



RADIO TEST REPORT

FCC ID : RIWZAT6000
Equipment : ATSC 3.0 STB
Brand Name : ZINWELL
Model Name : ZAT-6000
Applicant : ZINWELL CORPORATION
No. 2 Wen-Hua Road, Hsinchu Industrial Park, Hsinchu, Taiwan
Manufacturer : ZINWELL CORPORATION
No. 2 Wen-Hua Road, Hsinchu Industrial Park, Hsinchu, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Aug. 23, 2023, and testing was started from Aug. 24, 2023 and completed on Sep. 04, 2023. 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.)



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



Summary of Test Result

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

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: Viola Huang



1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX

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.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)		
						2.4GHz	5GHz UNII 1	5GHz UNII 3
1	1	INPAQ	ZAT-6000	PCB Antenna	I-PEX	2.42	3.13	4.41

Note: The above information was declared by manufacturer.

<For 2.4GHz Band>

For IEEE 802.11b/g/n mode (1TX/1RX)

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

<For 5GHz Band UNII 1, UNII 3>

For IEEE 802.11a/n/ac mode (1TX/1RX)

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

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.99	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.959	0.18	2.066m	1k
802.11n HT20	0.948	0.23	1.921m	1k
802.11n HT40	0.881	0.55	945u	3k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	DOS [ver 10.0.10586]			

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	KJ Chang	22.5~24.7 / 62~68	Sep. 04, 2023
Radiated Below 1GHz	03CH03-CB	Wendy Hsu	22.4~23.5 / 55~58	Aug. 31, 2023
Radiated Above 1GHz	03CH03-CB	Wendy Hsu	22.4~23.5 / 55~58	Aug. 24, 2023~Sep. 02, 2023
AC Conduction	CO01-CB	Summer Li	22~23 / 50~51	Sep. 04, 2023

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
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%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	57
2437MHz	55
2462MHz	52
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	57
2417MHz	63
2437MHz	63
2457MHz	63
2462MHz	56
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	55
2417MHz	63
2437MHz	63
2457MHz	63
2462MHz	55
802.11n HT40_Nss1,(MCS0)_1TX	-
2422MHz	53
2427MHz	53
2437MHz	56
2447MHz	52
2452MHz	51



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT with WLAN 2.4GHz + Coaxial port-Video IN + USB port-load + Adapter
2	EUT with WLAN 5GHz + Coaxial port-Video IN + USB port-load + Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT with WLAN 2.4GHz + Coaxial port-load + USB port-Video IN + Adapter
For operating mode 3 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link After evaluating, the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.
1	EUT in Z axis with WLAN 2.4GHz + Coaxial port-Video IN + USB port-load + Adapter
2	EUT in Z axis with WLAN 5GHz + Coaxial port-Video IN + USB port-load + Adapter
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in Z axis with WLAN 5GHz + Coaxial port-load + USB port-Video IN + Adapter
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX After evaluating, the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.
1	EUT in Z axis



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

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	APD	WB-18Q12FU1	INPUT: 100-240V~,50-60Hz,0.6A Max. OUTPUT: 12V, 1.5A
Others			
Remote controller*1			
HDMI cable*1: Shielding, 3m			
Coaxial cable*1: Shielding, 3m			
Window antenna*1			

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Flash disk3.0	Transcend	JetFlash-700	N/A
B	LCD Monitor	PHILIPS	288E2A/96	N/A
D	AP Router	ASUS	RT-AX88U	MSQ-RTAXHP00
E	LAN NB	DELL	T3400	N/A

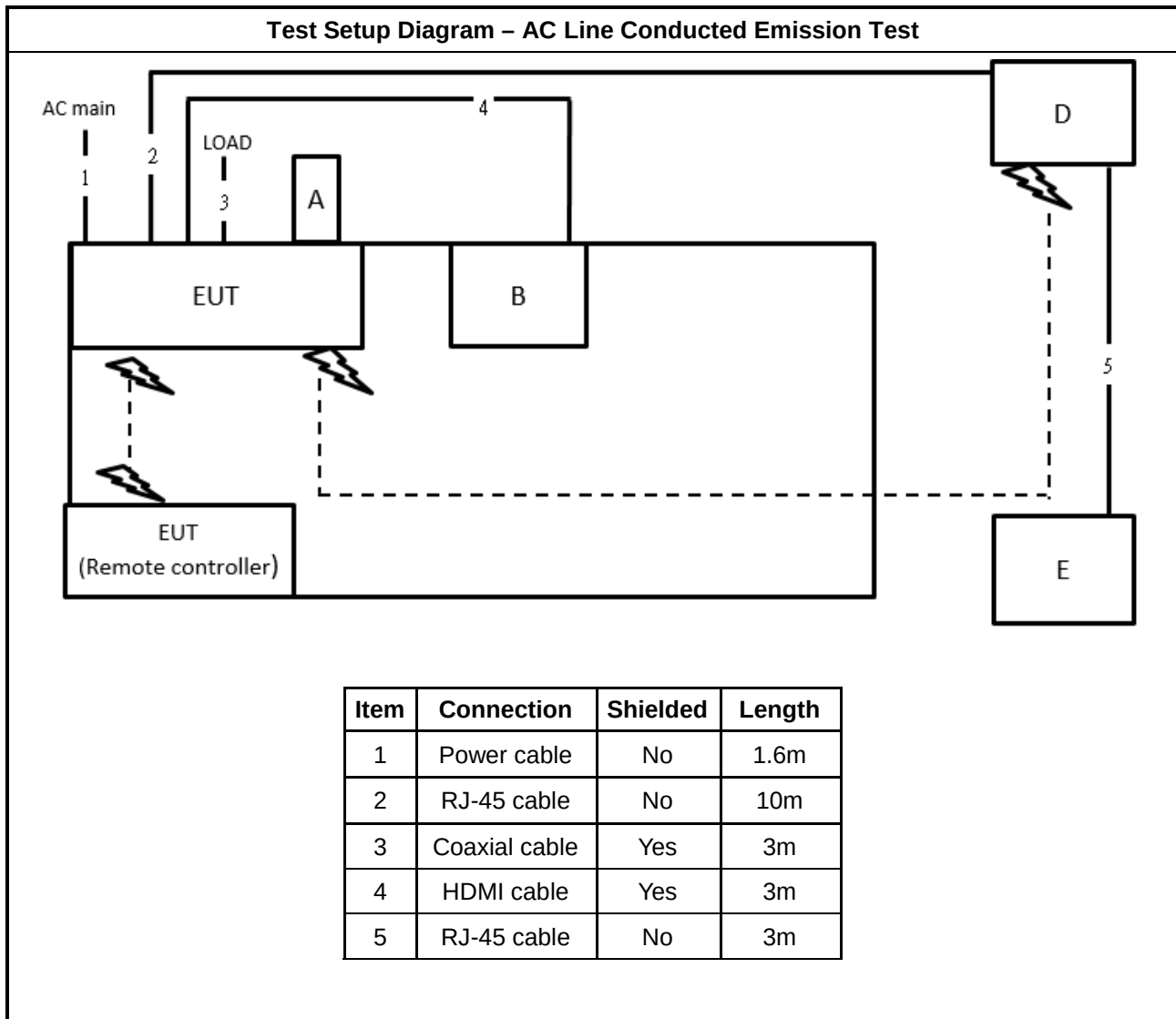
For Radiated (below 1GHz):

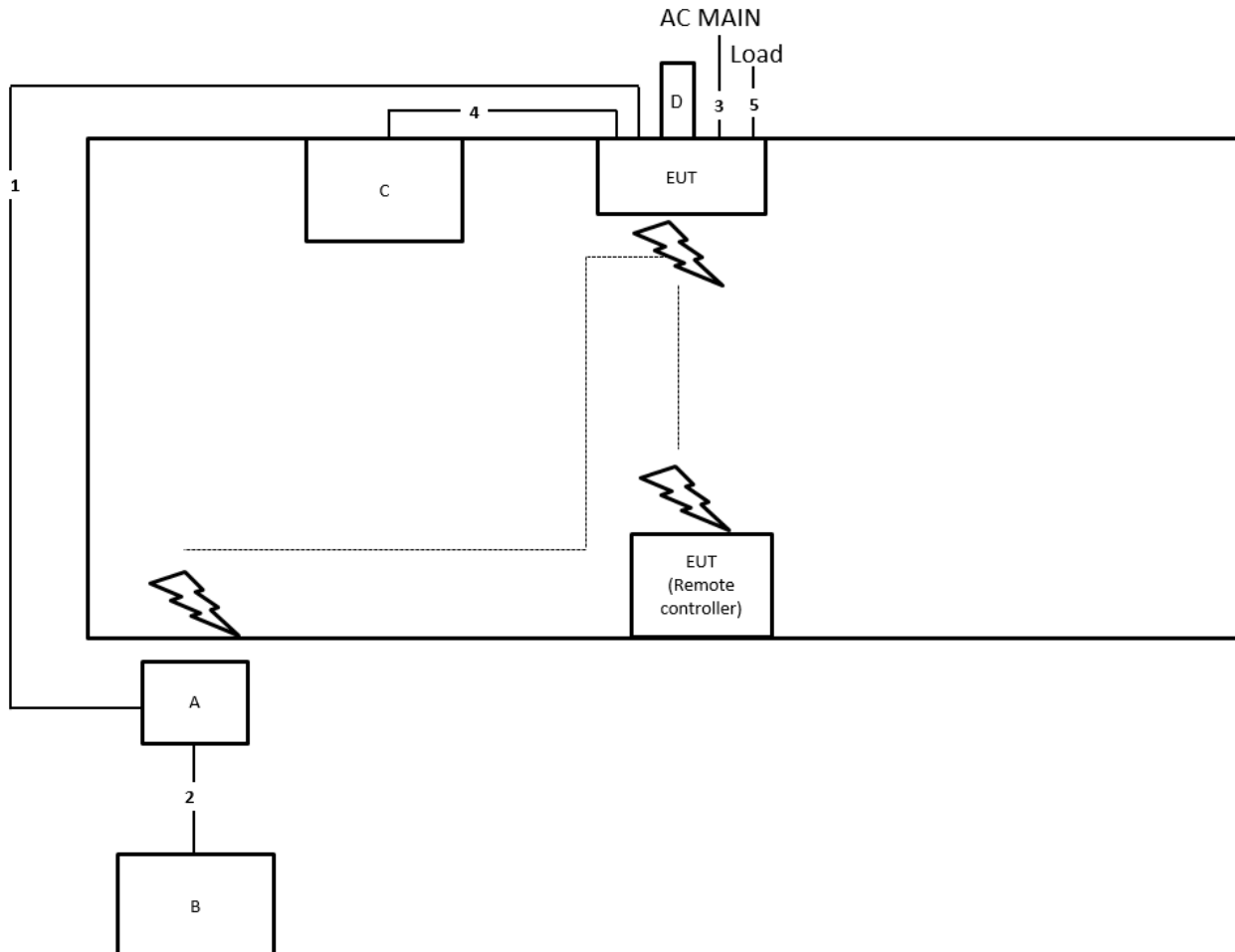
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	WLAN AP	NETGEAR	N600	N/A
B	LAN NB	DELL	E4300	N/A
C	LCD TV	PHILIPS	288E2A/96	N/A
D	Flash disk3.0	Transcend	JetFlash-700	N/A

**For Radiated (above 1GHz) and RF Conducted:**

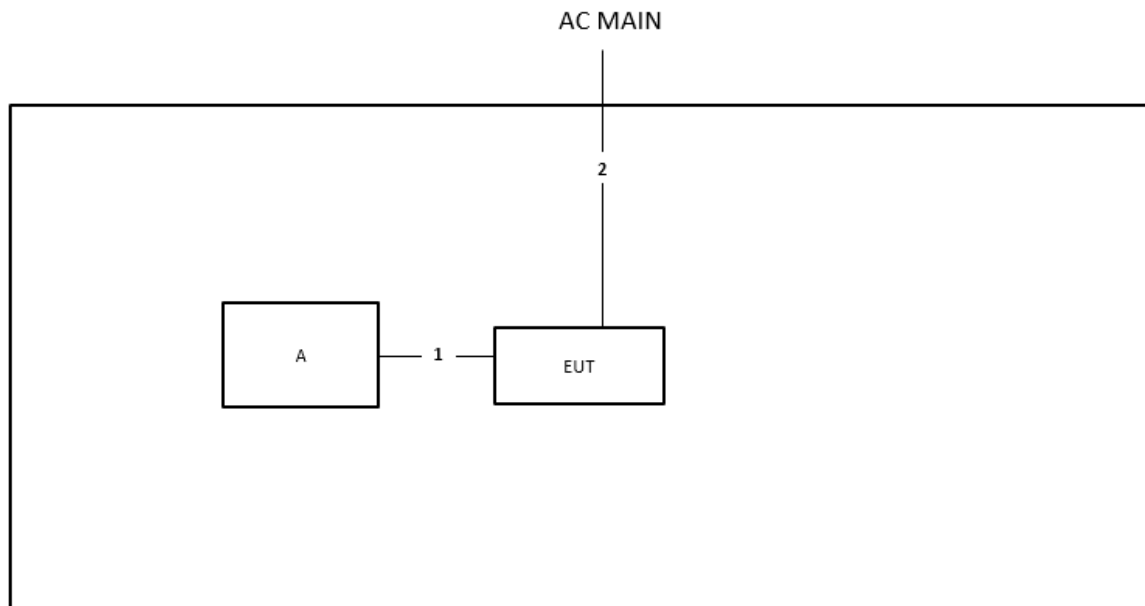
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Power cable	No	1.6m
4	HDMI cable	Yes	3m
5	Coaxial cable	Yes	3m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	1.5m
2	Power cable	No	1.6m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

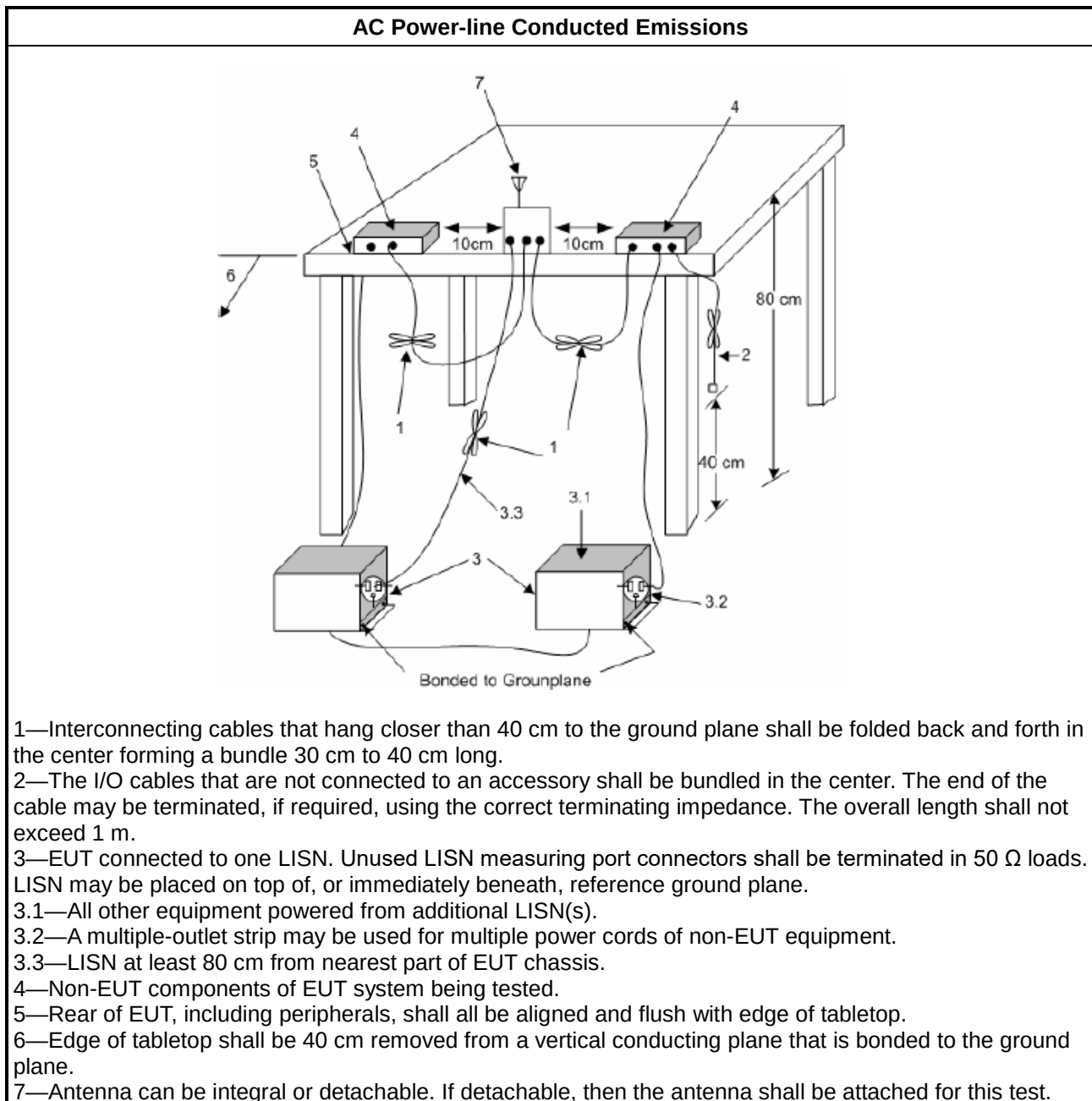
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

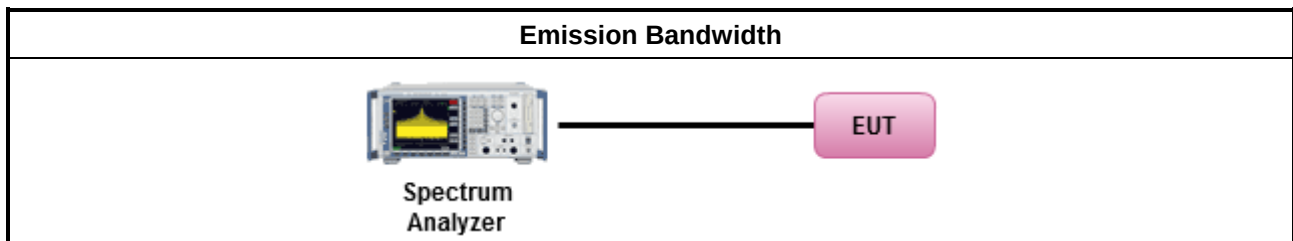
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

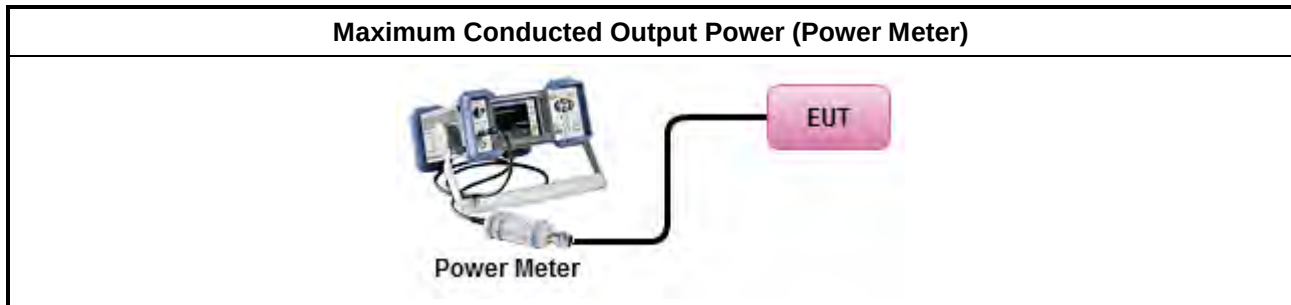
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

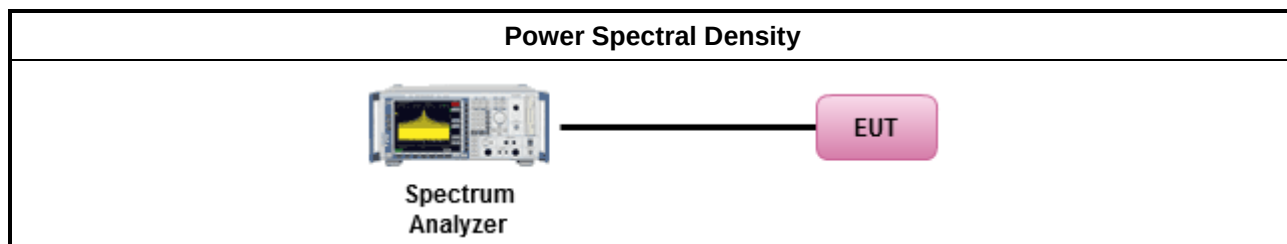
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

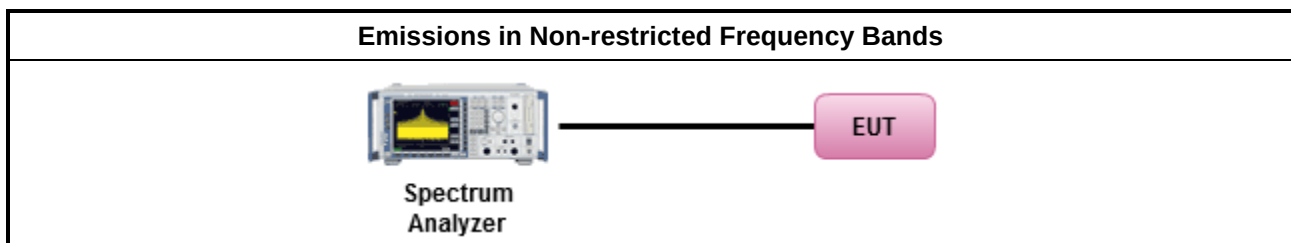
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

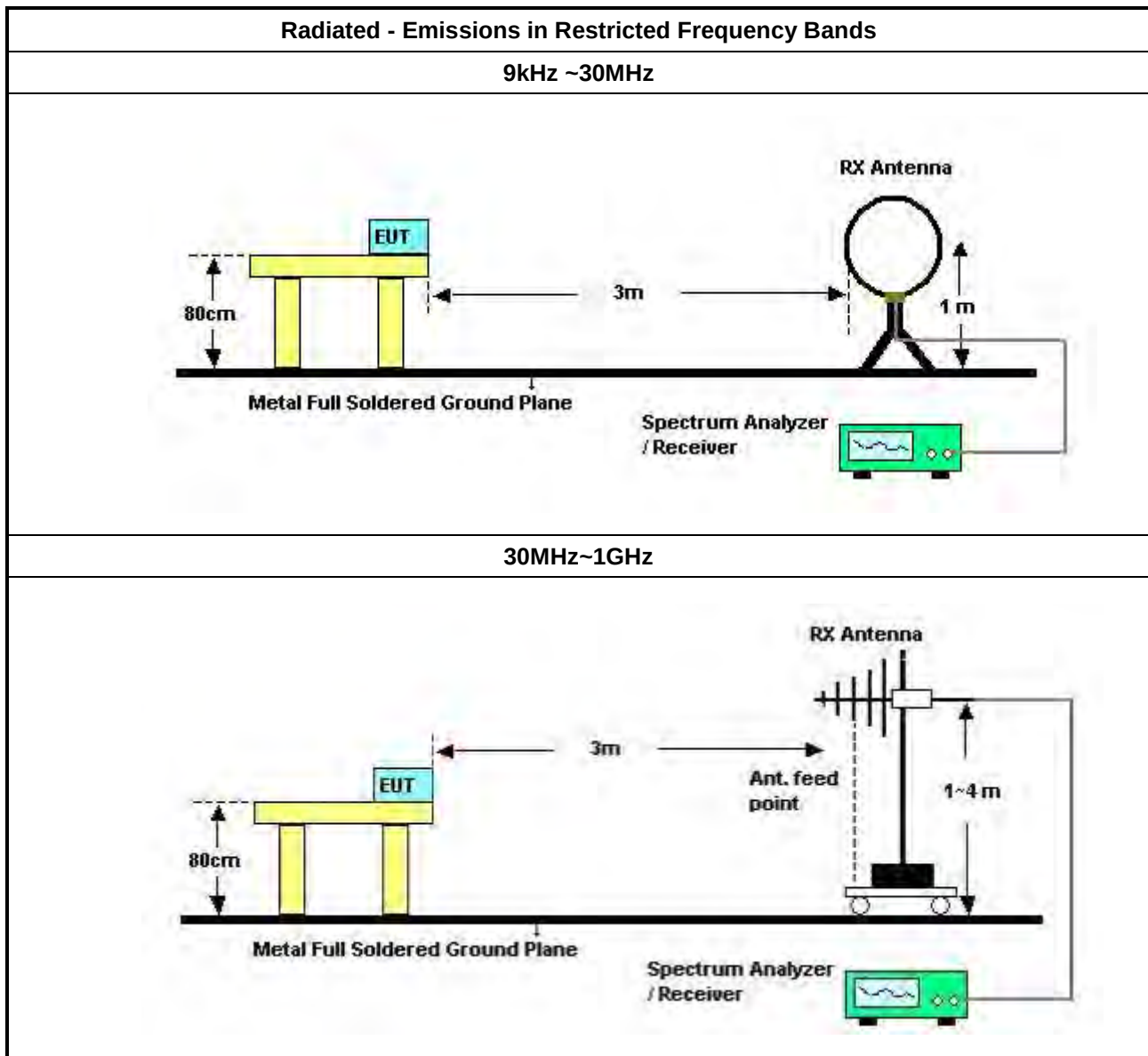
Refer a test equipment and calibration data table in this test report.

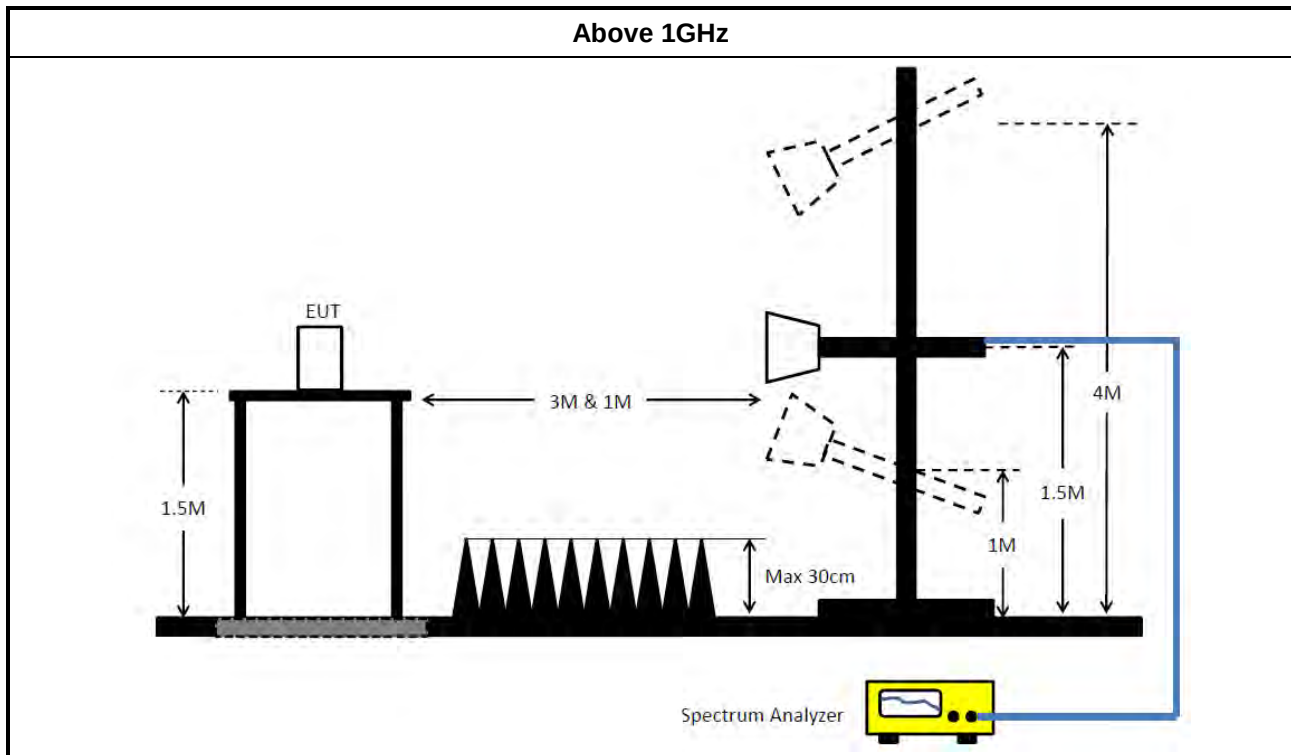


3.6.3 Test Procedures

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

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 20, 2023	Feb. 19, 2024	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 16, 2023	Feb. 15, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 27, 2023	Apr. 26, 2024	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 23, 2023	Mar. 22, 2024	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 17, 2023	Jan. 16, 2024	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 04, 2023	May 03, 2024	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMC	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 19, 2023	Feb. 18, 2024	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Feb. 03, 2023	Feb. 02, 2024	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 28, 2023	Jun. 27, 2024	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 09, 2023	Jan. 08, 2024	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 12, 2023	Jun. 11, 2024	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 14, 2023	Aug. 13, 2024	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 17, 2022	Oct. 16, 2023	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 17, 2022	Oct. 16, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1 GHz –26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

N.C.R. means Non-Calibration required.



