



RADIO TEST REPORT

FCC ID : 2AVNXCYAF5G
Equipment : AirgainConnect Fleet
Brand Name : Airgain
Model Name : CY-AF5G-B-NAT
Applicant : Airgain, Inc.
3611 Valley Centre Drive, Ste. 150, San Diego, CA 92130 USA
Manufacturer : MitraStar Technology Corporation
No. 6, Innovation Rd II, Science-Based Industrial, Hsin-Chu, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Apr. 29, 2024, and testing was started from May 02, 2024 and completed on Jun. 04, 2024. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	8
1.3 Testing Location Information	8
1.4 Measurement Uncertainty	9
2 Test Configuration of EUT.....	10
2.1 Test Channel Mode	10
2.2 The Worst Case Measurement Configuration.....	11
2.3 EUT Operation during Test	12
2.4 Accessories	12
2.5 Support Equipment.....	12
2.6 Test Setup Diagram	13
3 Transmitter Test Result	15
3.1 DTS Bandwidth	15
3.2 Maximum Conducted Output Power	16
3.3 Power Spectral Density	19
3.4 Emissions in Non-restricted Frequency Bands	21
3.5 Emissions in Restricted Frequency Bands.....	22
4 Test Equipment and Calibration Data	26
Appendix A. Test Results of DTS Bandwidth	
Appendix B. Test Results of Maximum Conducted Output Power	
Appendix C. Test Results of Power Spectral Density	
Appendix D. Test Results of Emissions in Non-restricted Frequency Bands	
Appendix E. Test Results of Emissions in Restricted Frequency Bands	
Appendix F. Test Results of Radiated Emission Co-location	
Appendix G. Test Photos	
Photographs of EUT v01	



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 27
Issued Date : Jul. 15, 2024
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	-
-	15.207	AC Power-line Conducted Emissions	N/A	Note
3.1	15.247(a)	DTS Bandwidth	PASS	-
3.2	15.247(b)	Maximum Conducted Output Power	PASS	-
3.3	15.247(e)	Power Spectral Density	PASS	-
3.4	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.5	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-
Note: The EUT was supplied power by vehicle battery (12~24Vdc); it's not necessary to apply to AC Power-line Conducted Emissions tests.				

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: Muse Chan



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), ax (HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), 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	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11n HT40	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.
- ♦ 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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Airgain	M03AGDKE-LA1X82BU	Monopole	I-PEX	Note 1
2	Airgain	M03AGDKF-LR1X190BU	Monopole	I-PEX	
3	Airgain	M03AGDKG-LK1X137BU	Monopole	I-PEX	
4	Airgain	CH56AGDKZ F56AGDKA-LB1X132BU4LI	Monopole	I-PEX	
5	Airgain	CH56AGDKZ F56AGDKB-LB1X130BU4LI	Monopole	I-PEX	
6	Airgain	N54AGDKC-LY1X255BU4LI	Monopole	I-PEX	
7	Airgain	N54AGDKJ-LE1X272BU4LI	Monopole	I-PEX	



Note 1:

Ant.	Port		Antenna Gain (dBi)				
	WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz			
				UNII 1	UNII 2A	UNII 2C	UNII 3
1	1	1	2.96	4.26	3.77	4.92	4.62
2	2	2	5.07	4.24	4.38	5.94	4.07

Ant.	Port		Antenna Gain (dBi)		
	Bluetooth		2400MHz	2440MHz	2480MHz
3	1		6.30	6.00	5.30

Item	Directional Gain (dBi)				
	WLAN 2.4GHz	WLAN 5GHz			
		UNII 1	UNII 2A	UNII 2C	UNII 3
2T1S	5.16	5.93	5.87	8.18	7.17
2T2S	5.07	4.26	4.38	5.94	4.62

For Ant. 4~7:

Antenna Gain (dBi)																		
WCDMA			LTE															
B2	B4	B5	B2	B4	B5	B7	B12	B13	B14	B25	B26	B29	B38	B41	B42	B48	B66	B71
5.4	5.9	2.3	5.4	5.9	2.3	5.7	1.6	2.2	2.2	5.4	2.3	2.0	5.8	5.7	4.7	5.9	5.9	1.5

Antenna Gain (dBi)								
5G NR								
n2	n5	n25	n41	n48	n66	n71	n77	n78
5.4	2.3	5.4	5.7	5.9	5.9	1.5	6.7	6.7

Note 2: The above information (except WLAN antenna gain and directional gain) was declared by manufacturer.

Note 3: The antenna gain and directional gain are measured which follow the procedure of KDB 662911 D03.

Note 4: **For 2.4GHz function:****For IEEE 802.11 b/g/n/ax (2TX/2RX):**

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

Port 1~2 could transmit/receive simultaneously.

For 5GHz function:**For IEEE 802.11 a/n/ac/ax (2TX/2RX):**

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

Port 1~2 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) $\geq 1/T$
802.11b_Nss 1,(1D)	0.983	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g_Nss 1,(6D)	0.993	0.03	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW20_Nss 1,(M0)	0.997	0.01	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40_Nss 1,(M0)	0.997	0.01	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From vehicle battery (12~24Vdc)			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	QSPR V5.0-00202			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT Supports Functions

Function	Support Type	Supports Band
AP Router	Master	2.4GHz and 5GHz UNII 2A~3
Slave	Slave without radar detection	2.4GHz and 5GHz UNII 1~3

Note: The above information was declared by manufacturer.

1.1.6 Table of WWAN Module

The EUT contains WCDMA, LTE, 5G NR modules, the detail information as following.

Brand Name	Model Name	FCC ID	Function
Telit	FN990A28	RI7FN990A28	WCDMA: Band 2/4/5 LTE: Band 2/4/5/7/12/13/14/25/26/29/38/41/42/48/66/71 5G NR: Band n2/n5/n25/n41/n48/n66/n71/n77/n78



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 D03 v01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Richard Pai	22.8~24 / 61~65	May 11, 2024~ May 14, 2024
Radiated Below 1G	03CH05-CB	Jackson Peng	22-23 / 55-58	May 02, 2024~ Jun. 04, 2024
Radiated Above 1G	03CH04-CB		22.7-23.8 / 56-59	
Radiated co-location emission	03CH05-CB		22-23 / 55-58	



1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Date: Date Before May 28, 2024

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%
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	2.2%	Confidence levels of 95%

Test Date: After May 27, 2024

Test Items	Uncertainty	Remark
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%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
802.11b_Nss1,(1Mbps)_2TX
2412MHz
2437MHz
2462MHz
802.11g_Nss1,(6Mbps)_2TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz
802.11ax HEW20_Nss1,(MCS0)_2TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz
802.11ax HEW40_Nss1,(MCS0)_2TX
2422MHz
2437MHz
2452MHz

Note:

- ♦ HEW20 / HEW40 covers HT20 / HT40 due to similar modulation. The power setting for HT20 / HT40 is the same or lower than HEW20 / HEW40.

2.2 The Worst Case Measurement Configuration

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
	After evaluating, EUT in Z axis was the worst case, so the measurement will follow this same test configuration.
	1 EUT in Z axis_WLAN 2.4GHz
	2 EUT in Z axis_WLAN 5GHz
	3 EUT in Z axis_Bluetooth
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	After evaluating, EUT in Z axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Z axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	After evaluating, EUT in Z axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Z axis_WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix F for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth + WWAN
Refer to Sporton Test Report No.: FA441623-01 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

Coupler*1

2.5 Support Equipment

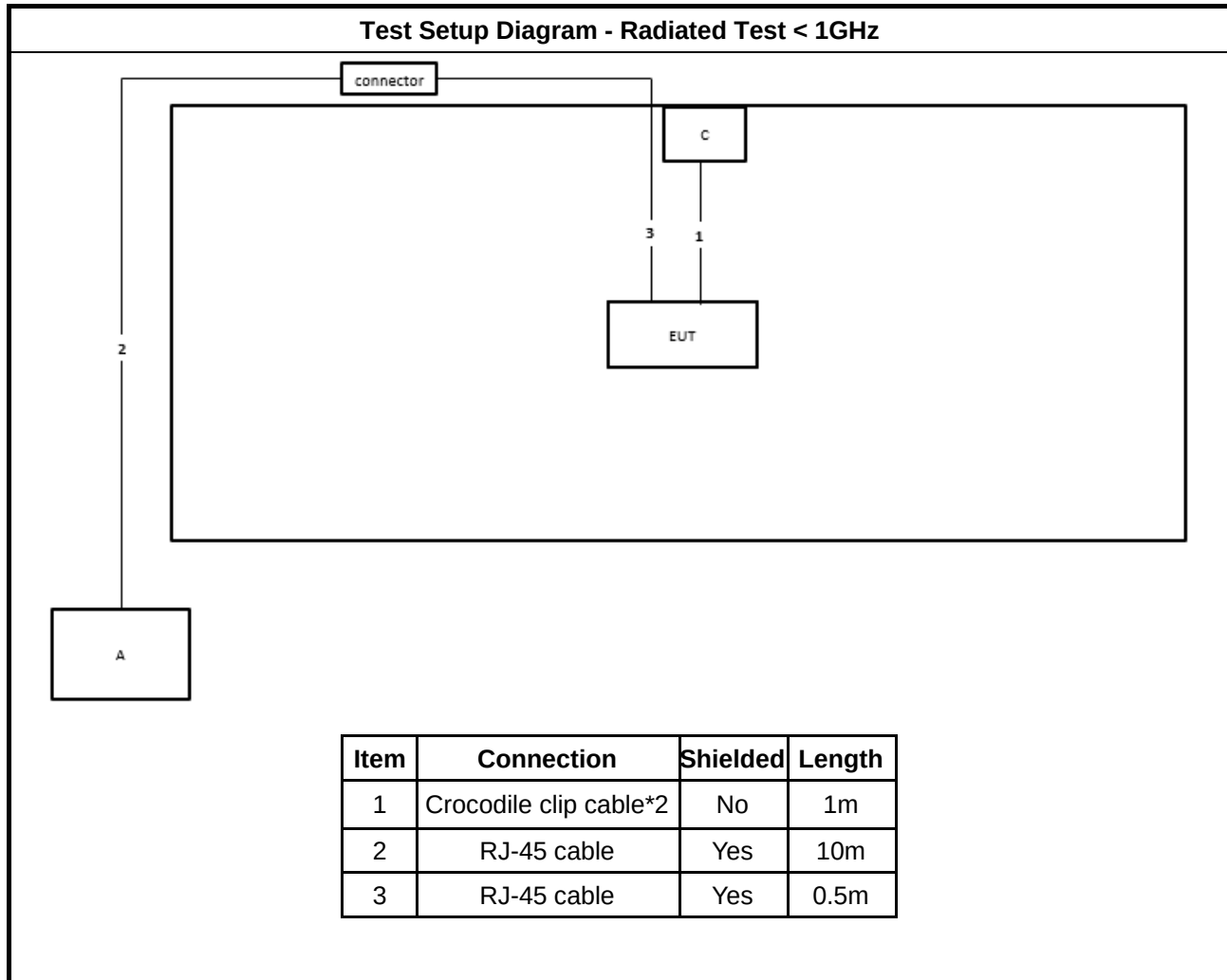
For Radiated (below 1GHz):

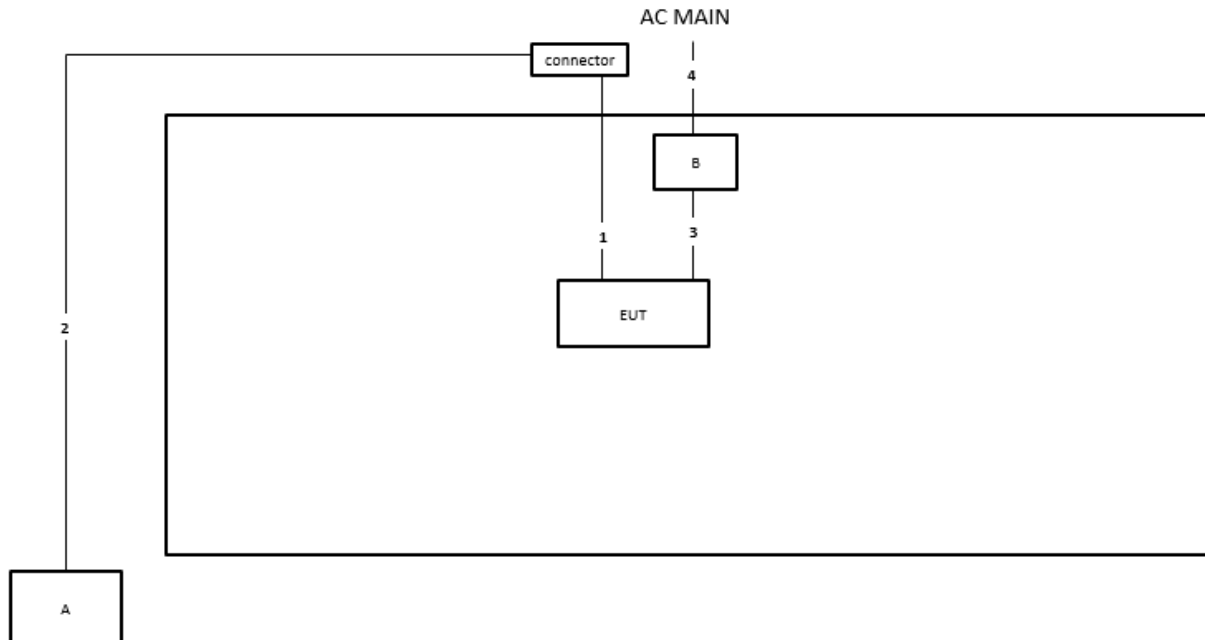
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
C	Battery	YUASA	38B19L-MF	N/A

For Radiated (above 1GHz) and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	DC Power Supply	MOTECH	LPS-305	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	Yes	0.5m
2	RJ-45 cable	Yes	10m
3	Crocodile clip cable*2	No	1m
4	Power cable	No	1m

3 Transmitter Test Result

3.1 DTS Bandwidth

3.1.1 6dB Bandwidth Limit

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

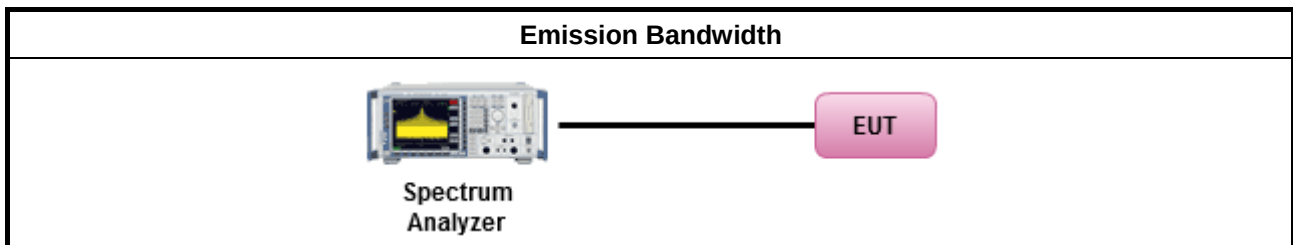
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as 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.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

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

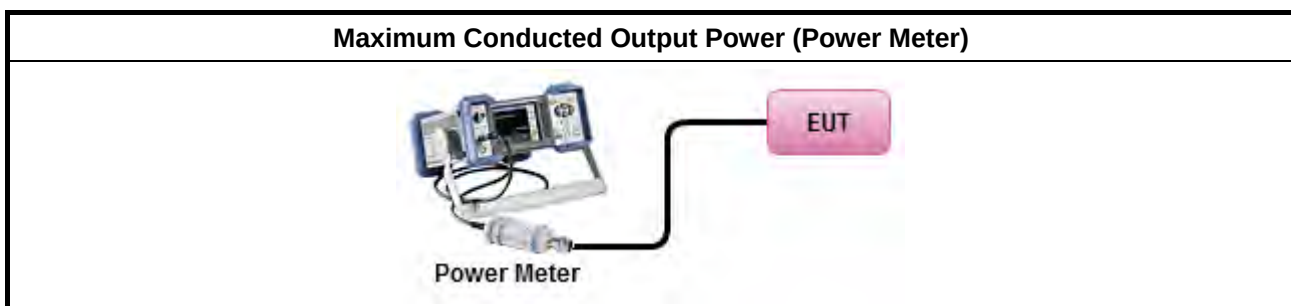
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as 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]) $EIRP_{total} = P_{total} + DG$	

3.2.4 Test Setup





3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Power Spectral Density

3.3.1 Power Spectral Density Limit

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

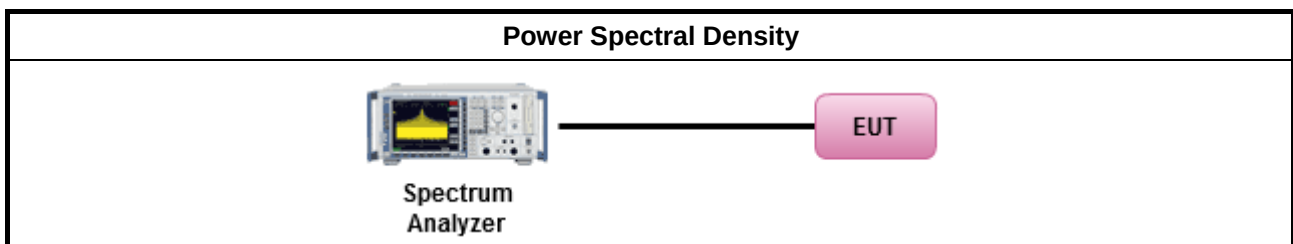
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as 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.

3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Refer as Appendix C

3.4 Emissions in Non-restricted Frequency Bands

3.4.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (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.	

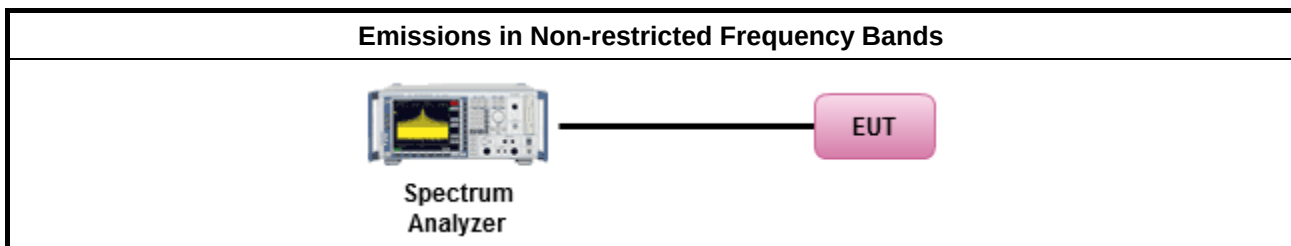
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix D

3.5 Emissions in Restricted Frequency Bands

3.5.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.5.2 Measuring Instruments

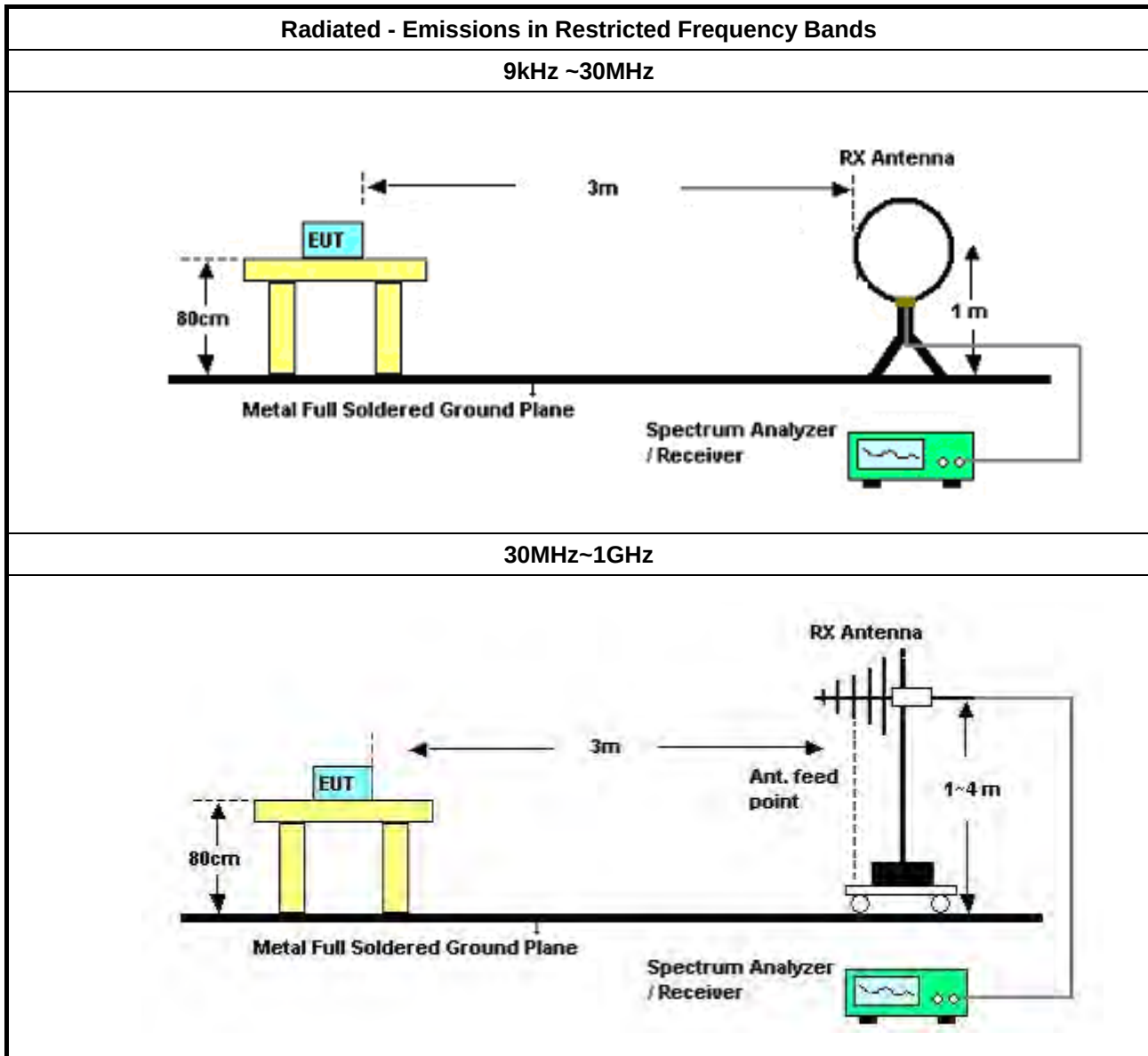
Refer a test equipment and calibration data table in this test report.

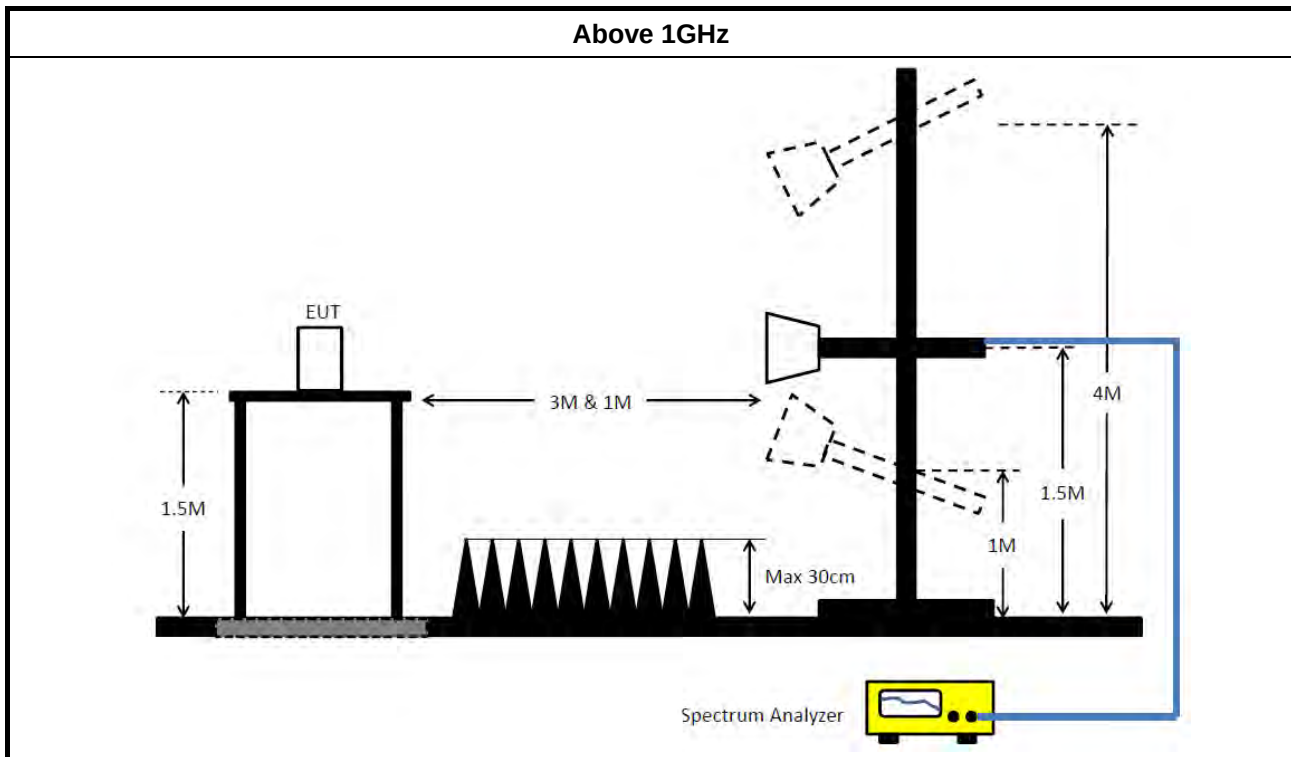


3.5.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as 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.

3.5.4 Test Setup





3.5.5 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.

3.5.6 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.

3.5.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
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	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Jun. 30, 2023	Jun. 29, 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 02, 2024	May 01, 2025	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	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. 17, 2024	Apr. 16, 2025	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-28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 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)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 22, 2024	Feb. 21, 2025	Radiation (03CH04-CB)
Horn Antenna	ETS-Lindgren	3115	00143147	750MHz~18GHz	Oct. 04, 2023	Oct. 03, 2024	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 19, 2024	Mar. 18, 2025	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 29, 2023	May 28, 2024	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Mar. 01, 2024	Feb. 28, 2025	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Mar. 04, 2024	Mar. 03, 2025	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

NCR means Non-Calibration required.

