



RADIO TEST REPORT

FCC ID : I8811AXAP22AO
Equipment : 802.11ax (WiFi 6) Dual-Radio Outdoor PoE Access Point
Brand Name : ZYXEL
Model Name : NWA55AXE
Applicant : ZyXEL Communications Corporation
No.2 Industry East RD. IX, Hsinchu Science Park,
Hsinchu 30075, Taiwan, R.O.C
Manufacturer : ZyXEL Communications Corporation
No.2 Industry East RD. IX, Hsinchu Science Park,
Hsinchu 30075, Taiwan, R.O.C
Standard : 47 CFR FCC Part 15.247

The product was received on Apr. 06, 2021, and testing was started from Apr. 06, 2021 and completed on Aug. 12, 2021. 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	-
Note: Reference to Sporton Project No.: 0D1029.				

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

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

Reviewed by: Sam Chen

Report Producer: Wendy Pan



1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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



1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	MAG.LAYERS	EDA-1613-25GR2-A1	Dipole	Reversed-SMA	Note 1
2	2	MAG.LAYERS	EDA-1613-25GR2-A1	Dipole	Reversed-SMA	

Note 1:

Ant.	Port	Gain (dBi)				
		2.4GHz	5GHz Band 1	5GHz Band 2	5GHz Band 3	5GHz Band 4
1	1	3.74	4.42	4.24	4.24	4.58
2	2	3.74	4.42	4.24	4.24	4.58

Note 2: The above information was declared by manufacturer.

For WLAN 2.4GHz function:**For IEEE 802.11b/g/n/VHT/ax mode (2TX/2RX):**

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

Port 1 and Port 2 could transmit/receive simultaneously.

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.98	0.09	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.871	0.6	1.4m	1k
802.11ax HEW20	0.841	0.75	1.035m	1k
802.11ax HEW40	0.735	1.34	555u	3k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	For IEEE 802.11n/ax/VHT in 2.4GHz and IEEE 802.11n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	MT7915 QA 0.0.2.29			

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Paul Chen	25.1~26.9 / 65~69	Apr. 06, 2021 ~ Aug. 07, 2021
Radiated<1GHz	10CH01-CB	Zack Kuo	24~26 / 55~57	Aug. 02, 2021
Radiated>1GHz	03CH01-CB	Kevin Huang	24.3-25.4 / 55-58	Jul. 27, 2021 ~ Aug. 12, 2021
	03CH02-CB		24.8-25.9 / 55-58	Jul. 27, 2021 ~ Aug. 12, 2021
	03CH04-CB		23.5-24.6 / 55-59	Jul. 27, 2021 ~ Aug. 12, 2021
Radiated Co-Location	03CH05-CB	Kevin Huang	24.6-25.7 / 55-59	Jul. 27, 2021 ~ Aug. 12, 2021
AC Conduction	CO02-CB	Ryo Fan	21~23 / 61~62	Jul. 29, 2021



1.4 Measurement Uncertainty

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

Test Date: Before May 08, 2021

Test Items	Uncertainty	Remark
Conducted Emission	2.8 dB	Confidence levels of 95%
Output Power Measurement	1.4 dB	Confidence levels of 95%

Test Date: After May 07, 2021

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	17.5
2417MHz	17.5
2437MHz	18.5
2457MHz	18
2462MHz	17
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	15
2417MHz	17
2437MHz	19.5
2457MHz	16.5
2462MHz	15
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	14.5
2417MHz	16.5
2437MHz	19.5
2457MHz	16
2462MHz	14.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	14.5
2417MHz	16.5
2437MHz	19.5
2457MHz	16
2462MHz	14.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	12.5
2427MHz	13.5
2437MHz	14.5
2447MHz	13
2452MHz	13
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	12.5
2427MHz	13.5
2437MHz	14.5
2447MHz	13
2452MHz	13



Note:

- ♦ Evaluated HEW20/HEW40 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.
- ♦ The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

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 + PoE

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
1	EUT + PoE
Operating Mode > 1GHz	CTX

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA0D1029-01 for Co-location RF Exposure Evaluation.	

Note: The EUT can only be used at Y axis.



2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
PoE	GOSPELL	G0720-480-050	INPUT: 100-240V ~ 50/60Hz, 0.75A MAX OUTPUT: 48V, 0.5A
Other			
Power cable*1: Non-shielded, 0.6m			

2.5 Support Equipment

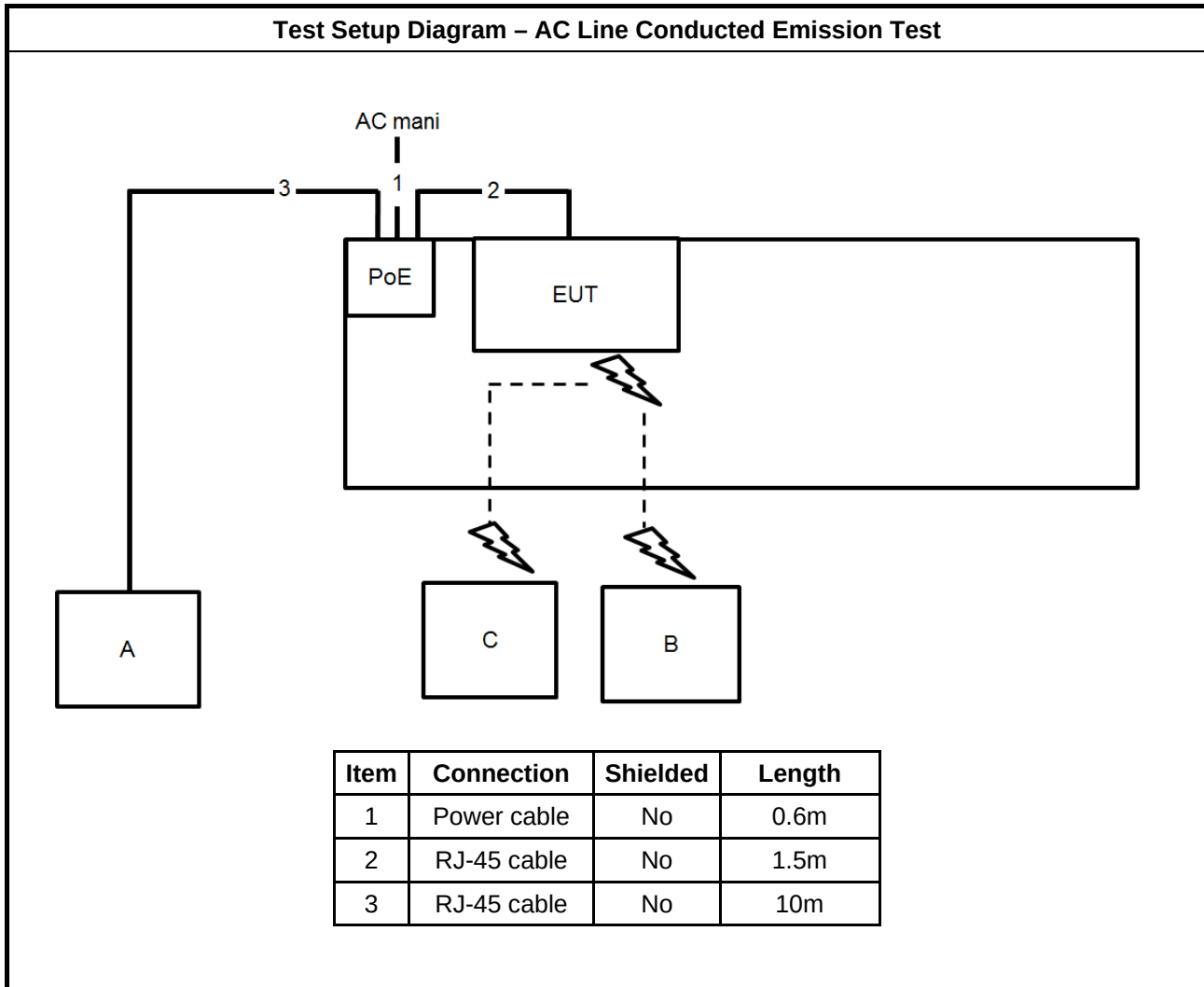
For AC Conduction and Radiated (below 1GHz):

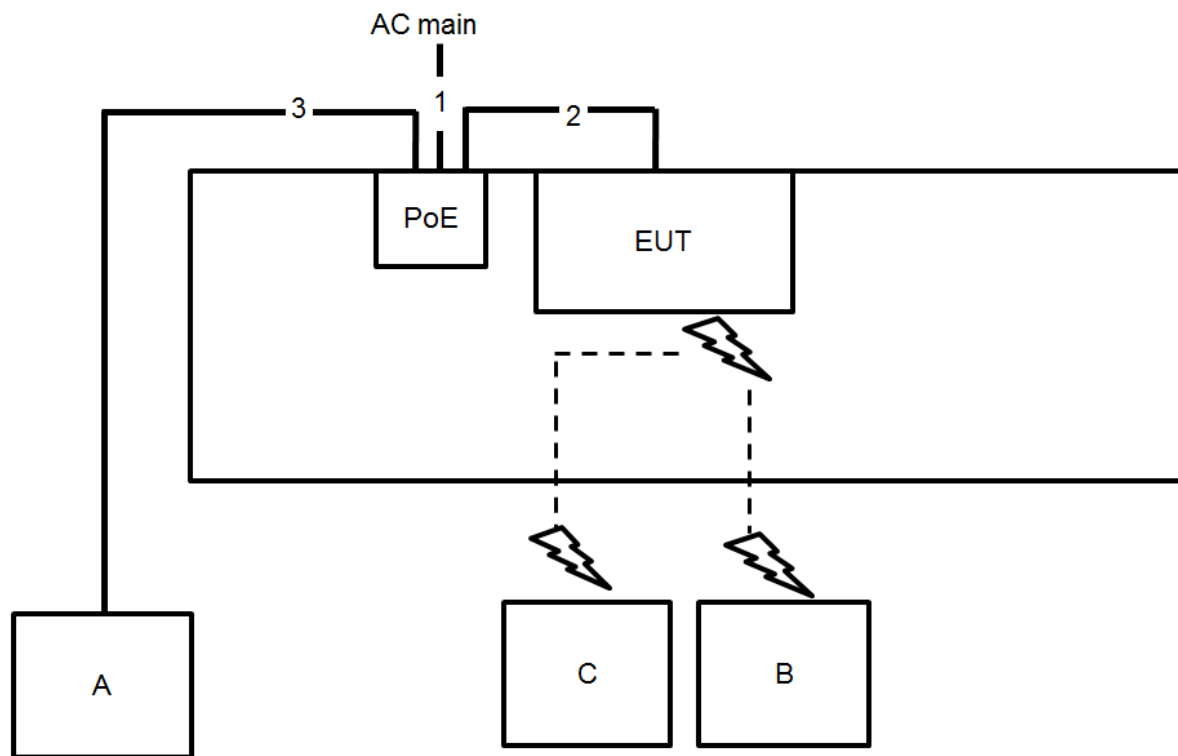
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	2.4G NB	DELL	E6430	N/A
C	5G NB	DELL	E6430	N/A

For Radiated (above 1GHz) and RF Conducted:

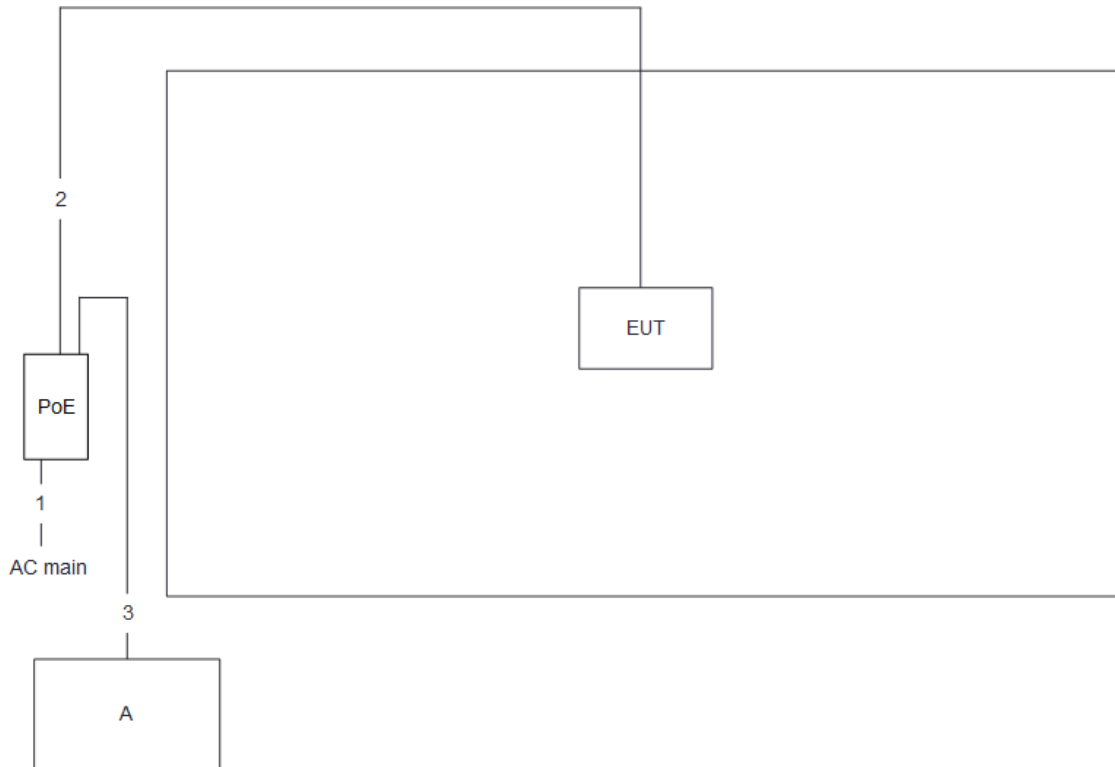
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	0.6m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	0.6m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m



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.

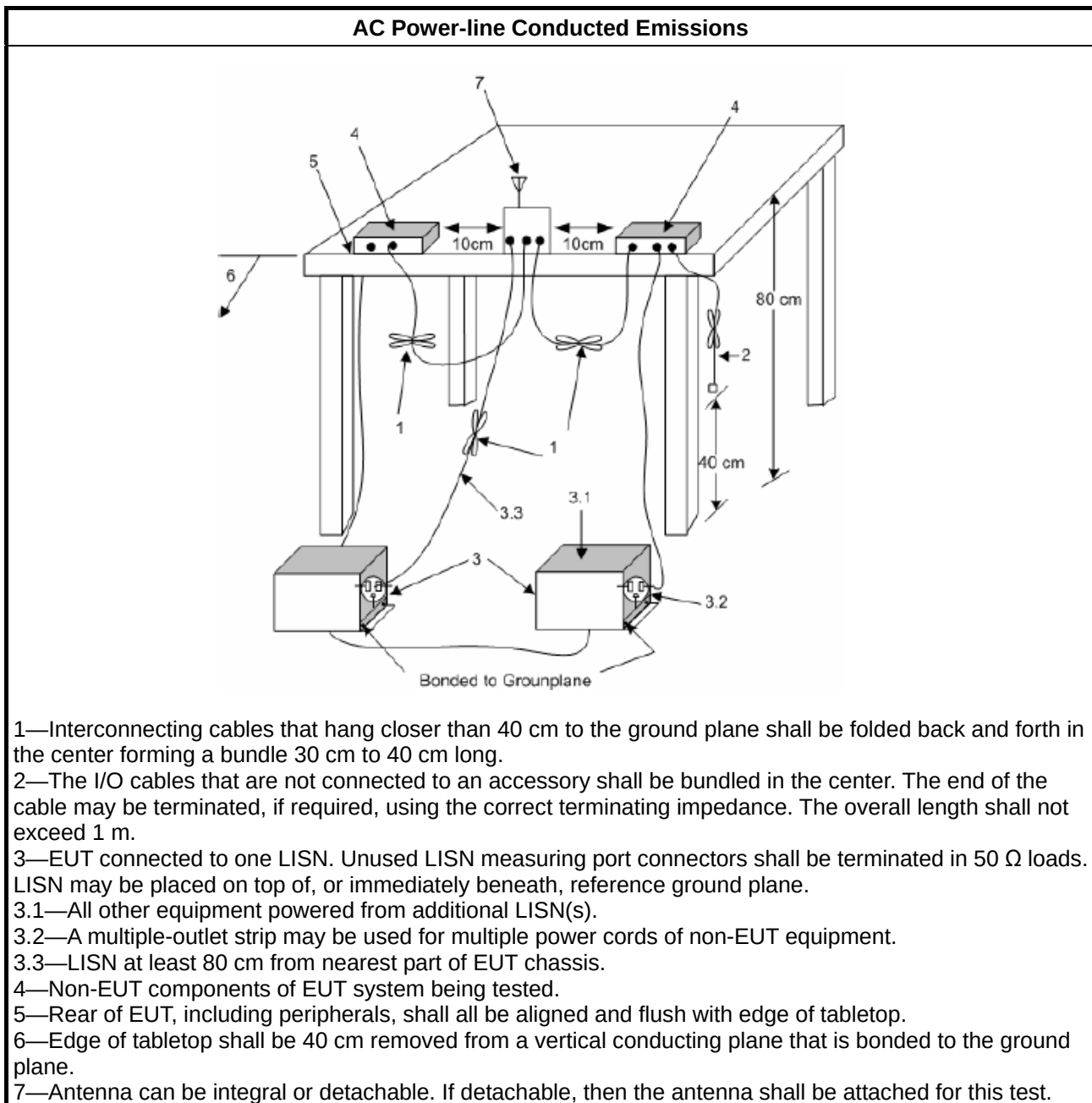
3.1.2 Measuring Instruments

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:

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

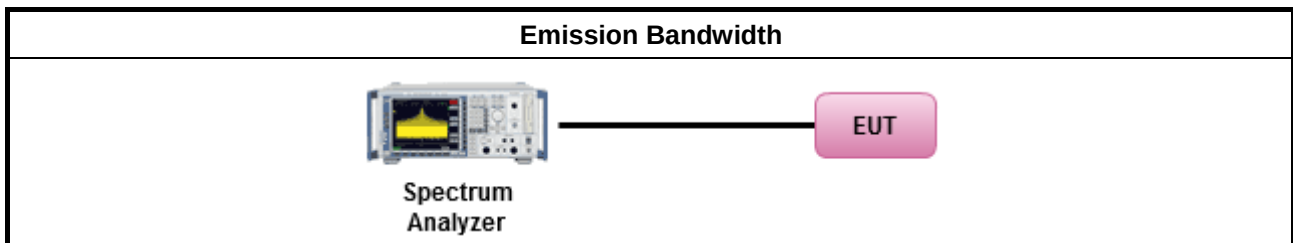
3.2.2 Measuring Instruments

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.	

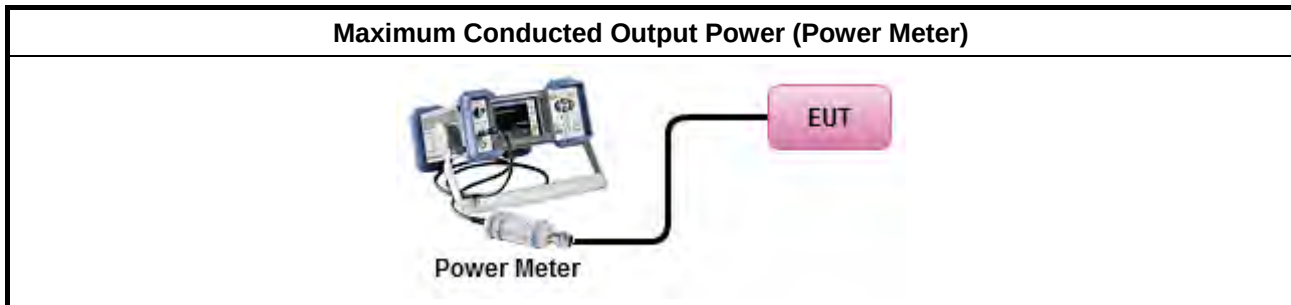
3.3.2 Measuring Instruments

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

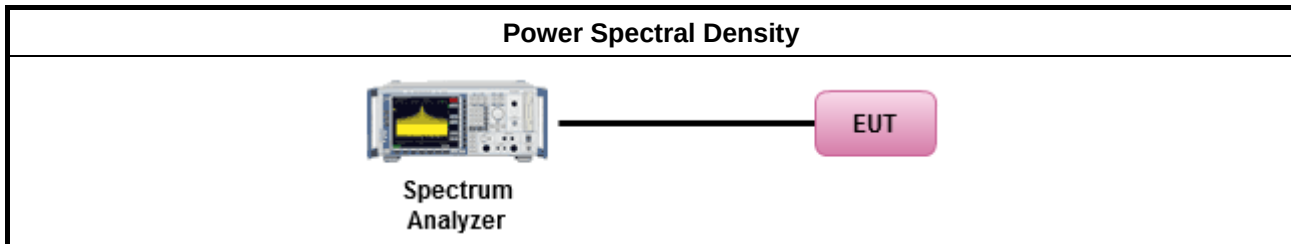
3.4.2 Measuring Instruments

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.	

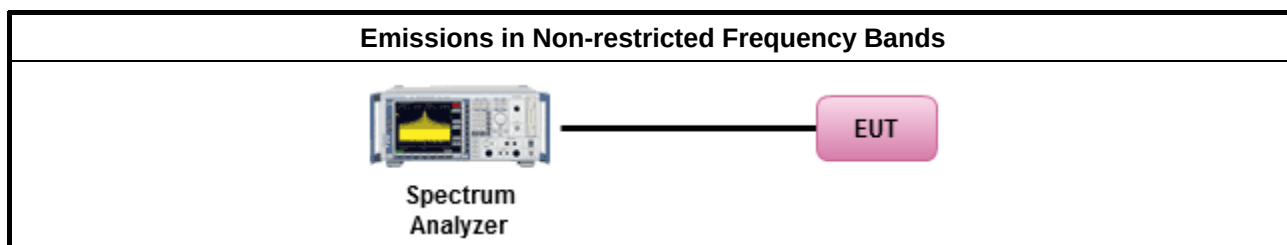
3.5.2 Measuring Instruments

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

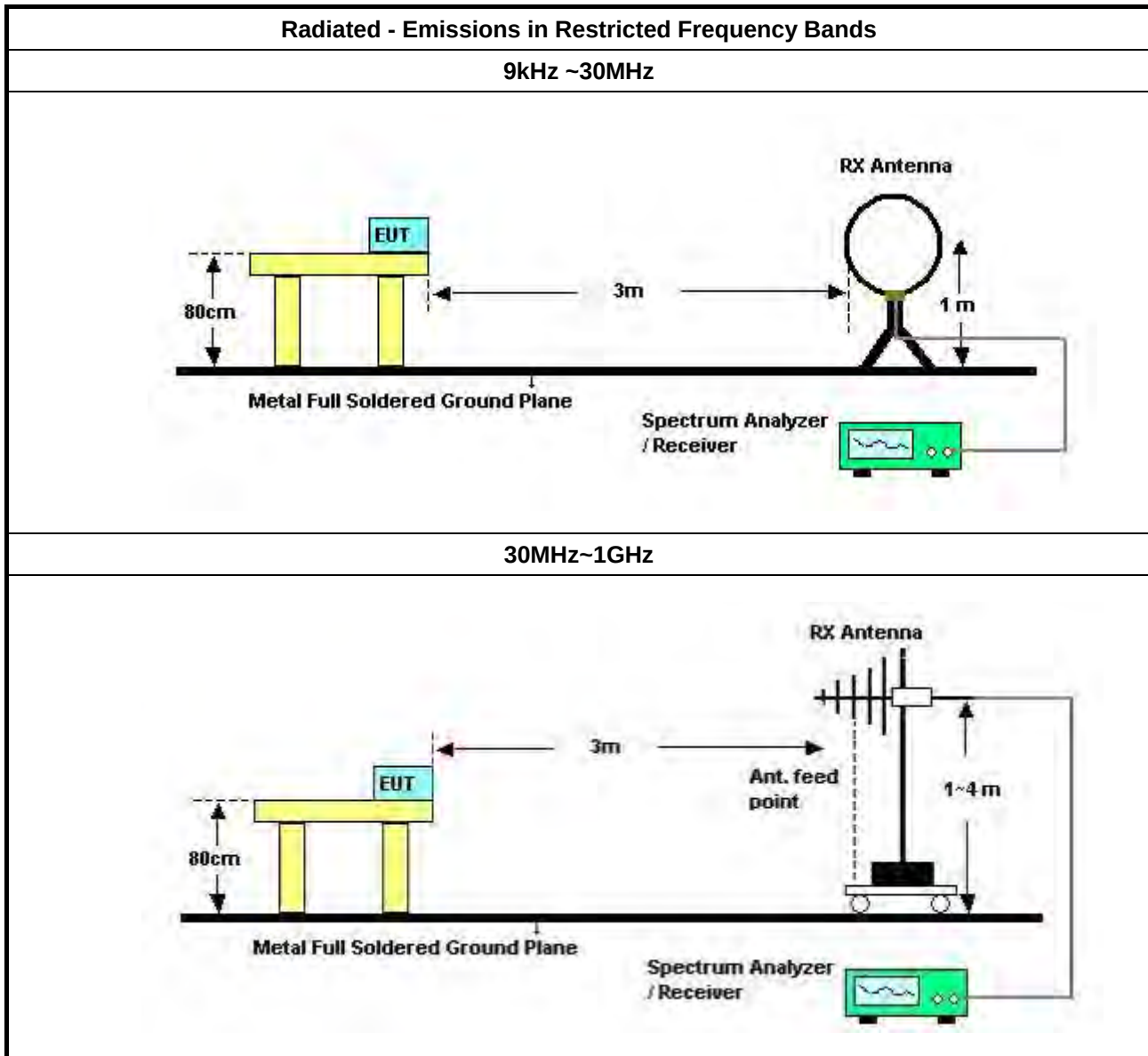
Refer a test equipment and calibration data table in this test report.

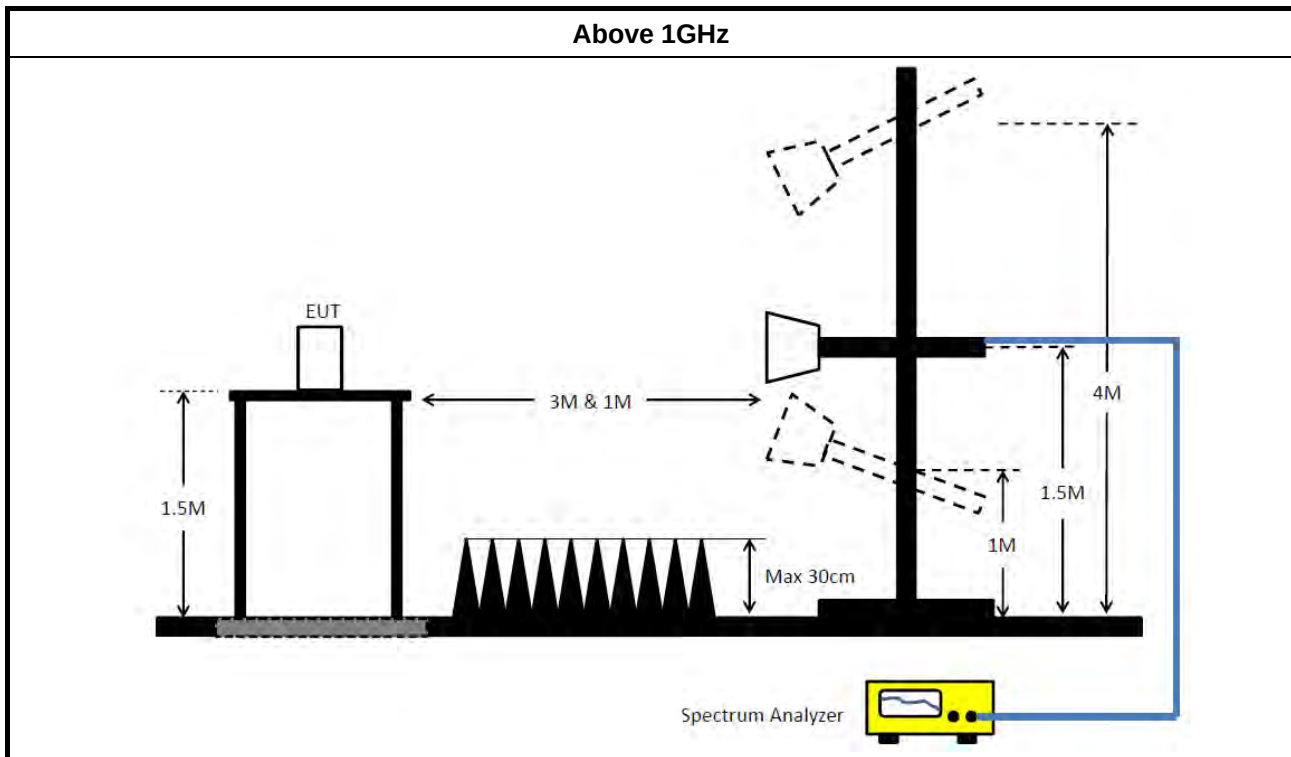


3.6.3 Test Procedures

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
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Dec. 04, 2020	Dec. 03, 2021	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 20, 2020	Nov. 19, 2021	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 05, 2021	May 04, 2022	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 20, 2020	Oct. 19, 2021	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
10m Semi Anechoic Chamber NSA	TDK	SAC-10M	10CH01-CB	30MHz~1GHz 10m,3m	Jan. 28, 2021	Jan. 27, 2022	Radiation (10CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 11, 2021	Mar. 10, 2022	Radiation (10CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10784	9kHz ~ 1.3GHz	Mar. 11, 2021	Mar. 10, 2022	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 20, 2020	Oct. 19, 2021	Radiation (10CH01-CB)
High Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 20, 2020	Oct. 19, 2021	Radiation (10CH01-CB)
Bilog Antenna with 6dB Attenuator	Chase & EMCI	CBL6111A &N-6-06	1543 &AT-N0609	30MHz ~ 1GHz	Jul. 01, 2021	Jun. 30, 2022	Radiation (10CH01-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 05, 2021	May 04, 2022	Radiation (10CH01-CB)
Spectrum Analyzer	Rohde&Schwarz	FSV30	101026	9kHz ~ 30GHz	Mar. 08, 2021	Mar. 07, 2022	Radiation (10CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (10CH01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (10CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 07, 2021	May 06, 2022	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2020	Nov. 05, 2021	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 20, 2021	May 19, 2022	Radiation (03CH01-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun.15, 2021	Jun. 14, 2022	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 03, 2021	May 02, 2022	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz 3m	Mar. 27, 2021	Mar. 26, 2022	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	May 04, 2021	May 03, 2022	Radiation (03CH02-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH02-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun.15, 2021	Jun. 14, 2022	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 15, 2020	Oct. 14, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 25, 2021	Feb. 24, 2022	Radiation (03CH04-CB)
Horn Antenna	ETS • Lindgren	3115	00143147	750MHz~18GHz	Oct. 23, 2020	Oct. 22, 2021	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH04-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun.15, 2021	Jun. 14, 2022	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Feb. 19, 2021	Feb. 18, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Nov. 05, 2020	Nov. 04, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 08, 2020	Nov. 07, 2021	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Sep. 05, 2020	Sep. 04, 2021	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH05-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun.15, 2021	Jun. 14, 2022	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 27, 2020	Jul. 26, 2021	Conducted (TH02-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 02, 2021	Aug. 01, 2022	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	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

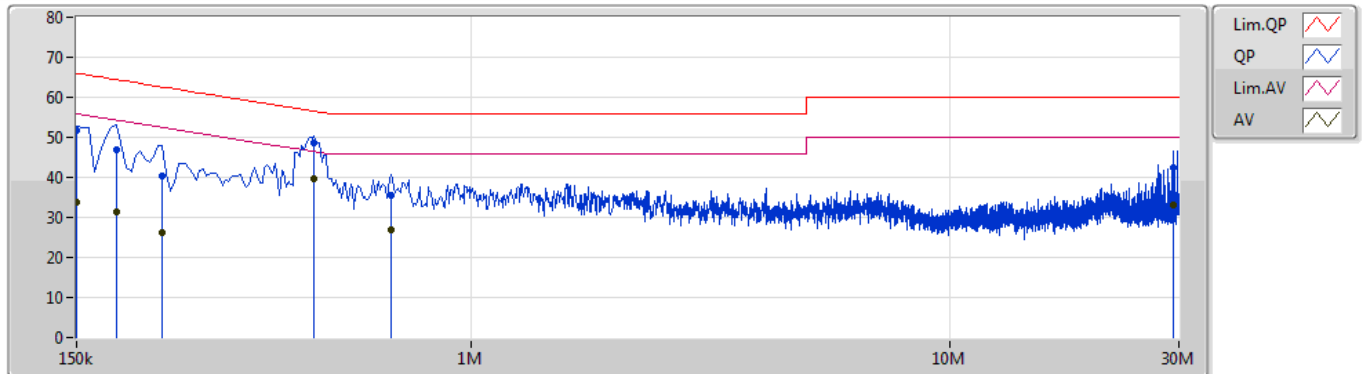
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	469.5k	39.80	46.52	-6.72	Line

Mode 1

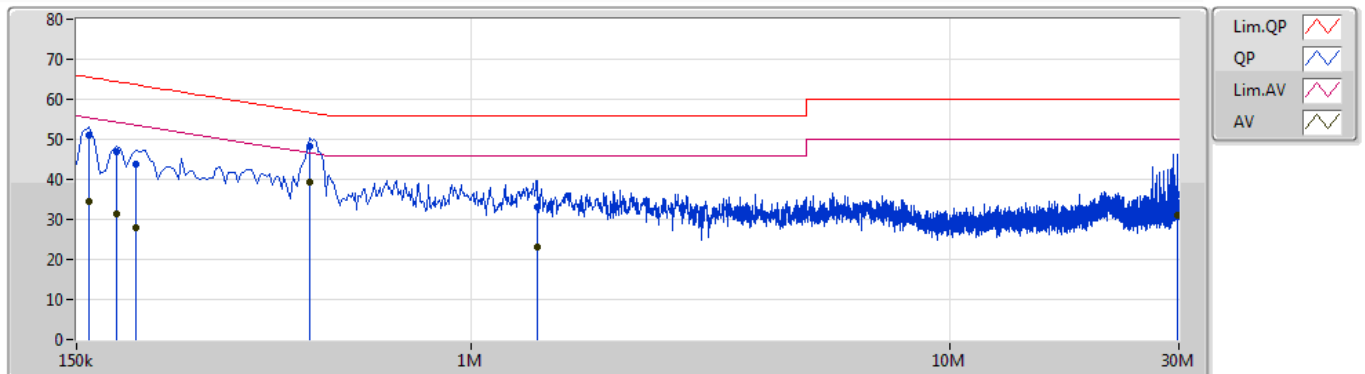
29/07/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	51.76	66.00	-14.24	10.29	Line	-	41.47	0.07	0.07	10.15			
AV	150k	33.94	56.00	-22.06	10.29	Line	-	23.65	0.07	0.07	10.15			
QP	181.5k	47.01	64.41	-17.40	10.30	Line	-	36.71	0.07	0.07	10.16			
AV	181.5k	31.31	54.41	-23.10	10.30	Line	-	21.01	0.07	0.07	10.16			
QP	226.5k	40.48	62.58	-22.10	10.29	Line	-	30.19	0.07	0.07	10.15			
AV	226.5k	26.23	52.58	-26.35	10.29	Line	-	15.94	0.07	0.07	10.15			
QP	469.5k	48.64	56.52	-7.88	10.25	Line	-	38.39	0.08	0.06	10.11			
AV	469.5k	39.80	46.52	-6.72	10.25	Line	"Worst"	29.55	0.08	0.06	10.11			
QP	681k	35.58	56.00	-20.42	10.26	Line	-	25.32	0.09	0.07	10.10			
AV	681k	26.88	46.00	-19.12	10.26	Line	-	16.62	0.09	0.07	10.10			
QP	29.211M	42.34	60.00	-17.66	11.11	Line	-	31.23	0.63	0.29	10.19			
AV	29.211M	33.16	50.00	-16.84	11.11	Line	-	22.05	0.63	0.29	10.19			

