



RADIO TEST REPORT

FCC ID : TLZ-XM9098

Equipment : IEEE 802.112X2 WiFi 6 SU and MU-MIMO DBC
Wireless LAN + Bluetooth 5.1 Combo Module

Brand Name : AzureWave

Model Name : AW-XM458, AW-XM369, AW-XM458MA-XXX,
AW-XM369MA-XXX

Applicant : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist., New
Taipei City , Taiwan 231

Manufacturer : AzureWave Technologies (Shanghai) Inc.
No. 1355, Jiaxin Road, Malu Twon, Jiading District
Shanghai, P.R. China

Standard : 47 CFR FCC Part 15.247

The product was received on Apr. 13, 2021, and testing was started from May 28, 2021 and completed on Sep. 24, 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	-

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: Sandy Chuang



1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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

**1.1.2 Antenna Information**

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz					
1	1	1	MAG. LAYERS	MSA-4008-25GC1-A2	PIFA	I-PEX	Note 1
2	2	2	MAG. LAYERS	MSA-4008-25GC1-A2	PIFA	I-PEX	
3	1	1	MAG. LAYERS	MSA-4008-25GC1-A2	PIFA	I-PEX	

Note1:

Ant.	Port		Antenna Gain (dBi)		
	2.4GHz	5GHz	WLAN 2.4GHz	WLAN 5GHz	Bluetooth
1	1	1	2.98	5.16	-
2	2	2	2.98	5.16	-
3	1	1	-	-	2.98

Note2: The above information was declared by manufacturer.

Note3:

<WLAN 2.4GHz Function>**For IEEE 802.11b/g/n/ax (2TX/2RX):**

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

Port 1 and Port 2 could transmit/receive simultaneously.

<WLAN 5GHz Function>**For IEEE 802.11a/n/ac/ax (2TX/2RX):**

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

Port 1 and Port 2 could transmit/receive simultaneously.

<Bluetooth Function> (1TX/1RX)

Only Port 1 can be used as transmitting/receiving.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.958	0.19	8.385m	300
802.11g	0.835	0.78	1.395m	1k
802.11ax HEW20	0.931	0.31	3.878m	300
802.11ax HEW40	0.876	0.57	1.965m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From host system			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	DutApiMimoApApp (Version : 2.0.0.80)			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Model No.	GPIO	Description
AW-XM458	Without GPIO	All the model names are identical, the difference model names served as marketing strategy.
AW-XM369		
AW-XM458MA-XXX	With GPIO	All the model names are identical, the difference model names served as marketing strategy.
AW-XM369MA-XXX		

Note 1: From the above models, model: AW-XM458MA-XXX was selected as representative model for the test and its data was recorded in this report.

Note 2: 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
- ♦ 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	23.4-25.7 / 64-66	Jun. 02, 2021~ Aug. 19, 2021
Radiated (Below 1GHz)	10CH01-CB	Peter Wu	24~25 / 58~59	Sep. 24, 2021
Radiated (Above 1GHz)	03CH03-CB	JN Chang	24.6-25.7 / 55-58	May 28, 2021~ Jun. 03, 2021
Radiated (Emission Co-location)	03CH05-CB	JN Chang	24.4-25.5 / 56-59	Sep. 03, 2021
AC Conduction	CO01-CB	Wei Li	22~24 / 57~59	Sep. 24, 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 Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 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
2417MHz	18.5
2437MHz	20.5
2457MHz	20
2462MHz	18.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	14.5
2417MHz	16
2437MHz	19.5
2457MHz	16.5
2462MHz	15
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	13.5
2417MHz	15
2437MHz	18.5
2457MHz	15.5
2462MHz	13
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	13
2437MHz	14.5
2452MHz	13

Note:

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

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	EUT with GPIO + WLAN 2.4GHz + WLAN 5GHz + Bluetooth + Ant.

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 with GPIO in Z axis + WLAN 2.4GHz + WLAN 5GHz + Bluetooth + Ant.
2	EUT with GPIO in Y axis + WLAN 2.4GHz + WLAN 5GHz + Bluetooth + Ant.
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position, and the worst case as below:	
1	EUT with GPIO in X axis + Ant.



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
The EUT was performed at X axis, Y axis and Z axis position. EUT X axis has been evaluated to be the worst case at Emissions in Restricted Frequency Bands <Above 1GHz> ; thus, the measurement will follow this same test configuration.	
1	EUT with GPIO in X axis / 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 + Bluetooth
Refer to Sporton Test Report No.: FA132339 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E6430	N/A
B	Fixture	Azurewave	2460 I2	N/A
C	AP Router	ASUS	RP-N53	MSQ-RPN53
D	Earphone	SHYARO CHI	MIC-04	N/A
E	Mouse	HP	FM100	N/A
F	AP NB	DELL	E6430	N/A

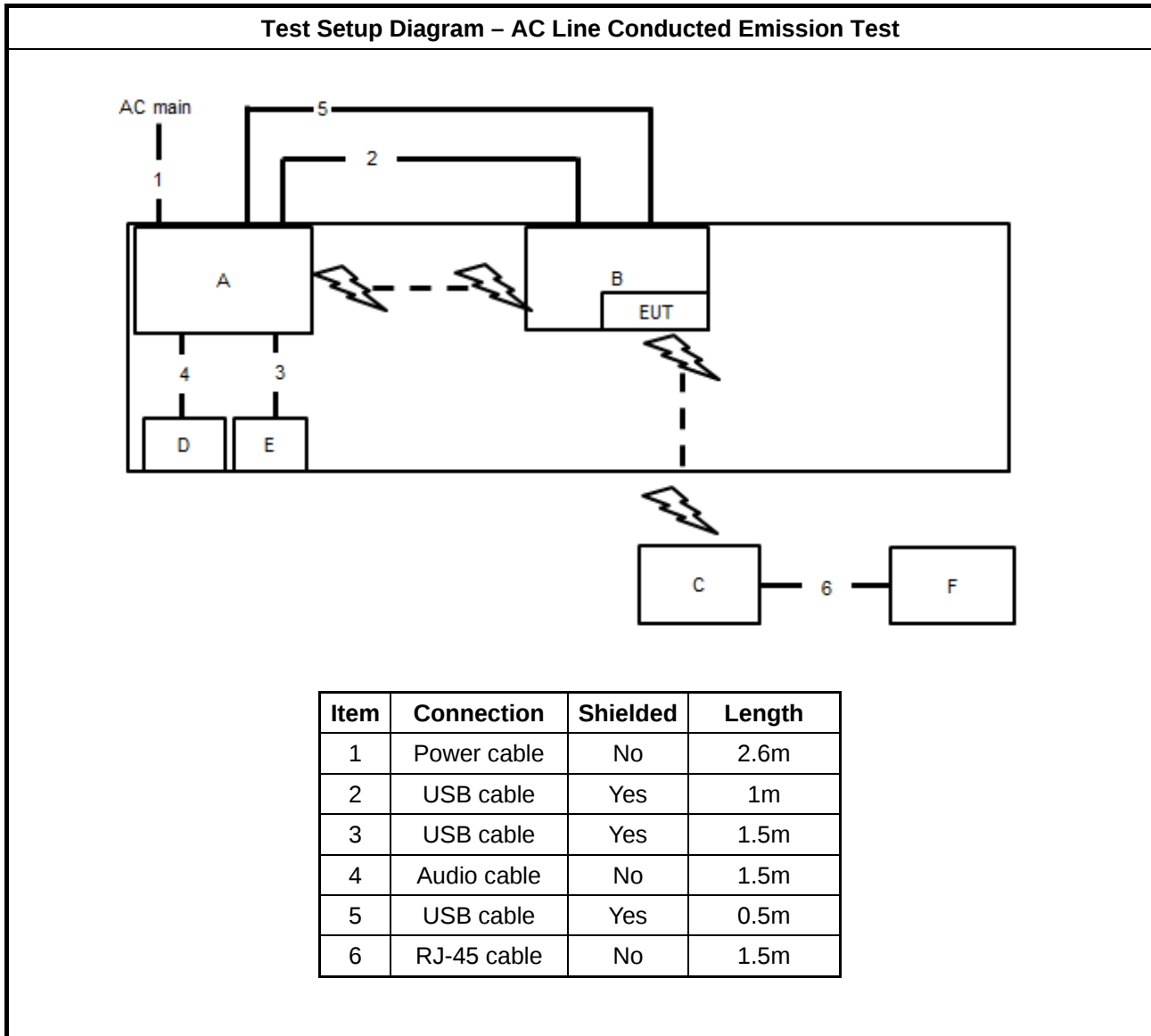
For Radiated (below 1GHz):

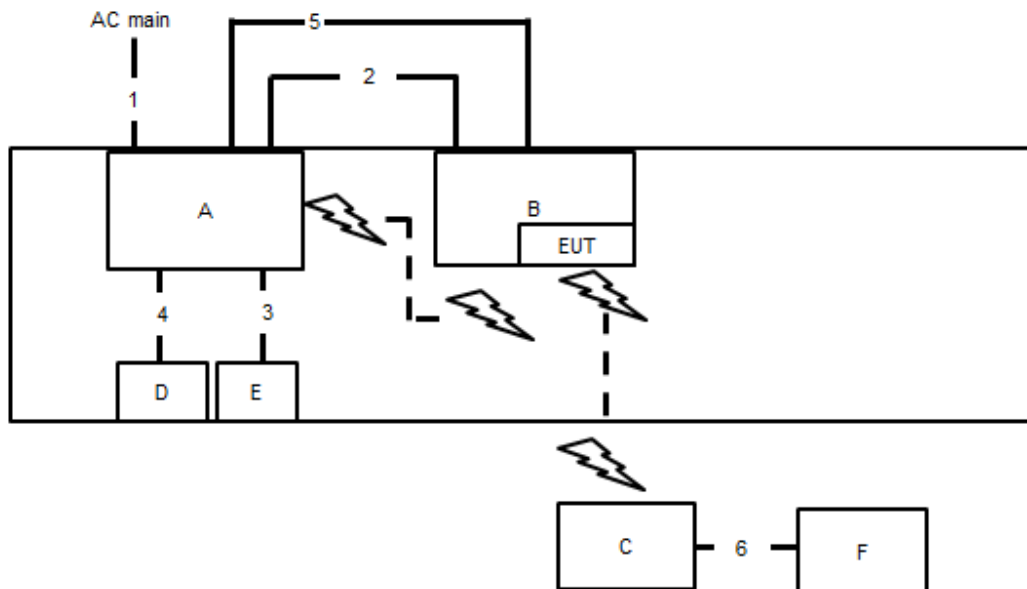
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	Dell	V14-5490-R1528STW	N/A
B	Fixture	Azurewave	2460 I2	N/A
C	AP Router	ASUS	RP-N53	MSQ-RPN53
D	Earphone	SHYARO CHI	MIC-04	N/A
E	Mouse	HP	FM100	N/A
F	AP NB	DELL	E6430	N/A

For Radiated (above 1GHz) and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Fixture	Azurewave	AW-CB162NF I3	N/A
D	Fixture	Azurewave	2458 I2	N/A

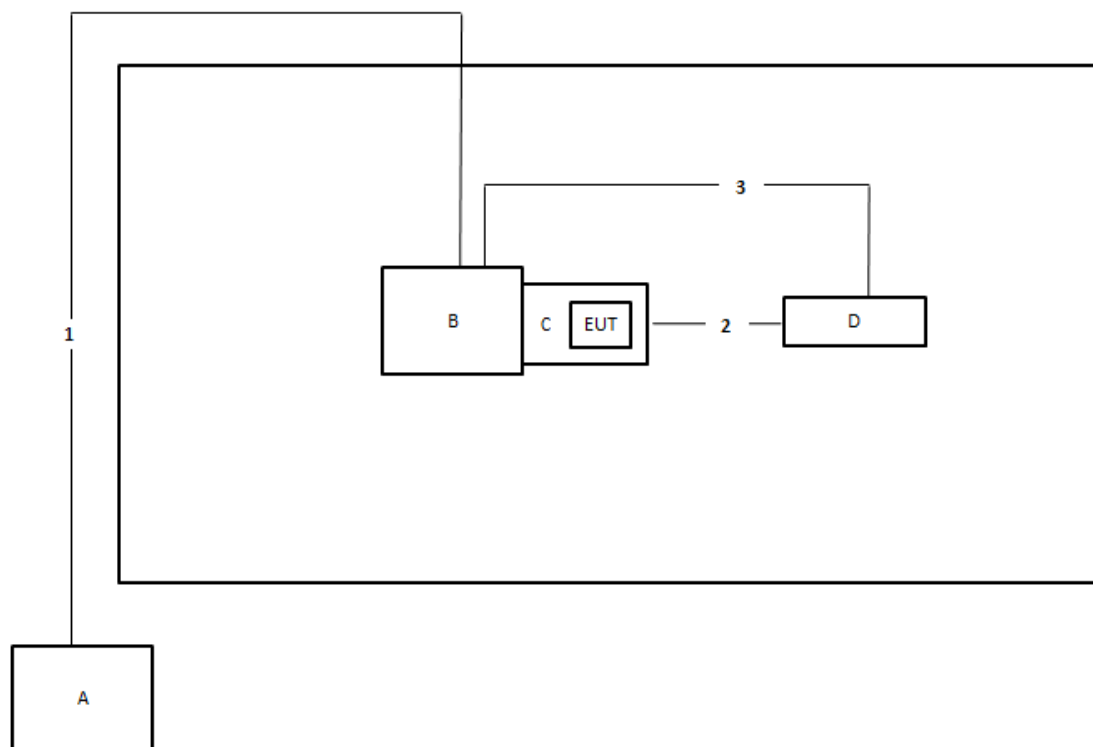
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	2.6m
2	USB cable	Yes	1m
3	USB cable	Yes	1.5m
4	Audio cable	No	1.5m
5	USB cable	Yes	0.5m
6	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Console cable	No	0.18m
3	USB cable	No	1.2m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

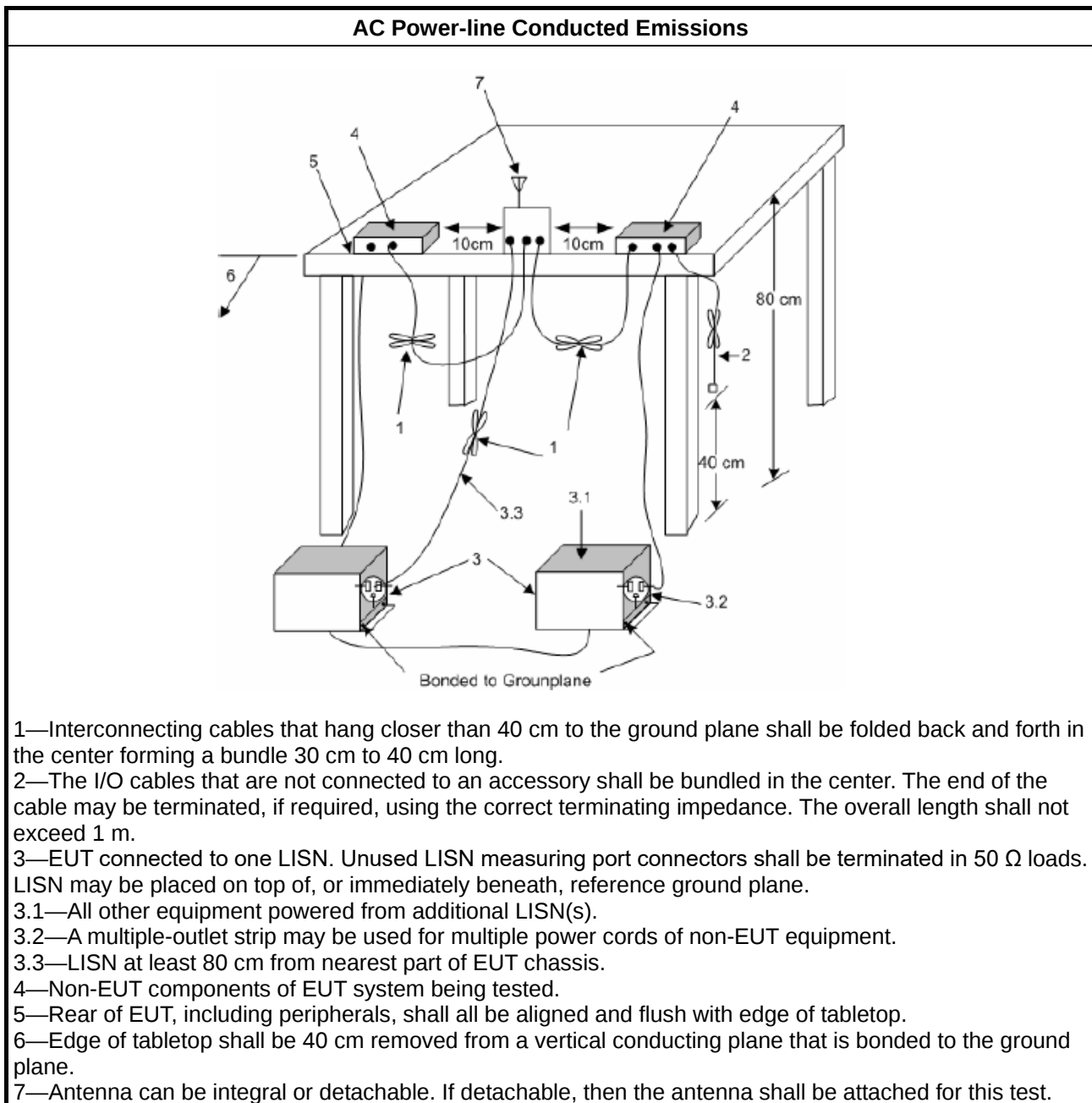
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

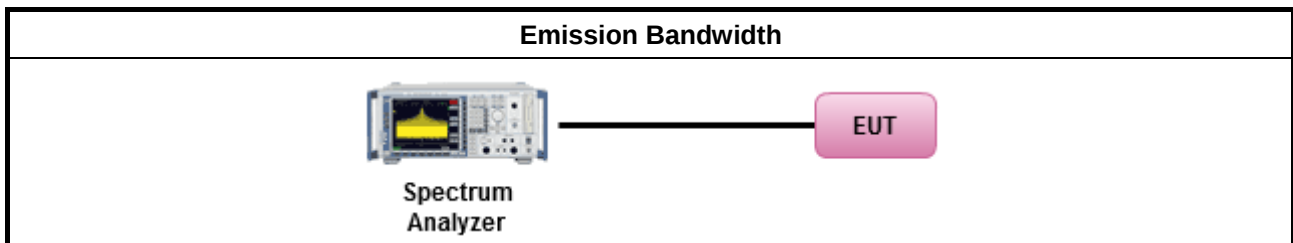
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

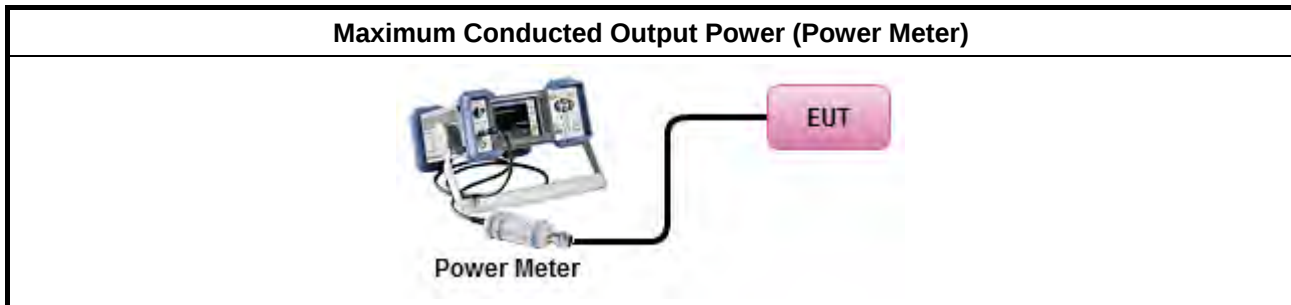
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

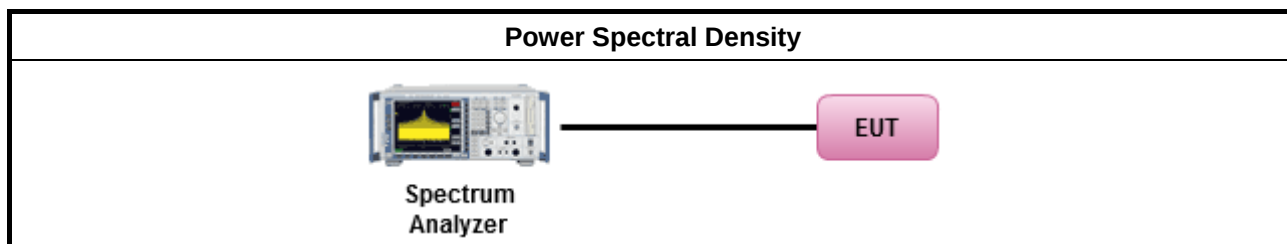
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

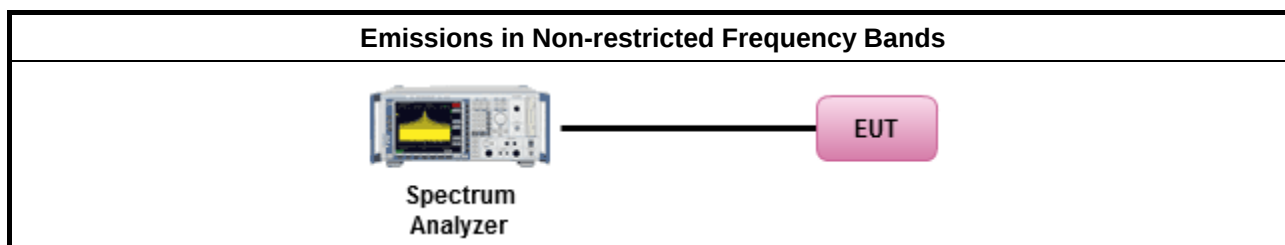
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

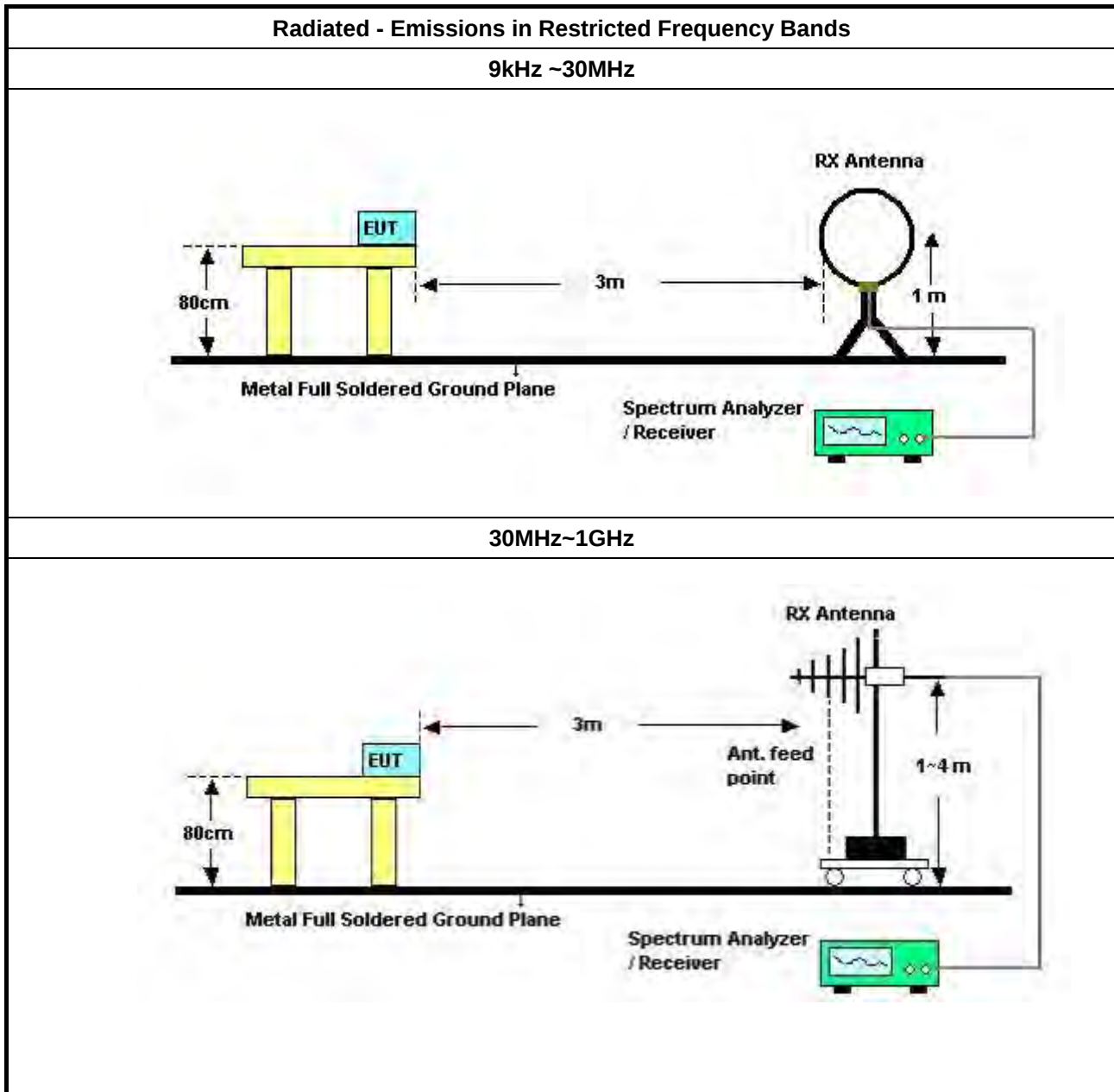
Refer a test equipment and calibration data table in this test report.

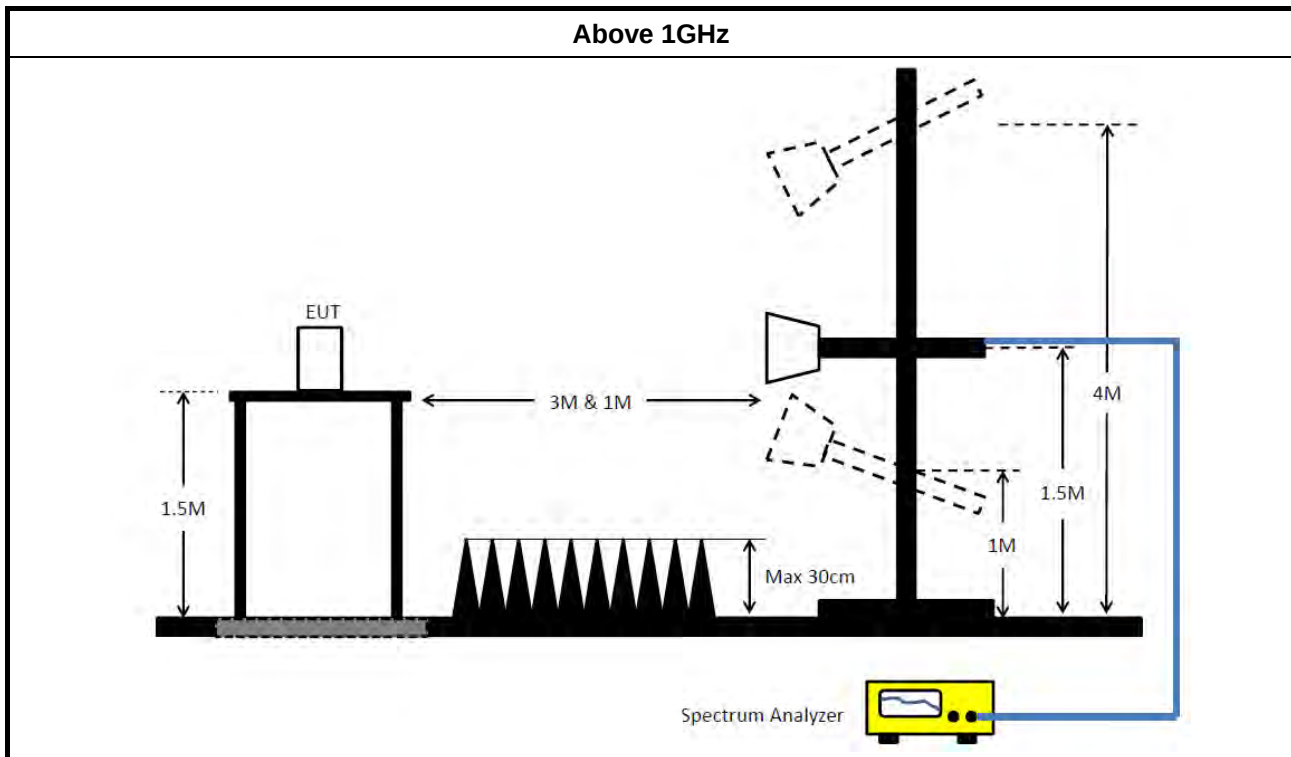


3.6.3 Test Procedures

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

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (10CH01-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)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (10CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 06, 2021	May 05, 2022	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 26, 2021	Jan. 25, 2022	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 03, 2020	Jun. 02, 2021	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 09, 2020	Jun. 08, 2021	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-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. 16, 2020	Jul. 15, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 31, 2020	Dec. 30, 2021	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)
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)



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Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
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

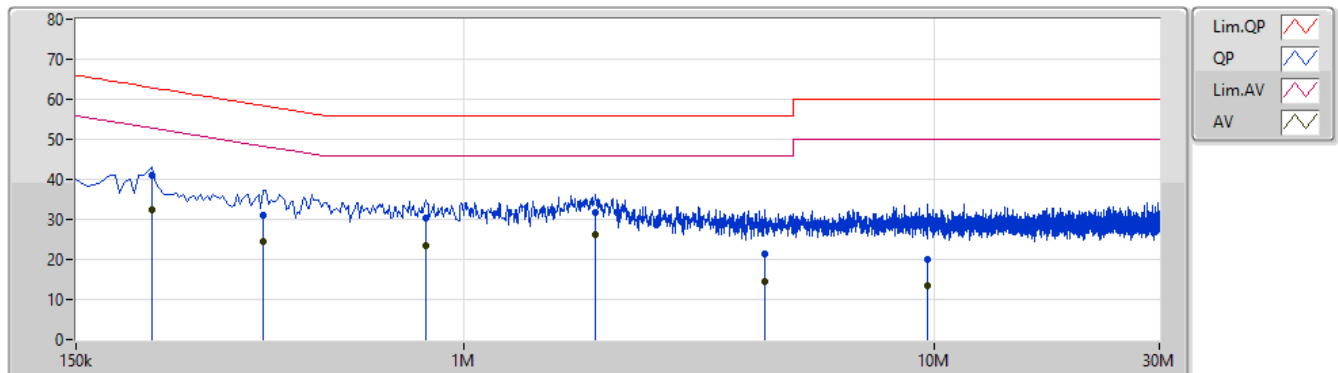
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	429k	34.14	47.28	-13.14	Neutral