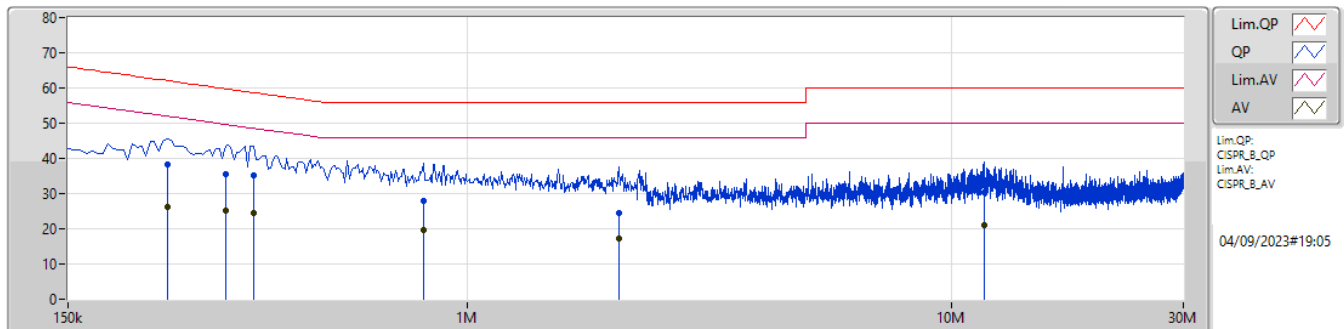
Conducted Emissions at Powerline

Appendix A

Summary

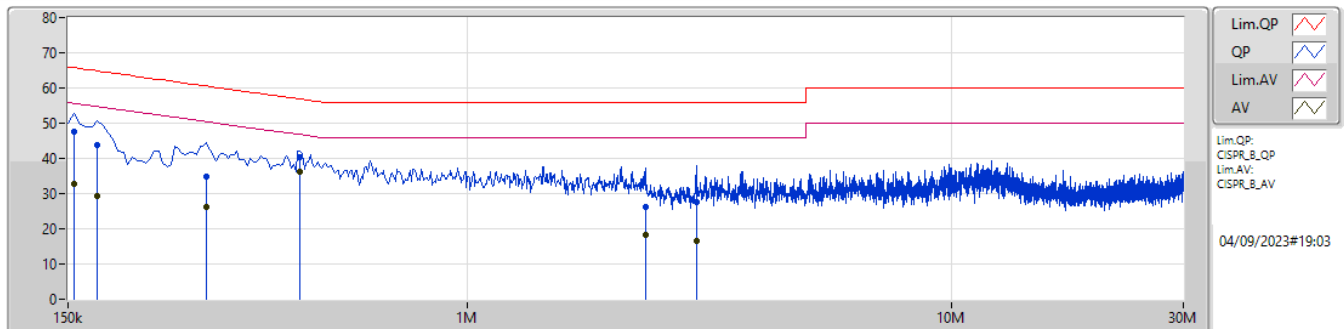
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	AV	451.5k	36.09	46.84	-10.75	Neutral

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	240k	38.38	62.10	-23.72	10.00	Line	-	28.38	0.08	0.05	9.87						
AV	240k	26.05	52.10	-26.05	10.00	Line	-	16.05	0.08	0.05	9.87						
QP	316.5k	35.51	59.80	-24.29	10.03	Line	-	25.48	0.09	0.05	9.89						
AV	316.5k	25.02	49.80	-24.78	10.03	Line	-	14.99	0.09	0.05	9.89						
QP	361.5k	35.07	58.70	-23.63	10.04	Line	"Worst"	25.03	0.09	0.06	9.89						
AV	361.5k	24.60	48.70	-24.10	10.04	Line	-	14.56	0.09	0.06	9.89						
QP	811.5k	27.89	56.00	-28.11	10.05	Line	-	17.84	0.11	0.04	9.90						
AV	811.5k	19.66	46.00	-26.34	10.05	Line	-	9.61	0.11	0.04	9.90						
QP	2.054M	24.65	56.00	-31.35	10.13	Line	-	14.52	0.14	0.09	9.90						
AV	2.054M	17.28	46.00	-28.72	10.13	Line	-	7.15	0.14	0.09	9.90						
QP	11.657M	30.24	60.00	-29.76	10.38	Line	-	19.86	0.26	0.16	9.96						
AV	11.657M	20.96	50.00	-29.04	10.38	Line	-	10.58	0.26	0.16	9.96						

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	154.5k	47.59	65.75	-18.16	9.98	Neutral	-	37.61	0.07	0.04	9.87						
AV	154.5k	32.72	55.75	-23.03	9.98	Neutral	-	22.74	0.07	0.04	9.87						
QP	172.5k	43.63	64.83	-21.20	9.98	Neutral	-	33.65	0.07	0.04	9.87						
AV	172.5k	29.21	54.83	-25.62	9.98	Neutral	-	19.23	0.07	0.04	9.87						
QP	289.5k	34.95	60.53	-25.58	10.00	Neutral	-	24.95	0.07	0.05	9.88						
AV	289.5k	26.18	50.53	-24.35	10.00	Neutral	-	16.18	0.07	0.05	9.88						
QP	451.5k	40.27	56.84	-16.57	10.03	Neutral	-	30.24	0.07	0.06	9.90						
AV	451.5k	36.09	46.84	-10.75	10.03	Neutral	"Worst"	26.06	0.07	0.06	9.90						
QP	2.328M	26.24	56.00	-29.76	10.10	Neutral	-	16.14	0.11	0.09	9.90						
AV	2.328M	18.16	46.00	-27.84	10.10	Neutral	-	8.06	0.11	0.09	9.90						
QP	2.967M	27.63	56.00	-28.37	10.13	Neutral	-	17.50	0.12	0.10	9.91						
AV	2.967M	16.49	46.00	-29.51	10.13	Neutral	-	6.36	0.12	0.10	9.91						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	10.075M	15.442M	15M4G1D	10.05M	15.164M
802.11g_Nss1,(6Mbps)_1TX	16.325M	18.026M	18M0D1D	16.3M	16.822M
802.11n HT20_Nss1,(MCS0)_1TX	17.525M	18.587M	18M6D1D	17.025M	17.782M
802.11n HT40_Nss1,(MCS0)_1TX	36.3M	36.656M	36M7D1D	35.65M	36.542M

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

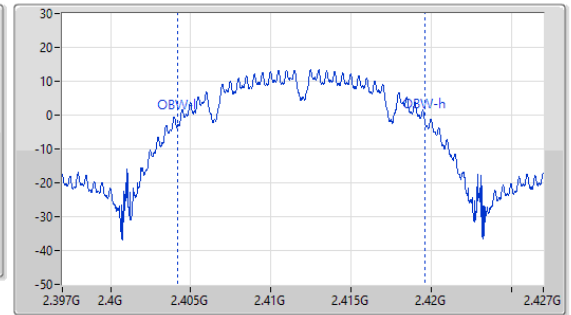
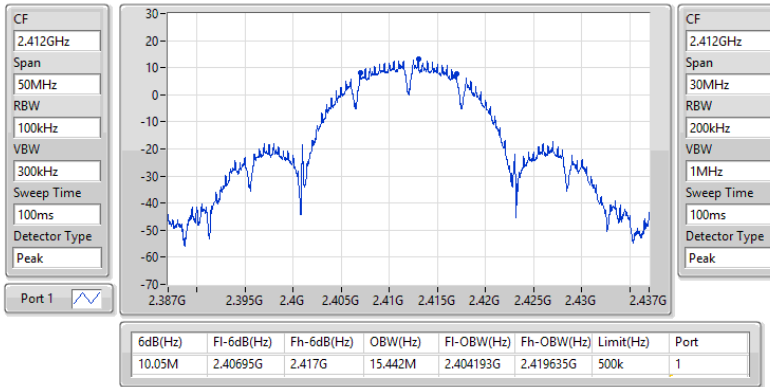
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	10.05M	15.442M
2437MHz	Pass	500k	10.05M	15.298M
2462MHz	Pass	500k	10.075M	15.164M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.3M	16.863M
2437MHz	Pass	500k	16.3M	18.026M
2462MHz	Pass	500k	16.325M	16.822M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.525M	17.782M
2437MHz	Pass	500k	17.275M	18.587M
2462MHz	Pass	500k	17.025M	17.823M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	36.3M	36.542M
2437MHz	Pass	500k	35.8M	36.629M
2452MHz	Pass	500k	35.65M	36.656M

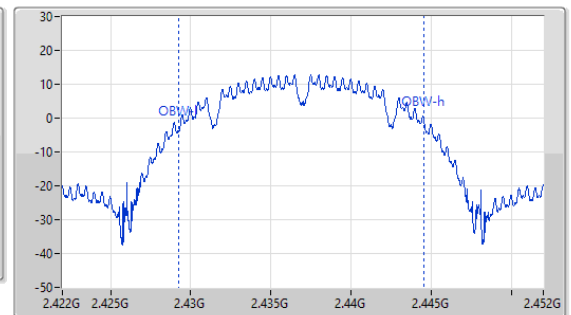
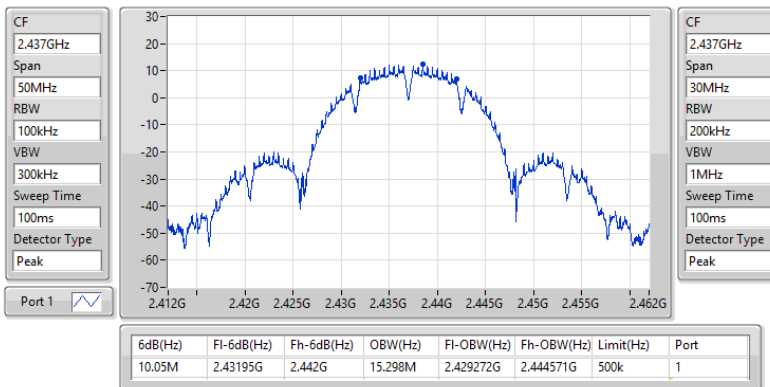
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

04/09/2023

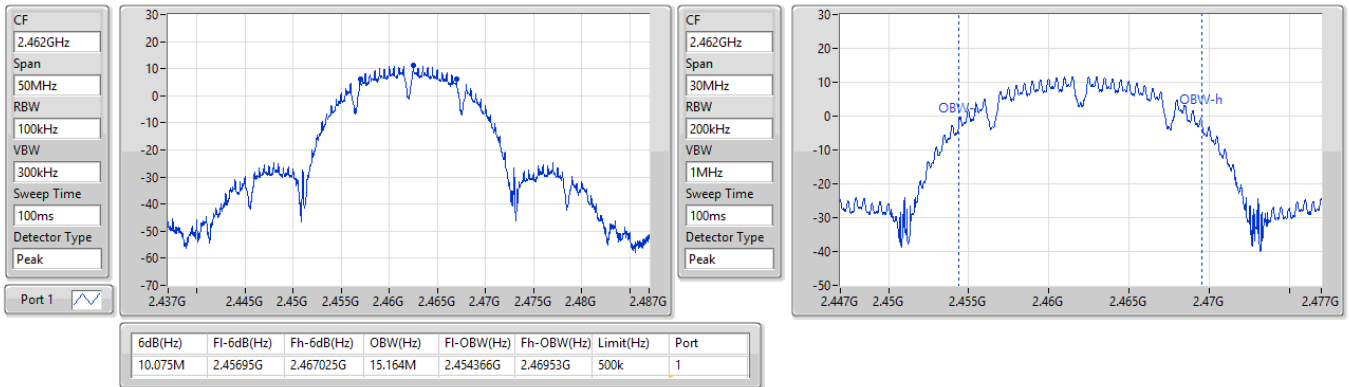

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

04/09/2023

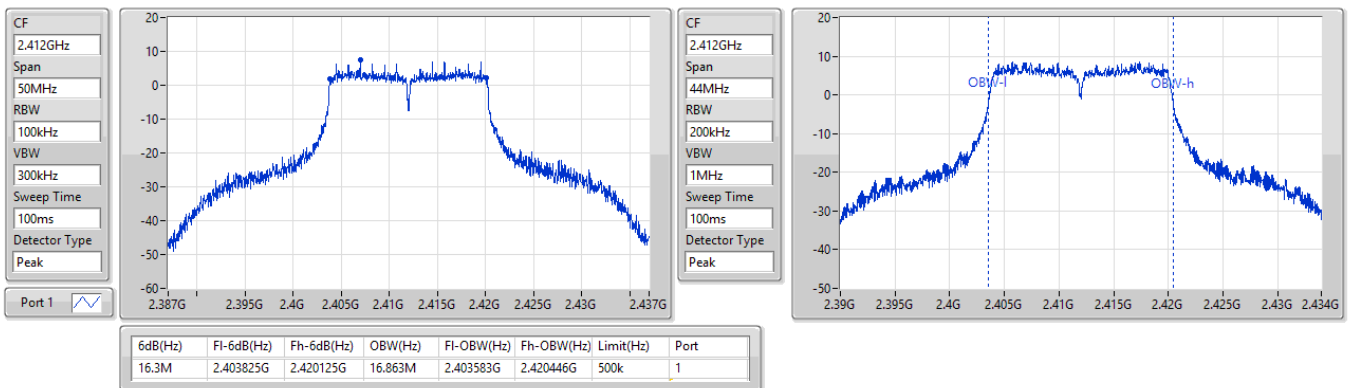


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2462MHz

04/09/2023

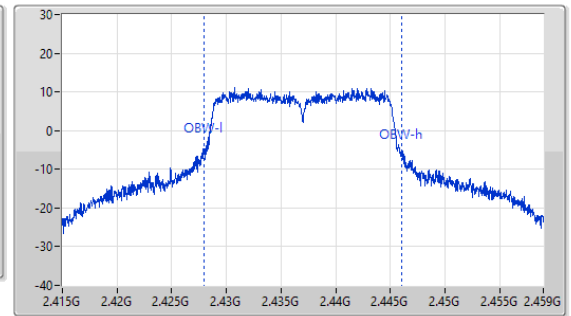
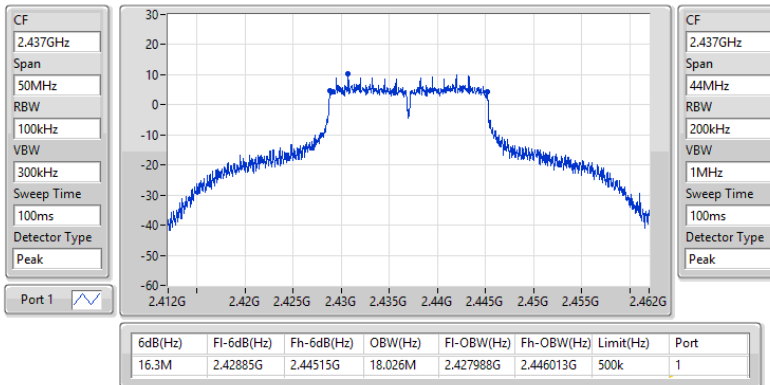

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2412MHz

04/09/2023

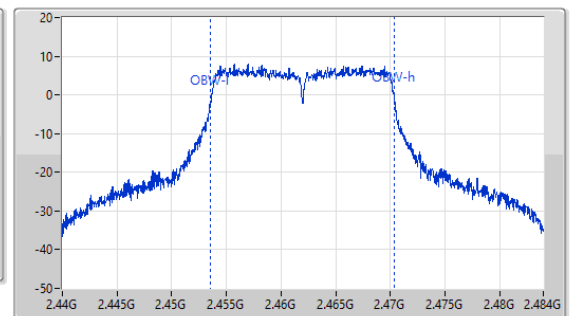
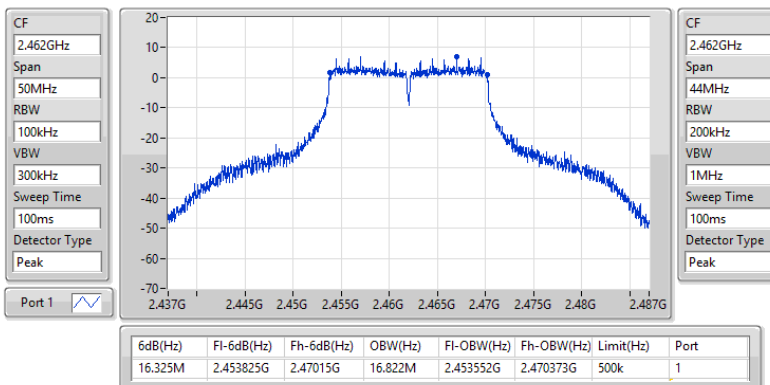


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2437MHz

04/09/2023

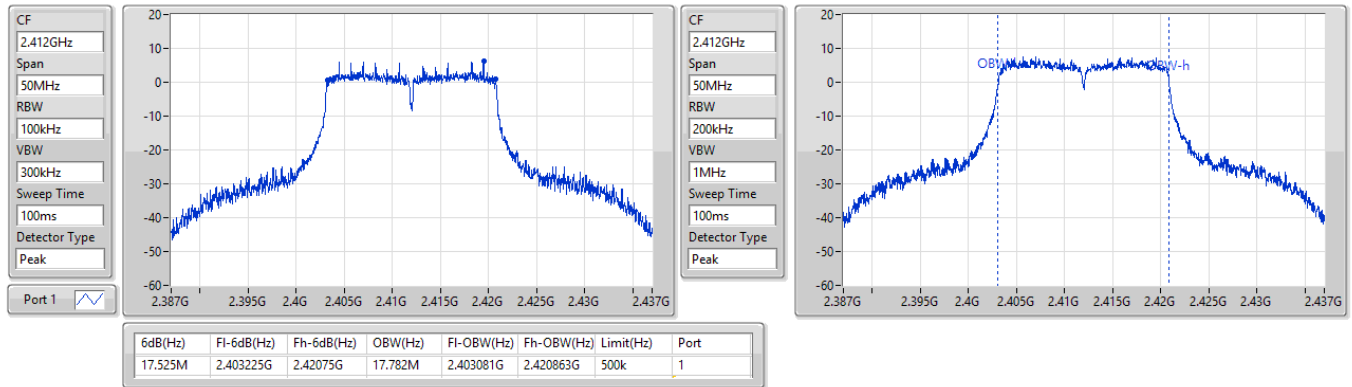

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2462MHz

04/09/2023

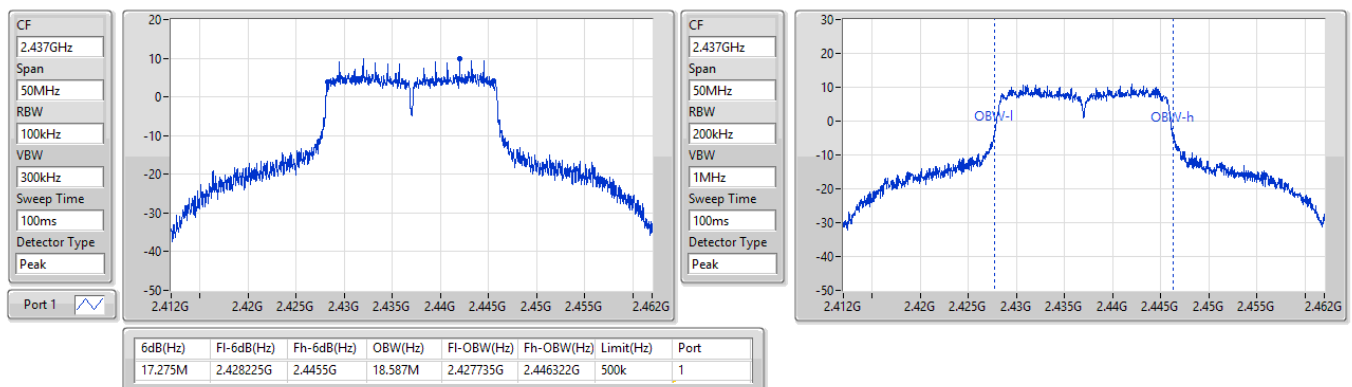


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX
EBW
2412MHz

04/09/2023

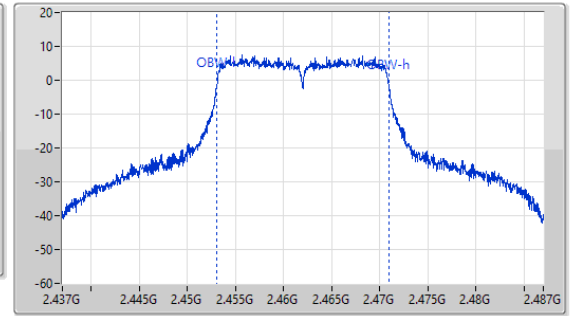
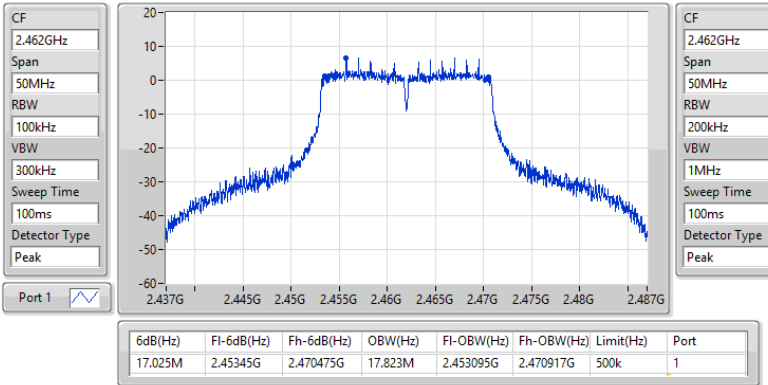

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX
EBW
2437MHz

04/09/2023

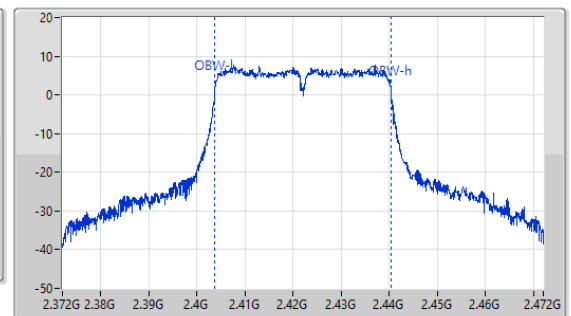
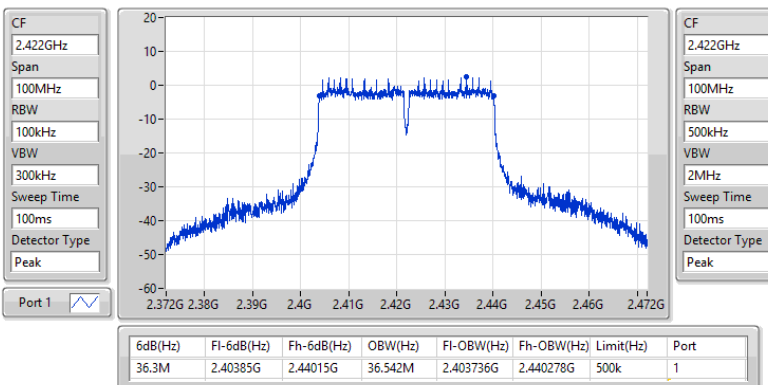


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX
EBW
2462MHz

04/09/2023

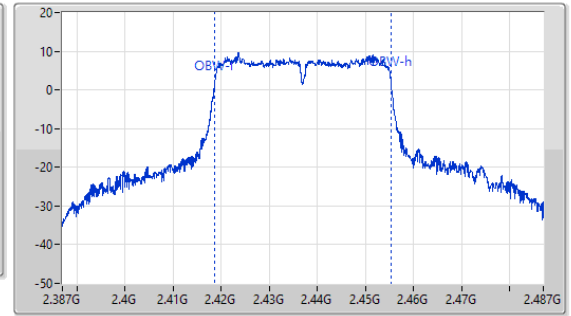
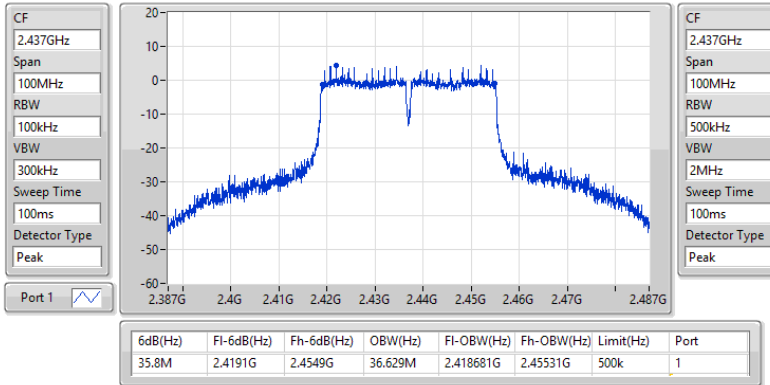

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX
EBW
2422MHz

04/09/2023

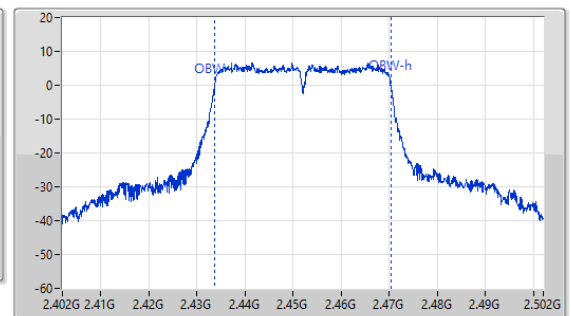
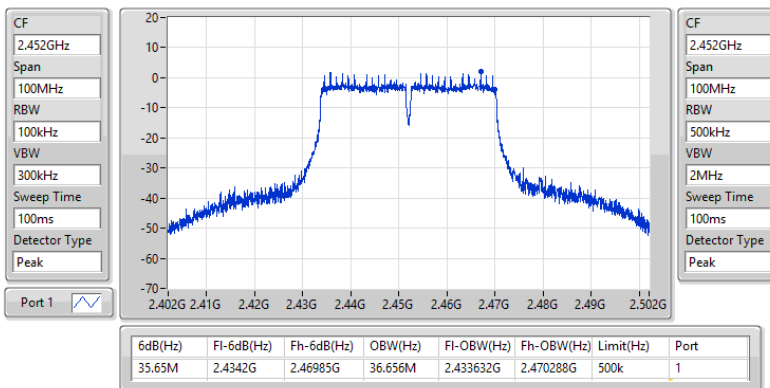


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX
EBW
2437MHz

04/09/2023


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX
EBW
2452MHz

04/09/2023





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	22.34	0.17140
802.11g_Nss1,(6Mbps)_1TX	20.54	0.11324
802.11n HT20_Nss1,(MCS0)_1TX	20.40	0.10965
802.11n HT40_Nss1,(MCS0)_1TX	17.92	0.06194

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.42	22.34	22.34	30.00
2437MHz	Pass	2.42	21.76	21.76	30.00
2462MHz	Pass	2.42	20.61	20.61	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.42	18.21	18.21	30.00
2417MHz	Pass	2.42	20.54	20.54	30.00
2437MHz	Pass	2.42	20.41	20.41	30.00
2457MHz	Pass	2.42	20.43	20.43	30.00
2462MHz	Pass	2.42	17.80	17.80	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.42	17.30	17.30	30.00
2417MHz	Pass	2.42	20.40	20.40	30.00
2437MHz	Pass	2.42	20.31	20.31	30.00
2457MHz	Pass	2.42	20.34	20.34	30.00
2462MHz	Pass	2.42	17.32	17.32	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.42	16.52	16.52	30.00
2427MHz	Pass	2.42	16.61	16.61	30.00
2437MHz	Pass	2.42	17.92	17.92	30.00
2447MHz	Pass	2.42	16.28	16.28	30.00
2452MHz	Pass	2.42	15.65	15.65	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-1.53
802.11g_Nss1,(6Mbps)_1TX	-4.86
802.11n HT20_Nss1,(MCS0)_1TX	-5.88
802.11n HT40_Nss1,(MCS0)_1TX	-10.69

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.42	-1.53	-1.53	8.00
2437MHz	Pass	2.42	-1.93	-1.93	8.00
2462MHz	Pass	2.42	-3.41	-3.41	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.42	-8.29	-8.29	8.00
2437MHz	Pass	2.42	-4.86	-4.86	8.00
2462MHz	Pass	2.42	-8.36	-8.36	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.42	-8.24	-8.24	8.00
2437MHz	Pass	2.42	-5.88	-5.88	8.00
2462MHz	Pass	2.42	-9.34	-9.34	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.42	-12.13	-12.13	8.00
2437MHz	Pass	2.42	-10.69	-10.69	8.00
2452MHz	Pass	2.42	-13.17	-13.17	8.00