Mode 1

29/07/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	159k	51.13	65.52	-14.39	10.28	Neutral	-	40.85	0.06	0.07	10.15			
AV	159k	34.49	55.52	-21.03	10.28	Neutral	-	24.21	0.06	0.07	10.15			
QP	181.5k	47.05	64.41	-17.36	10.29	Neutral	-	36.76	0.06	0.07	10.16			
AV	181.5k	31.25	54.41	-23.16	10.29	Neutral	-	20.96	0.06	0.07	10.16			
QP	199.5k	43.75	63.63	-19.88	10.29	Neutral	-	33.46	0.06	0.07	10.16			
AV	199.5k	27.99	53.63	-25.64	10.29	Neutral	-	17.70	0.06	0.07	10.16			
QP	460.5k	48.41	56.69	-8.28	10.23	Neutral	-	38.18	0.06	0.06	10.11			
AV	460.5k	39.23	46.69	-7.46	10.23	Neutral	"Worst"	29.00	0.06	0.06	10.11			
QP	1.37M	33.15	56.00	-22.85	10.28	Neutral	-	22.87	0.08	0.09	10.11			
AV	1.37M	22.95	46.00	-23.05	10.28	Neutral	-	12.67	0.08	0.09	10.11			
QP	29.76M	36.28	60.00	-23.72	10.88	Neutral	-	25.40	0.40	0.29	10.19			
AV	29.76M	30.88	50.00	-19.12	10.88	Neutral	-	20.00	0.40	0.29	10.19			

Summary

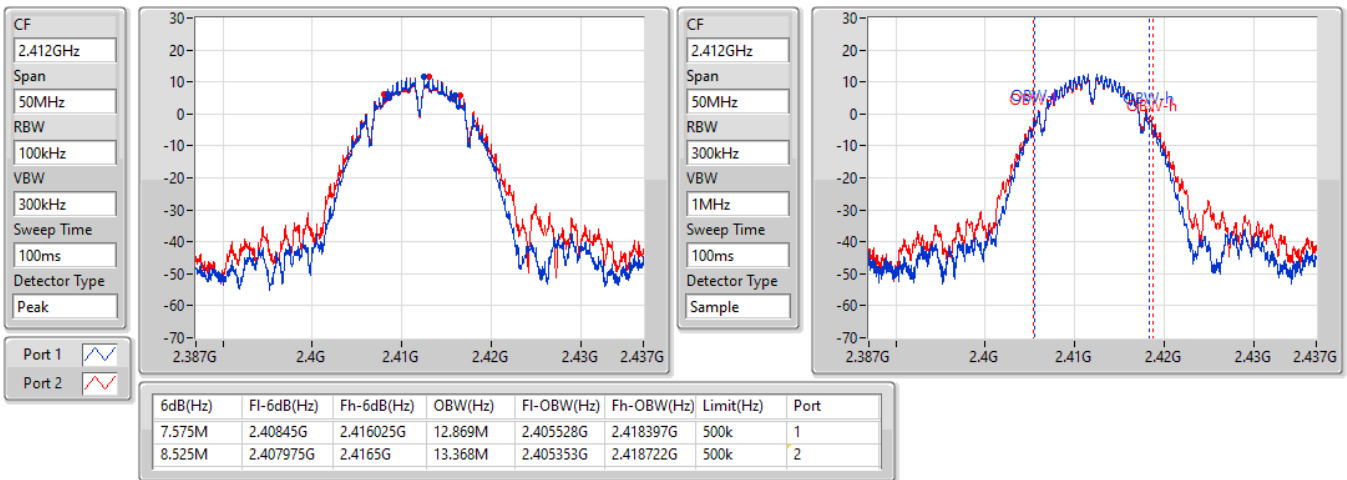
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					(Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.575M	14.343M	14M3G1D	7.575M	12.869M
802.11g_Nss1,(6Mbps)_2TX	15.65M	20.09M	20M1D1D	15M	16.467M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.1M	20.915M	20M9D1D	16.325M	18.841M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.65M	37.931M	37M9D1D	35.1M	37.731M

Result

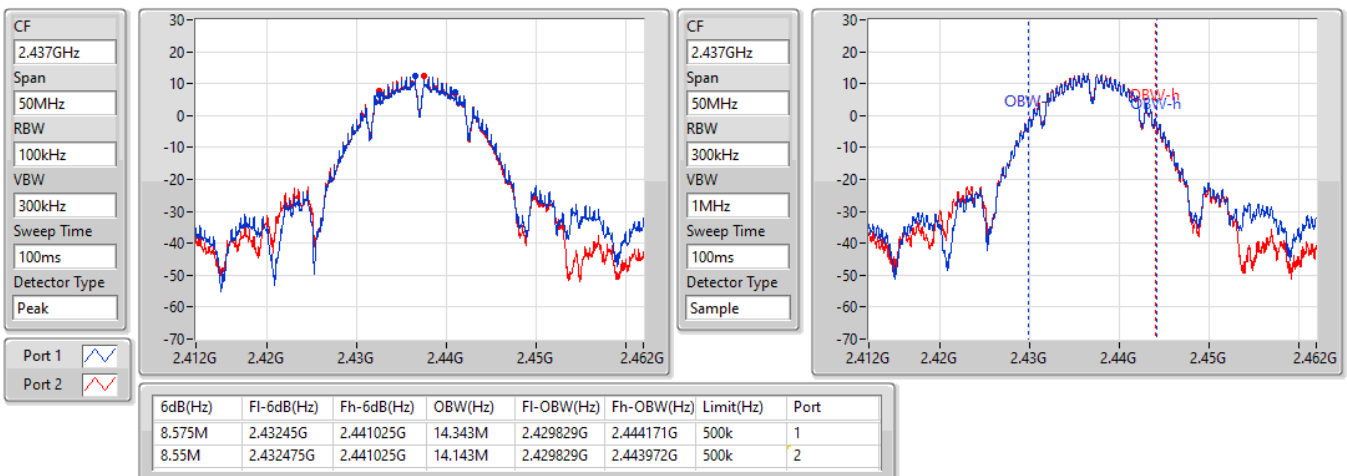
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802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.575M	12.869M	8.525M	13.368M
2437MHz	Pass	500k	8.575M	14.343M	8.55M	14.143M
2462MHz	Pass	500k	8.05M	13.093M	8.025M	12.994M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15M	16.517M	15.1M	16.492M
2437MHz	Pass	500k	15.125M	20.09M	15.65M	19.69M
2462MHz	Pass	500k	15M	16.517M	15.1M	16.467M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.85M	18.841M	16.85M	18.866M
2437MHz	Pass	500k	18.1M	20.915M	16.375M	20.29M
2462MHz	Pass	500k	16.325M	18.891M	17.8M	18.966M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.4M	37.781M	35.1M	37.731M
2437MHz	Pass	500k	36.55M	37.931M	37.65M	37.781M
2452MHz	Pass	500k	36.85M	37.781M	37.6M	37.731M

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

07/08/2021


802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

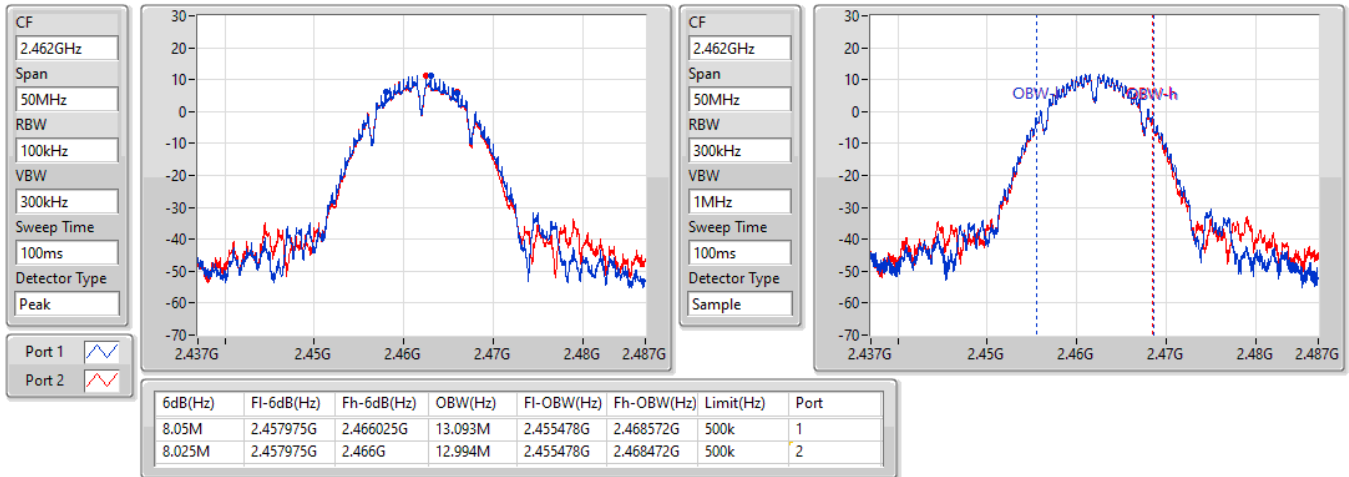
07/08/2021



802.11b_Nss1,(1Mbps)_2TX

EBW
2462MHz

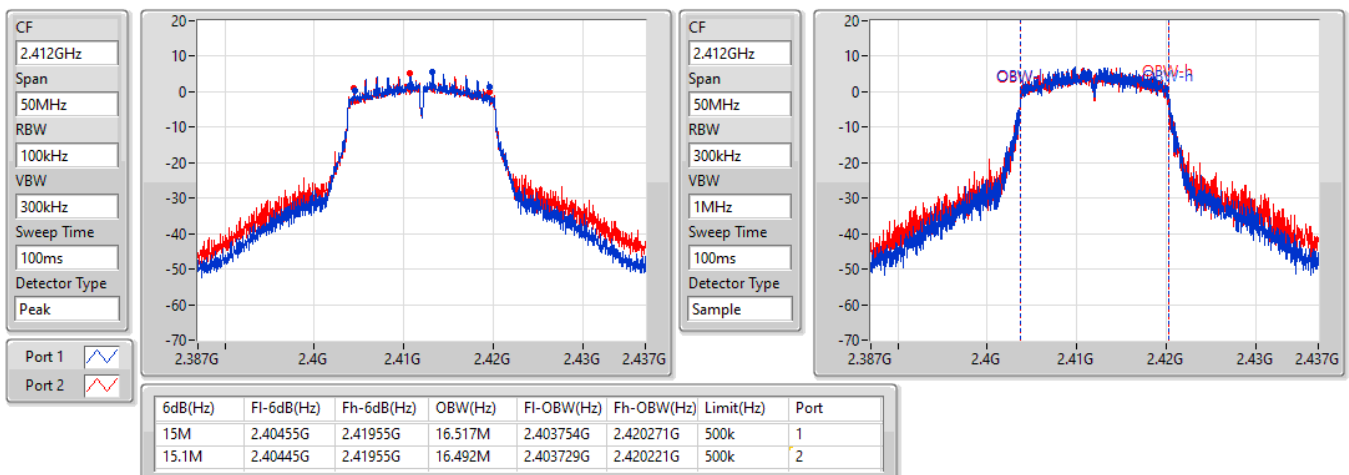
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802.11g_Nss1,(6Mbps)_2TX

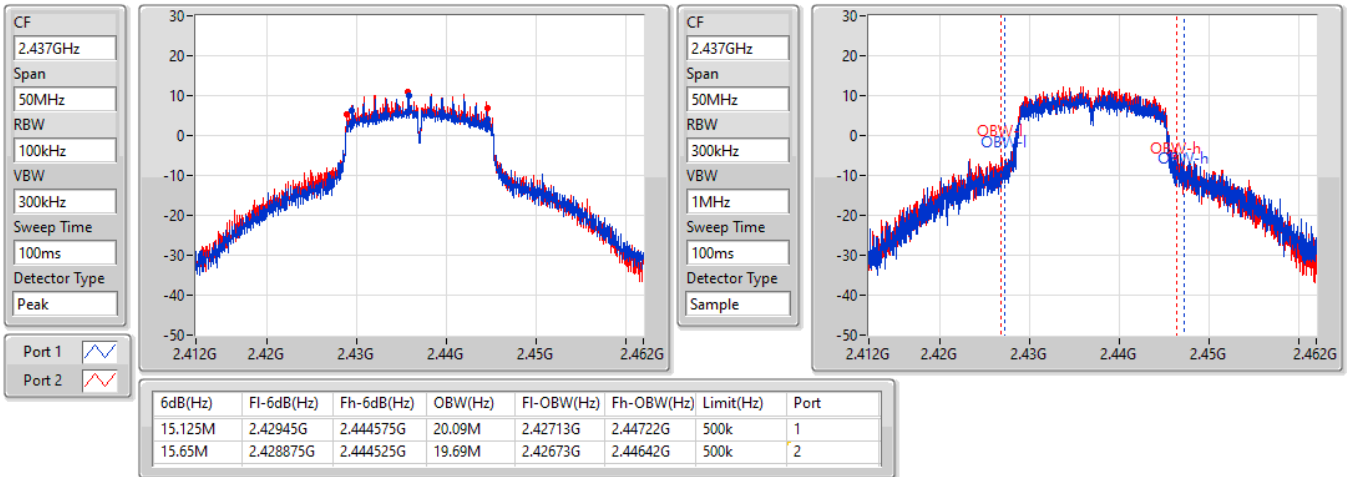
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2412MHz

07/08/2021

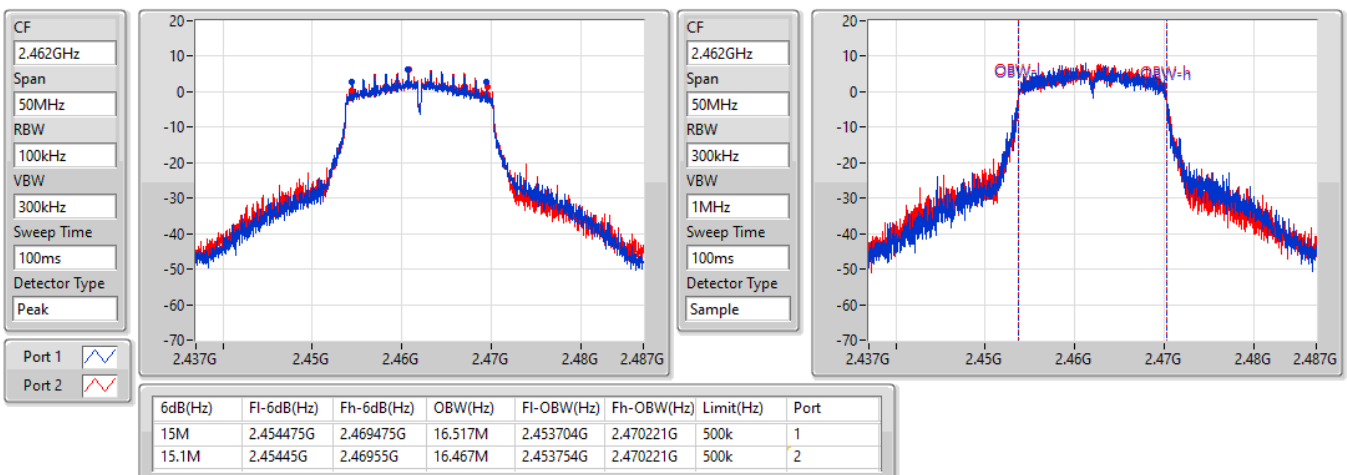


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07/08/2021

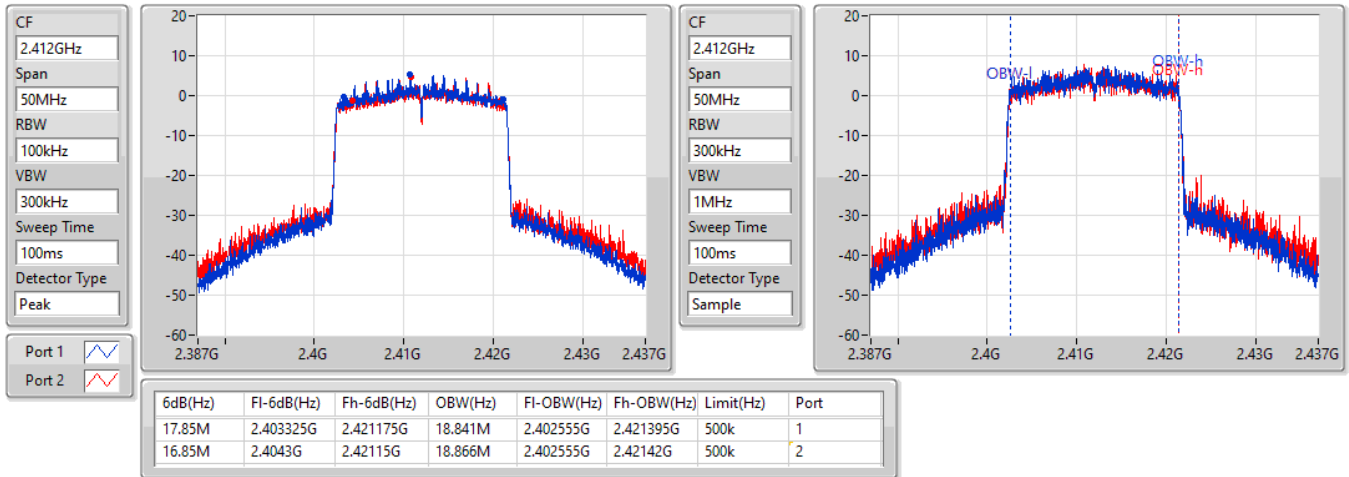

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EBW
2462MHz

07/08/2021

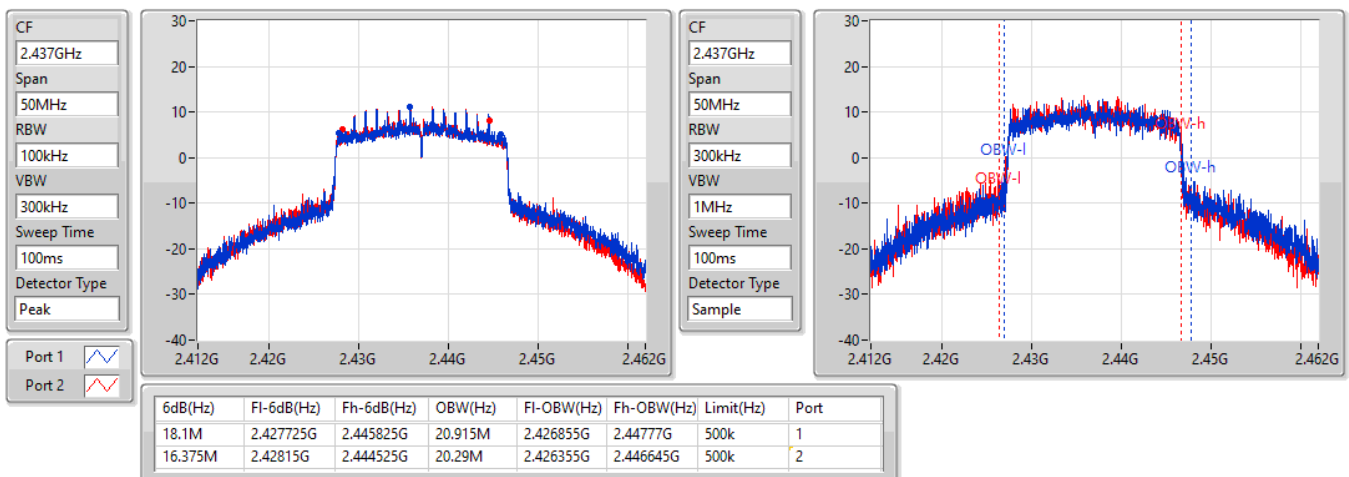


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2412MHz

07/08/2021

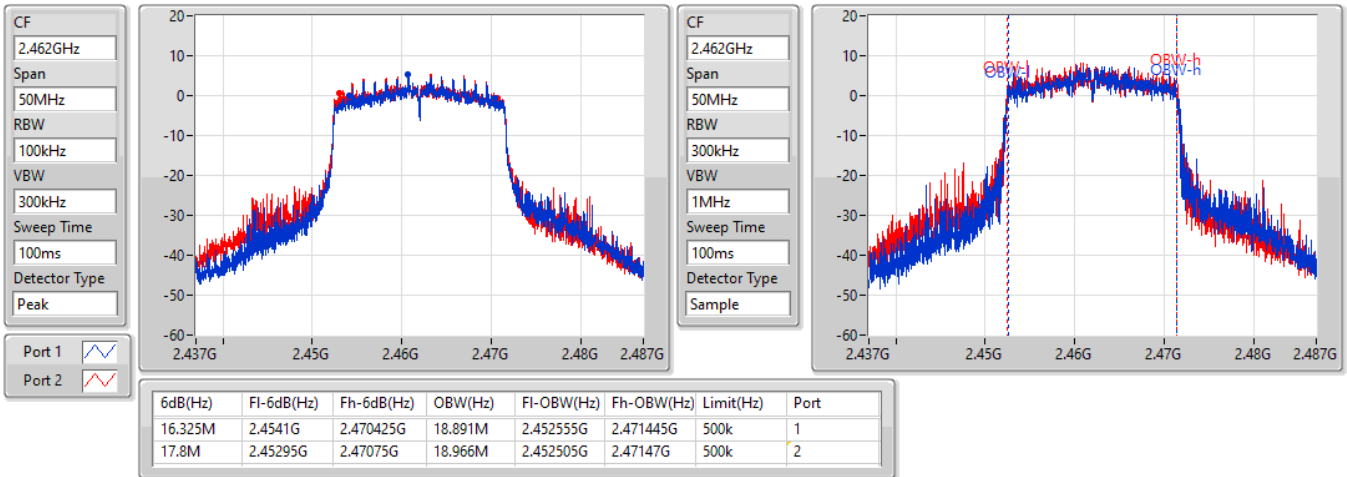

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2437MHz

07/08/2021

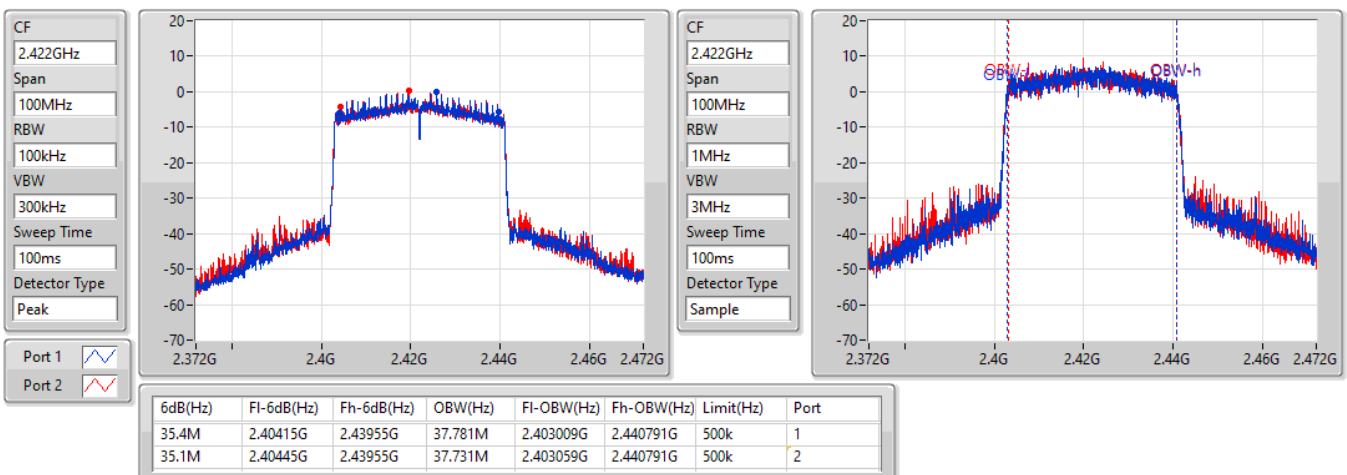


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2462MHz

07/08/2021

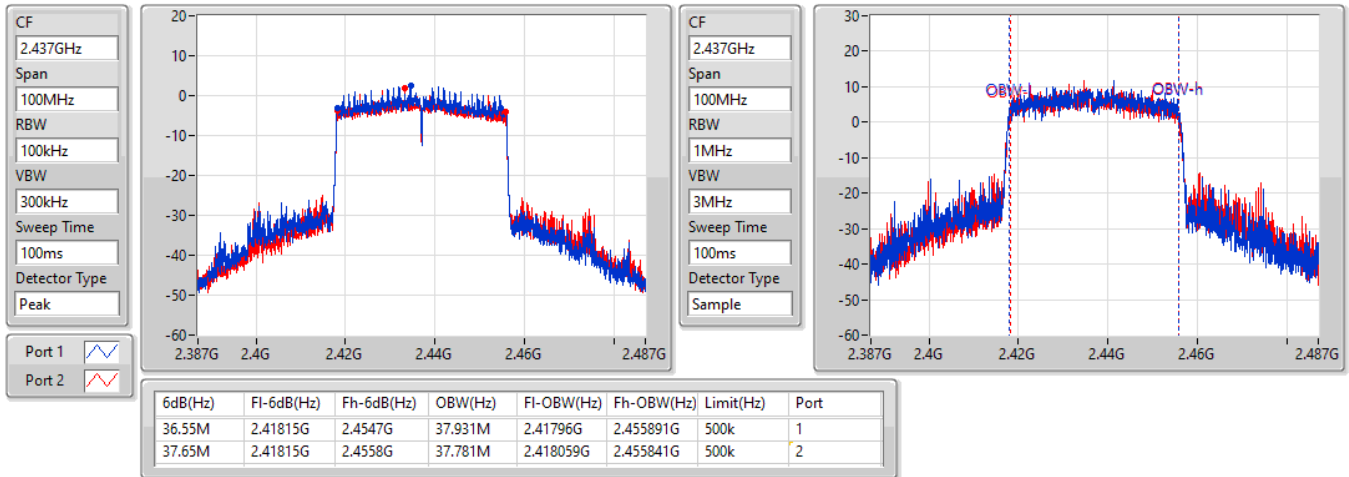

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2422MHz

07/08/2021

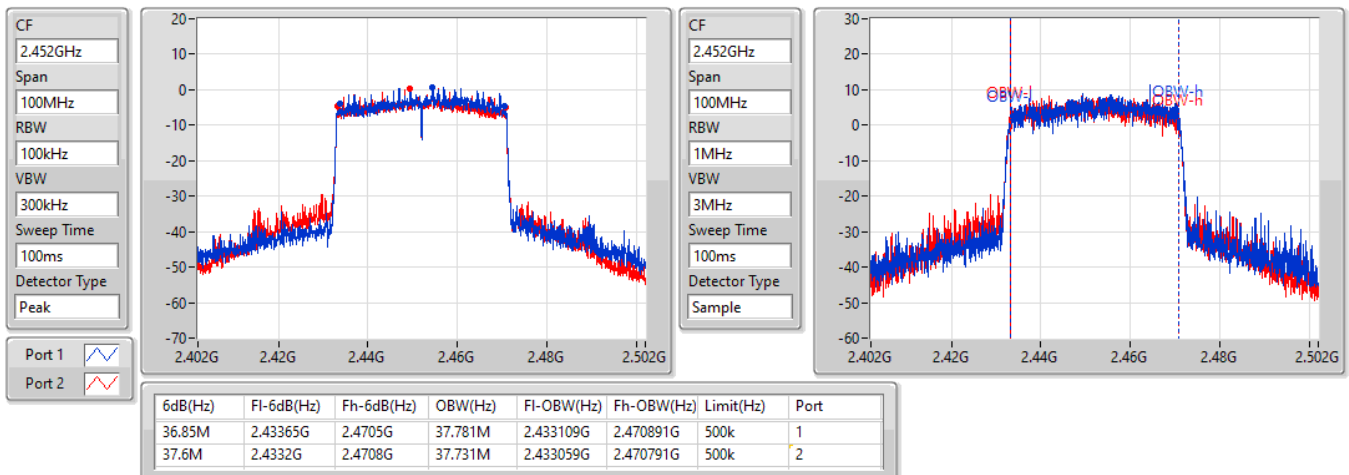


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2437MHz

07/08/2021


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2452MHz

07/08/2021





Average Power

Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	24.29	0.26853
802.11g_Nss1,(6Mbps)_2TX	23.60	0.22909
802.11ax HEW20_Nss1,(MCS0)_2TX	24.43	0.27733
802.11ax HEW40_Nss1,(MCS0)_2TX	19.06	0.08054

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.74	20.15	19.95	23.06	30.00
2417MHz	Pass	3.74	20.03	19.92	22.99	30.00
2437MHz	Pass	3.74	21.11	21.44	24.29	30.00
2457MHz	Pass	3.74	20.32	20.35	23.35	30.00
2462MHz	Pass	3.74	19.61	19.53	22.58	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.74	15.93	15.69	18.82	30.00
2417MHz	Pass	3.74	18.37	18.29	21.34	30.00
2437MHz	Pass	3.74	20.23	20.92	23.60	30.00
2457MHz	Pass	3.74	18.43	18.09	21.27	30.00
2462MHz	Pass	3.74	16.38	16.82	19.62	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.74	16.04	15.69	18.88	30.00
2417MHz	Pass	3.74	17.86	17.73	20.81	30.00
2437MHz	Pass	3.74	21.24	21.59	24.43	30.00
2457MHz	Pass	3.74	17.57	17.12	20.36	30.00
2462MHz	Pass	3.74	15.92	16.54	19.25	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.74	13.49	13.35	16.43	30.00
2427MHz	Pass	3.74	14.62	14.29	17.47	30.00
2437MHz	Pass	3.74	16.23	15.86	19.06	30.00
2447MHz	Pass	3.74	14.59	14.24	17.43	30.00
2452MHz	Pass	3.74	14.78	14.36	17.59	30.00

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



Average Power

Appendix C.2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	24.43	0.27733
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	19.06	0.08054



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.75	16.04	15.69	18.88	29.25
2417MHz	Pass	6.75	17.86	17.73	20.81	29.25
2437MHz	Pass	6.75	21.24	21.59	24.43	29.25
2457MHz	Pass	6.75	17.57	17.12	20.36	29.25
2462MHz	Pass	6.75	15.92	16.54	19.25	29.25
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.75	13.49	13.35	16.43	29.25
2427MHz	Pass	6.75	14.62	14.29	17.47	29.25
2437MHz	Pass	6.75	16.23	15.86	19.06	29.25
2447MHz	Pass	6.75	14.59	14.24	17.43	29.25
2452MHz	Pass	6.75	14.78	14.36	17.59	29.25

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	0.32
802.11g_Nss1,(6Mbps)_2TX	-3.04
802.11ax HEW20_Nss1,(MCS0)_2TX	-2.02
802.11ax HEW40_Nss1,(MCS0)_2TX	-11.69

RBW = 3kHz;

Result

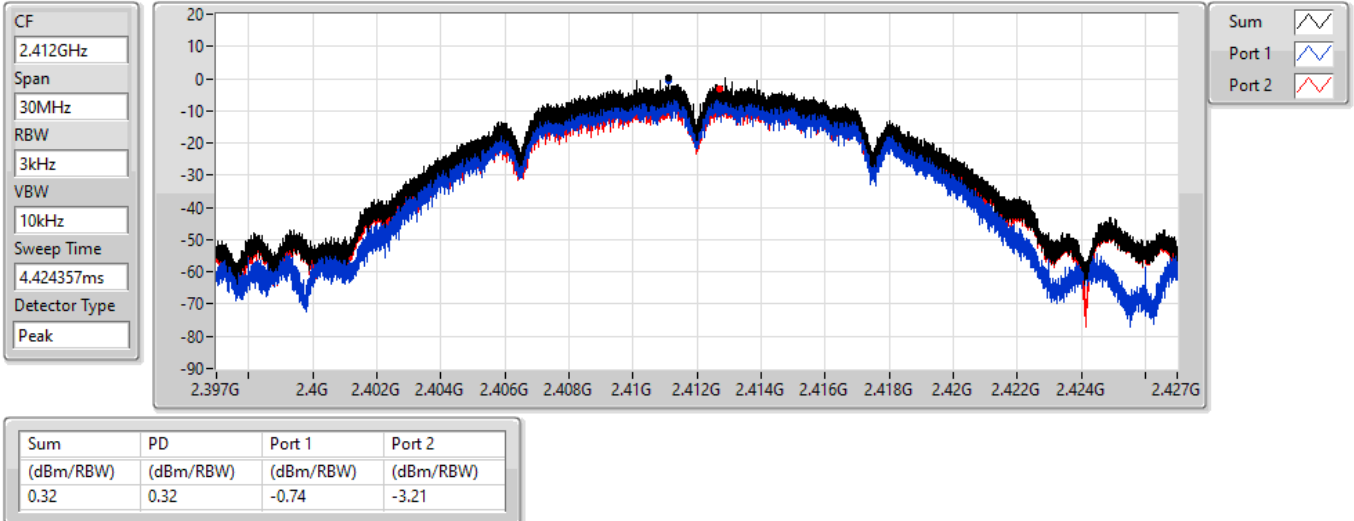
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit
						(dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.75	-0.74	-3.21	0.32	7.25
2437MHz	Pass	6.75	-2.13	-1.53	-0.57	7.25
2462MHz	Pass	6.75	-3.10	-4.13	-1.73	7.25
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.75	-9.61	-9.74	-7.62	7.25
2437MHz	Pass	6.75	-5.10	-3.98	-3.04	7.25
2462MHz	Pass	6.75	-8.62	-8.16	-6.72	7.25
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.75	-10.68	-10.03	-7.42	7.25
2437MHz	Pass	6.75	-5.16	-3.69	-2.02	7.25
2462MHz	Pass	6.75	-11.09	-9.47	-7.94	7.25
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.75	-14.08	-15.28	-13.62	7.25
2437MHz	Pass	6.75	-13.15	-12.90	-11.69	7.25
2452MHz	Pass	6.75	-15.02	-14.71	-13.19	7.25

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;