Mode 1

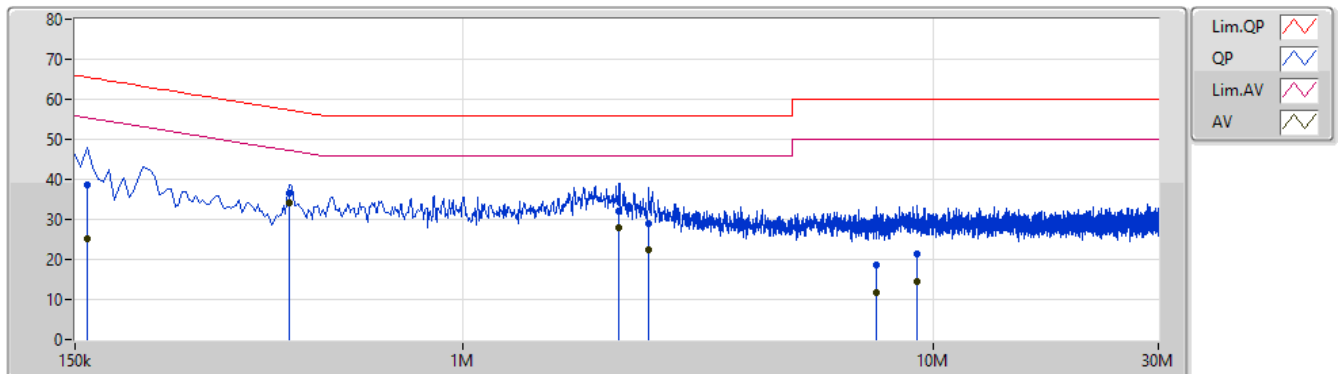
24/09/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	217.5k	40.98	62.92	-21.94	9.89	Line	-	31.09	0.04	0.04	9.81			
AV	217.5k	32.51	52.92	-20.41	9.89	Line	-	22.62	0.04	0.04	9.81			
QP	375k	30.97	58.39	-27.42	9.90	Line	-	21.07	0.04	0.04	9.82			
AV	375k	24.56	48.39	-23.83	9.90	Line	-	14.66	0.04	0.04	9.82			
QP	829.5k	30.19	56.00	-25.81	9.93	Line	-	20.26	0.06	0.04	9.83			
AV	829.5k	23.58	46.00	-22.42	9.93	Line	-	13.65	0.06	0.04	9.83			
QP	1.905M	31.71	56.00	-24.29	9.98	Line	-	21.73	0.09	0.07	9.82			
AV	1.905M	26.05	46.00	-19.95	9.98	Line	"Worst"	16.07	0.09	0.07	9.82			
QP	4.353M	21.33	56.00	-34.67	10.13	Line	-	11.20	0.14	0.12	9.87			
AV	4.353M	14.38	46.00	-31.62	10.13	Line	-	4.25	0.14	0.12	9.87			
QP	9.636M	19.92	60.00	-40.08	10.28	Line	-	9.64	0.22	0.16	9.90			
AV	9.636M	13.31	50.00	-36.69	10.28	Line	-	3.03	0.22	0.16	9.90			

Mode 1

24/09/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	159k	38.57	65.52	-26.95	9.88	Neutral	-	28.69	0.03	0.04	9.81			
AV	159k	25.06	55.52	-30.46	9.88	Neutral	-	15.18	0.03	0.04	9.81			
QP	429k	36.49	57.28	-20.79	9.89	Neutral	-	26.60	0.03	0.04	9.82			
AV	429k	34.14	47.28	-13.14	9.89	Neutral	"Worst"	24.25	0.03	0.04	9.82			
QP	2.148M	32.21	56.00	-23.79	9.98	Neutral	-	22.23	0.07	0.08	9.83			
AV	2.148M	27.85	46.00	-18.15	9.98	Neutral	-	17.87	0.07	0.08	9.83			
QP	2.481M	29.06	56.00	-26.94	10.01	Neutral	-	19.05	0.08	0.09	9.84			
AV	2.481M	22.43	46.00	-23.57	10.01	Neutral	-	12.42	0.08	0.09	9.84			
QP	7.535M	18.72	60.00	-41.28	10.21	Neutral	-	8.51	0.17	0.15	9.89			
AV	7.535M	11.79	50.00	-38.21	10.21	Neutral	-	1.58	0.17	0.15	9.89			
QP	9.204M	21.25	60.00	-38.75	10.25	Neutral	-	11.00	0.19	0.16	9.90			
AV	9.204M	14.40	50.00	-35.60	10.25	Neutral	-	4.15	0.19	0.16	9.90			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	10.1M	15.167M	15M2G1D	10.05M	13.318M
802.11g_Nss1,(6Mbps)_2TX	16.375M	19.715M	19M7D1D	16.325M	16.542M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.425M	19.115M	19M1D1D	17.65M	18.741M
802.11ax HEW40_Nss1,(MCS0)_2TX	36.9M	37.531M	37M5D1D	35.7M	37.481M

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

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

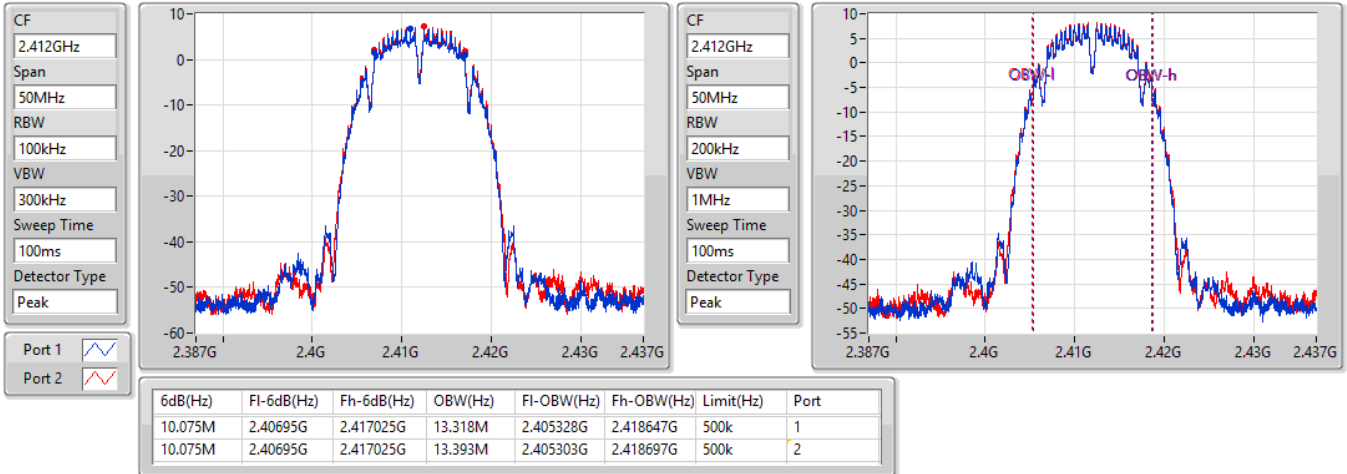
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	10.075M	13.318M	10.075M	13.393M
2437MHz	Pass	500k	10.1M	15.167M	10.075M	13.968M
2462MHz	Pass	500k	10.05M	13.343M	10.075M	13.368M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.375M	16.617M	16.325M	16.567M
2437MHz	Pass	500k	16.325M	18.416M	16.325M	19.715M
2462MHz	Pass	500k	16.325M	16.617M	16.325M	16.542M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.3M	18.766M	18.2M	18.791M
2437MHz	Pass	500k	18.375M	19.065M	17.65M	19.115M
2462MHz	Pass	500k	18.425M	18.741M	18.05M	18.766M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	36.9M	37.531M	36.9M	37.531M
2437MHz	Pass	500k	36.9M	37.531M	35.7M	37.531M
2452MHz	Pass	500k	36.3M	37.481M	35.7M	37.531M

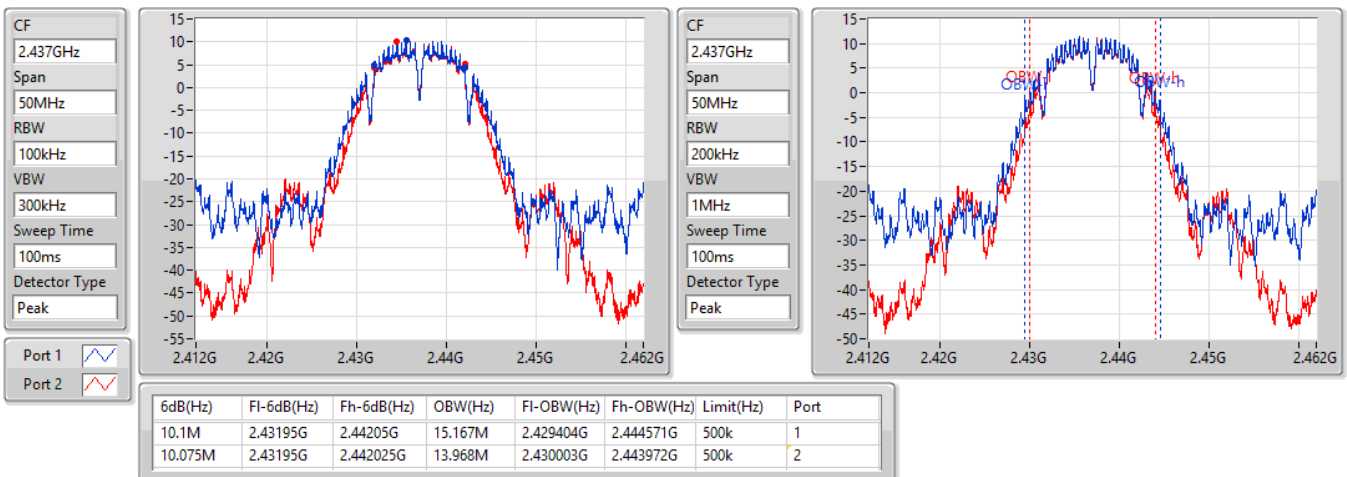
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

02/06/2021

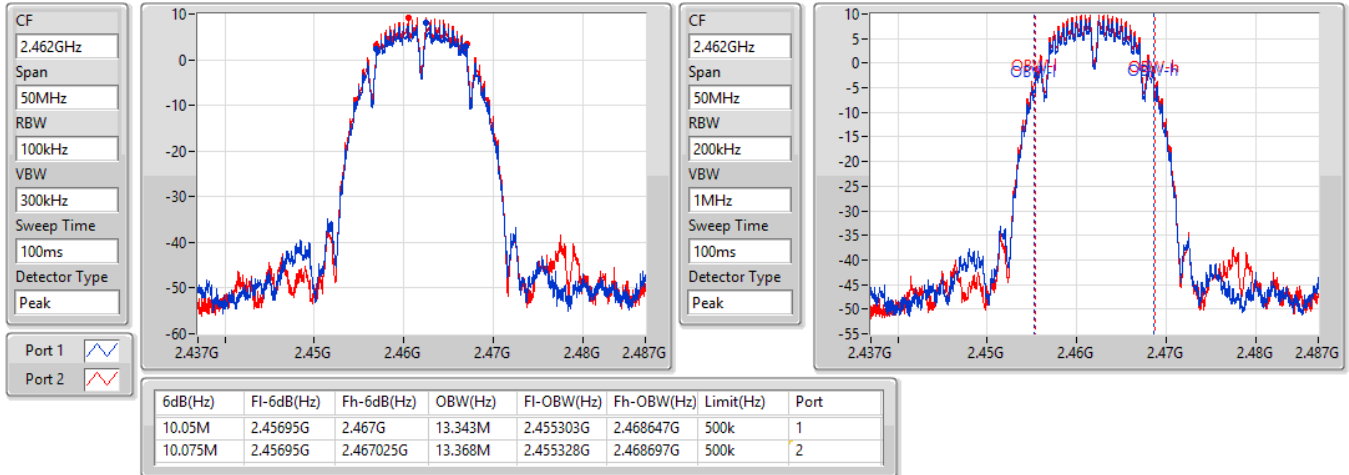

802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

02/06/2021

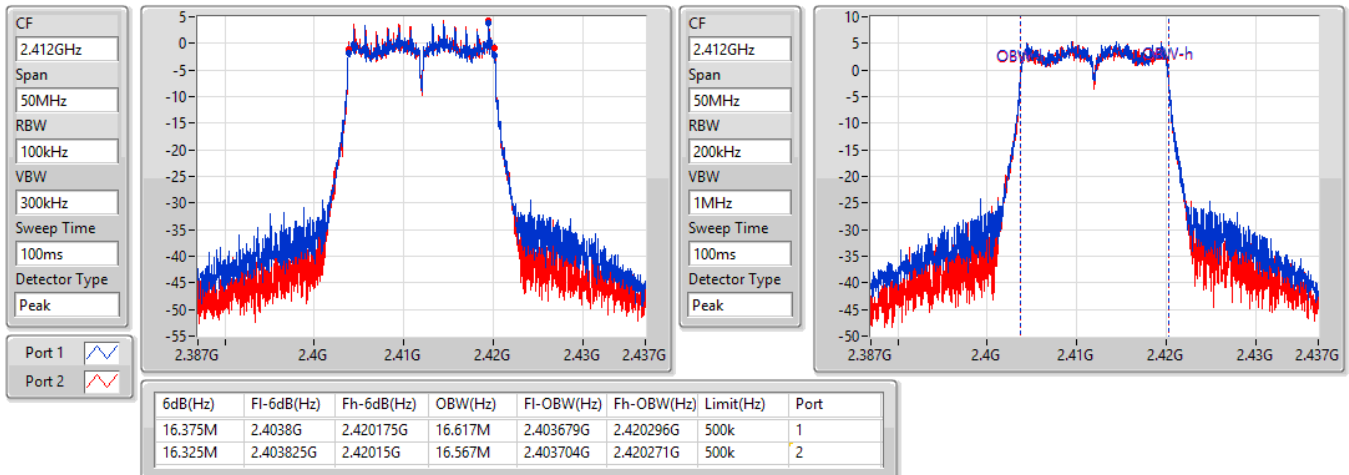


802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

02/06/2021


802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

02/06/2021

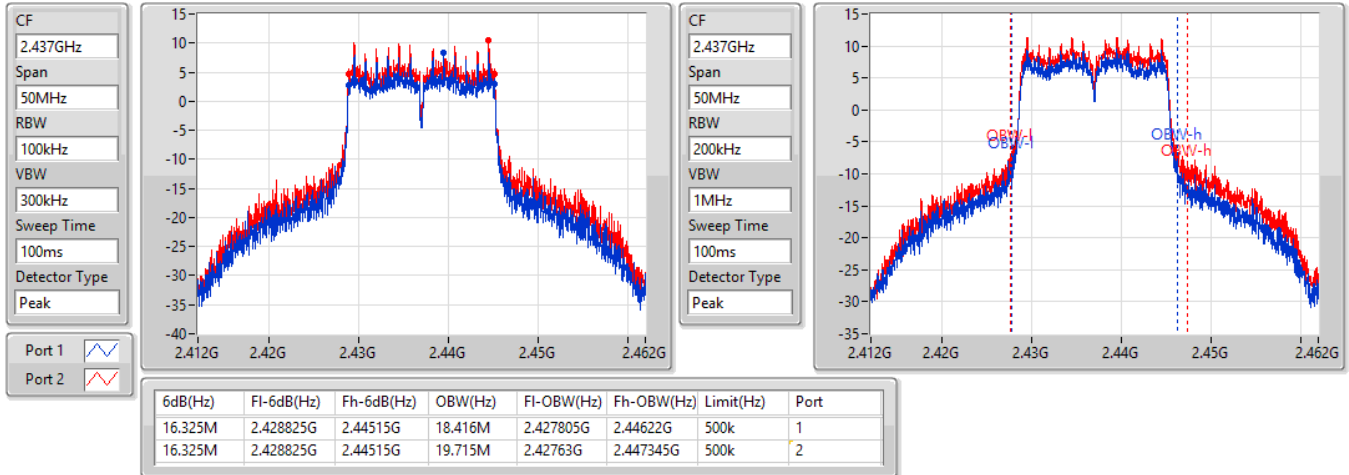


802.11g_Nss1,(6Mbps)_2TX

EBW

2437MHz

02/06/2021

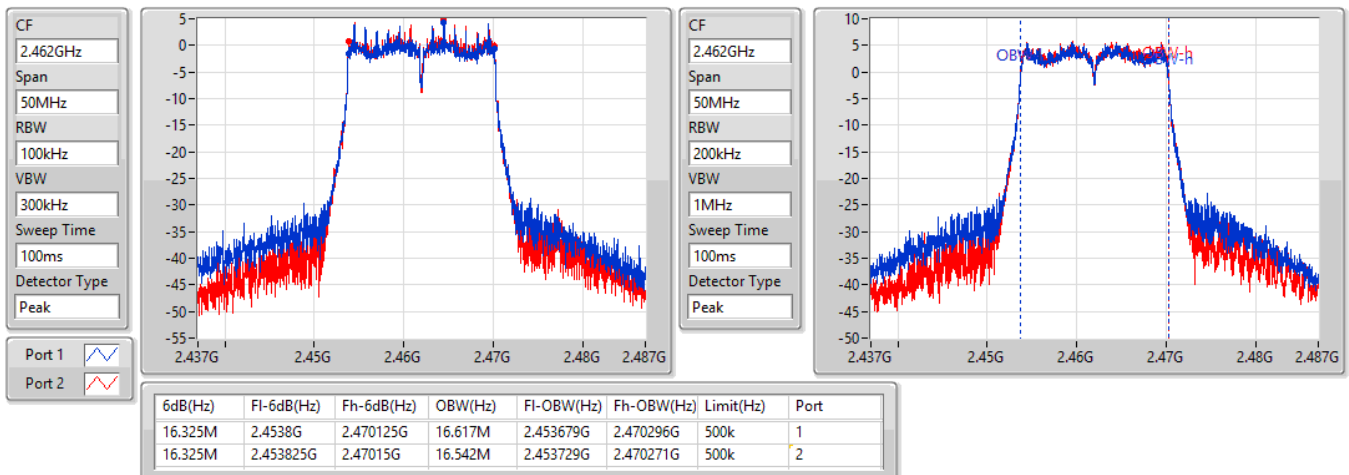


802.11g_Nss1,(6Mbps)_2TX

EBW

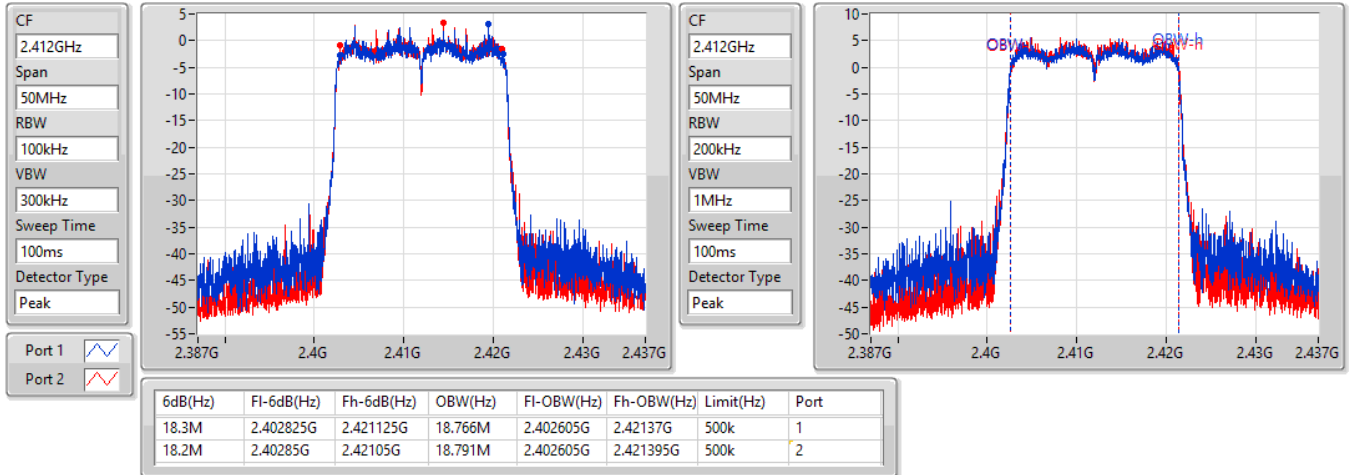
2462MHz

02/06/2021

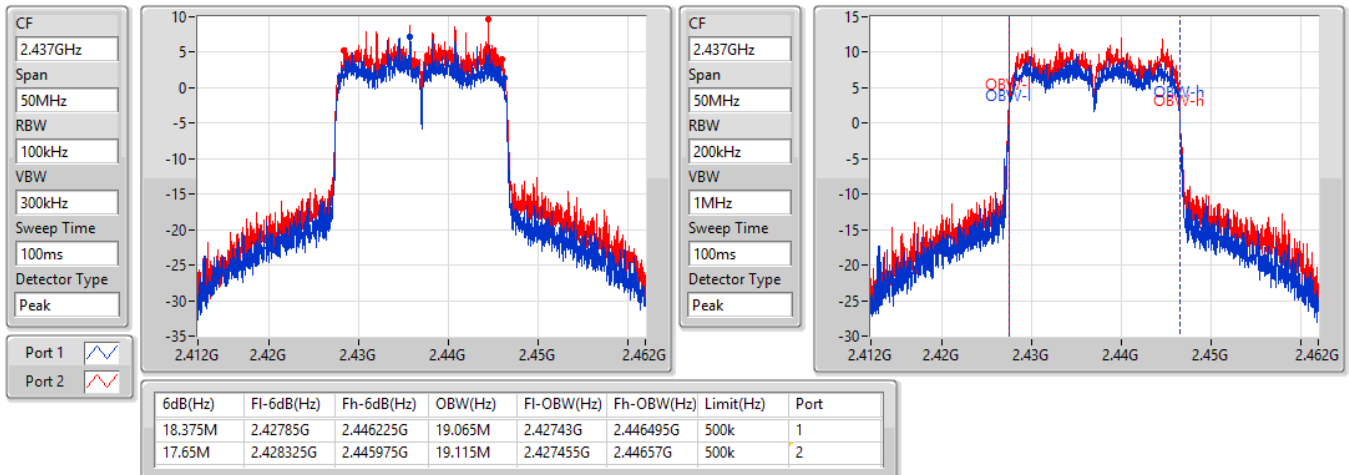


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2412MHz

02/06/2021

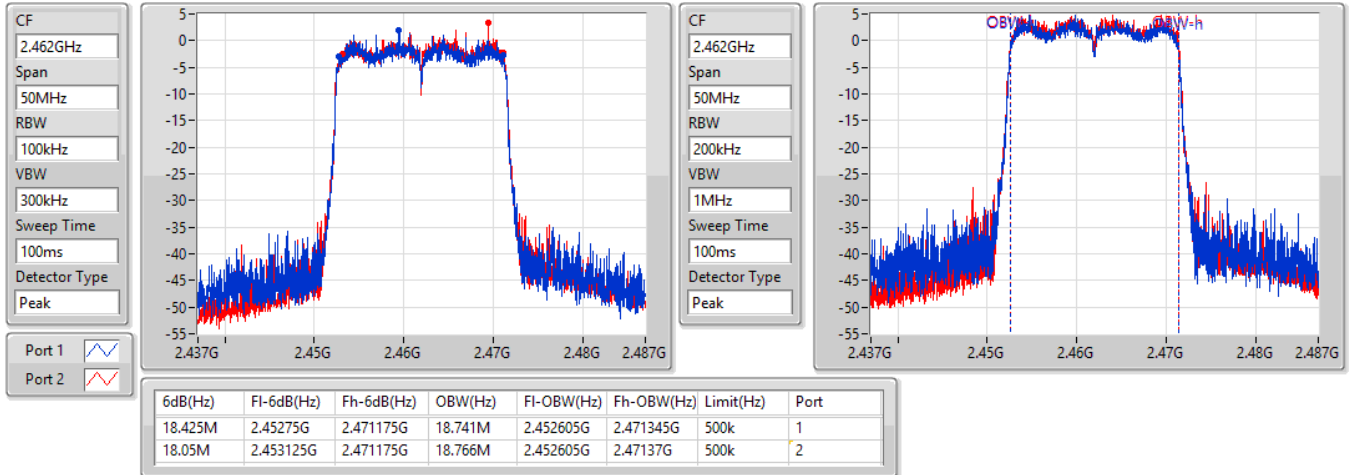

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2437MHz

02/06/2021

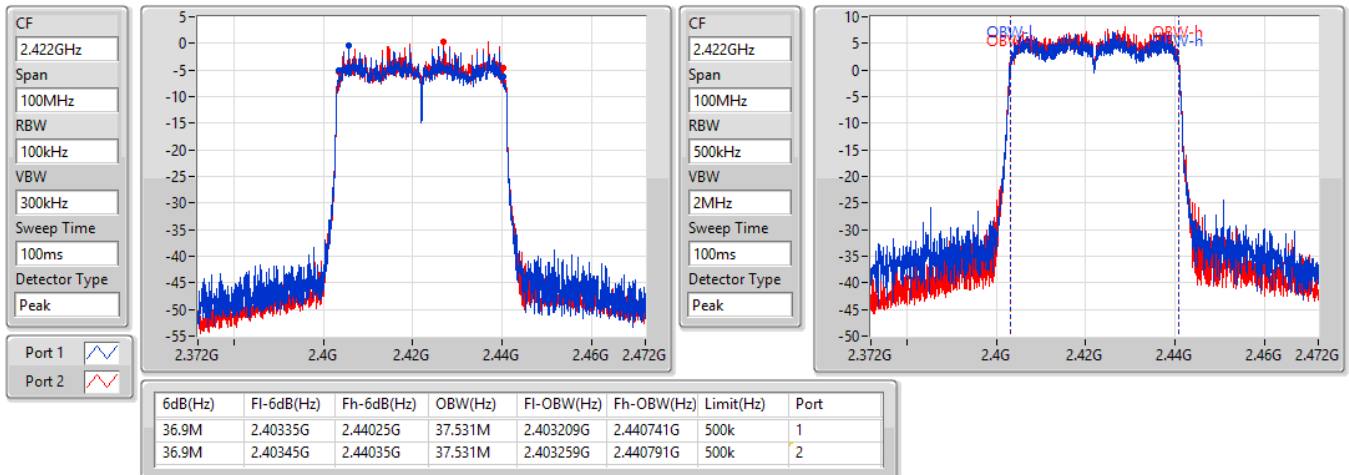


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2462MHz

02/06/2021

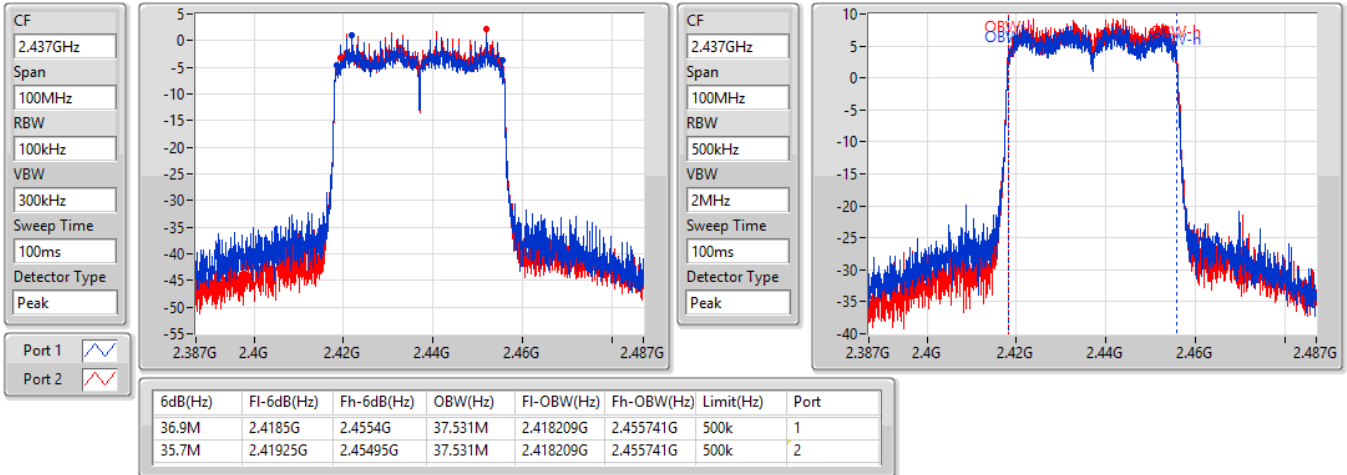

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2422MHz

02/06/2021

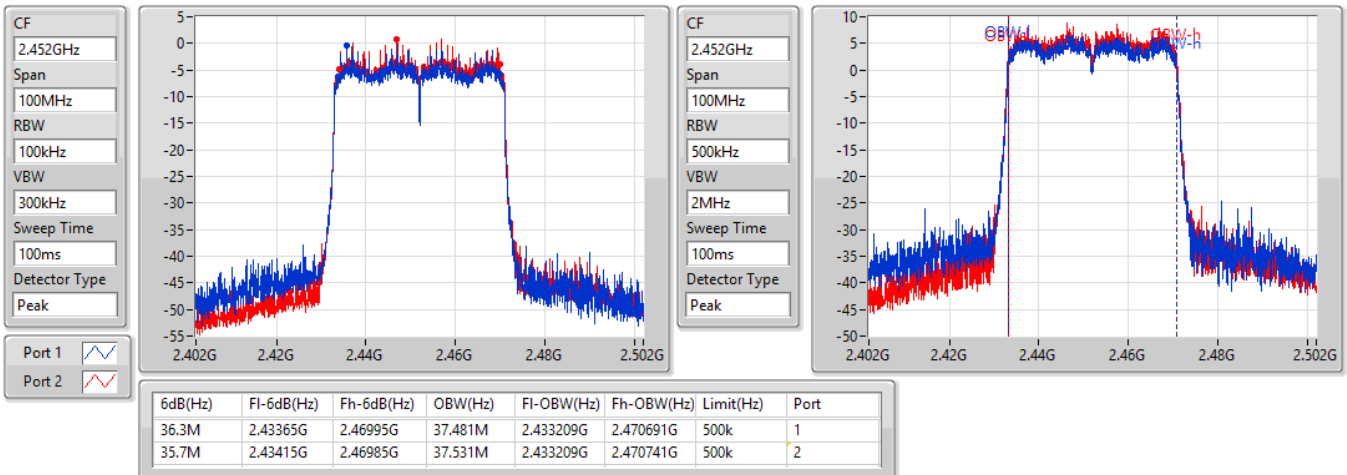


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2437MHz

02/06/2021


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2452MHz

02/06/2021





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	22.18	0.16520
802.11g_Nss1,(6Mbps)_2TX	21.97	0.15740
802.11ax HEW20_Nss1,(MCS0)_2TX	21.48	0.14060
802.11ax HEW40_Nss1,(MCS0)_2TX	17.78	0.05998