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	9.8M	17.166M	17M2G1D	7.55M	13.028M
802.11g_Nss1,(6Mbps)_2TX	16.425M	27.178M	27M2D1D	15.125M	16.338M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.05M	20.965M	21M0D1D	18.8M	18.816M
802.11ax HEW40_Nss1,(MCS0)_2TX	38.1M	37.781M	37M8D1D	36.35M	37.631M

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	7.625M	13.508M	8.05M	13.028M
2437MHz	Pass	500k	9.55M	16.222M	9.8M	17.166M
2462MHz	Pass	500k	7.975M	13.223M	7.55M	13.178M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.275M	16.338M	16.375M	16.404M
2437MHz	Pass	500k	16.375M	25.837M	15.125M	27.178M
2462MHz	Pass	500k	16.375M	16.36M	16.425M	16.382M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	19.025M	18.816M	18.8M	18.891M
2437MHz	Pass	500k	19.05M	19.44M	19.025M	20.965M
2462MHz	Pass	500k	18.85M	18.816M	18.975M	18.941M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	36.35M	37.681M	38.05M	37.681M
2437MHz	Pass	500k	38M	37.681M	38.05M	37.781M
2452MHz	Pass	500k	37.55M	37.781M	38.1M	37.631M

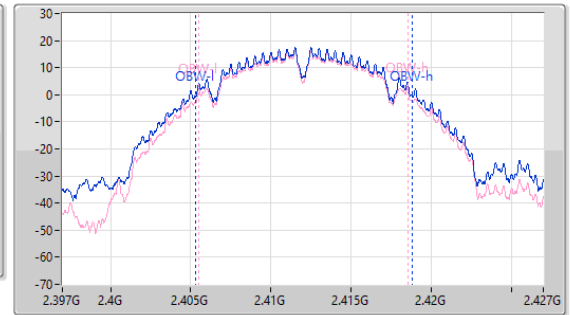
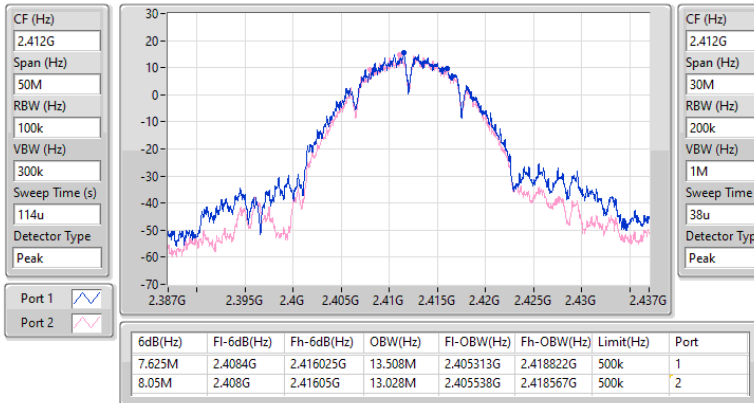
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

2412MHz

14/05/2024

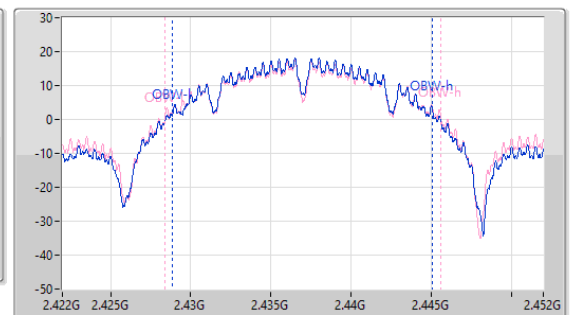
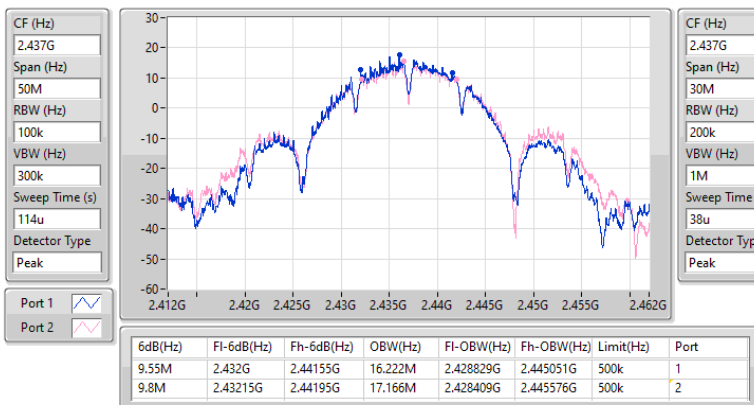


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

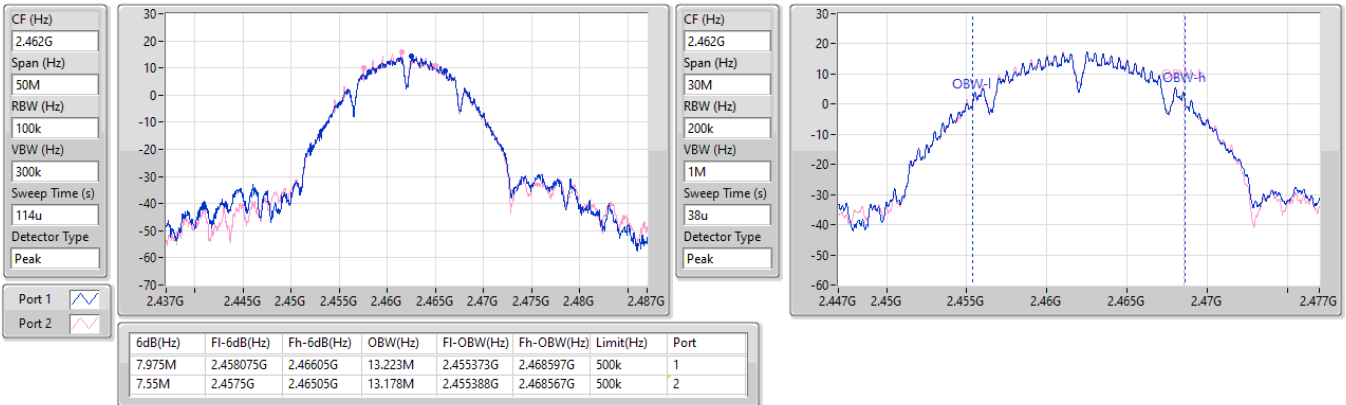
2437MHz

14/05/2024

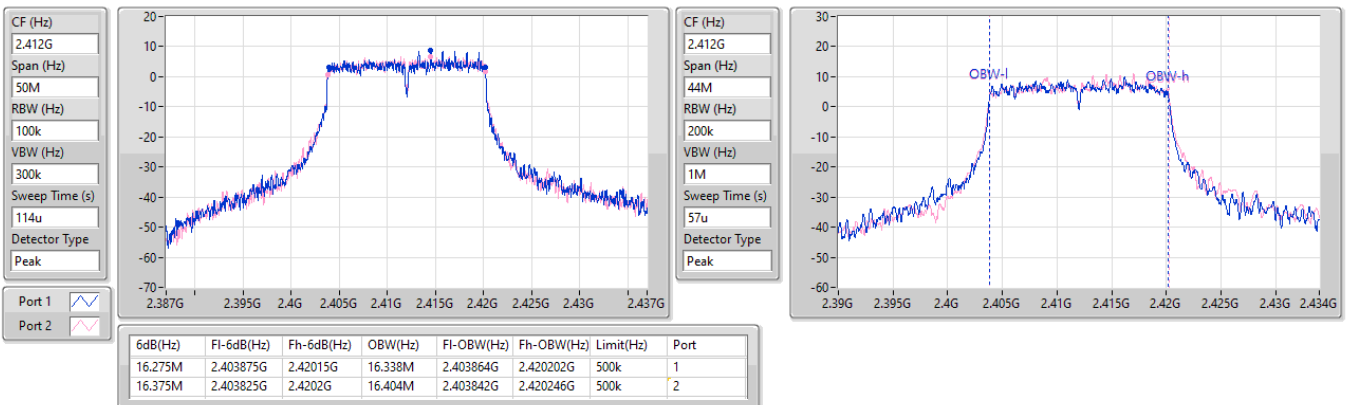


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

14/05/2024

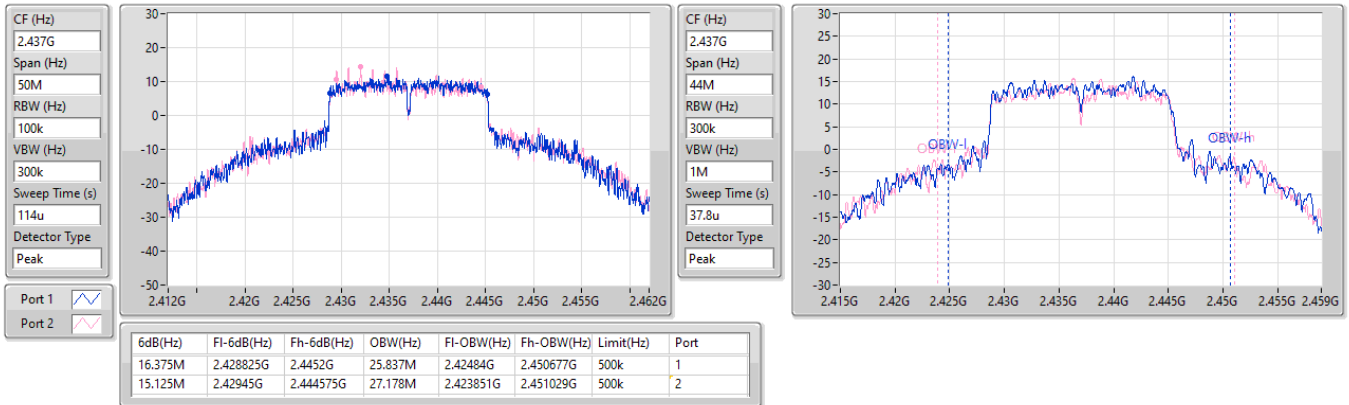

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

14/05/2024

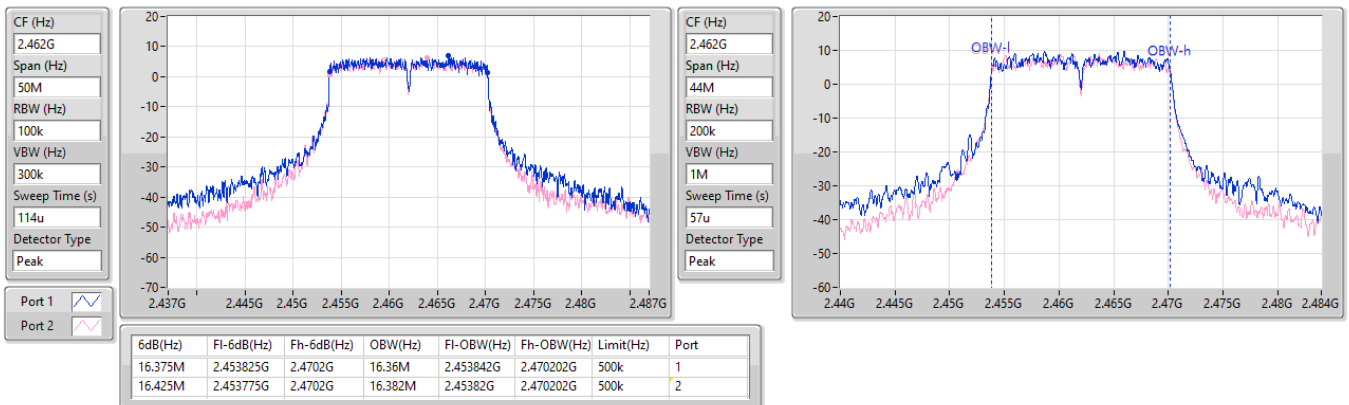


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

14/05/2024


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

14/05/2024

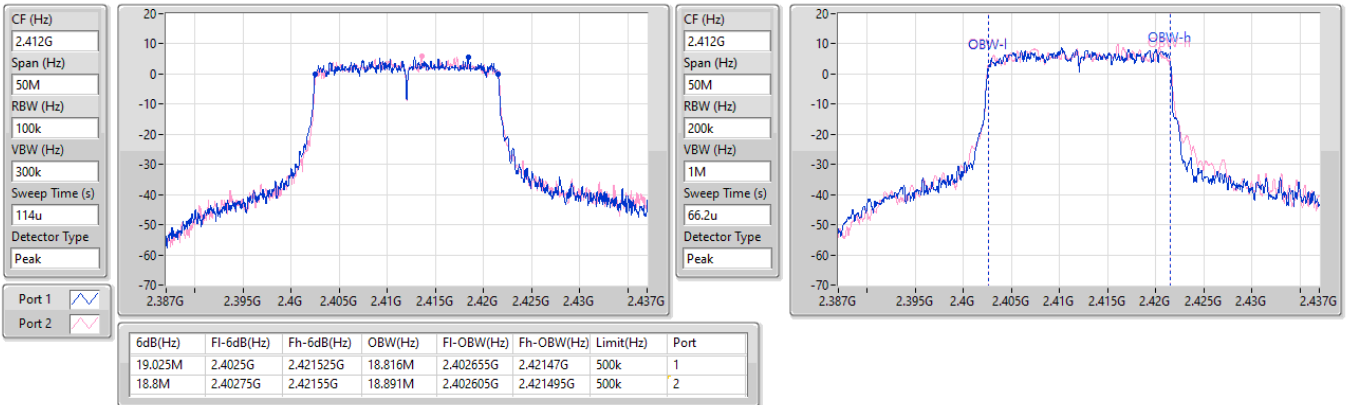


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

2412MHz

14/05/2024

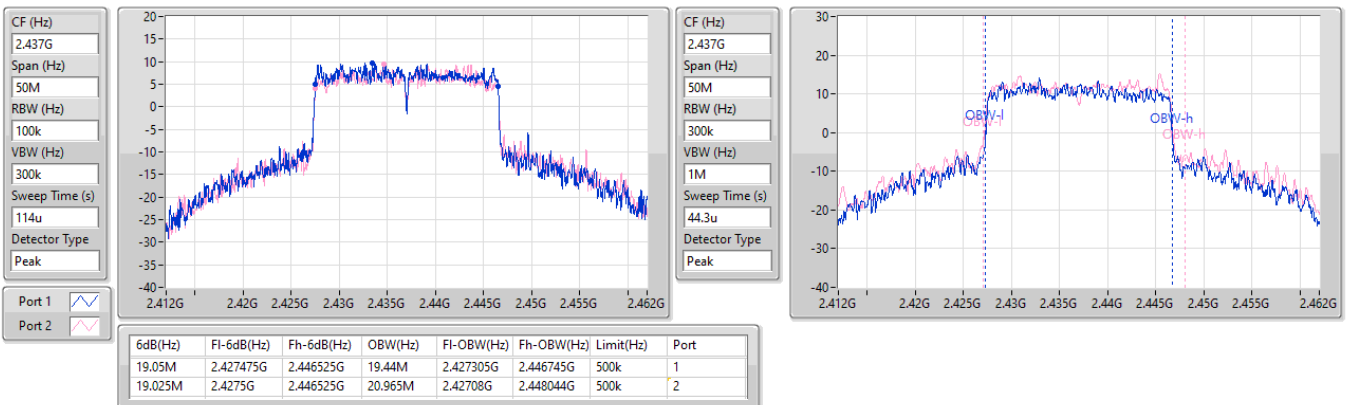


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

2437MHz

14/05/2024

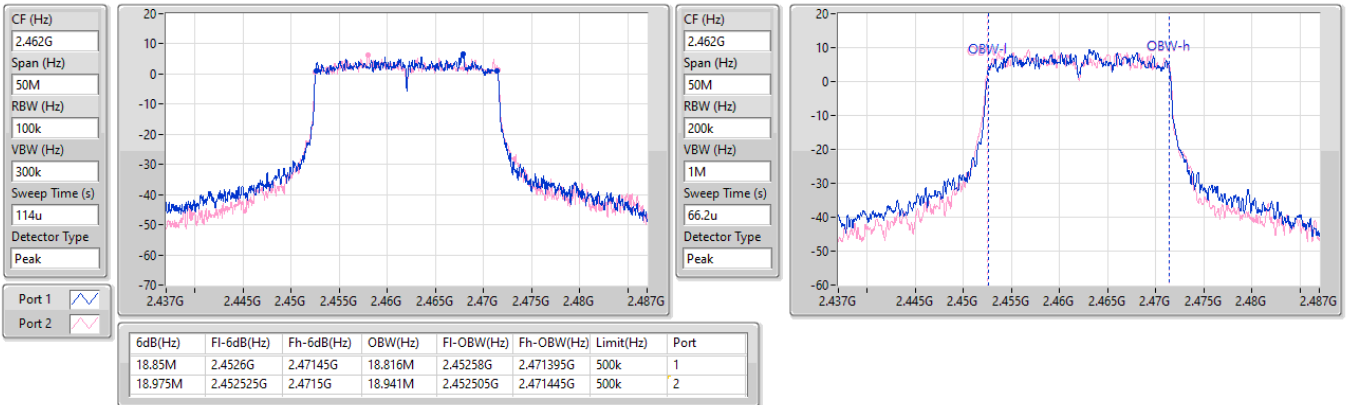


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2462MHz

14/05/2024

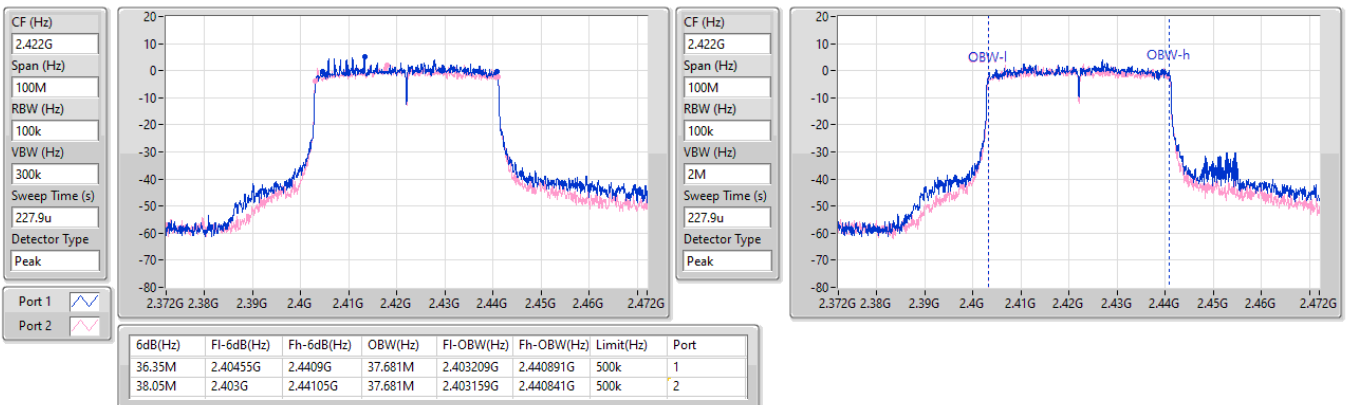


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2422MHz

14/05/2024

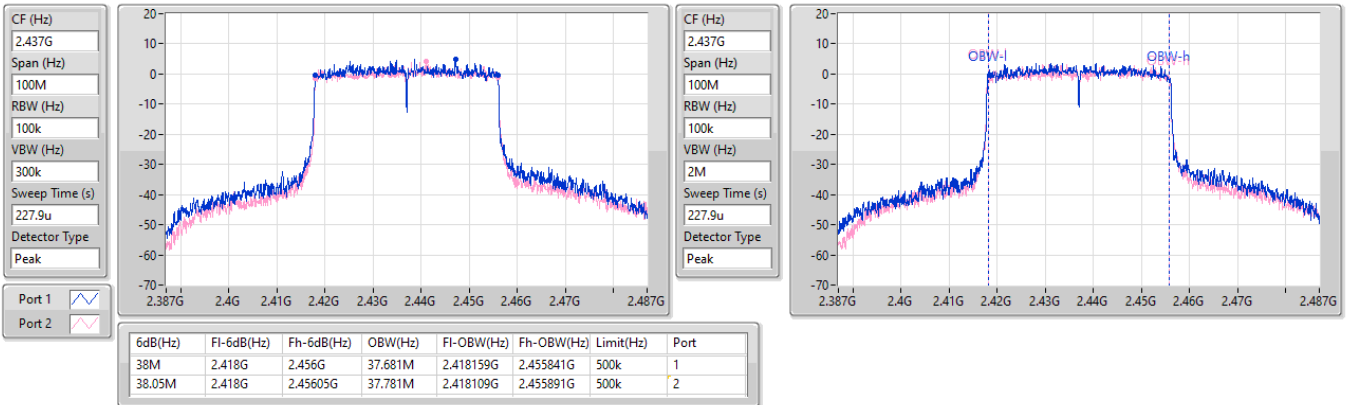


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2437MHz

14/05/2024

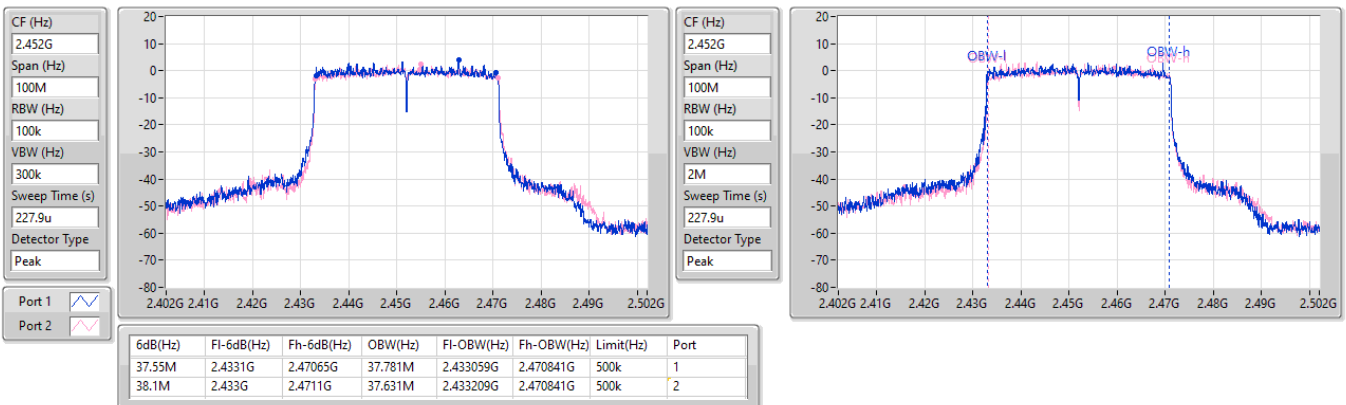


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2452MHz

14/05/2024





Average Power

Appendix B

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	29.65	0.92257
802.11g_Nss1,(6Mbps)_2TX	28.38	0.68865
802.11ax HEW20_Nss1,(MCS0)_2TX	27.47	0.55847
802.11ax HEW40_Nss1,(MCS0)_2TX	23.99	0.25061

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.07	25.25	24.27	27.80	30.00
2437MHz	Pass	5.07	26.98	26.26	29.65	30.00
2462MHz	Pass	5.07	25.02	25.27	28.16	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.07	20.63	20.95	23.80	30.00
2417MHz	Pass	5.07	22.43	23.00	25.73	30.00
2437MHz	Pass	5.07	25.68	25.04	28.38	30.00
2457MHz	Pass	5.07	22.81	22.19	25.52	30.00
2462MHz	Pass	5.07	21.14	20.78	23.97	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.07	20.03	20.27	23.16	30.00
2417MHz	Pass	5.07	23.07	23.57	26.34	30.00
2437MHz	Pass	5.07	24.81	24.07	27.47	30.00
2457MHz	Pass	5.07	20.88	20.74	23.82	30.00
2462MHz	Pass	5.07	20.46	20.13	23.31	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.07	20.42	19.49	22.99	30.00
2437MHz	Pass	5.07	21.25	20.69	23.99	30.00
2452MHz	Pass	5.07	20.14	19.80	22.98	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	4.02
802.11g_Nss1,(6Mbps)_2TX	0.32
802.11ax HEW20_Nss1,(MCS0)_2TX	-0.79
802.11ax HEW40_Nss1,(MCS0)_2TX	-6.97

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	5.16	1.33	0.66	4.02	8.00
2437MHz	Pass	5.16	1.28	0.46	3.50	8.00
2462MHz	Pass	5.16	1.09	1.92	2.82	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.16	-6.25	-6.36	-4.63	8.00
2437MHz	Pass	5.16	-1.64	-1.91	0.32	8.00
2462MHz	Pass	5.16	-5.20	-6.22	-4.05	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.16	-6.68	-6.86	-5.66	8.00
2437MHz	Pass	5.16	-2.23	-2.98	-0.79	8.00
2462MHz	Pass	5.16	-7.18	-6.56	-5.10	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.16	-9.42	-9.66	-8.26	8.00
2437MHz	Pass	5.16	-8.01	-9.21	-6.97	8.00
2452MHz	Pass	5.16	-9.46	-9.42	-7.84	8.00

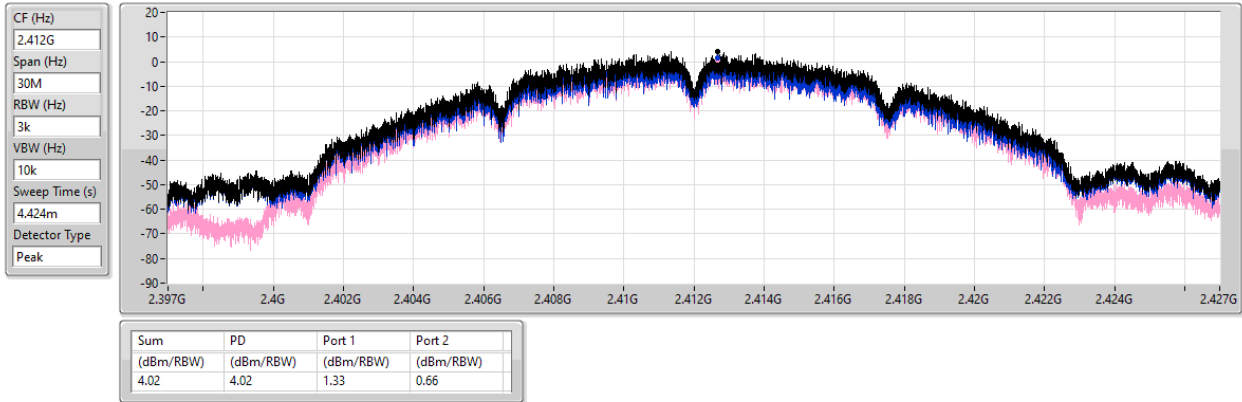
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

