

FCC Test Report

FCC ID : RYK-WPEA-121N
Equipment : 802.11n,Dual Band, Wireless LAN PCI Express Half Mini Card
Brand Name : Sparklan
Model Name : WPEA-121N
Applicant : SparkLAN Communications, Inc.
8F., No. 257, Sec. 2, Tiding Blvd., Neihu District, Taipei City 11493, Taiwan
Manufacturer : SparkLAN Communications, Inc.
8F., No. 257, Sec. 2, Tiding Blvd., Neihu District, Taipei City 11493, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Oct. 19, 2020, and testing was started from Nov. 05, 2020 and completed on Nov. 24, 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 variant 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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PHOTOGRAPHS OF EUT V01



Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
-	15.207	AC Power-line Conducted Emissions	Not Performed	Refer to 1.1.4
-	15.247(a)	DTS Bandwidth	Not Performed	Refer to 1.1.4
-	15.247(b)	Maximum Conducted Output Power	Not Performed	Refer to 1.1.4
-	15.247(e)	Power Spectral Density	Not Performed	Refer to 1.1.4
-	15.247(d)	Emissions in Non-restricted Frequency Bands	Not Performed	Refer to 1.1.4
3.1	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]
2400-2483.5	n (HT40)	2422-2452	3-9 [7]

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

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.
- ◆ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model	Antenna Type	Connector
1	-	-	Dipole	Reversed-SMA
2	-	-	Dipole	Reversed-SMA
3	-	-	Monopole	N/A
4	JOHANSON TECHNOLOGY	2450AD46A5400	Chip	I-Pex

Ant.	Gain (dBi)	
	2.4G	5G
1	2.0	2.0
2	2.0	2.0
3	-	1.38
4	1.0	-1.5

For 2.4 GHz function:

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

Ant. 1, 2 could transmit/receive simultaneously.

For 5 GHz function:

Ant. 1, 2 could transmit/receive simultaneously.



1.1.3 EUT Information

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

1.1.4 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR131667-16AC

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Chip Antenna was added. (JOHANSON TECHNOLOGY/ 2450AD46A5400)	<ol style="list-style-type: none"> 1. Radiated Emission data was evaluated 2. Photographs of EUT was updated 3. For other test items, please refer to the original report.

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 662911 D01 v02r01
- ◆ KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	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.		
<input type="checkbox"/>	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.		
<input checked="" type="checkbox"/>	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
Radiated	03CH09-HY	Lego	20.5~22.8°C / 57~60%	05/Nov/2020~24/Nov/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
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%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