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.98	15.74	16.60	19.20	30.00
2417MHz	Pass	2.98	17.38	18.16	20.80	30.00
2437MHz	Pass	2.98	18.35	19.86	22.18	30.00
2457MHz	Pass	2.98	18.30	19.13	21.75	30.00
2462MHz	Pass	2.98	16.95	17.95	20.49	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.98	14.52	14.57	17.56	30.00
2417MHz	Pass	2.98	16.35	17.08	19.74	30.00
2437MHz	Pass	2.98	18.03	19.72	21.97	30.00
2457MHz	Pass	2.98	15.54	16.32	18.96	30.00
2462MHz	Pass	2.98	14.41	14.91	17.68	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.98	13.59	13.81	16.71	30.00
2417MHz	Pass	2.98	14.94	15.46	18.22	30.00
2437MHz	Pass	2.98	17.53	19.25	21.48	30.00
2457MHz	Pass	2.98	15.18	15.60	18.41	30.00
2462MHz	Pass	2.98	12.70	13.13	15.93	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.98	13.06	13.52	16.31	30.00
2437MHz	Pass	2.98	14.48	15.04	17.78	30.00
2452MHz	Pass	2.98	12.74	13.68	16.25	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-1.25
802.11g_Nss1,(6Mbps)_2TX	-4.18
802.11ax HEW20_Nss1,(MCS0)_2TX	-5.55
802.11ax HEW40_Nss1,(MCS0)_2TX	-11.48

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.99	-7.50	-7.62	-5.51	8.00
2437MHz	Pass	5.99	-4.39	-3.98	-1.25	8.00
2462MHz	Pass	5.99	-6.46	-5.91	-3.84	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.99	-11.24	-11.99	-9.11	8.00
2437MHz	Pass	5.99	-6.90	-5.89	-4.18	8.00
2462MHz	Pass	5.99	-11.32	-10.87	-8.77	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.99	-12.89	-12.18	-10.12	8.00
2437MHz	Pass	5.99	-8.56	-6.40	-5.55	8.00
2462MHz	Pass	5.99	-13.07	-13.06	-10.98	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.99	-15.35	-14.52	-13.25	8.00
2437MHz	Pass	5.99	-13.84	-12.83	-11.48	8.00
2452MHz	Pass	5.99	-14.72	-14.52	-12.49	8.00

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

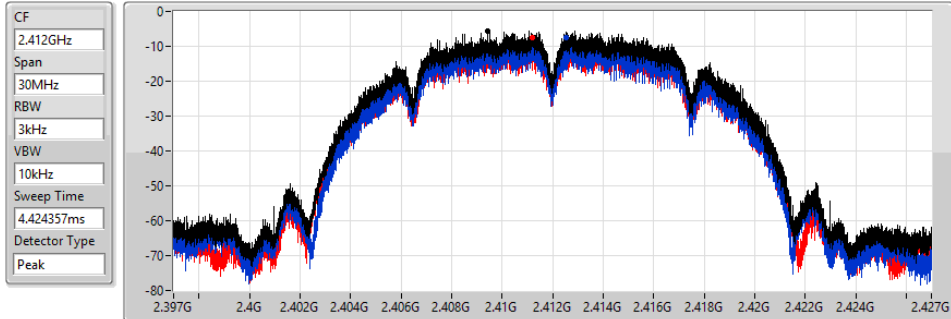
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

02/06/2021



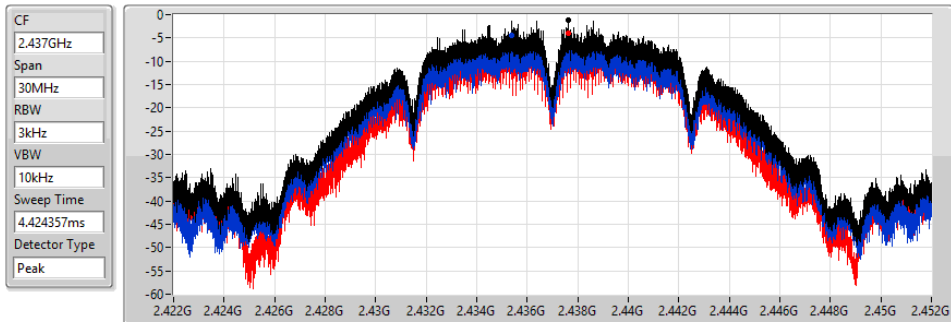
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.51	-5.51	-7.50	-7.62

802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

02/06/2021



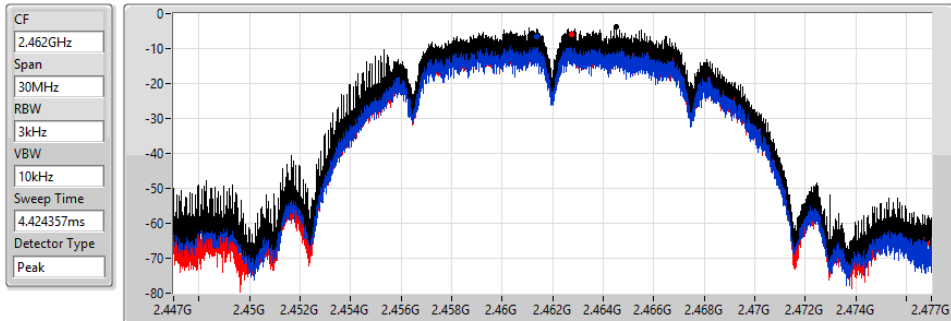
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.25	-1.25	-4.39	-3.98

802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

02/06/2021



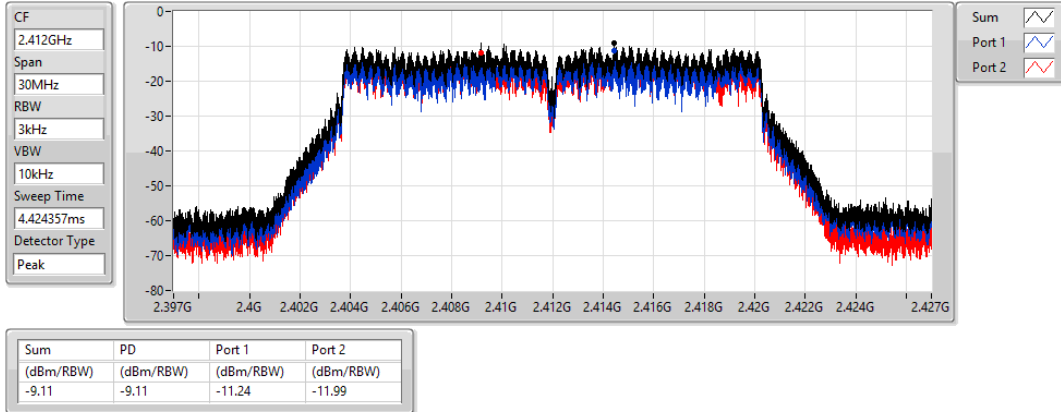
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.84	-3.84	-6.46	-5.91

802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

02/06/2021

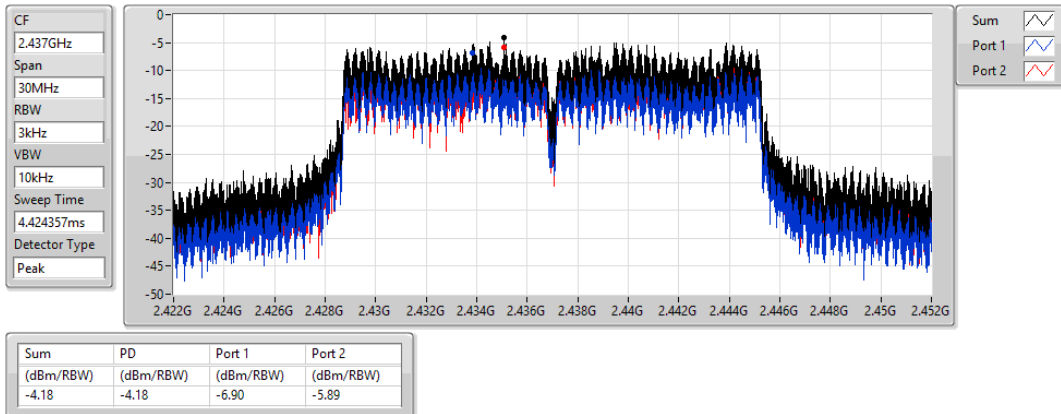


802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

02/06/2021

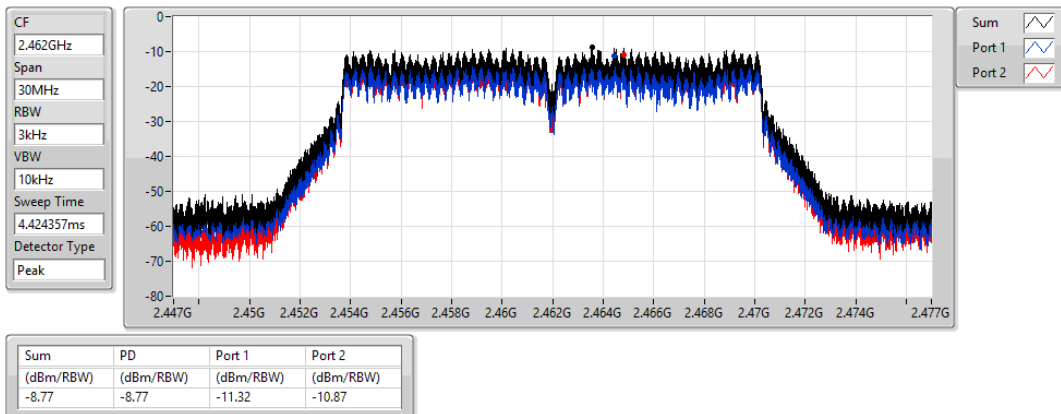


802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

02/06/2021

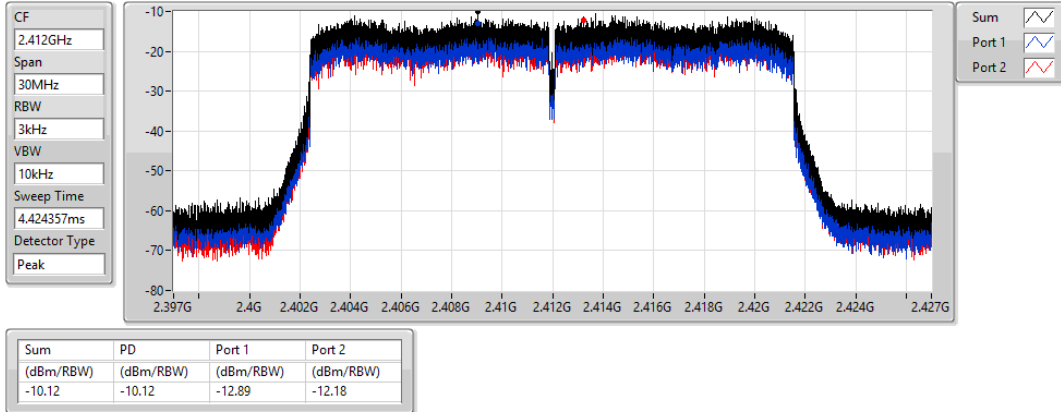


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2412MHz

02/06/2021

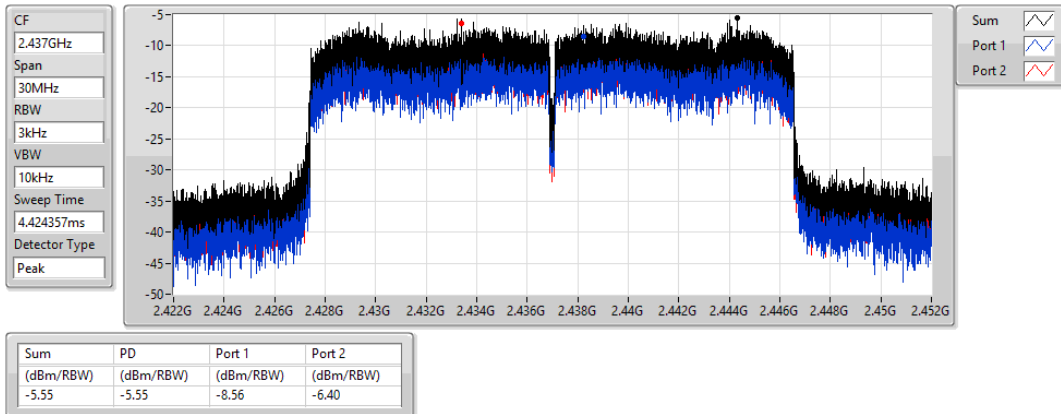


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2437MHz

02/06/2021

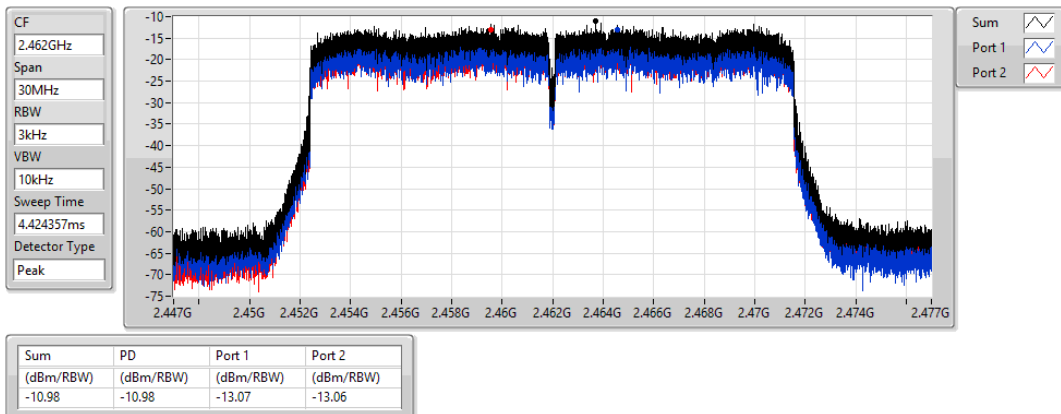


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

02/06/2021

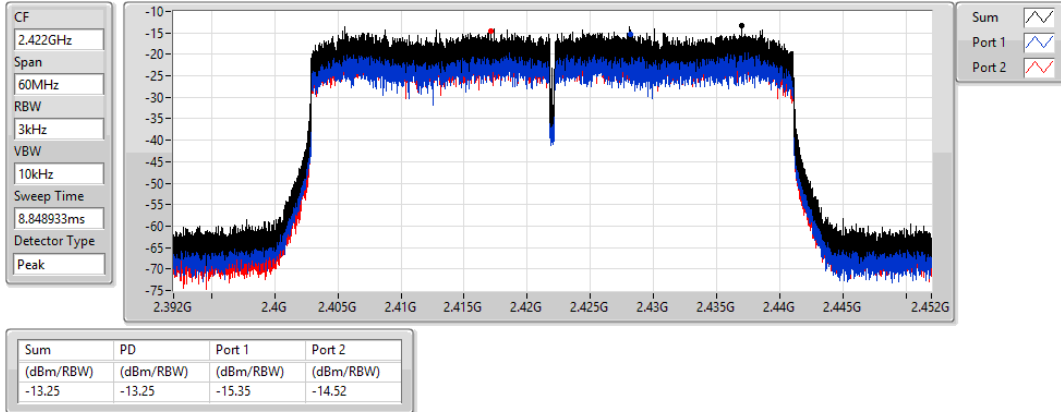


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2422MHz

02/06/2021

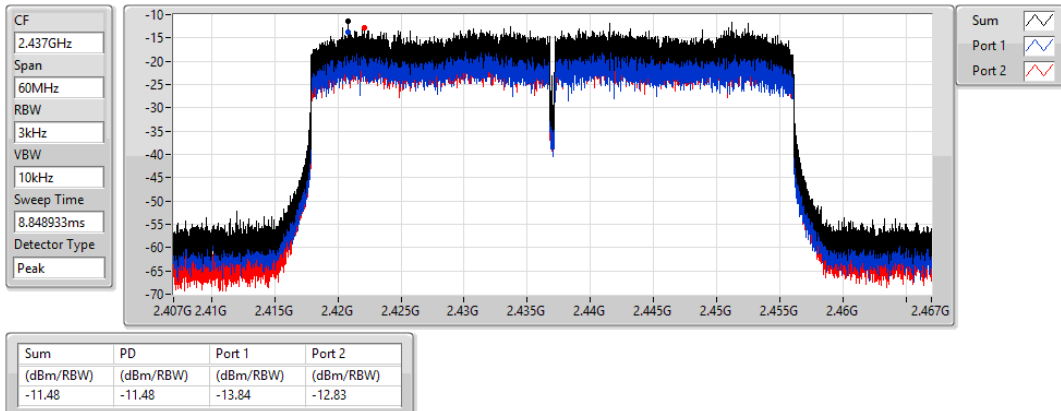


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2437MHz

02/06/2021

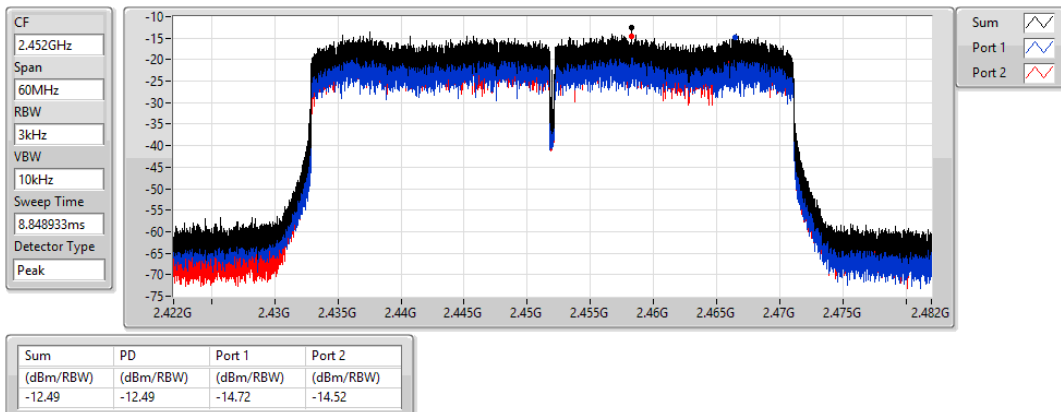


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2452MHz

02/06/2021



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	2.43849G	10.40	-19.60	47.77M	-46.54	2.4G	-29.98	2.4G	-30.53	2.485G	-38.33	15.18339G	-43.96	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44451G	10.63	-19.37	47.77M	-45.95	2.3998G	-33.32	2.4G	-40.79	2.50512G	-50.61	15.18339G	-44.66	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.44446G	9.24	-20.76	47.77M	-45.99	2.39918G	-34.91	2.4G	-46.41	2.48986G	-50.61	21.87858G	-45.18	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.43198G	2.65	-27.35	47.75M	-46.44	2.3982G	-35.91	2.4G	-41.76	2.48442G	-38.50	14.14354G	-45.50	1

Result

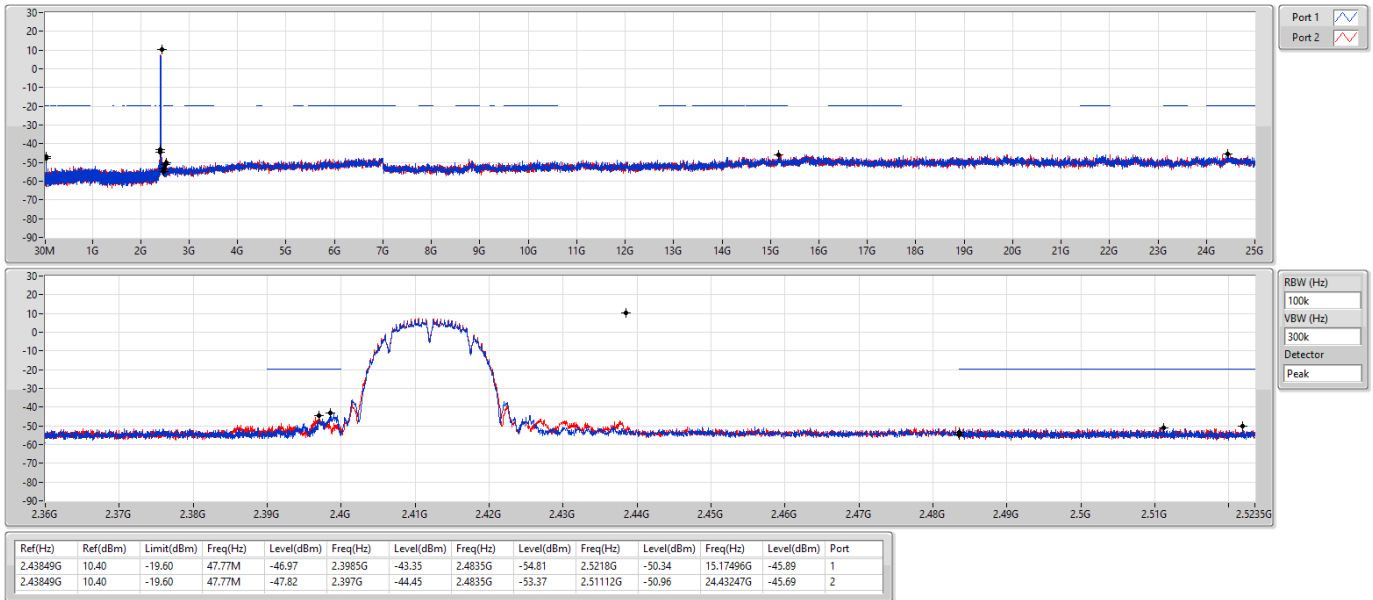
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1.(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43849G	10.40	-19.60	47.77M	-46.97	2.3985G	-43.35	2.4835G	-54.81	2.5218G	-50.34	15.17496G	-45.89	1
2412MHz	Pass	2.43849G	10.40	-19.60	47.77M	-47.82	2.397G	-44.45	2.4835G	-53.37	2.51112G	-50.96	24.43247G	-45.69	2
2437MHz	Pass	2.43849G	10.40	-19.60	47.77M	-46.54	2.4G	-29.98	2.4G	-30.53	2.485G	-38.33	15.18339G	-43.96	1
2437MHz	Pass	2.43849G	10.40	-19.60	47.77M	-48.29	2.4G	-42.46	2.4G	-41.77	2.485G	-45.07	15.19744G	-44.67	2
2462MHz	Pass	2.43849G	10.40	-19.60	47.77M	-46.86	2.39302G	-51.76	2.4835G	-47.96	2.48692G	-47.23	16.34093G	-45.29	1
2462MHz	Pass	2.43849G	10.40	-19.60	47.77M	-47.61	2.39314G	-50.57	2.4835G	-49.69	2.48796G	-47.74	6.99351G	-46.02	2
802.11g_Nss1.(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44451G	10.63	-19.37	47.77M	-45.95	2.3998G	-33.32	2.4G	-40.79	2.50512G	-50.61	15.18339G	-44.66	1
2412MHz	Pass	2.44451G	10.63	-19.37	47.77M	-48.71	2.39882G	-35.88	2.4G	-42.13	2.49964G	-50.35	6.5496G	-45.28	2
2437MHz	Pass	2.44451G	10.63	-19.37	47.77M	-47.00	2.39948G	-36.07	2.4G	-37.38	2.48482G	-42.24	14.84905G	-45.43	1
2437MHz	Pass	2.44451G	10.63	-19.37	47.77M	-48.92	2.39946G	-34.24	2.4G	-38.30	2.48354G	-37.51	24.03351G	-45.54	2
2462MHz	Pass	2.44451G	10.63	-19.37	47.77M	-47.06	2.39676G	-50.67	2.4835G	-41.89	2.48382G	-36.91	15.19744G	-45.08	1
2462MHz	Pass	2.44451G	10.63	-19.37	47.77M	-47.44	2.39428G	-50.83	2.4835G	-39.53	2.48536G	-40.44	24.15432G	-44.79	2
802.11ax HEW20_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44446G	9.24	-20.76	47.77M	-45.99	2.39918G	-34.91	2.4G	-46.41	2.48986G	-50.61	21.87858G	-45.18	1
2412MHz	Pass	2.44446G	9.24	-20.76	47.77M	-48.10	2.39978G	-36.62	2.4G	-47.62	2.51774G	-50.00	15.20025G	-44.91	2
2437MHz	Pass	2.44446G	9.24	-20.76	47.77M	-46.32	2.39898G	-37.20	2.4G	-39.43	2.48384G	-42.13	16.46736G	-44.77	1
2437MHz	Pass	2.44446G	9.24	-20.76	47.77M	-46.97	2.39432G	-37.92	2.4G	-42.32	2.49594G	-39.80	24.46056G	-44.92	2
2462MHz	Pass	2.44446G	9.24	-20.76	47.77M	-46.57	2.39426G	-51.28	2.4835G	-46.55	2.48496G	-40.09	24.40437G	-44.99	1
2462MHz	Pass	2.44446G	9.24	-20.76	47.77M	-46.77	2.39126G	-51.23	2.4835G	-48.38	2.48446G	-44.35	24.85109G	-45.44	2
802.11ax HEW40_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	2.65	-27.35	47.75M	-45.97	2.39992G	-36.82	2.4G	-46.29	2.4847G	-48.97	15.18123G	-45.38	1
2422MHz	Pass	2.43198G	2.65	-27.35	47.75M	-48.82	2.39948G	-43.01	2.4G	-40.42	2.4847G	-50.01	15.17562G	-45.39	2
2437MHz	Pass	2.43198G	2.65	-27.35	47.75M	-46.44	2.3982G	-35.91	2.4G	-41.76	2.48442G	-38.50	14.14354G	-45.50	1
2437MHz	Pass	2.43198G	2.65	-27.35	47.75M	-49.30	2.39828G	-39.31	2.4835G	-44.95	2.48422G	-38.61	15.19244G	-44.97	2
2452MHz	Pass	2.43198G	2.65	-27.35	47.75M	-46.11	2.39512G	-45.71	2.4835G	-43.44	2.4859G	-41.68	24.46713G	-45.41	1
2452MHz	Pass	2.43198G	2.65	-27.35	47.75M	-47.24	2.39868G	-47.81	2.4835G	-46.59	2.4895G	-41.06	21.50271G	-45.64	2