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

PSD

2412MHz

14/05/2024

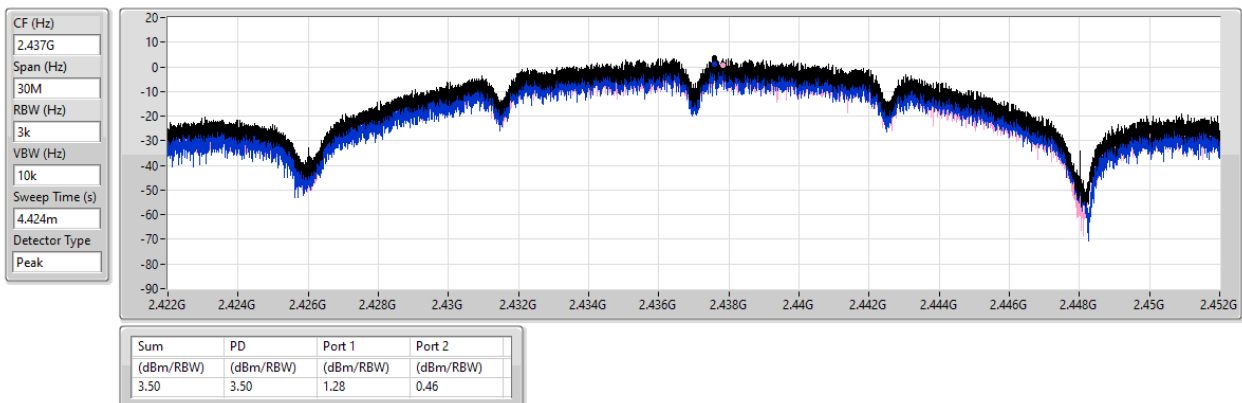


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

14/05/2024

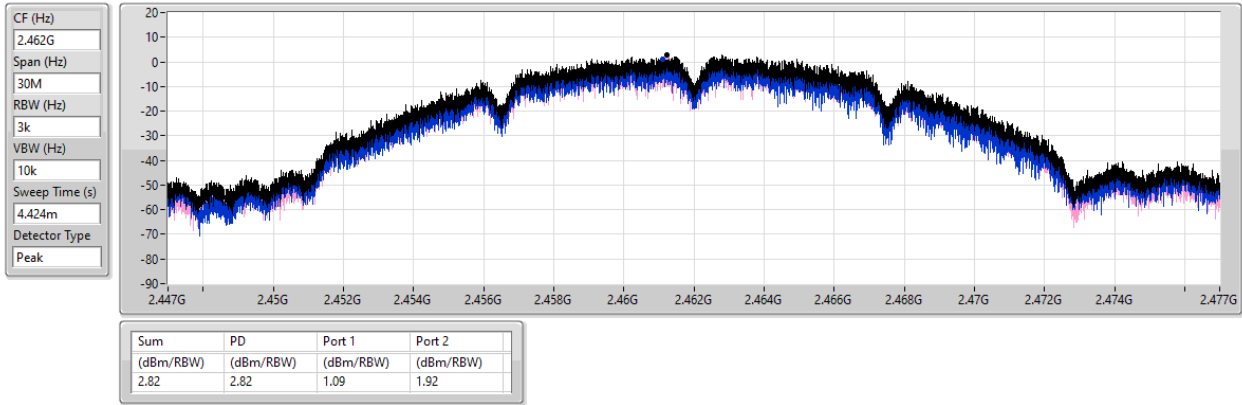


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

14/05/2024

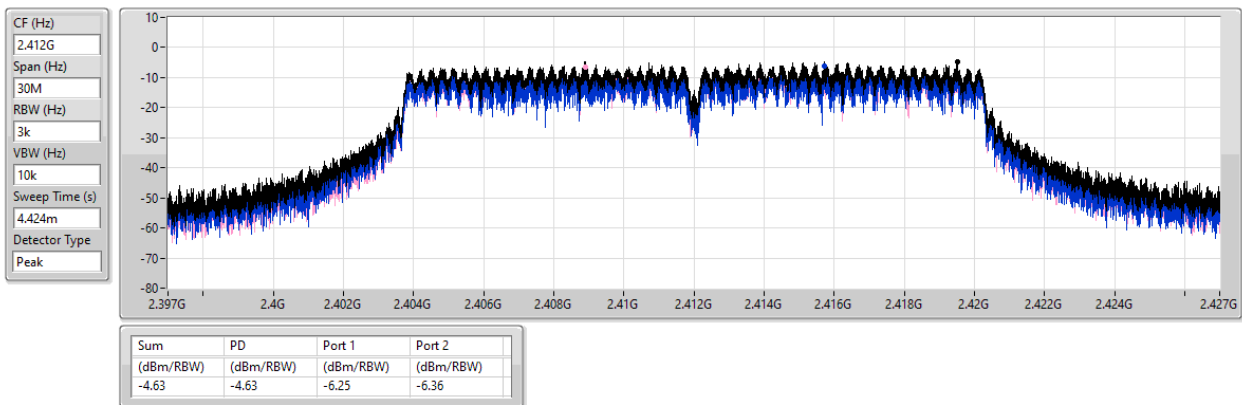


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

14/05/2024

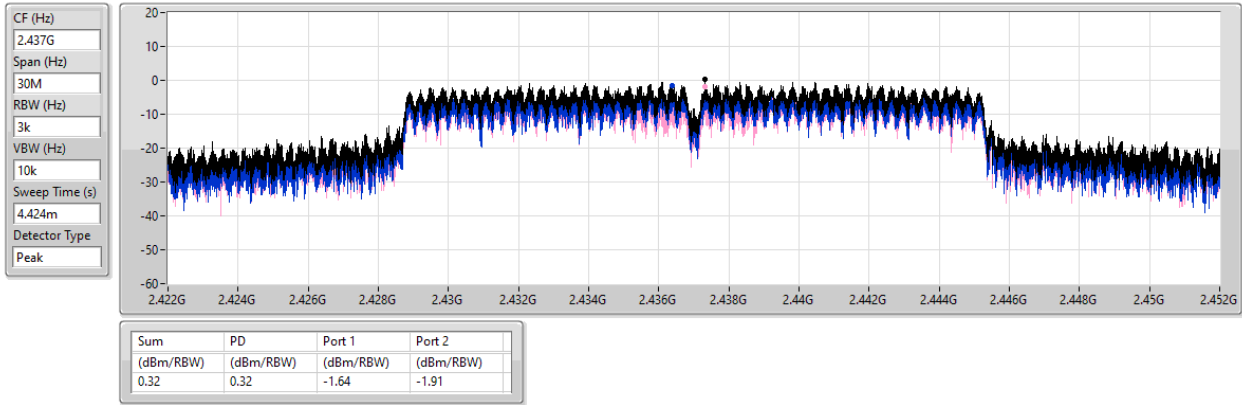


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

14/05/2024

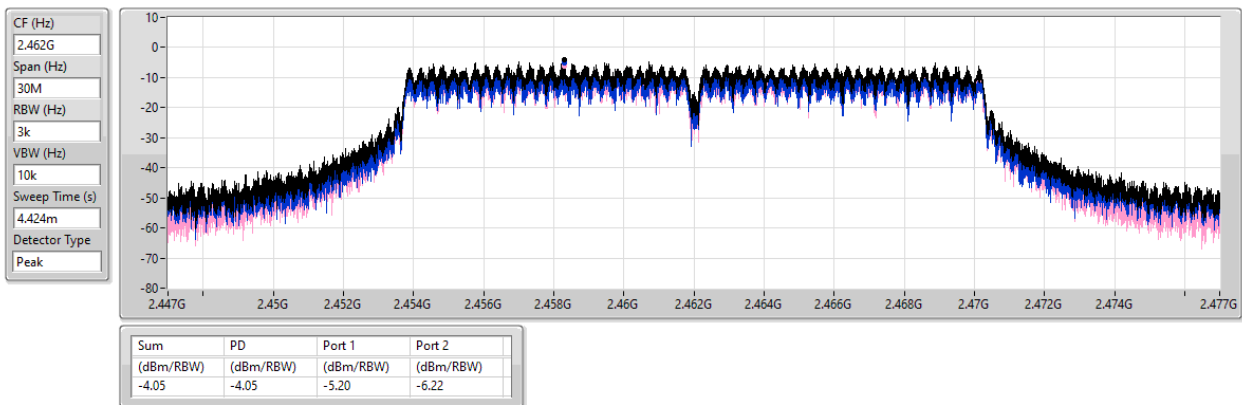


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

14/05/2024

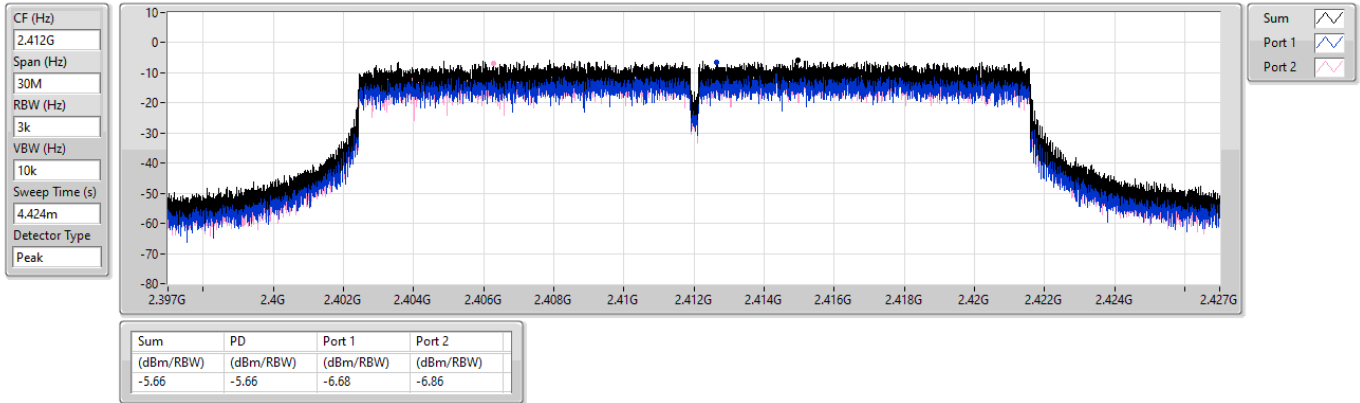


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2412MHz

14/05/2024

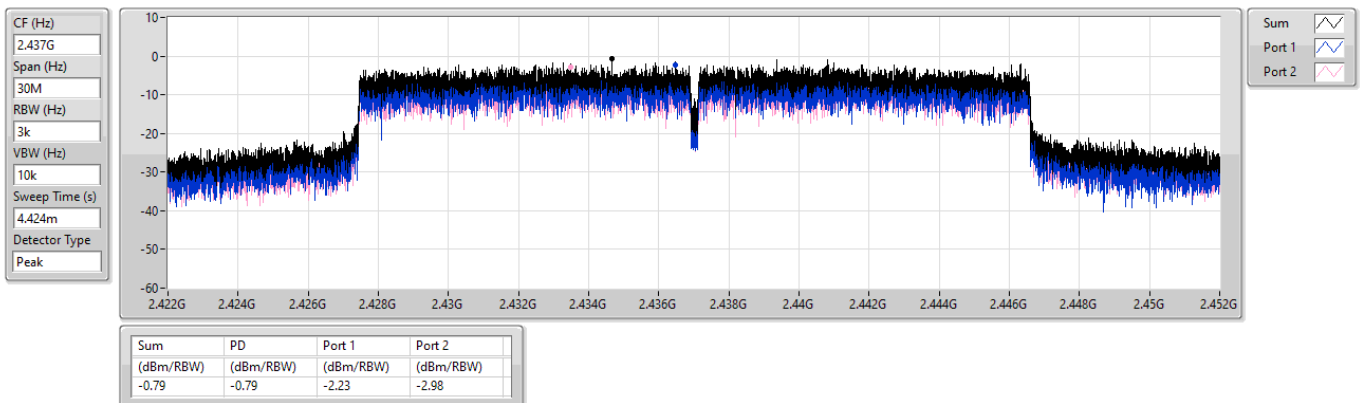


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2437MHz

14/05/2024

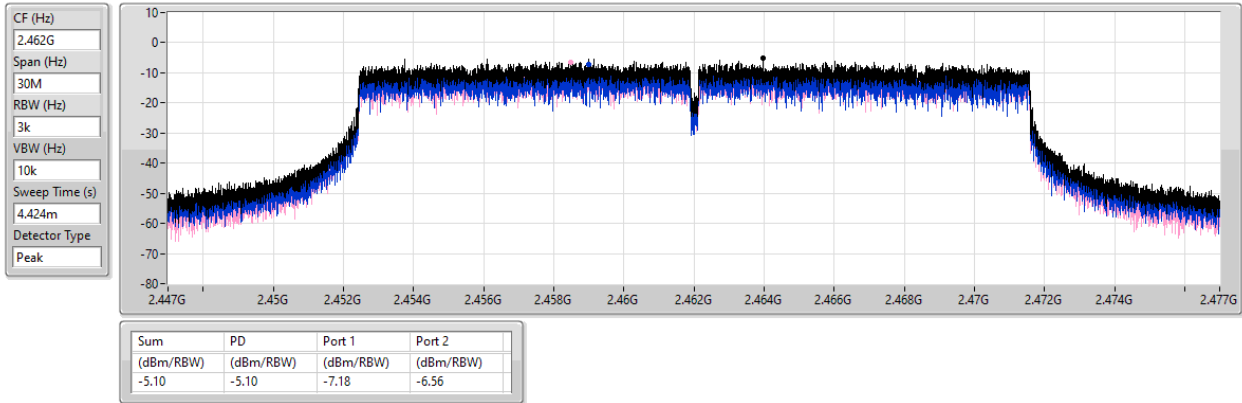


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

14/05/2024

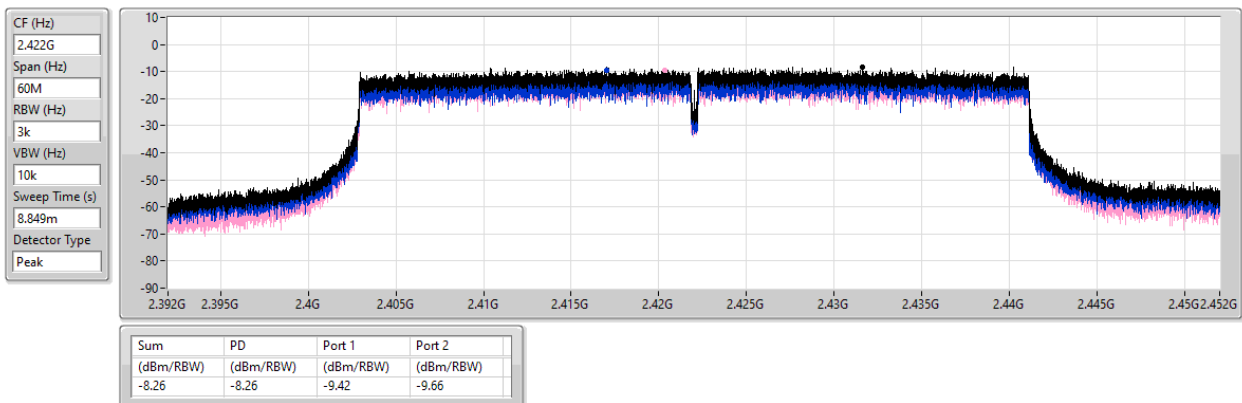


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2422MHz

14/05/2024

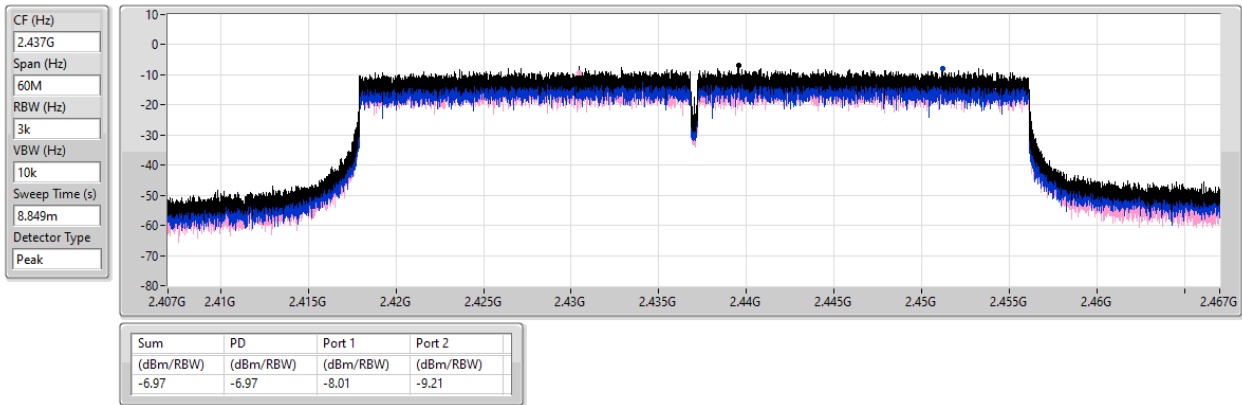


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2437MHz

14/05/2024

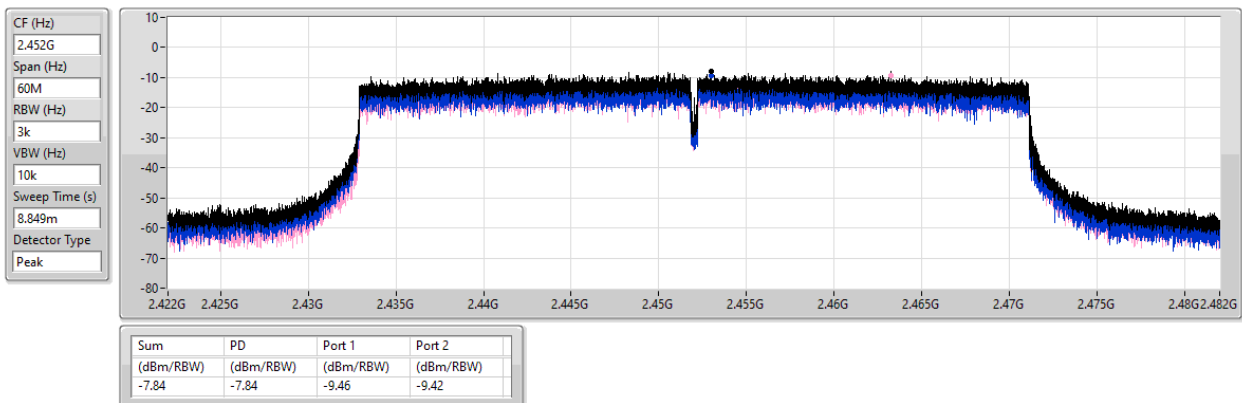


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2452MHz

14/05/2024





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	2.43607G	16.83	-13.17	2.12817G	-51.86	2.39952G	-28.62	2.4G	-32.53	2.52262G	-51.55	16.23417G	-43.75	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.4319G	14.72	-15.28	1.98138G	-52.23	2.39968G	-27.86	2.4G	-27.70	2.51942G	-51.48	16.44207G	-44.84	2
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.44192G	13.87	-16.13	849M	-53.01	2.39944G	-29.58	2.4G	-28.71	2.5055G	-51.69	16.20045G	-45.54	2
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.43958G	6.51	-23.49	2.09444G	-51.05	2.39952G	-34.08	2.4G	-34.29	2.5131G	-51.74	6.85729G	-45.38	1

Result

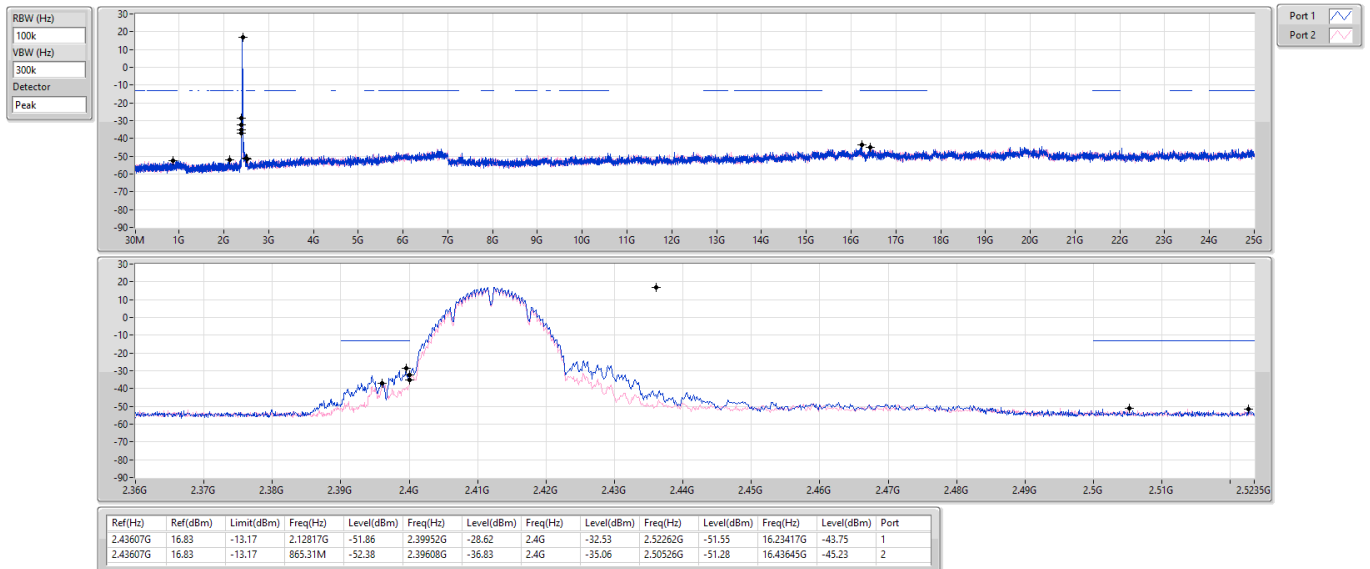
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43607G	16.83	-13.17	2.12817G	-51.86	2.39952G	-28.62	2.4G	-32.53	2.52262G	-51.55	16.23417G	-43.75	1
2412MHz	Pass	2.43607G	16.83	-13.17	865.31M	-52.38	2.39608G	-36.83	2.4G	-35.06	2.50526G	-51.28	16.43645G	-45.23	2
2437MHz	Pass	2.43607G	16.83	-13.17	1.97555G	-52.54	2.39952G	-39.28	2.4G	-40.01	2.51654G	-51.74	16.20326G	-45.26	1
2437MHz	Pass	2.43607G	16.83	-13.17	945.69M	-52.56	2.39952G	-32.89	2.4G	-33.48	2.51774G	-52.57	16.46736G	-46.17	2
2462MHz	Pass	2.43607G	16.83	-13.17	931.71M	-51.90	2.3924G	-50.22	2.4G	-51.04	2.5091G	-51.77	16.47017G	-46.15	1
2462MHz	Pass	2.43607G	16.83	-13.17	958.51M	-52.62	2.4G	-47.70	2.4G	-48.14	2.50814G	-51.58	16.25664G	-45.12	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4319G	14.72	-15.28	659.1M	-52.11	2.39992G	-28.29	2.4G	-27.86	2.50038G	-51.98	16.43364G	-44.52	1
2412MHz	Pass	2.4319G	14.72	-15.28	1.98138G	-52.23	2.39968G	-27.86	2.4G	-27.70	2.51942G	-51.48	16.44207G	-44.84	2
2437MHz	Pass	2.4319G	14.72	-15.28	935.21M	-52.39	2.39992G	-29.87	2.4G	-32.66	2.50622G	-51.67	16.88317G	-44.77	1
2437MHz	Pass	2.4319G	14.72	-15.28	819.87M	-52.53	2.39832G	-29.13	2.4G	-31.44	2.51918G	-50.82	16.45612G	-44.85	2
2462MHz	Pass	2.4319G	14.72	-15.28	802.4M	-52.65	2.39848G	-50.84	2.4G	-52.24	2.50606G	-51.77	16.42802G	-45.00	1
2462MHz	Pass	2.4319G	14.72	-15.28	952.68M	-52.13	2.39752G	-50.50	2.4G	-50.39	2.50678G	-51.64	16.26226G	-45.59	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	13.87	-16.13	2.15613G	-52.07	2.3984G	-29.78	2.4G	-30.05	2.52278G	-51.86	16.78484G	-45.71	1
2412MHz	Pass	2.44192G	13.87	-16.13	849M	-53.01	2.39944G	-29.58	2.4G	-28.71	2.5055G	-51.69	16.20045G	-45.54	2
2437MHz	Pass	2.44192G	13.87	-16.13	1.85789G	-52.87	2.39952G	-31.45	2.4G	-31.99	2.52006G	-50.25	17.45913G	-45.31	1
2437MHz	Pass	2.44192G	13.87	-16.13	935.21M	-52.32	2.398G	-31.49	2.4G	-33.97	2.50126G	-51.60	16.43083G	-44.52	2
2462MHz	Pass	2.44192G	13.87	-16.13	2.10603G	-52.81	2.39408G	-50.84	2.4G	-53.17	2.52262G	-51.77	16.48703G	-44.34	1
2462MHz	Pass	2.44192G	13.87	-16.13	732.5M	-51.83	2.4G	-50.41	2.4G	-51.11	2.50926G	-51.56	16.40836G	-44.40	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43958G	6.51	-23.49	2.09444G	-51.05	2.39952G	-34.08	2.4G	-34.29	2.5131G	-51.74	6.85729G	-45.38	1
2422MHz	Pass	2.43958G	6.51	-23.49	926.54M	-51.59	2.4G	-37.80	2.4G	-34.67	2.53358G	-52.09	16.43767G	-45.51	2
2437MHz	Pass	2.43958G	6.51	-23.49	908.22M	-51.47	2.39968G	-37.50	2.4G	-38.99	2.54014G	-52.54	24.19229G	-44.70	1
2437MHz	Pass	2.43958G	6.51	-23.49	908.22M	-51.83	2.39936G	-39.83	2.4G	-38.90	2.50622G	-51.98	16.20209G	-45.83	2
2452MHz	Pass	2.43958G	6.51	-23.49	757.08M	-52.74	2.4G	-48.45	2.4G	-48.49	2.5579G	-51.94	16.4573G	-45.39	1
2452MHz	Pass	2.43958G	6.51	-23.49	749.06M	-52.77	2.3992G	-47.30	2.4G	-45.73	2.53662G	-52.60	24.50359G	-46.09	2

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

CSEndB

2412MHz

14/05/2024

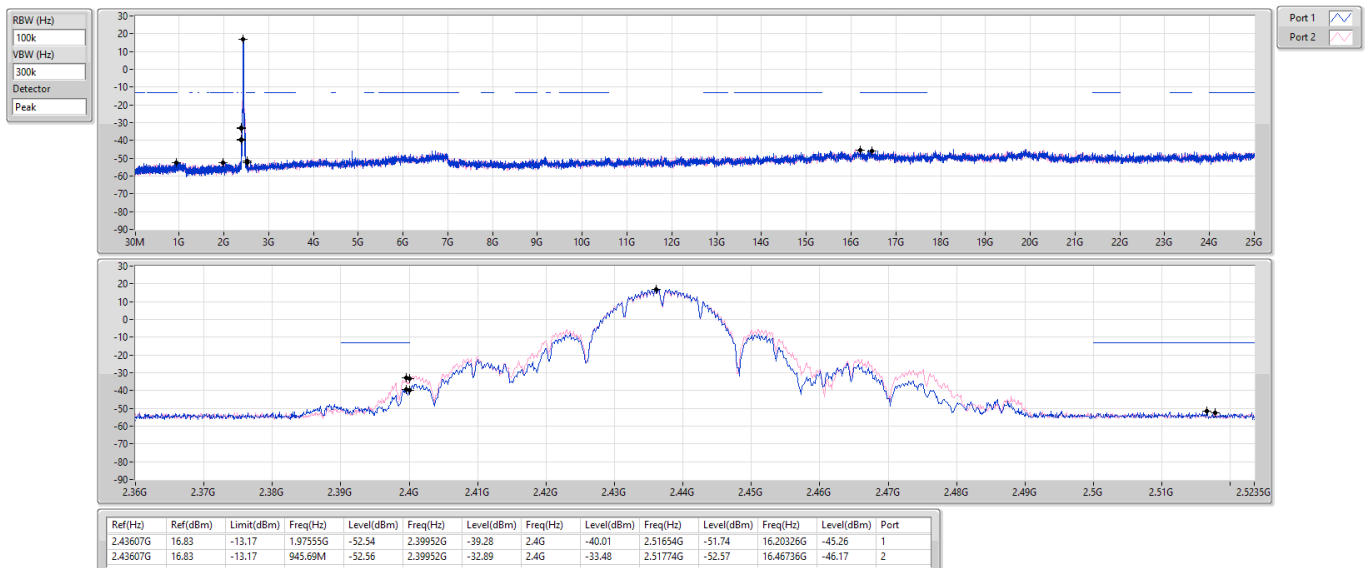


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2437MHz

14/05/2024

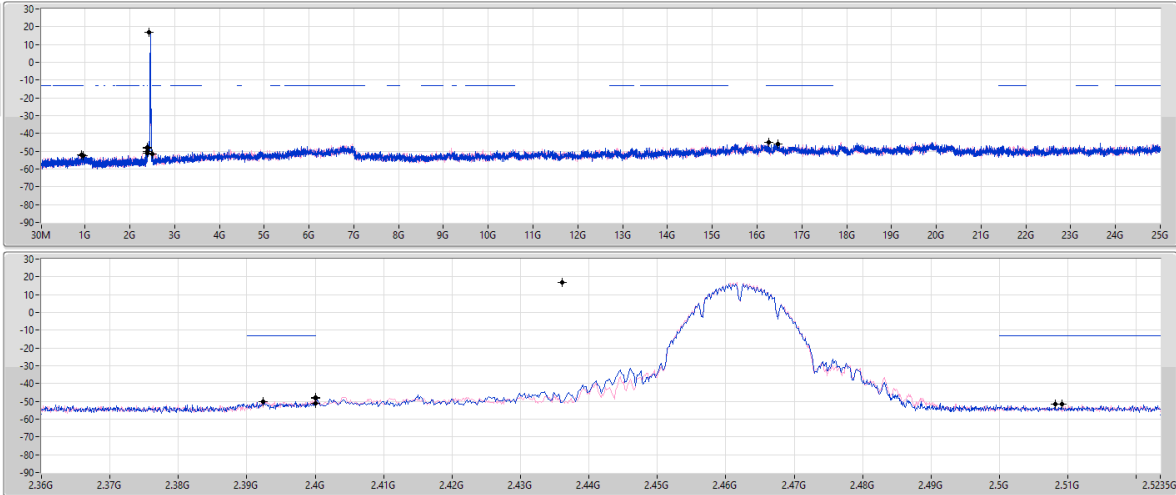


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2462MHz

14/05/2024

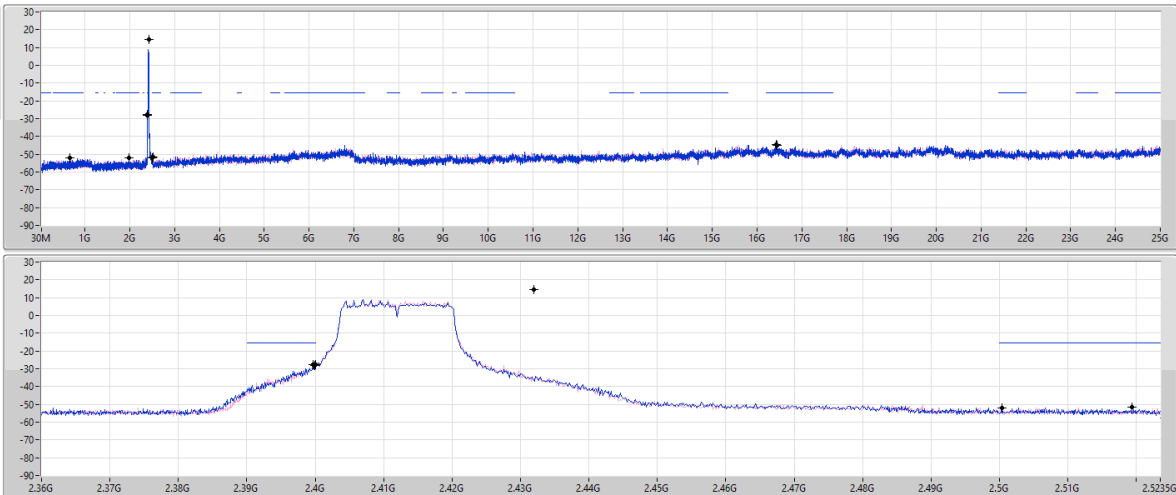
RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