802.11b_Nss1,(1Mbps)_2TX

2412MHz

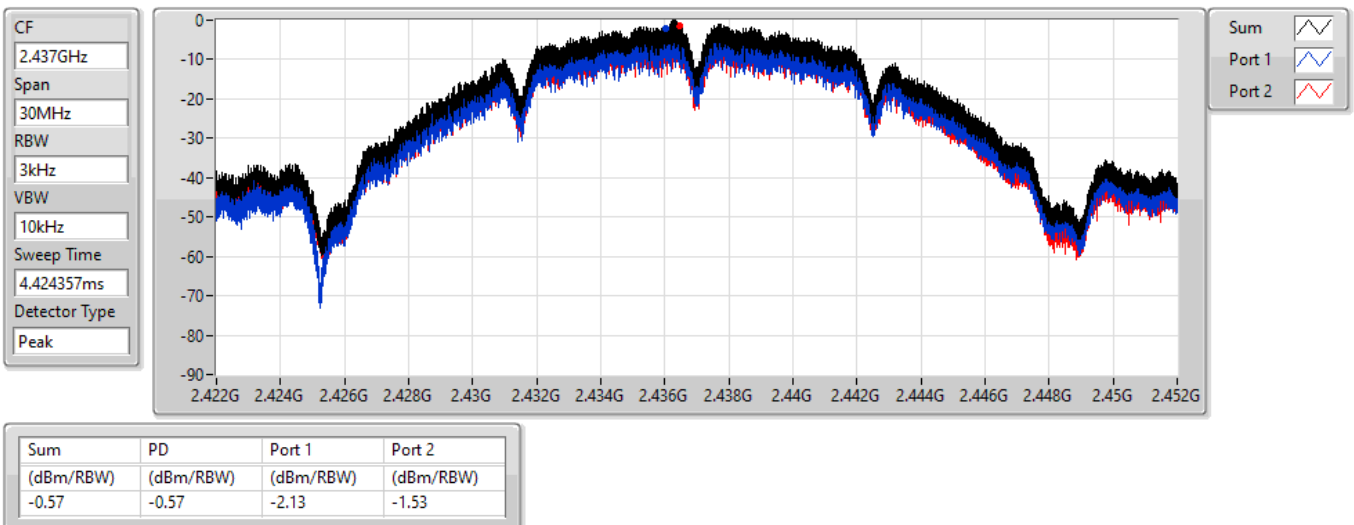
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802.11b_Nss1,(1Mbps)_2TX

2437MHz

07/08/2021

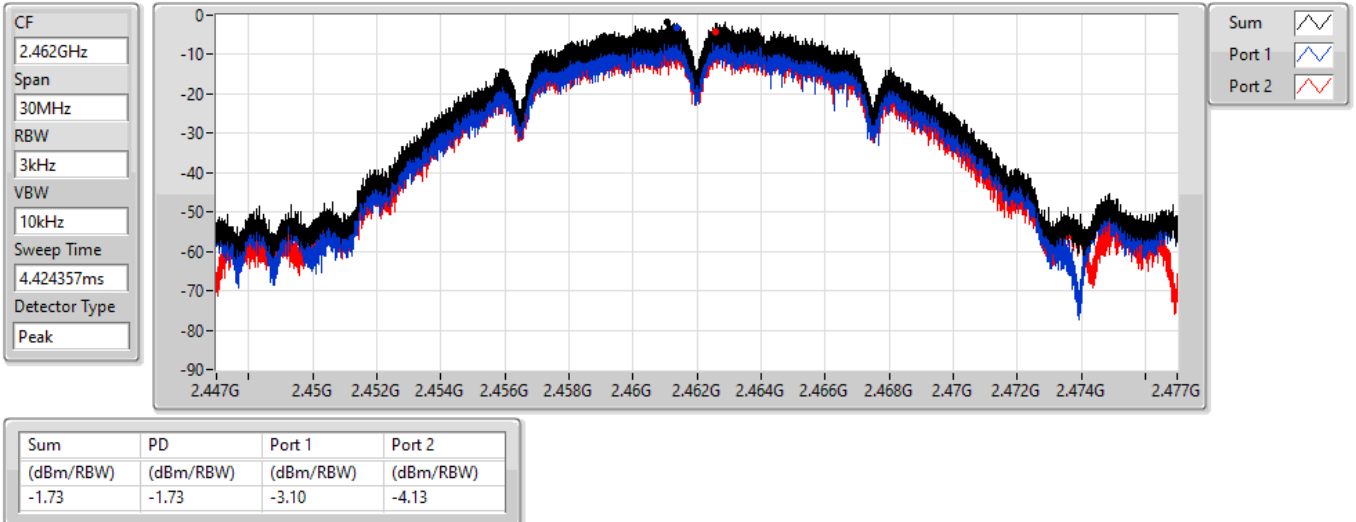


802.11b_Nss1,(1Mbps)_2TX

2462MHz

PSD

07/08/2021

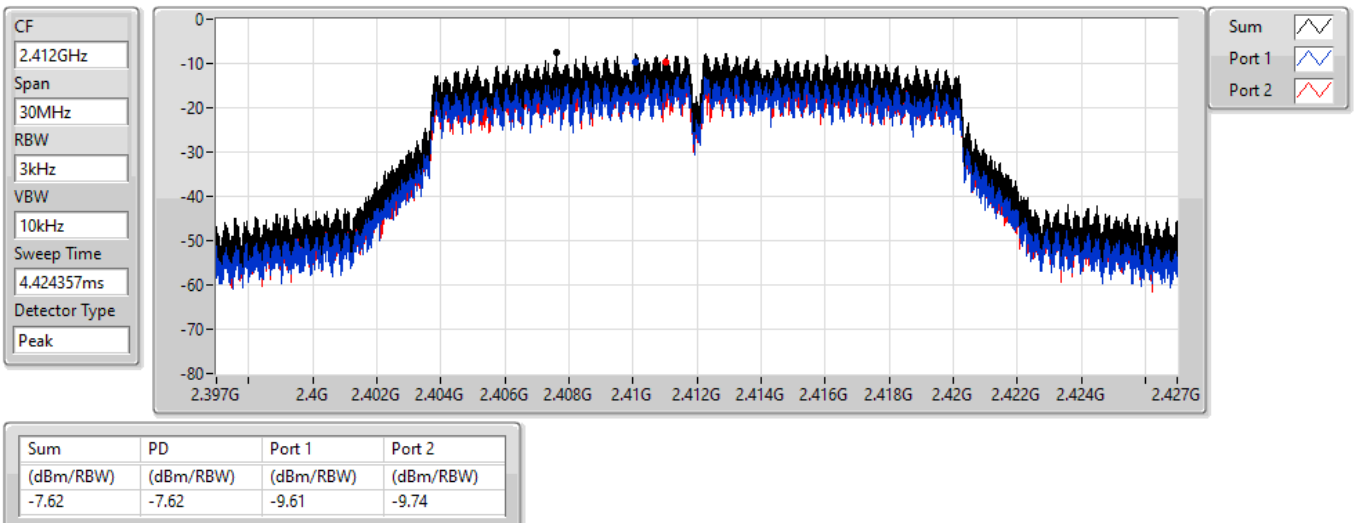


802.11g_Nss1,(6Mbps)_2TX

2412MHz

PSD

07/08/2021

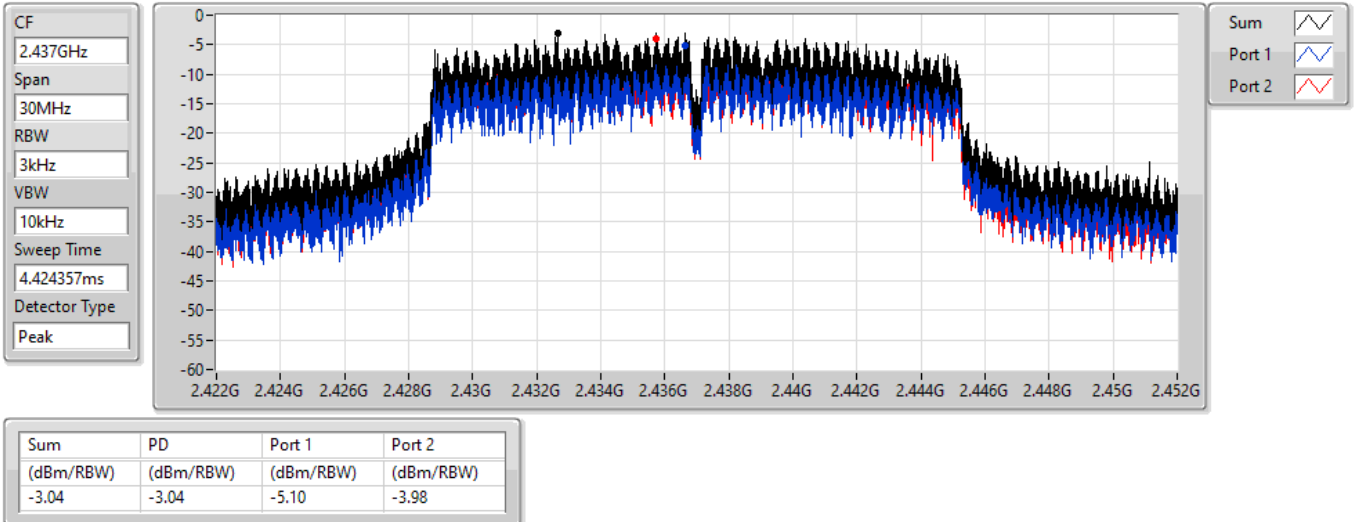


802.11g_Nss1,(6Mbps)_2TX

2437MHz

PSD

07/08/2021

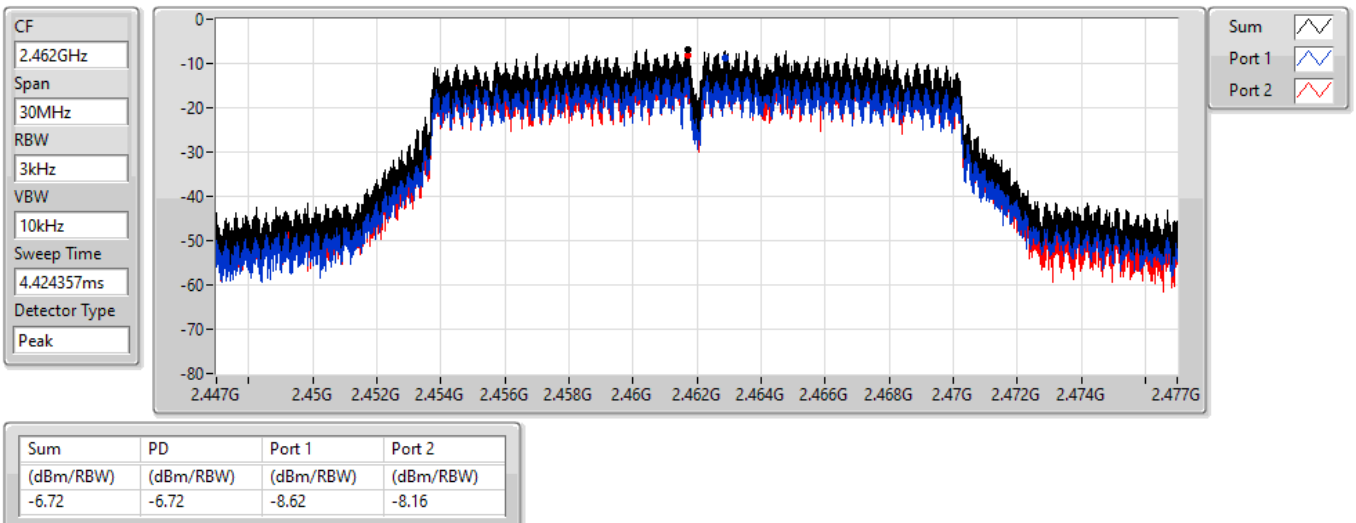


802.11g_Nss1,(6Mbps)_2TX

2462MHz

PSD

07/08/2021

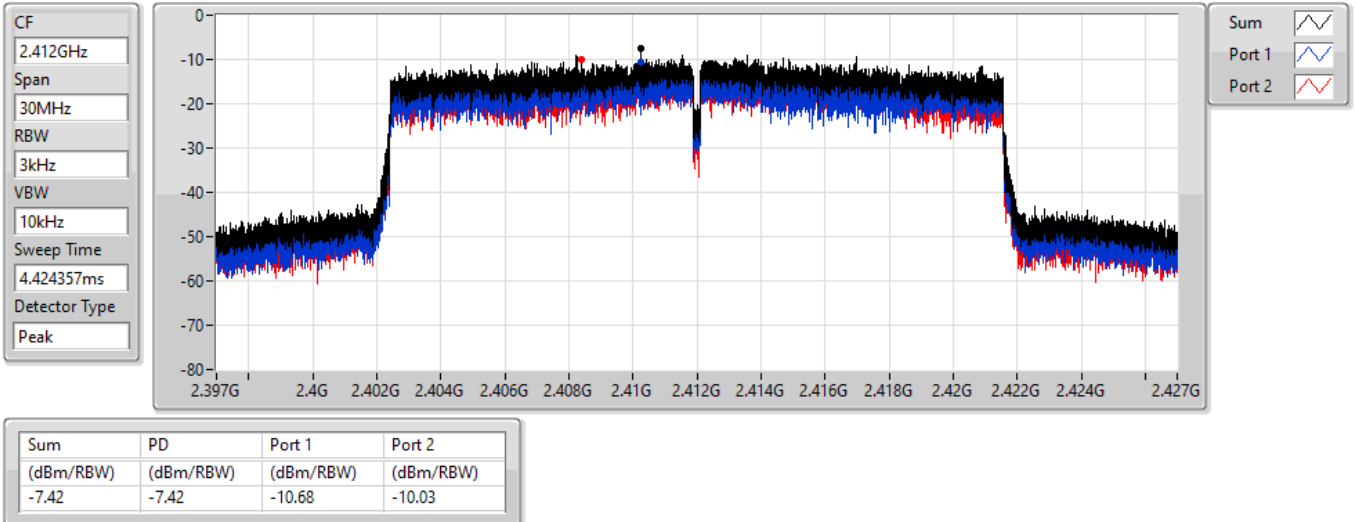


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2412MHz

07/08/2021

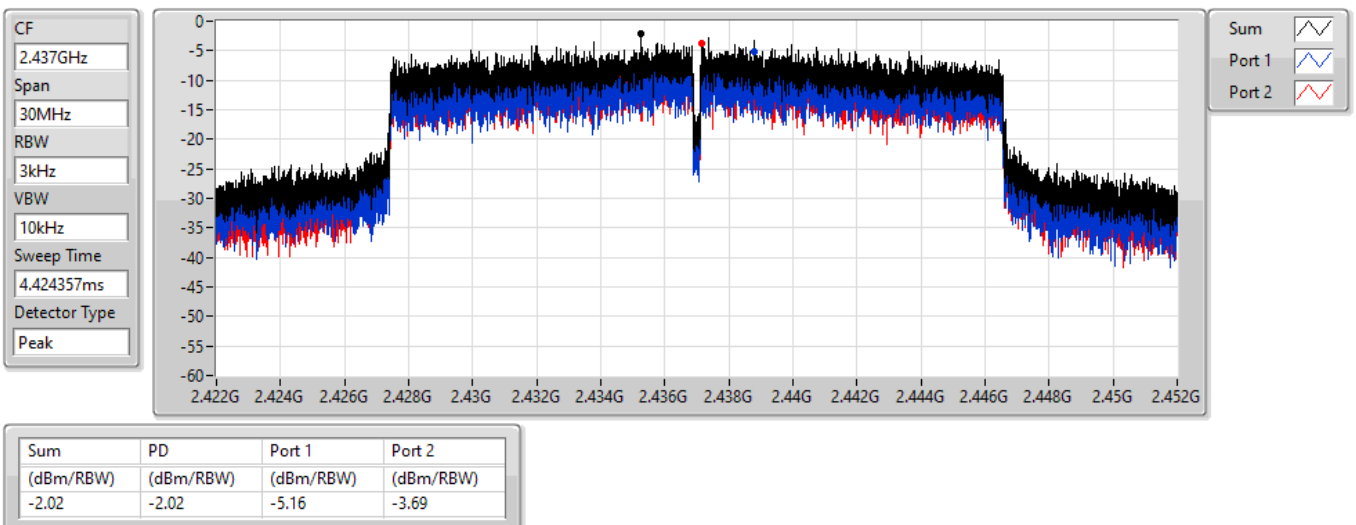


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2437MHz

07/08/2021

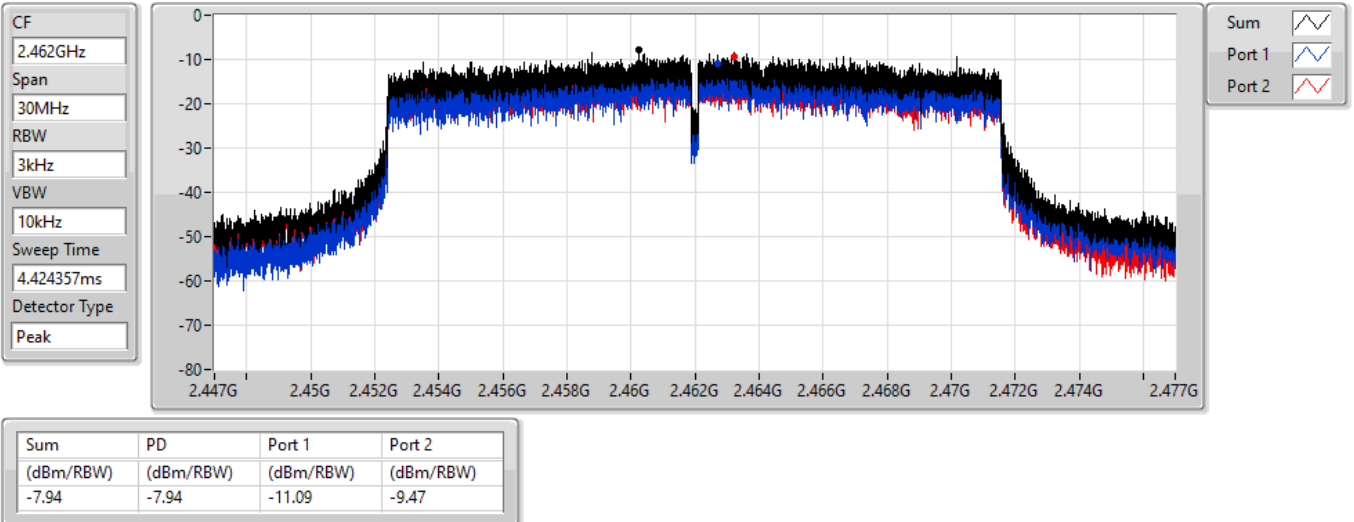


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

07/08/2021

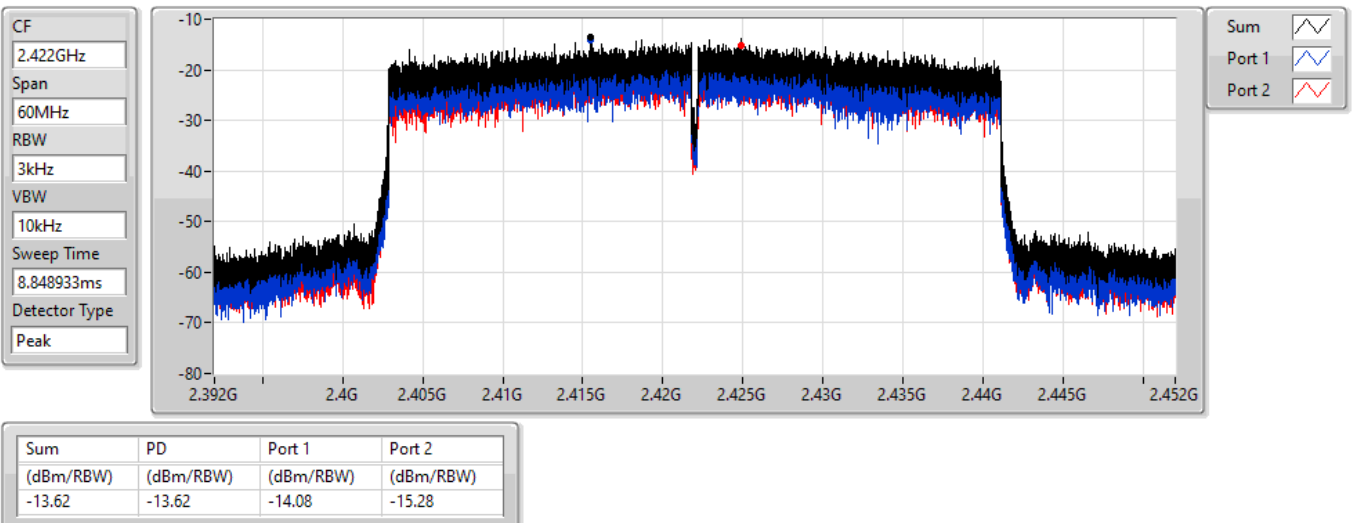


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2422MHz

07/08/2021

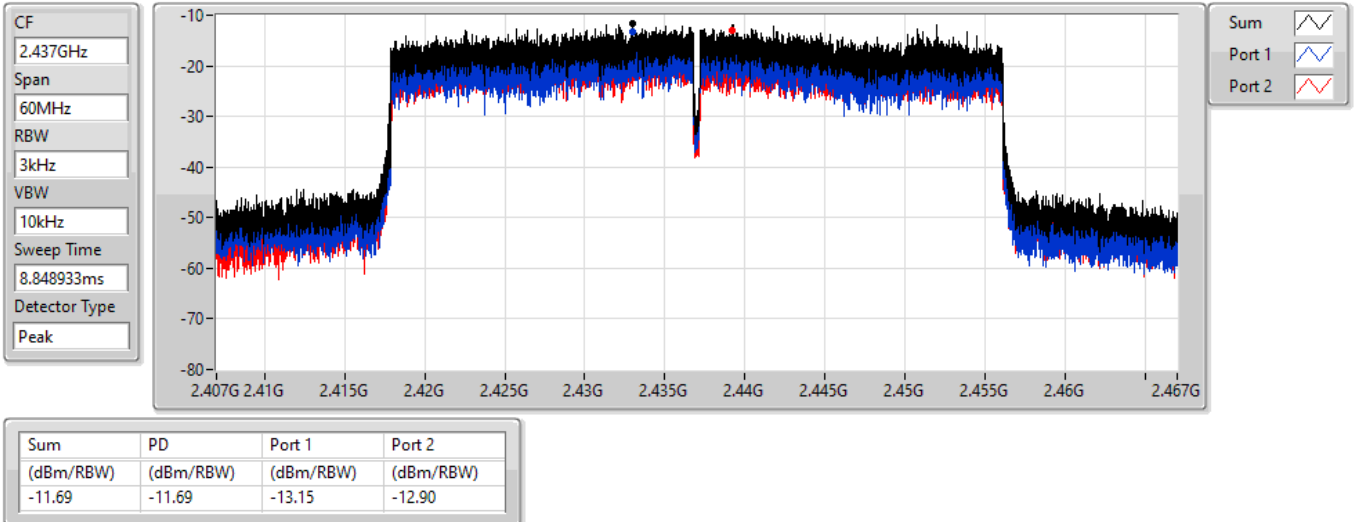


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2437MHz

07/08/2021

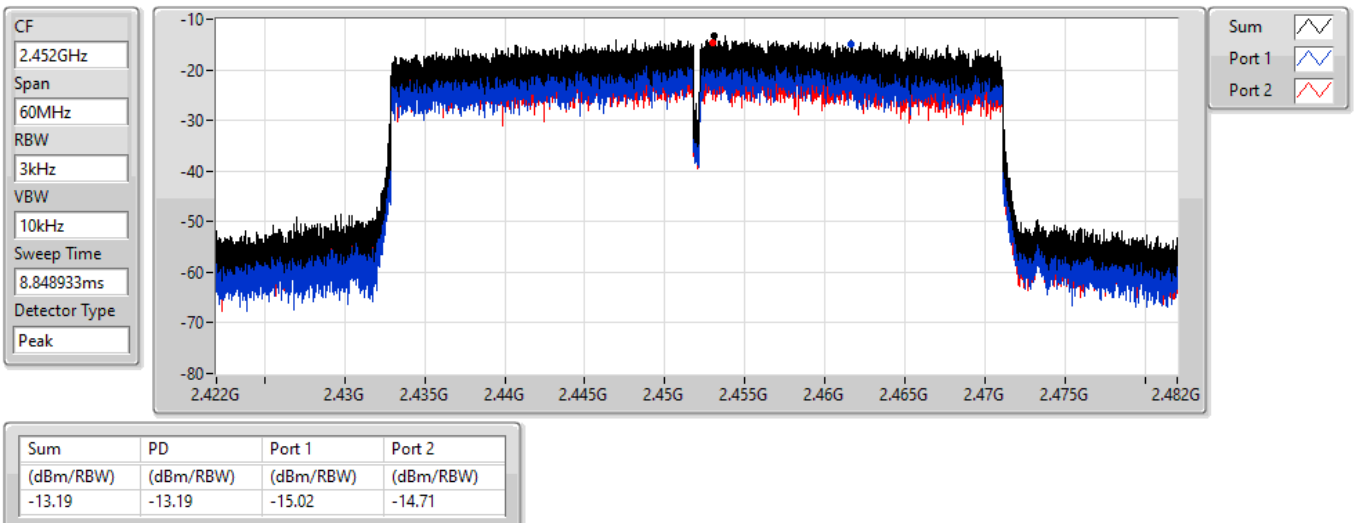


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2452MHz

07/08/2021



**Summary**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43799G	12.45	-17.55	2.16574G	-52.32	2.3995G	-30.35	2.4G	-35.63	2.4877G	-52.35	16.75674G	-47.29	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.4357G	13.07	-16.93	873.46M	-51.31	2.39918G	-24.11	2.4G	-26.70	2.50004G	-50.74	7.23795G	-39.26	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.4357G	11.97	-18.03	2.18525G	-52.11	2.39898G	-25.25	2.4G	-29.33	2.50124G	-50.10	23.51374G	-43.38	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.43198G	4.55	-25.45	732.17M	-50.88	2.39952G	-26.79	2.4G	-32.08	2.4857G	-38.25	24.90745G	-44.22	1

Result

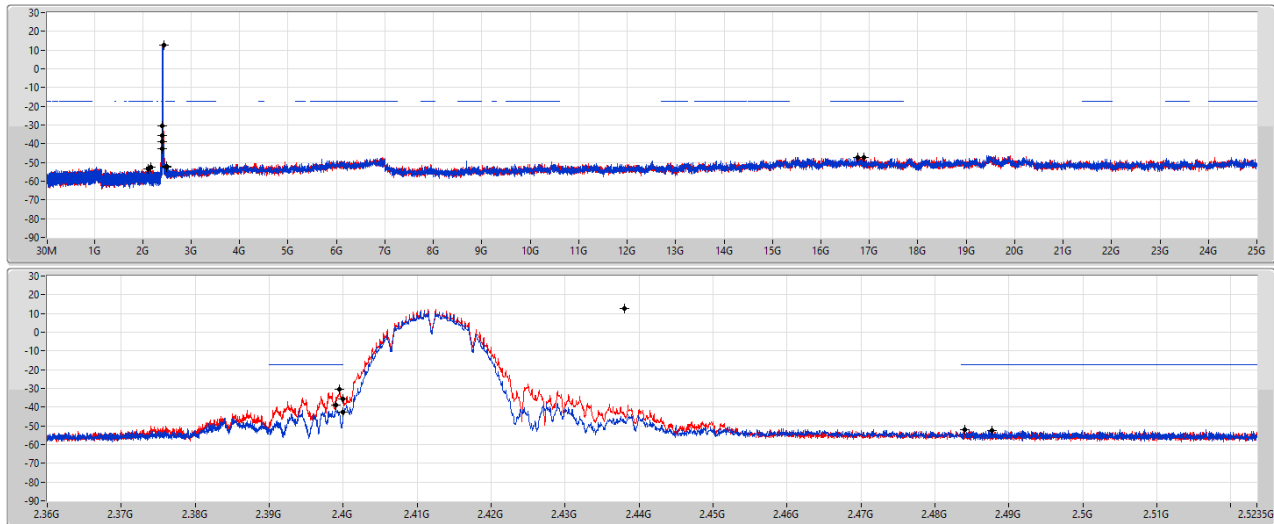
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43799G	12.45	-17.55	2.10399G	-53.34	2.399G	-38.92	2.4G	-42.62	2.48402G	-51.82	16.88598G	-47.52	1
2412MHz	Pass	2.43799G	12.45	-17.55	2.16574G	-52.32	2.3995G	-30.35	2.4G	-35.63	2.4877G	-52.35	16.75674G	-47.29	2
2437MHz	Pass	2.43799G	12.45	-17.55	771.81M	-53.49	2.3995G	-41.34	2.4G	-44.62	2.48602G	-48.69	6.60579G	-46.76	1
2437MHz	Pass	2.43799G	12.45	-17.55	414.45M	-52.76	2.399G	-45.61	2.4G	-47.30	2.48404G	-50.76	16.45612G	-46.19	2
2462MHz	Pass	2.43799G	12.45	-17.55	864.14M	-53.17	2.39904G	-52.23	2.4835G	-45.79	2.489G	-45.79	16.37464G	-47.35	1
2462MHz	Pass	2.43799G	12.45	-17.55	1.9208G	-53.80	2.3994G	-51.08	2.4835G	-42.87	2.48896G	-42.99	16.86351G	-46.29	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4357G	13.07	-16.93	873.46M	-51.31	2.39918G	-24.11	2.4G	-26.70	2.50004G	-50.74	7.23795G	-39.26	1
2412MHz	Pass	2.4357G	13.07	-16.93	2.14098G	-51.95	2.39984G	-24.22	2.4G	-29.51	2.48998G	-49.64	7.23233G	-41.78	2
2437MHz	Pass	2.4357G	13.07	-16.93	832.39M	-51.72	2.39988G	-33.91	2.4G	-36.97	2.48444G	-37.66	16.92251G	-44.37	1
2437MHz	Pass	2.4357G	13.07	-16.93	2.30845G	-51.59	2.39984G	-32.73	2.4G	-35.83	2.48414G	-35.85	24.87919G	-43.79	2
2462MHz	Pass	2.4357G	13.07	-16.93	2.09962G	-51.27	2.39896G	-50.41	2.4835G	-38.80	2.4842G	-37.72	21.47681G	-44.31	1
2462MHz	Pass	2.4357G	13.07	-16.93	574.93M	-51.62	2.39436G	-51.13	2.4835G	-42.27	2.4836G	-39.90	16.67527G	-44.26	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4357G	11.97	-18.03	2.18525G	-52.11	2.39898G	-25.25	2.4G	-29.33	2.50124G	-50.10	23.51374G	-43.38	1
2412MHz	Pass	2.4357G	11.97	-18.03	753.47M	-51.78	2.39938G	-28.11	2.4G	-30.18	2.48362G	-49.39	17.31023G	-42.84	2
2437MHz	Pass	2.4357G	11.97	-18.03	2.30874G	-51.90	2.4G	-35.45	2.4G	-37.38	2.48386G	-40.24	15.29577G	-44.05	1
2437MHz	Pass	2.4357G	11.97	-18.03	688.23M	-51.72	2.39908G	-33.28	2.4G	-37.05	2.48588G	-37.27	17.32147G	-43.20	2
2462MHz	Pass	2.4357G	11.97	-18.03	828.9M	-52.11	2.39898G	-48.31	2.4835G	-41.82	2.48452G	-39.48	14.91367G	-43.65	1
2462MHz	Pass	2.4357G	11.97	-18.03	832.69M	-52.33	2.39978G	-49.16	2.4835G	-40.64	2.4844G	-36.88	21.59481G	-43.65	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	4.55	-25.45	916.8M	-51.53	2.39604G	-35.68	2.4G	-40.56	2.48682G	-49.36	23.31165G	-44.09	1
2422MHz	Pass	2.43198G	4.55	-25.45	1.80132G	-51.89	2.3998G	-35.24	2.4G	-38.61	2.4895G	-49.36	23.47432G	-44.50	2
2437MHz	Pass	2.43198G	4.55	-25.45	732.17M	-50.88	2.39952G	-26.79	2.4G	-32.08	2.4857G	-38.25	24.90745G	-44.22	1
2437MHz	Pass	2.43198G	4.55	-25.45	1.82794G	-52.41	2.39968G	-31.38	2.4G	-32.11	2.48534G	-39.24	21.83926G	-42.69	2
2452MHz	Pass	2.43198G	4.55	-25.45	2.12993G	-50.35	2.39664G	-47.01	2.4835G	-37.02	2.48794G	-36.45	23.4603G	-44.00	1
2452MHz	Pass	2.43198G	4.55	-25.45	790.85M	-51.99	2.39476G	-44.30	2.4835G	-38.54	2.48446G	-37.95	23.41542G	-43.74	2

802.11b_Nss1,(1Mbps)_2TX

2412MHz

CSENdB

07/08/2021



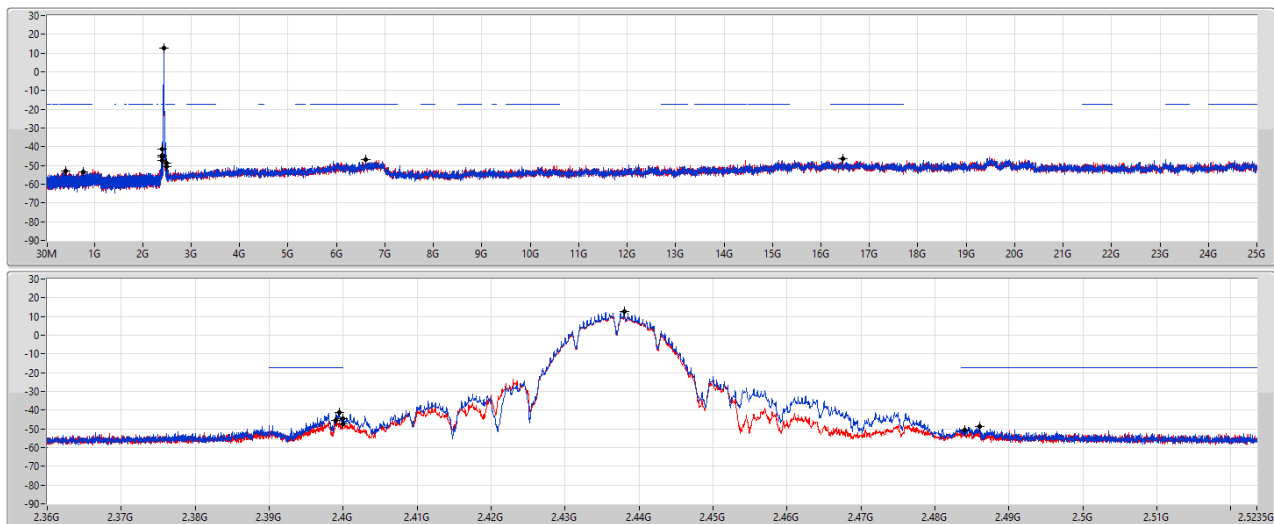
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2.43799G	12.45	-17.55	2.10399G	-53.34	2.399G	-38.92	2.4G	-42.62	2.48402G	-51.82	16.88598G	-47.52	1
2.43799G	12.45	-17.55	2.16574G	-52.32	2.3995G	-30.35	2.4G	-35.63	2.4877G	-52.35	16.75674G	-47.29	2

