RADIO TEST REPORT

FCC ID	:	XHG-RG1100
Equipment	:	Mobile Hotspot
Model Name	:	RG1100
Applicant	:	Franklin Technology Inc. 906 JEI Platz, 186, Gasan digital 1-ro, Gumcheon-Gu, Seoul, South Korea, 08502
Manufacturer	:	Franklin Technology Inc. 906 JEI Platz, 186, Gasan digital 1-ro, Gumcheon-Gu, Seoul, South Korea, 08502
Standard	:	47 CFR FCC Part 15.247

The product was received on May 07, 2021, and testing was started from May 27, 2021 and completed on Jul. 19, 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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History of this test report

Report No.	Version	Description	Issued Date
FR132651AA	01	Initial issue of report	Aug. 12, 2021

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), VHT20, ax (HEW20)	2412-2462	1-11 [11]

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

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

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	Hutec	HIA-ASM0053B-IR	PIFA Antenna	Murata	Note 1
2	2	Hutec	HIA-ASM0053B-IR	PIFA Antenna	Murata	

Note 1

Ant.	Port	Antenna Gain (dBi)			Cable Loss (dB)			True Gain (dBi)		
		2.4GHz	5GHz Band 1	5GHz Band 4	2.4GHz	5GHz Band 1	5GHz Band 4	2.4GHz	5GHz Band 1	5GHz Band 4
1	1	4.131	3.275	3.275	-1.18	-3.54	-3.98	2.951	-0.265	-0.705
2	2	-1.44	4.136	4.136	-1.18	-3.54	-3.98	-2.620	0.596	0.156

Note 2: The above information was declared by manufacturer.

For 2.4GHz function:

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11n/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.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.979	0.09	689u	3k
802.11g	0.99	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From power adapter / Host system / Li-ion Battery			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	QRCT (Version 4.0.00189.0)			

Note: The above information was declared by manufacturer.

1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Paul Chen	24-25.6 / 64-69	Jun. 07, 2021~ Jun. 08, 2021
Radiated <Above 1GHz>	03CH01-CB	Ken Yeh	24-24.8 / 63-67	May 27, 2021~ Jul. 17, 2021
Radiated <Below 1GHz>	03CH05-CB	Ken Yeh	24.5-24.7 / 65-68	May 27, 2021~ Jul. 17, 2021
Radiated <Co-location>	03CH05-CB	Ken Yeh	24.2-25 °C / 62-65%	May 27, 2021~ Jul. 17, 2021
AC Conduction	CO02-CB	Ryo Fan	23~24 / 61~62	Jul. 19, 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)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 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	15.5
2417MHz	15.5
2437MHz	14
2457MHz	16
2462MHz	16
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	13.5
2417MHz	14
2437MHz	12.5
2457MHz	14
2462MHz	14
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	10.5
2417MHz	10.5
2437MHz	9
2457MHz	10.5
2462MHz	10.5

Note:
- Evaluated HEW20 mode only, due to similar modulation. The power setting of HT20/VHT20 mode are the same or lower than HEW20.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	EUT: WiFi 2.4GHz – Powered from adapter
2	EUT: WiFi 2.4GHz – Powered from host system
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT: WiFi 5GHz – Powered from adapter
For operating mode 1 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position. 2.4GHz: EUT X axis and 5GHz: EUT Y 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 in X axis: WiFi 2.4GHz – Powered from Li-ion Battery
2	EUT in X axis: WiFi 2.4GHz – Powered from adapter
3	EUT in X axis: WiFi 2.4GHz – Powered from host system
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT in Y axis: WiFi 5GHz – Powered from host system
For operating mode 4 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. The worst case was found at X axis, thus the measurement will follow this same test configuration.	

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 Radiated measurement <Above 1GHz> ; thus, the measurement will follow this same test configuration.	
1	EUT in X axis: WiFi 2.4GHz + WiFi 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	**Brand Name**	**Model Name**	**Rating**
Adapter	Franklin Wireless	APS-KP018W-G	INPUT: 100-240V~50/60Hz, 0.5A, Max. OUTPUT: 5V, 3.0A, 9V, 2.0A, 12V, 1.5A
Li-ion Battery	Franklin Wireless	V105555P	3.8V, 4000mAh, 15.2Wh
Other			
Equipment Name	**Brand Name**	**Model Name**	**Remark**
USB 3.0 Type-C cable	Franklin Wireless	1575-017	Shielded, 1.2m

2.5 Support Equipment

For AC Conduction: N/A

For Radiated<Below 1GHz>:

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

For Radiated<Above 1GHz>:

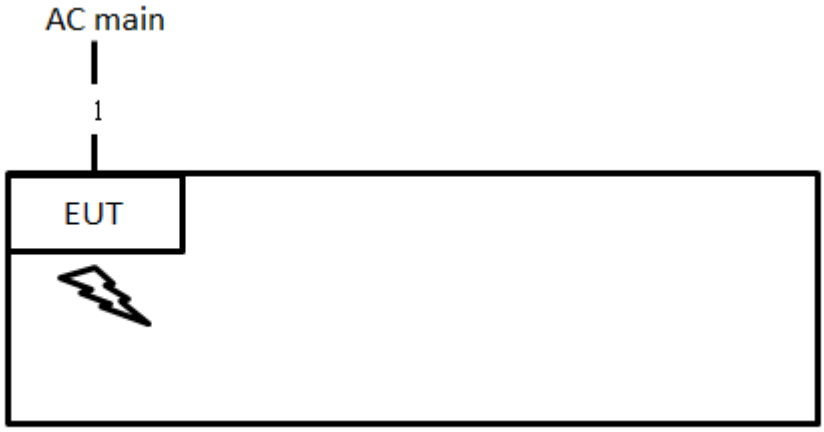
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A

For RF Conducted:

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

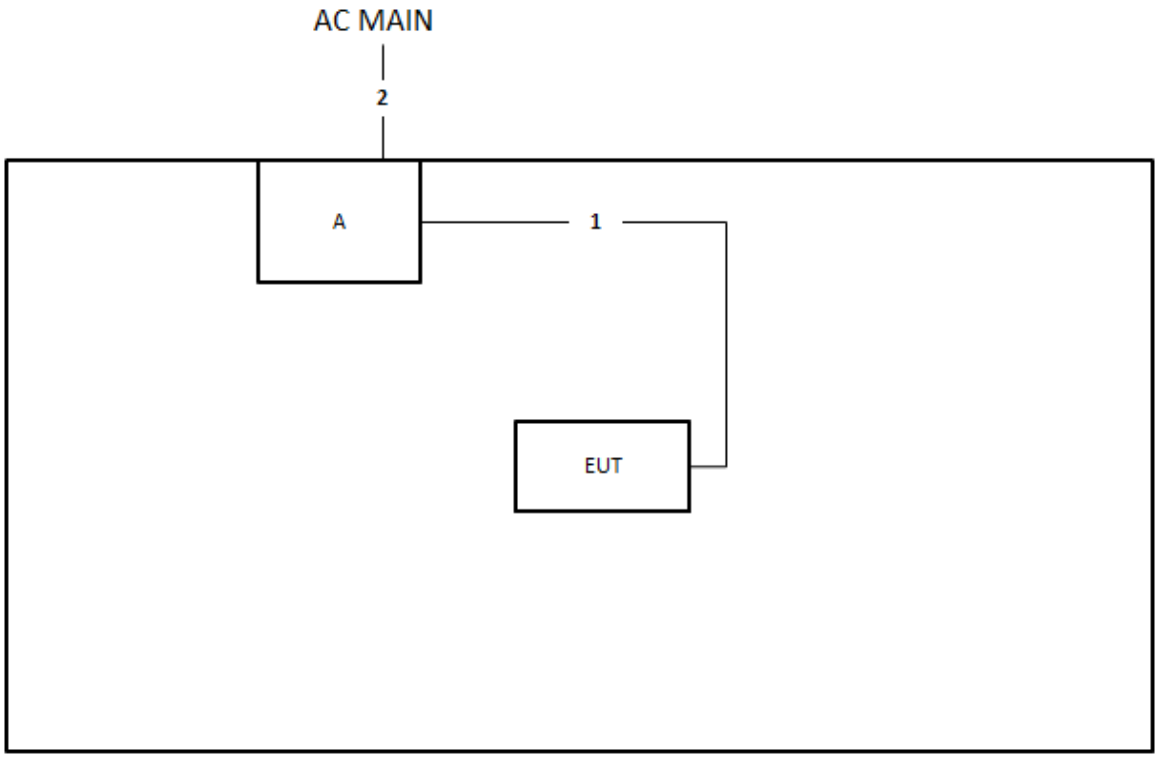
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



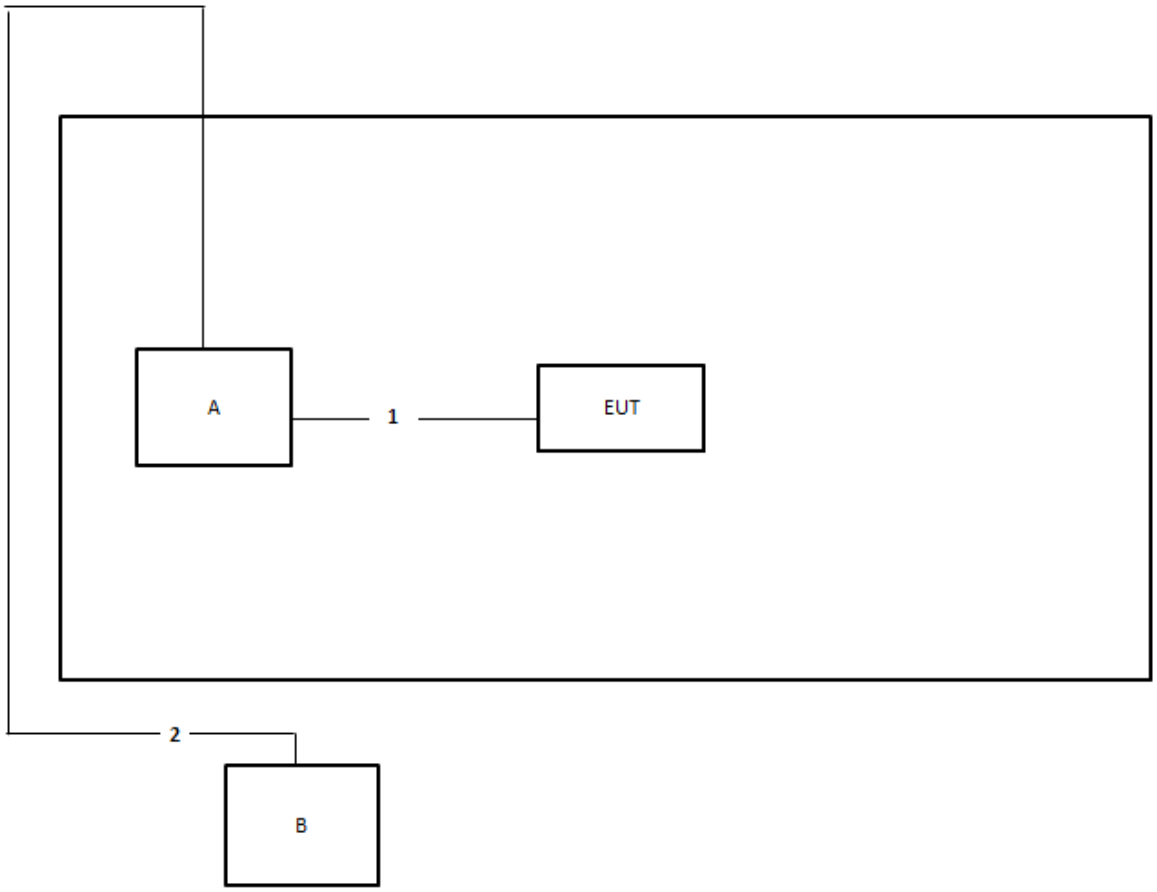
Item	Connection	Shielded	Length
1	Power cable	Yes	1.2m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	USB 3.0 Type-C cable	Yes	1.2m
2	Power cable	No	2.6m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	USB 3.0 Type-C cable	Yes	1.2m
2	RJ-45 cable	No	10m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

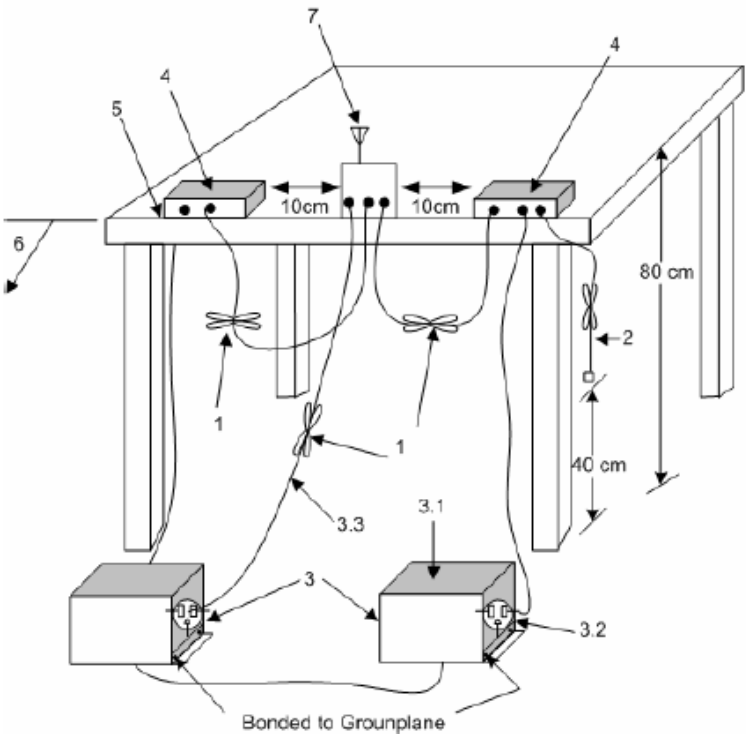
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

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 ≥ 500 kHz.

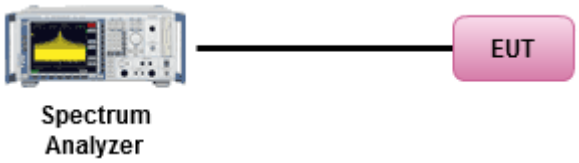
3.2.2 Measuring Instruments

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

Emission Bandwidth


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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


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

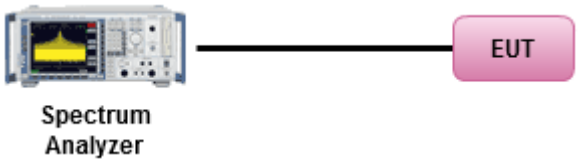
3.4.2 Measuring Instruments

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

Power Spectral Density


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.	

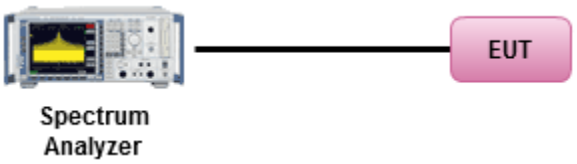
3.5.2 Measuring Instruments

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

Emissions in Non-restricted Frequency Bands


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.

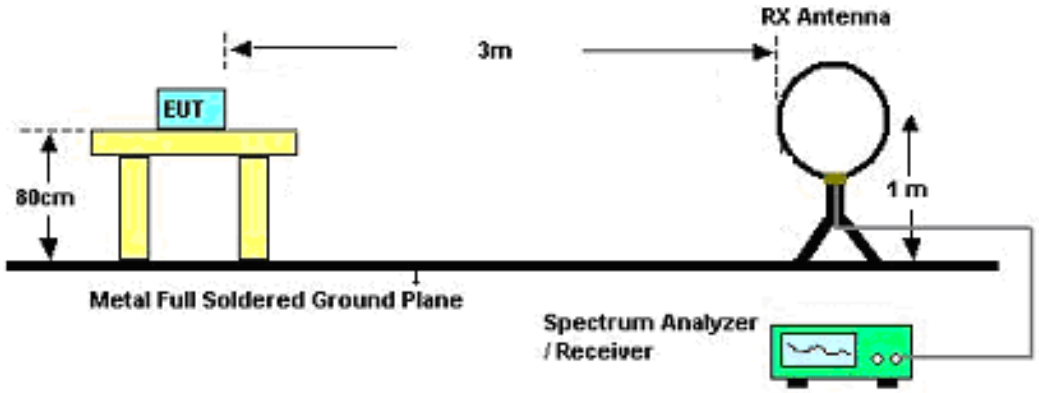
3.6.3 Test Procedures

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 ≥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≥1/T).
		☐	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 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.		

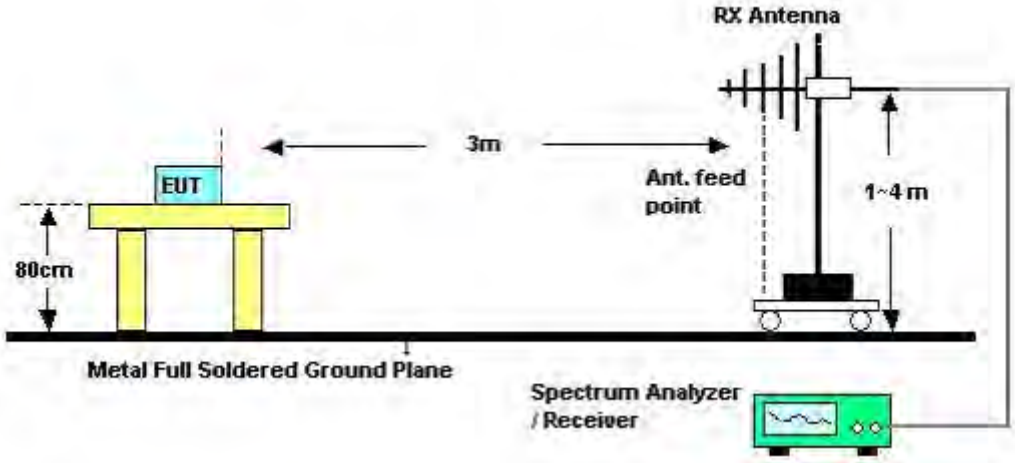
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

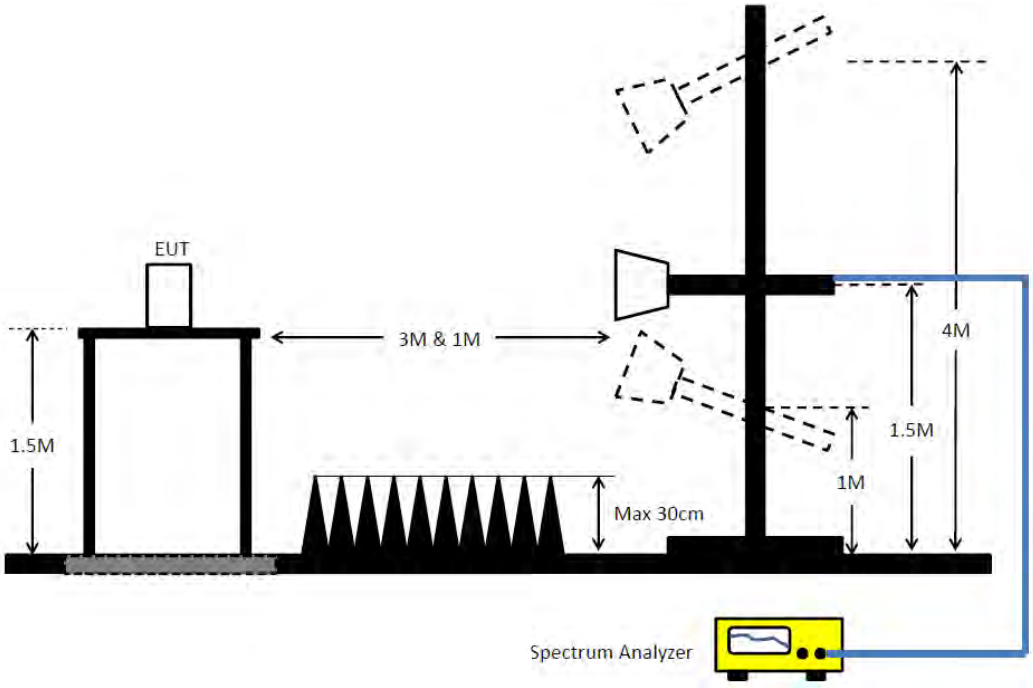
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.5 Measurement Results Calculation

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Dec. 04, 2020	Dec. 03, 2021	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 20, 2020	Nov. 19, 2021	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 05, 2021	May 04, 2022	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 20, 2020	Oct. 19, 2021	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Mar. 18, 2021	Mar. 17, 2022	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 10, 2020	Aug. 09, 2021	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 08, 2020	Nov. 07, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	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	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jul. 03, 2020	Jul. 02, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	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)
EMI Test Receiver	R&S	ESR7	102171	9kHz ~ 26GHz	Jul. 01, 2020	Jun. 30, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
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#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 07, 2021	May 06, 2022	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2020	Nov. 05, 2021	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 20, 2021	May 19, 2022	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH01-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun.15, 2021	Jun. 14, 2022	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 03, 2021	May 02, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 27, 2020	Jul. 26, 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)

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

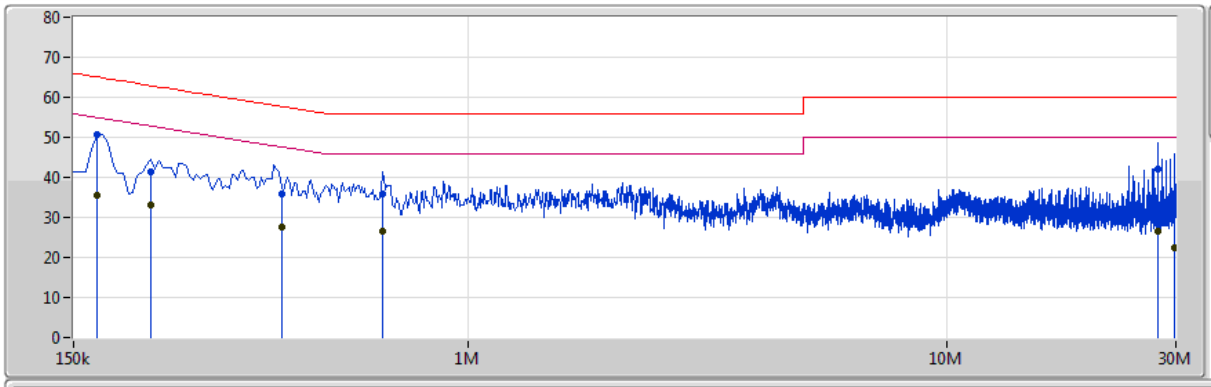
NCR means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	168.36k	50.84	65.04	-14.20	Line

