



FCC Test Report

FCC ID : 2AEUPBHALP012
Equipment : Video Doorbell Pro
Brand Name : RING LLC
Model Name : Video Doorbell Pro
Applicant : Ring LLC
1523 26th St, Santa Monica, CA 90404, USA
Manufacturer : Chicony Electronics Co., Ltd
36F., No.69, Sec. 2, Guangfu Rd., Sanchong
Dist., New Taipei City 241, Taiwan (R.O.C.)
Standard : 47 CFR FCC Part 15.247

The product was received on May 06, 2020, and testing was started from May 07, 2020 and completed on Jul. 03, 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 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: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR042505AC	01	Initial issue of report	Nov. 25, 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:

None

Reviewed by: Sam Tsai

Report Producer: Debby Hung

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector
1	1	-	Ring Wifi Antenna	PIFA Antenna	Fixed on board

2.4G		5G		BT	
Frequency (MHz)	Gain (dBi)	Frequency (MHz)	Gain (dBi)	Frequency (MHz)	Gain (dBi)
2412	1.37	5180	1.4	2402	1.37
2417	1.37	5190	1.4	2440 / 2441	1.08
2422	1.37	5200	1.4	2480	1.09
2427	1.08	5230	2.5	-	-
2432	1.08	5240	2.5	-	-
2437	1.08	5250	2.93	-	-
2442	1.08	5260	2.93	-	-
2447	1.08	5270	2.93	-	-
2452	1.08	5280	2.93	-	-
2457	1.08	5310	2.45	-	-
2462	1.08	5320	2.45	-	-
-	-	5350	2.45	-	-
-	-	5470	2.75	-	-
-	-	5500	2.75	-	-
-	-	5510	2.75	-	-
-	-	5600	2.79	-	-
-	-	5670	2.52	-	-
-	-	5700	2.52	-	-
-	-	5725	2.52	-	-
-	-	5745	3.12	-	-
-	-	5755	3.12	-	-
-	-	5785	2.65	-	-
-	-	5795	2.65	-	-
-	-	5825	1.67	-	-

For 2.4 GHz function:

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

Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.

For 5 GHz function:

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

Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.

For Bluetooth function:

For Bluetooth mode (1TX/1RX)

Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From Battery / Transformer			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point
Beamforming Function	☐	With beamforming	☒	Without beamforming
Type of EUT				
☒	Stand-alone			
☐	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model No.:		...	
☐	Plug-in radio (EUT intended for a variety of host systems)			
	Host System - Brand Name / Model No.:		...	
☐	Other:			

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b_Nss1,(1Mbps)_1TX	0.99	0.04	8.613m	10
802.11g_Nss1,(6Mbps)_1TX	0.955	0.2	2.067m	1k
802.11n HT20_Nss1,(MCS0)_1TX	0.98	0.09	1.339m	10

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.2 Testing Applied Standards

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

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013

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

- ◆ KDB 558074 D01 v05r02
- ◆ 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
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			
☒	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
		TEL : 886-3-318-0787	FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward	21.3~24.4°C / 68~71%	22/May/2020
RF Conducted	TH06-HY	Raven	22.8~24.3°C / 53~68%	07/May/2020~03/Jul/2020
Radiated <Below 1G>	03CH09-HY	Lego	21.4~21.8°C / 59~66%	20/May/2020
Radiated <Above 1G>	03CH02-HY	Lego	21.6~22.1°C / 58~63%	16/May/2020~01/Jun/2020

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)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode

Test Software Version	Microsoft Windows v6.1
-----------------------	------------------------

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	67
2417MHz	68
2437MHz	88
2457MHz	63
2462MHz	62
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	52
2417MHz	69
2437MHz	70
2457MHz	64
2462MHz	54
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	60
2417MHz	64
2437MHz	69
2457MHz	61
2462MHz	56

2.3 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	CTX
1	Transformer mode

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

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Transformer mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

2.4 Accessories

Accessories				
Battery	Brand Name	Fellotech	Model Name	FT602025P
	Power Rating	3.7 Vdc, 240mAh	Type	Li-Po

Reminder: Regarding to more detail and other information, please refer to user manual.

2.5 Support Equipment

Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Transformer	TRIAD	VPL16-1600	-	-

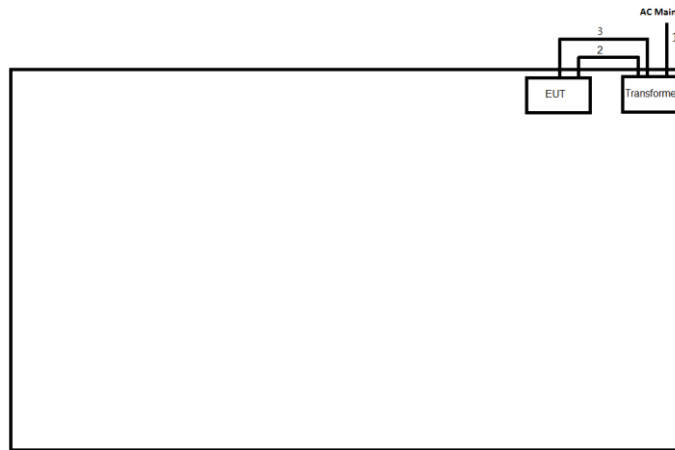
Note.Support equipment No.1 was provided by customer.

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Transformer	TRIAD	VPL16-1600	-	-

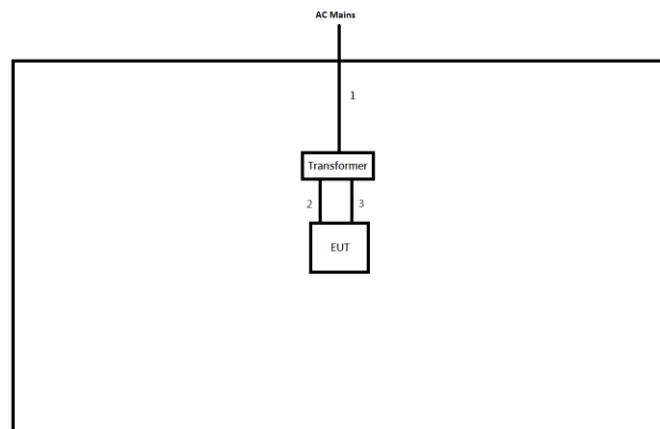
Note.Support equipment No.3 was provided by customer.

2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.5	-
2	DC Power cable(+)	No	0.15	-
3	DC Power cable(-)	No	0.15	-

Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable(+)	No	0.15	-
3	DC Power cable(-)	No	0.15	-

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

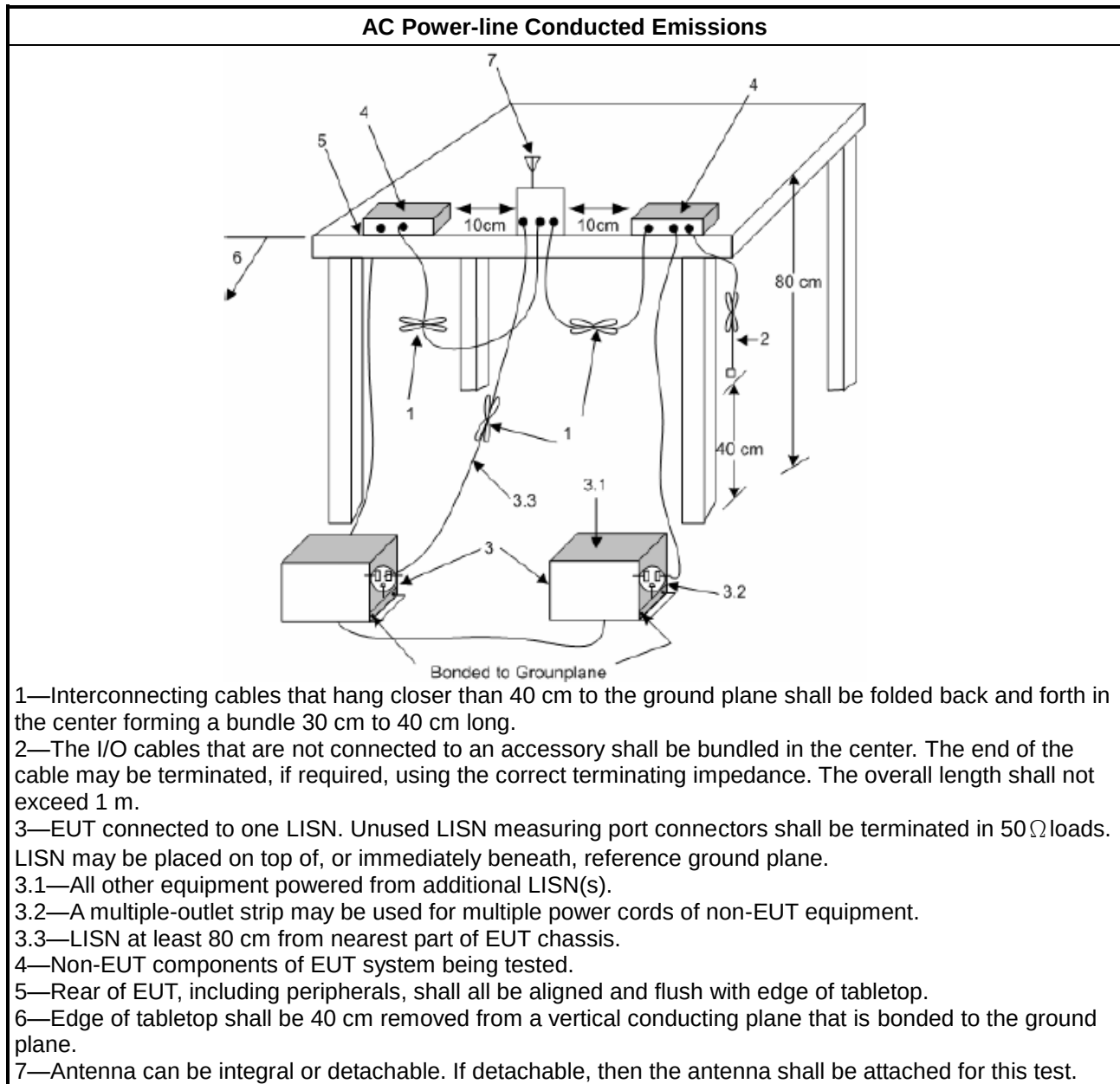
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

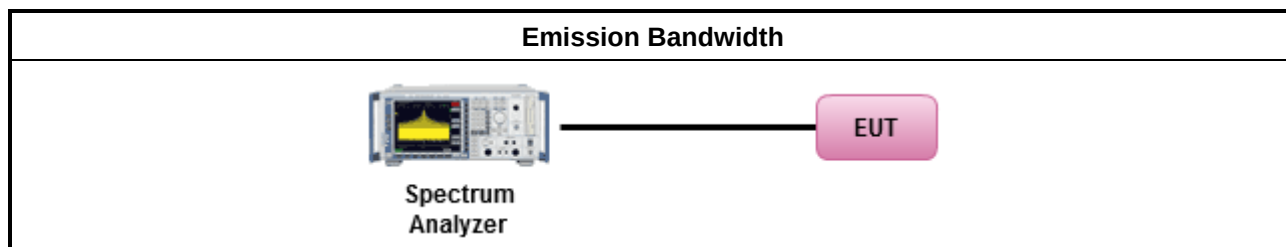
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit		
	▪	If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	▪	Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	▪	Smart antenna system (SAS):
	-	Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	-	Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	-	Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:		
	▪	2400-2483.5 MHz Band
	▪	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	▪	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	▪	Smart antenna system (SAS)
	-	Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	-	Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	-	Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ 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.		

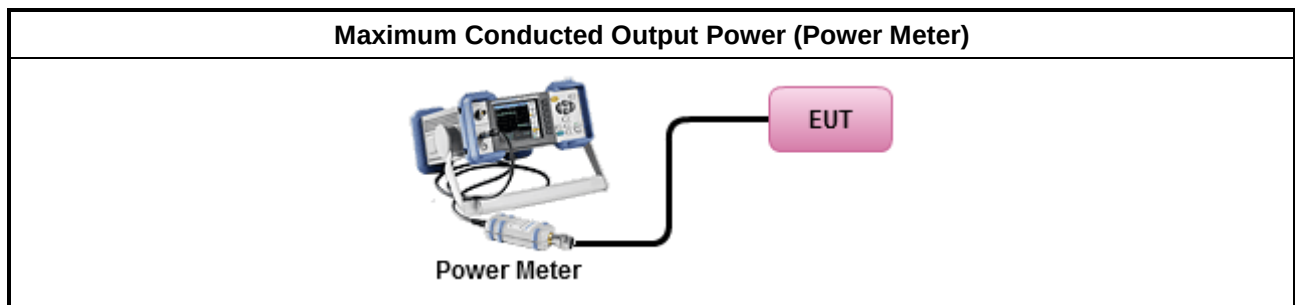
3.3.2 Measuring Instruments

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 KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

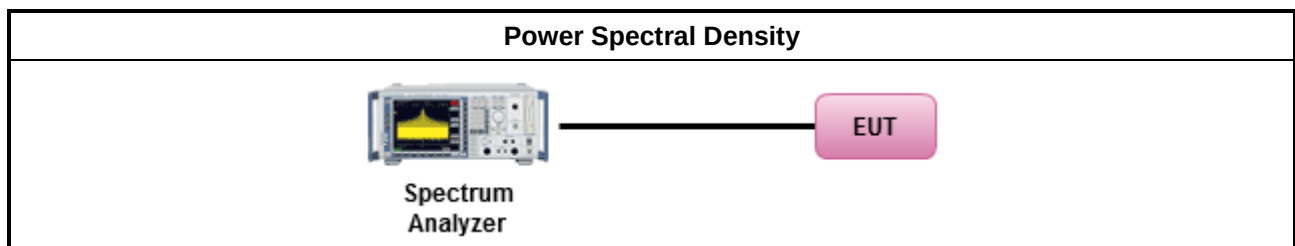
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
▪	Measure and sum the spectra across the outputs. Refer as 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.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
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 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 level.	

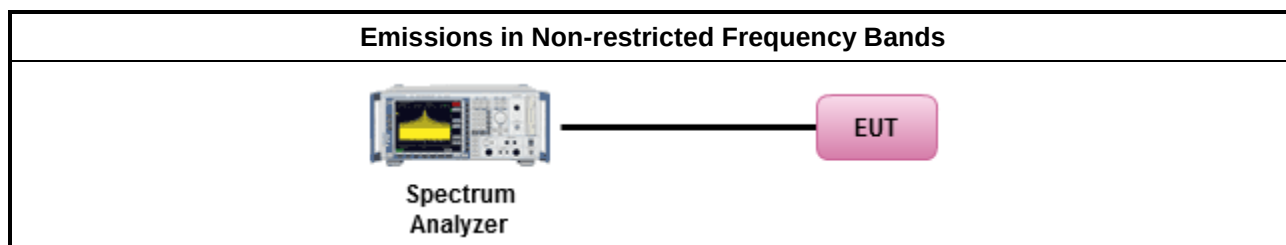
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

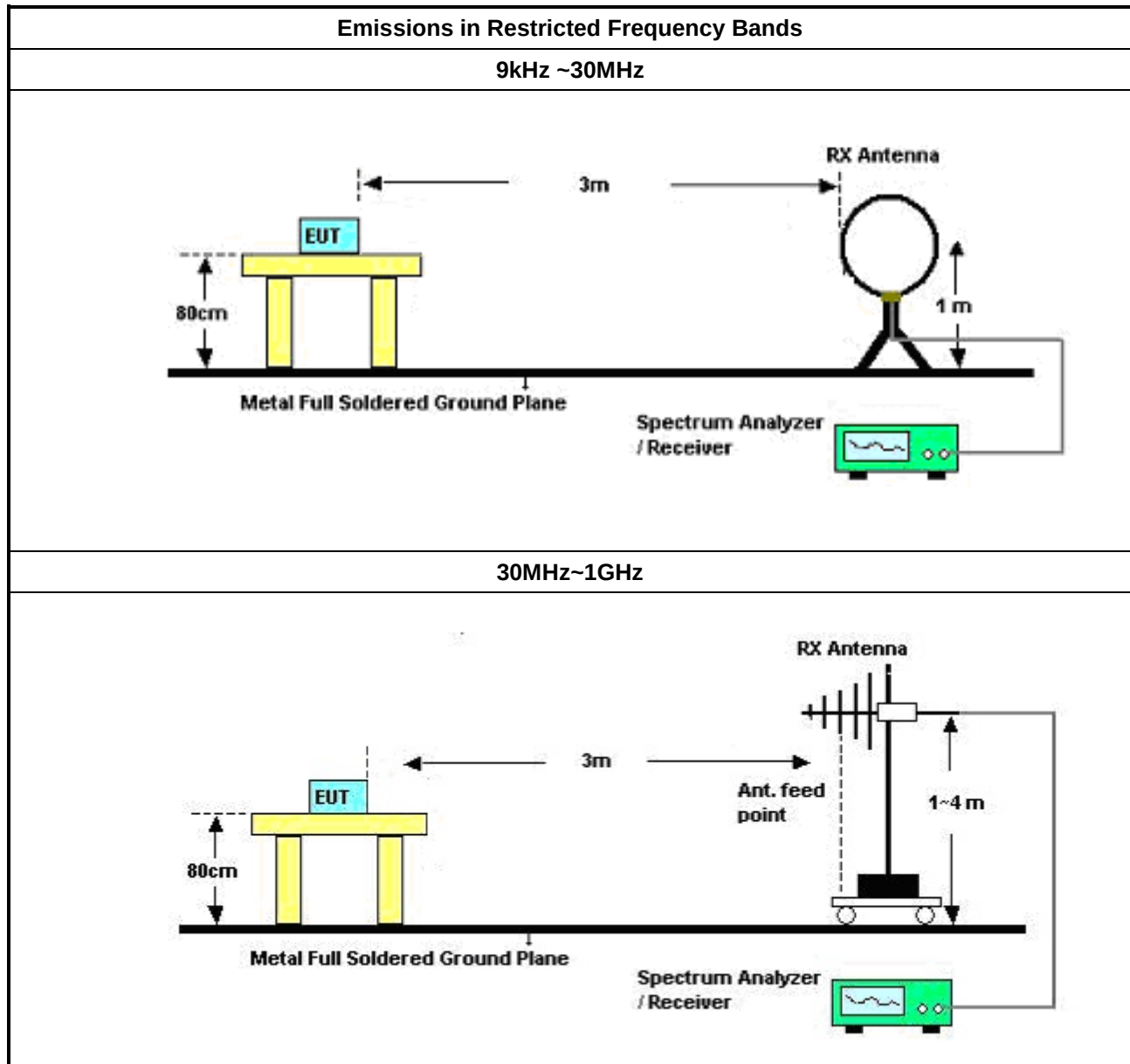
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, 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 KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

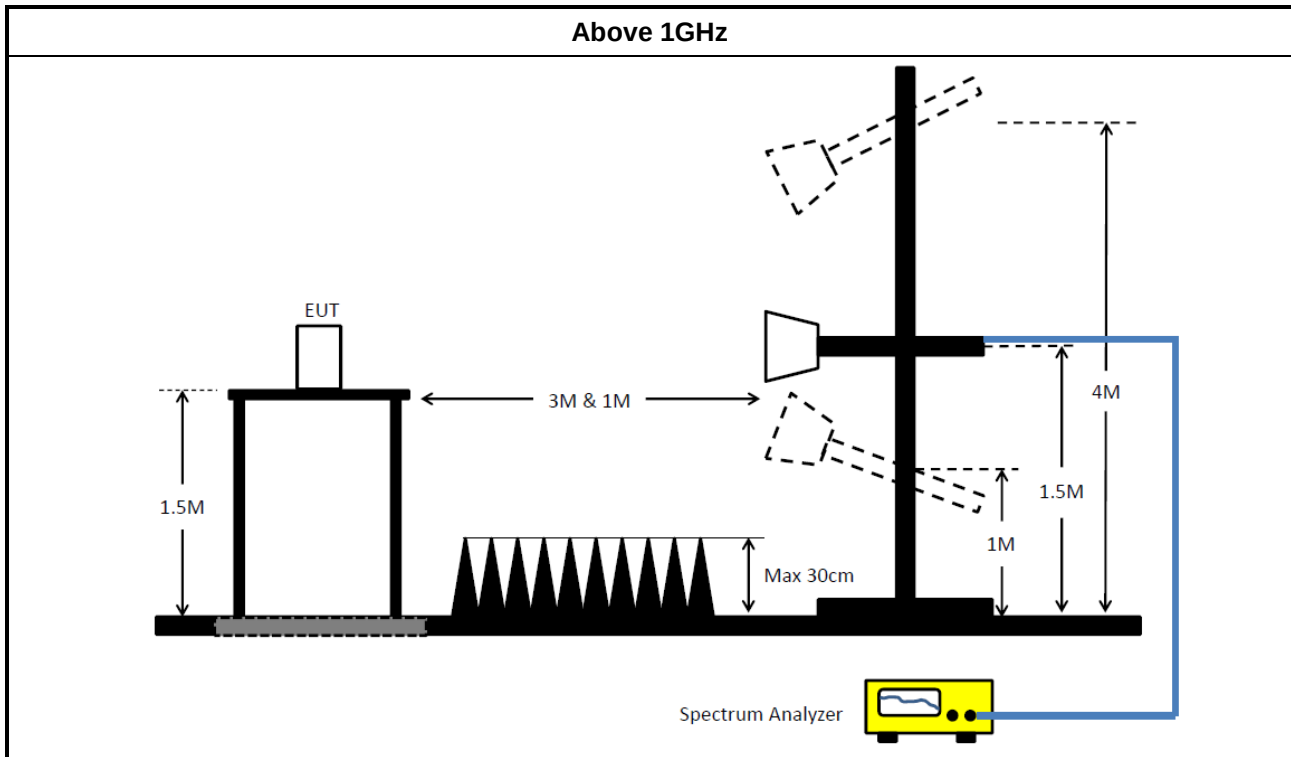
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.6.5 Test Setup





3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	28/May/2019	27/May/2020
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	05/Nov/2019	04/Nov/2020
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	23/Sep/2019	22/Sep/2020
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBEC K	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	24/Sep/2019	23/Sep/2020

NCR: Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10KHz ~ 40GHz	01/Oct/2019	30/Sep/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	11/Nov/2020
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	18/Mar/2020	17/Mar/2021
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	18/Mar/2020	17/Mar/2021

Instrument for Radiated Test (03CH02-HY)

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	29/Aug/2019	28/Aug/2020
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	16/Oct/2019	15/Oct/2020
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	27/Feb/2020	26/Feb/2021
RF Cable-high	SUHNER	SUCOFLEX104	805193/4+ 805192/4	1GHz~40GHz	08/Apr/2020	07/Apr/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	03/Jun/2019	02/Jun/2020
Preamplifier	MITEQ	TTA1840-35-H G	1864481	18GHz ~ 40GHz	10/Mar/2020	09/Mar/2021

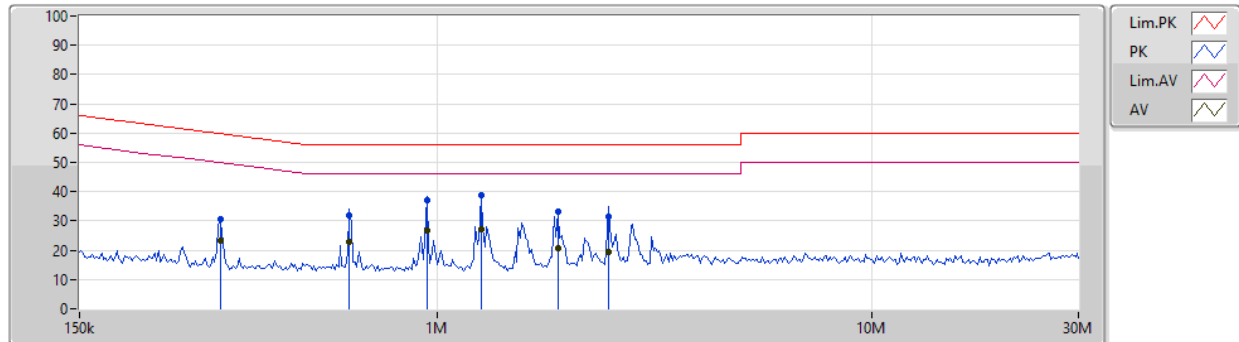
Instrument for Radiated Test (03CH09-HY)

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz	27/Mar/2020	26/Mar/2021
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	14/Apr/2020	13/Apr/2021
EMC Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	28/May/2019	27/May/2020
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	07/Aug/2019	06/Aug/2020
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	30/Sep/2019	29/Sep/2020
Loop Antenna	TESEQ	HLA 6120	31244	9kHz-30MHz	16/Mar/2020	15/Mar/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/ 4	9kHz~1GHz	12/Feb/2020	11/Feb/2021

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Transformer mode		

22/05/2020

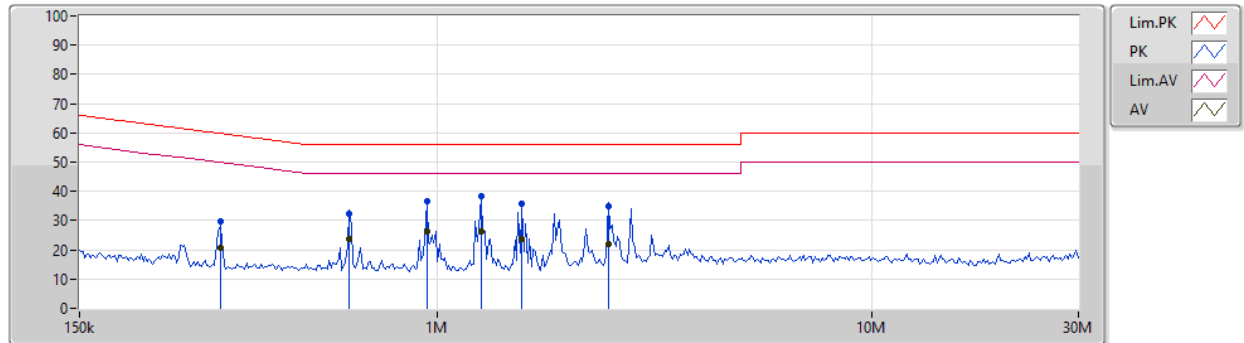


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	316.369k	30.50	59.80	-29.30	19.62	Neutral	-	10.88	9.63	0.12	9.87			
AV	316.369k	23.22	49.80	-26.58	19.62	Neutral	-	3.60	9.63	0.12	9.87			
QP	628.592k	31.94	56.00	-24.06	19.62	Neutral	-	12.32	9.63	0.12	9.87			
AV	628.592k	22.75	46.00	-23.25	19.62	Neutral	-	3.13	9.63	0.12	9.87			
QP	945.247k	37.13	56.00	-18.87	19.62	Neutral	-	17.51	9.63	0.11	9.88			
AV	945.247k	26.51	46.00	-19.49	19.62	Neutral	-	6.89	9.63	0.11	9.88			
QP	1.261M	38.90	56.00	-17.10	19.64	Neutral	"Worst"	19.26	9.64	0.12	9.88			
AV	1.261M	26.95	46.00	-19.05	19.64	Neutral	-	7.31	9.64	0.12	9.88			
QP	1.897M	33.37	56.00	-22.63	19.67	Neutral	-	13.70	9.65	0.15	9.87			
AV	1.897M	20.71	46.00	-25.29	19.67	Neutral	-	1.04	9.65	0.15	9.87			
QP	2.482M	31.27	56.00	-24.73	19.68	Neutral	-	11.59	9.65	0.16	9.87			
AV	2.482M	19.32	46.00	-26.68	19.68	Neutral	-	-0.36	9.65	0.16	9.87			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Transformer mode		

