FCC RADIO TEST REPORT

FCC ID	:	PPQ-O105ER
Equipment	:	802.11 a/n/ac + b/g/n Access Point
Brand Name	:	ARISTA
Model Name	:	O-105ER
Applicant	:	LITE-ON TECHNOLOGY CORP. Bldg. C, 90, Chien 1 Rd., Chung-Ho, New Taipei City, 23585 Taiwan
Manufacturer(1)	:	LITE-ON Technology Corp. Networking Plant No. 101, Neihuan N. Rd., Nanzi Processing Export, Nanzi Dist., Kaohsiung City 811, Taiwan (R.O.C.)
Manufacturer(2)	:	Lite-On Network Communication (Dongguan) Limited 30# QingXi Keji Road, QingXi Town, DongGuan City, Guangdong Province, China
Standard	:	47 CFR FCC Part 15.247

The product was received on Feb. 17, 2020, and testing was started from Feb. 17, 2020 and completed on Mar. 09, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR790613-07AA	01	Initial issue of report	Mar. 23, 2020
FR790613-07AA	02	Removing table for multiple listing	Mar. 24, 2020

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: Cliff Chang
Report Producer: Vicky Huang

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
						2.4GHz	5GHz
1	1	Walsin	RFDPA172500ABLB801	Dipole Antenna	N-type	3.07	4.05
2	2	Walsin	RFDPA172500ABLB801	Dipole Antenna	N-type	3.07	4.05

Note: The above information was declared by manufacturer.

For 2.4GHz function:

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11a/n/ac mode (2TX/2RX)

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

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.993	0.03	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.965	0.15	2.067m	1k
VHT20	0.985	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
VHT40	0.966	0.15	2.438m	1k

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	QRCT V3.0.210.0			

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
- ANSI C63.10-2013
- FCC KDB 558074 D01 v05r02
- FCC KDB 662911 D01 v02r01
- FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location			
☐	HWA YA	ADD :	No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)
		TEL :	886-3-327-3456 FAX : 886-3-327-0973
☒	JHUBEI	ADD :	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
		TEL :	886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH02-CB	Owen Hsu	20.6~21.3°C / 60~62%	Feb. 19, 2020~ Mar. 09, 2020
Radiated (Below 1GHz)	03CH05-CB	Stim Sung	20.3~21°C / 60~61%	Feb. 21, 2020
Radiated (Above 1GHz- Radiated Emission Co-location)	03CH05-CB	Stim Sung	20.3~21°C / 60~61%	Feb. 21, 2020
Radiated (Above 1GHz- Emissions in Restricted Frequency Bands)	03CH04-CB	Stim Sung	18.7~19.3°C / 56~59%	Feb. 17, 2020~ Feb. 18, 2020
AC Conduction	CO02-CB	Peter Wu	24~25°C / 54~55%	Feb. 24, 2020

Test site Designation No. TW0006 with FCC.
Test site registered number IC 4086D with Industry Canada.

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 (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	22
2437MHz	23.5
2462MHz	23.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	19
2417MHz	21
2437MHz	26
2457MHz	20.5
2462MHz	19.5
VHT20_Nss1,(MCS0)_2TX	-
2412MHz	17.5
2417MHz	21
2437MHz	25.5
2457MHz	21.5
2462MHz	20
VHT40_Nss1,(MCS0)_2TX	-
2422MHz	19.5
2437MHz	20
2452MHz	18

Note : VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than VHT20 and VHT40.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	EUT + PoE

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

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

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 for Radiated emission below 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.	
1	EUT at Y-axis-WLAN 2.4GHz+WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA790613-07 for Co-location RF Exposure Evaluation.	

Note: The PoE below are for measurement only, would not be marketed.
PoE information as below:

Power	Brand	Model
PoE	PHIHONG	POE20U-560(G)
PoE	CARRIER	UBI-POE-48-5G

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

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	LAN1	DELL	E6430	N/A
B	PoE	PHIHONG	POE20U-560(G)	N/A
C	5G NB	DELL	E6430	N/A
D	2.4G NB	DELL	E6430	N/A
E	LAN2	DELL	E6430	N/A

For Radiated (below 1GHz) and Radiated (co-location above 1GHz):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	PoE	PHIHONG	POE20U-560(G)	N/A
B	NB	DELL	E4300	N/A
C	NB	DELL	E4300	N/A
D	NB	DELL	E4300	N/A
E	NB	DELL	E4300	N/A

For Radiated (above 1GHz others):

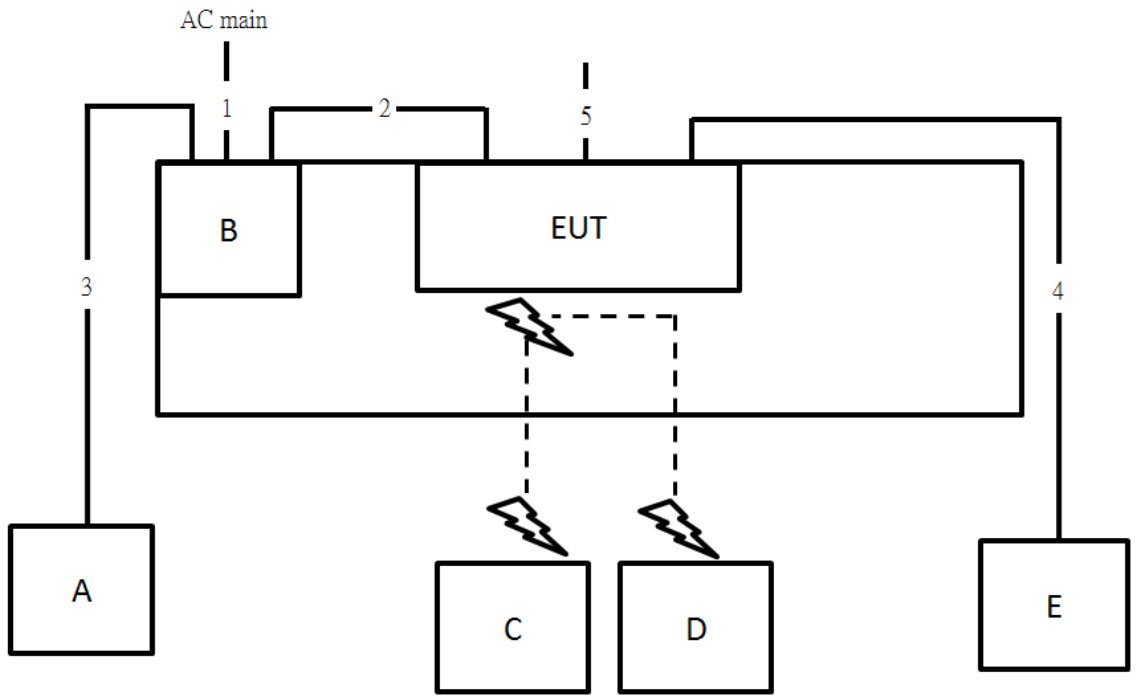
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	PoE	CARRIER	UBI-POE-48-5G	N/A
B	NB	DELL	E4300	N/A

For RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	PoE	CARRIER	UBI-POE-48-5G	N/A

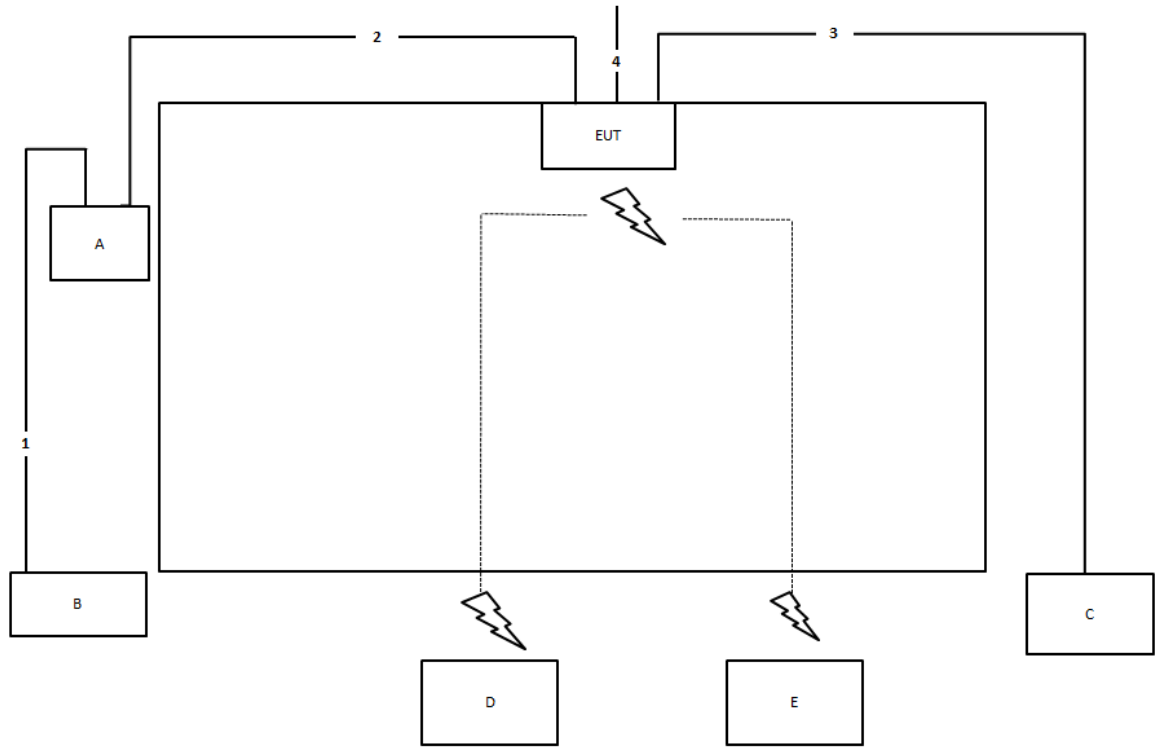
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



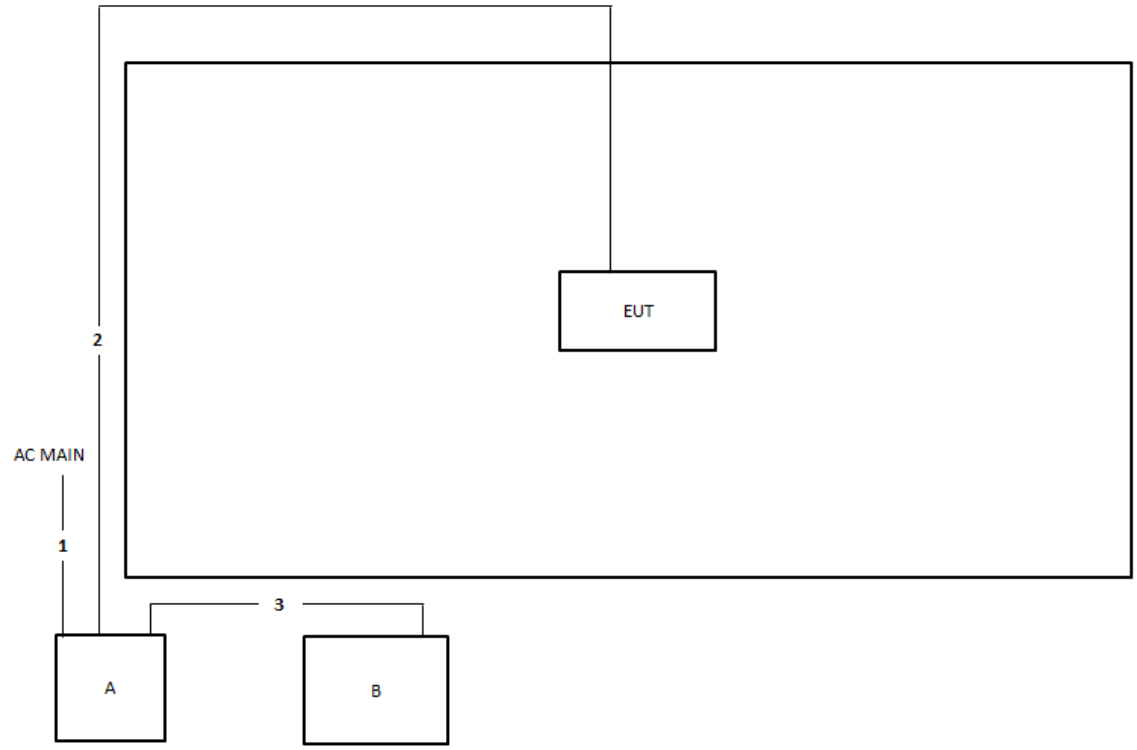
Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m
5	Ground cable	No	1.8m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	10m
4	Ground cable	No	1m

Test Setup Diagram - Radiated Test > 1GHz



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

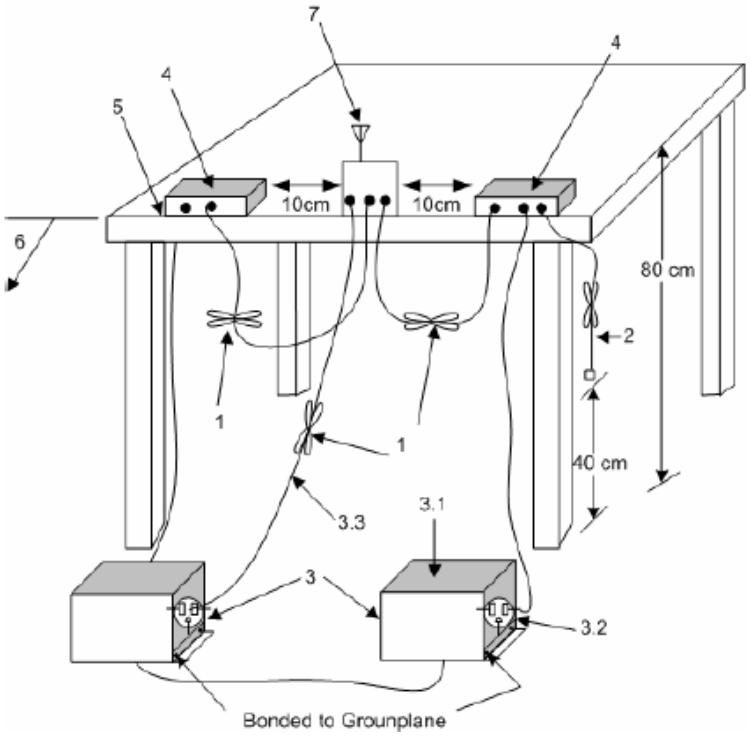
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

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 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.

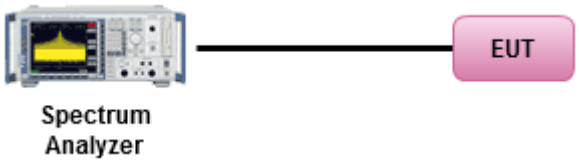
3.2.2 Measuring Instruments

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

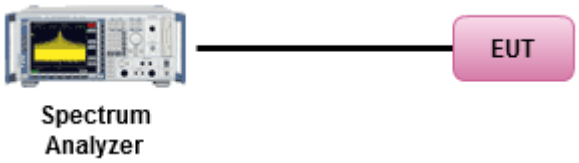
3.4.2 Measuring Instruments

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.	

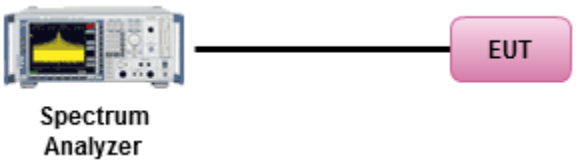
3.5.2 Measuring Instruments

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.

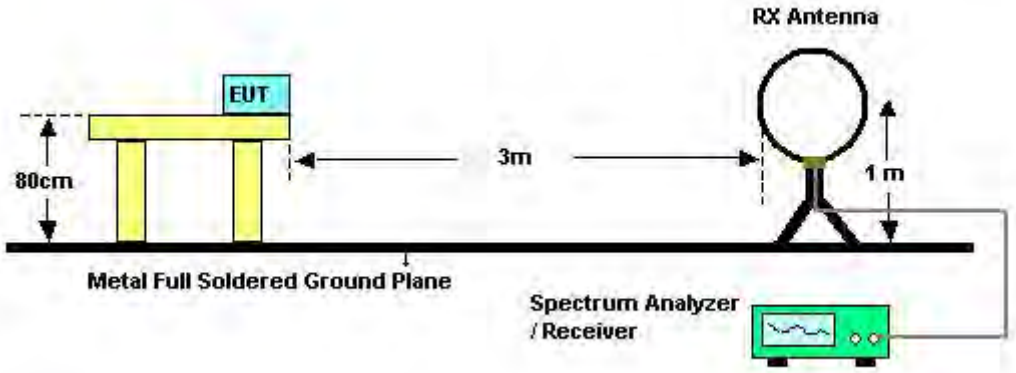
3.6.3 Test Procedures

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.	

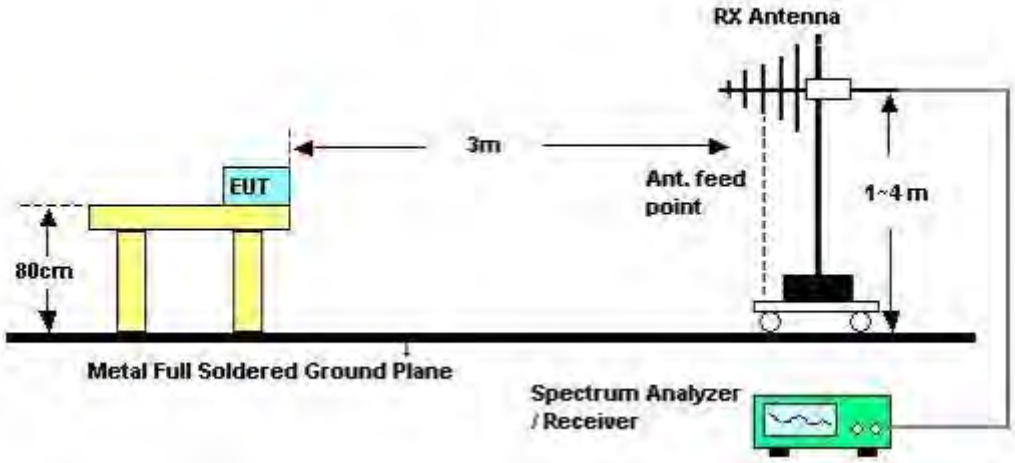
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

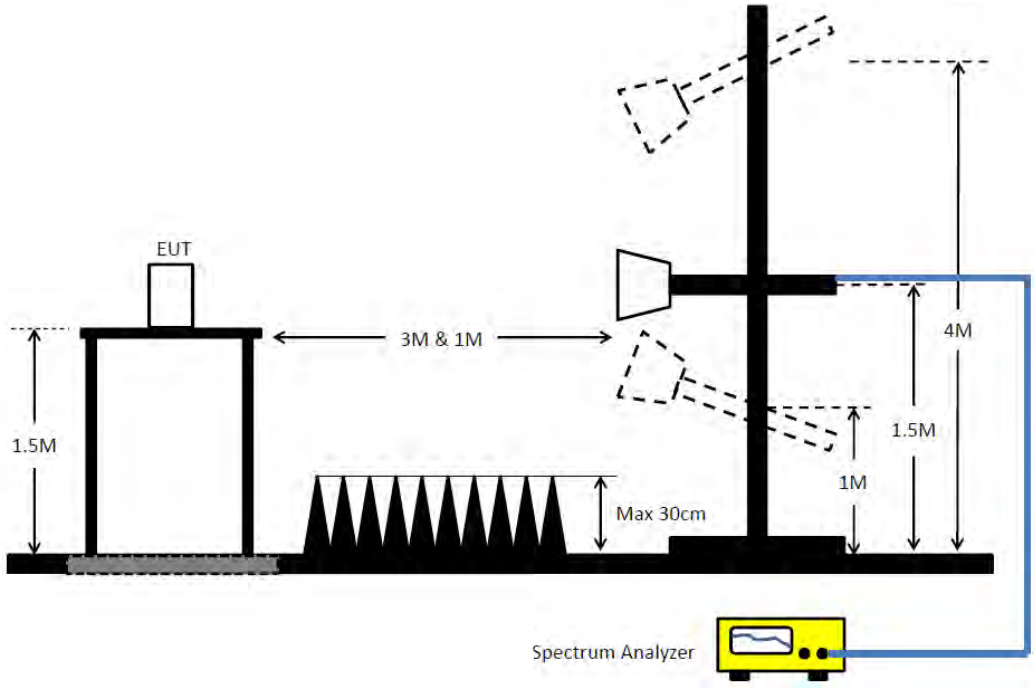
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.5 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = 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 10 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

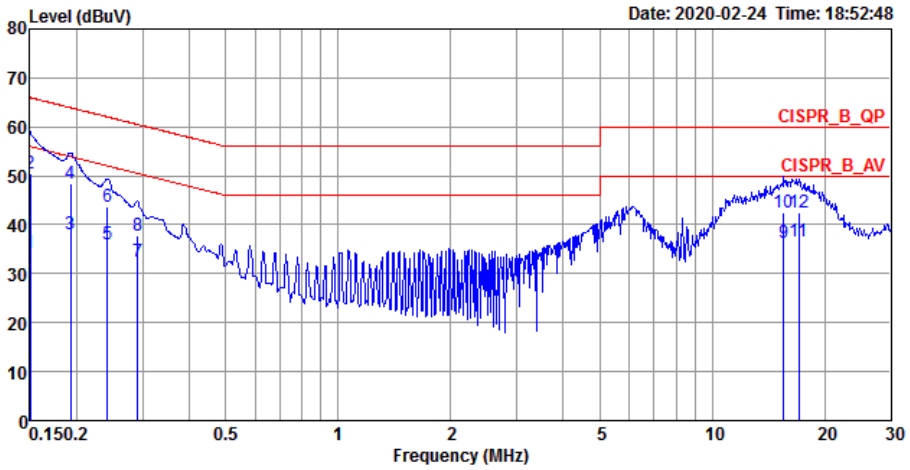
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 21, 2019	Nov. 20, 2020	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Oct. 30, 2019	Oct. 29, 2020	Conduction (CO02-CB)
EMI Test Receiver	R&S	ESCS	100359	9kHz ~ 2.75GHz	Jul. 26, 2019	Jul. 26, 2020	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 21, 2019	Oct. 20, 2020	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 28, 2019	Mar. 27, 2020	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1291	1GHz~18GHz	Oct. 05, 2019	Oct. 04, 2020	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 01, 2019	Apr. 30, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Apr. 16, 2019	Apr. 15, 2020	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)
Horn Antenna	ETS・Lindgren	3115	00143147	750MHz~18GHz	Oct. 22, 2019	Oct. 21, 2020	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Mar. 19, 2019	Mar. 18, 2020	Radiation (03CH04-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Dec. 18, 2019	Dec. 17, 2020	Radiation (03CH04-CB
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+22	1GHz - 18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 02, 2019	Jul. 01, 2020	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 11, 2019	Sep. 10, 2020	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 11, 2019	Sep. 10, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-3	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)

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

NCR means Non-Calibration required.

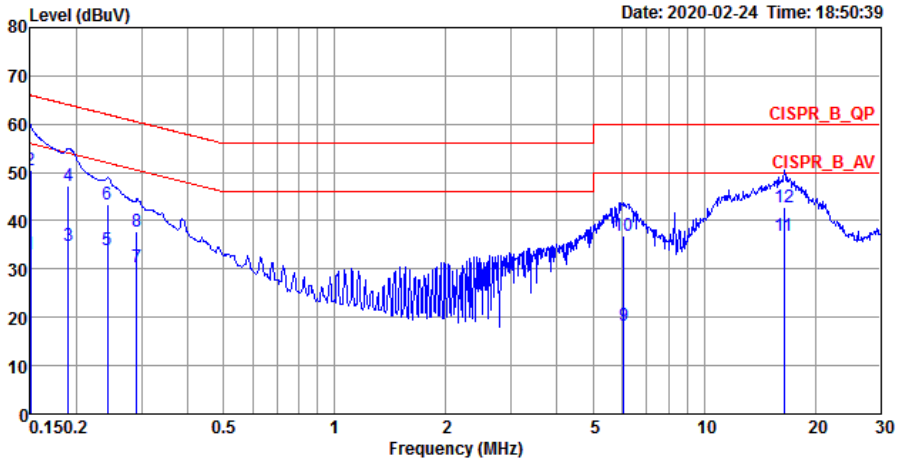
AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Line
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1500	34.35	-21.65	56.00	24.14	10.15	0.06	Average	LINE
2	0.1500	50.41	-15.59	66.00	40.20	10.15	0.06	QP	LINE
3	0.1924	37.94	-15.99	53.93	27.72	10.15	0.07	Average	LINE
4	0.1924	48.52	-15.41	63.93	38.30	10.15	0.07	QP	LINE
5	0.2416	35.99	-16.05	52.04	25.77	10.15	0.07	Average	LINE
6	0.2416	43.66	-18.38	62.04	33.44	10.15	0.07	QP	LINE
7	0.2909	32.55	-17.95	50.50	22.32	10.16	0.07	Average	LINE
8	0.2909	37.73	-22.77	60.50	27.50	10.16	0.07	QP	LINE
9	15.5523	36.28	-13.72	50.00	25.71	10.36	0.21	Average	LINE
10	15.5523	42.39	-17.61	60.00	31.82	10.36	0.21	QP	LINE
11	17.0181	36.53	-13.47	50.00	25.95	10.37	0.21	Average	LINE
12	17.0181	42.48	-17.52	60.00	31.90	10.37	0.21	QP	LINE

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1500	33.12	-22.88	56.00	22.93	10.13	0.06	Average	NEUTRAL
2	0.1500	50.45	-15.55	66.00	40.26	10.13	0.06	QP	NEUTRAL
3	0.1904	34.84	-19.18	54.02	24.64	10.13	0.07	Average	NEUTRAL
4	0.1904	47.17	-16.85	64.02	36.97	10.13	0.07	QP	NEUTRAL
5	0.2429	34.09	-17.91	52.00	23.89	10.13	0.07	Average	NEUTRAL
6	0.2429	43.45	-18.55	62.00	33.25	10.13	0.07	QP	NEUTRAL
7	0.2909	30.40	-20.10	50.50	20.19	10.14	0.07	Average	NEUTRAL
8	0.2909	37.67	-22.83	60.50	27.46	10.14	0.07	QP	NEUTRAL
9	6.0563	18.27	-31.73	50.00	7.90	10.22	0.15	Average	NEUTRAL
10	6.0563	36.81	-23.19	60.00	26.44	10.22	0.15	QP	NEUTRAL
11	16.4856	36.99	-13.01	50.00	26.46	10.32	0.21	Average	NEUTRAL
12	16.4856	42.81	-17.19	60.00	32.28	10.32	0.21	QP	NEUTRAL

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

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	8.525M	13.077M	13M1G1D	7.65M	12.844M
802.11g_Nss1,(6Mbps)_2TX	16.325M	19.745M	19M7D1D	16.05M	16.375M
VHT20_Nss1,(MCS0)_2TX	17.625M	18.722M	18M7D1D	17.15M	17.56M
VHT40_Nss1,(MCS0)_2TX	35.2M	35.86M	35M9D1D	31.3M	35.714M

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

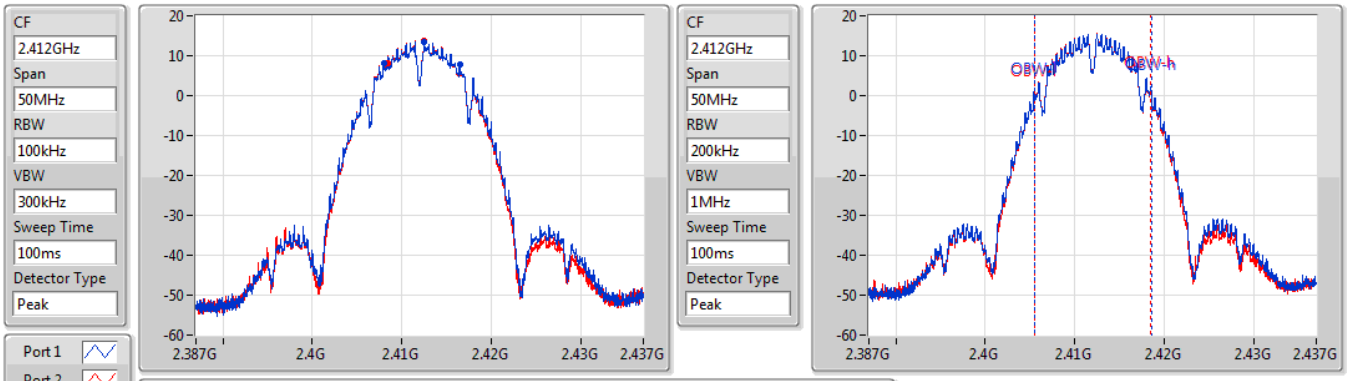
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.525M	13.01M	8.05M	12.921M
2437MHz	Pass	500k	8.5M	13.025M	7.65M	12.844M
2462MHz	Pass	500k	8.075M	13.077M	8.075M	12.902M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.406M	16.325M	16.375M
2437MHz	Pass	500k	16.325M	19.745M	16.325M	17.878M
2462MHz	Pass	500k	16.05M	16.386M	16.325M	16.378M
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.525M	17.583M	17.575M	17.56M
2437MHz	Pass	500k	17.55M	18.722M	17.625M	18.068M
2462MHz	Pass	500k	17.15M	17.56M	17.2M	17.566M
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.05M	35.819M	33.9M	35.782M
2437MHz	Pass	500k	35.05M	35.86M	34.65M	35.85M
2452MHz	Pass	500k	31.3M	35.727M	35.2M	35.714M

