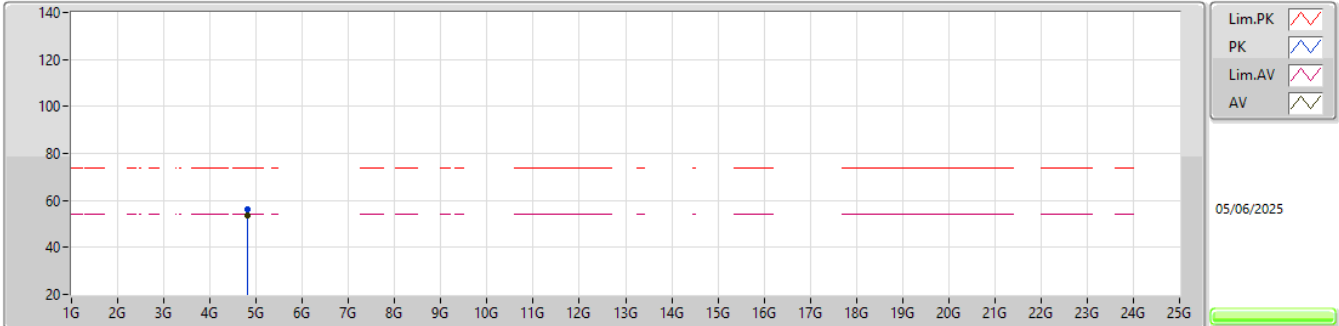


EUT_Z_2TX
Setting 13.5
06-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.3702G	59.91	74.00	-14.09	27.60	3	Horizontal	83	1.57	-	27.70	4.61	-				
AV	2.3852G	48.08	54.00	-5.92	15.86	3	Horizontal	83	1.57	-	27.60	4.62	-				
PK	2.411G	104.26	Inf	-Inf	72.02	3	Horizontal	83	1.57	-	27.59	4.65	-				
AV	2.4112G	101.80	Inf	-Inf	69.56	3	Horizontal	83	1.57	-	27.59	4.65	-				

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

2412MHz_TX

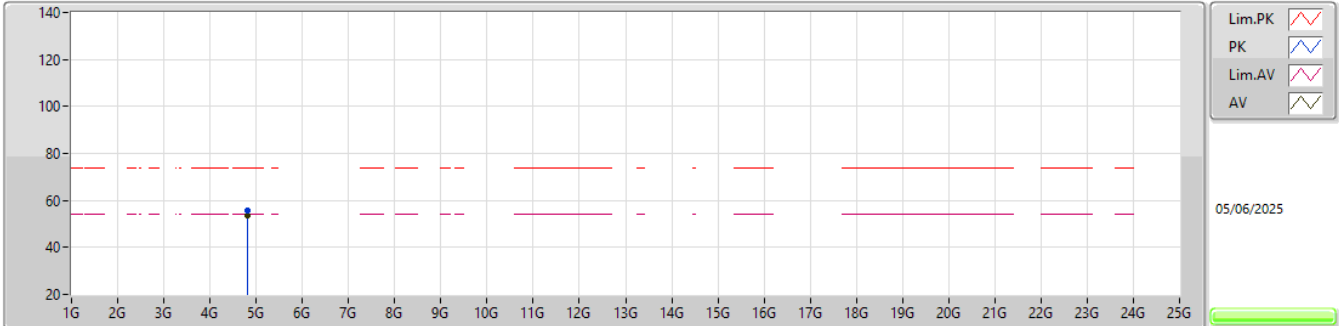


EUT_X_2TX
Setting 13.5
06-H-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.82394G	55.95	74.00	-18.05	52.01	3	Vertical	44	1.89	-	31.35	6.55	33.96			
AV	4.82394G	53.63	54.00	-0.37	49.69	3	Vertical	44	1.89	-	31.35	6.55	33.96			

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

2412MHz_TX

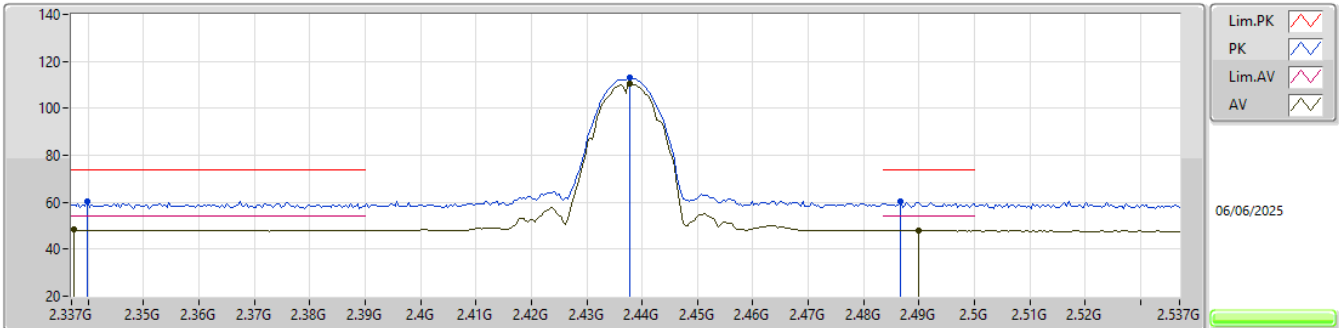


EUT_X_2TX
Setting 13.5
06-H-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.82388G	55.86	74.00	-18.14	51.92	3	Horizontal	146	2.01	-	31.35	6.55	33.96			
AV	4.82394G	53.43	54.00	-0.57	49.49	3	Horizontal	146	2.01	-	31.35	6.55	33.96			

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

2437MHz_TX

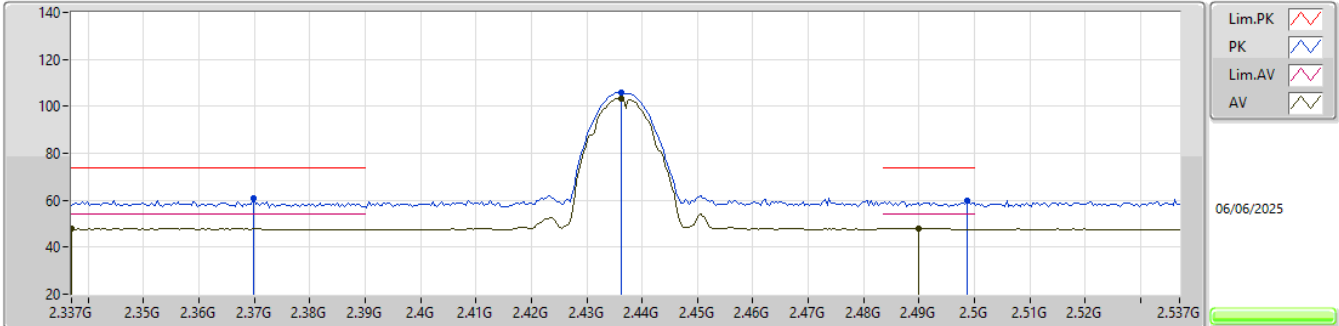


EUT_Z_2TX
Setting 15
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3398G	60.26	74.00	-13.74	27.87	3	Vertical	333	2.26	-	27.80	4.59	-				
AV	2.3374G	48.23	54.00	-5.77	15.81	3	Vertical	333	2.26	-	27.83	4.59	-				
PK	2.4378G	112.97	Inf	-Inf	80.86	3	Vertical	333	2.26	-	27.42	4.69	-				
AV	2.4378G	110.42	Inf	-Inf	78.31	3	Vertical	333	2.26	-	27.42	4.69	-				
PK	2.4866G	60.09	74.00	-13.91	27.84	3	Vertical	333	2.26	-	27.47	4.78	-				
AV	2.4898G	48.03	54.00	-5.97	15.75	3	Vertical	333	2.26	-	27.50	4.78	-				

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

2437MHz_TX

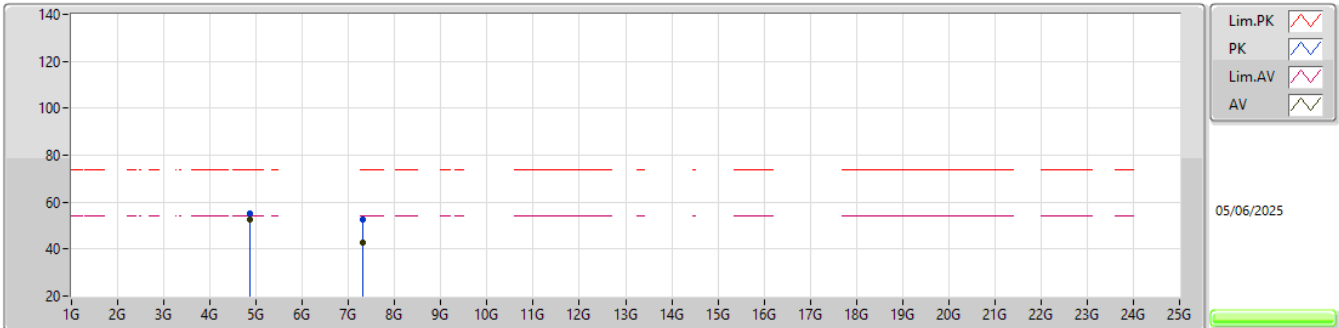


EUT_Z_2TX
Setting 15
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3698G	60.63	74.00	-13.37	28.32	3	Horizontal	85	1.52	-	27.70	4.61	-				
AV	2.337G	47.96	54.00	-6.04	15.54	3	Horizontal	85	1.52	-	27.83	4.59	-				
PK	2.4362G	106.11	Inf	-Inf	73.98	3	Horizontal	85	1.52	-	27.44	4.69	-				
AV	2.4362G	103.52	Inf	-Inf	71.39	3	Horizontal	85	1.52	-	27.44	4.69	-				
PK	2.4986G	59.57	74.00	-14.43	27.36	3	Horizontal	85	1.52	-	27.41	4.80	-				
AV	2.4898G	47.75	54.00	-6.25	15.47	3	Horizontal	85	1.52	-	27.50	4.78	-				

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

2437MHz_TX

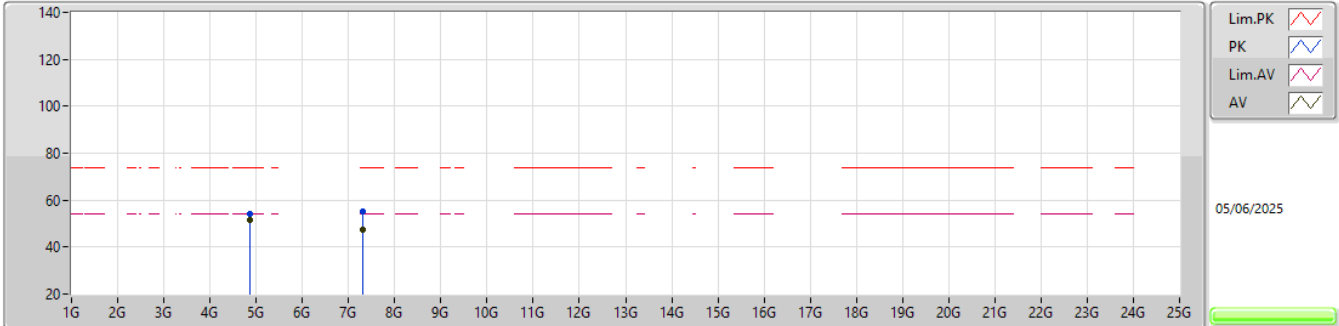


EUT_X_2TX
Setting 15
06-H-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.87394G	54.97	74.00	-19.03	51.09	3	Vertical	43	1.87	-	31.30	6.55	33.97				
AV	4.87394G	52.46	54.00	-1.54	48.58	3	Vertical	43	1.87	-	31.30	6.55	33.97				
PK	7.31286G	52.46	74.00	-21.54	41.47	3	Vertical	28	1.80	-	36.60	8.58	34.19				
AV	7.31226G	42.97	54.00	-11.03	31.98	3	Vertical	28	1.80	-	36.60	8.58	34.19				