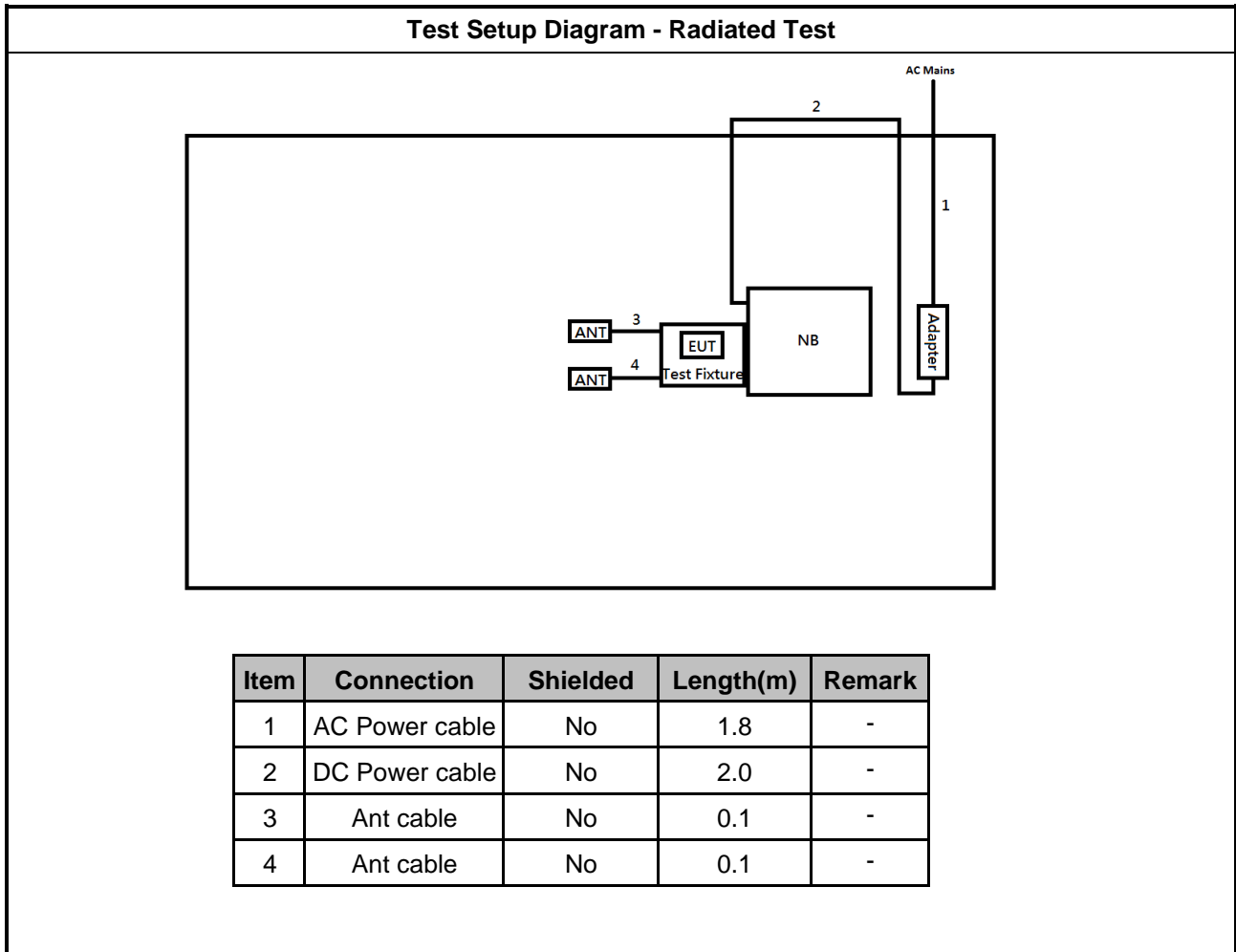
2.1 The Worst Case Measurement Configuration

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	Test fixture mode
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	Z Plane
	
Worst Planes of EUT	V

2.2 Support Equipment

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	Dell	P06G	-	-
2	Adapter	Dell	LA90PM-111	-	-
3	Test Fixture	SPORTON	SPORTON	-	-

2.3 Test Setup Diagram





3 Transmitter Test Result

3.1 Emissions in Restricted Frequency Bands

3.1.1 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.