802.11b_Nss1,(1Mbps)_2TX

2412MHz

CSE NdB

02/06/2021

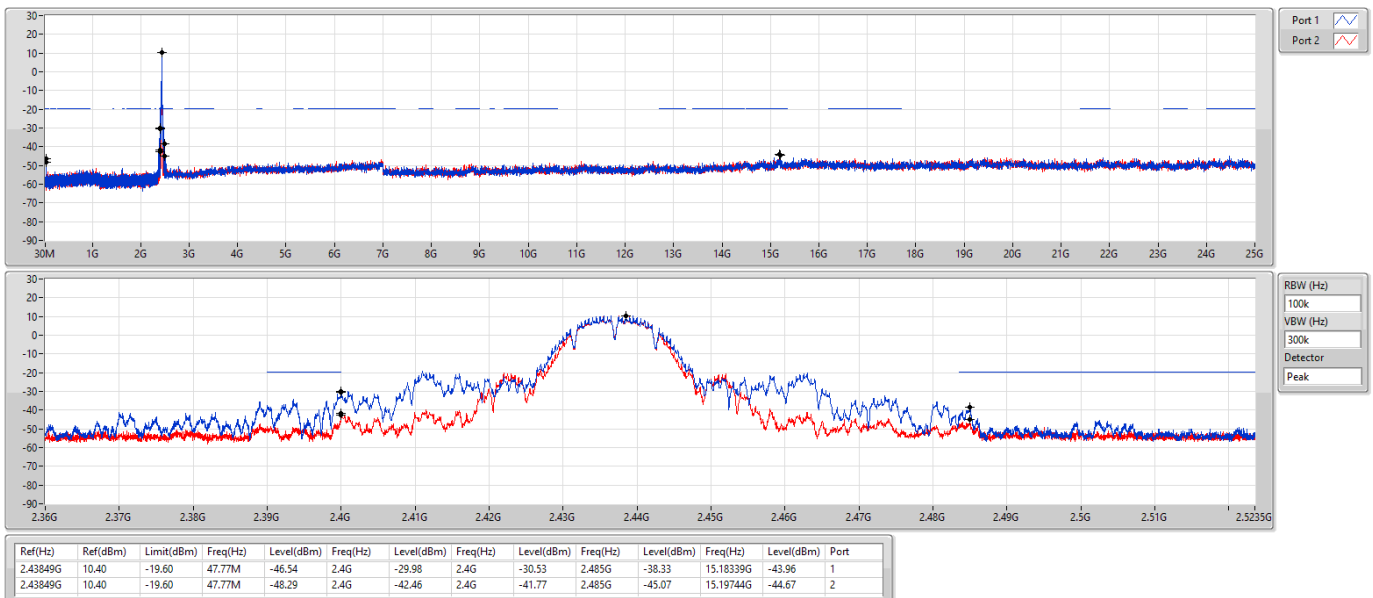


802.11b_Nss1,(1Mbps)_2TX

2437MHz

CSE NdB

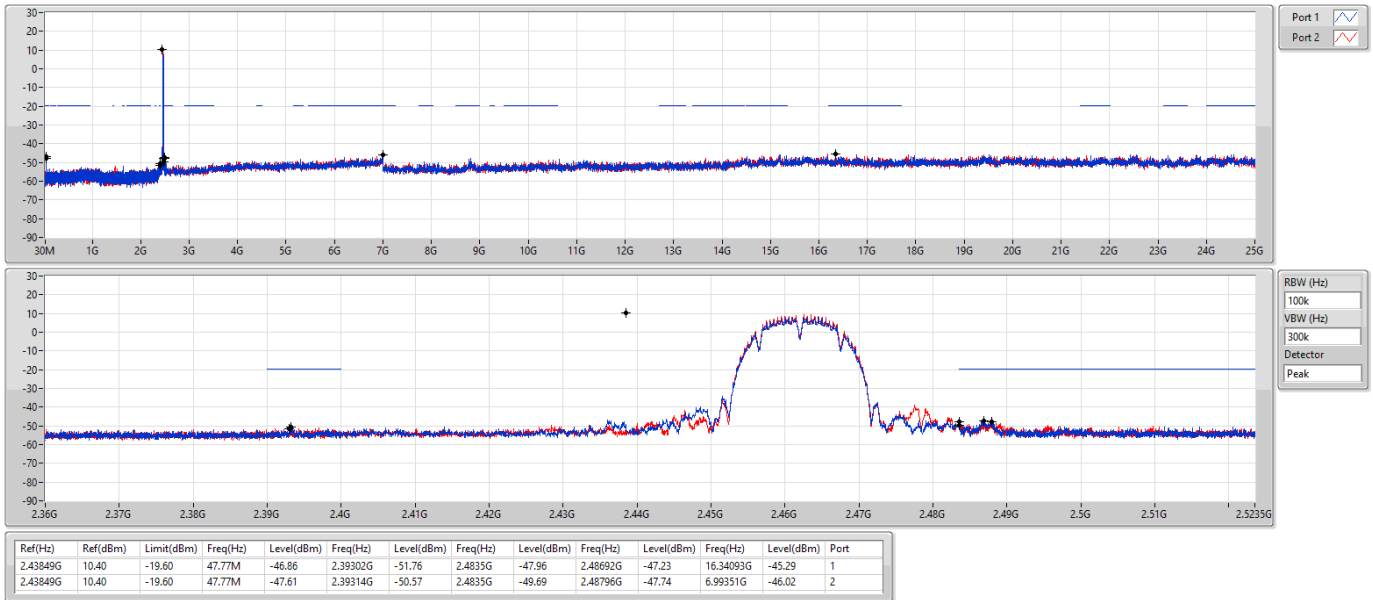
02/06/2021



802.11b_Nss1,(1Mbps)_2TX

2462MHz

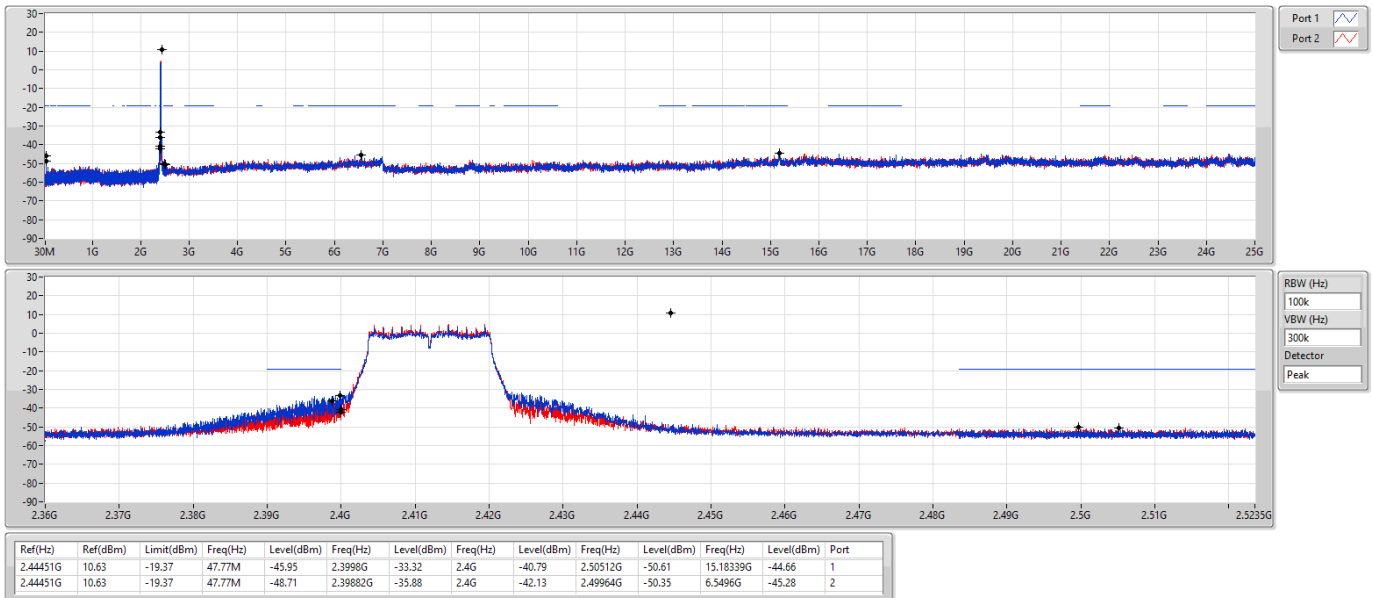
CSE NdB



802.11g_Nss1,(6Mbps)_2TX

2412MHz

CSE NdB

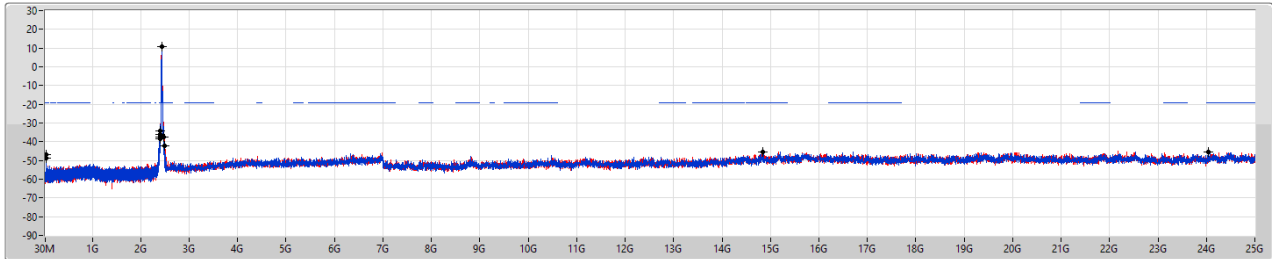


802.11g_Nss1,(6Mbps)_2TX

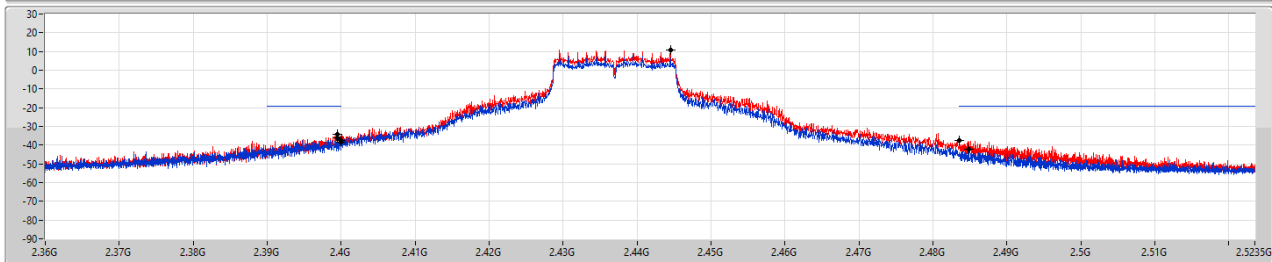
2437MHz

CSE NdB

02/06/2021



Port 1
Port 2



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

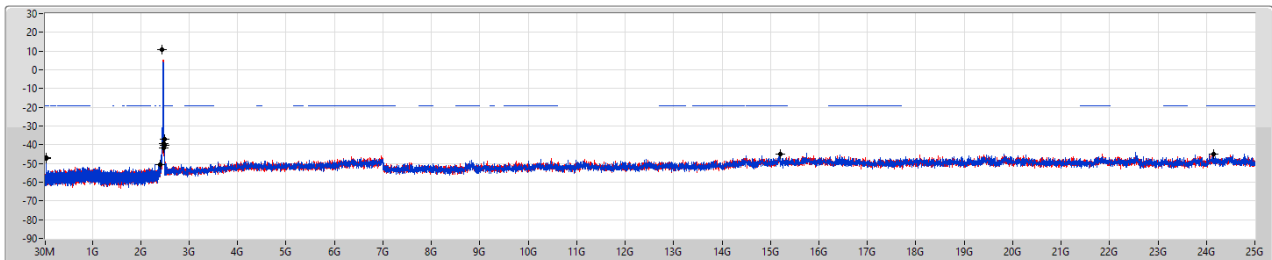
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44451G	10.63	-19.37	47.77M	-47.00	2.39948G	-36.07	2.4G	-37.38	2.48482G	-42.24	14.84905G	-45.43	1
2.44451G	10.63	-19.37	47.77M	-48.92	2.39946G	-34.24	2.4G	-38.30	2.48354G	-37.51	24.03351G	-45.54	2

802.11g_Nss1,(6Mbps)_2TX

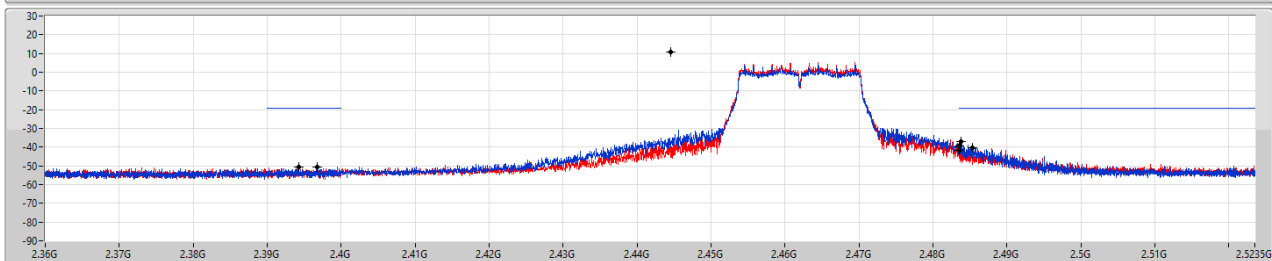
2462MHz

CSE NdB

02/06/2021



Port 1
Port 2



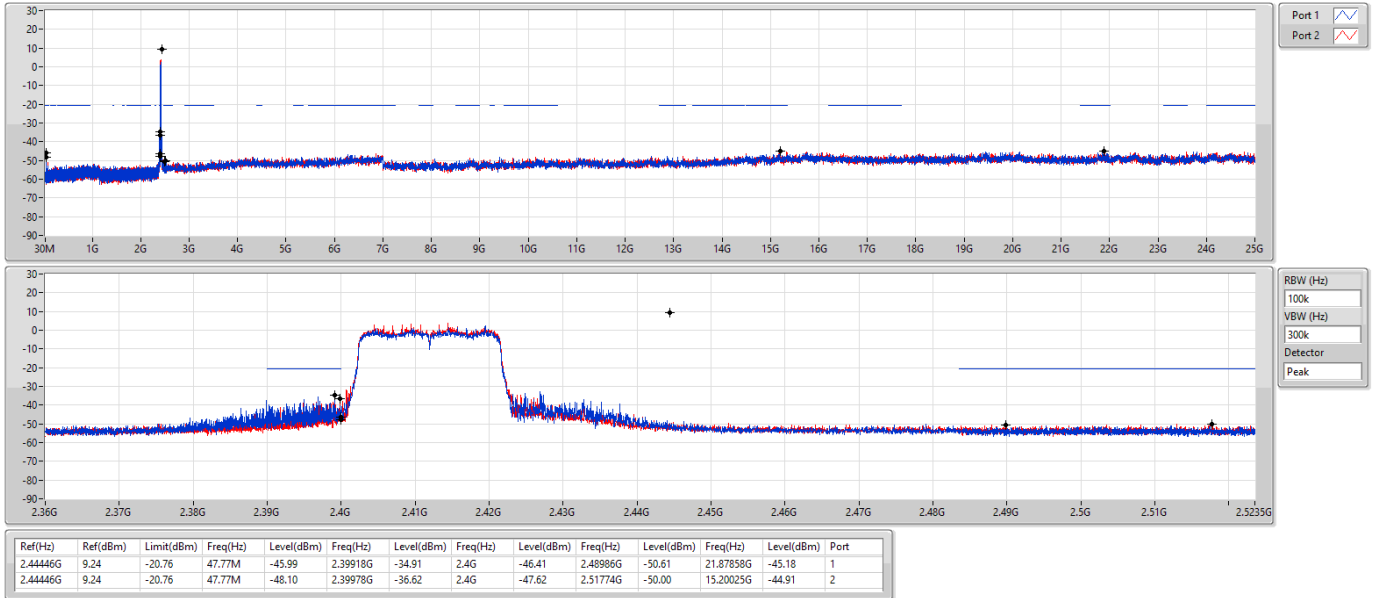
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.44451G	10.63	-19.37	47.77M	-47.06	2.39676G	-50.67	2.4835G	-41.89	2.48382G	-36.91	15.19744G	-45.08	1
2.44451G	10.63	-19.37	47.77M	-47.44	2.39428G	-50.83	2.4835G	-39.53	2.48536G	-40.44	24.15432G	-44.79	2

802.11ax HEW20_Nss1,(MCS0)_2TX

CSE NdB

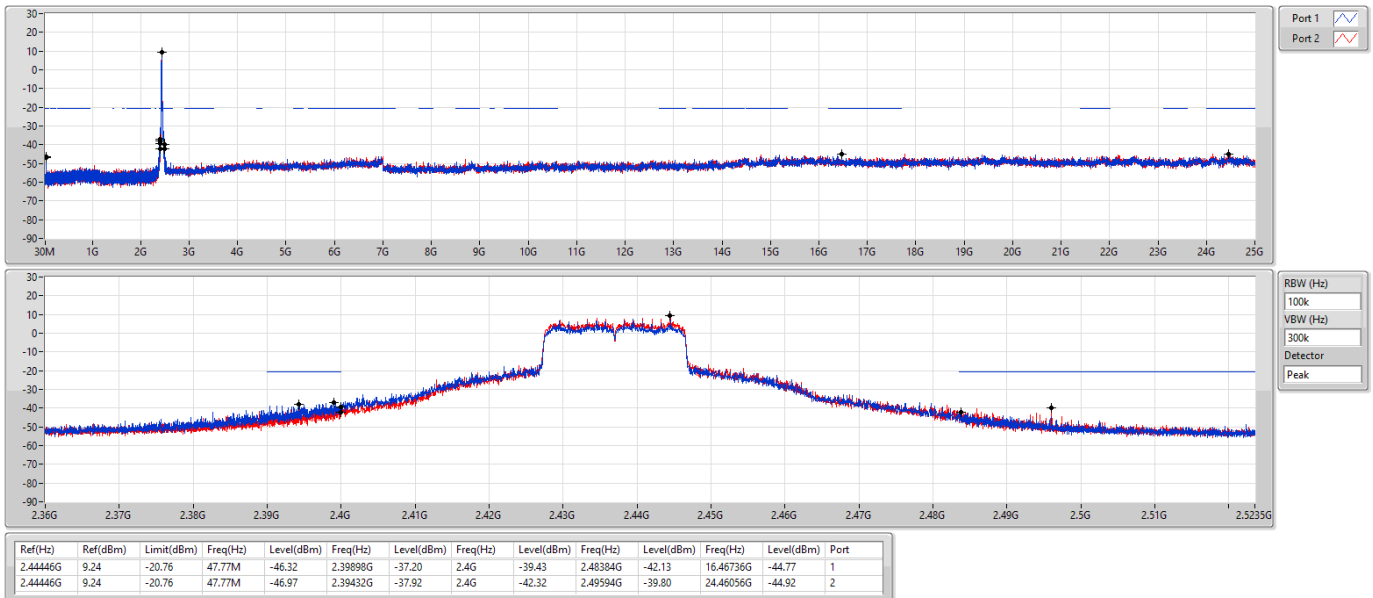
2412MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

CSE NdB

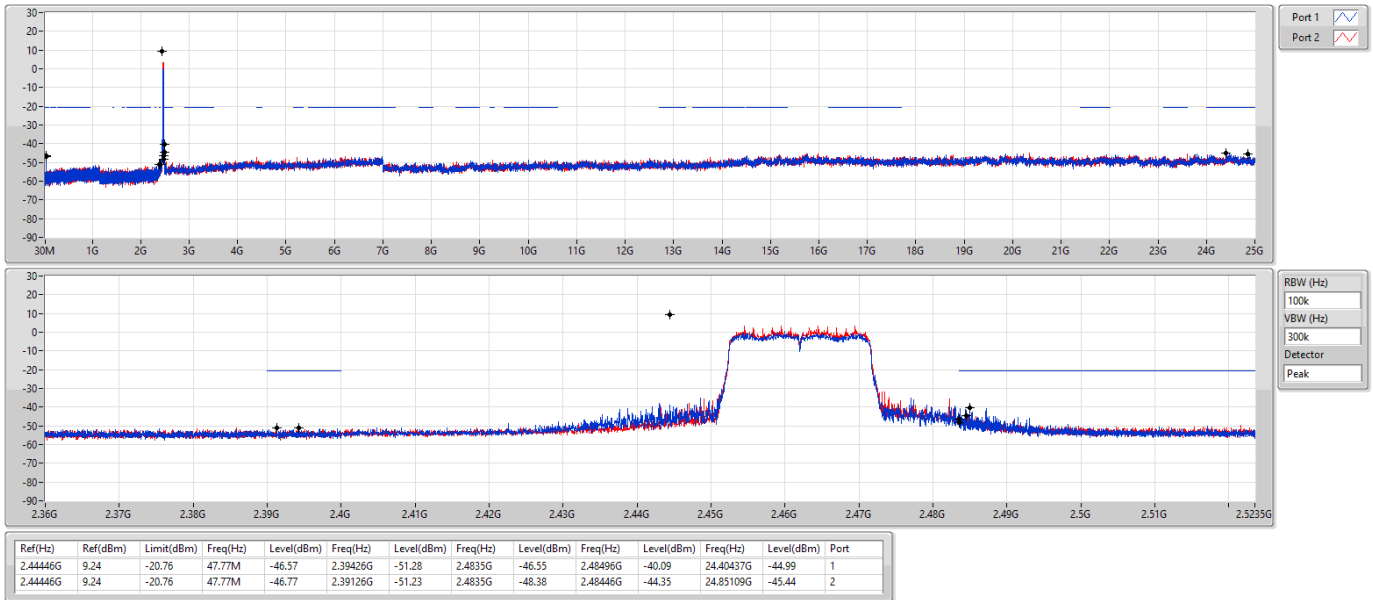
2437MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz

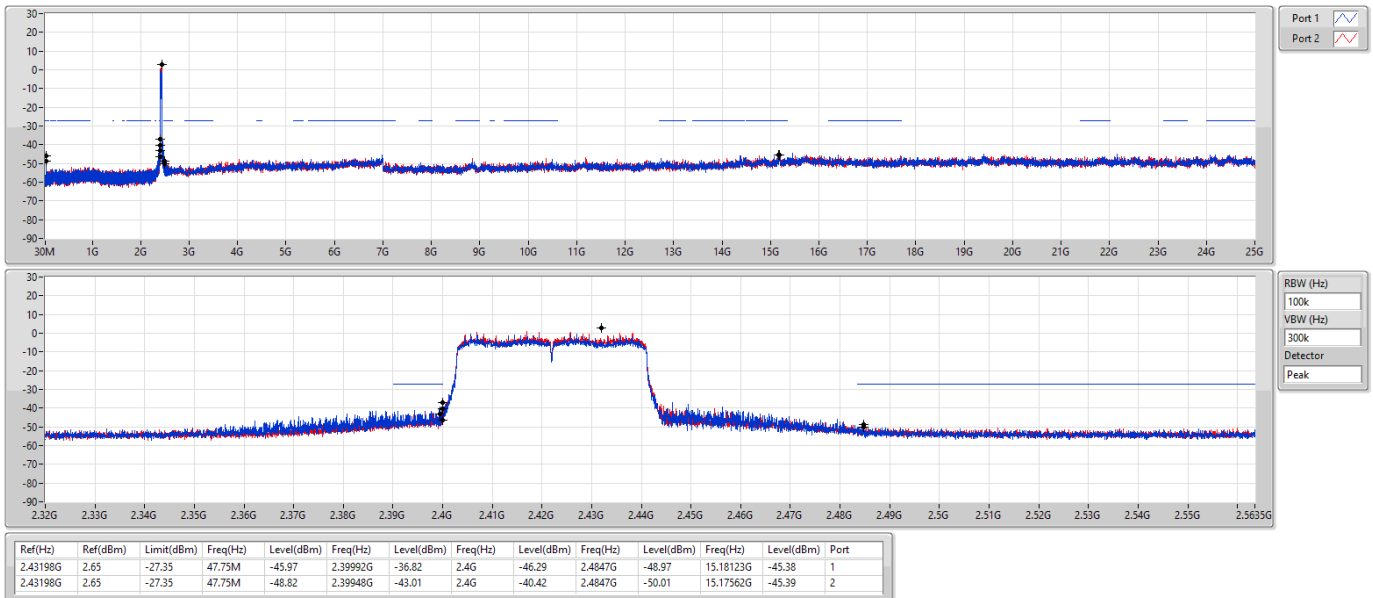
CSE NdB



802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz

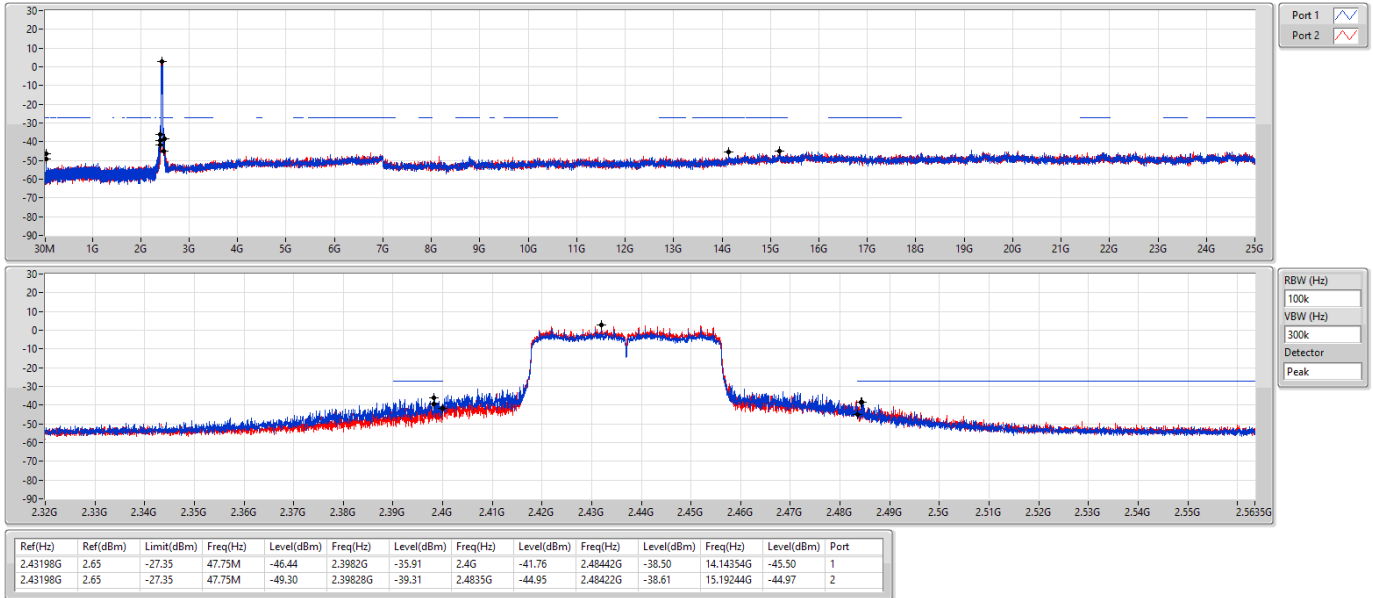
CSE NdB



802.11ax HEW40_Nss1,(MCS0)_2TX

CSE NdB

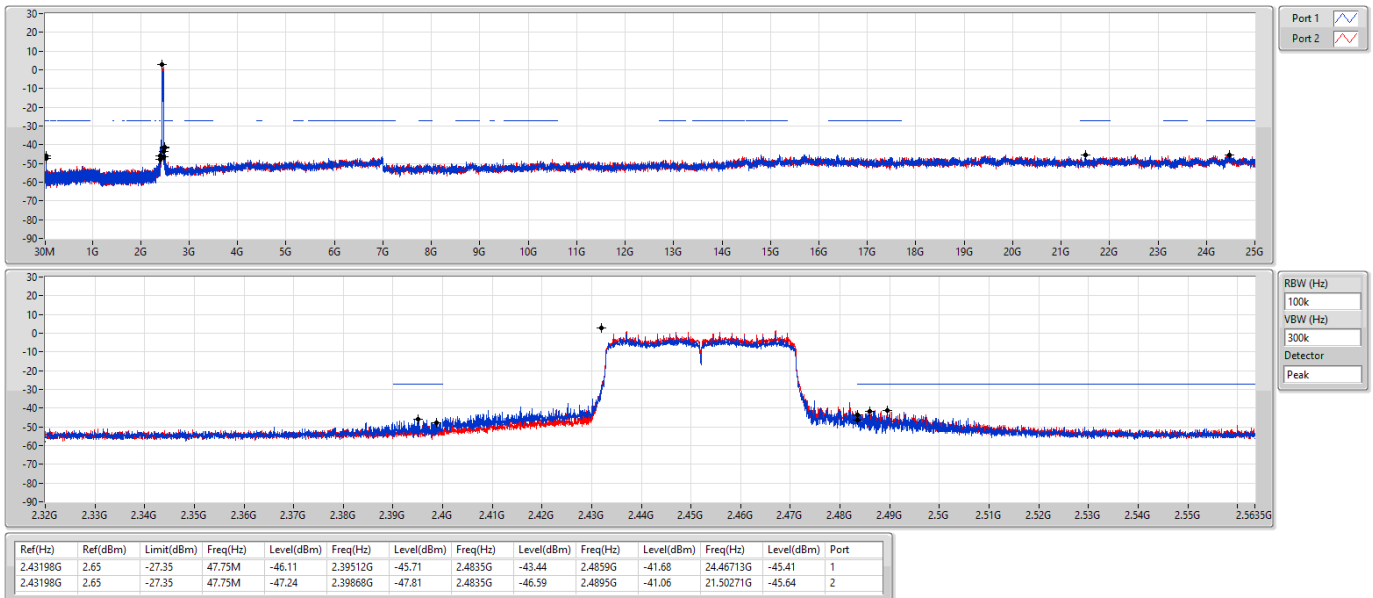
2437MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

CSE NdB

2452MHz





Radiated Emissions below 1GHz

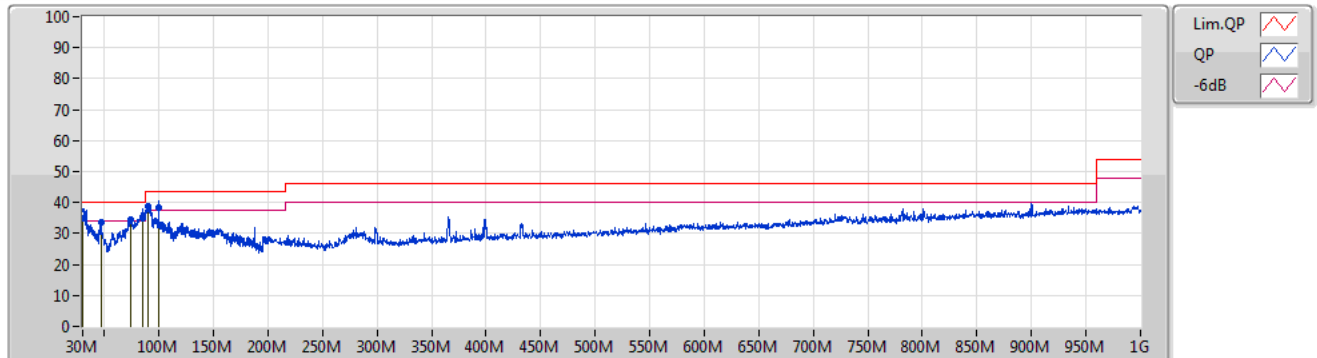
Appendix F.1

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	90.18M	38.76	43.50	-4.74	Vertical

24/09/2021

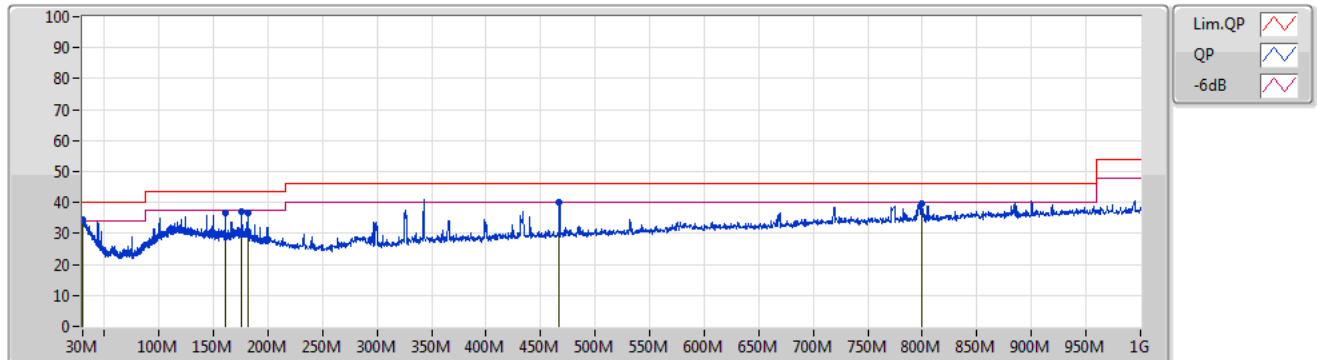
Mode 2



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)
QP	30.51M	34.86	40.00	-5.14	-3.21	3	Vertical	17	1.00	-	38.07	23.65	1.02	27.88
PK	46.58M	33.77	40.00	-6.23	-11.51	3	Vertical	44	1.00	-	45.28	15.00	1.43	27.94
PK	73.44M	34.51	40.00	-5.49	-13.62	3	Vertical	96	1.00	-	48.13	12.19	1.97	27.78
QP	84.91M	34.76	40.00	-5.24	-11.97	3	Vertical	350	2.00	-	46.73	13.68	2.20	27.85
PK	90.18M	38.76	43.50	-4.74	-10.78	3	Vertical	301	4.00	"Worst"	49.54	14.87	2.20	27.85
QP	99.96M	38.32	43.50	-5.18	-8.43	3	Vertical	279	1.00	-	46.75	16.98	2.40	27.81