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

2437MHz_TX

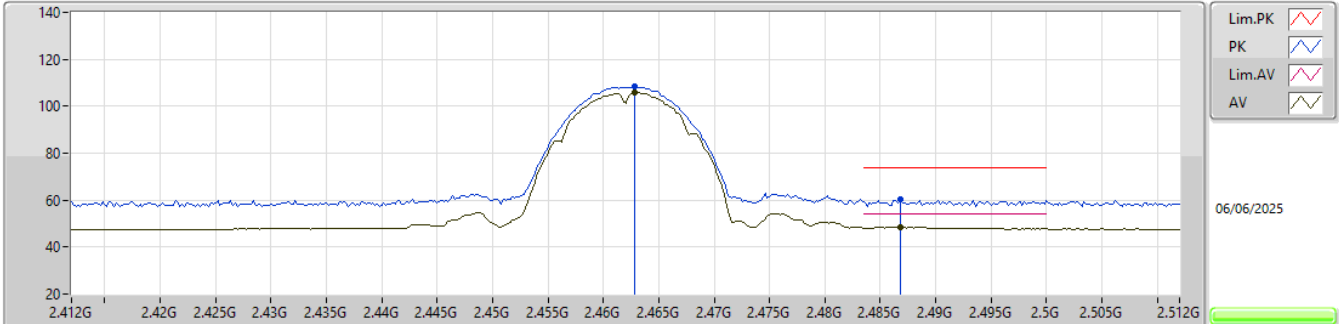


EUT_X_2TX
Setting 15
06-H-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.87388G	53.93	74.00	-20.07	50.05	3	Horizontal	148	1.97	-	31.30	6.55	33.97				
AV	4.87394G	51.39	54.00	-2.61	47.51	3	Horizontal	148	1.97	-	31.30	6.55	33.97				
PK	7.31244G	55.32	74.00	-18.68	44.33	3	Horizontal	21	1.76	-	36.60	8.58	34.19				
AV	7.31226G	47.50	54.00	-6.50	36.51	3	Horizontal	21	1.76	-	36.60	8.58	34.19				

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

2462MHz_TX

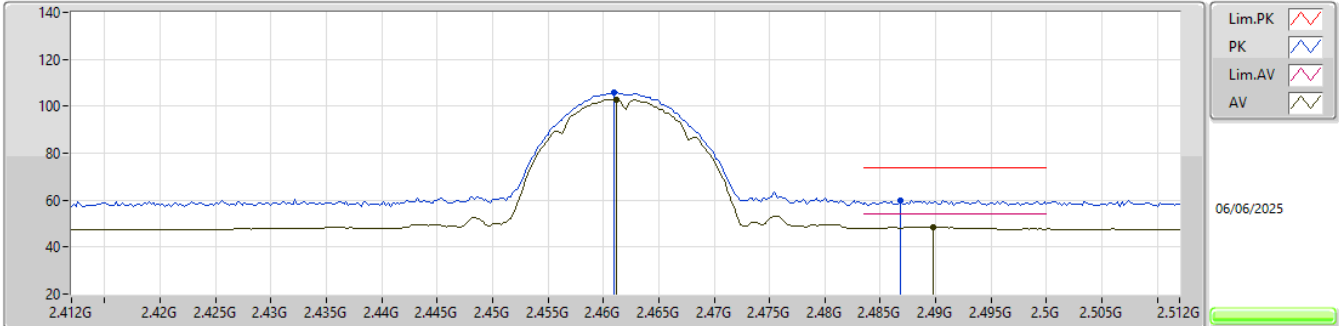


EUT_Z_2TX
Setting 14
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.4628G	108.45	Inf	-Inf	76.34	3	Vertical	77	1.96	-	27.37	4.74	-				
AV	2.4628G	105.95	Inf	-Inf	73.84	3	Vertical	77	1.96	-	27.37	4.74	-				
PK	2.4868G	60.56	74.00	-13.44	28.31	3	Vertical	77	1.96	-	27.47	4.78	-				
AV	2.4868G	48.56	54.00	-5.44	16.31	3	Vertical	77	1.96	-	27.47	4.78	-				

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

2462MHz_TX

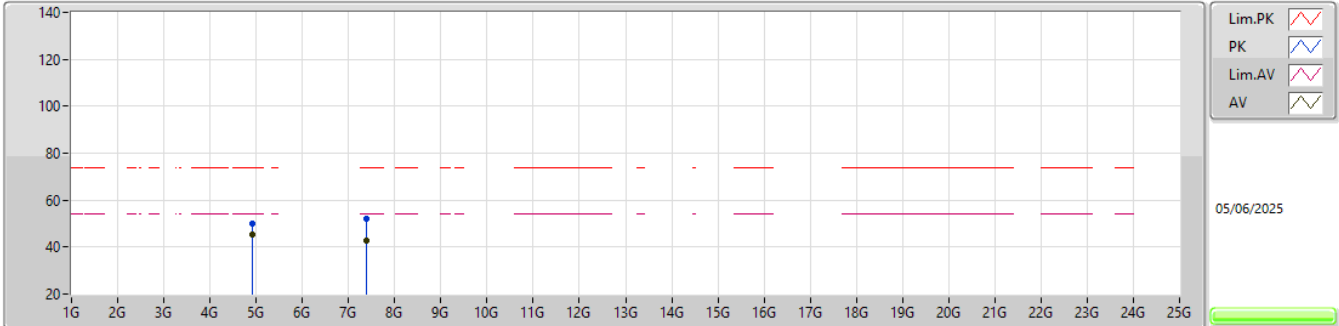


EUT_Z_2TX
Setting 14
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4612G	105.71	Inf	-Inf	73.59	3	Horizontal	327	2.34	-	27.39	4.73	-			
AV	2.4612G	103.00	Inf	-Inf	70.88	3	Horizontal	327	2.34	-	27.39	4.73	-			
PK	2.4868G	59.73	74.00	-14.27	27.48	3	Horizontal	327	2.34	-	27.47	4.78	-			
AV	2.4898G	48.31	54.00	-5.69	16.03	3	Horizontal	327	2.34	-	27.50	4.78	-			

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

2462MHz_TX

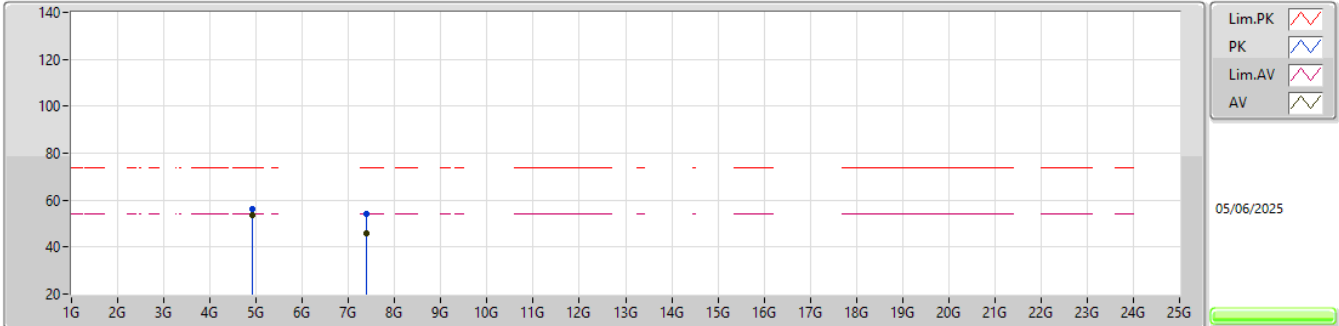


EUT_X_2TX
Setting 14
06-H-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.92406G	49.81	74.00	-24.19	45.83	3	Vertical	0	3.00	-	31.40	6.56	33.98				
AV	4.924G	45.53	54.00	-8.47	41.55	3	Vertical	0	3.00	-	31.40	6.56	33.98				
PK	7.38378G	52.28	74.00	-21.72	41.37	3	Vertical	27	1.79	-	36.46	8.64	34.19				
AV	7.38756G	42.65	54.00	-11.35	31.75	3	Vertical	27	1.79	-	36.45	8.64	34.19				

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

2462MHz_TX

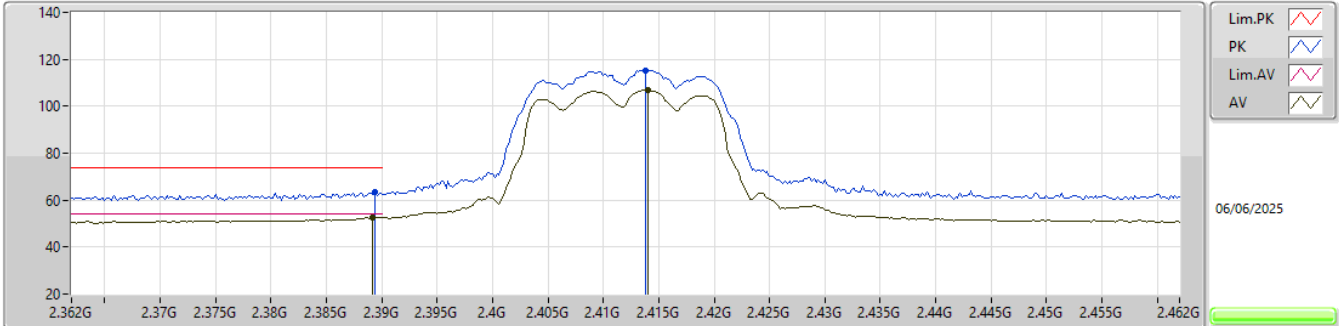


EUT_X_2TX
Setting 14
06-H-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.924G	56.15	74.00	-17.85	52.17	3	Horizontal	22	2.15	-	31.40	6.56	33.98				
AV	4.92388G	53.39	54.00	-0.61	49.41	3	Horizontal	22	2.15	-	31.40	6.56	33.98				
PK	7.38414G	54.11	74.00	-19.89	43.20	3	Horizontal	25	1.80	-	36.46	8.64	34.19				
AV	7.38756G	45.72	54.00	-8.28	34.82	3	Horizontal	25	1.80	-	36.45	8.64	34.19				

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

2412MHz_TX

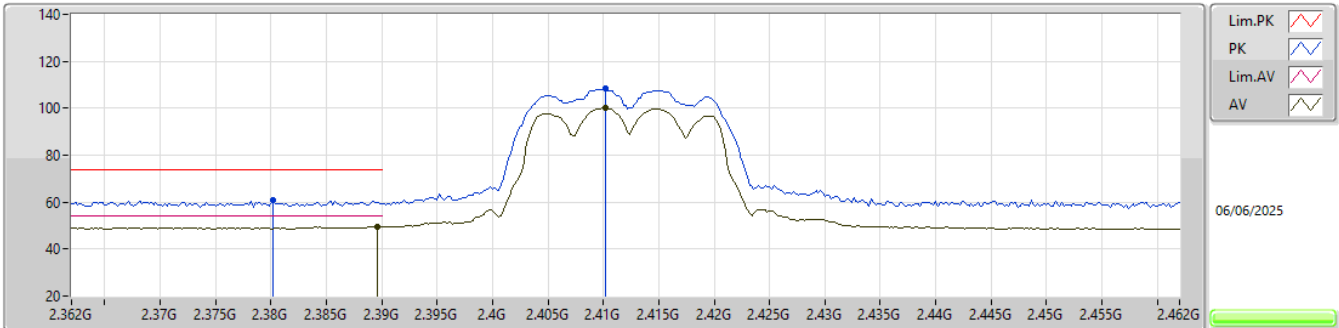


EUT_Z_TX
Setting 15
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3894G	63.61	74.00	-10.39	31.39	3	Vertical	332	2.14	-	27.60	4.62	-			
AV	2.3892G	52.68	54.00	-1.32	20.46	3	Vertical	332	2.14	-	27.60	4.62	-			
PK	2.4138G	115.43	Inf	-Inf	83.22	3	Vertical	332	2.14	-	27.56	4.65	-			
AV	2.414G	106.85	Inf	-Inf	74.64	3	Vertical	332	2.14	-	27.56	4.65	-			