3.1.2 Measuring Instruments

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



3.1.3 Test Procedures

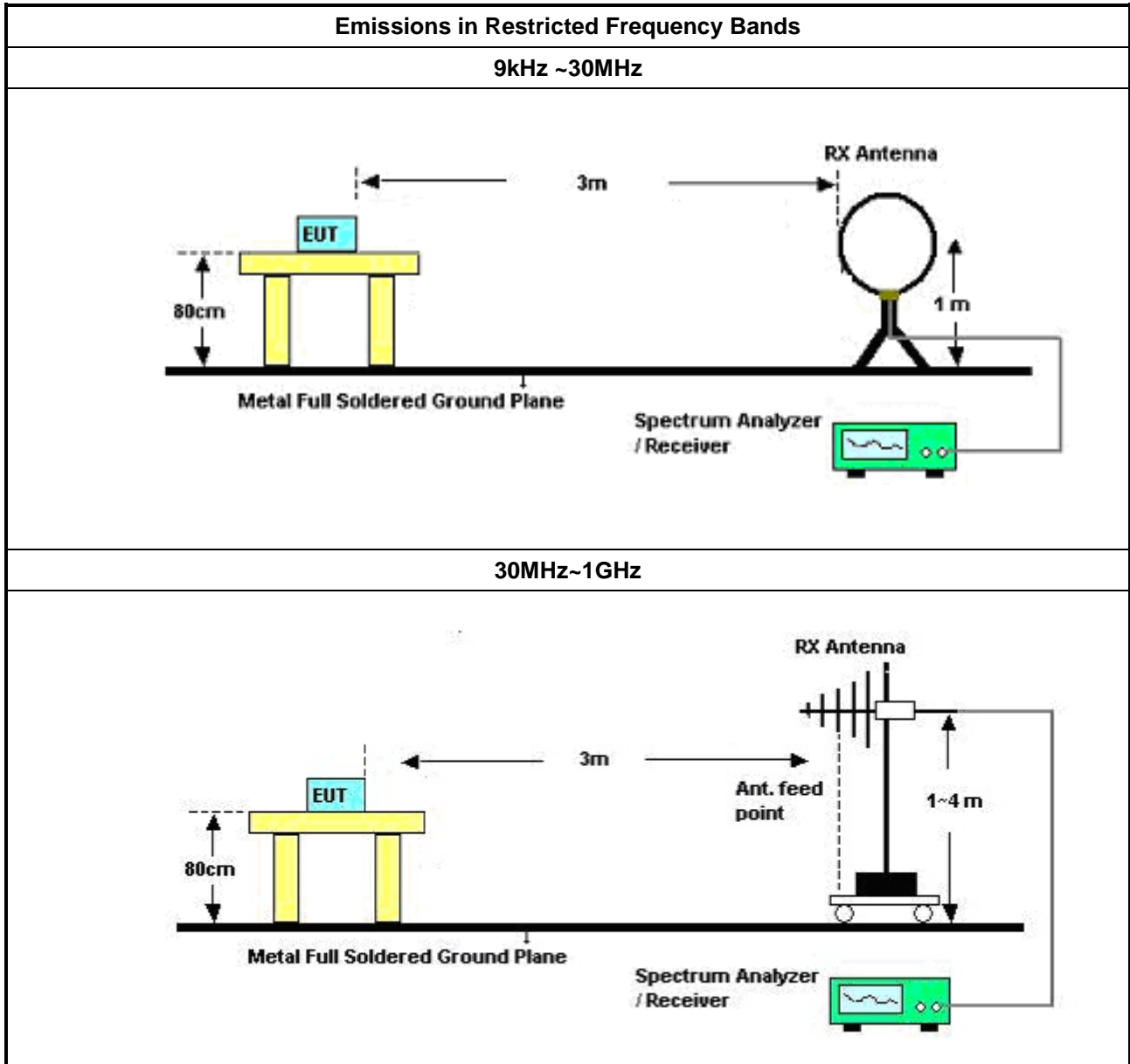
Test Method	
	<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below:
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	<ul style="list-style-type: none"> For the transmitter band-edge emissions shall be measured using following options below:
	<ul style="list-style-type: none"> 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.
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
	<ul style="list-style-type: none"> Use the following spectrum analyzer settings:
	<ul style="list-style-type: none"> Set RBW=100 kHz for f < 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	<ul style="list-style-type: none"> Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.
	<ul style="list-style-type: none"> KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	<ul style="list-style-type: none"> 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.
	<ul style="list-style-type: none"> Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