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

802.11b_Nss1,(1Mbps)_2TX EBW

2412MHz

20/02/2020

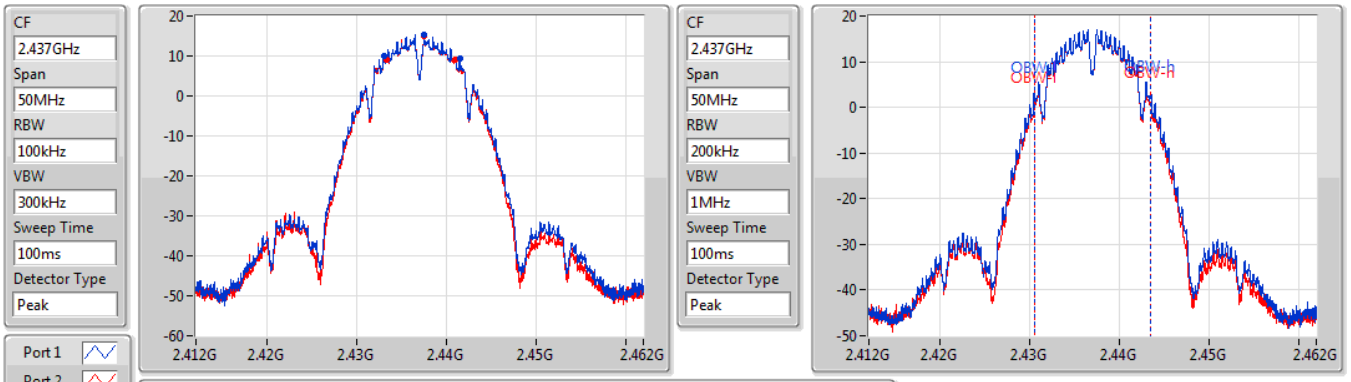


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.525M	2.407975G	2.4165G	13.01M	2.40555G	2.41856G	500k	1
8.05M	2.408425G	2.416475G	12.921M	2.405573G	2.418495G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2437MHz

20/02/2020

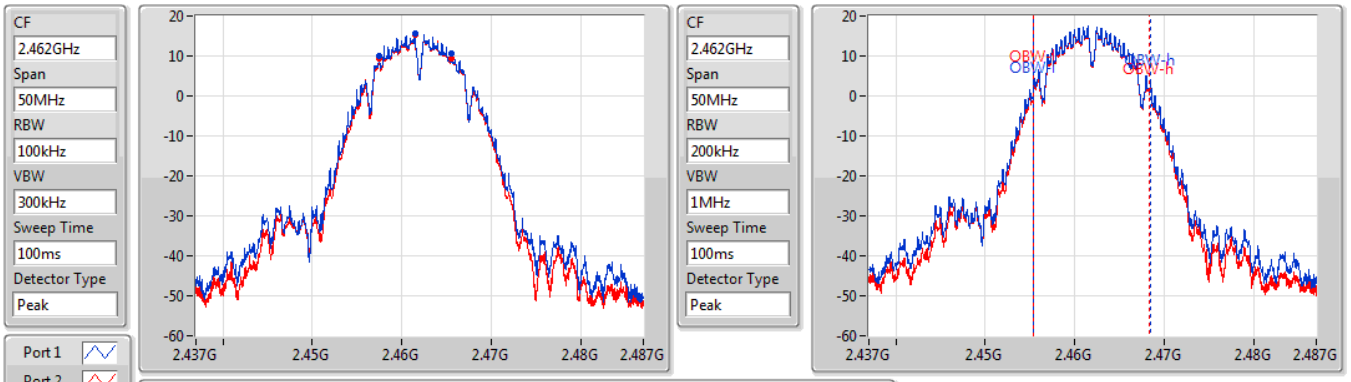


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.5M	2.432975G	2.441475G	13.025M	2.430489G	2.443514G	500k	1
7.65M	2.43335G	2.441G	12.844M	2.430576G	2.44342G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2462MHz

20/02/2020

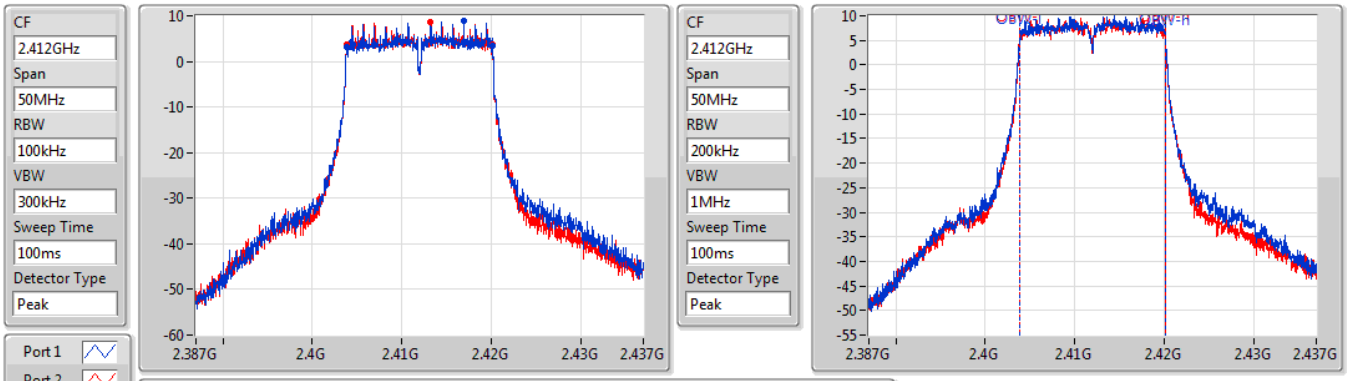


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.075M	2.45745G	2.465525G	13.077M	2.455345G	2.468422G	500k	1
8.075M	2.457475G	2.46555G	12.902M	2.455443G	2.468344G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2412MHz

20/02/2020

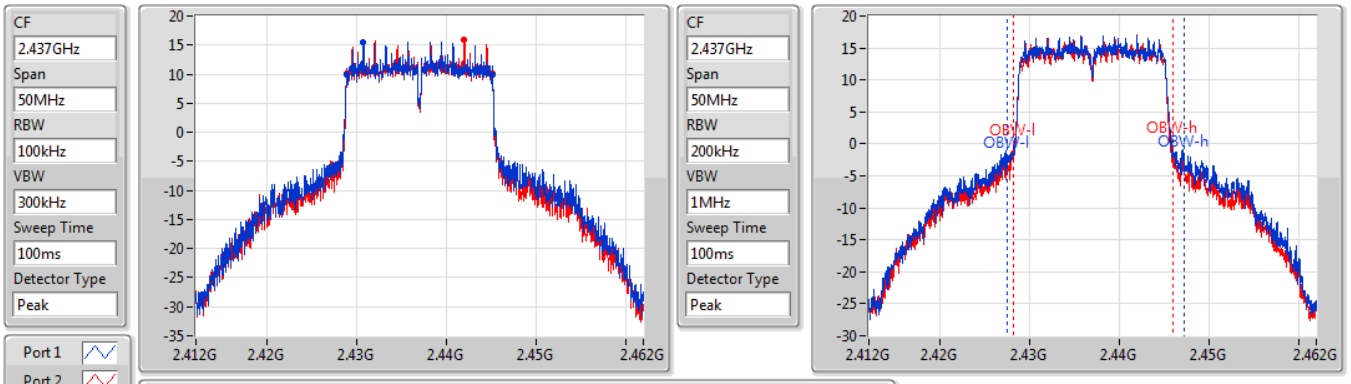


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.403825G	2.42015G	16.406M	2.40379G	2.420196G	500k	1
16.325M	2.403825G	2.42015G	16.375M	2.403805G	2.42018G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2437MHz

20/02/2020

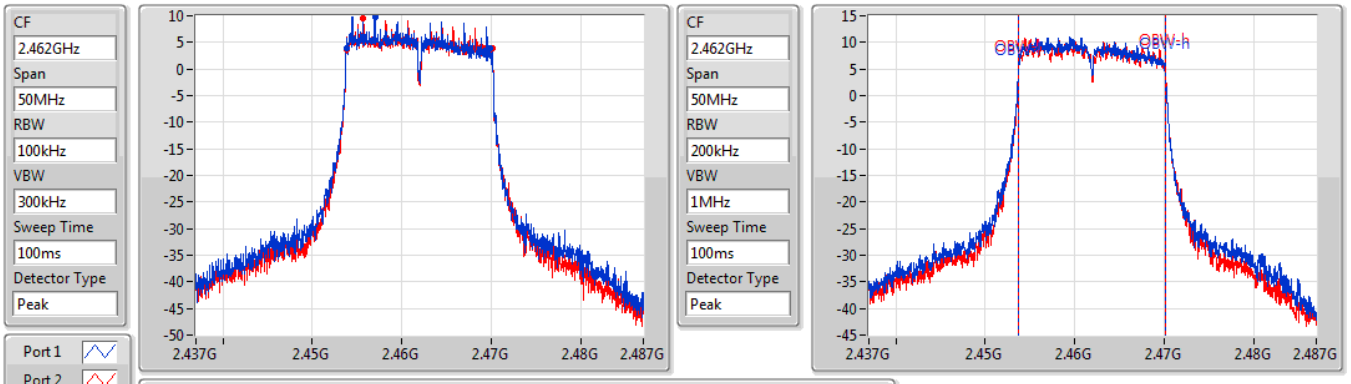


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.428825G	2.44515G	19.745M	2.427506G	2.447251G	500k	1
16.325M	2.428825G	2.44515G	17.878M	2.428166G	2.446044G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2462MHz

20/02/2020

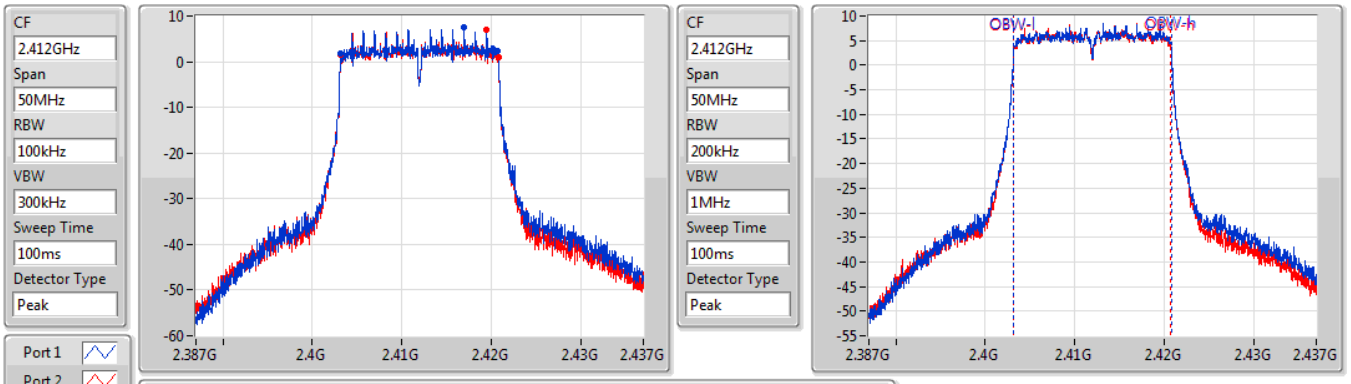


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.05M	2.4538G	2.46985G	16.386M	2.453725G	2.470111G	500k	1
16.325M	2.4538G	2.470125G	16.378M	2.453752G	2.47013G	500k	2

VHT20_Nss1,(MCS0)_2TX EBW

2412MHz

20/02/2020

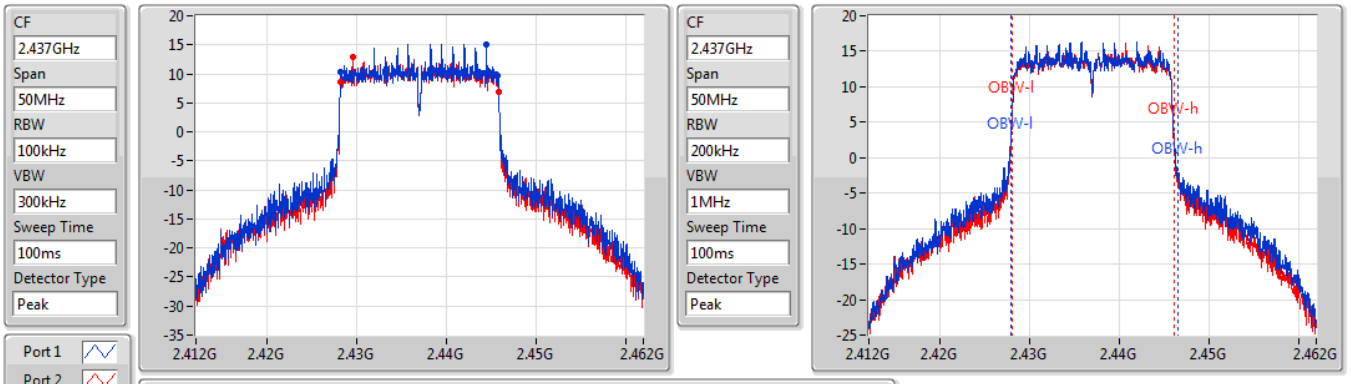


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.525M	2.403225G	2.42075G	17.583M	2.4032G	2.420783G	500k	1
17.575M	2.4032G	2.420775G	17.56M	2.403206G	2.420766G	500k	2

VHT20_Nss1,(MCS0)_2TX EBW

2437MHz

20/02/2020

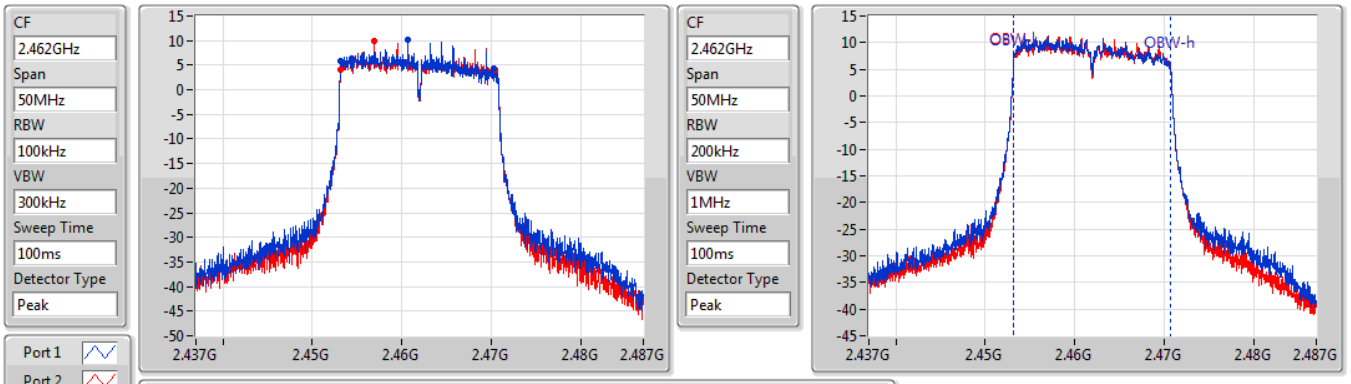


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	2.4282G	2.44575G	18.722M	2.427809G	2.446531G	500k	1
17.625M	2.428175G	2.4458G	18.068M	2.427991G	2.446059G	500k	2

VHT20_Nss1,(MCS0)_2TX EBW

2462MHz

20/02/2020

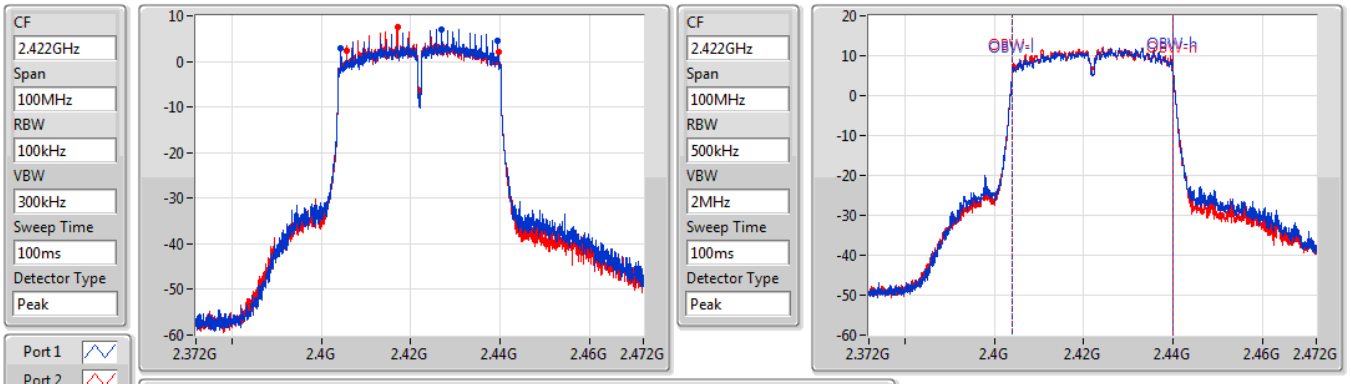


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.15M	2.4532G	2.47035G	17.56M	2.453148G	2.470709G	500k	1
17.2M	2.453175G	2.470375G	17.566M	2.453155G	2.470721G	500k	2

VHT40_Nss1,(MCS0)_2TX EBW

2422MHz

20/02/2020

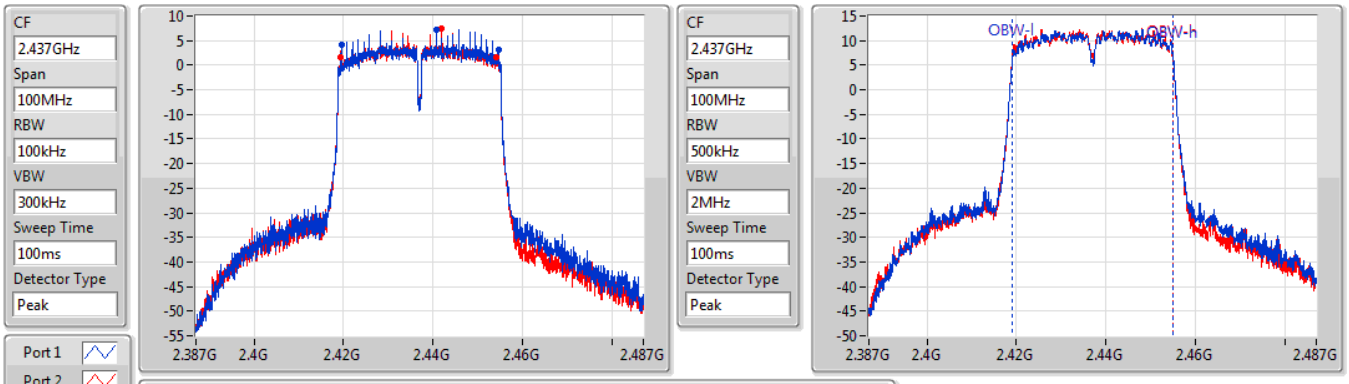


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.05M	2.40445G	2.4395G	35.819M	2.404159G	2.439978G	500k	1
33.9M	2.40565G	2.43955G	35.782M	2.404165G	2.439947G	500k	2

VHT40_Nss1,(MCS0)_2TX EBW

2437MHz

20/02/2020

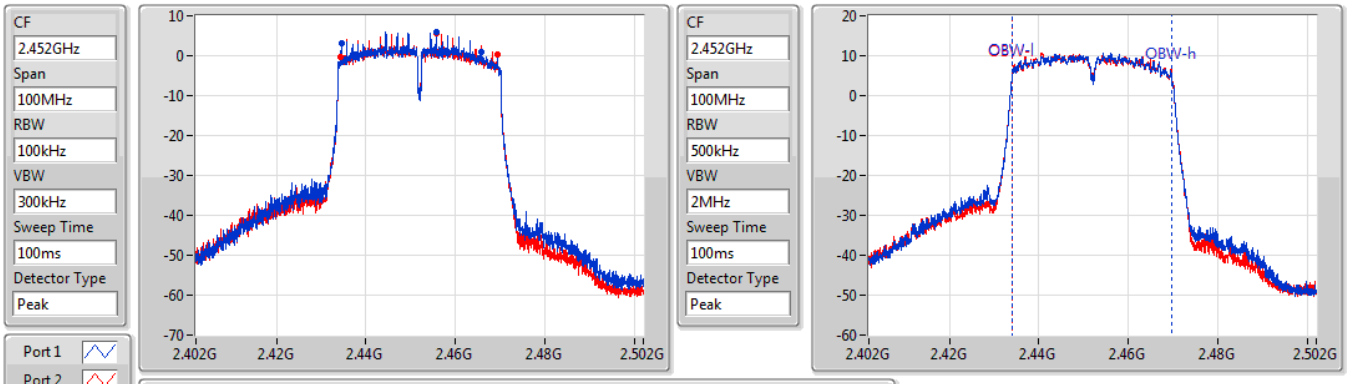


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.05M	2.4195G	2.45455G	35.86M	2.419125G	2.454985G	500k	1
34.65M	2.41945G	2.4541G	35.85M	2.4191G	2.454951G	500k	2

VHT40_Nss1,(MCS0)_2TX EBW

2452MHz

20/02/2020



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.3M	2.4345G	2.4658G	35.727M	2.434048G	2.469775G	500k	1
35.2M	2.43425G	2.46945G	35.714M	2.434058G	2.469772G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
2.4-2.4835GHz	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	27.73	0.59293	30.80	1.20226
802.11g_Nss1,(6Mbps)_2TX	29.66	0.92470	32.73	1.87499
VHT20_Nss1,(MCS0)_2TX	29.21	0.83368	32.28	1.69044
VHT40_Nss1,(MCS0)_2TX	24.33	0.27102	27.40	0.54954

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.07	23.21	23.26	26.25	30.00	29.32	36.00
2437MHz	Pass	3.07	24.79	24.64	27.73	30.00	30.80	36.00
2462MHz	Pass	3.07	24.88	24.43	27.67	30.00	30.74	36.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.07	20.16	20.14	23.16	30.00	26.23	36.00
2417MHz	Pass	3.07	22.02	22.11	25.08	30.00	28.15	36.00
2437MHz	Pass	3.07	26.69	26.60	29.66	30.00	32.73	36.00
2457MHz	Pass	3.07	21.74	21.61	24.69	30.00	27.76	36.00
2462MHz	Pass	3.07	20.66	20.51	23.60	30.00	26.67	36.00
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.07	18.73	18.68	21.72	30.00	24.79	36.00
2417MHz	Pass	3.07	22.09	22.27	25.19	30.00	28.26	36.00
2437MHz	Pass	3.07	26.28	26.11	29.21	30.00	32.28	36.00
2457MHz	Pass	3.07	22.49	22.54	25.53	30.00	28.60	36.00
2462MHz	Pass	3.07	21.21	21.11	24.17	30.00	27.24	36.00
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2422MHz	Pass	3.07	20.82	20.93	23.89	30.00	26.96	36.00
2437MHz	Pass	3.07	21.35	21.29	24.33	30.00	27.40	36.00
2452MHz	Pass	3.07	19.45	19.21	22.34	30.00	25.41	36.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-4.24
802.11g_Nss1,(6Mbps)_2TX	-5.58
VHT20_Nss1,(MCS0)_2TX	-5.65
VHT40_Nss1,(MCS0)_2TX	-14.41

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

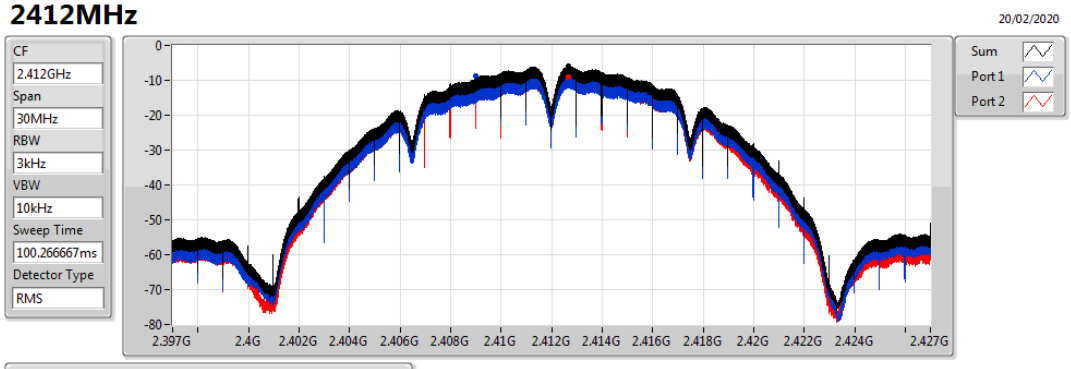
Result

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	6.08	-8.71	-8.97	-6.06	7.92
2437MHz	Pass	6.08	-4.45	-7.44	-4.40	7.92
2462MHz	Pass	6.08	-5.44	-7.36	-4.24	7.92
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.08	-14.52	-13.91	-11.87	7.92
2437MHz	Pass	6.08	-7.88	-8.22	-5.58	7.92
2462MHz	Pass	6.08	-12.77	-13.52	-10.74	7.92
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.08	-15.58	-15.78	-12.96	7.92
2437MHz	Pass	6.08	-8.16	-7.90	-5.65	7.92
2462MHz	Pass	6.08	-12.63	-12.77	-10.03	7.92
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.08	-17.27	-17.12	-14.44	7.92
2437MHz	Pass	6.08	-16.87	-16.71	-14.41	7.92
2452MHz	Pass	6.08	-18.58	-18.37	-15.94	7.92

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

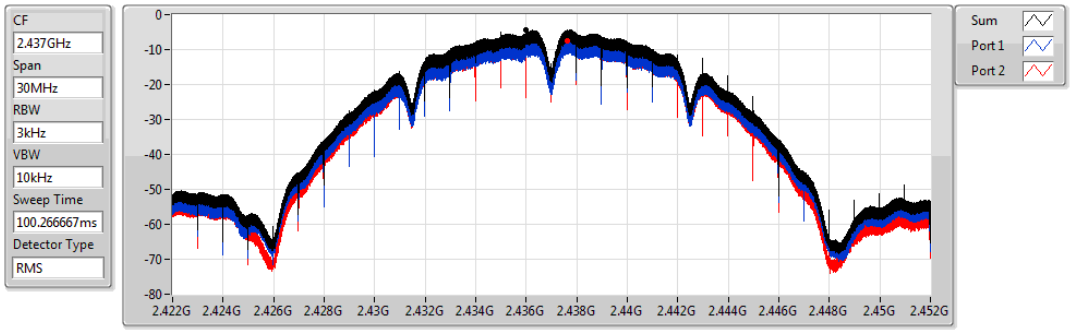
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.06	-6.06	-8.71	-8.97

802.11b_Nss1,(1Mbps)_2TX PSD

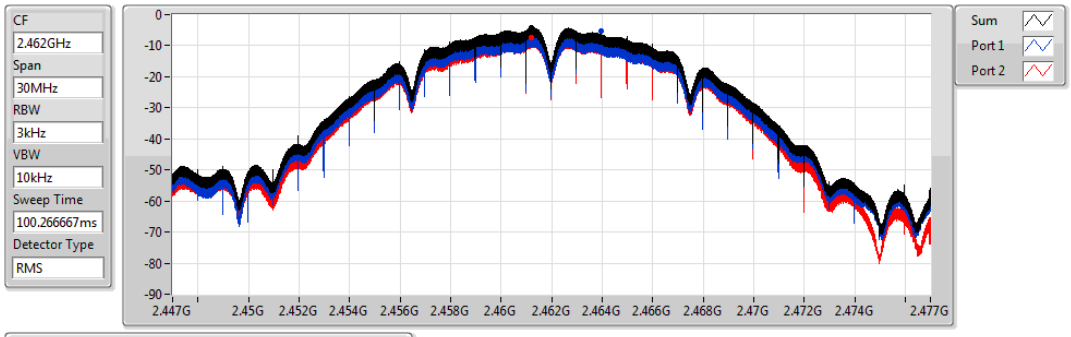
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.40	-4.40	-4.45	-7.44

802.11b_Nss1,(1Mbps)_2TX PSD

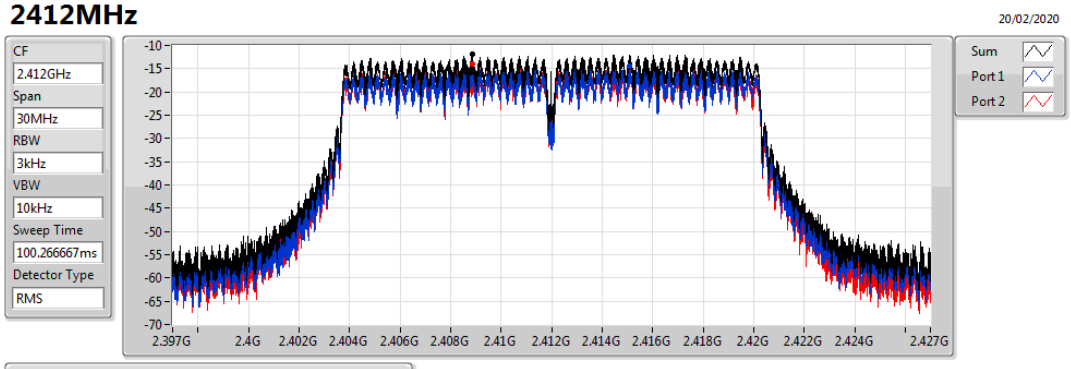
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.24	-4.24	-5.44	-7.36