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

2412MHz_TX

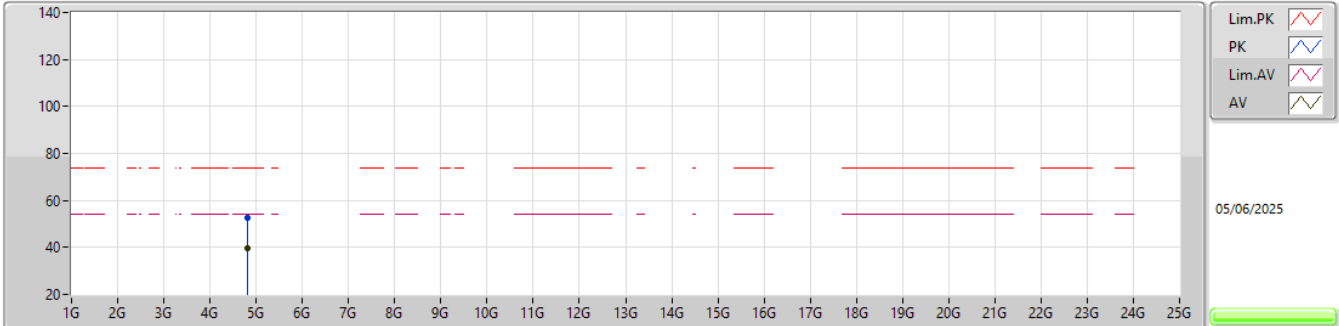


EUT_Z_TX
Setting 15
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3802G	60.74	74.00	-13.26	28.52	3	Horizontal	82	1.56	-	27.60	4.62	-				
AV	2.3896G	49.54	54.00	-4.46	17.32	3	Horizontal	82	1.56	-	27.60	4.62	-				
PK	2.4102G	108.25	Inf	-Inf	76.00	3	Horizontal	82	1.56	-	27.60	4.65	-				
AV	2.4102G	100.04	Inf	-Inf	67.79	3	Horizontal	82	1.56	-	27.60	4.65	-				

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

2412MHz_TX

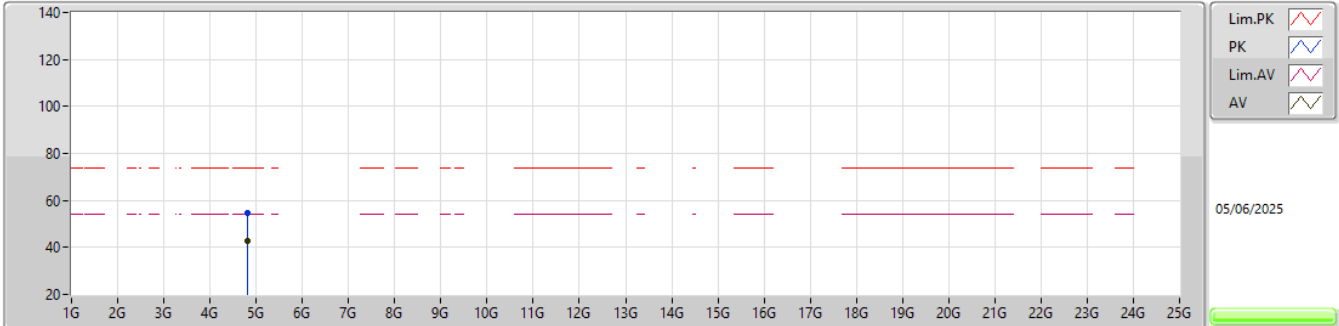


EUT_X_2TX
Setting 15
06-H-V-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.82268G	52.42	74.00	-21.58	48.48	3	Vertical	60	1.84	-	31.35	6.55	33.96			
AV	4.82202G	39.78	54.00	-14.22	35.83	3	Vertical	60	1.84	-	31.36	6.55	33.96			

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

2412MHz_TX

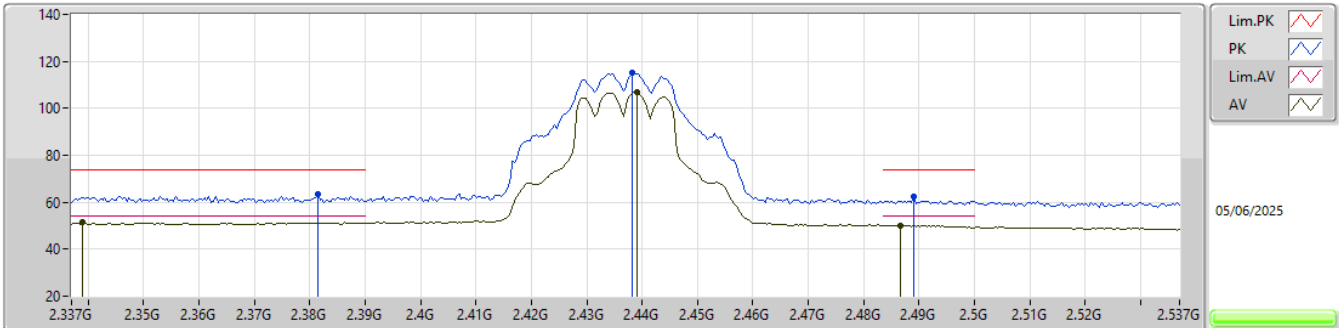


EUT_X_2TX
Setting 15
06-H-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.8222G	54.63	74.00	-19.37	50.68	3	Horizontal	340	1.73	-	31.36	6.55	33.96			
AV	4.82172G	42.96	54.00	-11.04	39.01	3	Horizontal	340	1.73	-	31.36	6.55	33.96			

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

2437MHz_TX

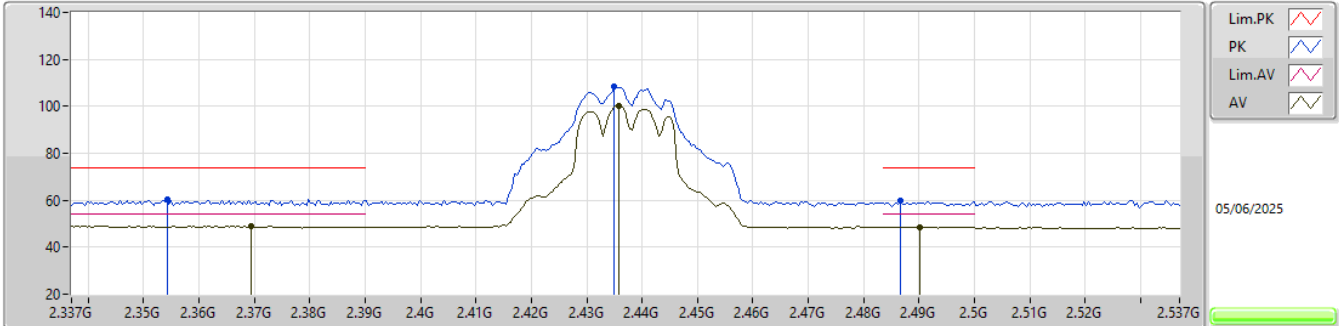


EUT_Z_2TX
Setting 15
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3814G	63.44	74.00	-10.56	31.22	3	Vertical	334	2.22	-	27.60	4.62	-				
AV	2.339G	51.36	54.00	-2.64	18.96	3	Vertical	334	2.22	-	27.81	4.59	-				
PK	2.4382G	115.14	Inf	-Inf	83.03	3	Vertical	334	2.22	-	27.42	4.69	-				
AV	2.439G	106.76	Inf	-Inf	74.65	3	Vertical	334	2.22	-	27.41	4.70	-				
PK	2.489G	62.56	74.00	-11.44	30.29	3	Vertical	334	2.22	-	27.49	4.78	-				
AV	2.4866G	50.23	54.00	-3.77	17.98	3	Vertical	334	2.22	-	27.47	4.78	-				

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

2437MHz_TX

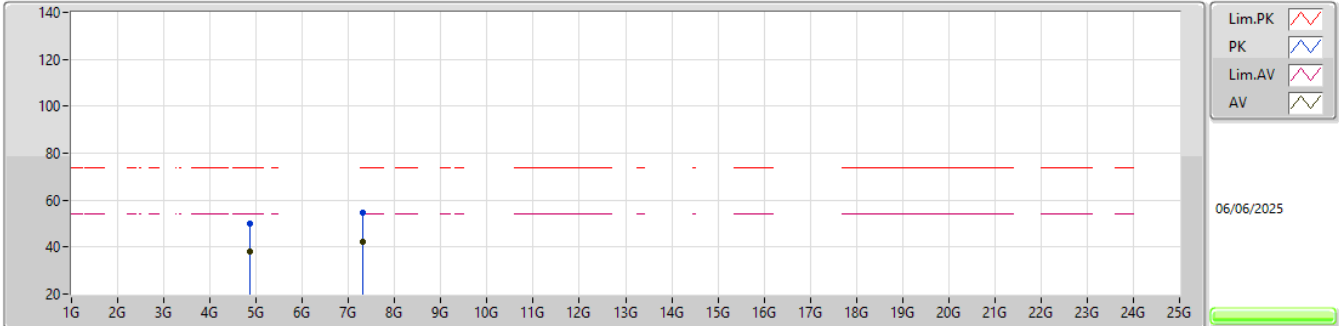


EUT_Z_2TX
Setting 15
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3542G	60.21	74.00	-13.79	27.81	3	Horizontal	148	1.66	-	27.80	4.60	-				
AV	2.3694G	49.01	54.00	-4.99	16.69	3	Horizontal	148	1.66	-	27.71	4.61	-				
PK	2.435G	108.53	Inf	-Inf	76.39	3	Horizontal	148	1.66	-	27.45	4.69	-				
AV	2.4358G	100.12	Inf	-Inf	67.99	3	Horizontal	148	1.66	-	27.44	4.69	-				
PK	2.4866G	59.88	74.00	-14.12	27.63	3	Horizontal	148	1.66	-	27.47	4.78	-				
AV	2.4902G	48.57	54.00	-5.43	16.29	3	Horizontal	148	1.66	-	27.50	4.78	-				

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

2437MHz_TX

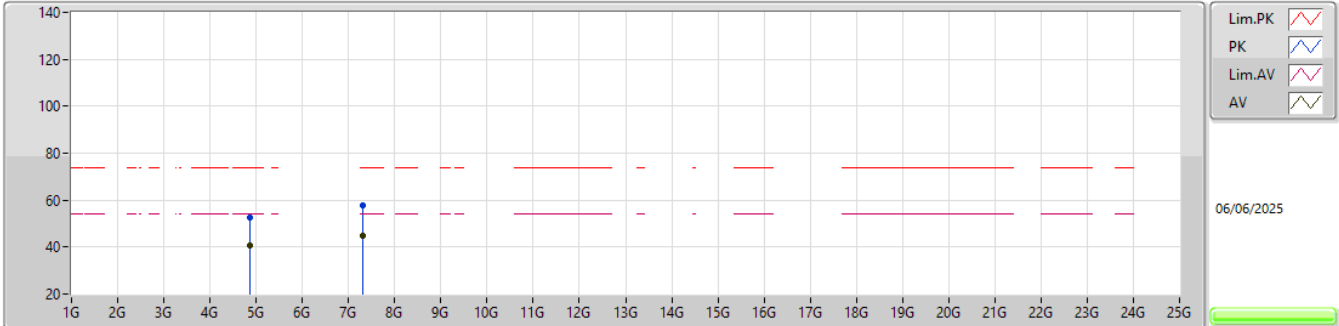


EUT_X_2TX
Setting 15
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.87346G	49.85	74.00	-24.15	45.97	3	Vertical	320	1.80	-	31.30	6.55	33.97				
AV	4.87226G	38.12	54.00	-15.88	34.24	3	Vertical	320	1.80	-	31.30	6.55	33.97				
PK	7.31766G	54.79	74.00	-19.21	43.80	3	Vertical	8	2.41	-	36.60	8.58	34.19				
AV	7.31454G	42.40	54.00	-11.60	31.41	3	Vertical	8	2.41	-	36.60	8.58	34.19				