22/05/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	316.369k	29.81	59.80	-29.99	19.63	Line	-	10.18	9.64	0.12	9.87			
AV	316.369k	20.89	49.80	-28.91	19.63	Line	-	1.26	9.64	0.12	9.87			
QP	628.592k	32.44	56.00	-23.56	19.63	Line	-	12.81	9.64	0.12	9.87			
AV	628.592k	23.57	46.00	-22.43	19.63	Line	-	3.94	9.64	0.12	9.87			
QP	945.247k	36.83	56.00	-19.17	19.63	Line	-	17.20	9.64	0.11	9.88			
AV	945.247k	26.17	46.00	-19.83	19.63	Line	-	6.54	9.64	0.11	9.88			
QP	1.261M	38.51	56.00	-17.49	19.64	Line	"Worst"	18.87	9.64	0.12	9.88			
AV	1.261M	26.28	46.00	-19.72	19.64	Line	-	6.64	9.64	0.12	9.88			
QP	1.57M	35.94	56.00	-20.06	19.66	Line	-	16.28	9.65	0.14	9.87			
AV	1.57M	23.53	46.00	-22.47	19.66	Line	-	3.87	9.65	0.14	9.87			
QP	2.482M	34.83	56.00	-21.17	19.68	Line	-	15.15	9.65	0.16	9.87			
AV	2.482M	22.14	46.00	-23.86	19.68	Line	-	2.46	9.65	0.16	9.87			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	9.025M	14.413M	14M4G1D	8.05M	12.054M
802.11g_Nss1,(6Mbps)_1TX	15.05M	16.452M	16M5D1D	14.425M	16.352M
802.11n HT20_Nss1,(MCS0)_1TX	15.05M	17.571M	17M6D1D	15.025M	17.531M

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

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

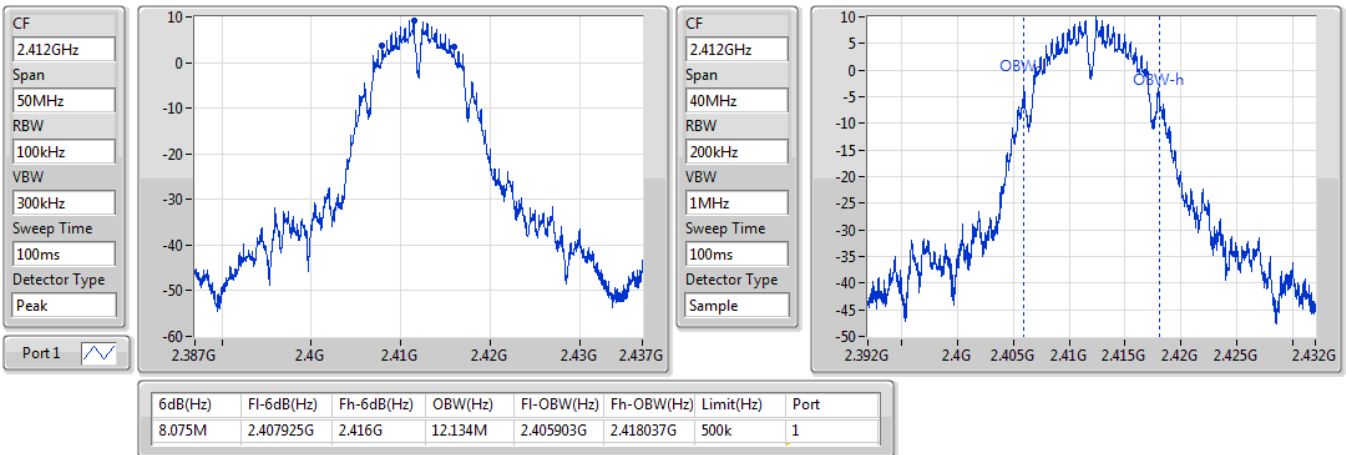
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	8.075M	12.134M
2437MHz_TnomVnom	Pass	500k	9.025M	14.413M
2462MHz_TnomVnom	Pass	500k	8.05M	12.054M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	15.05M	16.352M
2437MHz_TnomVnom	Pass	500k	14.425M	16.452M
2462MHz_TnomVnom	Pass	500k	14.65M	16.372M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	15.05M	17.531M
2437MHz_TnomVnom	Pass	500k	15.025M	17.571M
2462MHz_TnomVnom	Pass	500k	15.05M	17.531M

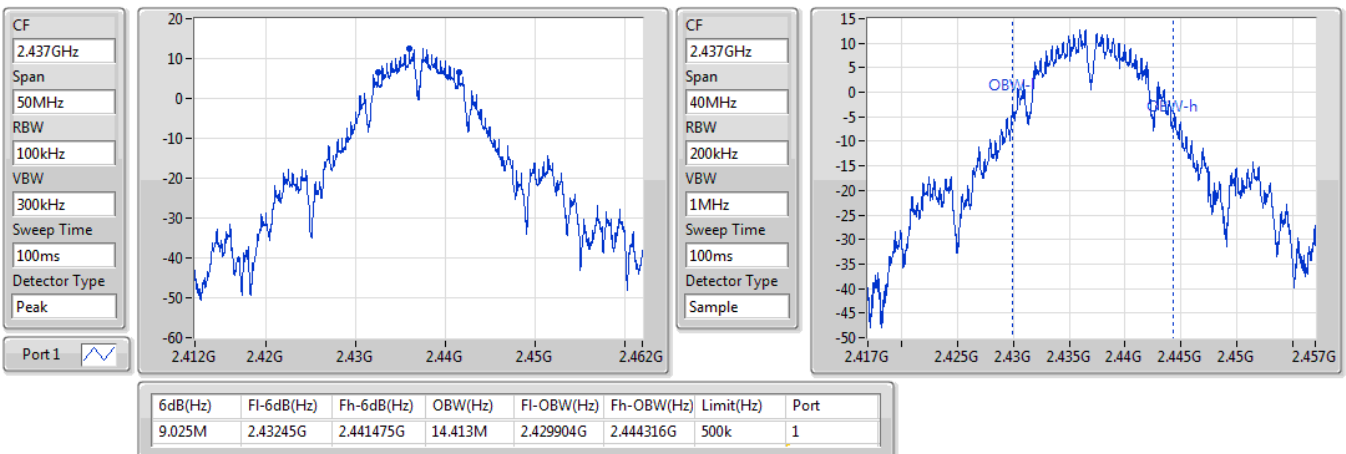
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

29/06/2020


802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

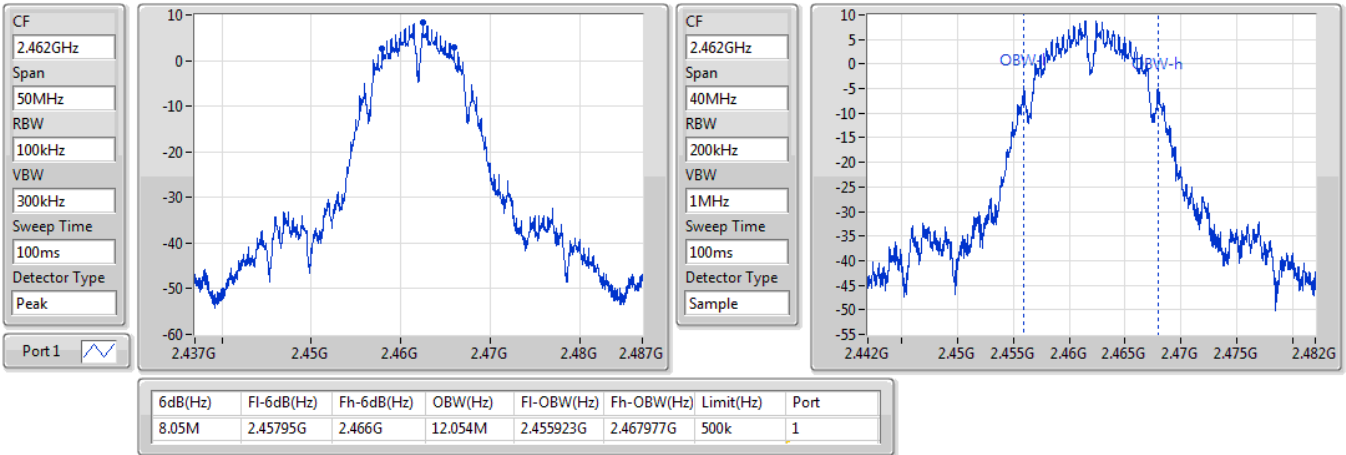
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802.11b_Nss1,(1Mbps)_1TX

EBW
2462MHz

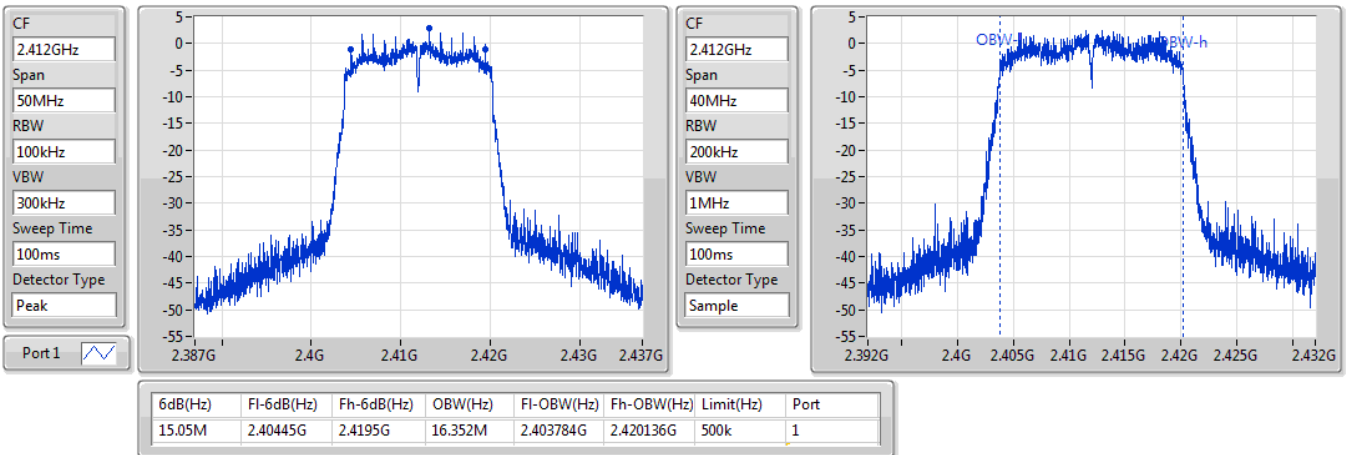
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802.11g_Nss1,(6Mbps)_1TX

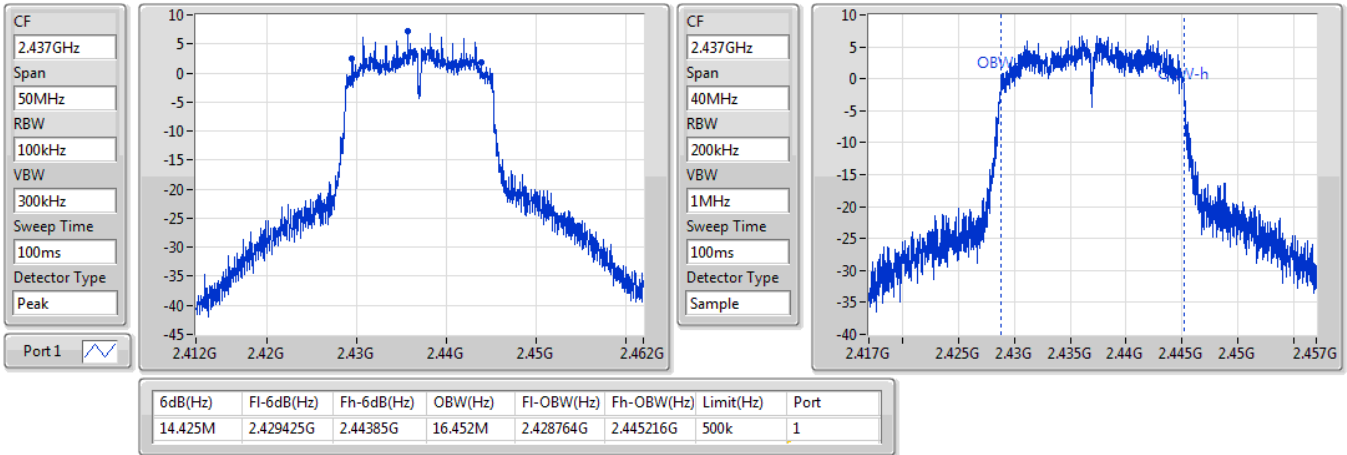
EBW
2412MHz

29/06/2020

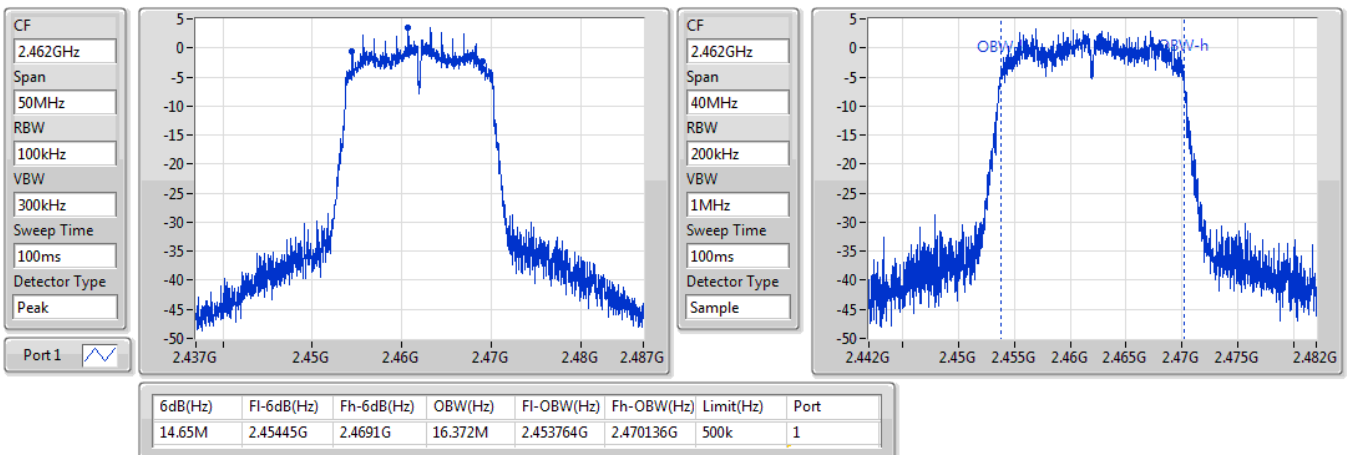


802.11g_Nss1,(6Mbps)_1TX
EBW
2437MHz

29/06/2020

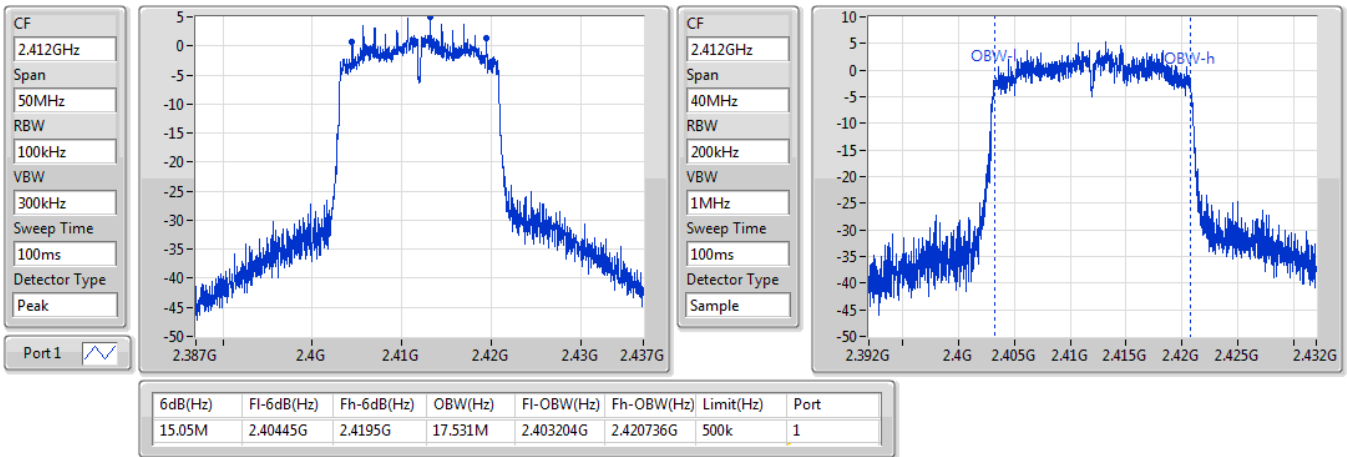

802.11g_Nss1,(6Mbps)_1TX
EBW
2462MHz

29/06/2020

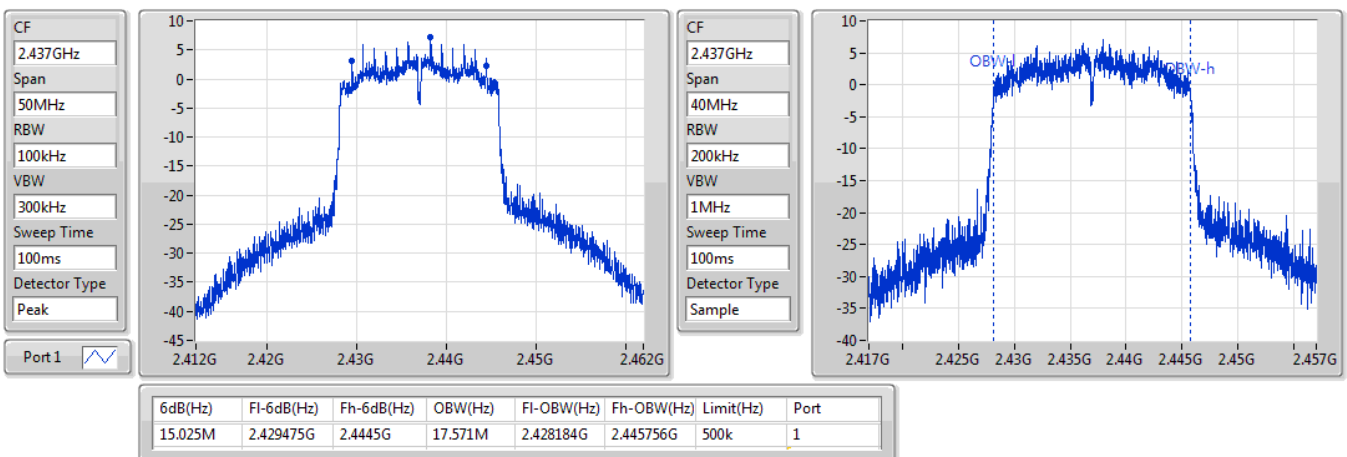


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2412MHz

29/06/2020


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2437MHz

29/06/2020

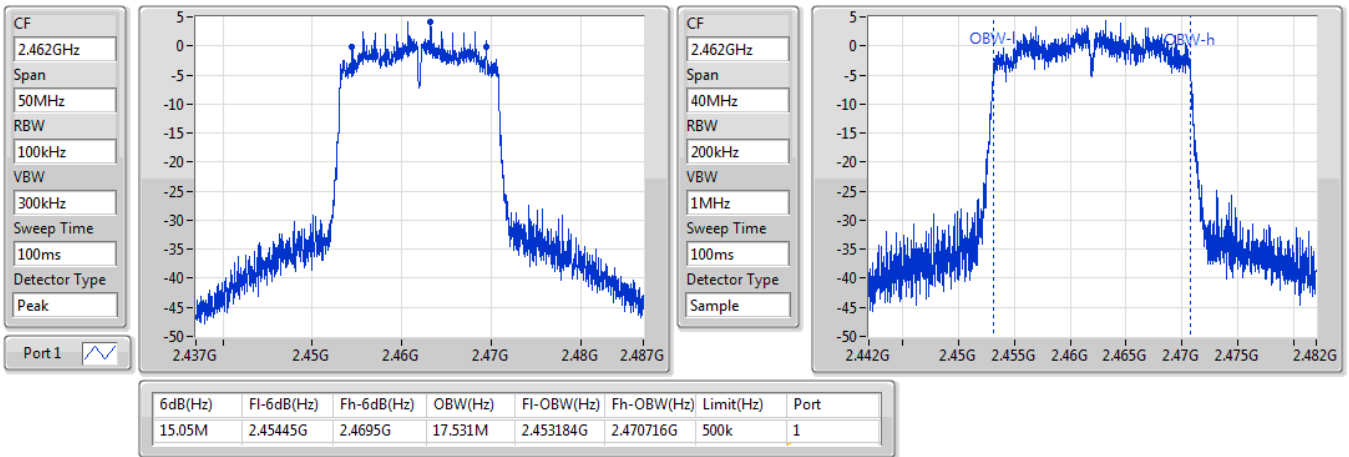


802.11n HT20_Nss1,(MCS0)_1TX

EBW

2462MHz

29/06/2020





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	20.39	0.10940
802.11g_Nss1,(6Mbps)_1TX	17.20	0.05248
802.11n HT20_Nss1,(MCS0)_1TX	16.87	0.04864

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.37	16.96	16.96	30.00
2417MHz_TnomVnom	Pass	1.37	17.40	17.40	30.00
2437MHz_TnomVnom	Pass	1.08	20.39	20.39	30.00
2457MHz_TnomVnom	Pass	1.08	16.24	16.24	30.00
2462MHz_TnomVnom	Pass	1.08	16.06	16.06	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.37	13.31	13.31	30.00
2417MHz_TnomVnom	Pass	1.37	16.53	16.53	30.00
2437MHz_TnomVnom	Pass	1.08	17.20	17.20	30.00
2457MHz_TnomVnom	Pass	1.08	15.64	15.64	30.00
2462MHz_TnomVnom	Pass	1.08	13.88	13.88	30.00
802.11n_HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.37	14.88	14.88	30.00
2417MHz_TnomVnom	Pass	1.37	15.79	15.79	30.00
2437MHz_TnomVnom	Pass	1.08	16.87	16.87	30.00
2457MHz_TnomVnom	Pass	1.08	15.30	15.30	30.00
2462MHz_TnomVnom	Pass	1.08	14.24	14.24	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	0.69
802.11g_Nss1,(6Mbps)_1TX	-7.45
802.11n HT20_Nss1,(MCS0)_1TX	-7.83

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.37	-5.71	-5.71	8.00
2437MHz_TnomVnom	Pass	1.08	0.69	0.69	8.00
2462MHz_TnomVnom	Pass	1.08	-7.16	-7.16	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.37	-11.67	-11.67	8.00
2437MHz_TnomVnom	Pass	1.08	-7.45	-7.45	8.00
2462MHz_TnomVnom	Pass	1.08	-10.80	-10.80	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.37	-8.80	-8.80	8.00
2437MHz_TnomVnom	Pass	1.08	-7.83	-7.83	8.00
2462MHz_TnomVnom	Pass	1.08	-10.14	-10.14	8.00

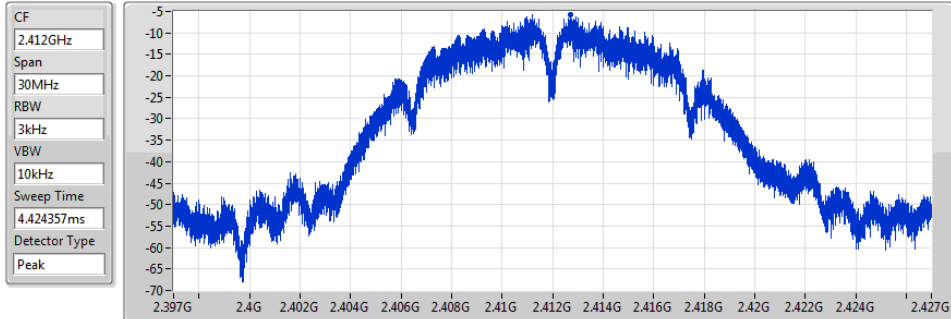
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

29/06/2020



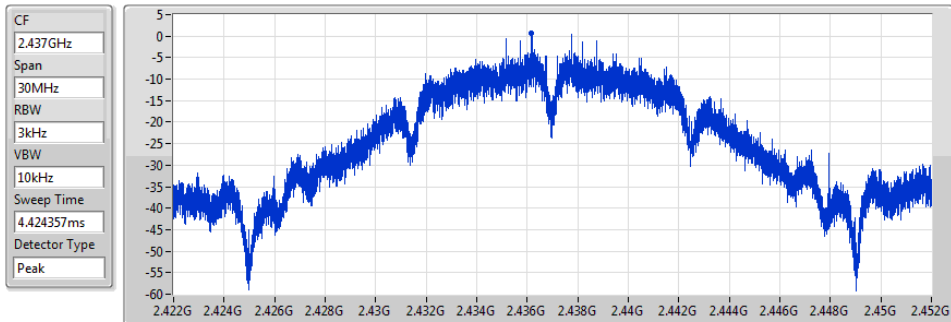
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-5.71	-5.71	-5.71

802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

29/06/2020



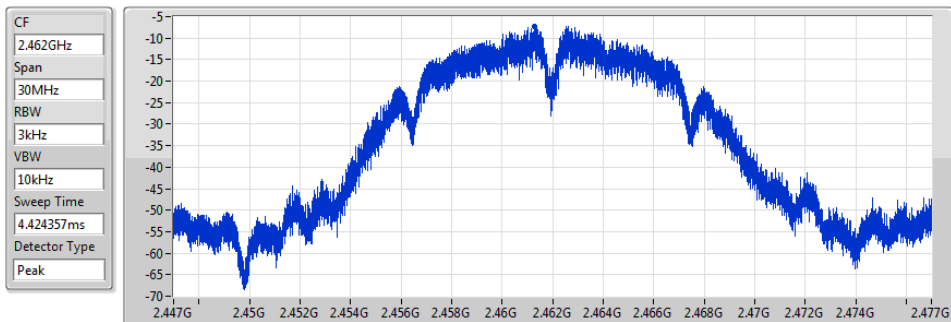
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.69	0.69	0.69