Mode 1

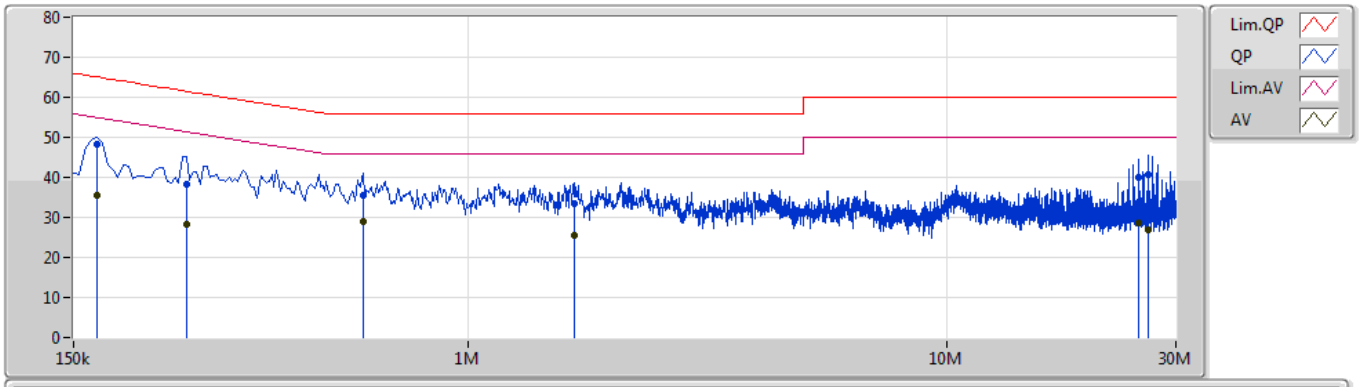
19/07/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	168.36k	50.84	65.04	-14.20	10.30	Line	"Worst"	40.54	0.07	0.07	10.16
AV	168.36k	35.68	55.04	-19.36	10.30	Line	-	25.38	0.07	0.07	10.16
QP	217.59k	41.32	62.90	-21.58	10.29	Line	-	31.03	0.07	0.07	10.15
AV	217.59k	33.03	52.90	-19.87	10.29	Line	-	22.74	0.07	0.07	10.15
QP	408.55k	35.80	57.68	-21.88	10.25	Line	-	25.55	0.08	0.06	10.11
AV	408.55k	27.67	47.68	-20.01	10.25	Line	-	17.42	0.08	0.06	10.11
QP	663.1k	35.75	56.00	-20.25	10.26	Line	-	25.49	0.09	0.07	10.10
AV	663.1k	26.63	46.00	-19.37	10.26	Line	-	16.37	0.09	0.07	10.10
QP	27.483M	42.07	60.00	-17.93	11.07	Line	-	31.00	0.59	0.29	10.19
AV	27.483M	26.52	50.00	-23.48	11.07	Line	-	15.45	0.59	0.29	10.19
QP	29.823M	35.92	60.00	-24.08	11.12	Line	-	24.80	0.64	0.29	10.19
AV	29.823M	22.48	50.00	-27.52	11.12	Line	-	11.36	0.64	0.29	10.19

Mode 1

19/07/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	168k	48.29	65.06	-16.77	10.28	Neutral	"Worst"	38.01	0.06	0.07	10.15
AV	168k	35.55	55.06	-19.51	10.28	Neutral	-	25.27	0.06	0.07	10.15
QP	258k	38.15	61.49	-23.34	10.27	Neutral	-	27.88	0.06	0.07	10.14
AV	258k	28.36	51.49	-23.13	10.27	Neutral	-	18.09	0.06	0.07	10.14
QP	604.5k	35.67	56.00	-20.33	10.25	Neutral	-	25.42	0.07	0.07	10.11
AV	604.5k	28.92	46.00	-17.08	10.25	Neutral	-	18.67	0.07	0.07	10.11
QP	1.662M	33.54	56.00	-22.46	10.30	Neutral	-	23.24	0.09	0.09	10.12
AV	1.662M	25.53	46.00	-20.47	10.30	Neutral	-	15.23	0.09	0.09	10.12
QP	25.071M	39.94	60.00	-20.06	10.83	Neutral	-	29.11	0.35	0.28	10.20
AV	25.071M	28.47	50.00	-21.53	10.83	Neutral	-	17.64	0.35	0.28	10.20
QP	26.268M	40.82	60.00	-19.18	10.84	Neutral	-	29.98	0.36	0.28	10.20
AV	26.268M	26.82	50.00	-23.18	10.84	Neutral	-	15.98	0.36	0.28	10.20

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.1M	13.068M	13M1G1D	8.025M	12.819M
802.11g_Nss1,(6Mbps)_2TX	16.3M	16.342M	16M3D1D	15.425M	16.292M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.775M	18.866M	18M9D1D	18.05M	18.841M

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

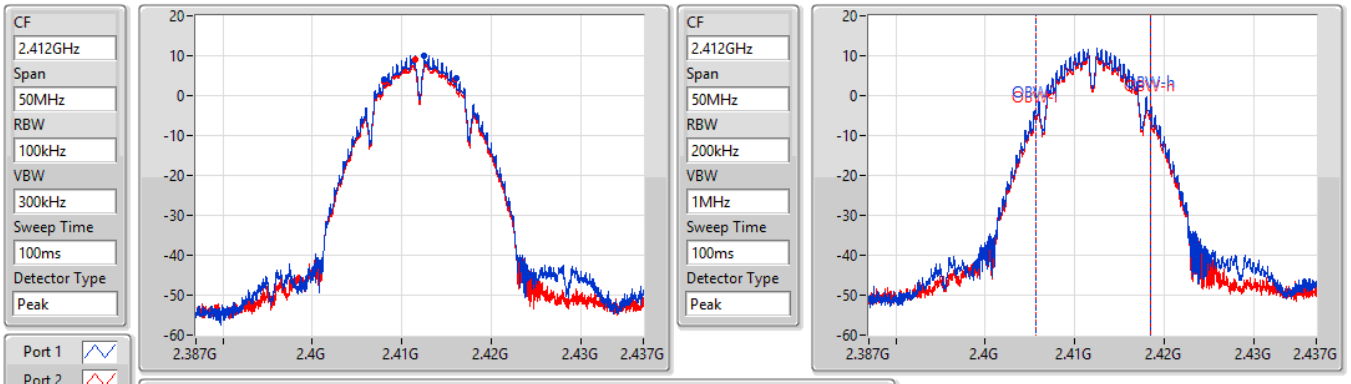
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.075M	12.819M	8.05M	12.819M
2437MHz	Pass	500k	8.05M	12.969M	8.025M	12.819M
2462MHz	Pass	500k	8.1M	13.068M	8.075M	12.894M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.9M	16.342M	15.675M	16.292M
2437MHz	Pass	500k	16.025M	16.317M	15.9M	16.317M
2462MHz	Pass	500k	15.425M	16.342M	16.3M	16.317M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.725M	18.866M	18.2M	18.841M
2437MHz	Pass	500k	18.775M	18.841M	18.65M	18.841M
2462MHz	Pass	500k	18.4M	18.841M	18.05M	18.841M

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

802.11b_Nss1,(1Mbps)_2TX EBW

2412MHz

08/06/2021

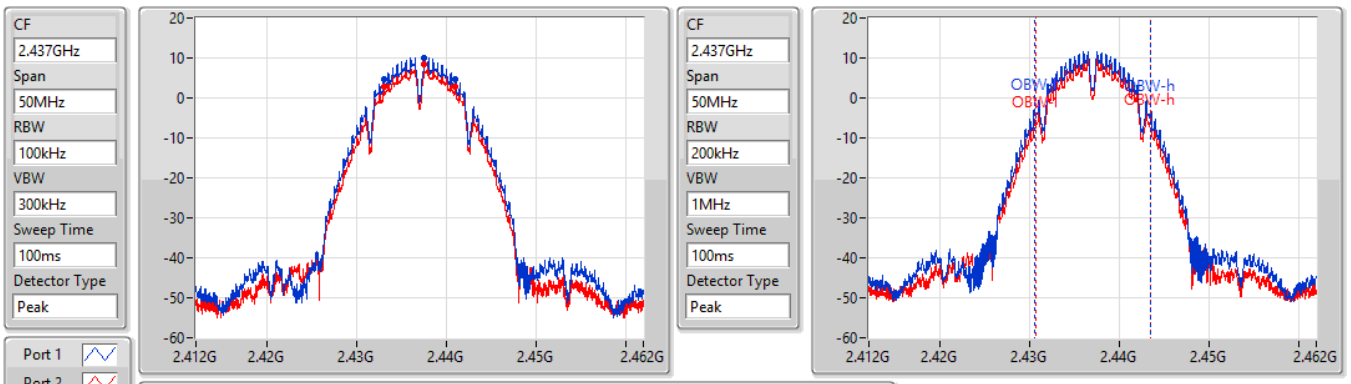


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.075M	2.407975G	2.41605G	12.819M	2.405703G	2.418522G	500k	1
8.05M	2.407975G	2.416025G	12.819M	2.405678G	2.418497G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2437MHz

08/06/2021

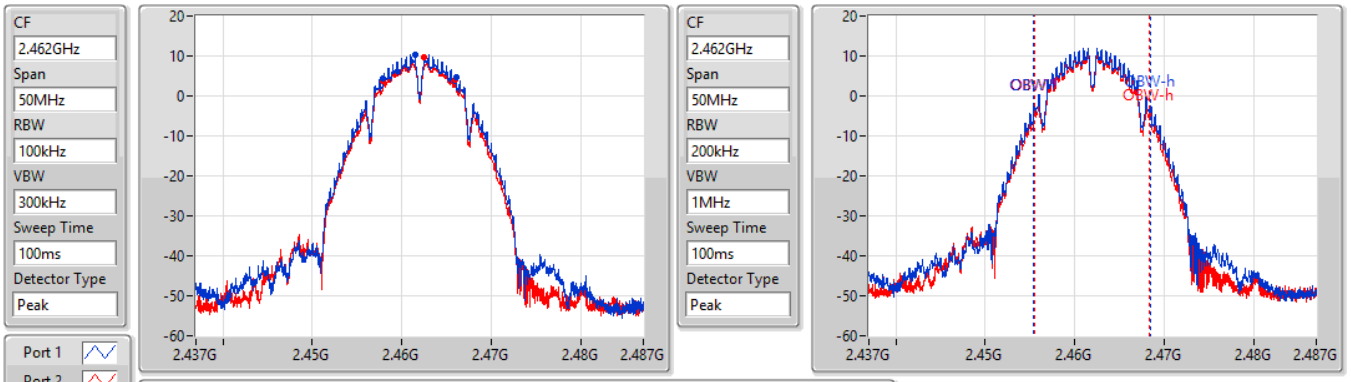


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.05M	2.432975G	2.441025G	12.969M	2.430503G	2.443472G	500k	1
8.025M	2.433G	2.441025G	12.819M	2.430603G	2.443422G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2462MHz

08/06/2021

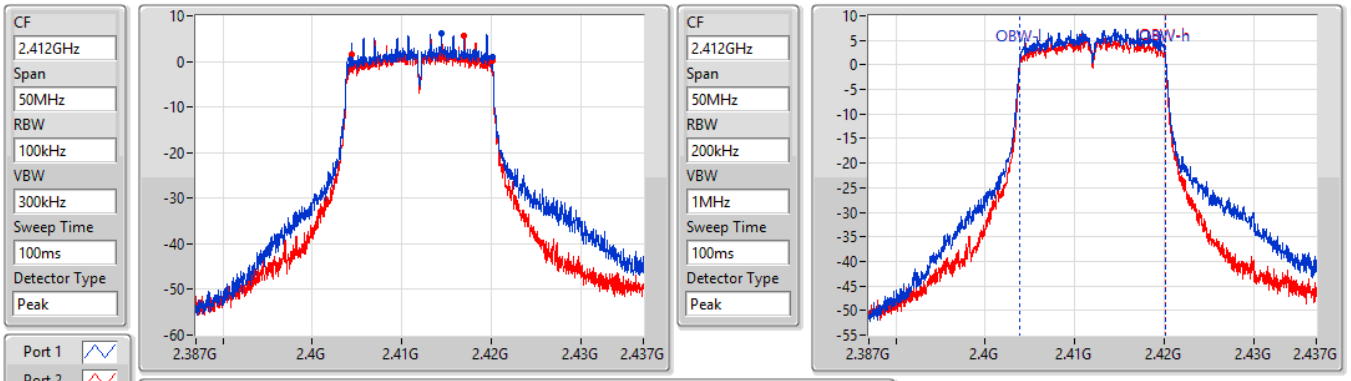


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.1M	2.45795G	2.46605G	13.068M	2.455428G	2.468497G	500k	1
8.075M	2.45795G	2.466025G	12.894M	2.455478G	2.468372G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2412MHz

08/06/2021

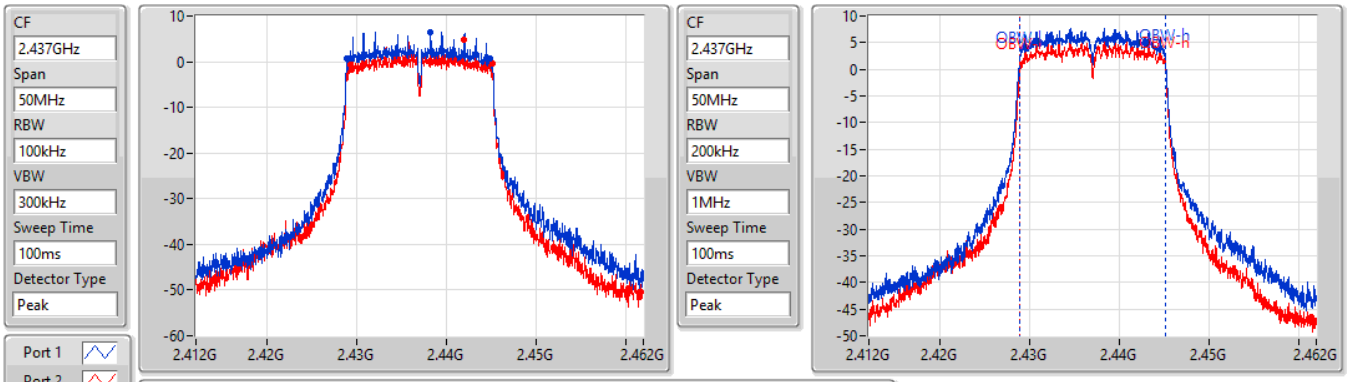


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.9M	2.40425G	2.42015G	16.342M	2.403854G	2.420196G	500k	1
15.675M	2.40445G	2.420125G	16.292M	2.403879G	2.420171G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2437MHz

08/06/2021

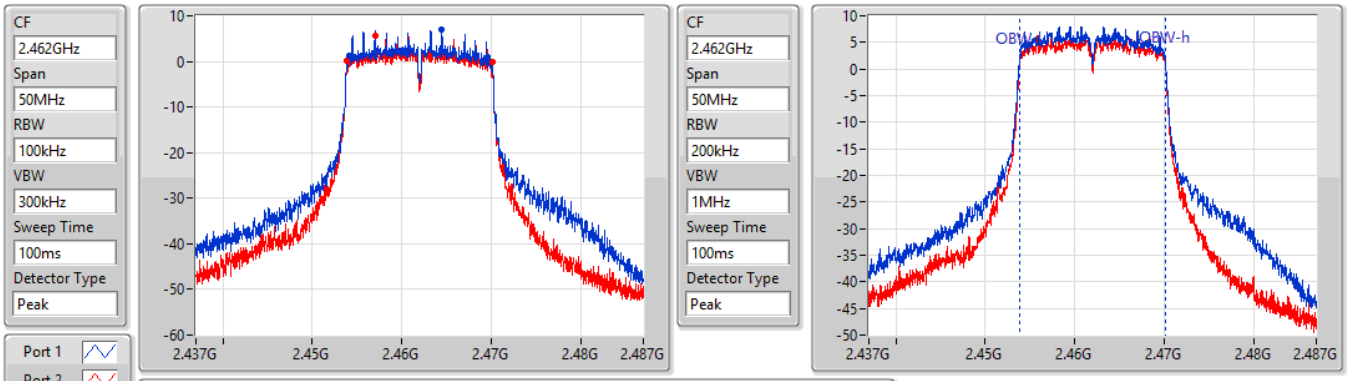


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.025M	2.428875G	2.4449G	16.317M	2.428829G	2.445146G	500k	1
15.9M	2.42925G	2.44515G	16.317M	2.428854G	2.445171G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2462MHz

08/06/2021

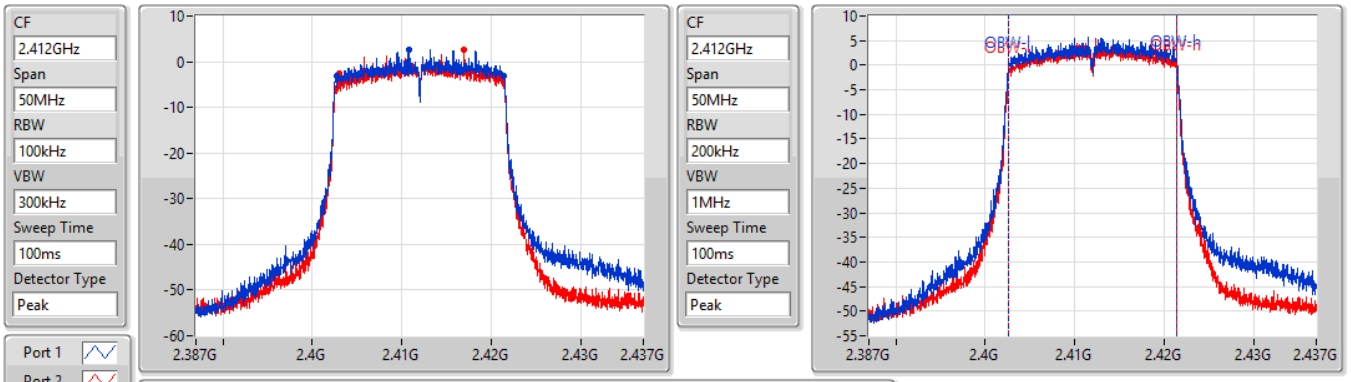


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.425M	2.4541G	2.469525G	16.342M	2.453804G	2.470146G	500k	1
16.3M	2.45385G	2.47015G	16.317M	2.453829G	2.470146G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

2412MHz

08/06/2021

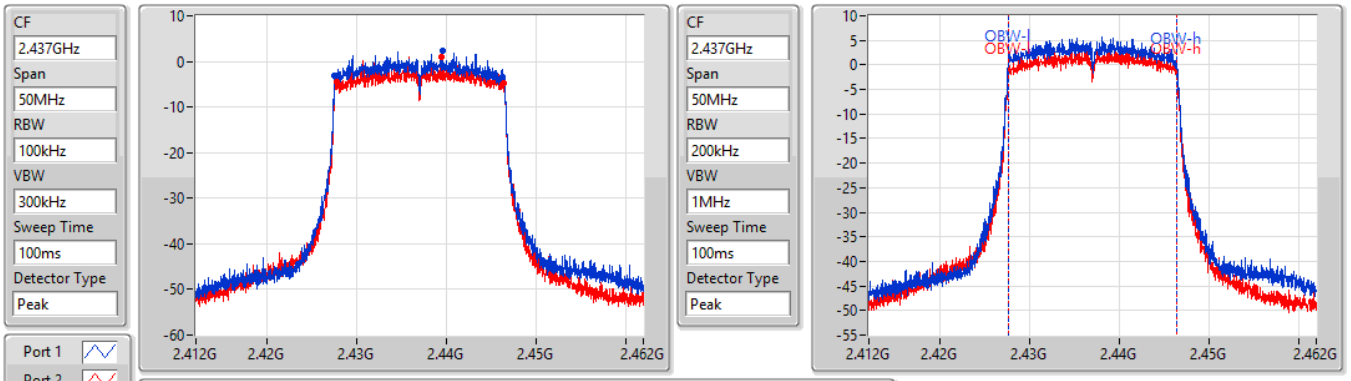


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.725M	2.402675G	2.4214G	18.866M	2.402605G	2.42147G	500k	1
18.2M	2.403G	2.4212G	18.841M	2.402605G	2.421445G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

2437MHz

08/06/2021

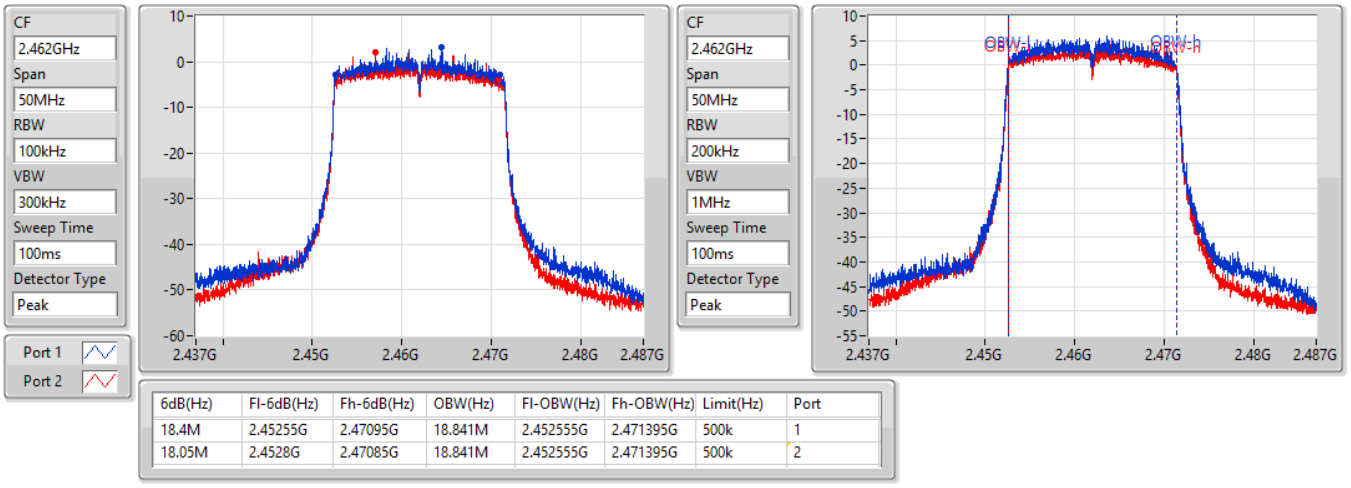


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.775M	2.427525G	2.4463G	18.841M	2.42758G	2.44642G	500k	1
18.65M	2.427725G	2.446375G	18.841M	2.42758G	2.44642G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

2462MHz

08/06/2021



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.4M	2.45255G	2.47095G	18.841M	2.452555G	2.471395G	500k	1
18.05M	2.4528G	2.47085G	18.841M	2.452555G	2.471395G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	21.47	0.14028
802.11g_Nss1,(6Mbps)_2TX	19.46	0.08831
802.11ax HEW20_Nss1,(MCS0)_2TX	16.36	0.04325

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.951	18.76	17.89	21.36	30.00
2417MHz	Pass	2.951	18.53	17.22	20.93	30.00
2437MHz	Pass	2.951	18.83	17.03	21.03	30.00
2457MHz	Pass	2.951	18.84	17.70	21.32	30.00
2462MHz	Pass	2.951	18.91	17.95	21.47	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.951	16.55	15.64	19.13	30.00
2417MHz	Pass	2.951	16.92	15.93	19.46	30.00
2437MHz	Pass	2.951	16.95	15.02	19.10	30.00
2457MHz	Pass	2.951	16.74	15.63	19.23	30.00
2462MHz	Pass	2.951	16.87	15.84	19.40	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.951	13.80	12.85	16.36	30.00
2417MHz	Pass	2.951	13.58	12.57	16.11	30.00
2437MHz	Pass	2.951	13.59	12.03	15.89	30.00
2457MHz	Pass	2.951	13.59	12.44	16.06	30.00
2462MHz	Pass	2.951	13.73	12.53	16.18	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	-2.97
802.11g_Nss1,(6Mbps)_2TX	-7.56
802.11ax HEW20_Nss1,(MCS0)_2TX	-10.65

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

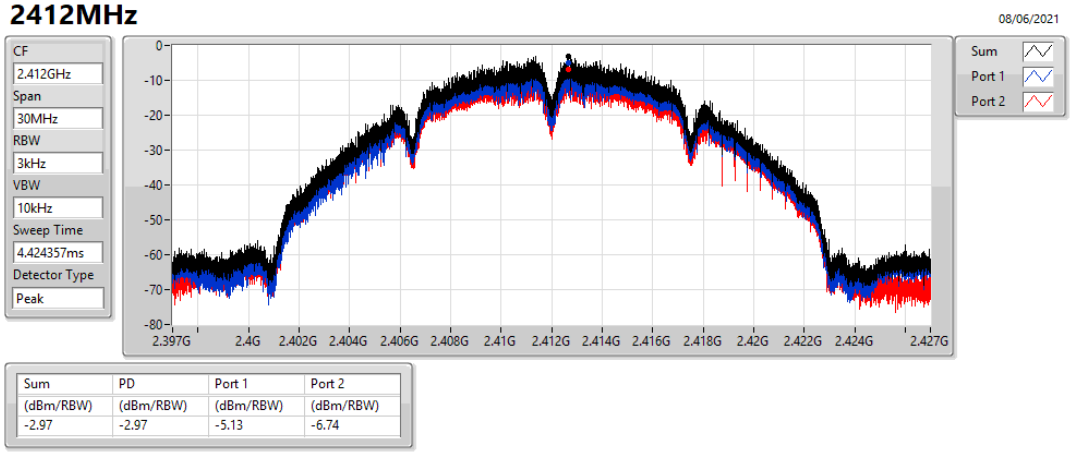
Result

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	3.615	-5.13	-6.74	-2.97	8.00
2437MHz	Pass	3.615	-5.23	-6.95	-3.00	8.00
2462MHz	Pass	3.615	-5.34	-6.66	-3.18	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.615	-10.16	-9.52	-7.97	8.00
2437MHz	Pass	3.615	-10.63	-11.43	-8.98	8.00
2462MHz	Pass	3.615	-9.22	-9.44	-7.56	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.615	-12.09	-13.96	-11.35	8.00
2437MHz	Pass	3.615	-12.37	-14.08	-10.72	8.00
2462MHz	Pass	3.615	-11.35	-13.27	-10.65	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