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

2437MHz_TX

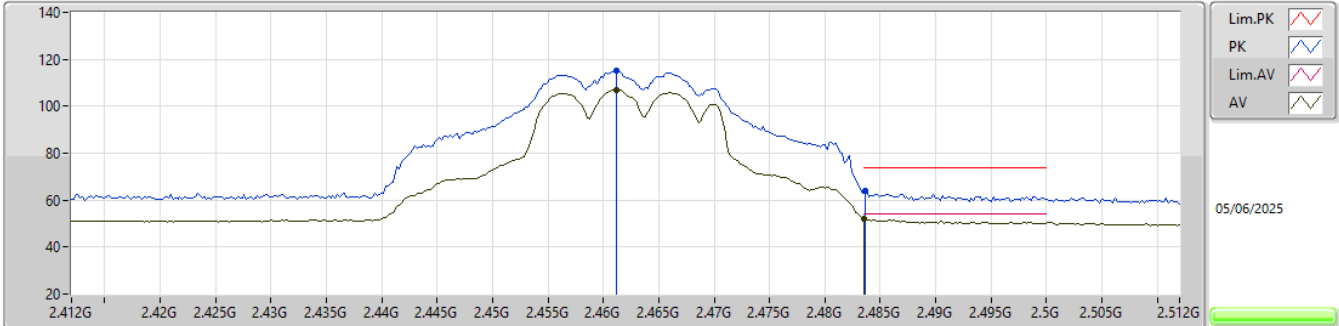


EUT_X_2TX
Setting 15
06-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	4.87208G	52.74	74.00	-21.26	48.86	3	Horizontal	337	1.70	-	31.30	6.55	33.97				
AV	4.8719G	40.72	54.00	-13.28	36.84	3	Horizontal	337	1.70	-	31.30	6.55	33.97				
PK	7.3086G	57.75	74.00	-16.25	46.77	3	Horizontal	18	1.80	-	36.60	8.57	34.19				
AV	7.31088G	44.71	54.00	-9.29	33.73	3	Horizontal	18	1.80	-	36.60	8.57	34.19				

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

2462MHz_TX

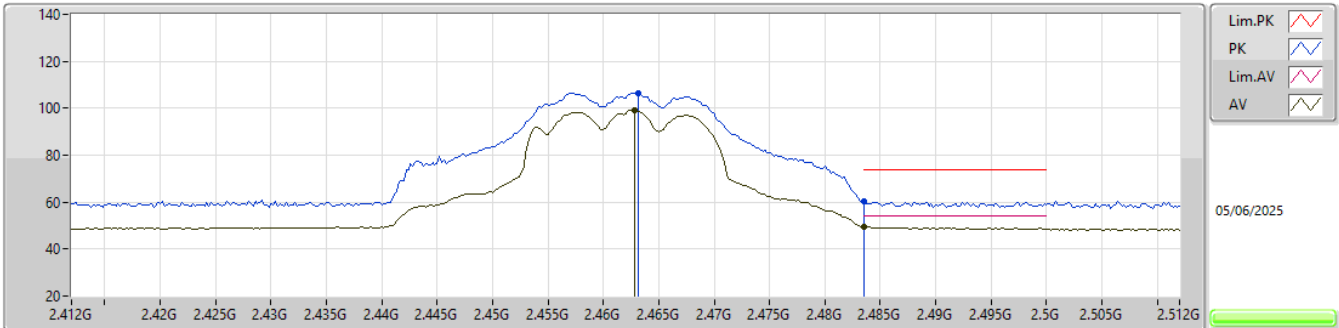


EUT_Z_2TX
Setting 14.5
06-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	2.4612G	115.35	Inf	-Inf	83.23	3	Vertical	331	2.42	-	27.39	4.73	-			
AV	2.4612G	107.12	Inf	-Inf	75.00	3	Vertical	331	2.42	-	27.39	4.73	-			
PK	2.4836G	63.96	74.00	-10.04	31.75	3	Vertical	331	2.42	-	27.44	4.77	-			
AV	2.4835G	51.96	54.00	-2.04	19.75	3	Vertical	331	2.42	-	27.44	4.77	-			

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

2462MHz_TX

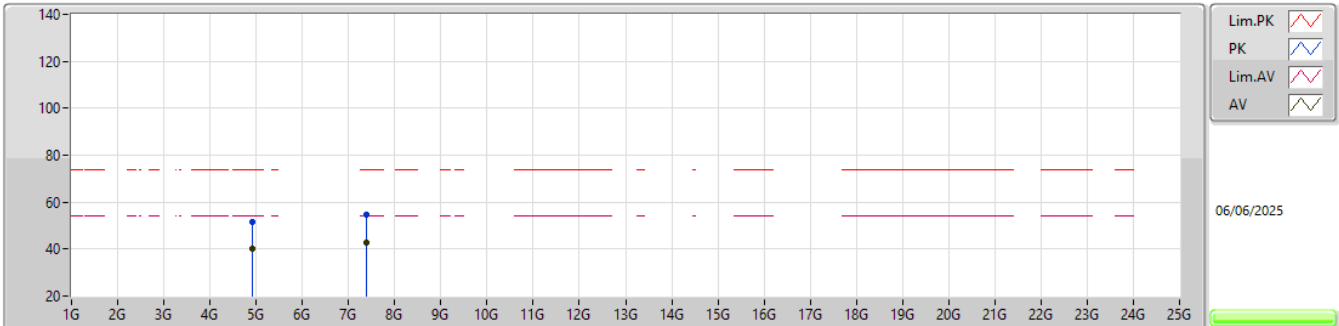


EUT_Z_2TX
Setting 14.5
06-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.4632G	106.46	Inf	-Inf	74.35	3	Horizontal	82	1.40	-	27.37	4.74	-				
AV	2.4628G	99.17	Inf	-Inf	67.06	3	Horizontal	82	1.40	-	27.37	4.74	-				
PK	2.4835G	60.33	74.00	-13.67	28.12	3	Horizontal	82	1.40	-	27.44	4.77	-				
AV	2.4835G	49.28	54.00	-4.72	17.07	3	Horizontal	82	1.40	-	27.44	4.77	-				

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

2462MHz_TX

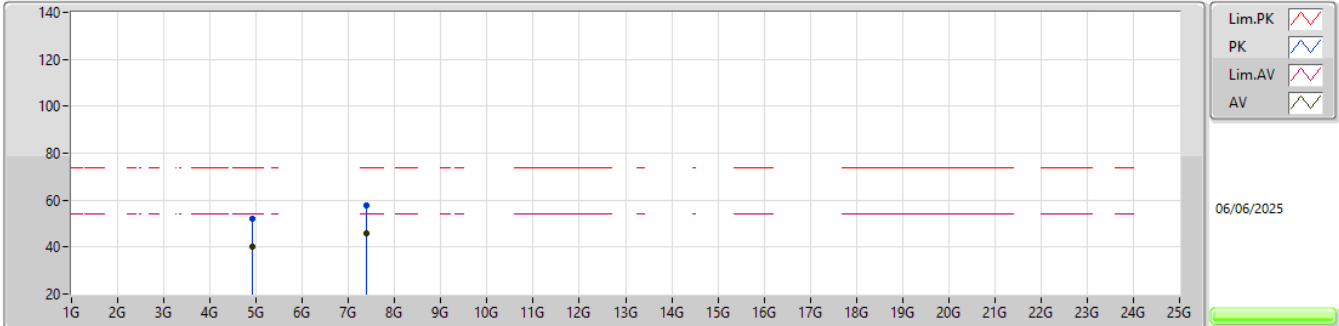


EUT_X_2TX
 Setting 14.5
 06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.92394G	51.51	74.00	-22.49	47.53	3	Vertical	40	3.00	-	31.40	6.56	33.98			
AV	4.92388G	39.93	54.00	-14.07	35.95	3	Vertical	40	3.00	-	31.40	6.56	33.98			
PK	7.38852G	54.46	74.00	-19.54	43.56	3	Vertical	5	1.92	-	36.45	8.64	34.19			
AV	7.38774G	42.97	54.00	-11.03	32.07	3	Vertical	5	1.92	-	36.45	8.64	34.19			

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

2462MHz_TX

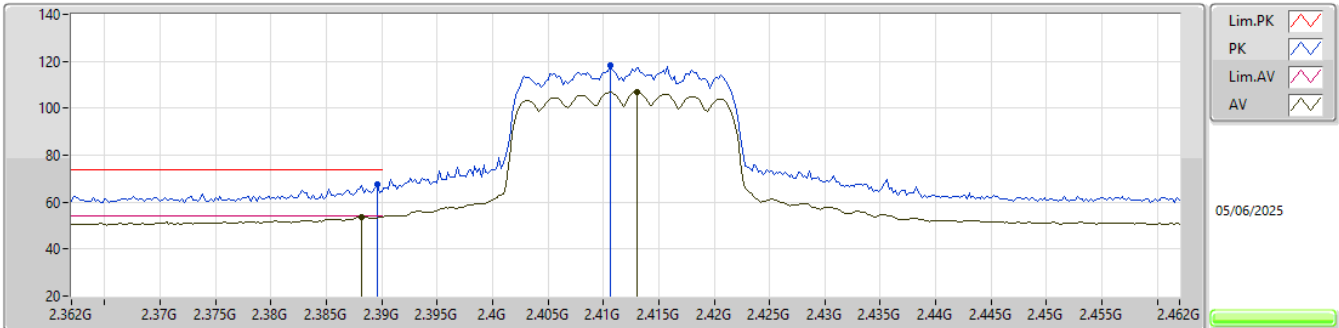


EUT_X_2TX
Setting 14.5
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.91962G	52.08	74.00	-21.92	48.12	3	Horizontal	360	1.80	-	31.38	6.56	33.98				
AV	4.92394G	40.36	54.00	-13.64	36.38	3	Horizontal	360	1.80	-	31.40	6.56	33.98				
PK	7.38966G	57.93	74.00	-16.07	47.04	3	Horizontal	17	1.82	-	36.44	8.64	34.19				
AV	7.38636G	46.07	54.00	-7.93	35.17	3	Horizontal	17	1.82	-	36.45	8.64	34.19				

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

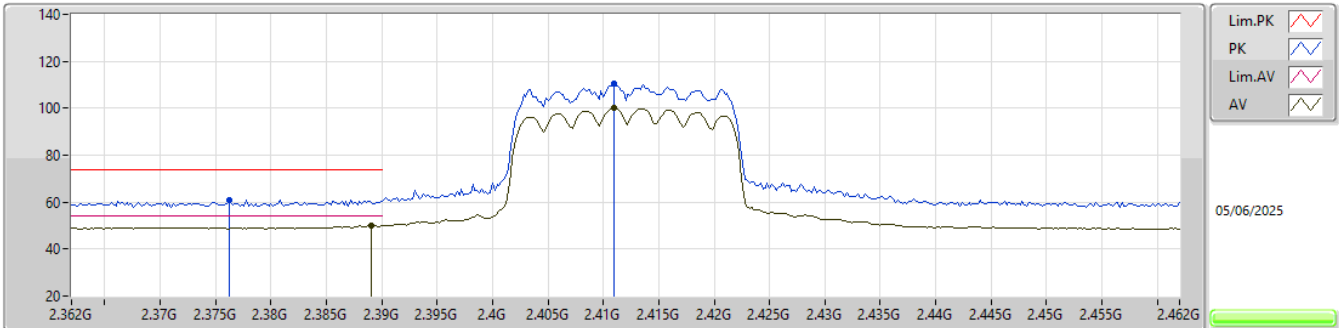
2412MHz_TX

EUT_Z_2TX
Setting 15.5
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3896G	67.59	74.00	-6.41	35.37	3	Vertical	328	2.02	-	27.60	4.62	-			
AV	2.3882G	53.56	54.00	-0.44	21.34	3	Vertical	328	2.02	-	27.60	4.62	-			
PK	2.4106G	118.23	Inf	-Inf	85.99	3	Vertical	328	2.02	-	27.59	4.65	-			
AV	2.413G	106.81	Inf	-Inf	74.59	3	Vertical	328	2.02	-	27.57	4.65	-			