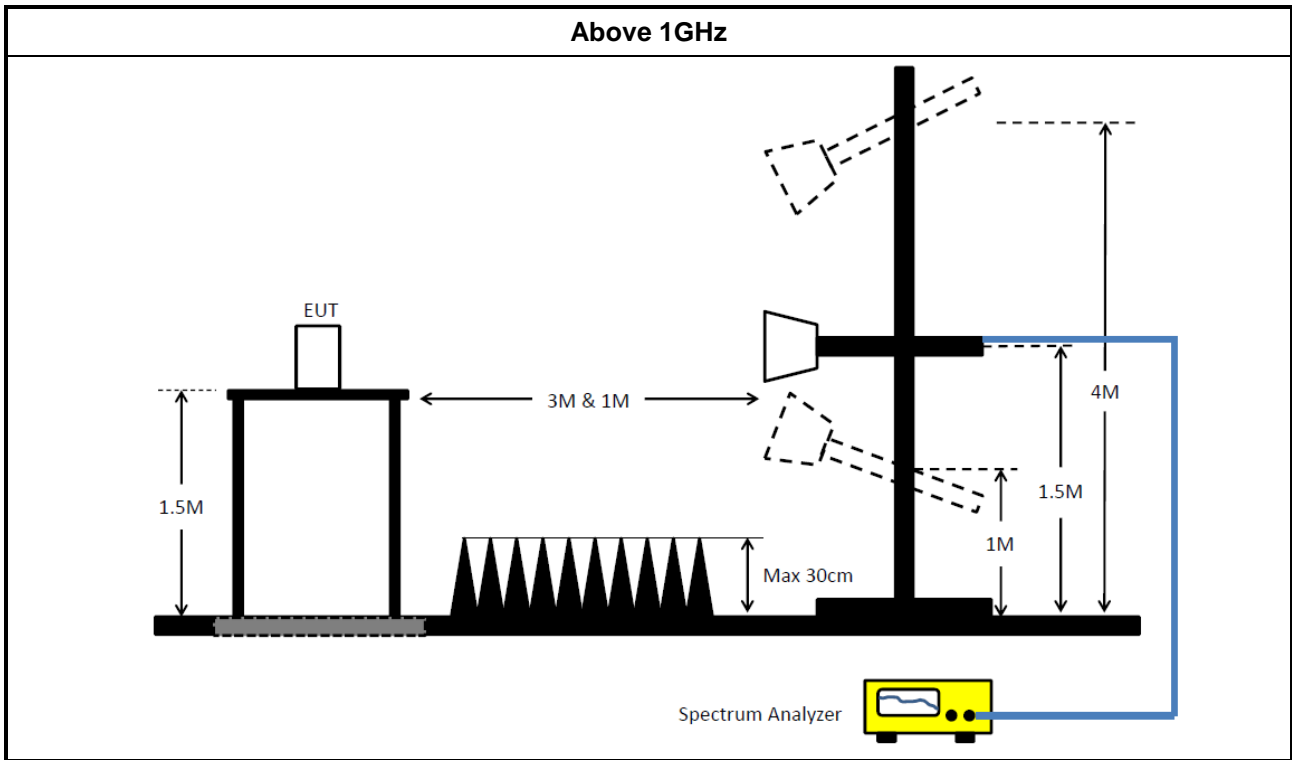
3.1.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.5 Test Setup





3.1.6 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.

3.1.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix A



4 Test Equipment and Calibration Data

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	27/Mar/2020	26/Mar/2021
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	19/Mar/2020	18/Mar/2021
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2020	10/Aug/2021
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	14/Apr/2020	13/Apr/2021
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	24/Jul/2020	23/Jul/2021
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MTJ 6102-05	35418 & 3	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBEC K	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	28/May/2020	27/May/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/ 4	9kHz~30MHz	03/Sep/2020	02/Sep/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/ 4	30MHz~1GHz	12/Feb/2020	11/Feb/2021
RF CABLE 5m+3m+1m	HUBER+SUHN ER	SUCOFLEX104	SN MY25918/4+ SN MY39478/4 + SN 324530/4	1GHz~40GHz	15/Aug/2020	14/Aug/2021
Broadband Horn Antenna	SCHWARZBEC K	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	10/Mar/2020	09/Mar/2021
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2020	15/Mar/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021



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 HT40_Nss1,(MCS0)_2TX	Pass	QP	317.12M	42.92	46.00	-3.08	3	Horizontal	104	1.18	-