802.11g_Nss1,(6Mbps)_2TX PSD

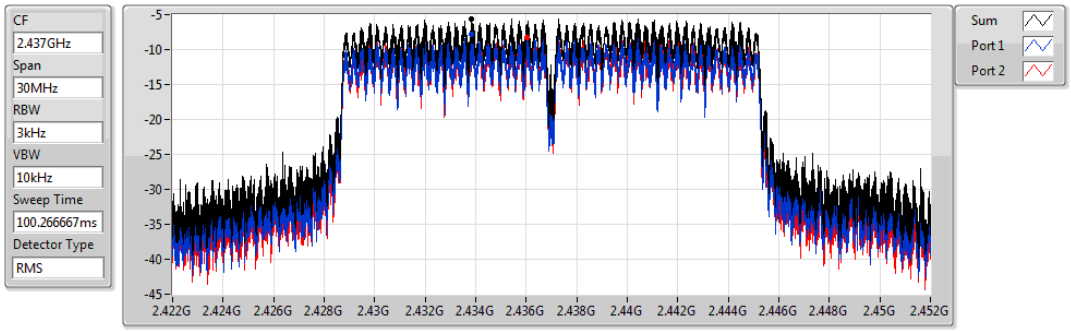
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.87	-11.87	-14.52	-13.91

802.11g_Nss1,(6Mbps)_2TX PSD

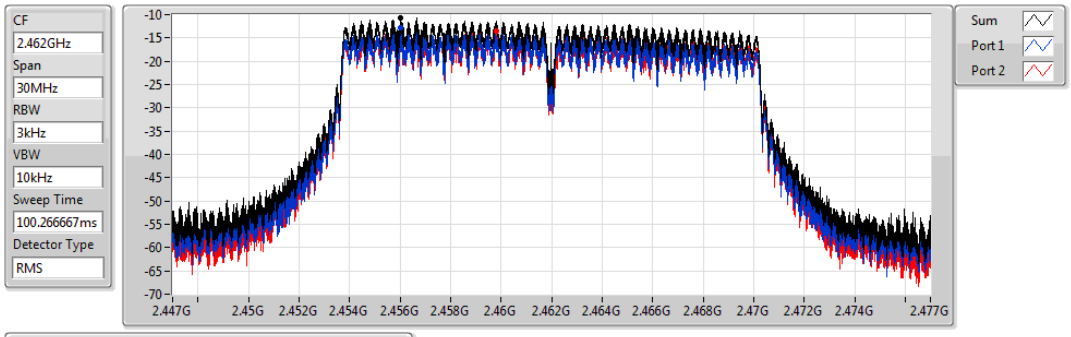
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.58	-5.58	-7.88	-8.22

802.11g_Nss1,(6Mbps)_2TX PSD

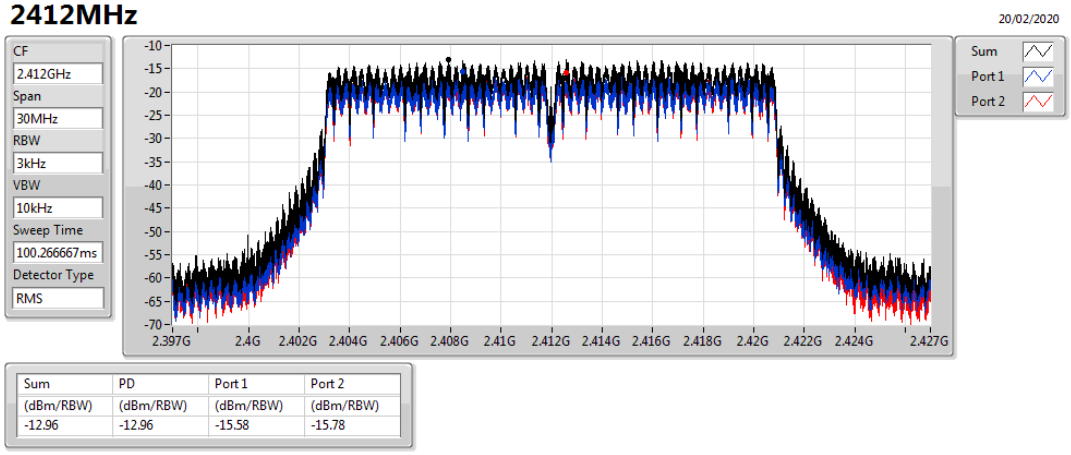
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.74	-10.74	-12.77	-13.52

VHT20_Nss1,(MCS0)_2TX PSD

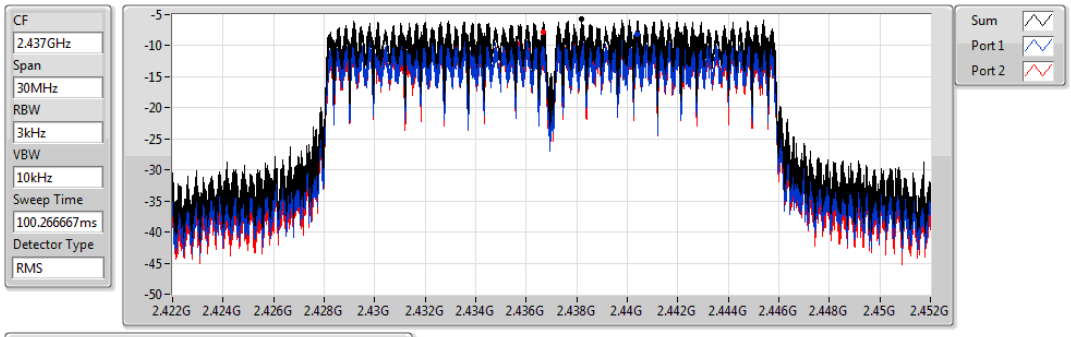
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.96	-12.96	-15.58	-15.78

VHT20_Nss1,(MCS0)_2TX PSD

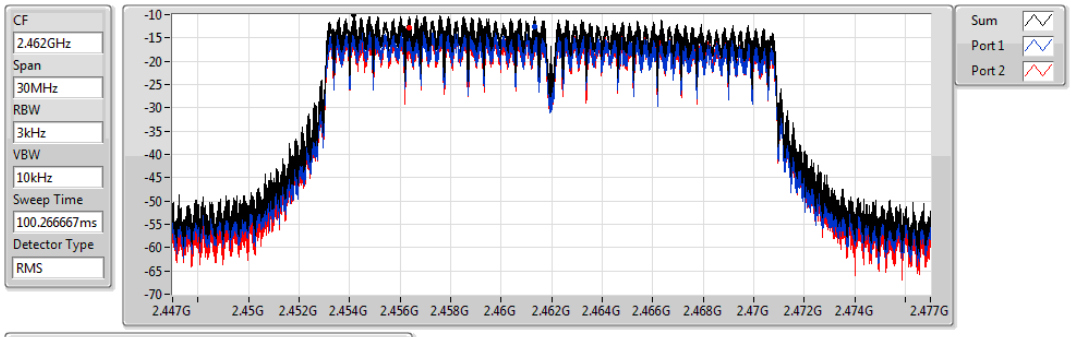
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.65	-5.65	-8.16	-7.90

VHT20_Nss1,(MCS0)_2TX PSD

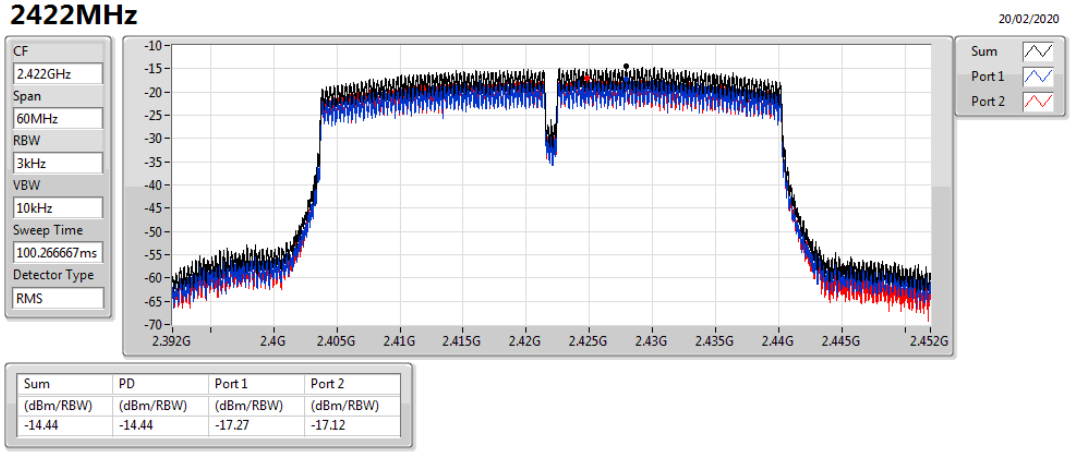
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.03	-10.03	-12.63	-12.77

VHT40_Nss1,(MCS0)_2TX PSD

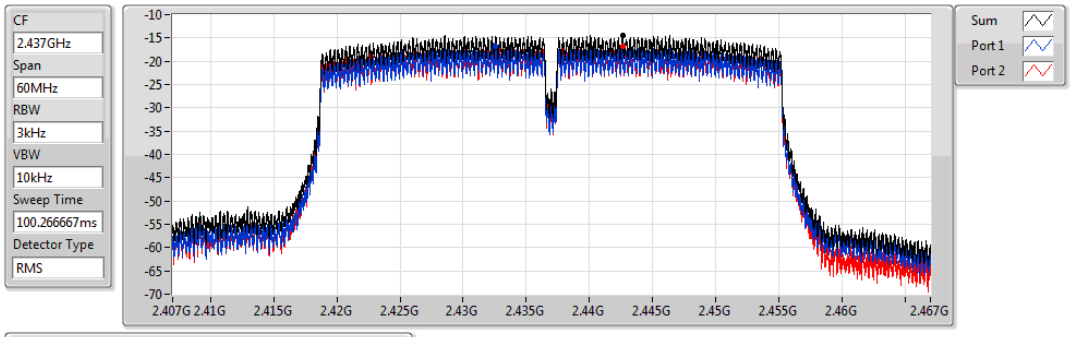
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.44	-14.44	-17.27	-17.12

VHT40_Nss1,(MCS0)_2TX PSD

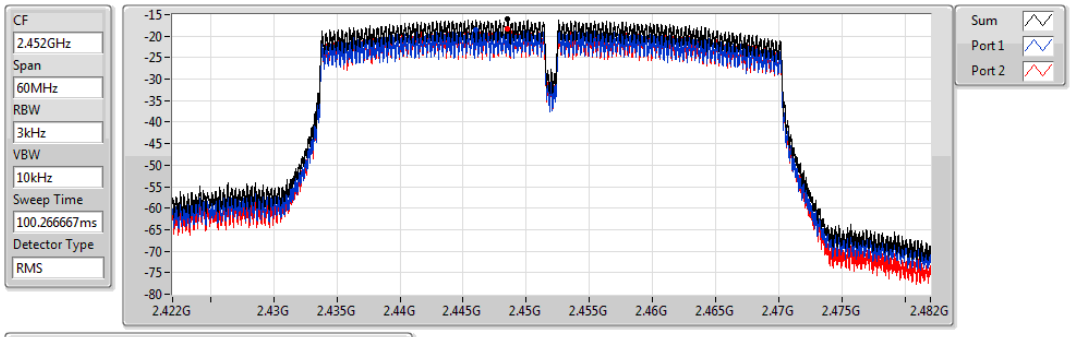
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.41	-14.41	-16.87	-16.71

VHT40_Nss1,(MCS0)_2TX PSD

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-15.94	-15.94	-18.58	-18.37

Summary

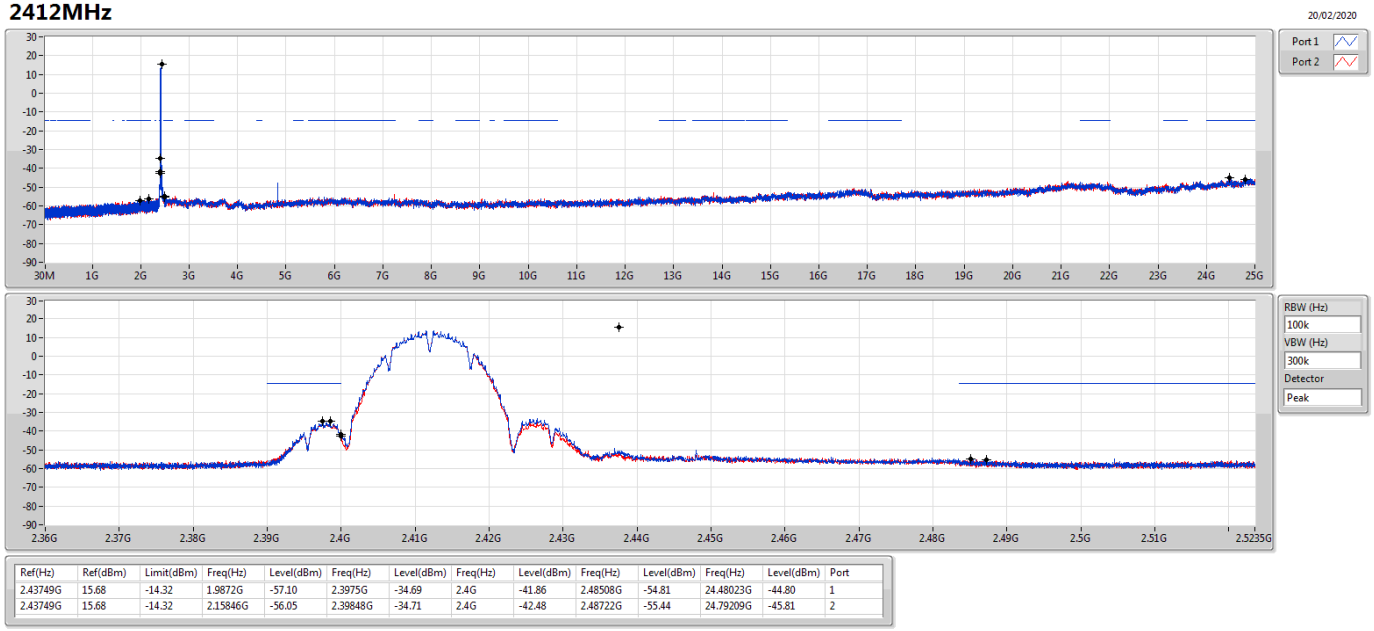
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43749G	15.68	-14.32	1.9872G	-57.10	2.3975G	-34.69	2.4G	-41.86	2.48508G	-54.81	24.48023G	-44.80	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43198G	13.82	-16.18	2.16515G	-56.99	2.3991G	-32.66	2.4G	-32.19	2.4841G	-53.54	24.89605G	-45.17	1
VHT20_Nss1,(MCS0)_2TX	Pass	2.44196G	13.32	-16.68	2.30991G	-57.06	2.39986G	-34.72	2.4G	-35.32	2.48412G	-53.37	24.82862G	-45.66	1
VHT40_Nss1,(MCS0)_2TX	Pass	2.44075G	6.23	-23.77	2.07612G	-56.80	2.3988G	-31.88	2.4G	-34.50	2.48454G	-50.90	24.91586G	-45.03	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	2.43749G	15.68	-14.32	1.9872G	-57.10	2.3975G	-34.69	2.4G	-41.86	2.48508G	-54.81	24.48023G	-44.80	1
2412MHz	Pass	2.43749G	15.68	-14.32	2.15846G	-56.05	2.39848G	-34.71	2.4G	-42.48	2.48722G	-55.44	24.79209G	-45.81	2
2437MHz	Pass	2.43749G	15.68	-14.32	2.15583G	-56.70	2.39996G	-52.03	2.4G	-51.79	2.48412G	-54.87	24.90447G	-44.87	1
2437MHz	Pass	2.43749G	15.68	-14.32	2.18671G	-56.69	2.39994G	-54.01	2.4G	-54.33	2.48438G	-55.00	24.87357G	-45.61	2
2462MHz	Pass	2.43749G	15.68	-14.32	2.09671G	-56.33	2.39996G	-50.85	2.4835G	-43.23	2.4835G	-43.38	24.85671G	-45.36	1
2462MHz	Pass	2.43749G	15.68	-14.32	2.08215G	-57.09	2.39998G	-54.47	2.4835G	-49.27	2.48352G	-49.00	24.80614G	-45.64	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43198G	13.82	-16.18	2.16515G	-56.99	2.3991G	-32.66	2.4G	-32.19	2.4841G	-53.54	24.89605G	-45.17	1
2412MHz	Pass	2.43198G	13.82	-16.18	2.10166G	-57.40	2.39698G	-32.56	2.4G	-36.00	2.48512G	-53.23	24.87638G	-45.81	2
2437MHz	Pass	2.43198G	13.82	-16.18	2.02419G	-56.70	2.39988G	-35.09	2.4G	-36.89	2.48452G	-41.64	24.90167G	-45.52	1
2437MHz	Pass	2.43198G	13.82	-16.18	2.19457G	-55.94	2.39984G	-35.02	2.4G	-38.74	2.48388G	-42.33	24.9129G	-45.27	2
2462MHz	Pass	2.43198G	13.82	-16.18	1.89546G	-57.06	2.39998G	-45.98	2.4835G	-40.52	2.48422G	-39.71	24.85952G	-45.43	1
2462MHz	Pass	2.43198G	13.82	-16.18	2.16748G	-57.07	2.4G	-51.16	2.4835G	-44.14	2.48368G	-42.62	24.98595G	-45.01	2
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44196G	13.32	-16.68	2.30991G	-57.06	2.39986G	-34.72	2.4G	-35.32	2.48412G	-53.37	24.82862G	-45.66	1
2412MHz	Pass	2.44196G	13.32	-16.68	2.19661G	-56.45	2.39886G	-35.78	2.4G	-37.21	2.48504G	-53.46	24.91571G	-45.50	2
2437MHz	Pass	2.44196G	13.32	-16.68	2.16923G	-56.88	2.3995G	-35.16	2.4G	-36.40	2.48384G	-42.52	24.95505G	-45.85	1
2437MHz	Pass	2.44196G	13.32	-16.68	2.04632G	-56.59	2.39888G	-35.63	2.4G	-37.89	2.48476G	-42.76	24.92133G	-45.52	2
2462MHz	Pass	2.44196G	13.32	-16.68	2.08797G	-56.84	2.39998G	-46.33	2.4835G	-36.96	2.48386G	-36.27	24.76681G	-45.24	1
2462MHz	Pass	2.44196G	13.32	-16.68	2.30466G	-56.25	2.39998G	-51.76	2.4835G	-39.07	2.4835G	-39.50	24.92976G	-45.19	2
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44075G	6.23	-23.77	2.07612G	-56.80	2.3988G	-31.88	2.4G	-34.50	2.48454G	-50.90	24.91586G	-45.03	1
2422MHz	Pass	2.44075G	6.23	-23.77	2.19233G	-56.81	2.39696G	-32.94	2.4G	-37.23	2.48354G	-52.38	24.8149G	-45.75	2
2437MHz	Pass	2.44075G	6.23	-23.77	2.1972G	-57.41	2.39976G	-36.09	2.4G	-37.48	2.4851G	-44.27	24.82892G	-45.22	1
2437MHz	Pass	2.44075G	6.23	-23.77	2.19262G	-56.55	2.39976G	-36.31	2.4G	-39.24	2.48382G	-46.98	24.85416G	-45.46	2
2452MHz	Pass	2.44075G	6.23	-23.77	2.19663G	-55.54	2.39996G	-49.79	2.4835G	-46.66	2.4845G	-45.63	24.91867G	-45.31	1
2452MHz	Pass	2.44075G	6.23	-23.77	2.16228G	-56.24	2.4G	-51.59	2.4835G	-49.91	2.48446G	-49.70	24.48957G	-45.25	2

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

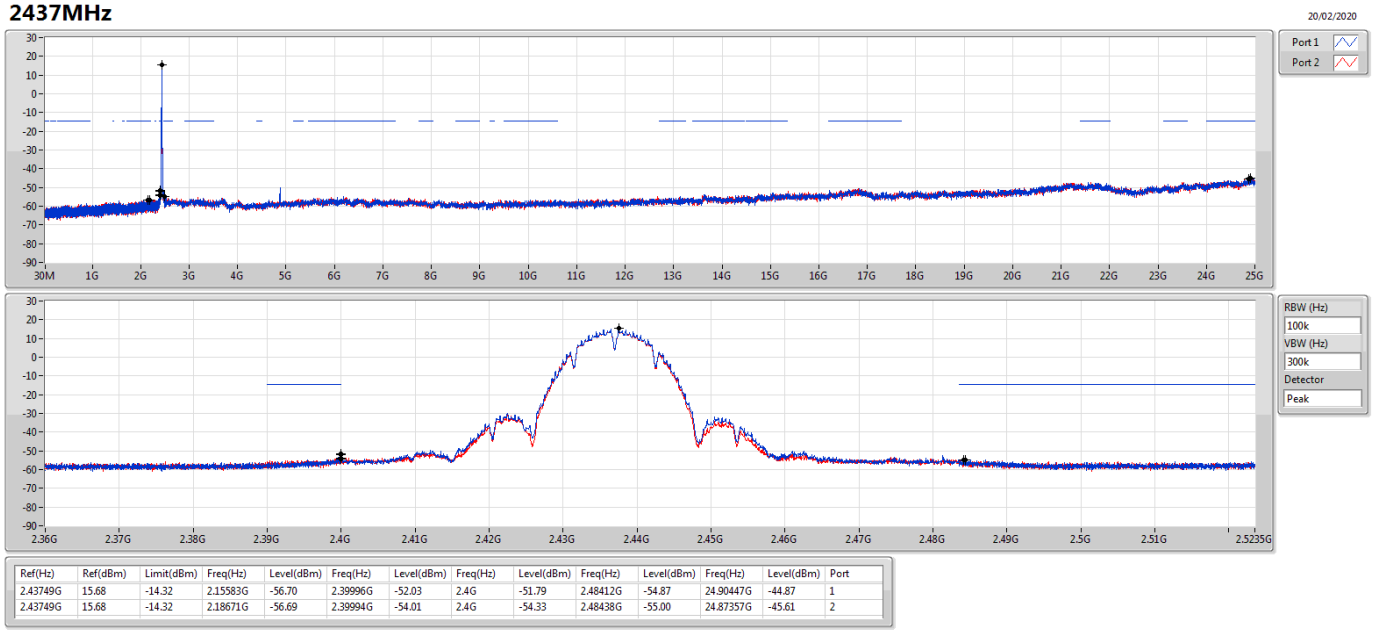
2412MHz



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
2.43749G	15.68	-14.32	1.9872G	-57.10	2.3975G	-34.69	2.4G	-41.86	2.48508G	-54.81	24.48023G	-44.80	1
2.43749G	15.68	-14.32	2.15846G	-56.05	2.39848G	-34.71	2.4G	-42.48	2.48722G	-55.44	24.79209G	-45.81	2

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

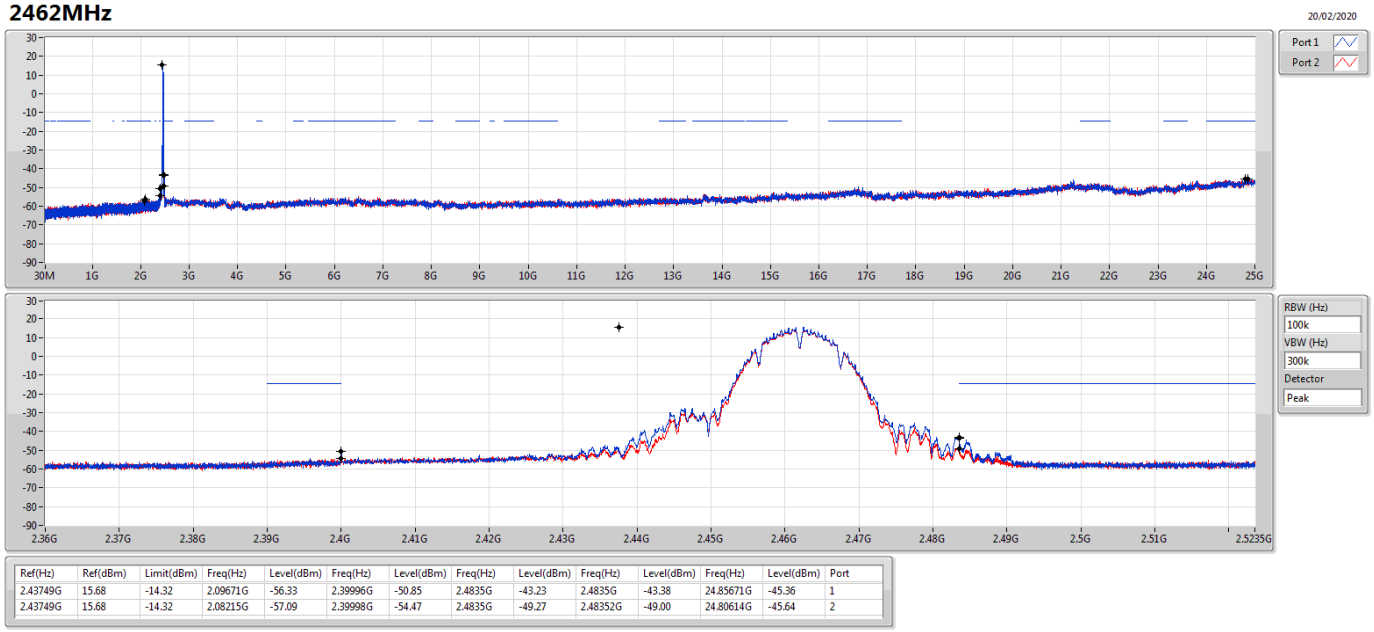
2437MHz



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
2.43749G	15.68	-14.32	2.15583G	-56.70	2.39996G	-52.03	2.4G	-51.79	2.48412G	-54.87	24.90447G	-44.87	1
2.43749G	15.68	-14.32	2.18671G	-56.69	2.39994G	-54.01	2.4G	-54.33	2.48438G	-55.00	24.87357G	-45.61	2

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

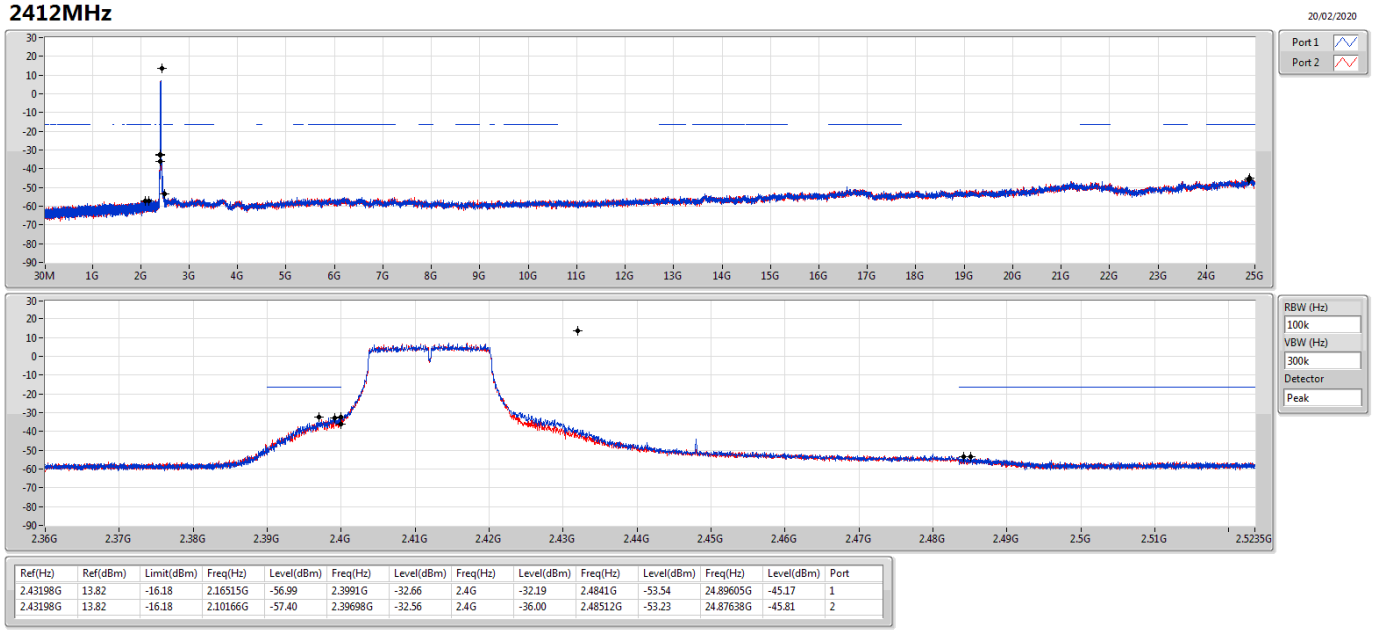
2462MHz



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
2.43749G	15.68	-14.32	2.09671G	-56.33	2.39996G	-50.85	2.4835G	-43.23	2.4835G	-43.38	24.85671G	-45.36	1
2.43749G	15.68	-14.32	2.08215G	-57.09	2.39998G	-54.47	2.4835G	-49.27	2.48352G	-49.00	24.80614G	-45.64	2