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

CSEndB

2412MHz

14/05/2024

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

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

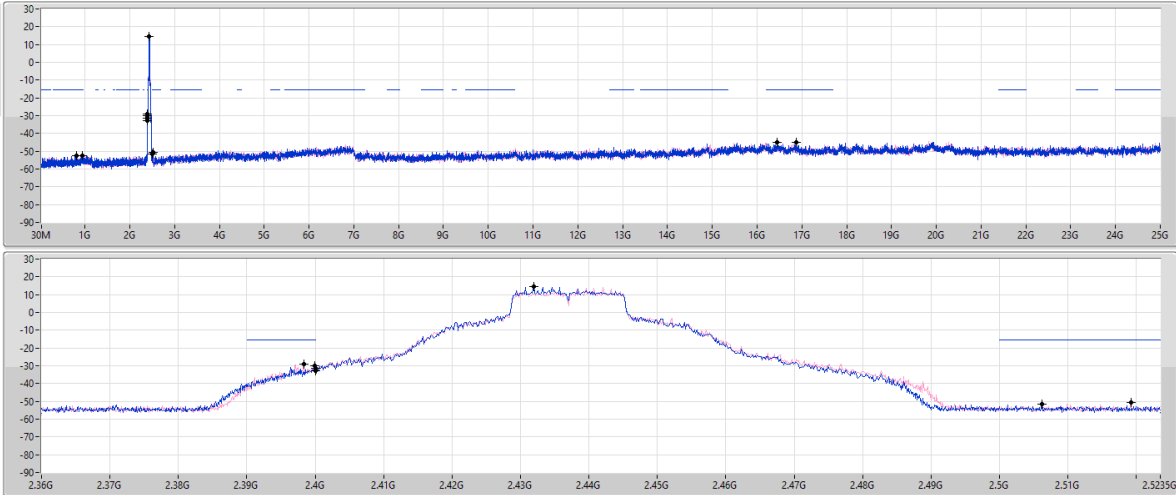
CSEndB

2437MHz

14/05/2024

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

Port 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
2.4319G	14.72	-15.28	935.21M	-52.39	2.39992G	-29.87	2.4G	-32.66	2.50622G	-51.67	16.88317G	-44.77	1
2.4319G	14.72	-15.28	819.87M	-52.53	2.39832G	-29.13	2.4G	-31.44	2.51918G	-50.82	16.45612G	-44.85	2

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

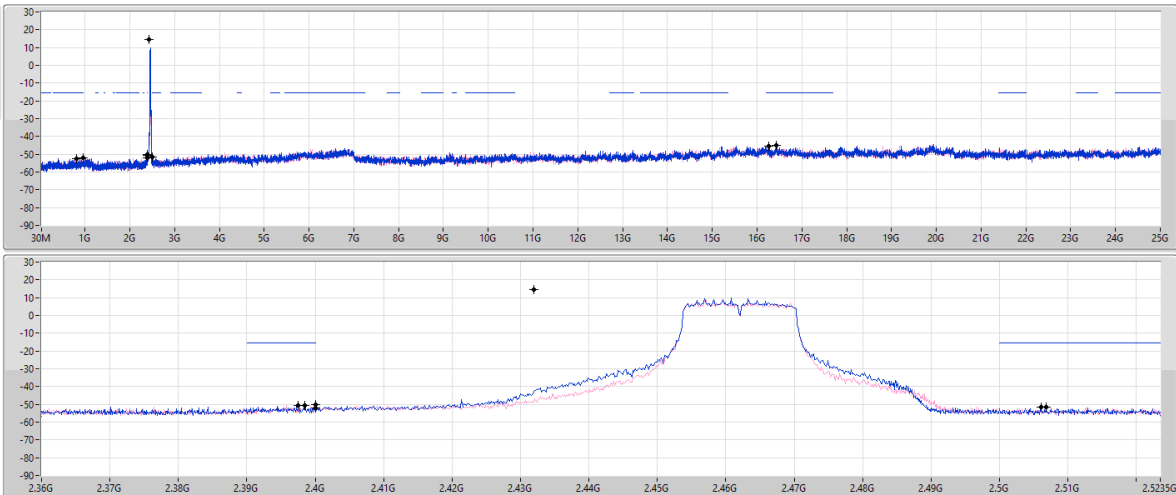
CSEndB

2462MHz

14/05/2024

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

Port 1
Port 2



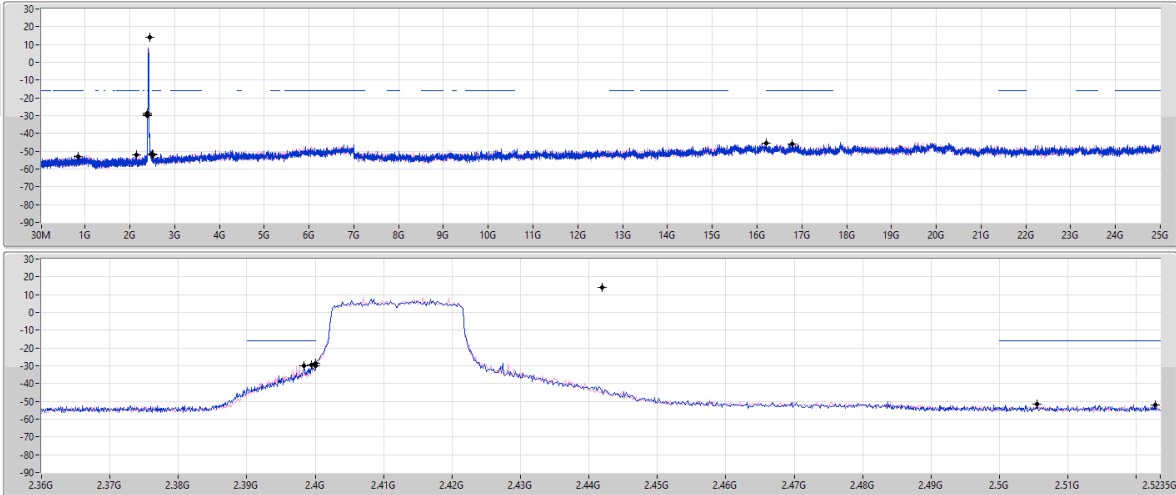
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4319G	14.72	-15.28	802.4M	-52.65	2.39648G	-50.84	2.4G	-52.24	2.50606G	-51.77	16.42802G	-45.00	1
2.4319G	14.72	-15.28	952.68M	-52.13	2.39752G	-50.30	2.4G	-50.39	2.50678G	-51.64	16.26226G	-45.59	2

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

CSEndB

2412MHz

14/05/2024

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

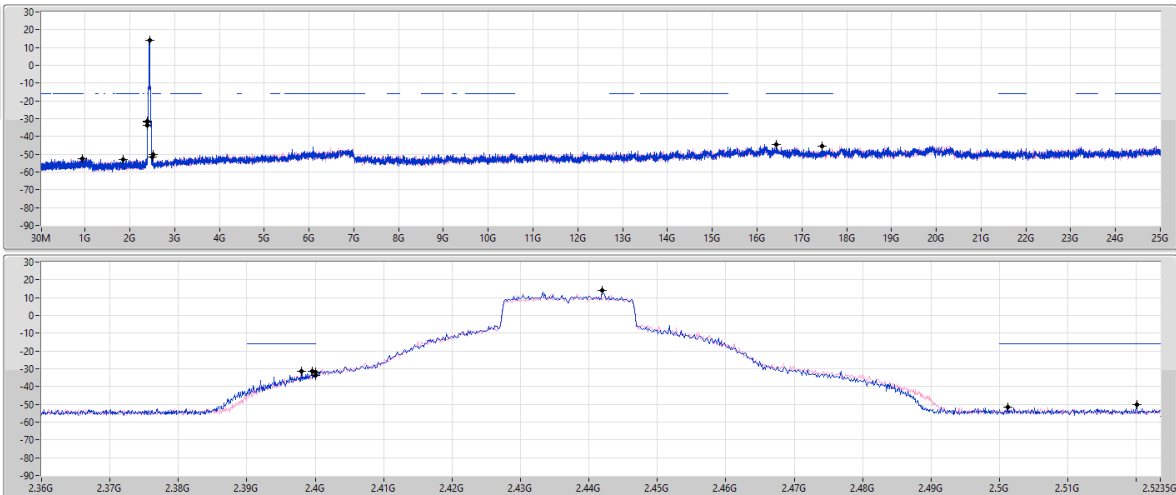
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44192G	13.87	-16.13	2.15613G	-52.07	2.3984G	-29.78	2.4G	-30.05	2.52278G	-51.86	16.78484G	-45.71	1
2.44192G	13.87	-16.13	849M	-53.01	2.39944G	-29.98	2.4G	-28.71	2.5055G	-51.69	16.20045G	-45.54	2

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

CSEndB

2437MHz

14/05/2024

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

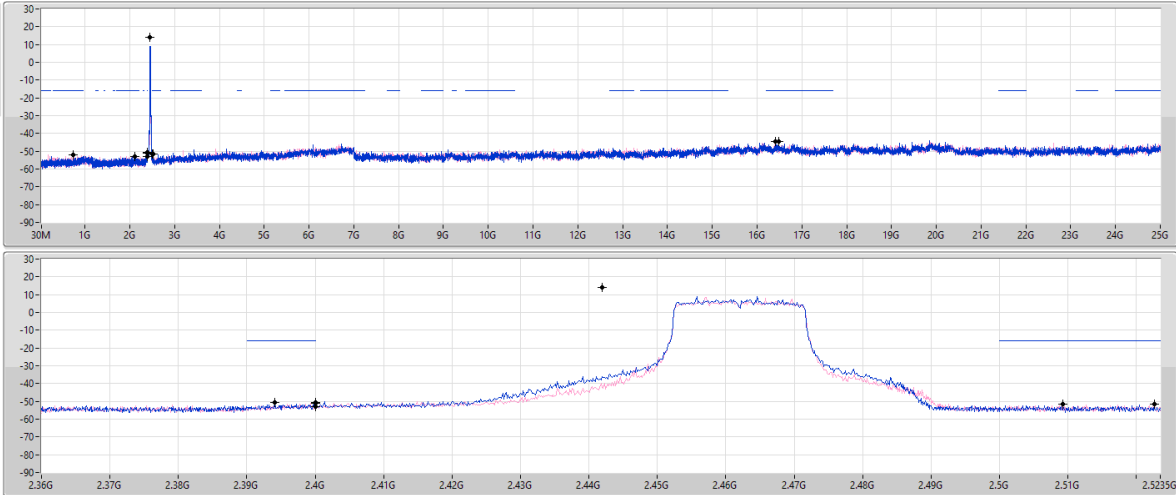
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44192G	13.87	-16.13	1.85789G	-52.87	2.39952G	-31.45	2.4G	-31.99	2.52006G	-50.25	17.49913G	-45.31	1
2.44192G	13.87	-16.13	935.21M	-52.32	2.398G	-31.49	2.4G	-33.97	2.50126G	-51.60	16.43083G	-44.52	2

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

CSEndB

2462MHz

14/05/2024

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

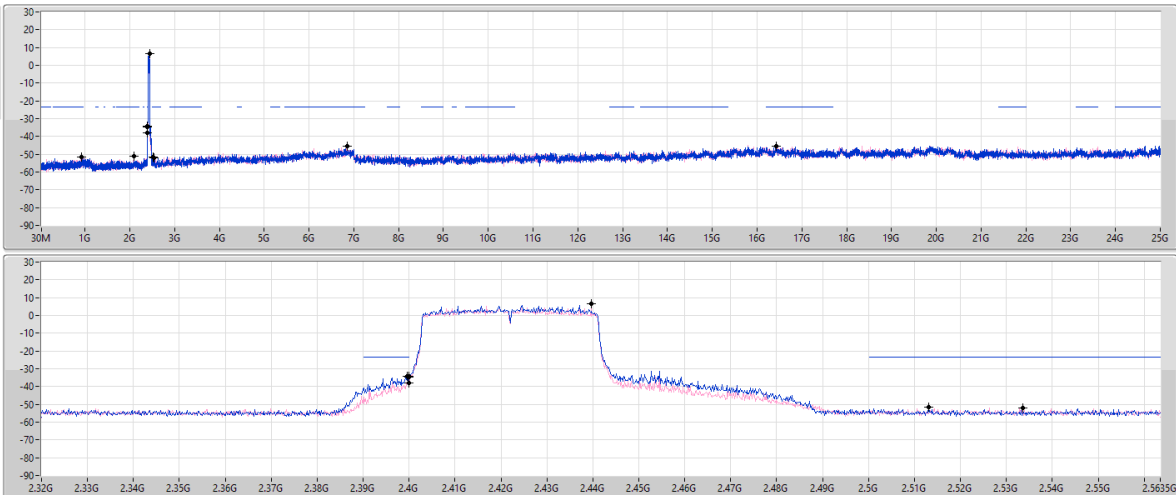
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44192G	13.87	-16.13	2.10603G	-52.81	2.39408G	-50.84	2.4G	-53.17	2.52262G	-51.77	16.48703G	-44.34	1
2.44192G	13.87	-16.13	732.5M	-51.83	2.4G	-50.41	2.4G	-51.11	2.50926G	-51.56	16.40836G	-44.40	2

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

CSEndB

2422MHz

14/05/2024

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

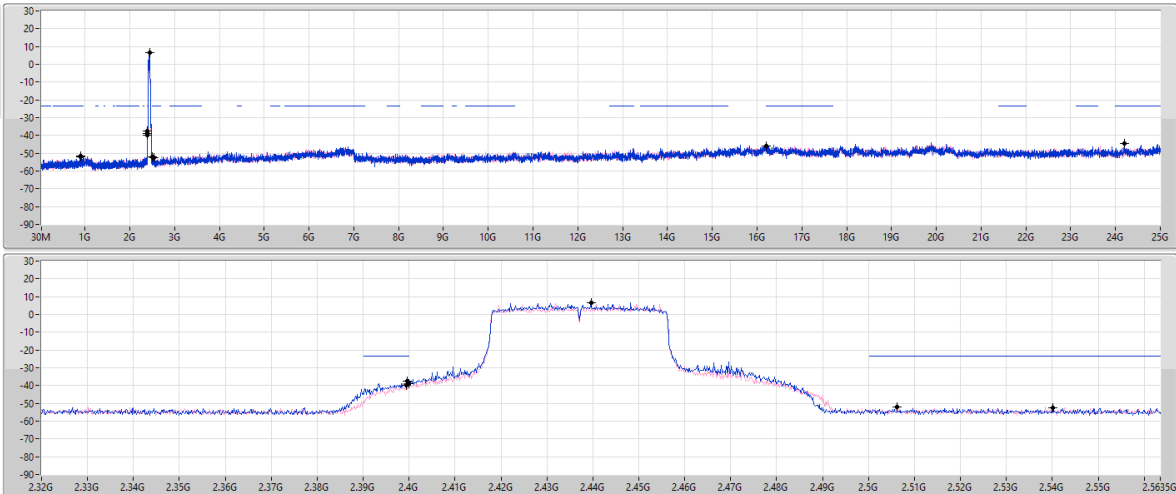
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43958G	6.51	-23.49	2.09444G	-51.05	2.39952G	-34.08	2.4G	-34.29	2.5131G	-51.74	6.85729G	-45.38	1
2.43958G	6.51	-23.49	926.54M	-51.59	2.4G	-37.80	2.4G	-34.67	2.53358G	-52.09	16.43767G	-45.51	2

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

CSEndB

2437MHz

14/05/2024

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

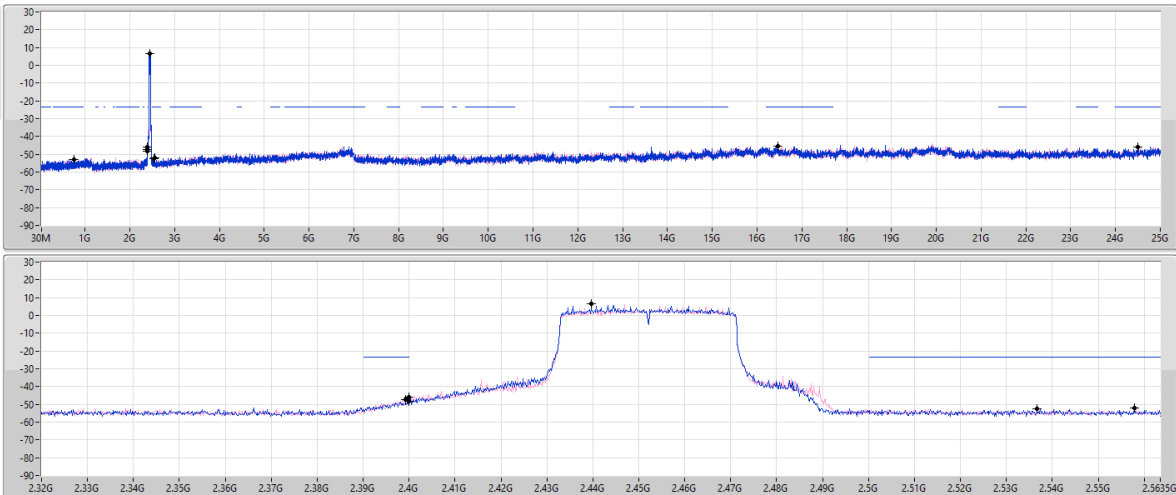
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43958G	6.51	-23.49	908.22M	-51.47	2.39968G	-37.50	2.4G	-38.99	2.54014G	-52.54	24.19229G	-44.70	1
2.43958G	6.51	-23.49	908.22M	-51.83	2.39936G	-39.83	2.4G	-38.90	2.50622G	-51.98	16.20209G	-45.83	2

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

CSEndB

2452MHz

14/05/2024

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
2.43958G	6.51	-23.49	757.08M	-52.74	2.4G	-48.45	2.4G	-48.49	2.5579G	-51.94	16.4573G	-45.39	1
2.43958G	6.51	-23.49	749.06M	-52.77	2.3992G	-47.30	2.4G	-45.73	2.53662G	-52.60	24.50359G	-46.09	2



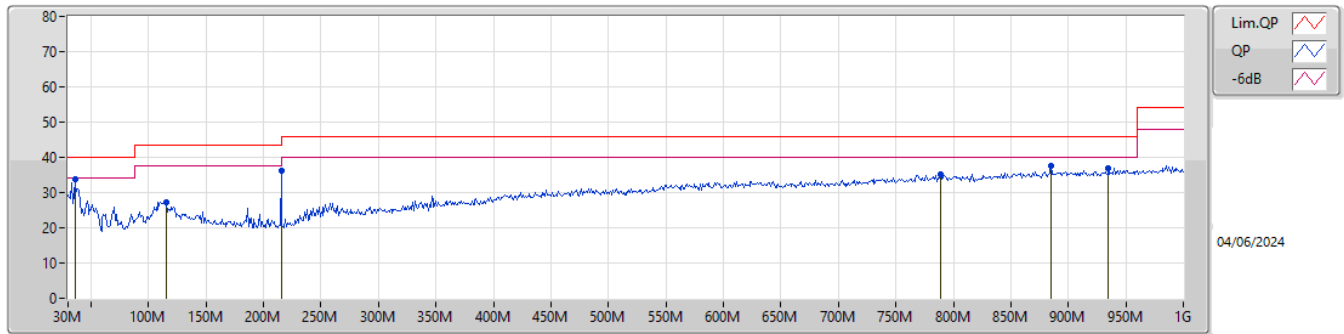
Radiated Emissions below 1GHz

Appendix E.1

Summary

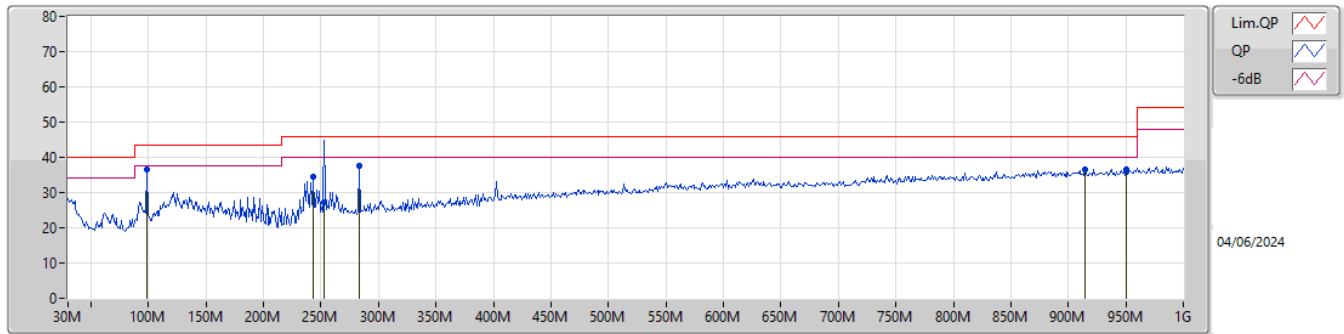
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	35.82M	33.68	40.00	-6.32	Vertical

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)		
PK	35.82M	33.68	40.00	-6.32	-9.13	3	Vertical	197	1.50	"Worst"	42.81	21.27	1.10	31.50		
PK	115.36M	27.25	43.50	-16.25	-11.82	3	Vertical	0	1.25	-	39.07	18.04	1.89	31.75		
PK	215.27M	36.23	43.50	-7.27	-14.31	3	Vertical	77	1.00	-	50.54	14.88	2.60	31.79		
PK	788.54M	35.06	46.00	-10.94	-1.16	3	Vertical	80	1.00	-	36.22	25.81	5.38	32.35		
PK	884.57M	37.73	46.00	-8.27	-0.22	3	Vertical	191	1.50	-	37.95	26.36	5.77	32.35		
PK	935.01M	36.88	46.00	-9.12	0.04	3	Vertical	358	3.00	-	36.84	26.42	5.94	32.32		

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	98.87M	36.42	43.50	-7.08	-13.37	3	Horizontal	360	3.00	"Worst"	49.79	16.63	1.74	31.74		
PK	243.4M	34.49	46.00	-11.51	-11.50	3	Horizontal	255	1.25	-	45.99	17.52	2.79	31.81		
QP	253.1M	27.35	46.00	-18.65	-10.35	3	Horizontal	111	3.00	-	37.70	18.62	2.85	31.82		
PK	283.17M	37.64	46.00	-8.36	-9.99	3	Horizontal	138	3.00	-	47.63	18.81	3.03	31.83		
PK	915M	36.58	46.00	-9.42	-0.08	3	Horizontal	110	3.00	-	36.66	26.39	5.88	32.35		
PK	950.53M	36.60	46.00	-9.40	0.30	3	Horizontal	322	1.25	-	36.30	26.62	5.98	32.30		

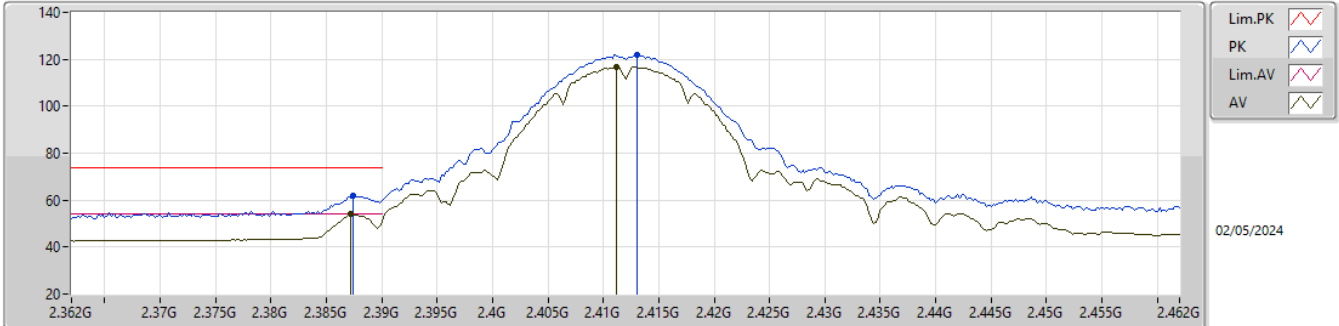


Summary

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	2.3872G	53.96	54.00	-0.04	3	Vertical	179	2.58	-

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

2412MHz_TX

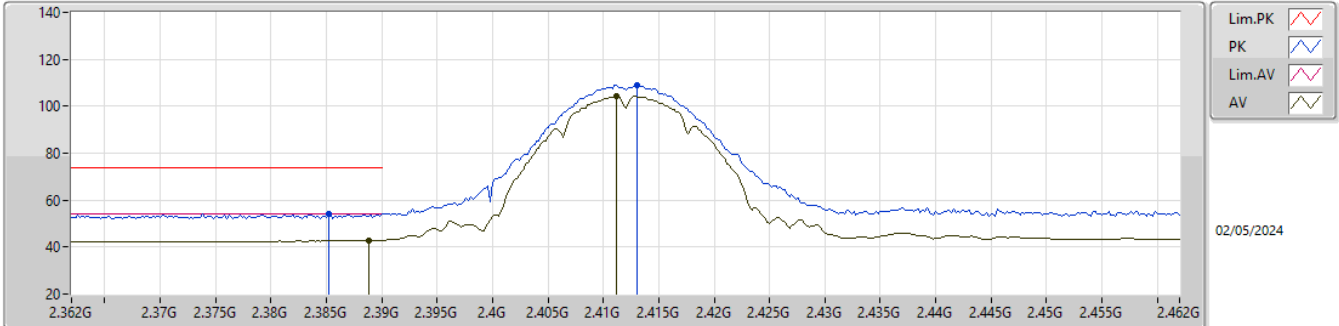


EUT_Z_2TX
Setting 25
04-E-J-8

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	2.3874G	61.90	74.00	-12.10	31.16	3	Vertical	179	2.58	-	27.40	3.34	-				
AV	2.3872G	53.96	54.00	-0.04	23.22	3	Vertical	179	2.58	-	27.40	3.34	-				
PK	2.413G	121.84	Inf	-Inf	90.98	3	Vertical	179	2.58	-	27.50	3.36	-				
AV	2.4112G	116.80	Inf	-Inf	85.94	3	Vertical	179	2.58	-	27.50	3.36	-				

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

2412MHz_TX

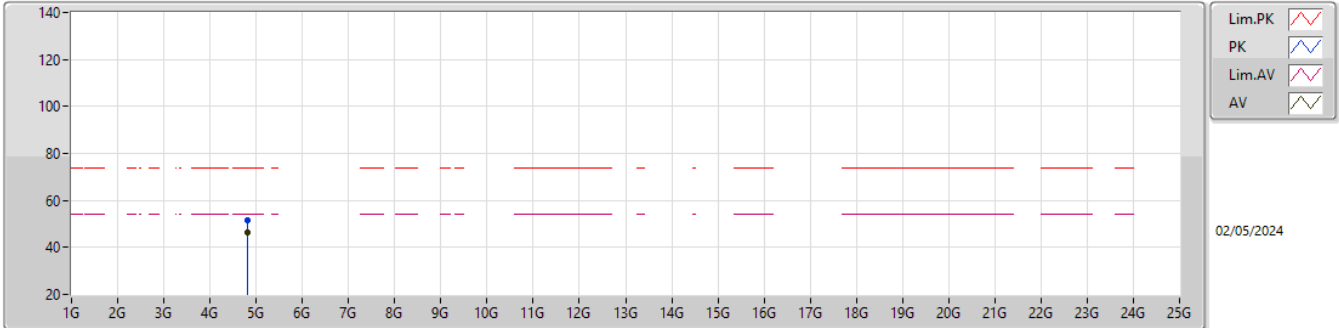


EUT_Z_2TX
Setting 25
04-E-J-8

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	2.3852G	54.27	74.00	-19.73	23.53	3	Horizontal	64	2.86	-	27.40	3.34	-				
AV	2.3888G	42.94	54.00	-11.06	12.19	3	Horizontal	64	2.86	-	27.40	3.35	-				
PK	2.413G	108.97	Inf	-Inf	78.11	3	Horizontal	64	2.86	-	27.50	3.36	-				
AV	2.4112G	104.24	Inf	-Inf	73.38	3	Horizontal	64	2.86	-	27.50	3.36	-				