802.11b_Nss1,(1Mbps)_2TX

2437MHz

CSENdB

07/08/2021



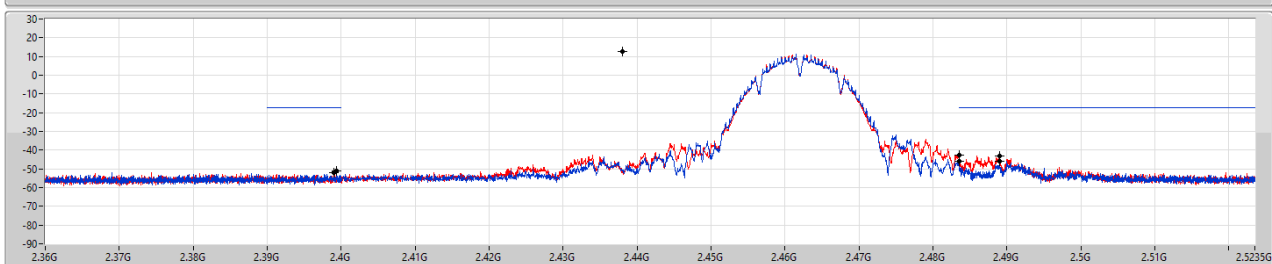
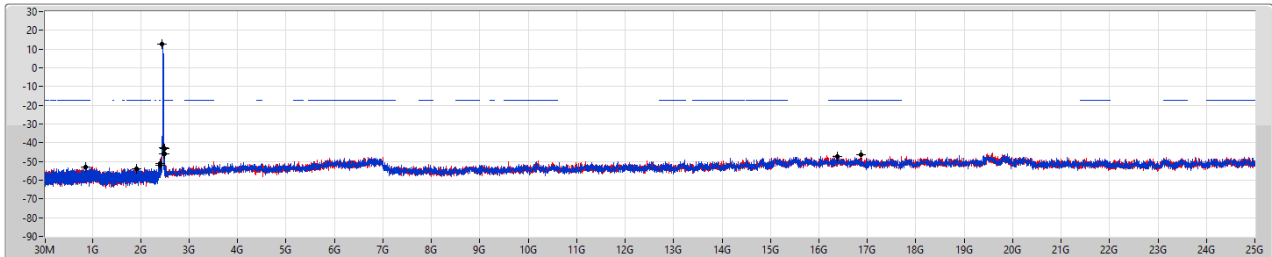
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43799G	12.45	-17.55	771.81M	-53.49	2.3995G	-41.34	2.4G	-44.62	2.48602G	-48.69	6.60579G	-46.76	1
2.43799G	12.45	-17.55	414.45M	-52.76	2.399G	-45.61	2.4G	-47.30	2.48404G	-50.76	16.45612G	-46.19	2

802.11b_Nss1,(1Mbps)_2TX

2462MHz

CSENdB

07/08/2021



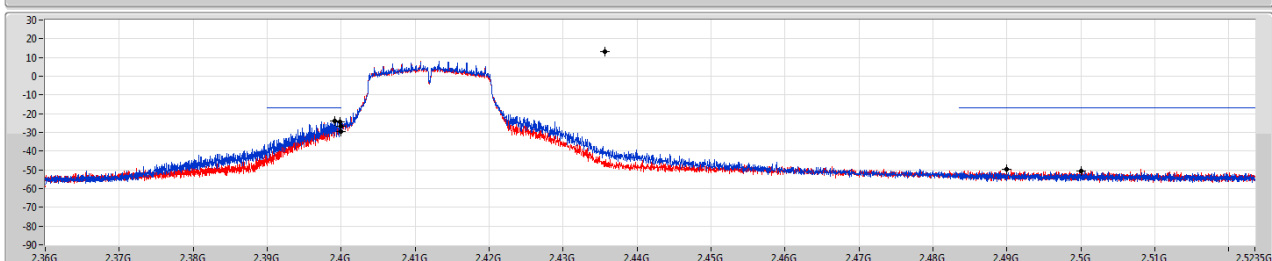
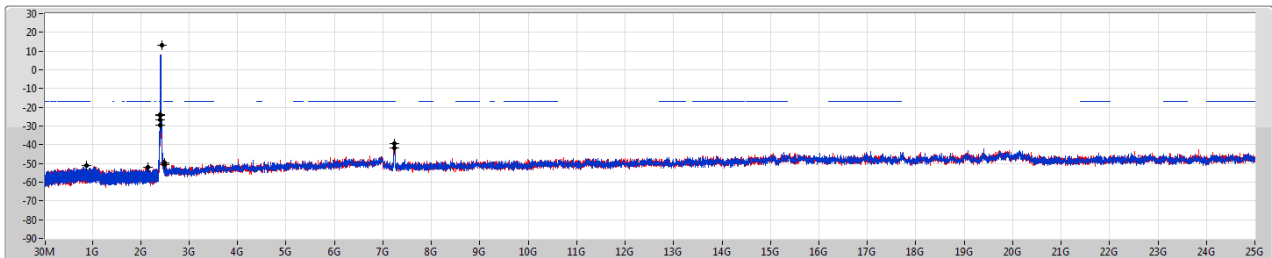
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2.43799G	12.45	-17.55	864.14M	-53.17	2.39904G	-52.23	2.4835G	-45.79	2.489G	-45.79	16.37464G	-47.35	1
2.43799G	12.45	-17.55	1.9208G	-53.80	2.3994G	-51.08	2.4835G	-42.87	2.48996G	-42.99	16.86351G	-46.29	2

802.11g_Nss1,(6Mbps)_2TX

2412MHz

CSE NdB

07/04/2021



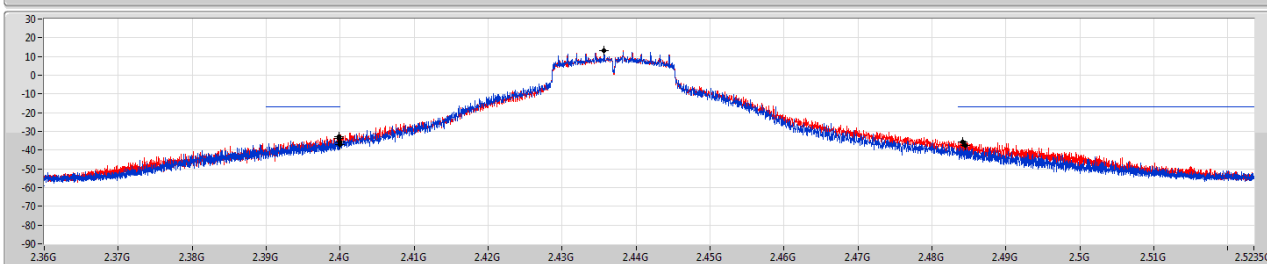
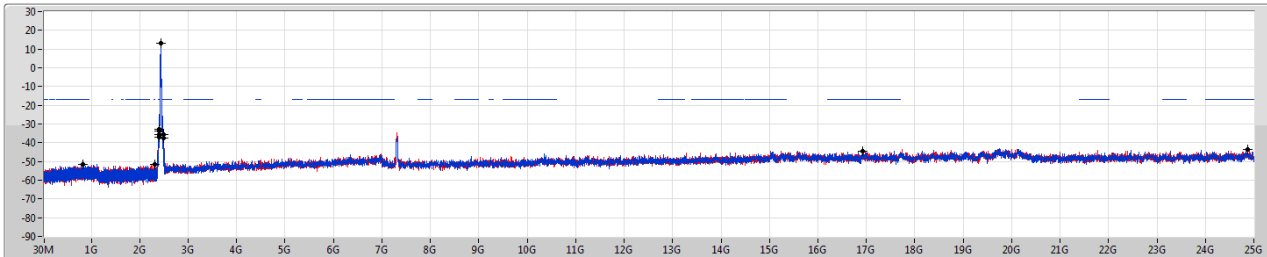
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4357G	13.07	-16.93	873.46M	-51.31	2.39918G	-24.11	2.4G	-26.70	2.50004G	-50.74	7.23795G	-39.26	1
2.4357G	13.07	-16.93	2.14098G	-51.95	2.39984G	-24.22	2.4G	-29.51	2.48998G	-49.64	7.23233G	-41.78	2

802.11g_Nss1,(6Mbps)_2TX

2437MHz

CSE NdB

07/04/2021



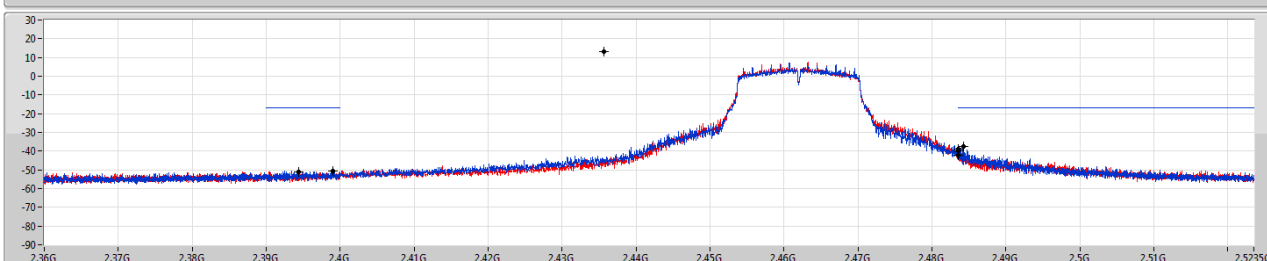
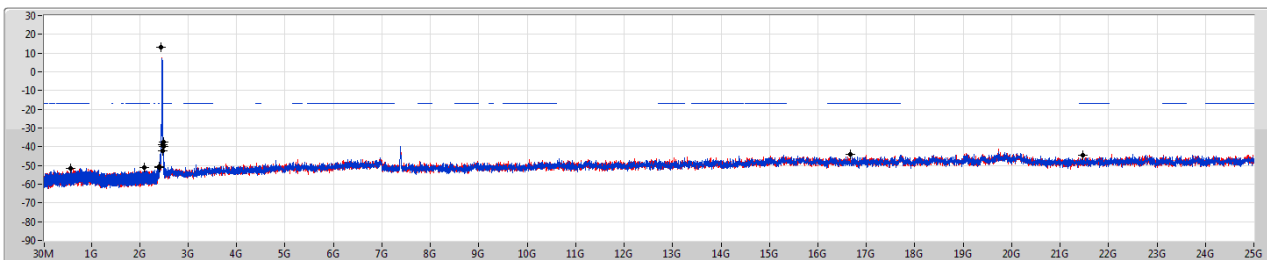
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4357G	13.07	-16.93	832.39M	-51.72	2.39988G	-33.91	2.4G	-36.97	2.48444G	-37.66	16.92251G	-44.37	1
2.4357G	13.07	-16.93	2.30845G	-51.59	2.39984G	-32.73	2.4G	-35.83	2.48414G	-35.85	24.87919G	-43.79	2

802.11g_Nss1,(6Mbps)_2TX

2462MHz

CSE NdB

07/04/2021

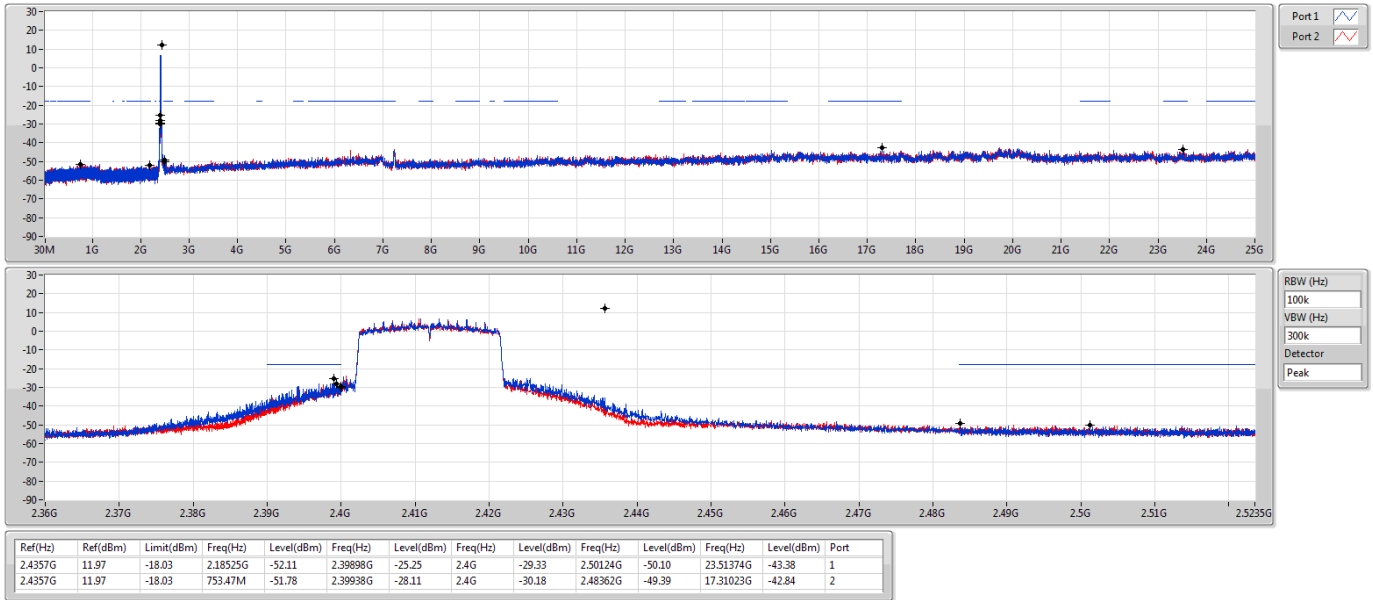


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4357G	13.07	-16.93	2.09962G	-51.27	2.39896G	-50.41	2.4835G	-38.80	2.4842G	-37.72	21.47681G	-44.31	1
2.4357G	13.07	-16.93	574.93M	-51.62	2.39436G	-51.13	2.4835G	-42.27	2.4836G	-39.90	16.67527G	-44.26	2

802.11ax HEW20_Nss1,(MCS0)_2TX

CSE NdB

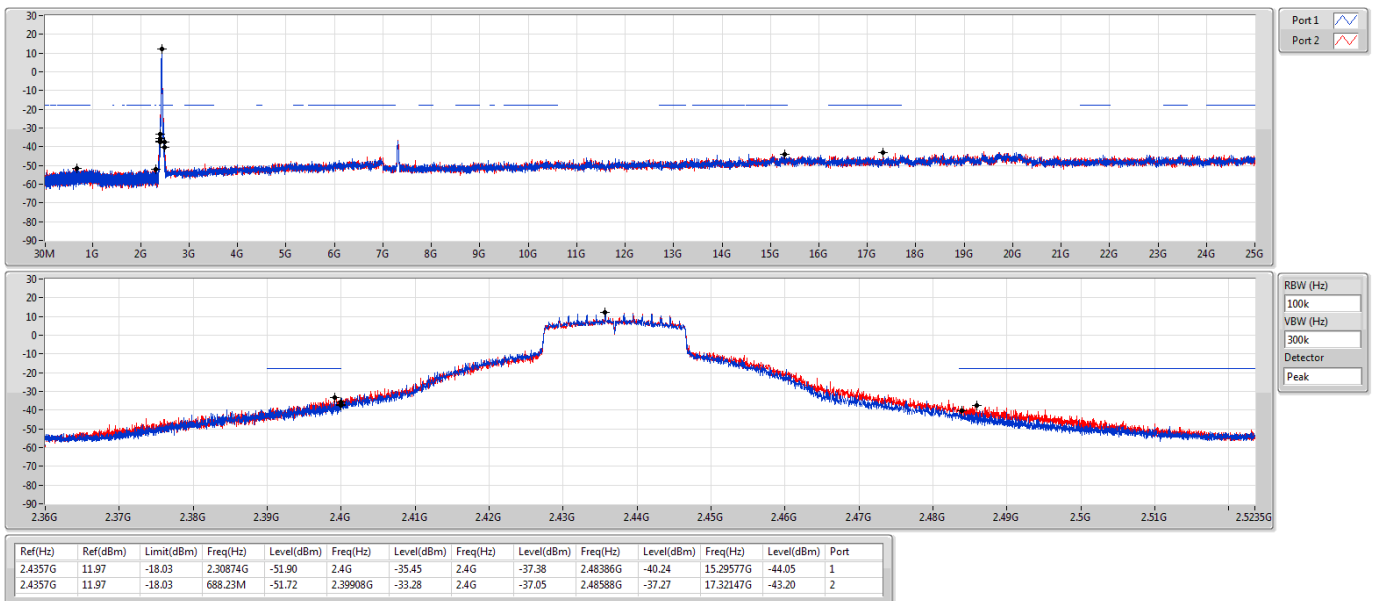
2412MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

CSE NdB

2437MHz

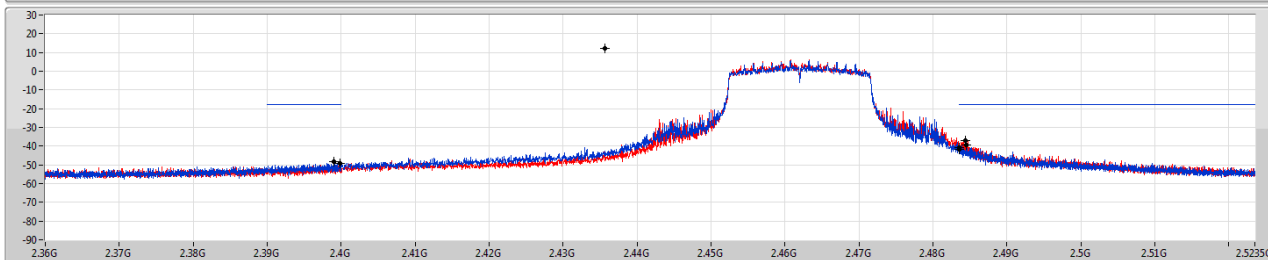
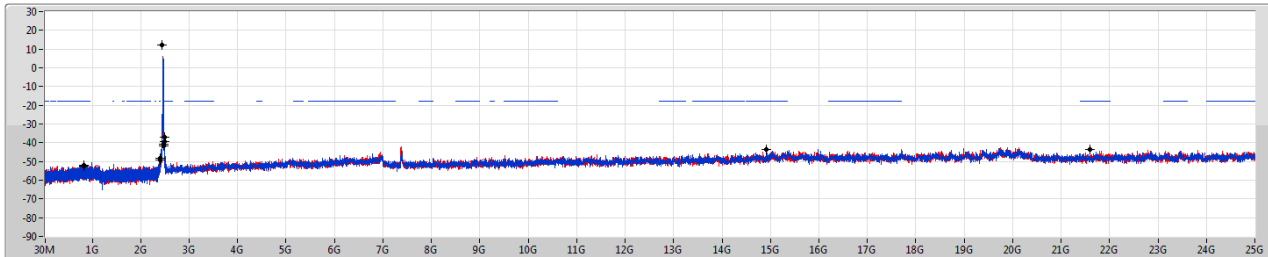


802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz

CSE NdB

07/04/2021



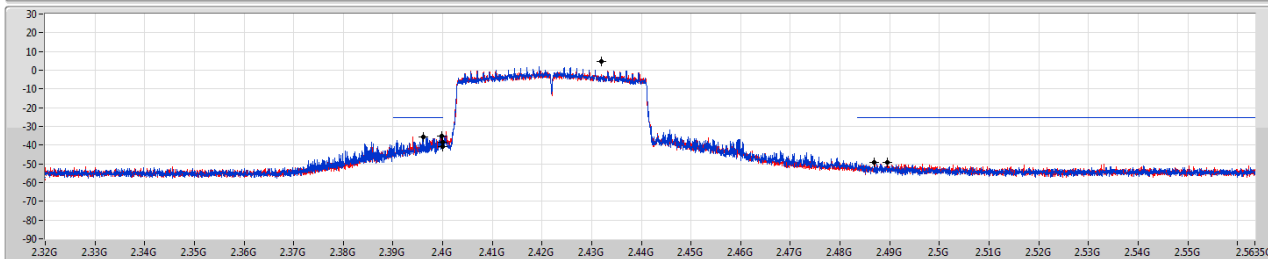
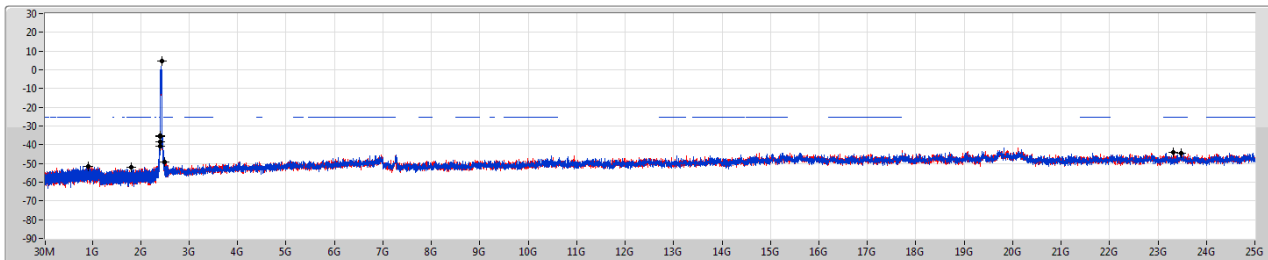
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4357G	11.97	-18.03	828.9M	-52.11	2.39896G	-48.31	2.4835G	-41.82	2.48452G	-39.48	14.91367G	-43.65	1
2.4357G	11.97	-18.03	832.69M	-52.33	2.39978G	-49.16	2.4835G	-40.64	2.4844G	-36.88	21.59481G	-43.65	2

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz

CSE NdB

07/04/2021



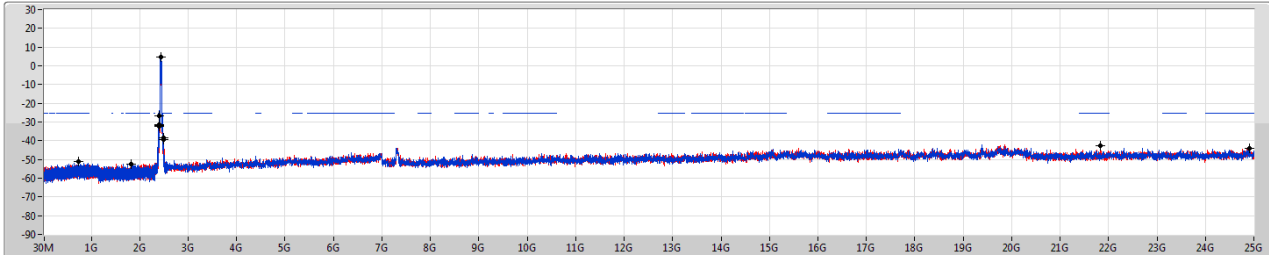
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	4.55	-25.45	916.8M	-51.53	2.39604G	-35.68	2.4G	-40.56	2.48682G	-49.36	23.31165G	-44.09	1
2.43198G	4.55	-25.45	1.80132G	-51.89	2.3998G	-35.24	2.4G	-38.61	2.4895G	-49.36	23.47432G	-44.50	2

802.11ax HEW40_Nss1,(MCS0)_2TX

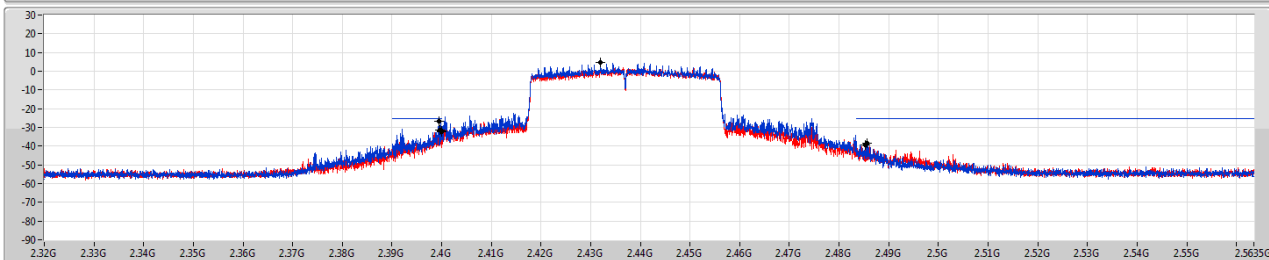
CSE NdB

2437MHz

07/04/2021



Port 1
Port 2



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

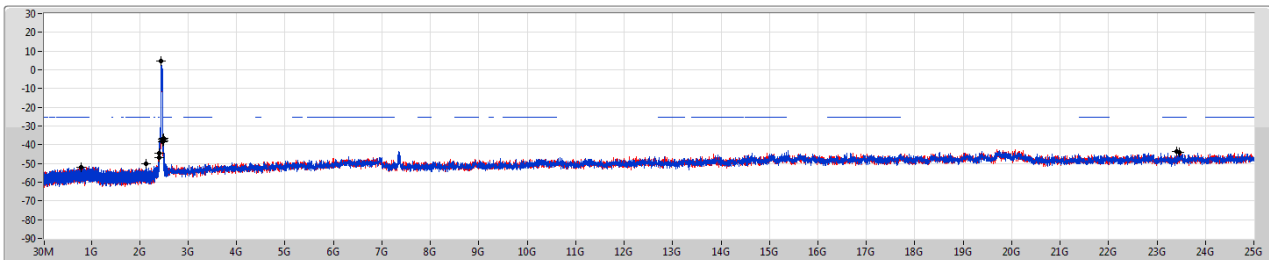
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2.43198G	4.55	-25.45	732.17M	-50.88	2.39952G	-26.79	2.4G	-32.08	2.4857G	-38.25	24.90745G	-44.22	1
2.43198G	4.55	-25.45	1.82794G	-52.41	2.39968G	-31.38	2.4G	-32.11	2.48534G	-39.24	21.83926G	-42.69	2

802.11ax HEW40_Nss1,(MCS0)_2TX

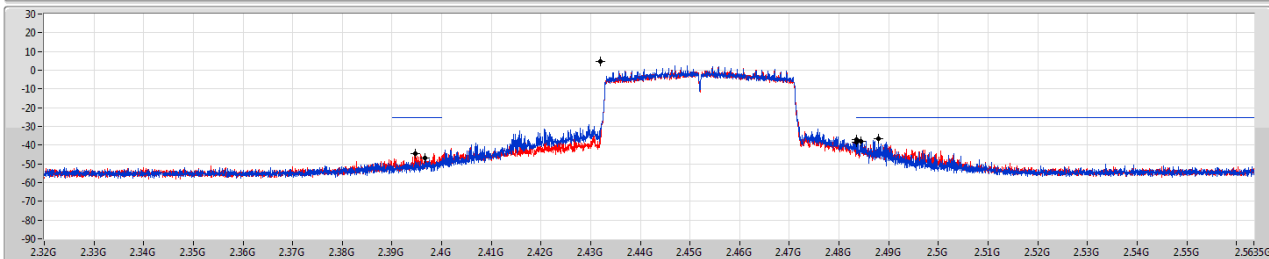
CSE NdB

2452MHz

07/04/2021



Port 1
Port 2



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
2.43198G	4.55	-25.45	2.12993G	-50.35	2.39664G	-47.01	2.4835G	-37.02	2.48794G	-36.45	23.4603G	-44.00	1
2.43198G	4.55	-25.45	790.85M	-51.99	2.39476G	-44.30	2.4835G	-38.54	2.48446G	-37.95	23.41542G	-43.74	2



Radiated Emissions below 1GHz

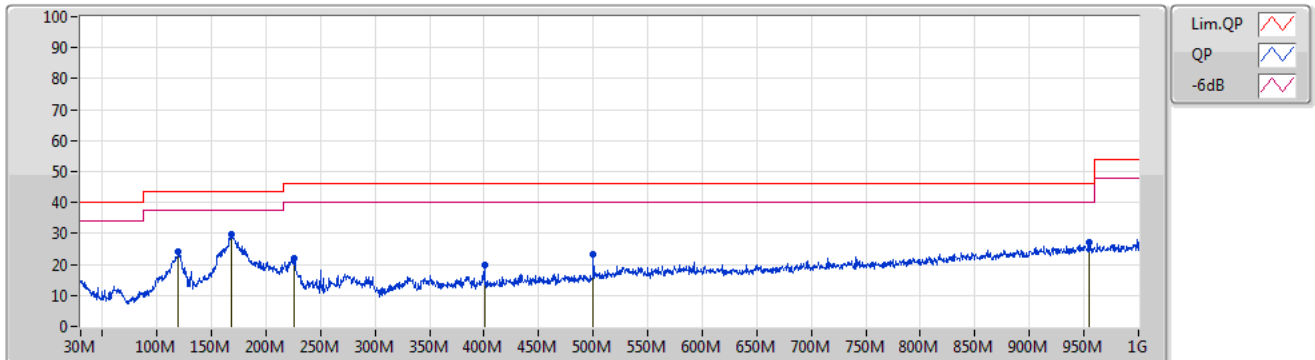
Appendix F.1

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	168.23M	29.84	43.50	-13.66	Vertical

02/08/2021

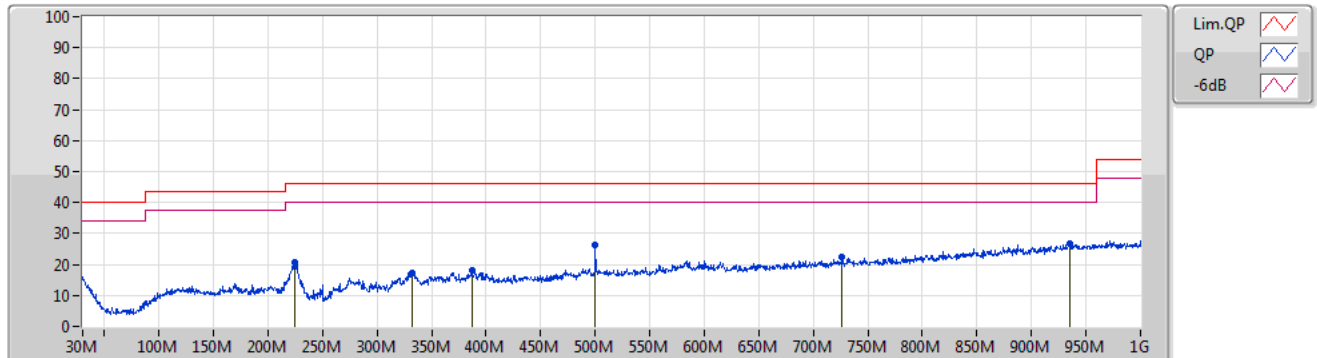
Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	119.73M	23.99	43.50	-19.51	-6.61	3	Vertical	45	1.00	-	30.60	18.33	2.70	27.64
PK	168.23M	29.84	43.50	-13.66	-8.43	3	Vertical	33	2.00	"Worst"	38.27	15.71	3.32	27.46
PK	225.94M	21.78	46.00	-24.22	-9.65	3	Vertical	278	2.00	-	31.43	13.59	3.21	26.45
PK	400.06M	19.87	46.00	-26.13	-6.81	3	Vertical	294	3.00	-	26.68	16.23	4.30	27.34
PK	499.97M	23.48	46.00	-22.52	-5.58	3	Vertical	154	4.00	-	29.06	17.52	4.80	27.90
PK	954.41M	26.94	46.00	-19.06	2.76	3	Vertical	295	2.00	-	24.18	22.10	7.00	26.34

02/08/2021

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	224.49M	20.49	46.00	-25.51	-9.58	3	Horizontal	137	2.00	-	30.07	13.68	3.20	26.46
PK	332.64M	17.35	46.00	-28.65	-7.88	3	Horizontal	36	1.00	-	25.23	14.84	4.00	26.72
PK	386.96M	17.90	46.00	-28.10	-7.11	3	Horizontal	214	3.00	-	25.01	15.87	4.25	27.23
PK	499.97M	26.36	46.00	-19.64	-5.58	3	Horizontal	322	4.00	-	31.94	17.52	4.80	27.90
PK	726.46M	22.32	46.00	-23.68	-1.04	3	Horizontal	317	4.00	-	23.36	20.67	5.91	27.62
PK	935.5M	26.89	46.00	-19.11	2.51	3	Horizontal	344	2.00	"Worst"	24.38	22.06	6.88	26.43

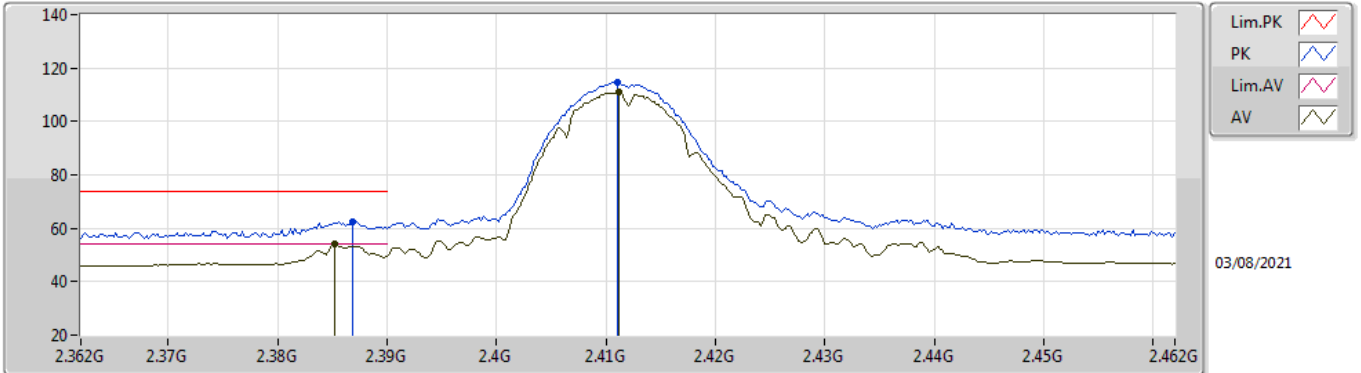


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	2.39G	53.98	54.00	-0.02	3	Vertical	360	1.18	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

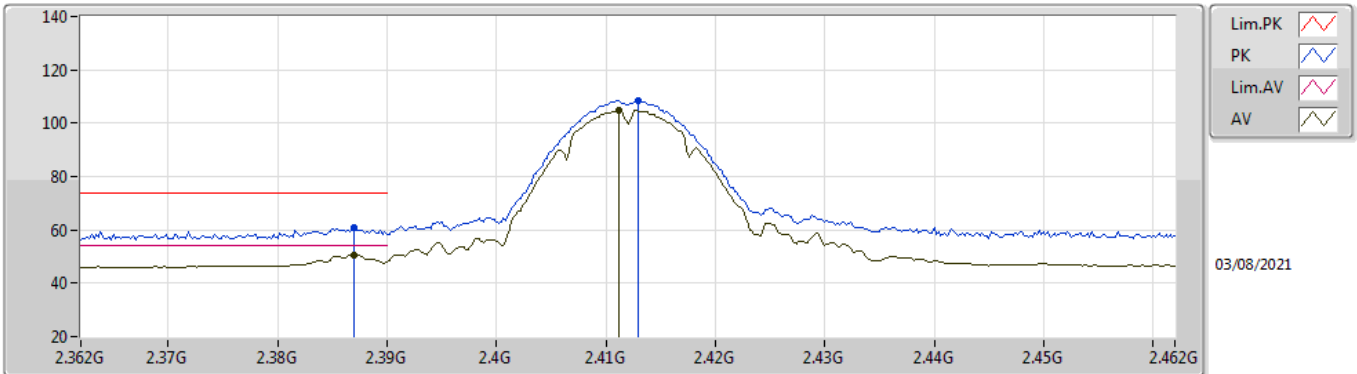


EUT V_2TX
Setting 17.5
04-F-E-2

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	2.3868G	62.40	74.00	-11.60	31.62	3	Vertical	67	2.69	-	28.37	2.41	-
AV	2.3852G	53.96	54.00	-0.04	23.18	3	Vertical	67	2.69	-	28.37	2.41	-
PK	2.411G	114.71	Inf	-Inf	83.90	3	Vertical	67	2.69	-	28.40	2.41	-
AV	2.4112G	111.08	Inf	-Inf	80.27	3	Vertical	67	2.69	-	28.40	2.41	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