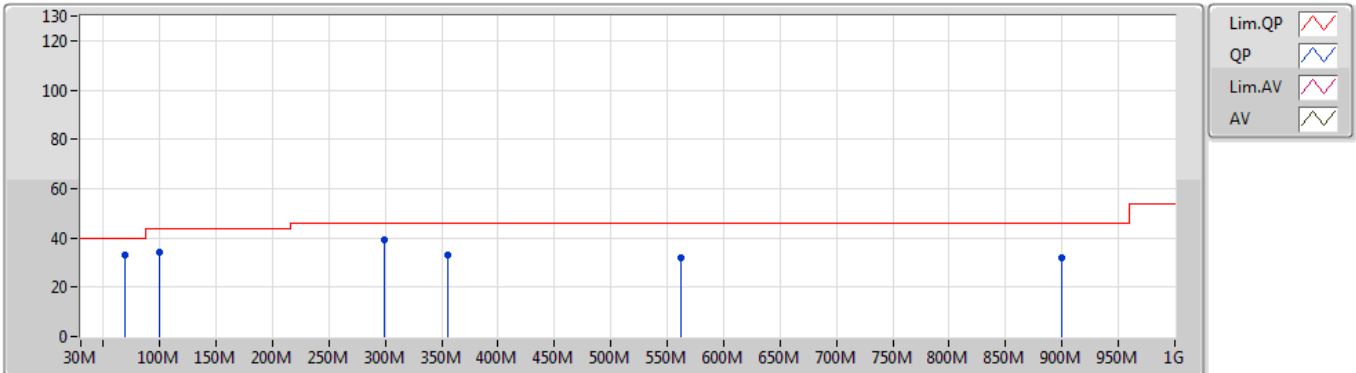
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1 (MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	68.8M	33.00	40.00	-7.00	3	Vertical	0	1.00	-
2437MHz	Pass	PK	99.84M	34.23	43.50	-9.27	3	Vertical	0	1.00	-
2437MHz	Pass	PK	299.66M	39.31	46.00	-6.69	3	Vertical	0	1.00	-
2437MHz	Pass	PK	355.92M	32.97	46.00	-13.03	3	Vertical	0	1.00	-
2437MHz	Pass	PK	561.56M	31.67	46.00	-14.33	3	Vertical	0	1.00	-
2437MHz	Pass	PK	899.12M	32.08	46.00	-13.92	3	Vertical	0	1.00	-
2437MHz	Pass	PK	57.16M	32.04	40.00	-7.96	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	99.84M	34.05	43.50	-9.45	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	239.52M	38.61	46.00	-7.39	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	899.12M	38.29	46.00	-7.71	3	Horizontal	360	1.00	-
2437MHz	Pass	QP	299.66M	42.87	46.00	-3.13	3	Horizontal	256	1.12	-
2437MHz	Pass	QP	317.12M	42.92	46.00	-3.08	3	Horizontal	104	1.18	-