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

2412MHz_TX

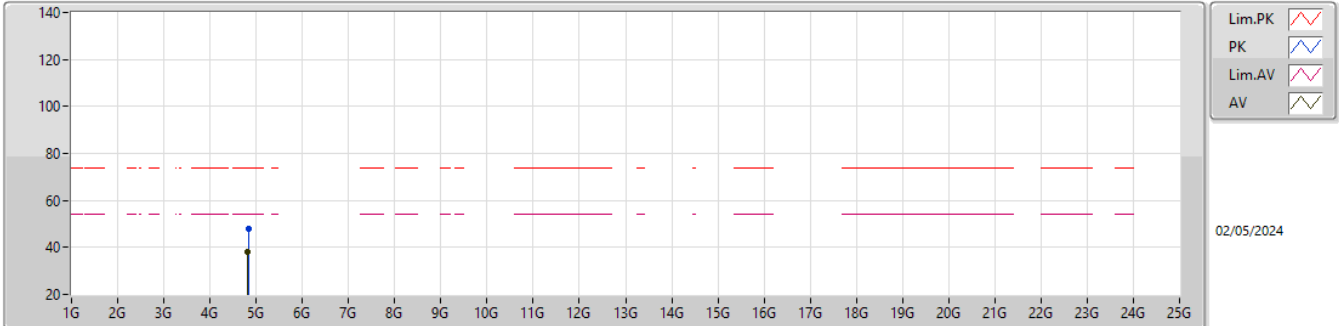


EUT_Z_2TX
Setting 25
04-E-J-8

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	4.82412G	51.56	74.00	-22.44	46.81	3	Vertical	4	2.62	-	32.35	5.67	33.27			
AV	4.824G	46.25	54.00	-7.75	41.50	3	Vertical	4	2.62	-	32.35	5.67	33.27			

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

2412MHz_TX

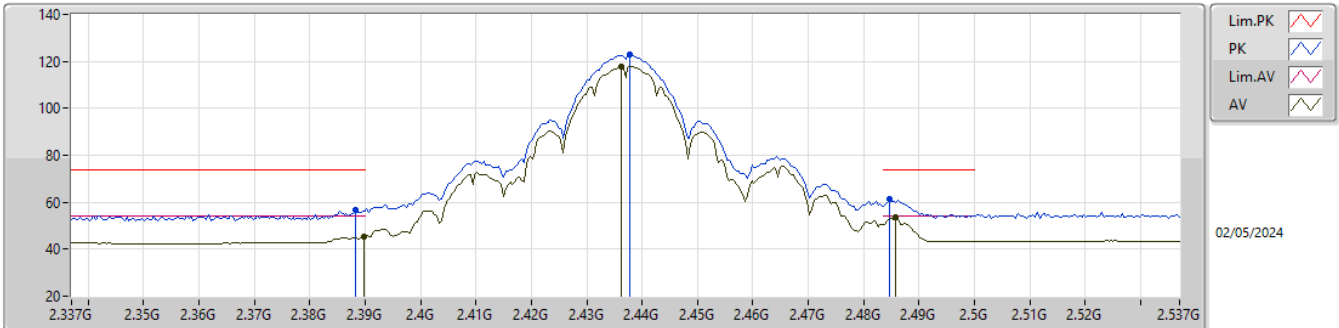


EUT_Z_2TX
Setting 25
04-E-J-8

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	4.82676G	48.10	74.00	-25.90	43.35	3	Horizontal	247	2.09	-	32.35	5.67	33.27			
AV	4.824G	38.29	54.00	-15.71	33.54	3	Horizontal	247	2.09	-	32.35	5.67	33.27			

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

2437MHz_TX

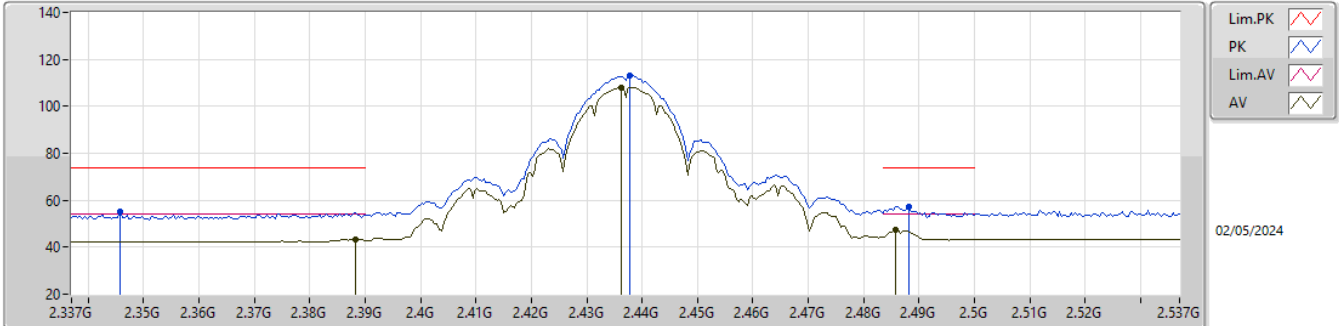


EUT_Z_2TX
Setting 27.5
04-E-J-8

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	2.3882G	56.82	74.00	-17.18	26.07	3	Vertical	190	2.29	-	27.40	3.35	-			
AV	2.3898G	45.60	54.00	-8.40	14.85	3	Vertical	190	2.29	-	27.40	3.35	-			
PK	2.4378G	122.77	Inf	-Inf	91.82	3	Vertical	190	2.29	-	27.58	3.37	-			
AV	2.4362G	117.81	Inf	-Inf	86.88	3	Vertical	190	2.29	-	27.56	3.37	-			
PK	2.4846G	61.58	74.00	-12.42	30.53	3	Vertical	190	2.29	-	27.65	3.40	-			
AV	2.4858G	53.70	54.00	-0.30	22.64	3	Vertical	190	2.29	-	27.66	3.40	-			

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

2437MHz_TX

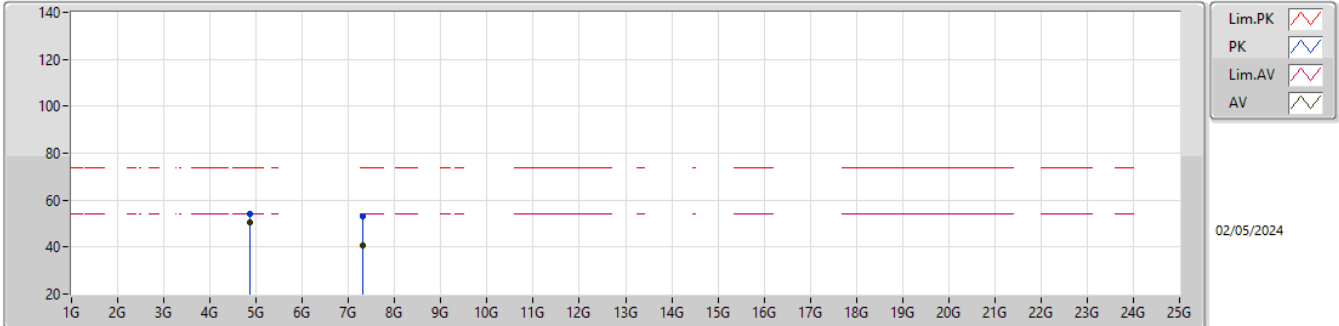


EUT_Z_2TX
Setting 27.5
04-E-J-8

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	2.3458G	55.00	74.00	-19.00	24.27	3	Horizontal	55	2.46	-	27.40	3.33	-			
AV	2.3882G	43.36	54.00	-10.64	12.61	3	Horizontal	55	2.46	-	27.40	3.35	-			
PK	2.4378G	112.92	Inf	-Inf	81.97	3	Horizontal	55	2.46	-	27.58	3.37	-			
AV	2.4362G	108.09	Inf	-Inf	77.16	3	Horizontal	55	2.46	-	27.56	3.37	-			
PK	2.4882G	57.50	74.00	-16.50	26.42	3	Horizontal	55	2.46	-	27.68	3.40	-			
AV	2.4858G	47.63	54.00	-6.37	16.57	3	Horizontal	55	2.46	-	27.66	3.40	-			

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

2437MHz_TX

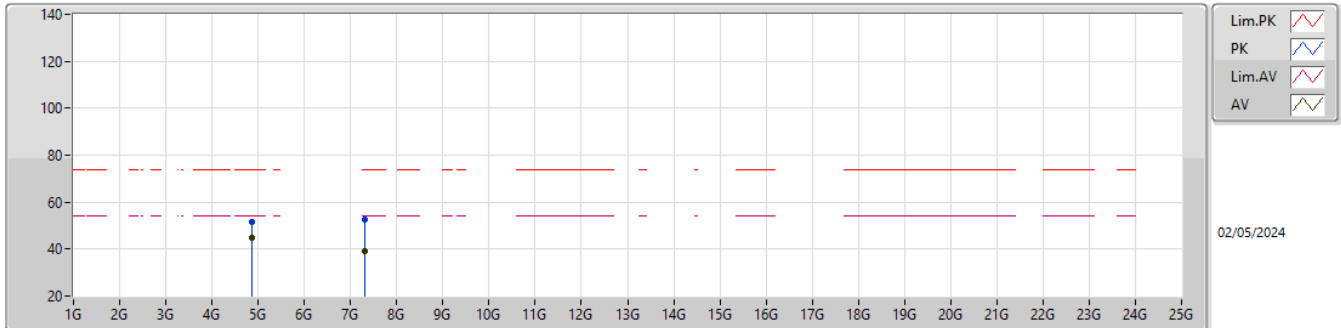


EUT_Z_2TX
Setting 27.5
04-E-J-8

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	4.874G	54.31	74.00	-19.69	49.35	3	Vertical	342	2.39	-	32.50	5.72	33.26			
AV	4.874G	50.65	54.00	-3.35	45.69	3	Vertical	342	2.39	-	32.50	5.72	33.26			
PK	7.2978G	53.17	74.00	-20.83	42.96	3	Vertical	245	2.45	-	37.19	7.11	34.09			
AV	7.31202G	40.64	54.00	-13.36	30.41	3	Vertical	245	2.45	-	37.20	7.12	34.09			

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

2437MHz_TX

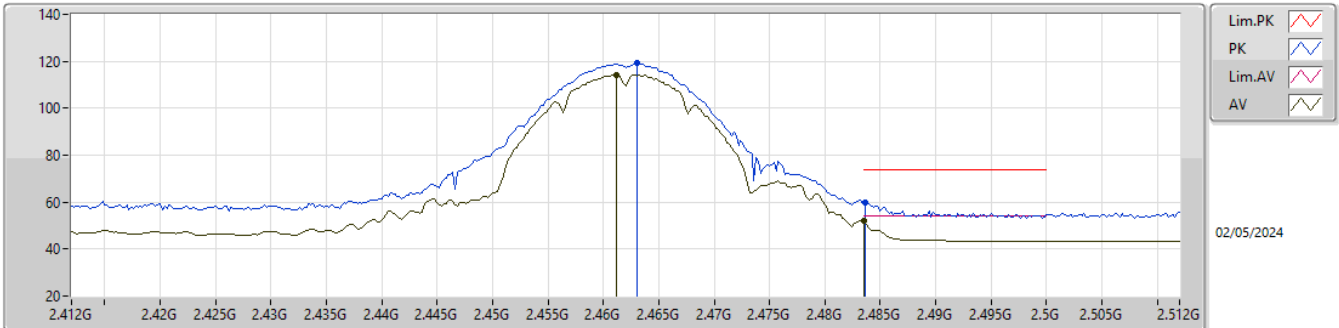


EUT_Z_2TX
Setting 27.5
04-E-J-8

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	4.87418G	51.50	74.00	-22.50	46.54	3	Horizontal	328	2.19	-	32.50	5.72	33.26			
AV	4.874G	45.05	54.00	-8.95	40.09	3	Horizontal	328	2.19	-	32.50	5.72	33.26			
PK	7.3089G	52.34	74.00	-21.66	42.11	3	Horizontal	62	1.80	-	37.20	7.12	34.09			
AV	7.31166G	39.15	54.00	-14.85	28.92	3	Horizontal	62	1.80	-	37.20	7.12	34.09			

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

2462MHz_TX

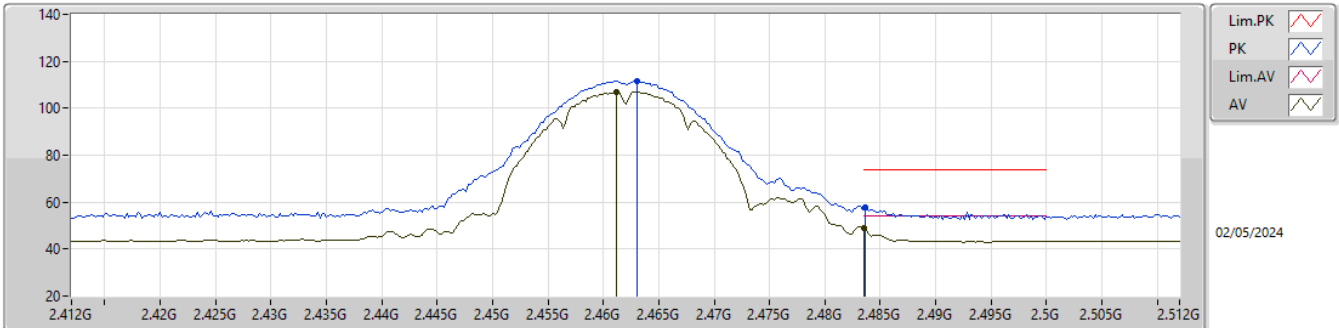


EUT_Z_2TX
Setting 24
04-E-J-8

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	2.463G	119.20	Inf	-Inf	88.22	3	Vertical	188	2.02	-	27.60	3.38	-				
AV	2.4612G	114.35	Inf	-Inf	83.37	3	Vertical	188	2.02	-	27.60	3.38	-				
PK	2.4836G	59.68	74.00	-14.32	28.64	3	Vertical	188	2.02	-	27.64	3.40	-				
AV	2.4835G	52.20	54.00	-1.80	21.16	3	Vertical	188	2.02	-	27.64	3.40	-				

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

2462MHz_TX

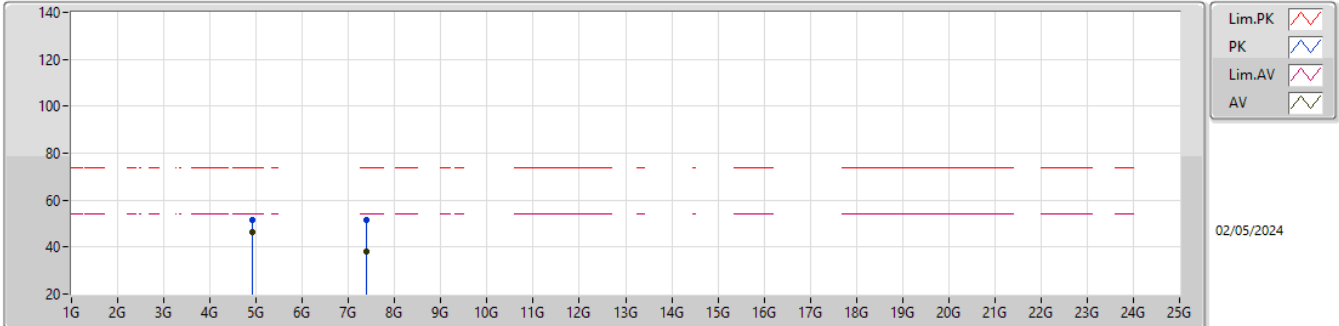


EUT_Z_2TX
Setting 24
04-E-J-8

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	2.463G	111.80	Inf	-Inf	80.82	3	Horizontal	63	2.82	-	27.60	3.38	-			
AV	2.4612G	107.02	Inf	-Inf	76.04	3	Horizontal	63	2.82	-	27.60	3.38	-			
PK	2.4836G	57.95	74.00	-16.05	26.91	3	Horizontal	63	2.82	-	27.64	3.40	-			
AV	2.4835G	48.91	54.00	-5.09	17.87	3	Horizontal	63	2.82	-	27.64	3.40	-			

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

2462MHz_TX

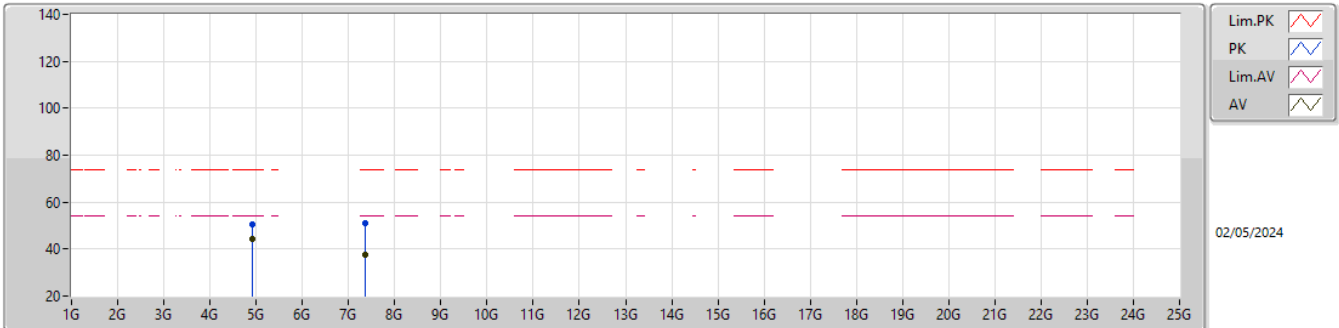


EUT_Z_2TX
Setting 24
04-E-J-8

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	4.92394G	51.56	74.00	-22.44	46.39	3	Vertical	-0	2.97	-	32.65	5.76	33.24			
AV	4.924G	46.16	54.00	-7.84	40.99	3	Vertical	-0	2.97	-	32.65	5.76	33.24			
PK	7.395G	51.58	74.00	-22.42	41.34	3	Vertical	88	1.84	-	37.20	7.17	34.13			
AV	7.37598G	37.86	54.00	-16.14	27.62	3	Vertical	88	1.84	-	37.20	7.16	34.12			

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

2462MHz_TX

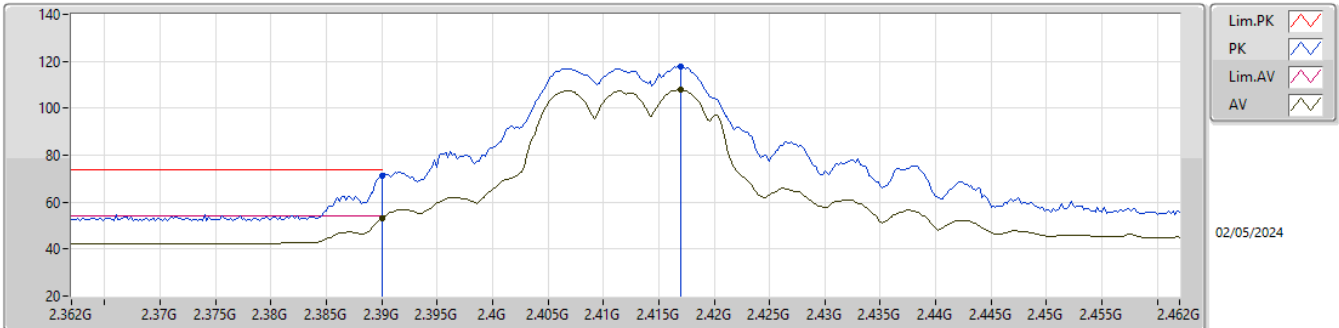


EUT_Z_2TX
Setting 24
04-E-J-8

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	4.924G	50.55	74.00	-23.45	45.38	3	Horizontal	43	2.31	-	32.65	5.76	33.24			
AV	4.924G	44.09	54.00	-9.91	38.92	3	Horizontal	43	2.31	-	32.65	5.76	33.24			
PK	7.37424G	51.13	74.00	-22.87	40.89	3	Horizontal	106	1.93	-	37.20	7.16	34.12			
AV	7.37274G	37.66	54.00	-16.34	27.42	3	Horizontal	106	1.93	-	37.20	7.16	34.12			

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

2412MHz_TX

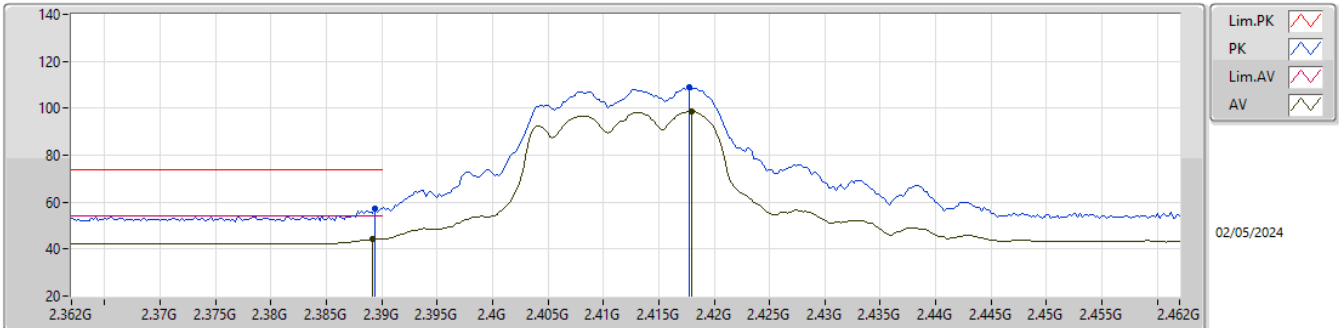


EUT_Z_2TX
Setting 21
04-E-J-8

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	2.39G	71.44	74.00	-2.56	40.69	3	Vertical	187	2.57	-	27.40	3.35	-				
AV	2.39G	53.15	54.00	-0.85	22.40	3	Vertical	187	2.57	-	27.40	3.35	-				
PK	2.417G	117.81	Inf	-Inf	86.95	3	Vertical	187	2.57	-	27.50	3.36	-				
AV	2.417G	107.75	Inf	-Inf	76.89	3	Vertical	187	2.57	-	27.50	3.36	-				

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

2412MHz_TX

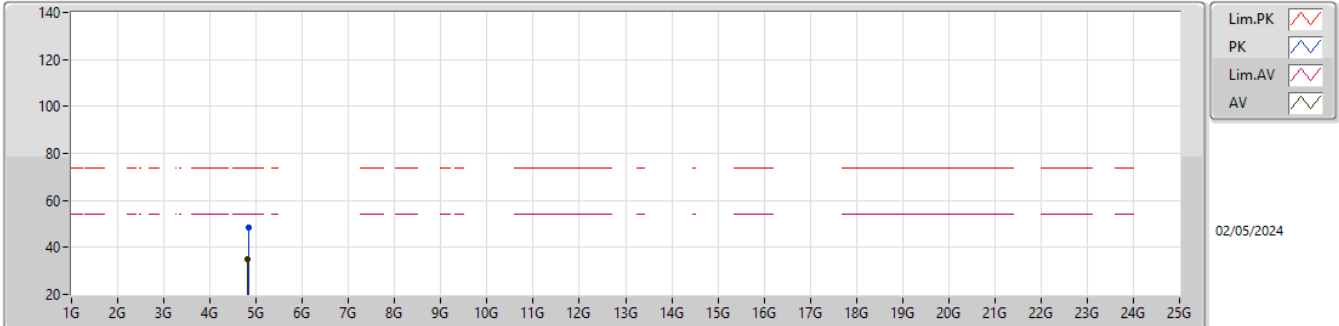


EUT_Z_TX
Setting 21
04-E-J-8

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	2.3894G	57.44	74.00	-16.56	26.69	3	Horizontal	58	2.64	-	27.40	3.35	-				
AV	2.3892G	44.21	54.00	-9.79	13.46	3	Horizontal	58	2.64	-	27.40	3.35	-				
PK	2.4178G	108.87	Inf	-Inf	78.01	3	Horizontal	58	2.64	-	27.50	3.36	-				
AV	2.418G	98.56	Inf	-Inf	67.70	3	Horizontal	58	2.64	-	27.50	3.36	-				

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

2412MHz_TX

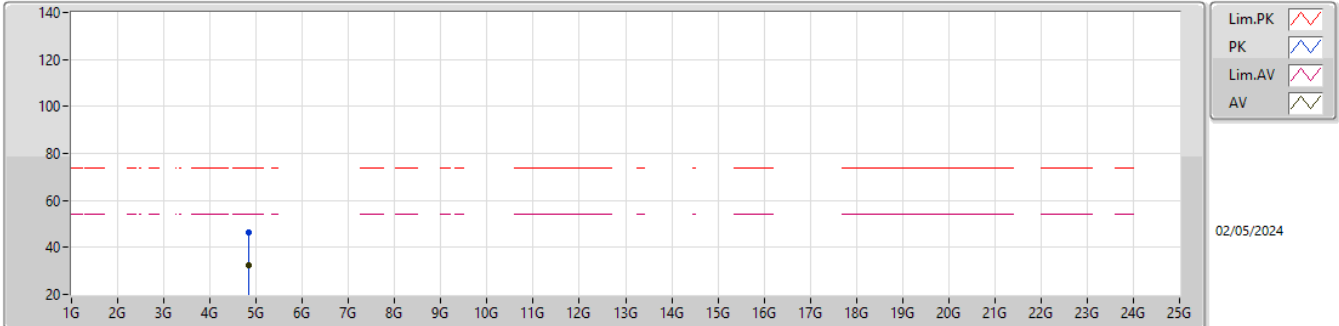


EUT_Z_2TX
Setting 21
04-E-J-8

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	4.82496G	48.68	74.00	-25.32	43.93	3	Vertical	2	2.62	-	32.35	5.67	33.27			
AV	4.824G	35.11	54.00	-18.89	30.36	3	Vertical	2	2.62	-	32.35	5.67	33.27			

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

2412MHz_TX

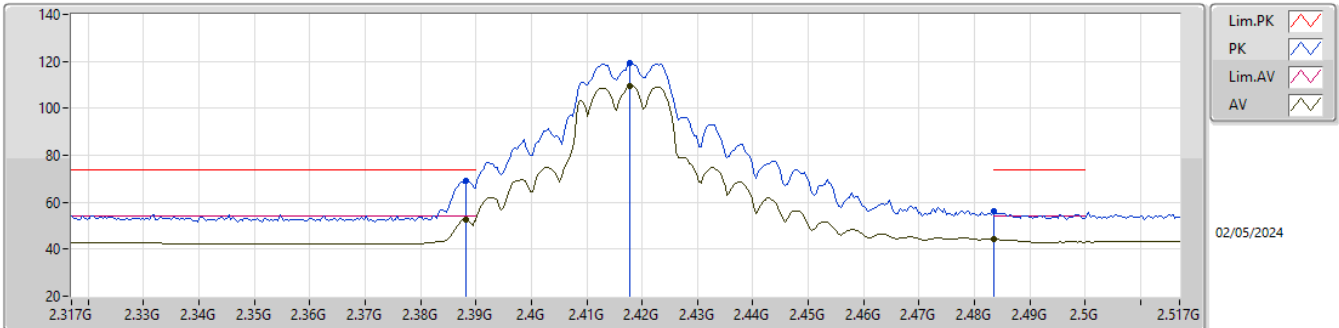


EUT_Z_2TX
Setting 21
04-E-J-8

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	4.82898G	46.43	74.00	-27.57	41.66	3	Horizontal	151	1.15	-	32.36	5.68	33.27			
AV	4.8273G	32.61	54.00	-21.39	27.86	3	Horizontal	151	1.15	-	32.35	5.67	33.27			