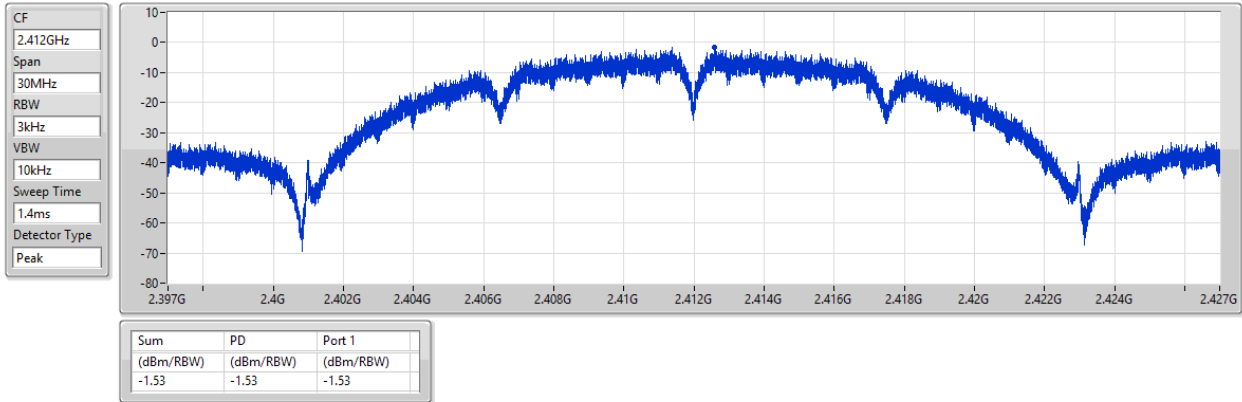
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

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

PSD

2412MHz

04/09/2023

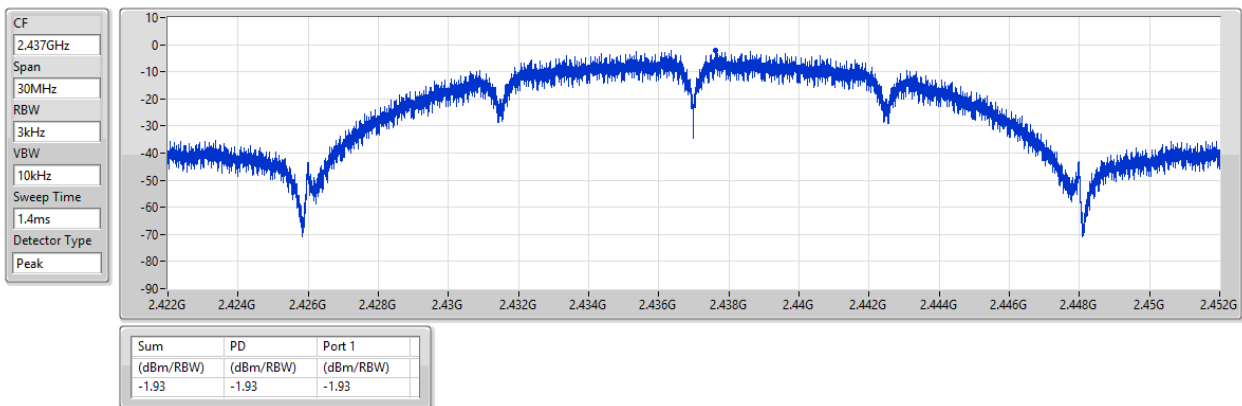


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

04/09/2023

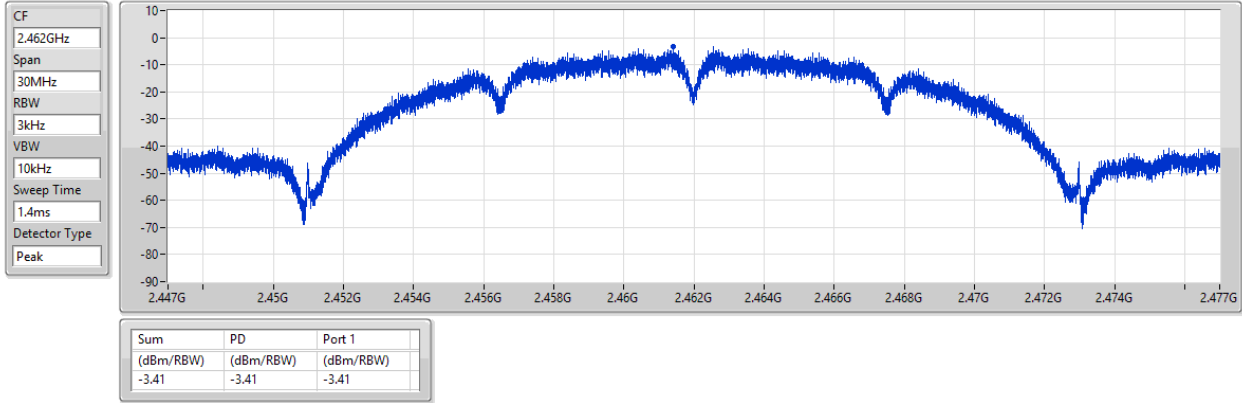


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

04/09/2023

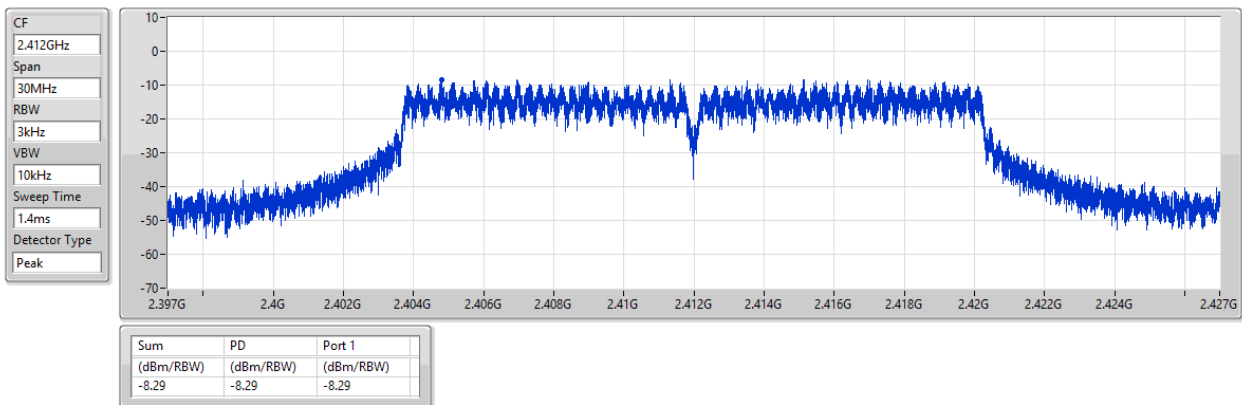


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

04/09/2023

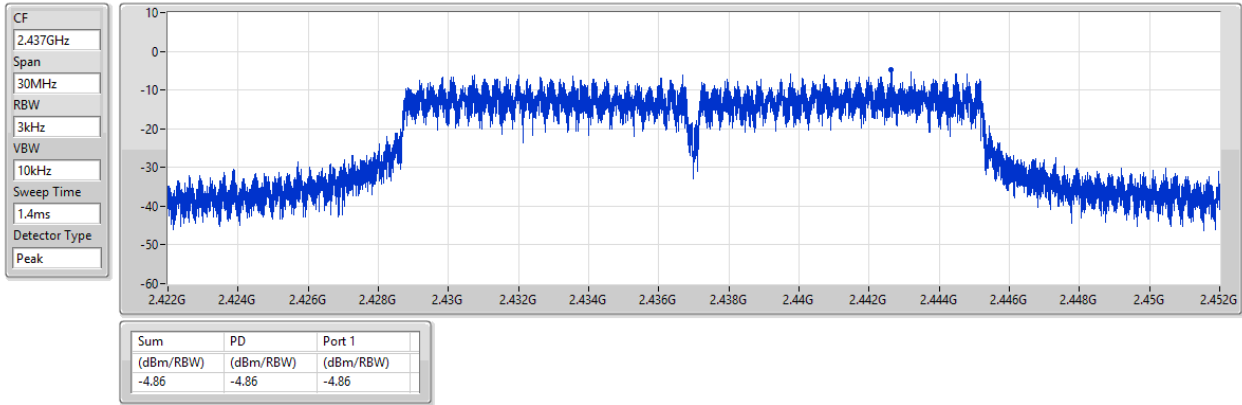


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

04/09/2023

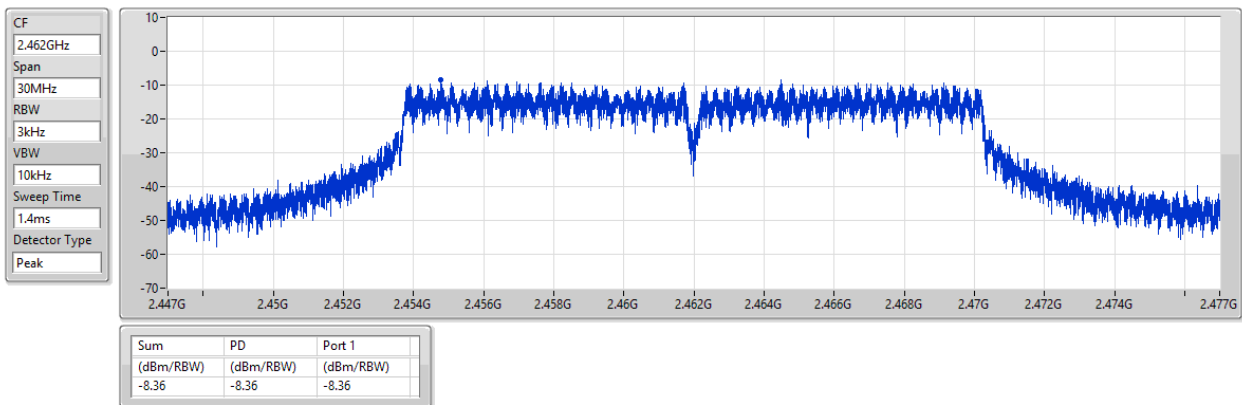


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

04/09/2023

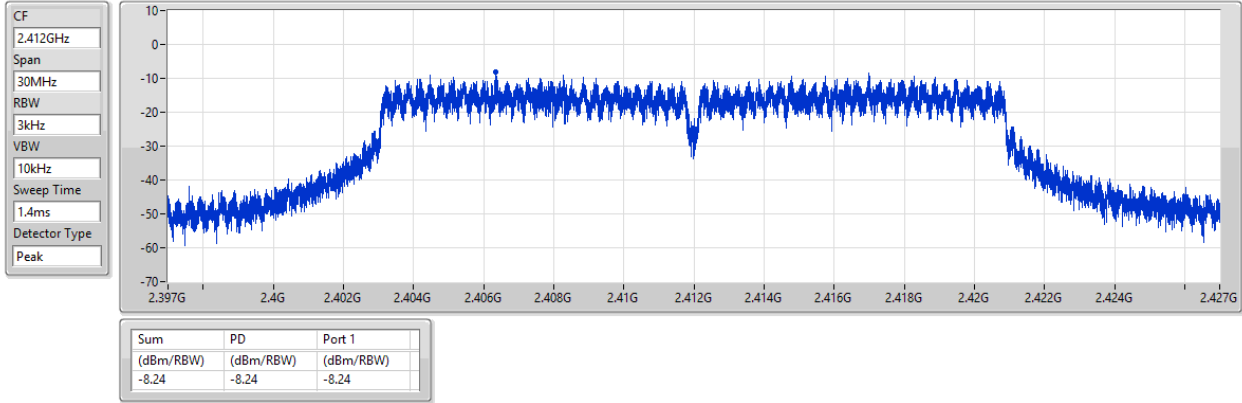


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

PSD

2412MHz

04/09/2023

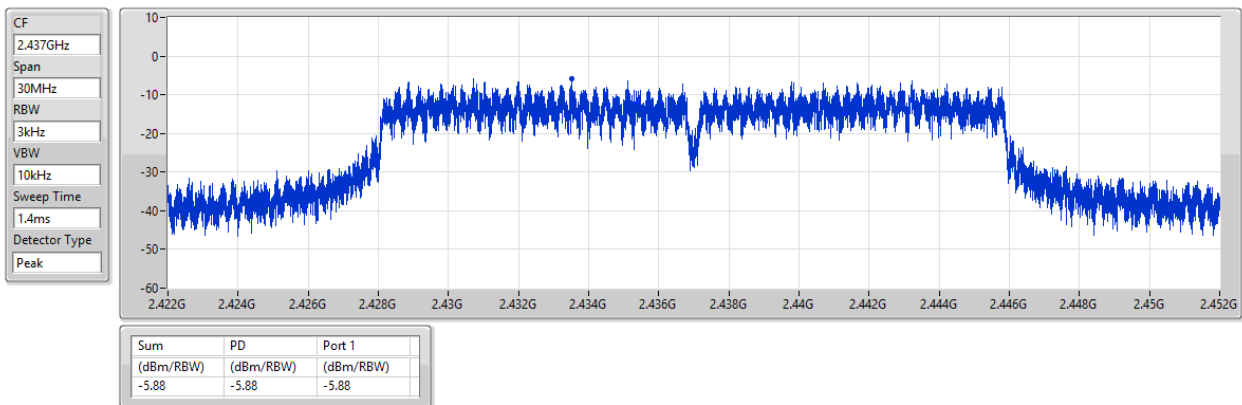


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

04/09/2023

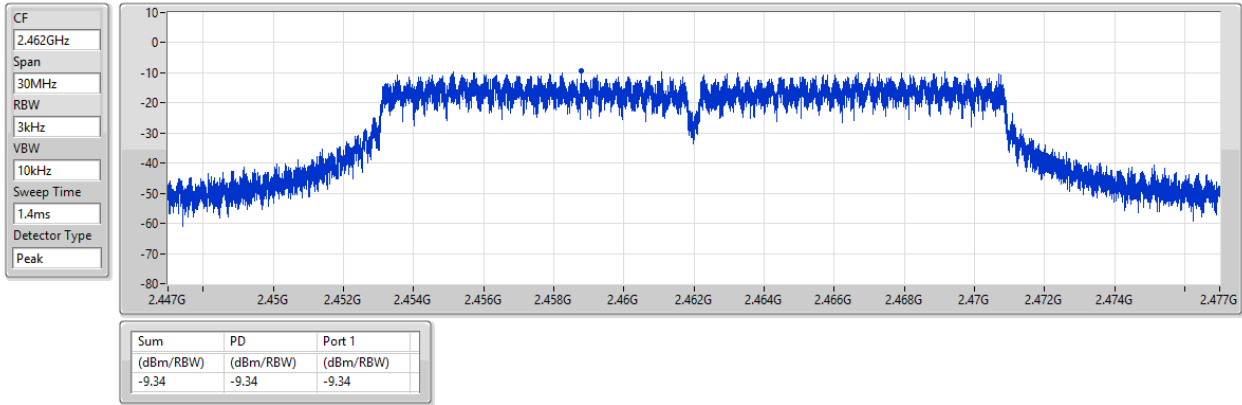


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

PSD

2462MHz

04/09/2023

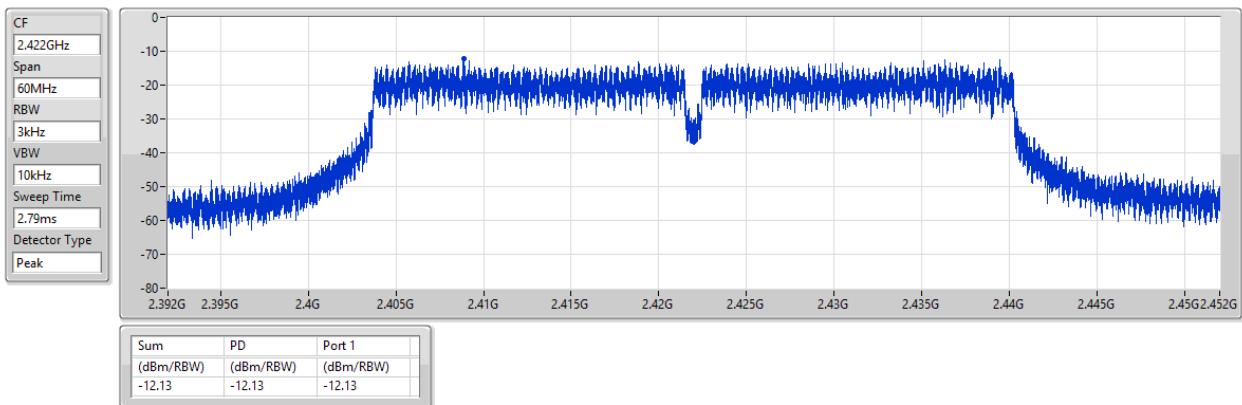


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

PSD

2422MHz

04/09/2023

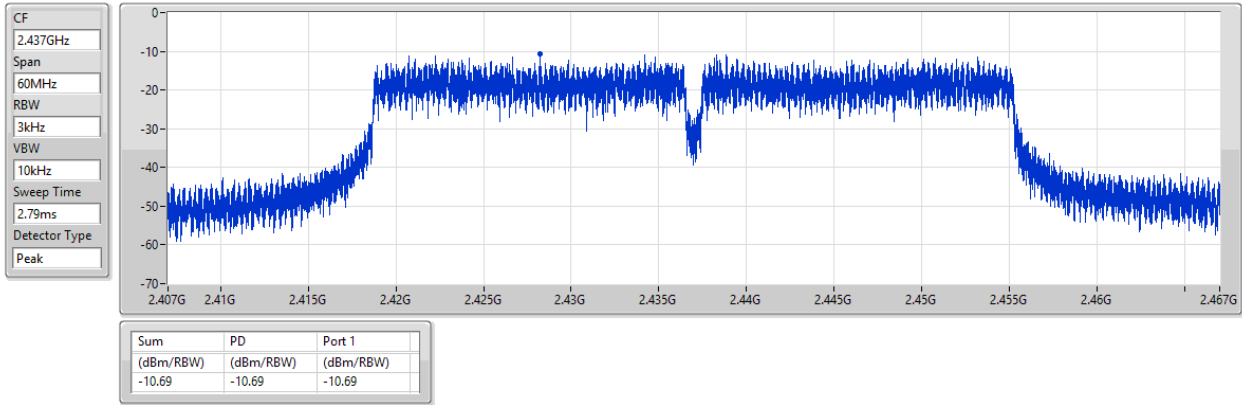


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

PSD

2437MHz

04/09/2023

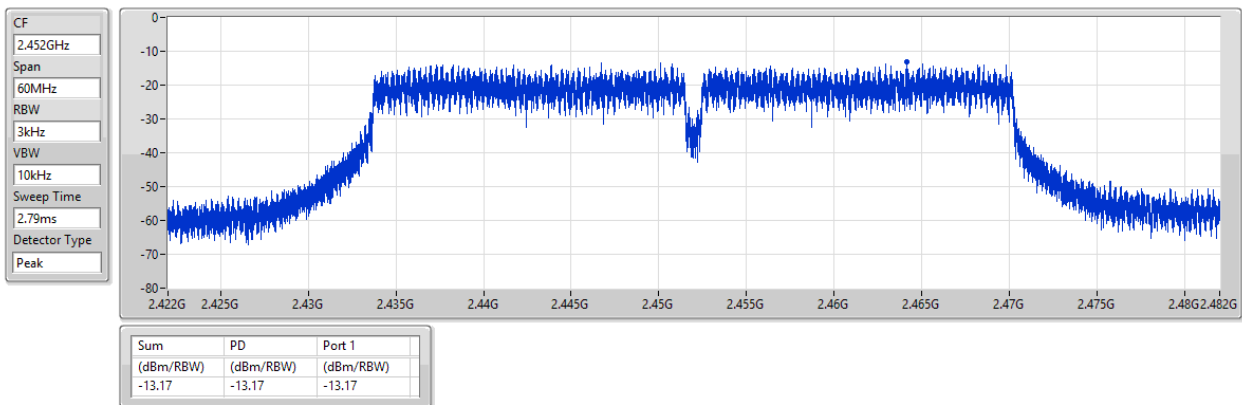


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

PSD

2452MHz

04/09/2023





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.41236G	13.06	-16.94	1.73906G	-54.00	2.398G	-17.99	2.4G	-22.86	2.50046G	-51.10	21.58919G	-47.79	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43073G	9.94	-20.06	2.16312G	-53.49	2.39888G	-21.26	2.4G	-20.89	2.51206G	-50.33	21.51614G	-48.37	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.44192G	9.94	-20.06	33.5M	-52.74	2.39856G	-24.89	2.4G	-26.70	2.51486G	-51.13	21.52176G	-47.35	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.42071G	4.20	-25.80	2.17802G	-54.08	2.39984G	-28.34	2.4G	-31.54	2.50078G	-46.72	21.52234G	-47.37	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1.(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41236G	13.06	-16.94	1.73906G	-54.00	2.398G	-17.99	2.4G	-22.86	2.50046G	-51.10	21.58919G	-47.79	1
2437MHz	Pass	2.41236G	13.06	-16.94	2.17943G	-53.77	2.4G	-49.86	2.4G	-51.71	2.50646G	-50.67	21.52738G	-47.46	1
2462MHz	Pass	2.41236G	13.06	-16.94	2.30991G	-52.62	2.39656G	-51.66	2.4G	-54.39	2.50294G	-50.53	21.63695G	-46.63	1
802.11g_Nss1.(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43073G	9.94	-20.06	2.16312G	-53.49	2.39888G	-21.26	2.4G	-20.89	2.51206G	-50.33	21.51614G	-48.37	1
2437MHz	Pass	2.43073G	9.94	-20.06	2.18991G	-53.24	2.39976G	-43.88	2.4G	-48.03	2.5179G	-50.78	21.96567G	-47.26	1
2462MHz	Pass	2.43073G	9.94	-20.06	2.18292G	-52.74	2.39184G	-51.23	2.4G	-54.66	2.50014G	-50.33	21.44028G	-47.44	1
802.11n HT20_Nss1.(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	9.94	-20.06	33.5M	-52.74	2.39856G	-24.89	2.4G	-26.70	2.51486G	-51.13	21.52176G	-47.35	1
2437MHz	Pass	2.44192G	9.94	-20.06	39.32M	-54.23	2.39992G	-45.76	2.4G	-45.95	2.50014G	-49.62	21.5049G	-46.51	1
2462MHz	Pass	2.44192G	9.94	-20.06	2.18176G	-53.60	2.39416G	-51.48	2.4G	-54.82	2.51646G	-50.85	21.59481G	-48.03	1
802.11n HT40_Nss1.(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42071G	4.20	-25.80	2.15856G	-53.82	2.39968G	-28.44	2.4G	-28.87	2.54062G	-53.27	21.54758G	-47.11	1
2437MHz	Pass	2.42071G	4.20	-25.80	2.17802G	-54.08	2.39984G	-28.34	2.4G	-31.54	2.50078G	-46.72	21.52234G	-47.37	1
2452MHz	Pass	2.42071G	4.20	-25.80	1.74292G	-53.27	2.39392G	-49.71	2.4G	-49.94	2.5003G	-44.29	21.57282G	-46.97	1

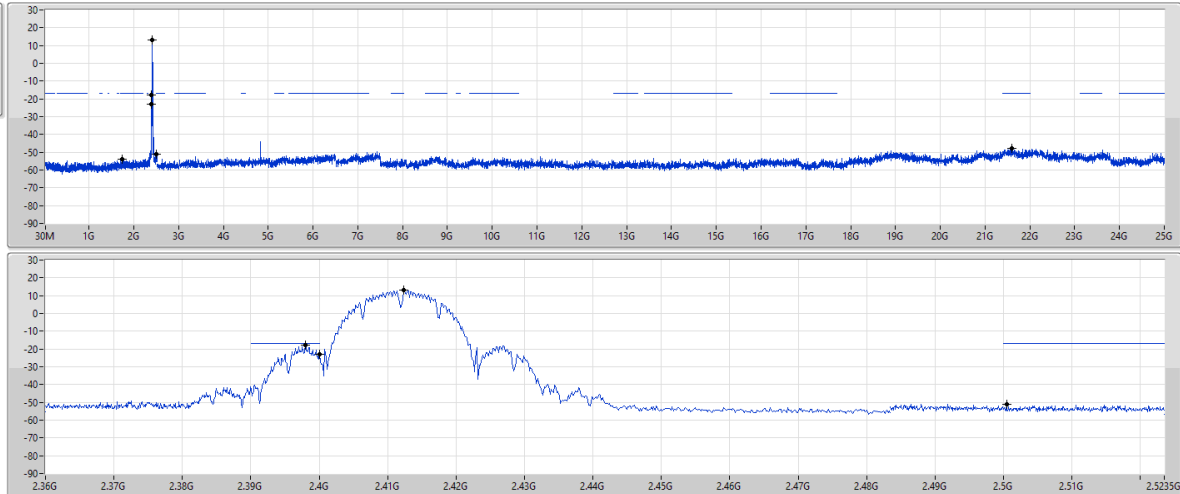
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2412MHz

04/09/2023

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



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
2.41236G	13.06	-16.94	1.73906G	-54.00	2.398G	-17.99	2.4G	-22.86	2.50046G	-51.10	21.58919G	-47.79	1

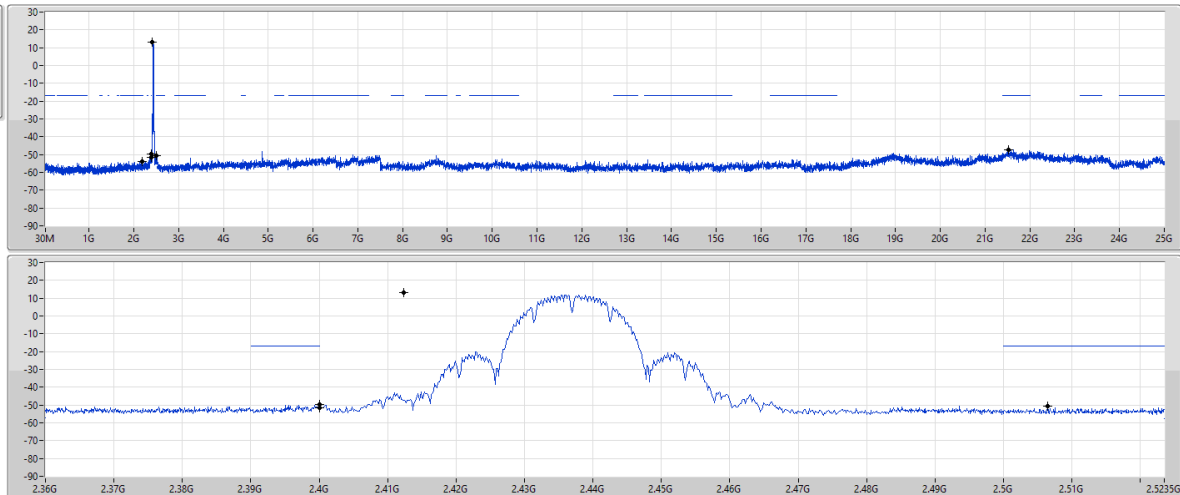
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2437MHz

04/09/2023

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



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
2.41236G	13.06	-16.94	2.17943G	-53.77	2.4G	-49.86	2.4G	-51.71	2.50646G	-50.67	21.52738G	-47.46	1

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

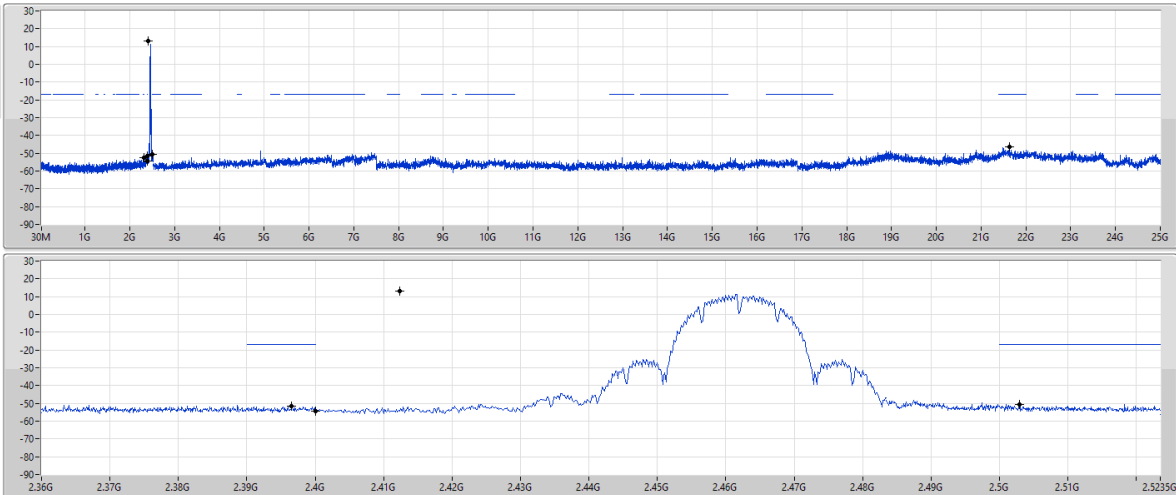
CSEndB

2462MHz

04/09/2023

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

Port 1



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
2.41236G	13.06	-16.94	2.30991G	-52.62	2.39656G	-51.66	2.4G	-54.39	2.50294G	-50.53	21.63695G	-46.63	1