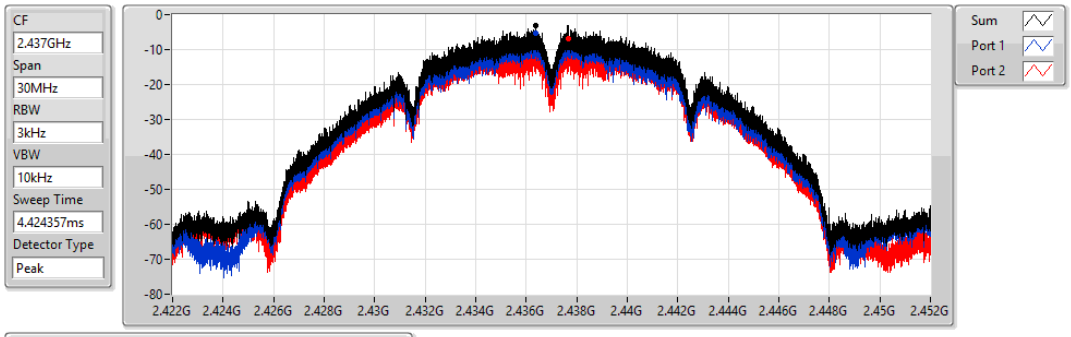
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.97	-2.97	-5.13	-6.74

802.11b_Nss1,(1Mbps)_2TX PSD

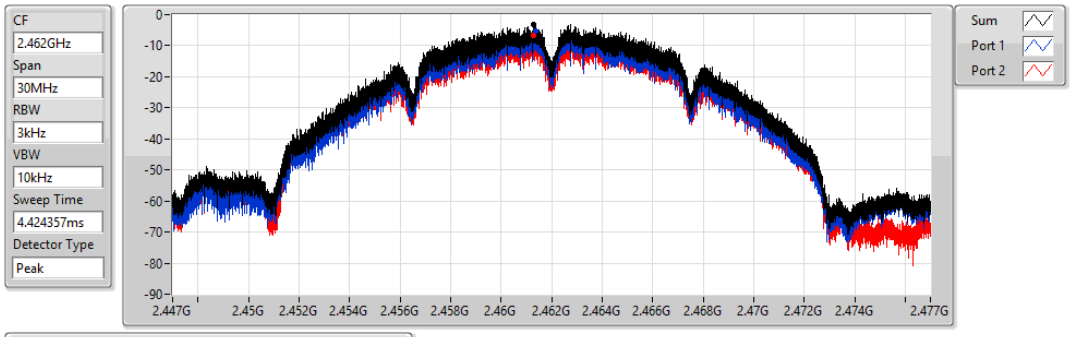
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.00	-3.00	-5.23	-6.95

802.11b_Nss1,(1Mbps)_2TX PSD

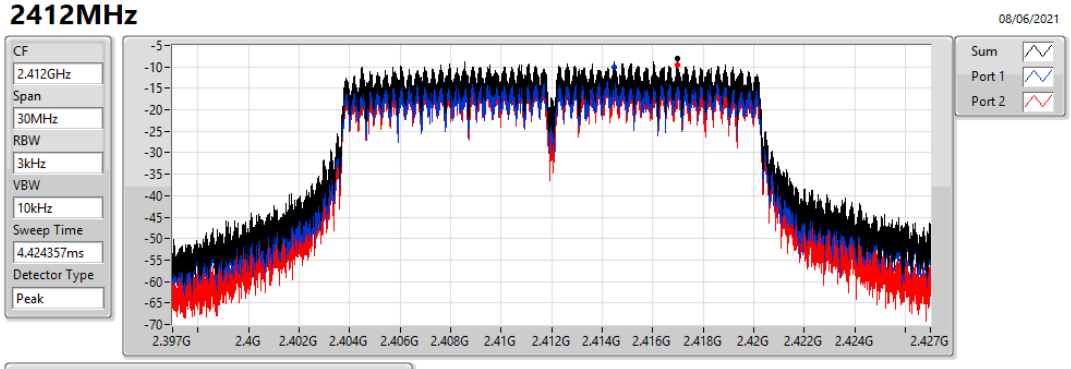
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.18	-3.18	-5.34	-6.66

802.11g_Nss1,(6Mbps)_2TX PSD

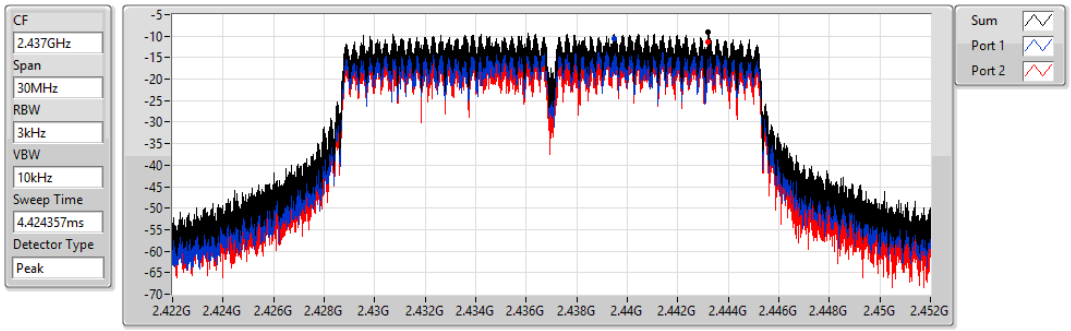
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.97	-7.97	-10.16	-9.52

802.11g_Nss1,(6Mbps)_2TX PSD

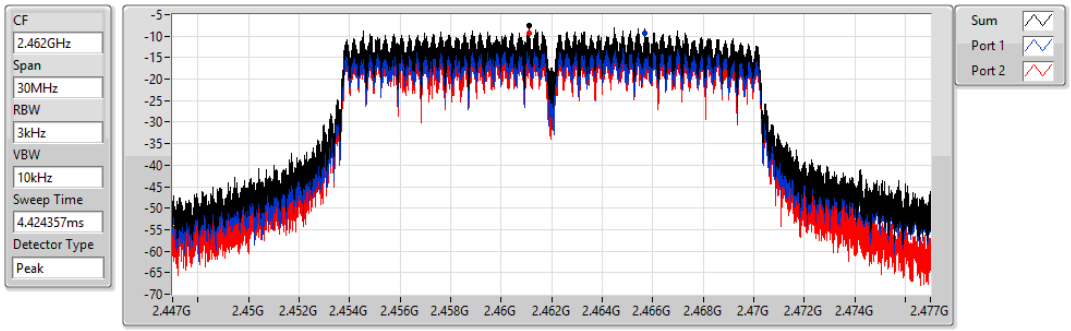
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.98	-8.98	-10.63	-11.43

802.11g_Nss1,(6Mbps)_2TX PSD

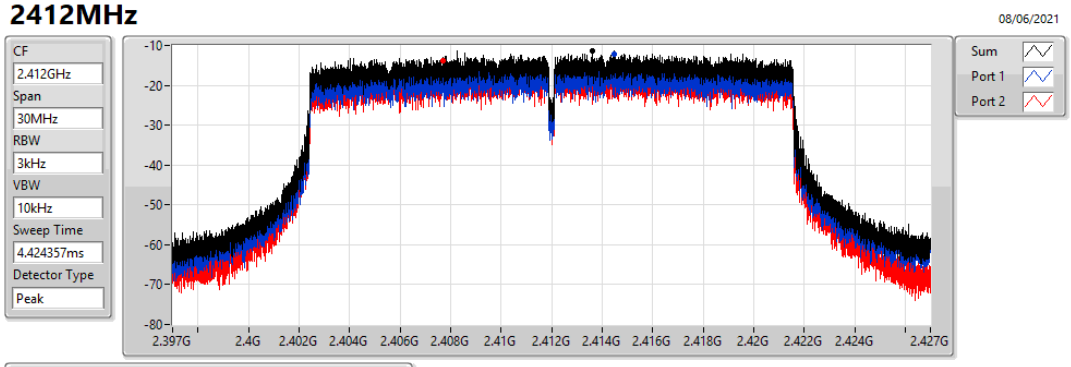
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.56	-7.56	-9.22	-9.44

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

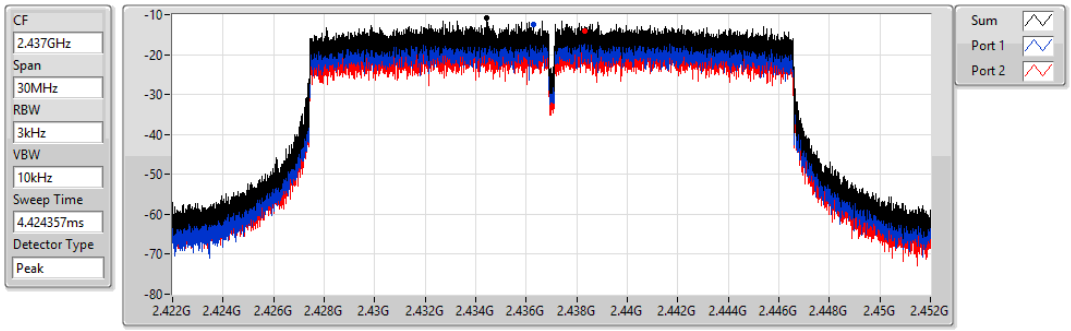
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.35	-11.35	-12.09	-13.96

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

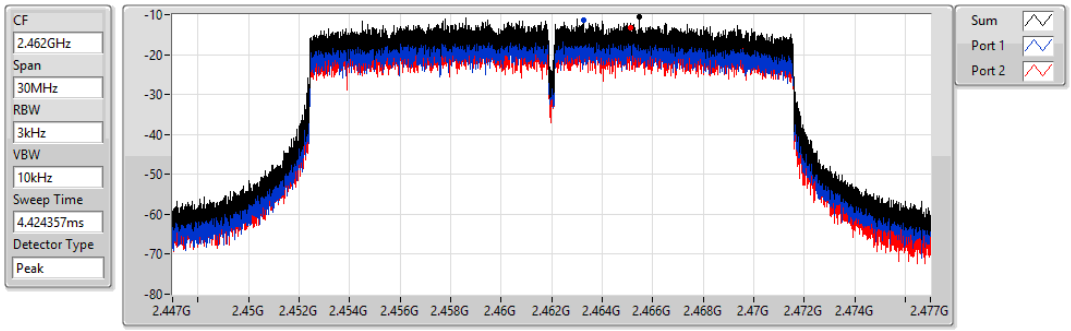
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.72	-10.72	-12.37	-14.08

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.65	-10.65	-11.35	-13.27

Summary

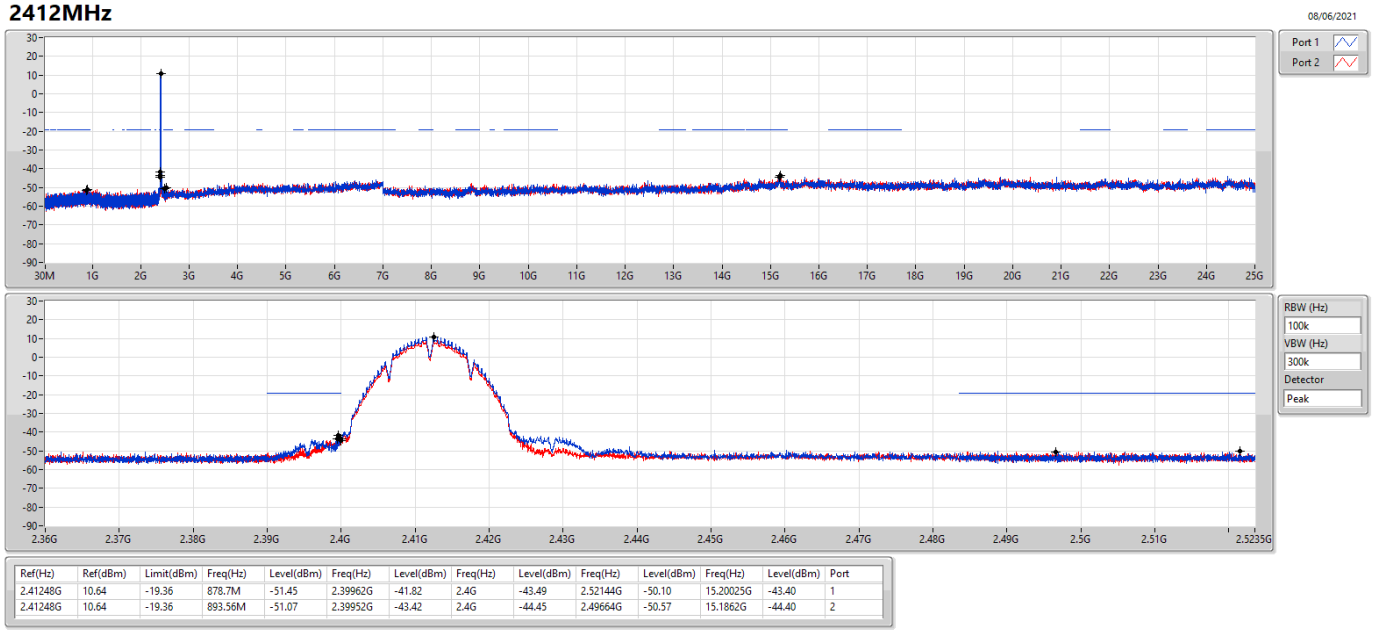
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.41248G	10.64	-19.36	878.7M	-51.45	2.39962G	-41.82	2.4G	-43.49	2.52144G	-50.10	15.20025G	-43.40	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.45703G	7.16	-22.84	795.7M	-50.86	2.39988G	-29.88	2.4G	-32.42	2.509G	-50.06	24.17399G	-44.60	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.41328G	3.65	-26.35	857.44M	-51.47	2.39998G	-37.30	2.4G	-39.98	2.51696G	-50.26	23.48003G	-44.06	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	2.41248G	10.64	-19.36	878.7M	-51.45	2.39962G	-41.82	2.4G	-43.49	2.52144G	-50.10	15.20025G	-43.40	1
2412MHz	Pass	2.41248G	10.64	-19.36	893.56M	-51.07	2.39952G	-43.42	2.4G	-44.45	2.49664G	-50.57	15.1862G	-44.40	2
2437MHz	Pass	2.41248G	10.64	-19.36	1.82789G	-51.28	2.39374G	-50.30	2.4835G	-53.33	2.49828G	-49.84	24.43247G	-44.61	1
2437MHz	Pass	2.41248G	10.64	-19.36	1.82148G	-51.02	2.39982G	-51.36	2.4835G	-52.42	2.51518G	-49.85	16.37745G	-45.04	2
2462MHz	Pass	2.41248G	10.64	-19.36	681.82M	-51.47	2.39934G	-50.70	2.4835G	-53.02	2.50898G	-50.23	24.1768G	-44.55	1
2462MHz	Pass	2.41248G	10.64	-19.36	950.35M	-52.16	2.39314G	-51.14	2.4G	-53.44	2.48762G	-50.10	15.19463G	-44.90	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.45703G	7.16	-22.84	795.7M	-50.86	2.39988G	-29.88	2.4G	-32.42	2.509G	-50.06	24.17399G	-44.60	1
2412MHz	Pass	2.45703G	7.16	-22.84	907.25M	-51.99	2.39994G	-36.01	2.4G	-38.32	2.50456G	-50.56	21.83924G	-44.63	2
2437MHz	Pass	2.45703G	7.16	-22.84	508.52M	-51.56	2.3967G	-49.20	2.4G	-52.43	2.51554G	-50.28	15.19463G	-44.10	1
2437MHz	Pass	2.45703G	7.16	-22.84	731.91M	-50.88	2.397G	-51.40	2.4G	-52.14	2.48658G	-49.18	24.54766G	-44.92	2
2462MHz	Pass	2.45703G	7.16	-22.84	2.07807G	-51.02	2.39378G	-51.19	2.4835G	-39.60	2.48374G	-39.82	21.78024G	-45.04	1
2462MHz	Pass	2.45703G	7.16	-22.84	701.04M	-51.77	2.39918G	-51.49	2.4835G	-48.93	2.4839G	-46.72	24.10656G	-44.93	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41328G	3.65	-26.35	857.44M	-51.47	2.39998G	-37.30	2.4G	-39.98	2.51696G	-50.26	23.48003G	-44.06	1
2412MHz	Pass	2.41328G	3.65	-26.35	2.17564G	-51.15	2.39982G	-40.41	2.4G	-41.90	2.4848G	-50.01	15.19744G	-43.93	2
2437MHz	Pass	2.41328G	3.65	-26.35	906.08M	-51.42	2.3919G	-51.61	2.4G	-52.32	2.48414G	-49.65	24.45775G	-45.05	1
2437MHz	Pass	2.41328G	3.65	-26.35	346.01M	-50.98	2.39116G	-50.97	2.4G	-54.12	2.50156G	-49.77	21.8561G	-44.26	2
2462MHz	Pass	2.41328G	3.65	-26.35	1.82556G	-51.99	2.39178G	-49.82	2.4835G	-48.66	2.48422G	-46.46	16.57131G	-44.56	1
2462MHz	Pass	2.41328G	3.65	-26.35	888.02M	-51.06	2.39274G	-51.11	2.4835G	-52.51	2.50518G	-48.15	24.89324G	-44.84	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

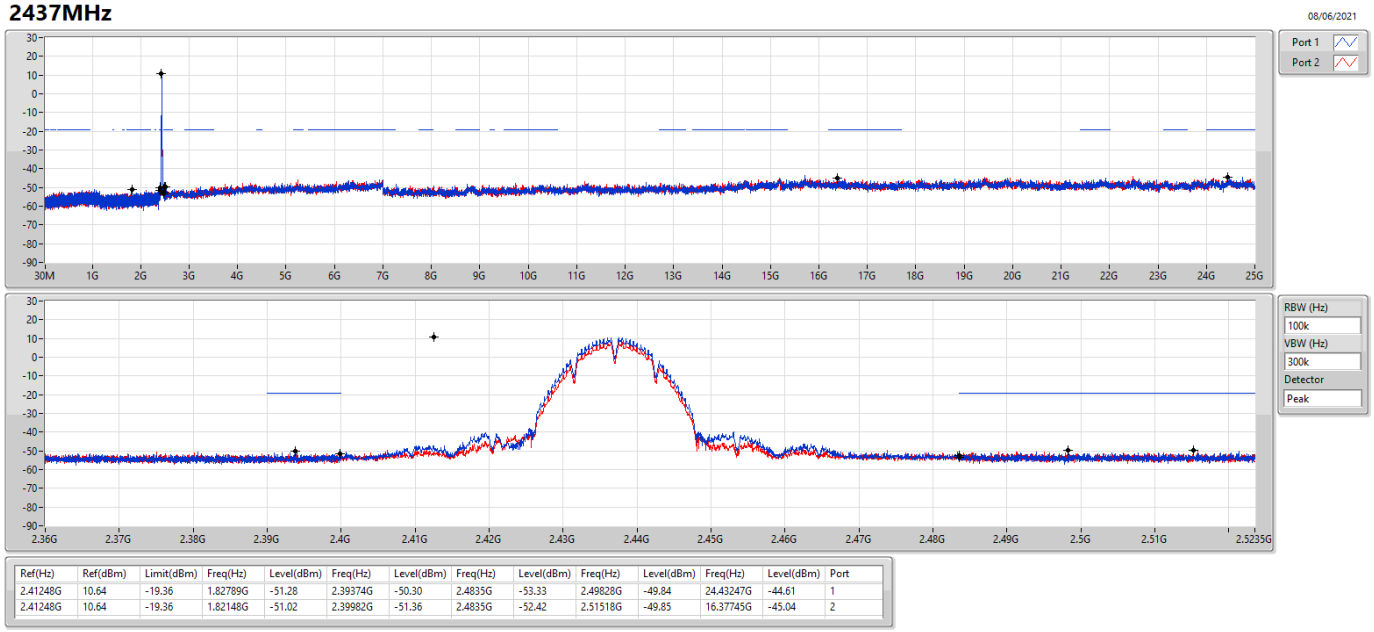
2412MHz



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
2.41248G	10.64	-19.36	878.7M	-51.45	2.39962G	-41.82	2.4G	-43.49	2.52144G	-50.10	15.20025G	-43.40	1
2.41248G	10.64	-19.36	893.56M	-51.07	2.39952G	-43.42	2.4G	-44.45	2.49664G	-50.57	15.1862G	-44.40	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

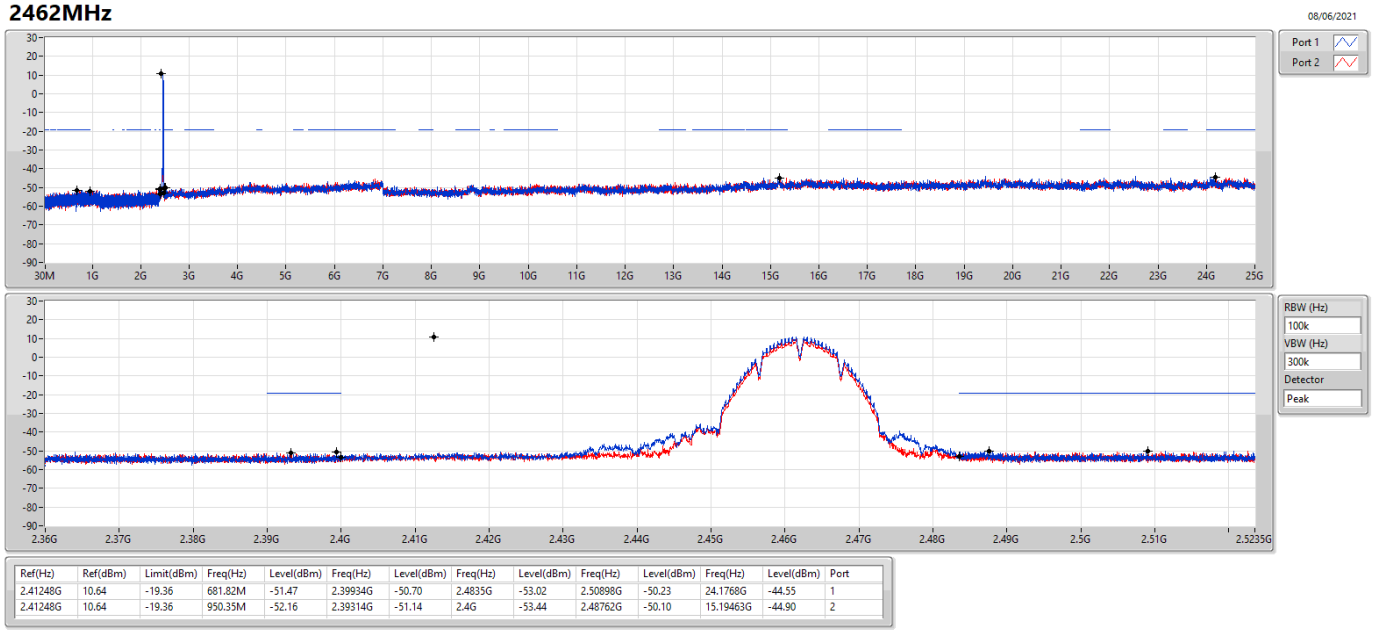
2437MHz



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
2.41248G	10.64	-19.36	1.82789G	-51.28	2.39374G	-50.30	2.4835G	-53.33	2.49828G	-49.84	24.43247G	-44.61	1
2.41248G	10.64	-19.36	1.82148G	-51.02	2.39982G	-51.36	2.4835G	-52.42	2.51518G	-49.85	16.37745G	-45.04	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