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

2412MHz_TX

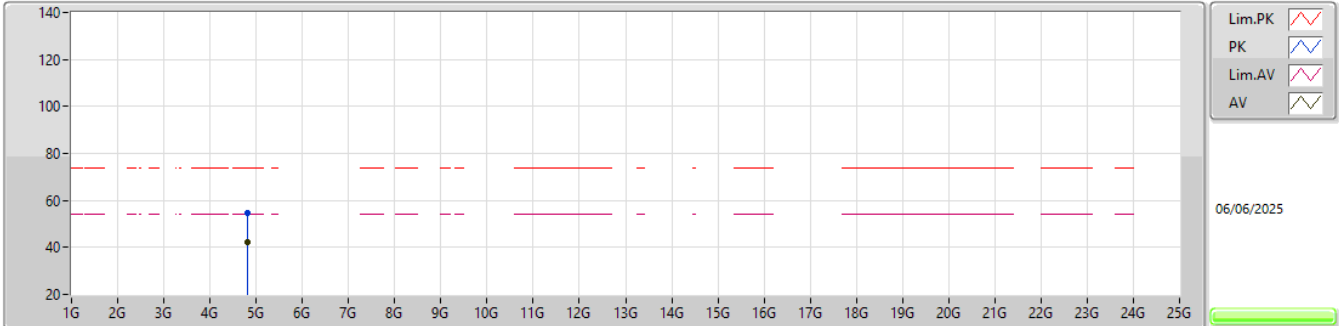


EUT_Z_2TX
Setting 15.5
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3762G	60.79	74.00	-13.21	28.54	3	Horizontal	80	1.37	-	27.64	4.61	-			
AV	2.389G	49.97	54.00	-4.03	17.75	3	Horizontal	80	1.37	-	27.60	4.62	-			
PK	2.411G	110.32	Inf	-Inf	78.08	3	Horizontal	80	1.37	-	27.59	4.65	-			
AV	2.411G	99.95	Inf	-Inf	67.71	3	Horizontal	80	1.37	-	27.59	4.65	-			

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

2412MHz_TX

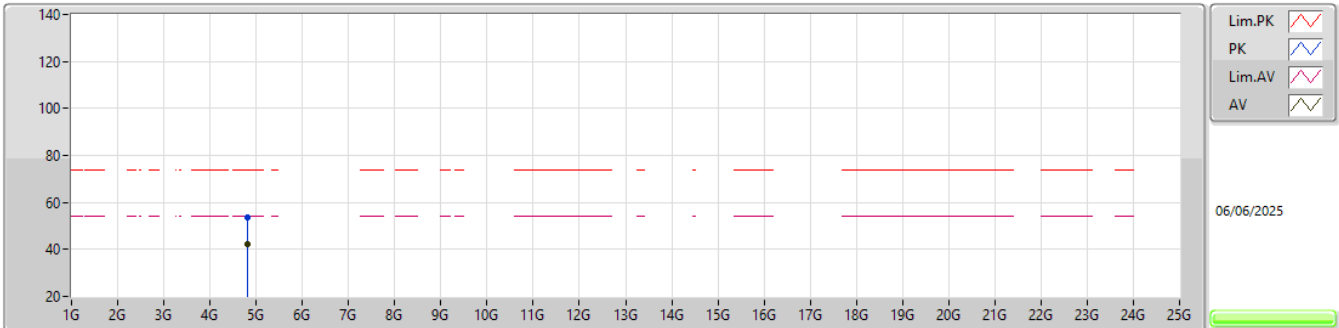


EUT_X_2TX
Setting 15.5
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.81764G	54.71	74.00	-19.29	50.76	3	Vertical	99	3.00	-	31.36	6.55	33.96			
AV	4.82286G	42.18	54.00	-11.82	38.24	3	Vertical	99	3.00	-	31.35	6.55	33.96			

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

2412MHz_TX

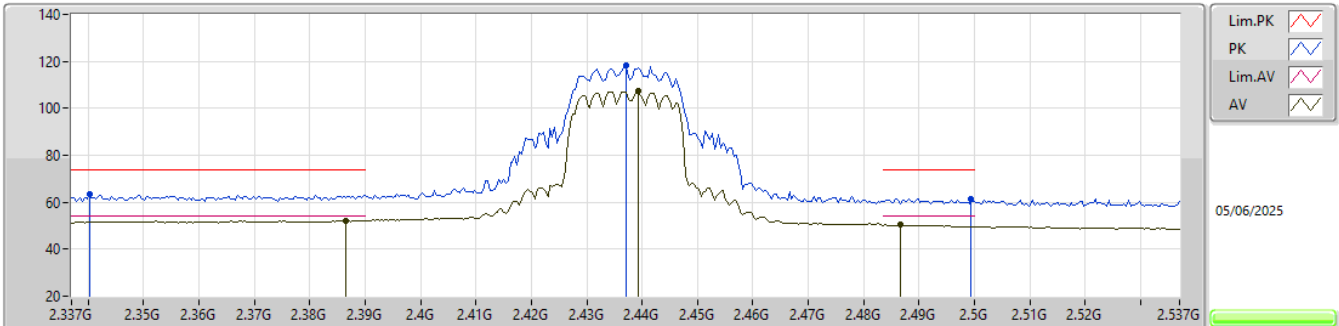


EUT_X_2TX
Setting 15.5
06-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.82082G	53.82	74.00	-20.18	49.87	3	Horizontal	329	2.25	-	31.36	6.55	33.96			
AV	4.82088G	42.47	54.00	-11.53	38.52	3	Horizontal	329	2.25	-	31.36	6.55	33.96			

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

2437MHz_TX

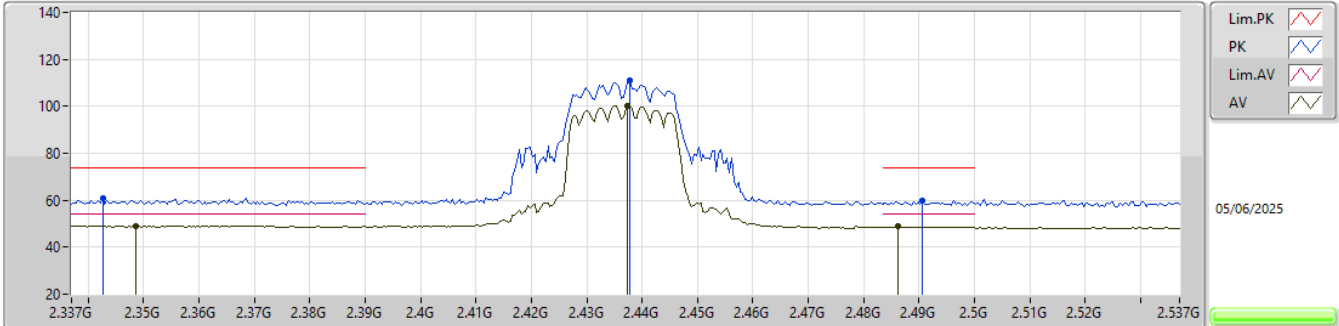


EUT_Z_2TX
Setting 16
06-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)					
PK	2.3402G	63.44	74.00	-10.56	31.05	3	Vertical	329	2.24	-	27.80	4.59	-					
AV	2.3866G	52.20	54.00	-1.80	19.98	3	Vertical	329	2.24	-	27.60	4.62	-					
PK	2.437G	118.06	Inf	-Inf	85.94	3	Vertical	329	2.24	-	27.43	4.69	-					
AV	2.4394G	107.38	Inf	-Inf	75.27	3	Vertical	329	2.24	-	27.41	4.70	-					
PK	2.4994G	61.52	74.00	-12.48	29.31	3	Vertical	329	2.24	-	27.41	4.80	-					
AV	2.4866G	50.44	54.00	-3.56	18.19	3	Vertical	329	2.24	-	27.47	4.78	-					

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

2437MHz_TX

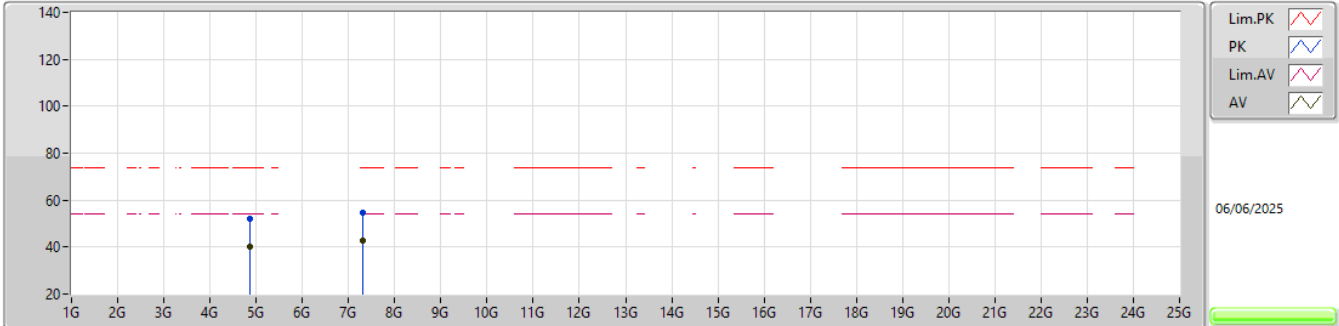


EUT_Z_2TX
Setting 16
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3426G	60.77	74.00	-13.23	28.38	3	Horizontal	146	1.66	-	27.80	4.59	-				
AV	2.3486G	49.19	54.00	-4.81	16.79	3	Horizontal	146	1.66	-	27.80	4.60	-				
PK	2.4378G	110.87	Inf	-Inf	78.76	3	Horizontal	146	1.66	-	27.42	4.69	-				
AV	2.4374G	100.24	Inf	-Inf	68.12	3	Horizontal	146	1.66	-	27.43	4.69	-				
PK	2.4906G	59.81	74.00	-14.19	27.54	3	Horizontal	146	1.66	-	27.49	4.78	-				
AV	2.4862G	48.81	54.00	-5.19	16.57	3	Horizontal	146	1.66	-	27.46	4.78	-				