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

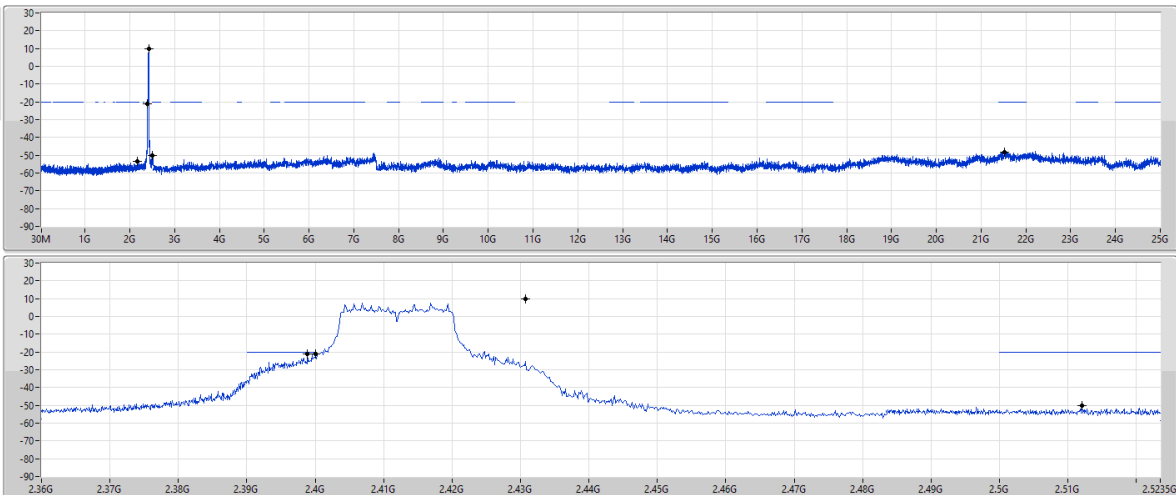
CSEndB

2412MHz

04/09/2023

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

Port 1



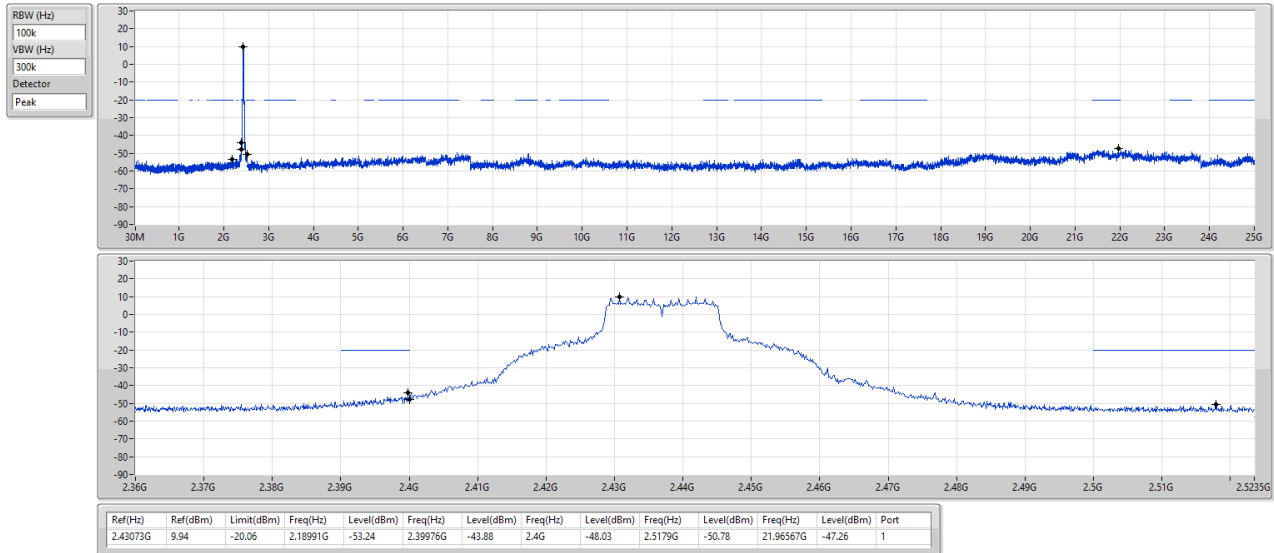
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43073G	9.94	-20.06	2.16312G	-53.49	2.39888G	-21.26	2.4G	-20.89	2.51206G	-50.33	21.51614G	-48.37	1

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

CSEndB

2437MHz

04/09/2023

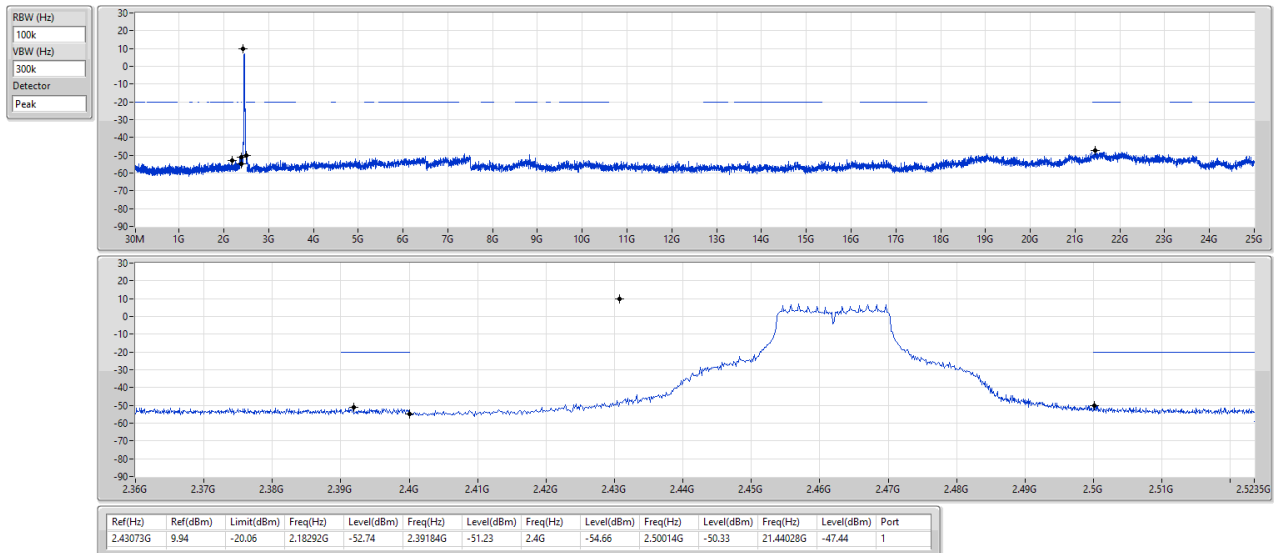


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

2462MHz

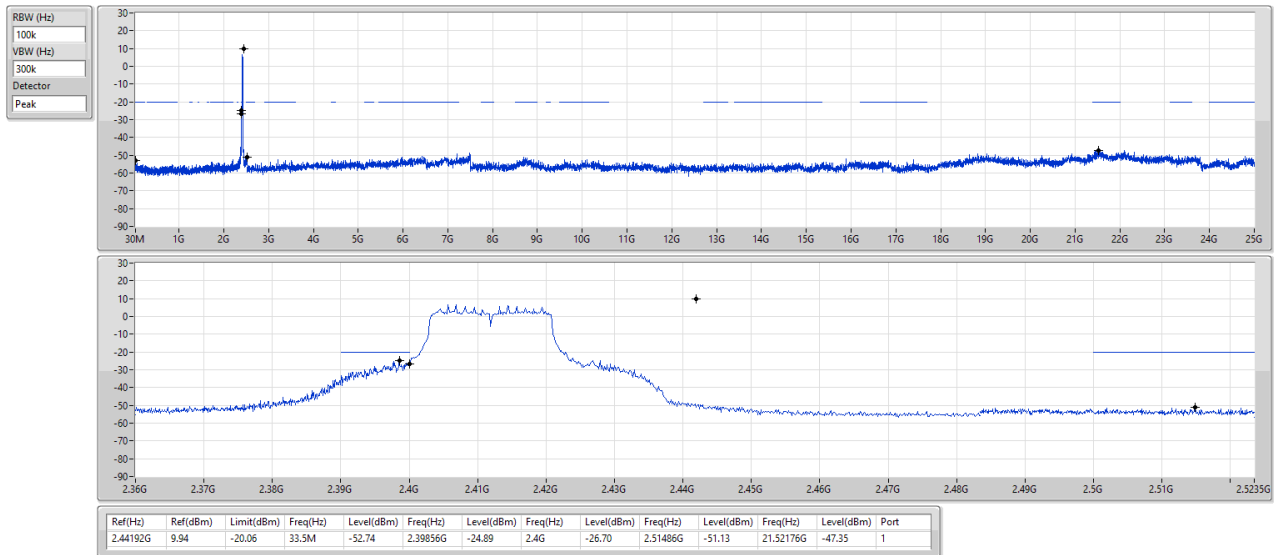
04/09/2023



2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

CSEndB

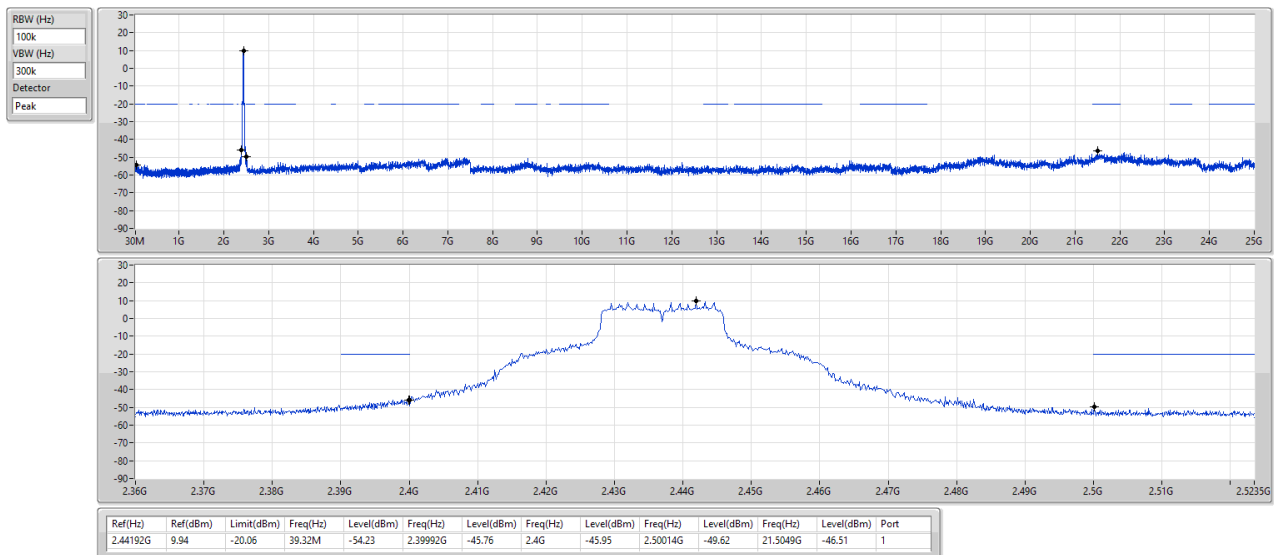
2412MHz



2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

CSEndB

2437MHz



2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

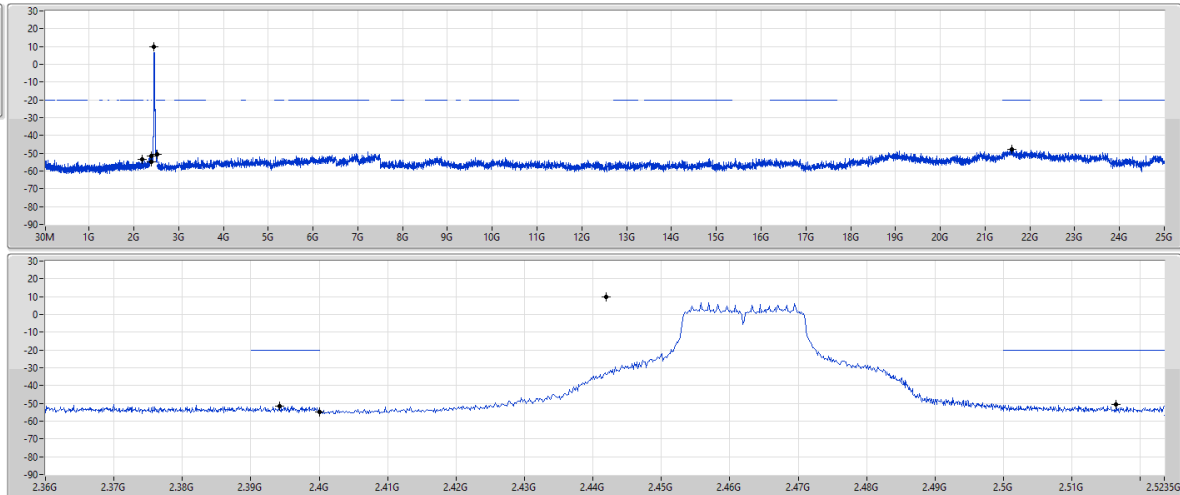
CSEndB

2462MHz

04/09/2023

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

Port 1



2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

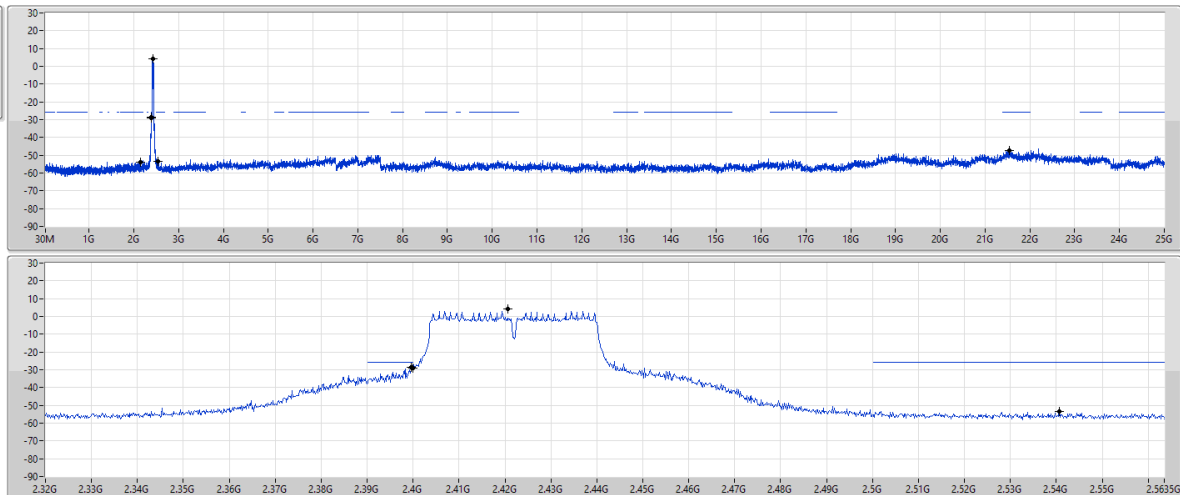
CSEndB

2422MHz

04/09/2023

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

Port 1

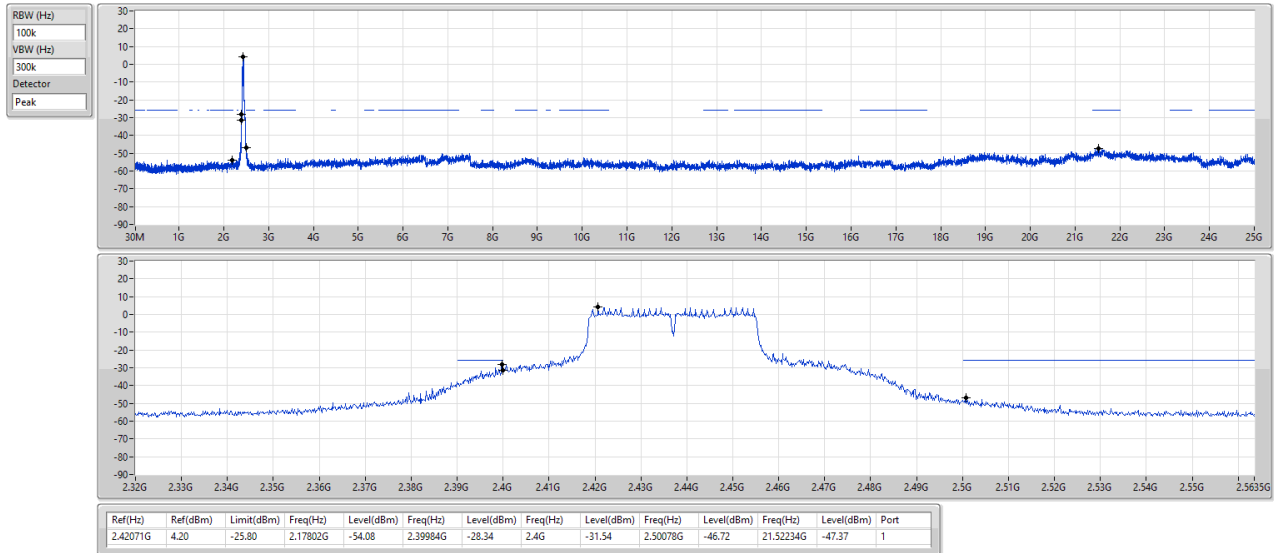


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

CSEndB

2437MHz

04/09/2023

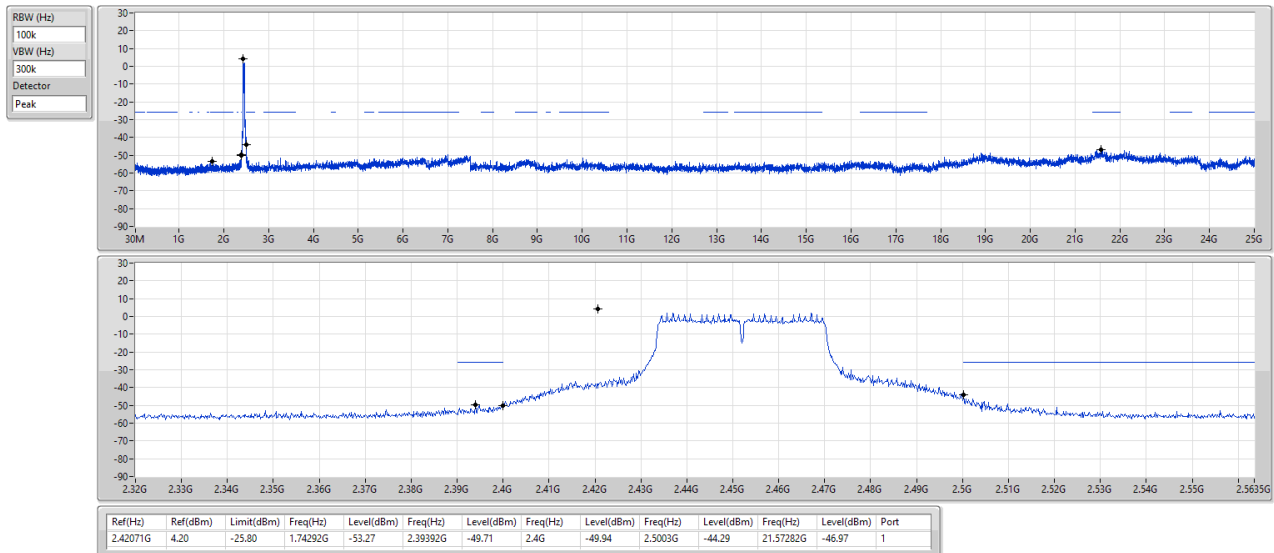


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

CSEndB

2452MHz

04/09/2023





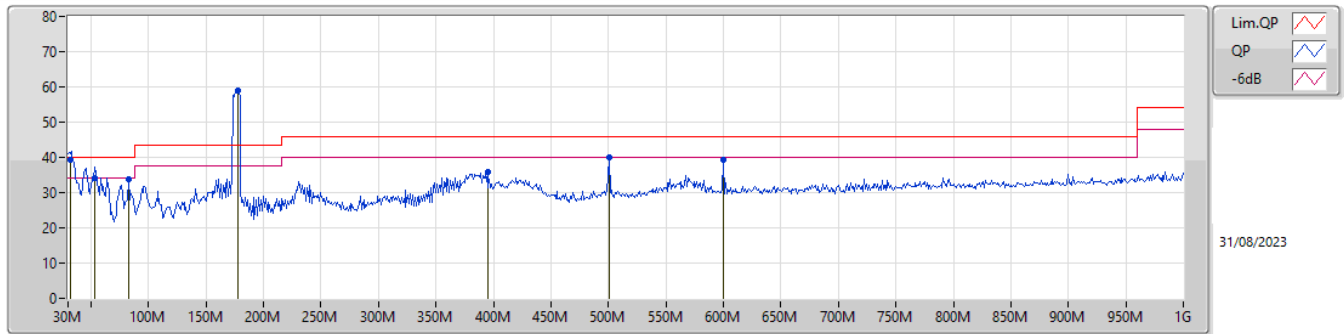
Radiated Emissions below 1GHz

Appendix F.1

Summary

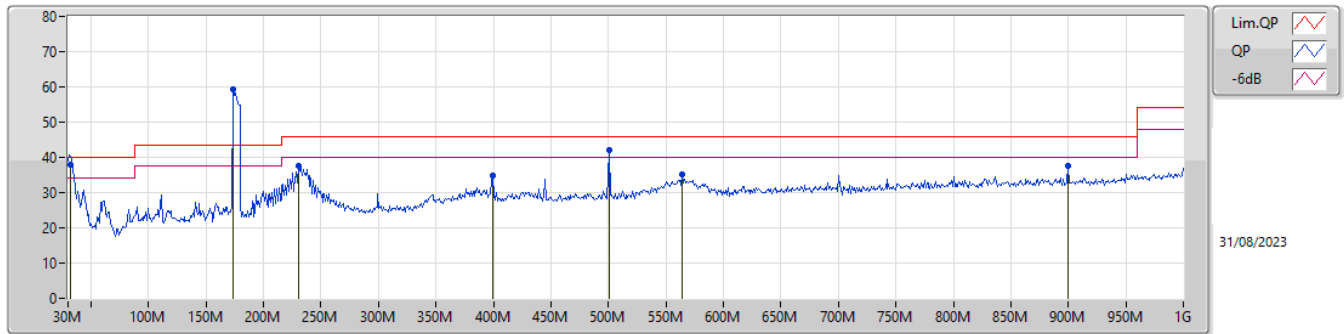
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	31.94M	39.46	40.00	-0.54	Vertical

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
QP	31.94M	39.46	40.00	-0.54	-3.75	3	Vertical	0	3.00	"Worst"	43.21	24.00	0.76	28.51		
QP	53.28M	34.04	40.00	-5.96	-14.46	3	Vertical	12	1.25	-	48.50	13.19	0.96	28.61		
PK	82.38M	33.85	40.00	-6.15	-13.98	3	Vertical	65	1.00	-	47.83	13.44	1.18	28.60		
PK	177.44M	59.00	-	-	-11.33	3	Vertical	3	1.50	-	70.33	15.14	1.72	28.19		
PK	394.72M	35.76	46.00	-10.24	-4.57	3	Vertical	222	1.00	-	40.33	21.48	2.59	28.64		
PK	500.45M	40.08	46.00	-5.92	-3.03	3	Vertical	359	2.00	-	43.11	23.35	2.96	29.34		
PK	600.36M	39.34	46.00	-6.66	-1.37	3	Vertical	69	1.25	-	40.71	24.76	3.21	29.34		

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
QP	31.94M	37.76	40.00	-2.24	-3.75	3	Horizontal	161	3.00	"Worst"	41.51	24.00	0.76	28.51		
PK	173.56M	59.24	-	-	-11.15	3	Horizontal	120	1.25	-	70.39	15.37	1.70	28.22		
PK	230.79M	37.73	46.00	-8.27	-9.84	3	Horizontal	358	1.25	-	47.57	16.12	1.99	27.95		
PK	399.57M	34.73	46.00	-11.27	-4.34	3	Horizontal	313	1.00	-	39.07	21.73	2.61	28.68		
PK	500.45M	42.05	46.00	-3.95	-3.03	3	Horizontal	274	1.00	-	45.08	23.35	2.96	29.34		
PK	564.47M	35.27	46.00	-10.73	-1.40	3	Horizontal	159	1.50	-	36.67	24.80	3.16	29.36		
PK	900.09M	37.59	46.00	-8.41	1.68	3	Horizontal	336	1.25	-	35.91	26.46	3.99	28.77		

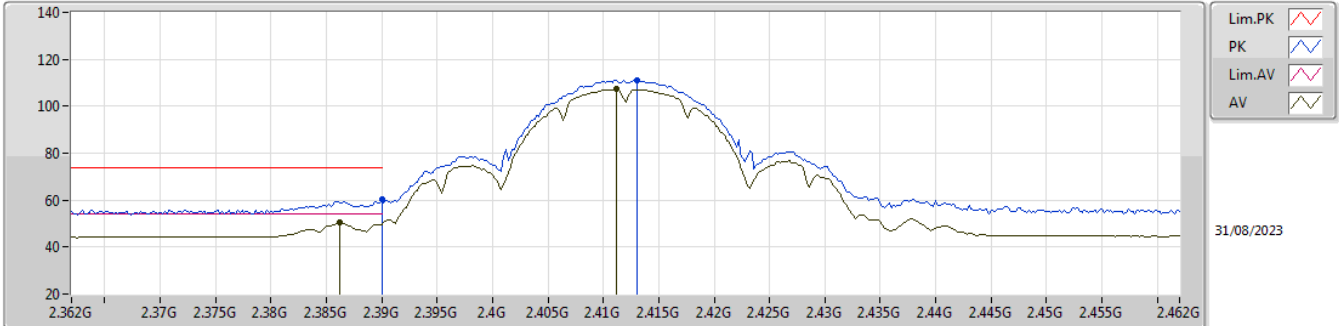


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	53.97	54.00	-0.03	3	Horizontal	348	1.02	-

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

2412MHz_TX

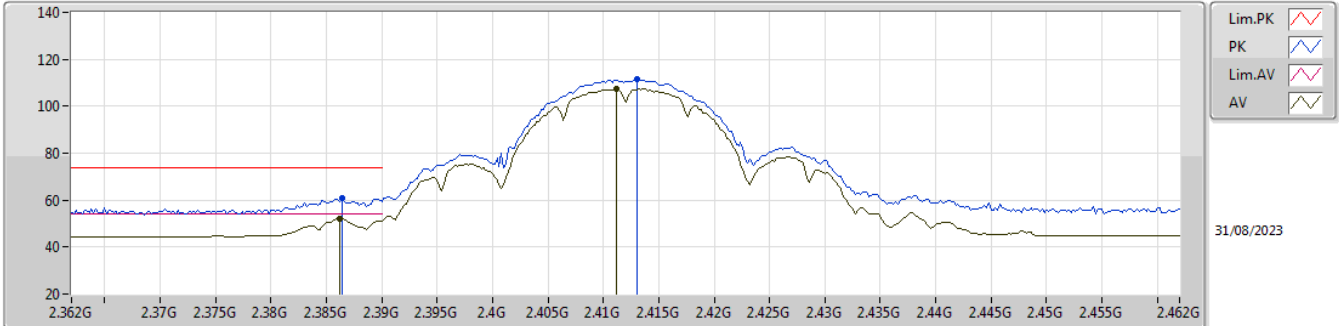


EUT_Z_1TX
Setting 60
03-E-R-7

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	60.11	74.00	-13.89	27.92	3	Vertical	88	3.00	-	28.20	3.99	-				
AV	2.3862G	50.36	54.00	-3.64	18.17	3	Vertical	88	3.00	-	28.20	3.99	-				
PK	2.413G	111.16	Inf	-Inf	78.95	3	Vertical	88	3.00	-	28.20	4.01	-				
AV	2.4112G	107.25	Inf	-Inf	75.04	3	Vertical	88	3.00	-	28.20	4.01	-				

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

2412MHz_TX

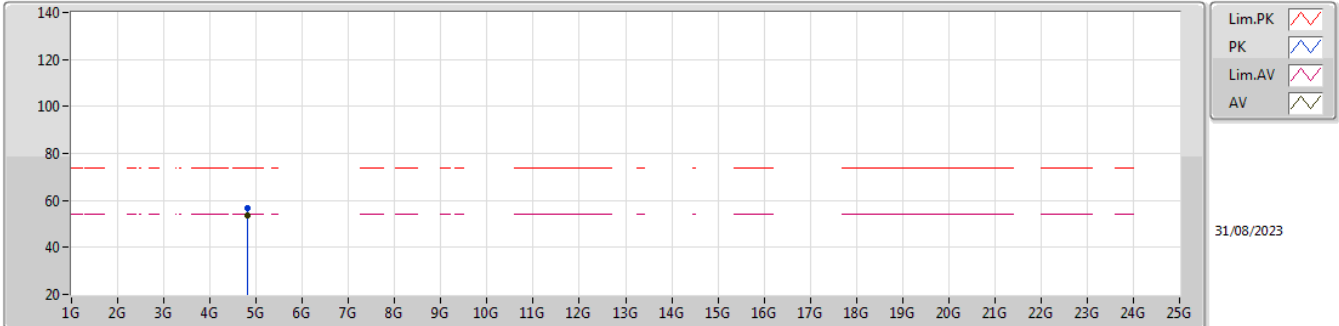


EUT_Z_1TX
Setting 60
03-E-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3864G	60.72	74.00	-13.28	28.53	3	Horizontal	346	1.00	-	28.20	3.99	-				
AV	2.3862G	52.19	54.00	-1.81	20.00	3	Horizontal	346	1.00	-	28.20	3.99	-				
PK	2.413G	111.35	Inf	-Inf	79.14	3	Horizontal	346	1.00	-	28.20	4.01	-				
AV	2.4112G	107.35	Inf	-Inf	75.14	3	Horizontal	346	1.00	-	28.20	4.01	-				