802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

29/06/2020



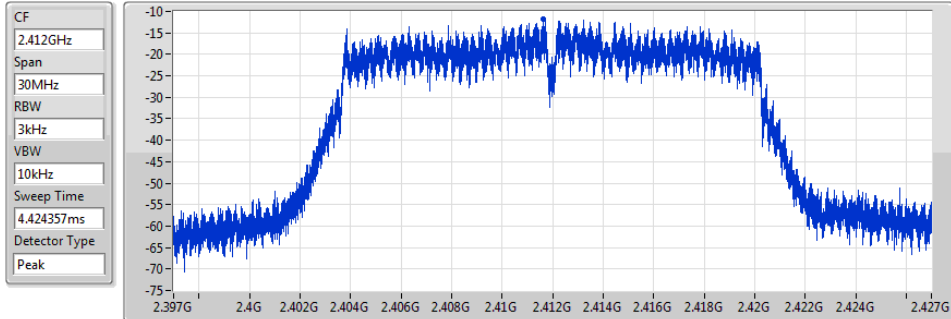
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.16	-7.16	-7.16

802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

29/06/2020



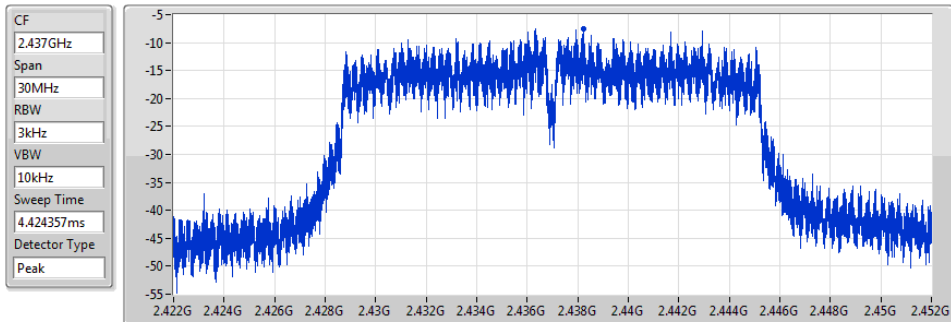
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-11.67	-11.67	-11.67

802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

29/06/2020



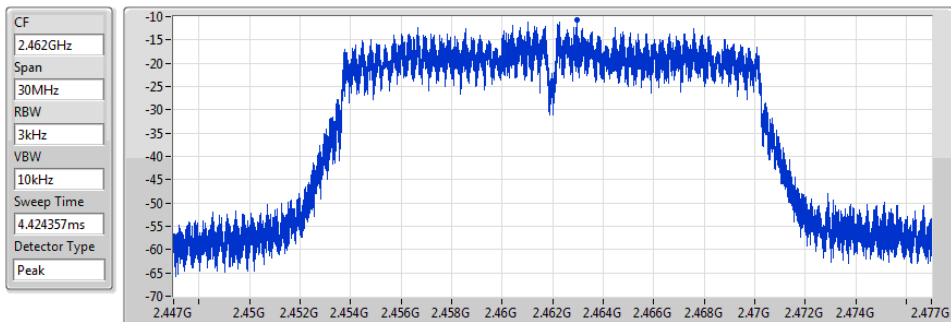
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-7.45	-7.45	-7.45

802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

29/06/2020



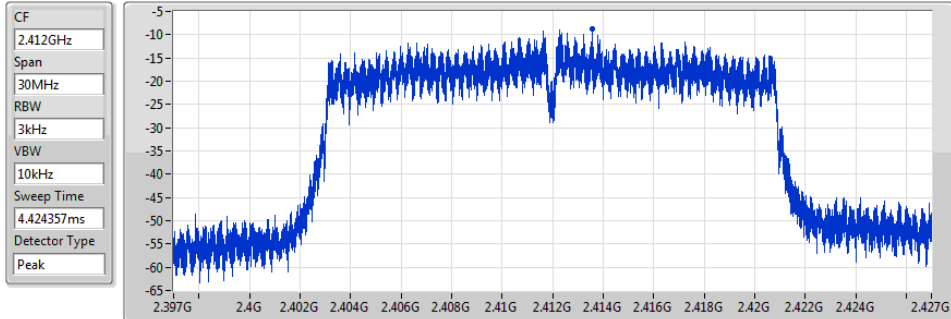
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-10.80	-10.80	-10.80

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2412MHz

29/06/2020



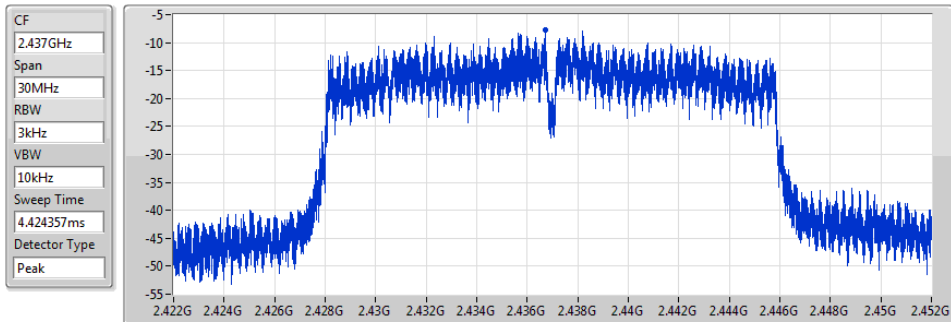
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-8.80	-8.80	-8.80

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

29/06/2020



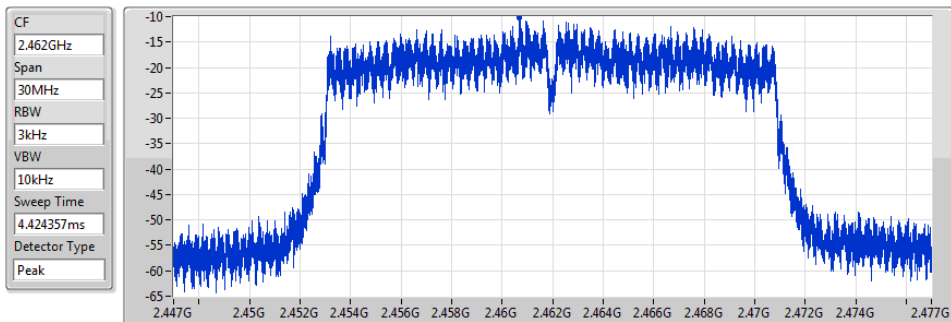
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.83	-7.83	-7.83

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2462MHz

29/06/2020



Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-10.14	-10.14	-10.14

Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.43745G	12.39	-17.61	2.03497G	-54.12	2.39596G	-31.98	2.4G	-36.89	2.5093G	-50.06	23.20188G	-40.34	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43824G	7.29	-22.71	2.12991G	-53.04	2.39956G	-32.72	2.4G	-35.39	2.51172G	-50.19	24.89043G	-40.91	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.4357G	6.98	-23.02	2.14098G	-53.69	2.39818G	-29.32	2.4G	-33.82	2.49082G	-49.73	23.18221G	-40.34	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43745G	12.39	-17.61	2.03497G	-54.12	2.39596G	-31.98	2.4G	-36.89	2.5093G	-50.06	23.20188G	-40.34	1
2437MHz_TnomVnom	Pass	2.43745G	12.39	-17.61	2.19661G	-52.85	2.39896G	-39.58	2.4G	-42.18	2.48596G	-46.29	24.9129G	-40.27	1
2462MHz_TnomVnom	Pass	2.43745G	12.39	-17.61	1.7874G	-54.12	2.39302G	-52.36	2.4835G	-50.00	2.48892G	-44.13	24.89324G	-39.92	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43824G	7.29	-22.71	2.12991G	-53.04	2.39956G	-32.72	2.4G	-35.39	2.51172G	-50.19	24.89043G	-40.91	1
2437MHz_TnomVnom	Pass	2.43824G	7.29	-22.71	2.30204G	-52.60	2.39852G	-41.67	2.4G	-44.03	2.48452G	-42.49	15.05134G	-39.95	1
2462MHz_TnomVnom	Pass	2.43824G	7.29	-22.71	2.30758G	-52.48	2.39878G	-50.65	2.4835G	-41.14	2.4839G	-40.69	16.75112G	-40.49	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.4357G	6.98	-23.02	2.14098G	-53.69	2.39818G	-29.32	2.4G	-33.82	2.49082G	-49.73	23.18221G	-40.34	1
2437MHz_TnomVnom	Pass	2.4357G	6.98	-23.02	2.0804G	-52.50	2.39782G	-42.07	2.4G	-43.44	2.48476G	-44.82	24.95786G	-39.73	1
2462MHz_TnomVnom	Pass	2.4357G	6.98	-23.02	2.1602G	-53.46	2.39904G	-51.15	2.4835G	-40.87	2.48506G	-37.95	16.70336G	-40.35	1

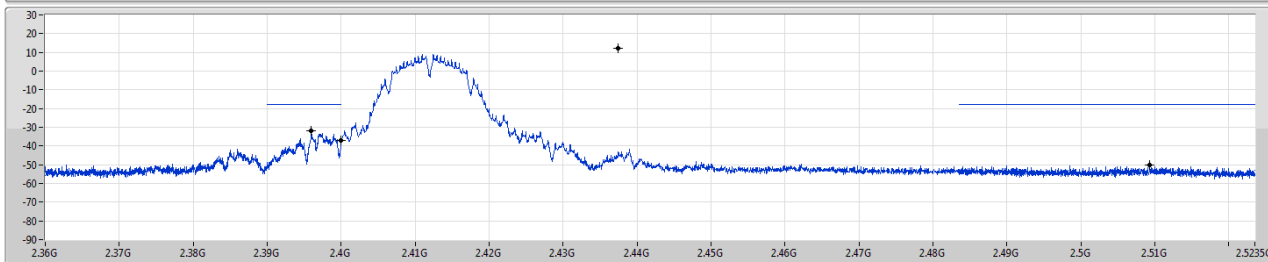
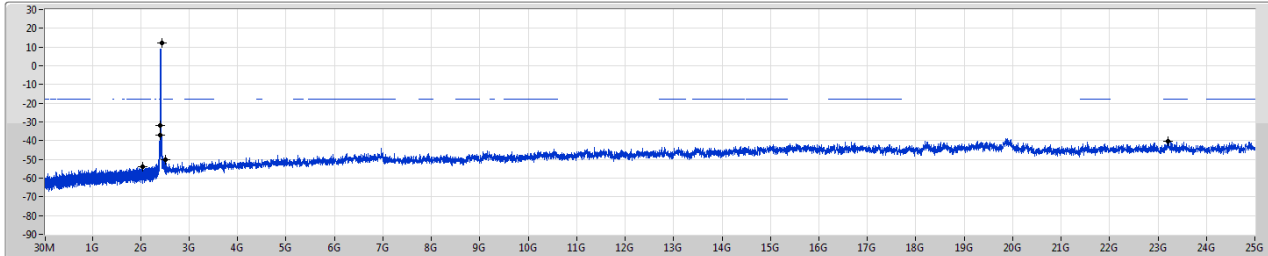
802.11b_Nss1,(1Mbps)_1TX

2412MHz

CSEndB

29/06/2020

Port1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43745G	12.39	-17.61	2.03497G	-54.12	2.39996G	-31.98	2.4G	-36.89	2.5093G	-50.06	23.20188G	-40.34	1

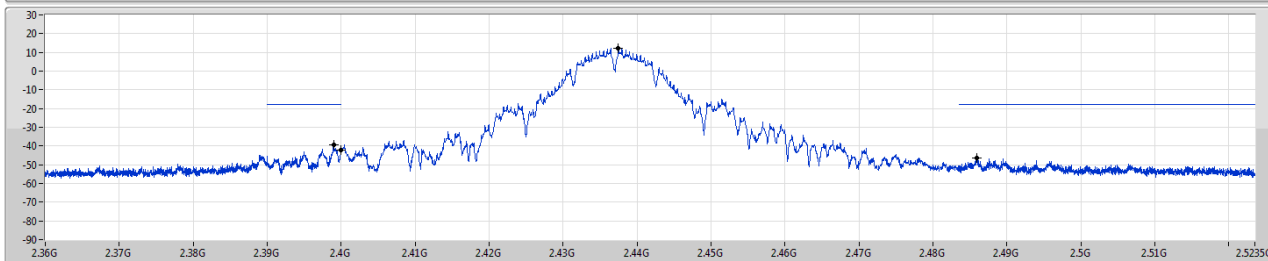
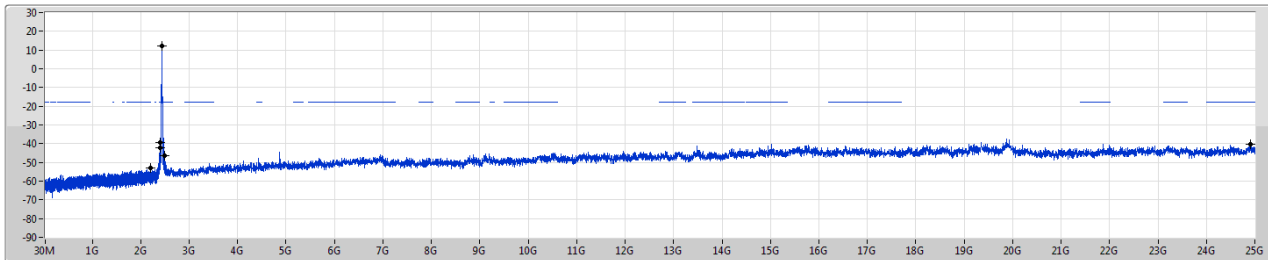
802.11b_Nss1,(1Mbps)_1TX

2437MHz

CSEndB

29/06/2020

Port1



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

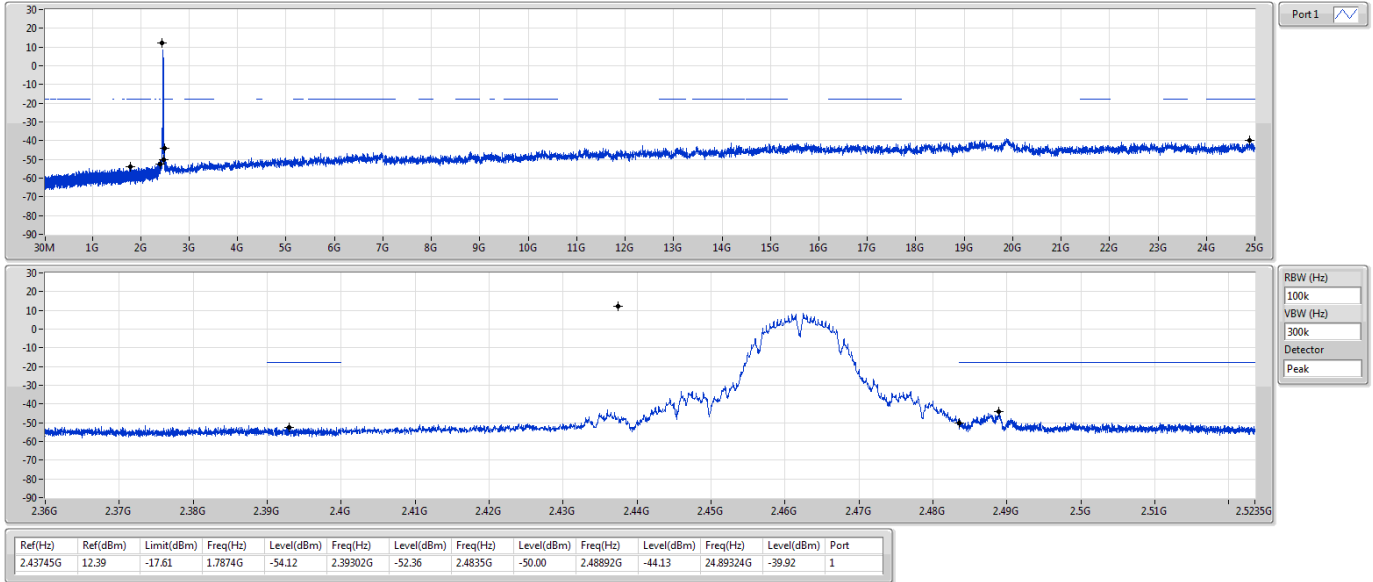
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43745G	12.39	-17.61	2.19661G	-52.85	2.39896G	-39.58	2.4G	-42.18	2.48596G	-46.29	24.9129G	-40.27	1