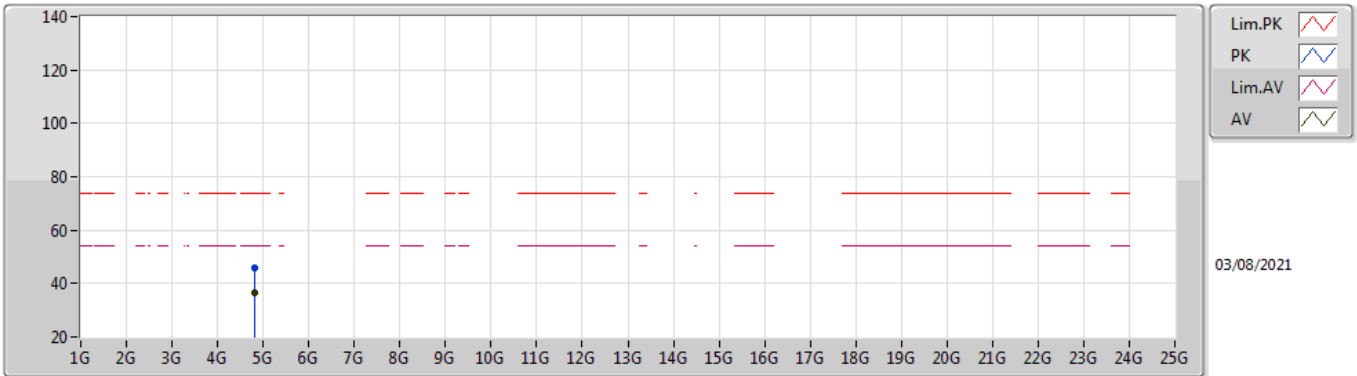


EUT Y_2TX
Setting 17.5
04-F-E-2

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	60.61	74.00	-13.39	29.83	3	Horizontal	180	2.08	-	28.37	2.41	-	
AV	2.387G	50.64	54.00	-3.36	19.86	3	Horizontal	180	2.08	-	28.37	2.41	-	
PK	2.413G	108.50	Inf	-Inf	77.69	3	Horizontal	180	2.08	-	28.40	2.41	-	
AV	2.4112G	104.88	Inf	-Inf	74.07	3	Horizontal	180	2.08	-	28.40	2.41	-	

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

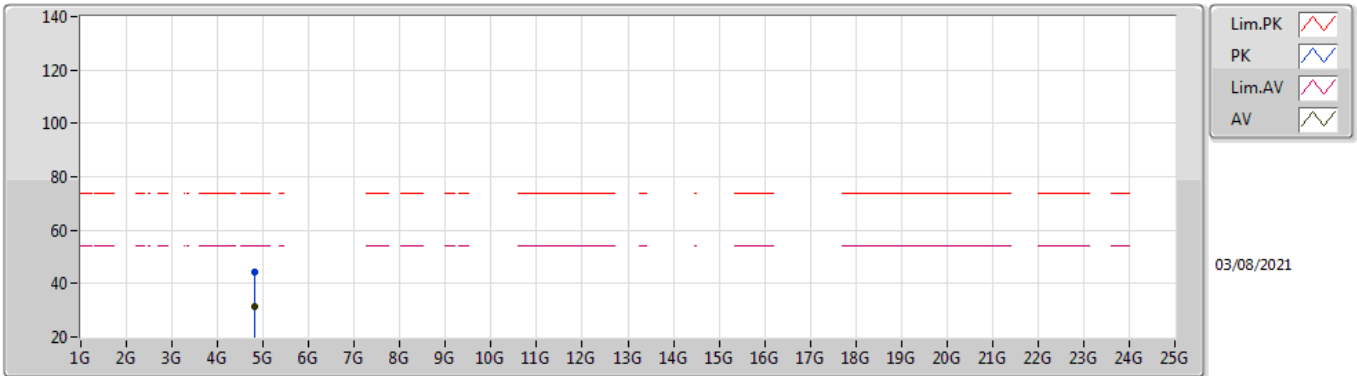


EUT Y_2TX
Setting 17.5
04-F-E-2

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	4.82412G	45.69	74.00	-28.31	40.41	3	Vertical	21	1.80	-	32.80	4.70	32.22
AV	4.824G	36.72	54.00	-17.28	31.44	3	Vertical	21	1.80	-	32.80	4.70	32.22

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

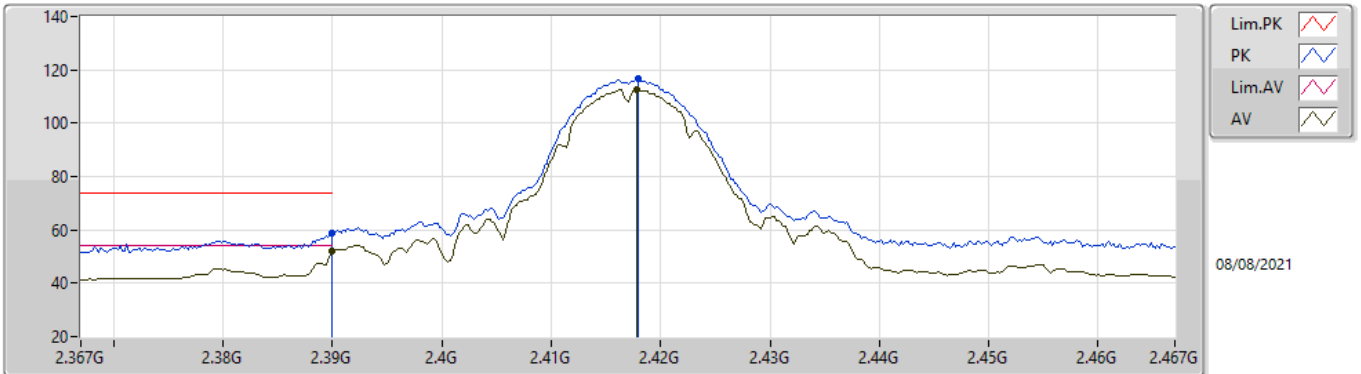


EUT Y_2TX
Setting 17.5
04-F-E-2

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	4.82414G	44.16	74.00	-29.84	38.88	3	Horizontal	19	1.80	-	32.80	4.70	32.22	
AV	4.8239G	31.25	54.00	-22.75	25.97	3	Horizontal	19	1.80	-	32.80	4.70	32.22	

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

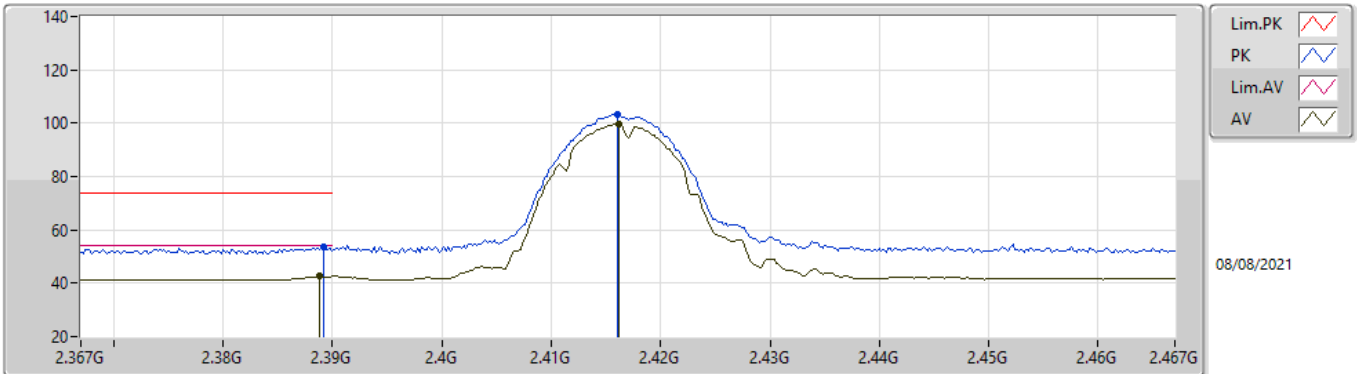


EUT Y_2TX
Setting 17.5
01-A-K-4

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	58.64	74.00	-15.36	29.07	3	Vertical	5	1.00	-	27.38	2.19	-
AV	2.39G	52.10	54.00	-1.90	22.53	3	Vertical	5	1.00	-	27.38	2.19	-
PK	2.418G	116.48	Inf	-Inf	86.82	3	Vertical	5	1.00	-	27.44	2.22	-
AV	2.4178G	112.52	Inf	-Inf	82.86	3	Vertical	5	1.00	-	27.44	2.22	-

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

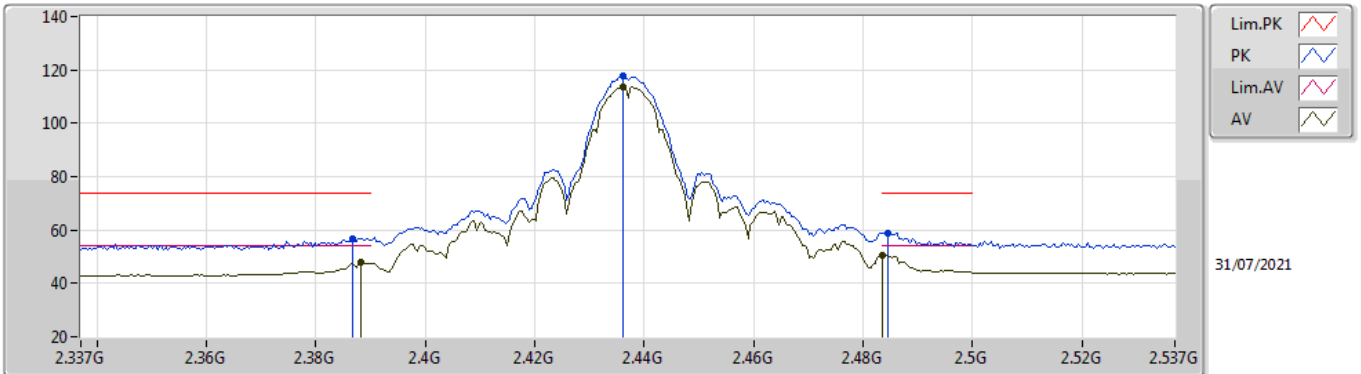


EUT Y_2TX
Setting 17.5
01-A-K-4

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	2.3892G	53.64	74.00	-20.36	24.07	3	Horizontal	332	1.51	-	27.38	2.19	-
AV	2.3888G	42.59	54.00	-11.41	13.02	3	Horizontal	332	1.51	-	27.38	2.19	-
PK	2.416G	103.41	Inf	-Inf	73.76	3	Horizontal	332	1.51	-	27.43	2.22	-
AV	2.4162G	99.67	Inf	-Inf	70.02	3	Horizontal	332	1.51	-	27.43	2.22	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

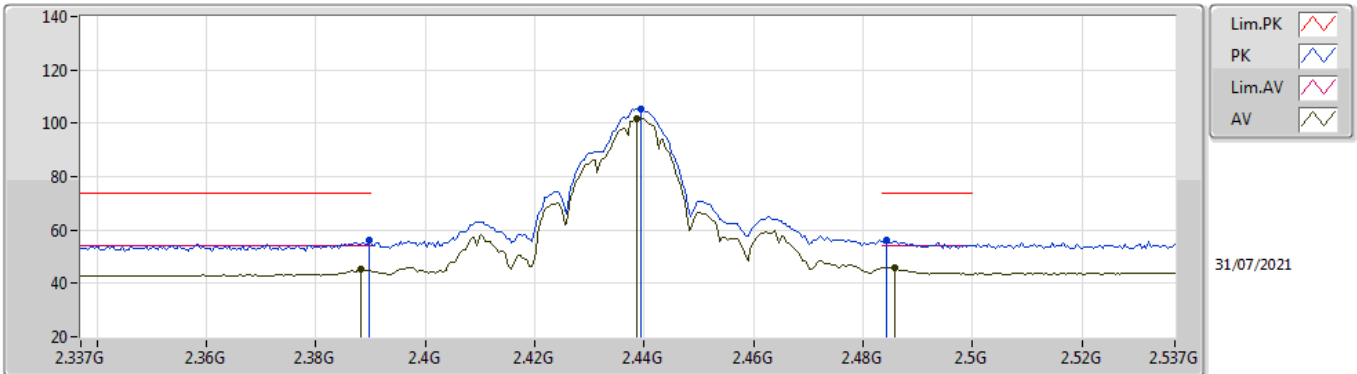


EUT_V_2TX
Setting 18.5
04-F-E-2

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	56.97	74.00	-17.03	26.30	3	Vertical	360	2.92	-	27.47	3.20	-
AV	2.3882G	48.13	54.00	-5.87	17.45	3	Vertical	360	2.92	-	27.48	3.20	-
PK	2.4362G	117.73	Inf	-Inf	86.92	3	Vertical	360	2.92	-	27.57	3.24	-
AV	2.4362G	113.86	Inf	-Inf	83.05	3	Vertical	360	2.92	-	27.57	3.24	-
PK	2.4846G	58.81	74.00	-15.19	27.79	3	Vertical	360	2.92	-	27.74	3.28	-
AV	2.4835G	50.53	54.00	-3.47	19.52	3	Vertical	360	2.92	-	27.73	3.28	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

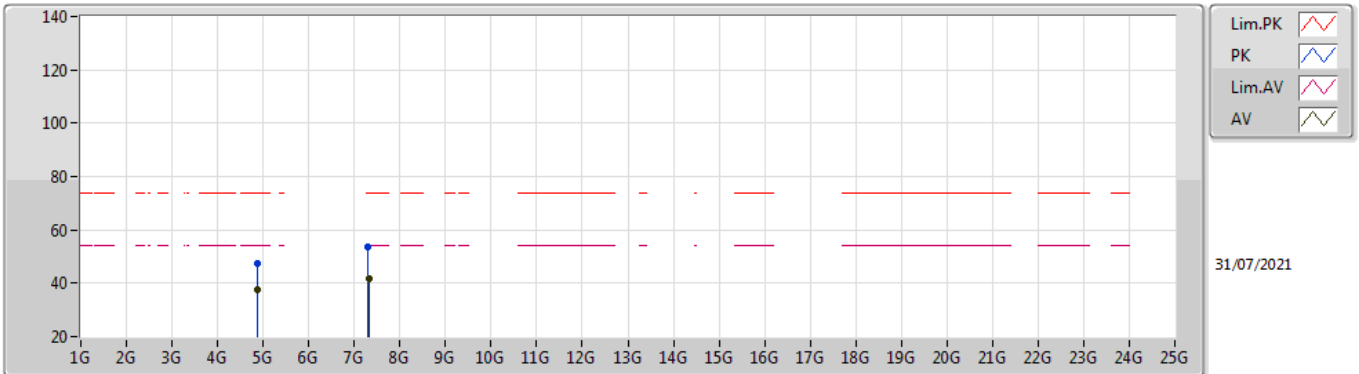


EUT_V_2TX
Setting 18.5
04-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	56.27	74.00	-17.73	25.59	3	Horizontal	169	1.33	-	27.48	3.20	-
AV	2.3882G	45.32	54.00	-8.68	14.64	3	Horizontal	169	1.33	-	27.48	3.20	-
PK	2.4394G	105.41	Inf	-Inf	74.59	3	Horizontal	169	1.33	-	27.58	3.24	-
AV	2.4386G	101.79	Inf	-Inf	70.97	3	Horizontal	169	1.33	-	27.58	3.24	-
PK	2.4842G	56.10	74.00	-17.90	25.08	3	Horizontal	169	1.33	-	27.74	3.28	-
AV	2.4858G	46.00	54.00	-8.00	14.97	3	Horizontal	169	1.33	-	27.74	3.29	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

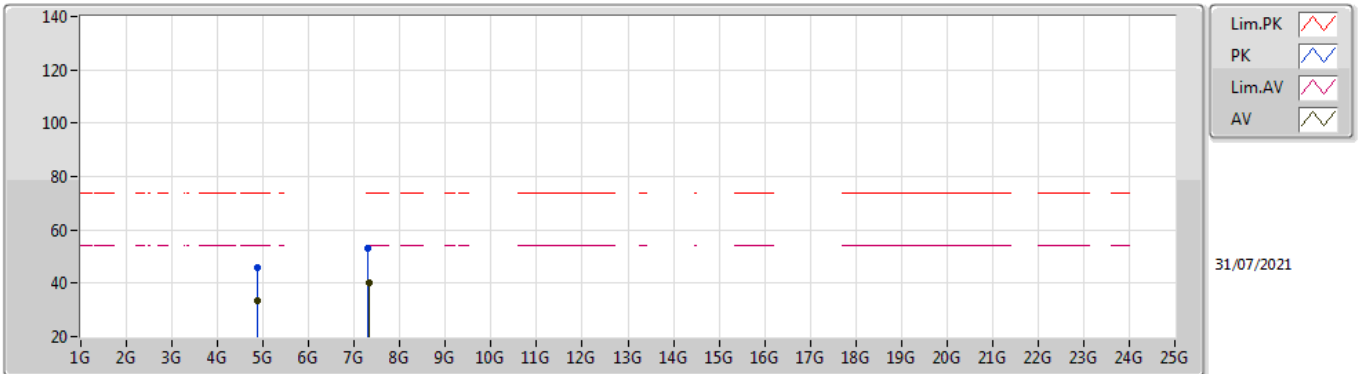


EUT V_2TX
Setting 18.5
04-F-E-2

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	4.87392G	47.40	74.00	-26.60	42.44	3	Vertical	5	1.80	-	32.75	5.44	33.23
AV	4.874G	37.59	54.00	-16.41	32.63	3	Vertical	5	1.80	-	32.75	5.44	33.23
PK	7.30984G	53.58	74.00	-20.42	42.99	3	Vertical	301	1.82	-	37.40	6.85	33.66
AV	7.31028G	41.53	54.00	-12.47	30.93	3	Vertical	301	1.82	-	37.40	6.86	33.66

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

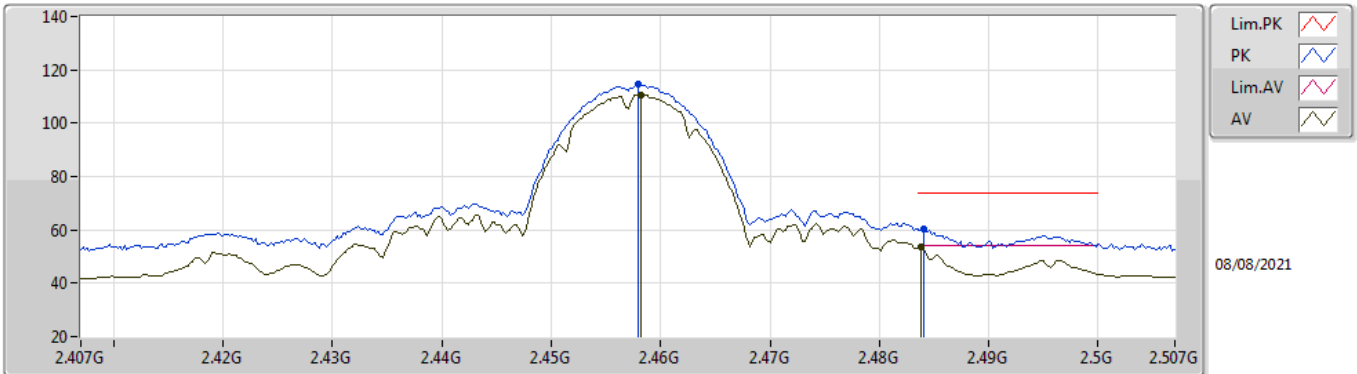


EUT_Y_2TX
Setting 18.5
04-F-E-2

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	4.88068G	46.08	74.00	-27.92	41.10	3	Horizontal	343	1.80	-	32.76	5.44	33.22
AV	4.874G	33.36	54.00	-20.64	28.40	3	Horizontal	343	1.80	-	32.75	5.44	33.23
PK	7.30344G	52.85	74.00	-21.15	42.25	3	Horizontal	355	1.80	-	37.40	6.85	33.65
AV	7.31028G	39.97	54.00	-14.03	29.37	3	Horizontal	355	1.80	-	37.40	6.86	33.66

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

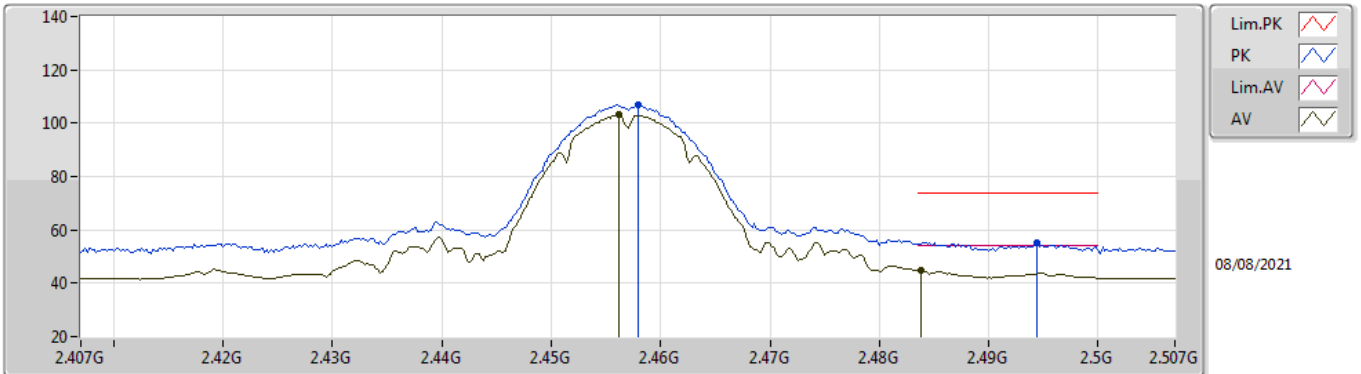


EUT Y_2TX
Setting 18
01-A-K-4

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	2.458G	114.62	Inf	-Inf	84.81	3	Vertical	324	1.06	-	27.55	2.26	-	
AV	2.4582G	110.56	Inf	-Inf	80.75	3	Vertical	324	1.06	-	27.55	2.26	-	
PK	2.484G	60.50	74.00	-13.50	30.52	3	Vertical	324	1.06	-	27.70	2.28	-	
AV	2.4838G	53.68	54.00	-0.32	23.70	3	Vertical	324	1.06	-	27.70	2.28	-	

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

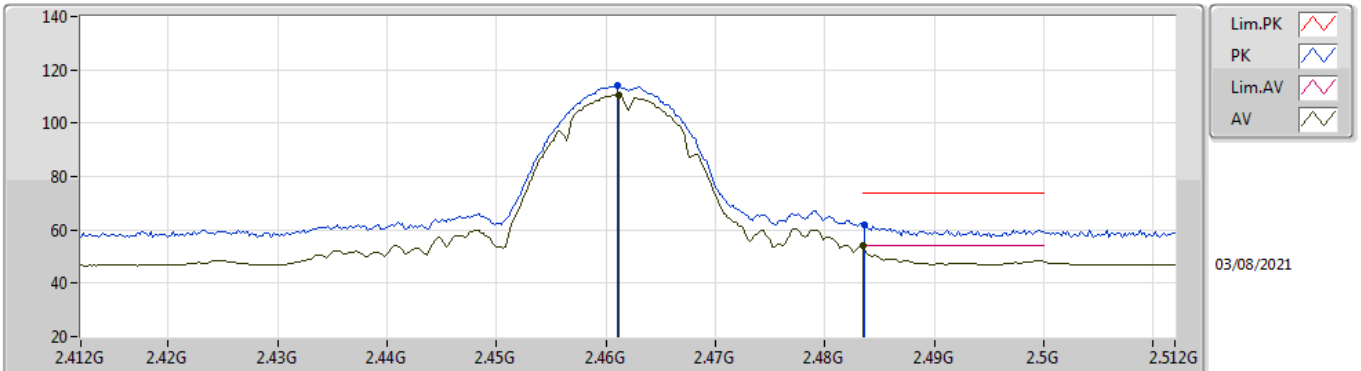


EUT Y_2TX
Setting 18
01-A-K-4

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	2.458G	106.76	Inf	-Inf	76.95	3	Horizontal	191	1.90	-	27.55	2.26	-
AV	2.4562G	103.03	Inf	-Inf	73.23	3	Horizontal	191	1.90	-	27.54	2.26	-
PK	2.4944G	55.32	74.00	-18.68	25.26	3	Horizontal	191	1.90	-	27.77	2.29	-
AV	2.4838G	45.00	54.00	-9.00	15.02	3	Horizontal	191	1.90	-	27.70	2.28	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

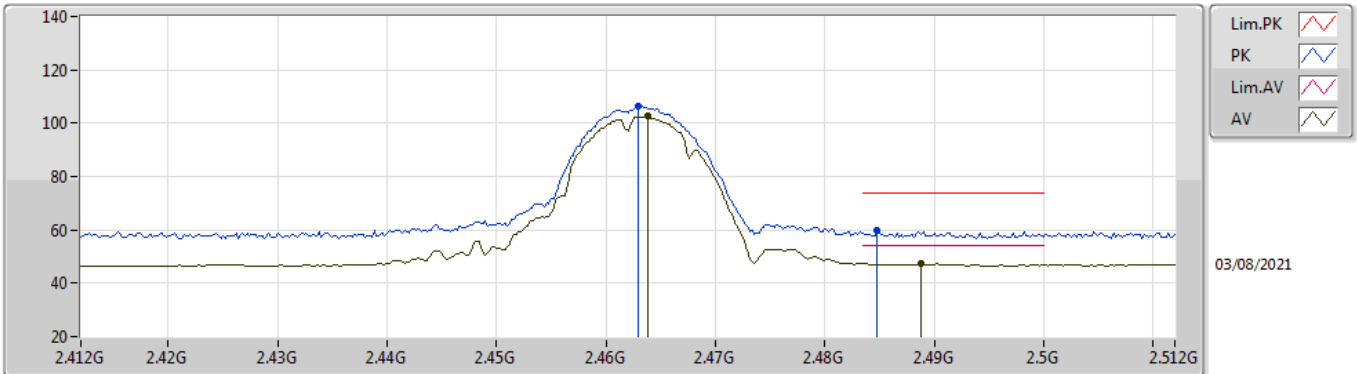


EUT Y_2TX
Setting 17
04-F-E-2

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	2.461G	114.33	Inf	-Inf	83.46	3	Vertical	50	1.15	-	28.44	2.43	-	
AV	2.4612G	110.57	Inf	-Inf	79.70	3	Vertical	50	1.15	-	28.44	2.43	-	
PK	2.4836G	61.87	74.00	-12.13	30.90	3	Vertical	50	1.15	-	28.53	2.44	-	
AV	2.4835G	53.96	54.00	-0.04	22.99	3	Vertical	50	1.15	-	28.53	2.44	-	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

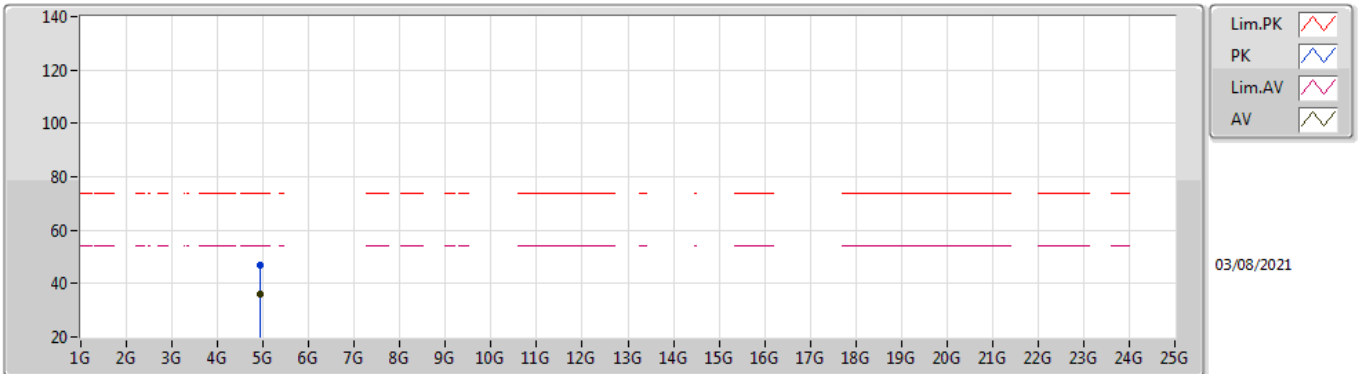


EUT_V_2TX
Setting 17
04-F-E-2

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	106.38	Inf	-Inf	75.50	3	Horizontal	184	1.37	-	28.45	2.43	-	
AV	2.4638G	102.51	Inf	-Inf	71.62	3	Horizontal	184	1.37	-	28.46	2.43	-	
PK	2.4848G	60.04	74.00	-13.96	29.06	3	Horizontal	184	1.37	-	28.54	2.44	-	
AV	2.4888G	47.47	54.00	-6.53	16.47	3	Horizontal	184	1.37	-	28.56	2.44	-	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

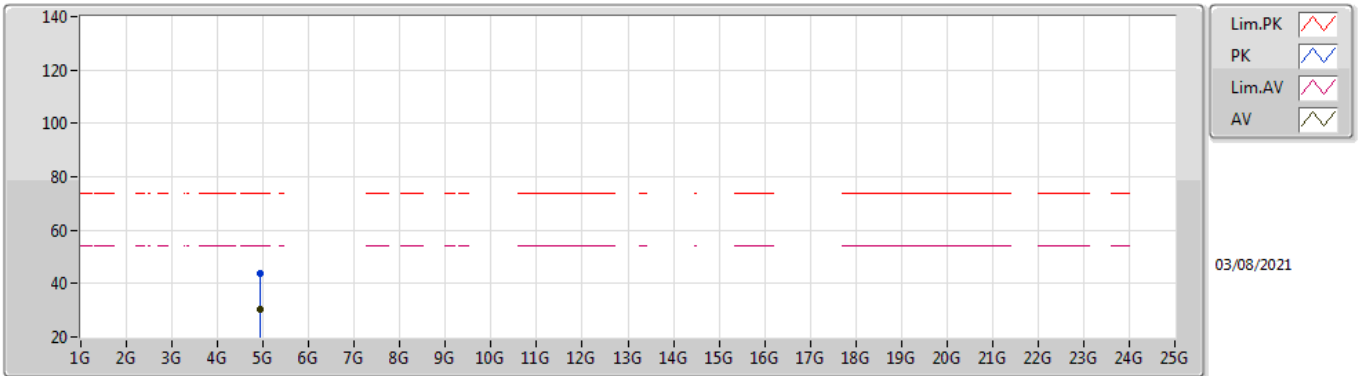


EUT Y_2TX
Setting 17
04-F-E-2

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	4.92422G	46.81	74.00	-27.19	41.15	3	Vertical	7	1.74	-	33.15	4.70	32.19	
AV	4.92406G	35.80	54.00	-18.20	30.15	3	Vertical	7	1.74	-	33.14	4.70	32.19	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

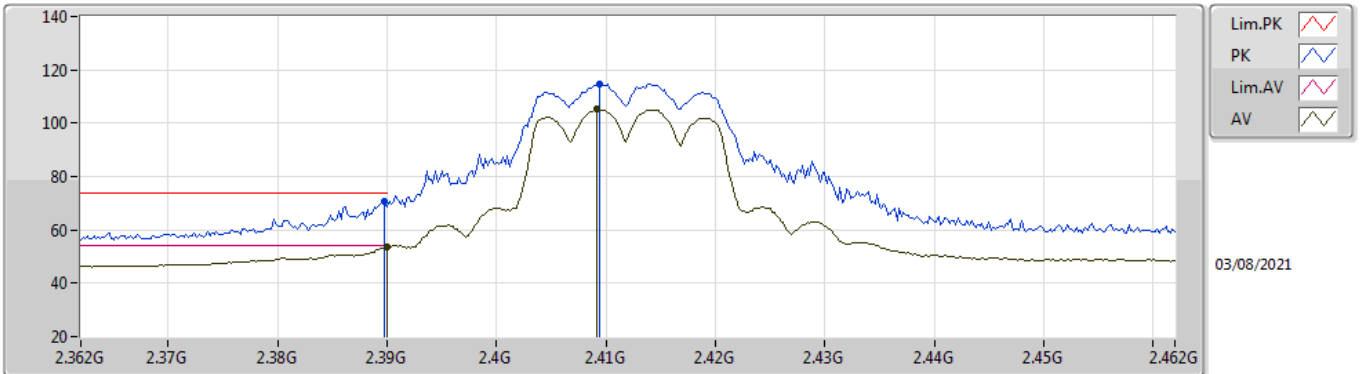


EUT Y_2TX
Setting 17
04-F-E-2

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	4.92566G	43.59	74.00	-30.41	37.93	3	Horizontal	339	1.92	-	33.15	4.70	32.19	
AV	4.92416G	30.58	54.00	-23.42	24.93	3	Horizontal	339	1.92	-	33.14	4.70	32.19	

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

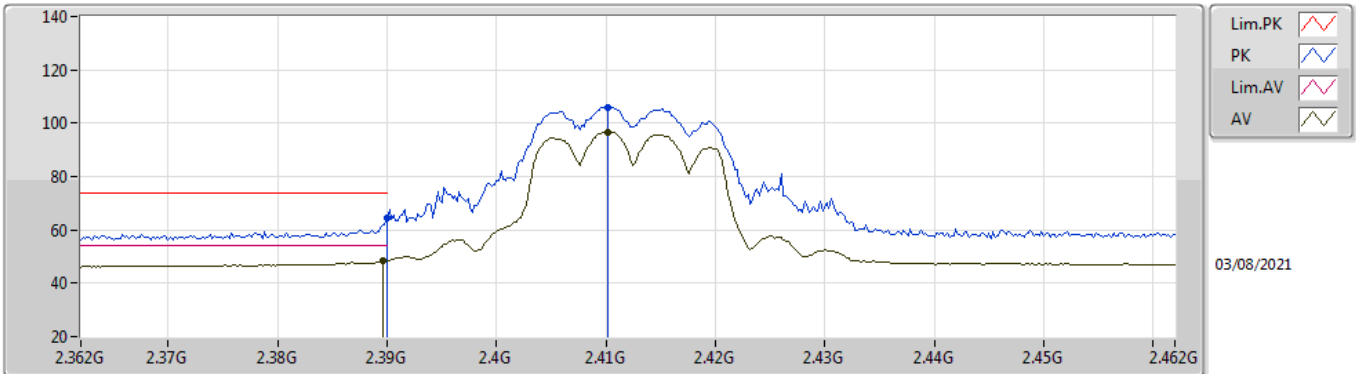


EUT Y_2TX
Setting 15
04-F-E-2

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	70.50	74.00	-3.50	39.71	3	Vertical	360	1.01	-	28.38	2.41	-
AV	2.39G	53.59	54.00	-0.41	22.80	3	Vertical	360	1.01	-	28.38	2.41	-
PK	2.4094G	114.65	Inf	-Inf	83.85	3	Vertical	360	1.01	-	28.40	2.40	-
AV	2.4092G	105.14	Inf	-Inf	74.34	3	Vertical	360	1.01	-	28.40	2.40	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