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

2412MHz_TX

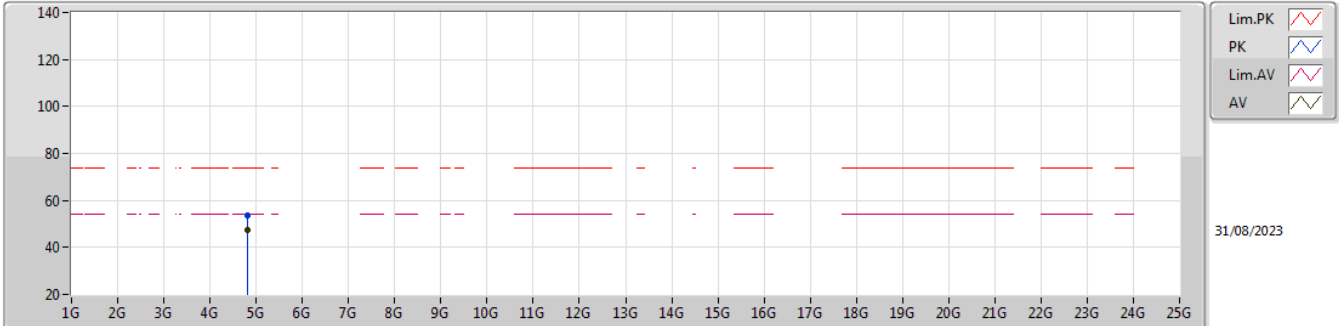


EUT_Z_1TX
Setting 60
03-E-R-7

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	4.824G	56.67	74.00	-17.33	51.45	3	Vertical	70	2.90	-	33.40	6.51	34.69			
AV	4.824G	53.48	54.00	-0.52	48.26	3	Vertical	70	2.90	-	33.40	6.51	34.69			

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

2412MHz_TX

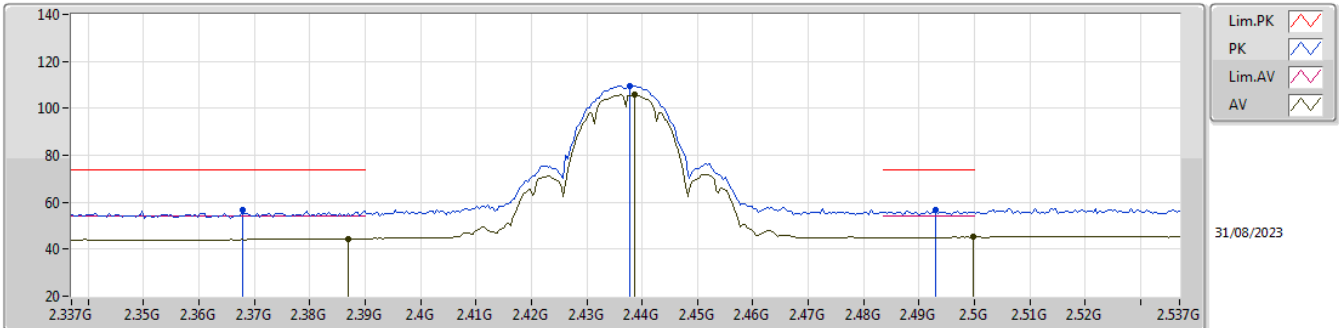


EUT_Z_1TX
Setting 60
03-E-R-7

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	4.8239G	53.38	74.00	-20.62	48.16	3	Horizontal	11	2.53	-	33.40	6.51	34.69			
AV	4.824G	47.39	54.00	-6.61	42.17	3	Horizontal	11	2.53	-	33.40	6.51	34.69			

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

2437MHz_TX

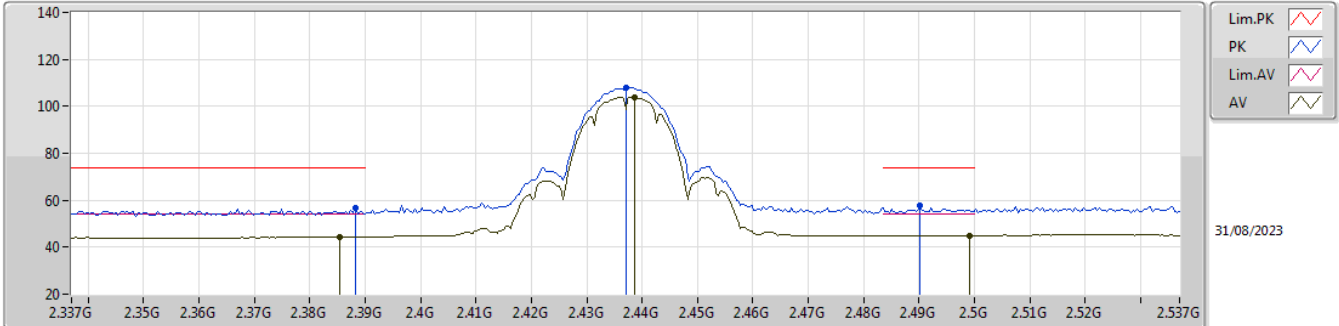


EUT_Z_1TX
Setting 55
03-E-R-7

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	2.3678G	56.71	74.00	-17.29	24.54	3	Vertical	104	2.61	-	28.20	3.97	-			
AV	2.387G	44.48	54.00	-9.52	12.29	3	Vertical	104	2.61	-	28.20	3.99	-			
PK	2.4378G	109.70	Inf	-Inf	77.46	3	Vertical	104	2.61	-	28.20	4.04	-			
AV	2.4386G	105.67	Inf	-Inf	73.43	3	Vertical	104	2.61	-	28.20	4.04	-			
PK	2.493G	56.71	74.00	-17.29	24.16	3	Vertical	104	2.61	-	28.46	4.09	-			
AV	2.4998G	45.14	54.00	-8.86	12.54	3	Vertical	104	2.61	-	28.50	4.10	-			

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

2437MHz_TX

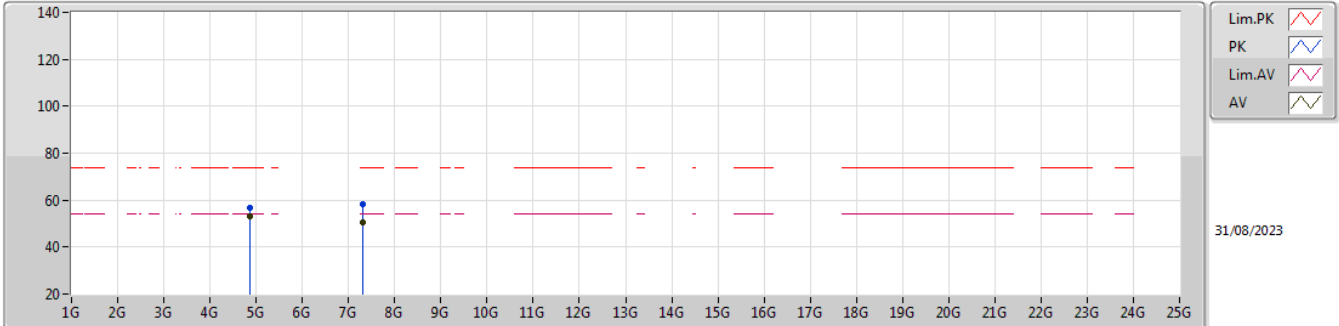


EUT_Z_1TX
Setting 55
03-E-R-7

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	56.69	74.00	-17.31	24.50	3	Horizontal	81	1.77	-	28.20	3.99	-			
AV	2.3854G	44.41	54.00	-9.59	12.22	3	Horizontal	81	1.77	-	28.20	3.99	-			
PK	2.437G	108.13	Inf	-Inf	75.89	3	Horizontal	81	1.77	-	28.20	4.04	-			
AV	2.4386G	103.83	Inf	-Inf	71.59	3	Horizontal	81	1.77	-	28.20	4.04	-			
PK	2.4902G	57.64	74.00	-16.36	25.11	3	Horizontal	81	1.77	-	28.44	4.09	-			
AV	2.499G	45.04	54.00	-8.96	12.45	3	Horizontal	81	1.77	-	28.49	4.10	-			

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

2437MHz_TX

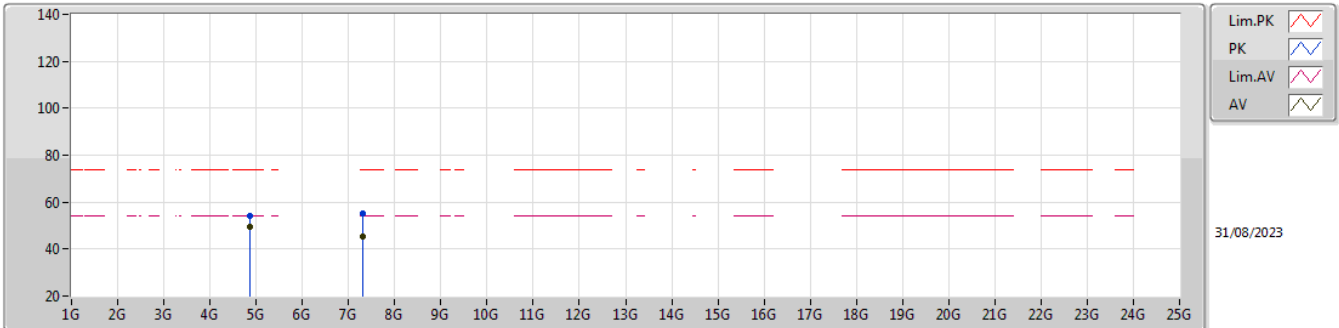


EUT_Z_1TX
Setting 55
03-E-R-7

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	4.8739G	56.56	74.00	-17.44	51.21	3	Vertical	69	2.69	-	33.54	6.54	34.73			
AV	4.874G	53.31	54.00	-0.69	47.96	3	Vertical	69	2.69	-	33.54	6.54	34.73			
PK	7.3119G	58.15	74.00	-15.85	48.01	3	Vertical	102	1.05	-	36.82	8.70	35.38			
AV	7.3102G	50.40	54.00	-3.60	40.26	3	Vertical	102	1.05	-	36.82	8.70	35.38			

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

2437MHz_TX

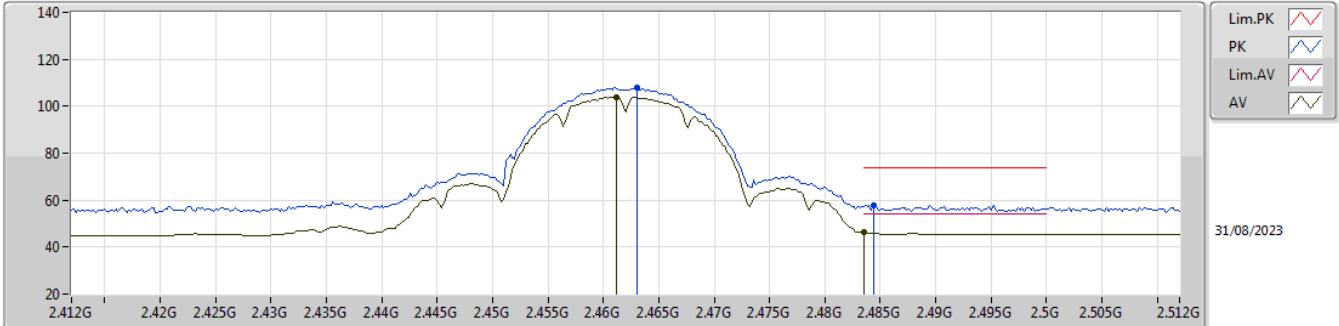


EUT_Z_1TX
Setting 55
03-E-R-7

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	54.28	74.00	-19.72	48.93	3	Horizontal	282	2.91	-	33.54	6.54	34.73			
AV	4.874G	49.65	54.00	-4.35	44.30	3	Horizontal	282	2.91	-	33.54	6.54	34.73			
PK	7.3118G	55.30	74.00	-18.70	45.16	3	Horizontal	65	2.86	-	36.82	8.70	35.38			
AV	7.3117G	45.57	54.00	-8.43	35.43	3	Horizontal	65	2.86	-	36.82	8.70	35.38			

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

2462MHz_TX

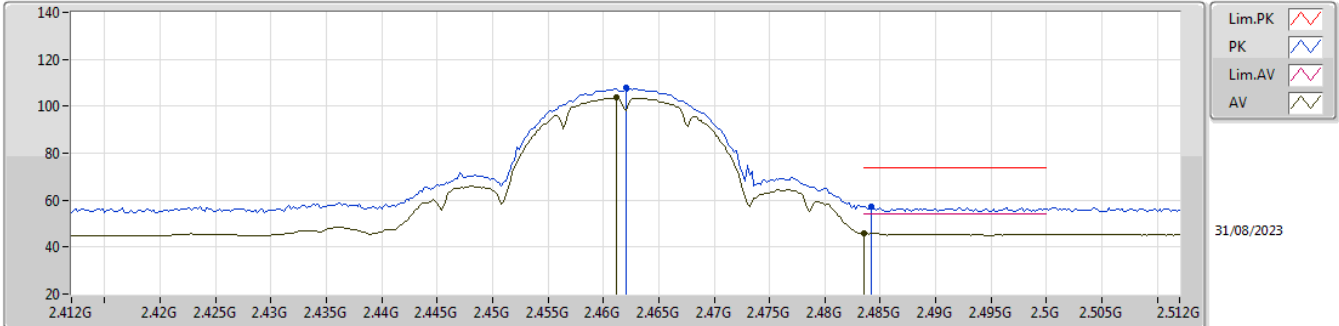


EUT_Z_1TX
Setting 52
03-E-R-7

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	107.69	Inf	-Inf	75.35	3	Vertical	108	2.57	-	28.28	4.06	-			
AV	2.4612G	103.83	Inf	-Inf	71.50	3	Vertical	108	2.57	-	28.27	4.06	-			
PK	2.4844G	57.82	74.00	-16.18	25.33	3	Vertical	108	2.57	-	28.41	4.08	-			
AV	2.4835G	46.33	54.00	-7.67	13.85	3	Vertical	108	2.57	-	28.40	4.08	-			

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

2462MHz_TX

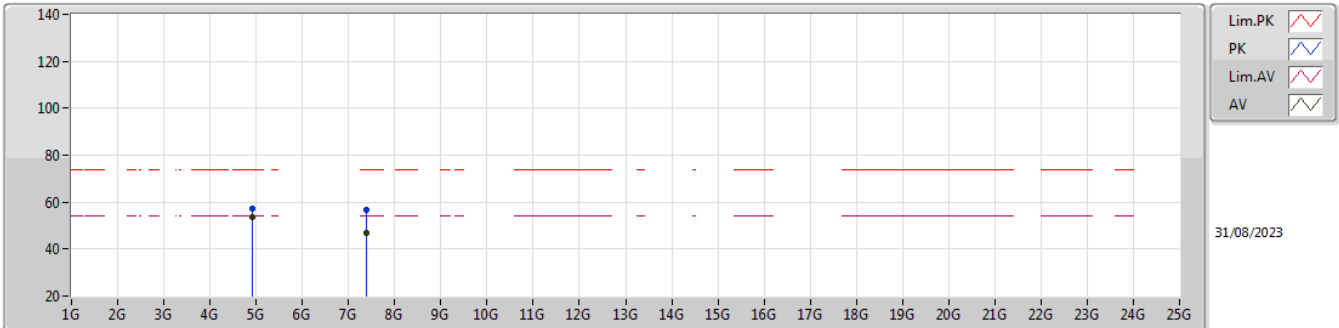


EUT_Z_1TX
Setting 52
03-E-R-7

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	2.462G	108.04	Inf	-Inf	75.71	3	Horizontal	350	1.24	-	28.27	4.06	-			
AV	2.4612G	103.54	Inf	-Inf	71.21	3	Horizontal	350	1.24	-	28.27	4.06	-			
PK	2.4842G	57.42	74.00	-16.58	24.93	3	Horizontal	350	1.24	-	28.41	4.08	-			
AV	2.4835G	46.09	54.00	-7.91	13.61	3	Horizontal	350	1.24	-	28.40	4.08	-			

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

2462MHz_TX

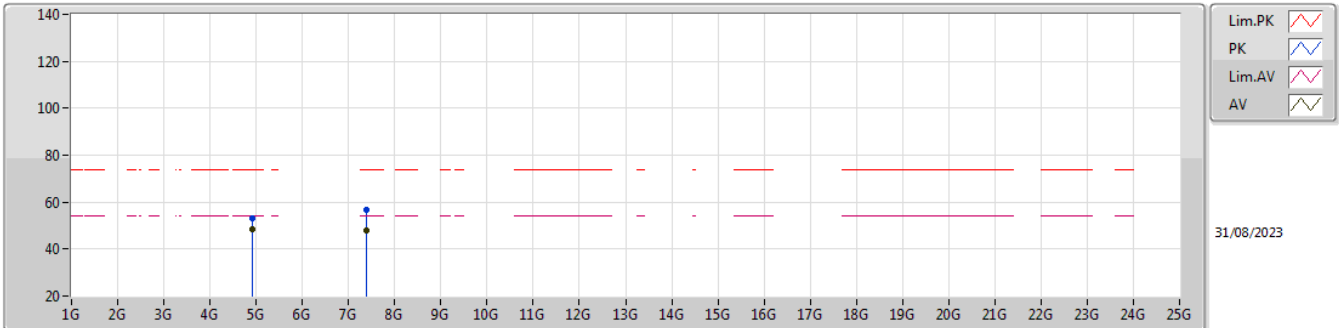


EUT_Z_1TX
Setting 52
03-E-R-7

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	57.07	74.00	-16.93	51.63	3	Vertical	262	1.03	-	33.65	6.56	34.77			
AV	4.924G	53.82	54.00	-0.18	48.38	3	Vertical	262	1.03	-	33.65	6.56	34.77			
PK	7.387G	56.47	74.00	-17.53	46.21	3	Vertical	105	1.00	-	36.90	8.70	35.34			
AV	7.3867G	46.72	54.00	-7.28	36.46	3	Vertical	105	1.00	-	36.90	8.70	35.34			

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

2462MHz_TX

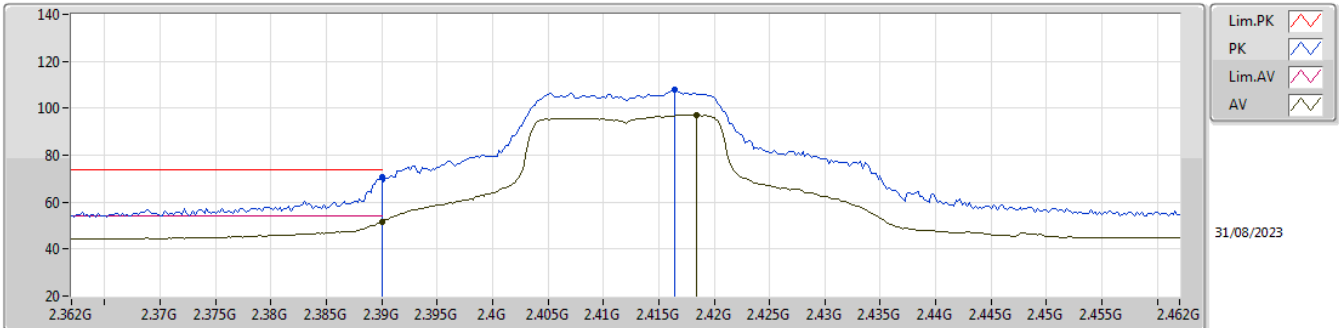


EUT_Z_1TX
Setting 52
03-E-R-7

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	53.19	74.00	-20.81	47.75	3	Horizontal	11	2.75	-	33.65	6.56	34.77			
AV	4.924G	48.41	54.00	-5.59	42.97	3	Horizontal	11	2.75	-	33.65	6.56	34.77			
PK	7.3865G	56.87	74.00	-17.13	46.61	3	Horizontal	119	2.53	-	36.90	8.70	35.34			
AV	7.3867G	47.96	54.00	-6.04	37.70	3	Horizontal	119	2.53	-	36.90	8.70	35.34			

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

2412MHz_TX

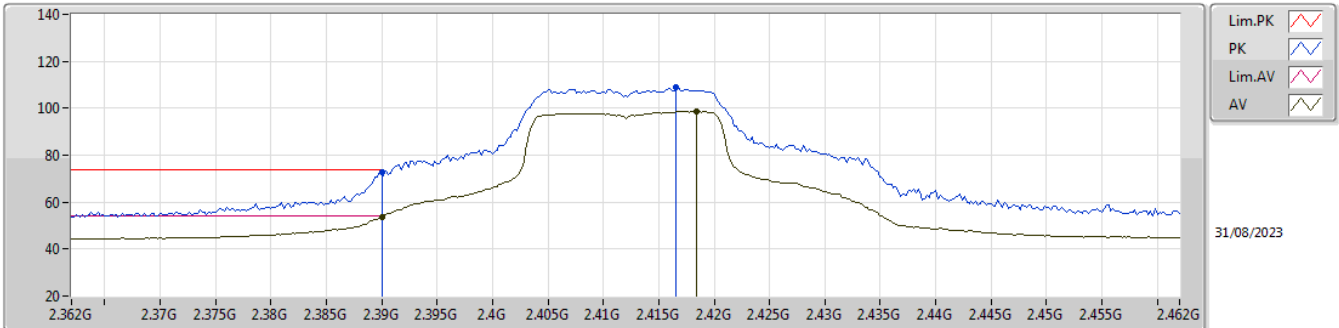


EUT_Z_1TX
Setting 57
03-E-R-7

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	70.68	74.00	-3.32	38.49	3	Vertical	229	2.42	-	28.20	3.99	-			
AV	2.39G	51.48	54.00	-2.52	19.29	3	Vertical	229	2.42	-	28.20	3.99	-			
PK	2.4164G	107.72	Inf	-Inf	75.50	3	Vertical	229	2.42	-	28.20	4.02	-			
AV	2.4184G	97.17	Inf	-Inf	64.95	3	Vertical	229	2.42	-	28.20	4.02	-			

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

2412MHz_TX

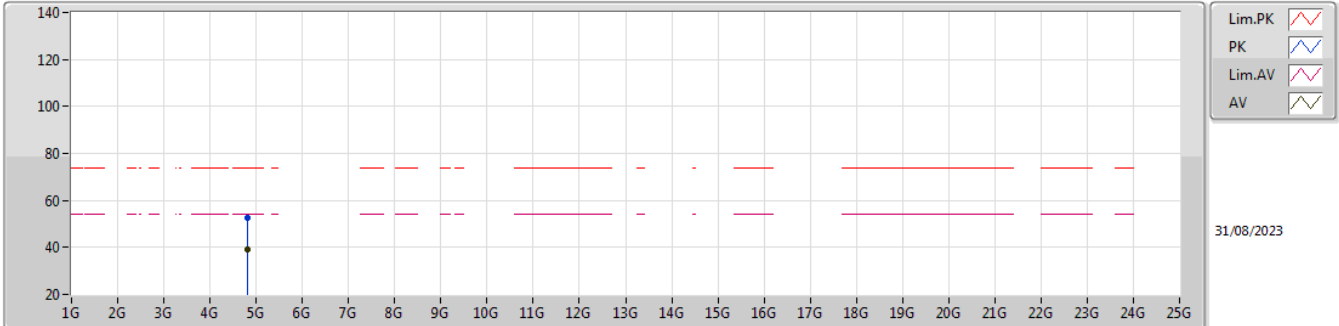


EUT_Z_1TX
Setting 57
03-E-R-7

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	72.96	74.00	-1.04	40.77	3	Horizontal	348	1.01	-	28.20	3.99	-			
AV	2.39G	53.75	54.00	-0.25	21.56	3	Horizontal	348	1.01	-	28.20	3.99	-			
PK	2.4166G	109.05	Inf	-Inf	76.83	3	Horizontal	348	1.01	-	28.20	4.02	-			
AV	2.4184G	98.60	Inf	-Inf	66.38	3	Horizontal	348	1.01	-	28.20	4.02	-			

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

2412MHz_TX

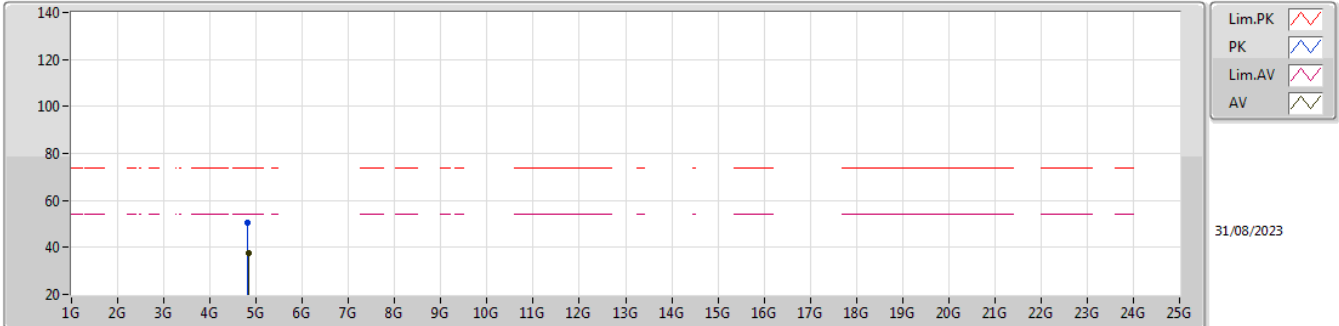


EUT_Z_1TX
Setting 57
03-E-R-7

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	4.8197G	52.66	74.00	-21.34	47.44	3	Vertical	269	1.00	-	33.40	6.51	34.69			
AV	4.8217G	39.08	54.00	-14.92	33.86	3	Vertical	269	1.00	-	33.40	6.51	34.69			

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

2412MHz_TX

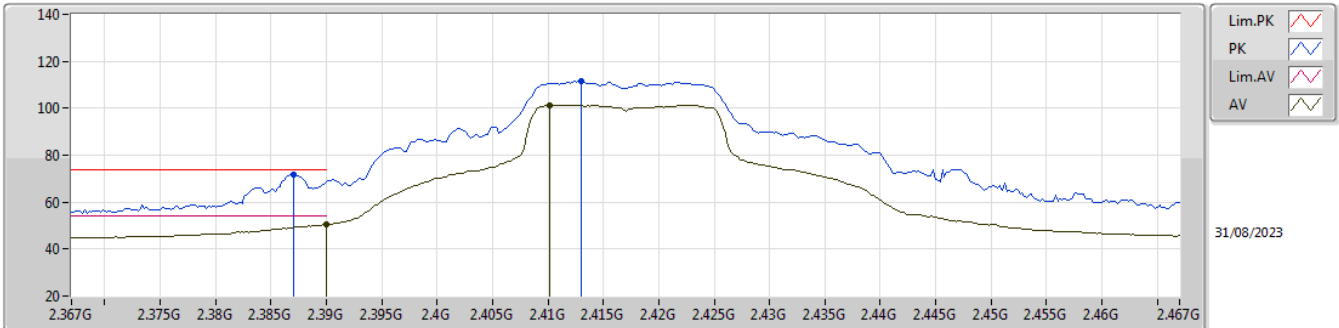


EUT_Z_1TX
Setting 57
03-E-R-7

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	4.8187G	50.61	74.00	-23.39	45.39	3	Horizontal	8	2.80	-	33.40	6.51	34.69			
AV	4.8251G	37.78	54.00	-16.22	32.56	3	Horizontal	8	2.80	-	33.40	6.51	34.69			

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

2417MHz_TX

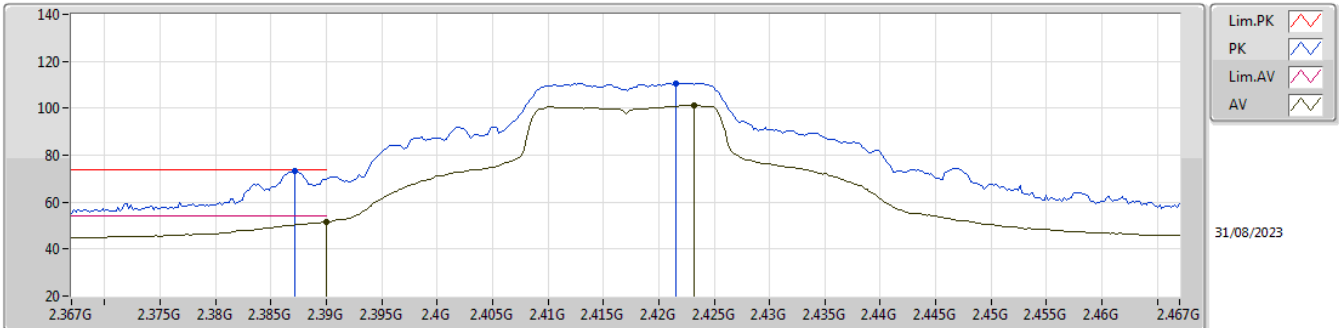


EUT_Z_1TX
Setting 63
03-E-R-7

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	2.387G	71.75	74.00	-2.25	39.56	3	Vertical	93	3.00	-	28.20	3.99	-				
AV	2.39G	50.65	54.00	-3.35	18.46	3	Vertical	93	3.00	-	28.20	3.99	-				
PK	2.413G	111.71	Inf	-Inf	79.50	3	Vertical	93	3.00	-	28.20	4.01	-				
AV	2.4102G	101.41	Inf	-Inf	69.20	3	Vertical	93	3.00	-	28.20	4.01	-				