802.11b_Nss1,(1Mbps)_1TX

2462MHz

CSENdB

29/06/2020

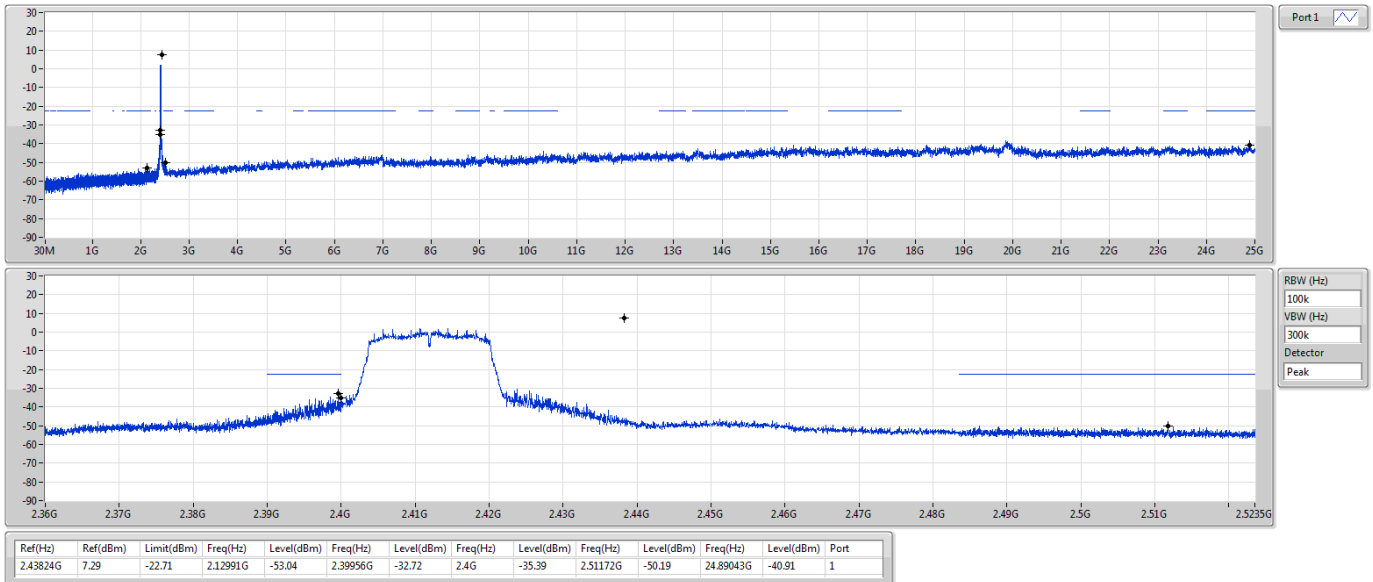


802.11g_Nss1,(6Mbps)_1TX

2412MHz

CSENdB

29/06/2020



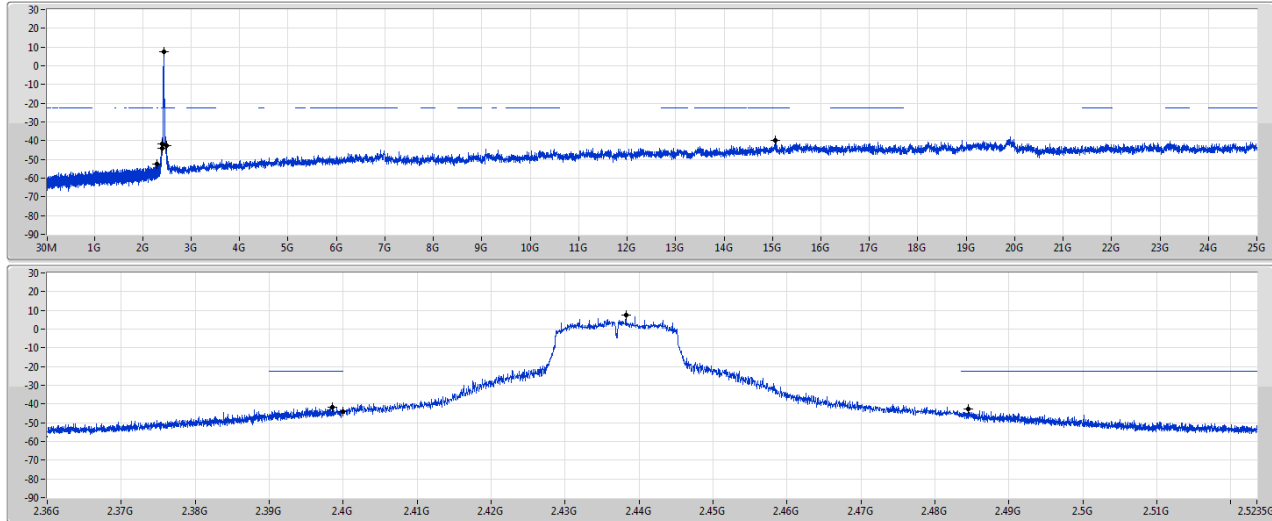
802.11g_Nss1,(6Mbps)_1TX

2437MHz

CSENdB

29/06/2020

Port 1



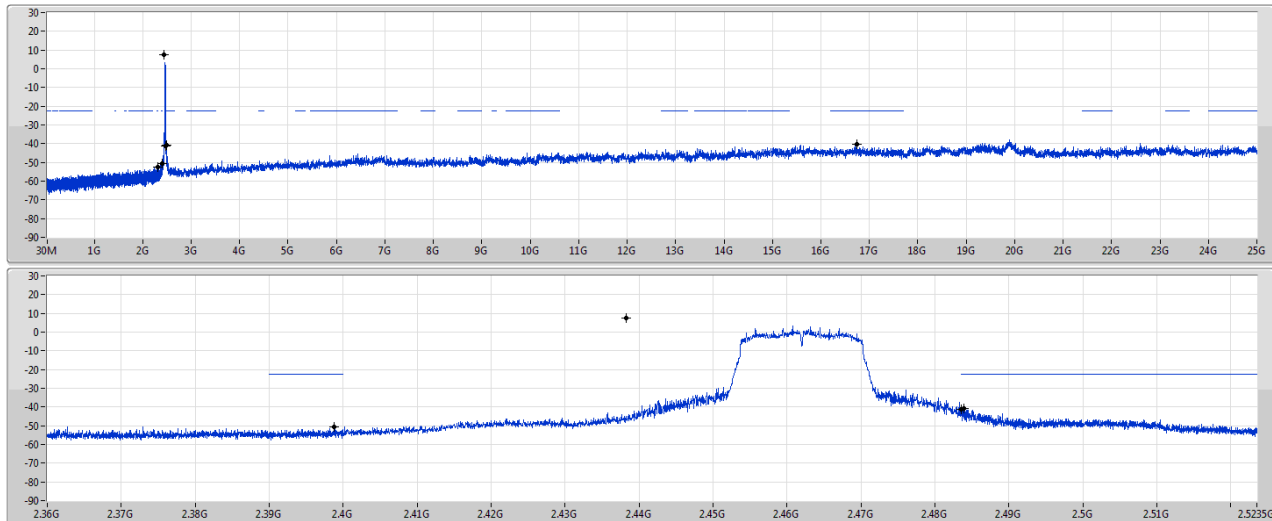
802.11g_Nss1,(6Mbps)_1TX

2462MHz

CSENdB

29/06/2020

Port 1

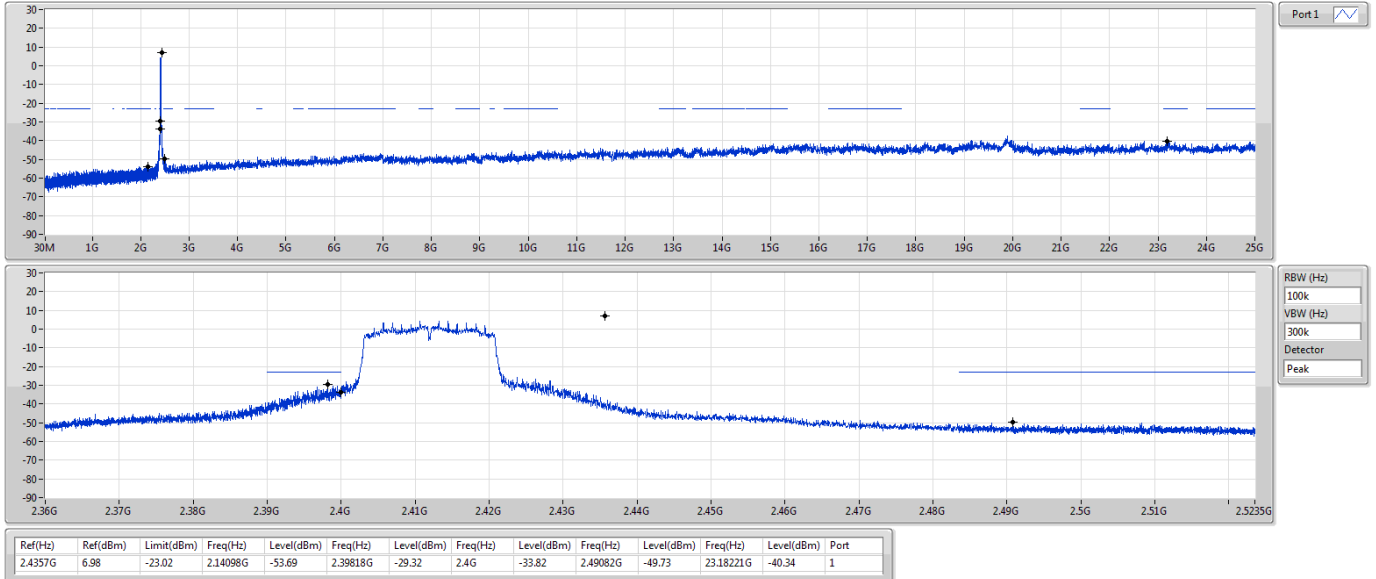


802.11n HT20_Nss1,(MCS0)_1TX

2412MHz

CSENdB

29/06/2020

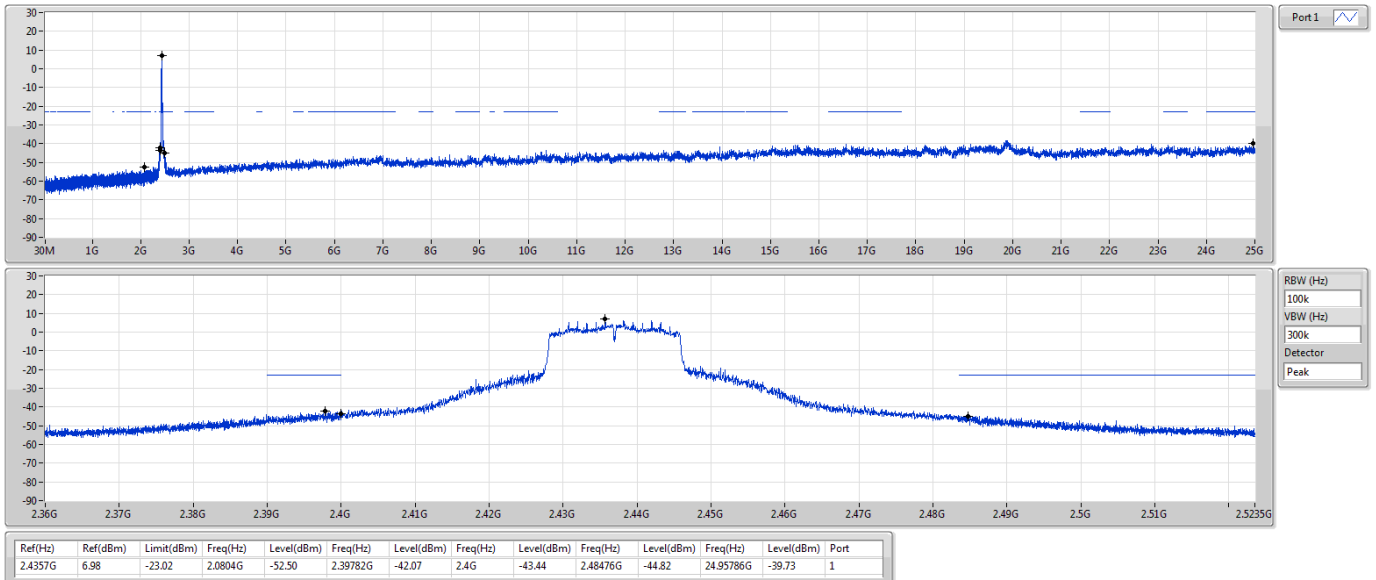


802.11n HT20_Nss1,(MCS0)_1TX

2437MHz

CSENdB

29/06/2020

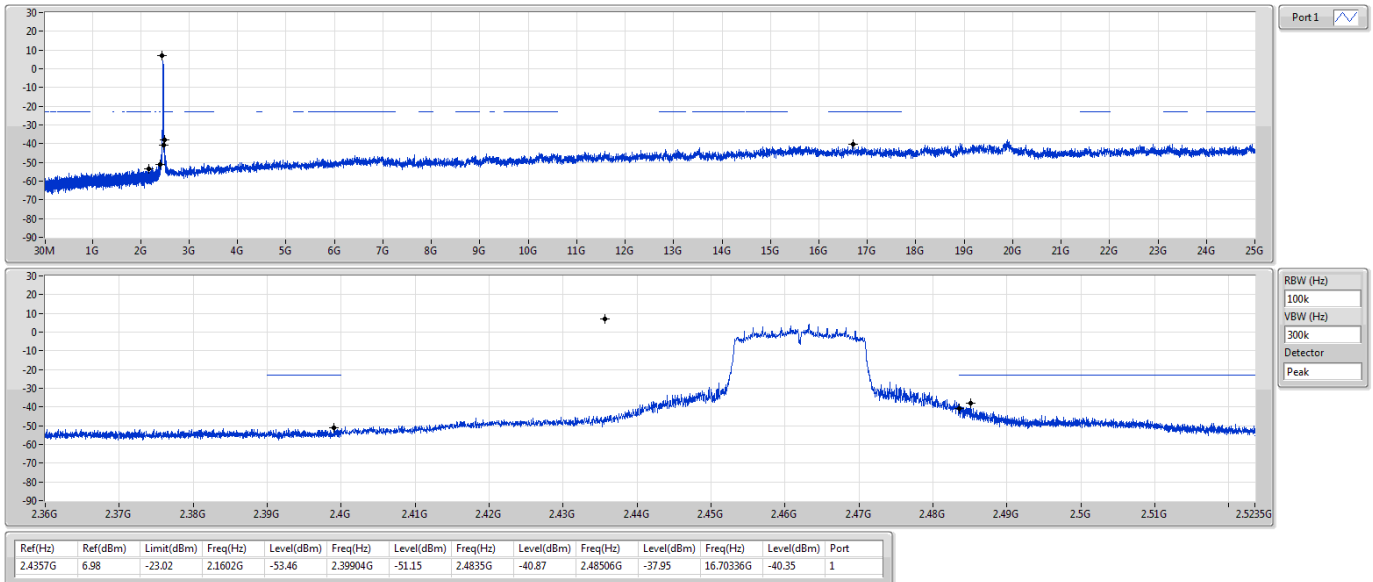


802.11n HT20_Nss1,(MCS0)_1TX

CSEn dB

2462MHz

29/06/2020





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	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	PK	72.68M	31.73	40.00	-8.27	3	Horizontal	0	1.00	-

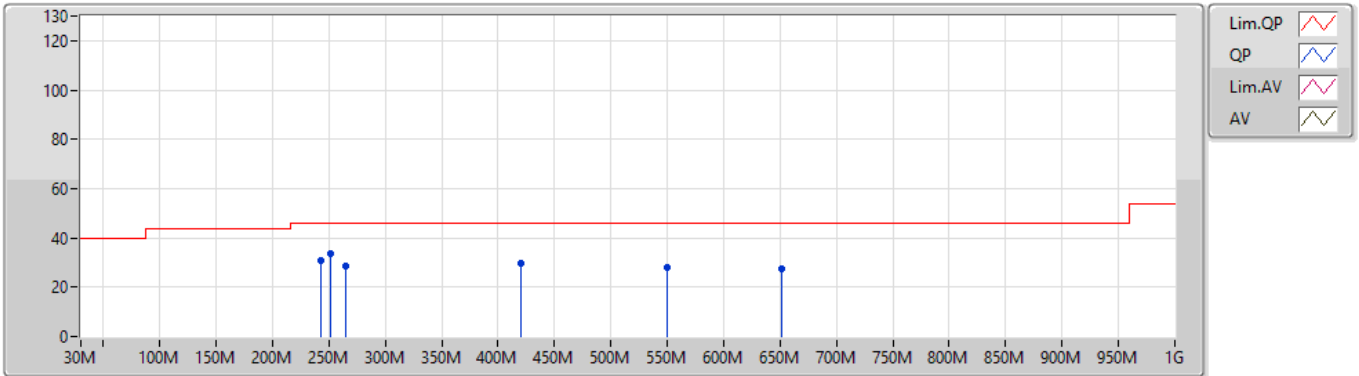
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	243.4M	31.02	46.00	-14.98	3	Vertical	360	1.00	-
2437MHz	Pass	PK	251.16M	33.68	46.00	-12.32	3	Vertical	360	1.00	-
2437MHz	Pass	PK	264.74M	28.76	46.00	-17.24	3	Vertical	360	1.00	-
2437MHz	Pass	PK	419.94M	29.68	46.00	-16.32	3	Vertical	360	1.00	-
2437MHz	Pass	PK	549.92M	28.00	46.00	-18.00	3	Vertical	360	1.00	-
2437MHz	Pass	PK	650.8M	27.59	46.00	-18.41	3	Vertical	360	1.00	-
2437MHz	Pass	PK	72.68M	31.73	40.00	-8.27	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	94.02M	28.21	43.50	-15.29	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	260.86M	33.37	46.00	-12.63	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	291.9M	35.25	46.00	-10.75	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	348.16M	35.28	46.00	-10.72	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	503.36M	30.43	46.00	-15.57	3	Horizontal	0	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX

20/05/2020

2437MHz_Switching Power Supply

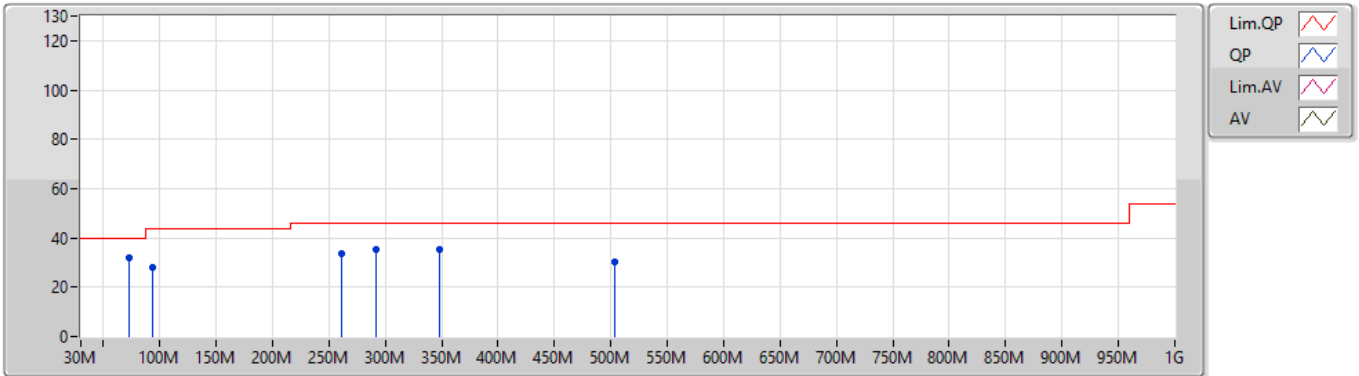


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	243.4M	31.02	46.00	-14.98	-18.38	3	Vertical	360	1.00	-	49.40	16.75	1.27	36.40
PK	251.16M	33.68	46.00	-12.32	-17.36	3	Vertical	360	1.00	-	51.04	17.77	1.30	36.43
PK	264.74M	28.76	46.00	-17.24	-15.76	3	Vertical	360	1.00	-	44.52	19.32	1.33	36.41
PK	419.94M	29.68	46.00	-16.32	-12.97	3	Vertical	360	1.00	-	42.65	21.79	1.74	36.50
PK	549.92M	28.00	46.00	-18.00	-11.02	3	Vertical	360	1.00	-	39.02	24.07	2.00	37.09
PK	650.8M	27.59	46.00	-18.41	-9.35	3	Vertical	360	1.00	-	36.94	25.44	2.20	36.99

802.11n HT20_Nss1,(MCS0)_1TX

20/05/2020

2437MHz_Switching Power Supply



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	72.68M	31.73	40.00	-8.27	-24.76	3	Horizontal	0	1.00	-	56.49	11.42	0.65	36.83
PK	94.02M	28.21	43.50	-15.29	-21.40	3	Horizontal	0	1.00	-	49.61	14.47	0.70	36.57
PK	260.86M	33.37	46.00	-12.63	-15.83	3	Horizontal	0	1.00	-	49.20	19.26	1.32	36.41
PK	291.9M	35.25	46.00	-10.75	-16.80	3	Horizontal	0	1.00	-	52.05	18.18	1.38	36.36
PK	348.16M	35.28	46.00	-10.72	-15.63	3	Horizontal	0	1.00	-	50.91	19.36	1.50	36.49
PK	503.36M	30.43	46.00	-15.57	-12.12	3	Horizontal	0	1.00	-	42.55	22.98	1.91	37.01

**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)_1TX	Pass	AV	2.39G	51.25	54.00	-2.75	3	Horizontal	51	1.15	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.39G	51.08	54.00	-2.92	3	Horizontal	58	2.57	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.39G	51.21	54.00	-2.79	3	Horizontal	44	1.45	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.386G	46.88	54.00	-7.12	3	Vertical	340	1.50	-
2412MHz	Pass	AV	2.4126G	96.07	Inf	-Inf	3	Vertical	340	1.50	-
2412MHz	Pass	PK	2.3758G	58.26	74.00	-15.74	3	Vertical	340	1.50	-
2412MHz	Pass	PK	2.413G	100.18	Inf	-Inf	3	Vertical	340	1.50	-
2412MHz	Pass	AV	2.386G	51.11	54.00	-2.89	3	Horizontal	49	1.44	-
2412MHz	Pass	AV	2.4126G	102.59	Inf	-Inf	3	Horizontal	49	1.44	-
2412MHz	Pass	PK	2.3844G	60.31	74.00	-13.69	3	Horizontal	49	1.44	-
2412MHz	Pass	PK	2.411G	106.74	Inf	-Inf	3	Horizontal	49	1.44	-
2412MHz	Pass	AV	4.82387G	33.58	54.00	-20.42	3	Vertical	15	1.18	-
2412MHz	Pass	PK	4.82374G	45.05	74.00	-28.95	3	Vertical	15	1.18	-
2412MHz	Pass	AV	4.82387G	36.48	54.00	-17.52	3	Horizontal	15	2.30	-
2412MHz	Pass	PK	4.82408G	46.08	74.00	-27.92	3	Horizontal	15	2.30	-
2417MHz	Pass	AV	2.39G	49.34	54.00	-4.66	3	Vertical	77	2.87	-
2417MHz	Pass	AV	2.4162G	101.32	Inf	-Inf	3	Vertical	77	2.87	-
2417MHz	Pass	PK	2.3896G	59.43	74.00	-14.57	3	Vertical	77	2.87	-
2417MHz	Pass	PK	2.416G	105.08	Inf	-Inf	3	Vertical	77	2.87	-
2417MHz	Pass	AV	2.39G	51.25	54.00	-2.75	3	Horizontal	51	1.15	-
2417MHz	Pass	AV	2.4162G	103.50	Inf	-Inf	3	Horizontal	51	1.15	-
2417MHz	Pass	PK	2.3898G	59.77	74.00	-14.23	3	Horizontal	51	1.15	-
2417MHz	Pass	PK	2.418G	107.44	Inf	-Inf	3	Horizontal	51	1.15	-
2437MHz	Pass	AV	2.389G	47.24	54.00	-6.76	3	Vertical	175	1.46	-
2437MHz	Pass	AV	2.4362G	102.55	Inf	-Inf	3	Vertical	175	1.46	-
2437MHz	Pass	AV	2.4846G	46.49	54.00	-7.51	3	Vertical	175	1.46	-
2437MHz	Pass	PK	2.3894G	58.64	74.00	-15.36	3	Vertical	175	1.46	-
2437MHz	Pass	PK	2.4362G	106.58	Inf	-Inf	3	Vertical	175	1.46	-
2437MHz	Pass	PK	2.4926G	59.14	74.00	-14.86	3	Vertical	175	1.46	-
2437MHz	Pass	AV	2.389G	47.95	54.00	-6.05	3	Horizontal	309	1.31	-
2437MHz	Pass	AV	2.4362G	105.89	Inf	-Inf	3	Horizontal	309	1.31	-
2437MHz	Pass	AV	2.485G	47.76	54.00	-6.24	3	Horizontal	309	1.31	-
2437MHz	Pass	PK	2.3894G	58.32	74.00	-15.68	3	Horizontal	309	1.31	-
2437MHz	Pass	PK	2.4362G	109.67	Inf	-Inf	3	Horizontal	309	1.31	-
2437MHz	Pass	PK	2.4882G	59.11	74.00	-14.89	3	Horizontal	309	1.31	-
2437MHz	Pass	AV	4.87386G	44.17	54.00	-9.83	3	Vertical	297	1.20	-
2437MHz	Pass	PK	4.87394G	49.89	74.00	-24.11	3	Vertical	297	1.20	-
2437MHz	Pass	AV	4.87386G	44.82	54.00	-9.18	3	Horizontal	142	1.14	-
2437MHz	Pass	PK	4.87388G	49.92	74.00	-24.08	3	Horizontal	142	1.14	-
2457MHz	Pass	AV	2.4562G	98.70	Inf	-Inf	3	Vertical	343	1.00	-
2457MHz	Pass	AV	2.4836G	47.55	54.00	-6.45	3	Vertical	343	1.00	-
2457MHz	Pass	PK	2.4578G	102.68	Inf	-Inf	3	Vertical	343	1.00	-
2457MHz	Pass	PK	2.4835G	58.35	74.00	-15.65	3	Vertical	343	1.00	-
2457MHz	Pass	AV	2.4562G	103.37	Inf	-Inf	3	Horizontal	52	1.07	-
2457MHz	Pass	AV	2.4838G	50.82	54.00	-3.18	3	Horizontal	52	1.07	-
2457MHz	Pass	PK	2.456G	107.13	Inf	-Inf	3	Horizontal	52	1.07	-
2457MHz	Pass	PK	2.4838G	60.46	74.00	-13.54	3	Horizontal	52	1.07	-
2462MHz	Pass	AV	2.4612G	98.66	Inf	-Inf	3	Vertical	344	1.00	-
2462MHz	Pass	AV	2.4876G	47.82	54.00	-6.18	3	Vertical	344	1.00	-
2462MHz	Pass	PK	2.463G	102.48	Inf	-Inf	3	Vertical	344	1.00	-
2462MHz	Pass	PK	2.4866G	58.30	74.00	-15.70	3	Vertical	344	1.00	-
2462MHz	Pass	AV	2.4612G	103.08	Inf	-Inf	3	Horizontal	54	1.61	-
2462MHz	Pass	AV	2.4876G	50.75	54.00	-3.25	3	Horizontal	54	1.61	-
2462MHz	Pass	PK	2.4628G	107.02	Inf	-Inf	3	Horizontal	54	1.61	-
2462MHz	Pass	PK	2.4874G	60.28	74.00	-13.72	3	Horizontal	54	1.61	-
2462MHz	Pass	AV	4.92383G	33.12	54.00	-20.88	3	Vertical	248	1.79	-
2462MHz	Pass	PK	4.92389G	45.16	74.00	-28.84	3	Vertical	248	1.79	-
2462MHz	Pass	AV	4.92386G	33.09	54.00	-20.91	3	Horizontal	2	1.14	-
2462MHz	Pass	PK	4.92386G	45.02	74.00	-28.98	3	Horizontal	2	1.14	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	49.74	54.00	-4.26	3	Vertical	106	2.93	-
2412MHz	Pass	AV	2.413G	95.69	Inf	-Inf	3	Vertical	106	2.93	-
2412MHz	Pass	PK	2.3894G	64.28	74.00	-9.72	3	Vertical	106	2.93	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2412MHz	Pass	PK	2.41G	105.30	Inf	-Inf	3	Vertical	106	2.93	-
2412MHz	Pass	AV	2.39G	51.08	54.00	-2.92	3	Horizontal	58	2.57	-
2412MHz	Pass	AV	2.4114G	97.46	Inf	-Inf	3	Horizontal	58	2.57	-
2412MHz	Pass	PK	2.3896G	66.75	74.00	-7.25	3	Horizontal	58	2.57	-
2412MHz	Pass	PK	2.4124G	107.09	Inf	-Inf	3	Horizontal	58	2.57	-
2412MHz	Pass	AV	4.82384G	31.48	54.00	-22.52	3	Vertical	24	2.44	-
2412MHz	Pass	PK	4.81832G	43.86	74.00	-30.14	3	Vertical	24	2.44	-
2412MHz	Pass	AV	4.82384G	30.55	54.00	-23.45	3	Horizontal	31	1.49	-
2412MHz	Pass	PK	4.8174G	44.11	74.00	-29.89	3	Horizontal	31	1.49	-
2417MHz	Pass	AV	2.3886G	50.44	54.00	-3.56	3	Vertical	104	2.88	-
2417MHz	Pass	AV	2.4162G	95.26	Inf	-Inf	3	Vertical	104	2.88	-
2417MHz	Pass	PK	2.3884G	64.89	74.00	-9.11	3	Vertical	104	2.88	-
2417MHz	Pass	PK	2.4168G	106.66	Inf	-Inf	3	Vertical	104	2.88	-
2417MHz	Pass	AV	2.3896G	51.06	54.00	-2.94	3	Horizontal	45	1.46	-
2417MHz	Pass	AV	2.4178G	96.16	Inf	-Inf	3	Horizontal	45	1.46	-
2417MHz	Pass	PK	2.3898G	66.75	74.00	-7.25	3	Horizontal	45	1.46	-
2417MHz	Pass	PK	2.4144G	106.29	Inf	-Inf	3	Horizontal	45	1.46	-
2437MHz	Pass	AV	2.3898G	48.35	54.00	-5.65	3	Vertical	108	2.54	-
2437MHz	Pass	AV	2.4362G	97.09	Inf	-Inf	3	Vertical	108	2.54	-
2437MHz	Pass	AV	2.4835G	49.01	54.00	-4.99	3	Vertical	108	2.54	-
2437MHz	Pass	PK	2.389G	60.37	74.00	-13.63	3	Vertical	108	2.54	-
2437MHz	Pass	PK	2.437G	106.48	Inf	-Inf	3	Vertical	108	2.54	-
2437MHz	Pass	PK	2.485G	62.09	74.00	-11.91	3	Vertical	108	2.54	-
2437MHz	Pass	AV	2.3894G	49.05	54.00	-4.95	3	Horizontal	58	2.06	-
2437MHz	Pass	AV	2.4378G	99.77	Inf	-Inf	3	Horizontal	58	2.06	-
2437MHz	Pass	AV	2.4835G	50.26	54.00	-3.74	3	Horizontal	58	2.06	-
2437MHz	Pass	PK	2.3814G	62.32	74.00	-11.68	3	Horizontal	58	2.06	-
2437MHz	Pass	PK	2.437G	109.58	Inf	-Inf	3	Horizontal	58	2.06	-
2437MHz	Pass	PK	2.4842G	62.75	74.00	-11.25	3	Horizontal	58	2.06	-
2437MHz	Pass	AV	4.8738G	31.79	54.00	-22.21	3	Vertical	26	1.97	-
2437MHz	Pass	PK	4.8754G	44.59	74.00	-29.41	3	Vertical	26	1.97	-
2437MHz	Pass	AV	4.87476G	30.71	54.00	-23.29	3	Horizontal	232	1.49	-
2437MHz	Pass	PK	4.87608G	44.23	74.00	-29.77	3	Horizontal	232	1.49	-
2457MHz	Pass	AV	2.4576G	93.52	Inf	-Inf	3	Vertical	342	1.00	-
2457MHz	Pass	AV	2.4835G	50.51	54.00	-3.49	3	Vertical	342	1.00	-
2457MHz	Pass	PK	2.4614G	103.16	Inf	-Inf	3	Vertical	342	1.00	-
2457MHz	Pass	PK	2.4836G	64.13	74.00	-9.87	3	Vertical	342	1.00	-
2457MHz	Pass	AV	2.4562G	93.33	Inf	-Inf	3	Horizontal	338	1.00	-
2457MHz	Pass	AV	2.4836G	50.64	54.00	-3.36	3	Horizontal	338	1.00	-
2457MHz	Pass	PK	2.4568G	103.91	Inf	-Inf	3	Horizontal	338	1.00	-
2457MHz	Pass	PK	2.4842G	65.39	74.00	-8.61	3	Horizontal	338	1.00	-
2462MHz	Pass	AV	2.4612G	90.81	Inf	-Inf	3	Vertical	332	1.35	-
2462MHz	Pass	AV	2.4836G	47.88	54.00	-6.12	3	Vertical	332	1.35	-
2462MHz	Pass	PK	2.4634G	100.55	Inf	-Inf	3	Vertical	332	1.35	-
2462MHz	Pass	PK	2.4872G	62.67	74.00	-11.33	3	Vertical	332	1.35	-
2462MHz	Pass	AV	2.4628G	96.88	Inf	-Inf	3	Horizontal	65	2.49	-
2462MHz	Pass	AV	2.4835G	50.50	54.00	-3.50	3	Horizontal	65	2.49	-
2462MHz	Pass	PK	2.4628G	107.02	Inf	-Inf	3	Horizontal	65	2.49	-
2462MHz	Pass	PK	2.4835G	69.21	74.00	-4.79	3	Horizontal	65	2.49	-
2462MHz	Pass	AV	4.92384G	32.37	54.00	-21.63	3	Vertical	170	2.95	-
2462MHz	Pass	PK	4.92396G	44.31	74.00	-29.69	3	Vertical	170	2.95	-
2462MHz	Pass	AV	4.92404G	31.45	54.00	-22.55	3	Horizontal	105	1.04	-
2462MHz	Pass	PK	4.92448G	43.67	74.00	-30.33	3	Horizontal	105	1.04	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	50.91	54.00	-3.09	3	Vertical	103	2.91	-
2412MHz	Pass	AV	2.4128G	93.08	Inf	-Inf	3	Vertical	103	2.91	-
2412MHz	Pass	PK	2.3874G	67.47	74.00	-6.53	3	Vertical	103	2.91	-
2412MHz	Pass	PK	2.4098G	104.84	Inf	-Inf	3	Vertical	103	2.91	-
2412MHz	Pass	AV	2.39G	51.21	54.00	-2.79	3	Horizontal	44	1.45	-
2412MHz	Pass	AV	2.4112G	94.15	Inf	-Inf	3	Horizontal	44	1.45	-
2412MHz	Pass	PK	2.3898G	67.12	74.00	-6.88	3	Horizontal	44	1.45	-
2412MHz	Pass	PK	2.4108G	105.54	Inf	-Inf	3	Horizontal	44	1.45	-