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

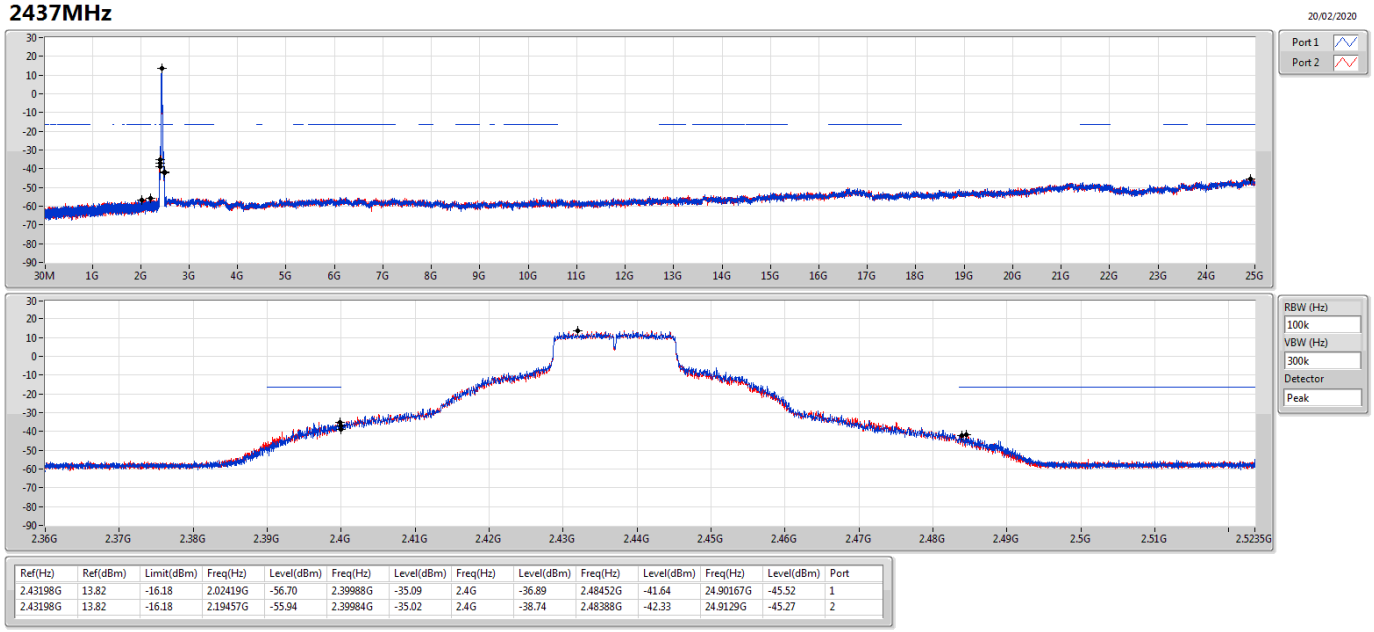
2412MHz



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
2.43198G	13.82	-16.18	2.16515G	-56.99	2.3991G	-32.66	2.4G	-32.19	2.4841G	-53.54	24.89605G	-45.17	1
2.43198G	13.82	-16.18	2.10166G	-57.40	2.39698G	-32.56	2.4G	-36.00	2.48512G	-53.23	24.87638G	-45.81	2

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

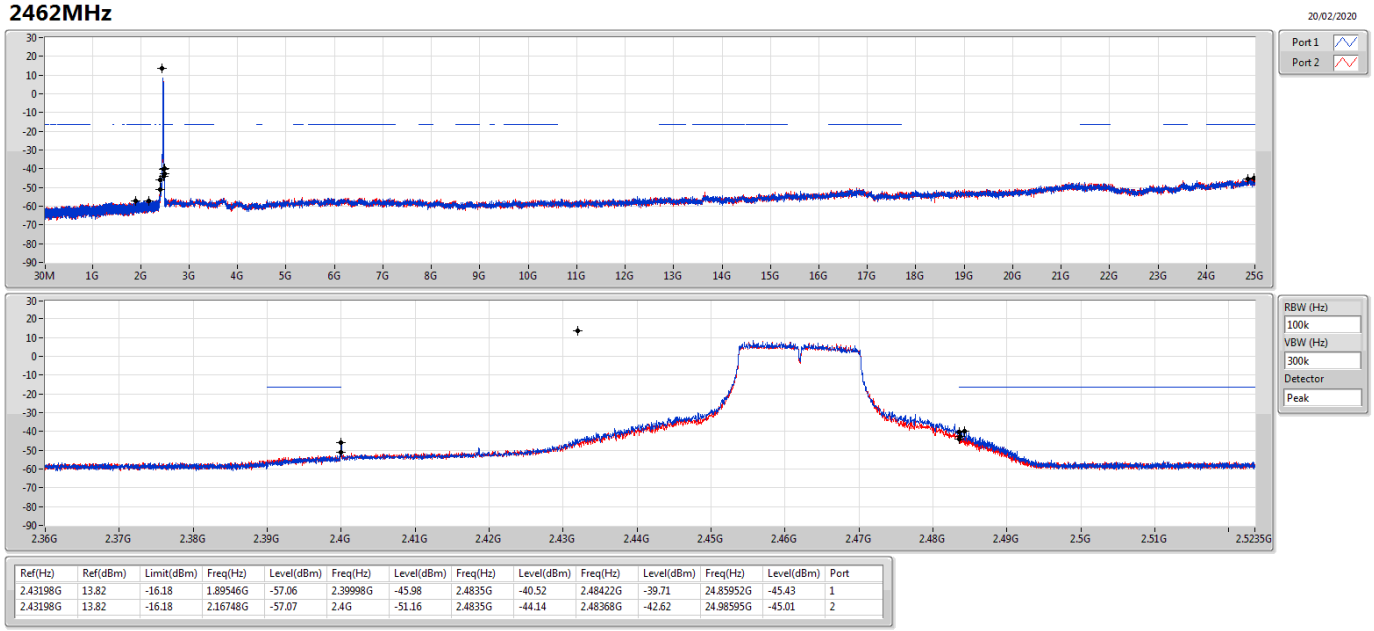
2437MHz



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
2.43198G	13.82	-16.18	2.02419G	-56.70	2.39988G	-35.09	2.4G	-36.89	2.48452G	-41.64	24.90167G	-45.52	1
2.43198G	13.82	-16.18	2.19457G	-55.94	2.39984G	-35.02	2.4G	-38.74	2.48388G	-42.33	24.9129G	-45.27	2

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

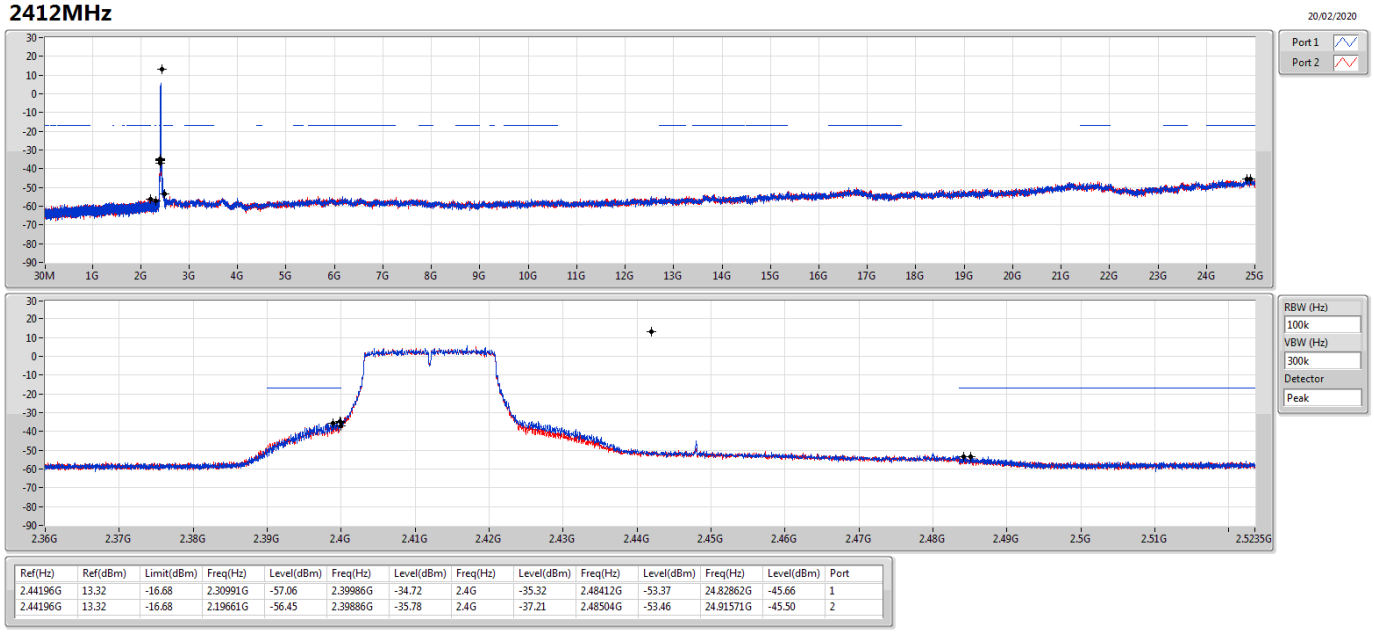
2462MHz



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
2.43198G	13.82	-16.18	1.89546G	-57.06	2.39998G	-45.98	2.4835G	-40.52	2.48422G	-39.71	24.85952G	-45.43	1
2.43198G	13.82	-16.18	2.16748G	-57.07	2.4G	-51.16	2.4835G	-44.14	2.48368G	-42.62	24.98595G	-45.01	2

VHT20_Nss1,(MCS0)_2TX **CSE NdB**

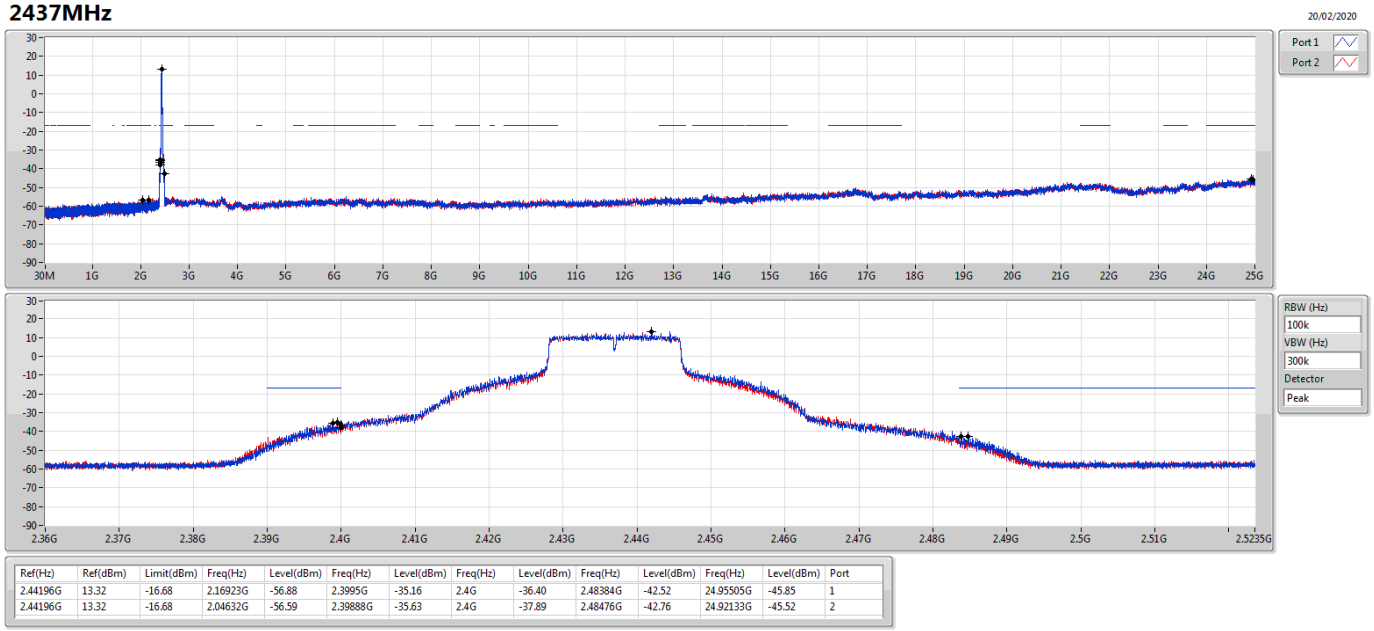
2412MHz



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
2.44196G	13.32	-16.68	2.30991G	-57.06	2.39986G	-34.72	2.4G	-35.32	2.48412G	-53.37	24.82862G	-45.66	1
2.44196G	13.32	-16.68	2.19661G	-56.45	2.39886G	-35.78	2.4G	-37.21	2.48504G	-53.46	24.91571G	-45.50	2

VHT20_Nss1,(MCS0)_2TX **CSE NdB**

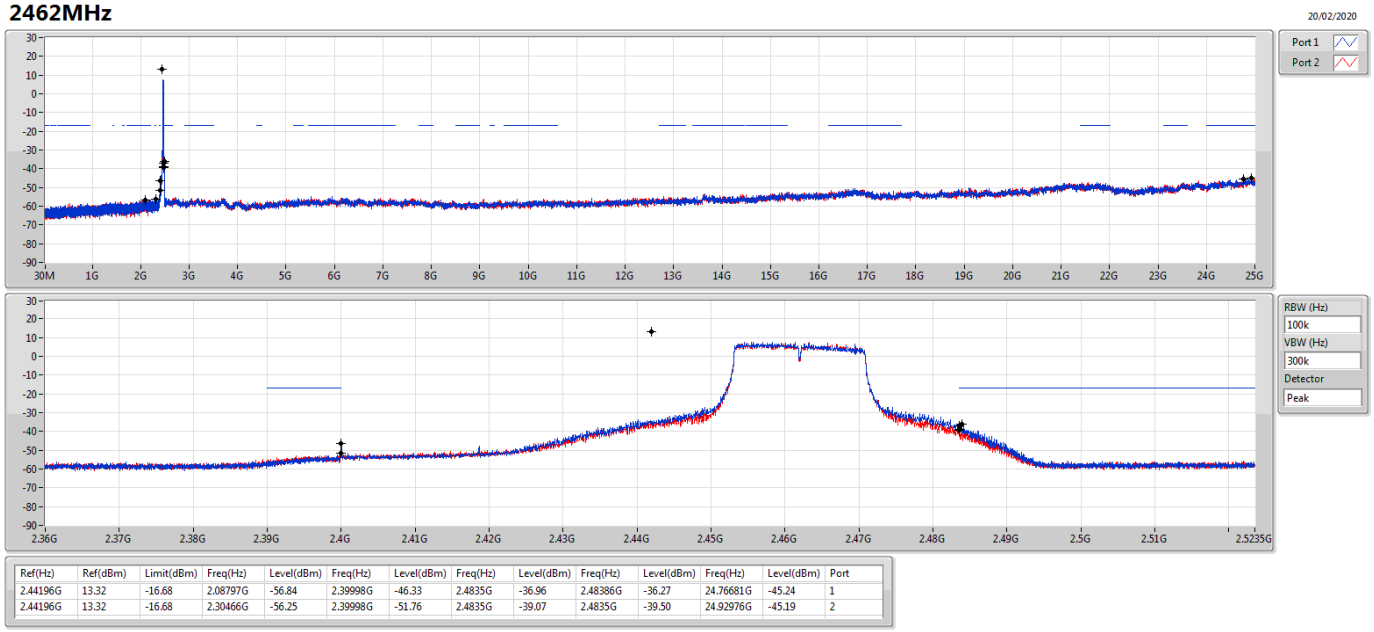
2437MHz



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
2.44196G	13.32	-16.68	2.16923G	-56.88	2.3995G	-35.16	2.4G	-36.40	2.48384G	-42.52	24.95505G	-45.85	1
2.44196G	13.32	-16.68	2.04632G	-56.59	2.39888G	-35.63	2.4G	-37.89	2.48476G	-42.76	24.92133G	-45.52	2

VHT20_Nss1,(MCS0)_2TX **CSE NdB**

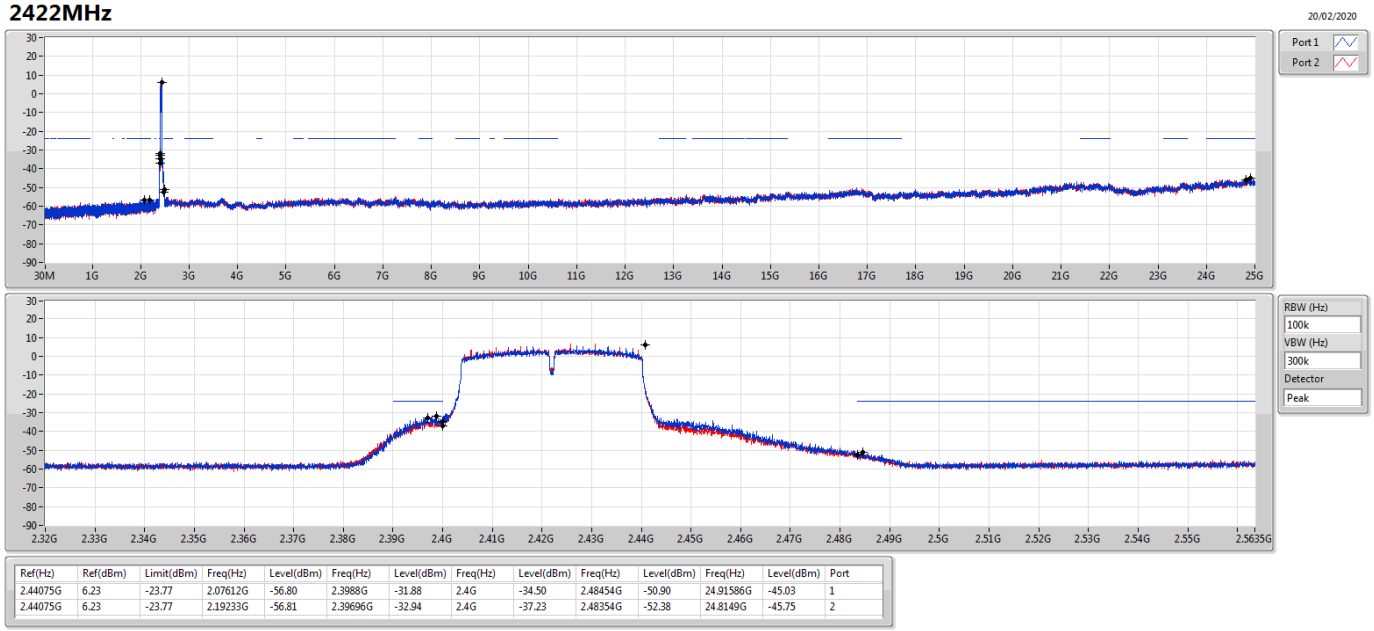
2462MHz



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
2.44196G	13.32	-16.68	2.08797G	-56.84	2.39998G	-46.33	2.4835G	-36.96	2.48386G	-36.27	24.76681G	-45.24	1
2.44196G	13.32	-16.68	2.30466G	-56.25	2.39998G	-51.76	2.4835G	-39.07	2.4835G	-39.50	24.92976G	-45.19	2

VHT40_Nss1,(MCS0)_2TX **CSE NdB**

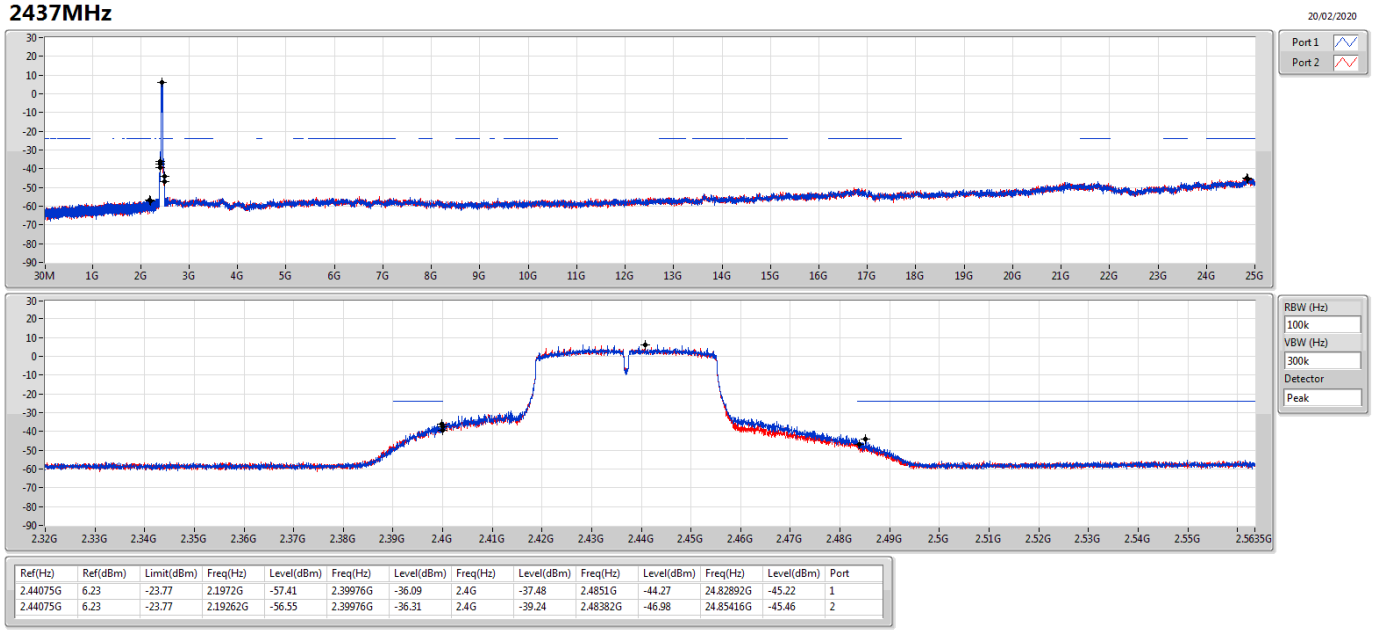
2422MHz



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
2.44075G	6.23	-23.77	2.07612G	-56.80	2.3988G	-31.88	2.4G	-34.50	2.48454G	-50.90	24.91586G	-45.03	1
2.44075G	6.23	-23.77	2.19233G	-56.81	2.39696G	-32.94	2.4G	-37.23	2.48354G	-52.38	24.8149G	-45.75	2

VHT40_Nss1,(MCS0)_2TX **CSE NdB**

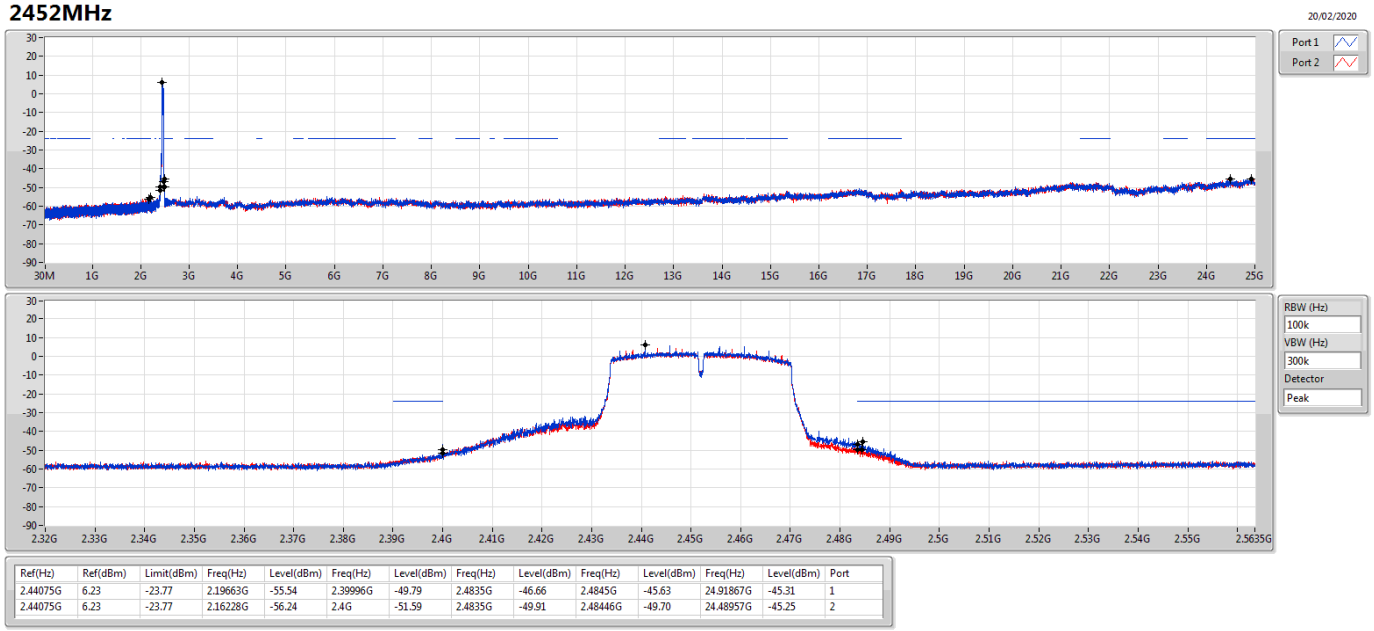
2437MHz



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
2.44075G	6.23	-23.77	2.1972G	-57.41	2.39976G	-36.09	2.4G	-37.48	2.4851G	-44.27	24.82892G	-45.22	1
2.44075G	6.23	-23.77	2.19262G	-56.55	2.39976G	-36.31	2.4G	-39.24	2.48382G	-46.98	24.85416G	-45.46	2

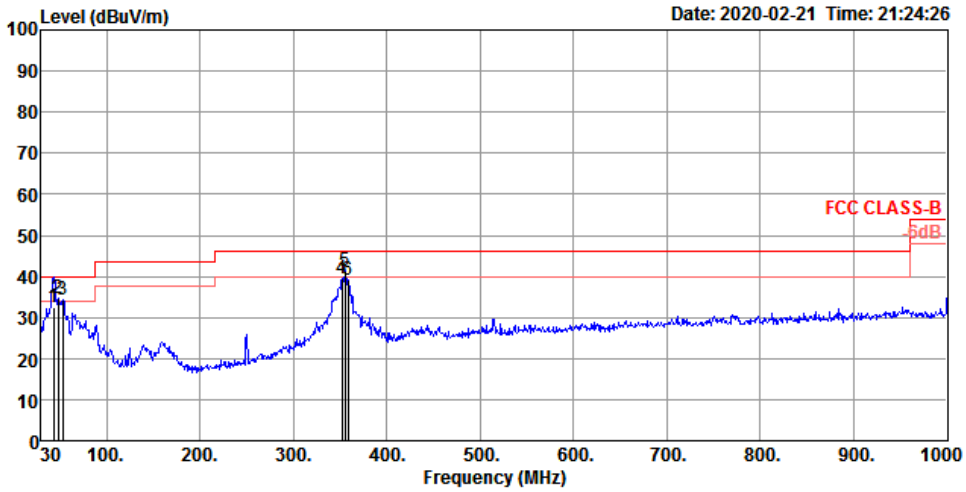
VHT40_Nss1,(MCS0)_2TX **CSE NdB**

2452MHz



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
2.44075G	6.23	-23.77	2.19663G	-55.54	2.39996G	-49.79	2.4835G	-46.66	2.4845G	-45.63	24.91867G	-45.31	1
2.44075G	6.23	-23.77	2.16228G	-56.24	2.4G	-51.59	2.4835G	-49.91	2.48446G	-49.70	24.48957G	-45.25	2

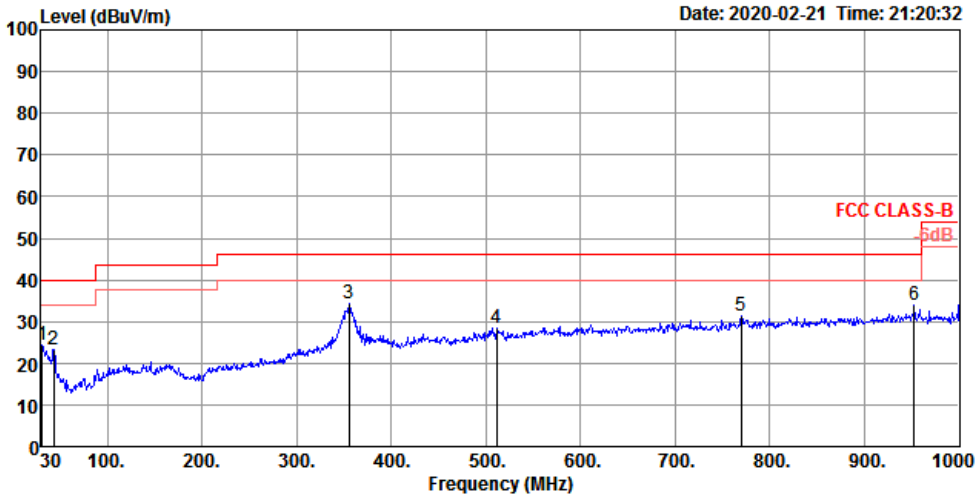
RSE below 1GHz Result			
Operating Mode	2	**Polarization**	Vertical
Operating Function	Normal Link		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	43.58	32.33	40.00	-7.67	47.20	0.80	16.54	32.21	100	49	QP	VERTICAL
2	48.43	34.55	40.00	-5.45	51.57	0.87	14.30	32.19	100	7	Peak	VERTICAL
3	53.28	34.21	40.00	-5.79	52.51	0.90	12.99	32.19	125	234	Peak	VERTICAL
4	352.04	39.34	46.00	-6.66	48.72	2.21	20.25	31.84	150	159	Peak	VERTICAL
5	354.95	41.50	46.00	-4.50	50.76	2.22	20.38	31.86	150	159	Peak	VERTICAL
6	358.83	39.14	46.00	-6.86	48.27	2.24	20.51	31.88	150	135	Peak	VERTICAL

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

RSE below 1GHz Result			
Operating Mode	2	**Polarization**	Horizontal
Operating Function	Normal Link		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	30.97	24.21	40.00	-15.79	32.15	0.70	23.55	32.19	200	90	Peak	HORIZONTAL
2	43.58	23.07	40.00	-16.93	37.94	0.80	16.54	32.21	125	107	Peak	HORIZONTAL
3	354.95	34.23	46.00	-11.77	43.49	2.22	20.38	31.86	100	299	Peak	HORIZONTAL
4	511.12	28.38	46.00	-17.62	34.03	2.62	23.77	32.04	100	0	Peak	HORIZONTAL
5	770.11	31.44	46.00	-14.56	34.18	3.30	25.86	31.90	200	146	Peak	HORIZONTAL
6	952.47	33.91	46.00	-12.09	33.90	3.80	26.93	30.72	150	173	Peak	HORIZONTAL