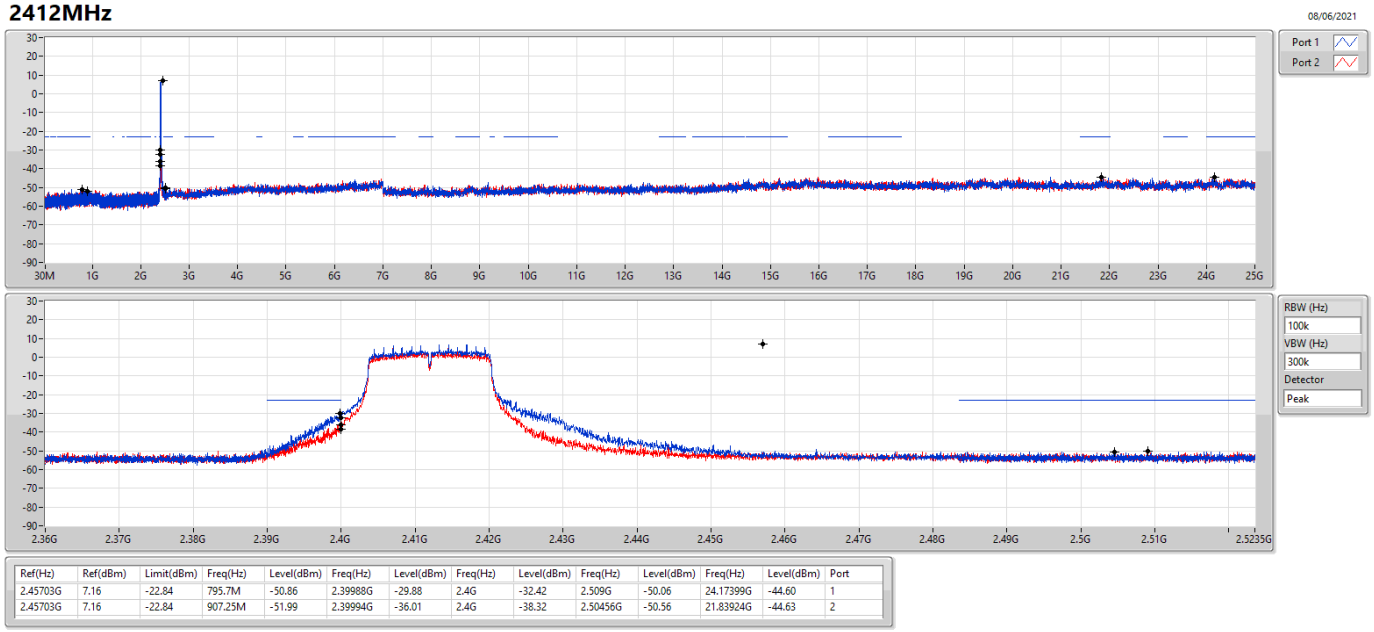
2462MHz



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
2.41248G	10.64	-19.36	681.82M	-51.47	2.39934G	-50.70	2.4835G	-53.02	2.50898G	-50.23	24.1768G	-44.55	1
2.41248G	10.64	-19.36	950.35M	-52.16	2.39314G	-51.14	2.4G	-53.44	2.48762G	-50.10	15.19463G	-44.90	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

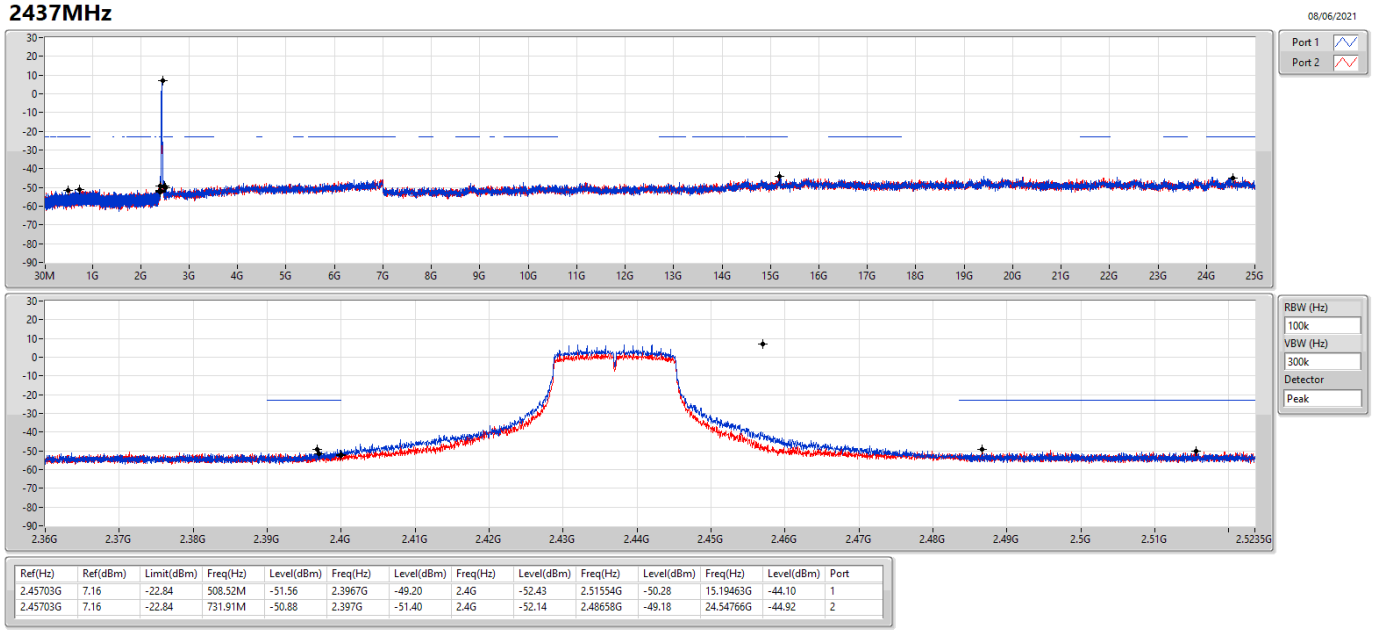
2412MHz



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
2.45703G	7.16	-22.84	795.7M	-50.86	2.39988G	-29.88	2.4G	-32.42	2.509G	-50.06	24.17399G	-44.60	1
2.45703G	7.16	-22.84	907.25M	-51.99	2.39994G	-36.01	2.4G	-38.32	2.50456G	-50.56	21.83924G	-44.63	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

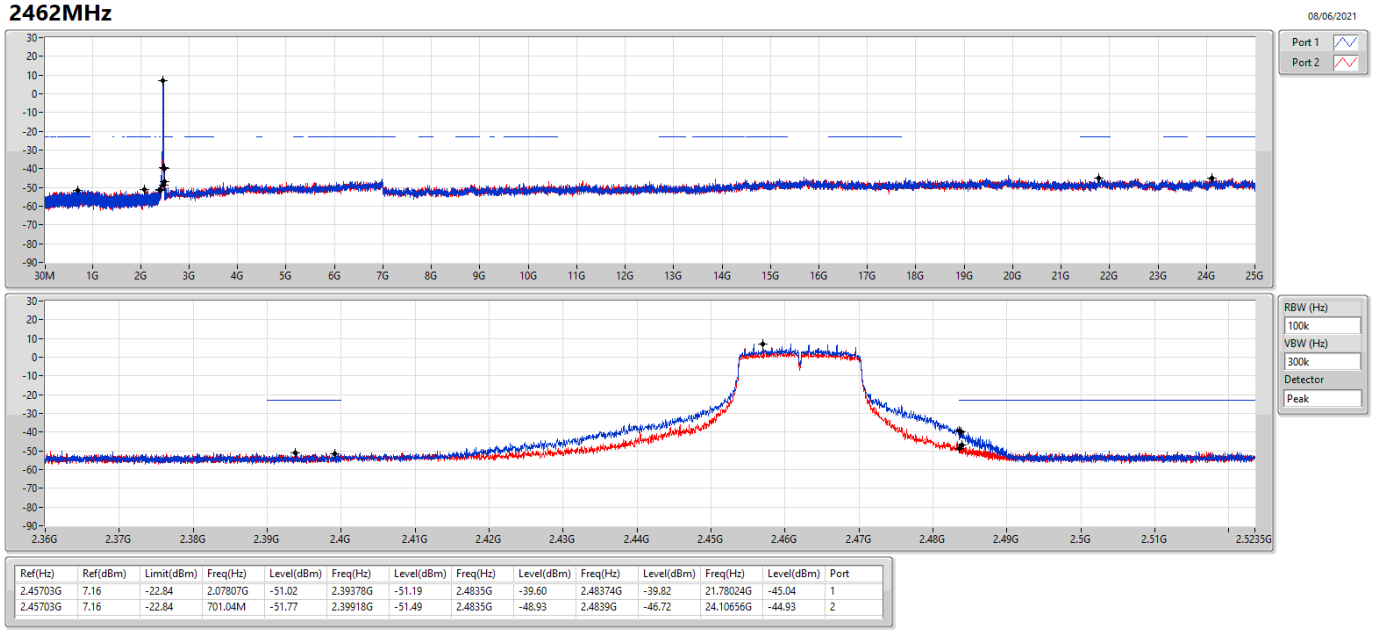
2437MHz



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
2.45703G	7.16	-22.84	508.52M	-51.56	2.3967G	-49.20	2.4G	-52.43	2.51554G	-50.28	15.19463G	-44.10	1
2.45703G	7.16	-22.84	731.91M	-50.88	2.397G	-51.40	2.4G	-52.14	2.48658G	-49.18	24.54766G	-44.92	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

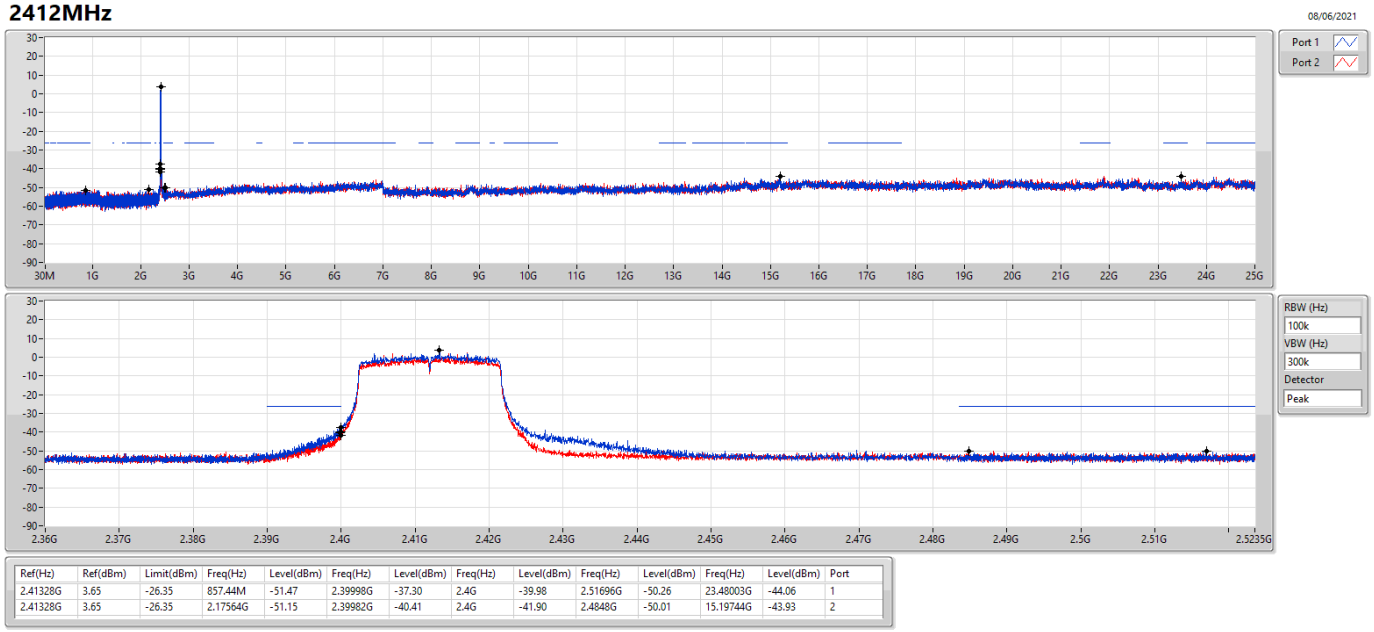
2462MHz



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
2.45703G	7.16	-22.84	2.07807G	-51.02	2.39378G	-51.19	2.4835G	-39.60	2.48374G	-39.82	21.78024G	-45.04	1
2.45703G	7.16	-22.84	701.04M	-51.77	2.39918G	-51.49	2.4835G	-48.93	2.4839G	-46.72	24.10656G	-44.93	2

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE NdB**

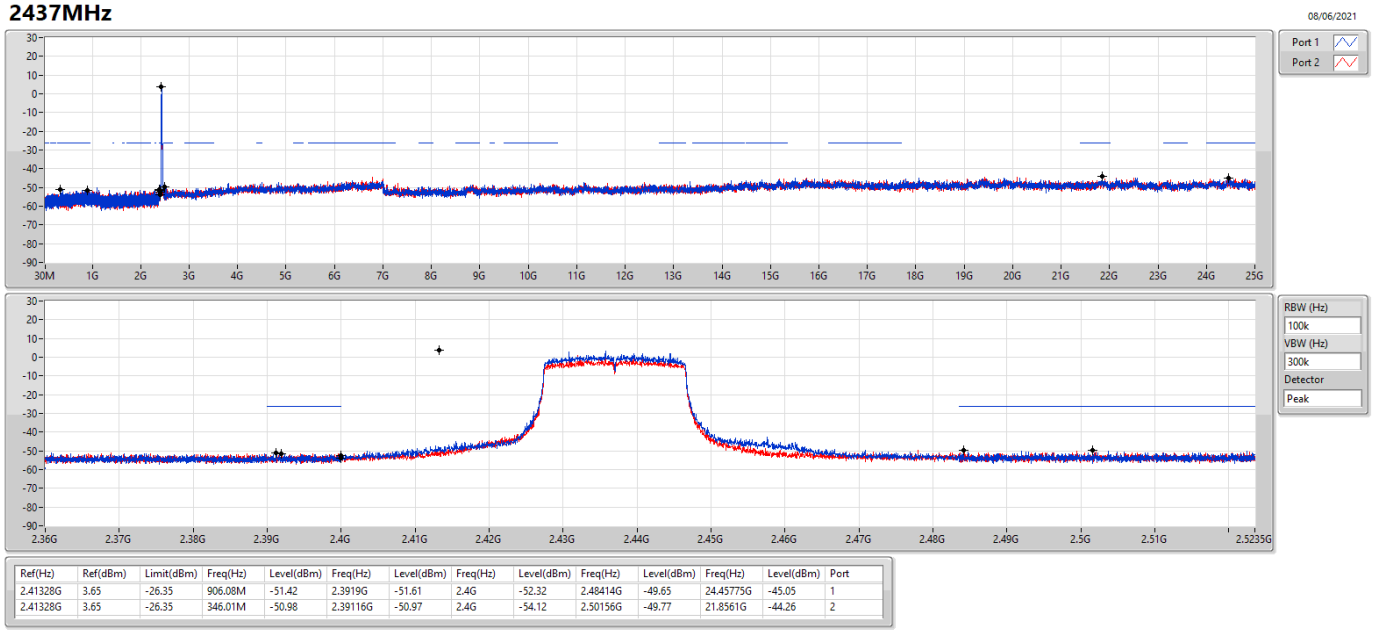
2412MHz



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
2.41328G	3.65	-26.35	857.44M	-51.47	2.39998G	-37.30	2.4G	-39.98	2.51696G	-50.26	23.48003G	-44.06	1
2.41328G	3.65	-26.35	2.17564G	-51.15	2.39982G	-40.41	2.4G	-41.90	2.4848G	-50.01	15.19744G	-43.93	2

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE NdB**

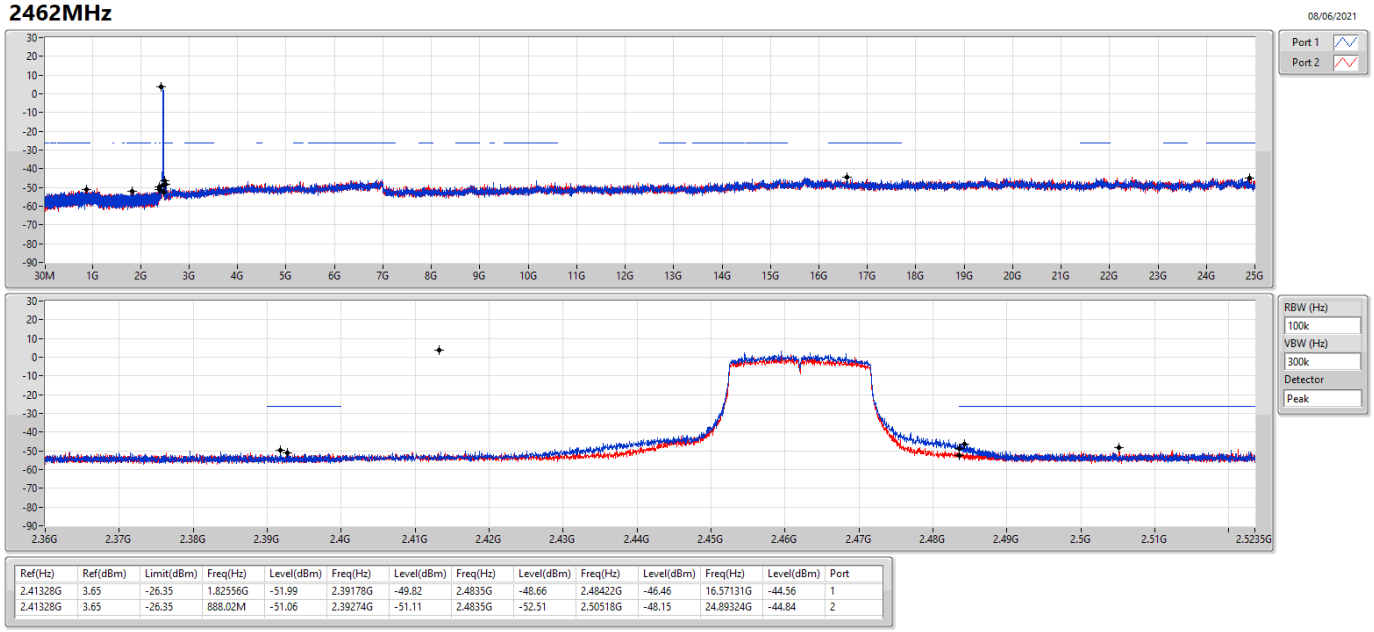
2437MHz



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
2.41328G	3.65	-26.35	906.08M	-51.42	2.3919G	-51.61	2.4G	-52.32	2.48414G	-49.65	24.45775G	-45.05	1
2.41328G	3.65	-26.35	346.01M	-50.98	2.39116G	-50.97	2.4G	-54.12	2.50156G	-49.77	21.8561G	-44.26	2

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE NdB**

2462MHz

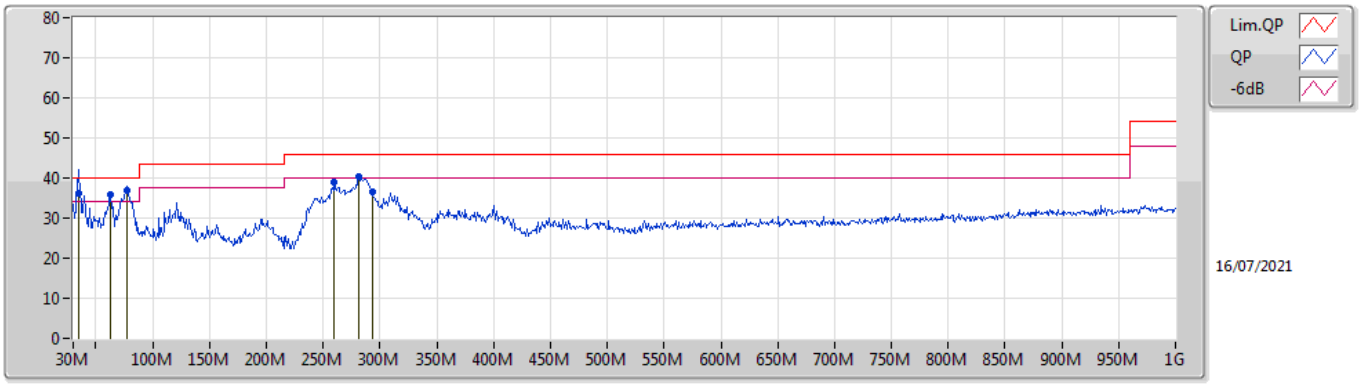


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41328G	3.65	-26.35	1.82556G	-51.99	2.39178G	-49.82	2.4835G	-48.66	2.48422G	-46.46	16.57131G	-44.56	1
2.41328G	3.65	-26.35	888.02M	-51.06	2.39274G	-51.11	2.4835G	-52.51	2.50518G	-48.15	24.89324G	-44.84	2

Summary

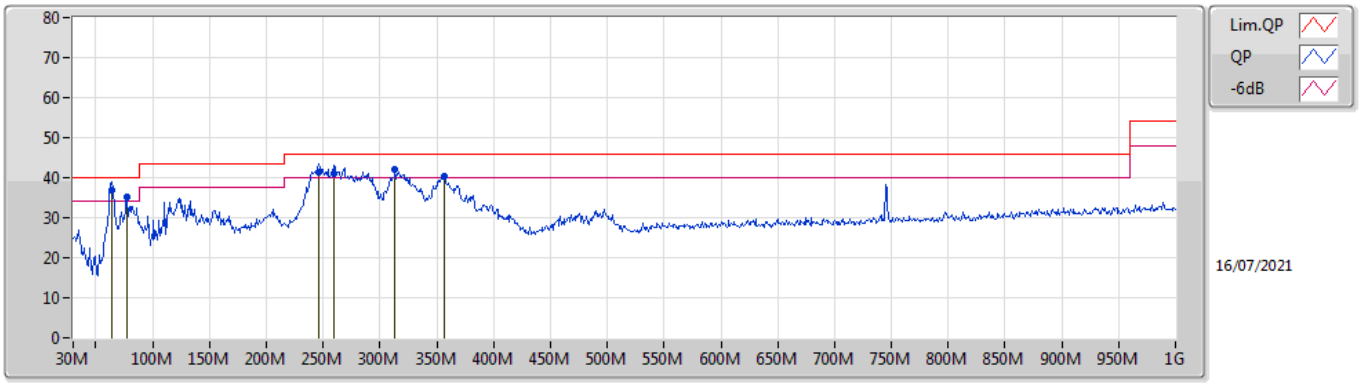
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	QP	63.95M	36.82	40.00	-3.18	Horizontal

Mode 4



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)
QP	34.85M	36.23	40.00	-3.77	-9.58	3	Vertical	240	1.00	"	45.81	21.51	0.50	31.59
PK	62.98M	35.94	40.00	-4.06	-18.93	3	Vertical	240	1.00	-	54.87	12.13	0.80	31.86
QP	77.53M	36.75	40.00	-3.25	-18.55	3	Vertical	194	1.50	"Worst"	55.30	12.46	0.90	31.91
PK	259.89M	39.07	46.00	-6.93	-10.53	3	Vertical	219	1.50	-	49.60	19.53	1.96	32.02
PK	281.23M	40.29	46.00	-5.71	-11.28	3	Vertical	251	2.00	-	51.57	18.68	2.09	32.05
PK	292.87M	36.51	46.00	-9.49	-11.09	3	Vertical	226	1.00	-	47.60	18.82	2.16	32.07

Mode 4



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)
QP	63.95M	36.82	40.00	-3.18	-18.96	3	Horizontal	126	3.00	"Worst"	55.78	12.10	0.80	31.86
PK	77.53M	35.09	40.00	-4.91	-18.55	3	Horizontal	306	2.00	-	53.64	12.46	0.90	31.91
QP	246.31M	41.30	46.00	-4.70	-12.40	3	Horizontal	225	1.00	-	53.70	17.72	1.89	32.01
QP	258.92M	41.19	46.00	-4.81	-10.68	3	Horizontal	212	1.00	-	51.87	19.39	1.95	32.02
PK	313.24M	42.14	46.00	-3.86	-10.47	3	Horizontal	324	1.00	-	52.61	19.37	2.25	32.09
PK	356.89M	40.39	46.00	-5.61	-9.11	3	Horizontal	140	1.00	-	49.50	20.58	2.43	32.12