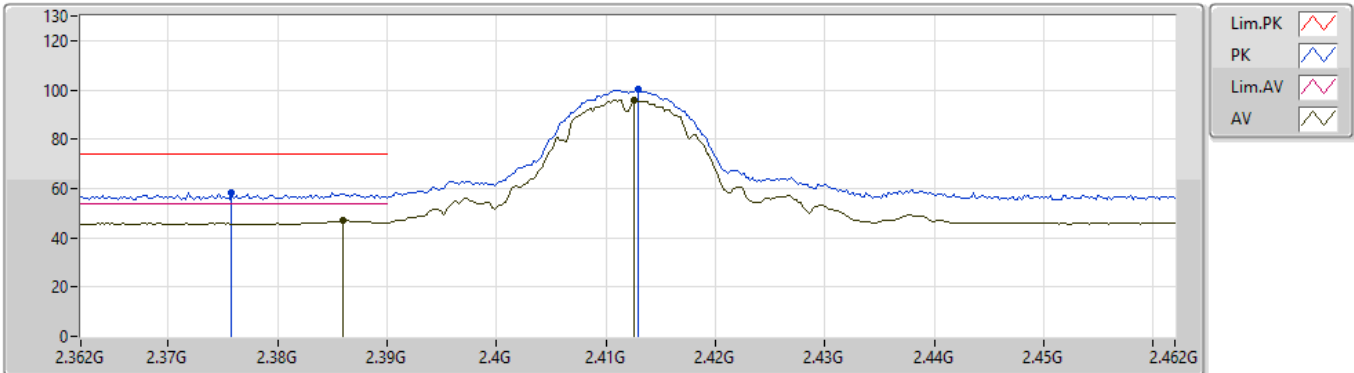


Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2412MHz	Pass	AV	4.82384G	31.23	54.00	-22.77	3	Vertical	25	2.22	-
2412MHz	Pass	PK	4.8236G	43.88	74.00	-30.12	3	Vertical	25	2.22	-
2412MHz	Pass	AV	4.8238G	30.49	54.00	-23.51	3	Horizontal	109	1.00	-
2412MHz	Pass	PK	4.82932G	43.41	74.00	-30.59	3	Horizontal	109	1.00	-
2417MHz	Pass	AV	2.39G	50.71	54.00	-3.29	3	Vertical	103	2.90	-
2417MHz	Pass	AV	2.418G	94.83	Inf	-Inf	3	Vertical	103	2.90	-
2417MHz	Pass	PK	2.3896G	65.98	74.00	-8.02	3	Vertical	103	2.90	-
2417MHz	Pass	PK	2.418G	105.96	Inf	-Inf	3	Vertical	103	2.90	-
2417MHz	Pass	AV	2.3898G	51.08	54.00	-2.92	3	Horizontal	52	1.49	-
2417MHz	Pass	AV	2.4164G	94.59	Inf	-Inf	3	Horizontal	52	1.49	-
2417MHz	Pass	PK	2.3892G	66.44	74.00	-7.56	3	Horizontal	52	1.49	-
2417MHz	Pass	PK	2.4224G	105.57	Inf	-Inf	3	Horizontal	52	1.49	-
2437MHz	Pass	AV	2.3898G	48.59	54.00	-5.41	3	Vertical	100	2.60	-
2437MHz	Pass	AV	2.4358G	96.11	Inf	-Inf	3	Vertical	100	2.60	-
2437MHz	Pass	AV	2.4835G	48.47	54.00	-5.53	3	Vertical	100	2.60	-
2437MHz	Pass	PK	2.3882G	62.10	74.00	-11.90	3	Vertical	100	2.60	-
2437MHz	Pass	PK	2.4386G	106.98	Inf	-Inf	3	Vertical	100	2.60	-
2437MHz	Pass	PK	2.4838G	62.88	74.00	-11.12	3	Vertical	100	2.60	-
2437MHz	Pass	AV	2.3898G	49.45	54.00	-4.55	3	Horizontal	38	1.05	-
2437MHz	Pass	AV	2.4362G	97.07	Inf	-Inf	3	Horizontal	38	1.05	-
2437MHz	Pass	AV	2.4835G	50.47	54.00	-3.53	3	Horizontal	38	1.05	-
2437MHz	Pass	PK	2.3874G	64.50	74.00	-9.50	3	Horizontal	38	1.05	-
2437MHz	Pass	PK	2.4358G	107.39	Inf	-Inf	3	Horizontal	38	1.05	-
2437MHz	Pass	PK	2.4858G	66.07	74.00	-7.93	3	Horizontal	38	1.05	-
2437MHz	Pass	AV	4.87396G	31.12	54.00	-22.88	3	Vertical	16	2.16	-
2437MHz	Pass	PK	4.87952G	44.17	74.00	-29.83	3	Vertical	16	2.16	-
2437MHz	Pass	AV	4.8738G	31.54	54.00	-22.46	3	Horizontal	227	2.33	-
2437MHz	Pass	PK	4.87548G	45.15	74.00	-28.85	3	Horizontal	227	2.33	-
2457MHz	Pass	AV	2.458G	90.85	Inf	-Inf	3	Vertical	347	1.00	-
2457MHz	Pass	AV	2.4835G	47.82	54.00	-6.18	3	Vertical	347	1.00	-
2457MHz	Pass	PK	2.4584G	101.85	Inf	-Inf	3	Vertical	347	1.00	-
2457MHz	Pass	PK	2.4842G	62.17	74.00	-11.83	3	Vertical	347	1.00	-
2457MHz	Pass	AV	2.458G	95.96	Inf	-Inf	3	Horizontal	67	2.50	-
2457MHz	Pass	AV	2.4835G	50.95	54.00	-3.05	3	Horizontal	67	2.50	-
2457MHz	Pass	PK	2.4578G	107.16	Inf	-Inf	3	Horizontal	67	2.50	-
2457MHz	Pass	PK	2.4836G	66.68	74.00	-7.32	3	Horizontal	67	2.50	-
2462MHz	Pass	AV	2.4612G	90.49	Inf	-Inf	3	Vertical	345	1.00	-
2462MHz	Pass	AV	2.4835G	48.69	54.00	-5.31	3	Vertical	345	1.00	-
2462MHz	Pass	PK	2.4622G	101.67	Inf	-Inf	3	Vertical	345	1.00	-
2462MHz	Pass	PK	2.4842G	68.13	74.00	-5.87	3	Vertical	345	1.00	-
2462MHz	Pass	AV	2.463G	93.31	Inf	-Inf	3	Horizontal	79	2.49	-
2462MHz	Pass	AV	2.4835G	50.97	54.00	-3.03	3	Horizontal	79	2.49	-
2462MHz	Pass	PK	2.4608G	105.24	Inf	-Inf	3	Horizontal	79	2.49	-
2462MHz	Pass	PK	2.4836G	69.93	74.00	-4.07	3	Horizontal	79	2.49	-
2462MHz	Pass	AV	4.92388G	31.57	54.00	-22.43	3	Vertical	170	2.99	-
2462MHz	Pass	PK	4.92508G	44.04	74.00	-29.96	3	Vertical	170	2.99	-
2462MHz	Pass	AV	4.92396G	30.55	54.00	-23.45	3	Horizontal	128	1.49	-
2462MHz	Pass	PK	4.91792G	44.01	74.00	-29.99	3	Horizontal	128	1.49	-

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2412MHz_TX

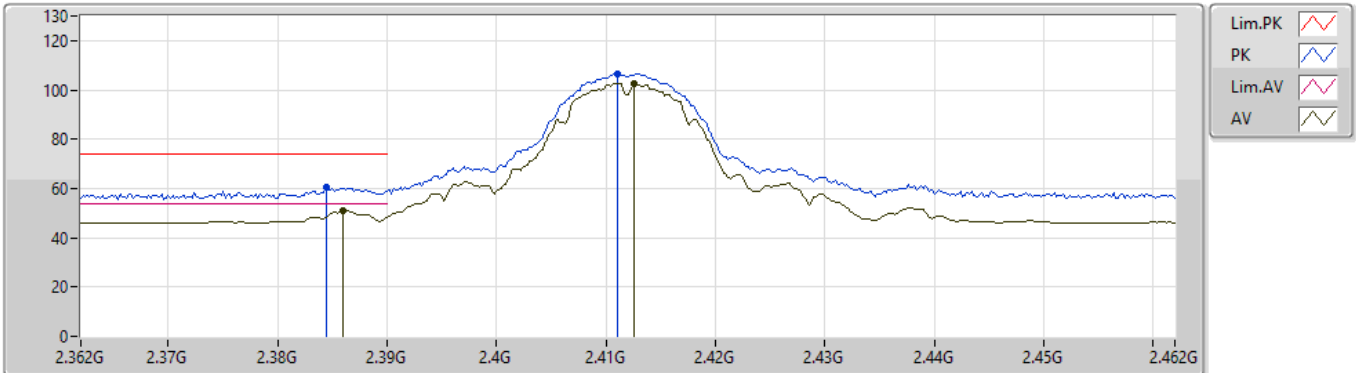


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.386G	46.88	54.00	-7.12	33.72	3	Vertical	340	1.50	-	13.16	27.77	5.95	-
AV	2.4126G	96.07	Inf	-Inf	33.75	3	Vertical	340	1.50	-	62.32	27.77	5.98	-
PK	2.3758G	58.26	74.00	-15.74	33.69	3	Vertical	340	1.50	-	24.57	27.75	5.94	-
PK	2.413G	100.18	Inf	-Inf	33.75	3	Vertical	340	1.50	-	66.43	27.77	5.98	-

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2412MHz_TX

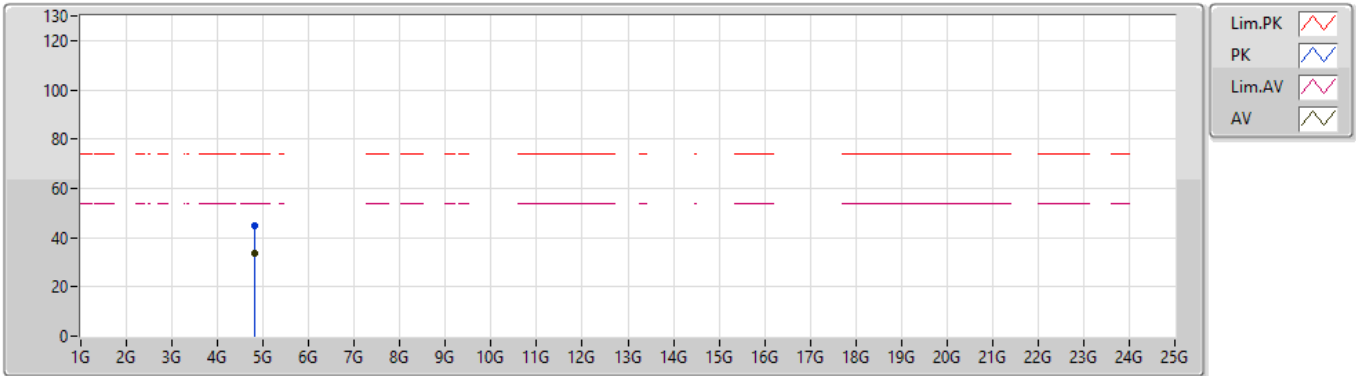


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.386G	51.11	54.00	-2.89	33.72	3	Horizontal	49	1.44	-	17.39	27.77	5.95	-
AV	2.4126G	102.59	Inf	-Inf	33.75	3	Horizontal	49	1.44	-	68.84	27.77	5.98	-
PK	2.3844G	60.31	74.00	-13.69	33.72	3	Horizontal	49	1.44	-	26.59	27.77	5.95	-
PK	2.411G	106.74	Inf	-Inf	33.75	3	Horizontal	49	1.44	-	72.99	27.78	5.97	-

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2412MHz_TX

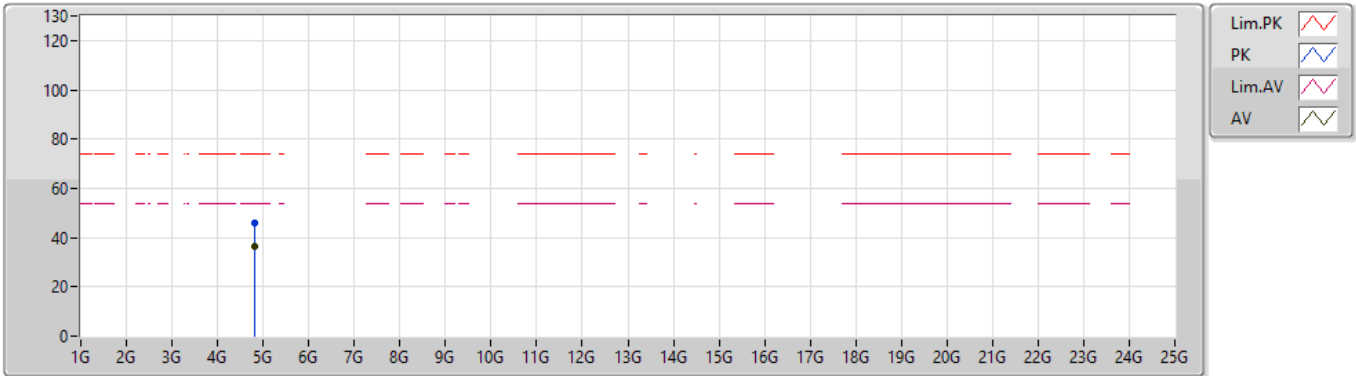


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82387G	33.58	54.00	-20.42	5.72	3	Vertical	15	1.18	-	27.86	31.35	8.27	33.90
PK	4.82374G	45.05	74.00	-28.95	5.72	3	Vertical	15	1.18	-	39.33	31.35	8.27	33.90

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2412MHz_TX

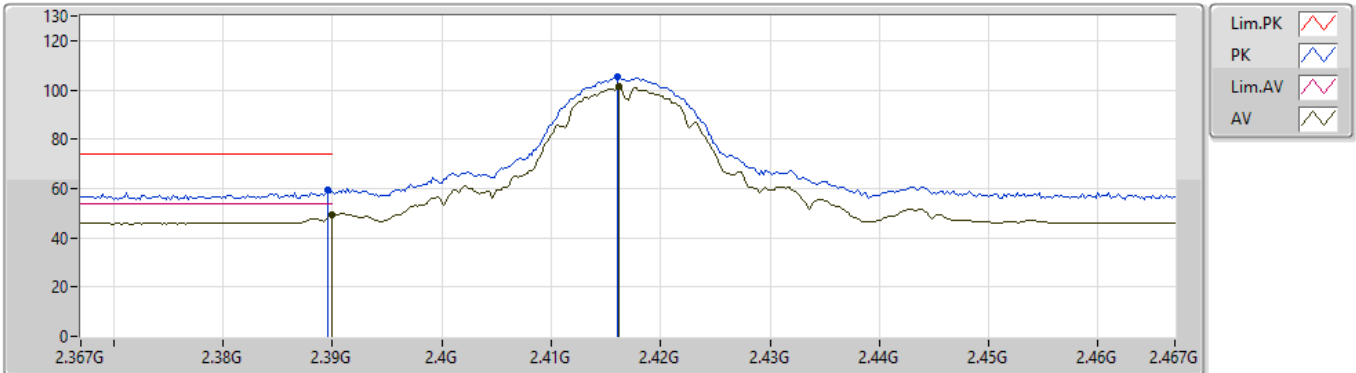


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82387G	36.48	54.00	-17.52	5.72	3	Horizontal	15	2.30	-	30.76	31.35	8.27	33.90
PK	4.82408G	46.08	74.00	-27.92	5.72	3	Horizontal	15	2.30	-	40.36	31.35	8.27	33.90

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2417MHz_TX

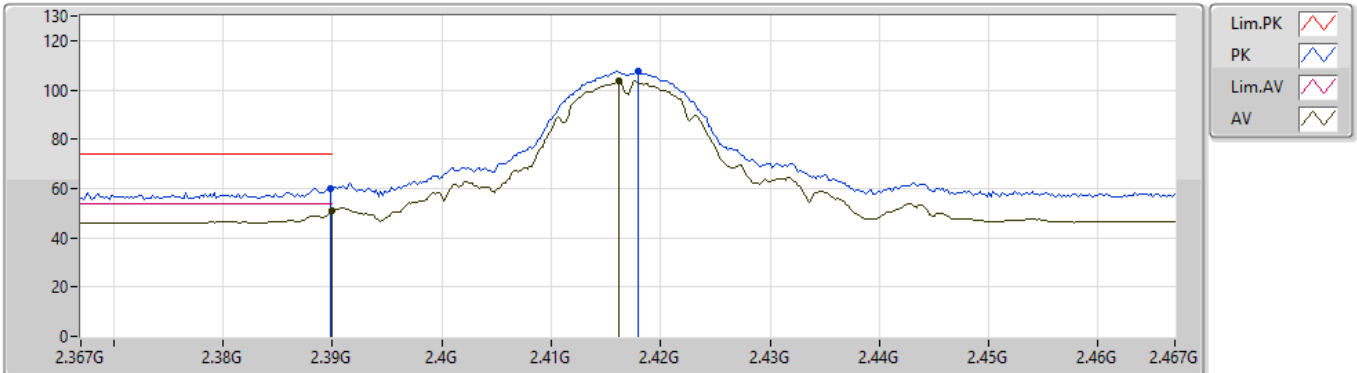


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	49.34	54.00	-4.66	33.73	3	Vertical	77	2.87	-	15.61	27.78	5.95	-
AV	2.4162G	101.32	Inf	-Inf	33.75	3	Vertical	77	2.87	-	67.57	27.77	5.98	-
PK	2.3896G	59.43	74.00	-14.57	33.73	3	Vertical	77	2.87	-	25.70	27.78	5.95	-
PK	2.416G	105.08	Inf	-Inf	33.75	3	Vertical	77	2.87	-	71.33	27.77	5.98	-

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2417MHz_TX

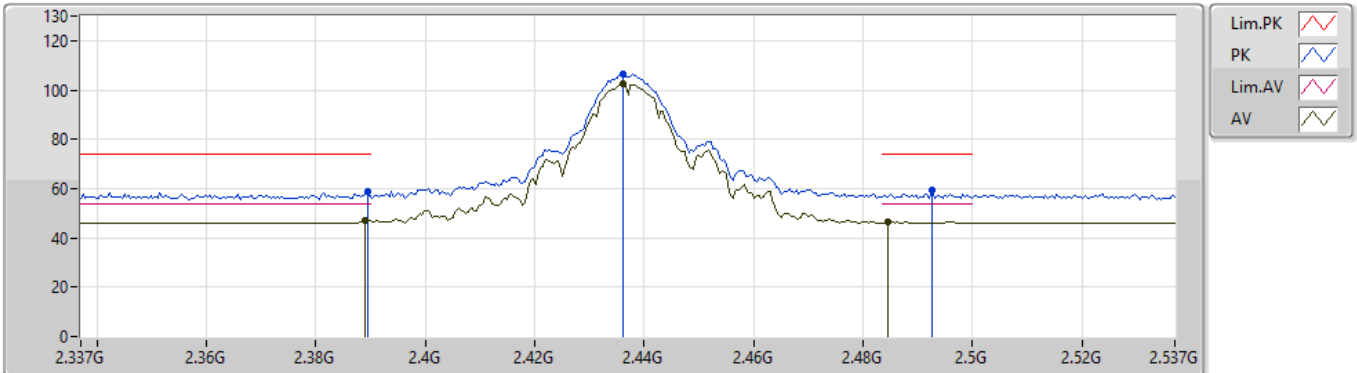


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.25	54.00	-2.75	33.73	3	Horizontal	51	1.15	-	17.52	27.78	5.95	-
AV	2.4162G	103.50	Inf	-Inf	33.75	3	Horizontal	51	1.15	-	69.75	27.77	5.98	-
PK	2.3898G	59.77	74.00	-14.23	33.73	3	Horizontal	51	1.15	-	26.04	27.78	5.95	-
PK	2.418G	107.44	Inf	-Inf	33.74	3	Horizontal	51	1.15	-	73.70	27.76	5.98	-

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2437MHz_TX

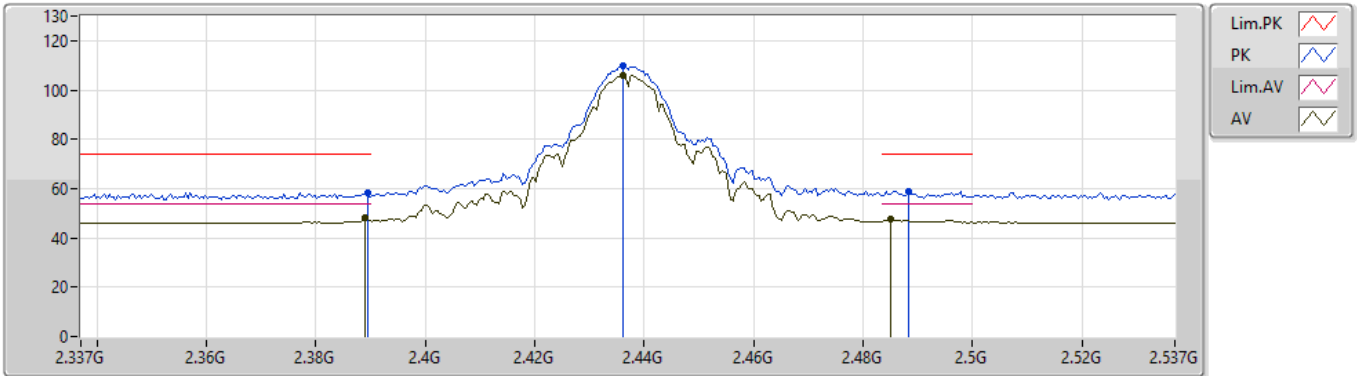


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.389G	47.24	54.00	-6.76	33.73	3	Vertical	175	1.46	-	13.51	27.78	5.95	-
AV	2.4362G	102.55	Inf	-Inf	33.73	3	Vertical	175	1.46	-	68.82	27.73	6.00	-
AV	2.4846G	46.49	54.00	-7.51	33.76	3	Vertical	175	1.46	-	12.73	27.70	6.06	-
PK	2.3894G	58.64	74.00	-15.36	33.73	3	Vertical	175	1.46	-	24.91	27.78	5.95	-
PK	2.4362G	106.58	Inf	-Inf	33.73	3	Vertical	175	1.46	-	72.85	27.73	6.00	-
PK	2.4926G	59.14	74.00	-14.86	33.77	3	Vertical	175	1.46	-	25.37	27.70	6.07	-

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2437MHz_TX

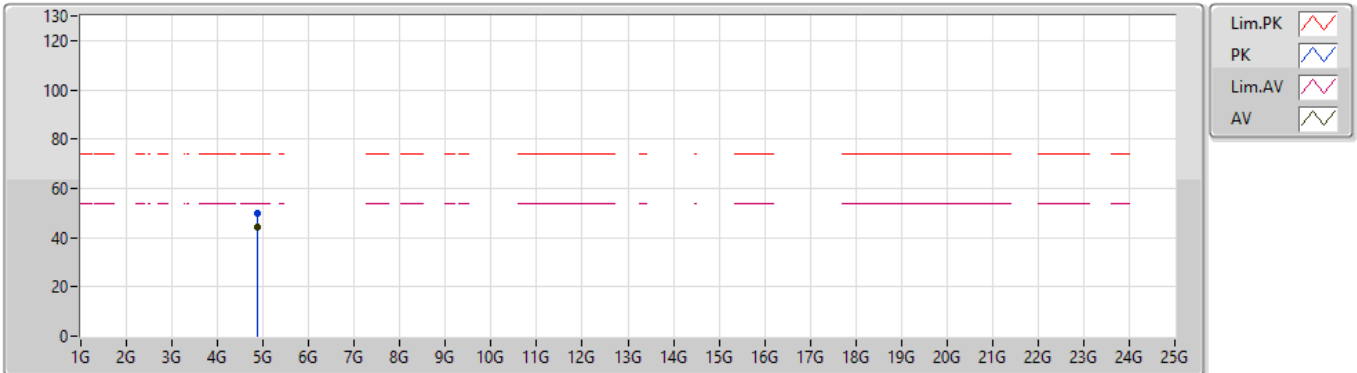


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.389G	47.95	54.00	-6.05	33.73	3	Horizontal	309	1.31	-	14.22	27.78	5.95	-
AV	2.4362G	105.89	Inf	-Inf	33.73	3	Horizontal	309	1.31	-	72.16	27.73	6.00	-
AV	2.485G	47.76	54.00	-6.24	33.76	3	Horizontal	309	1.31	-	14.00	27.70	6.06	-
PK	2.3894G	58.32	74.00	-15.68	33.73	3	Horizontal	309	1.31	-	24.59	27.78	5.95	-
PK	2.4362G	109.67	Inf	-Inf	33.73	3	Horizontal	309	1.31	-	75.94	27.73	6.00	-
PK	2.4882G	59.11	74.00	-14.89	33.77	3	Horizontal	309	1.31	-	25.34	27.70	6.07	-

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2437MHz_TX

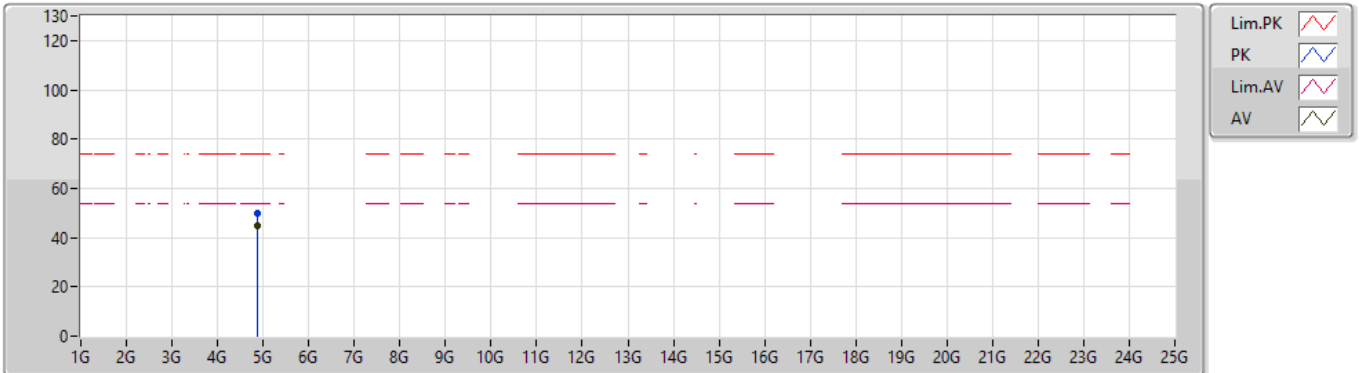


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87386G	44.17	54.00	-9.83	5.78	3	Vertical	297	1.20	-	38.39	31.35	8.30	33.87
PK	4.87394G	49.89	74.00	-24.11	5.78	3	Vertical	297	1.20	-	44.11	31.35	8.30	33.87

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2437MHz_TX

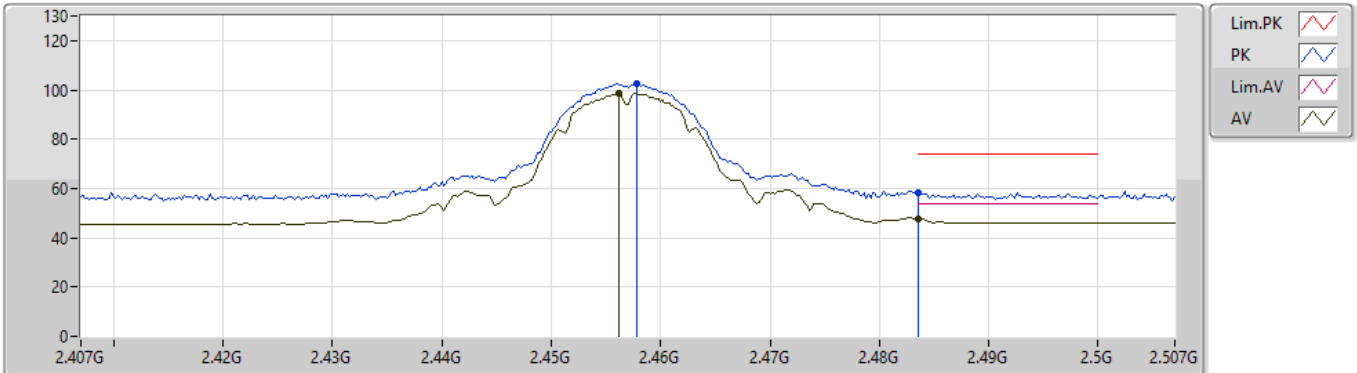


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87386G	44.82	54.00	-9.18	5.78	3	Horizontal	142	1.14	-	39.04	31.35	8.30	33.87
PK	4.87388G	49.92	74.00	-24.08	5.78	3	Horizontal	142	1.14	-	44.14	31.35	8.30	33.87