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

2417MHz_TX

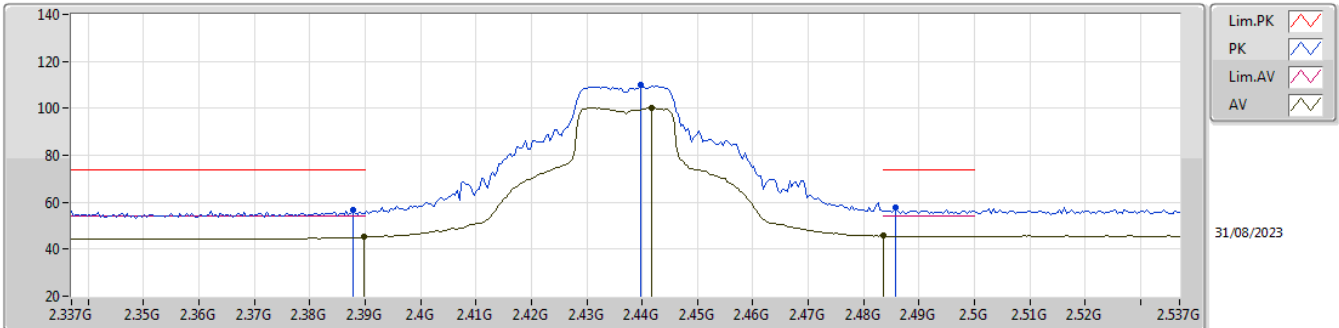


EUT_Z_1TX
Setting 63
03-E-R-7

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	2.3872G	73.30	74.00	-0.70	41.11	3	Horizontal	346	1.04	-	28.20	3.99	-			
AV	2.39G	51.79	54.00	-2.21	19.60	3	Horizontal	346	1.04	-	28.20	3.99	-			
PK	2.4216G	110.77	Inf	-Inf	78.55	3	Horizontal	346	1.04	-	28.20	4.02	-			
AV	2.4232G	101.33	Inf	-Inf	69.11	3	Horizontal	346	1.04	-	28.20	4.02	-			

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

2437MHz_TX

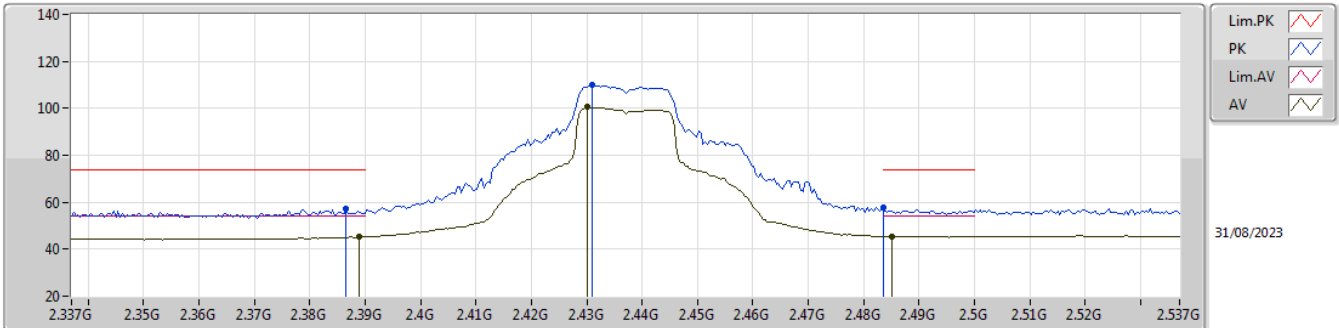


EUT_Z_1TX
Setting 63
03-E-R-7

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	2.3878G	56.48	74.00	-17.52	24.29	3	Vertical	114	3.00	-	28.20	3.99	-			
AV	2.3898G	45.37	54.00	-8.63	13.18	3	Vertical	114	3.00	-	28.20	3.99	-			
PK	2.4398G	109.77	Inf	-Inf	77.53	3	Vertical	114	3.00	-	28.20	4.04	-			
AV	2.4418G	100.19	Inf	-Inf	67.95	3	Vertical	114	3.00	-	28.20	4.04	-			
PK	2.4858G	57.56	74.00	-16.44	25.06	3	Vertical	114	3.00	-	28.41	4.09	-			
AV	2.4835G	45.67	54.00	-8.33	13.19	3	Vertical	114	3.00	-	28.40	4.08	-			

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

2437MHz_TX

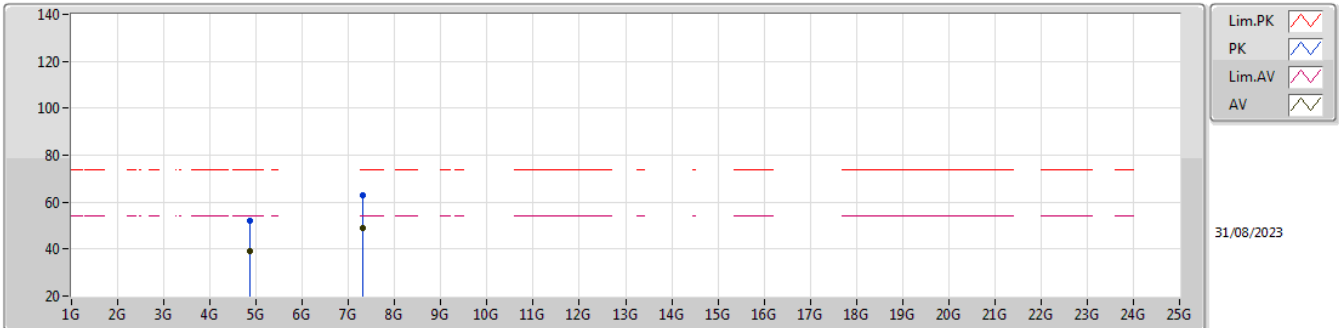


EUT_Z_1TX
Setting 63
03-E-R-7

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	2.3866G	56.99	74.00	-17.01	24.80	3	Horizontal	346	1.28	-	28.20	3.99	-			
AV	2.389G	45.31	54.00	-8.69	13.12	3	Horizontal	346	1.28	-	28.20	3.99	-			
PK	2.431G	109.85	Inf	-Inf	77.62	3	Horizontal	346	1.28	-	28.20	4.03	-			
AV	2.4302G	100.47	Inf	-Inf	68.24	3	Horizontal	346	1.28	-	28.20	4.03	-			
PK	2.4835G	57.71	74.00	-16.29	25.23	3	Horizontal	346	1.28	-	28.40	4.08	-			
AV	2.485G	45.51	54.00	-8.49	13.02	3	Horizontal	346	1.28	-	28.41	4.08	-			

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

2437MHz_TX

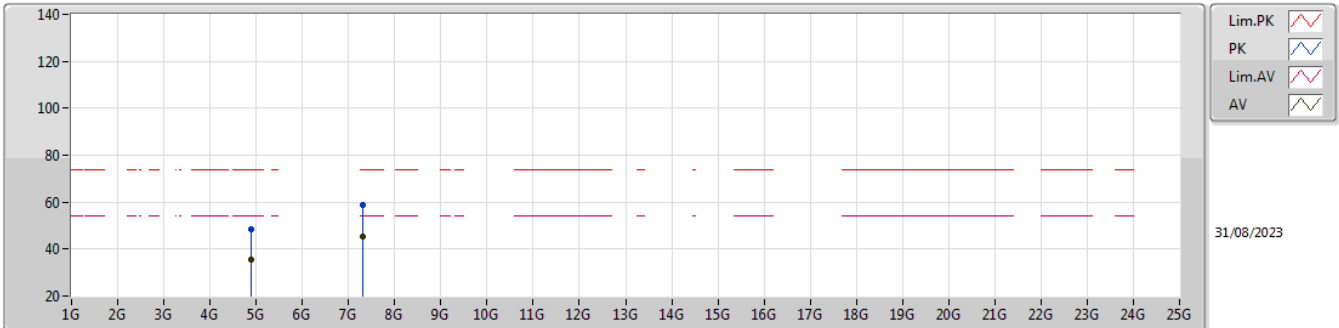


EUT_Z_1TX
Setting 63
03-E-R-7

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	4.8723G	51.86	74.00	-22.14	46.52	3	Vertical	262	1.03	-	33.53	6.54	34.73			
AV	4.8755G	38.97	54.00	-15.03	33.61	3	Vertical	262	1.03	-	33.55	6.54	34.73			
PK	7.3073G	62.68	74.00	-11.32	52.55	3	Vertical	110	1.01	-	36.81	8.70	35.38			
AV	7.3147G	49.00	54.00	-5.00	38.85	3	Vertical	110	1.01	-	36.83	8.70	35.38			

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

2437MHz_TX

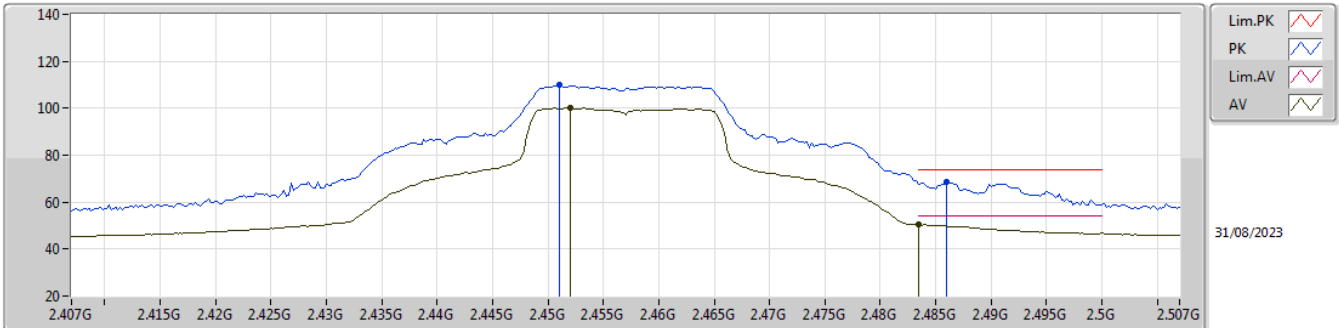


EUT_Z_1TX
Setting 63
03-E-R-7

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	4.8919G	48.47	74.00	-25.53	43.02	3	Horizontal	210	2.41	-	33.65	6.55	34.75			
AV	4.8793G	35.69	54.00	-18.31	30.31	3	Horizontal	210	2.41	-	33.58	6.54	34.74			
PK	7.3099G	58.57	74.00	-15.43	48.43	3	Horizontal	66	2.49	-	36.82	8.70	35.38			
AV	7.3168G	45.28	54.00	-8.72	35.13	3	Horizontal	66	2.49	-	36.83	8.70	35.38			

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

2457MHz_TX

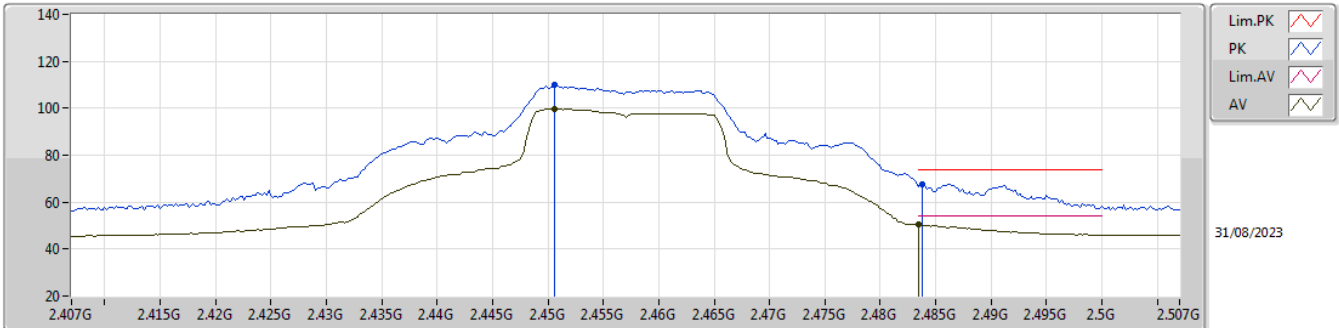


EUT_Z_1TX
Setting 63
03-E-R-7

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	2.451G	109.99	Inf	-Inf	77.73	3	Vertical	112	2.52	-	28.21	4.05	-			
AV	2.452G	100.03	Inf	-Inf	67.77	3	Vertical	112	2.52	-	28.21	4.05	-			
PK	2.486G	68.48	74.00	-5.52	35.97	3	Vertical	112	2.52	-	28.42	4.09	-			
AV	2.4835G	50.51	54.00	-3.49	18.03	3	Vertical	112	2.52	-	28.40	4.08	-			

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

2457MHz_TX

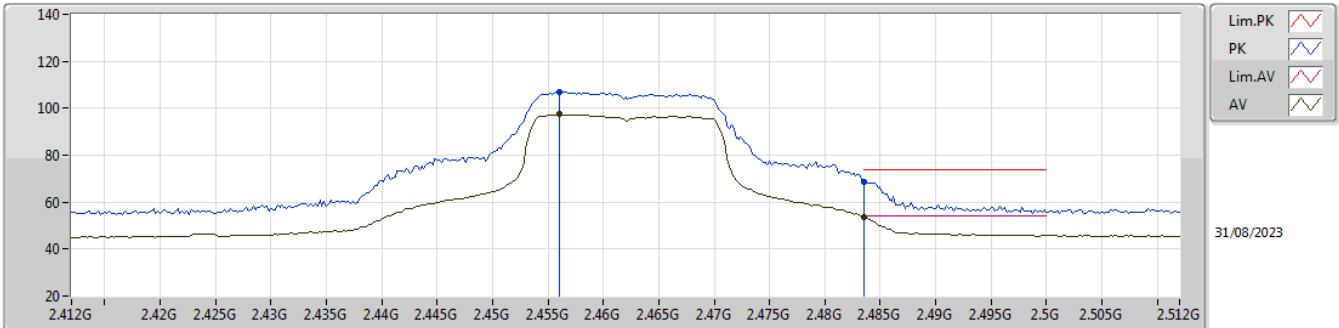


EUT_Z_1TX
Setting 63
03-E-R-7

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	2.4506G	109.97	Inf	-Inf	77.72	3	Horizontal	351	1.64	-	28.20	4.05	-			
AV	2.4506G	99.62	Inf	-Inf	67.37	3	Horizontal	351	1.64	-	28.20	4.05	-			
PK	2.4838G	67.58	74.00	-6.42	35.10	3	Horizontal	351	1.64	-	28.40	4.08	-			
AV	2.4835G	50.30	54.00	-3.70	17.82	3	Horizontal	351	1.64	-	28.40	4.08	-			

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

2462MHz_TX

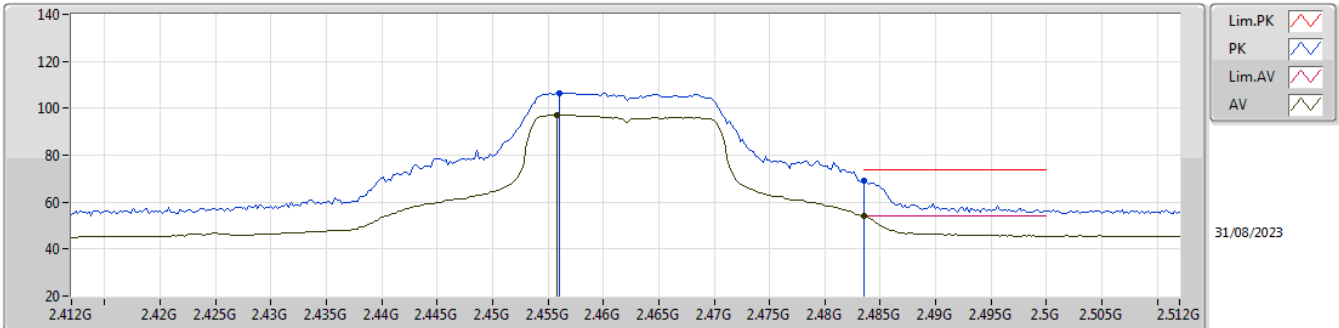


EUT_Z_1TX
Setting 56
03-E-R-7

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	2.456G	106.78	Inf	-Inf	74.48	3	Vertical	110	2.53	-	28.24	4.06	-			
AV	2.456G	97.34	Inf	-Inf	65.04	3	Vertical	110	2.53	-	28.24	4.06	-			
PK	2.4835G	68.82	74.00	-5.18	36.34	3	Vertical	110	2.53	-	28.40	4.08	-			
AV	2.4835G	53.81	54.00	-0.19	21.33	3	Vertical	110	2.53	-	28.40	4.08	-			

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

2462MHz_TX

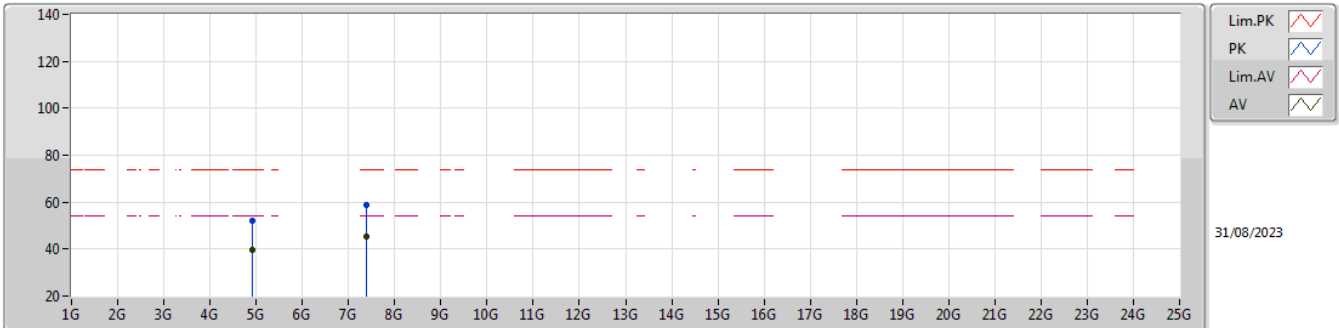


EUT_Z_1TX
Setting 56
03-E-R-7

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	2.456G	106.56	Inf	-Inf	74.26	3	Horizontal	348	1.02	-	28.24	4.06	-			
AV	2.4558G	97.24	Inf	-Inf	64.95	3	Horizontal	348	1.02	-	28.23	4.06	-			
PK	2.4835G	69.23	74.00	-4.77	36.75	3	Horizontal	348	1.02	-	28.40	4.08	-			
AV	2.4835G	53.97	54.00	-0.03	21.49	3	Horizontal	348	1.02	-	28.40	4.08	-			

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

2462MHz_TX

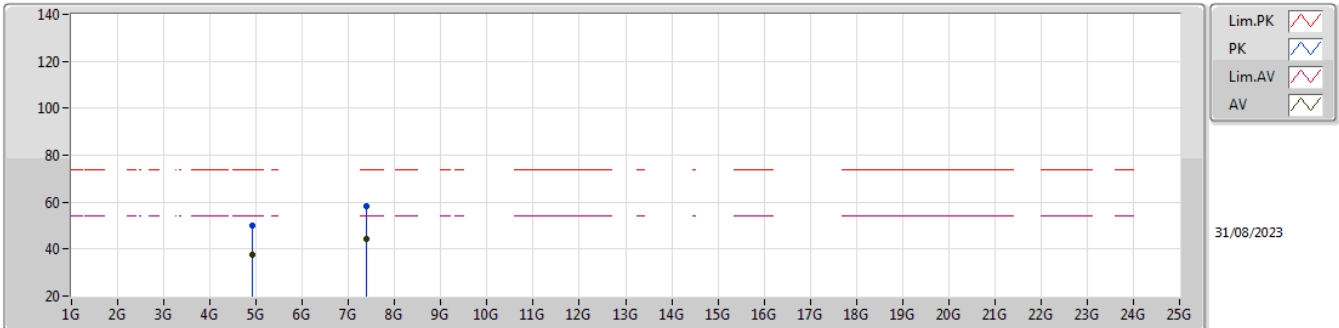


EUT_Z_1TX
Setting 56
03-E-R-7

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	4.9284G	52.13	74.00	-21.87	46.70	3	Vertical	270	1.04	-	33.64	6.56	34.77			
AV	4.9234G	39.57	54.00	-14.43	34.13	3	Vertical	270	1.04	-	33.65	6.56	34.77			
PK	7.3881G	58.69	74.00	-15.31	48.42	3	Vertical	110	1.00	-	36.90	8.70	35.33			
AV	7.3853G	45.20	54.00	-8.80	34.94	3	Vertical	110	1.00	-	36.90	8.70	35.34			

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

2462MHz_TX

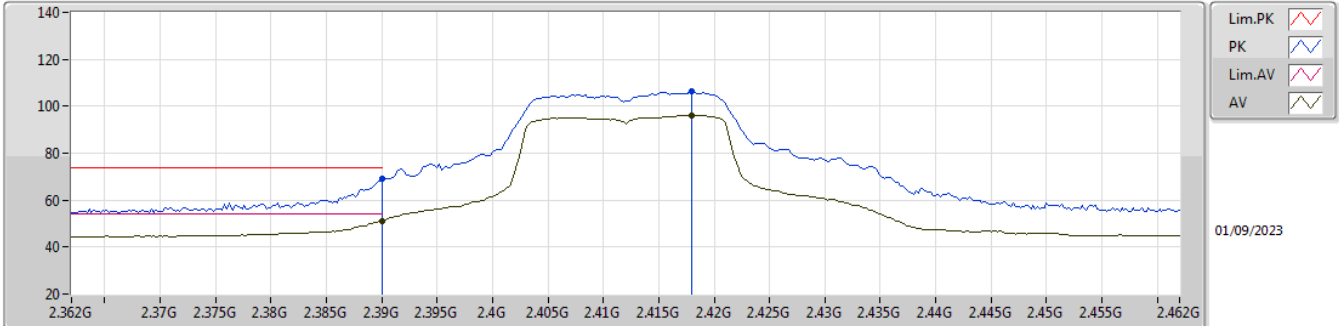


EUT_Z_1TX
Setting 56
03-E-R-7

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	4.922G	50.03	74.00	-23.97	44.58	3	Horizontal	360	3.00	-	33.66	6.56	34.77			
AV	4.9248G	37.50	54.00	-16.50	32.06	3	Horizontal	360	3.00	-	33.65	6.56	34.77			
PK	7.3868G	58.02	74.00	-15.98	47.76	3	Horizontal	115	3.00	-	36.90	8.70	35.34			
AV	7.3867G	44.39	54.00	-9.61	34.13	3	Horizontal	115	3.00	-	36.90	8.70	35.34			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

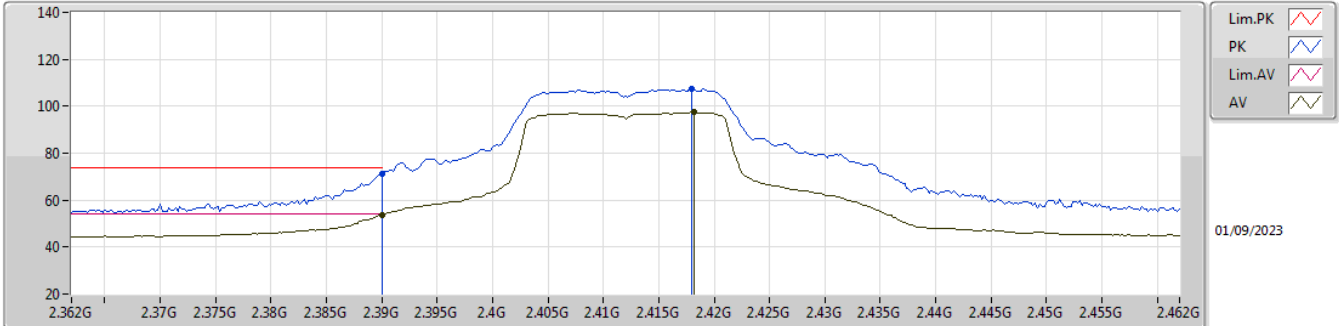


EUT_Z_1TX
Setting 55
03-E-R-7

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	68.91	74.00	-5.09	36.72	3	Vertical	230	2.41	-	28.20	3.99	-			
AV	2.39G	51.29	54.00	-2.71	19.10	3	Vertical	230	2.41	-	28.20	3.99	-			
PK	2.418G	106.34	Inf	-Inf	74.12	3	Vertical	230	2.41	-	28.20	4.02	-			
AV	2.418G	96.05	Inf	-Inf	63.83	3	Vertical	230	2.41	-	28.20	4.02	-			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

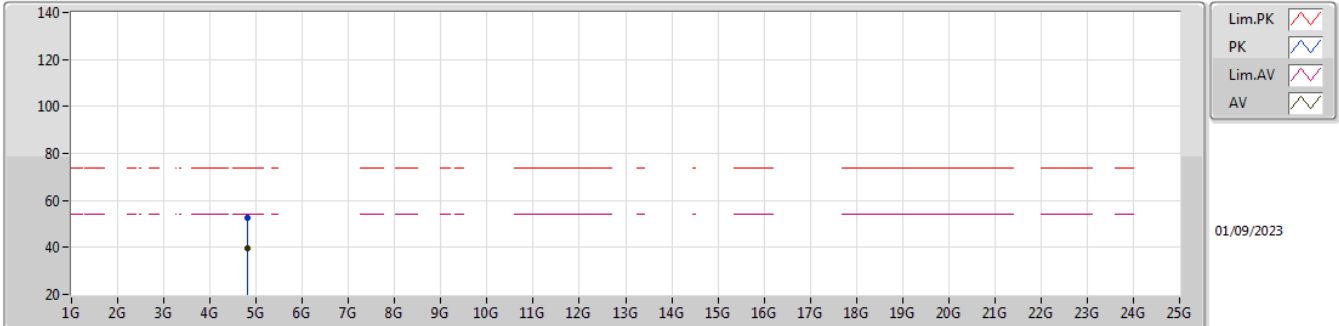


EUT_Z_1TX
Setting 55
03-E-R-7

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	39.25	3	Horizontal	345	1.00	-	28.20	3.99	-			
AV	2.39G	53.61	54.00	-0.39	21.42	3	Horizontal	345	1.00	-	28.20	3.99	-			
PK	2.418G	107.65	Inf	-Inf	75.43	3	Horizontal	345	1.00	-	28.20	4.02	-			
AV	2.4182G	97.35	Inf	-Inf	65.13	3	Horizontal	345	1.00	-	28.20	4.02	-			

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2412MHz_TX

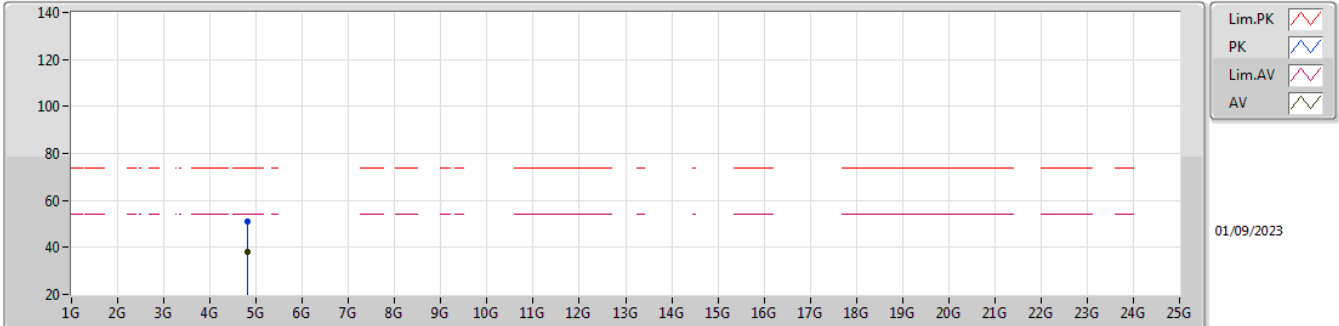


EUT_Z_1TX
Setting 55
03-E-R-7

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	4.8205G	52.40	74.00	-21.60	47.18	3	Vertical	270	1.10	-	33.40	6.51	34.69			
AV	4.8216G	39.44	54.00	-14.56	34.22	3	Vertical	270	1.10	-	33.40	6.51	34.69			