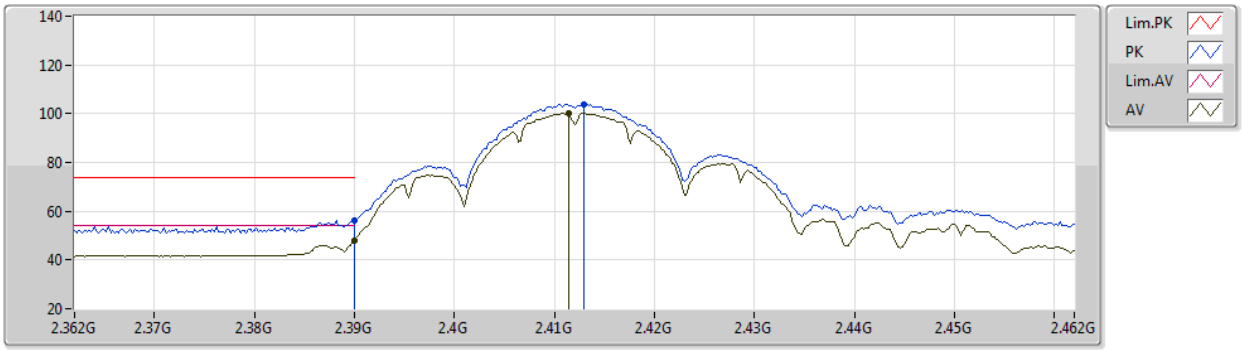
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	4.82402G	53.98	54.00	-0.02	3	Horizontal	207	1.00	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

02/06/2021



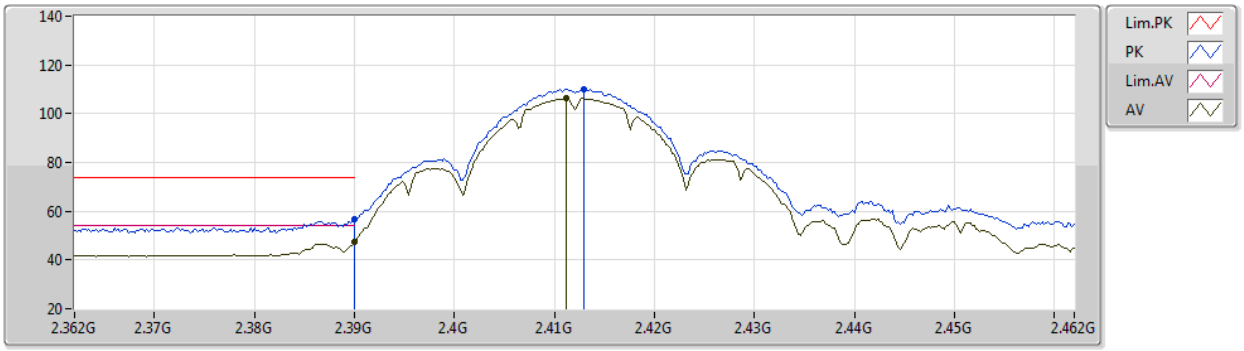
EUT X_2TX
Setting 19.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	56.21	74.00	-17.79	26.64	3	Vertical	26	1.80	-	27.38	2.19	-
AV	2.39G	48.17	54.00	-5.83	18.60	3	Vertical	26	1.80	-	27.38	2.19	-
PK	2.413G	103.97	Inf	-Inf	74.33	3	Vertical	26	1.80	-	27.43	2.21	-
AV	2.4114G	100.32	Inf	-Inf	70.69	3	Vertical	26	1.80	-	27.42	2.21	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

02/06/2021



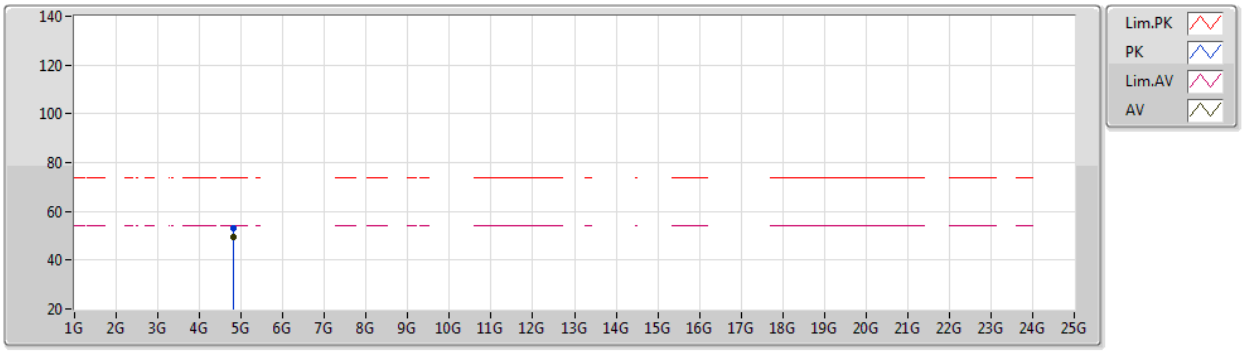
EUT X_2TX
Setting 19.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	56.55	74.00	-17.45	26.98	3	Horizontal	227	1.00	-	27.38	2.19	-
AV	2.39G	47.38	54.00	-6.62	17.81	3	Horizontal	227	1.00	-	27.38	2.19	-
PK	2.413G	110.14	Inf	-Inf	80.50	3	Horizontal	227	1.00	-	27.43	2.21	-
AV	2.4112G	106.34	Inf	-Inf	76.71	3	Horizontal	227	1.00	-	27.42	2.21	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

02/06/2021



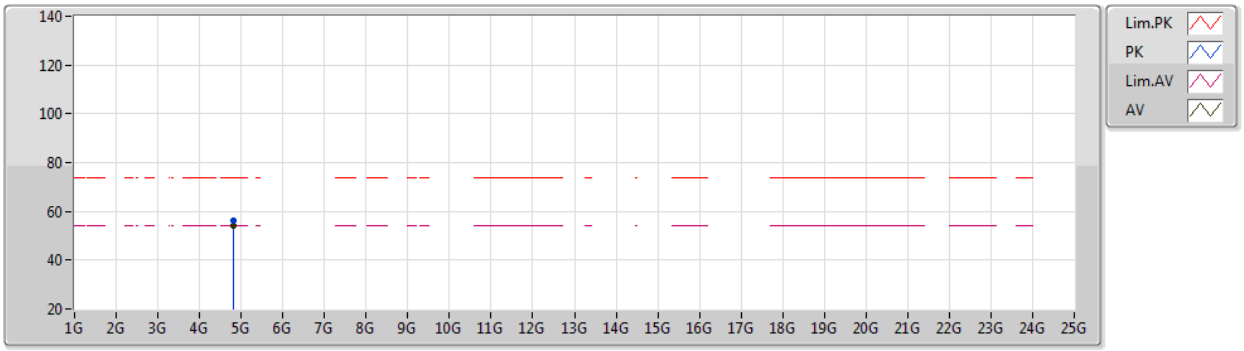
EUT X_2TX
Setting 19.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82394G	53.28	74.00	-20.72	49.01	3	Vertical	59	1.04	-	32.24	5.01	32.98
AV	4.824G	49.70	54.00	-4.30	45.43	3	Vertical	59	1.04	-	32.24	5.01	32.98

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

02/06/2021



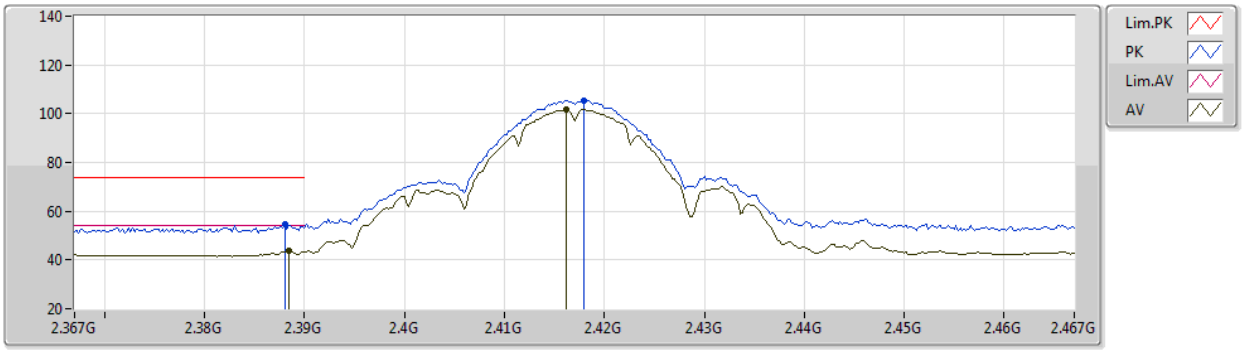
EUT X_2TX
Setting 19.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82408G	56.44	74.00	-17.56	52.17	3	Horizontal	207	1.00	-	32.24	5.01	32.98
AV	4.82402G	53.98	54.00	-0.02	49.71	3	Horizontal	207	1.00	-	32.24	5.01	32.98

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

02/06/2021



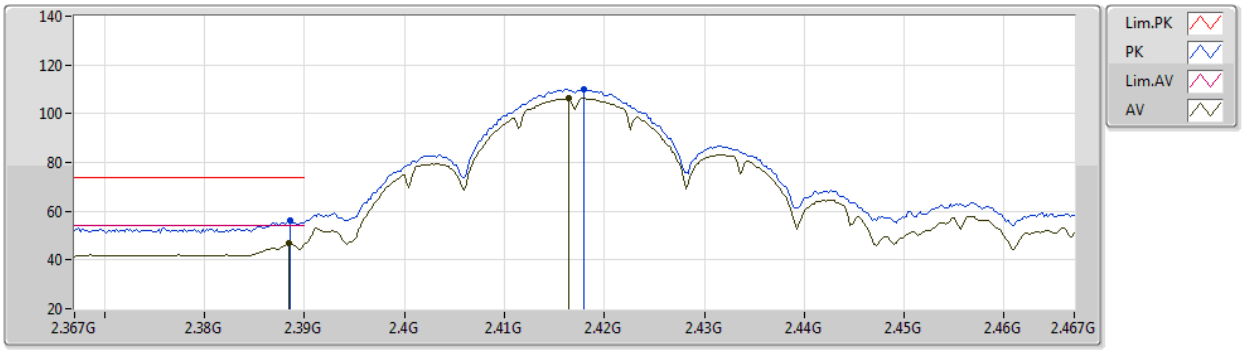
EUT X_2TX
Setting 20
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.388G	54.86	74.00	-19.14	25.29	3	Vertical	179	1.34	-	27.38	2.19	-
AV	2.3884G	43.61	54.00	-10.39	14.04	3	Vertical	179	1.34	-	27.38	2.19	-
PK	2.418G	105.52	Inf	-Inf	75.86	3	Vertical	179	1.34	-	27.44	2.22	-
AV	2.4162G	101.83	Inf	-Inf	72.18	3	Vertical	179	1.34	-	27.43	2.22	-

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

02/06/2021



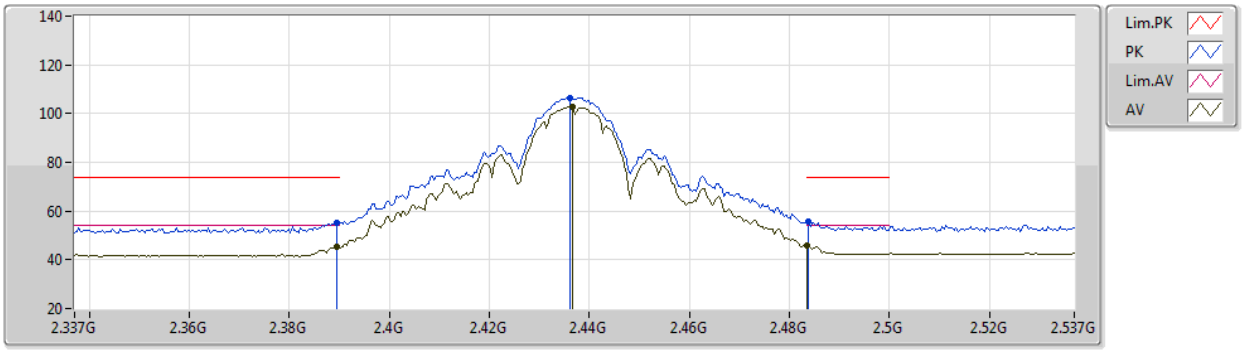
EUT X_2TX
Setting 20
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3886G	56.27	74.00	-17.73	26.70	3	Horizontal	244	1.38	-	27.38	2.19	-
AV	2.3884G	46.65	54.00	-7.35	17.08	3	Horizontal	244	1.38	-	27.38	2.19	-
PK	2.418G	110.13	Inf	-Inf	80.47	3	Horizontal	244	1.38	-	27.44	2.22	-
AV	2.4164G	106.45	Inf	-Inf	76.80	3	Horizontal	244	1.38	-	27.43	2.22	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

02/06/2021



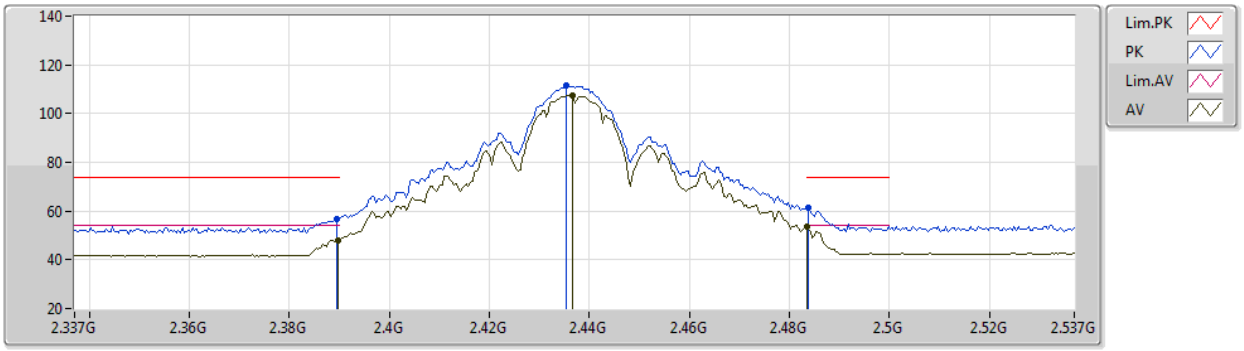
EUT X_2TX
Setting 25
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3894G	55.11	74.00	-18.89	25.54	3	Vertical	344	2.89	-	27.38	2.19	-
AV	2.3894G	45.21	54.00	-8.79	15.64	3	Vertical	344	2.89	-	27.38	2.19	-
PK	2.4362G	106.62	Inf	-Inf	76.91	3	Vertical	344	2.89	-	27.47	2.24	-
AV	2.4366G	102.84	Inf	-Inf	73.13	3	Vertical	344	2.89	-	27.47	2.24	-
PK	2.4838G	55.58	74.00	-18.42	25.60	3	Vertical	344	2.89	-	27.70	2.28	-
AV	2.4835G	45.87	54.00	-8.13	15.89	3	Vertical	344	2.89	-	27.70	2.28	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

02/06/2021



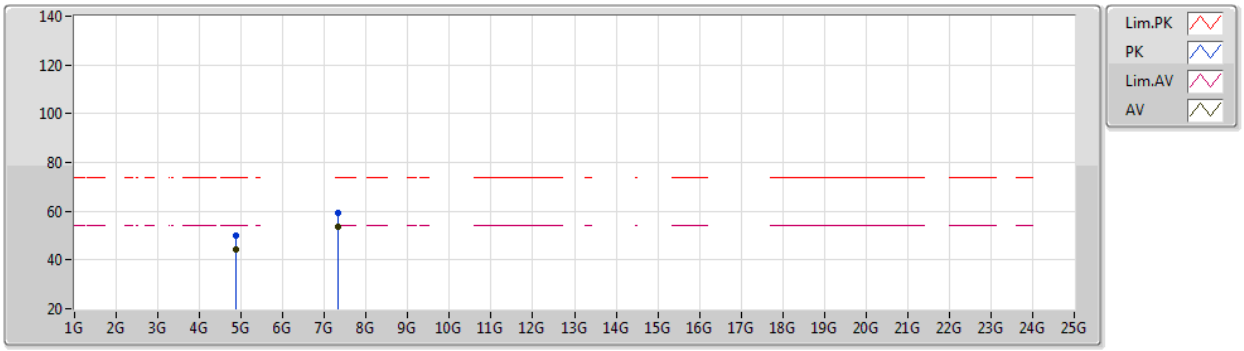
EUT X_2TX
Setting 25
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3894G	56.62	74.00	-17.38	27.05	3	Horizontal	178	1.00	-	27.38	2.19	-
AV	2.3898G	48.01	54.00	-5.99	18.44	3	Horizontal	178	1.00	-	27.38	2.19	-
PK	2.4354G	111.41	Inf	-Inf	81.70	3	Horizontal	178	1.00	-	27.47	2.24	-
AV	2.4366G	107.59	Inf	-Inf	77.88	3	Horizontal	178	1.00	-	27.47	2.24	-
PK	2.4838G	61.53	74.00	-12.47	31.55	3	Horizontal	178	1.00	-	27.70	2.28	-
AV	2.4835G	53.41	54.00	-0.59	23.43	3	Horizontal	178	1.00	-	27.70	2.28	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

02/06/2021



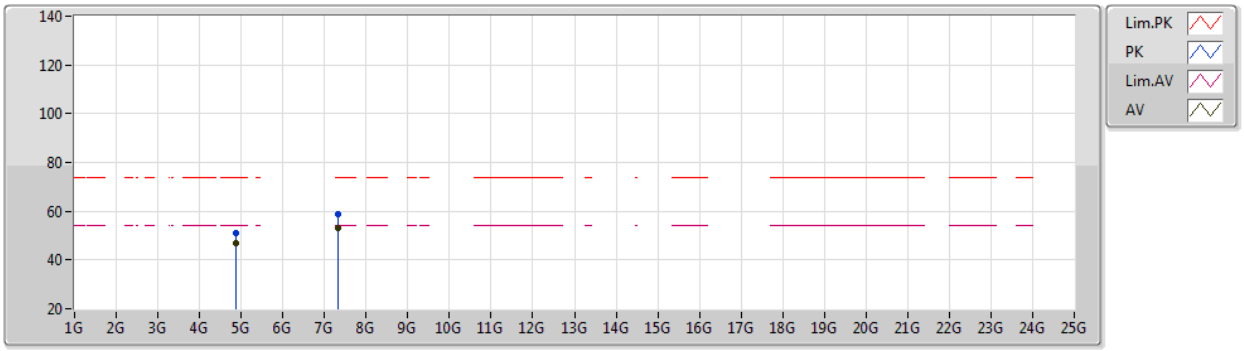
EUT X_2TX
Setting 25
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87408G	49.91	74.00	-24.09	45.40	3	Vertical	119	1.60	-	32.45	5.04	32.98
AV	4.87406G	44.41	54.00	-9.59	39.90	3	Vertical	119	1.60	-	32.45	5.04	32.98
PK	7.31204G	59.22	74.00	-14.78	48.84	3	Vertical	84	1.02	-	37.15	6.31	33.08
AV	7.31048G	53.65	54.00	-0.35	43.28	3	Vertical	84	1.02	-	37.14	6.31	33.08

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

02/06/2021



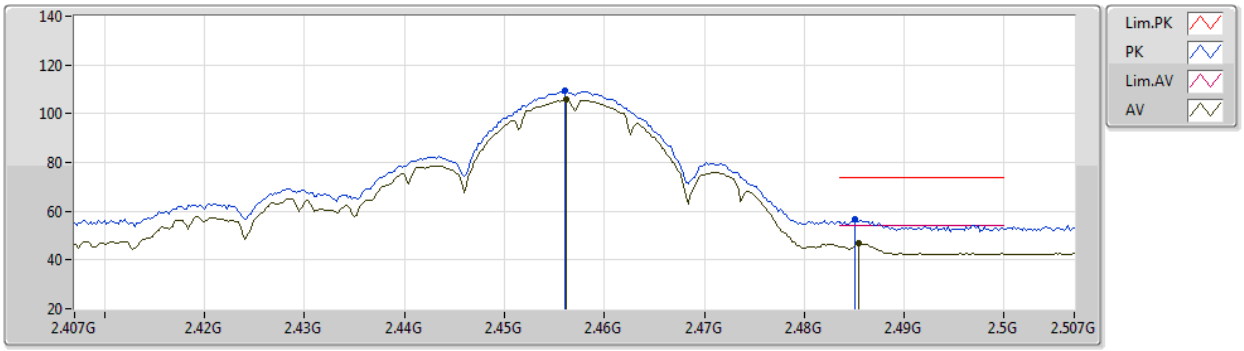
EUT X_2TX
Setting 25
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87404G	51.02	74.00	-22.98	46.51	3	Horizontal	228	1.24	-	32.45	5.04	32.98
AV	4.87408G	46.75	54.00	-7.25	42.24	3	Horizontal	228	1.24	-	32.45	5.04	32.98
PK	7.312G	58.82	74.00	-15.18	48.44	3	Horizontal	240	1.04	-	37.15	6.31	33.08
AV	7.31036G	53.20	54.00	-0.80	42.83	3	Horizontal	240	1.04	-	37.14	6.31	33.08

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

02/06/2021



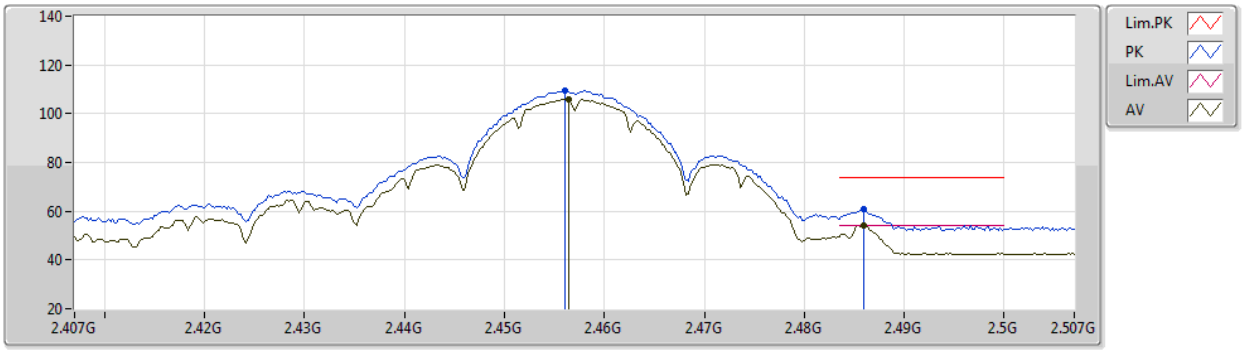
EUT X_2TX
Setting 20
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.456G	109.31	Inf	-Inf	79.51	3	Vertical	281	2.84	-	27.54	2.26	-
AV	2.4562G	105.79	Inf	-Inf	75.99	3	Vertical	281	2.84	-	27.54	2.26	-
PK	2.485G	56.75	74.00	-17.25	26.75	3	Vertical	281	2.84	-	27.71	2.29	-
AV	2.4854G	46.75	54.00	-7.25	16.75	3	Vertical	281	2.84	-	27.71	2.29	-