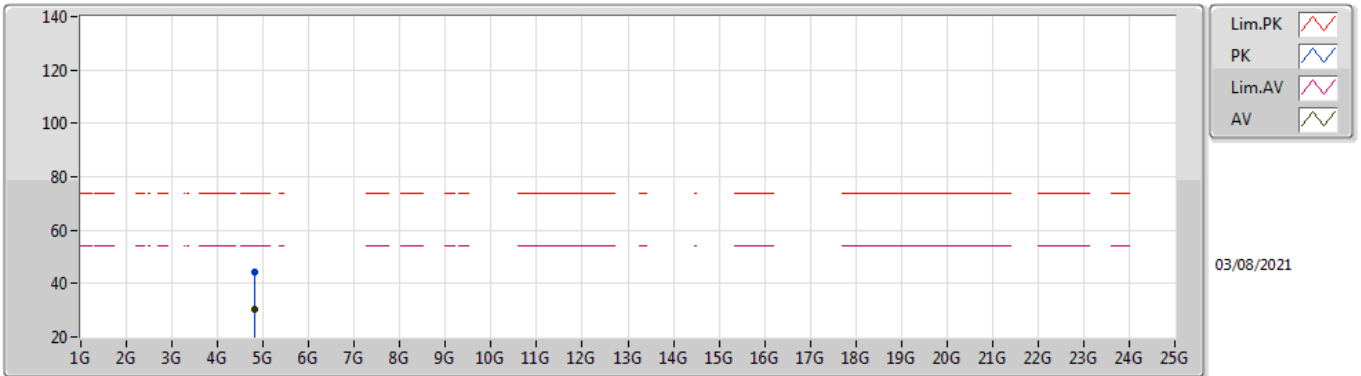


EUT Y_2TX
Setting 15
04-F-E-2

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	64.59	74.00	-9.41	33.80	3	Horizontal	208	1.80	-	28.38	2.41	-
AV	2.3896G	48.39	54.00	-5.61	17.60	3	Horizontal	208	1.80	-	28.38	2.41	-
PK	2.4102G	106.07	Inf	-Inf	75.26	3	Horizontal	208	1.80	-	28.40	2.41	-
AV	2.4102G	96.71	Inf	-Inf	65.90	3	Horizontal	208	1.80	-	28.40	2.41	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

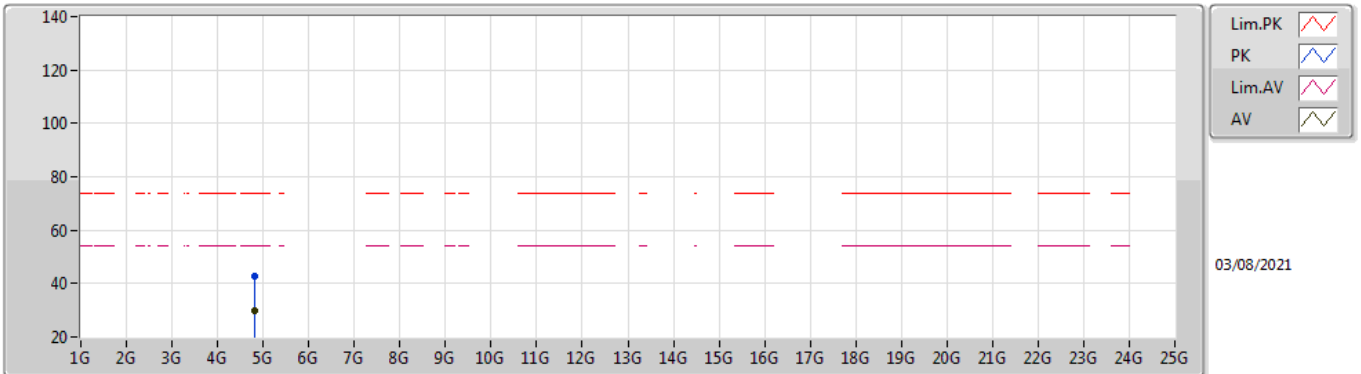


EUT Y_2TX
Setting 15
04-F-E-2

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	4.82434G	44.17	74.00	-29.83	38.89	3	Vertical	323	2.59	-	32.80	4.70	32.22
AV	4.82458G	30.19	54.00	-23.81	24.91	3	Vertical	323	2.59	-	32.80	4.70	32.22

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

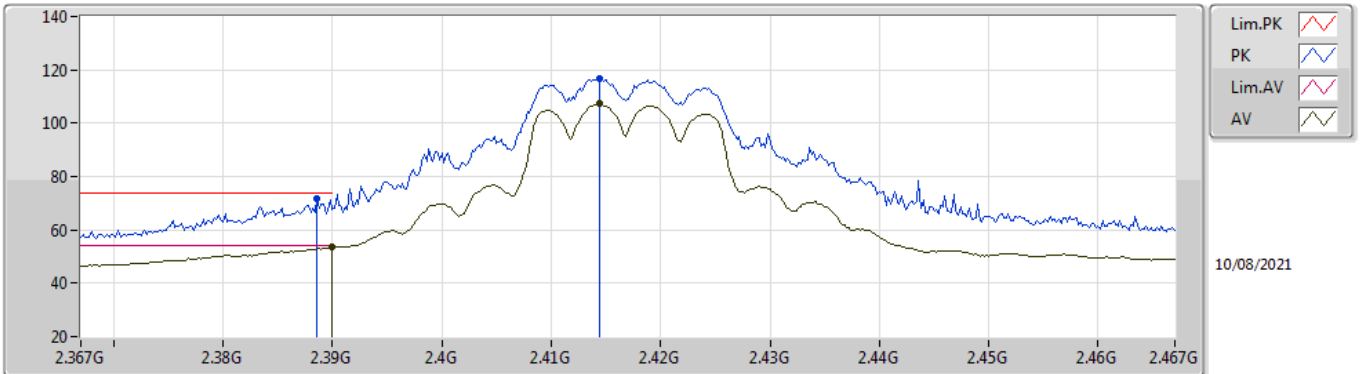


EUT Y_2TX
Setting 15
04-F-E-2

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	4.82358G	42.98	74.00	-31.02	37.71	3	Horizontal	69	2.82	-	32.79	4.70	32.22
AV	4.82406G	30.03	54.00	-23.97	24.75	3	Horizontal	69	2.82	-	32.80	4.70	32.22

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

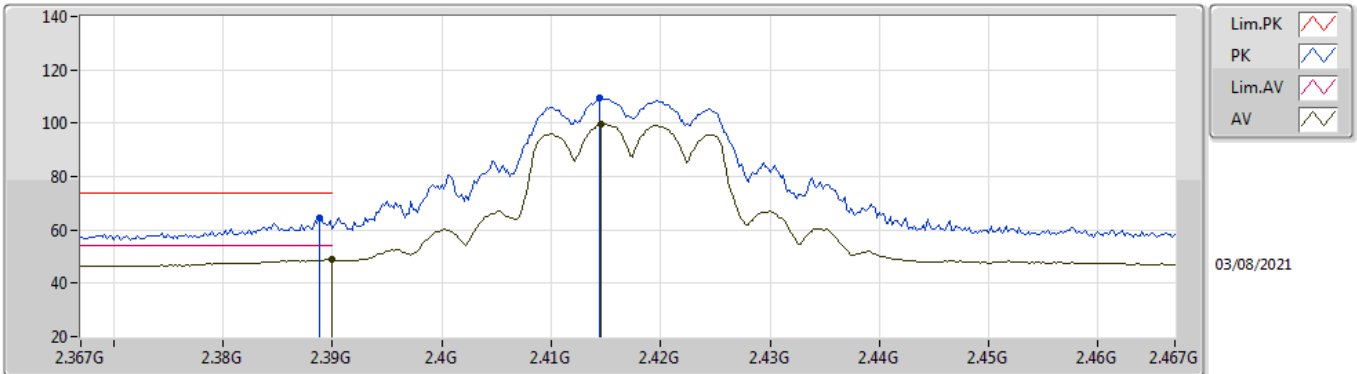


EUT Y_2TX
Setting 17
04-F-E-2

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	71.69	74.00	-2.31	40.90	3	Vertical	0	1.02	-	28.38	2.41	-
AV	2.39G	53.52	54.00	-0.48	22.74	3	Vertical	0	1.02	-	28.38	2.40	-
PK	2.4144G	116.64	Inf	-Inf	85.83	3	Vertical	0	1.02	-	28.40	2.41	-
AV	2.4144G	107.27	Inf	-Inf	76.46	3	Vertical	0	1.02	-	28.40	2.41	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

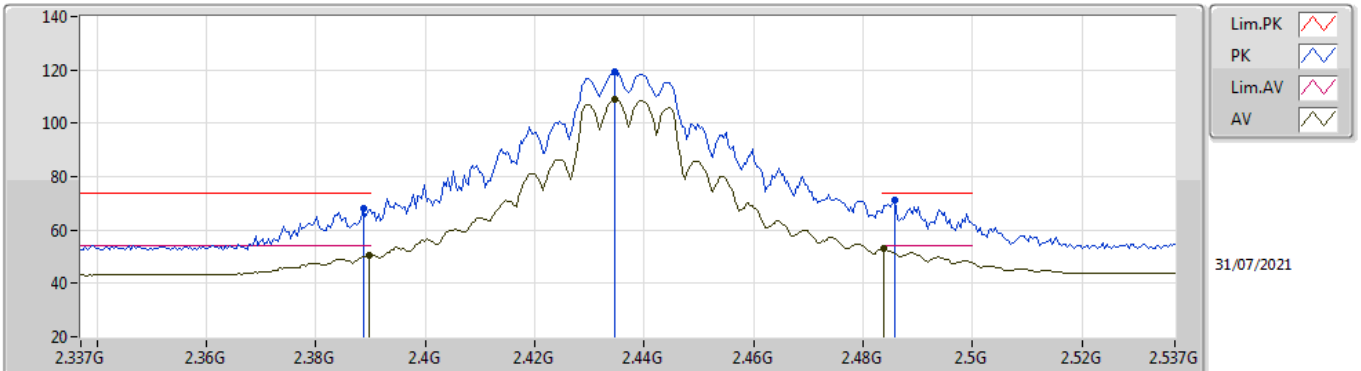


EUT_V_2TX
Setting 17
04-F-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3888G	64.61	74.00	-9.39	33.82	3	Horizontal	217	1.31	-	28.38	2.41	-	
AV	2.39G	48.89	54.00	-5.11	18.10	3	Horizontal	217	1.31	-	28.38	2.41	-	
PK	2.4144G	109.31	Inf	-Inf	78.50	3	Horizontal	217	1.31	-	28.40	2.41	-	
AV	2.4146G	99.67	Inf	-Inf	68.86	3	Horizontal	217	1.31	-	28.40	2.41	-	

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

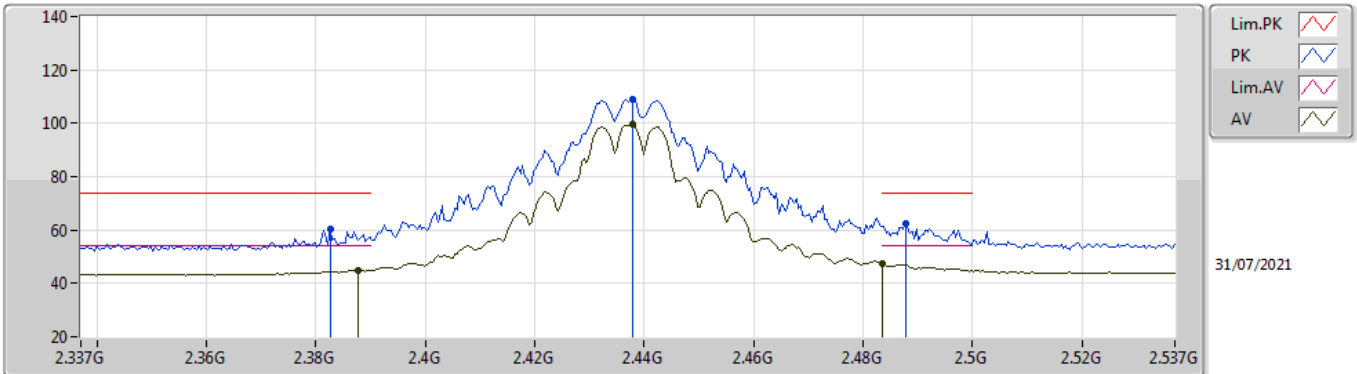


EUT_V_2TX
Setting 19.5
04-F-E-2

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	68.02	74.00	-5.98	37.34	3	Vertical	360	2.92	-	27.48	3.20	-
AV	2.3898G	50.35	54.00	-3.65	19.67	3	Vertical	360	2.92	-	27.48	3.20	-
PK	2.4346G	119.11	Inf	-Inf	88.31	3	Vertical	360	2.92	-	27.57	3.23	-
AV	2.4346G	108.92	Inf	-Inf	78.12	3	Vertical	360	2.92	-	27.57	3.23	-
PK	2.4858G	70.96	74.00	-3.04	39.93	3	Vertical	360	2.92	-	27.74	3.29	-
AV	2.4838G	52.85	54.00	-1.15	21.83	3	Vertical	360	2.92	-	27.74	3.28	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

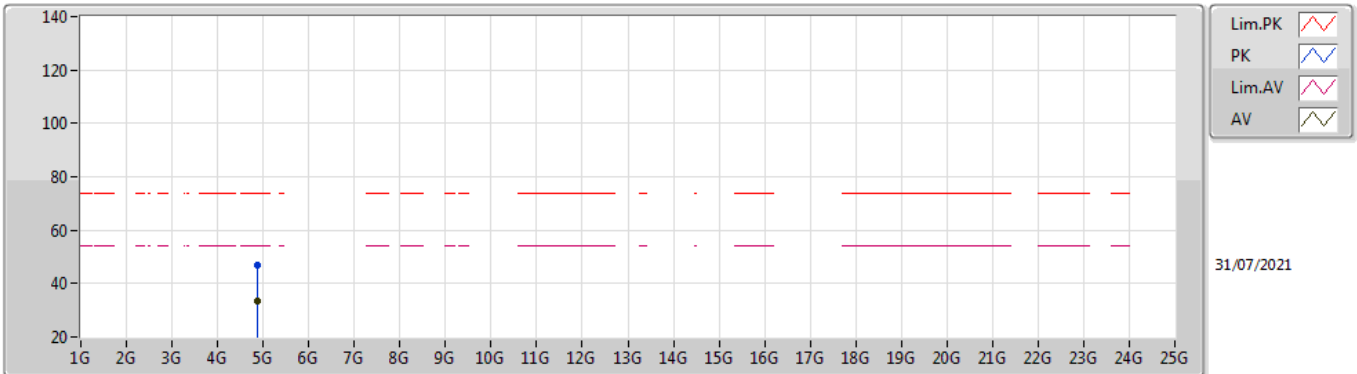


EUT_V_2TX
Setting 19.5
04-F-E-2

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	2.3826G	60.44	74.00	-13.56	29.77	3	Horizontal	176	1.98	-	27.47	3.20	-
AV	2.3878G	45.00	54.00	-9.00	14.32	3	Horizontal	176	1.98	-	27.48	3.20	-
PK	2.4378G	109.12	Inf	-Inf	78.30	3	Horizontal	176	1.98	-	27.58	3.24	-
AV	2.4378G	99.61	Inf	-Inf	68.79	3	Horizontal	176	1.98	-	27.58	3.24	-
PK	2.4878G	62.39	74.00	-11.61	31.35	3	Horizontal	176	1.98	-	27.75	3.29	-
AV	2.4835G	47.22	54.00	-6.78	16.21	3	Horizontal	176	1.98	-	27.73	3.28	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

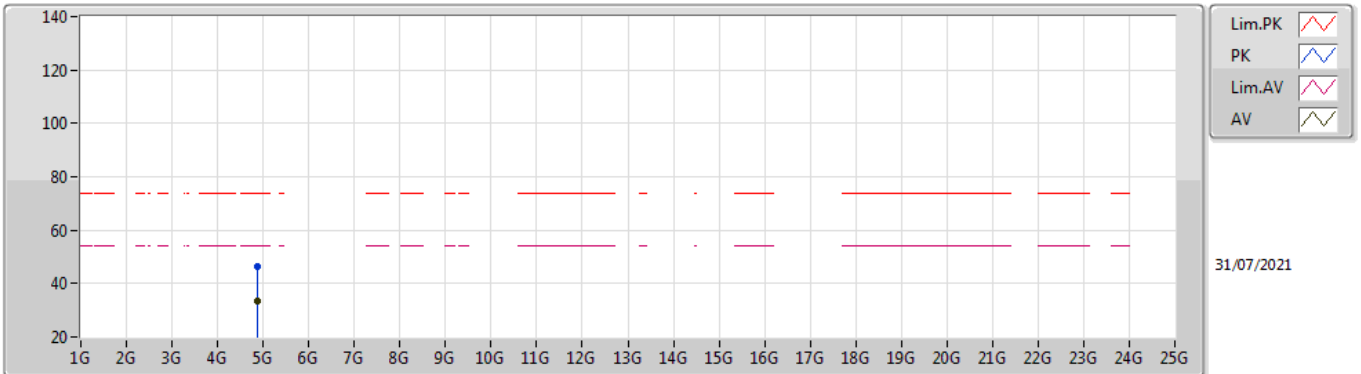


EUT Y_2TX
Setting 19.5
04-F-E-2

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	4.87628G	46.69	74.00	-27.31	41.72	3	Vertical	1	1.78	-	32.75	5.44	33.22	
AV	4.874G	33.64	54.00	-20.36	28.68	3	Vertical	1	1.78	-	32.75	5.44	33.23	

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

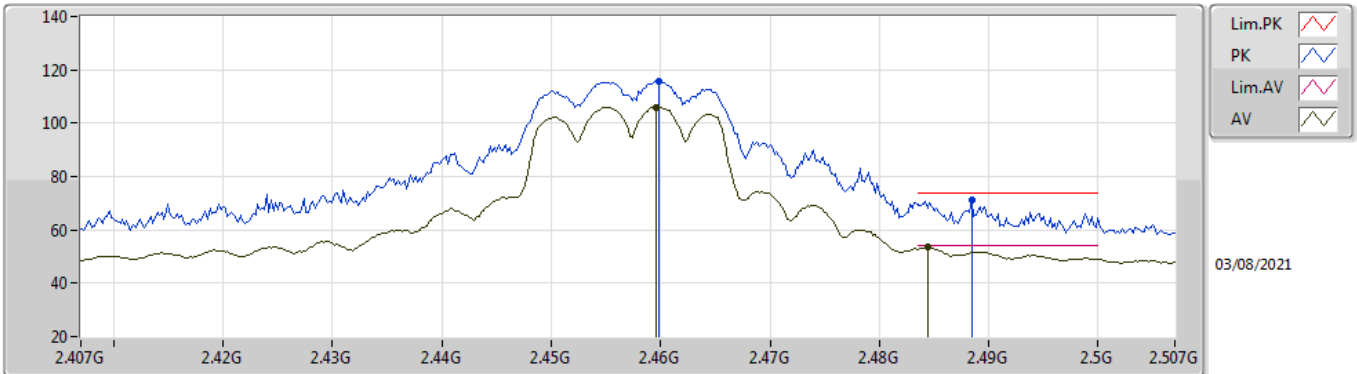


EUT Y_2TX
Setting 19.5
04-F-E-2

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	4.8818G	46.40	74.00	-27.60	41.42	3	Horizontal	330	1.80	-	32.76	5.44	33.22	
AV	4.87452G	33.48	54.00	-20.52	28.52	3	Horizontal	330	1.80	-	32.75	5.44	33.23	

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

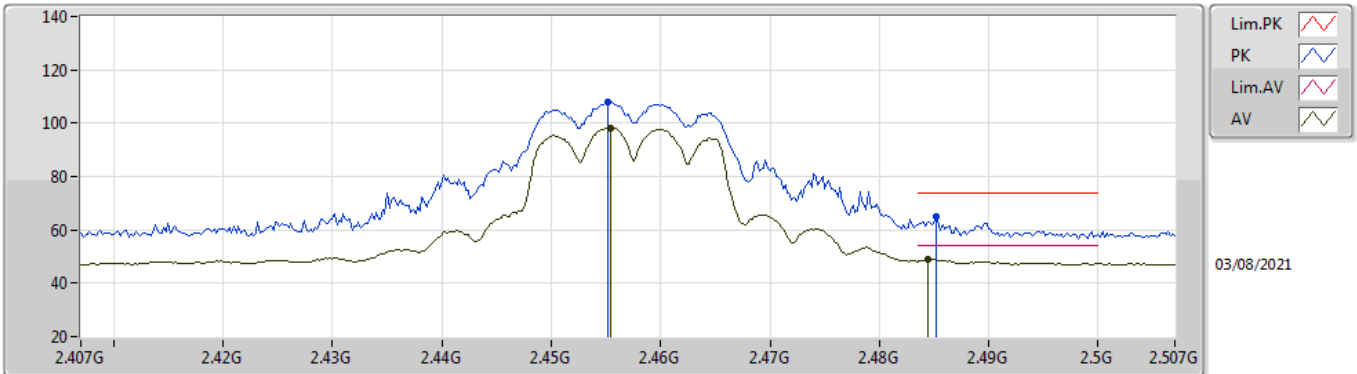


EUT_V_2TX
Setting 16.5
04-F-E-2

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	2.4598G	115.69	Inf	-Inf	84.82	3	Vertical	4	1.00	-	28.44	2.43	-
AV	2.4596G	106.02	Inf	-Inf	75.15	3	Vertical	4	1.00	-	28.44	2.43	-
PK	2.4884G	71.07	74.00	-2.93	40.08	3	Vertical	4	1.00	-	28.55	2.44	-
AV	2.4844G	53.61	54.00	-0.39	22.63	3	Vertical	4	1.00	-	28.54	2.44	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

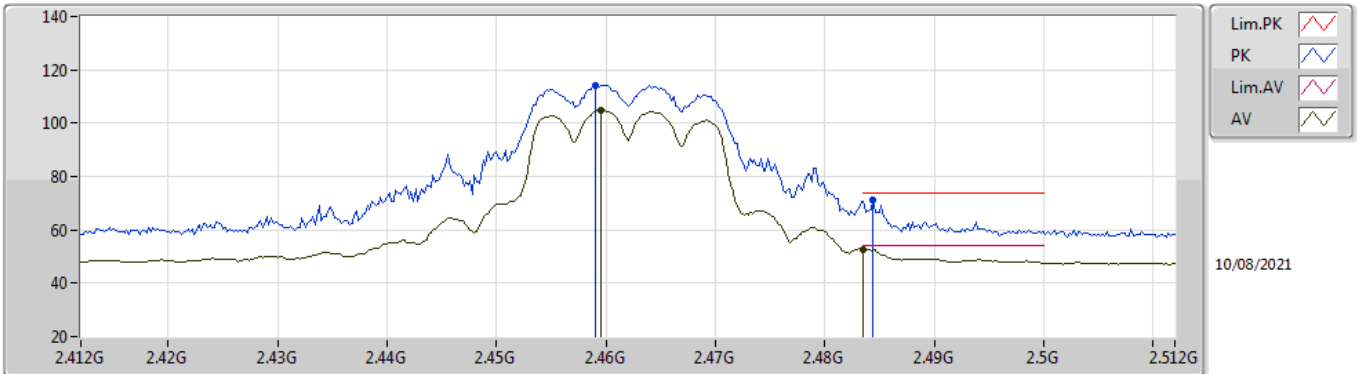


EUT_V_2TX
Setting 16.5
04-F-E-2

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	2.4552G	107.77	Inf	-Inf	76.92	3	Horizontal	212	1.71	-	28.42	2.43	-
AV	2.4554G	98.21	Inf	-Inf	67.36	3	Horizontal	212	1.71	-	28.42	2.43	-
PK	2.4852G	65.15	74.00	-8.85	34.17	3	Horizontal	212	1.71	-	28.54	2.44	-
AV	2.4844G	49.02	54.00	-4.98	18.04	3	Horizontal	212	1.71	-	28.54	2.44	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

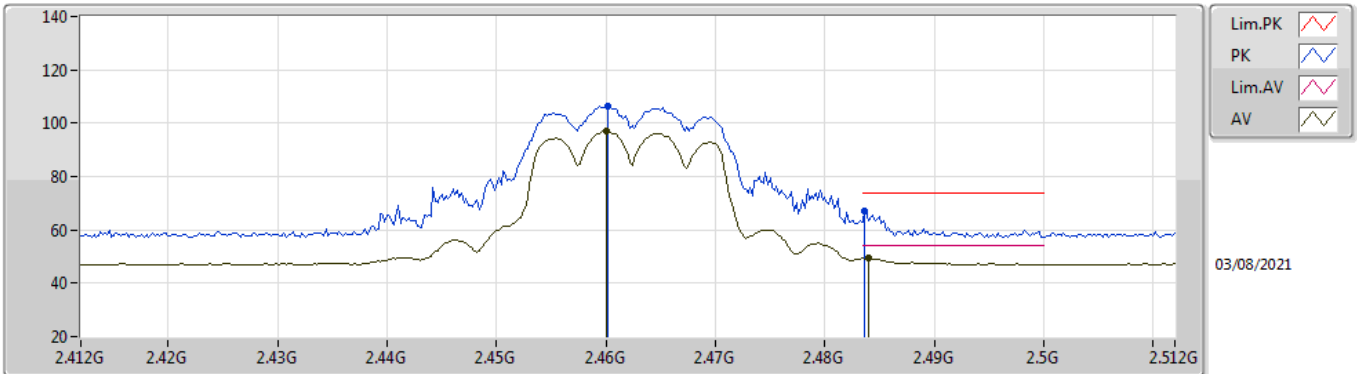


EUT_V_2TX
Setting 15
04-F-E-2

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	2.459G	114.23	Inf	-Inf	83.36	3	Vertical	0	2.66	-	28.44	2.43	-	
AV	2.4596G	104.94	Inf	-Inf	74.07	3	Vertical	0	2.66	-	28.44	2.43	-	
PK	2.4844G	71.12	74.00	-2.88	40.14	3	Vertical	0	2.66	-	28.54	2.44	-	
AV	2.4835G	52.65	54.00	-1.35	21.68	3	Vertical	0	2.66	-	28.53	2.44	-	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

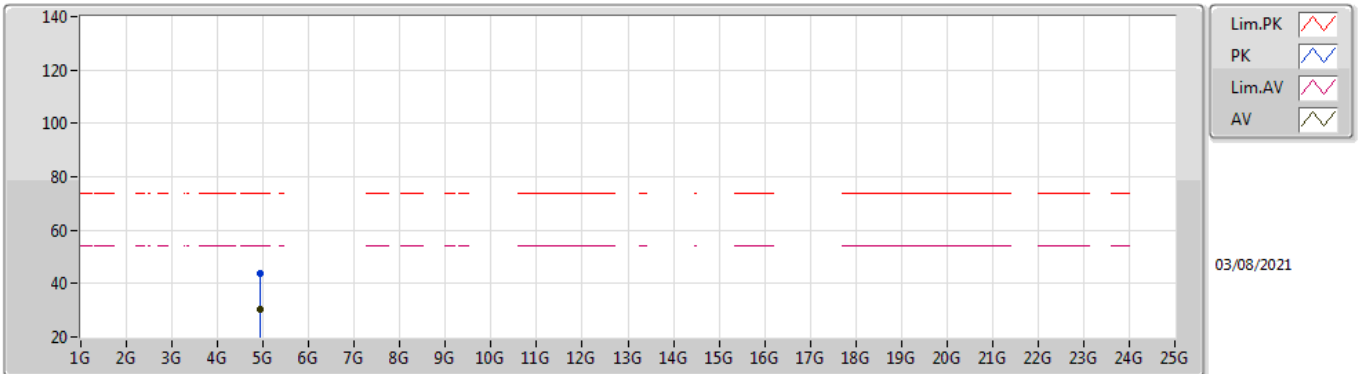


EUT_V_2TX
Setting 15
04-F-E-2

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	2.4602G	106.60	Inf	-Inf	75.73	3	Horizontal	211	1.68	-	28.44	2.43	-
AV	2.46G	96.84	Inf	-Inf	65.97	3	Horizontal	211	1.68	-	28.44	2.43	-
PK	2.4836G	67.22	74.00	-6.78	36.25	3	Horizontal	211	1.68	-	28.53	2.44	-
AV	2.484G	49.31	54.00	-4.69	18.33	3	Horizontal	211	1.68	-	28.54	2.44	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

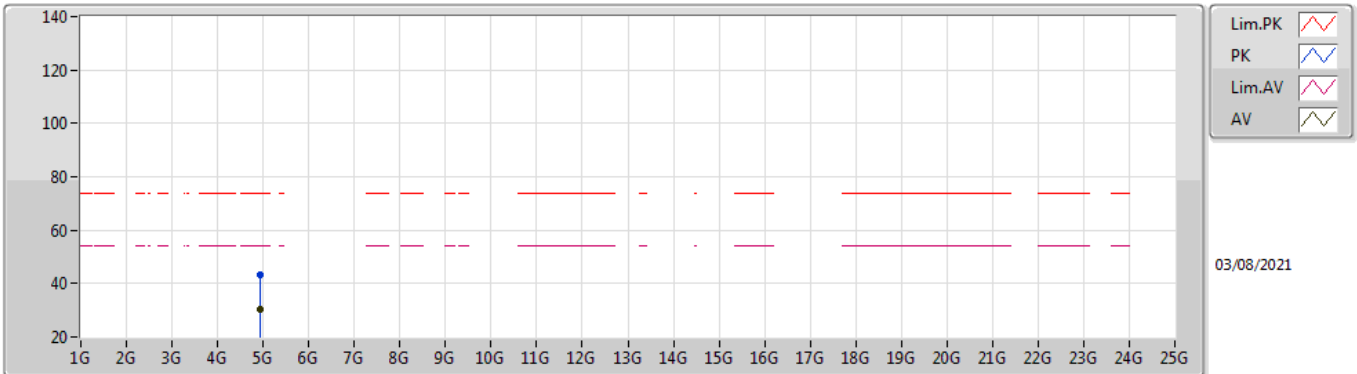


EUT Y_2TX
Setting 15
04-F-E-2

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	4.91958G	43.62	74.00	-30.38	37.99	3	Vertical	91	2.65	-	33.12	4.70	32.19
AV	4.92434G	30.47	54.00	-23.53	24.81	3	Vertical	91	2.65	-	33.15	4.70	32.19

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

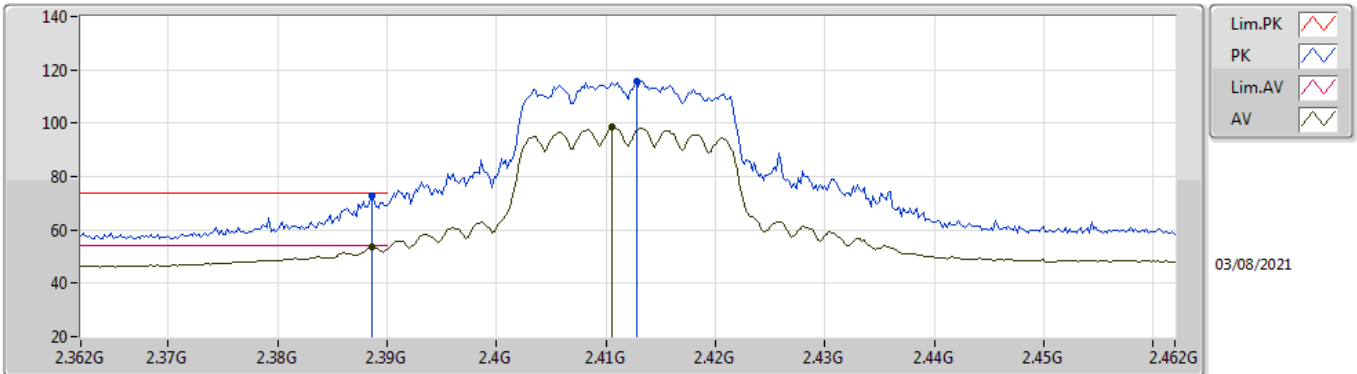


EUT Y_2TX
Setting 15
04-F-E-2

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	4.9252G	43.03	74.00	-30.97	37.37	3	Horizontal	192	1.40	-	33.15	4.70	32.19
AV	4.92576G	30.41	54.00	-23.59	24.75	3	Horizontal	192	1.40	-	33.15	4.70	32.19

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

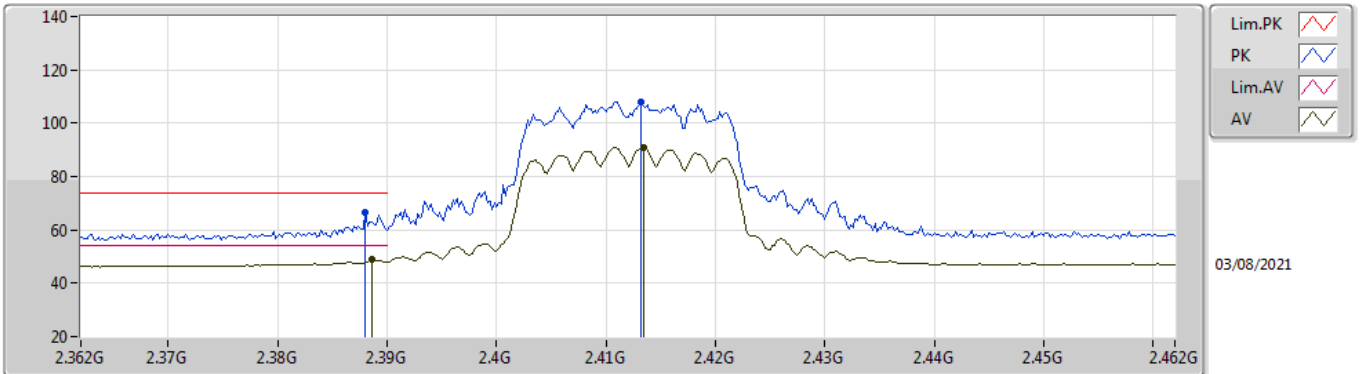


EUT_V_2TX
Setting 14.5
04-F-E-2

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	72.68	74.00	-1.32	41.89	3	Vertical	3	1.03	-	28.38	2.41	-
AV	2.3886G	53.69	54.00	-0.31	22.90	3	Vertical	3	1.03	-	28.38	2.41	-
PK	2.4128G	115.66	Inf	-Inf	84.85	3	Vertical	3	1.03	-	28.40	2.41	-
AV	2.4106G	98.41	Inf	-Inf	67.60	3	Vertical	3	1.03	-	28.40	2.41	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