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

2437MHz_TX

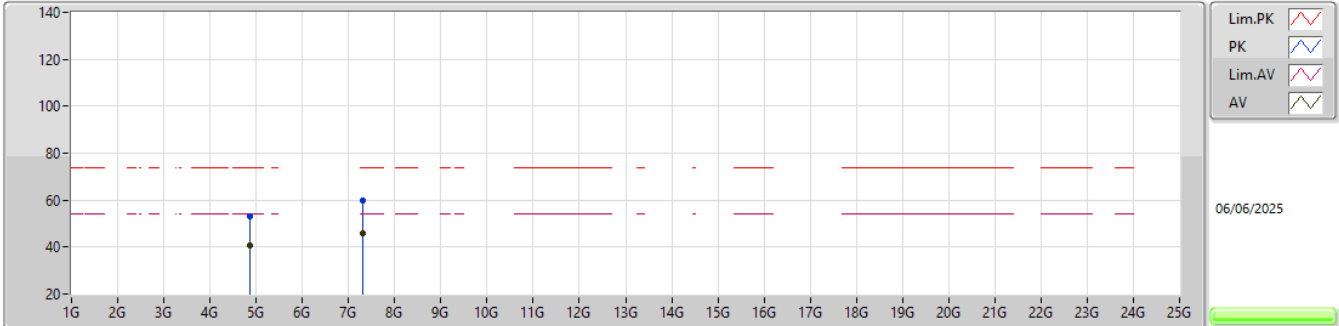


EUT_X_2TX
Setting 16
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.86968G	52.03	74.00	-21.97	48.15	3	Vertical	35	1.75	-	31.30	6.55	33.97				
AV	4.87394G	40.11	54.00	-13.89	36.23	3	Vertical	35	1.75	-	31.30	6.55	33.97				
PK	7.31238G	54.48	74.00	-19.52	43.49	3	Vertical	11	1.79	-	36.60	8.58	34.19				
AV	7.31424G	42.96	54.00	-11.04	31.97	3	Vertical	11	1.79	-	36.60	8.58	34.19				

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

2437MHz_TX

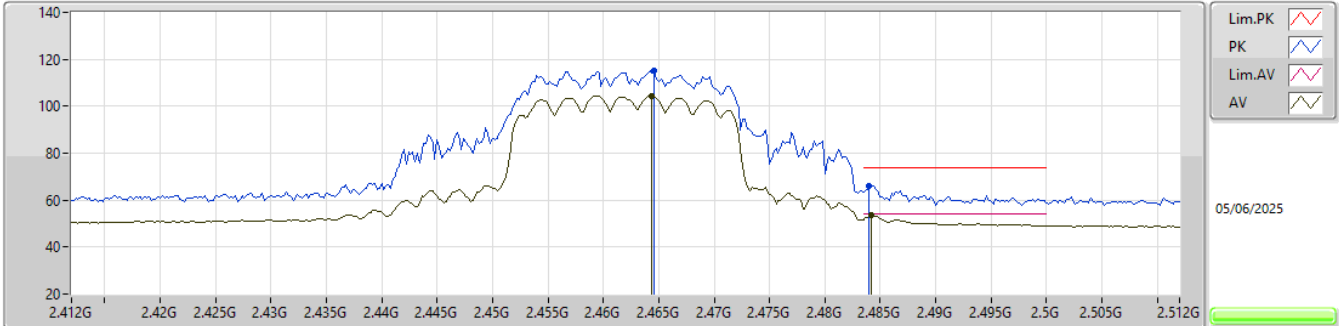


EUT_X_2TX
Setting 16
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87286G	53.01	74.00	-20.99	49.13	3	Horizontal	328	2.01	-	31.30	6.55	33.97			
AV	4.87046G	40.89	54.00	-13.11	37.01	3	Horizontal	328	2.01	-	31.30	6.55	33.97			
PK	7.31334G	59.71	74.00	-14.29	48.72	3	Horizontal	18	1.75	-	36.60	8.58	34.19			
AV	7.31202G	45.62	54.00	-8.38	34.63	3	Horizontal	18	1.75	-	36.60	8.58	34.19			

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

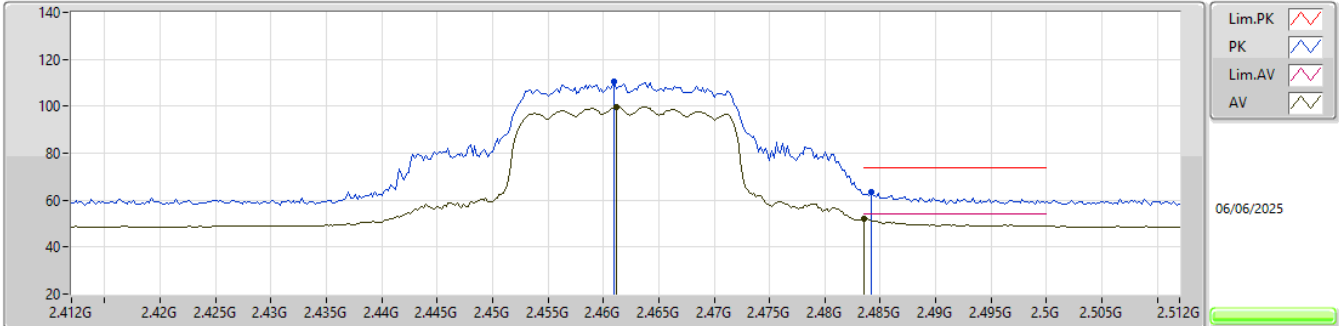


EUT_Z_2TX
Setting 15.5
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4646G	115.43	Inf	-Inf	83.34	3	Vertical	275	2.59	-	27.35	4.74	-			
AV	2.4644G	104.49	Inf	-Inf	72.39	3	Vertical	275	2.59	-	27.36	4.74	-			
PK	2.484G	66.11	74.00	-7.89	33.90	3	Vertical	275	2.59	-	27.44	4.77	-			
AV	2.4842G	53.52	54.00	-0.48	21.31	3	Vertical	275	2.59	-	27.44	4.77	-			

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

2462MHz_TX

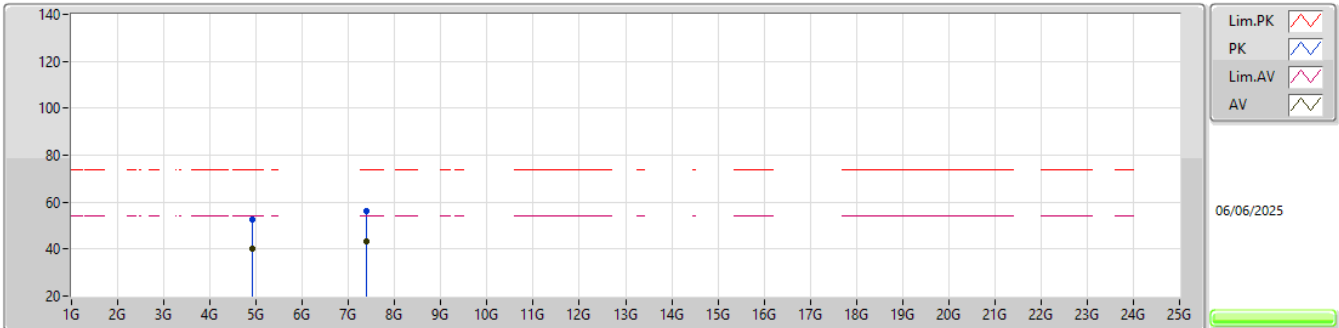


EUT_Z_2TX
Setting 15.5
06-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.461G	110.63	Inf	-Inf	78.51	3	Horizontal	39	1.26	-	27.39	4.73	-				
AV	2.4612G	99.67	Inf	-Inf	67.55	3	Horizontal	39	1.26	-	27.39	4.73	-				
PK	2.4842G	63.27	74.00	-10.73	31.06	3	Horizontal	39	1.26	-	27.44	4.77	-				
AV	2.4835G	51.96	54.00	-2.04	19.75	3	Horizontal	39	1.26	-	27.44	4.77	-				

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

2462MHz_TX

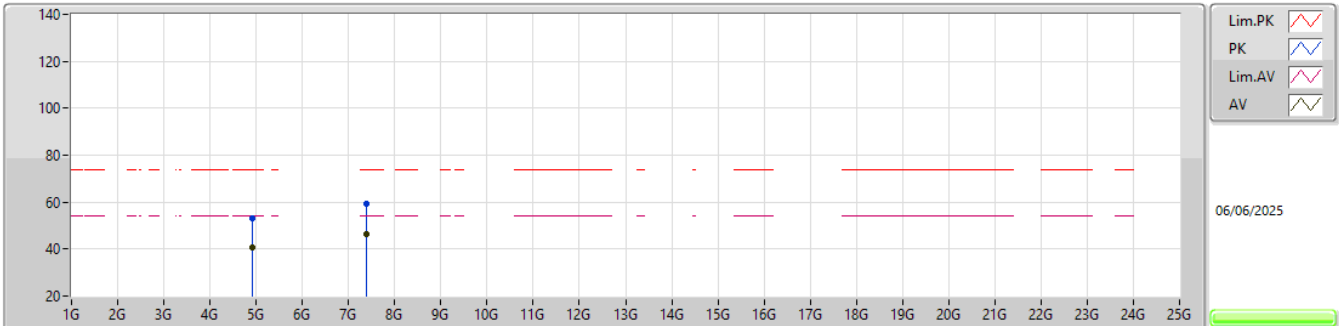


EUT_X_2TX
Setting 15.5
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.92628G	52.39	74.00	-21.61	48.40	3	Vertical	40	3.00	-	31.41	6.56	33.98				
AV	4.924G	40.22	54.00	-13.78	36.24	3	Vertical	40	3.00	-	31.40	6.56	33.98				
PK	7.39116G	56.30	74.00	-17.70	45.41	3	Vertical	12	1.91	-	36.44	8.64	34.19				
AV	7.38834G	43.48	54.00	-10.52	32.58	3	Vertical	12	1.91	-	36.45	8.64	34.19				

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

2462MHz_TX

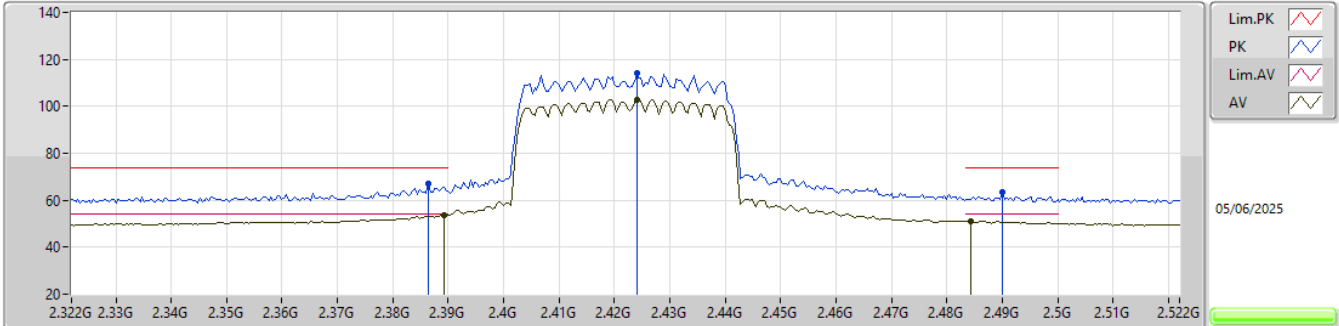


EUT_X_2TX
Setting 15.5
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.92148G	52.87	74.00	-21.13	48.90	3	Horizontal	4	1.80	-	31.39	6.56	33.98				
AV	4.92364G	40.73	54.00	-13.27	36.76	3	Horizontal	4	1.80	-	31.39	6.56	33.98				
PK	7.39104G	59.09	74.00	-14.91	48.20	3	Horizontal	18	1.82	-	36.44	8.64	34.19				
AV	7.38798G	46.46	54.00	-7.54	35.56	3	Horizontal	18	1.82	-	36.45	8.64	34.19				