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2457MHz_TX

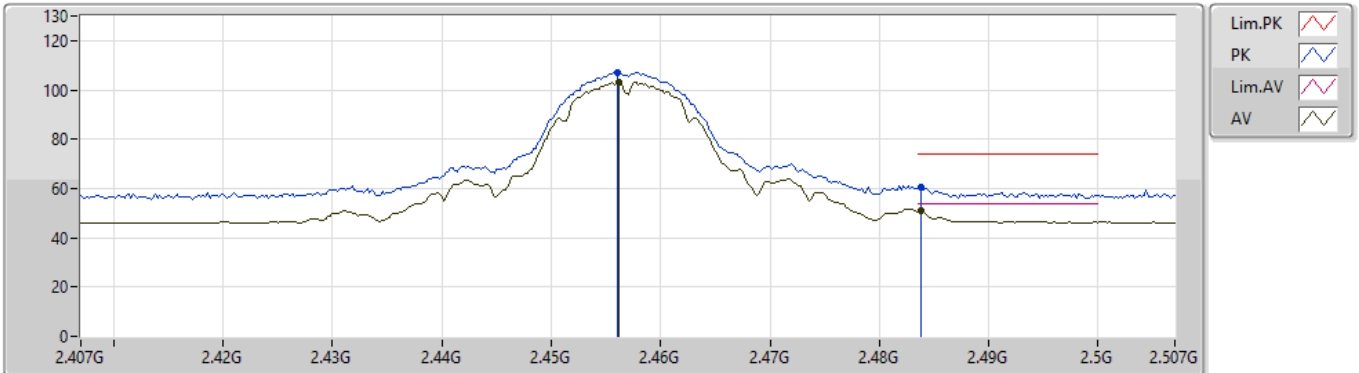


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4562G	98.70	Inf	-Inf	33.73	3	Vertical	343	1.00	-	64.97	27.70	6.03	-
AV	2.4836G	47.55	54.00	-6.45	33.76	3	Vertical	343	1.00	-	13.79	27.70	6.06	-
PK	2.4578G	102.68	Inf	-Inf	33.73	3	Vertical	343	1.00	-	68.95	27.70	6.03	-
PK	2.4835G	58.35	74.00	-15.65	33.76	3	Vertical	343	1.00	-	24.59	27.70	6.06	-

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2457MHz_TX

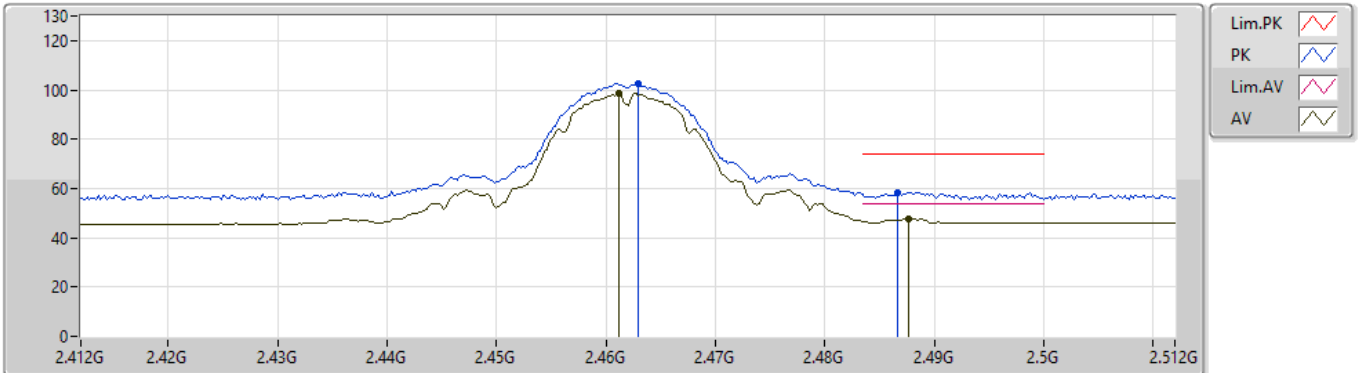


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4562G	103.37	Inf	-Inf	33.73	3	Horizontal	52	1.07	-	69.64	27.70	6.03	-
AV	2.4838G	50.82	54.00	-3.18	33.76	3	Horizontal	52	1.07	-	17.06	27.70	6.06	-
PK	2.456G	107.13	Inf	-Inf	33.73	3	Horizontal	52	1.07	-	73.40	27.70	6.03	-
PK	2.4838G	60.46	74.00	-13.54	33.76	3	Horizontal	52	1.07	-	26.70	27.70	6.06	-

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2462MHz_TX

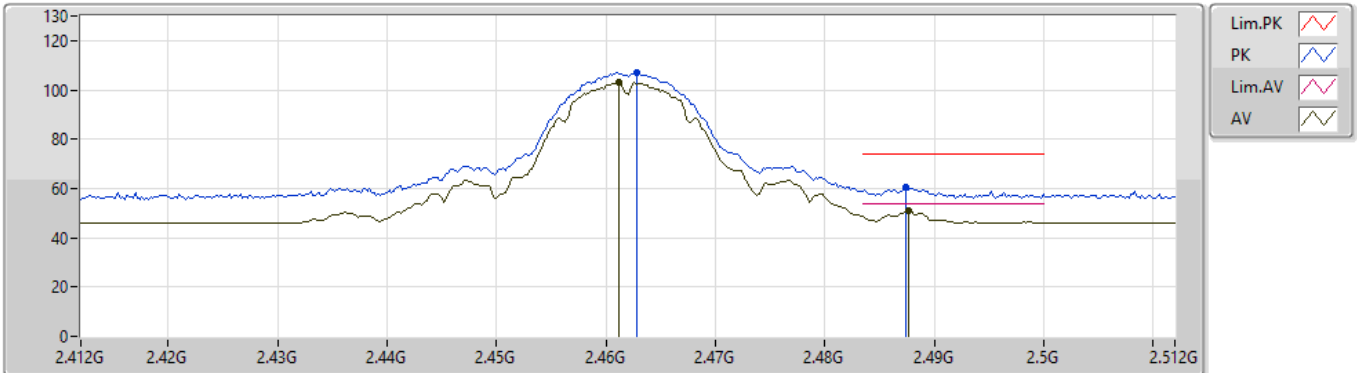


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4612G	98.66	Inf	-Inf	33.73	3	Vertical	344	1.00	-	64.93	27.70	6.03	-
AV	2.4876G	47.82	54.00	-6.18	33.77	3	Vertical	344	1.00	-	14.05	27.70	6.07	-
PK	2.463G	102.48	Inf	-Inf	33.74	3	Vertical	344	1.00	-	68.74	27.70	6.04	-
PK	2.4866G	58.30	74.00	-15.70	33.76	3	Vertical	344	1.00	-	24.54	27.70	6.06	-

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2462MHz_TX

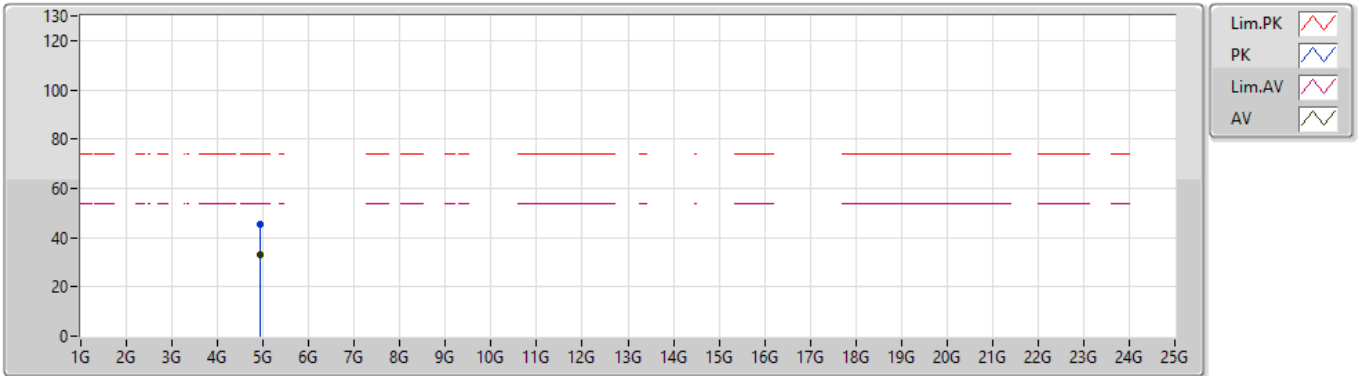


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4612G	103.08	Inf	-Inf	33.73	3	Horizontal	54	1.61	-	69.35	27.70	6.03	-
AV	2.4876G	50.75	54.00	-3.25	33.77	3	Horizontal	54	1.61	-	16.98	27.70	6.07	-
PK	2.4628G	107.02	Inf	-Inf	33.74	3	Horizontal	54	1.61	-	73.28	27.70	6.04	-
PK	2.4874G	60.28	74.00	-13.72	33.76	3	Horizontal	54	1.61	-	26.52	27.70	6.06	-

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2462MHz_TX

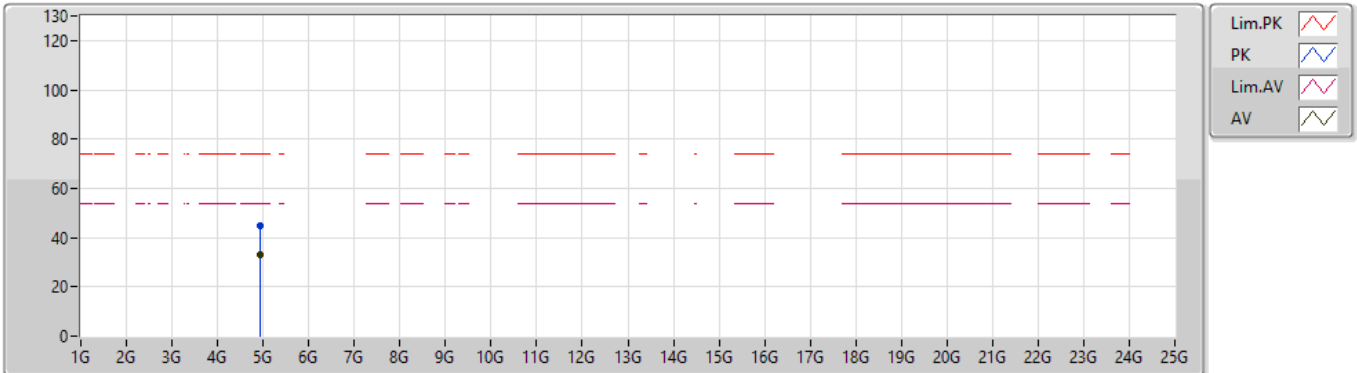


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92383G	33.12	54.00	-20.88	5.84	3	Vertical	248	1.79	-	27.28	31.35	8.33	33.84
PK	4.92389G	45.16	74.00	-28.84	5.84	3	Vertical	248	1.79	-	39.32	31.35	8.33	33.84

802.11b_Nss1,(1Mbps)_1TX

01/06/2020

2462MHz_TX

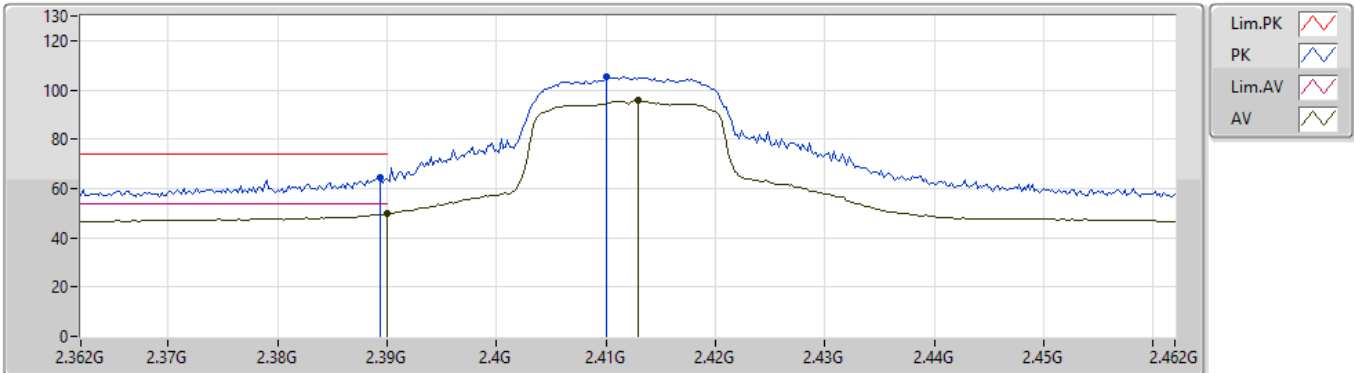


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92386G	33.09	54.00	-20.91	5.84	3	Horizontal	2	1.14	-	27.25	31.35	8.33	33.84
PK	4.92386G	45.02	74.00	-28.98	5.84	3	Horizontal	2	1.14	-	39.18	31.35	8.33	33.84

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2412MHz_TX

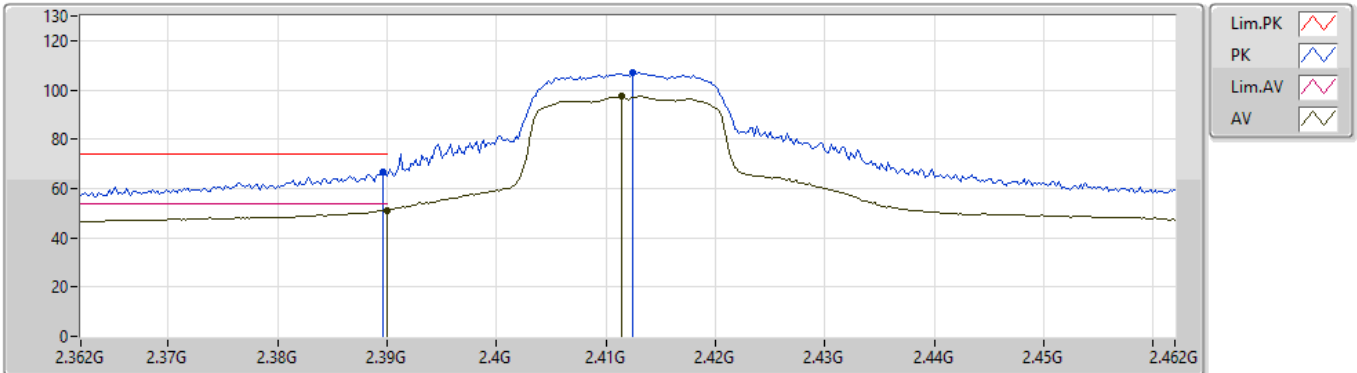


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	49.74	54.00	-4.26	33.73	3	Vertical	106	2.93	-	16.01	27.78	5.95	-
AV	2.413G	95.69	Inf	-Inf	33.75	3	Vertical	106	2.93	-	61.94	27.77	5.98	-
PK	2.3894G	64.28	74.00	-9.72	33.73	3	Vertical	106	2.93	-	30.55	27.78	5.95	-
PK	2.41G	105.30	Inf	-Inf	33.75	3	Vertical	106	2.93	-	71.55	27.78	5.97	-

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2412MHz_TX

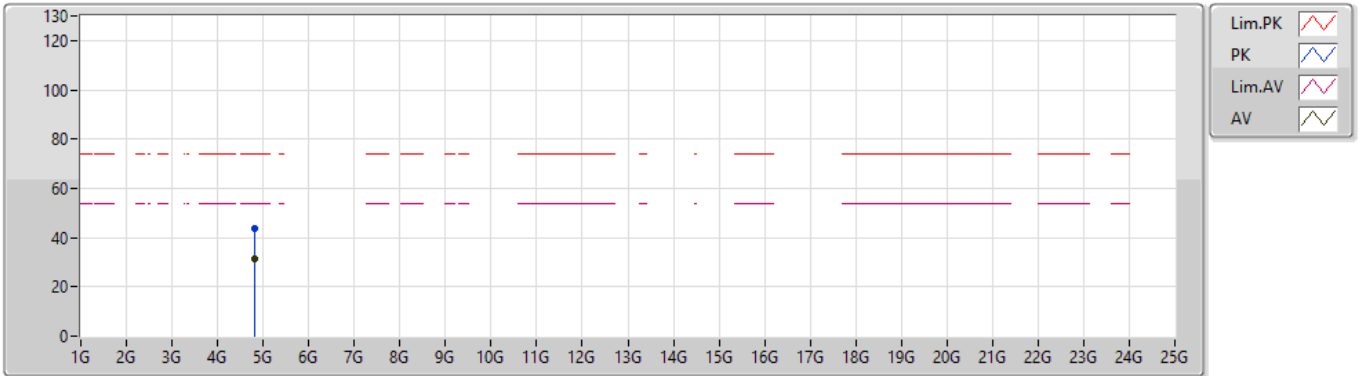


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.08	54.00	-2.92	33.73	3	Horizontal	58	2.57	-	17.35	27.78	5.95	-
AV	2.4114G	97.46	Inf	-Inf	33.75	3	Horizontal	58	2.57	-	63.71	27.78	5.97	-
PK	2.3896G	66.75	74.00	-7.25	33.73	3	Horizontal	58	2.57	-	33.02	27.78	5.95	-
PK	2.4124G	107.09	Inf	-Inf	33.75	3	Horizontal	58	2.57	-	73.34	27.78	5.97	-

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2412MHz_TX

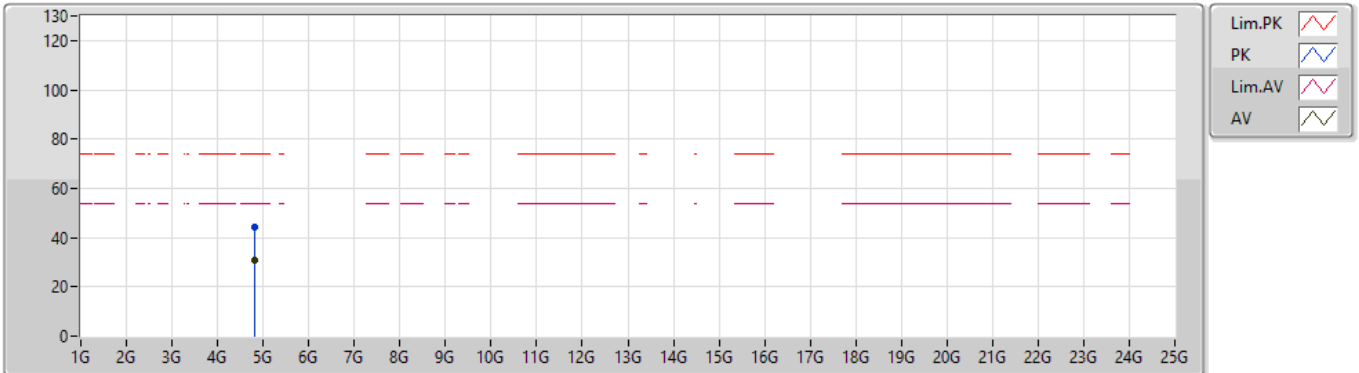


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82384G	31.48	54.00	-22.52	5.72	3	Vertical	24	2.44	-	25.76	31.35	8.27	33.90
PK	4.81832G	43.86	74.00	-30.14	5.69	3	Vertical	24	2.44	-	38.17	31.34	8.26	33.91

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2412MHz_TX

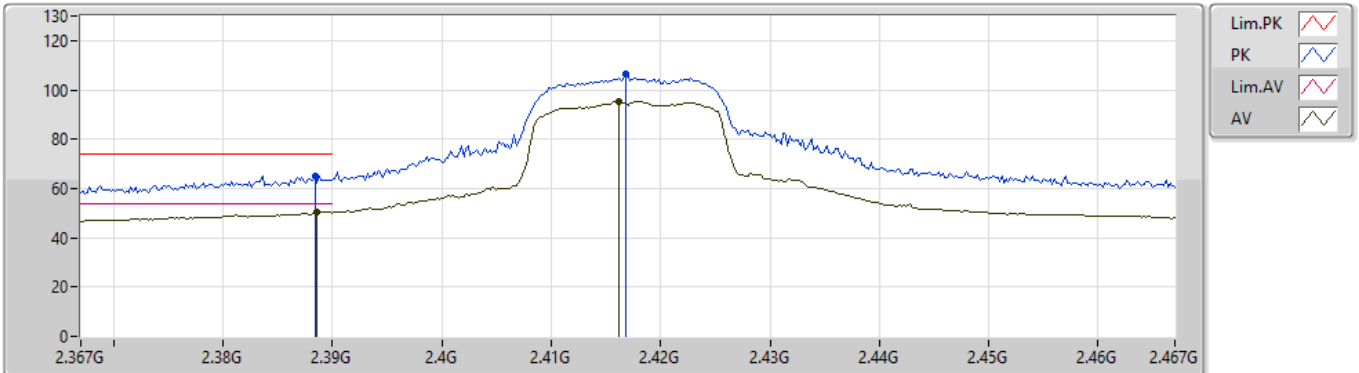


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82384G	30.55	54.00	-23.45	5.72	3	Horizontal	31	1.49	-	24.83	31.35	8.27	33.90
PK	4.8174G	44.11	74.00	-29.89	5.68	3	Horizontal	31	1.49	-	38.43	31.33	8.26	33.91

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2417MHz_TX

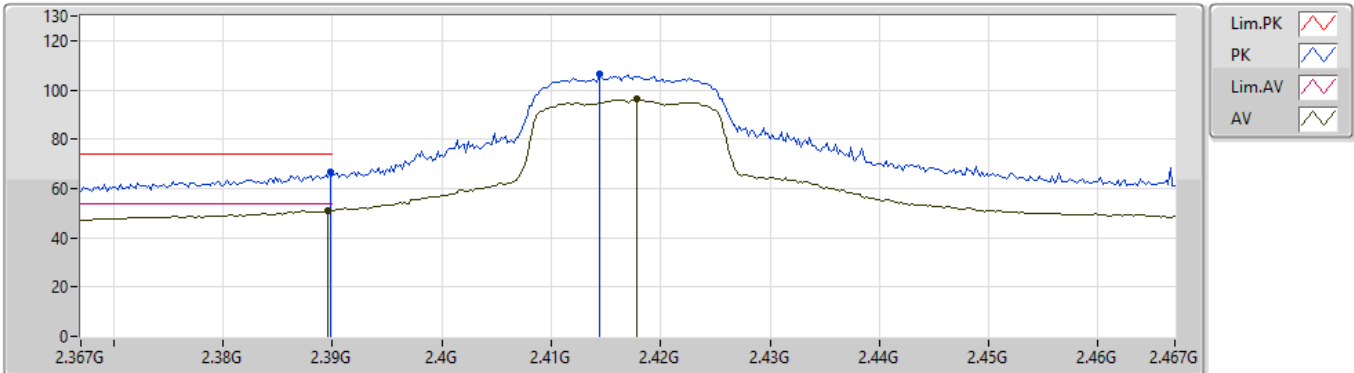


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3886G	50.44	54.00	-3.56	33.73	3	Vertical	104	2.88	-	16.71	27.78	5.95	-
AV	2.4162G	95.26	Inf	-Inf	33.75	3	Vertical	104	2.88	-	61.51	27.77	5.98	-
PK	2.3884G	64.89	74.00	-9.11	33.73	3	Vertical	104	2.88	-	31.16	27.78	5.95	-
PK	2.4168G	106.66	Inf	-Inf	33.75	3	Vertical	104	2.88	-	72.91	27.77	5.98	-

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2417MHz_TX

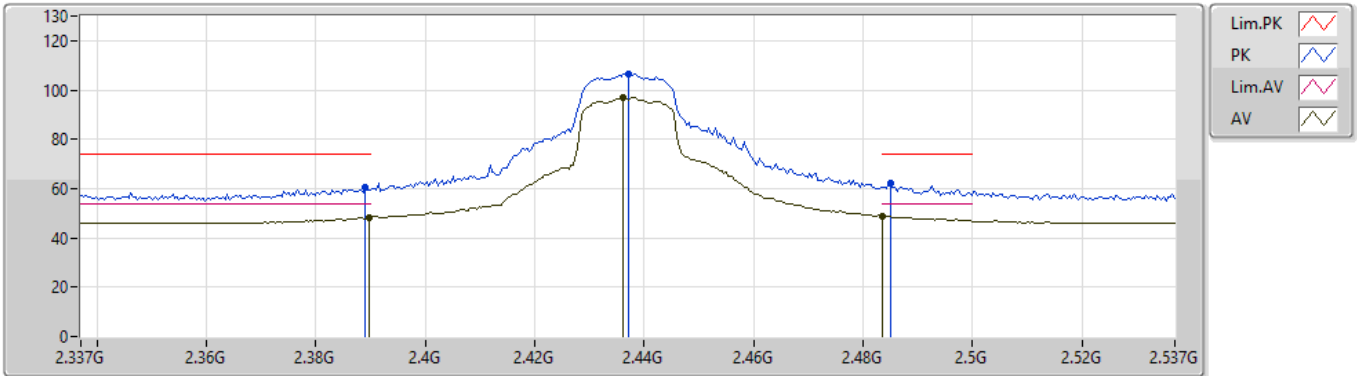


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3896G	51.06	54.00	-2.94	33.73	3	Horizontal	45	1.46	-	17.33	27.78	5.95	-
AV	2.4178G	96.16	Inf	-Inf	33.74	3	Horizontal	45	1.46	-	62.42	27.76	5.98	-
PK	2.3898G	66.75	74.00	-7.25	33.73	3	Horizontal	45	1.46	-	33.02	27.78	5.95	-
PK	2.4144G	106.29	Inf	-Inf	33.75	3	Horizontal	45	1.46	-	72.54	27.77	5.98	-