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

02/06/2021



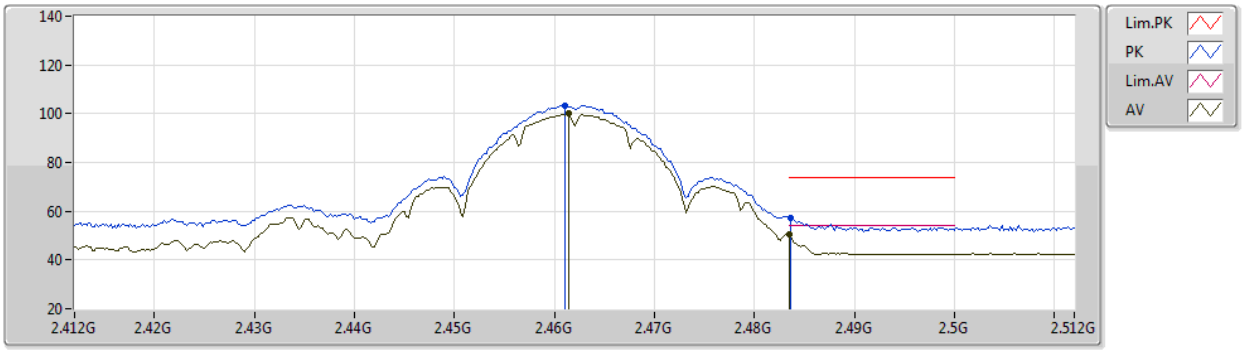
EUT X_2TX
Setting 20
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.456G	109.59	Inf	-Inf	79.79	3	Horizontal	243	1.35	-	27.54	2.26	-
AV	2.4564G	106.10	Inf	-Inf	76.30	3	Horizontal	243	1.35	-	27.54	2.26	-
PK	2.486G	60.82	74.00	-13.18	30.81	3	Horizontal	243	1.35	-	27.72	2.29	-
AV	2.486G	53.93	54.00	-0.07	23.92	3	Horizontal	243	1.35	-	27.72	2.29	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

02/06/2021



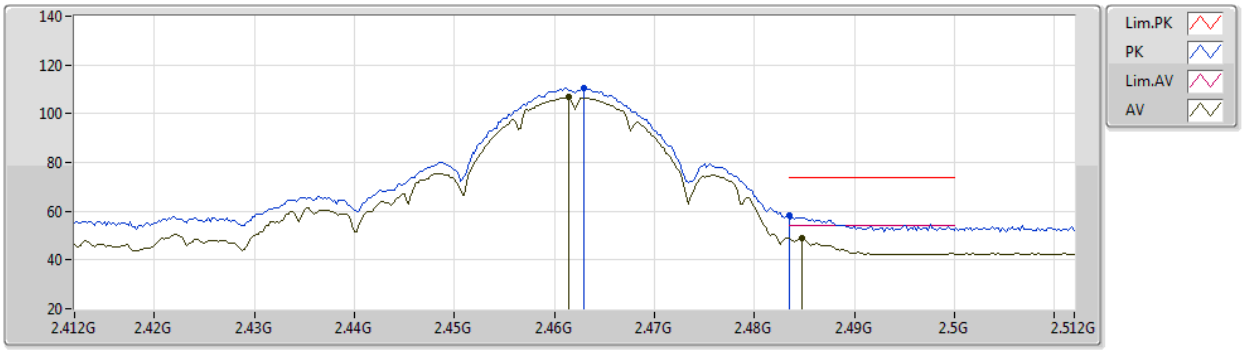
EUT X_2TX
Setting 20
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.461G	103.50	Inf	-Inf	73.67	3	Vertical	37	1.91	-	27.57	2.26	-
AV	2.4614G	99.95	Inf	-Inf	70.12	3	Vertical	37	1.91	-	27.57	2.26	-
PK	2.4836G	57.31	74.00	-16.69	27.33	3	Vertical	37	1.91	-	27.70	2.28	-
AV	2.4835G	50.58	54.00	-3.42	20.60	3	Vertical	37	1.91	-	27.70	2.28	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

02/06/2021



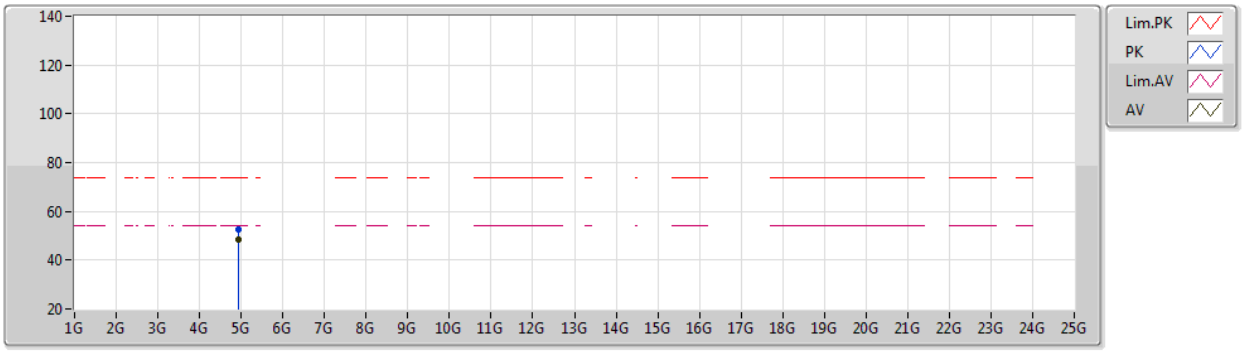
EUT X_2TX
Setting 20
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.463G	110.36	Inf	-Inf	80.52	3	Horizontal	178	1.16	-	27.58	2.26	-
AV	2.4614G	106.83	Inf	-Inf	77.00	3	Horizontal	178	1.16	-	27.57	2.26	-
PK	2.4835G	58.05	74.00	-15.95	28.07	3	Horizontal	178	1.16	-	27.70	2.28	-
AV	2.4848G	49.20	54.00	-4.80	19.21	3	Horizontal	178	1.16	-	27.71	2.28	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

02/06/2021



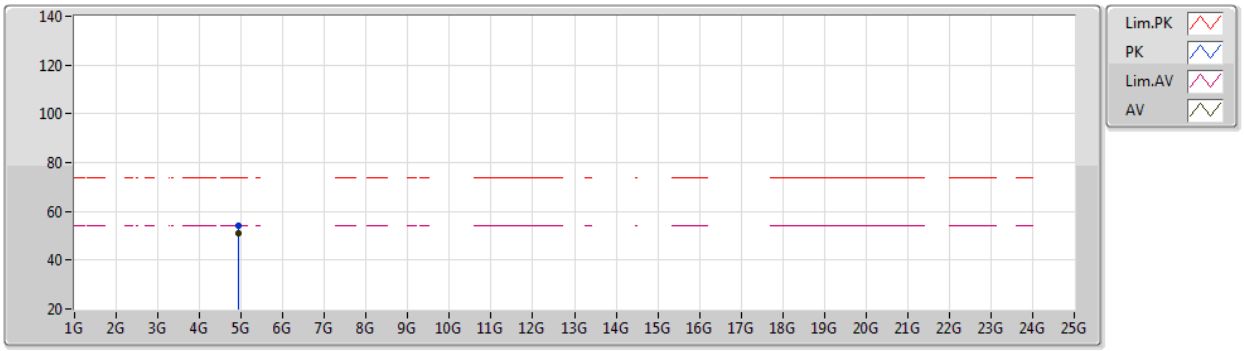
EUT X_2TX
Setting 20
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92388G	52.39	74.00	-21.61	47.66	3	Vertical	82	1.14	-	32.64	5.06	32.97
AV	4.924G	48.31	54.00	-5.69	43.58	3	Vertical	82	1.14	-	32.64	5.06	32.97

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

02/06/2021



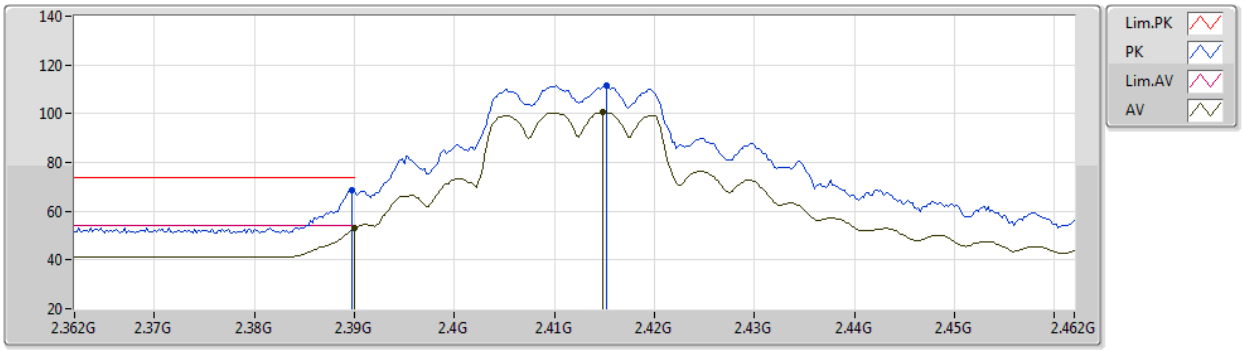
EUT X_2TX
Setting 20
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92396G	54.34	74.00	-19.66	49.61	3	Horizontal	216	1.00	-	32.64	5.06	32.97
AV	4.924G	51.16	54.00	-2.84	46.43	3	Horizontal	216	1.00	-	32.64	5.06	32.97

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

02/06/2021



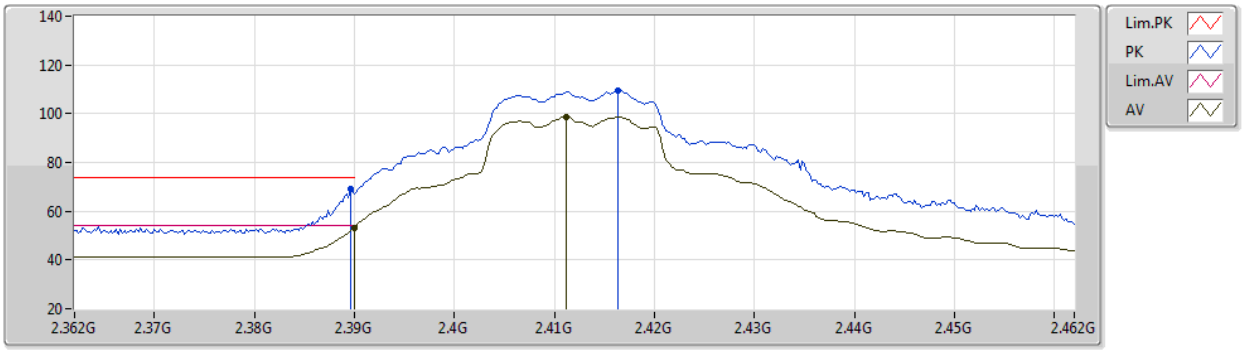
EUT X_2TX
Setting 18.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	68.84	74.00	-5.16	39.27	3	Vertical	293	1.24	-	27.38	2.19	-
AV	2.39G	52.86	54.00	-1.14	23.29	3	Vertical	293	1.24	-	27.38	2.19	-
PK	2.4152G	111.66	Inf	-Inf	82.01	3	Vertical	293	1.24	-	27.43	2.22	-
AV	2.4148G	100.87	Inf	-Inf	71.23	3	Vertical	293	1.24	-	27.43	2.21	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

02/06/2021



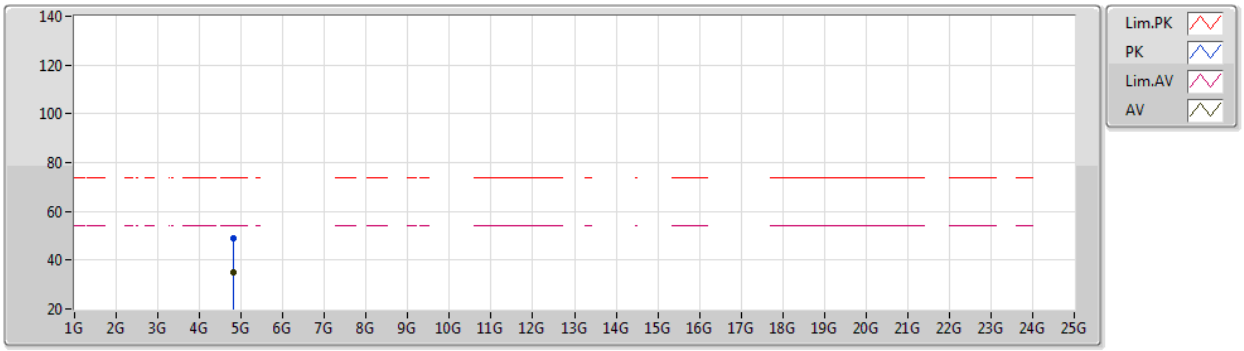
EUT X_2TX
Setting 18.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3896G	68.96	74.00	-5.04	39.39	3	Horizontal	217	1.68	-	27.38	2.19	-
AV	2.39G	53.30	54.00	-0.70	23.73	3	Horizontal	217	1.68	-	27.38	2.19	-
PK	2.4164G	109.35	Inf	-Inf	79.70	3	Horizontal	217	1.68	-	27.43	2.22	-
AV	2.4112G	98.87	Inf	-Inf	69.24	3	Horizontal	217	1.68	-	27.42	2.21	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

02/06/2021



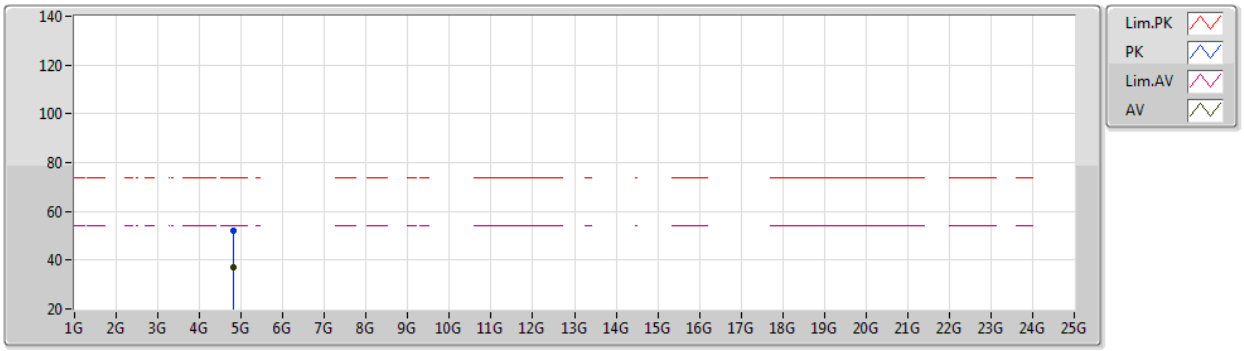
EUT X_2TX
Setting 18.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82052G	48.93	74.00	-25.07	44.69	3	Vertical	80	1.80	-	32.22	5.01	32.99
AV	4.82382G	34.84	54.00	-19.16	30.57	3	Vertical	80	1.80	-	32.24	5.01	32.98

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

02/06/2021



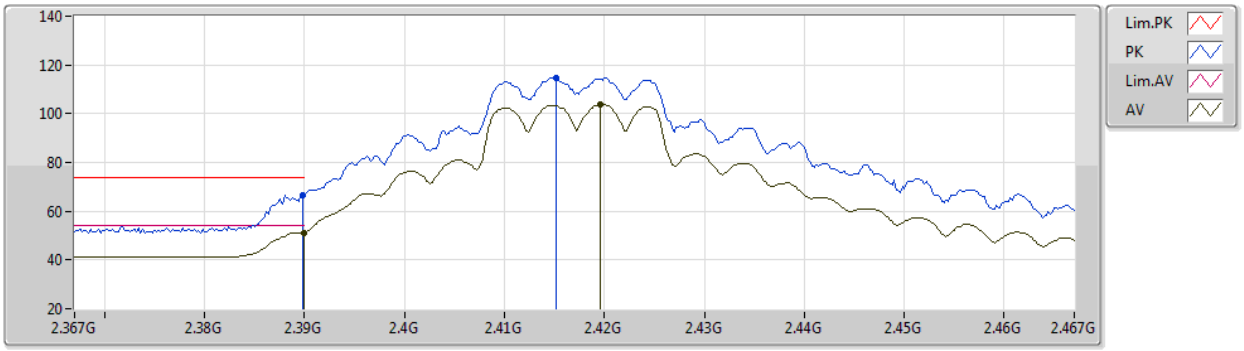
EUT X_2TX
Setting 18.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82022G	52.04	74.00	-21.96	47.80	3	Horizontal	204	1.00	-	32.22	5.01	32.99
AV	4.82412G	37.27	54.00	-16.73	33.00	3	Horizontal	204	1.00	-	32.24	5.01	32.98

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

02/06/2021



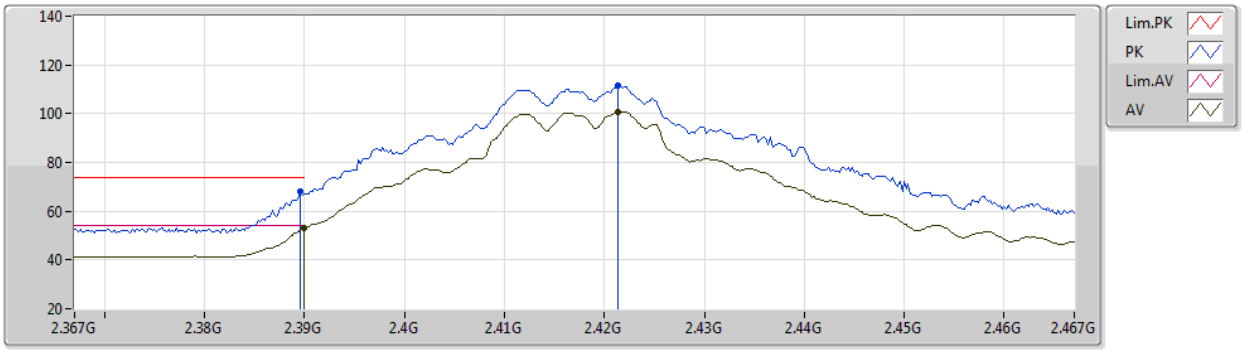
EUT X_2TX
Setting 20
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	66.67	74.00	-7.33	37.10	3	Vertical	287	1.31	-	27.38	2.19	-
AV	2.39G	51.24	54.00	-2.76	21.67	3	Vertical	287	1.31	-	27.38	2.19	-
PK	2.4152G	114.85	Inf	-Inf	85.20	3	Vertical	287	1.31	-	27.43	2.22	-
AV	2.4196G	103.93	Inf	-Inf	74.27	3	Vertical	287	1.31	-	27.44	2.22	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

02/06/2021



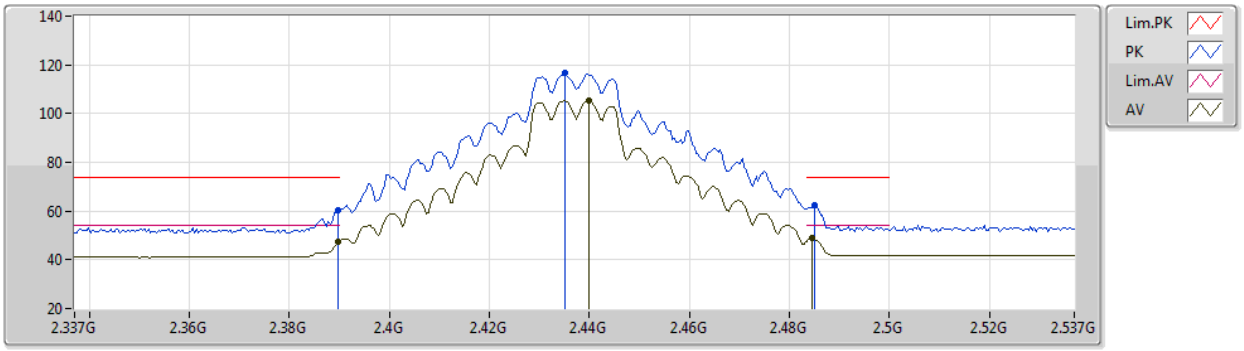
EUT X_2TX
Setting 20
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3896G	68.01	74.00	-5.99	38.44	3	Horizontal	243	2.13	-	27.38	2.19	-
AV	2.39G	53.05	54.00	-0.95	23.48	3	Horizontal	243	2.13	-	27.38	2.19	-
PK	2.4214G	111.49	Inf	-Inf	81.83	3	Horizontal	243	2.13	-	27.44	2.22	-
AV	2.4214G	100.73	Inf	-Inf	71.07	3	Horizontal	243	2.13	-	27.44	2.22	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

02/06/2021



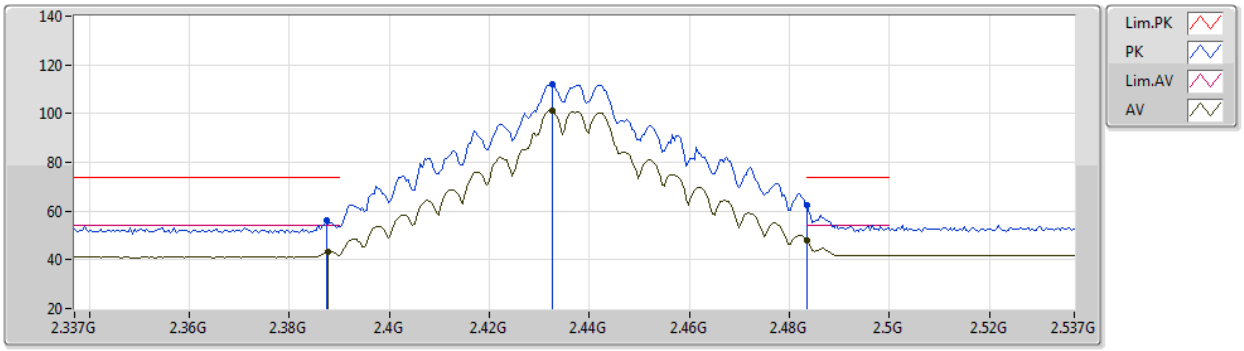
EUT X_2TX
Setting 25
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	60.45	74.00	-13.55	30.88	3	Vertical	285	1.00	-	27.38	2.19	-
AV	2.3898G	47.36	54.00	-6.64	17.79	3	Vertical	285	1.00	-	27.38	2.19	-
PK	2.435G	116.88	Inf	-Inf	87.17	3	Vertical	285	1.00	-	27.47	2.24	-
AV	2.4398G	105.18	Inf	-Inf	75.46	3	Vertical	285	1.00	-	27.48	2.24	-
PK	2.485G	62.63	74.00	-11.37	32.63	3	Vertical	285	1.00	-	27.71	2.29	-
AV	2.4846G	48.98	54.00	-5.02	18.99	3	Vertical	285	1.00	-	27.71	2.28	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

02/06/2021



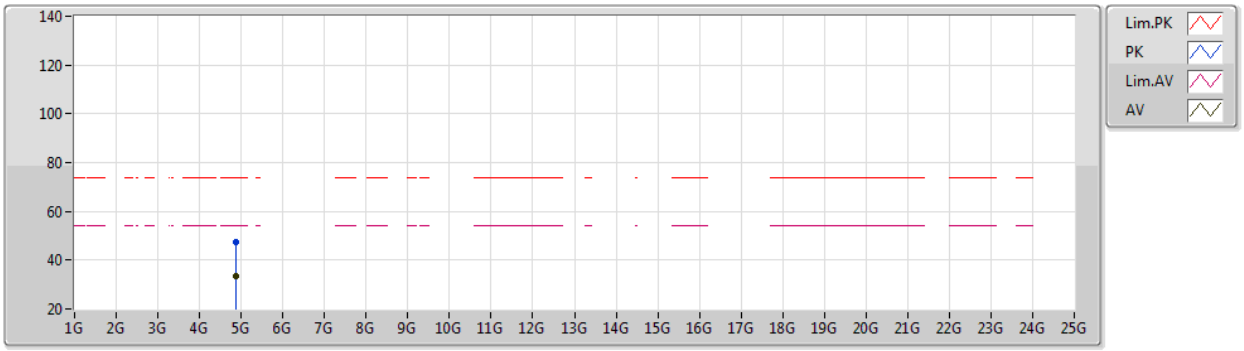
EUT X_2TX
Setting 25
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3874G	56.29	74.00	-17.71	26.73	3	Horizontal	229	1.36	-	27.37	2.19	-
AV	2.3878G	43.05	54.00	-10.95	13.48	3	Horizontal	229	1.36	-	27.38	2.19	-
PK	2.4326G	112.05	Inf	-Inf	82.35	3	Horizontal	229	1.36	-	27.47	2.23	-
AV	2.4326G	101.30	Inf	-Inf	71.60	3	Horizontal	229	1.36	-	27.47	2.23	-
PK	2.4835G	62.51	74.00	-11.49	32.53	3	Horizontal	229	1.36	-	27.70	2.28	-
AV	2.4835G	48.10	54.00	-5.90	18.12	3	Horizontal	229	1.36	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