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

2422MHz_TX

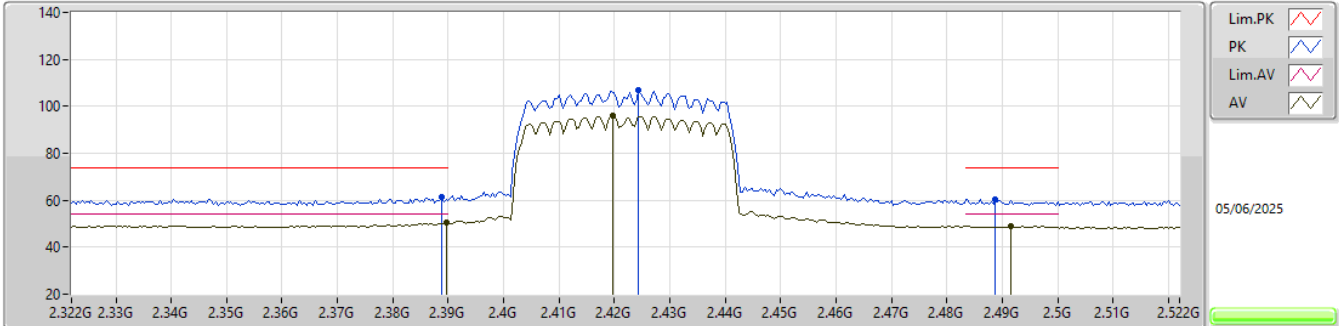


EUT_Z_2TX
Setting 14
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3864G	67.10	74.00	-6.90	34.88	3	Vertical	328	2.23	-	27.60	4.62	-			
AV	2.3892G	53.84	54.00	-0.16	21.62	3	Vertical	328	2.23	-	27.60	4.62	-			
PK	2.424G	114.30	Inf	-Inf	82.13	3	Vertical	328	2.23	-	27.50	4.67	-			
AV	2.424G	102.88	Inf	-Inf	70.71	3	Vertical	328	2.23	-	27.50	4.67	-			
PK	2.49G	63.22	74.00	-10.78	30.94	3	Vertical	328	2.23	-	27.50	4.78	-			
AV	2.4844G	51.02	54.00	-2.98	18.81	3	Vertical	328	2.23	-	27.44	4.77	-			

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

2422MHz_TX

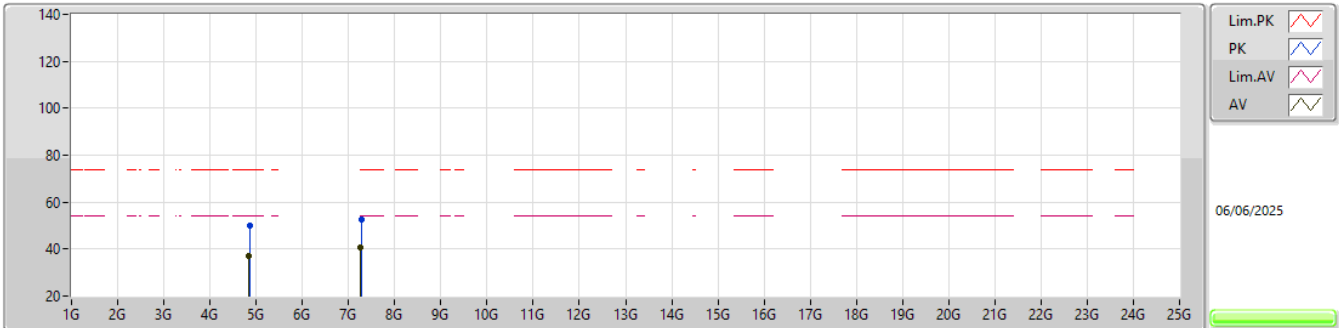


EUT_Z_2TX
Setting 14
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3888G	61.37	74.00	-12.63	29.15	3	Horizontal	81	1.40	-	27.60	4.62	-			
AV	2.3896G	50.38	54.00	-3.62	18.16	3	Horizontal	81	1.40	-	27.60	4.62	-			
PK	2.4244G	107.02	Inf	-Inf	74.85	3	Horizontal	81	1.40	-	27.50	4.67	-			
AV	2.4196G	96.00	Inf	-Inf	63.84	3	Horizontal	81	1.40	-	27.50	4.66	-			
PK	2.4888G	60.31	74.00	-13.69	28.04	3	Horizontal	81	1.40	-	27.49	4.78	-			
AV	2.4916G	48.82	54.00	-5.18	16.55	3	Horizontal	81	1.40	-	27.48	4.79	-			

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

2422MHz_TX

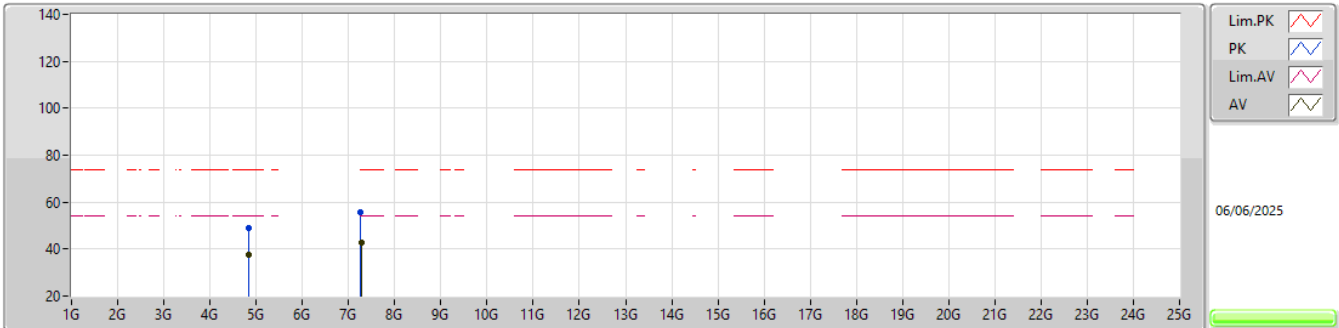


EUT_X_2TX
Setting 14
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.85414G	50.06	74.00	-23.94	46.17	3	Vertical	96	1.76	-	31.30	6.55	33.96				
AV	4.844G	37.24	54.00	-16.76	33.34	3	Vertical	96	1.76	-	31.31	6.55	33.96				
PK	7.28034G	52.51	74.00	-21.49	41.63	3	Vertical	324	1.80	-	36.52	8.55	34.19				
AV	7.26762G	40.93	54.00	-13.07	30.11	3	Vertical	324	1.80	-	36.47	8.54	34.19				

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

2422MHz_TX

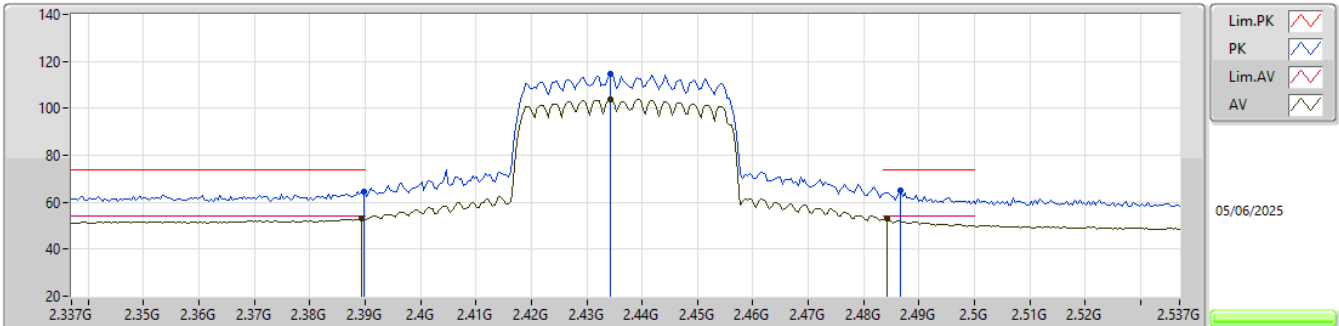


EUT_X_2TX
Setting 14
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.84346G	49.05	74.00	-24.95	45.15	3	Horizontal	328	1.80	-	31.31	6.55	33.96				
AV	4.84088G	37.44	54.00	-16.56	33.53	3	Horizontal	328	1.80	-	31.32	6.55	33.96				
PK	7.26822G	55.84	74.00	-18.16	45.02	3	Horizontal	360	2.51	-	36.47	8.54	34.19				
AV	7.2702G	42.62	54.00	-11.38	31.79	3	Horizontal	360	2.51	-	36.48	8.54	34.19				

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

2437MHz_TX

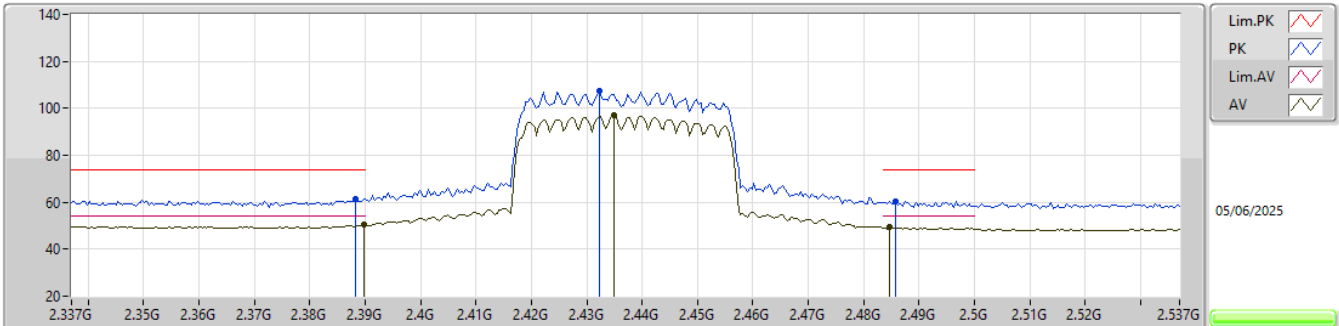


EUT_Z_2TX
Setting 15
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3898G	64.53	74.00	-9.47	32.31	3	Vertical	329	2.23	-	27.60	4.62	-				
AV	2.3894G	53.28	54.00	-0.72	21.06	3	Vertical	329	2.23	-	27.60	4.62	-				
PK	2.4342G	114.88	Inf	-Inf	82.73	3	Vertical	329	2.23	-	27.46	4.69	-				
AV	2.4342G	103.89	Inf	-Inf	71.74	3	Vertical	329	2.23	-	27.46	4.69	-				
PK	2.4866G	64.76	74.00	-9.24	32.51	3	Vertical	329	2.23	-	27.47	4.78	-				
AV	2.4842G	52.96	54.00	-1.04	20.75	3	Vertical	329	2.23	-	27.44	4.77	-				

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

2437MHz_TX

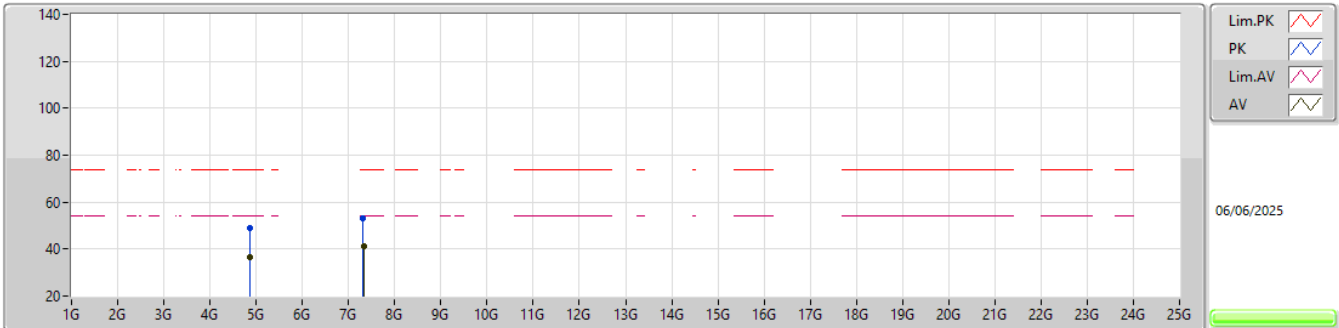


EUT_Z_2TX
Setting 15
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3882G	61.20	74.00	-12.80	28.98	3	Horizontal	76	1.07	-	27.60	4.62	-			
AV	2.3898G	50.58	54.00	-3.42	18.36	3	Horizontal	76	1.07	-	27.60	4.62	-			
PK	2.4322G	107.23	Inf	-Inf	75.07	3	Horizontal	76	1.07	-	27.48	4.68	-			
AV	2.435G	96.82	Inf	-Inf	64.68	3	Horizontal	76	1.07	-	27.45	4.69	-			
PK	2.4858G	60.56	74.00	-13.44	28.32	3	Horizontal	76	1.07	-	27.46	4.78	-			
AV	2.4846G	49.29	54.00	-4.71	17.07	3	Horizontal	76	1.07	-	27.45	4.77	-			