24/09/2021

Mode 2



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	30.43M	34.66	40.00	-5.34	-3.19	3	Horizontal	28	2.00	"Worst"	37.85	23.67	1.02	27.88
PK	176.03M	37.25	43.50	-6.25	-8.53	3	Horizontal	3	2.00	-	45.78	15.43	3.44	27.40
PK	181.22M	36.85	43.50	-6.65	-8.60	3	Horizontal	81	2.00	-	45.45	15.25	3.51	27.36
PK	467.2M	39.94	46.00	-6.06	-6.09	3	Horizontal	102	1.00	-	46.03	17.01	4.67	27.77
PK	799.2M	39.83	46.00	-6.17	-0.24	3	Horizontal	354	2.00	-	40.07	20.59	6.30	27.13
PK	160.82M	36.51	43.50	-6.99	-8.36	3	Horizontal	208	2.00	-	44.87	15.94	3.21	27.51



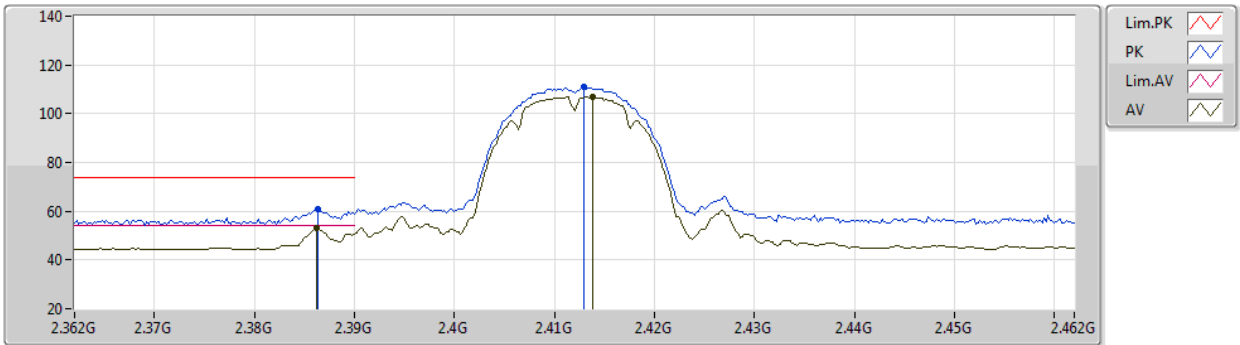
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.4846G	52.97	54.00	-1.03	3	Vertical	260	1.99	-

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2412MHz_TX



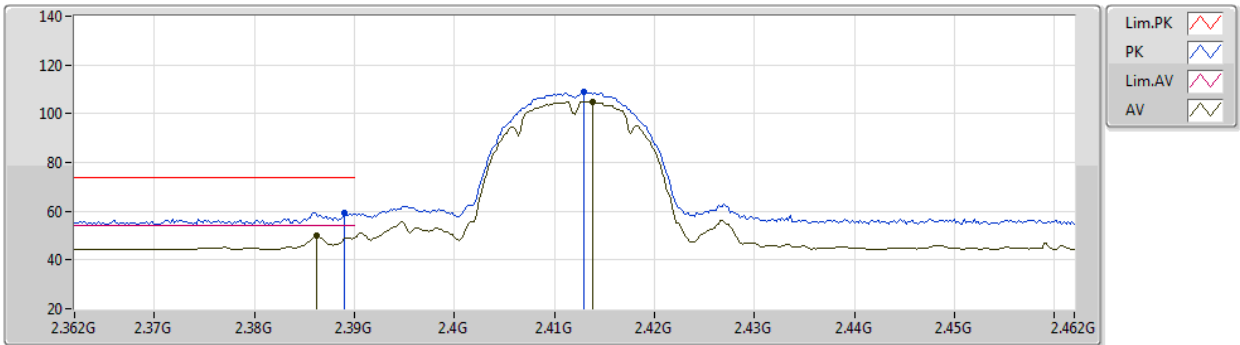
EUT X_2TX
Setting 17
03-C-B-2

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	2.3864G	60.96	74.00	-13.04	29.14	3	Vertical	277	2.49	-	28.33	3.49	-
AV	2.3862G	52.94	54.00	-1.06	21.12	3	Vertical	277	2.49	-	28.33	3.49	-
PK	2.413G	110.78	Inf	-Inf	78.94	3	Vertical	277	2.49	-	28.33	3.51	-
AV	2.4138G	106.93	Inf	-Inf	75.09	3	Vertical	277	2.49	-	28.33	3.51	-

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2412MHz_TX



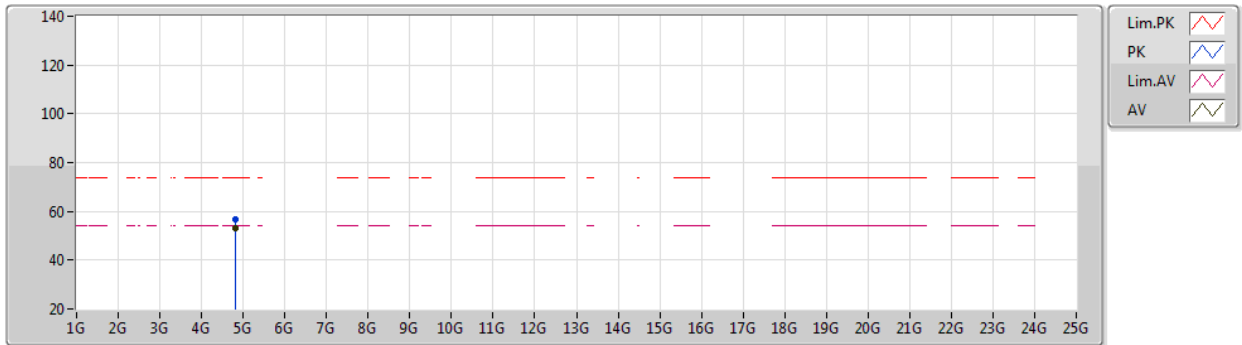
EUT X_2TX
Setting 17
03-C-B-2

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	59.34	74.00	-14.66	27.53	3	Horizontal	207	2.09	-	28.32	3.49	-
AV	2.3862G	49.82	54.00	-4.18	18.00	3	Horizontal	207	2.09	-	28.33	3.49	-
PK	2.413G	108.78	Inf	-Inf	76.94	3	Horizontal	207	2.09	-	28.33	3.51	-
AV	2.4138G	104.96	Inf	-Inf	73.12	3	Horizontal	207	2.09	-	28.33	3.51	-

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2412MHz_TX

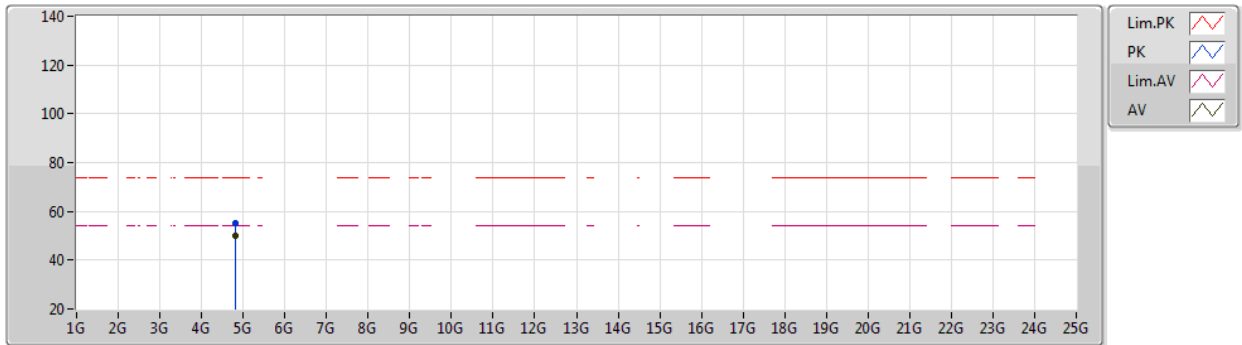

EUT X_2TX
Setting 17
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.82395G	56.59	74.00	-17.41	52.25	3	Vertical	181	1.02	-	33.40	6.24	35.30	
AV	4.82395G	52.85	54.00	-1.15	48.51	3	Vertical	181	1.02	-	33.40	6.24	35.30	

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2412MHz_TX



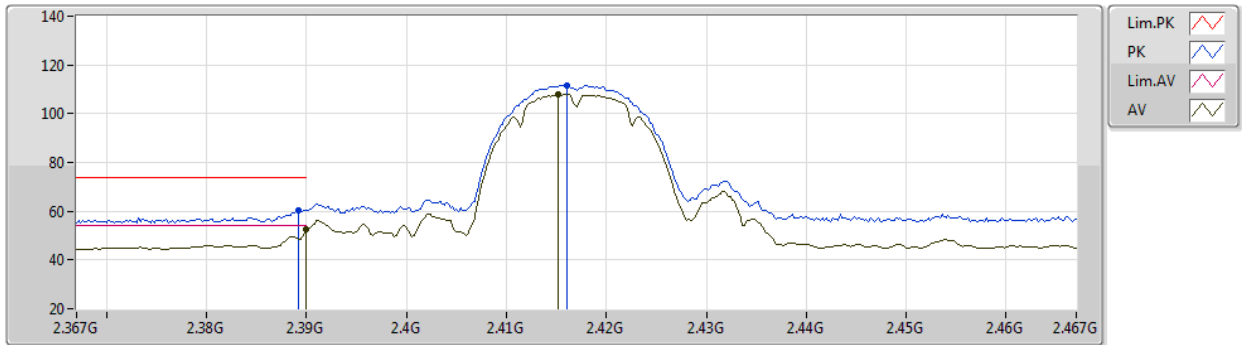
EUT X_2TX
Setting 17
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82403G	55.06	74.00	-18.94	50.72	3	Horizontal	315	1.27	-	33.40	6.24	35.30
AV	4.82397G	50.14	54.00	-3.86	45.80	3	Horizontal	315	1.27	-	33.40	6.24	35.30

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2417MHz_TX



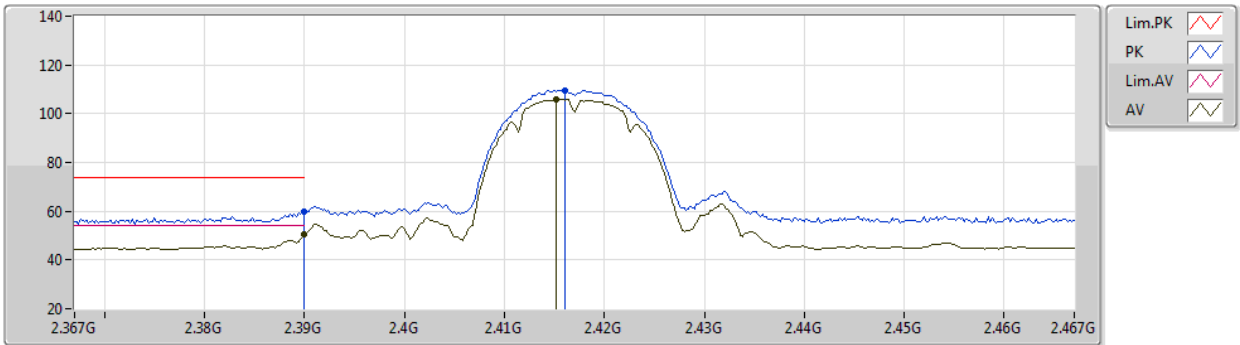
EUT X_2TX
Setting 18.5
03-C-B-2

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	2.3892G	60.44	74.00	-13.56	28.63	3	Vertical	258	2.06	-	28.32	3.49	-
AV	2.39G	52.33	54.00	-1.67	20.52	3	Vertical	258	2.06	-	28.32	3.49	-
PK	2.416G	111.64	Inf	-Inf	79.79	3	Vertical	258	2.06	-	28.33	3.52	-
AV	2.4152G	107.88	Inf	-Inf	76.03	3	Vertical	258	2.06	-	28.33	3.52	-

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2417MHz_TX



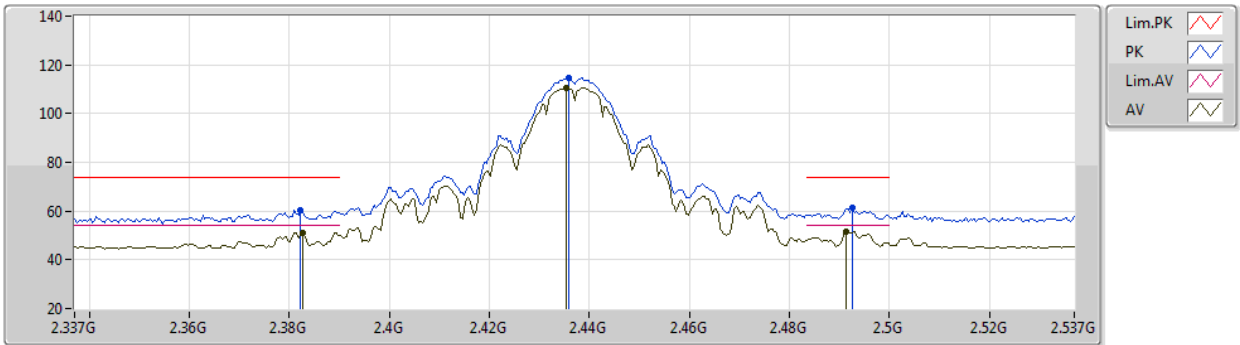
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Setting 18.5
03-C-B-2

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	59.79	74.00	-14.21	27.98	3	Horizontal	206	2.08	-	28.32	3.49	-
AV	2.39G	50.26	54.00	-3.74	18.45	3	Horizontal	206	2.08	-	28.32	3.49	-
PK	2.416G	109.73	Inf	-Inf	77.88	3	Horizontal	206	2.08	-	28.33	3.52	-
AV	2.4152G	106.00	Inf	-Inf	74.15	3	Horizontal	206	2.08	-	28.33	3.52	-

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2437MHz_TX



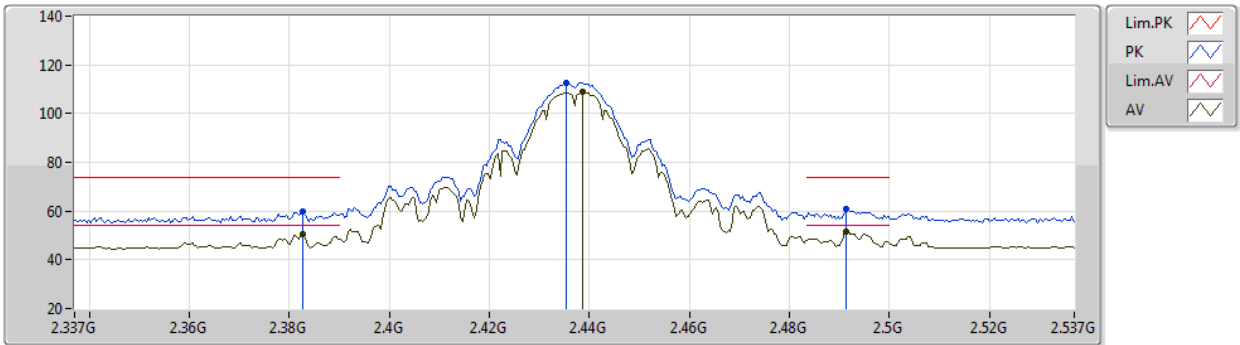
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Setting 20.5
03-C-B-2

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	2.3822G	60.34	74.00	-13.66	28.52	3	Vertical	283	1.76	-	28.34	3.48	-
AV	2.3826G	51.26	54.00	-2.74	19.45	3	Vertical	283	1.76	-	28.33	3.48	-
PK	2.4358G	114.55	Inf	-Inf	82.64	3	Vertical	283	1.76	-	28.37	3.54	-
AV	2.4354G	110.52	Inf	-Inf	78.61	3	Vertical	283	1.76	-	28.37	3.54	-
PK	2.4926G	61.14	74.00	-12.86	28.89	3	Vertical	283	1.76	-	28.66	3.59	-
AV	2.4914G	51.69	54.00	-2.31	19.45	3	Vertical	283	1.76	-	28.65	3.59	-

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2437MHz_TX



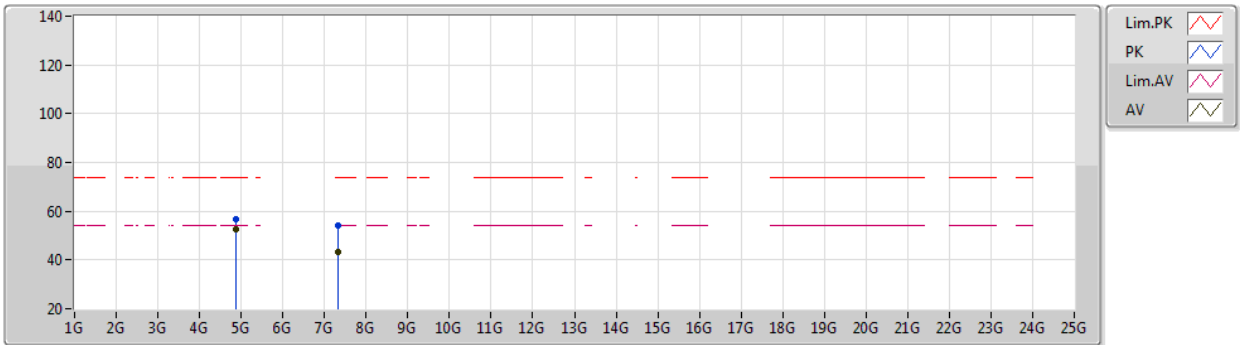
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Setting 20.5
03-C-B-2

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	59.81	74.00	-14.19	28.00	3	Horizontal	206	2.42	-	28.33	3.48	-
AV	2.3826G	50.67	54.00	-3.33	18.86	3	Horizontal	206	2.42	-	28.33	3.48	-
PK	2.4354G	112.67	Inf	-Inf	80.76	3	Horizontal	206	2.42	-	28.37	3.54	-
AV	2.4386G	108.88	Inf	-Inf	76.96	3	Horizontal	206	2.42	-	28.38	3.54	-
PK	2.4914G	60.75	74.00	-13.25	28.51	3	Horizontal	206	2.42	-	28.65	3.59	-
AV	2.4914G	51.38	54.00	-2.62	19.14	3	Horizontal	206	2.42	-	28.65	3.59	-

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2437MHz_TX



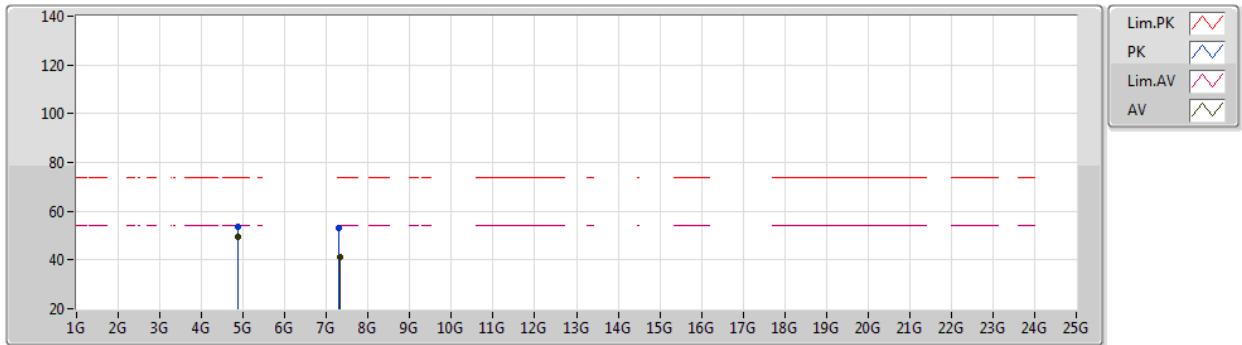
EUT X_2TX
Setting 20.5
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87404G	56.87	74.00	-17.13	52.42	3	Vertical	180	1.04	-	33.50	6.31	35.36
AV	4.87398G	52.75	54.00	-1.25	48.30	3	Vertical	180	1.04	-	33.50	6.31	35.36
PK	7.31156G	54.10	74.00	-19.90	44.62	3	Vertical	186	2.96	-	37.00	7.87	35.39
AV	7.31172G	43.19	54.00	-10.81	33.71	3	Vertical	186	2.96	-	37.00	7.87	35.39

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2437MHz_TX



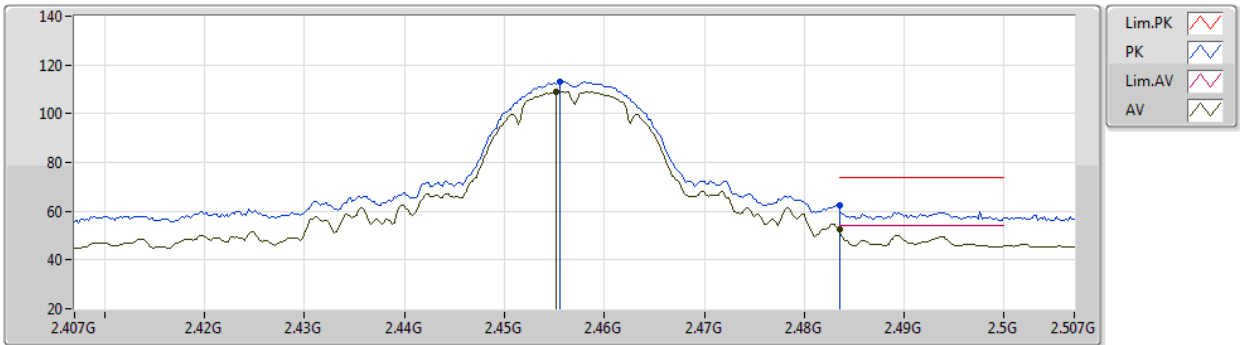
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Setting 20.5
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87408G	53.83	74.00	-20.17	49.38	3	Horizontal	312	2.20	-	33.50	6.31	35.36
AV	4.87401G	49.23	54.00	-4.77	44.78	3	Horizontal	312	2.20	-	33.50	6.31	35.36
PK	7.31G	53.24	74.00	-20.76	43.77	3	Horizontal	187	2.65	-	37.00	7.86	35.39
AV	7.31172G	41.22	54.00	-12.78	31.74	3	Horizontal	187	2.65	-	37.00	7.87	35.39

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2457MHz_TX



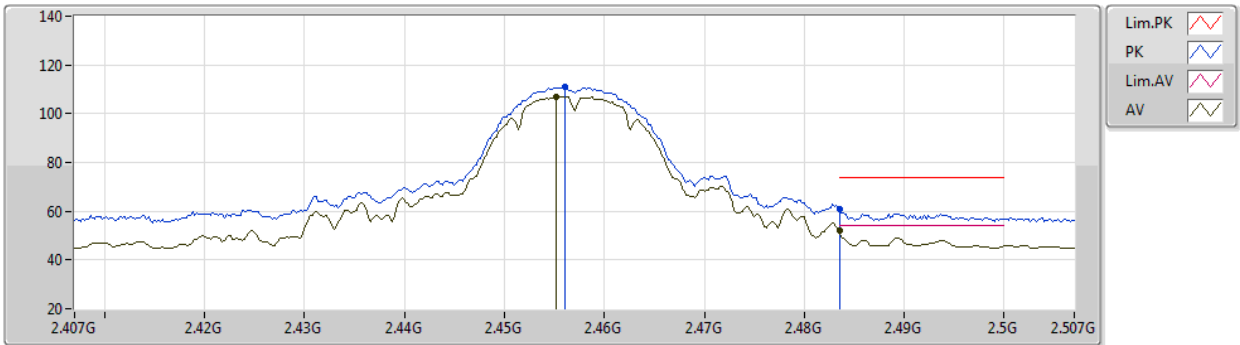
EUT X_2TX
Setting 20
03-C-B-2

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	2.4556G	112.89	Inf	-Inf	80.90	3	Vertical	263	2.16	-	28.43	3.56	-
AV	2.4552G	109.07	Inf	-Inf	77.08	3	Vertical	263	2.16	-	28.43	3.56	-
PK	2.4835G	62.20	74.00	-11.80	30.02	3	Vertical	263	2.16	-	28.60	3.58	-
AV	2.4835G	52.43	54.00	-1.57	20.25	3	Vertical	263	2.16	-	28.60	3.58	-

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2457MHz_TX



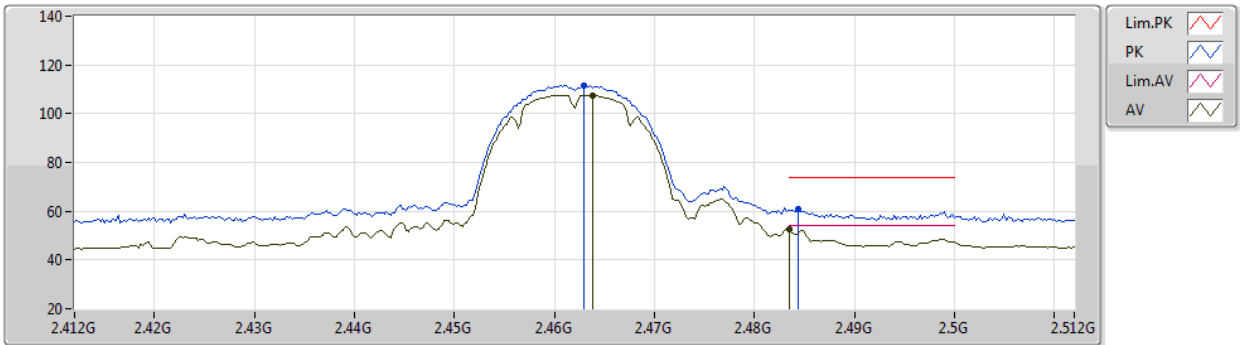
EUT X_2TX
Setting 20
03-C-B-2

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	110.84	Inf	-Inf	78.84	3	Horizontal	207	2.60	-	28.44	3.56	-
AV	2.4552G	107.11	Inf	-Inf	75.12	3	Horizontal	207	2.60	-	28.43	3.56	-
PK	2.4835G	60.85	74.00	-13.15	28.67	3	Horizontal	207	2.60	-	28.60	3.58	-
AV	2.4835G	52.21	54.00	-1.79	20.03	3	Horizontal	207	2.60	-	28.60	3.58	-

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2462MHz_TX



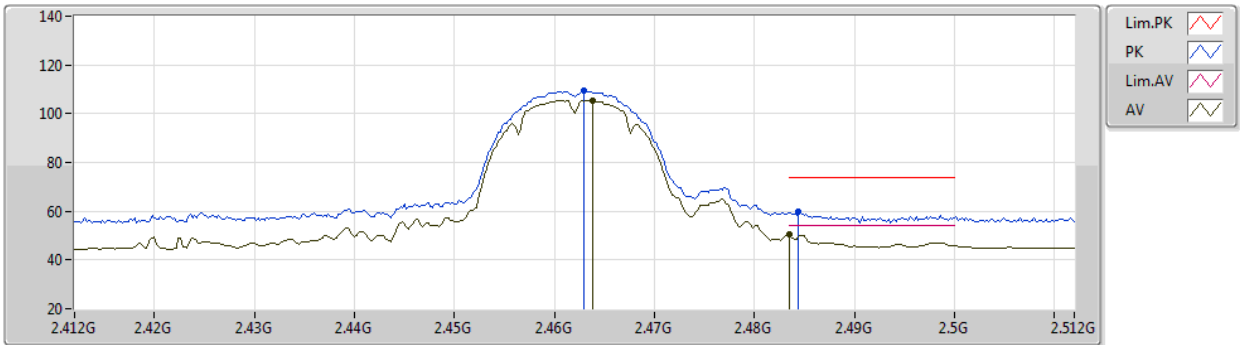
EUT X_2TX
Setting 18.5
03-C-B-2

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	111.58	Inf	-Inf	79.54	3	Vertical	271	2.14	-	28.48	3.56	-
AV	2.4638G	107.66	Inf	-Inf	75.62	3	Vertical	271	2.14	-	28.48	3.56	-
PK	2.4844G	60.80	74.00	-13.20	28.61	3	Vertical	271	2.14	-	28.61	3.58	-
AV	2.4835G	52.80	54.00	-1.20	20.62	3	Vertical	271	2.14	-	28.60	3.58	-

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2462MHz_TX



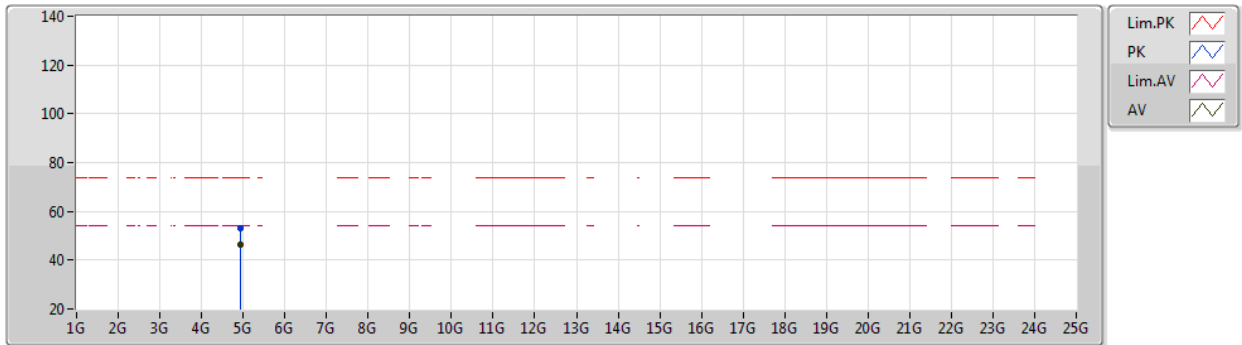
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Setting 18.5
03-C-B-2

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	109.24	Inf	-Inf	77.20	3	Horizontal	206	2.25	-	28.48	3.56	-
AV	2.4638G	105.39	Inf	-Inf	73.35	3	Horizontal	206	2.25	-	28.48	3.56	-
PK	2.4844G	59.58	74.00	-14.42	27.39	3	Horizontal	206	2.25	-	28.61	3.58	-
AV	2.4835G	50.26	54.00	-3.74	18.08	3	Horizontal	206	2.25	-	28.60	3.58	-