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2412MHz_TX

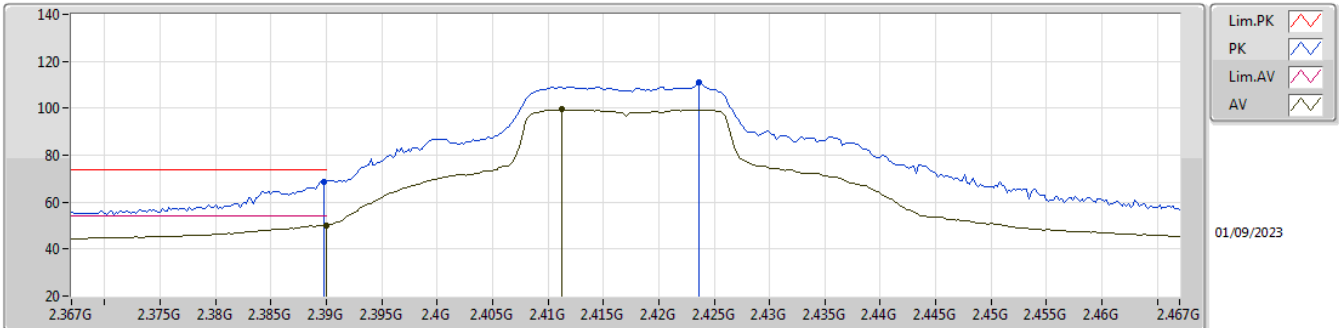


EUT_Z_1TX
Setting 55
03-E-R-7

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	4.8218G	50.86	74.00	-23.14	45.64	3	Horizontal	5	2.90	-	33.40	6.51	34.69			
AV	4.8216G	38.31	54.00	-15.69	33.09	3	Horizontal	5	2.90	-	33.40	6.51	34.69			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2417MHz_TX

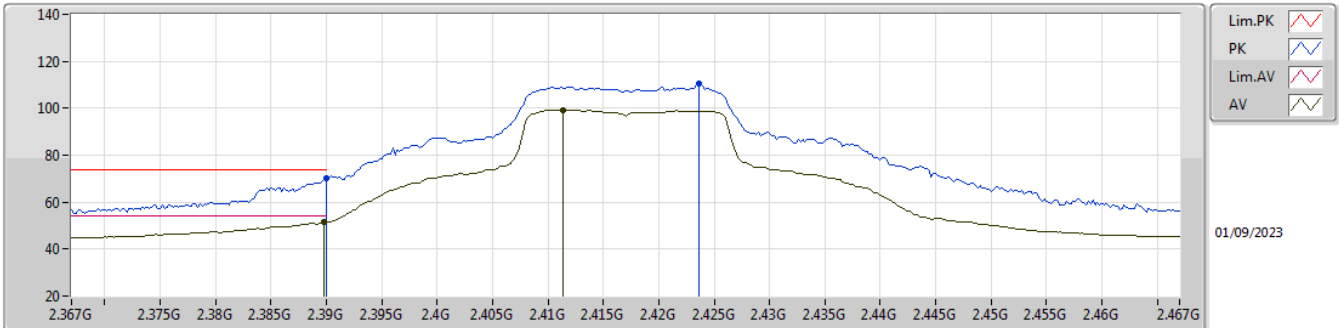


EUT_Z_1TX
Setting 63
03-C-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3898G	68.79	74.00	-5.21	36.60	3	Vertical	97	3.00	-	28.20	3.99	-			
AV	2.39G	50.23	54.00	-3.77	18.04	3	Vertical	97	3.00	-	28.20	3.99	-			
PK	2.4236G	110.86	Inf	-Inf	78.64	3	Vertical	97	3.00	-	28.20	4.02	-			
AV	2.4112G	99.45	Inf	-Inf	67.24	3	Vertical	97	3.00	-	28.20	4.01	-			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2417MHz_TX

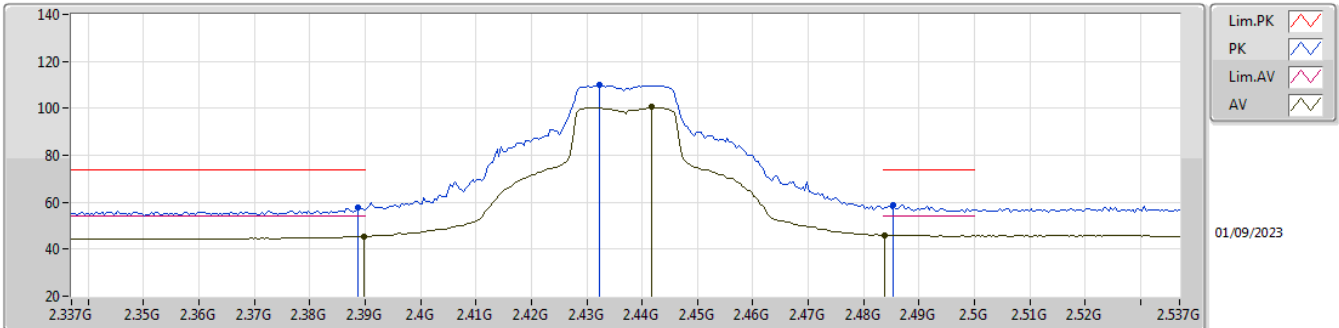


EUT_Z_1TX
Setting 63
03-C-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.39G	70.04	74.00	-3.96	37.85	3	Horizontal	336	1.01	-	28.20	3.99	-			
AV	2.3898G	51.34	54.00	-2.66	19.15	3	Horizontal	336	1.01	-	28.20	3.99	-			
PK	2.4236G	110.51	Inf	-Inf	78.29	3	Horizontal	336	1.01	-	28.20	4.02	-			
AV	2.4114G	99.31	Inf	-Inf	67.10	3	Horizontal	336	1.01	-	28.20	4.01	-			

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2437MHz_TX

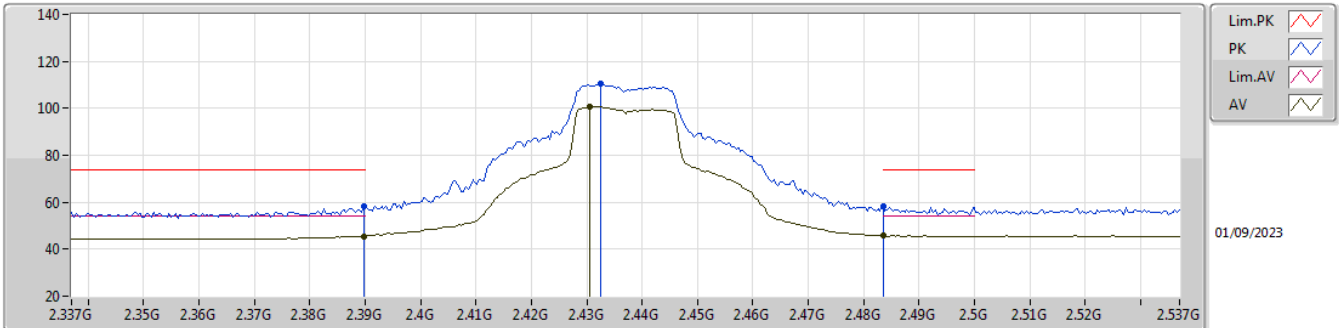


EUT_Z_1TX
Setting 63
03-E-R-7

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	57.65	74.00	-16.35	25.46	3	Vertical	114	3.00	-	28.20	3.99	-			
AV	2.3898G	45.38	54.00	-8.62	13.19	3	Vertical	114	3.00	-	28.20	3.99	-			
PK	2.4322G	109.88	Inf	-Inf	77.65	3	Vertical	114	3.00	-	28.20	4.03	-			
AV	2.4418G	100.44	Inf	-Inf	68.20	3	Vertical	114	3.00	-	28.20	4.04	-			
PK	2.4854G	58.58	74.00	-15.42	26.08	3	Vertical	114	3.00	-	28.41	4.09	-			
AV	2.4838G	45.95	54.00	-8.05	13.47	3	Vertical	114	3.00	-	28.40	4.08	-			

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2437MHz_TX

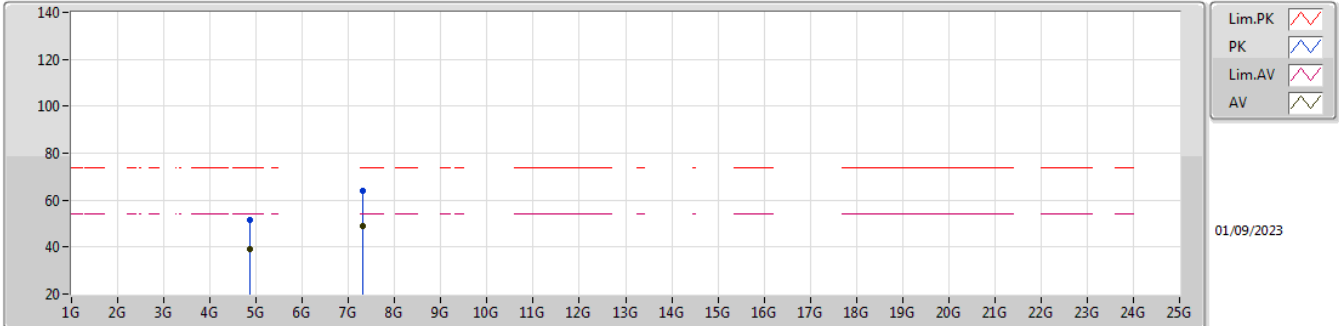


EUT_Z_1TX
Setting 63
03-E-R-7

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	58.09	74.00	-15.91	25.90	3	Horizontal	346	1.28	-	28.20	3.99	-			
AV	2.3898G	45.55	54.00	-8.45	13.36	3	Horizontal	346	1.28	-	28.20	3.99	-			
PK	2.4326G	110.30	Inf	-Inf	78.07	3	Horizontal	346	1.28	-	28.20	4.03	-			
AV	2.4306G	100.66	Inf	-Inf	68.43	3	Horizontal	346	1.28	-	28.20	4.03	-			
PK	2.4835G	58.48	74.00	-15.52	26.00	3	Horizontal	346	1.28	-	28.40	4.08	-			
AV	2.4835G	45.81	54.00	-8.19	13.33	3	Horizontal	346	1.28	-	28.40	4.08	-			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

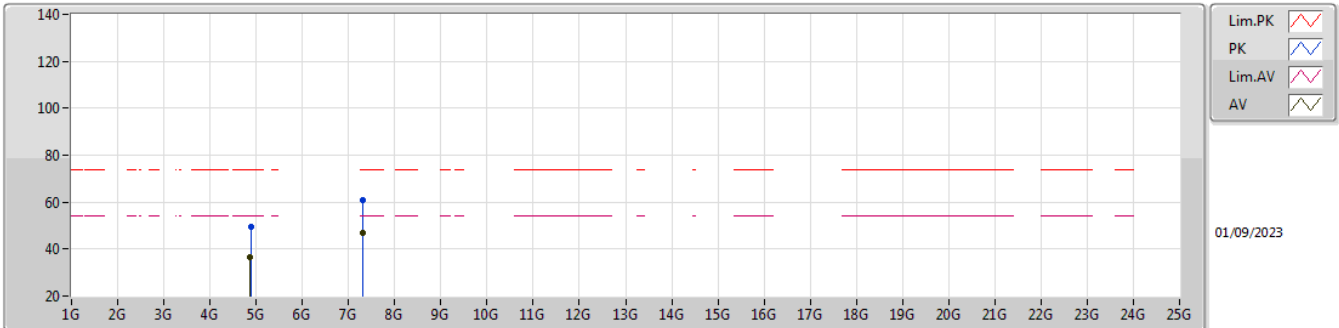


EUT_Z_1TX
Setting 63
03-E-R-7

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	4.8742G	51.37	74.00	-22.63	46.01	3	Vertical	263	1.00	-	33.55	6.54	34.73			
AV	4.8744G	39.21	54.00	-14.79	33.85	3	Vertical	263	1.00	-	33.55	6.54	34.73			
PK	7.3139G	63.95	74.00	-10.05	53.80	3	Vertical	103	1.00	-	36.83	8.70	35.38			
AV	7.3147G	49.15	54.00	-4.85	39.00	3	Vertical	103	1.00	-	36.83	8.70	35.38			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

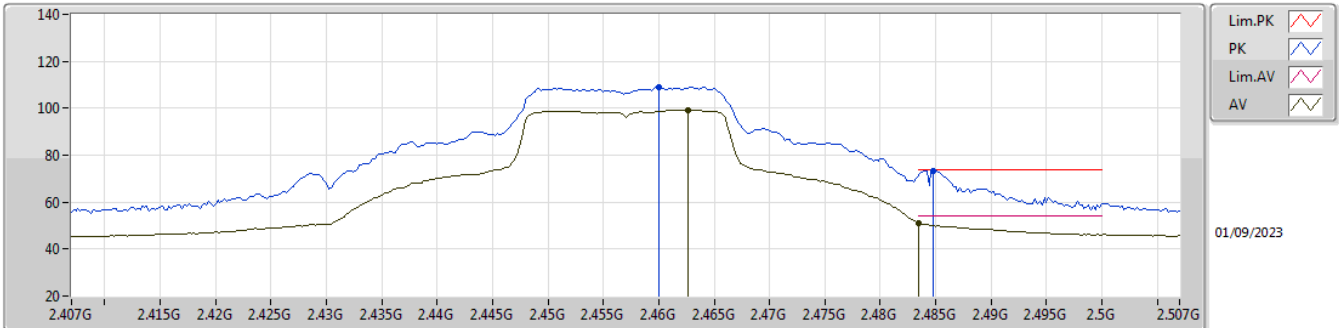


EUT_Z_1TX
Setting 63
03-E-R-7

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	4.8909G	49.27	74.00	-24.73	43.81	3	Horizontal	116	1.70	-	33.65	6.55	34.74			
AV	4.8754G	36.80	54.00	-17.20	31.44	3	Horizontal	116	1.70	-	33.55	6.54	34.73			
PK	7.3187G	60.76	74.00	-13.24	50.60	3	Horizontal	117	3.00	-	36.84	8.70	35.38			
AV	7.3145G	46.83	54.00	-7.17	36.68	3	Horizontal	117	3.00	-	36.83	8.70	35.38			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2457MHz_TX

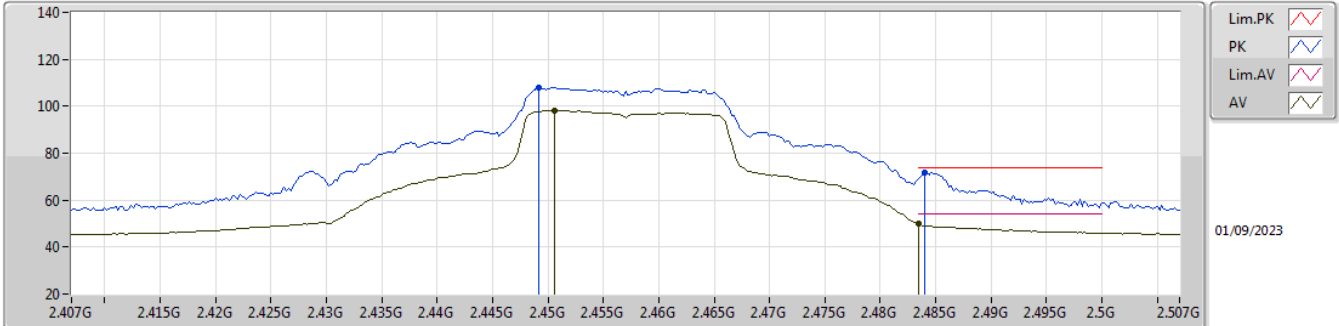


EUT_Z_1TX
Setting 63
03-C-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.46G	109.16	Inf	-Inf	76.84	3	Vertical	98	2.94	-	28.26	4.06	-				
AV	2.4626G	99.27	Inf	-Inf	66.93	3	Vertical	98	2.94	-	28.28	4.06	-				
PK	2.4848G	73.31	74.00	-0.69	40.82	3	Vertical	98	2.94	-	28.41	4.08	-				
AV	2.4835G	51.03	54.00	-2.97	18.55	3	Vertical	98	2.94	-	28.40	4.08	-				

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2457MHz_TX

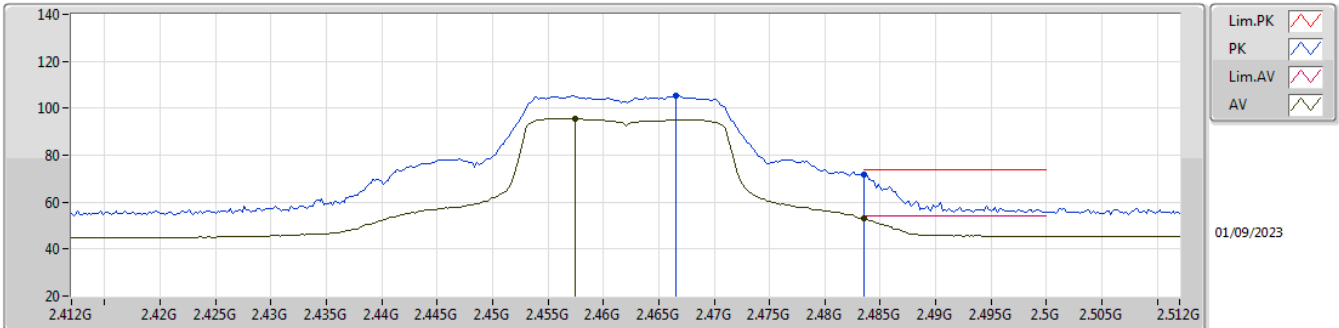


EUT_Z_1TX
Setting 63
03-C-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4492G	107.82	Inf	-Inf	75.57	3	Horizontal	355	1.00	-	28.20	4.05	-			
AV	2.4506G	98.27	Inf	-Inf	66.02	3	Horizontal	355	1.00	-	28.20	4.05	-			
PK	2.484G	71.50	74.00	-2.50	39.02	3	Horizontal	355	1.00	-	28.40	4.08	-			
AV	2.4835G	49.80	54.00	-4.20	17.32	3	Horizontal	355	1.00	-	28.40	4.08	-			

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2462MHz_TX

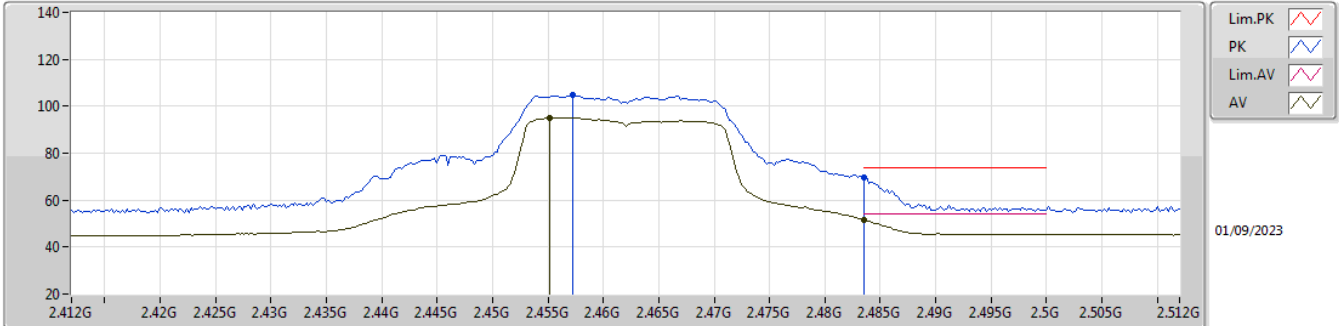


EUT_Z_1TX
Setting 55
03-E-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4666G	105.57	Inf	-Inf	73.20	3	Vertical	40	1.65	-	28.30	4.07	-			
AV	2.4574G	95.60	Inf	-Inf	63.30	3	Vertical	40	1.65	-	28.24	4.06	-			
PK	2.4835G	71.83	74.00	-2.17	39.35	3	Vertical	40	1.65	-	28.40	4.08	-			
AV	2.4835G	52.99	54.00	-1.01	20.51	3	Vertical	40	1.65	-	28.40	4.08	-			

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2462MHz_TX

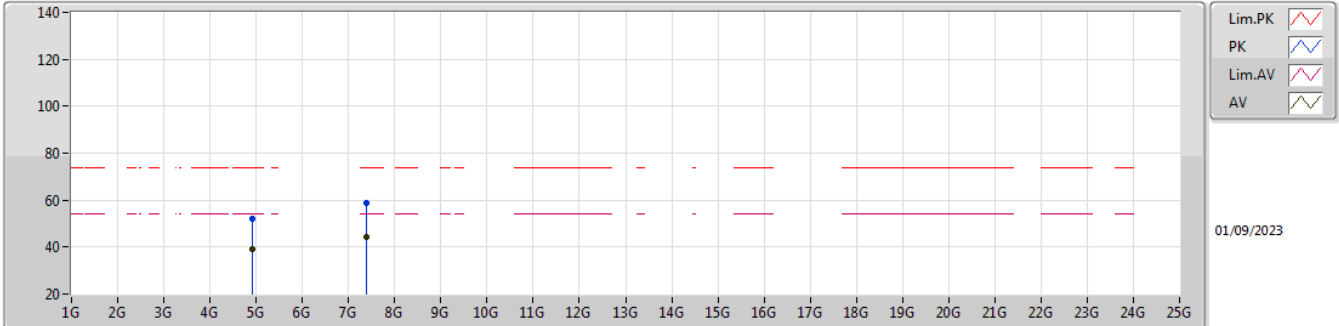


EUT_Z_1TX
Setting 55
03-E-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4572G	104.62	Inf	-Inf	72.32	3	Horizontal	356	1.00	-	28.24	4.06	-			
AV	2.4552G	95.14	Inf	-Inf	62.85	3	Horizontal	356	1.00	-	28.23	4.06	-			
PK	2.4835G	69.90	74.00	-4.10	37.42	3	Horizontal	356	1.00	-	28.40	4.08	-			
AV	2.4835G	51.75	54.00	-2.25	19.27	3	Horizontal	356	1.00	-	28.40	4.08	-			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

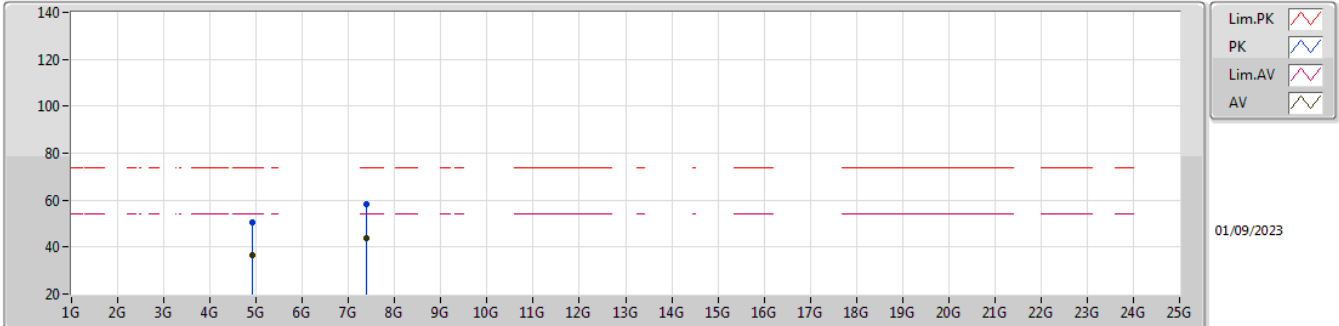


EUT_Z_1TX
Setting 55
03-E-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.92052G	52.14	74.00	-21.86	46.69	3	Vertical	270	1.09	-	33.66	6.56	34.77			
AV	4.92382G	38.91	54.00	-15.09	33.47	3	Vertical	270	1.09	-	33.65	6.56	34.77			
PK	7.3803G	59.02	74.00	-14.98	48.76	3	Vertical	114	1.12	-	36.90	8.70	35.34			
AV	7.38564G	44.32	54.00	-9.68	34.06	3	Vertical	114	1.12	-	36.90	8.70	35.34			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

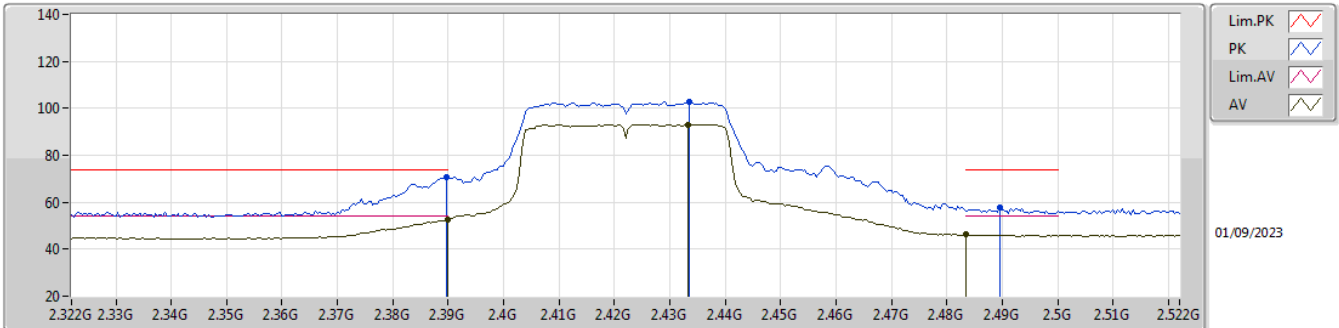


EUT_Z_1TX
Setting 55
03-E-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.92688G	50.39	74.00	-23.61	44.95	3	Horizontal	17	2.67	-	33.65	6.56	34.77			
AV	4.92448G	36.45	54.00	-17.55	31.01	3	Horizontal	17	2.67	-	33.65	6.56	34.77			
PK	7.3875G	58.05	74.00	-15.95	47.79	3	Horizontal	51	1.77	-	36.90	8.70	35.34			
AV	7.3824G	43.66	54.00	-10.34	33.40	3	Horizontal	51	1.77	-	36.90	8.70	35.34			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

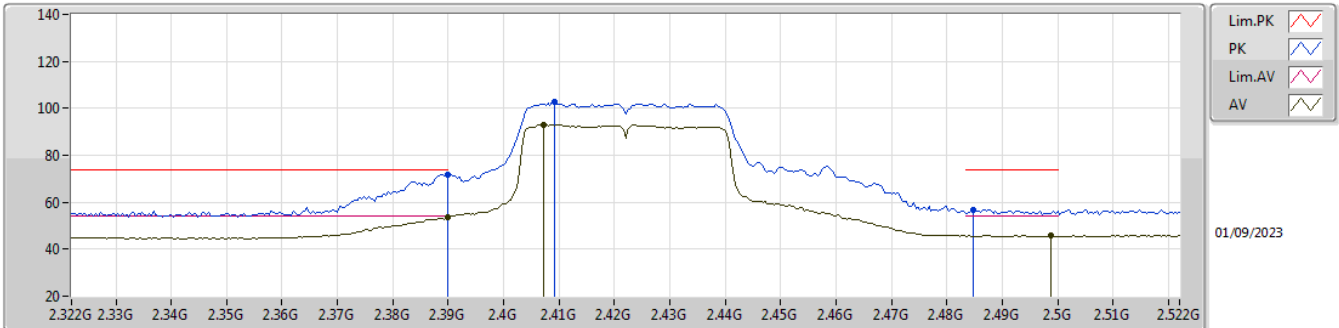


EUT_Z_1TX
Setting 53
03-C-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3896G	70.75	74.00	-3.25	38.56	3	Vertical	120	2.72	-	28.20	3.99	-			
AV	2.39G	52.55	54.00	-1.45	20.36	3	Vertical	120	2.72	-	28.20	3.99	-			
PK	2.4336G	102.80	Inf	-Inf	70.57	3	Vertical	120	2.72	-	28.20	4.03	-			
AV	2.4332G	93.13	Inf	-Inf	60.90	3	Vertical	120	2.72	-	28.20	4.03	-			
PK	2.4896G	57.91	74.00	-16.09	25.38	3	Vertical	120	2.72	-	28.44	4.09	-			
AV	2.4835G	46.15	54.00	-7.85	13.67	3	Vertical	120	2.72	-	28.40	4.08	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

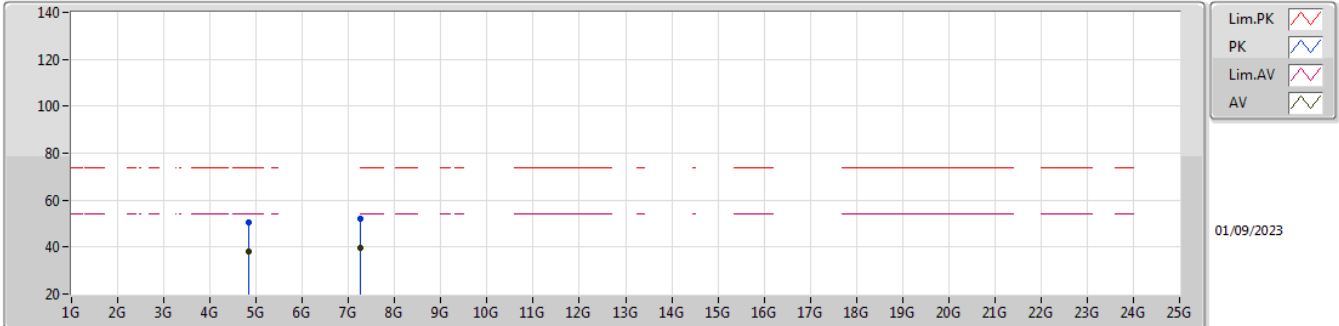


EUT_Z_1TX
Setting 53
03-C-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.39G	71.86	74.00	-2.14	39.67	3	Horizontal	344	1.00	-	28.20	3.99	-			
AV	2.39G	53.52	54.00	-0.48	21.33	3	Horizontal	344	1.00	-	28.20	3.99	-			
PK	2.4092G	102.53	Inf	-Inf	70.32	3	Horizontal	344	1.00	-	28.20	4.01	-			
AV	2.4072G	93.04	Inf	-Inf	60.83	3	Horizontal	344	1.00	-	28.20	4.01	-			
PK	2.4848G	56.77	74.00	-17.23	24.28	3	Horizontal	344	1.00	-	28.41	4.08	-			
AV	2.4988G	45.88	54.00	-8.12	13.29	3	Horizontal	344	1.00	-	28.49	4.10	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