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

2437MHz_TX

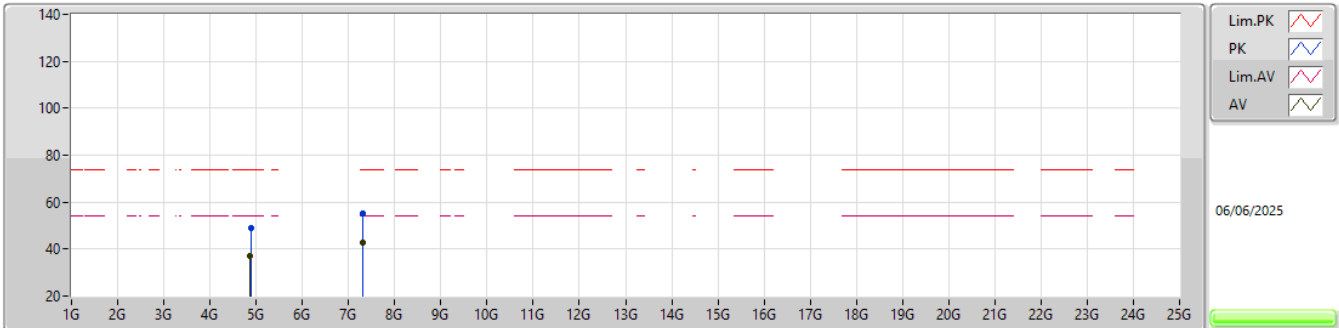


EUT_X_2TX
Setting 15
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.8716G	48.76	74.00	-25.24	44.88	3	Vertical	99	1.72	-	31.30	6.55	33.97				
AV	4.87376G	36.52	54.00	-17.48	32.64	3	Vertical	99	1.72	-	31.30	6.55	33.97				
PK	7.31442G	53.13	74.00	-20.87	42.14	3	Vertical	12	1.79	-	36.60	8.58	34.19				
AV	7.32312G	41.21	54.00	-12.79	30.22	3	Vertical	12	1.79	-	36.60	8.58	34.19				

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

2437MHz_TX

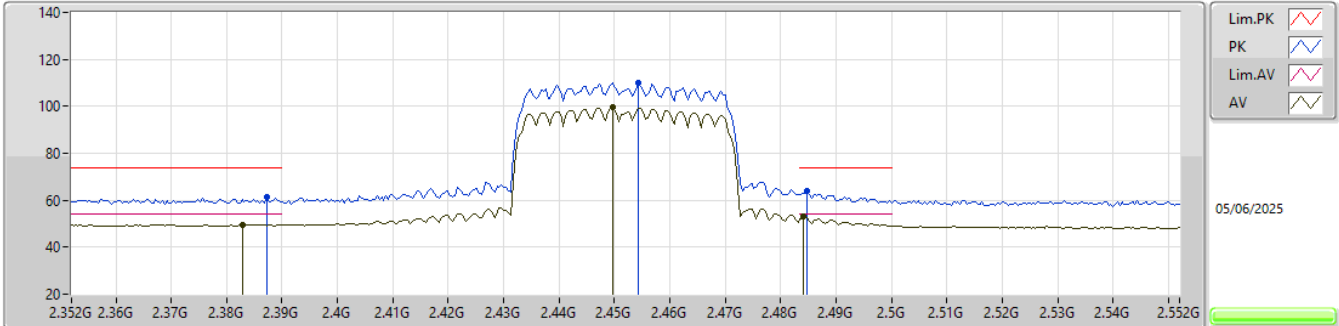


EUT_X_2TX
Setting 15
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87898G	48.96	74.00	-25.04	45.08	3	Horizontal	8	1.75	-	31.30	6.55	33.97			
AV	4.87412G	36.88	54.00	-17.12	33.00	3	Horizontal	8	1.75	-	31.30	6.55	33.97			
PK	7.31808G	55.07	74.00	-18.93	44.08	3	Horizontal	20	1.77	-	36.60	8.58	34.19			
AV	7.3176G	42.65	54.00	-11.35	31.66	3	Horizontal	20	1.77	-	36.60	8.58	34.19			

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

2452MHz_TX

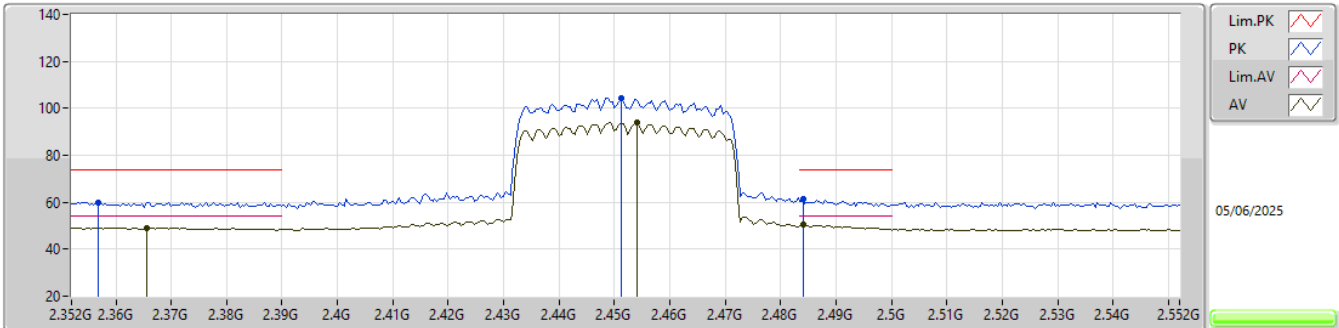


EUT_Z_2TX
Setting 12.5
06-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)					
PK	2.3872G	61.25	74.00	-12.75	29.03	3	Vertical	276	2.32	-	27.60	4.62	-					
AV	2.3828G	49.54	54.00	-4.46	17.32	3	Vertical	276	2.32	-	27.60	4.62	-					
PK	2.4544G	109.99	Inf	-Inf	77.81	3	Vertical	276	2.32	-	27.46	4.72	-					
AV	2.4496G	99.50	Inf	-Inf	67.29	3	Vertical	276	2.32	-	27.50	4.71	-					
PK	2.4848G	64.02	74.00	-9.98	31.80	3	Vertical	276	2.32	-	27.45	4.77	-					
AV	2.484G	53.12	54.00	-0.88	20.91	3	Vertical	276	2.32	-	27.44	4.77	-					

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

2452MHz_TX

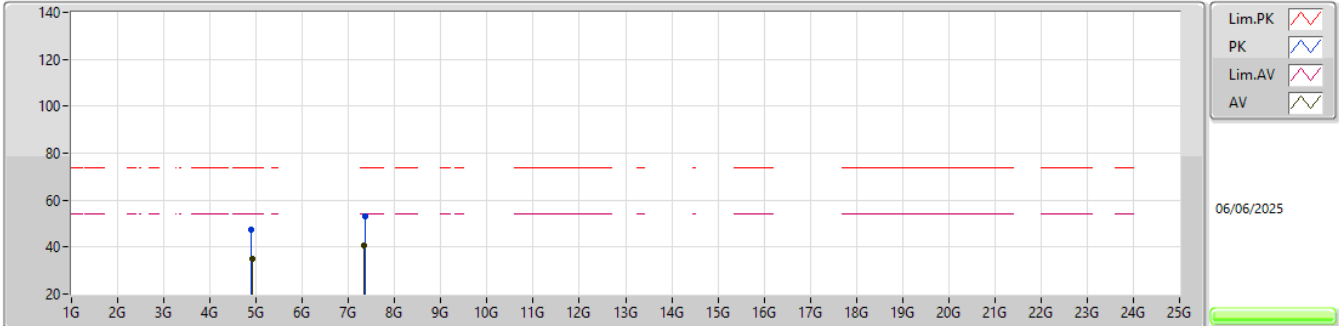


EUT_Z_2TX
Setting 12.5
06-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	2.3568G	59.92	74.00	-14.08	27.52	3	Horizontal	37	2.08	-	27.80	4.60	-			
AV	2.3656G	49.06	54.00	-4.94	16.71	3	Horizontal	37	2.08	-	27.74	4.61	-			
PK	2.4512G	104.46	Inf	-Inf	72.25	3	Horizontal	37	2.08	-	27.49	4.72	-			
AV	2.454G	93.82	Inf	-Inf	61.64	3	Horizontal	37	2.08	-	27.46	4.72	-			
PK	2.484G	61.58	74.00	-12.42	29.37	3	Horizontal	37	2.08	-	27.44	4.77	-			
AV	2.484G	50.41	54.00	-3.59	18.20	3	Horizontal	37	2.08	-	27.44	4.77	-			

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

2452MHz_TX

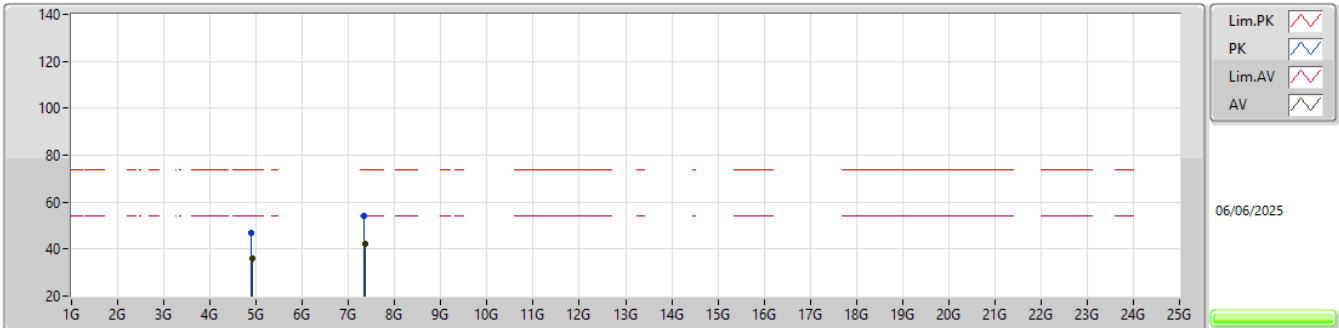


EUT_X_2TX
Setting 12.5
06-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.90232G	47.51	74.00	-26.49	43.61	3	Vertical	113	2.91	-	31.31	6.56	33.97				
AV	4.90418G	35.02	54.00	-18.98	31.11	3	Vertical	113	2.91	-	31.32	6.56	33.97				
PK	7.35234G	53.17	74.00	-20.83	42.16	3	Vertical	16	1.80	-	36.59	8.61	34.19				
AV	7.34604G	40.89	54.00	-13.11	29.88	3	Vertical	16	1.80	-	36.60	8.60	34.19				

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

2452MHz_TX



EUT_X_2TX
Setting 12.5
06-H-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	4.90352G	47.07	74.00	-26.93	43.17	3	Horizontal	9	1.67	-	31.31	6.56	33.97				
AV	4.90604G	36.04	54.00	-17.96	32.13	3	Horizontal	9	1.67	-	31.32	6.56	33.97				
PK	7.34214G	54.01	74.00	-19.99	43.00	3	Horizontal	22	1.77	-	36.60	8.60	34.19				
AV	7.356G	42.00	54.00	-12.00	31.00	3	Horizontal	22	1.77	-	36.58	8.61	34.19				