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2437MHz_TX

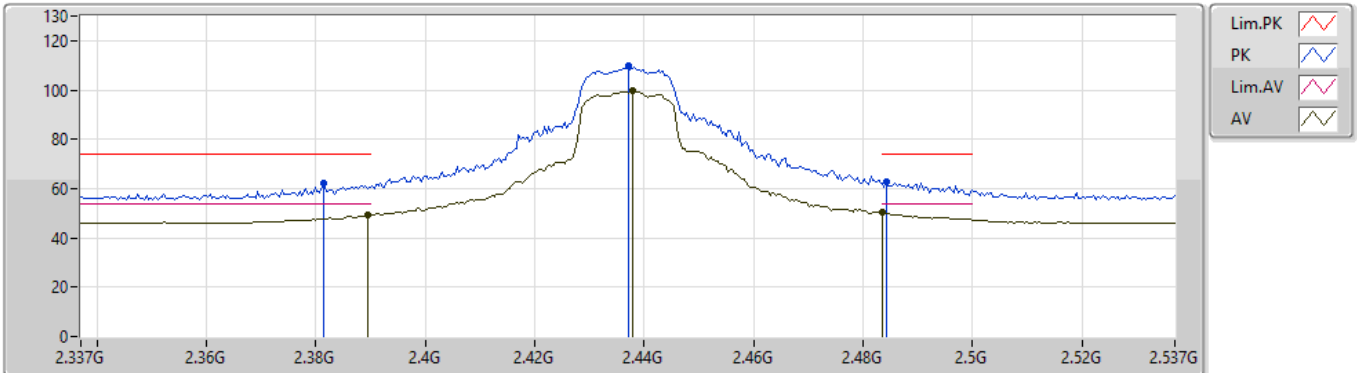


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	48.35	54.00	-5.65	33.73	3	Vertical	108	2.54	-	14.62	27.78	5.95	-
AV	2.4362G	97.09	Inf	-Inf	33.73	3	Vertical	108	2.54	-	63.36	27.73	6.00	-
AV	2.4835G	49.01	54.00	-4.99	33.76	3	Vertical	108	2.54	-	15.25	27.70	6.06	-
PK	2.389G	60.37	74.00	-13.63	33.73	3	Vertical	108	2.54	-	26.64	27.78	5.95	-
PK	2.437G	106.48	Inf	-Inf	33.73	3	Vertical	108	2.54	-	72.75	27.73	6.00	-
PK	2.485G	62.09	74.00	-11.91	33.76	3	Vertical	108	2.54	-	28.33	27.70	6.06	-

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2437MHz_TX

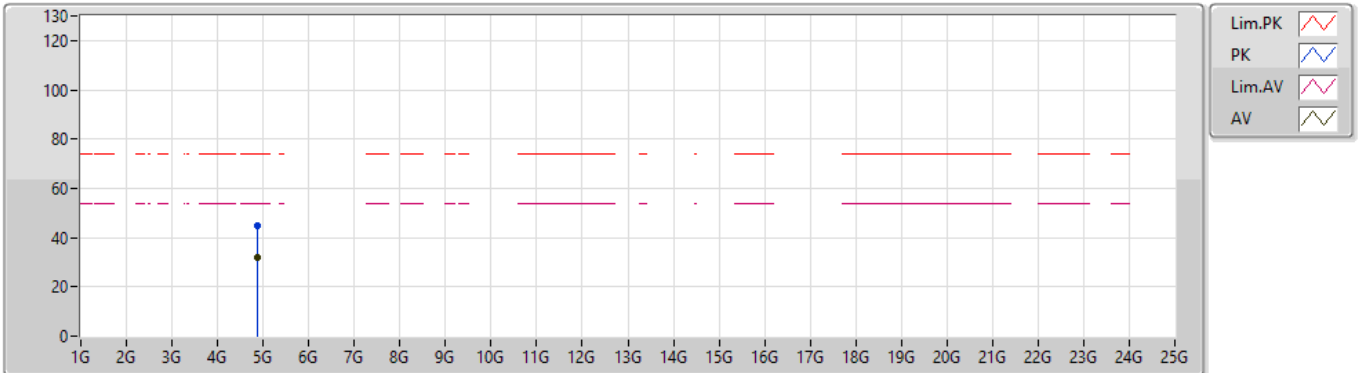


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	49.05	54.00	-4.95	33.73	3	Horizontal	58	2.06	-	15.32	27.78	5.95	-
AV	2.4378G	99.77	Inf	-Inf	33.73	3	Horizontal	58	2.06	-	66.04	27.72	6.01	-
AV	2.4835G	50.26	54.00	-3.74	33.76	3	Horizontal	58	2.06	-	16.50	27.70	6.06	-
PK	2.3814G	62.32	74.00	-11.68	33.71	3	Horizontal	58	2.06	-	28.61	27.76	5.95	-
PK	2.437G	109.58	Inf	-Inf	33.73	3	Horizontal	58	2.06	-	75.85	27.73	6.00	-
PK	2.4842G	62.75	74.00	-11.25	33.76	3	Horizontal	58	2.06	-	28.99	27.70	6.06	-

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2437MHz_TX

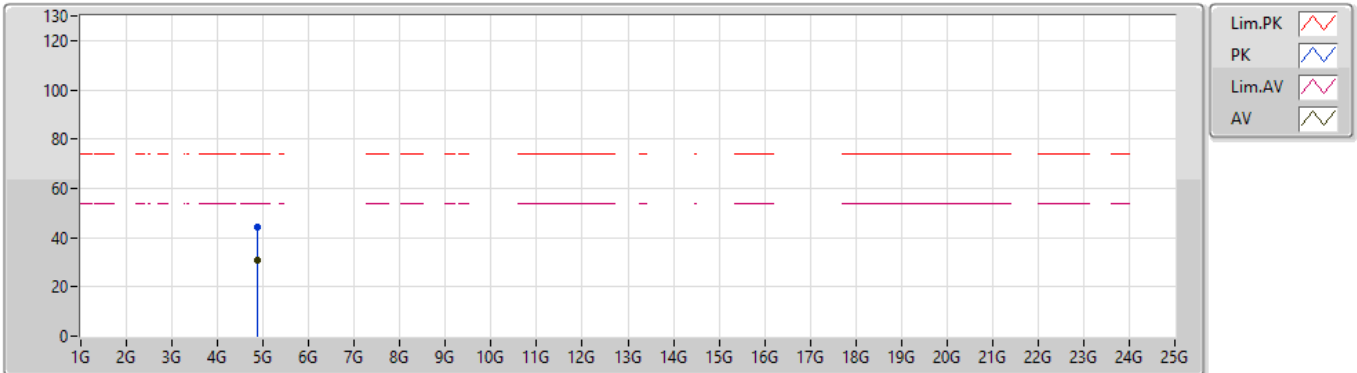


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8738G	31.79	54.00	-22.21	5.78	3	Vertical	26	1.97	-	26.01	31.35	8.30	33.87
PK	4.8754G	44.59	74.00	-29.41	5.78	3	Vertical	26	1.97	-	38.81	31.35	8.30	33.87

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2437MHz_TX

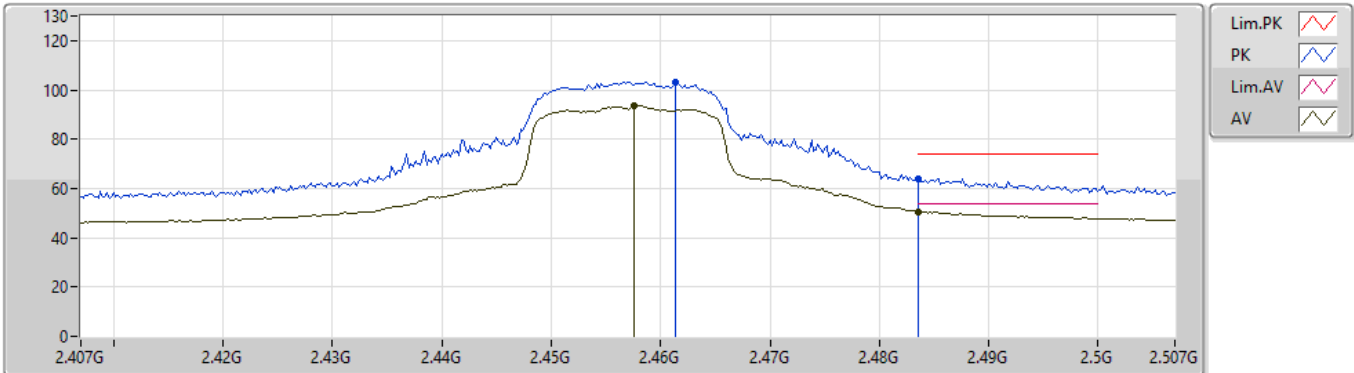


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87476G	30.71	54.00	-23.29	5.78	3	Horizontal	232	1.49	-	24.93	31.35	8.30	33.87
PK	4.87608G	44.23	74.00	-29.77	5.78	3	Horizontal	232	1.49	-	38.45	31.35	8.30	33.87

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2457MHz_TX

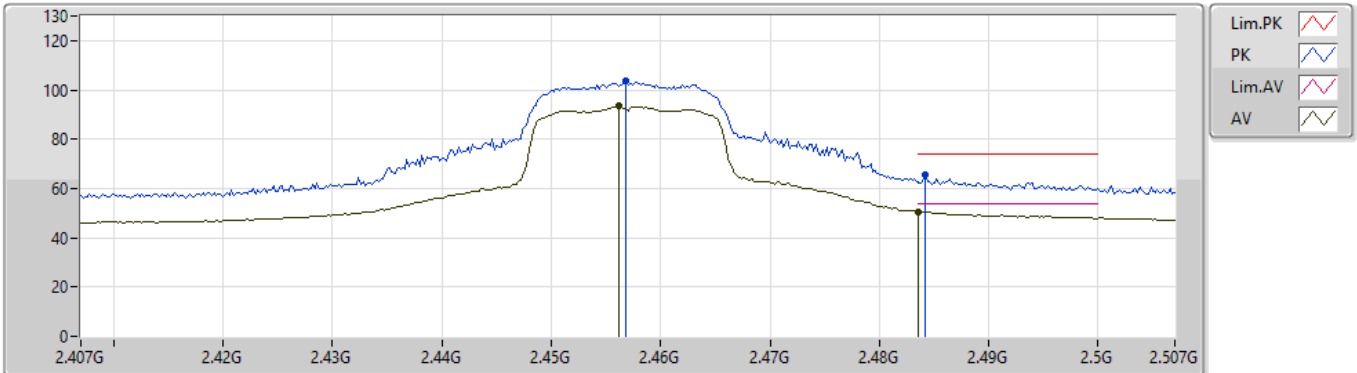


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4576G	93.52	Inf	-Inf	33.73	3	Vertical	342	1.00	-	59.79	27.70	6.03	-
AV	2.4835G	50.51	54.00	-3.49	33.76	3	Vertical	342	1.00	-	16.75	27.70	6.06	-
PK	2.4614G	103.16	Inf	-Inf	33.73	3	Vertical	342	1.00	-	69.43	27.70	6.03	-
PK	2.4836G	64.13	74.00	-9.87	33.76	3	Vertical	342	1.00	-	30.37	27.70	6.06	-

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

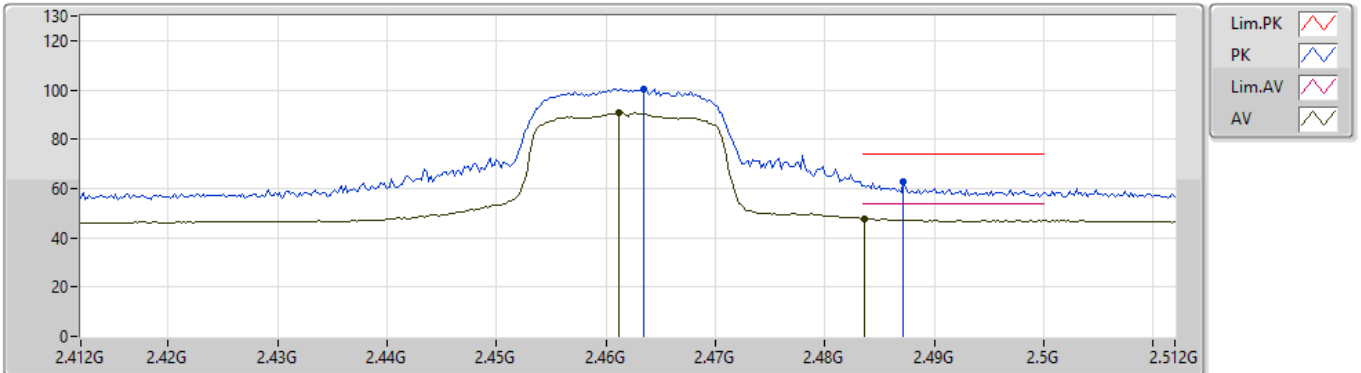
2457MHz_TX



802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2462MHz_TX

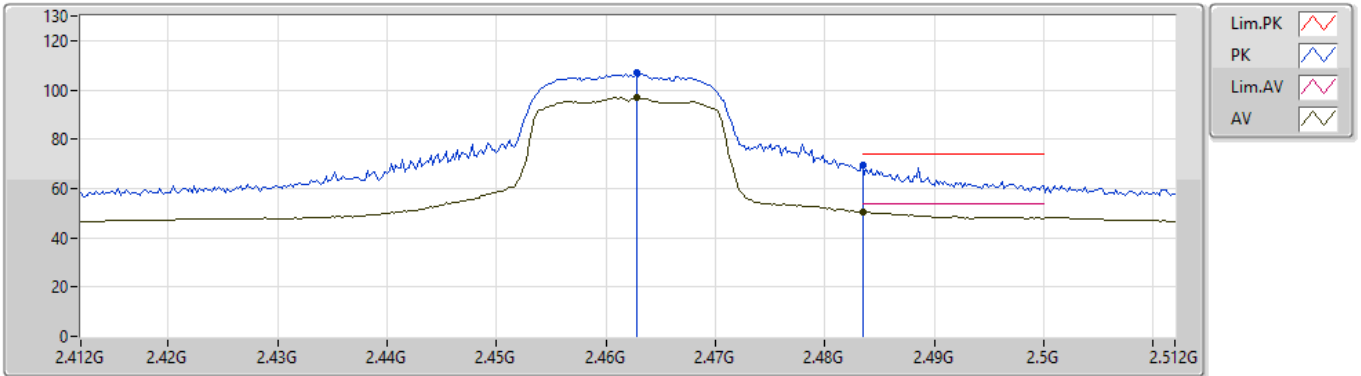


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4612G	90.81	Inf	-Inf	33.73	3	Vertical	332	1.35	-	57.08	27.70	6.03	-
AV	2.4836G	47.88	54.00	-6.12	33.76	3	Vertical	332	1.35	-	14.12	27.70	6.06	-
PK	2.4634G	100.55	Inf	-Inf	33.74	3	Vertical	332	1.35	-	66.81	27.70	6.04	-
PK	2.4872G	62.67	74.00	-11.33	33.76	3	Vertical	332	1.35	-	28.91	27.70	6.06	-

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2462MHz_TX

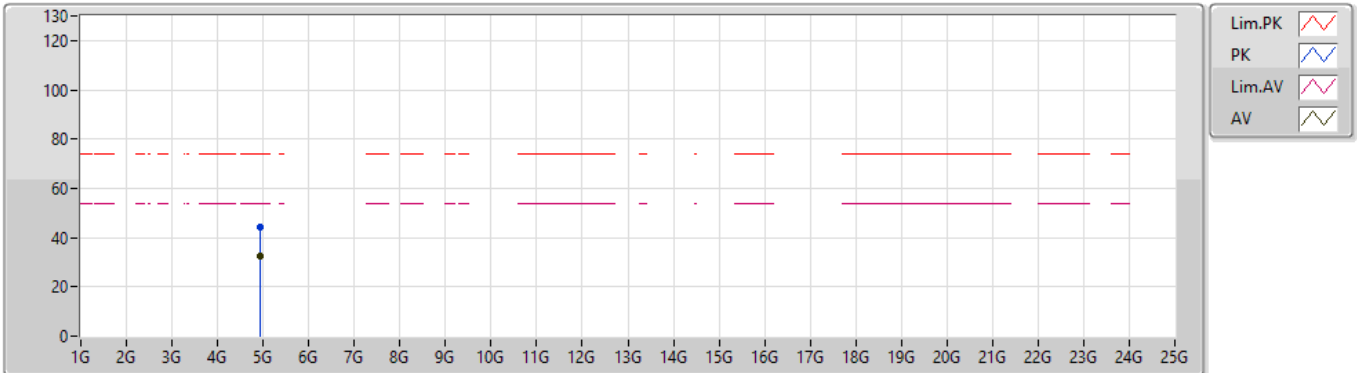


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4628G	96.88	Inf	-Inf	33.74	3	Horizontal	65	2.49	-	63.14	27.70	6.04	-
AV	2.4835G	50.50	54.00	-3.50	33.76	3	Horizontal	65	2.49	-	16.74	27.70	6.06	-
PK	2.4628G	107.02	Inf	-Inf	33.74	3	Horizontal	65	2.49	-	73.28	27.70	6.04	-
PK	2.4835G	69.21	74.00	-4.79	33.76	3	Horizontal	65	2.49	-	35.45	27.70	6.06	-

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2462MHz_TX

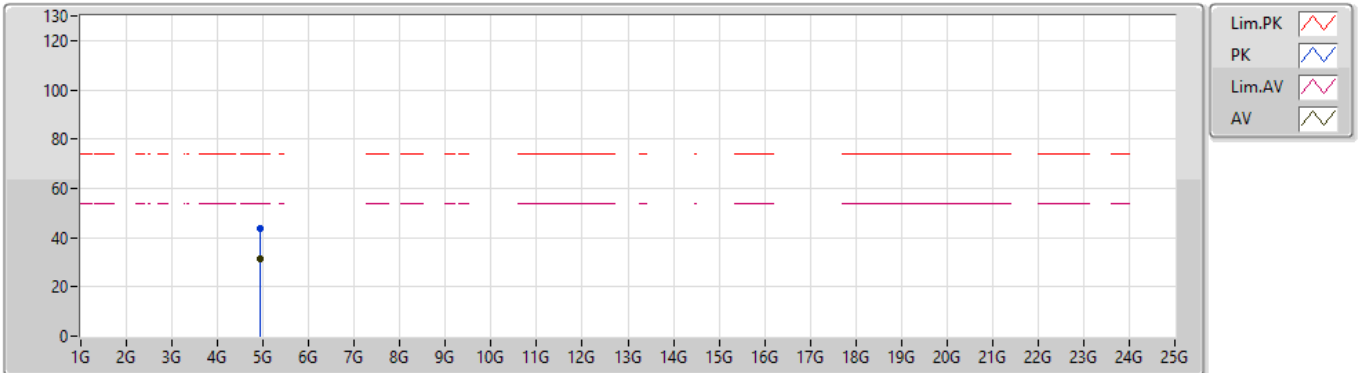


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92384G	32.37	54.00	-21.63	5.84	3	Vertical	170	2.95	-	26.53	31.35	8.33	33.84
PK	4.92396G	44.31	74.00	-29.69	5.84	3	Vertical	170	2.95	-	38.47	31.35	8.33	33.84

802.11g_Nss1,(6Mbps)_1TX

01/06/2020

2462MHz_TX

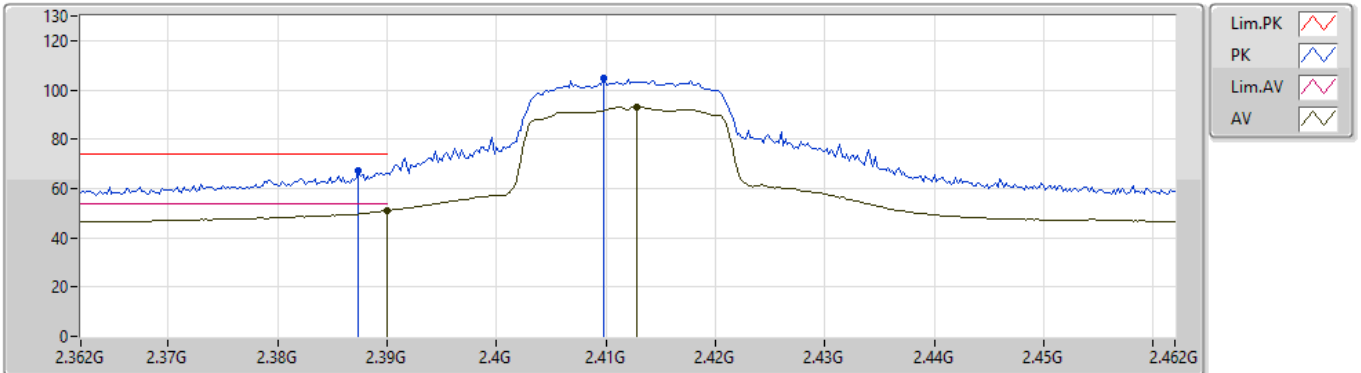


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92404G	31.45	54.00	-22.55	5.84	3	Horizontal	105	1.04	-	25.61	31.35	8.33	33.84
PK	4.92448G	43.67	74.00	-30.33	5.84	3	Horizontal	105	1.04	-	37.83	31.35	8.33	33.84

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2412MHz_TX

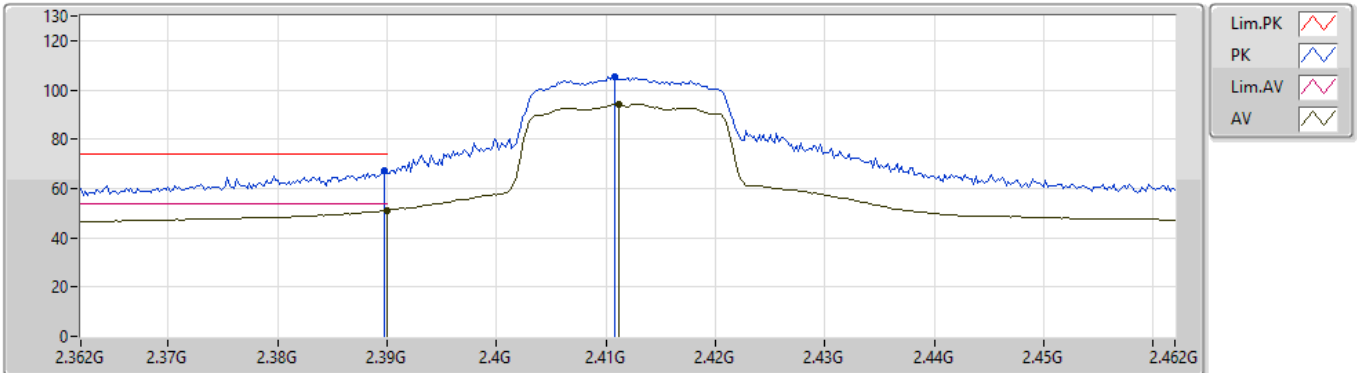


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	50.91	54.00	-3.09	33.73	3	Vertical	103	2.91	-	17.18	27.78	5.95	-
AV	2.4128G	93.08	Inf	-Inf	33.75	3	Vertical	103	2.91	-	59.33	27.77	5.98	-
PK	2.3874G	67.47	74.00	-6.53	33.72	3	Vertical	103	2.91	-	33.75	27.77	5.95	-
PK	2.4098G	104.84	Inf	-Inf	33.75	3	Vertical	103	2.91	-	71.09	27.78	5.97	-

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2412MHz_TX

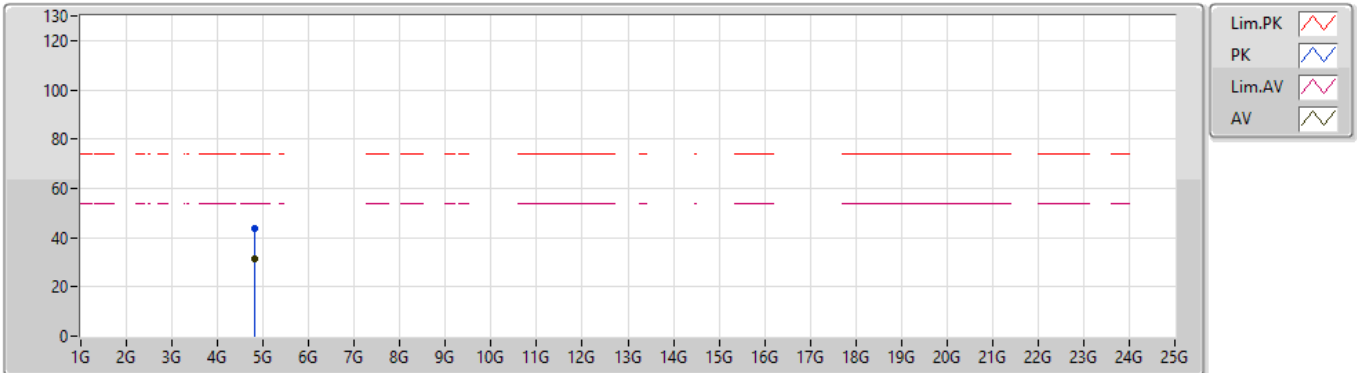


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.21	54.00	-2.79	33.73	3	Horizontal	44	1.45	-	17.48	27.78	5.95	-
AV	2.4112G	94.15	Inf	-Inf	33.75	3	Horizontal	44	1.45	-	60.40	27.78	5.97	-
PK	2.3898G	67.12	74.00	-6.88	33.73	3	Horizontal	44	1.45	-	33.39	27.78	5.95	-
PK	2.4108G	105.54	Inf	-Inf	33.75	3	Horizontal	44	1.45	-	71.79	27.78	5.97	-

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2412MHz_TX

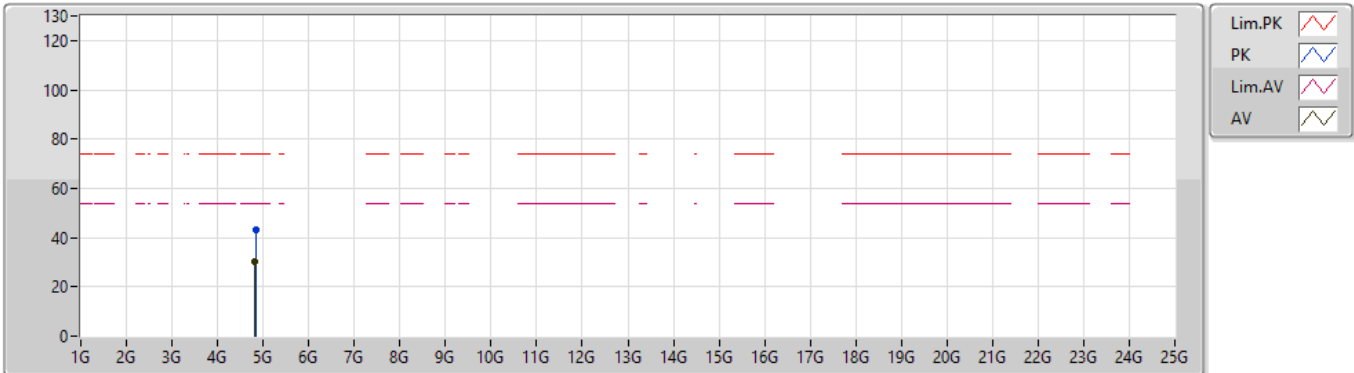


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82384G	31.23	54.00	-22.77	5.72	3	Vertical	25	2.22	-	25.51	31.35	8.27	33.90
PK	4.8236G	43.88	74.00	-30.12	5.72	3	Vertical	25	2.22	-	38.16	31.35	8.27	33.90