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

2417MHz_TX

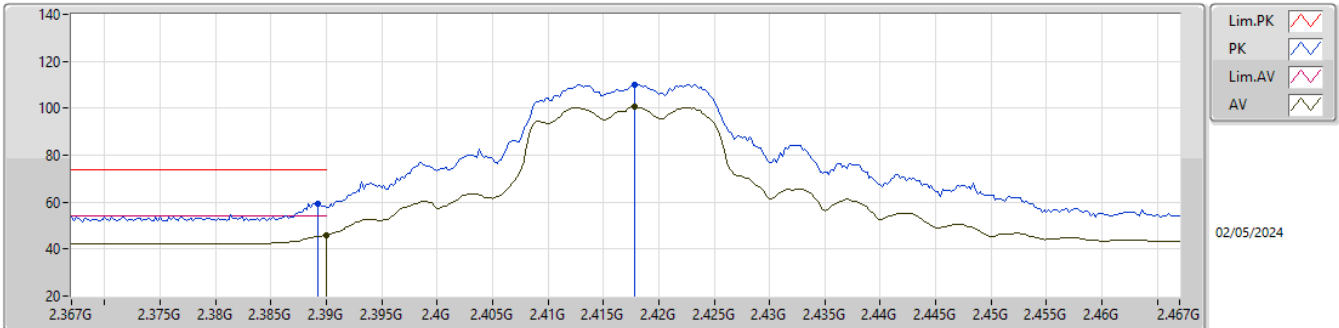


EUT_Z_2TX
Setting 23
04-E-J-8

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	2.3882G	69.36	74.00	-4.64	38.61	3	Vertical	175	2.25	-	27.40	3.35	-				
AV	2.3882G	52.49	54.00	-1.51	21.74	3	Vertical	175	2.25	-	27.40	3.35	-				
PK	2.4178G	119.30	Inf	-Inf	88.44	3	Vertical	175	2.25	-	27.50	3.36	-				
AV	2.4178G	109.54	Inf	-Inf	78.68	3	Vertical	175	2.25	-	27.50	3.36	-				
PK	2.4835G	56.14	74.00	-17.86	25.10	3	Vertical	175	2.25	-	27.64	3.40	-				
AV	2.4835G	44.21	54.00	-9.79	13.17	3	Vertical	175	2.25	-	27.64	3.40	-				

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

2417MHz_TX

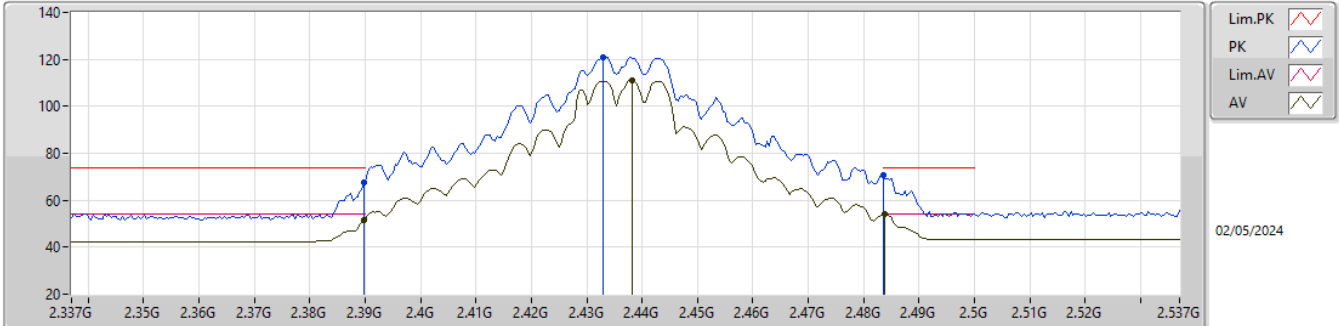


EUT_Z_2TX
Setting 23
04-E-J-8

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	2.3892G	59.52	74.00	-14.48	28.77	3	Horizontal	59	2.63	-	27.40	3.35	-				
AV	2.39G	46.07	54.00	-7.93	15.32	3	Horizontal	59	2.63	-	27.40	3.35	-				
PK	2.4178G	110.15	Inf	-Inf	79.29	3	Horizontal	59	2.63	-	27.50	3.36	-				
AV	2.4178G	100.57	Inf	-Inf	69.71	3	Horizontal	59	2.63	-	27.50	3.36	-				

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

2437MHz_TX

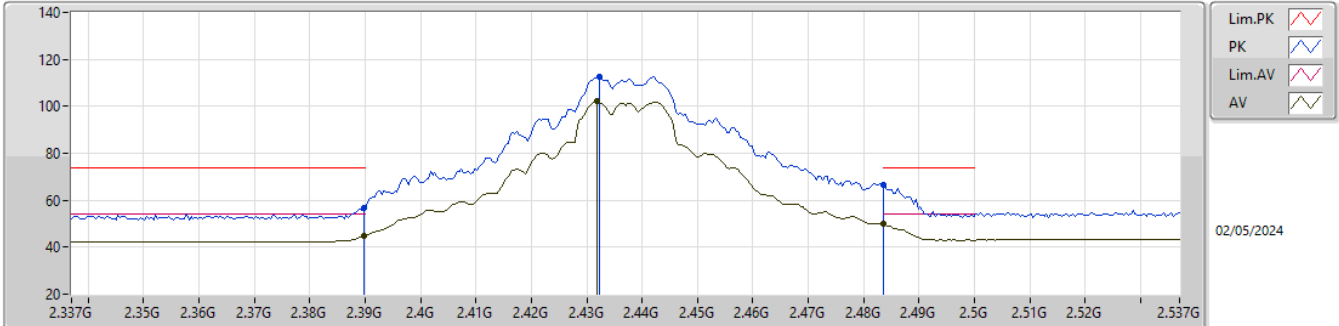


EUT_Z_2TX
Setting 26
04-E-J-8

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	2.3898G	67.67	74.00	-6.33	36.92	3	Vertical	175	2.54	-	27.40	3.35	-			
AV	2.3898G	51.81	54.00	-2.19	21.06	3	Vertical	175	2.54	-	27.40	3.35	-			
PK	2.433G	121.06	Inf	-Inf	90.16	3	Vertical	175	2.54	-	27.53	3.37	-			
AV	2.4382G	110.84	Inf	-Inf	79.89	3	Vertical	175	2.54	-	27.58	3.37	-			
PK	2.4835G	70.81	74.00	-3.19	39.77	3	Vertical	175	2.54	-	27.64	3.40	-			
AV	2.4838G	53.92	54.00	-0.08	22.88	3	Vertical	175	2.54	-	27.64	3.40	-			

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

2437MHz_TX

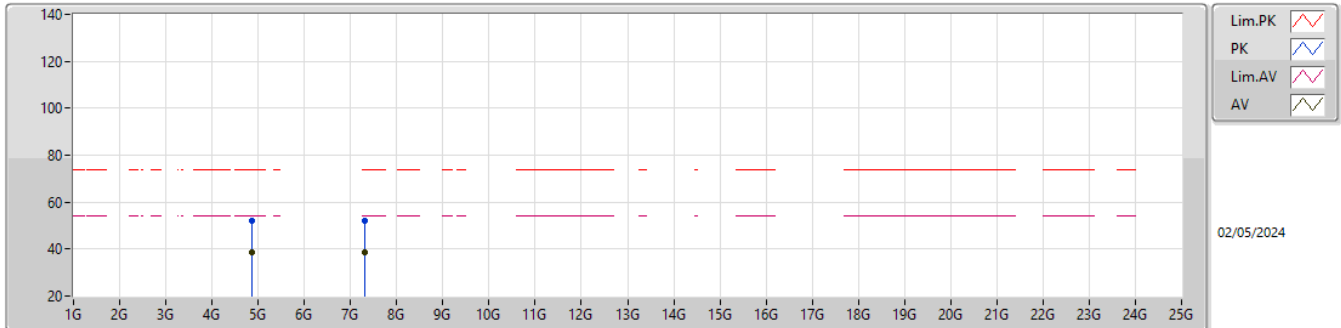


EUT_Z_2TX
Setting 26
04-E-J-8

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	2.3898G	56.78	74.00	-17.22	26.03	3	Horizontal	60	2.56	-	27.40	3.35	-				
AV	2.3898G	44.98	54.00	-9.02	14.23	3	Horizontal	60	2.56	-	27.40	3.35	-				
PK	2.4322G	112.46	Inf	-Inf	81.57	3	Horizontal	60	2.56	-	27.52	3.37	-				
AV	2.4318G	102.16	Inf	-Inf	71.27	3	Horizontal	60	2.56	-	27.52	3.37	-				
PK	2.4835G	66.79	74.00	-7.21	35.75	3	Horizontal	60	2.56	-	27.64	3.40	-				
AV	2.4835G	49.86	54.00	-4.14	18.82	3	Horizontal	60	2.56	-	27.64	3.40	-				

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

2437MHz_TX

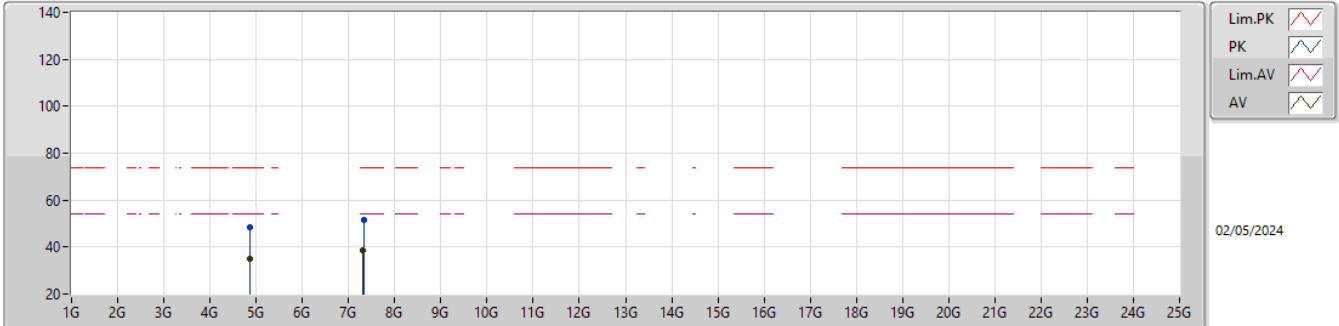


EUT_Z_2TX
Setting 26
04-E-J-8

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	4.8758G	51.84	74.00	-22.16	46.87	3	Vertical	343	2.01	-	32.50	5.72	33.25				
AV	4.8758G	38.49	54.00	-15.51	33.52	3	Vertical	343	2.01	-	32.50	5.72	33.25				
PK	7.30026G	52.16	74.00	-21.84	41.93	3	Vertical	41	1.82	-	37.20	7.12	34.09				
AV	7.29666G	38.68	54.00	-15.32	28.47	3	Vertical	41	1.82	-	37.19	7.11	34.09				

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

2437MHz_TX

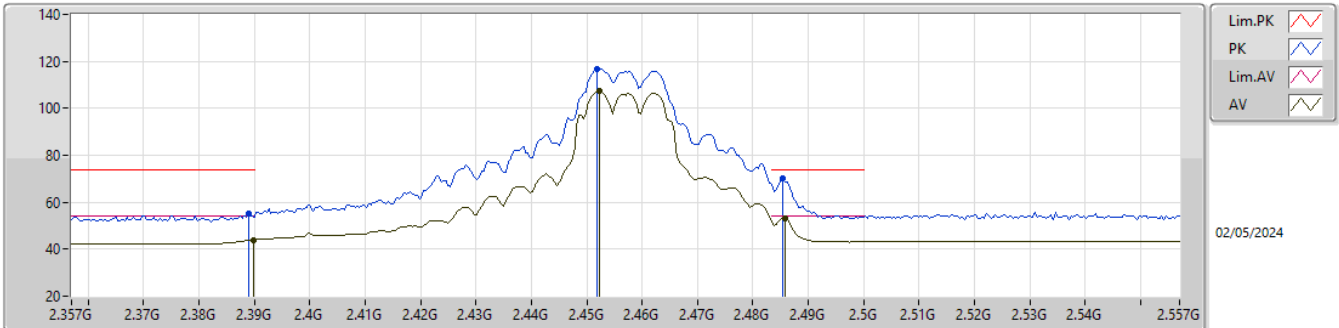


EUT_Z_2TX
Setting 26
04-E-J-8

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	4.87226G	48.53	74.00	-25.47	43.58	3	Horizontal	358	2.87	-	32.49	5.72	33.26			
AV	4.87196G	34.88	54.00	-19.12	29.94	3	Horizontal	358	2.87	-	32.49	5.71	33.26			
PK	7.32498G	51.52	74.00	-22.48	41.29	3	Horizontal	191	1.84	-	37.20	7.13	34.10			
AV	7.2966G	38.50	54.00	-15.50	28.29	3	Horizontal	191	1.84	-	37.19	7.11	34.09			

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

2457MHz_TX

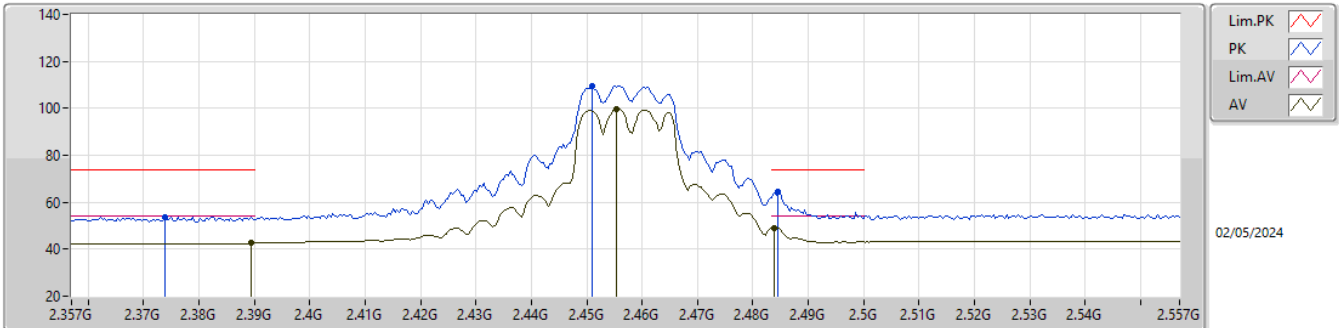


EUT_Z_2TX
Setting 22
04-E-J-8

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	2.389G	55.24	74.00	-18.76	24.49	3	Vertical	183	2.08	-	27.40	3.35	-				
AV	2.3898G	43.99	54.00	-10.01	13.24	3	Vertical	183	2.08	-	27.40	3.35	-				
PK	2.4518G	116.94	Inf	-Inf	85.96	3	Vertical	183	2.08	-	27.60	3.38	-				
AV	2.4522G	107.33	Inf	-Inf	76.35	3	Vertical	183	2.08	-	27.60	3.38	-				
PK	2.4854G	70.01	74.00	-3.99	38.96	3	Vertical	183	2.08	-	27.65	3.40	-				
AV	2.4858G	52.92	54.00	-1.08	21.86	3	Vertical	183	2.08	-	27.66	3.40	-				

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

2457MHz_TX

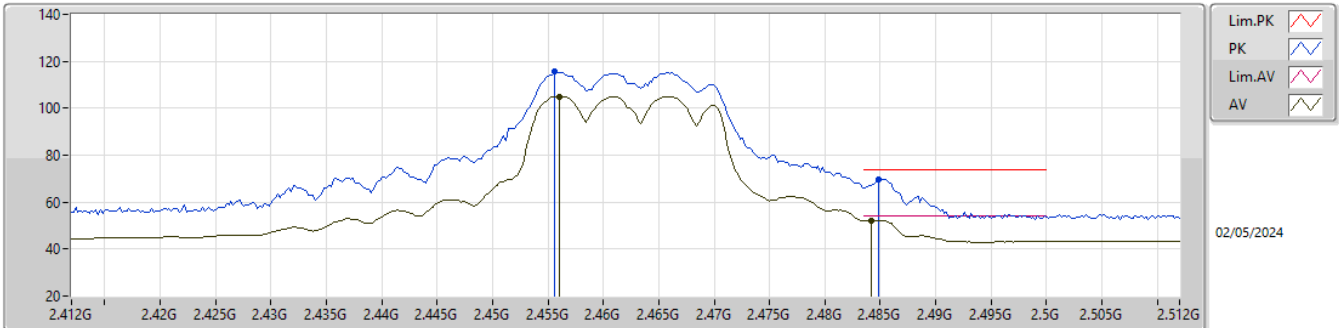


EUT_Z_2TX
Setting 22
04-E-J-8

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	2.3738G	53.71	74.00	-20.29	22.91	3	Horizontal	241	2.32	-	27.46	3.34	-			
AV	2.3894G	42.53	54.00	-11.47	11.78	3	Horizontal	241	2.32	-	27.40	3.35	-			
PK	2.451G	109.40	Inf	-Inf	78.42	3	Horizontal	241	2.32	-	27.60	3.38	-			
AV	2.4554G	99.69	Inf	-Inf	68.71	3	Horizontal	241	2.32	-	27.60	3.38	-			
PK	2.4846G	64.43	74.00	-9.57	33.38	3	Horizontal	241	2.32	-	27.65	3.40	-			
AV	2.4838G	49.00	54.00	-5.00	17.96	3	Horizontal	241	2.32	-	27.64	3.40	-			

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

2462MHz_TX

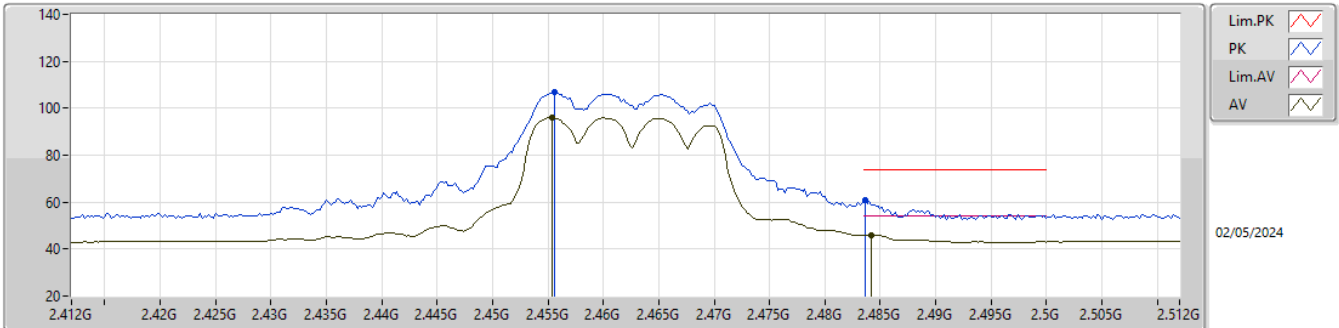


EUT_Z_2TX
Setting 20.5
04-E-J-8

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	2.4556G	115.64	Inf	-Inf	84.66	3	Vertical	197	2.72	-	27.60	3.38	-				
AV	2.456G	105.03	Inf	-Inf	74.05	3	Vertical	197	2.72	-	27.60	3.38	-				
PK	2.4848G	69.66	74.00	-4.34	38.61	3	Vertical	197	2.72	-	27.65	3.40	-				
AV	2.4842G	52.25	54.00	-1.75	21.21	3	Vertical	197	2.72	-	27.64	3.40	-				

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

2462MHz_TX

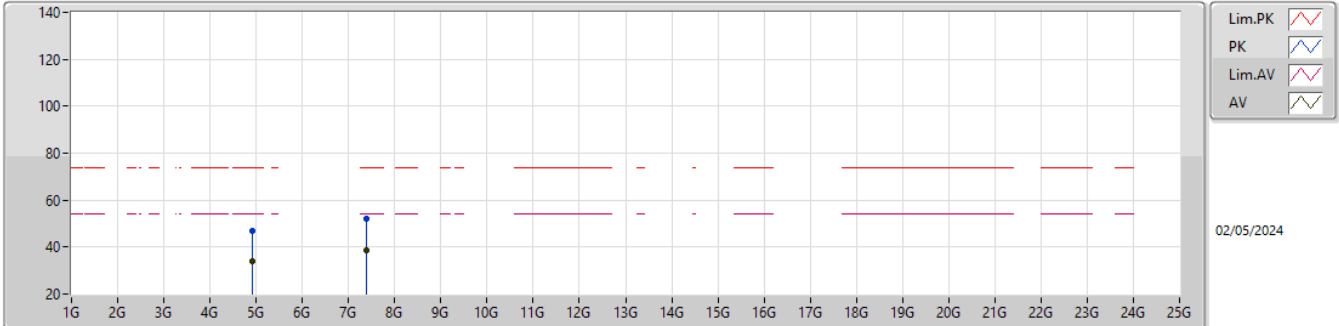


EUT_Z_2TX
Setting 20.5
04-E-J-8

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	2.4556G	106.69	Inf	-Inf	75.71	3	Horizontal	245	2.32	-	27.60	3.38	-			
AV	2.4554G	96.09	Inf	-Inf	65.11	3	Horizontal	245	2.32	-	27.60	3.38	-			
PK	2.4836G	60.68	74.00	-13.32	29.64	3	Horizontal	245	2.32	-	27.64	3.40	-			
AV	2.4842G	45.96	54.00	-8.04	14.92	3	Horizontal	245	2.32	-	27.64	3.40	-			

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

2462MHz_TX

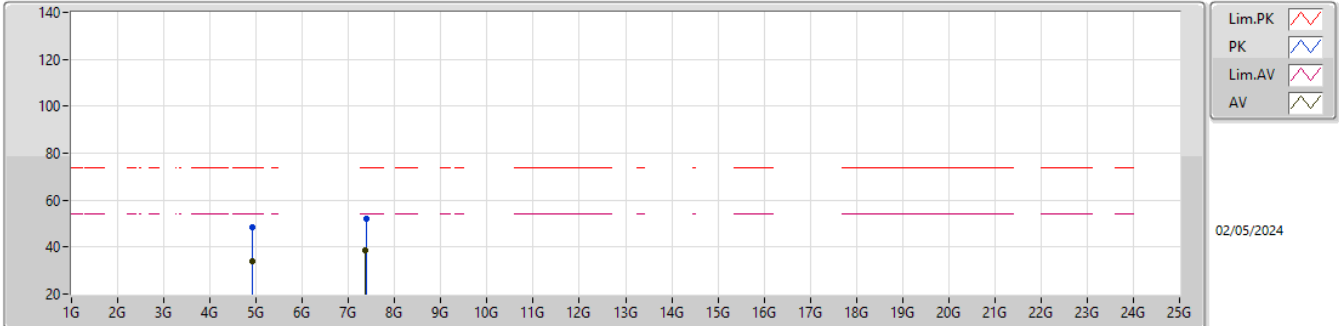


EUT_Z_2TX
Setting 20.5
04-E-J-8

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	4.90942G	47.15	74.00	-26.85	42.02	3	Vertical	356	2.79	-	32.62	5.75	33.24			
AV	4.92226G	33.96	54.00	-20.04	28.80	3	Vertical	356	2.79	-	32.64	5.76	33.24			
PK	7.37934G	52.04	74.00	-21.96	41.80	3	Vertical	162	2.59	-	37.20	7.16	34.12			
AV	7.37544G	38.67	54.00	-15.33	28.43	3	Vertical	162	2.59	-	37.20	7.16	34.12			

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

2462MHz_TX

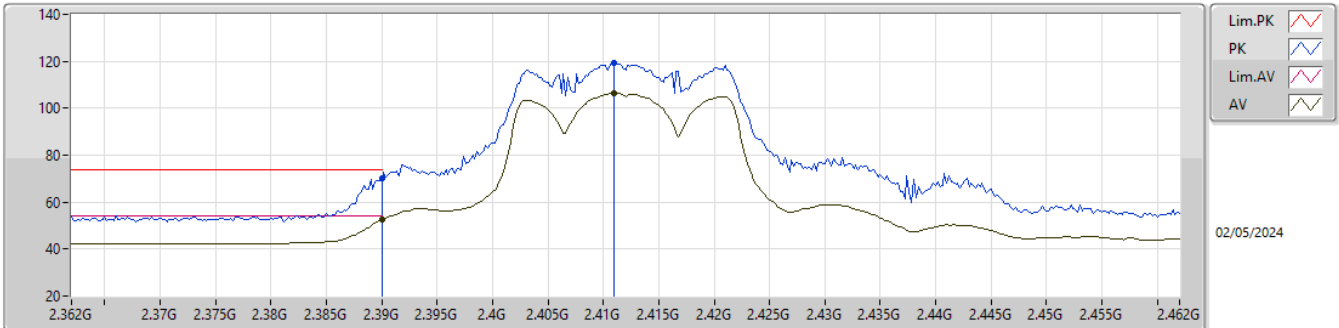


EUT_Z_2TX
Setting 20.5
04-E-J-8

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	4.9156G	48.67	74.00	-25.33	43.53	3	Horizontal	352	1.14	-	32.63	5.75	33.24			
AV	4.92214G	34.04	54.00	-19.96	28.88	3	Horizontal	352	1.14	-	32.64	5.76	33.24			
PK	7.38438G	51.99	74.00	-22.01	41.75	3	Horizontal	95	2.97	-	37.20	7.16	34.12			
AV	7.37454G	38.77	54.00	-15.23	28.53	3	Horizontal	95	2.97	-	37.20	7.16	34.12			

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

2412MHz_TX

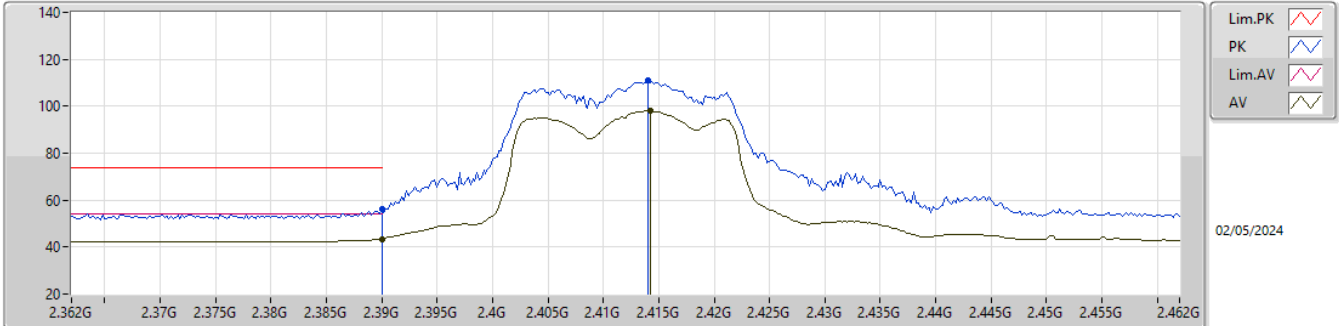


EUT_Z_2TX
Setting 20.5
04-E-J-8

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	2.39G	70.12	74.00	-3.88	39.37	3	Vertical	186	2.89	-	27.40	3.35	-			
AV	2.39G	52.38	54.00	-1.62	21.63	3	Vertical	186	2.89	-	27.40	3.35	-			
PK	2.411G	119.38	Inf	-Inf	88.52	3	Vertical	186	2.89	-	27.50	3.36	-			
AV	2.411G	106.42	Inf	-Inf	75.56	3	Vertical	186	2.89	-	27.50	3.36	-			

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

2412MHz_TX

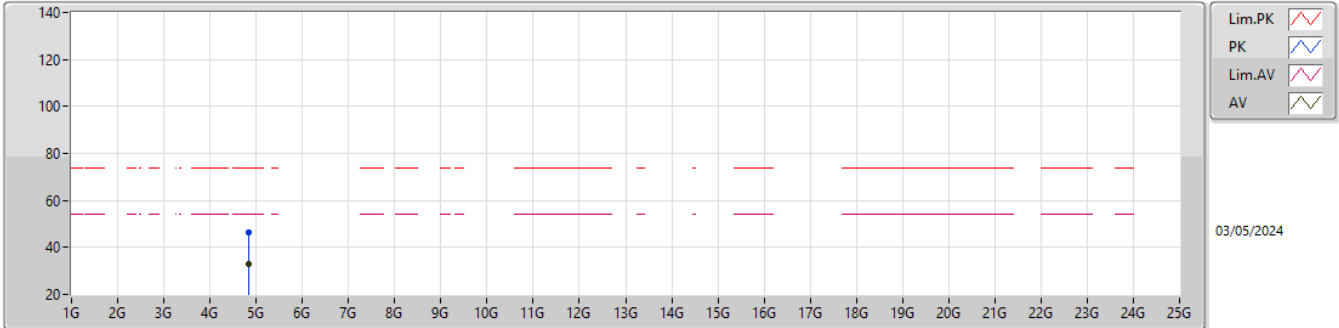


EUT_Z_2TX
Setting 20.5
04-E-J-8

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	2.39G	55.95	74.00	-18.05	25.20	3	Horizontal	57	2.63	-	27.40	3.35	-				
AV	2.39G	43.49	54.00	-10.51	12.74	3	Horizontal	57	2.63	-	27.40	3.35	-				
PK	2.414G	111.08	Inf	-Inf	80.22	3	Horizontal	57	2.63	-	27.50	3.36	-				
AV	2.4142G	97.95	Inf	-Inf	67.09	3	Horizontal	57	2.63	-	27.50	3.36	-				