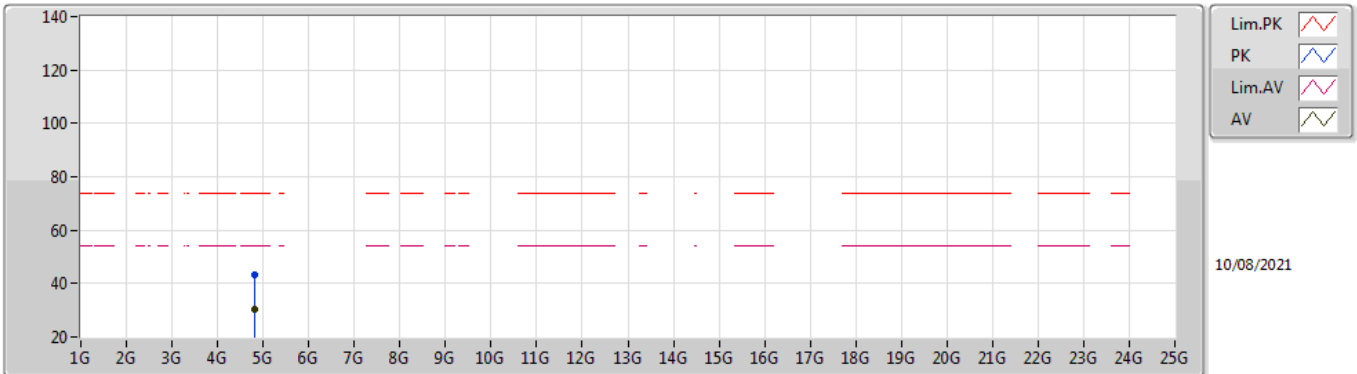


EUT_V_2TX
Setting 14.5
04-F-E-2

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	2.388G	66.38	74.00	-7.62	35.59	3	Horizontal	215	1.34	-	28.38	2.41	-
AV	2.3886G	48.75	54.00	-5.25	17.96	3	Horizontal	215	1.34	-	28.38	2.41	-
PK	2.4132G	108.18	Inf	-Inf	77.37	3	Horizontal	215	1.34	-	28.40	2.41	-
AV	2.4134G	90.74	Inf	-Inf	59.93	3	Horizontal	215	1.34	-	28.40	2.41	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

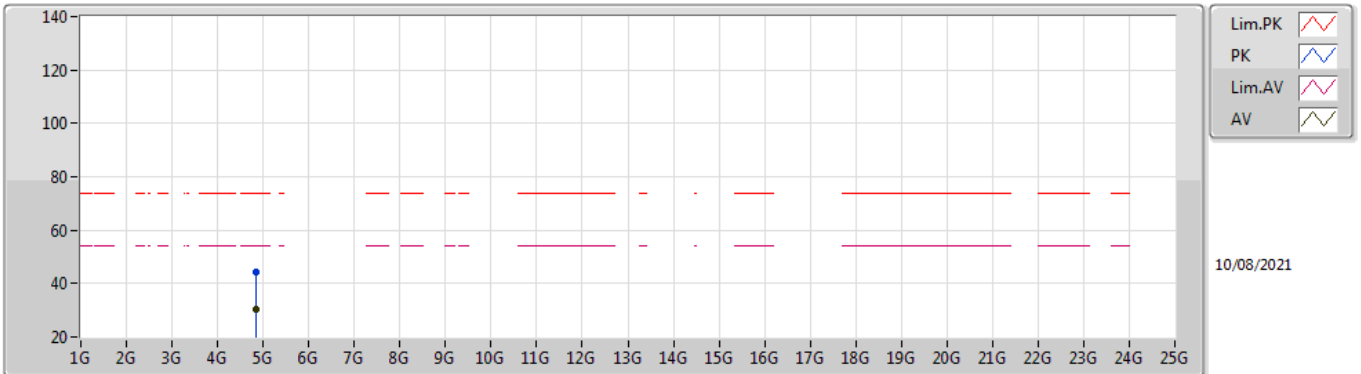


EUT Y_2TX
Setting 14.5
04-F-R-5

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	4.81386G	43.32	74.00	-30.68	38.09	3	Vertical	0	1.15	-	32.76	4.70	32.23
AV	4.8237G	30.35	54.00	-23.65	25.08	3	Vertical	0	1.15	-	32.79	4.70	32.22

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

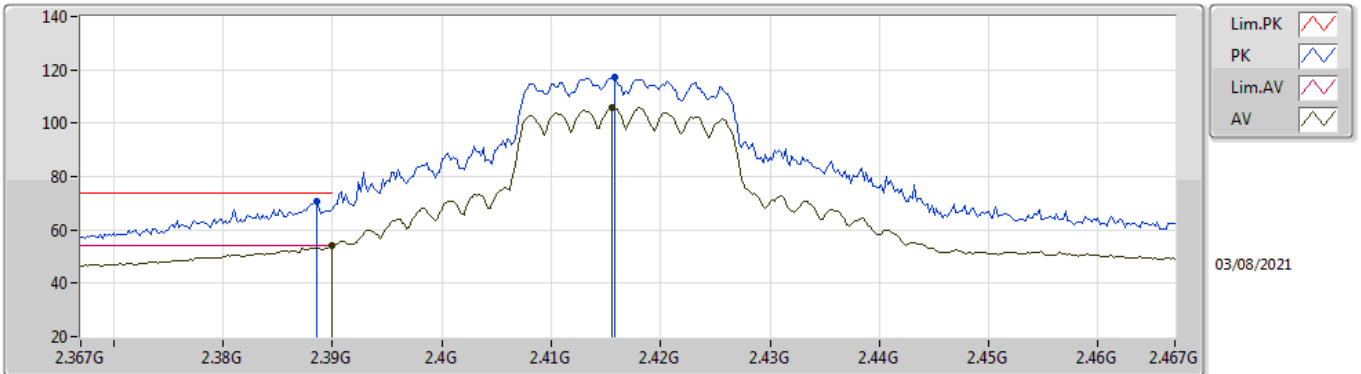


EUT Y_2TX
Setting 14.5
04-F-R-5

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	4.83852G	44.25	74.00	-29.75	38.92	3	Horizontal	0	3.00	-	32.85	4.70	32.22
AV	4.83594G	30.48	54.00	-23.52	25.16	3	Horizontal	0	3.00	-	32.84	4.70	32.22

802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

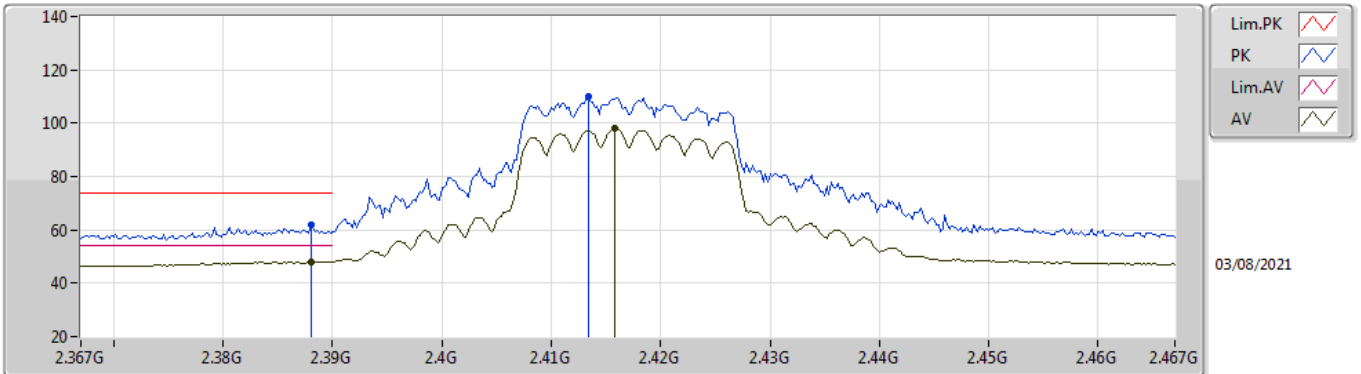


EUT Y_2TX
Setting 16.5
04-F-E-2

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	70.52	74.00	-3.48	39.73	3	Vertical	360	1.18	-	28.38	2.41	-
AV	2.39G	53.98	54.00	-0.02	23.19	3	Vertical	360	1.18	-	28.38	2.41	-
PK	2.4158G	117.32	Inf	-Inf	86.51	3	Vertical	360	1.18	-	28.40	2.41	-
AV	2.4156G	105.92	Inf	-Inf	75.11	3	Vertical	360	1.18	-	28.40	2.41	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

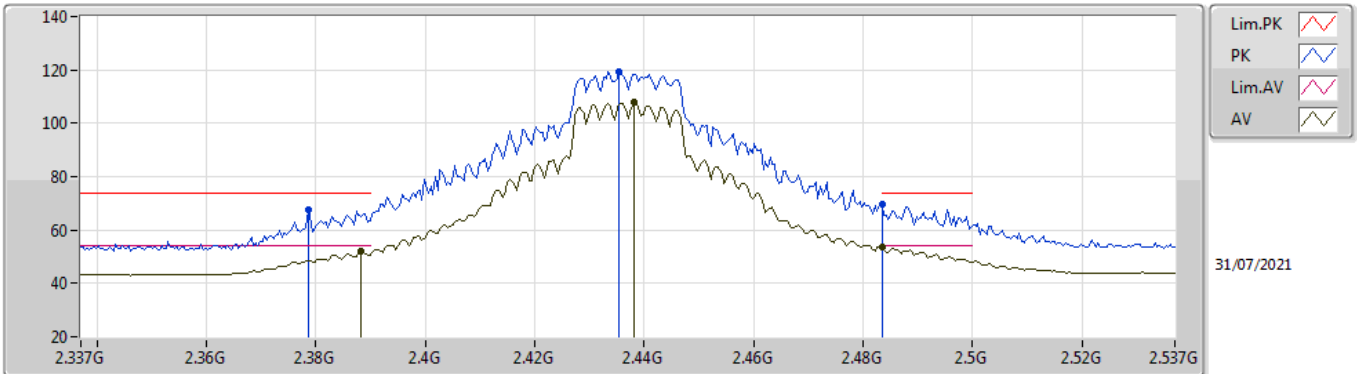


EUT_V_2TX
Setting 16.5
04-F-E-2

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	2.388G	61.77	74.00	-12.23	30.98	3	Horizontal	213	1.73	-	28.38	2.41	-
AV	2.388G	48.01	54.00	-5.99	17.22	3	Horizontal	213	1.73	-	28.38	2.41	-
PK	2.4134G	109.85	Inf	-Inf	79.04	3	Horizontal	213	1.73	-	28.40	2.41	-
AV	2.4158G	98.16	Inf	-Inf	67.35	3	Horizontal	213	1.73	-	28.40	2.41	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

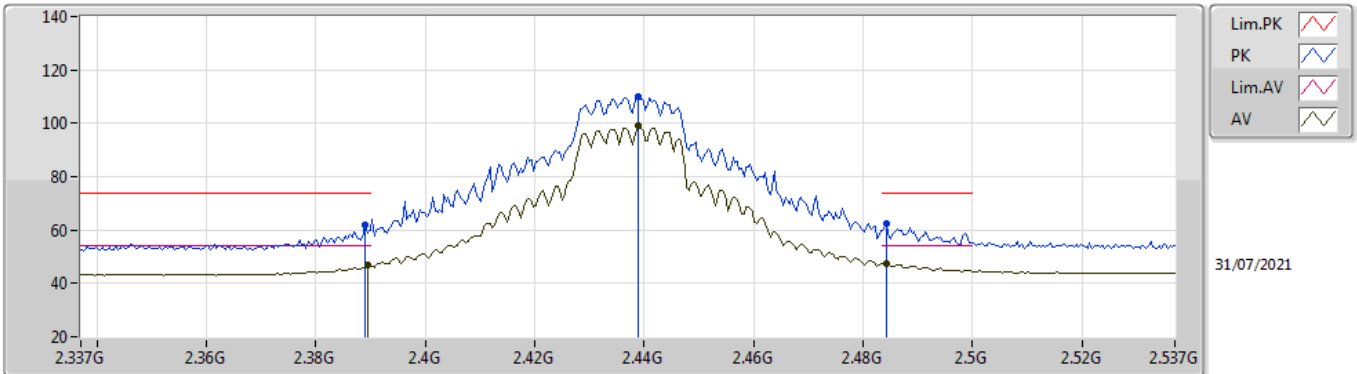


EUT_V_2TX
Setting 19.5
04-F-E-2

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	2.3786G	67.66	74.00	-6.34	37.00	3	Vertical	357	2.93	-	27.46	3.20	-
AV	2.3882G	52.04	54.00	-1.96	21.36	3	Vertical	357	2.93	-	27.48	3.20	-
PK	2.4354G	119.30	Inf	-Inf	88.49	3	Vertical	357	2.93	-	27.57	3.24	-
AV	2.4382G	107.68	Inf	-Inf	76.86	3	Vertical	357	2.93	-	27.58	3.24	-
PK	2.4835G	69.54	74.00	-4.46	38.53	3	Vertical	357	2.93	-	27.73	3.28	-
AV	2.4835G	53.56	54.00	-0.44	22.55	3	Vertical	357	2.93	-	27.73	3.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

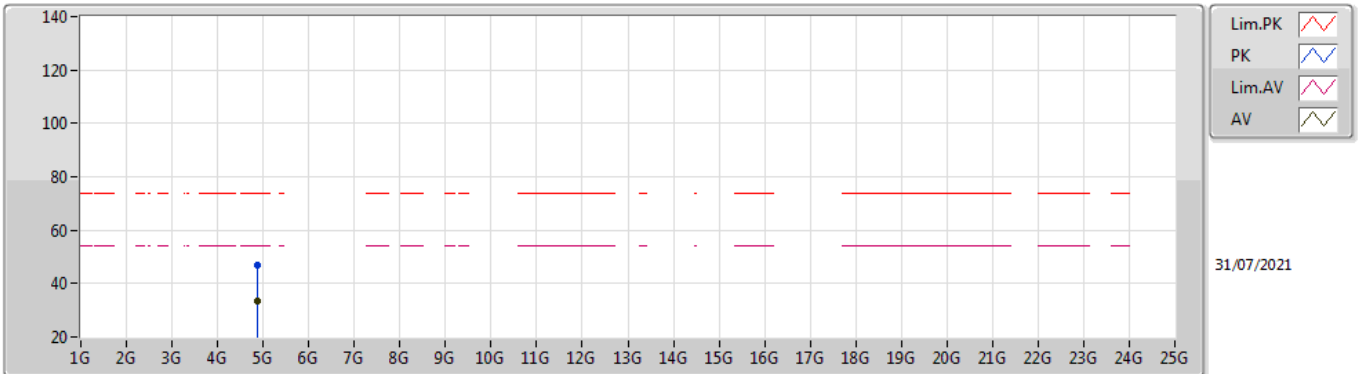


EUT_V_2TX
Setting 19.5
04-F-E-2

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	61.89	74.00	-12.11	31.21	3	Horizontal	204	1.64	-	27.48	3.20	-
AV	2.3894G	46.65	54.00	-7.35	15.97	3	Horizontal	204	1.64	-	27.48	3.20	-
PK	2.439G	109.97	Inf	-Inf	79.15	3	Horizontal	204	1.64	-	27.58	3.24	-
AV	2.439G	99.00	Inf	-Inf	68.18	3	Horizontal	204	1.64	-	27.58	3.24	-
PK	2.4842G	62.25	74.00	-11.75	31.23	3	Horizontal	204	1.64	-	27.74	3.28	-
AV	2.4842G	47.43	54.00	-6.57	16.41	3	Horizontal	204	1.64	-	27.74	3.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

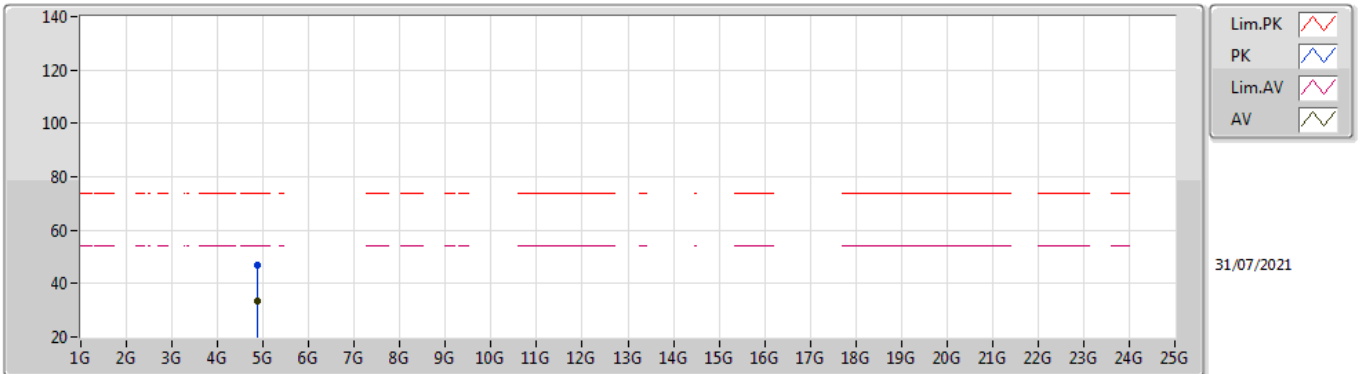


EUT Y_2TX
Setting 19.5
04-F-E-2

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	4.87084G	46.95	74.00	-27.05	42.00	3	Vertical	360	2.96	-	32.74	5.44	33.23	
AV	4.87996G	33.44	54.00	-20.56	28.46	3	Vertical	360	2.96	-	32.76	5.44	33.22	

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

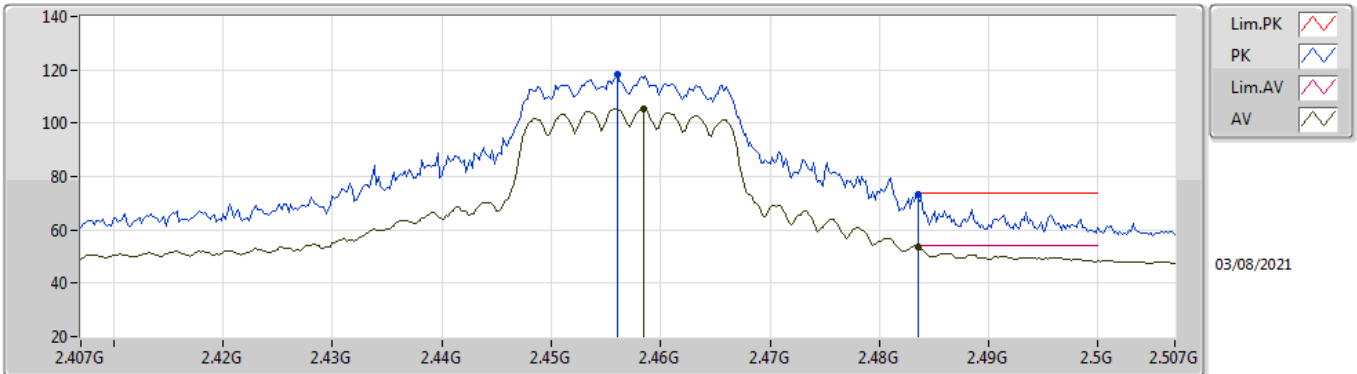


EUT Y_2TX
Setting 19.5
04-F-E-2

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	4.866G	46.66	74.00	-27.34	41.73	3	Horizontal	281	1.80	-	32.73	5.43	33.23	
AV	4.87728G	33.34	54.00	-20.66	28.37	3	Horizontal	281	1.80	-	32.75	5.44	33.22	

802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

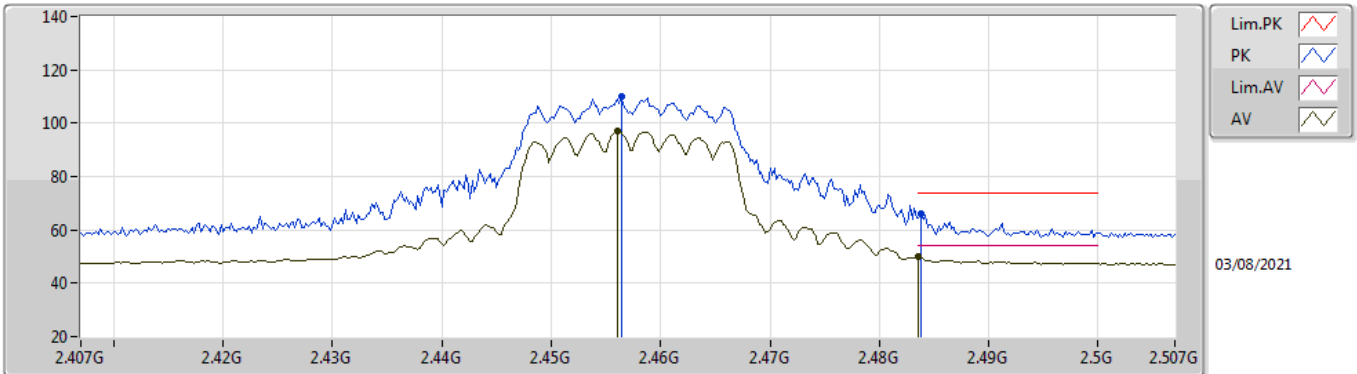


EUT V_2TX
Setting 16
04-F-E-2

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	118.03	Inf	-Inf	87.18	3	Vertical	2	2.67	-	28.42	2.43	-	
AV	2.4584G	105.46	Inf	-Inf	74.60	3	Vertical	2	2.67	-	28.43	2.43	-	
PK	2.4835G	73.30	74.00	-0.70	42.33	3	Vertical	2	2.67	-	28.53	2.44	-	
AV	2.4835G	53.56	54.00	-0.44	22.59	3	Vertical	2	2.67	-	28.53	2.44	-	

802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

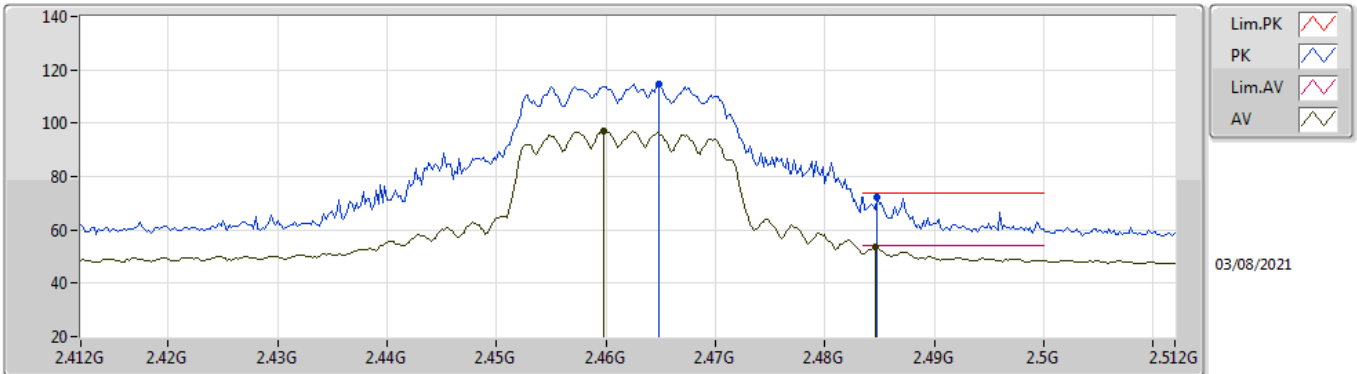


EUT_V_2TX
Setting 16
04-F-E-2

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	2.4564G	109.78	Inf	-Inf	78.92	3	Horizontal	210	1.70	-	28.43	2.43	-
AV	2.456G	97.02	Inf	-Inf	66.17	3	Horizontal	210	1.70	-	28.42	2.43	-
PK	2.4838G	65.98	74.00	-8.02	35.00	3	Horizontal	210	1.70	-	28.54	2.44	-
AV	2.4835G	50.09	54.00	-3.91	19.12	3	Horizontal	210	1.70	-	28.53	2.44	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

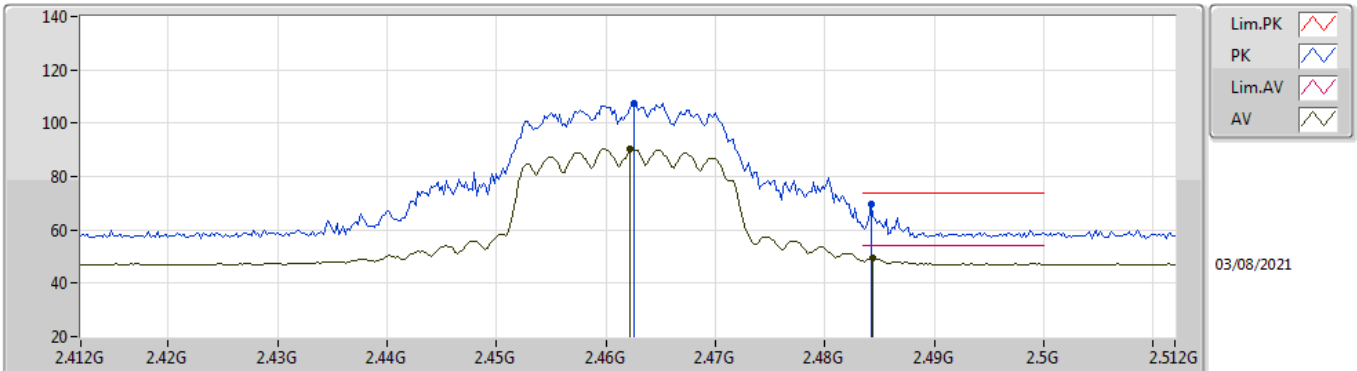


EUT V_2TX
Setting 14.5
04-F-E-2

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	2.4648G	114.47	Inf	-Inf	83.58	3	Vertical	13	1.00	-	28.46	2.43	-	
AV	2.4598G	97.25	Inf	-Inf	66.38	3	Vertical	13	1.00	-	28.44	2.43	-	
PK	2.4848G	72.46	74.00	-1.54	41.48	3	Vertical	13	1.00	-	28.54	2.44	-	
AV	2.4846G	53.57	54.00	-0.43	22.59	3	Vertical	13	1.00	-	28.54	2.44	-	

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

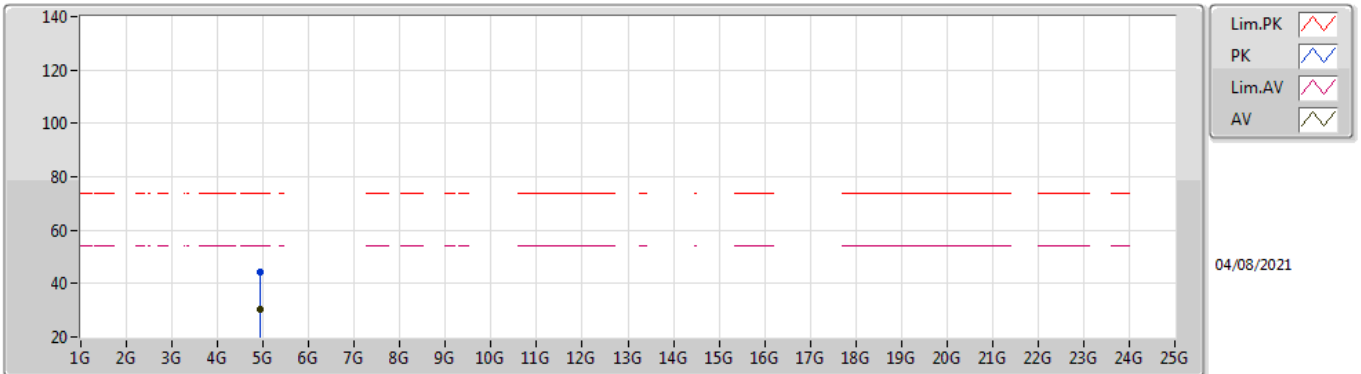


EUT V_2TX
Setting 14.5
04-F-E-2

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	2.4626G	107.44	Inf	-Inf	76.56	3	Horizontal	208	1.91	-	28.45	2.43	-
AV	2.4622G	90.12	Inf	-Inf	59.24	3	Horizontal	208	1.91	-	28.45	2.43	-
PK	2.4842G	69.67	74.00	-4.33	38.69	3	Horizontal	208	1.91	-	28.54	2.44	-
AV	2.4844G	49.50	54.00	-4.50	18.52	3	Horizontal	208	1.91	-	28.54	2.44	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

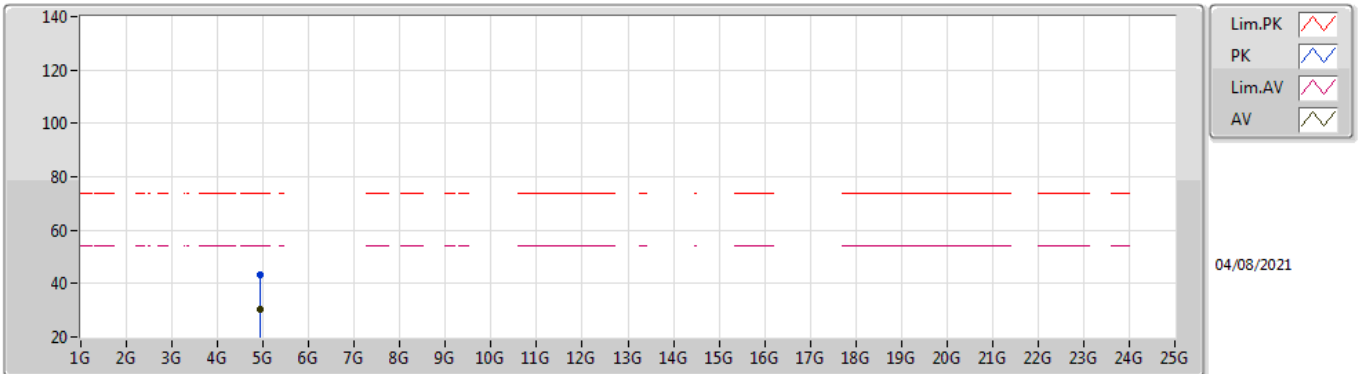


EUT Y_2TX
Setting 14.5
04-F-R-5

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	4.93768G	44.08	74.00	-29.92	38.33	3	Vertical	257	1.80	-	33.23	4.70	32.18
AV	4.9243G	30.58	54.00	-23.42	24.92	3	Vertical	257	1.80	-	33.15	4.70	32.19

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

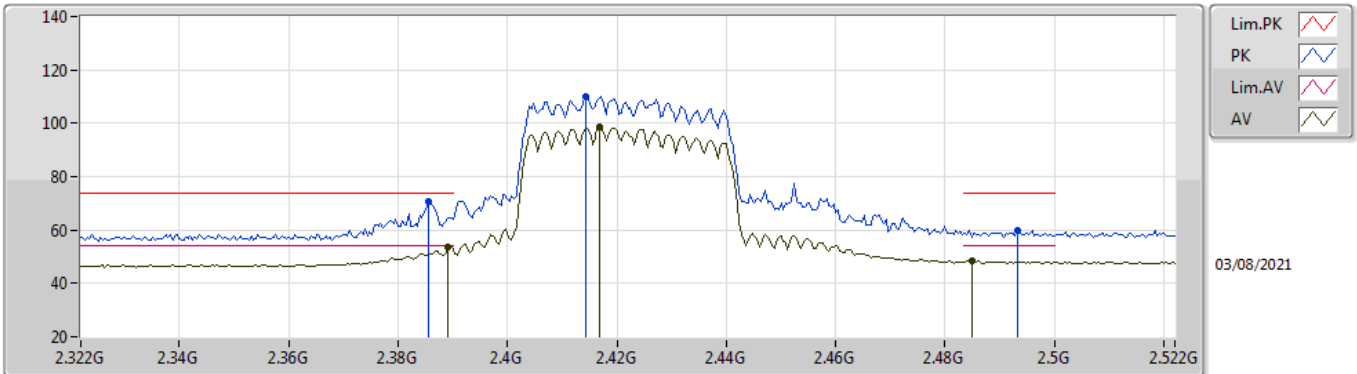


EUT Y_2TX
Setting 14.5
04-F-R-5

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	4.9321G	43.09	74.00	-30.91	37.38	3	Horizontal	305	2.90	-	33.19	4.70	32.18
AV	4.92886G	30.21	54.00	-23.79	24.53	3	Horizontal	305	2.90	-	33.17	4.70	32.19

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

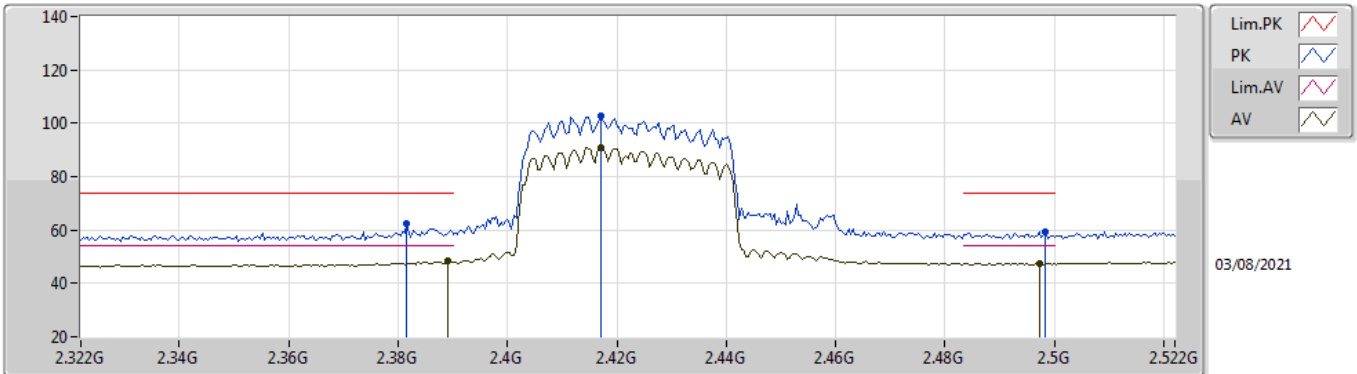


EUT_V_2TX
Setting 12.5
04-F-E-2

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	2.3856G	70.79	74.00	-3.21	40.01	3	Vertical	360	1.16	-	28.37	2.41	-
AV	2.3892G	53.70	54.00	-0.30	22.91	3	Vertical	360	1.16	-	28.38	2.41	-
PK	2.4144G	110.11	Inf	-Inf	79.30	3	Vertical	360	1.16	-	28.40	2.41	-
AV	2.4168G	98.65	Inf	-Inf	67.84	3	Vertical	360	1.16	-	28.40	2.41	-
PK	2.4932G	60.01	74.00	-13.99	28.99	3	Vertical	360	1.16	-	28.57	2.45	-
AV	2.4848G	48.46	54.00	-5.54	17.48	3	Vertical	360	1.16	-	28.54	2.44	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