02/06/2021



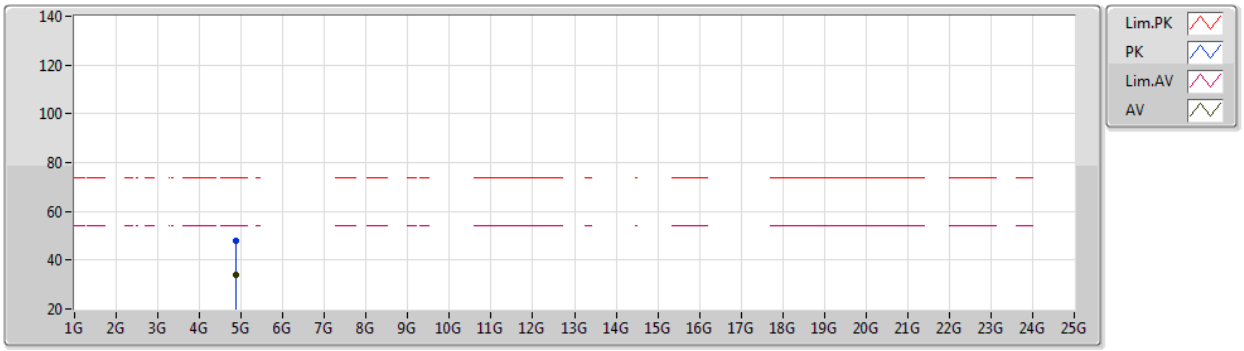
EUT X_2TX
Setting 25
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87786G	47.55	74.00	-26.45	43.03	3	Vertical	120	1.79	-	32.46	5.04	32.98
AV	4.87498G	33.38	54.00	-20.62	28.87	3	Vertical	120	1.79	-	32.45	5.04	32.98

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

02/06/2021



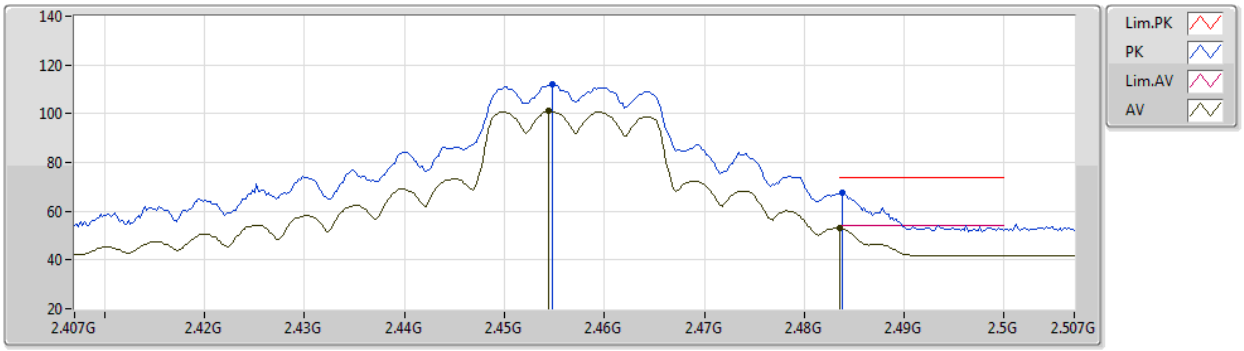
EUT X_2TX
Setting 25
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.86864G	48.03	74.00	-25.97	43.54	3	Horizontal	217	1.00	-	32.44	5.03	32.98
AV	4.87388G	34.16	54.00	-19.84	29.65	3	Horizontal	217	1.00	-	32.45	5.04	32.98

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

02/06/2021



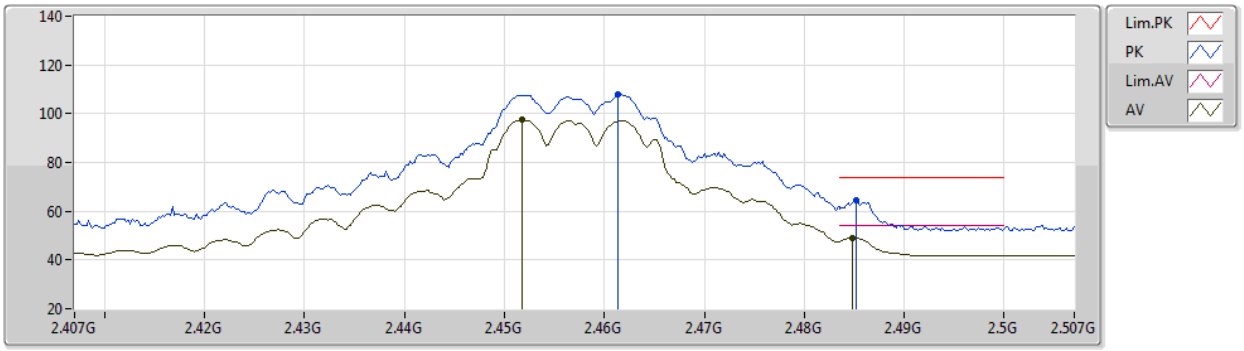
EUT X_2TX
Setting 17.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4548G	111.99	Inf	-Inf	82.21	3	Vertical	285	1.26	-	27.53	2.25	-
AV	2.4544G	101.13	Inf	-Inf	71.35	3	Vertical	285	1.26	-	27.53	2.25	-
PK	2.4838G	67.61	74.00	-6.39	37.63	3	Vertical	285	1.26	-	27.70	2.28	-
AV	2.4835G	52.91	54.00	-1.09	22.93	3	Vertical	285	1.26	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

02/06/2021



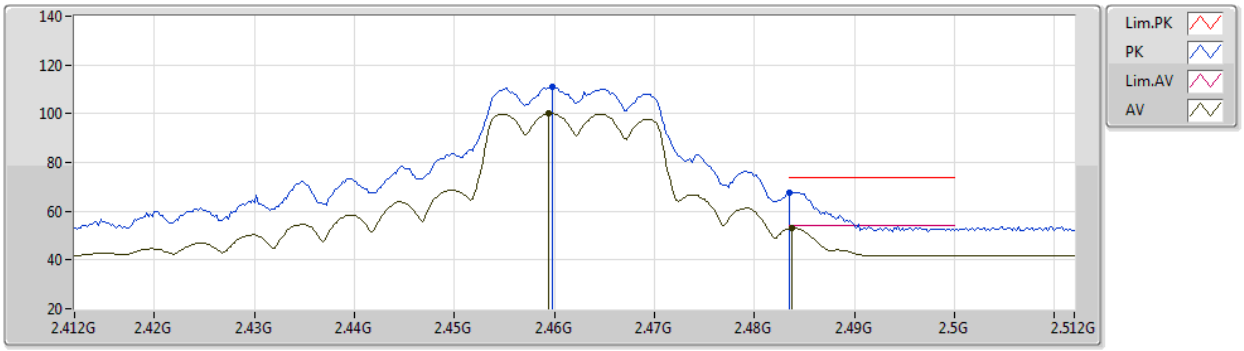
EUT X_2TX
Setting 17.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4614G	107.83	Inf	-Inf	78.00	3	Horizontal	244	1.80	-	27.57	2.26	-
AV	2.4518G	97.51	Inf	-Inf	67.75	3	Horizontal	244	1.80	-	27.51	2.25	-
PK	2.4852G	64.23	74.00	-9.77	34.23	3	Horizontal	244	1.80	-	27.71	2.29	-
AV	2.4848G	48.98	54.00	-5.02	18.99	3	Horizontal	244	1.80	-	27.71	2.28	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

02/06/2021



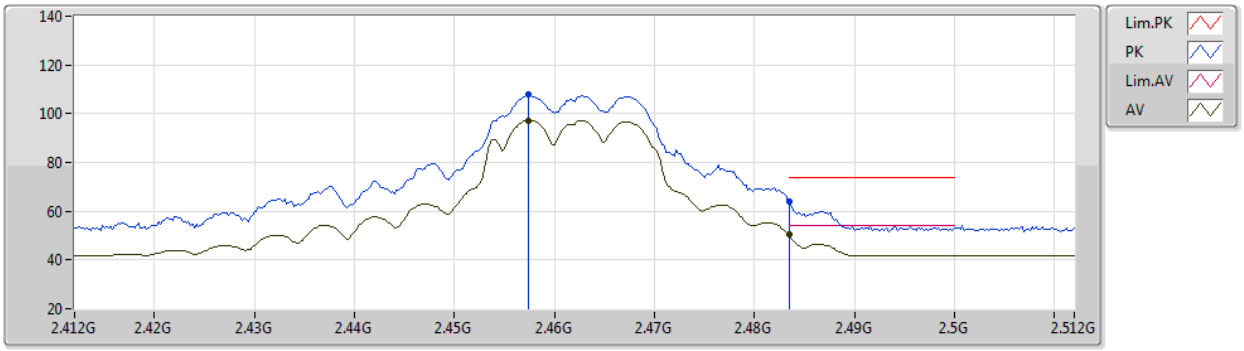
EUT X_2TX
Setting 17
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4598G	111.28	Inf	-Inf	81.46	3	Vertical	283	1.28	-	27.56	2.26	-
AV	2.4594G	100.31	Inf	-Inf	70.49	3	Vertical	283	1.28	-	27.56	2.26	-
PK	2.4835G	67.70	74.00	-6.30	37.72	3	Vertical	283	1.28	-	27.70	2.28	-
AV	2.4838G	53.22	54.00	-0.78	23.24	3	Vertical	283	1.28	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

02/06/2021



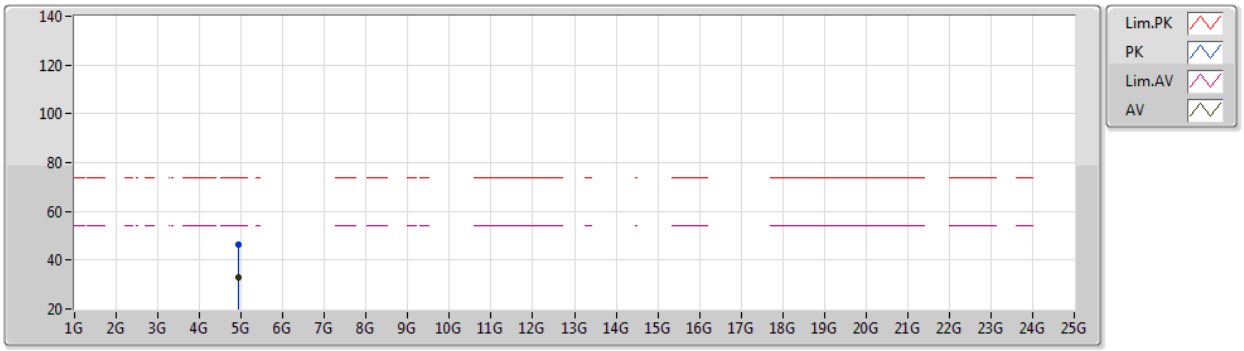
EUT X_2TX
Setting 17
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4574G	107.75	Inf	-Inf	77.95	3	Horizontal	228	1.08	-	27.54	2.26	-
AV	2.4574G	97.29	Inf	-Inf	67.49	3	Horizontal	228	1.08	-	27.54	2.26	-
PK	2.4835G	64.12	74.00	-9.88	34.14	3	Horizontal	228	1.08	-	27.70	2.28	-
AV	2.4835G	50.46	54.00	-3.54	20.48	3	Horizontal	228	1.08	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

02/06/2021



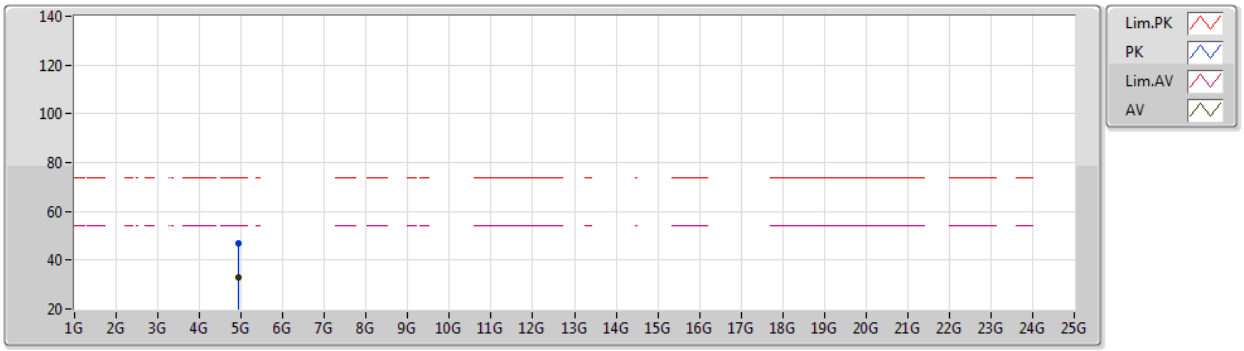
EUT X_2TX
Setting 17
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92208G	46.47	74.00	-27.53	41.75	3	Vertical	19	1.27	-	32.63	5.06	32.97
AV	4.92708G	32.70	54.00	-21.30	27.95	3	Vertical	19	1.27	-	32.66	5.06	32.97

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

02/06/2021



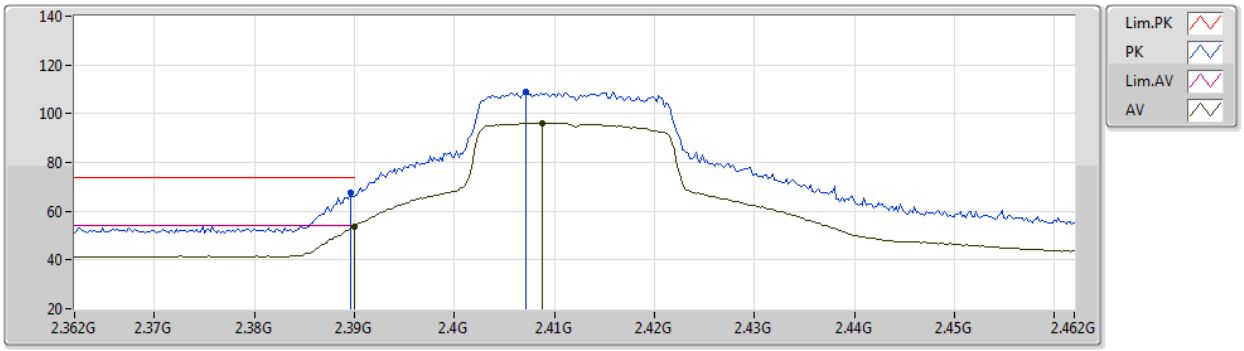
EUT X_2TX
Setting 17
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.9241G	46.79	74.00	-27.21	42.06	3	Horizontal	0	1.80	-	32.64	5.06	32.97
AV	4.92898G	32.87	54.00	-21.13	28.11	3	Horizontal	0	1.80	-	32.67	5.06	32.97

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

02/06/2021



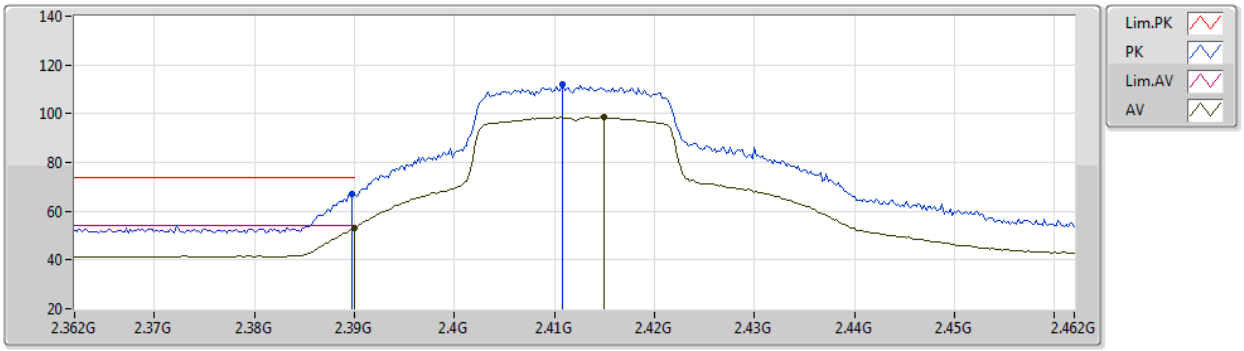
EUT X_2TX
Setting 17.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3896G	67.70	74.00	-6.30	38.13	3	Vertical	39	1.07	-	27.38	2.19	-
AV	2.39G	53.68	54.00	-0.32	24.11	3	Vertical	39	1.07	-	27.38	2.19	-
PK	2.4072G	108.87	Inf	-Inf	79.25	3	Vertical	39	1.07	-	27.41	2.21	-
AV	2.4088G	96.22	Inf	-Inf	66.59	3	Vertical	39	1.07	-	27.42	2.21	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

02/06/2021



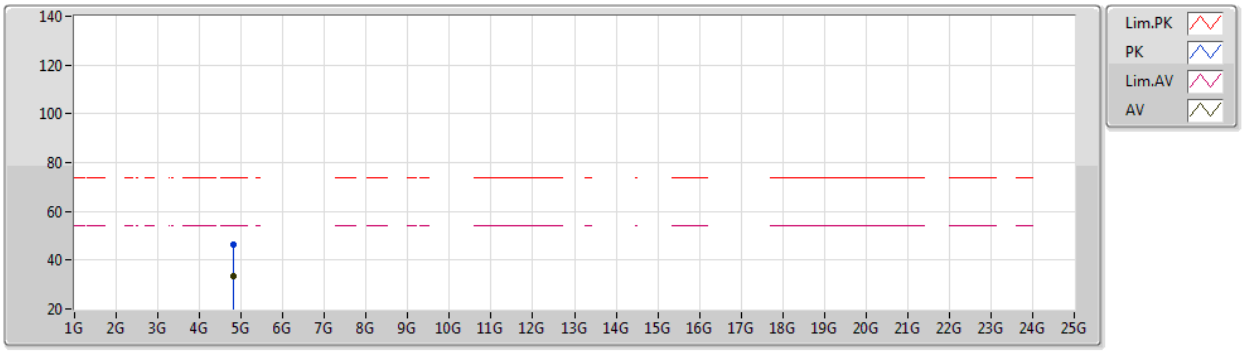
EUT X_2TX
Setting 17.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	67.19	74.00	-6.81	37.62	3	Horizontal	248	1.69	-	27.38	2.19	-
AV	2.39G	53.11	54.00	-0.89	23.54	3	Horizontal	248	1.69	-	27.38	2.19	-
PK	2.4108G	111.90	Inf	-Inf	82.27	3	Horizontal	248	1.69	-	27.42	2.21	-
AV	2.415G	98.46	Inf	-Inf	68.82	3	Horizontal	248	1.69	-	27.43	2.21	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

02/06/2021



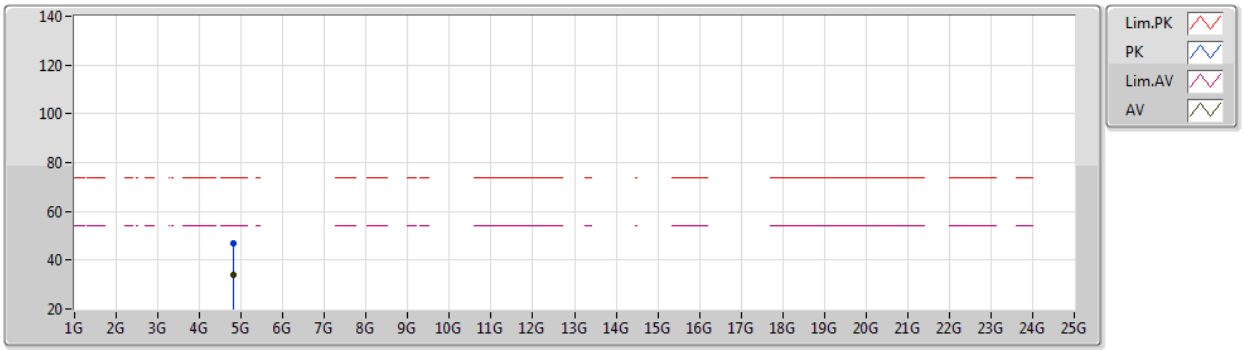
EUT X_2TX
Setting 17.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82388G	46.44	74.00	-27.56	42.17	3	Vertical	128	1.37	-	32.24	5.01	32.98
AV	4.82316G	33.47	54.00	-20.53	29.20	3	Vertical	128	1.37	-	32.24	5.01	32.98

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

02/06/2021



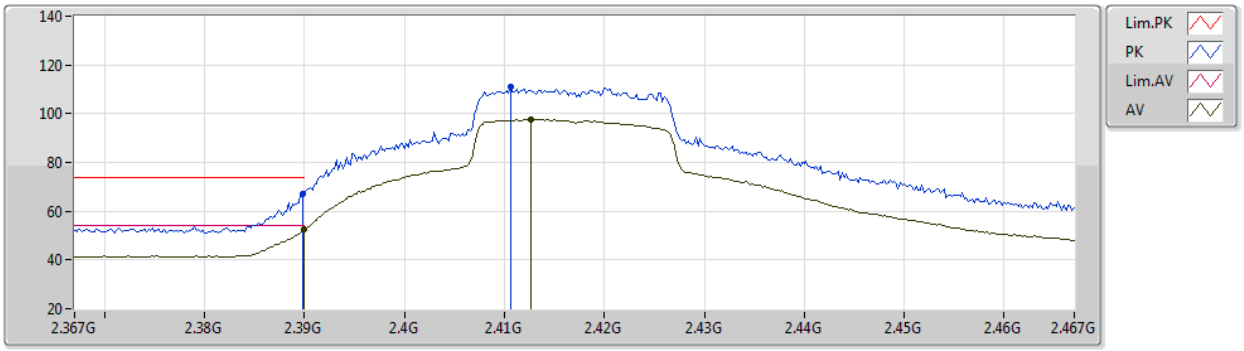
EUT X_2TX
Setting 17.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8192G	46.65	74.00	-27.35	42.41	3	Horizontal	0	1.80	-	32.22	5.01	32.99
AV	4.82622G	33.76	54.00	-20.24	29.47	3	Horizontal	0	1.80	-	32.26	5.01	32.98

802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

02/06/2021



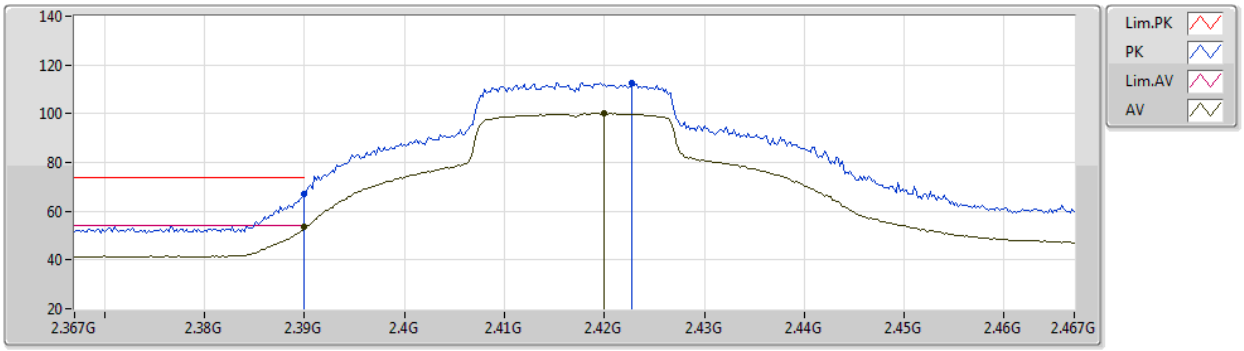
EUT X_2TX
Setting 19.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	67.24	74.00	-6.76	37.67	3	Vertical	37	1.07	-	27.38	2.19	-
AV	2.39G	52.33	54.00	-1.67	22.76	3	Vertical	37	1.07	-	27.38	2.19	-
PK	2.4106G	111.04	Inf	-Inf	81.41	3	Vertical	37	1.07	-	27.42	2.21	-
AV	2.4126G	97.57	Inf	-Inf	67.93	3	Vertical	37	1.07	-	27.43	2.21	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