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

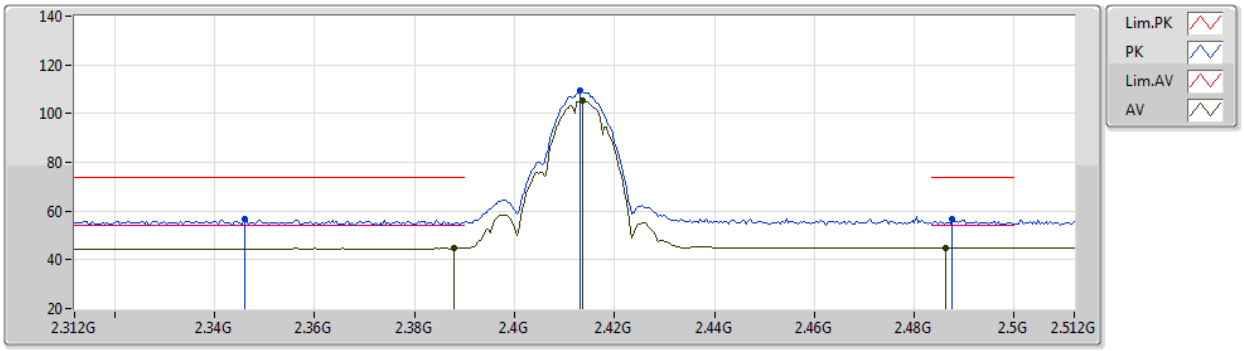
Summary

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	4.82397G	53.99	54.00	-0.01	3	Horizontal	20	2.00	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

17/02/2020



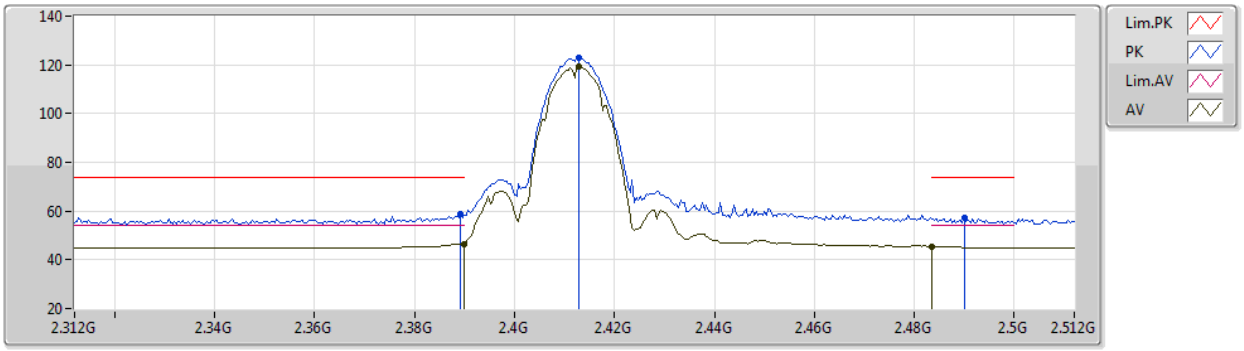
EUT X_2TX
Setting 22
02-D-S-5

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	2.346G	56.50	74.00	-17.50	24.77	3	Vertical	139	1.00	-	28.23	3.50	-
AV	2.388G	44.69	54.00	-9.31	12.75	3	Vertical	139	1.00	-	28.44	3.50	-
PK	2.4132G	109.23	Inf	-Inf	77.22	3	Vertical	139	1.00	-	28.50	3.51	-
AV	2.4136G	105.33	Inf	-Inf	73.32	3	Vertical	139	1.00	-	28.50	3.51	-
PK	2.4876G	56.67	74.00	-17.33	24.58	3	Vertical	139	1.00	-	28.50	3.59	-
AV	2.4864G	44.73	54.00	-9.27	12.64	3	Vertical	139	1.00	-	28.50	3.59	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

17/02/2020



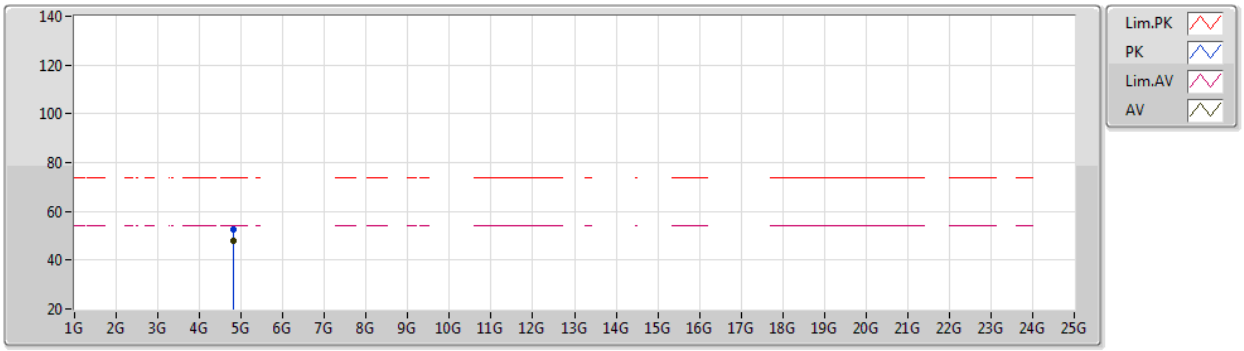
EUT X_2TX
Setting 22
02-D-S-5

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	2.3892G	59.04	74.00	-14.96	27.09	3	Horizontal	198	1.76	-	28.45	3.50	-
AV	2.39G	46.60	54.00	-7.40	14.65	3	Horizontal	198	1.76	-	28.45	3.50	-
PK	2.4128G	123.14	Inf	-Inf	91.13	3	Horizontal	198	1.76	-	28.50	3.51	-
AV	2.4128G	119.12	Inf	-Inf	87.11	3	Horizontal	198	1.76	-	28.50	3.51	-
PK	2.49G	57.25	74.00	-16.75	25.16	3	Horizontal	198	1.76	-	28.50	3.59	-
AV	2.4835G	45.53	54.00	-8.47	13.45	3	Horizontal	198	1.76	-	28.50	3.58	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

17/02/2020



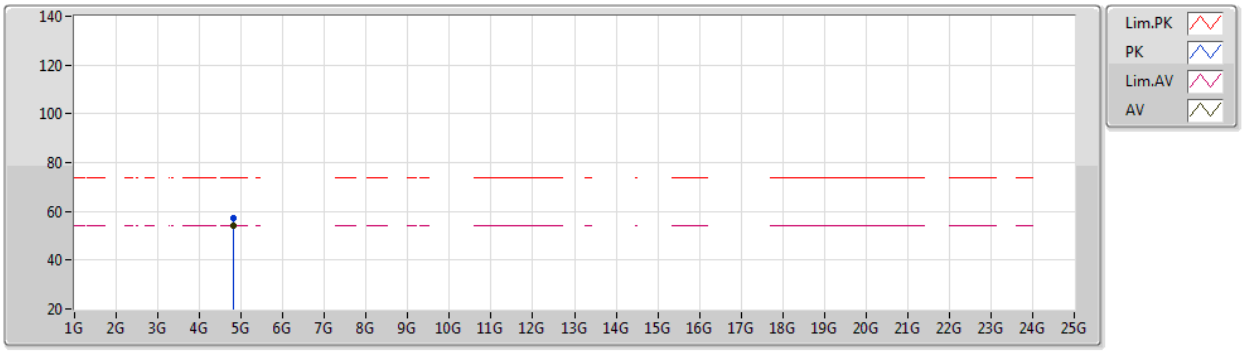
EUT X_2TX
Setting 22
02-D-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.824G	52.69	74.00	-21.31	44.45	3	Vertical	6	2.17	-	32.80	5.81	30.37
AV	4.82398G	47.75	54.00	-6.25	39.51	3	Vertical	6	2.17	-	32.80	5.81	30.37

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

17/02/2020



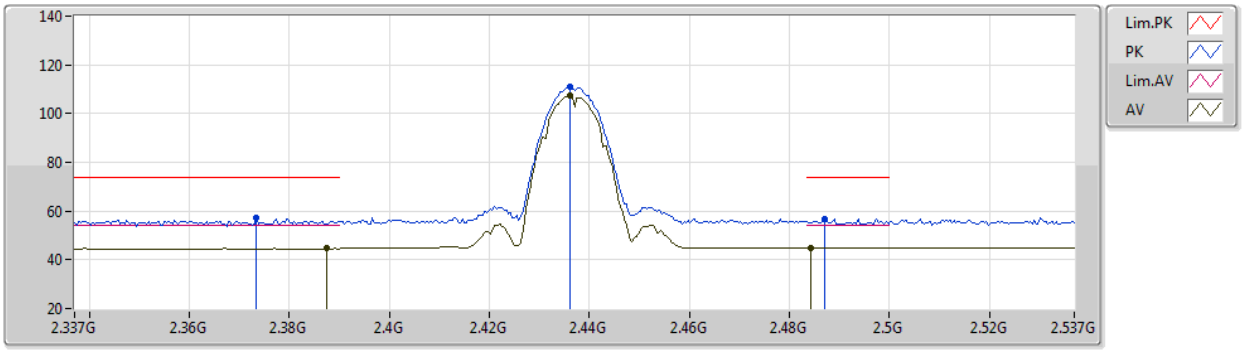
EUT X_2TX
Setting 22
02-D-S-5

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	4.82399G	57.24	74.00	-16.76	49.00	3	Horizontal	20	2.00	-	32.80	5.81	30.37
AV	4.82397G	53.99	54.00	-0.01	45.75	3	Horizontal	20	2.00	-	32.80	5.81	30.37

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

17/02/2020



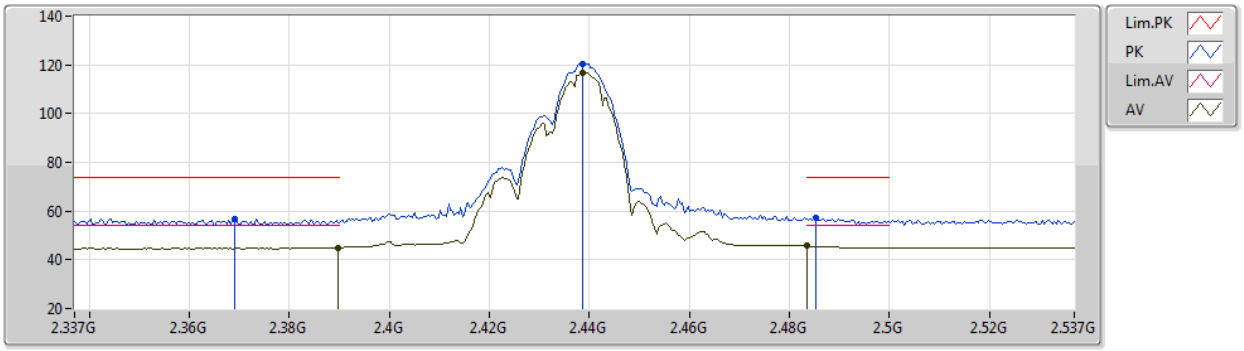
EUT X_2TX
Setting 23.5
02-D-S-5

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	2.3734G	57.00	74.00	-17.00	25.13	3	Vertical	66	1.80	-	28.37	3.50	-
AV	2.3874G	44.61	54.00	-9.39	12.67	3	Vertical	66	1.80	-	28.44	3.50	-
PK	2.4362G	111.11	Inf	-Inf	79.07	3	Vertical	66	1.80	-	28.50	3.54	-
AV	2.4362G	107.36	Inf	-Inf	75.32	3	Vertical	66	1.80	-	28.50	3.54	-
PK	2.487G	56.91	74.00	-17.09	24.82	3	Vertical	66	1.80	-	28.50	3.59	-
AV	2.4842G	44.75	54.00	-9.25	12.67	3	Vertical	66	1.80	-	28.50	3.58	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

17/02/2020



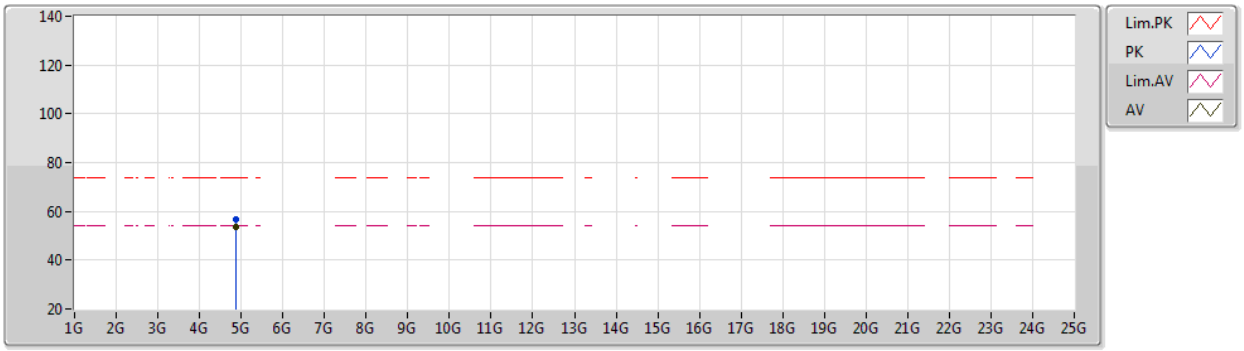
EUT X_2TX
Setting 23.5
02-D-S-5

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	2.369G	56.94	74.00	-17.06	25.10	3	Horizontal	200	1.09	-	28.34	3.50	-
AV	2.3898G	45.00	54.00	-9.00	13.05	3	Horizontal	200	1.09	-	28.45	3.50	-
PK	2.4386G	120.36	Inf	-Inf	88.32	3	Horizontal	200	1.09	-	28.50	3.54	-
AV	2.4386G	116.85	Inf	-Inf	84.81	3	Horizontal	200	1.09	-	28.50	3.54	-
PK	2.4854G	57.33	74.00	-16.67	25.24	3	Horizontal	200	1.09	-	28.50	3.59	-
AV	2.4835G	45.73	54.00	-8.27	13.65	3	Horizontal	200	1.09	-	28.50	3.58	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

17/02/2020



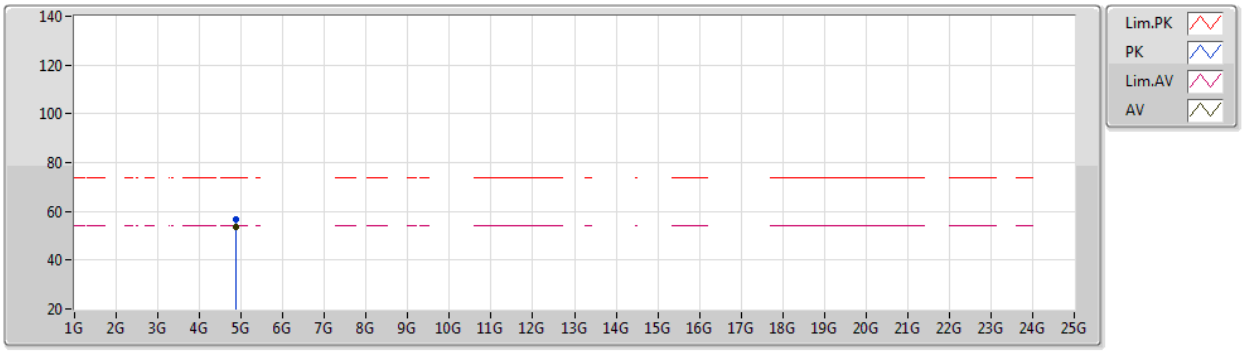
EUT X_2TX
Setting 23.5
02-D-S-5

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	56.75	74.00	-17.25	48.27	3	Vertical	21	1.88	-	33.00	5.84	30.36
AV	4.87396G	53.49	54.00	-0.51	45.01	3	Vertical	21	1.88	-	33.00	5.84	30.36

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

17/02/2020



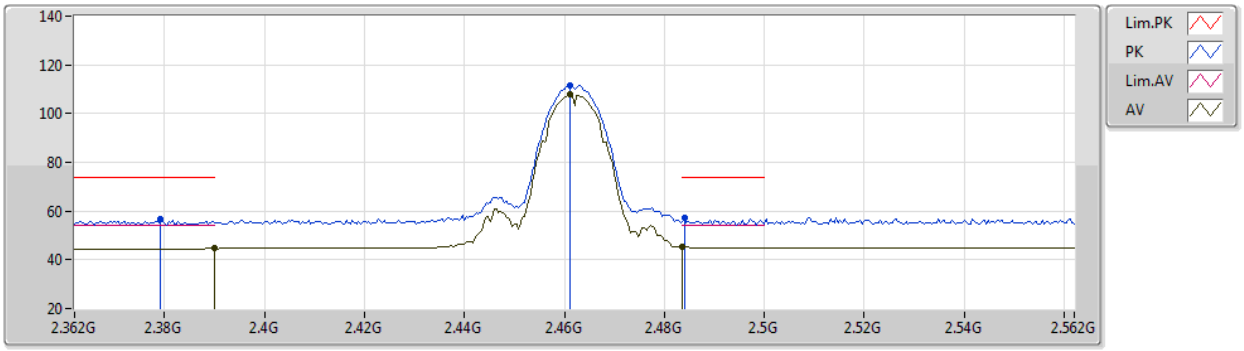
EUT X_2TX
Setting 23.5
02-D-S-5

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	4.87394G	56.57	74.00	-17.43	48.09	3	Horizontal	20	1.94	-	33.00	5.84	30.36
AV	4.87394G	53.70	54.00	-0.30	45.22	3	Horizontal	20	1.94	-	33.00	5.84	30.36

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

17/02/2020



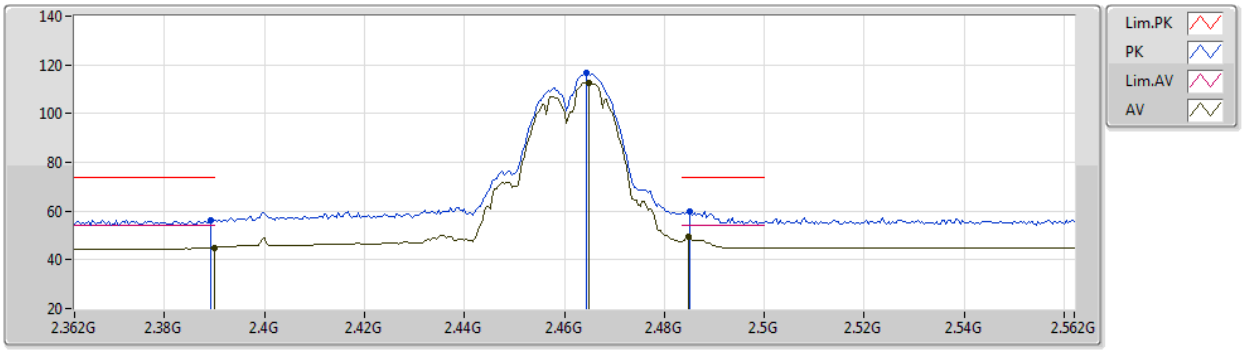
EUT X_2TX
Setting 23.5
02-D-S-5

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	2.3792G	56.57	74.00	-17.43	24.67	3	Vertical	79	1.80	-	28.40	3.50	-
AV	2.39G	44.61	54.00	-9.39	12.66	3	Vertical	79	1.80	-	28.45	3.50	-
PK	2.4612G	111.66	Inf	-Inf	79.60	3	Vertical	79	1.80	-	28.50	3.56	-
AV	2.4612G	107.93	Inf	-Inf	75.87	3	Vertical	79	1.80	-	28.50	3.56	-
PK	2.484G	57.07	74.00	-16.93	24.99	3	Vertical	79	1.80	-	28.50	3.58	-
AV	2.4835G	45.30	54.00	-8.70	13.22	3	Vertical	79	1.80	-	28.50	3.58	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

17/02/2020



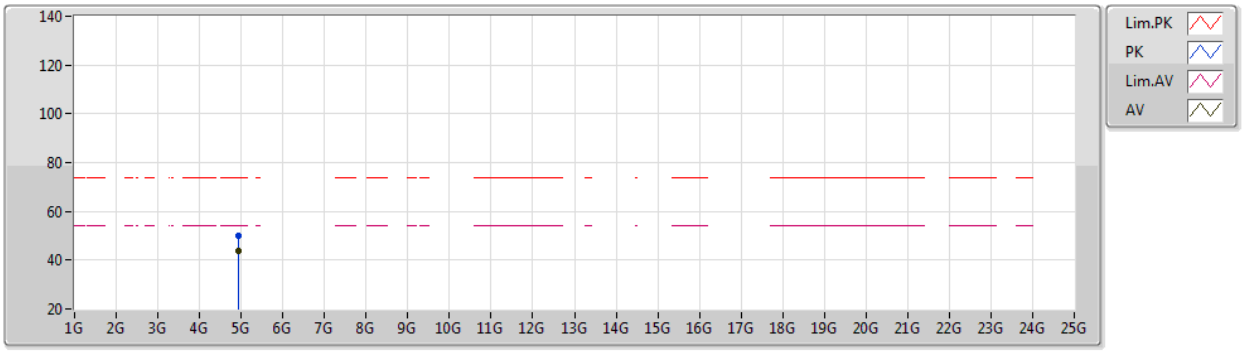
EUT X_2TX
Setting 23.5
02-D-S-5

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	2.3892G	56.37	74.00	-17.63	24.42	3	Horizontal	204	1.54	-	28.45	3.50	-
AV	2.39G	45.05	54.00	-8.95	13.10	3	Horizontal	204	1.54	-	28.45	3.50	-
PK	2.4644G	116.74	Inf	-Inf	84.68	3	Horizontal	204	1.54	-	28.50	3.56	-
AV	2.4648G	112.81	Inf	-Inf	80.75	3	Horizontal	204	1.54	-	28.50	3.56	-
PK	2.4852G	59.59	74.00	-14.41	27.50	3	Horizontal	204	1.54	-	28.50	3.59	-
AV	2.4848G	49.72	54.00	-4.28	17.64	3	Horizontal	204	1.54	-	28.50	3.58	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

17/02/2020



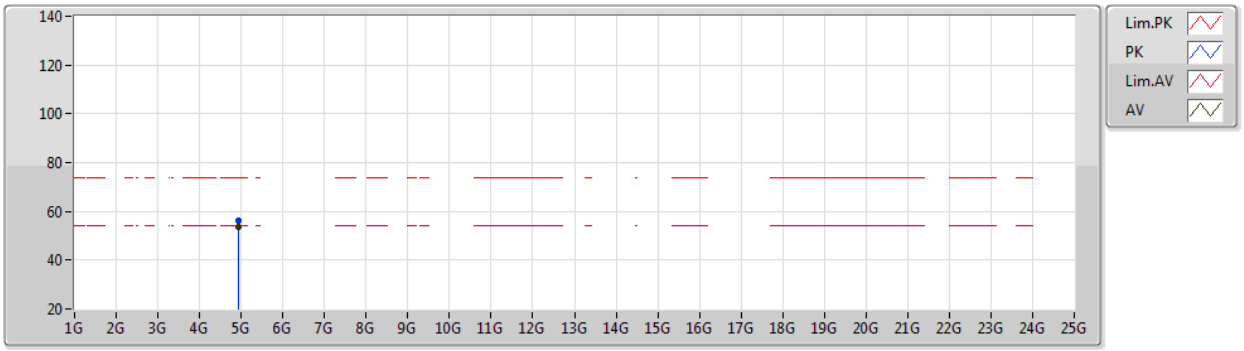
EUT X_2TX
Setting 23.5
02-D-S-5

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	4.92392G	50.19	74.00	-22.81	42.53	3	Vertical	20	1.31	-	33.15	5.86	30.35
AV	4.92394G	43.79	54.00	-9.21	36.13	3	Vertical	20	1.31	-	33.15	5.86	30.35

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

18/02/2020



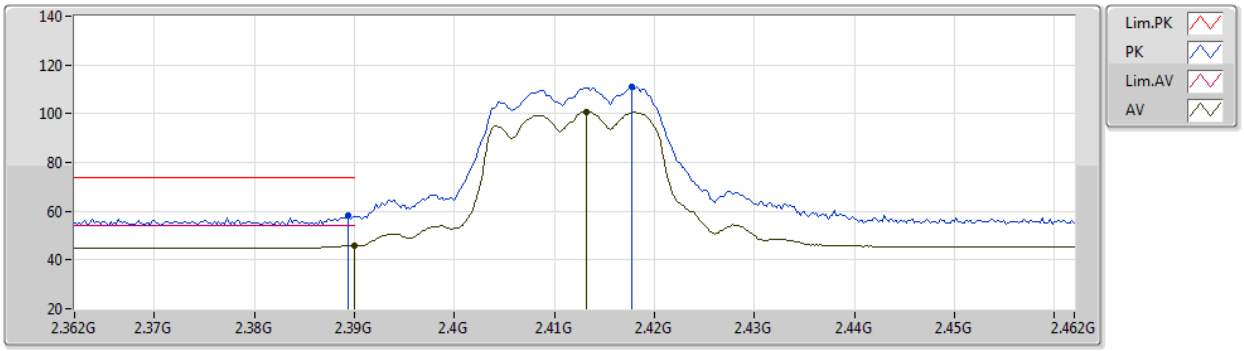
EUT X_2TX
Setting 23.5
02-D-S-5

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	56.08	74.00	-17.92	47.42	3	Horizontal	27	1.91	-	33.15	5.86	30.35
AV	4.924G	53.65	54.00	-0.35	44.99	3	Horizontal	27	1.91	-	33.15	5.86	30.35

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

17/02/2020



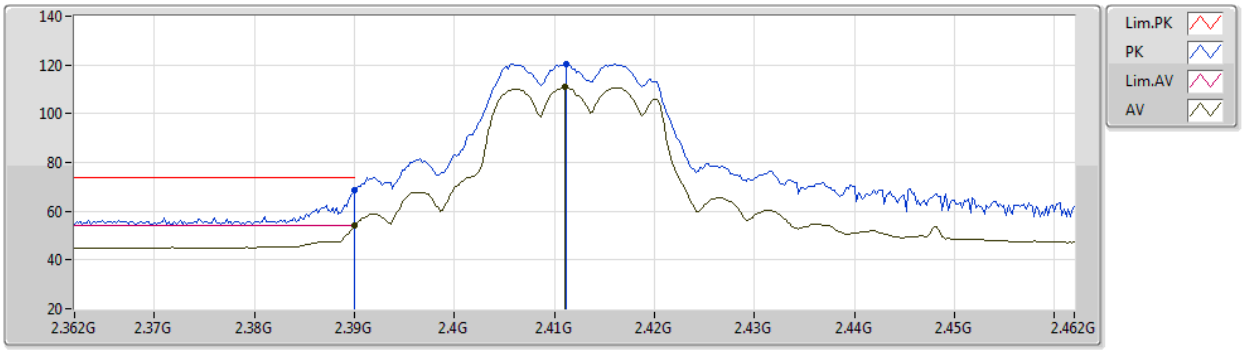
EUT X_2TX
Setting 19
02-D-S-5

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	58.18	74.00	-15.82	26.23	3	Vertical	135	2.33	-	28.45	3.50	-
AV	2.39G	45.83	54.00	-8.17	13.88	3	Vertical	135	2.33	-	28.45	3.50	-
PK	2.4178G	111.05	Inf	-Inf	79.03	3	Vertical	135	2.33	-	28.50	3.52	-
AV	2.4132G	100.87	Inf	-Inf	68.86	3	Vertical	135	2.33	-	28.50	3.51	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

17/02/2020



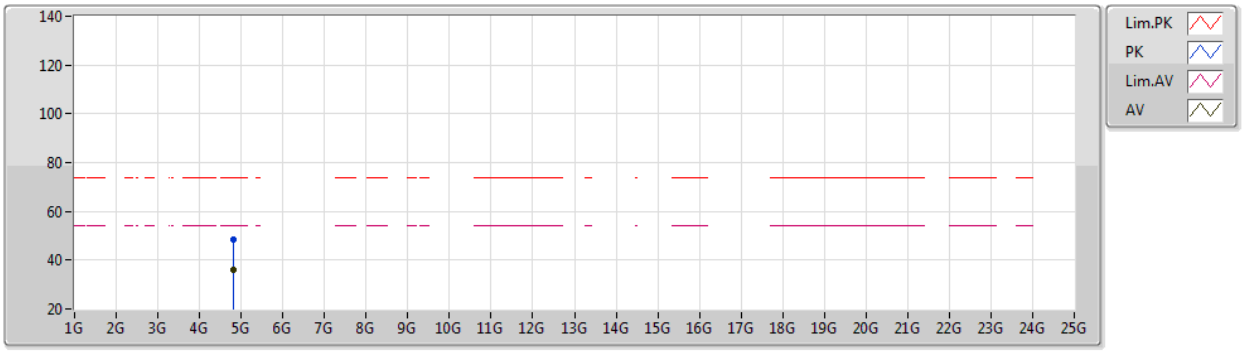
EUT X_2TX
Setting 19
02-D-S-5

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	68.84	74.00	-5.16	36.89	3	Horizontal	197	2.91	-	28.45	3.50	-
AV	2.39G	53.98	54.00	-0.02	22.03	3	Horizontal	197	2.91	-	28.45	3.50	-
PK	2.4112G	120.43	Inf	-Inf	88.42	3	Horizontal	197	2.91	-	28.50	3.51	-
AV	2.411G	110.88	Inf	-Inf	78.87	3	Horizontal	197	2.91	-	28.50	3.51	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