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2412MHz_TX

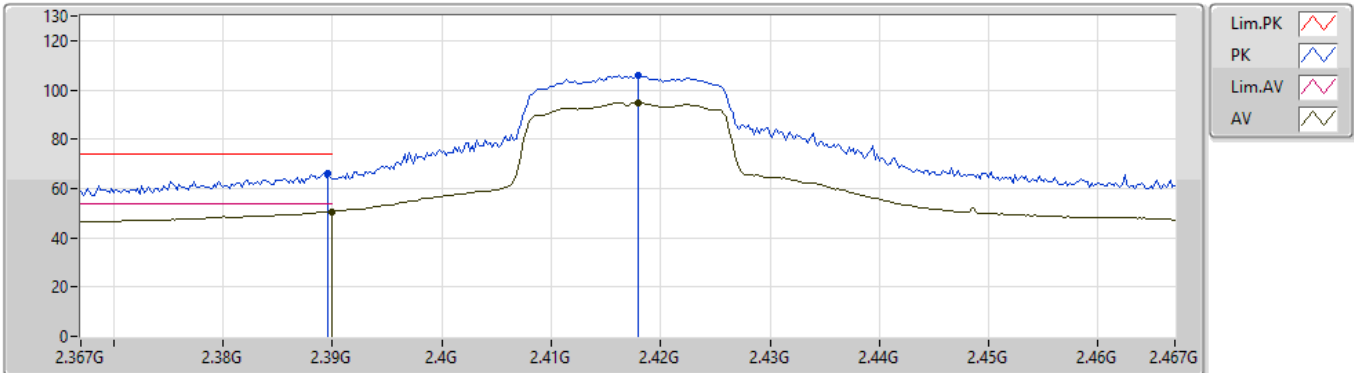


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8238G	30.49	54.00	-23.51	5.72	3	Horizontal	109	1.00	-	24.77	31.35	8.27	33.90
PK	4.82932G	43.41	74.00	-30.59	5.73	3	Horizontal	109	1.00	-	37.68	31.36	8.27	33.90

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2417MHz_TX

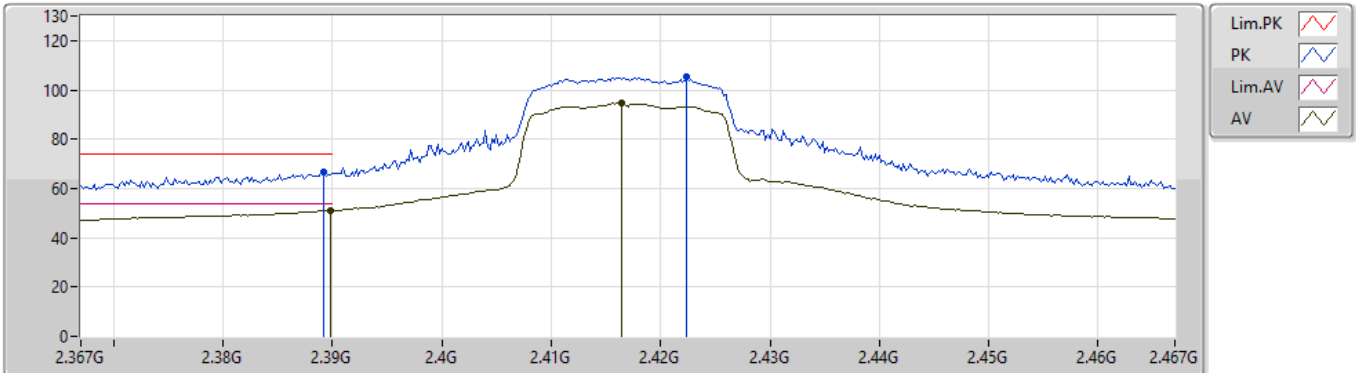


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	50.71	54.00	-3.29	33.73	3	Vertical	103	2.90	-	16.98	27.78	5.95	-
AV	2.418G	94.83	Inf	-Inf	33.74	3	Vertical	103	2.90	-	61.09	27.76	5.98	-
PK	2.3896G	65.98	74.00	-8.02	33.73	3	Vertical	103	2.90	-	32.25	27.78	5.95	-
PK	2.418G	105.96	Inf	-Inf	33.74	3	Vertical	103	2.90	-	72.22	27.76	5.98	-

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2417MHz_TX

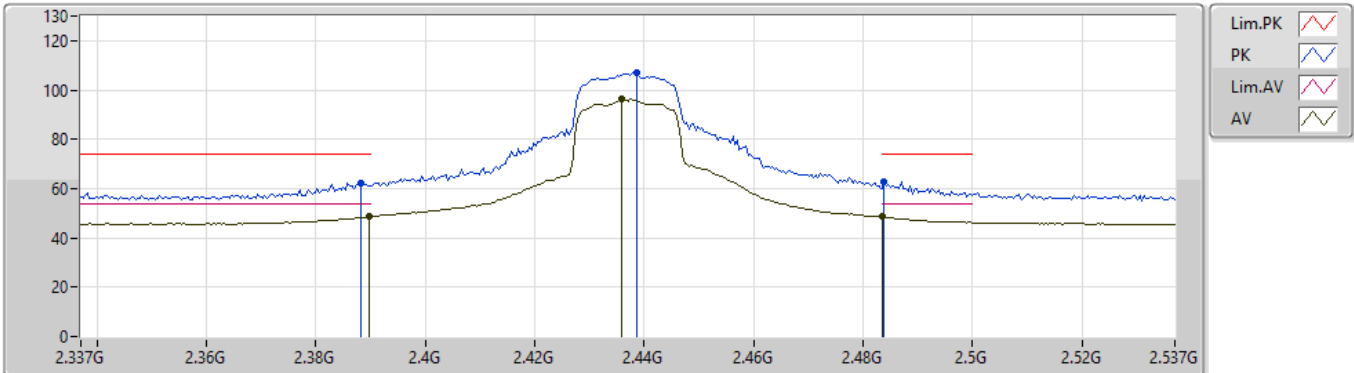


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	51.08	54.00	-2.92	33.73	3	Horizontal	52	1.49	-	17.35	27.78	5.95	-
AV	2.4164G	94.59	Inf	-Inf	33.75	3	Horizontal	52	1.49	-	60.84	27.77	5.98	-
PK	2.3892G	66.44	74.00	-7.56	33.73	3	Horizontal	52	1.49	-	32.71	27.78	5.95	-
PK	2.4224G	105.57	Inf	-Inf	33.75	3	Horizontal	52	1.49	-	71.82	27.76	5.99	-

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2437MHz_TX

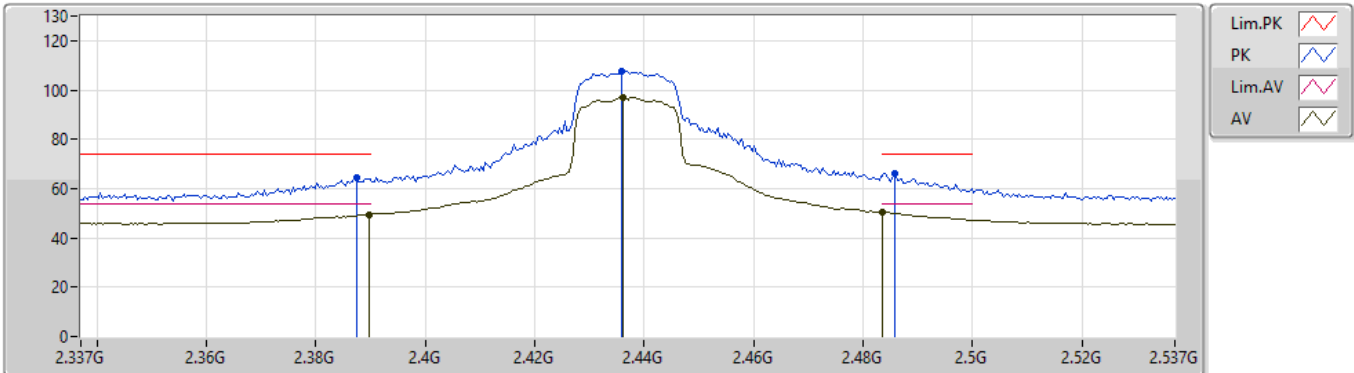


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	48.59	54.00	-5.41	33.73	3	Vertical	100	2.60	-	14.86	27.78	5.95	-
AV	2.4358G	96.11	Inf	-Inf	33.73	3	Vertical	100	2.60	-	62.38	27.73	6.00	-
AV	2.4835G	48.47	54.00	-5.53	33.76	3	Vertical	100	2.60	-	14.71	27.70	6.06	-
PK	2.3882G	62.10	74.00	-11.90	33.73	3	Vertical	100	2.60	-	28.37	27.78	5.95	-
PK	2.4386G	106.98	Inf	-Inf	33.73	3	Vertical	100	2.60	-	73.25	27.72	6.01	-
PK	2.4838G	62.88	74.00	-11.12	33.76	3	Vertical	100	2.60	-	29.12	27.70	6.06	-

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2437MHz_TX

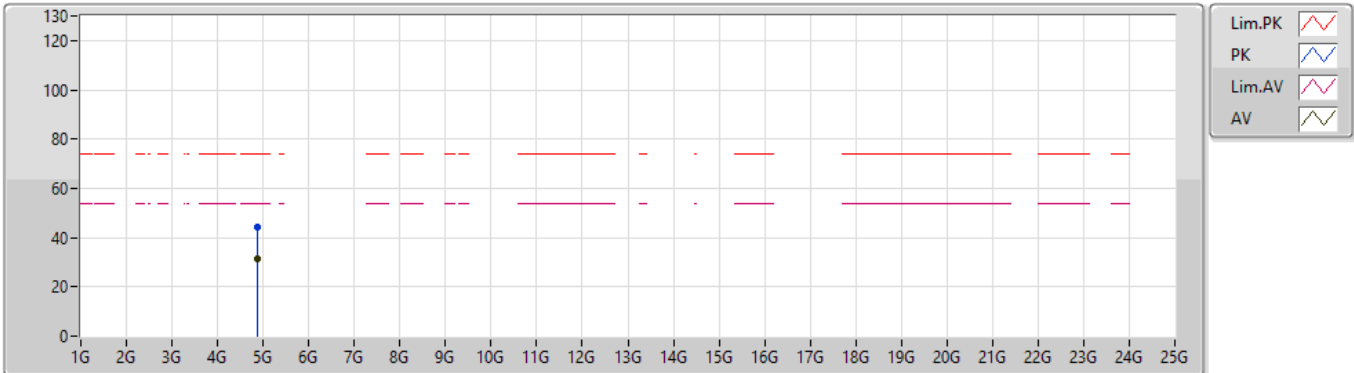


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	49.45	54.00	-4.55	33.73	3	Horizontal	38	1.05	-	15.72	27.78	5.95	-
AV	2.4362G	97.07	Inf	-Inf	33.73	3	Horizontal	38	1.05	-	63.34	27.73	6.00	-
AV	2.4835G	50.47	54.00	-3.53	33.76	3	Horizontal	38	1.05	-	16.71	27.70	6.06	-
PK	2.3874G	64.50	74.00	-9.50	33.72	3	Horizontal	38	1.05	-	30.78	27.77	5.95	-
PK	2.4358G	107.39	Inf	-Inf	33.73	3	Horizontal	38	1.05	-	73.66	27.73	6.00	-
PK	2.4858G	66.07	74.00	-7.93	33.76	3	Horizontal	38	1.05	-	32.31	27.70	6.06	-

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2437MHz_TX

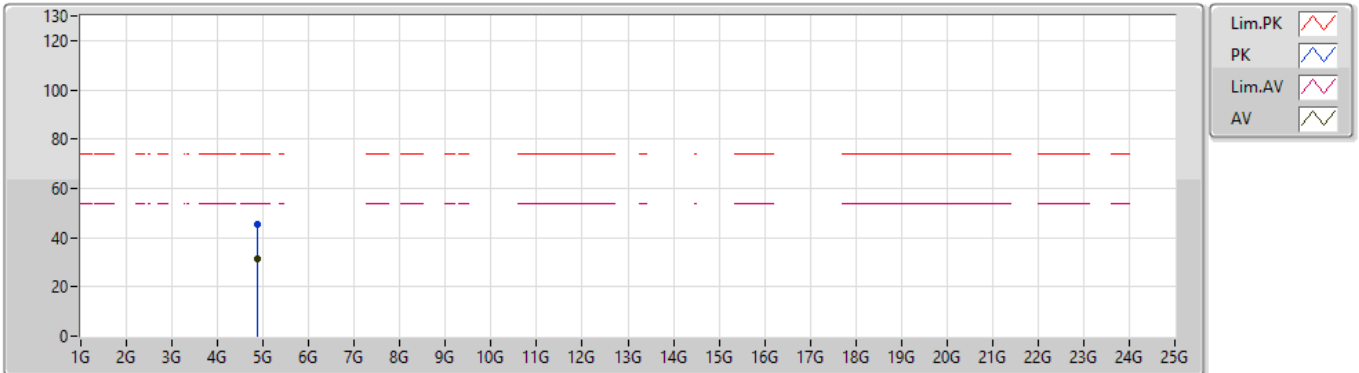


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87396G	31.12	54.00	-22.88	5.78	3	Vertical	16	2.16	-	25.34	31.35	8.30	33.87
PK	4.87952G	44.17	74.00	-29.83	5.77	3	Vertical	16	2.16	-	38.40	31.34	8.30	33.87

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2437MHz_TX

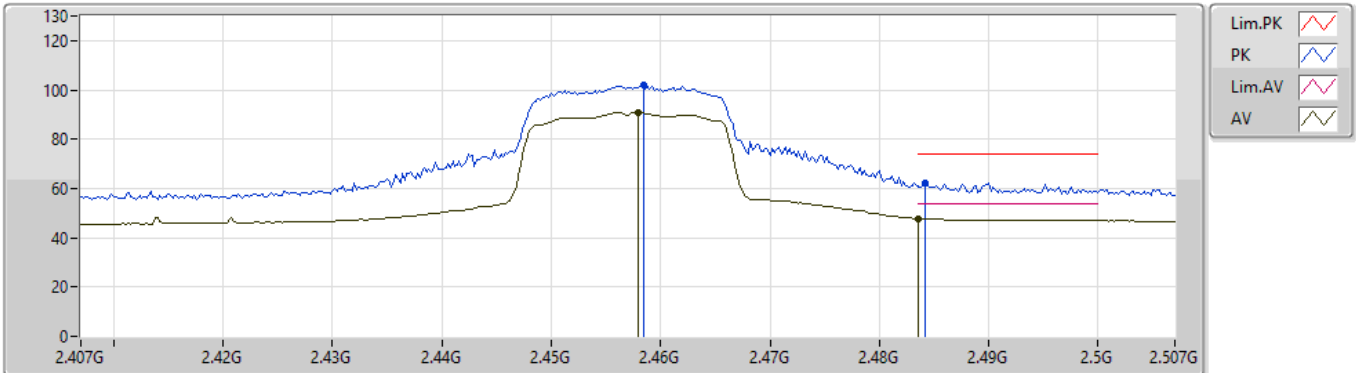


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8738G	31.54	54.00	-22.46	5.78	3	Horizontal	227	2.33	-	25.76	31.35	8.30	33.87
PK	4.87548G	45.15	74.00	-28.85	5.78	3	Horizontal	227	2.33	-	39.37	31.35	8.30	33.87

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2457MHz_TX

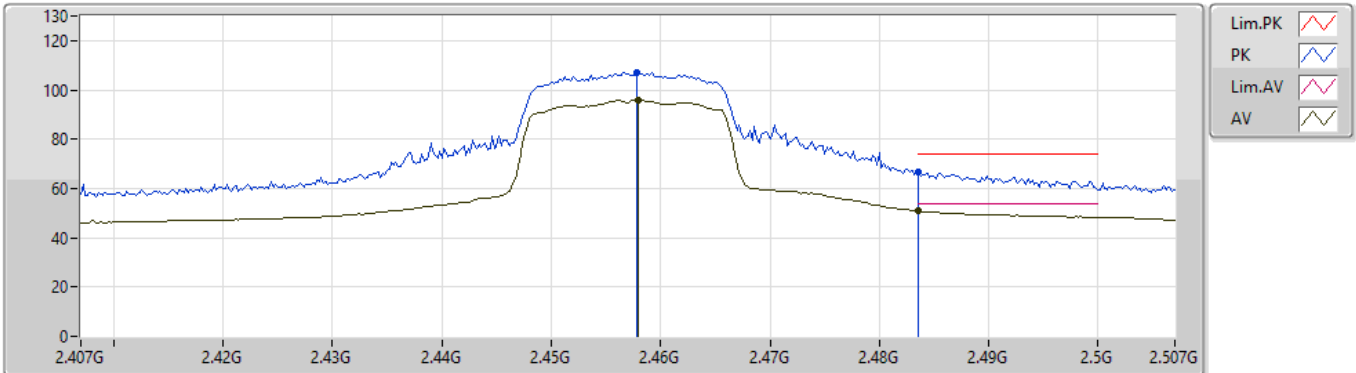


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.458G	90.85	Inf	-Inf	33.73	3	Vertical	347	1.00	-	57.12	27.70	6.03	-
AV	2.4835G	47.82	54.00	-6.18	33.76	3	Vertical	347	1.00	-	14.06	27.70	6.06	-
PK	2.4584G	101.85	Inf	-Inf	33.73	3	Vertical	347	1.00	-	68.12	27.70	6.03	-
PK	2.4842G	62.17	74.00	-11.83	33.76	3	Vertical	347	1.00	-	28.41	27.70	6.06	-

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2457MHz_TX

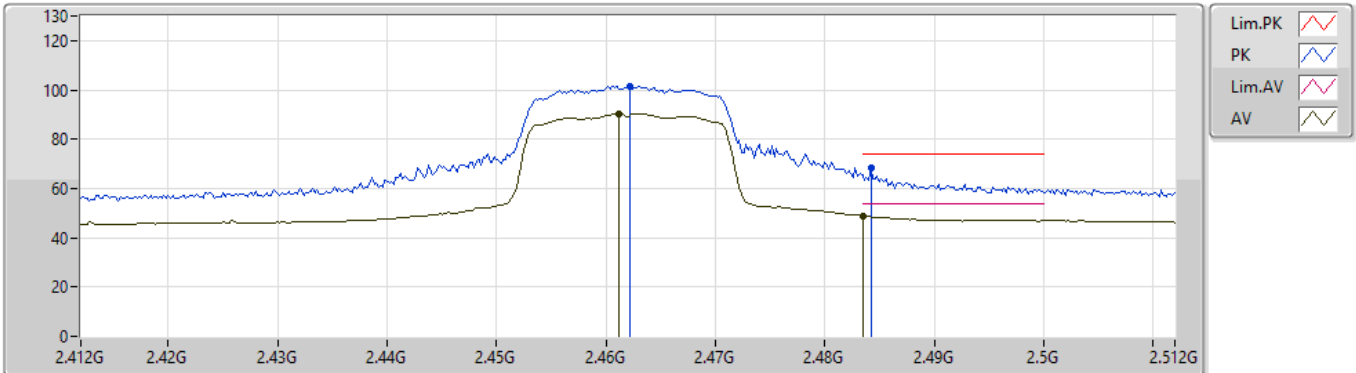


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.458G	95.96	Inf	-Inf	33.73	3	Horizontal	67	2.50	-	62.23	27.70	6.03	-
AV	2.4835G	50.95	54.00	-3.05	33.76	3	Horizontal	67	2.50	-	17.19	27.70	6.06	-
PK	2.4578G	107.16	Inf	-Inf	33.73	3	Horizontal	67	2.50	-	73.43	27.70	6.03	-
PK	2.4836G	66.68	74.00	-7.32	33.76	3	Horizontal	67	2.50	-	32.92	27.70	6.06	-

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

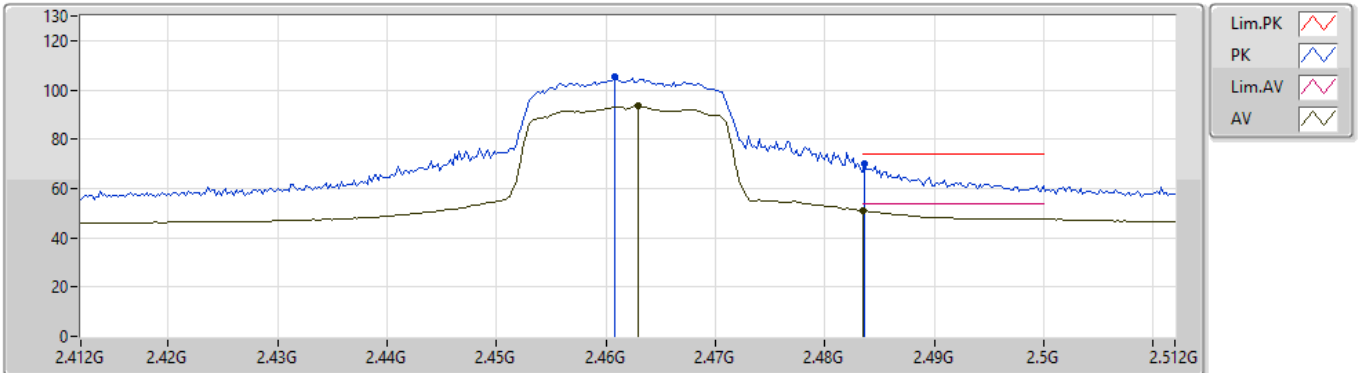
2462MHz_TX



802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2462MHz_TX

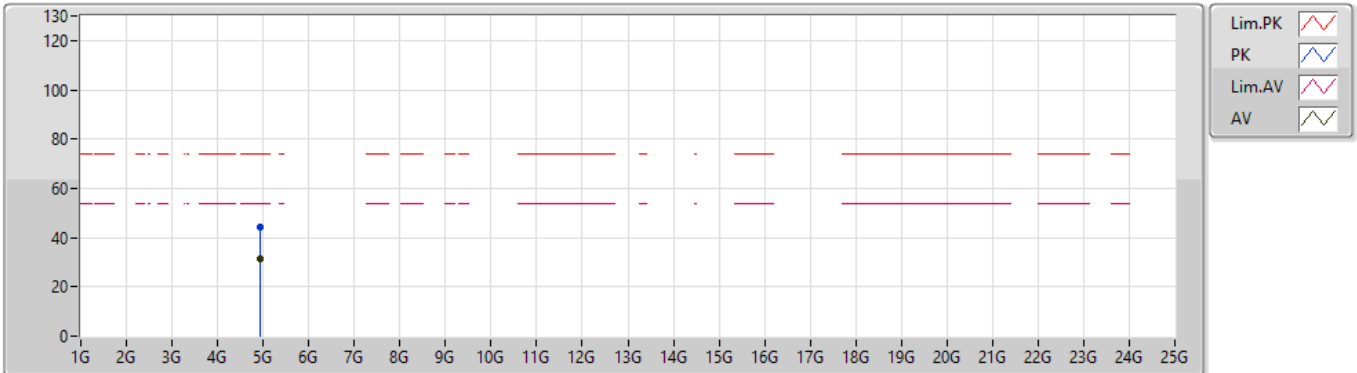


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.463G	93.31	Inf	-Inf	33.74	3	Horizontal	79	2.49	-	59.57	27.70	6.04	-
AV	2.4835G	50.97	54.00	-3.03	33.76	3	Horizontal	79	2.49	-	17.21	27.70	6.06	-
PK	2.4608G	105.24	Inf	-Inf	33.73	3	Horizontal	79	2.49	-	71.51	27.70	6.03	-
PK	2.4836G	69.93	74.00	-4.07	33.76	3	Horizontal	79	2.49	-	36.17	27.70	6.06	-

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2462MHz_TX

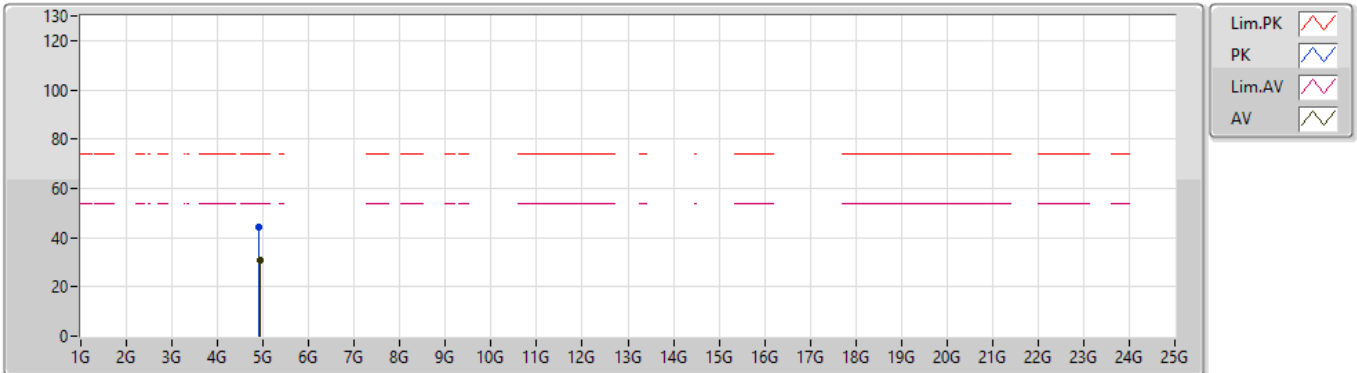


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92388G	31.57	54.00	-22.43	5.84	3	Vertical	170	2.99	-	25.73	31.35	8.33	33.84
PK	4.92508G	44.04	74.00	-29.96	5.84	3	Vertical	170	2.99	-	38.20	31.35	8.33	33.84

802.11n HT20_Nss1,(MCS0)_1TX

01/06/2020

2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92396G	30.55	54.00	-23.45	5.84	3	Horizontal	128	1.49	-	24.71	31.35	8.33	33.84
PK	4.91792G	44.01	74.00	-29.99	5.82	3	Horizontal	128	1.49	-	38.19	31.34	8.33	33.85