02/06/2021



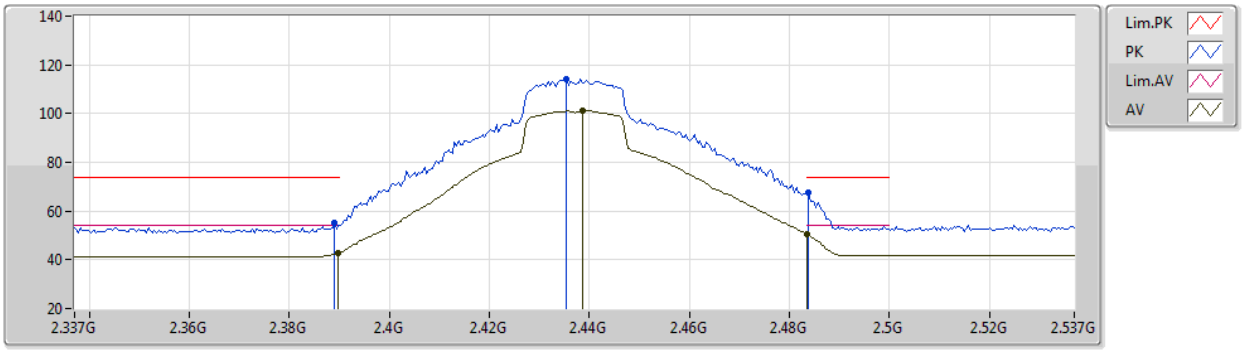
EUT X_2TX
Setting 19.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	67.12	74.00	-6.88	37.55	3	Horizontal	232	1.24	-	27.38	2.19	-
AV	2.39G	53.37	54.00	-0.63	23.80	3	Horizontal	232	1.24	-	27.38	2.19	-
PK	2.4228G	112.80	Inf	-Inf	83.13	3	Horizontal	232	1.24	-	27.45	2.22	-
AV	2.42G	100.23	Inf	-Inf	70.57	3	Horizontal	232	1.24	-	27.44	2.22	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

02/06/2021



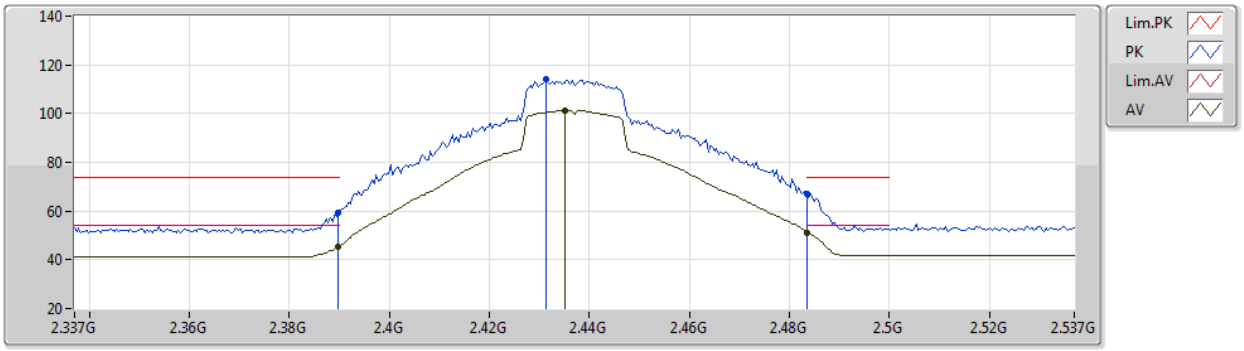
EUT X_2TX
Setting 25
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.389G	55.01	74.00	-18.99	25.44	3	Vertical	281	2.90	-	27.38	2.19	-
AV	2.3898G	42.62	54.00	-11.38	13.05	3	Vertical	281	2.90	-	27.38	2.19	-
PK	2.4354G	114.20	Inf	-Inf	84.49	3	Vertical	281	2.90	-	27.47	2.24	-
AV	2.4386G	101.21	Inf	-Inf	71.49	3	Vertical	281	2.90	-	27.48	2.24	-
PK	2.4838G	67.69	74.00	-6.31	37.71	3	Vertical	281	2.90	-	27.70	2.28	-
AV	2.4835G	50.26	54.00	-3.74	20.28	3	Vertical	281	2.90	-	27.70	2.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

02/06/2021



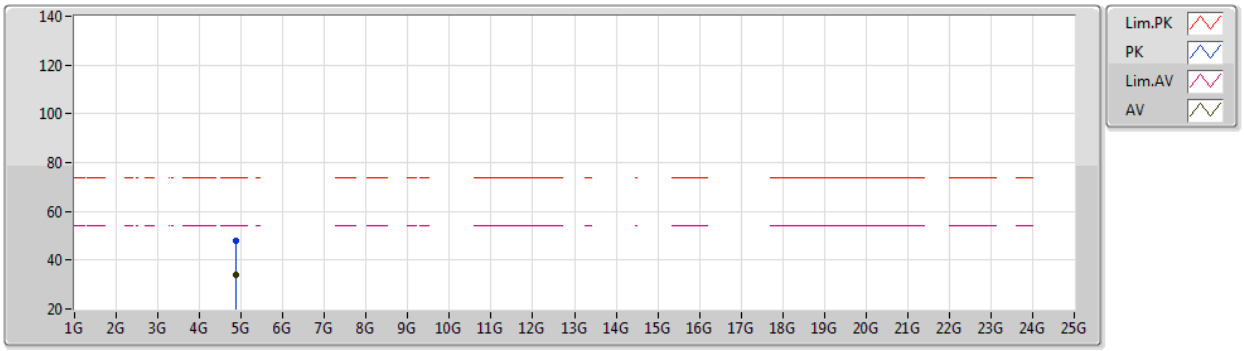
EUT X_2TX
Setting 25
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	59.14	74.00	-14.86	29.57	3	Horizontal	245	1.38	-	27.38	2.19	-
AV	2.3898G	45.38	54.00	-8.62	15.81	3	Horizontal	245	1.38	-	27.38	2.19	-
PK	2.4314G	113.93	Inf	-Inf	84.24	3	Horizontal	245	1.38	-	27.46	2.23	-
AV	2.435G	101.22	Inf	-Inf	71.51	3	Horizontal	245	1.38	-	27.47	2.24	-
PK	2.4835G	66.99	74.00	-7.01	37.01	3	Horizontal	245	1.38	-	27.70	2.28	-
AV	2.4835G	51.14	54.00	-2.86	21.16	3	Horizontal	245	1.38	-	27.70	2.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

02/06/2021



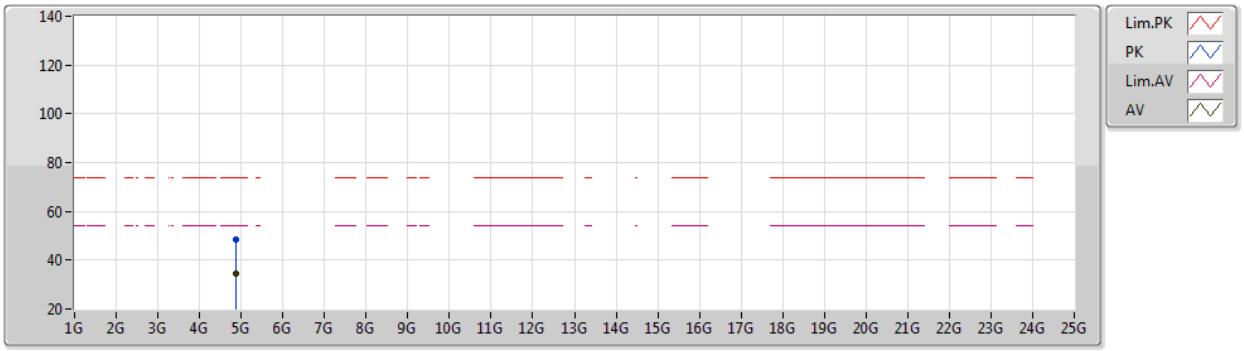
EUT X_2TX
Setting 25
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87064G	48.18	74.00	-25.82	43.68	3	Vertical	115	1.78	-	32.44	5.04	32.98
AV	4.8746G	34.01	54.00	-19.99	29.50	3	Vertical	115	1.78	-	32.45	5.04	32.98

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

02/06/2021



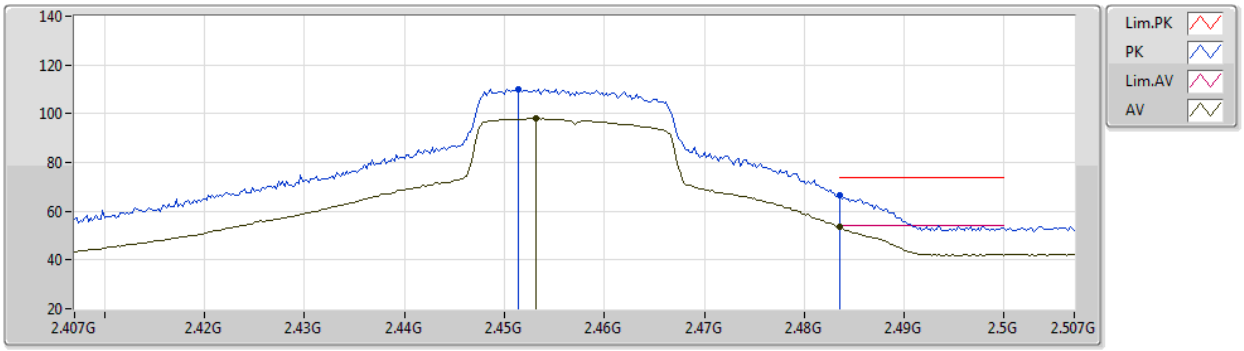
EUT X_2TX
Setting 25
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8816G	48.31	74.00	-25.69	43.79	3	Horizontal	237	2.75	-	32.46	5.04	32.98
AV	4.87556G	34.56	54.00	-19.44	30.05	3	Horizontal	237	2.75	-	32.45	5.04	32.98

802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

02/06/2021



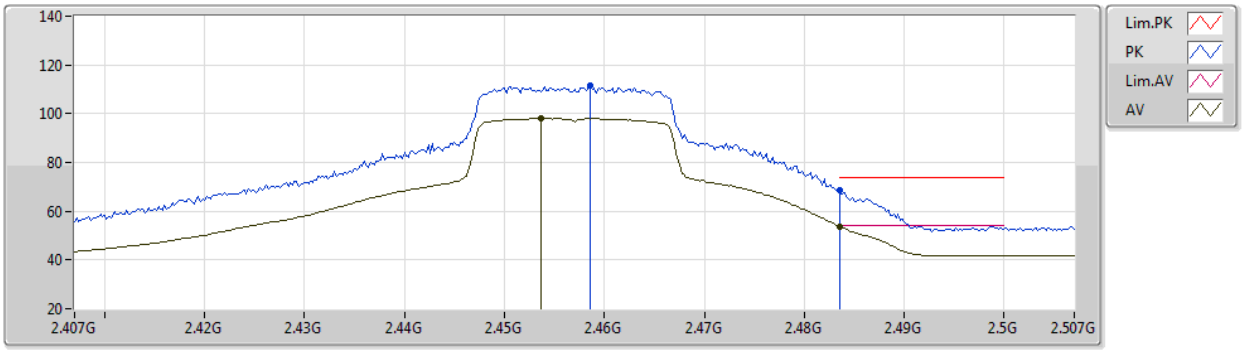
EUT X_2TX
Setting 17.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4514G	110.25	Inf	-Inf	80.49	3	Vertical	277	2.84	-	27.51	2.25	-
AV	2.4532G	98.02	Inf	-Inf	68.25	3	Vertical	277	2.84	-	27.52	2.25	-
PK	2.4836G	66.34	74.00	-7.66	36.36	3	Vertical	277	2.84	-	27.70	2.28	-
AV	2.4835G	53.39	54.00	-0.61	23.41	3	Vertical	277	2.84	-	27.70	2.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

02/06/2021



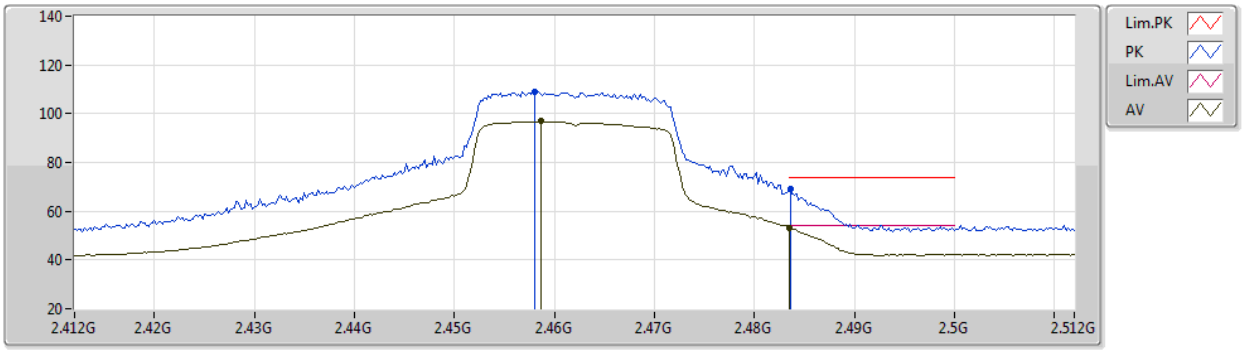
EUT X_2TX
Setting 17.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4586G	111.41	Inf	-Inf	81.60	3	Horizontal	242	1.31	-	27.55	2.26	-
AV	2.4536G	97.98	Inf	-Inf	68.21	3	Horizontal	242	1.31	-	27.52	2.25	-
PK	2.4835G	68.86	74.00	-5.14	38.88	3	Horizontal	242	1.31	-	27.70	2.28	-
AV	2.4835G	53.72	54.00	-0.28	23.74	3	Horizontal	242	1.31	-	27.70	2.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

02/06/2021



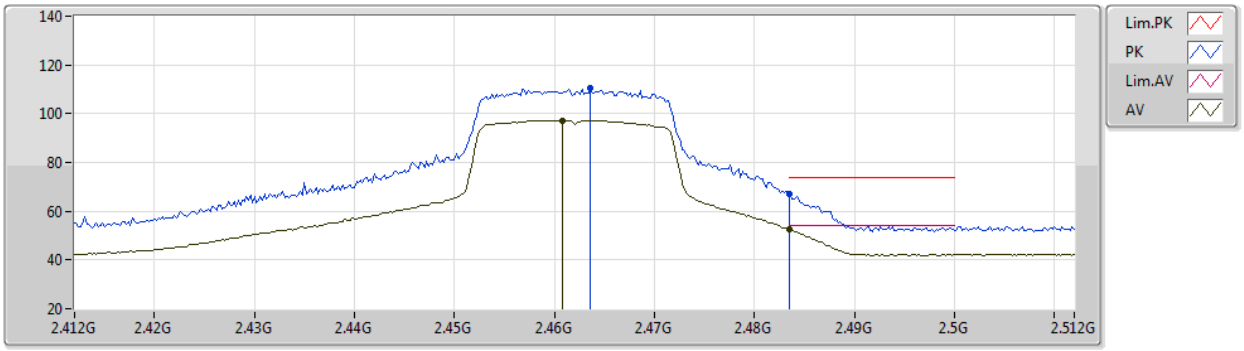
EUT X_2TX
Setting 16.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.458G	109.22	Inf	-Inf	79.41	3	Vertical	280	2.83	-	27.55	2.26	-
AV	2.4586G	96.85	Inf	-Inf	67.04	3	Vertical	280	2.83	-	27.55	2.26	-
PK	2.4836G	68.98	74.00	-5.02	39.00	3	Vertical	280	2.83	-	27.70	2.28	-
AV	2.4835G	53.35	54.00	-0.65	23.37	3	Vertical	280	2.83	-	27.70	2.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

02/06/2021



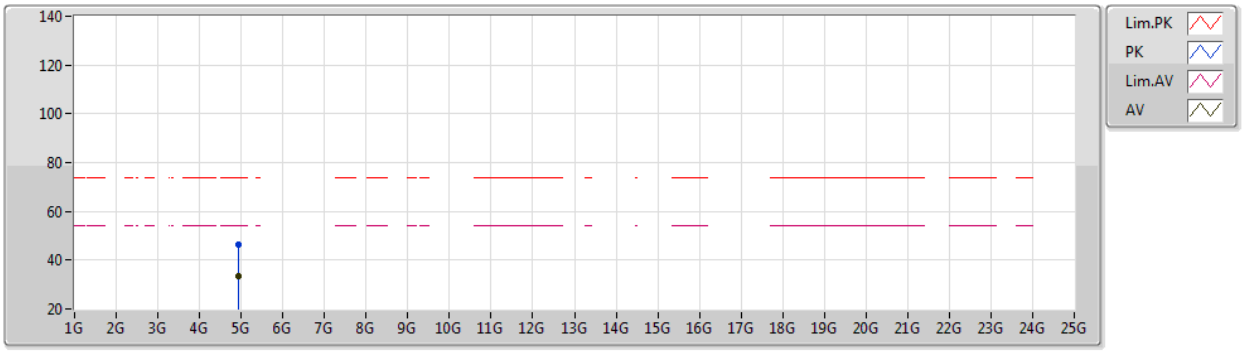
EUT X_2TX
Setting 16.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4636G	110.26	Inf	-Inf	80.42	3	Horizontal	243	2.04	-	27.58	2.26	-
AV	2.4608G	97.28	Inf	-Inf	67.46	3	Horizontal	243	2.04	-	27.56	2.26	-
PK	2.4835G	67.05	74.00	-6.95	37.07	3	Horizontal	243	2.04	-	27.70	2.28	-
AV	2.4835G	52.65	54.00	-1.35	22.67	3	Horizontal	243	2.04	-	27.70	2.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

02/06/2021



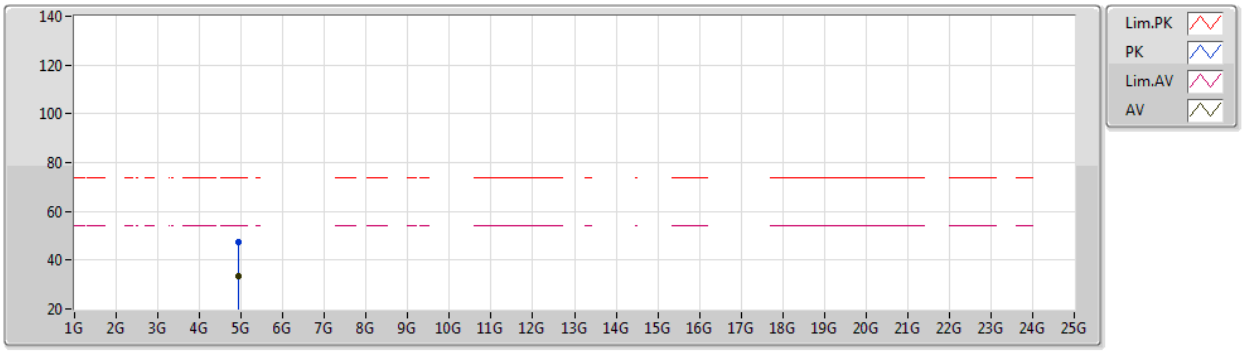
EUT X_2TX
Setting 16.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.9243G	46.29	74.00	-27.71	41.55	3	Vertical	63	1.34	-	32.65	5.06	32.97
AV	4.9241G	33.66	54.00	-20.34	28.93	3	Vertical	63	1.34	-	32.64	5.06	32.97

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

02/06/2021



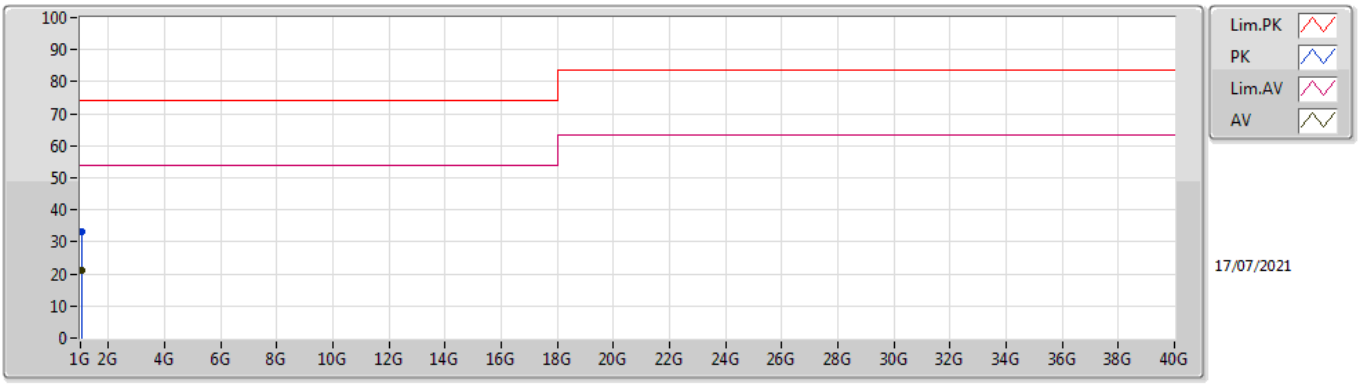
EUT X_2TX
Setting 16.5
01-A-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92064G	47.35	74.00	-26.65	42.64	3	Horizontal	78	1.96	-	32.62	5.06	32.97
AV	4.92714G	33.31	54.00	-20.69	28.56	3	Horizontal	78	1.96	-	32.66	5.06	32.97

Summary

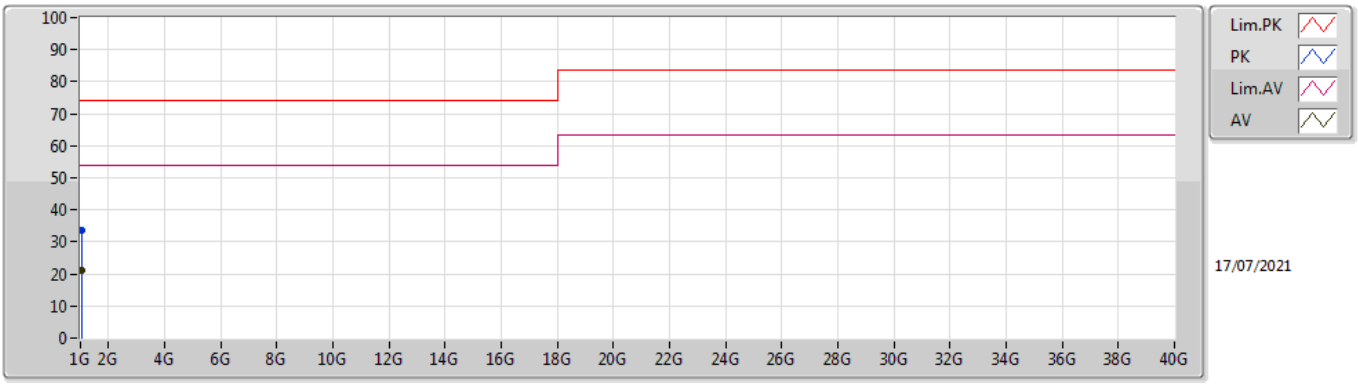
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.04788G	21.22	54.00	-32.78	Vertical

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	1.04836G	33.09	74.00	-40.91	-10.19	3	Vertical	57	1.00	-	43.28	24.50	2.57	37.26
AV	1.04788G	21.22	54.00	-32.78	-10.19	3	Vertical	57	1.00	"Worst"	31.41	24.50	2.57	37.26

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	1.04992G	33.70	74.00	-40.30	-10.19	3	Horizontal	150	1.00	-	43.89	24.50	2.57	37.26
AV	1.0478G	21.12	54.00	-32.88	-10.19	3	Horizontal	150	1.00	"Worst"	31.31	24.50	2.57	37.26