802.11n HT40_Nss1,(MCS0)_2TX

24/11/2020

2437MHz_Test Fixture

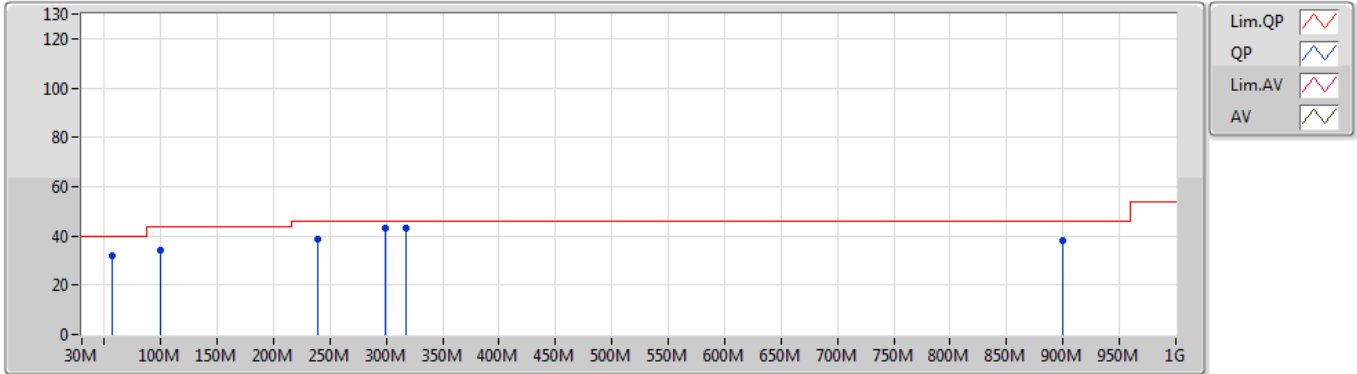


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	68.8M	33.00	40.00	-7.00	-24.97	3	Vertical	0	1.00	-	57.97	11.31	0.60	36.88
PK	99.84M	34.23	43.50	-9.27	-20.53	3	Vertical	0	1.00	-	54.76	15.23	0.80	36.56
PK	299.66M	39.31	46.00	-6.69	-16.62	3	Vertical	0	1.00	-	55.93	18.33	1.40	36.35
PK	355.92M	32.97	46.00	-13.03	-15.22	3	Vertical	0	1.00	-	48.19	19.75	1.52	36.49
PK	561.56M	31.67	46.00	-14.33	-9.67	3	Vertical	0	1.00	-	41.34	25.39	2.05	37.11
PK	899.12M	32.08	46.00	-13.92	-6.57	3	Vertical	0	1.00	-	38.65	28.16	2.80	37.53

802.11n HT40_Nss1,(MCS0)_2TX

24/11/2020

2437MHz_Test Fixture



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	57.16M	32.04	40.00	-7.96	-25.25	3	Horizontal	360	1.00	-	57.29	11.14	0.60	36.99
PK	99.84M	34.05	43.50	-9.45	-20.53	3	Horizontal	360	1.00	-	54.58	15.23	0.80	36.56
PK	239.52M	38.61	46.00	-7.39	-18.77	3	Horizontal	360	1.00	-	57.38	16.35	1.26	36.38
PK	899.12M	38.29	46.00	-7.71	-6.57	3	Horizontal	360	1.00	-	44.86	28.16	2.80	37.53
QP	299.66M	42.87	46.00	-3.13	-16.62	3	Horizontal	256	1.12	-	59.49	18.33	1.40	36.35
QP	317.12M	42.92	46.00	-3.08	-16.37	3	Horizontal	104	1.18	-	59.29	18.60	1.43	36.40



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	4.82398G	50.61	54.00	-3.39	3	Horizontal	268	2.42	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.39G	46.25	54.00	-7.75	3	Vertical	126	2.62	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.39G	45.73	54.00	-8.27	3	Horizontal	69	1.25	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	AV	2.3886G	45.68	54.00	-8.32	3	Horizontal	70	1.46	-