18/02/2020



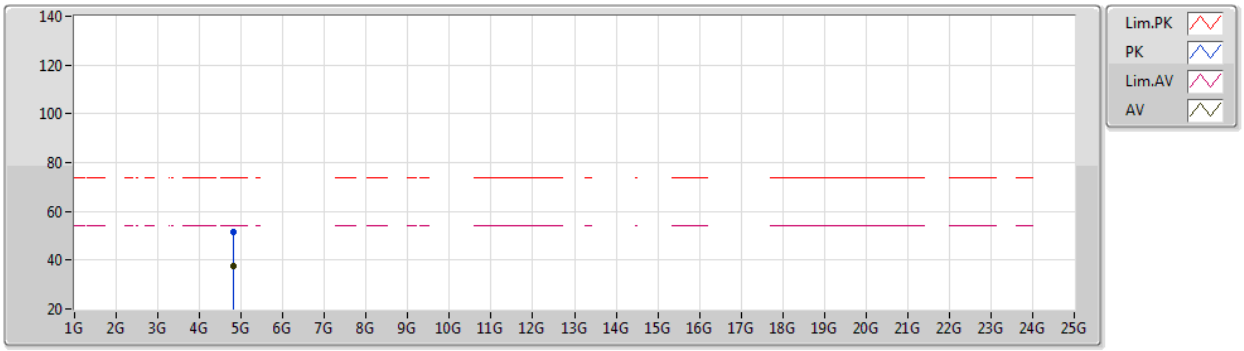
EUT X_2TX
Setting 19
02-D-S-5

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	4.82474G	48.63	74.00	-25.37	40.39	3	Vertical	17	2.09	-	32.80	5.81	30.37
AV	4.82402G	36.28	54.00	-17.72	28.04	3	Vertical	17	2.09	-	32.80	5.81	30.37

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

18/02/2020



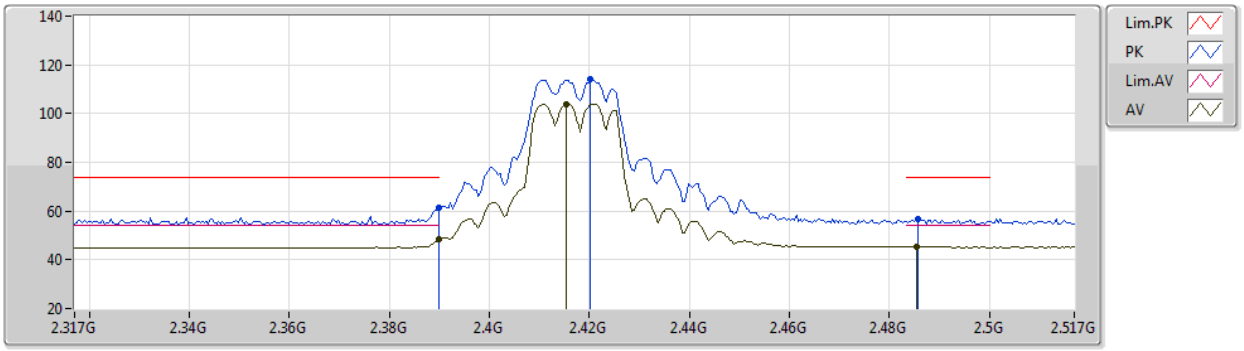
EUT X_2TX
Setting 19
02-D-S-5

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	4.82028G	51.35	74.00	-22.65	43.13	3	Horizontal	17	1.80	-	32.78	5.81	30.37
AV	4.82402G	37.84	54.00	-16.16	29.60	3	Horizontal	17	1.80	-	32.80	5.81	30.37

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

17/02/2020



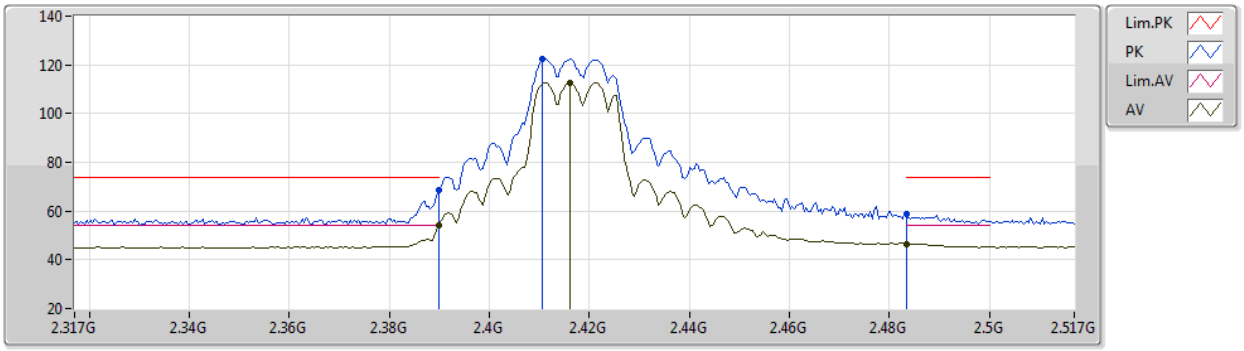
EUT X_2TX
Setting 21
02-D-S-5

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	61.30	74.00	-12.70	29.35	3	Vertical	91	2.86	-	28.45	3.50	-
AV	2.3898G	48.33	54.00	-5.67	16.38	3	Vertical	91	2.86	-	28.45	3.50	-
PK	2.4202G	113.90	Inf	-Inf	81.88	3	Vertical	91	2.86	-	28.50	3.52	-
AV	2.4154G	104.03	Inf	-Inf	72.01	3	Vertical	91	2.86	-	28.50	3.52	-
PK	2.4858G	56.47	74.00	-17.53	24.38	3	Vertical	91	2.86	-	28.50	3.59	-
AV	2.4854G	45.56	54.00	-8.44	13.47	3	Vertical	91	2.86	-	28.50	3.59	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

17/02/2020



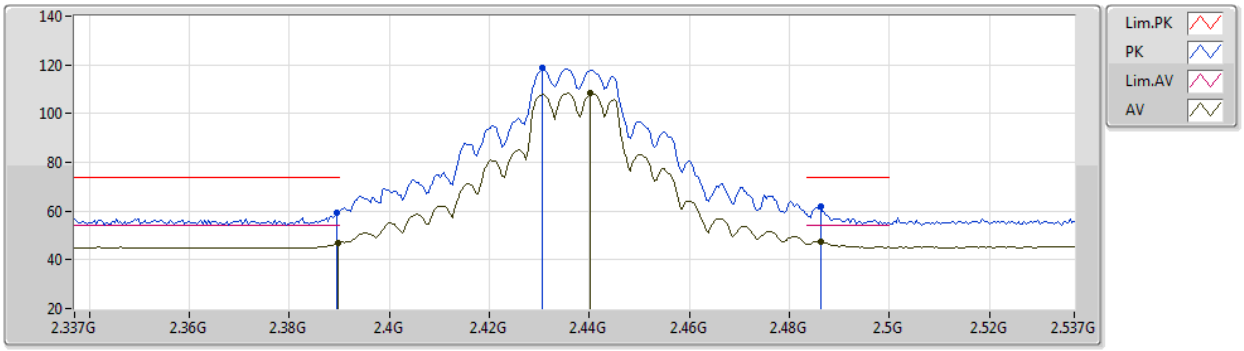
EUT X_2TX
Setting 21
02-D-S-5

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	68.49	74.00	-5.51	36.54	3	Horizontal	197	2.89	-	28.45	3.50	-
AV	2.3898G	53.95	54.00	-0.05	22.00	3	Horizontal	197	2.89	-	28.45	3.50	-
PK	2.4106G	122.52	Inf	-Inf	90.51	3	Horizontal	197	2.89	-	28.50	3.51	-
AV	2.4162G	112.72	Inf	-Inf	80.70	3	Horizontal	197	2.89	-	28.50	3.52	-
PK	2.4835G	58.98	74.00	-15.02	26.90	3	Horizontal	197	2.89	-	28.50	3.58	-
AV	2.4835G	46.49	54.00	-7.51	14.41	3	Horizontal	197	2.89	-	28.50	3.58	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

17/02/2020



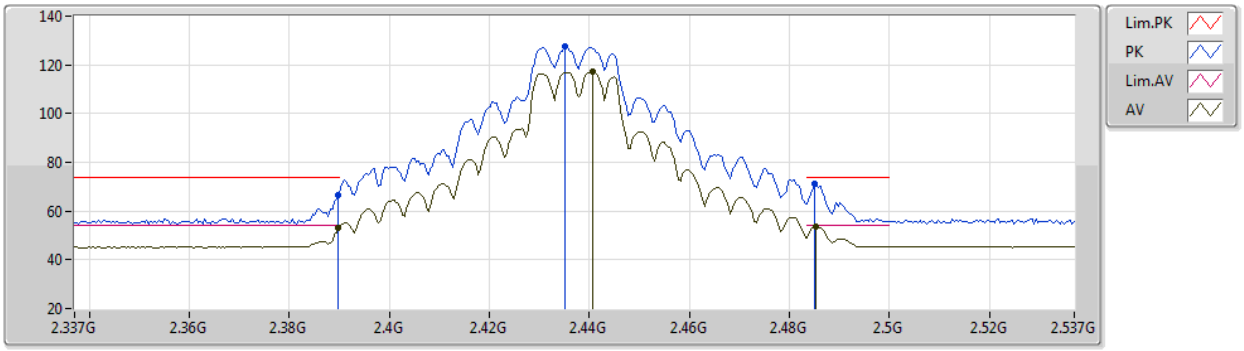
EUT X_2TX
Setting 26
02-D-S-5

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	59.44	74.00	-14.56	27.49	3	Vertical	93	2.83	-	28.45	3.50	-
AV	2.3898G	47.04	54.00	-6.96	15.09	3	Vertical	93	2.83	-	28.45	3.50	-
PK	2.4306G	118.56	Inf	-Inf	86.53	3	Vertical	93	2.83	-	28.50	3.53	-
AV	2.4402G	108.25	Inf	-Inf	76.21	3	Vertical	93	2.83	-	28.50	3.54	-
PK	2.4862G	61.92	74.00	-12.08	29.83	3	Vertical	93	2.83	-	28.50	3.59	-
AV	2.4862G	47.38	54.00	-6.62	15.29	3	Vertical	93	2.83	-	28.50	3.59	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

17/02/2020



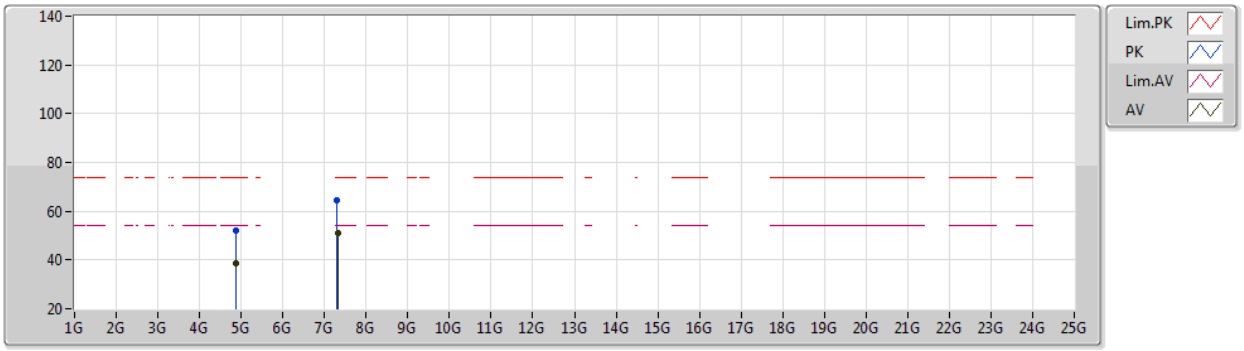
EUT X_2TX
Setting 26
02-D-S-5

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	66.46	74.00	-7.54	34.51	3	Horizontal	198	2.58	-	28.45	3.50	-
AV	2.3898G	53.07	54.00	-0.93	21.12	3	Horizontal	198	2.58	-	28.45	3.50	-
PK	2.435G	127.46	Inf	-Inf	95.42	3	Horizontal	198	2.58	-	28.50	3.54	-
AV	2.4406G	117.30	Inf	-Inf	85.26	3	Horizontal	198	2.58	-	28.50	3.54	-
PK	2.485G	71.04	74.00	-2.96	38.95	3	Horizontal	198	2.58	-	28.50	3.59	-
AV	2.4854G	53.59	54.00	-0.41	21.50	3	Horizontal	198	2.58	-	28.50	3.59	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

18/02/2020



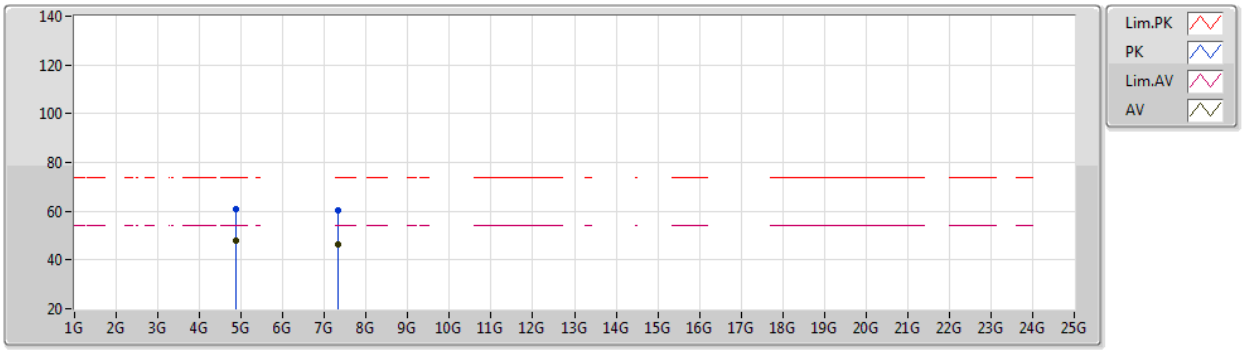
EUT X_2TX
Setting 26
02-D-S-5

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	4.87414G	51.86	74.00	-22.14	43.38	3	Vertical	59	2.45	-	33.00	5.84	30.36
AV	4.87428G	38.83	54.00	-15.17	30.35	3	Vertical	59	2.45	-	33.00	5.84	30.36
PK	7.30602G	64.51	74.00	-9.49	52.53	3	Vertical	42	1.54	-	36.41	6.97	31.40
AV	7.31128G	50.79	54.00	-3.21	38.82	3	Vertical	42	1.54	-	36.42	6.96	31.41

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

18/02/2020



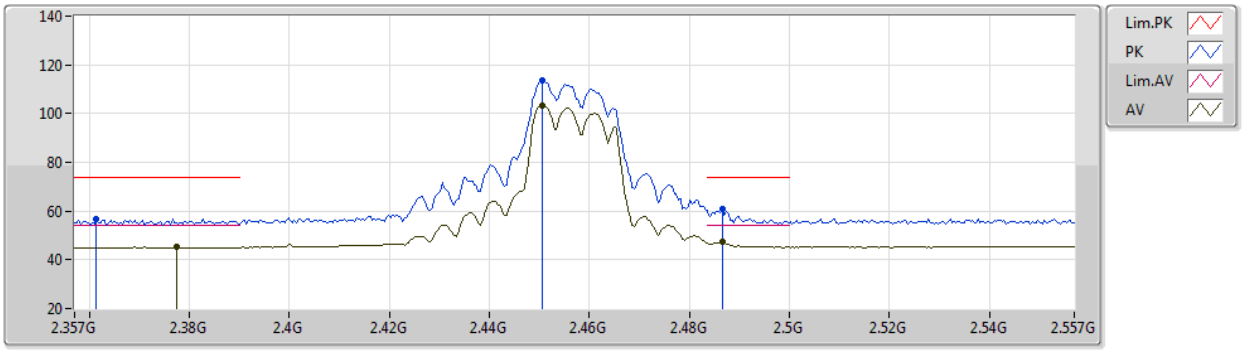
EUT X_2TX
Setting 26
02-D-S-5

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	4.87518G	60.99	74.00	-13.01	52.51	3	Horizontal	21	1.96	-	33.00	5.84	30.36
AV	4.87428G	47.88	54.00	-6.12	39.40	3	Horizontal	21	1.96	-	33.00	5.84	30.36
PK	7.31118G	60.24	74.00	-13.76	48.27	3	Horizontal	326	1.80	-	36.42	6.96	31.41
AV	7.31122G	46.23	54.00	-7.77	34.26	3	Horizontal	326	1.80	-	36.42	6.96	31.41

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

17/02/2020



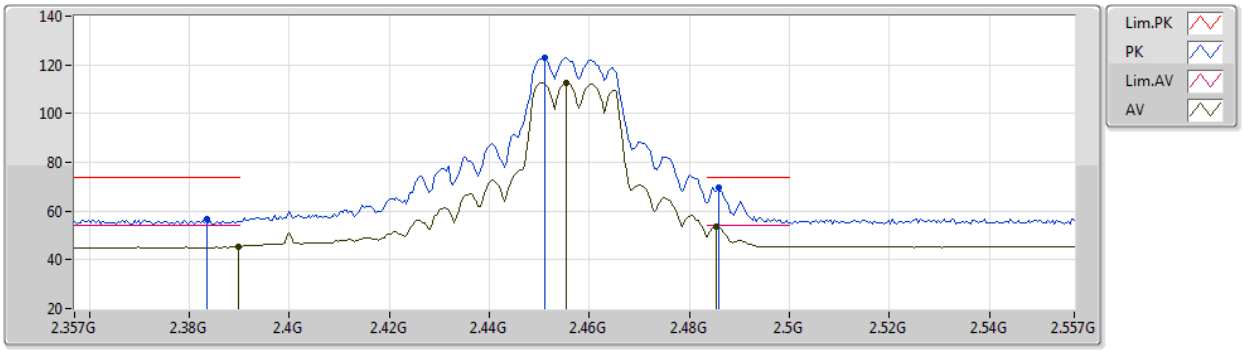
EUT X_2TX
Setting 20.5
02-D-S-5

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	2.3614G	56.76	74.00	-17.24	24.95	3	Vertical	92	2.83	-	28.31	3.50	-
AV	2.3774G	45.12	54.00	-8.88	13.23	3	Vertical	92	2.83	-	28.39	3.50	-
PK	2.4506G	113.59	Inf	-Inf	81.54	3	Vertical	92	2.83	-	28.50	3.55	-
AV	2.4506G	103.27	Inf	-Inf	71.22	3	Vertical	92	2.83	-	28.50	3.55	-
PK	2.4866G	60.87	74.00	-13.13	28.78	3	Vertical	92	2.83	-	28.50	3.59	-
AV	2.4866G	47.21	54.00	-6.79	15.12	3	Vertical	92	2.83	-	28.50	3.59	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

17/02/2020



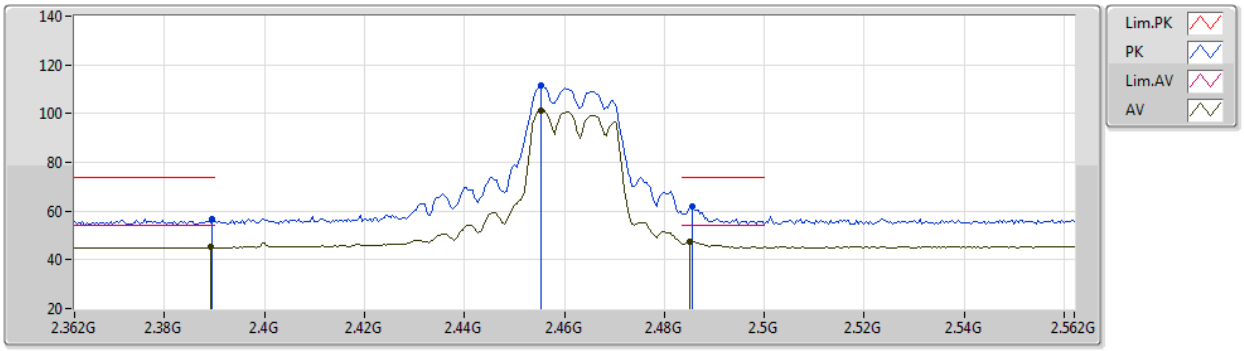
EUT X_2TX
Setting 20.5
02-D-S-5

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	2.3834G	56.58	74.00	-17.42	24.66	3	Horizontal	200	2.56	-	28.42	3.50	-
AV	2.3898G	45.37	54.00	-8.63	13.42	3	Horizontal	200	2.56	-	28.45	3.50	-
PK	2.451G	122.79	Inf	-Inf	90.74	3	Horizontal	200	2.56	-	28.50	3.55	-
AV	2.4554G	112.76	Inf	-Inf	80.70	3	Horizontal	200	2.56	-	28.50	3.56	-
PK	2.4858G	69.87	74.00	-4.13	37.78	3	Horizontal	200	2.56	-	28.50	3.59	-
AV	2.4854G	53.69	54.00	-0.31	21.60	3	Horizontal	200	2.56	-	28.50	3.59	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

17/02/2020



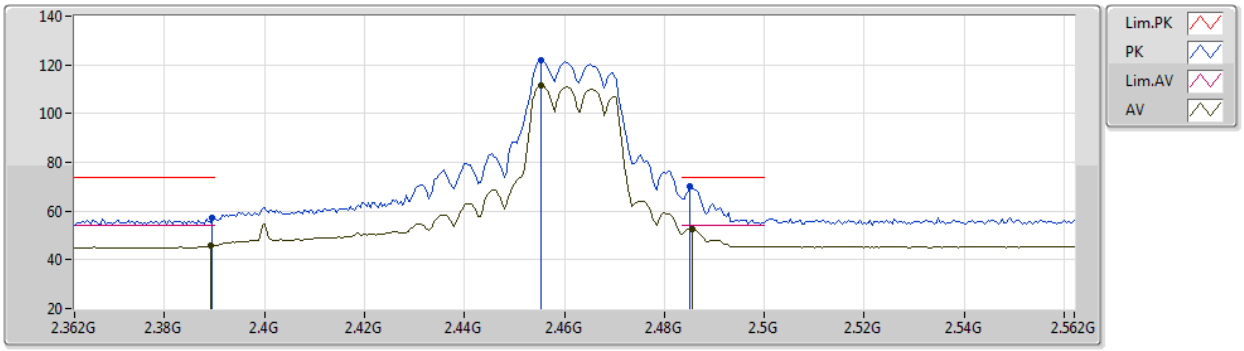
EUT X_2TX
Setting 19.5
02-D-S-5

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	56.62	74.00	-17.38	24.67	3	Vertical	92	2.78	-	28.45	3.50	-
AV	2.3892G	45.17	54.00	-8.83	13.22	3	Vertical	92	2.78	-	28.45	3.50	-
PK	2.4552G	111.63	Inf	-Inf	79.57	3	Vertical	92	2.78	-	28.50	3.56	-
AV	2.4552G	101.45	Inf	-Inf	69.39	3	Vertical	92	2.78	-	28.50	3.56	-
PK	2.4856G	62.03	74.00	-11.97	29.94	3	Vertical	92	2.78	-	28.50	3.59	-
AV	2.4852G	47.44	54.00	-6.56	15.35	3	Vertical	92	2.78	-	28.50	3.59	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

17/02/2020



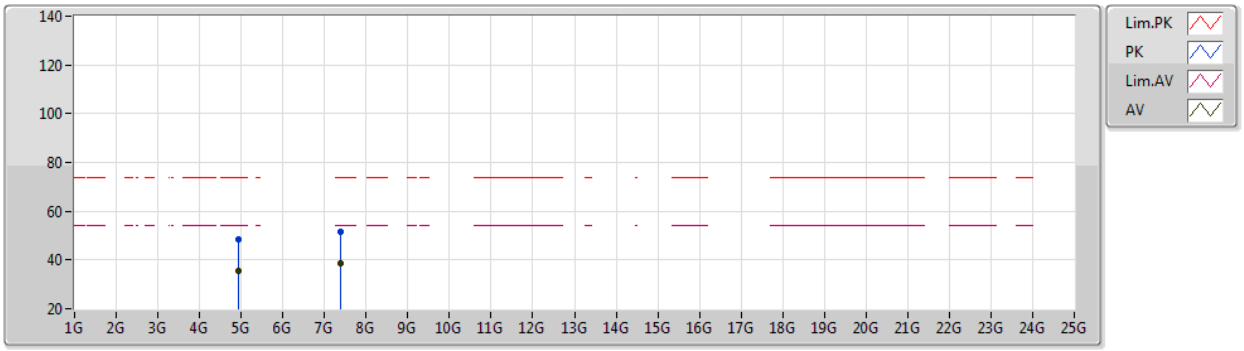
EUT X_2TX
Setting 19.5
02-D-S-5

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	57.19	74.00	-16.81	25.24	3	Horizontal	200	2.57	-	28.45	3.50	-
AV	2.3892G	45.86	54.00	-8.14	13.91	3	Horizontal	200	2.57	-	28.45	3.50	-
PK	2.4552G	121.82	Inf	-Inf	89.76	3	Horizontal	200	2.57	-	28.50	3.56	-
AV	2.4552G	111.66	Inf	-Inf	79.60	3	Horizontal	200	2.57	-	28.50	3.56	-
PK	2.4852G	69.97	74.00	-4.03	37.88	3	Horizontal	200	2.57	-	28.50	3.59	-
AV	2.4856G	52.84	54.00	-1.16	20.75	3	Horizontal	200	2.57	-	28.50	3.59	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

18/02/2020



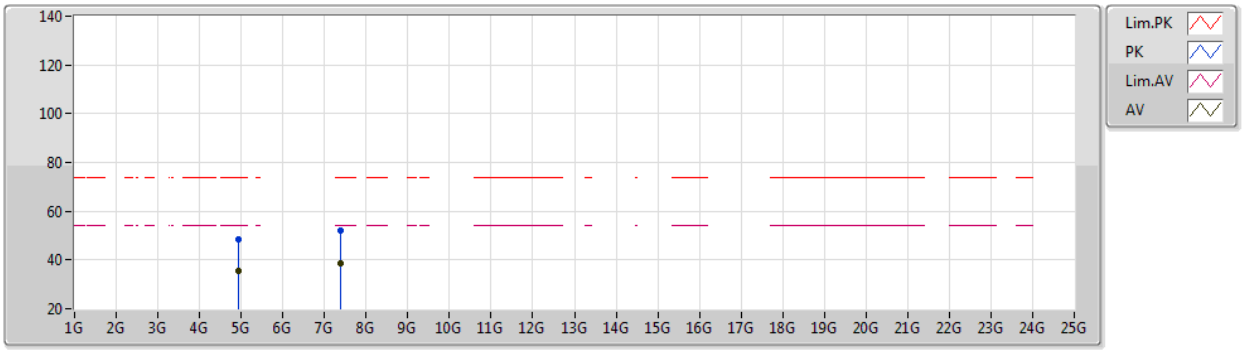
EUT X_2TX
Setting 19.5
02-D-S-5

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	4.9231G	48.41	74.00	-25.59	39.75	3	Vertical	9	2.75	-	33.15	5.86	30.35
AV	4.92396G	35.32	54.00	-18.68	26.66	3	Vertical	9	2.75	-	33.15	5.86	30.35
PK	7.3908G	51.50	74.00	-22.50	39.56	3	Vertical	47	2.14	-	36.58	6.82	31.46
AV	7.38874G	38.42	54.00	-15.58	26.48	3	Vertical	47	2.14	-	36.58	6.82	31.46

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

18/02/2020



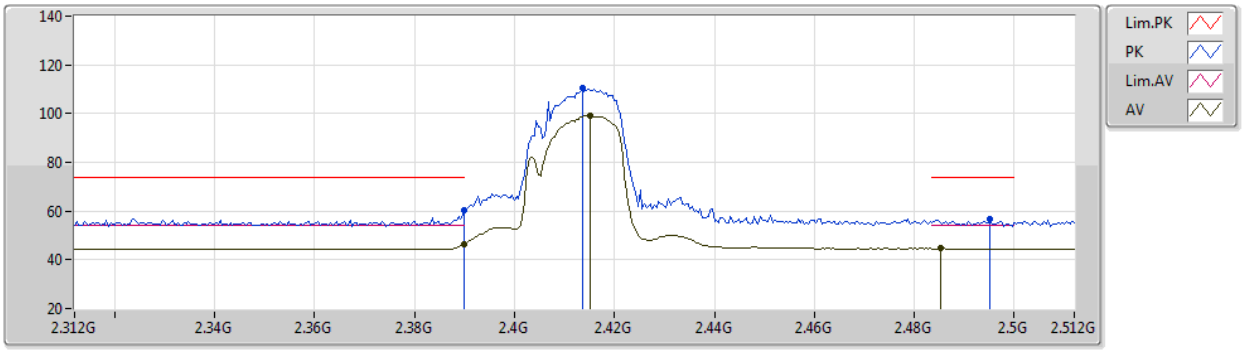
EUT X_2TX
Setting 19.5
02-D-S-5

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	4.92598G	48.59	74.00	-25.41	39.92	3	Horizontal	6	1.79	-	33.15	5.86	30.34
AV	4.9239G	35.36	54.00	-18.64	26.70	3	Horizontal	6	1.79	-	33.15	5.86	30.35
PK	7.3873G	51.94	74.00	-22.06	40.01	3	Horizontal	322	1.80	-	36.57	6.82	31.46
AV	7.38182G	38.56	54.00	-15.44	26.63	3	Horizontal	322	1.80	-	36.56	6.83	31.46

VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

19/02/2020



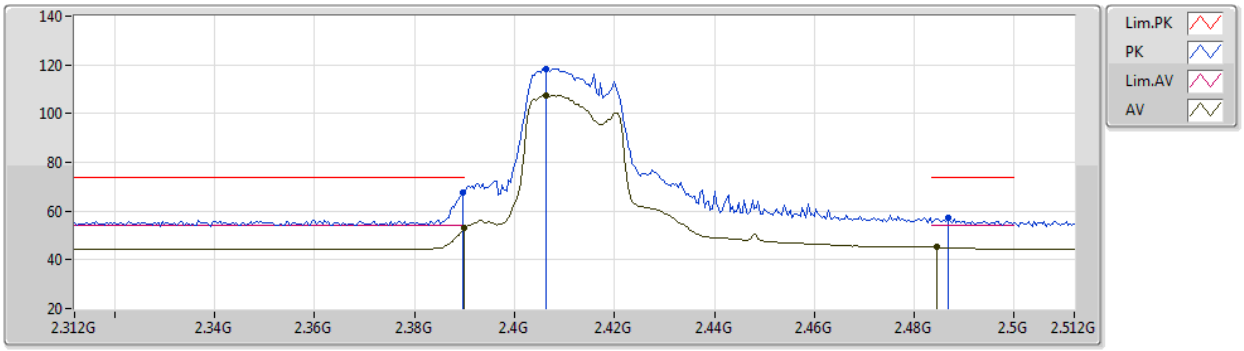
EUT X_2TX
Setting 18.5
02-D-C-4

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	60.40	74.00	-13.60	28.45	3	Vertical	81	1.82	-	28.45	3.50	-
AV	2.39G	46.57	54.00	-7.43	14.62	3	Vertical	81	1.82	-	28.45	3.50	-
PK	2.4136G	110.27	Inf	-Inf	78.26	3	Vertical	81	1.82	-	28.50	3.51	-
AV	2.4152G	99.30	Inf	-Inf	67.28	3	Vertical	81	1.82	-	28.50	3.52	-
PK	2.4952G	56.69	74.00	-17.31	24.59	3	Vertical	81	1.82	-	28.50	3.60	-
AV	2.4852G	44.59	54.00	-9.41	12.50	3	Vertical	81	1.82	-	28.50	3.59	-

VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

19/02/2020



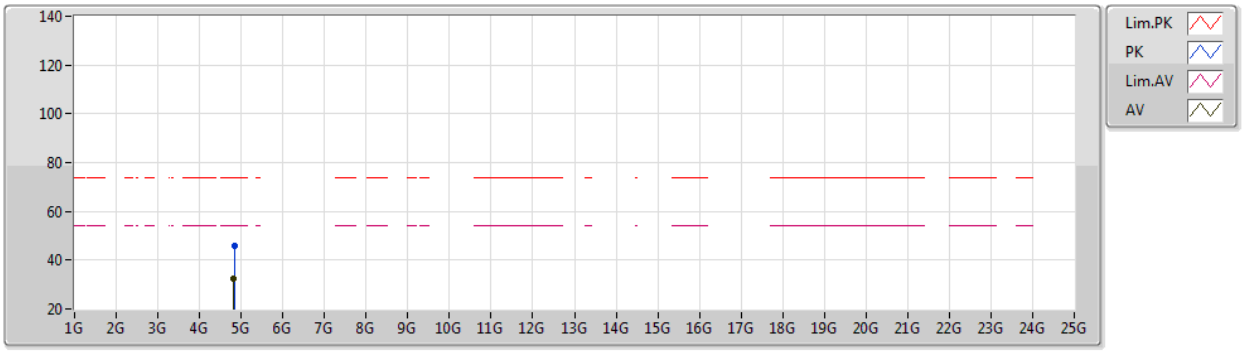
EUT X_2TX
Setting 18.5
02-D-C-4

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	67.81	74.00	-6.19	35.86	3	Horizontal	201	2.66	-	28.45	3.50	-
AV	2.39G	52.97	54.00	-1.03	21.02	3	Horizontal	201	2.66	-	28.45	3.50	-
PK	2.4064G	118.51	Inf	-Inf	86.50	3	Horizontal	201	2.66	-	28.50	3.51	-
AV	2.4064G	107.64	Inf	-Inf	75.63	3	Horizontal	201	2.66	-	28.50	3.51	-
PK	2.4868G	57.08	74.00	-16.92	24.99	3	Horizontal	201	2.66	-	28.50	3.59	-
AV	2.4844G	45.19	54.00	-8.81	13.11	3	Horizontal	201	2.66	-	28.50	3.58	-

VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

19/02/2020



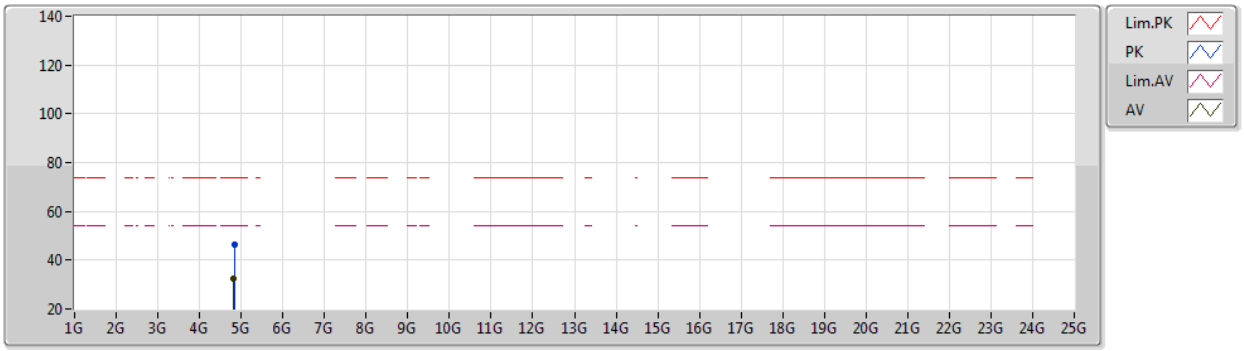
EUT X_2TX
Setting 18.5
02-D-C-4

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	4.83288G	46.09	74.00	-27.91	37.81	3	Vertical	69	1.80	-	32.83	5.82	30.37
AV	4.814G	32.58	54.00	-21.42	24.39	3	Vertical	69	1.80	-	32.76	5.81	30.38

VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

19/02/2020



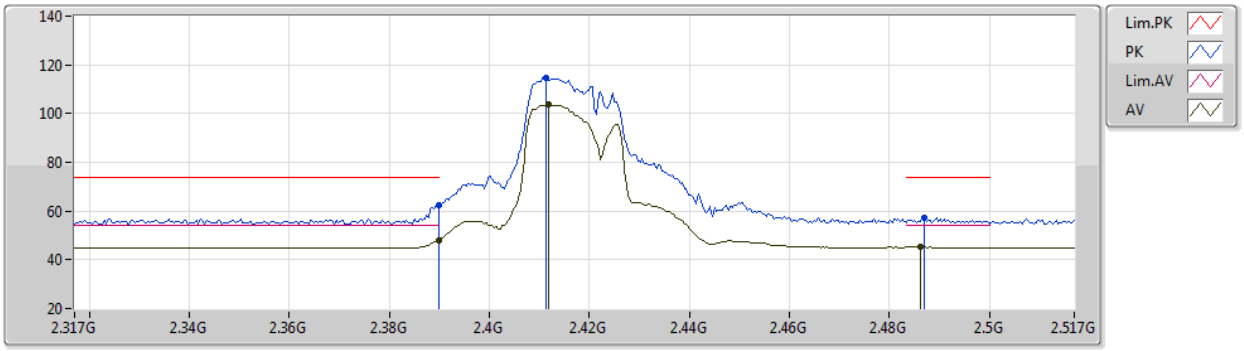
EUT X_2TX
Setting 18.5
02-D-C-4

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	4.83228G	46.35	74.00	-27.65	38.07	3	Horizontal	21	2.02	-	32.83	5.82	30.37
AV	4.81428G	32.50	54.00	-21.50	24.31	3	Horizontal	21	2.02	-	32.76	5.81	30.38

VHT20_Nss1,(MCS0)_2TX

2417MHz_TX

18/02/2020



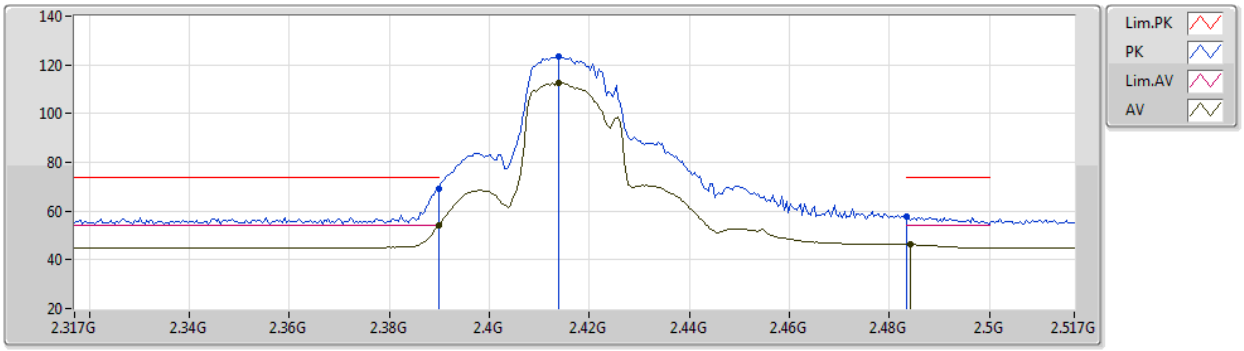
EUT X_2TX
Setting 21
02-D-S-5

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	62.64	74.00	-11.36	30.69	3	Vertical	90	2.87	-	28.45	3.50	-
AV	2.3898G	48.01	54.00	-5.99	16.06	3	Vertical	90	2.87	-	28.45	3.50	-
PK	2.4114G	114.55	Inf	-Inf	82.54	3	Vertical	90	2.87	-	28.50	3.51	-
AV	2.4118G	103.74	Inf	-Inf	71.73	3	Vertical	90	2.87	-	28.50	3.51	-
PK	2.487G	57.46	74.00	-16.54	25.37	3	Vertical	90	2.87	-	28.50	3.59	-
AV	2.4862G	45.15	54.00	-8.85	13.06	3	Vertical	90	2.87	-	28.50	3.59	-

VHT20_Nss1,(MCS0)_2TX

2417MHz_TX

18/02/2020



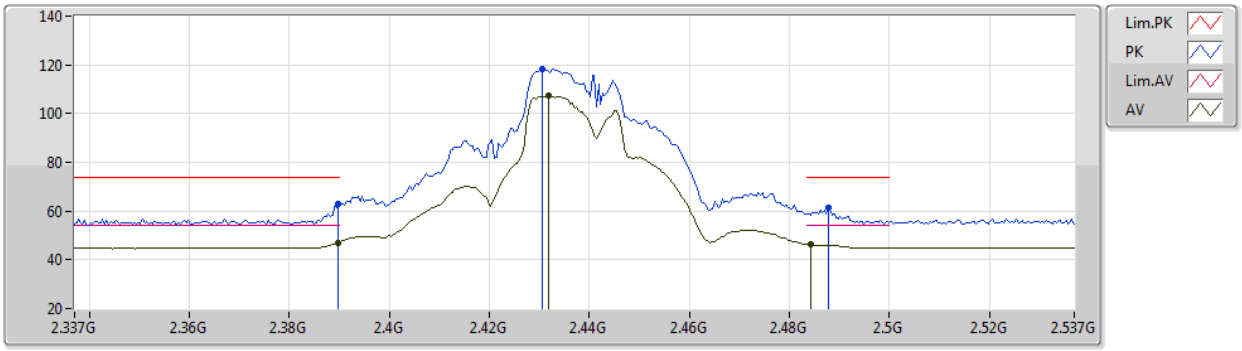
EUT X_2TX
Setting 21
02-D-S-5

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	69.19	74.00	-4.81	37.24	3	Horizontal	194	2.89	-	28.45	3.50	-
AV	2.3898G	53.93	54.00	-0.07	21.98	3	Horizontal	194	2.89	-	28.45	3.50	-
PK	2.4138G	123.45	Inf	-Inf	91.44	3	Horizontal	194	2.89	-	28.50	3.51	-
AV	2.4138G	112.52	Inf	-Inf	80.51	3	Horizontal	194	2.89	-	28.50	3.51	-
PK	2.4835G	57.76	74.00	-16.24	25.68	3	Horizontal	194	2.89	-	28.50	3.58	-
AV	2.4842G	46.25	54.00	-7.75	14.17	3	Horizontal	194	2.89	-	28.50	3.58	-

VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

17/02/2020



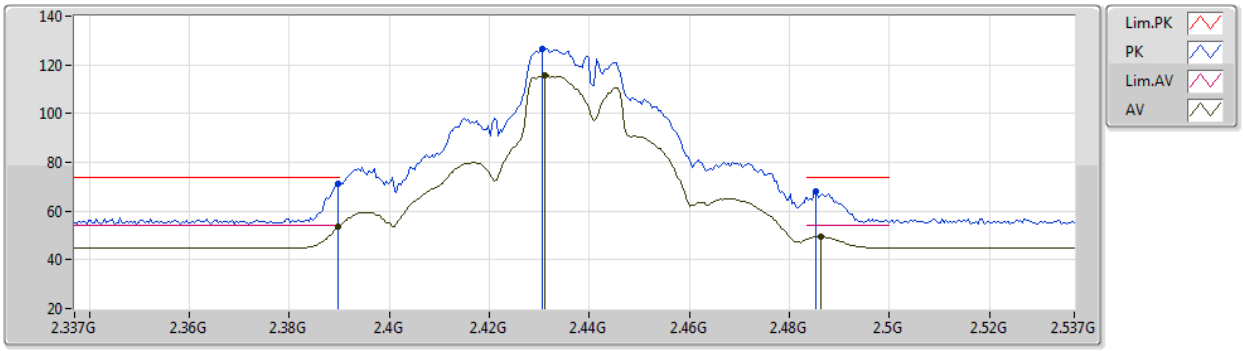
EUT X_2TX
Setting 25.5
02-D-S-5

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	62.72	74.00	-11.28	30.77	3	Vertical	92	2.84	-	28.45	3.50	-
AV	2.3898G	47.13	54.00	-6.87	15.18	3	Vertical	92	2.84	-	28.45	3.50	-
PK	2.4306G	118.14	Inf	-Inf	86.11	3	Vertical	92	2.84	-	28.50	3.53	-
AV	2.4318G	107.32	Inf	-Inf	75.29	3	Vertical	92	2.84	-	28.50	3.53	-
PK	2.4878G	61.19	74.00	-12.81	29.10	3	Vertical	92	2.84	-	28.50	3.59	-
AV	2.4842G	46.27	54.00	-7.73	14.19	3	Vertical	92	2.84	-	28.50	3.58	-

VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

17/02/2020



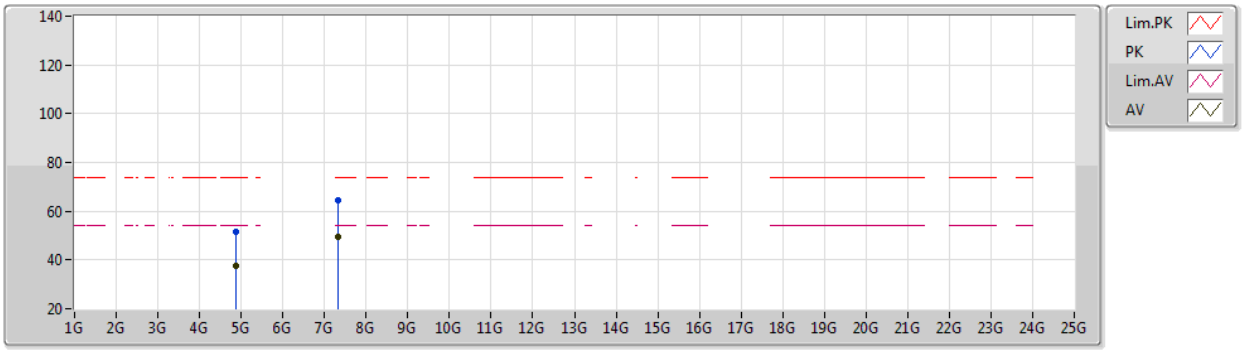
EUT X_2TX
Setting 25.5
02-D-S-5

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	71.23	74.00	-2.77	39.28	3	Horizontal	202	2.59	-	28.45	3.50	-
AV	2.3898G	53.71	54.00	-0.29	21.76	3	Horizontal	202	2.59	-	28.45	3.50	-
PK	2.4306G	126.79	Inf	-Inf	94.76	3	Horizontal	202	2.59	-	28.50	3.53	-
AV	2.431G	115.62	Inf	-Inf	83.59	3	Horizontal	202	2.59	-	28.50	3.53	-
PK	2.4854G	68.15	74.00	-5.85	36.06	3	Horizontal	202	2.59	-	28.50	3.59	-
AV	2.4862G	49.51	54.00	-4.49	17.42	3	Horizontal	202	2.59	-	28.50	3.59	-

VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

18/02/2020



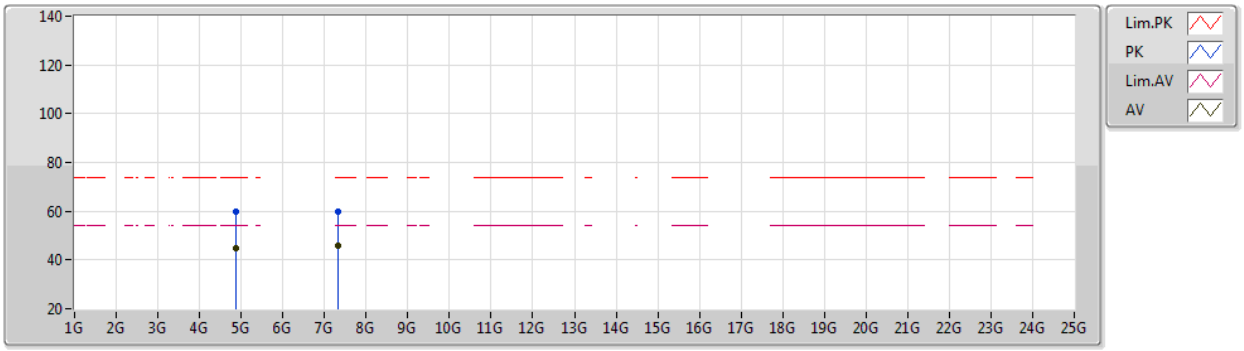
EUT X_2TX
Setting 25.5
02-D-S-5

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	4.87316G	51.59	74.00	-22.41	43.12	3	Vertical	343	2.08	-	32.99	5.84	30.36
AV	4.87304G	37.33	54.00	-16.67	28.86	3	Vertical	343	2.08	-	32.99	5.84	30.36
PK	7.31202G	64.42	74.00	-9.58	52.45	3	Vertical	43	1.47	-	36.42	6.96	31.41
AV	7.3116G	49.35	54.00	-4.65	37.38	3	Vertical	43	1.47	-	36.42	6.96	31.41

VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

18/02/2020



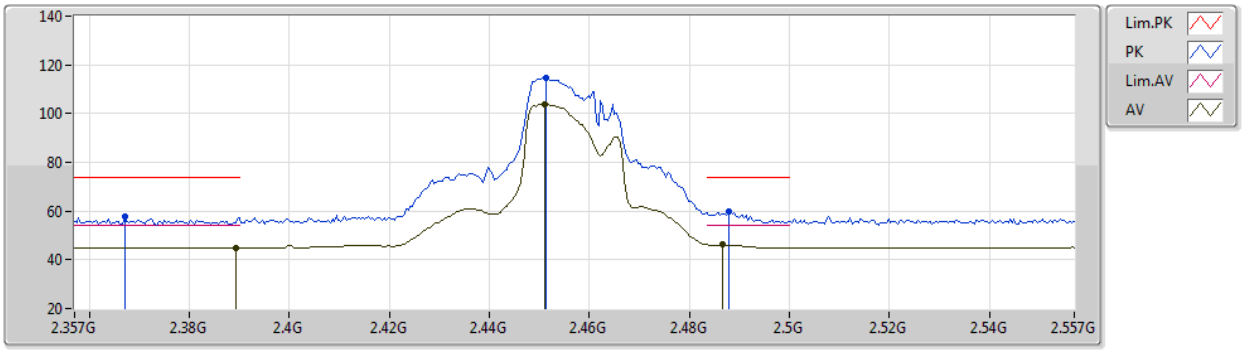
EUT X_2TX
Setting 25.5
02-D-S-5

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	4.87664G	59.86	74.00	-14.14	51.37	3	Horizontal	20	1.86	-	33.01	5.84	30.36
AV	4.87406G	44.94	54.00	-9.06	36.46	3	Horizontal	20	1.86	-	33.00	5.84	30.36
PK	7.31172G	60.07	74.00	-13.93	48.10	3	Horizontal	324	1.89	-	36.42	6.96	31.41
AV	7.31166G	45.70	54.00	-8.30	33.73	3	Horizontal	324	1.89	-	36.42	6.96	31.41

VHT20_Nss1,(MCS0)_2TX

2457MHz_TX

18/02/2020



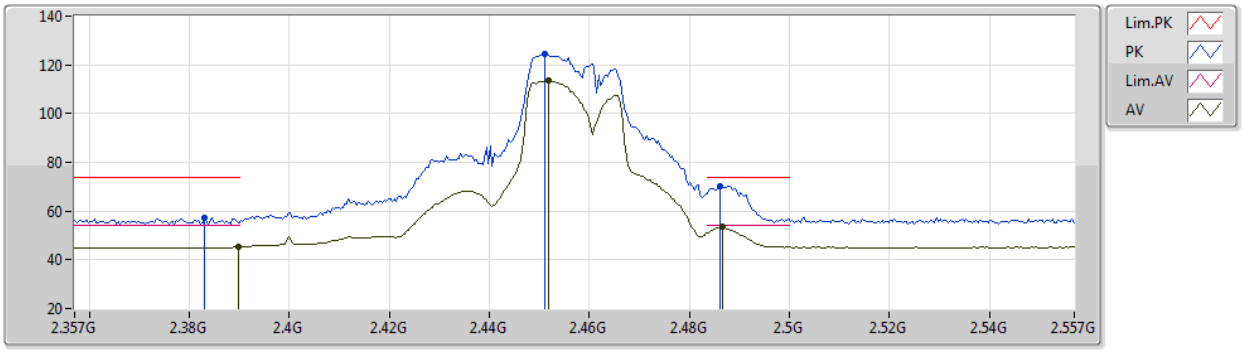
EUT X_2TX
Setting 21.5
02-D-S-5

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	2.367G	57.69	74.00	-16.31	25.85	3	Vertical	96	2.82	-	28.34	3.50	-
AV	2.3894G	44.83	54.00	-9.17	12.88	3	Vertical	96	2.82	-	28.45	3.50	-
PK	2.4514G	114.89	Inf	-Inf	82.84	3	Vertical	96	2.82	-	28.50	3.55	-
AV	2.451G	103.83	Inf	-Inf	71.78	3	Vertical	96	2.82	-	28.50	3.55	-
PK	2.4878G	60.07	74.00	-13.93	27.98	3	Vertical	96	2.82	-	28.50	3.59	-
AV	2.4866G	46.20	54.00	-7.80	14.11	3	Vertical	96	2.82	-	28.50	3.59	-

VHT20_Nss1,(MCS0)_2TX

2457MHz_TX

18/02/2020



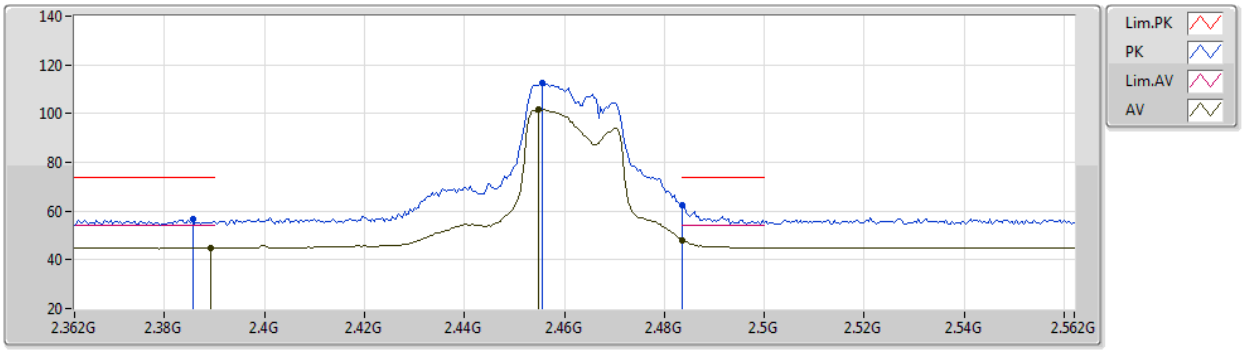
EUT X_2TX
Setting 21.5
02-D-S-5

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	2.383G	57.20	74.00	-16.80	25.29	3	Horizontal	198	2.55	-	28.41	3.50	-
AV	2.3898G	45.19	54.00	-8.81	13.24	3	Horizontal	198	2.55	-	28.45	3.50	-
PK	2.451G	124.57	Inf	-Inf	92.52	3	Horizontal	198	2.55	-	28.50	3.55	-
AV	2.4518G	113.42	Inf	-Inf	81.37	3	Horizontal	198	2.55	-	28.50	3.55	-
PK	2.4862G	70.38	74.00	-3.62	38.29	3	Horizontal	198	2.55	-	28.50	3.59	-
AV	2.4866G	53.53	54.00	-0.47	21.44	3	Horizontal	198	2.55	-	28.50	3.59	-

VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

17/02/2020



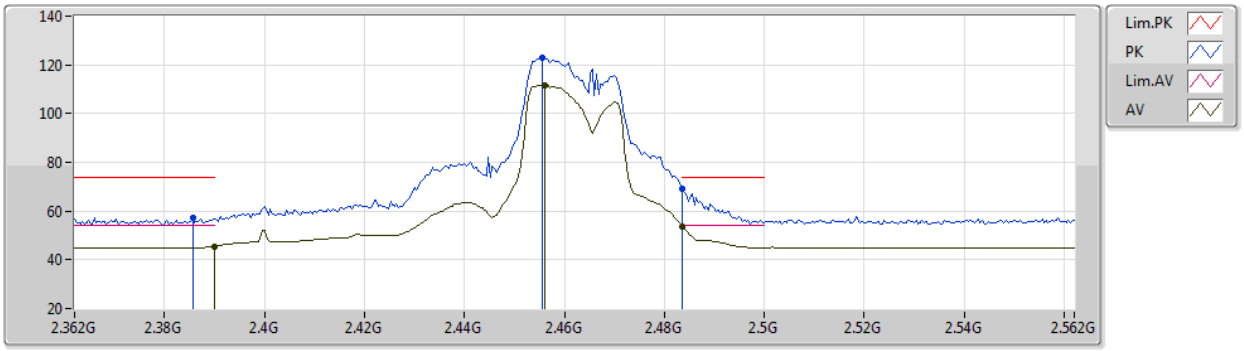
EUT X_2TX
Setting 20
02-D-S-5

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	2.3856G	56.97	74.00	-17.03	25.04	3	Vertical	95	2.77	-	28.43	3.50	-
AV	2.3892G	44.78	54.00	-9.22	12.83	3	Vertical	95	2.77	-	28.45	3.50	-
PK	2.4556G	112.63	Inf	-Inf	80.57	3	Vertical	95	2.77	-	28.50	3.56	-
AV	2.4548G	101.65	Inf	-Inf	69.60	3	Vertical	95	2.77	-	28.50	3.55	-
PK	2.4835G	62.21	74.00	-11.79	30.13	3	Vertical	95	2.77	-	28.50	3.58	-
AV	2.4835G	48.15	54.00	-5.85	16.07	3	Vertical	95	2.77	-	28.50	3.58	-

VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

17/02/2020



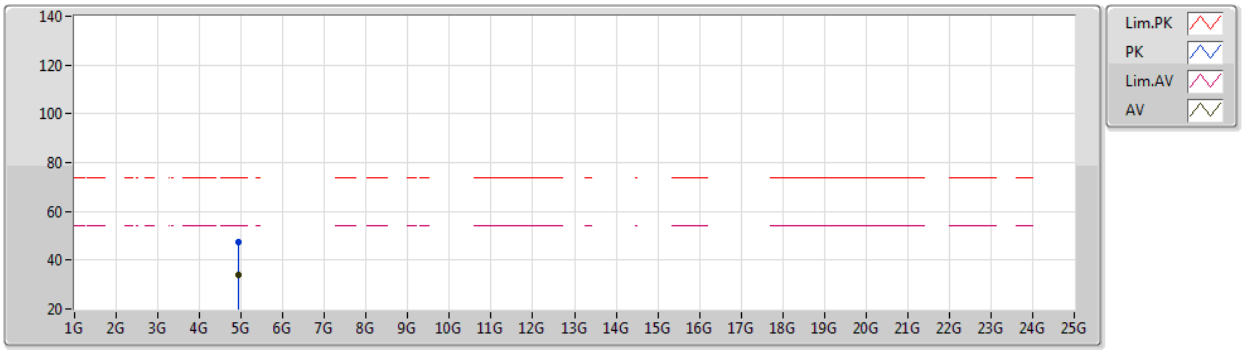
EUT X_2TX
Setting 20
02-D-S-5

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	2.3856G	57.41	74.00	-16.59	25.48	3	Horizontal	200	2.56	-	28.43	3.50	-
AV	2.39G	45.56	54.00	-8.44	13.61	3	Horizontal	200	2.56	-	28.45	3.50	-
PK	2.4556G	122.88	Inf	-Inf	90.82	3	Horizontal	200	2.56	-	28.50	3.56	-
AV	2.456G	111.67	Inf	-Inf	79.61	3	Horizontal	200	2.56	-	28.50	3.56	-
PK	2.4835G	69.30	74.00	-4.70	37.22	3	Horizontal	200	2.56	-	28.50	3.58	-
AV	2.4835G	53.77	54.00	-0.23	21.69	3	Horizontal	200	2.56	-	28.50	3.58	-

VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

18/02/2020



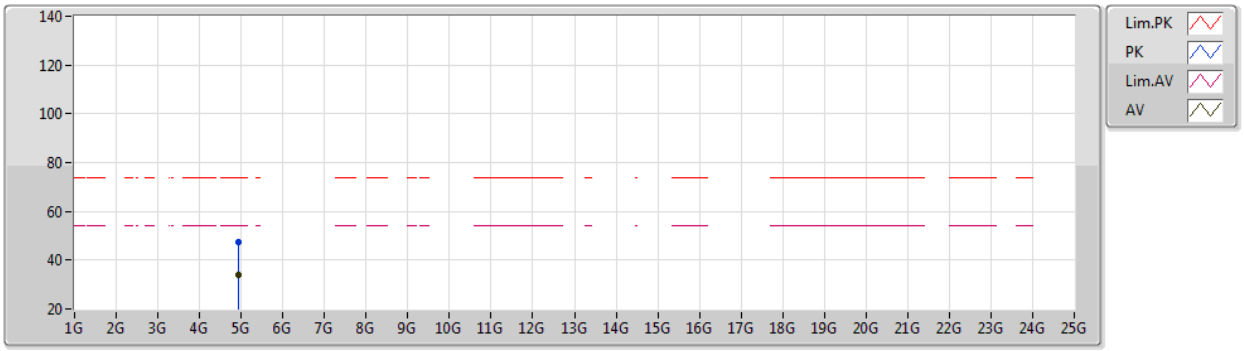
EUT X_2TX
Setting 20
02-D-S-5

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	4.93828G	47.57	74.00	-26.43	38.86	3	Vertical	164	2.21	-	33.18	5.87	30.34
AV	4.9375G	34.19	54.00	-19.81	25.49	3	Vertical	164	2.21	-	33.17	5.87	30.34

VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

18/02/2020



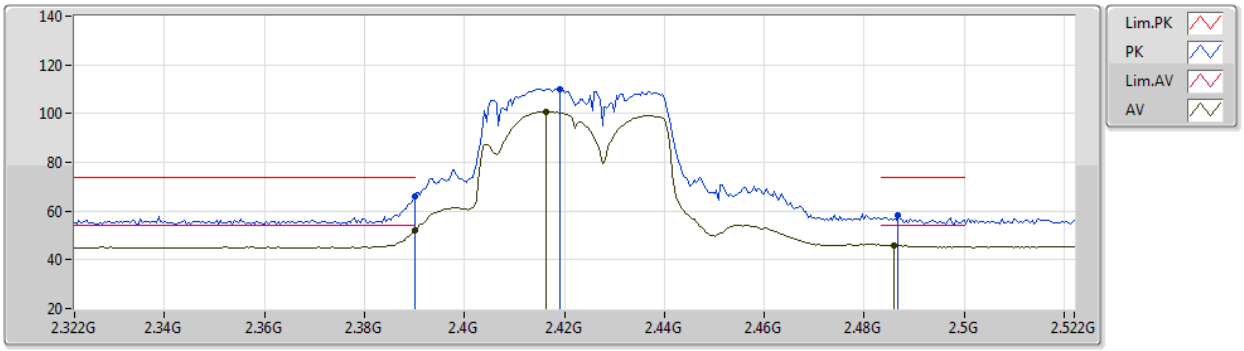
EUT X_2TX
Setting 20
02-D-S-5

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	4.92226G	47.20	74.00	-26.80	38.55	3	Horizontal	117	1.80	-	33.14	5.86	30.35
AV	4.93756G	34.22	54.00	-19.78	25.51	3	Horizontal	117	1.80	-	33.18	5.87	30.34

VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

17/02/2020



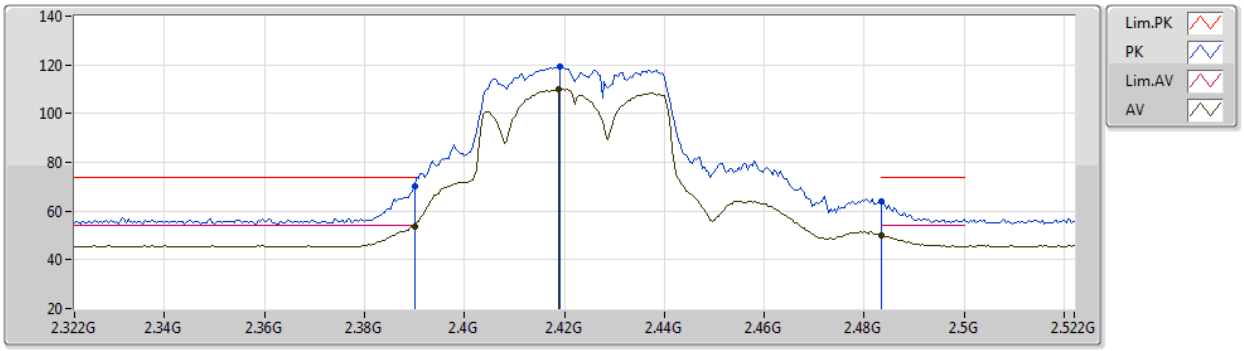
EUT X_2TX
Setting 19.5
02-D-S-5

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	65.83	74.00	-8.17	33.88	3	Vertical	90	2.86	-	28.45	3.50	-
AV	2.39G	51.93	54.00	-2.07	19.98	3	Vertical	90	2.86	-	28.45	3.50	-
PK	2.4192G	110.09	Inf	-Inf	78.07	3	Vertical	90	2.86	-	28.50	3.52	-
AV	2.4164G	100.76	Inf	-Inf	68.74	3	Vertical	90	2.86	-	28.50	3.52	-
PK	2.4868G	58.16	74.00	-15.84	26.07	3	Vertical	90	2.86	-	28.50	3.59	-
AV	2.486G	46.06	54.00	-7.94	13.97	3	Vertical	90	2.86	-	28.50	3.59	-

VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

17/02/2020



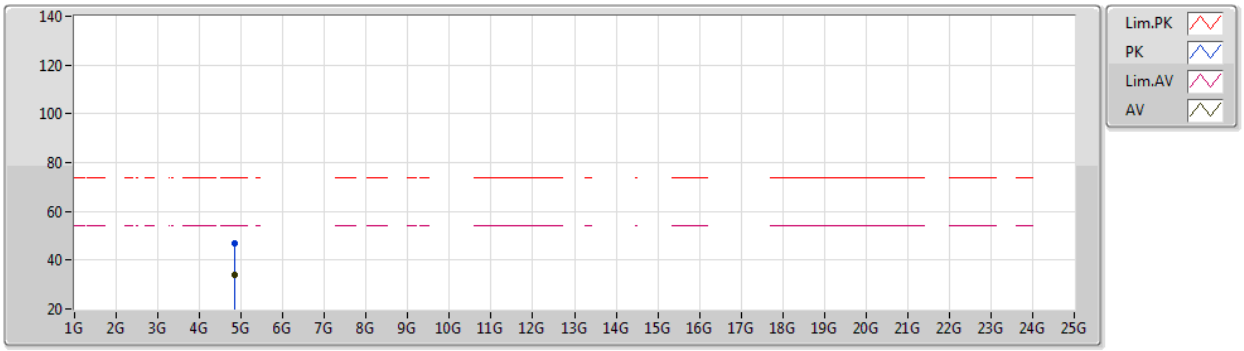
EUT X_2TX
Setting 19.5
02-D-S-5

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	70.31	74.00	-3.69	38.36	3	Horizontal	196	2.87	-	28.45	3.50	-
AV	2.39G	53.73	54.00	-0.27	21.78	3	Horizontal	196	2.87	-	28.45	3.50	-
PK	2.4192G	119.42	Inf	-Inf	87.40	3	Horizontal	196	2.87	-	28.50	3.52	-
AV	2.4188G	109.96	Inf	-Inf	77.94	3	Horizontal	196	2.87	-	28.50	3.52	-
PK	2.4835G	63.95	74.00	-10.05	31.87	3	Horizontal	196	2.87	-	28.50	3.58	-
AV	2.4835G	50.09	54.00	-3.91	18.01	3	Horizontal	196	2.87	-	28.50	3.58	-

VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

18/02/2020



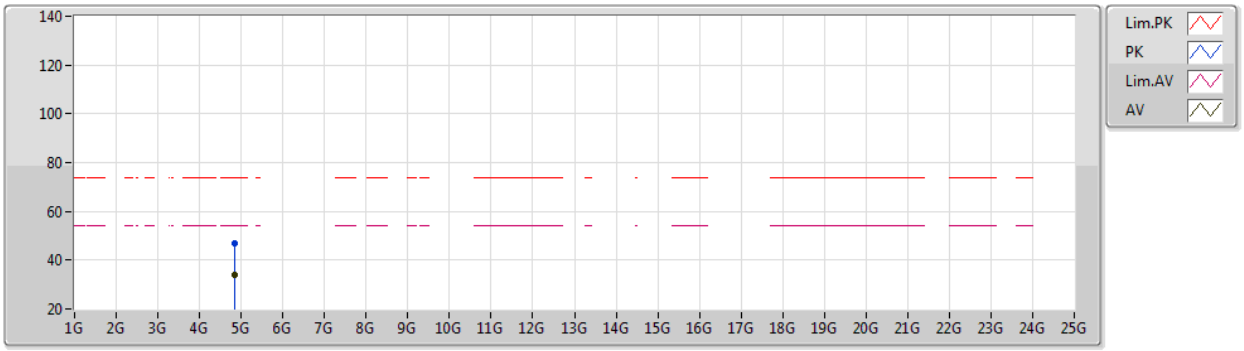
EUT X_2TX
Setting 19.5
02-D-S-5

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	4.83644G	46.97	74.00	-27.03	38.67	3	Vertical	336	1.53	-	32.85	5.82	30.37
AV	4.8542G	34.03	54.00	-19.97	25.64	3	Vertical	336	1.53	-	32.92	5.83	30.36

VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

18/02/2020



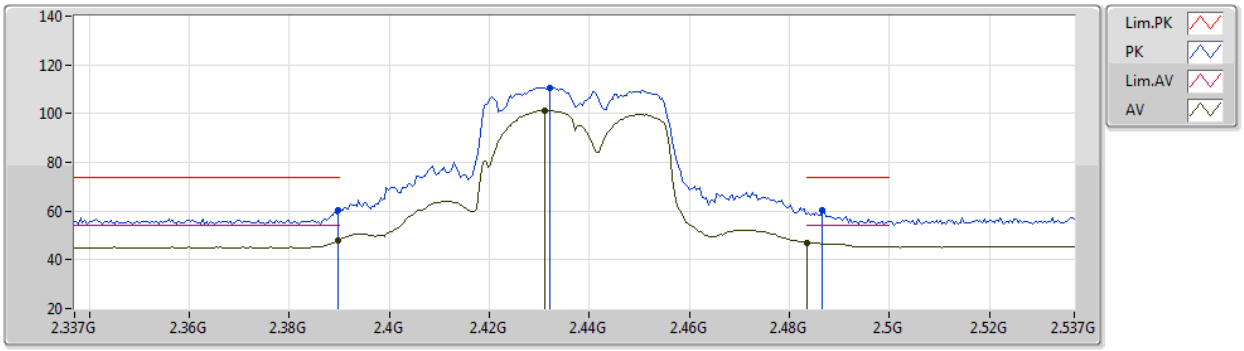
EUT X_2TX
Setting 19.5
02-D-S-5

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	4.83314G	47.07	74.00	-26.93	38.79	3	Horizontal	278	1.29	-	32.83	5.82	30.37
AV	4.8425G	34.22	54.00	-19.78	25.90	3	Horizontal	278	1.29	-	32.87	5.82	30.37

VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

17/02/2020



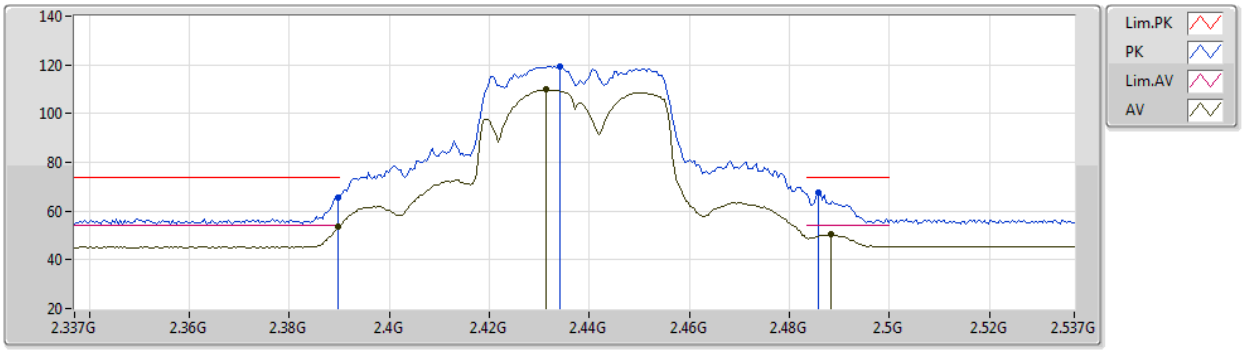
EUT X_2TX
Setting 20
02-D-S-5

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	60.09	74.00	-13.91	28.14	3	Vertical	91	2.84	-	28.45	3.50	-
AV	2.3898G	47.75	54.00	-6.25	15.80	3	Vertical	91	2.84	-	28.45	3.50	-
PK	2.4322G	110.73	Inf	-Inf	78.70	3	Vertical	91	2.84	-	28.50	3.53	-
AV	2.431G	101.44	Inf	-Inf	69.41	3	Vertical	91	2.84	-	28.50	3.53	-
PK	2.4866G	60.42	74.00	-13.58	28.33	3	Vertical	91	2.84	-	28.50	3.59	-
AV	2.4835G	46.93	54.00	-7.07	14.85	3	Vertical	91	2.84	-	28.50	3.58	-

VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

17/02/2020



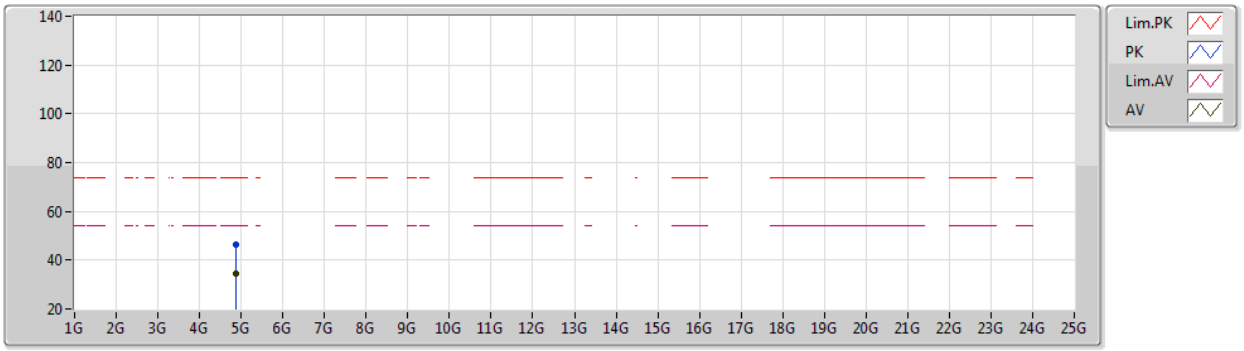
EUT X_2TX
Setting 20
02-D-S-5

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	65.33	74.00	-8.67	33.38	3	Horizontal	197	2.84	-	28.45	3.50	-
AV	2.3898G	53.67	54.00	-0.33	21.72	3	Horizontal	197	2.84	-	28.45	3.50	-
PK	2.4342G	119.24	Inf	-Inf	87.21	3	Horizontal	197	2.84	-	28.50	3.53	-
AV	2.4314G	109.94	Inf	-Inf	77.91	3	Horizontal	197	2.84	-	28.50	3.53	-
PK	2.4858G	67.49	74.00	-6.51	35.40	3	Horizontal	197	2.84	-	28.50	3.59	-
AV	2.4882G	50.30	54.00	-3.70	18.21	3	Horizontal	197	2.84	-	28.50	3.59	-

VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

18/02/2020



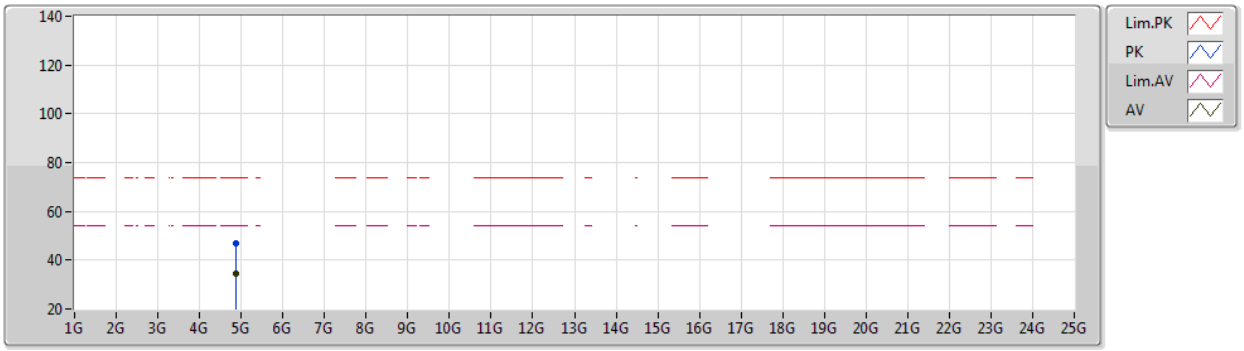
EUT X_2TX
Setting 20
02-D-S-5

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	4.86266G	46.48	74.00	-27.52	38.06	3	Vertical	170	1.43	-	32.95	5.83	30.36
AV	4.87448G	34.51	54.00	-19.49	26.03	3	Vertical	170	1.43	-	33.00	5.84	30.36

VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

18/02/2020



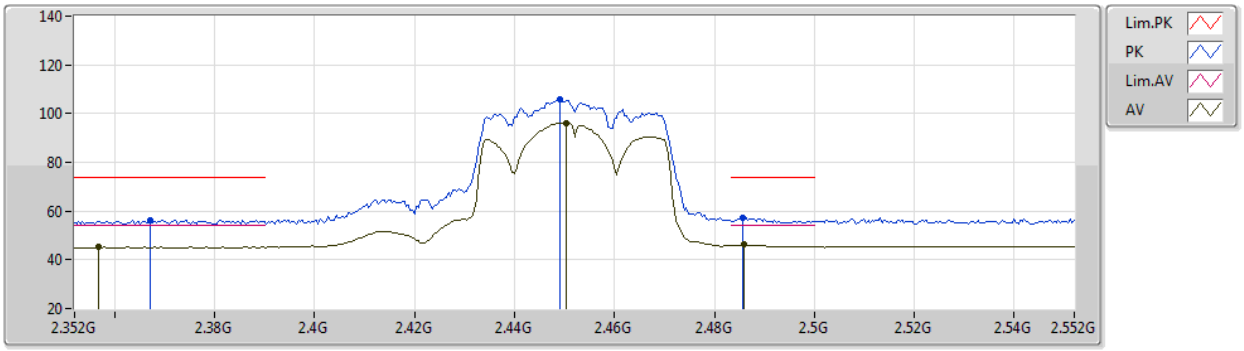
EUT X_2TX
Setting 20
02-D-S-5

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	4.86848G	46.99	74.00	-27.01	38.55	3	Horizontal	133	2.97	-	32.97	5.83	30.36
AV	4.88342G	34.33	54.00	-19.67	25.81	3	Horizontal	133	2.97	-	33.03	5.84	30.35

VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

17/02/2020



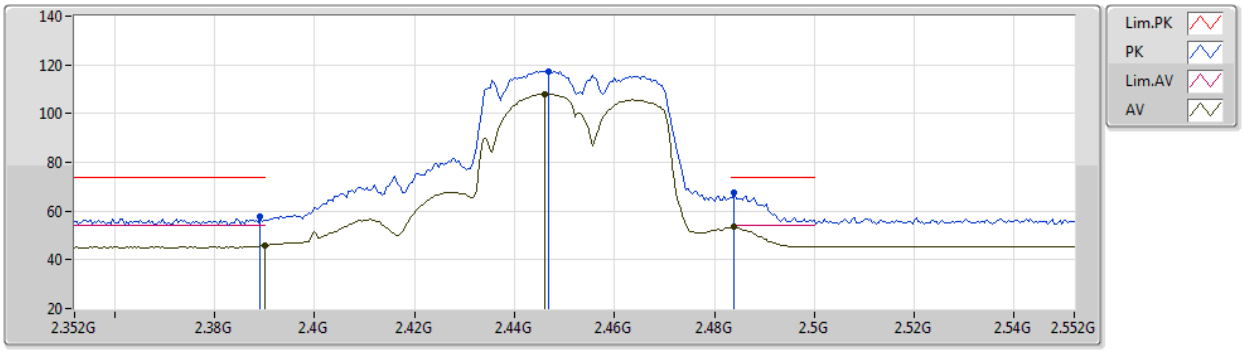
EUT X_2TX
Setting 18
02-D-S-5

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	2.3672G	56.42	74.00	-17.58	24.58	3	Vertical	209	2.35	-	28.34	3.50	-
AV	2.3568G	45.26	54.00	-8.74	13.48	3	Vertical	209	2.35	-	28.28	3.50	-
PK	2.4492G	105.66	Inf	-Inf	73.61	3	Vertical	209	2.35	-	28.50	3.55	-
AV	2.4504G	96.28	Inf	-Inf	64.23	3	Vertical	209	2.35	-	28.50	3.55	-
PK	2.4856G	57.46	74.00	-16.54	25.37	3	Vertical	209	2.35	-	28.50	3.59	-
AV	2.486G	46.18	54.00	-7.82	14.09	3	Vertical	209	2.35	-	28.50	3.59	-

VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

17/02/2020



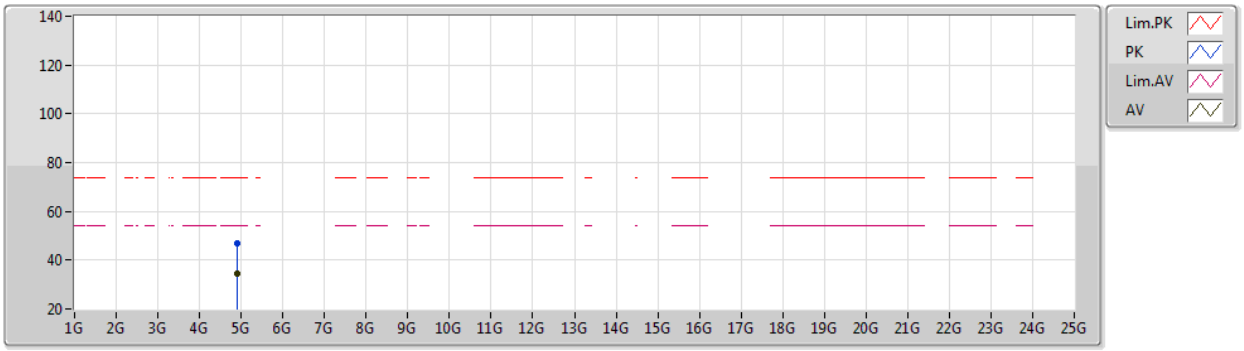
EUT X_2TX
Setting 18
02-D-S-5

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	2.3892G	57.52	74.00	-16.48	25.57	3	Horizontal	198	2.55	-	28.45	3.50	-
AV	2.39G	45.95	54.00	-8.05	14.00	3	Horizontal	198	2.55	-	28.45	3.50	-
PK	2.4468G	117.36	Inf	-Inf	85.31	3	Horizontal	198	2.55	-	28.50	3.55	-
AV	2.446G	108.04	Inf	-Inf	75.99	3	Horizontal	198	2.55	-	28.50	3.55	-
PK	2.484G	67.79	74.00	-6.21	35.71	3	Horizontal	198	2.55	-	28.50	3.58	-
AV	2.484G	53.54	54.00	-0.46	21.46	3	Horizontal	198	2.55	-	28.50	3.58	-

VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

18/02/2020



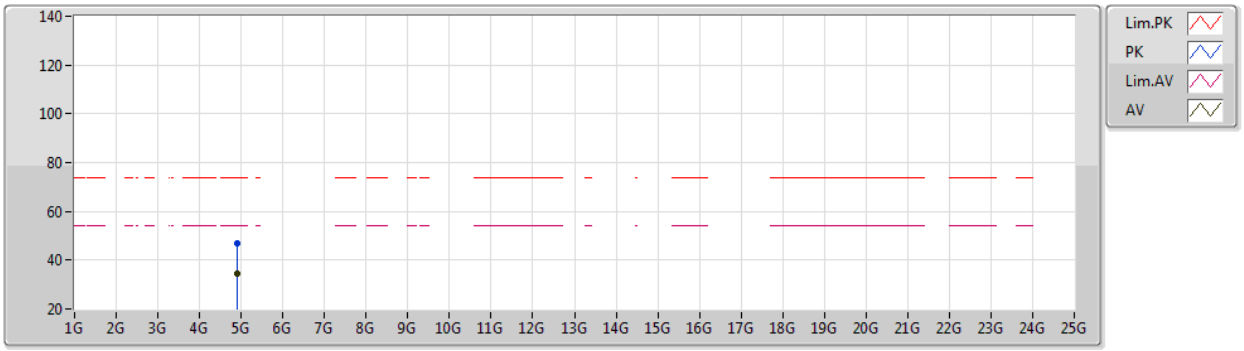
EUT X_2TX
Setting 18
02-D-S-5

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	4.89416G	46.85	74.00	-27.15	38.27	3	Vertical	4	2.07	-	33.08	5.85	30.35
AV	4.8932G	34.46	54.00	-19.54	25.89	3	Vertical	4	2.07	-	33.07	5.85	30.35

VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

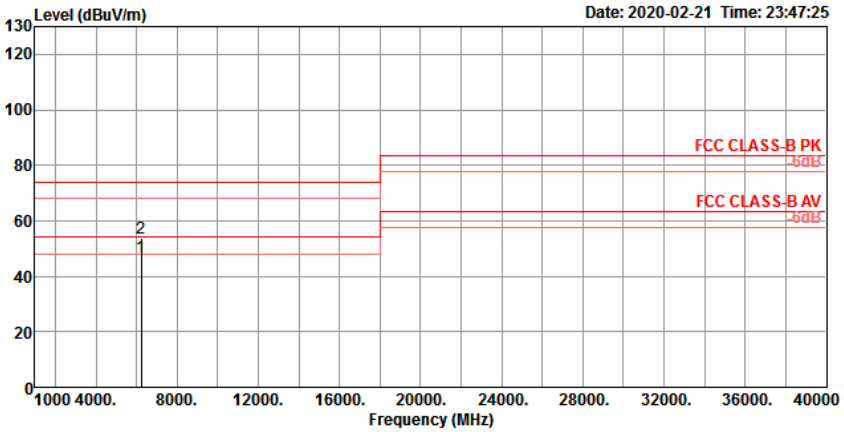
18/02/2020



EUT X_2TX
Setting 18
02-D-S-5

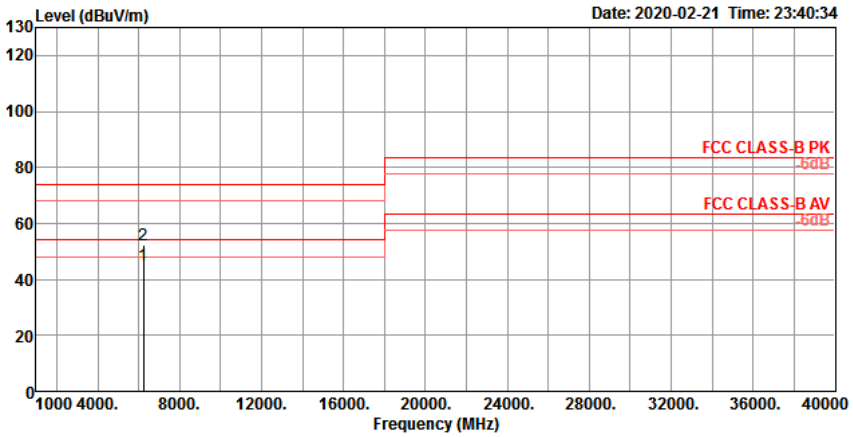
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.89974G	47.05	74.00	-26.95	38.45	3	Horizontal	81	2.80	-	33.10	5.85	30.35
AV	4.89464G	34.40	54.00	-19.60	25.82	3	Horizontal	81	2.80	-	33.08	5.85	30.35

RSE Co-location Result			
Operating Mode	1	**Polarization**	Horizontal
Operating Function	Normal Link		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	6249.96	46.78	54.00	-7.22	38.64	5.39	36.35	33.60	160	49	Average	HORIZONTAL
2	6249.99	53.52	74.00	-20.48	45.38	5.39	36.35	33.60	160	49	Peak	HORIZONTAL

RSE Co-location Result			
Operating Mode	1	**Polarization**	Vertical
Operating Function	Normal Link		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	6249.99	45.19	54.00	-8.81	37.05	5.39	36.35	33.60	146	354	Average	VERTICAL
2	6250.09	52.50	74.00	-21.50	44.36	5.39	36.35	33.60	146	354	Peak	VERTICAL