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2462MHz_TX



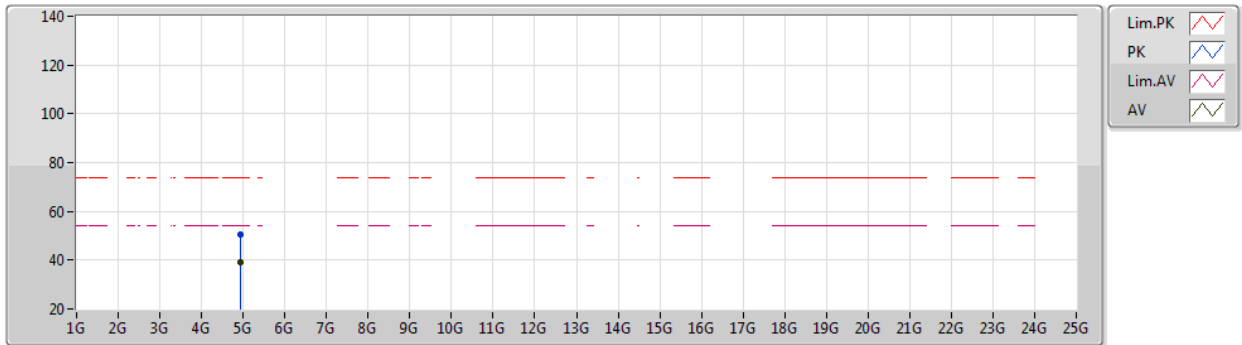
EUT X_2TX
Setting 18.5
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.92398G	53.13	74.00	-20.87	48.50	3	Vertical	253	1.61	-	33.65	6.39	35.41	
AV	4.92396G	46.39	54.00	-7.61	41.76	3	Vertical	253	1.61	-	33.65	6.39	35.41	

802.11b_Nss1,(1Mbps)_2TX

28/05/2021

2462MHz_TX



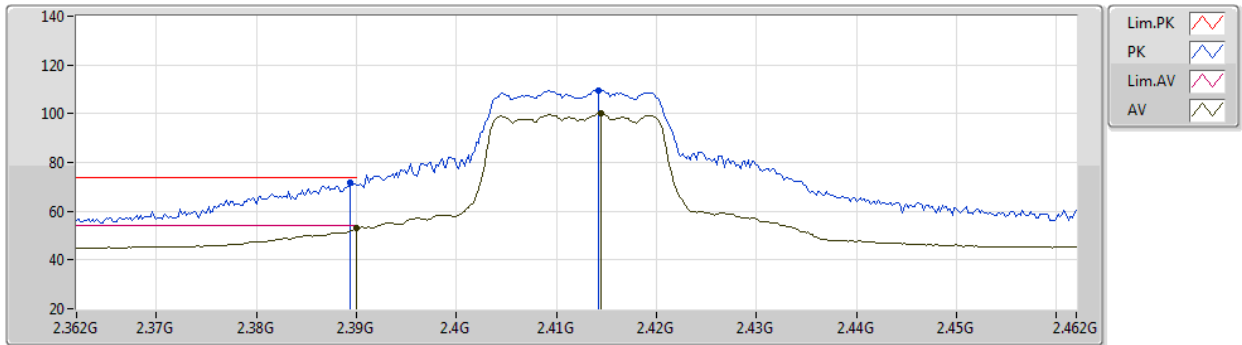
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Setting 18.5
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92453G	50.44	74.00	-23.56	45.81	3	Horizontal	239	2.32	-	33.65	6.39	35.41
AV	4.92393G	39.00	54.00	-15.00	34.37	3	Horizontal	239	2.32	-	33.65	6.39	35.41

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2412MHz_TX



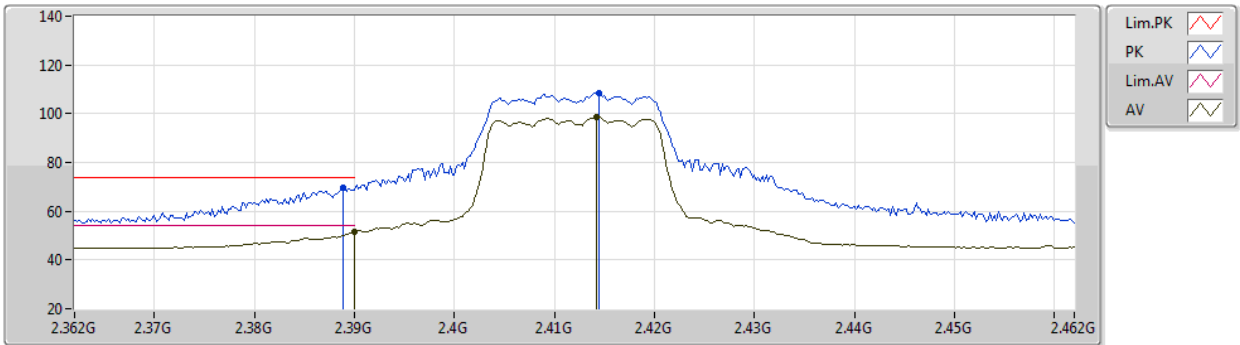
EUT X_2TX
Setting 14.5
03-C-B-2

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	2.3894G	71.65	74.00	-2.35	39.84	3	Vertical	283	1.80	-	28.32	3.49	-
AV	2.39G	52.92	54.00	-1.08	21.11	3	Vertical	283	1.80	-	28.32	3.49	-
PK	2.4142G	109.70	Inf	-Inf	77.86	3	Vertical	283	1.80	-	28.33	3.51	-
AV	2.4144G	100.00	Inf	-Inf	68.16	3	Vertical	283	1.80	-	28.33	3.51	-

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2412MHz_TX



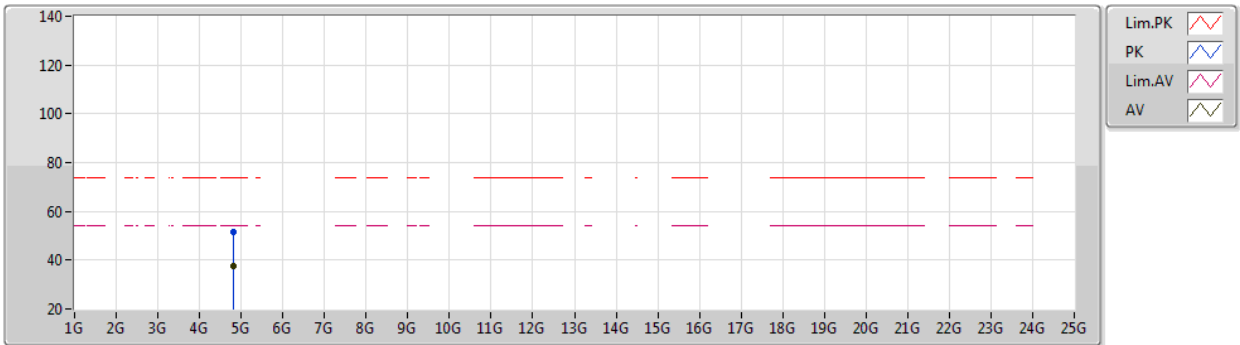
EUT X_2TX
Setting 14.5
03-C-B-2

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	69.62	74.00	-4.38	37.81	3	Horizontal	204	2.09	-	28.32	3.49	-
AV	2.39G	51.33	54.00	-2.67	19.52	3	Horizontal	204	2.09	-	28.32	3.49	-
PK	2.4144G	108.27	Inf	-Inf	76.43	3	Horizontal	204	2.09	-	28.33	3.51	-
AV	2.4142G	98.52	Inf	-Inf	66.68	3	Horizontal	204	2.09	-	28.33	3.51	-

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2412MHz_TX



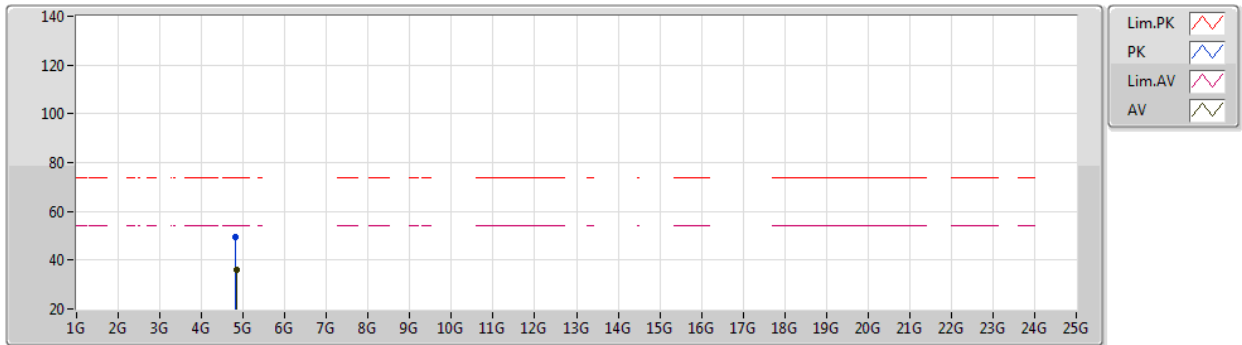
EUT X_2TX
Setting 14.5
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.8233G	51.34	74.00	-22.66	47.01	3	Vertical	185	1.06	-	33.40	6.23	35.30	
AV	4.8239G	37.55	54.00	-16.45	33.21	3	Vertical	185	1.06	-	33.40	6.24	35.30	

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2412MHz_TX



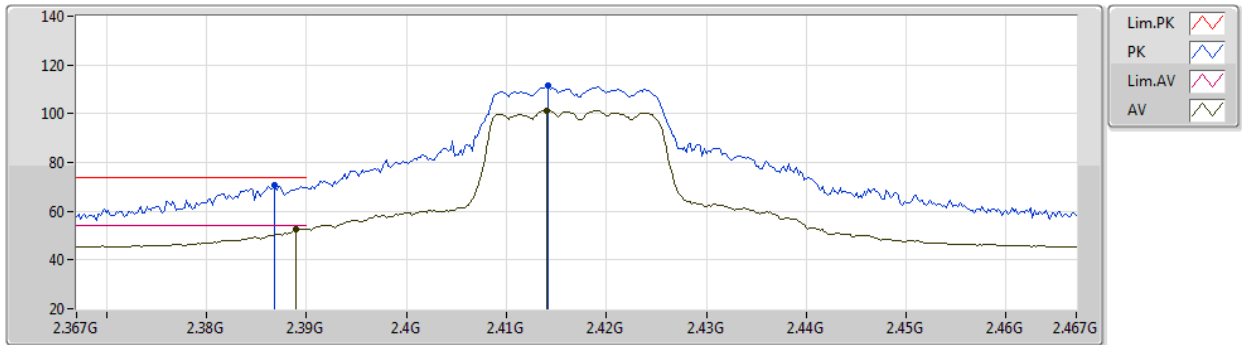
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Setting 14.5
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8114G	49.49	74.00	-24.51	45.16	3	Horizontal	46	1.80	-	33.40	6.22	35.29
AV	4.842G	36.05	54.00	-17.95	31.71	3	Horizontal	46	1.80	-	33.40	6.26	35.32

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2417MHz_TX



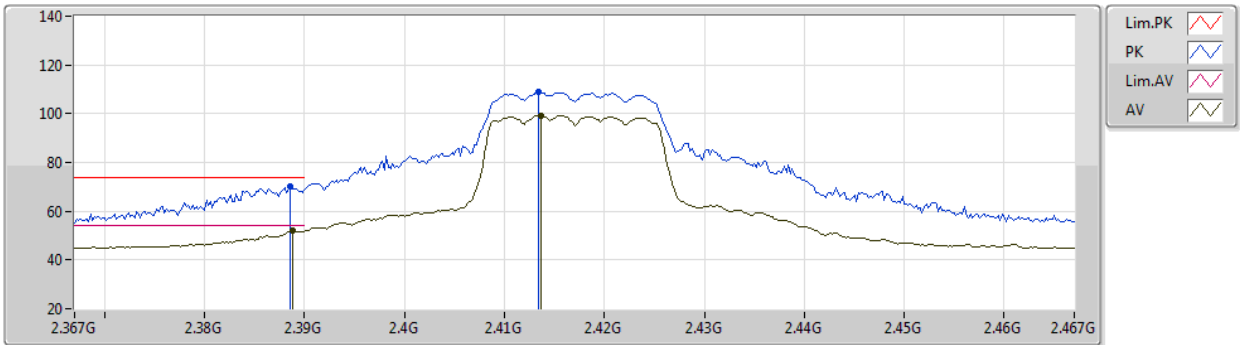
EUT X_2TX
Setting 16
03-C-B-2

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	70.75	74.00	-3.25	38.93	3	Vertical	283	2.54	-	28.33	3.49	-
AV	2.389G	52.62	54.00	-1.38	20.81	3	Vertical	283	2.54	-	28.32	3.49	-
PK	2.4142G	111.41	Inf	-Inf	79.57	3	Vertical	283	2.54	-	28.33	3.51	-
AV	2.414G	101.40	Inf	-Inf	69.56	3	Vertical	283	2.54	-	28.33	3.51	-

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2417MHz_TX



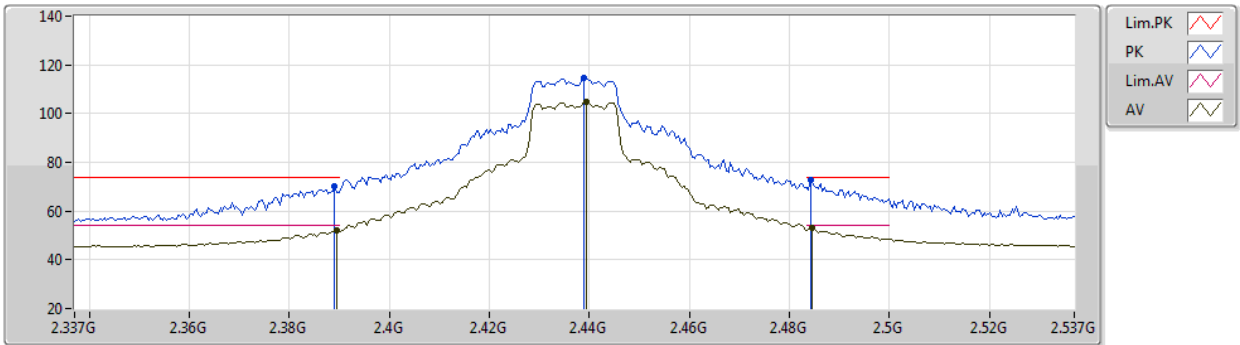
EUT X_2TX
Setting 16
03-C-B-2

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	70.06	74.00	-3.94	38.25	3	Horizontal	102	1.80	-	28.32	3.49	-
AV	2.3888G	52.13	54.00	-1.87	20.32	3	Horizontal	102	1.80	-	28.32	3.49	-
PK	2.4134G	108.97	Inf	-Inf	77.13	3	Horizontal	102	1.80	-	28.33	3.51	-
AV	2.4136G	99.35	Inf	-Inf	67.51	3	Horizontal	102	1.80	-	28.33	3.51	-

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2437MHz_TX



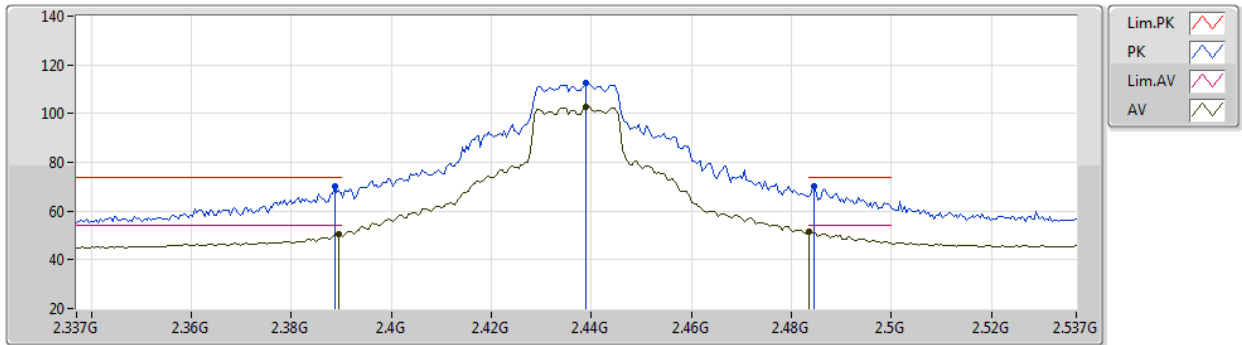
EUT X_2TX
Setting 19.5
03-C-B-2

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	70.01	74.00	-3.99	38.20	3	Vertical	260	1.99	-	28.32	3.49	-
AV	2.3894G	52.29	54.00	-1.71	20.48	3	Vertical	260	1.99	-	28.32	3.49	-
PK	2.439G	114.53	Inf	-Inf	82.61	3	Vertical	260	1.99	-	28.38	3.54	-
AV	2.4394G	104.85	Inf	-Inf	72.93	3	Vertical	260	1.99	-	28.38	3.54	-
PK	2.4842G	72.59	74.00	-1.41	40.40	3	Vertical	260	1.99	-	28.61	3.58	-
AV	2.4846G	52.97	54.00	-1.03	20.78	3	Vertical	260	1.99	-	28.61	3.58	-

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2437MHz_TX



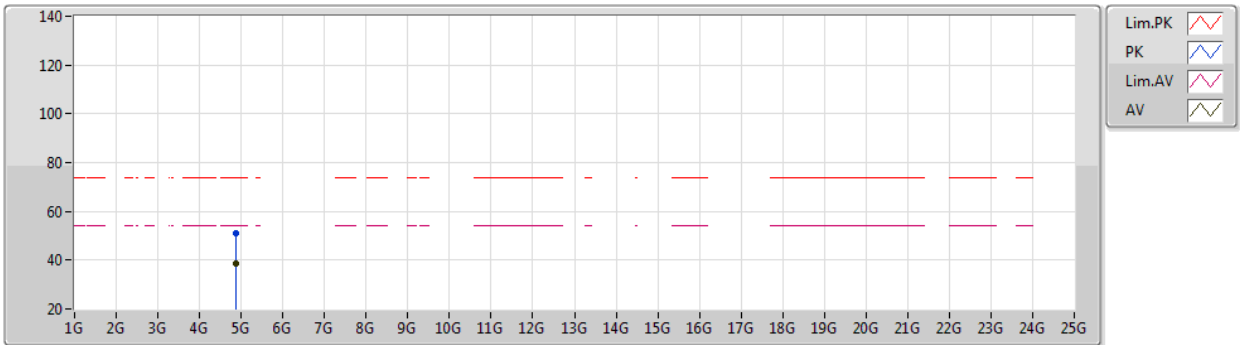
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Setting 19.5
03-C-B-2

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	70.33	74.00	-3.67	38.52	3	Horizontal	204	2.43	-	28.32	3.49	-
AV	2.3894G	50.34	54.00	-3.66	18.53	3	Horizontal	204	2.43	-	28.32	3.49	-
PK	2.439G	112.65	Inf	-Inf	80.73	3	Horizontal	204	2.43	-	28.38	3.54	-
AV	2.439G	102.76	Inf	-Inf	70.84	3	Horizontal	204	2.43	-	28.38	3.54	-
PK	2.4846G	70.15	74.00	-3.85	37.96	3	Horizontal	204	2.43	-	28.61	3.58	-
AV	2.4835G	51.34	54.00	-2.66	19.16	3	Horizontal	204	2.43	-	28.60	3.58	-

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2437MHz_TX



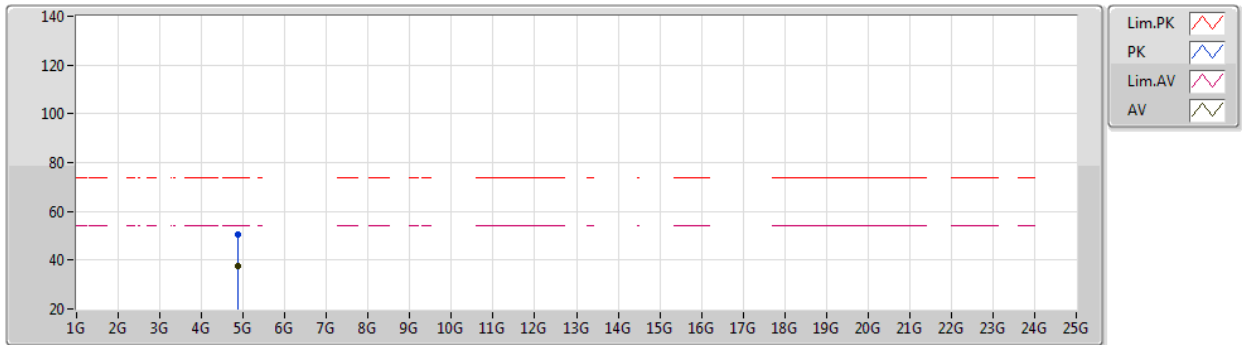
EUT X_2TX
Setting 19.5
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8739G	51.29	74.00	-22.71	46.84	3	Vertical	183	1.17	-	33.50	6.31	35.36
AV	4.8693G	38.38	54.00	-15.62	33.95	3	Vertical	183	1.17	-	33.48	6.30	35.35

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2437MHz_TX



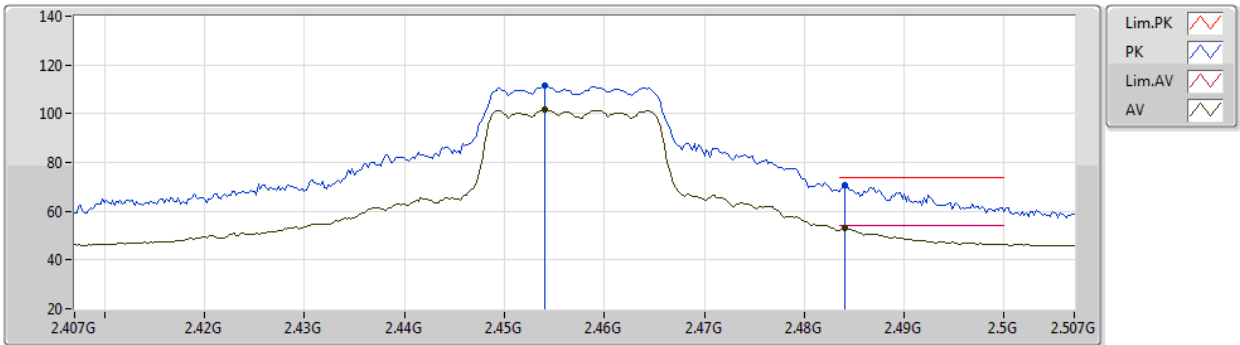
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Setting 19.5
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.8812G	50.59	74.00	-23.41	46.11	3	Horizontal	298	1.97	-	33.52	6.32	35.36	
AV	4.8744G	37.71	54.00	-16.29	33.26	3	Horizontal	298	1.97	-	33.50	6.31	35.36	

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2457MHz_TX



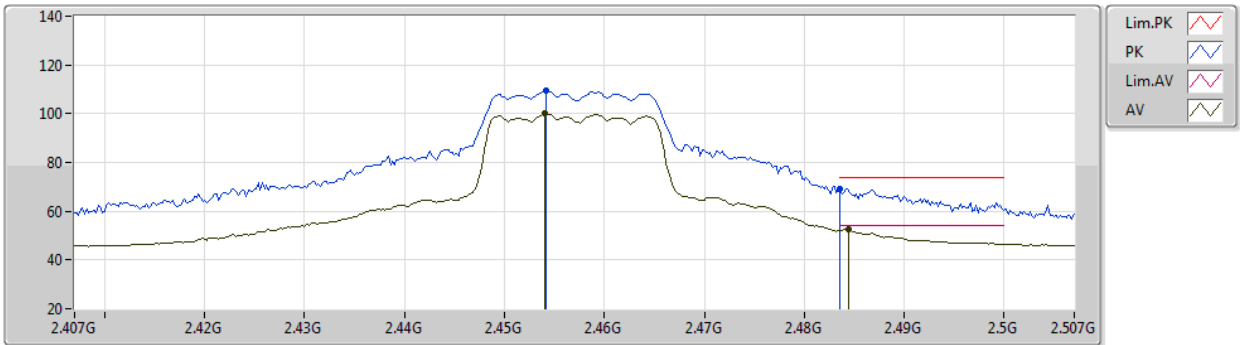
EUT X_2TX
Setting 16.5
03-C-B-2

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	2.454G	111.41	Inf	-Inf	79.44	3	Vertical	281	2.05	-	28.42	3.55	-
AV	2.454G	101.69	Inf	-Inf	69.72	3	Vertical	281	2.05	-	28.42	3.55	-
PK	2.484G	70.47	74.00	-3.53	38.29	3	Vertical	281	2.05	-	28.60	3.58	-
AV	2.484G	52.91	54.00	-1.09	20.73	3	Vertical	281	2.05	-	28.60	3.58	-

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2457MHz_TX



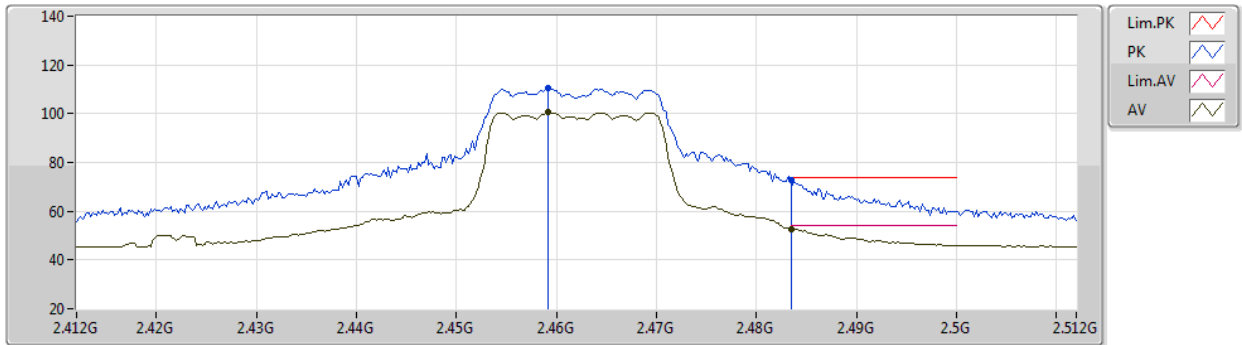
EUT X_2TX
Setting 16.5
03-C-B-2

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	2.4542G	109.30	Inf	-Inf	77.32	3	Horizontal	205	2.61	-	28.43	3.55	-
AV	2.454G	99.95	Inf	-Inf	67.98	3	Horizontal	205	2.61	-	28.42	3.55	-
PK	2.4835G	69.22	74.00	-4.78	37.04	3	Horizontal	205	2.61	-	28.60	3.58	-
AV	2.4844G	52.55	54.00	-1.45	20.36	3	Horizontal	205	2.61	-	28.61	3.58	-

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2462MHz_TX



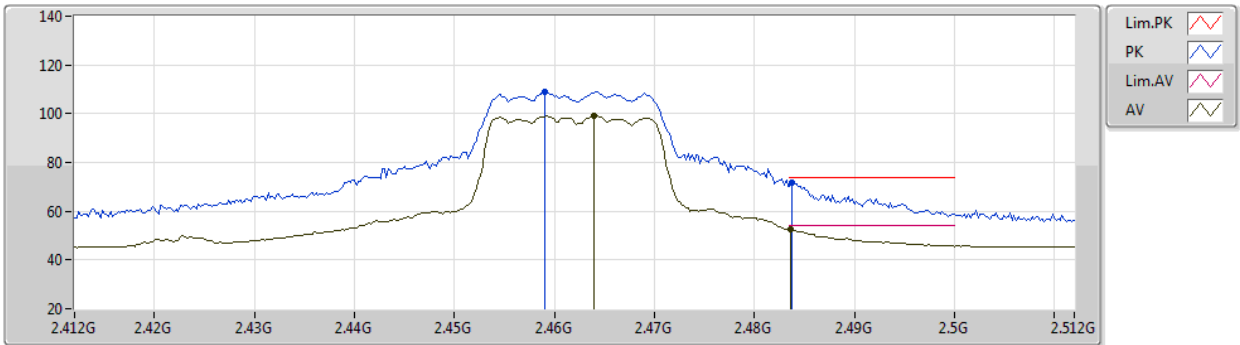
EUT X_2TX
Setting 15
03-C-B-2

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	2.4592G	110.65	Inf	-Inf	78.63	3	Vertical	279	2.13	-	28.46	3.56	-
AV	2.4592G	100.51	Inf	-Inf	68.49	3	Vertical	279	2.13	-	28.46	3.56	-
PK	2.4835G	72.92	74.00	-1.08	40.74	3	Vertical	279	2.13	-	28.60	3.58	-
AV	2.4835G	52.81	54.00	-1.19	20.63	3	Vertical	279	2.13	-	28.60	3.58	-

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2462MHz_TX



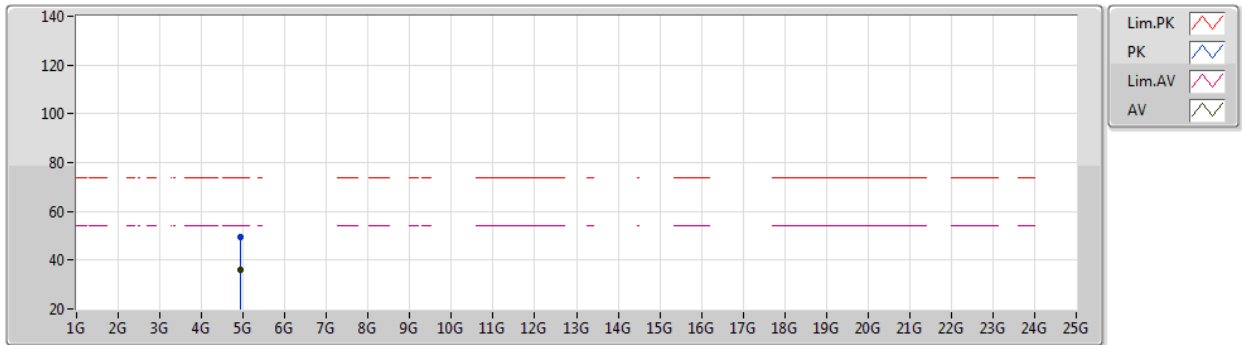
EUT X_2TX
Setting 15
03-C-B-2

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	108.95	Inf	-Inf	76.94	3	Horizontal	206	2.20	-	28.45	3.56	-
AV	2.464G	98.96	Inf	-Inf	66.92	3	Horizontal	206	2.20	-	28.48	3.56	-
PK	2.4838G	71.95	74.00	-2.05	39.77	3	Horizontal	206	2.20	-	28.60	3.58	-
AV	2.4836G	52.44	54.00	-1.56	20.26	3	Horizontal	206	2.20	-	28.60	3.58	-