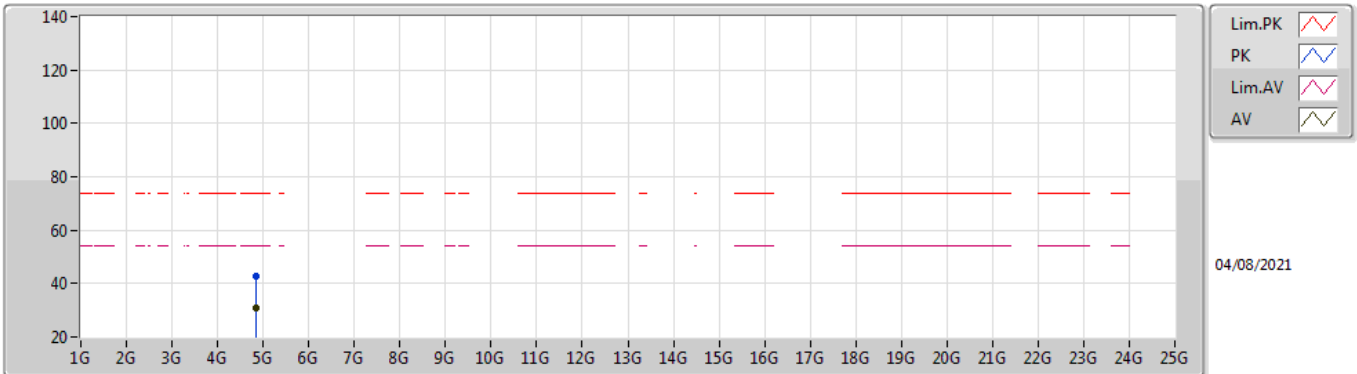


EUT_V_2TX
Setting 12.5
04-F-E-2

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	2.3816G	62.32	74.00	-11.68	31.55	3	Horizontal	214	1.74	-	28.36	2.41	-
AV	2.3892G	48.24	54.00	-5.76	17.45	3	Horizontal	214	1.74	-	28.38	2.41	-
PK	2.4172G	102.79	Inf	-Inf	71.98	3	Horizontal	214	1.74	-	28.40	2.41	-
AV	2.4172G	90.75	Inf	-Inf	59.94	3	Horizontal	214	1.74	-	28.40	2.41	-
PK	2.4984G	59.30	74.00	-14.70	28.26	3	Horizontal	214	1.74	-	28.59	2.45	-
AV	2.4972G	47.46	54.00	-6.54	16.42	3	Horizontal	214	1.74	-	28.59	2.45	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

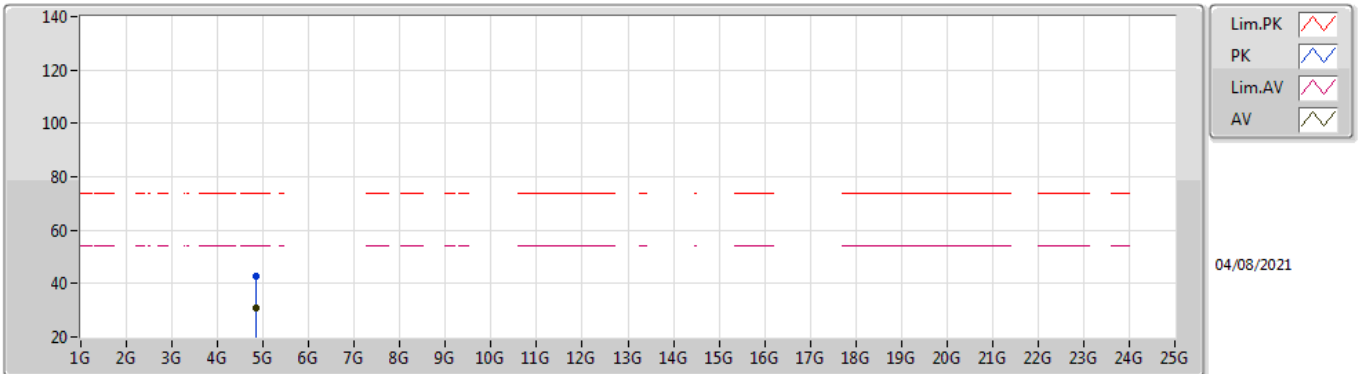


EUT Y_2TX
Setting 12.5
04-F-R-5

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	4.8323G	42.63	74.00	-31.37	37.32	3	Vertical	161	2.72	-	32.83	4.70	32.22
AV	4.8524G	30.75	54.00	-23.25	25.36	3	Vertical	161	2.72	-	32.90	4.70	32.21

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

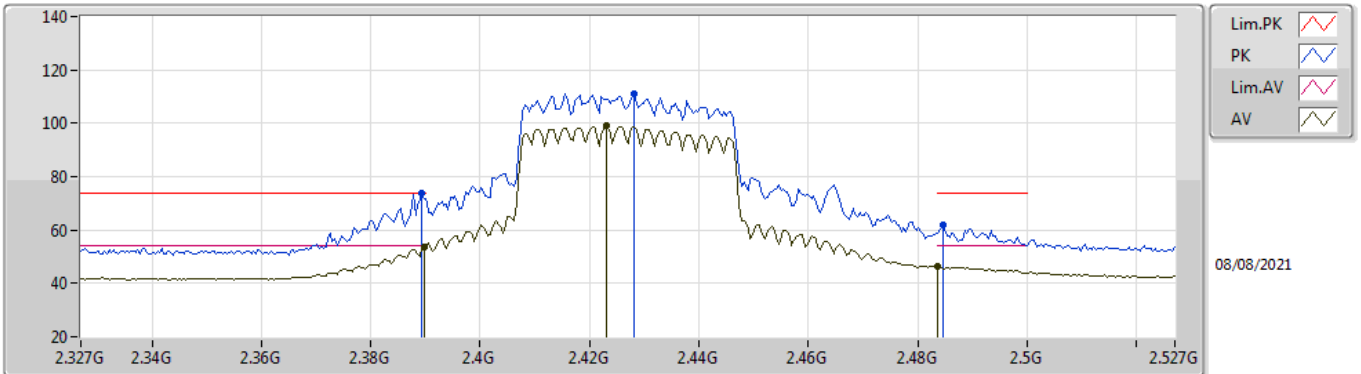


EUT Y_2TX
Setting 12.5
04-F-R-5

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	4.83896G	42.90	74.00	-31.10	37.56	3	Horizontal	252	2.23	-	32.86	4.70	32.22
AV	4.85534G	30.73	54.00	-23.27	25.33	3	Horizontal	252	2.23	-	32.91	4.70	32.21

802.11ax HEW40_Nss1,(MCS0)_2TX

2427MHz_TX

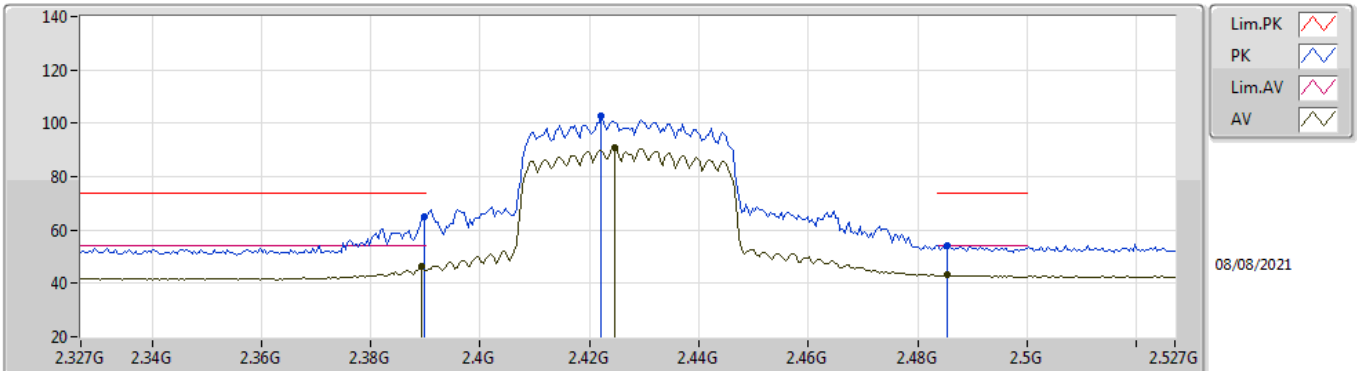


EUT_V_2TX
Setting 13.5
01-A-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	73.56	74.00	-0.44	43.99	3	Vertical	360	1.10	-	27.38	2.19	-
AV	2.3898G	53.66	54.00	-0.34	24.09	3	Vertical	360	1.10	-	27.38	2.19	-
PK	2.4282G	110.99	Inf	-Inf	81.30	3	Vertical	360	1.10	-	27.46	2.23	-
AV	2.423G	99.26	Inf	-Inf	69.59	3	Vertical	360	1.10	-	27.45	2.22	-
PK	2.4846G	61.82	74.00	-12.18	31.83	3	Vertical	360	1.10	-	27.71	2.28	-
AV	2.4835G	46.13	54.00	-7.87	16.15	3	Vertical	360	1.10	-	27.70	2.28	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2427MHz_TX

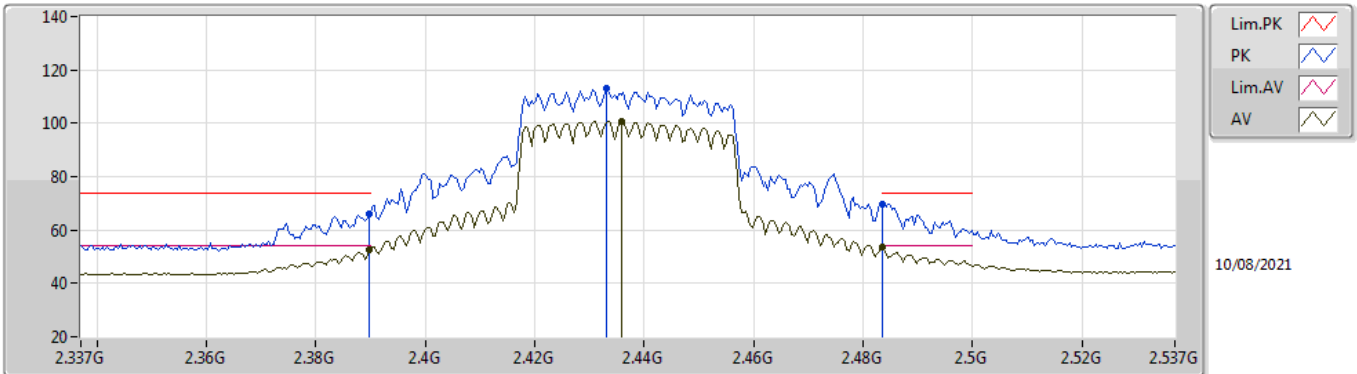


EUT_V_2TX
Setting 13.5
01-A-K-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	64.91	74.00	-9.09	35.34	3	Horizontal	192	1.80	-	27.38	2.19	-
AV	2.3894G	46.27	54.00	-7.73	16.70	3	Horizontal	192	1.80	-	27.38	2.19	-
PK	2.4222G	102.58	Inf	-Inf	72.92	3	Horizontal	192	1.80	-	27.44	2.22	-
AV	2.4246G	90.72	Inf	-Inf	61.05	3	Horizontal	192	1.80	-	27.45	2.22	-
PK	2.4854G	54.25	74.00	-19.75	24.25	3	Horizontal	192	1.80	-	27.71	2.29	-
AV	2.4854G	43.18	54.00	-10.82	13.18	3	Horizontal	192	1.80	-	27.71	2.29	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

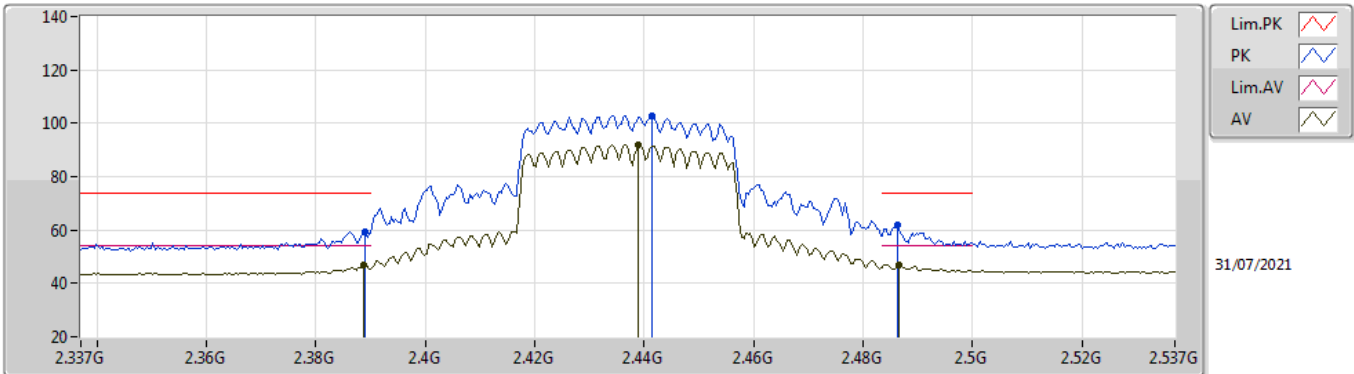


EUT_V_2TX
Setting 14.5
04-F-E-2

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	66.21	74.00	-7.79	35.53	3	Vertical	0	2.92	-	27.48	3.20	-
AV	2.3898G	52.72	54.00	-1.28	22.04	3	Vertical	0	2.92	-	27.48	3.20	-
PK	2.433G	113.31	Inf	-Inf	82.51	3	Vertical	0	2.92	-	27.57	3.23	-
AV	2.4358G	100.86	Inf	-Inf	70.05	3	Vertical	0	2.92	-	27.57	3.24	-
PK	2.4835G	69.63	74.00	-4.37	38.62	3	Vertical	0	2.92	-	27.73	3.28	-
AV	2.4835G	53.66	54.00	-0.34	22.65	3	Vertical	0	2.92	-	27.73	3.28	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

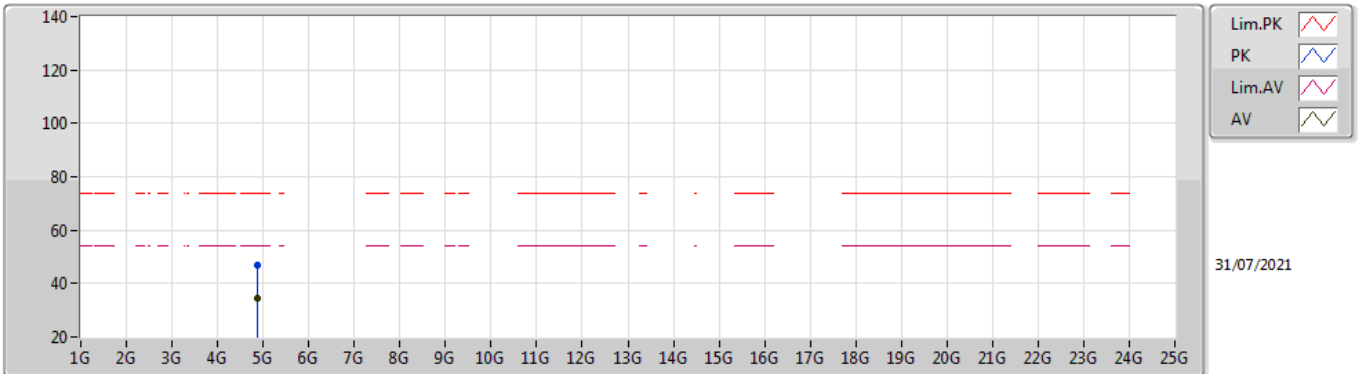


EUT_V_2TX
Setting 14.5
04-F-E-2

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	59.56	74.00	-14.44	28.88	3	Horizontal	206	1.45	-	27.48	3.20	-
AV	2.3886G	46.78	54.00	-7.22	16.10	3	Horizontal	206	1.45	-	27.48	3.20	-
PK	2.4414G	102.94	Inf	-Inf	72.12	3	Horizontal	206	1.45	-	27.58	3.24	-
AV	2.439G	92.01	Inf	-Inf	61.19	3	Horizontal	206	1.45	-	27.58	3.24	-
PK	2.4862G	61.76	74.00	-12.24	30.73	3	Horizontal	206	1.45	-	27.74	3.29	-
AV	2.4866G	47.14	54.00	-6.86	16.10	3	Horizontal	206	1.45	-	27.75	3.29	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

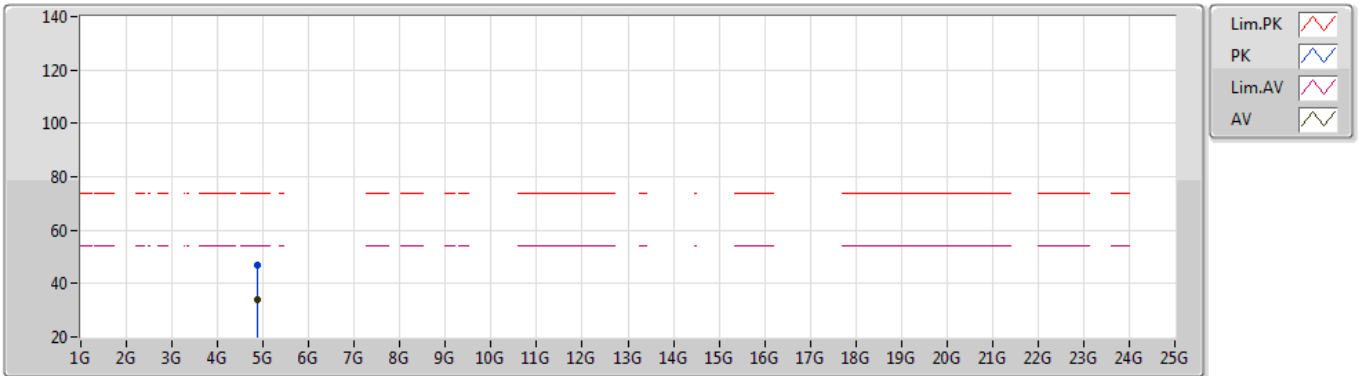


EUT Y_2TX
Setting 14.5
04-F-E-2

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	4.88208G	46.83	74.00	-27.17	41.85	3	Vertical	297	2.32	-	32.76	5.44	33.22
AV	4.8822G	34.44	54.00	-19.56	29.46	3	Vertical	297	2.32	-	32.76	5.44	33.22

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

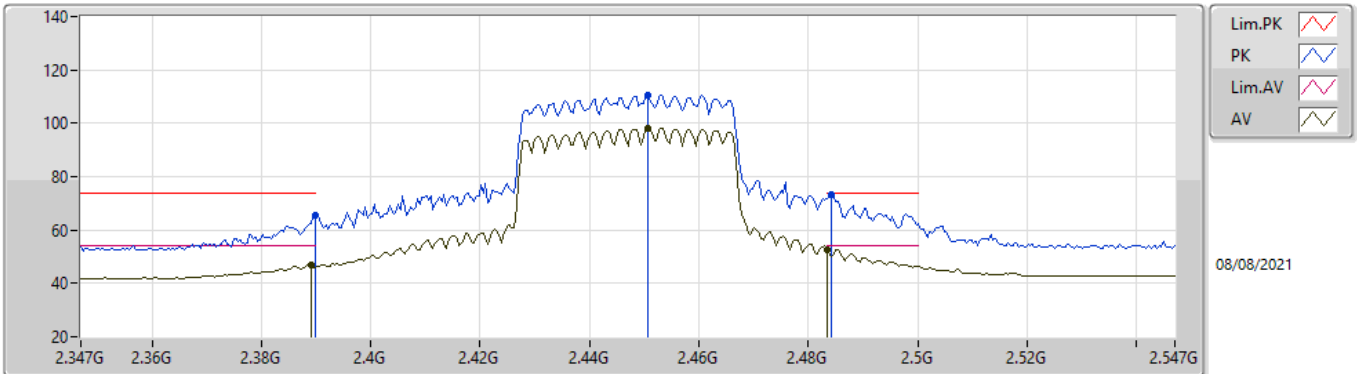


EUT Y_2TX
Setting 14.5
04-F-E-2

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	4.86764G	46.81	74.00	-27.19	41.87	3	Horizontal	45	1.80	-	32.74	5.43	33.23
AV	4.8816G	34.10	54.00	-19.90	29.12	3	Horizontal	45	1.80	-	32.76	5.44	33.22

802.11ax HEW40_Nss1,(MCS0)_2TX

2447MHz_TX

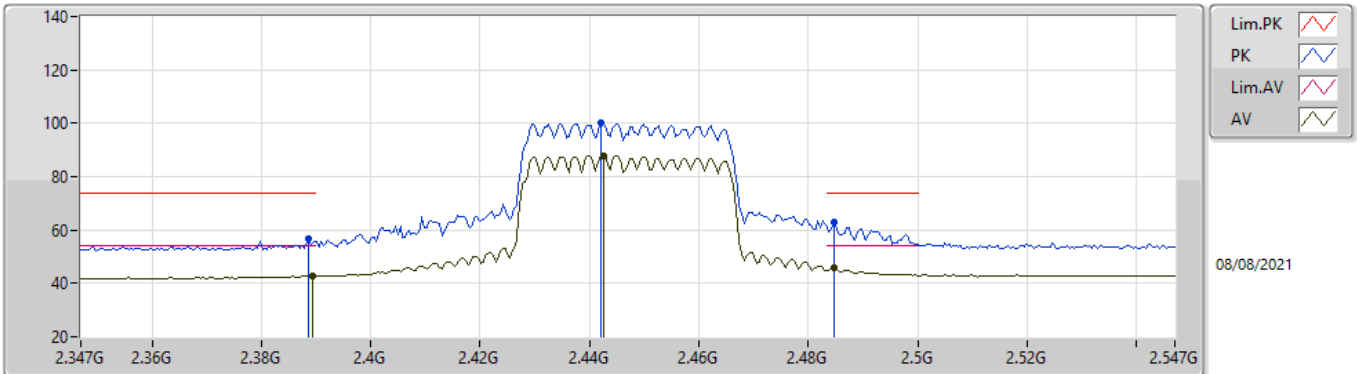


EUT Y_2TX
Setting 13
01-A-K-4

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	65.39	74.00	-8.61	35.82	3	Vertical	0	1.19	-	27.38	2.19	-
AV	2.389G	46.75	54.00	-7.25	17.18	3	Vertical	0	1.19	-	27.38	2.19	-
PK	2.4506G	110.61	Inf	-Inf	80.86	3	Vertical	0	1.19	-	27.50	2.25	-
AV	2.4506G	98.12	Inf	-Inf	68.37	3	Vertical	0	1.19	-	27.50	2.25	-
PK	2.4842G	73.02	74.00	-0.98	43.03	3	Vertical	0	1.19	-	27.71	2.28	-
AV	2.4835G	52.78	54.00	-1.22	22.80	3	Vertical	0	1.19	-	27.70	2.28	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2447MHz_TX

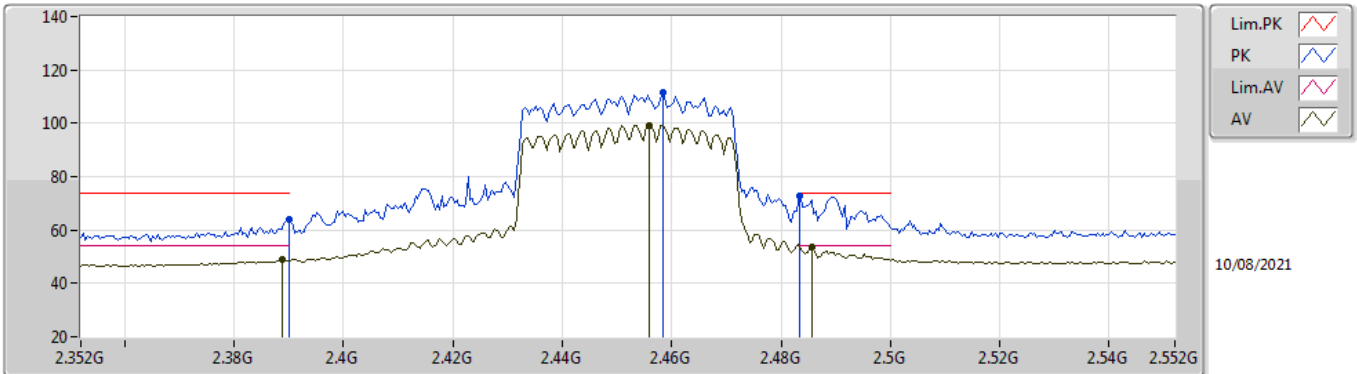


EUT Y_2TX
Setting 13
01-A-K-4

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	2.3886G	56.73	74.00	-17.27	27.16	3	Horizontal	177	1.80	-	27.38	2.19	-
AV	2.3894G	42.66	54.00	-11.34	13.09	3	Horizontal	177	1.80	-	27.38	2.19	-
PK	2.4422G	100.20	Inf	-Inf	70.48	3	Horizontal	177	1.80	-	27.48	2.24	-
AV	2.4426G	87.90	Inf	-Inf	58.17	3	Horizontal	177	1.80	-	27.49	2.24	-
PK	2.4846G	63.15	74.00	-10.85	33.16	3	Horizontal	177	1.80	-	27.71	2.28	-
AV	2.4846G	45.67	54.00	-8.33	15.68	3	Horizontal	177	1.80	-	27.71	2.28	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

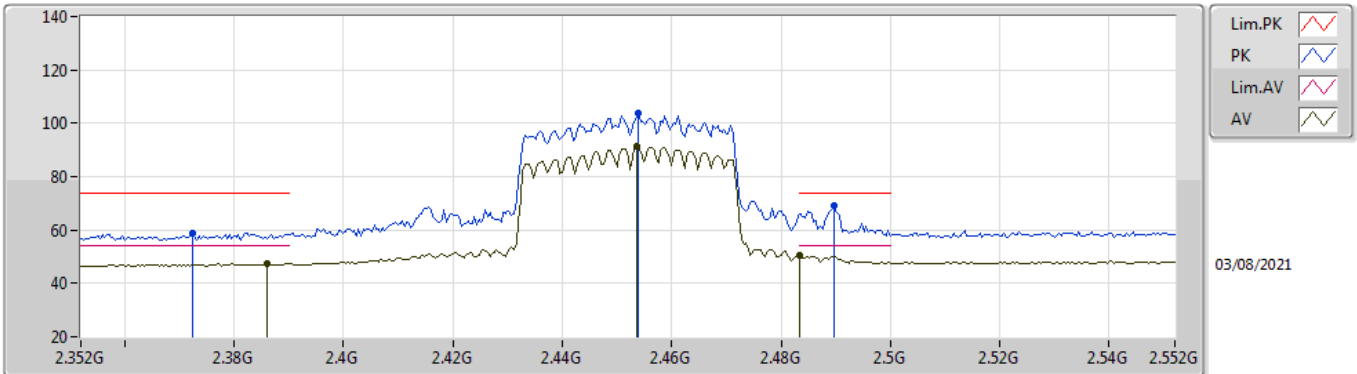


EUT Y_2TX
Setting 13
04-F-E-2

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	64.05	74.00	-9.95	33.27	3	Vertical	0	2.68	-	28.38	2.40	-
AV	2.3888G	48.91	54.00	-5.09	18.12	3	Vertical	0	2.68	-	28.38	2.41	-
PK	2.4584G	111.55	Inf	-Inf	80.69	3	Vertical	0	2.68	-	28.43	2.43	-
AV	2.456G	99.23	Inf	-Inf	68.38	3	Vertical	0	2.68	-	28.42	2.43	-
PK	2.4835G	72.95	74.00	-1.05	41.98	3	Vertical	0	2.68	-	28.53	2.44	-
AV	2.4856G	53.55	54.00	-0.45	22.57	3	Vertical	0	2.68	-	28.54	2.44	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

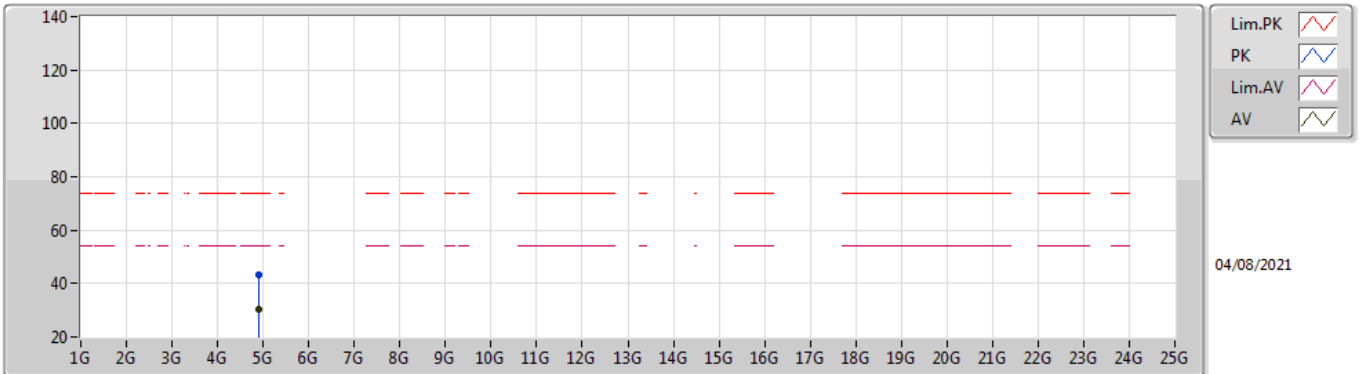


EUT_V_2TX
Setting 13
04-F-E-2

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	2.3724G	58.98	74.00	-15.02	28.23	3	Horizontal	211	1.71	-	28.34	2.41	-
AV	2.386G	47.42	54.00	-6.58	16.64	3	Horizontal	211	1.71	-	28.37	2.41	-
PK	2.454G	103.72	Inf	-Inf	72.87	3	Horizontal	211	1.71	-	28.42	2.43	-
AV	2.4536G	91.37	Inf	-Inf	60.53	3	Horizontal	211	1.71	-	28.41	2.43	-
PK	2.4896G	68.95	74.00	-5.05	37.95	3	Horizontal	211	1.71	-	28.56	2.44	-
AV	2.4835G	50.27	54.00	-3.73	19.30	3	Horizontal	211	1.71	-	28.53	2.44	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

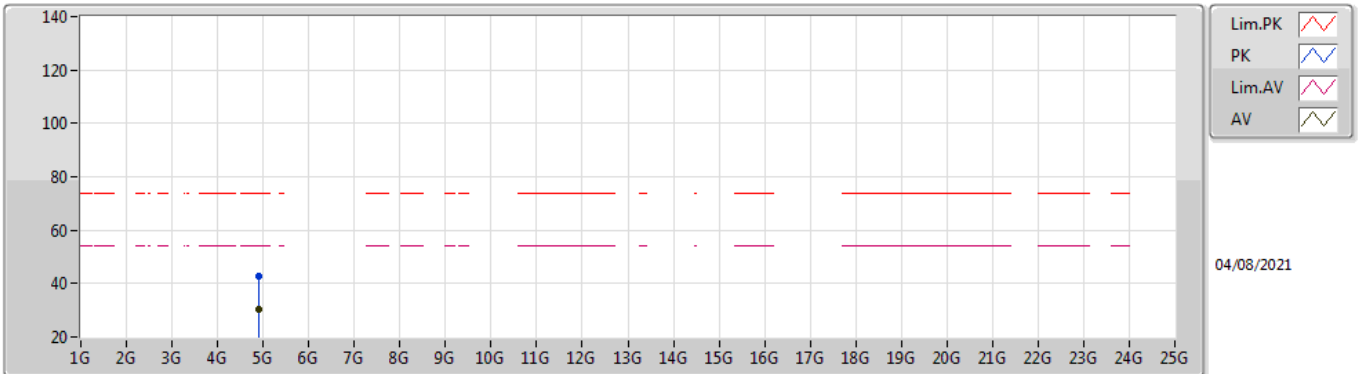


EUT Y_2TX
Setting 13
04-F-R-5

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	4.90562G	43.40	74.00	-30.60	37.86	3	Vertical	250	2.94	-	33.03	4.70	32.19
AV	4.9151G	30.30	54.00	-23.70	24.70	3	Vertical	250	2.94	-	33.09	4.70	32.19

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX



EUT Y_2TX
Setting 13
04-F-R-5

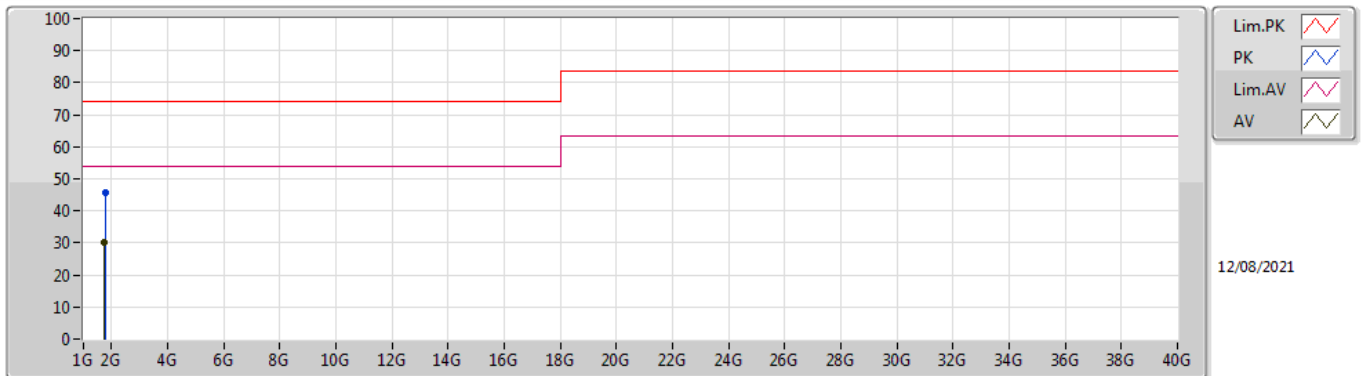
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91546G	42.93	74.00	-31.07	37.33	3	Horizontal	251	1.33	-	33.09	4.70	32.19
AV	4.9154G	30.52	54.00	-23.48	24.92	3	Horizontal	251	1.33	-	33.09	4.70	32.19



Summary

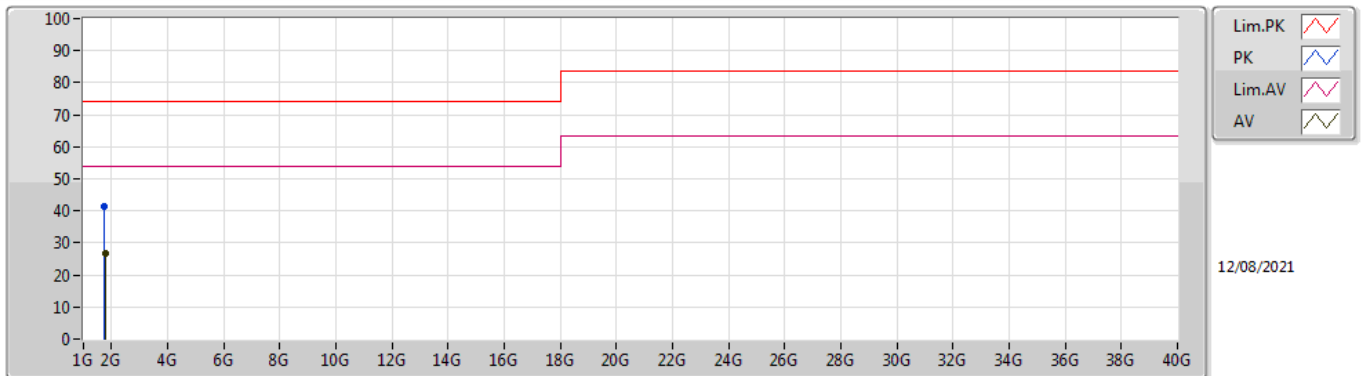
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.75754G	30.01	54.00	-23.99	Vertical

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	1.77004G	45.73	74.00	-28.27	-8.73	3	Vertical	65	1.00	-	54.46	24.98	3.57	37.28
AV	1.75754G	30.01	54.00	-23.99	-8.80	3	Vertical	65	1.00	"Worst"	38.81	24.93	3.56	37.29

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.7569G	41.29	74.00	-32.71	-8.80	3	Horizontal	150	1.00	-	50.09	24.93	3.56	37.29
AV	1.76534G	26.75	54.00	-27.25	-8.76	3	Horizontal	150	1.00	"Worst"	35.51	24.96	3.57	37.29