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

2412MHz_TX

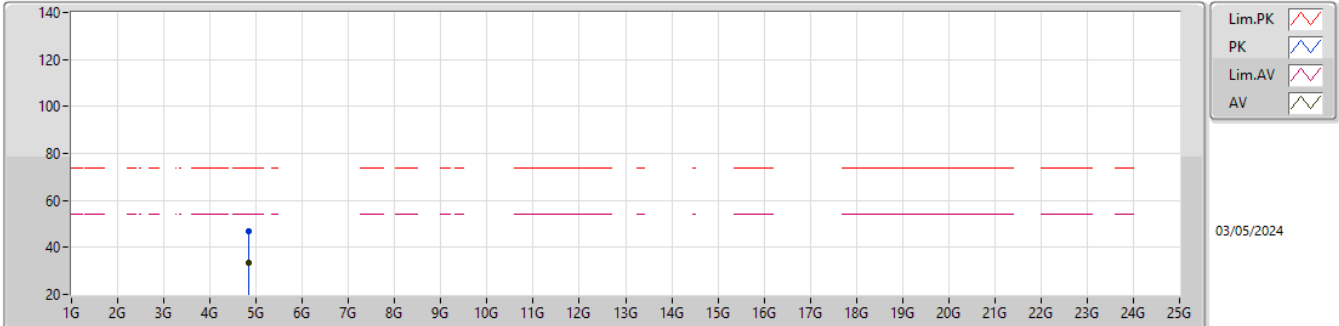


EUT_Z_2TX
Setting 20.5
04-E-J-8

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	4.82574G	46.28	74.00	-27.72	41.53	3	Vertical	240	1.74	-	32.35	5.67	33.27			
AV	4.83876G	33.14	54.00	-20.86	28.35	3	Vertical	240	1.74	-	32.38	5.68	33.27			

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

2412MHz_TX

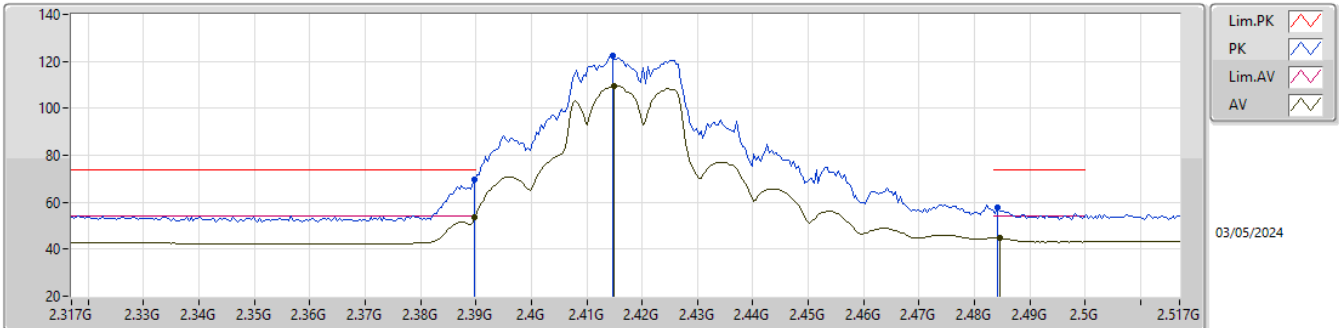


EUT_Z_2TX
Setting 20.5
04-E-J-8

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	4.8285G	46.65	74.00	-27.35	41.88	3	Horizontal	235	2.23	-	32.36	5.68	33.27			
AV	4.83834G	33.24	54.00	-20.76	28.45	3	Horizontal	235	2.23	-	32.38	5.68	33.27			

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

2417MHz_TX

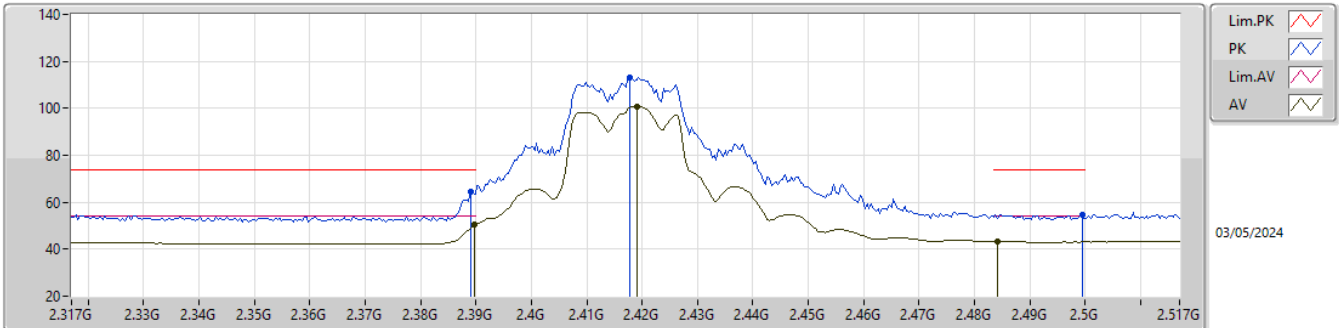


EUT_Z_2TX
Setting 23.5
04-E-J-8

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	2.3898G	69.50	74.00	-4.50	38.75	3	Vertical	197	2.58	-	27.40	3.35	-				
AV	2.3898G	53.73	54.00	-0.27	22.98	3	Vertical	197	2.58	-	27.40	3.35	-				
PK	2.4146G	122.27	Inf	-Inf	91.41	3	Vertical	197	2.58	-	27.50	3.36	-				
AV	2.415G	109.38	Inf	-Inf	78.52	3	Vertical	197	2.58	-	27.50	3.36	-				
PK	2.4842G	57.59	74.00	-16.41	26.55	3	Vertical	197	2.58	-	27.64	3.40	-				
AV	2.4846G	44.67	54.00	-9.33	13.62	3	Vertical	197	2.58	-	27.65	3.40	-				

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

2417MHz_TX

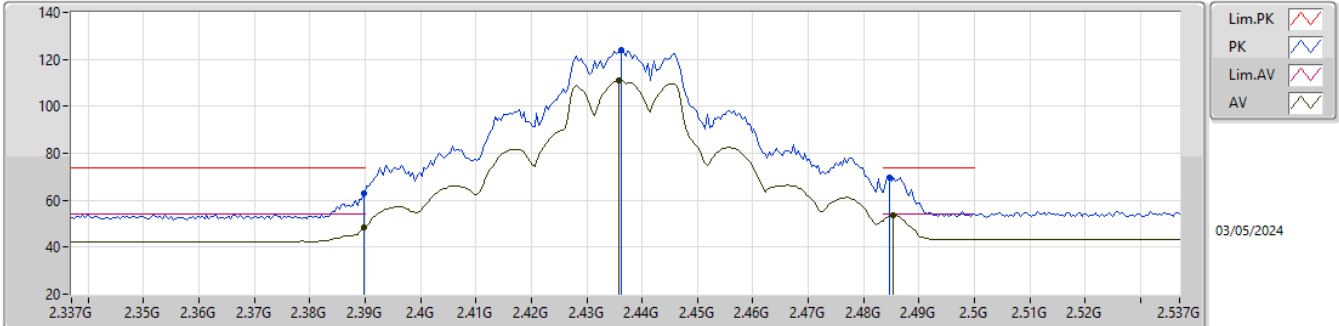


EUT_Z_2TX
Setting 23.5
04-E-J-8

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	2.389G	64.66	74.00	-9.34	33.91	3	Horizontal	58	2.67	-	27.40	3.35	-			
AV	2.3898G	50.39	54.00	-3.61	19.64	3	Horizontal	58	2.67	-	27.40	3.35	-			
PK	2.4178G	113.25	Inf	-Inf	82.39	3	Horizontal	58	2.67	-	27.50	3.36	-			
AV	2.419G	100.91	Inf	-Inf	70.05	3	Horizontal	58	2.67	-	27.50	3.36	-			
PK	2.4994G	54.88	74.00	-19.12	23.78	3	Horizontal	58	2.67	-	27.70	3.40	-			
AV	2.4842G	43.46	54.00	-10.54	12.42	3	Horizontal	58	2.67	-	27.64	3.40	-			

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

2437MHz_TX

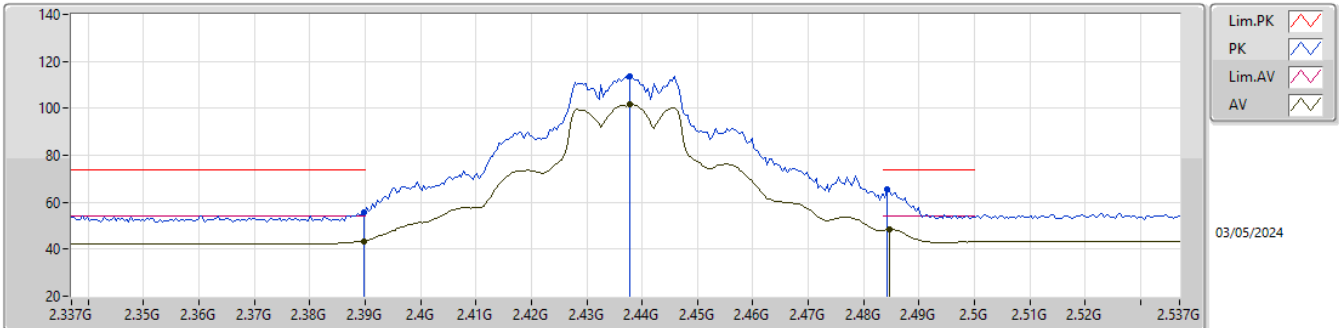


EUT_Z_2TX
Setting 25
04-E-J-8

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	2.3898G	62.88	74.00	-11.12	32.13	3	Vertical	190	2.51	-	27.40	3.35	-			
AV	2.3898G	48.24	54.00	-5.76	17.49	3	Vertical	190	2.51	-	27.40	3.35	-			
PK	2.4362G	123.83	Inf	-Inf	92.90	3	Vertical	190	2.51	-	27.56	3.37	-			
AV	2.4358G	110.94	Inf	-Inf	80.01	3	Vertical	190	2.51	-	27.56	3.37	-			
PK	2.4846G	69.83	74.00	-4.17	38.78	3	Vertical	190	2.51	-	27.65	3.40	-			
AV	2.4854G	53.56	54.00	-0.44	22.51	3	Vertical	190	2.51	-	27.65	3.40	-			

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

2437MHz_TX

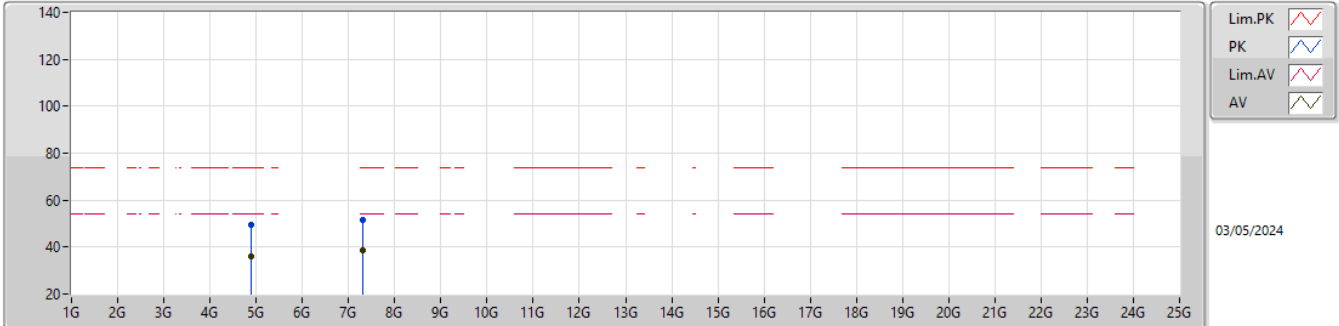


EUT_Z_2TX
Setting 25
04-E-J-8

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	2.3898G	55.88	74.00	-18.12	25.13	3	Horizontal	61	2.74	-	27.40	3.35	-				
AV	2.3898G	43.53	54.00	-10.47	12.78	3	Horizontal	61	2.74	-	27.40	3.35	-				
PK	2.4378G	113.72	Inf	-Inf	82.77	3	Horizontal	61	2.74	-	27.58	3.37	-				
AV	2.4378G	101.63	Inf	-Inf	70.68	3	Horizontal	61	2.74	-	27.58	3.37	-				
PK	2.4842G	65.29	74.00	-8.71	34.25	3	Horizontal	61	2.74	-	27.64	3.40	-				
AV	2.4846G	48.35	54.00	-5.65	17.30	3	Horizontal	61	2.74	-	27.65	3.40	-				

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

2437MHz_TX

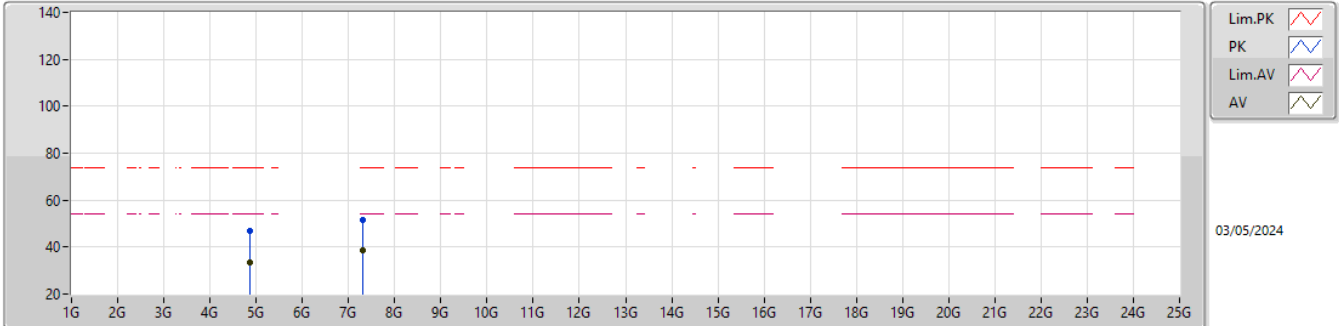


EUT_Z_2TX
Setting 25
04-E-J-8

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	4.87988G	49.66	74.00	-24.34	44.67	3	Vertical	218	2.99	-	32.52	5.72	33.25			
AV	4.88852G	36.22	54.00	-17.78	31.19	3	Vertical	218	2.99	-	32.55	5.73	33.25			
PK	7.31952G	51.78	74.00	-22.22	41.55	3	Vertical	35	2.80	-	37.20	7.13	34.10			
AV	7.29666G	38.61	54.00	-15.39	28.40	3	Vertical	35	2.80	-	37.19	7.11	34.09			

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

2437MHz_TX

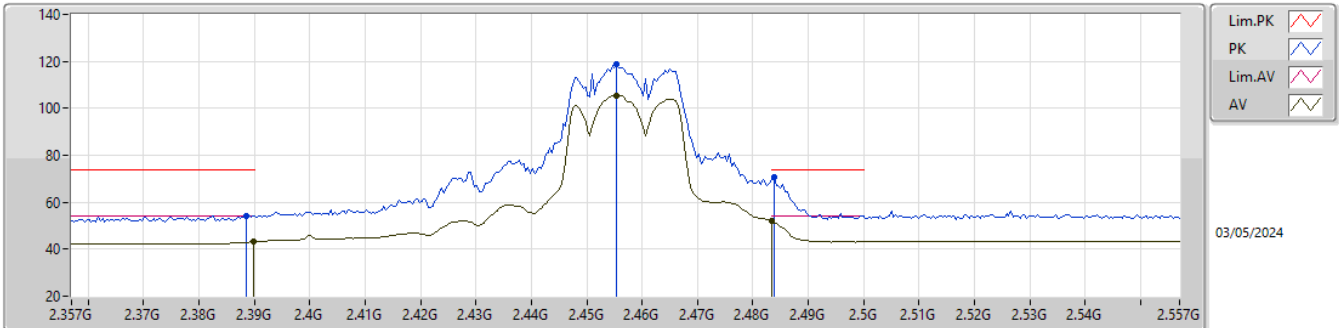


EUT_Z_2TX
Setting 25
04-E-J-8

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	4.86968G	47.09	74.00	-26.91	42.16	3	Horizontal	245	1.09	-	32.48	5.71	33.26			
AV	4.86758G	33.23	54.00	-20.77	28.31	3	Horizontal	245	1.09	-	32.47	5.71	33.26			
PK	7.31226G	51.62	74.00	-22.38	41.39	3	Horizontal	353	1.25	-	37.20	7.12	34.09			
AV	7.29702G	38.67	54.00	-15.33	28.46	3	Horizontal	353	1.25	-	37.19	7.11	34.09			

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

2457MHz_TX

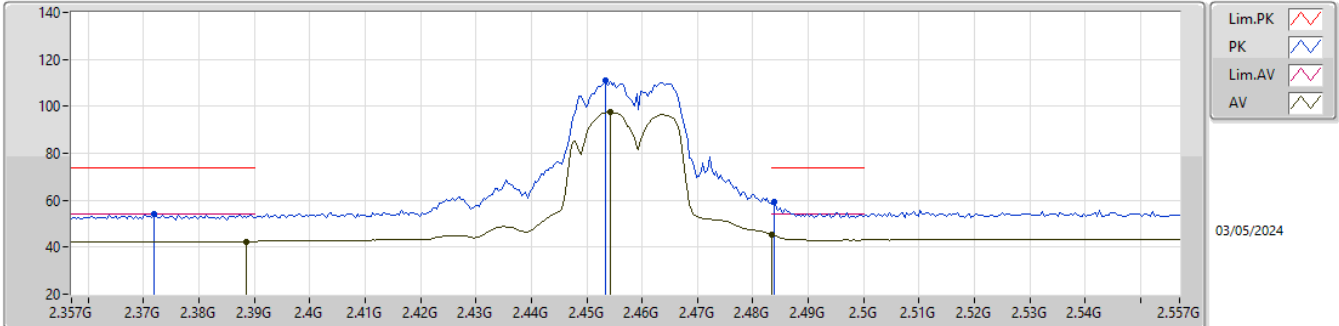


EUT_Z_2TX
Setting 20.5
04-E-J-8

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	2.3886G	54.21	74.00	-19.79	23.46	3	Vertical	193	2.78	-	27.40	3.35	-			
AV	2.3898G	43.08	54.00	-10.92	12.33	3	Vertical	193	2.78	-	27.40	3.35	-			
PK	2.4554G	118.56	Inf	-Inf	87.58	3	Vertical	193	2.78	-	27.60	3.38	-			
AV	2.4554G	105.38	Inf	-Inf	74.40	3	Vertical	193	2.78	-	27.60	3.38	-			
PK	2.4838G	70.47	74.00	-3.53	39.43	3	Vertical	193	2.78	-	27.64	3.40	-			
AV	2.4835G	51.86	54.00	-2.14	20.82	3	Vertical	193	2.78	-	27.64	3.40	-			

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

2457MHz_TX

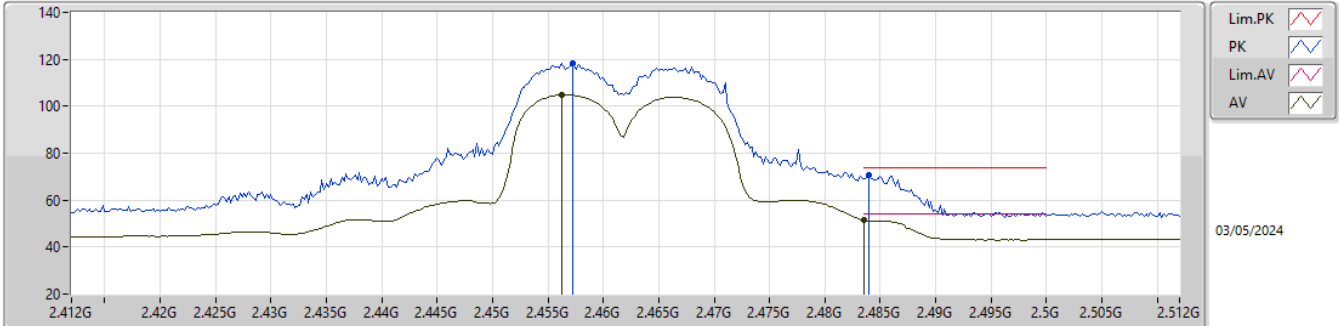


EUT_Z_2TX
Setting 20.5
04-E-J-8

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	2.3718G	54.13	74.00	-19.87	23.31	3	Horizontal	240	2.32	-	27.48	3.34	-				
AV	2.3886G	42.49	54.00	-11.51	11.74	3	Horizontal	240	2.32	-	27.40	3.35	-				
PK	2.4534G	111.18	Inf	-Inf	80.20	3	Horizontal	240	2.32	-	27.60	3.38	-				
AV	2.4542G	97.44	Inf	-Inf	66.46	3	Horizontal	240	2.32	-	27.60	3.38	-				
PK	2.4838G	59.17	74.00	-14.83	28.13	3	Horizontal	240	2.32	-	27.64	3.40	-				
AV	2.4835G	45.33	54.00	-8.67	14.29	3	Horizontal	240	2.32	-	27.64	3.40	-				

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

2462MHz_TX

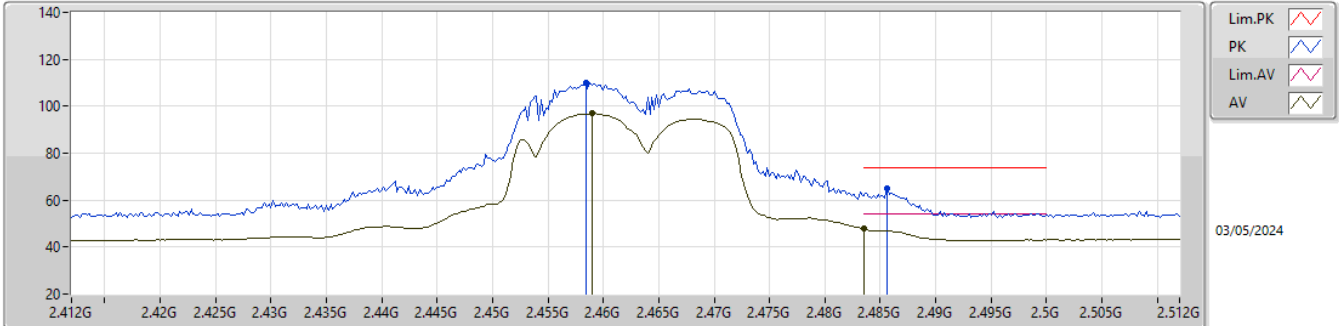


EUT_Z_2TX
Setting 20
04-E-J-8

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	2.4572G	118.25	Inf	-Inf	87.27	3	Vertical	160	2.75	-	27.60	3.38	-			
AV	2.4562G	104.78	Inf	-Inf	73.80	3	Vertical	160	2.75	-	27.60	3.38	-			
PK	2.484G	70.57	74.00	-3.43	39.53	3	Vertical	160	2.75	-	27.64	3.40	-			
AV	2.4835G	51.43	54.00	-2.57	20.39	3	Vertical	160	2.75	-	27.64	3.40	-			

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

2462MHz_TX

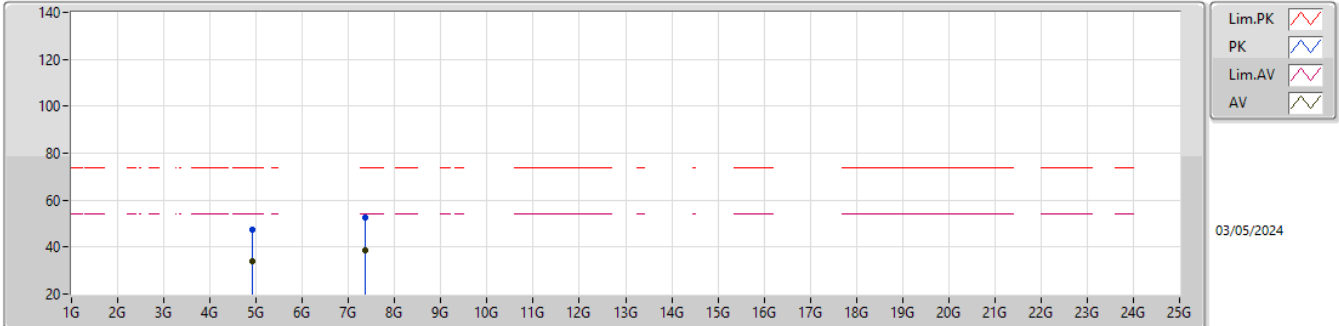


EUT_Z_2TX
Setting 20
04-E-J-8

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	2.4584G	109.97	Inf	-Inf	78.99	3	Horizontal	241	2.30	-	27.60	3.38	-			
AV	2.459G	96.90	Inf	-Inf	65.92	3	Horizontal	241	2.30	-	27.60	3.38	-			
PK	2.4856G	65.23	74.00	-8.77	34.17	3	Horizontal	241	2.30	-	27.66	3.40	-			
AV	2.4835G	47.92	54.00	-6.08	16.88	3	Horizontal	241	2.30	-	27.64	3.40	-			

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

2462MHz_TX

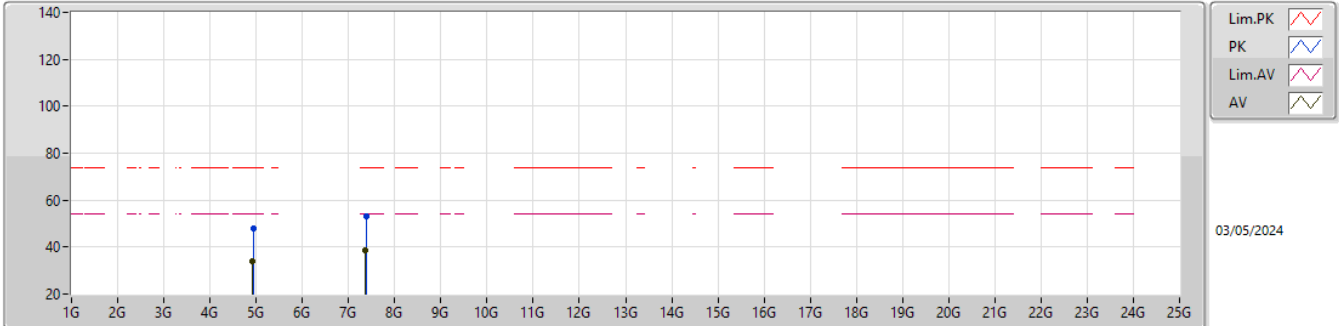


EUT_Z_2TX
Setting 20
04-E-J-8

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	4.92238G	47.48	74.00	-26.52	42.32	3	Vertical	338	2.20	-	32.64	5.76	33.24			
AV	4.91968G	34.01	54.00	-19.99	28.85	3	Vertical	338	2.20	-	32.64	5.76	33.24			
PK	7.37412G	52.34	74.00	-21.66	42.10	3	Vertical	164	1.13	-	37.20	7.16	34.12			
AV	7.37328G	38.83	54.00	-15.17	28.59	3	Vertical	164	1.13	-	37.20	7.16	34.12			

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

2462MHz_TX

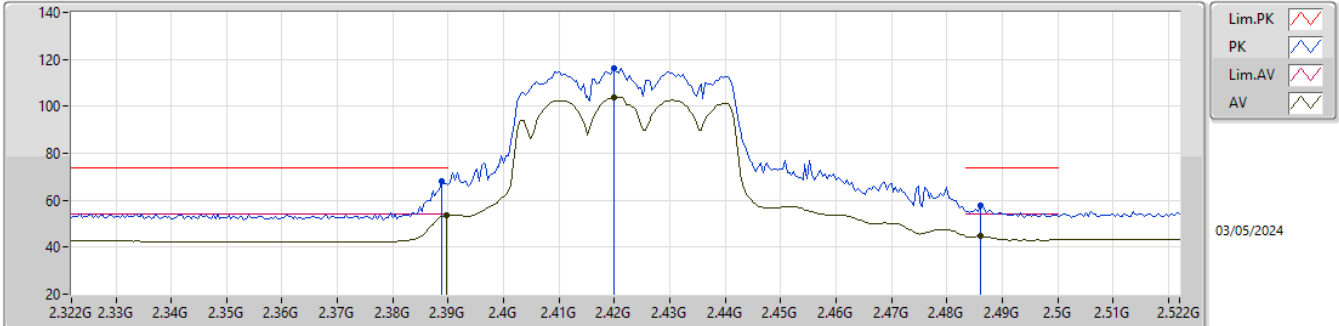


EUT_Z_2TX
Setting 20
04-E-J-8

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	4.93642G	47.88	74.00	-26.12	42.67	3	Horizontal	137	1.40	-	32.67	5.77	33.23			
AV	4.9195G	34.01	54.00	-19.99	28.85	3	Horizontal	137	1.40	-	32.64	5.76	33.24			
PK	7.3794G	52.89	74.00	-21.11	42.65	3	Horizontal	89	2.28	-	37.20	7.16	34.12			
AV	7.37292G	38.72	54.00	-15.28	28.48	3	Horizontal	89	2.28	-	37.20	7.16	34.12			