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2462MHz_TX



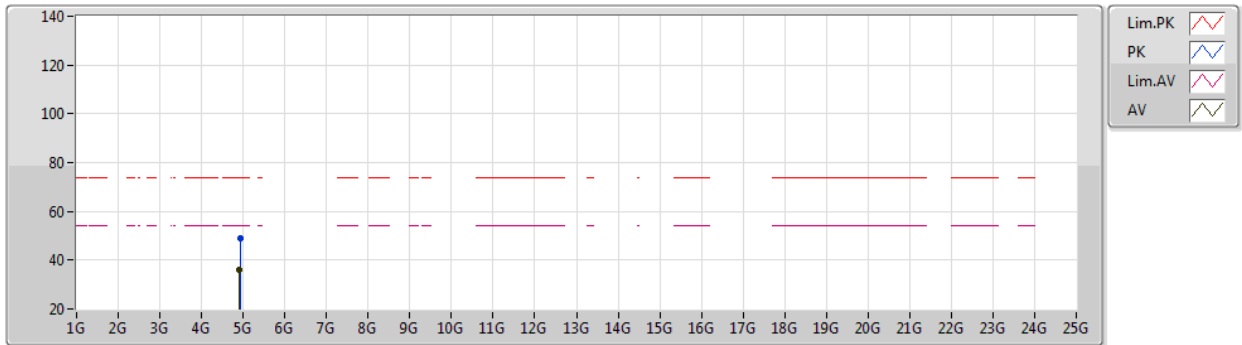
EUT X_2TX
Setting 15
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.9381G	49.59	74.00	-24.41	44.92	3	Vertical	305	1.80	-	33.68	6.41	35.42	
AV	4.9361G	36.23	54.00	-17.77	31.58	3	Vertical	305	1.80	-	33.67	6.40	35.42	

802.11g_Nss1,(6Mbps)_2TX

28/05/2021

2462MHz_TX

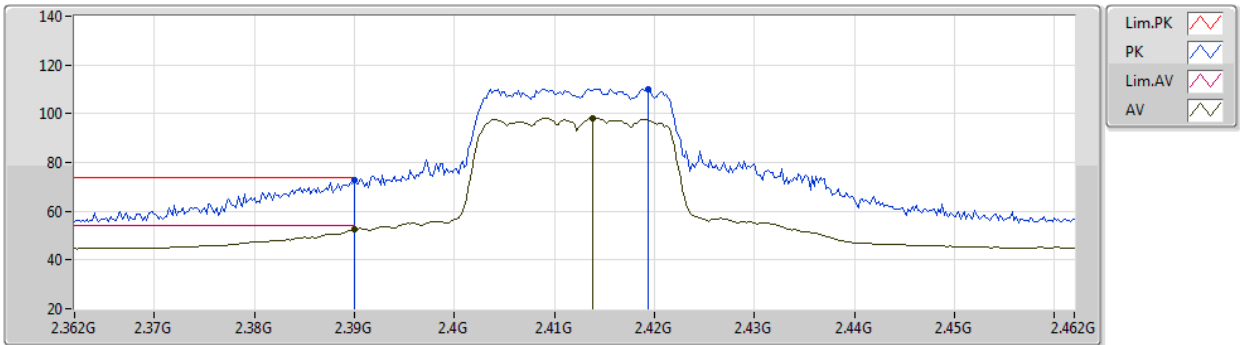

EUT X_2TX
Setting 15
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9381G	49.20	74.00	-24.80	44.53	3	Horizontal	76	3.00	-	33.68	6.41	35.42
AV	4.902G	36.25	54.00	-17.75	31.69	3	Horizontal	76	3.00	-	33.60	6.35	35.39

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2412MHz_TX



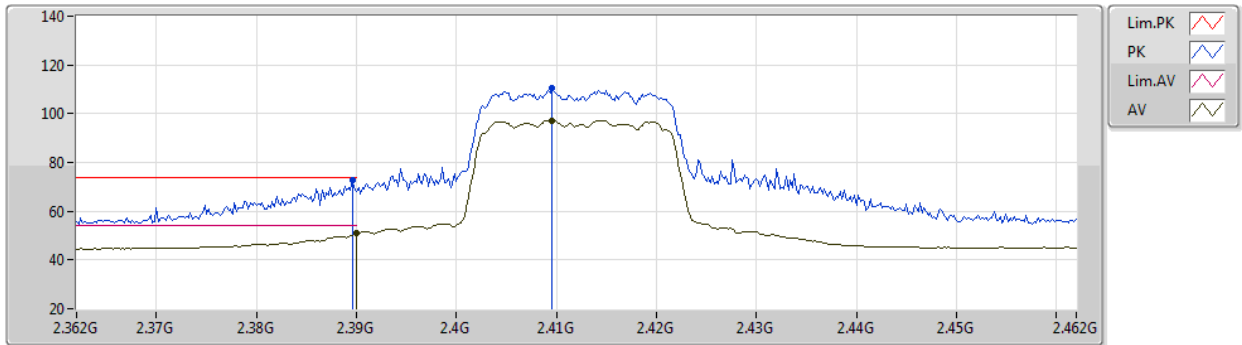
EUT X_2TX
Setting 13.5
03-C-B-2

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	72.69	74.00	-1.31	40.88	3	Vertical	289	1.80	-	28.32	3.49	-
AV	2.39G	52.66	54.00	-1.34	20.85	3	Vertical	289	1.80	-	28.32	3.49	-
PK	2.4194G	110.19	Inf	-Inf	78.33	3	Vertical	289	1.80	-	28.34	3.52	-
AV	2.4138G	98.31	Inf	-Inf	66.47	3	Vertical	289	1.80	-	28.33	3.51	-

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2412MHz_TX



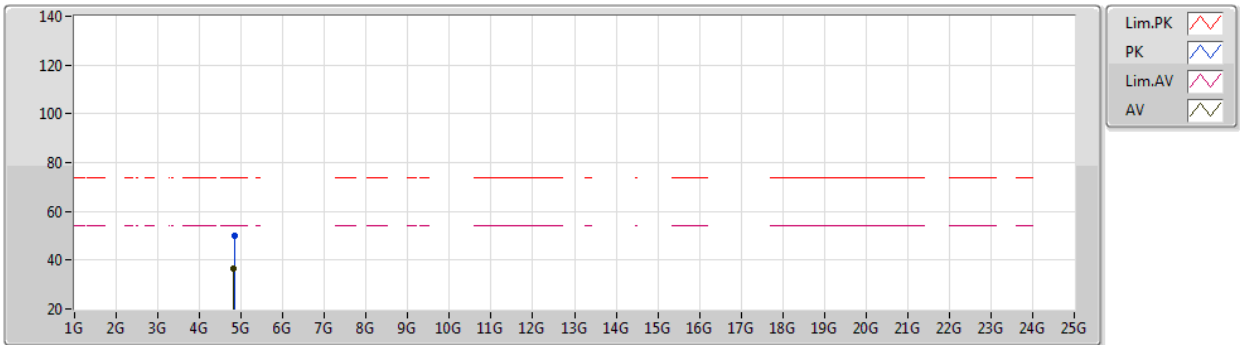
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Setting 13.5
03-C-B-2

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	2.3896G	72.92	74.00	-1.08	41.11	3	Horizontal	208	2.55	-	28.32	3.49	-
AV	2.39G	51.00	54.00	-3.00	19.19	3	Horizontal	208	2.55	-	28.32	3.49	-
PK	2.4096G	110.32	Inf	-Inf	78.49	3	Horizontal	208	2.55	-	28.32	3.51	-
AV	2.4096G	97.32	Inf	-Inf	65.49	3	Horizontal	208	2.55	-	28.32	3.51	-

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2412MHz_TX



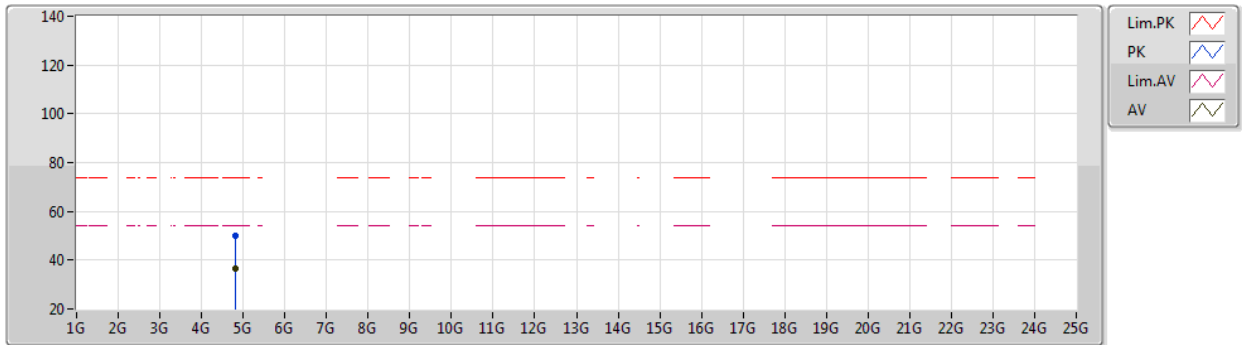
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Setting 13.5
03-C-B-2

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	4.8319G	50.02	74.00	-23.98	45.68	3	Vertical	182	1.00	-	33.40	6.25	35.31
AV	4.8242G	36.74	54.00	-17.26	32.40	3	Vertical	182	1.00	-	33.40	6.24	35.30

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2412MHz_TX



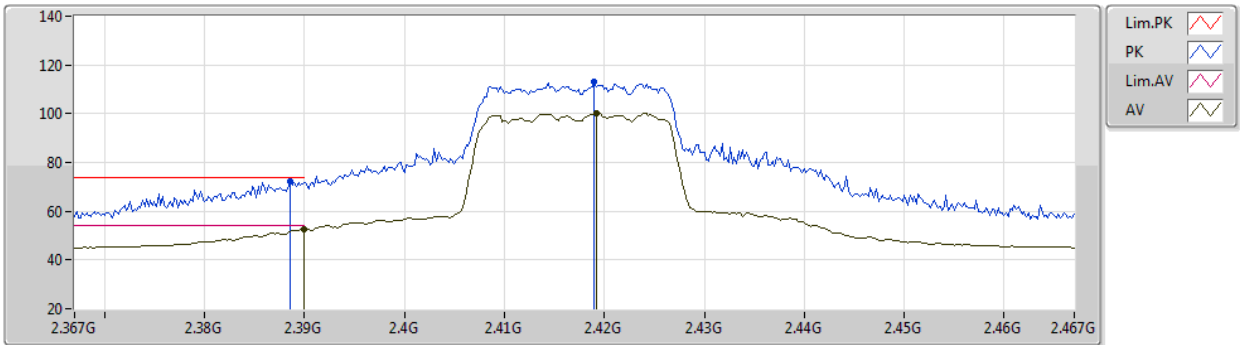
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Setting 13.5
03-C-B-2

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	4.8174G	49.95	74.00	-24.05	45.62	3	Horizontal	316	1.00	-	33.40	6.23	35.30
AV	4.8239G	36.30	54.00	-17.70	31.96	3	Horizontal	316	1.00	-	33.40	6.24	35.30

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2417MHz_TX



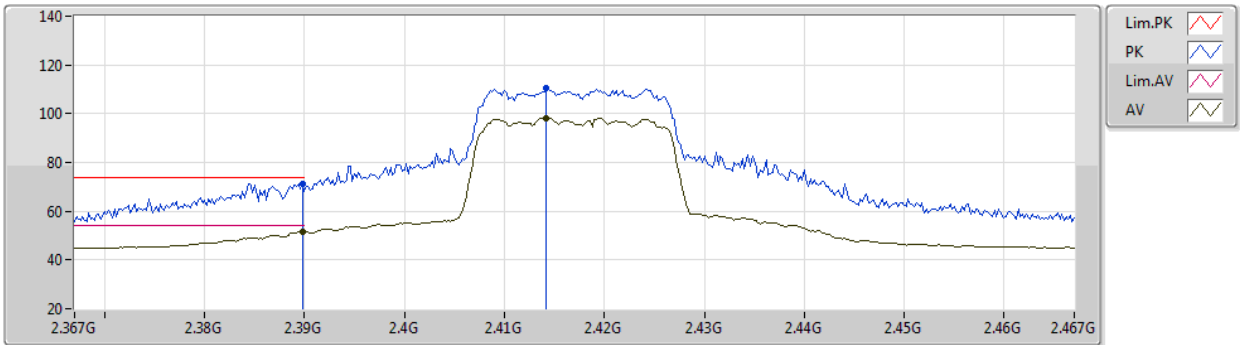
EUT X_2TX
Setting 15
03-C-B-2

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	72.09	74.00	-1.91	40.28	3	Vertical	236	1.00	-	28.32	3.49	-
AV	2.39G	52.74	54.00	-1.26	20.93	3	Vertical	236	1.00	-	28.32	3.49	-
PK	2.419G	113.05	Inf	-Inf	81.19	3	Vertical	236	1.00	-	28.34	3.52	-
AV	2.4192G	100.27	Inf	-Inf	68.41	3	Vertical	236	1.00	-	28.34	3.52	-

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2417MHz_TX



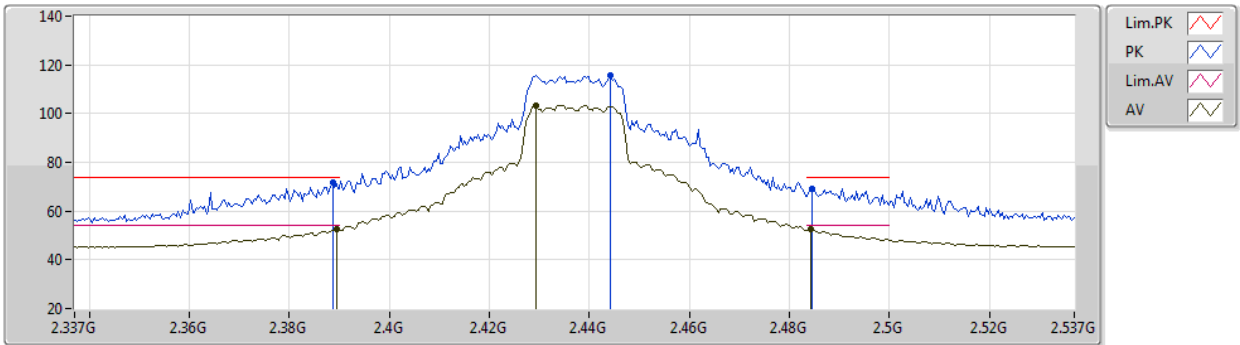
EUT X_2TX
Setting 15
03-C-B-2

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	71.27	74.00	-2.73	39.46	3	Horizontal	208	2.12	-	28.32	3.49	-
AV	2.3898G	51.75	54.00	-2.25	19.94	3	Horizontal	208	2.12	-	28.32	3.49	-
PK	2.4142G	110.46	Inf	-Inf	78.62	3	Horizontal	208	2.12	-	28.33	3.51	-
AV	2.4142G	98.35	Inf	-Inf	66.51	3	Horizontal	208	2.12	-	28.33	3.51	-

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2437MHz_TX



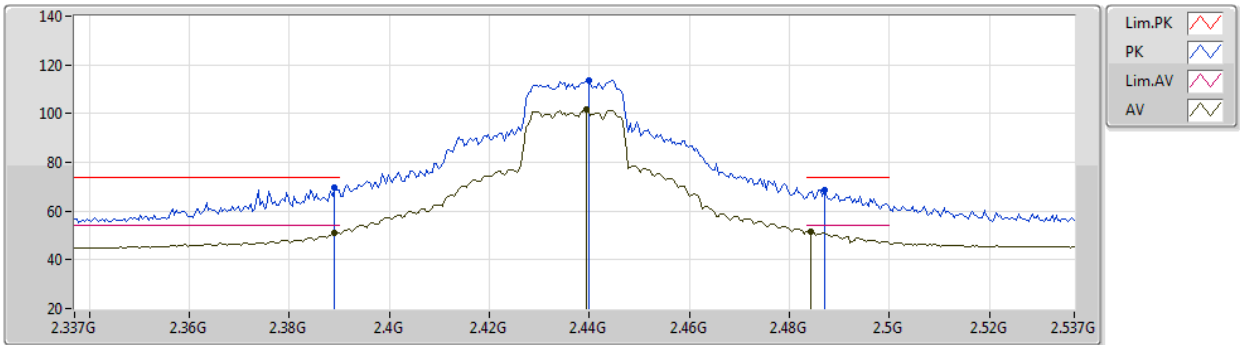
EUT X_2TX
Setting 18.5
03-C-B-2

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	71.51	74.00	-2.49	39.70	3	Vertical	284	1.75	-	28.32	3.49	-
AV	2.3894G	52.82	54.00	-1.18	21.01	3	Vertical	284	1.75	-	28.32	3.49	-
PK	2.4442G	115.73	Inf	-Inf	83.80	3	Vertical	284	1.75	-	28.39	3.54	-
AV	2.4294G	103.46	Inf	-Inf	71.57	3	Vertical	284	1.75	-	28.36	3.53	-
PK	2.4846G	69.31	74.00	-4.69	37.12	3	Vertical	284	1.75	-	28.61	3.58	-
AV	2.4842G	52.43	54.00	-1.57	20.24	3	Vertical	284	1.75	-	28.61	3.58	-

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2437MHz_TX



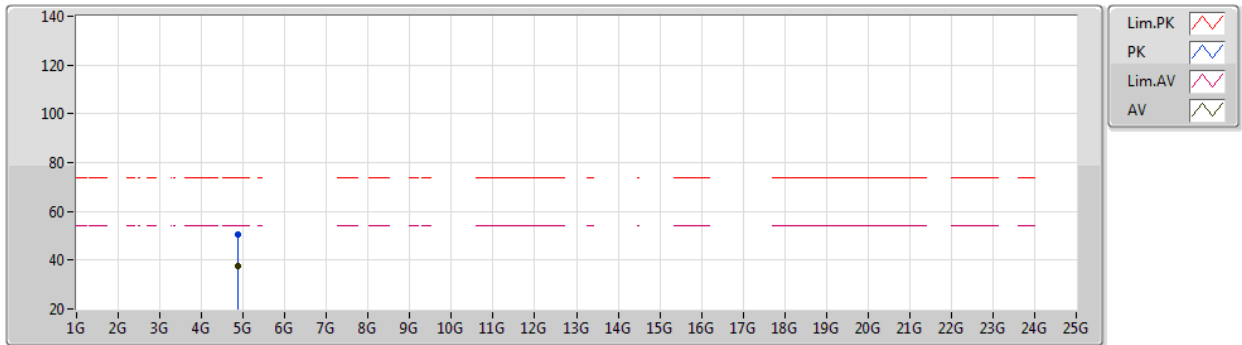
EUT X_2TX
Setting 18.5
03-C-B-2

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	69.83	74.00	-4.17	38.02	3	Horizontal	205	2.43	-	28.32	3.49	-
AV	2.389G	51.21	54.00	-2.79	19.40	3	Horizontal	205	2.43	-	28.32	3.49	-
PK	2.4398G	113.78	Inf	-Inf	81.86	3	Horizontal	205	2.43	-	28.38	3.54	-
AV	2.4394G	101.65	Inf	-Inf	69.73	3	Horizontal	205	2.43	-	28.38	3.54	-
PK	2.487G	68.77	74.00	-5.23	36.56	3	Horizontal	205	2.43	-	28.62	3.59	-
AV	2.4842G	51.76	54.00	-2.24	19.57	3	Horizontal	205	2.43	-	28.61	3.58	-

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2437MHz_TX



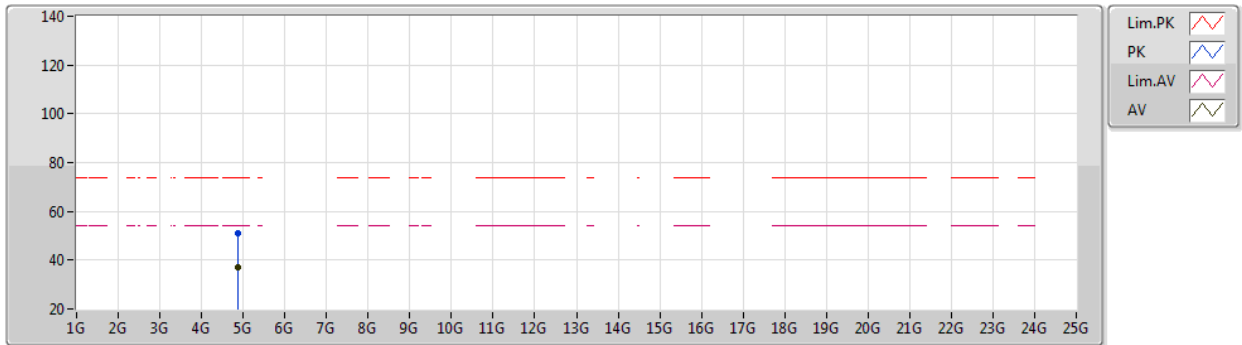
EUT X_2TX
Setting 18.5
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.8684G	50.74	74.00	-23.26	46.32	3	Vertical	177	1.64	-	33.47	6.30	35.35	
AV	4.8696G	37.41	54.00	-16.59	32.98	3	Vertical	177	1.64	-	33.48	6.30	35.35	

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2437MHz_TX



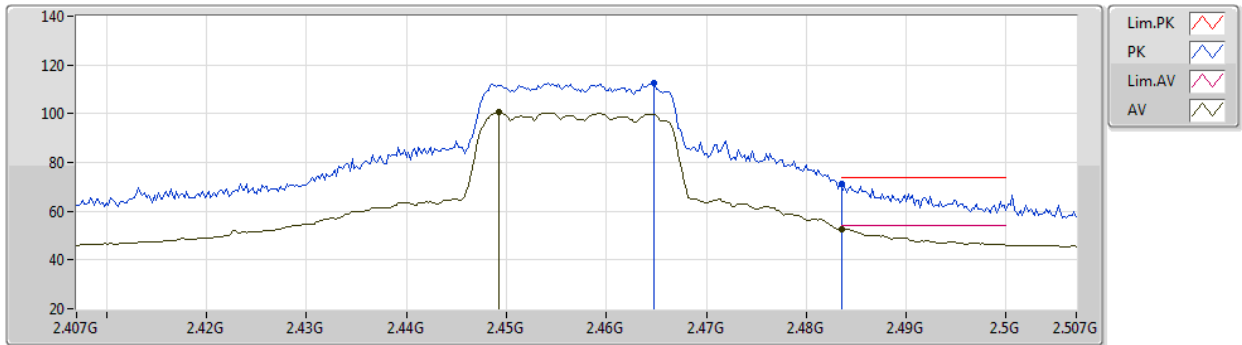
EUT X_2TX
Setting 18.5
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.8851G	51.02	74.00	-22.98	46.52	3	Horizontal	298	2.19	-	33.54	6.33	35.37	
AV	4.8757G	37.16	54.00	-16.84	32.71	3	Horizontal	298	2.19	-	33.50	6.31	35.36	

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2457MHz_TX



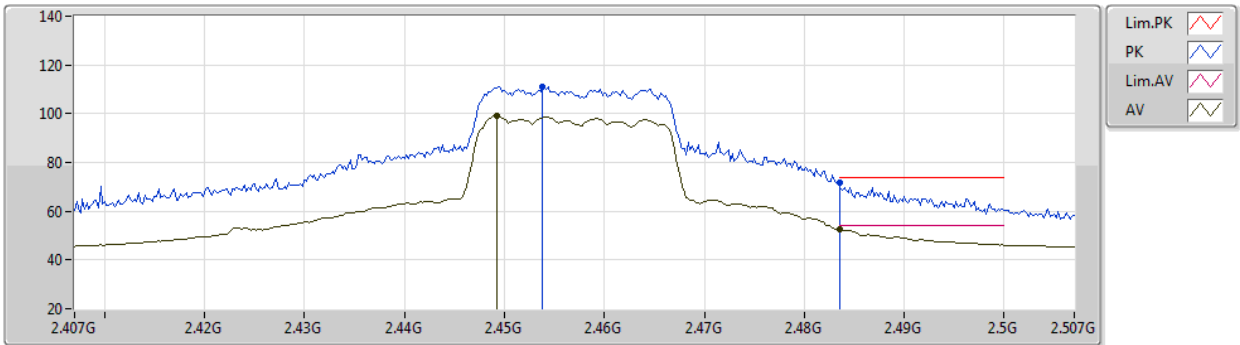
EUT X_2TX
Setting 15.5
03-C-B-2

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	112.66	Inf	-Inf	80.61	3	Vertical	283	2.02	-	28.49	3.56	-
AV	2.4492G	100.45	Inf	-Inf	68.50	3	Vertical	283	2.02	-	28.40	3.55	-
PK	2.4835G	71.05	74.00	-2.95	38.87	3	Vertical	283	2.02	-	28.60	3.58	-
AV	2.4835G	52.50	54.00	-1.50	20.32	3	Vertical	283	2.02	-	28.60	3.58	-

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2457MHz_TX



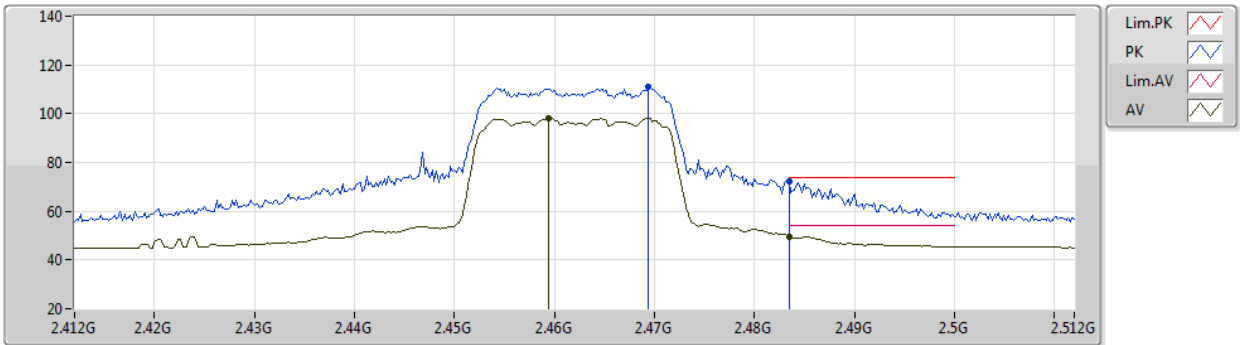
EUT X_2TX
Setting 15.5
03-C-B-2

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	2.4538G	111.26	Inf	-Inf	79.29	3	Horizontal	205	2.45	-	28.42	3.55	-
AV	2.4492G	99.14	Inf	-Inf	67.19	3	Horizontal	205	2.45	-	28.40	3.55	-
PK	2.4835G	71.55	74.00	-2.45	39.37	3	Horizontal	205	2.45	-	28.60	3.58	-
AV	2.4835G	52.62	54.00	-1.38	20.44	3	Horizontal	205	2.45	-	28.60	3.58	-

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2462MHz_TX



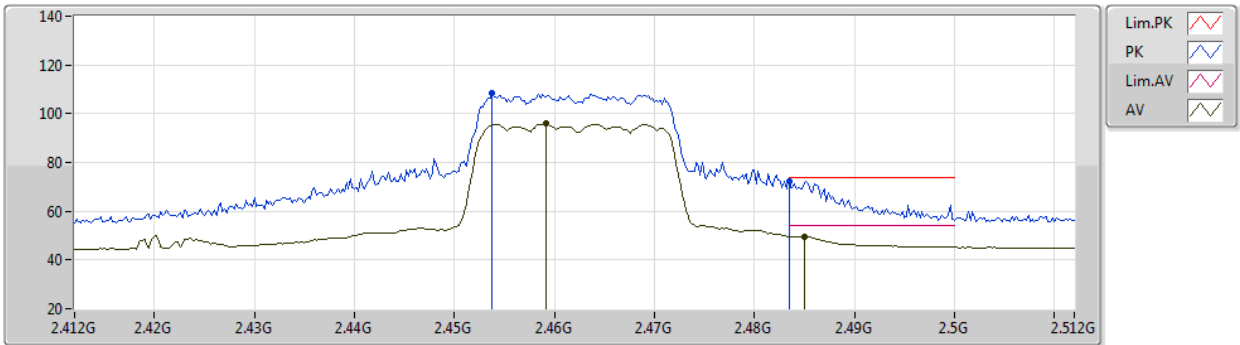
EUT X_2TX
Setting 13
03-C-B-2

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	2.4694G	110.94	Inf	-Inf	78.85	3	Vertical	269	2.20	-	28.52	3.57	-
AV	2.4594G	98.09	Inf	-Inf	66.07	3	Vertical	269	2.20	-	28.46	3.56	-
PK	2.4835G	72.29	74.00	-1.71	40.11	3	Vertical	269	2.20	-	28.60	3.58	-
AV	2.4835G	49.74	54.00	-4.26	17.56	3	Vertical	269	2.20	-	28.60	3.58	-

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2462MHz_TX



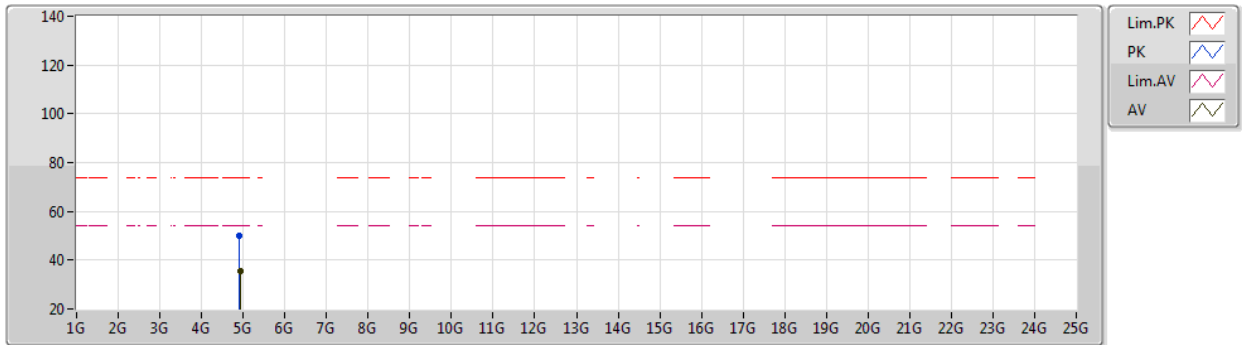
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Setting 13
03-C-B-2

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	2.4538G	108.23	Inf	-Inf	76.26	3	Horizontal	202	2.65	-	28.42	3.55	-
AV	2.4592G	95.81	Inf	-Inf	63.79	3	Horizontal	202	2.65	-	28.46	3.56	-
PK	2.4835G	72.43	74.00	-1.57	40.25	3	Horizontal	202	2.65	-	28.60	3.58	-
AV	2.485G	49.66	54.00	-4.34	17.46	3	Horizontal	202	2.65	-	28.61	3.59	-