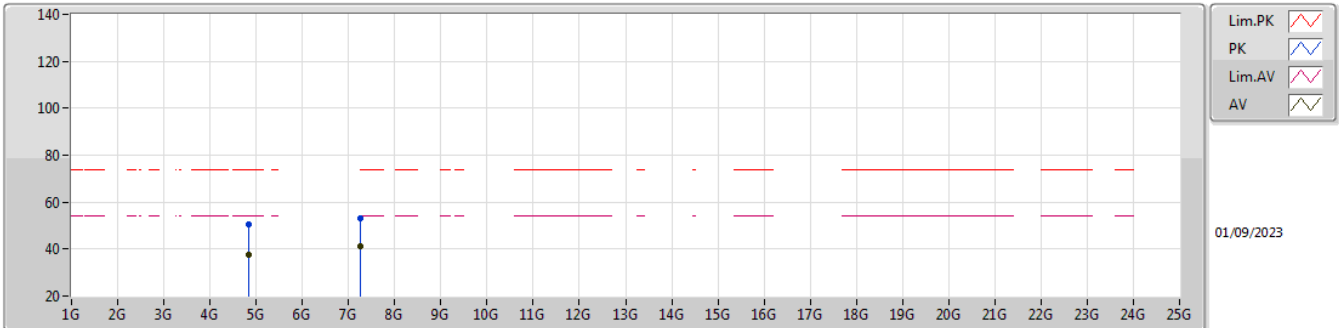


EUT_Z_1TX
Setting 53
03-C-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.84526G	50.76	74.00	-23.24	45.55	3	Vertical	267	1.00	-	33.40	6.52	34.71			
AV	4.84796G	38.19	54.00	-15.81	32.98	3	Vertical	267	1.00	-	33.40	6.52	34.71			
PK	7.25154G	52.32	74.00	-21.68	42.42	3	Vertical	83	1.02	-	36.61	8.70	35.41			
AV	7.25874G	39.79	54.00	-14.21	29.87	3	Vertical	83	1.02	-	36.63	8.70	35.41			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

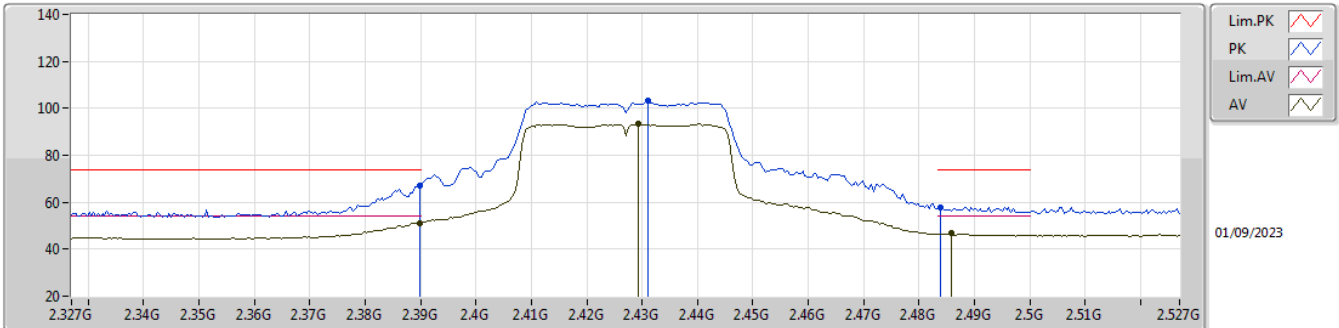


EUT_Z_1TX
Setting 53
03-C-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.84016G	50.65	74.00	-23.35	45.44	3	Horizontal	177	1.99	-	33.40	6.52	34.71			
AV	4.84352G	37.76	54.00	-16.24	32.55	3	Horizontal	177	1.99	-	33.40	6.52	34.71			
PK	7.26456G	53.19	74.00	-20.81	43.24	3	Horizontal	154	1.61	-	36.66	8.70	35.41			
AV	7.26552G	41.19	54.00	-12.81	31.24	3	Horizontal	154	1.61	-	36.66	8.70	35.41			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2427MHz_TX

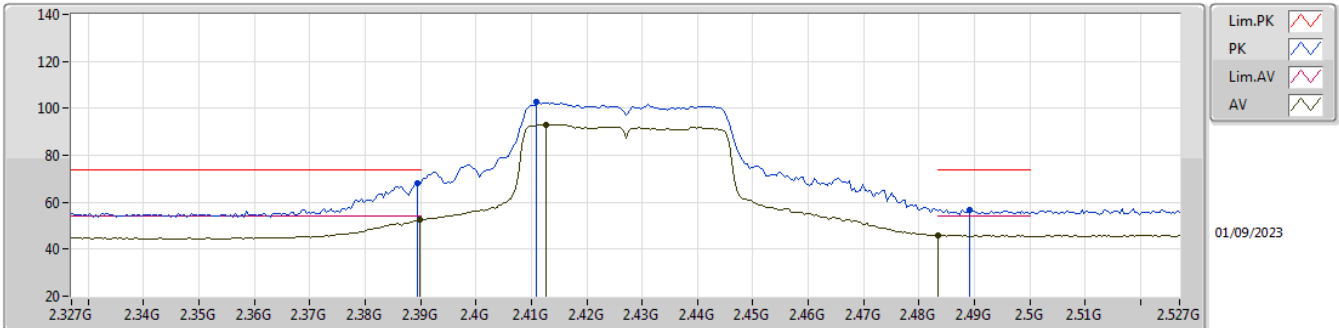


EUT_Z_1TX
Setting 53
03-C-R-7

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	67.20	74.00	-6.80	35.01	3	Vertical	119	2.71	-	28.20	3.99	-			
AV	2.3898G	51.27	54.00	-2.73	19.08	3	Vertical	119	2.71	-	28.20	3.99	-			
PK	2.431G	103.14	Inf	-Inf	70.91	3	Vertical	119	2.71	-	28.20	4.03	-			
AV	2.4294G	93.32	Inf	-Inf	61.09	3	Vertical	119	2.71	-	28.20	4.03	-			
PK	2.4838G	57.91	74.00	-16.09	25.43	3	Vertical	119	2.71	-	28.40	4.08	-			
AV	2.4858G	46.70	54.00	-7.30	14.20	3	Vertical	119	2.71	-	28.41	4.09	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2427MHz_TX

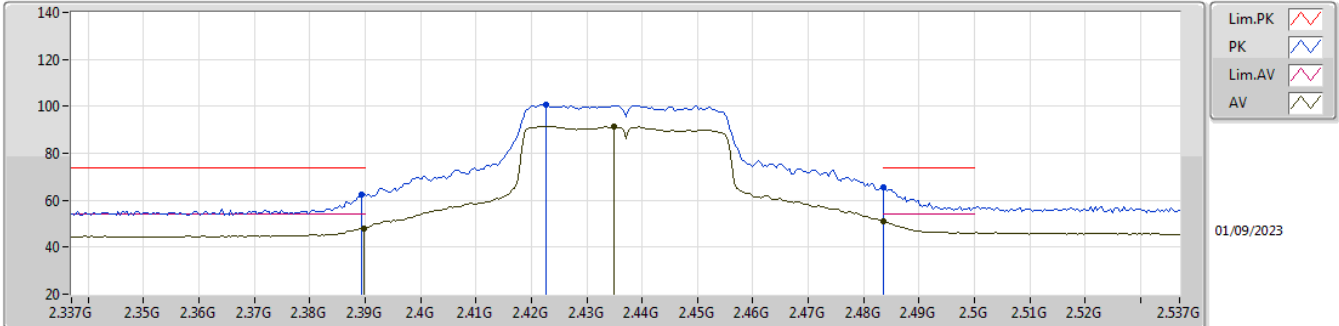


EUT_Z_1TX
Setting 53
03-C-R-7

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	68.35	74.00	-5.65	36.16	3	Horizontal	342	1.28	-	28.20	3.99	-			
AV	2.3898G	52.51	54.00	-1.49	20.32	3	Horizontal	342	1.28	-	28.20	3.99	-			
PK	2.411G	102.87	Inf	-Inf	70.66	3	Horizontal	342	1.28	-	28.20	4.01	-			
AV	2.4126G	93.14	Inf	-Inf	60.93	3	Horizontal	342	1.28	-	28.20	4.01	-			
PK	2.489G	56.80	74.00	-17.20	24.28	3	Horizontal	342	1.28	-	28.43	4.09	-			
AV	2.4835G	46.07	54.00	-7.93	13.59	3	Horizontal	342	1.28	-	28.40	4.08	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

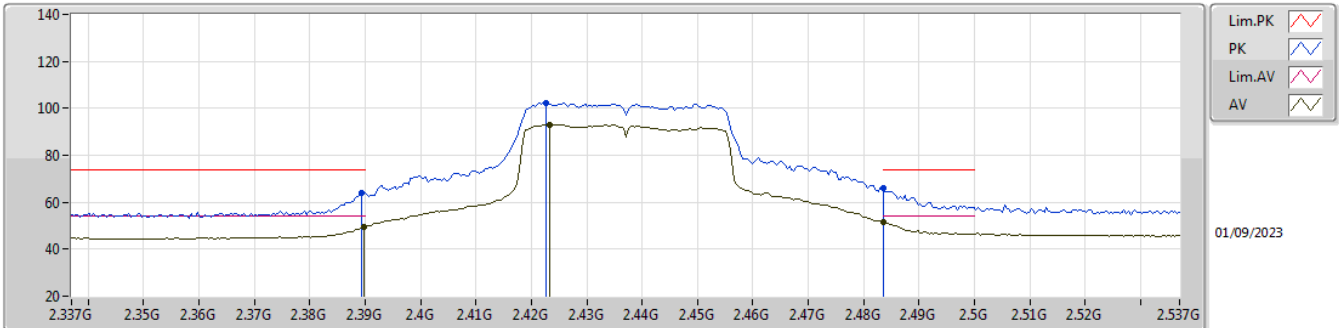


EUT_Z_1TX
Setting 56
03-C-R-7

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	62.67	74.00	-11.33	30.48	3	Vertical	117	2.41	-	28.20	3.99	-			
AV	2.3898G	48.16	54.00	-5.84	15.97	3	Vertical	117	2.41	-	28.20	3.99	-			
PK	2.4226G	100.75	Inf	-Inf	68.53	3	Vertical	117	2.41	-	28.20	4.02	-			
AV	2.435G	91.45	Inf	-Inf	59.21	3	Vertical	117	2.41	-	28.20	4.04	-			
PK	2.4835G	65.66	74.00	-8.34	33.18	3	Vertical	117	2.41	-	28.40	4.08	-			
AV	2.4835G	50.92	54.00	-3.08	18.44	3	Vertical	117	2.41	-	28.40	4.08	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

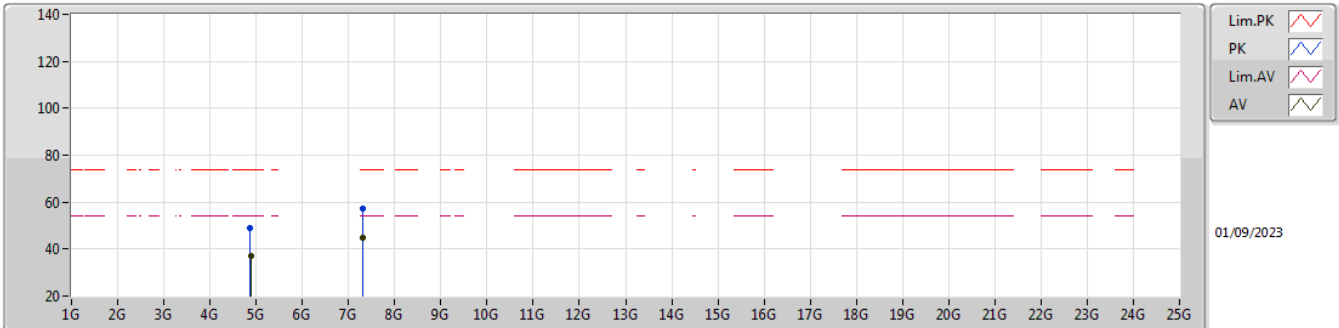


EUT_Z_1TX
Setting 56
03-C-R-7

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	64.19	74.00	-9.81	32.00	3	Horizontal	77	1.15	-	28.20	3.99	-			
AV	2.3898G	49.36	54.00	-4.64	17.17	3	Horizontal	77	1.15	-	28.20	3.99	-			
PK	2.4226G	102.27	Inf	-Inf	70.05	3	Horizontal	77	1.15	-	28.20	4.02	-			
AV	2.4234G	93.05	Inf	-Inf	60.83	3	Horizontal	77	1.15	-	28.20	4.02	-			
PK	2.4835G	65.98	74.00	-8.02	33.50	3	Horizontal	77	1.15	-	28.40	4.08	-			
AV	2.4835G	51.60	54.00	-2.40	19.12	3	Horizontal	77	1.15	-	28.40	4.08	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

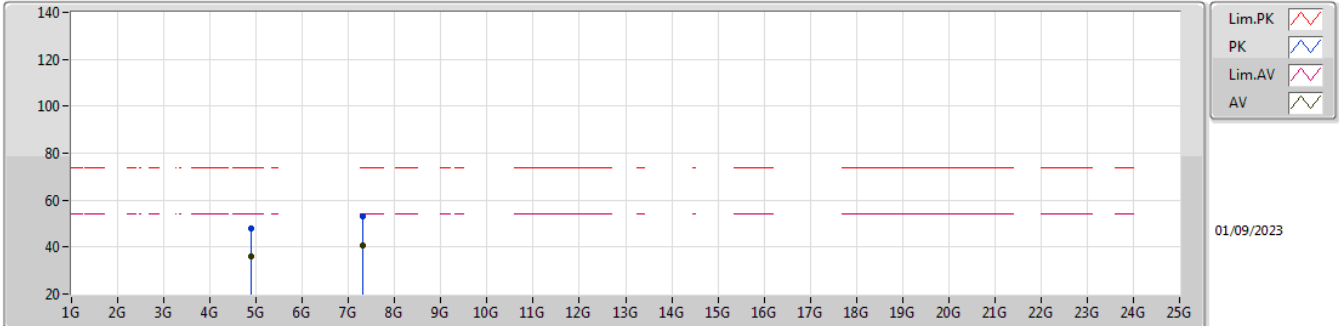


EUT_Z_1TX
Setting 56
03-C-R-7

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	48.76	74.00	-25.24	43.41	3	Vertical	144	1.78	-	33.54	6.54	34.73			
AV	4.88912G	36.89	54.00	-17.11	31.46	3	Vertical	144	1.78	-	33.63	6.54	34.74			
PK	7.32156G	57.00	74.00	-17.00	46.83	3	Vertical	115	1.00	-	36.84	8.70	35.37			
AV	7.31424G	44.83	54.00	-9.17	34.68	3	Vertical	115	1.00	-	36.83	8.70	35.38			

2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

2437MHz_TX

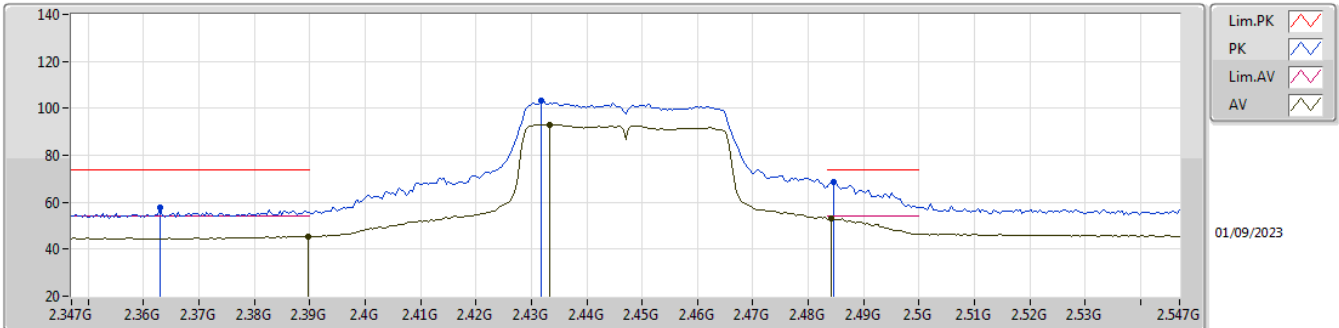


EUT_Z_1TX
Setting 56
03-C-R-7

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	4.88084G	48.06	74.00	-25.94	42.67	3	Horizontal	30	2.62	-	33.59	6.54	34.74				
AV	4.88764G	35.99	54.00	-18.01	30.56	3	Horizontal	30	2.62	-	33.63	6.54	34.74				
PK	7.31904G	53.12	74.00	-20.88	42.95	3	Horizontal	276	2.12	-	36.84	8.70	35.37				
AV	7.317G	40.93	54.00	-13.07	30.78	3	Horizontal	276	2.12	-	36.83	8.70	35.38				

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2447MHz_TX

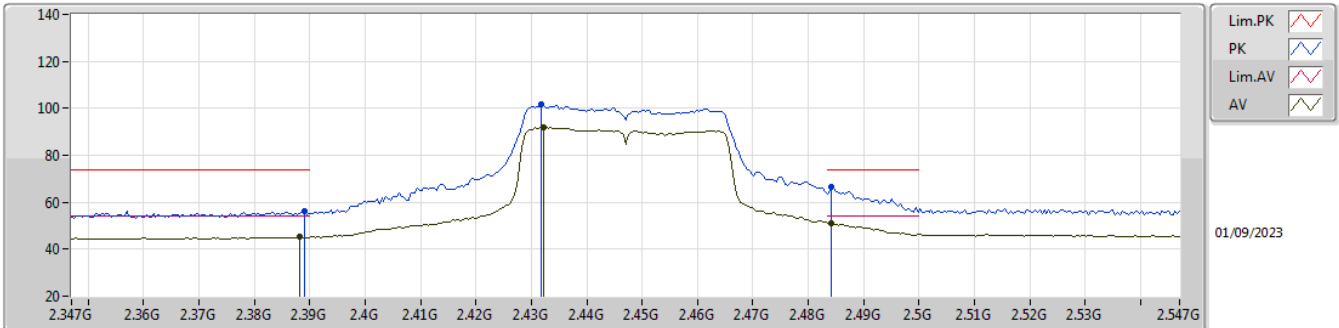


EUT_Z_1TX
Setting 52
03-C-R-7

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	2.363G	57.80	74.00	-16.20	25.64	3	Vertical	120	2.73	-	28.20	3.96	-			
AV	2.3898G	45.33	54.00	-8.67	13.14	3	Vertical	120	2.73	-	28.20	3.99	-			
PK	2.4318G	103.34	Inf	-Inf	71.11	3	Vertical	120	2.73	-	28.20	4.03	-			
AV	2.4334G	93.15	Inf	-Inf	60.92	3	Vertical	120	2.73	-	28.20	4.03	-			
PK	2.4846G	68.75	74.00	-5.25	36.26	3	Vertical	120	2.73	-	28.41	4.08	-			
AV	2.4842G	53.02	54.00	-0.98	20.53	3	Vertical	120	2.73	-	28.41	4.08	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2447MHz_TX

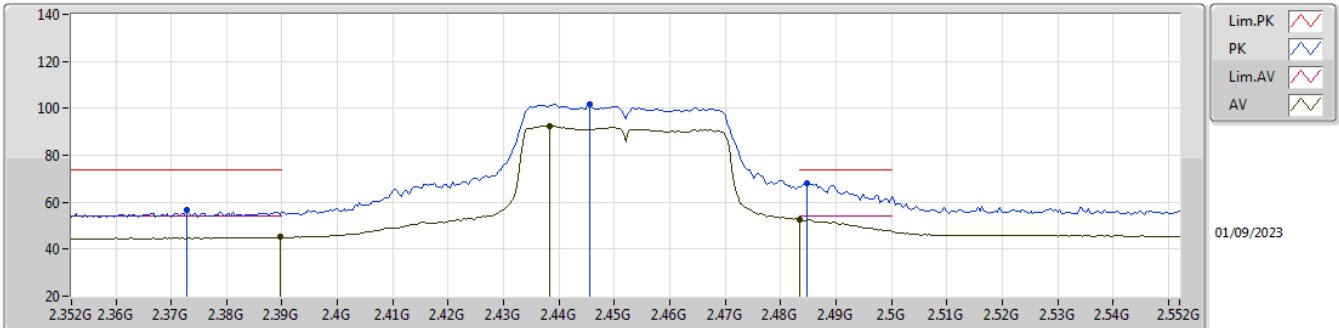


EUT_Z_1TX
Setting 52
03-C-R-7

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	56.41	74.00	-17.59	24.22	3	Horizontal	76	1.18	-	28.20	3.99	-			
AV	2.3882G	45.09	54.00	-8.91	12.90	3	Horizontal	76	1.18	-	28.20	3.99	-			
PK	2.4318G	101.95	Inf	-Inf	69.72	3	Horizontal	76	1.18	-	28.20	4.03	-			
AV	2.4322G	91.84	Inf	-Inf	59.61	3	Horizontal	76	1.18	-	28.20	4.03	-			
PK	2.4842G	66.71	74.00	-7.29	34.22	3	Horizontal	76	1.18	-	28.41	4.08	-			
AV	2.4842G	51.24	54.00	-2.76	18.75	3	Horizontal	76	1.18	-	28.41	4.08	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

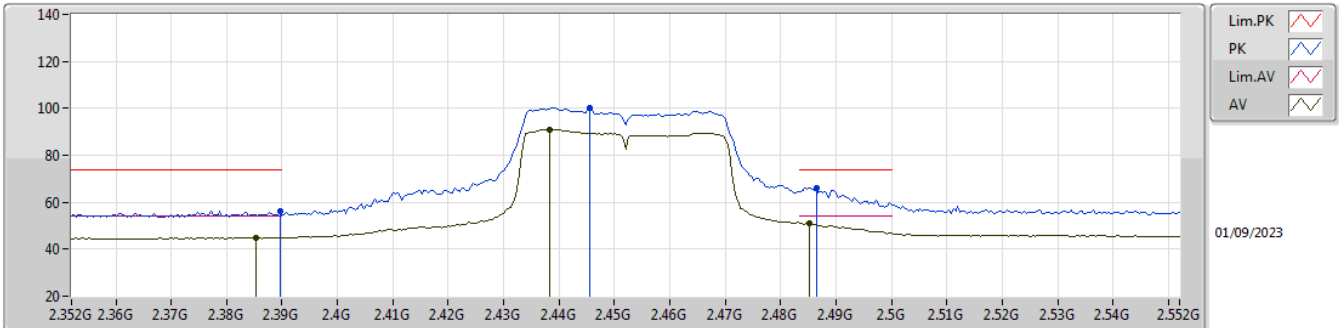


EUT_Z_1TX
Setting 51
03-C-R-7

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	2.3728G	56.78	74.00	-17.22	24.61	3	Vertical	122	2.72	-	28.20	3.97	-			
AV	2.3896G	45.17	54.00	-8.83	12.98	3	Vertical	122	2.72	-	28.20	3.99	-			
PK	2.4456G	101.96	Inf	-Inf	69.71	3	Vertical	122	2.72	-	28.20	4.05	-			
AV	2.4384G	92.36	Inf	-Inf	60.12	3	Vertical	122	2.72	-	28.20	4.04	-			
PK	2.4848G	67.94	74.00	-6.06	35.45	3	Vertical	122	2.72	-	28.41	4.08	-			
AV	2.4835G	52.57	54.00	-1.43	20.09	3	Vertical	122	2.72	-	28.40	4.08	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

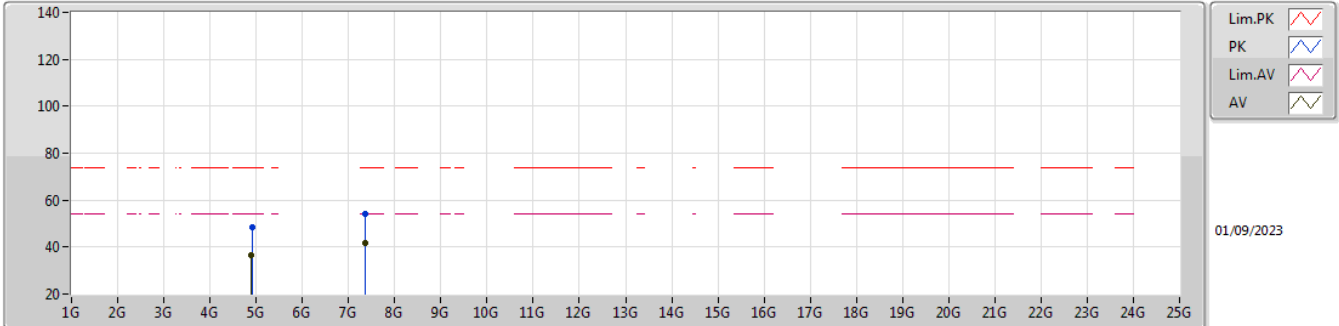


EUT_Z_1TX
Setting 51
03-C-R-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3896G	56.38	74.00	-17.62	24.19	3	Horizontal	77	1.39	-	28.20	3.99	-			
AV	2.3852G	45.00	54.00	-9.00	12.81	3	Horizontal	77	1.39	-	28.20	3.99	-			
PK	2.4456G	100.18	Inf	-Inf	67.93	3	Horizontal	77	1.39	-	28.20	4.05	-			
AV	2.4384G	91.03	Inf	-Inf	58.79	3	Horizontal	77	1.39	-	28.20	4.04	-			
PK	2.4864G	65.98	74.00	-8.02	33.47	3	Horizontal	77	1.39	-	28.42	4.09	-			
AV	2.4852G	51.22	54.00	-2.78	18.72	3	Horizontal	77	1.39	-	28.41	4.09	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

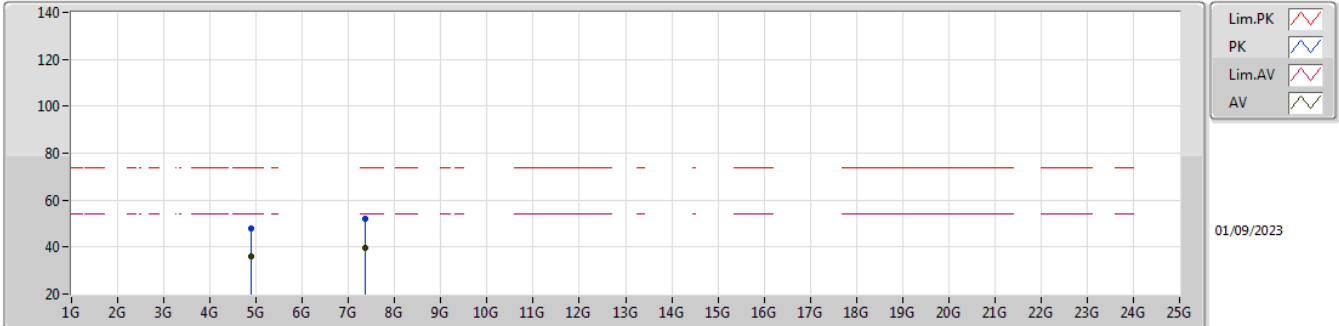


EUT_Z_1TX
Setting 51
03-C-R-7

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	4.9112G	48.70	74.00	-25.30	43.22	3	Vertical	296	2.44	-	33.68	6.56	34.76			
AV	4.89616G	36.52	54.00	-17.48	31.04	3	Vertical	296	2.44	-	33.68	6.55	34.75			
PK	7.34992G	54.30	74.00	-19.70	44.06	3	Vertical	113	1.03	-	36.90	8.70	35.36			
AV	7.36208G	41.70	54.00	-12.30	31.45	3	Vertical	113	1.03	-	36.90	8.70	35.35			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX



EUT_Z_1TX
Setting 51
03-C-R-7

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	4.8888G	48.07	74.00	-25.93	42.64	3	Horizontal	205	1.20	-	33.63	6.54	34.74			
AV	4.8868G	36.10	54.00	-17.90	30.68	3	Horizontal	205	1.20	-	33.62	6.54	34.74			
PK	7.3552G	51.87	74.00	-22.13	41.62	3	Horizontal	119	1.94	-	36.90	8.70	35.35			
AV	7.35672G	39.78	54.00	-14.22	29.53	3	Horizontal	119	1.94	-	36.90	8.70	35.35			