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

2422MHz_TX

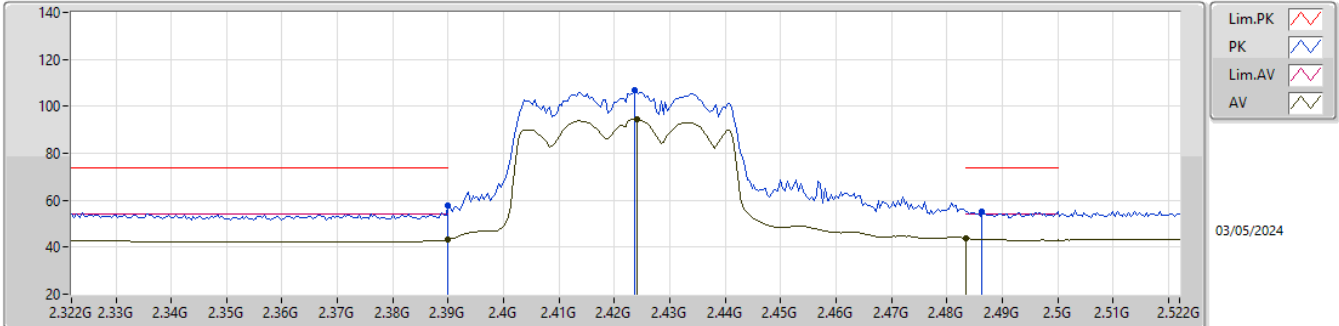


EUT_Z_2TX
Setting 20
04-E-J-8

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	2.3888G	68.35	74.00	-5.65	37.60	3	Vertical	195	2.27	-	27.40	3.35	-			
AV	2.3896G	53.57	54.00	-0.43	22.82	3	Vertical	195	2.27	-	27.40	3.35	-			
PK	2.42G	116.28	Inf	-Inf	85.42	3	Vertical	195	2.27	-	27.50	3.36	-			
AV	2.42G	103.96	Inf	-Inf	73.10	3	Vertical	195	2.27	-	27.50	3.36	-			
PK	2.486G	57.77	74.00	-16.23	26.71	3	Vertical	195	2.27	-	27.66	3.40	-			
AV	2.486G	44.72	54.00	-9.28	13.66	3	Vertical	195	2.27	-	27.66	3.40	-			

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

2422MHz_TX

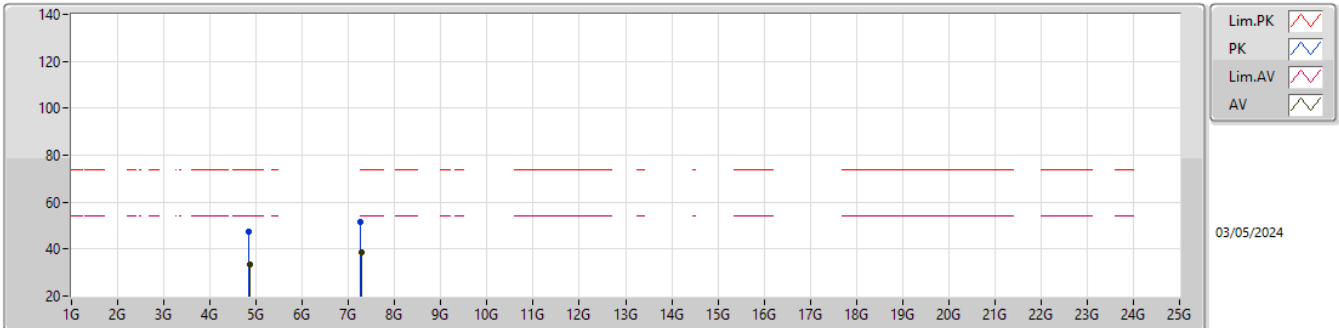


EUT_Z_2TX
Setting 20
04-E-J-8

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	2.39G	57.57	74.00	-16.43	26.82	3	Horizontal	59	2.63	-	27.40	3.35	-				
AV	2.39G	43.30	54.00	-10.70	12.55	3	Horizontal	59	2.63	-	27.40	3.35	-				
PK	2.4236G	106.77	Inf	-Inf	75.91	3	Horizontal	59	2.63	-	27.50	3.36	-				
AV	2.424G	94.40	Inf	-Inf	63.54	3	Horizontal	59	2.63	-	27.50	3.36	-				
PK	2.4864G	55.27	74.00	-18.73	24.21	3	Horizontal	59	2.63	-	27.66	3.40	-				
AV	2.4835G	43.81	54.00	-10.19	12.77	3	Horizontal	59	2.63	-	27.64	3.40	-				

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

2422MHz_TX

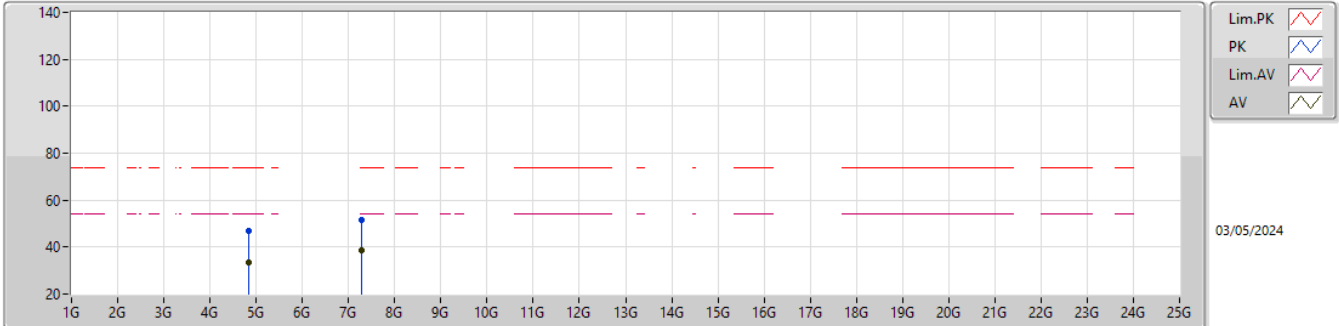


EUT_Z_2TX
Setting 20
04-E-J-8

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	4.83212G	47.43	74.00	-26.57	42.66	3	Vertical	315	2.57	-	32.36	5.68	33.27			
AV	4.85246G	33.28	54.00	-20.72	28.43	3	Vertical	315	2.57	-	32.41	5.70	33.26			
PK	7.25904G	51.42	74.00	-22.58	41.36	3	Vertical	138	1.30	-	37.04	7.09	34.07			
AV	7.28016G	38.65	54.00	-15.35	28.51	3	Vertical	138	1.30	-	37.12	7.10	34.08			

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

2422MHz_TX

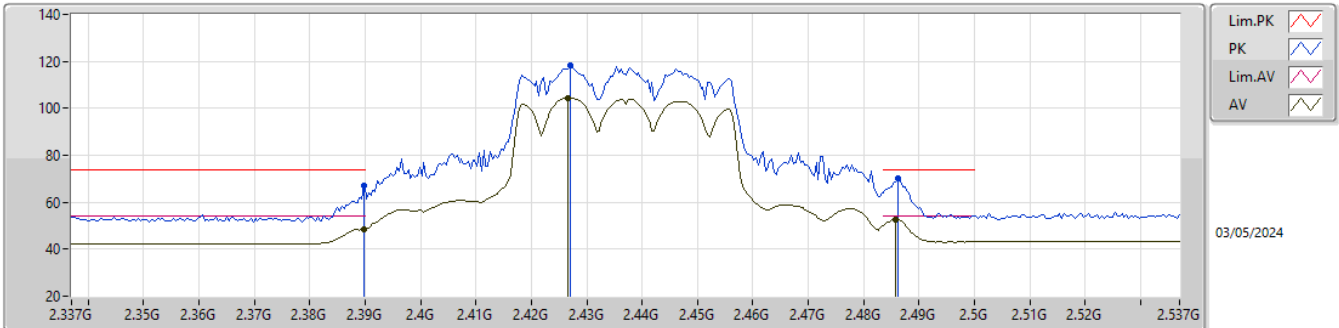


EUT_Z_2TX
Setting 20
04-E-J-8

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	4.8497G	46.96	74.00	-27.04	42.13	3	Horizontal	203	2.38	-	32.40	5.69	33.26			
AV	4.83848G	33.22	54.00	-20.78	28.43	3	Horizontal	203	2.38	-	32.38	5.68	33.27			
PK	7.27374G	51.50	74.00	-22.50	41.39	3	Horizontal	194	2.96	-	37.09	7.10	34.08			
AV	7.27986G	38.74	54.00	-15.26	28.60	3	Horizontal	194	2.96	-	37.12	7.10	34.08			

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

2437MHz_TX

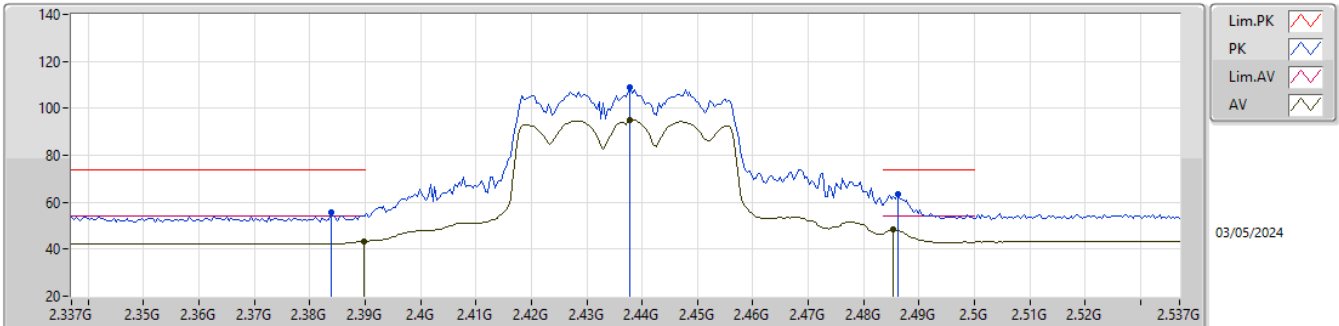


EUT_Z_2TX
Setting 21
04-E-J-8

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	2.3898G	67.25	74.00	-6.75	36.50	3	Vertical	185	2.51	-	27.40	3.35	-			
AV	2.3898G	48.40	54.00	-5.60	17.65	3	Vertical	185	2.51	-	27.40	3.35	-			
PK	2.427G	118.17	Inf	-Inf	87.31	3	Vertical	185	2.51	-	27.50	3.36	-			
AV	2.4266G	104.48	Inf	-Inf	73.62	3	Vertical	185	2.51	-	27.50	3.36	-			
PK	2.4862G	70.05	74.00	-3.95	38.99	3	Vertical	185	2.51	-	27.66	3.40	-			
AV	2.4858G	52.56	54.00	-1.44	21.50	3	Vertical	185	2.51	-	27.66	3.40	-			

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

2437MHz_TX

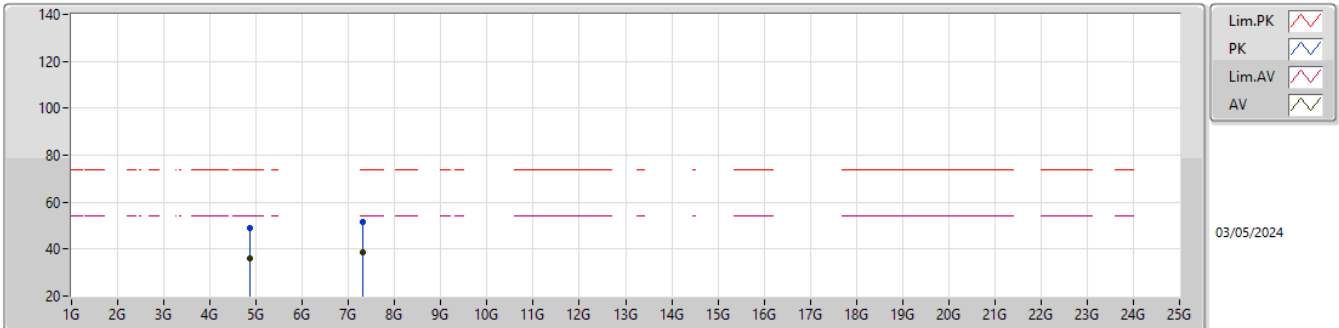


EUT_Z_2TX
Setting 21
04-E-J-8

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	2.3838G	55.44	74.00	-18.56	24.70	3	Horizontal	60	2.71	-	27.40	3.34	-			
AV	2.3898G	43.38	54.00	-10.62	12.63	3	Horizontal	60	2.71	-	27.40	3.35	-			
PK	2.4378G	108.74	Inf	-Inf	77.79	3	Horizontal	60	2.71	-	27.58	3.37	-			
AV	2.4378G	95.13	Inf	-Inf	64.18	3	Horizontal	60	2.71	-	27.58	3.37	-			
PK	2.4862G	63.44	74.00	-10.56	32.38	3	Horizontal	60	2.71	-	27.66	3.40	-			
AV	2.4854G	48.29	54.00	-5.71	17.24	3	Horizontal	60	2.71	-	27.65	3.40	-			

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

2437MHz_TX

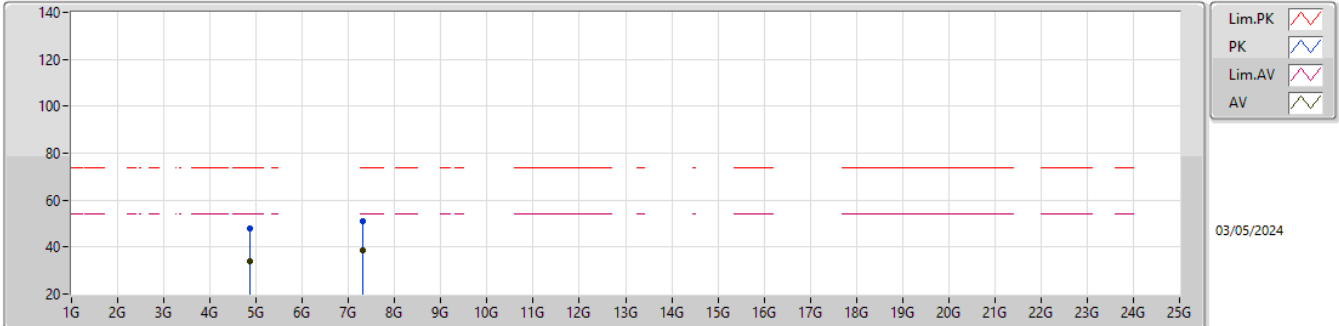


EUT_Z_2TX
Setting 21
04-E-J-8

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	4.87598G	48.90	74.00	-25.10	43.93	3	Vertical	25	1.69	-	32.50	5.72	33.25			
AV	4.86938G	35.93	54.00	-18.07	31.00	3	Vertical	25	1.69	-	32.48	5.71	33.26			
PK	7.29888G	51.44	74.00	-22.56	41.22	3	Vertical	332	2.54	-	37.20	7.11	34.09			
AV	7.2966G	38.46	54.00	-15.54	28.25	3	Vertical	332	2.54	-	37.19	7.11	34.09			

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

2437MHz_TX

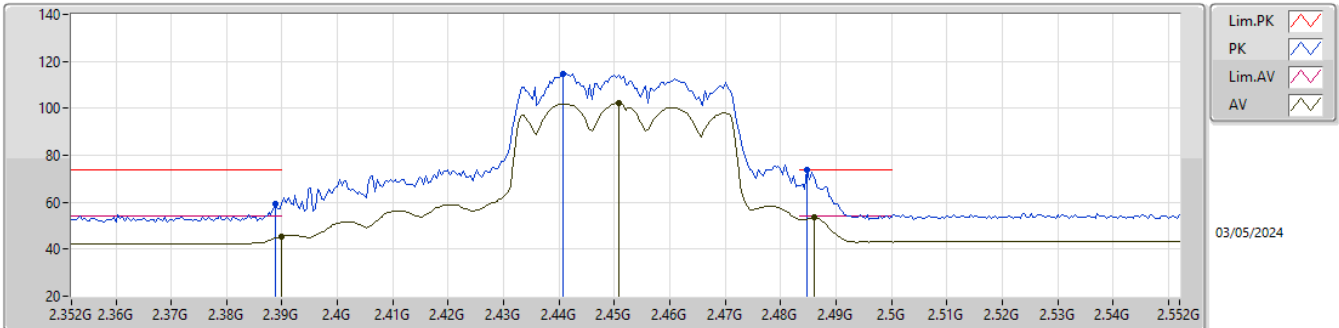


EUT_Z_2TX
Setting 21
04-E-J-8

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	4.86062G	47.94	74.00	-26.06	43.06	3	Horizontal	100	1.73	-	32.44	5.70	33.26			
AV	4.86698G	33.96	54.00	-20.04	29.04	3	Horizontal	100	1.73	-	32.47	5.71	33.26			
PK	7.30308G	51.26	74.00	-22.74	41.03	3	Horizontal	126	1.24	-	37.20	7.12	34.09			
AV	7.29768G	38.43	54.00	-15.57	28.22	3	Horizontal	126	1.24	-	37.19	7.11	34.09			

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

2452MHz_TX

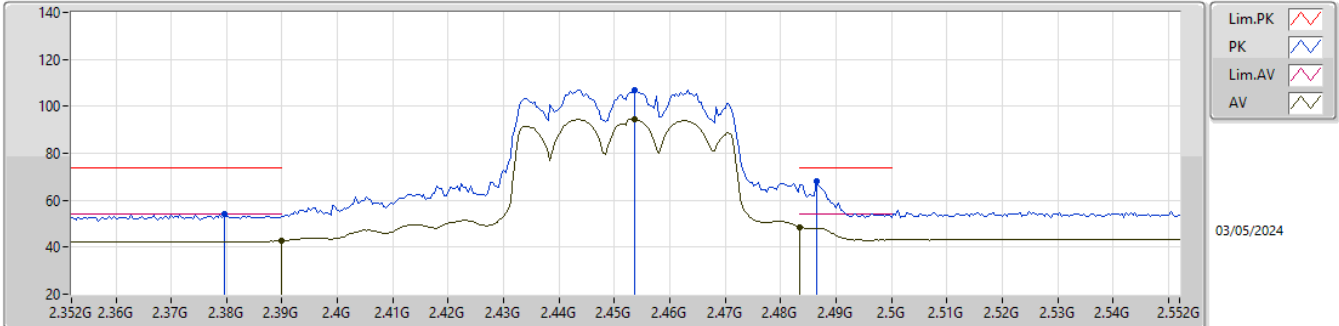


EUT_Z_2TX
Setting 20
04-E-J-8

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	2.3888G	59.34	74.00	-14.66	28.59	3	Vertical	191	1.80	-	27.40	3.35	-			
AV	2.39G	45.44	54.00	-8.56	14.69	3	Vertical	191	1.80	-	27.40	3.35	-			
PK	2.4408G	114.83	Inf	-Inf	83.86	3	Vertical	191	1.80	-	27.60	3.37	-			
AV	2.4508G	102.00	Inf	-Inf	71.02	3	Vertical	191	1.80	-	27.60	3.38	-			
PK	2.4848G	73.75	74.00	-0.25	42.70	3	Vertical	191	1.80	-	27.65	3.40	-			
AV	2.486G	53.41	54.00	-0.59	22.35	3	Vertical	191	1.80	-	27.66	3.40	-			

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

2452MHz_TX

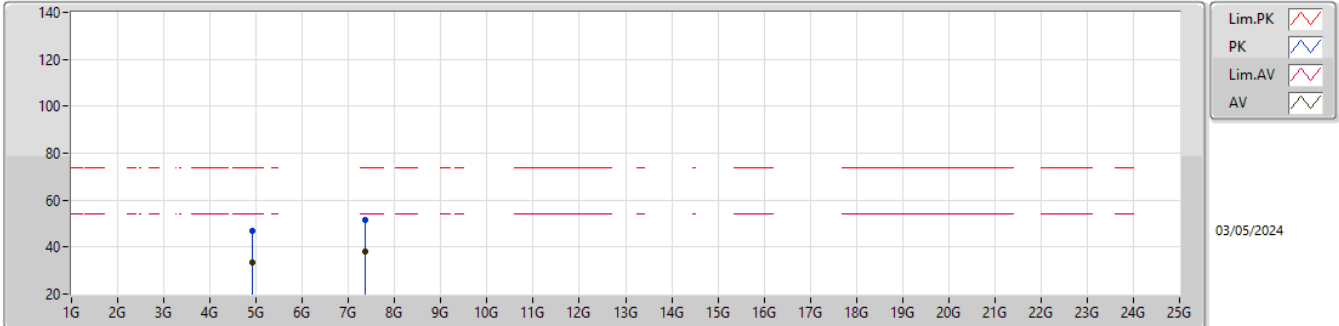


EUT_Z_2TX
Setting 20
04-E-J-8

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	2.3796G	53.96	74.00	-20.04	23.22	3	Horizontal	52	2.41	-	27.40	3.34	-			
AV	2.39G	42.72	54.00	-11.28	11.97	3	Horizontal	52	2.41	-	27.40	3.35	-			
PK	2.4536G	107.04	Inf	-Inf	76.06	3	Horizontal	52	2.41	-	27.60	3.38	-			
AV	2.4536G	94.68	Inf	-Inf	63.70	3	Horizontal	52	2.41	-	27.60	3.38	-			
PK	2.4864G	67.90	74.00	-6.10	36.84	3	Horizontal	52	2.41	-	27.66	3.40	-			
AV	2.4835G	48.55	54.00	-5.45	17.51	3	Horizontal	52	2.41	-	27.64	3.40	-			

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

2452MHz_TX

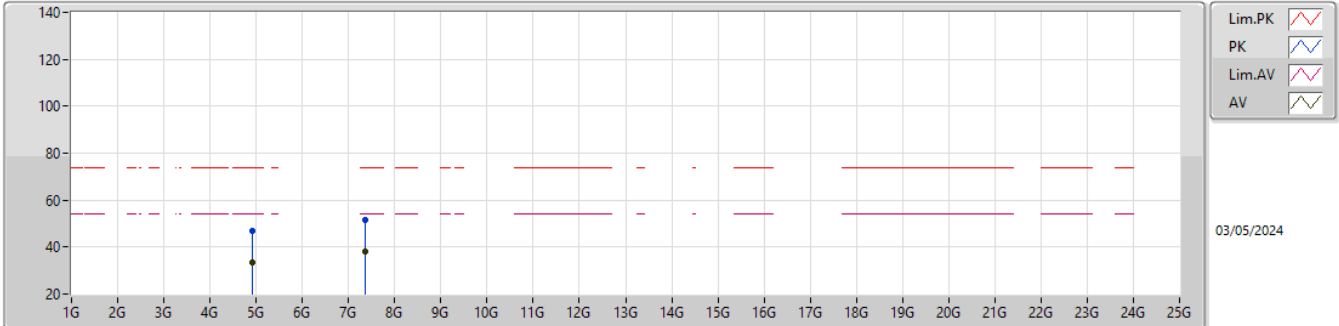


EUT_Z_2TX
Setting 20
04-E-J-8

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	4.9091G	46.90	74.00	-27.10	41.77	3	Vertical	257	1.16	-	32.62	5.75	33.24			
AV	4.91342G	33.67	54.00	-20.33	28.53	3	Vertical	257	1.16	-	32.63	5.75	33.24			
PK	7.35516G	51.52	74.00	-22.48	41.28	3	Vertical	261	1.81	-	37.20	7.15	34.11			
AV	7.35582G	37.91	54.00	-16.09	27.67	3	Vertical	261	1.81	-	37.20	7.15	34.11			

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

2452MHz_TX



EUT_Z_2TX
Setting 20
04-E-J-8

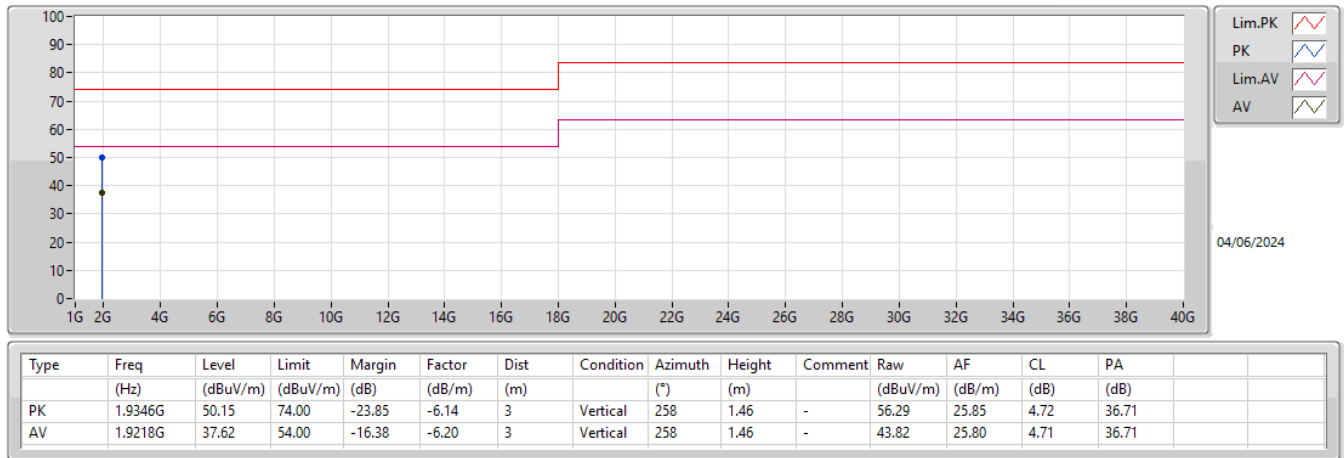
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.9163G	46.81	74.00	-27.19	41.67	3	Horizontal	43	2.74	-	32.63	5.75	33.24				
AV	4.91084G	33.59	54.00	-20.41	28.46	3	Horizontal	43	2.74	-	32.62	5.75	33.24				
PK	7.35378G	51.74	74.00	-22.26	41.51	3	Horizontal	250	2.90	-	37.20	7.14	34.11				
AV	7.35606G	37.98	54.00	-16.02	27.74	3	Horizontal	250	2.90	-	37.20	7.15	34.11				



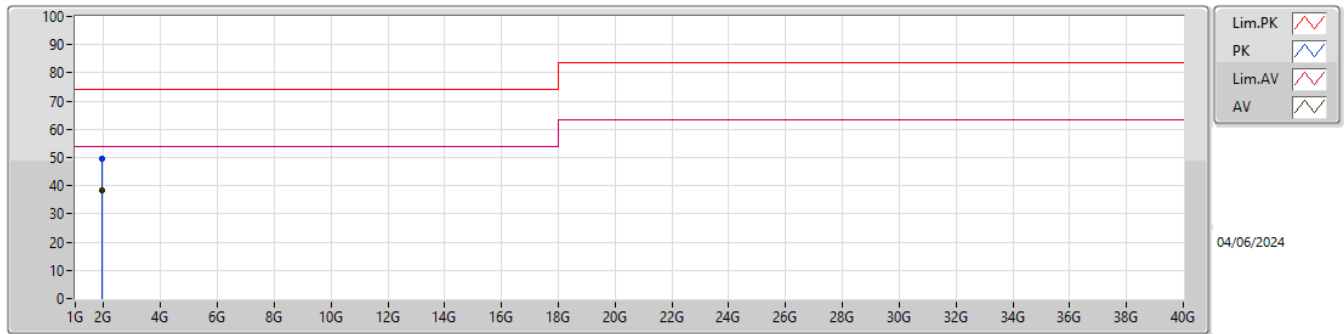
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.9288G	38.51	54.00	-15.49	Horizontal

Mode 1



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	1.9251G	49.63	74.00	-24.37	-6.20	3	Horizontal	177	1.46	-	55.83	25.80	4.71	36.71		
AV	1.9288G	38.51	54.00	-15.49	-6.20	3	Horizontal	177	1.46	-	44.71	25.80	4.71	36.71		