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2462MHz_TX



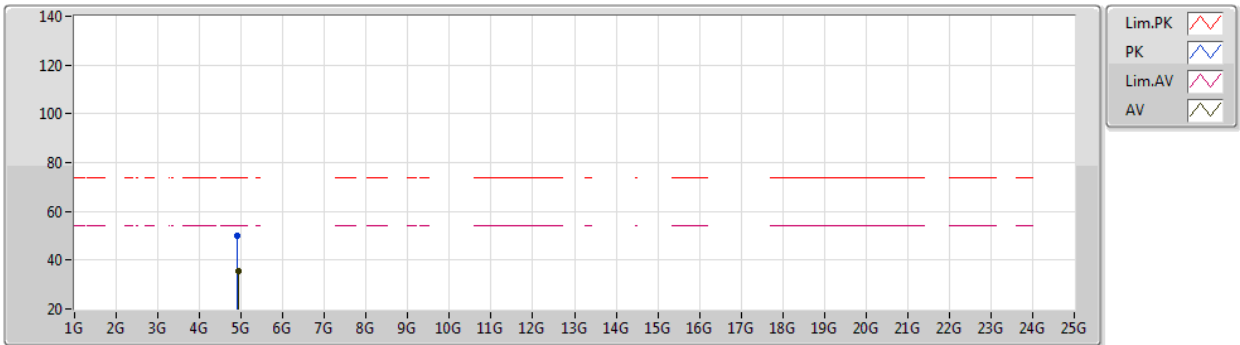
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Setting 13
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.91668G	49.76	74.00	-24.24	45.15	3	Vertical	6	2.31	-	33.63	6.38	35.40	
AV	4.93376G	35.46	54.00	-18.54	30.81	3	Vertical	6	2.31	-	33.67	6.40	35.42	

802.11ax HEW20_Nss1,(MCS0)_2TX

28/05/2021

2462MHz_TX



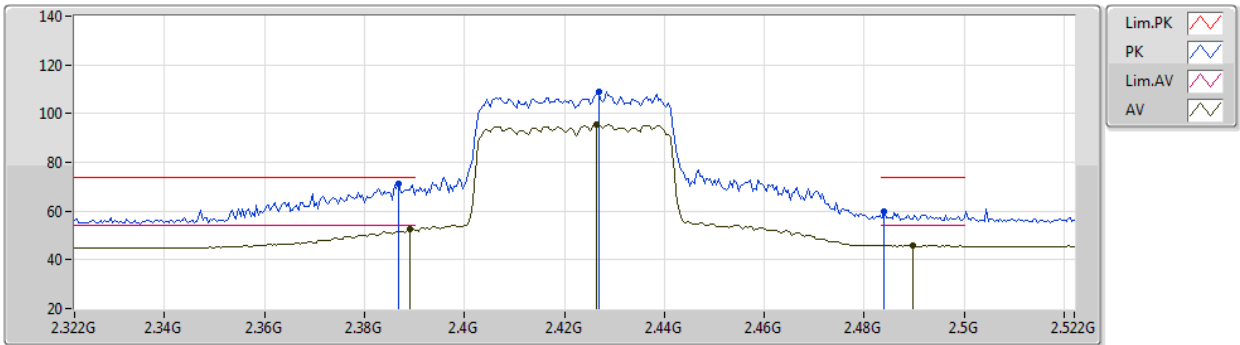
EUT X_2TX
Setting 13
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91928G	49.81	74.00	-24.19	45.19	3	Horizontal	188	1.80	-	33.64	6.38	35.40
AV	4.929G	35.38	54.00	-18.62	30.74	3	Horizontal	188	1.80	-	33.66	6.39	35.41

802.11ax HEW40_Nss1,(MCS0)_2TX

28/05/2021

2422MHz_TX



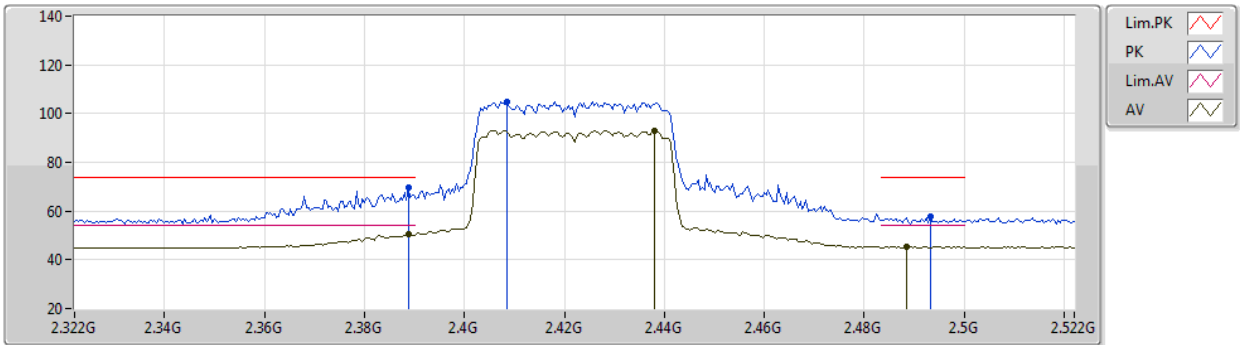
EUT X_2TX
Setting 13
03-C-B-2

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	71.20	74.00	-2.80	39.38	3	Vertical	282	2.27	-	28.33	3.49	-
AV	2.3892G	52.60	54.00	-1.40	20.79	3	Vertical	282	2.27	-	28.32	3.49	-
PK	2.4268G	108.75	Inf	-Inf	76.87	3	Vertical	282	2.27	-	28.35	3.53	-
AV	2.4264G	95.57	Inf	-Inf	63.69	3	Vertical	282	2.27	-	28.35	3.53	-
PK	2.484G	59.86	74.00	-14.14	27.68	3	Vertical	282	2.27	-	28.60	3.58	-
AV	2.4896G	46.07	54.00	-7.93	13.84	3	Vertical	282	2.27	-	28.64	3.59	-

802.11ax HEW40_Nss1,(MCS0)_2TX

28/05/2021

2422MHz_TX



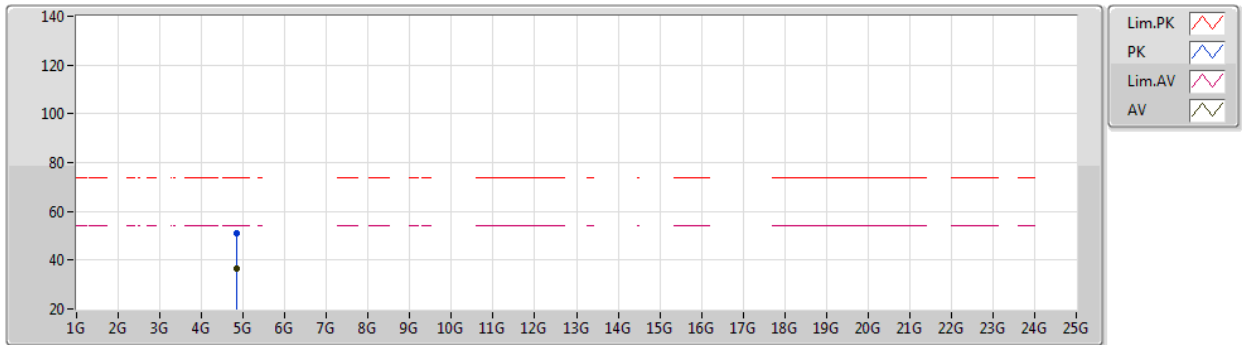
EUT X_2TX
Setting 13
03-C-B-2

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	69.49	74.00	-4.51	37.68	3	Horizontal	100	1.74	-	28.32	3.49	-
AV	2.3888G	50.48	54.00	-3.52	18.67	3	Horizontal	100	1.74	-	28.32	3.49	-
PK	2.4084G	105.02	Inf	-Inf	73.19	3	Horizontal	100	1.74	-	28.32	3.51	-
AV	2.438G	93.04	Inf	-Inf	61.12	3	Horizontal	100	1.74	-	28.38	3.54	-
PK	2.4932G	57.90	74.00	-16.10	25.65	3	Horizontal	100	1.74	-	28.66	3.59	-
AV	2.4884G	45.21	54.00	-8.79	12.99	3	Horizontal	100	1.74	-	28.63	3.59	-

802.11ax HEW40_Nss1,(MCS0)_2TX

28/05/2021

2422MHz_TX



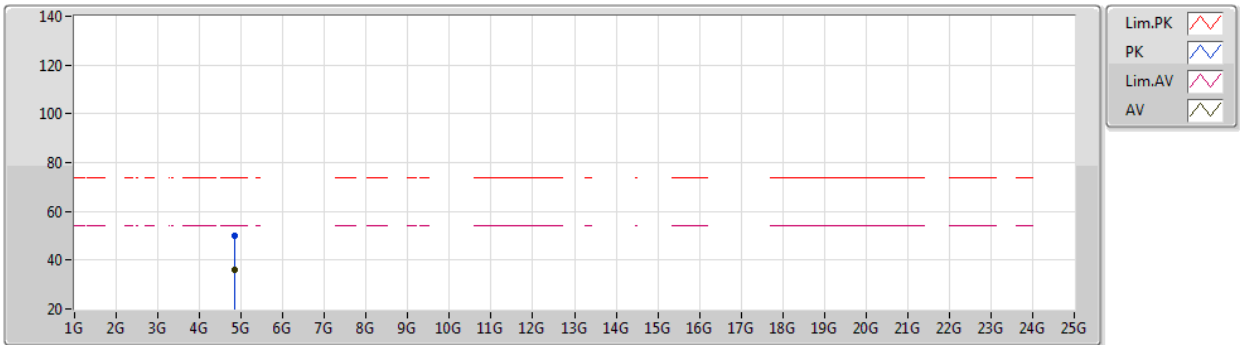
EUT Y_2TX
Setting 13
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.85232G	50.87	74.00	-23.13	46.51	3	Vertical	11	2.97	-	33.41	6.28	35.33
AV	4.84208G	36.32	54.00	-17.68	31.98	3	Vertical	11	2.97	-	33.40	6.26	35.32

802.11ax HEW40_Nss1,(MCS0)_2TX

28/05/2021

2422MHz_TX



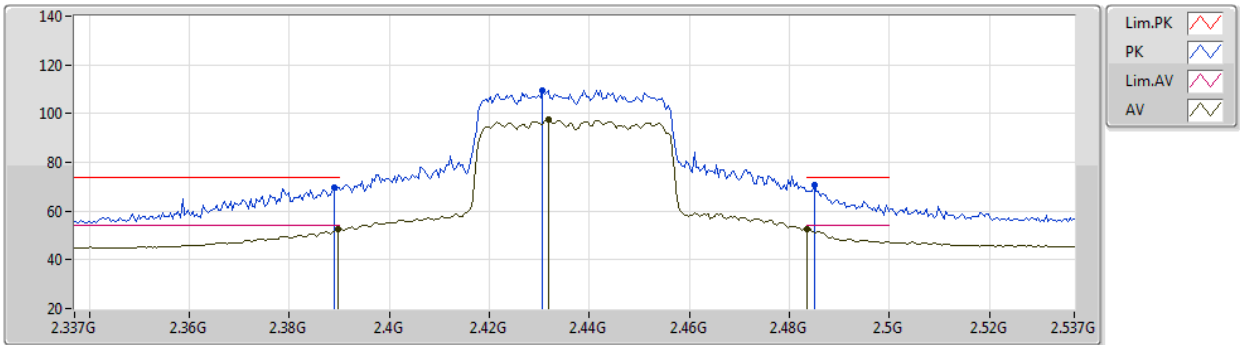
EUT Y_2TX
Setting 13
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84696G	49.81	74.00	-24.19	45.47	3	Horizontal	349	1.80	-	33.40	6.27	35.33
AV	4.84572G	36.22	54.00	-17.78	31.88	3	Horizontal	349	1.80	-	33.40	6.27	35.33

802.11ax HEW40_Nss1,(MCS0)_2TX

28/05/2021

2437MHz_TX



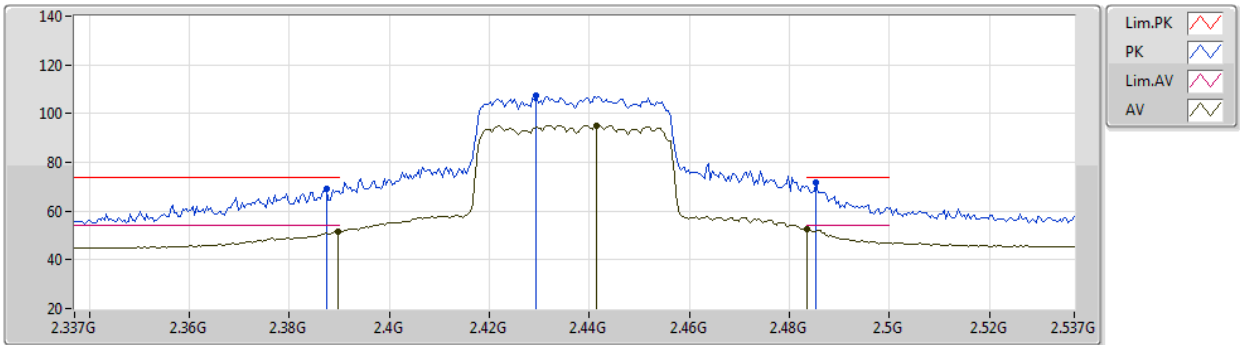
EUT X_2TX
Setting 14.5
03-C-B-2

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	69.81	74.00	-4.19	38.00	3	Vertical	289	1.70	-	28.32	3.49	-
AV	2.3898G	52.58	54.00	-1.42	20.77	3	Vertical	289	1.70	-	28.32	3.49	-
PK	2.4306G	109.62	Inf	-Inf	77.73	3	Vertical	289	1.70	-	28.36	3.53	-
AV	2.4318G	97.34	Inf	-Inf	65.45	3	Vertical	289	1.70	-	28.36	3.53	-
PK	2.485G	70.48	74.00	-3.52	38.28	3	Vertical	289	1.70	-	28.61	3.59	-
AV	2.4835G	52.66	54.00	-1.34	20.48	3	Vertical	289	1.70	-	28.60	3.58	-

802.11ax HEW40_Nss1,(MCS0)_2TX

28/05/2021

2437MHz_TX



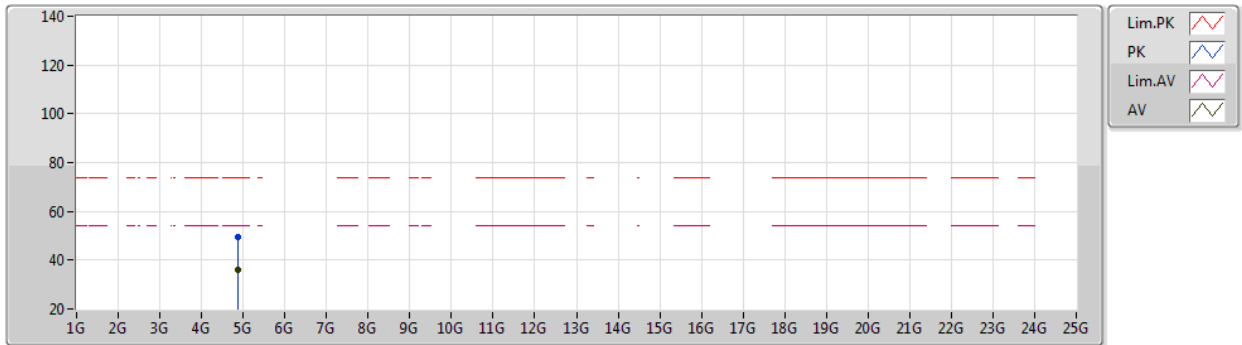
EUT X_2TX
Setting 14.5
03-C-B-2

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	2.3874G	69.08	74.00	-4.92	37.26	3	Horizontal	205	2.52	-	28.33	3.49	-
AV	2.3898G	51.61	54.00	-2.39	19.80	3	Horizontal	205	2.52	-	28.32	3.49	-
PK	2.4294G	107.34	Inf	-Inf	75.45	3	Horizontal	205	2.52	-	28.36	3.53	-
AV	2.4414G	95.19	Inf	-Inf	63.27	3	Horizontal	205	2.52	-	28.38	3.54	-
PK	2.4854G	71.95	74.00	-2.05	39.75	3	Horizontal	205	2.52	-	28.61	3.59	-
AV	2.4835G	52.66	54.00	-1.34	20.48	3	Horizontal	205	2.52	-	28.60	3.58	-

802.11ax HEW40_Nss1,(MCS0)_2TX

28/05/2021

2437MHz_TX



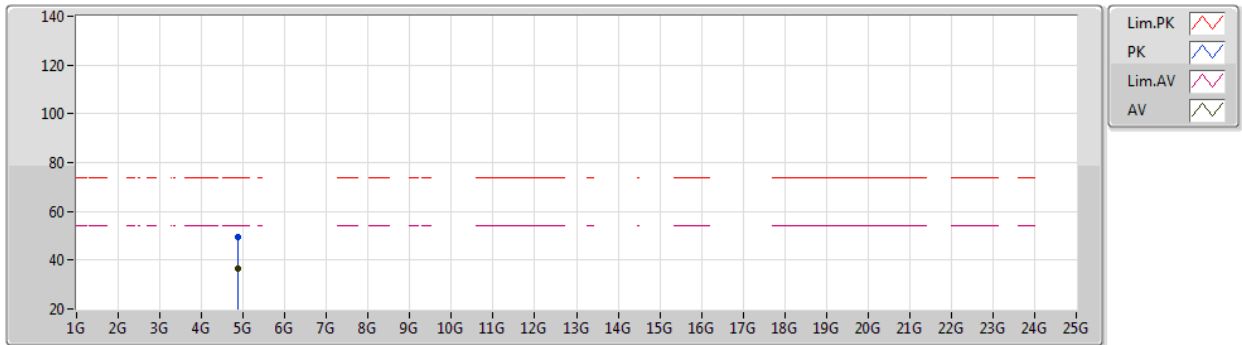
EUT X_2TX
Setting 14.5
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87774G	49.59	74.00	-24.41	45.12	3	Vertical	360	1.91	-	33.51	6.32	35.36
AV	4.87698G	36.25	54.00	-17.75	31.78	3	Vertical	360	1.91	-	33.51	6.32	35.36

802.11ax HEW40_Nss1,(MCS0)_2TX

28/05/2021

2437MHz_TX



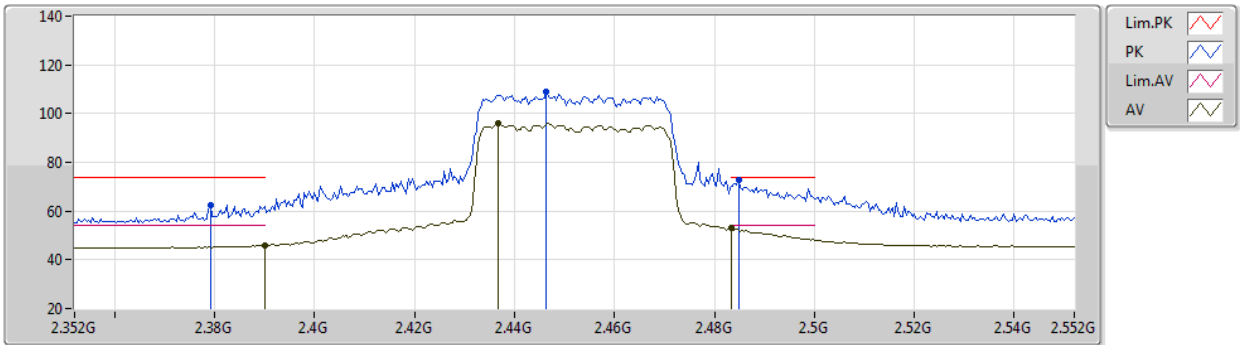
EUT X_2TX
Setting 14.5
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.879G	49.71	74.00	-24.29	45.23	3	Horizontal	199	2.99	-	33.52	6.32	35.36
AV	4.87658G	36.37	54.00	-17.63	31.91	3	Horizontal	199	2.99	-	33.51	6.31	35.36

802.11ax HEW40_Nss1,(MCS0)_2TX

28/05/2021

2452MHz_TX



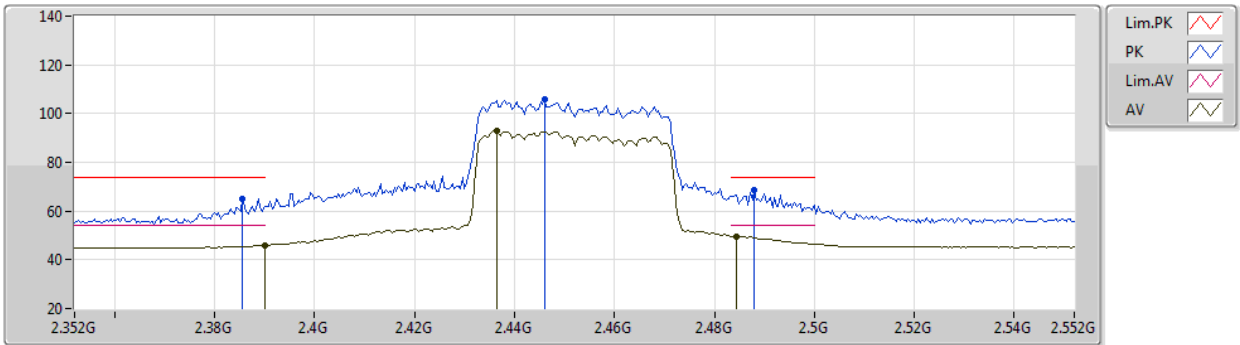
EUT X_2TX
Setting 13
03-C-B-2

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	2.3792G	62.64	74.00	-11.36	30.82	3	Vertical	282	1.76	-	28.34	3.48	-
AV	2.39G	45.94	54.00	-8.06	14.13	3	Vertical	282	1.76	-	28.32	3.49	-
PK	2.4464G	109.18	Inf	-Inf	77.24	3	Vertical	282	1.76	-	28.39	3.55	-
AV	2.4368G	95.90	Inf	-Inf	63.99	3	Vertical	282	1.76	-	28.37	3.54	-
PK	2.4848G	72.81	74.00	-1.19	40.62	3	Vertical	282	1.76	-	28.61	3.58	-
AV	2.4835G	52.97	54.00	-1.03	20.79	3	Vertical	282	1.76	-	28.60	3.58	-

802.11ax HEW40_Nss1,(MCS0)_2TX

28/05/2021

2452MHz_TX



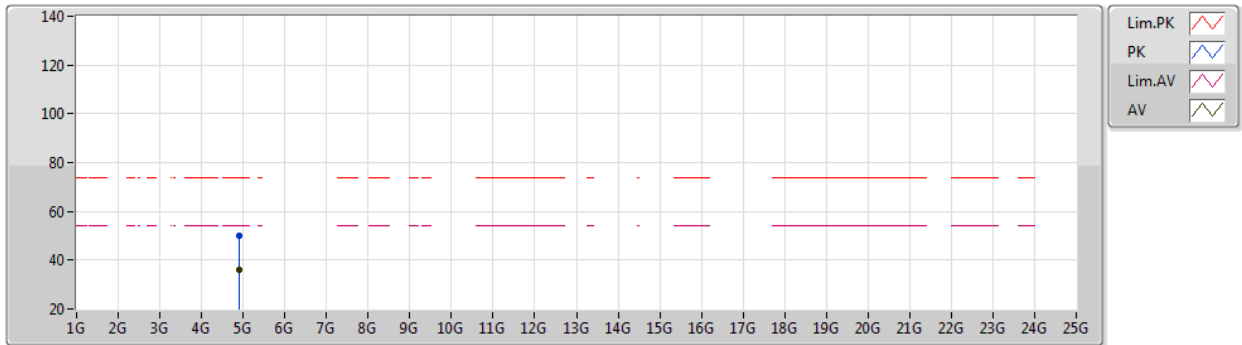
EUT X_2TX
Setting 13
03-C-B-2

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	65.21	74.00	-8.79	33.39	3	Horizontal	103	1.79	-	28.33	3.49	-
AV	2.39G	46.09	54.00	-7.91	14.28	3	Horizontal	103	1.79	-	28.32	3.49	-
PK	2.446G	105.65	Inf	-Inf	73.71	3	Horizontal	103	1.79	-	28.39	3.55	-
AV	2.4364G	92.82	Inf	-Inf	60.91	3	Horizontal	103	1.79	-	28.37	3.54	-
PK	2.488G	68.68	74.00	-5.32	36.46	3	Horizontal	103	1.79	-	28.63	3.59	-
AV	2.4844G	49.74	54.00	-4.26	17.55	3	Horizontal	103	1.79	-	28.61	3.58	-

802.11ax HEW40_Nss1,(MCS0)_2TX

28/05/2021

2452MHz_TX



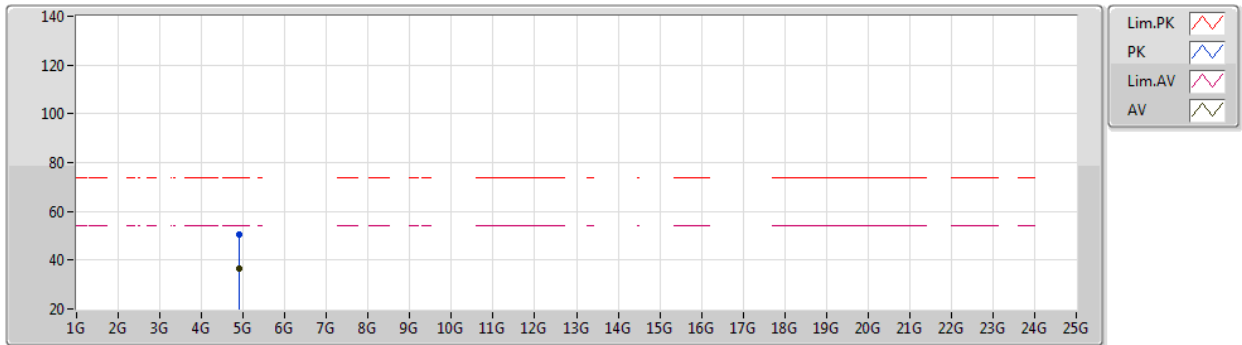
EUT X_2TX
Setting 13
03-C-J-7

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.90313G	49.93	74.00	-24.07	45.36	3	Vertical	71	2.98	-	33.61	6.35	35.39	
AV	4.90349G	36.26	54.00	-17.74	31.68	3	Vertical	71	2.98	-	33.61	6.36	35.39	

802.11ax HEW40_Nss1,(MCS0)_2TX

28/05/2021

2452MHz_TX


EUT X_2TX
Setting 13
03-C-J-7

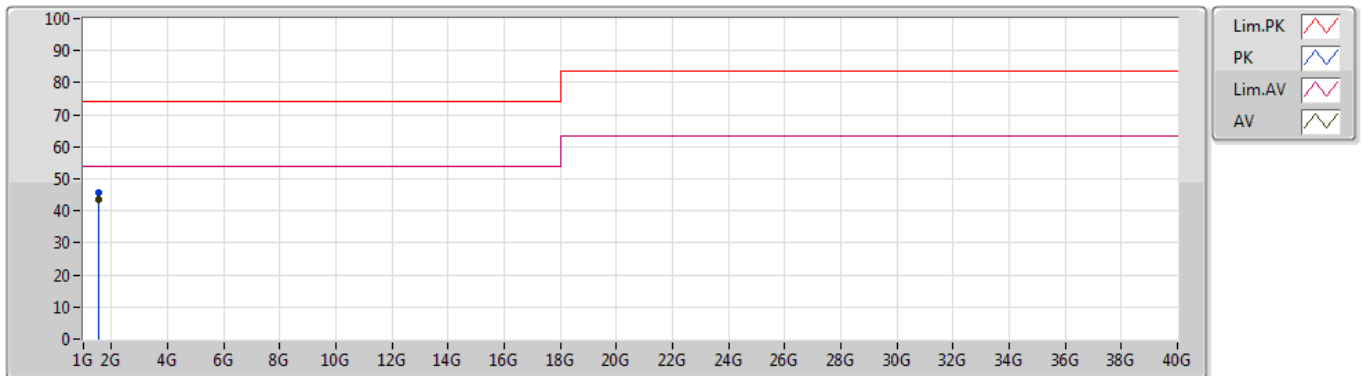
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90316G	50.49	74.00	-23.51	45.92	3	Horizontal	130	1.80	-	33.61	6.35	35.39
AV	4.90327G	36.53	54.00	-17.47	31.96	3	Horizontal	130	1.80	-	33.61	6.35	35.39



Summary

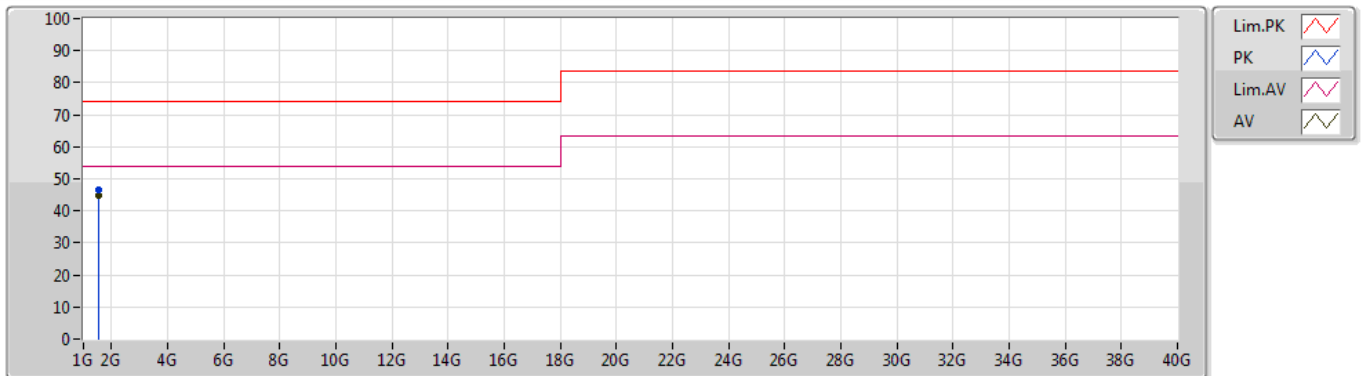
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.53492G	44.86	54.00	-9.14	Horizontal

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	1.53494G	45.77	74.00	-28.23	-8.98	3	Vertical	134	1.00	-	54.75	25.16	3.27	37.41
AV	1.53495G	43.53	54.00	-10.47	-8.98	3	Vertical	134	1.00	"Worst"	52.51	25.16	3.27	37.41

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	1.5349G	46.37	74.00	-27.63	-8.98	3	Horizontal	186	1.00	-	55.35	25.16	3.27	37.41
AV	1.53492G	44.86	54.00	-9.14	-8.98	3	Horizontal	186	1.00	"Worst"	53.84	25.16	3.27	37.41