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)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.375G	43.05	54.00	-10.95	3	Vertical	298	1.17	-
2412MHz	Pass	AV	2.4138G	86.30	Inf	-Inf	3	Vertical	298	1.17	-
2412MHz	Pass	PK	2.3686G	56.34	74.00	-17.66	3	Vertical	298	1.17	-
2412MHz	Pass	PK	2.4148G	88.81	Inf	-Inf	3	Vertical	298	1.17	-
2412MHz	Pass	AV	2.3872G	44.05	54.00	-9.95	3	Horizontal	68	1.50	-
2412MHz	Pass	AV	2.4102G	93.74	Inf	-Inf	3	Horizontal	68	1.50	-
2412MHz	Pass	PK	2.366G	56.27	74.00	-17.73	3	Horizontal	68	1.50	-
2412MHz	Pass	PK	2.411G	96.09	Inf	-Inf	3	Horizontal	68	1.50	-
2412MHz	Pass	AV	4.824G	45.63	54.00	-8.37	3	Vertical	169	2.38	-
2412MHz	Pass	PK	4.82396G	49.90	74.00	-24.10	3	Vertical	169	2.38	-
2412MHz	Pass	AV	4.82398G	50.61	54.00	-3.39	3	Horizontal	268	2.42	-
2412MHz	Pass	PK	4.82394G	53.52	74.00	-20.48	3	Horizontal	268	2.42	-
2437MHz	Pass	AV	2.3498G	43.20	54.00	-10.80	3	Vertical	271	1.16	-
2437MHz	Pass	AV	2.4354G	84.85	Inf	-Inf	3	Vertical	271	1.16	-
2437MHz	Pass	AV	2.4934G	43.55	54.00	-10.45	3	Vertical	271	1.16	-
2437MHz	Pass	PK	2.3742G	56.23	74.00	-17.77	3	Vertical	271	1.16	-
2437MHz	Pass	PK	2.4362G	87.10	Inf	-Inf	3	Vertical	271	1.16	-
2437MHz	Pass	PK	2.4966G	56.05	74.00	-17.95	3	Vertical	271	1.16	-
2437MHz	Pass	AV	2.3606G	43.17	54.00	-10.83	3	Horizontal	68	1.38	-
2437MHz	Pass	AV	2.435G	91.75	Inf	-Inf	3	Horizontal	68	1.38	-
2437MHz	Pass	AV	2.4946G	43.57	54.00	-10.43	3	Horizontal	68	1.38	-
2437MHz	Pass	PK	2.3806G	56.45	74.00	-17.55	3	Horizontal	68	1.38	-
2437MHz	Pass	PK	2.4342G	93.97	Inf	-Inf	3	Horizontal	68	1.38	-
2437MHz	Pass	PK	2.489G	56.53	74.00	-17.47	3	Horizontal	68	1.38	-
2437MHz	Pass	AV	4.87399G	42.16	54.00	-11.84	3	Vertical	347	1.21	-
2437MHz	Pass	AV	7.30868G	41.62	54.00	-12.38	3	Vertical	196	2.96	-
2437MHz	Pass	PK	4.87401G	47.50	74.00	-26.50	3	Vertical	347	1.21	-
2437MHz	Pass	PK	7.30876G	51.08	74.00	-22.92	3	Vertical	196	2.96	-
2437MHz	Pass	AV	4.87396G	48.00	54.00	-6.00	3	Horizontal	264	1.10	-
2437MHz	Pass	AV	7.31016G	46.14	54.00	-7.86	3	Horizontal	187	2.51	-
2437MHz	Pass	PK	4.874G	51.34	74.00	-22.66	3	Horizontal	264	1.10	-
2437MHz	Pass	PK	7.31312G	53.54	74.00	-20.46	3	Horizontal	187	2.51	-
2462MHz	Pass	AV	2.4602G	84.36	Inf	-Inf	3	Vertical	124	2.78	-
2462MHz	Pass	AV	2.4968G	43.40	54.00	-10.60	3	Vertical	124	2.78	-
2462MHz	Pass	PK	2.4592G	87.03	Inf	-Inf	3	Vertical	124	2.78	-
2462MHz	Pass	PK	2.4932G	56.55	74.00	-17.45	3	Vertical	124	2.78	-
2462MHz	Pass	AV	2.4602G	85.36	Inf	-Inf	3	Horizontal	326	1.59	-
2462MHz	Pass	AV	2.4942G	43.46	54.00	-10.54	3	Horizontal	326	1.59	-
2462MHz	Pass	PK	2.4592G	87.95	Inf	-Inf	3	Horizontal	326	1.59	-
2462MHz	Pass	PK	2.4982G	56.99	74.00	-17.01	3	Horizontal	326	1.59	-
2462MHz	Pass	AV	4.924G	39.57	54.00	-14.43	3	Vertical	343	1.04	-
2462MHz	Pass	AV	7.38776G	37.31	54.00	-16.69	3	Vertical	330	2.80	-
2462MHz	Pass	PK	4.92391G	47.09	74.00	-26.91	3	Vertical	343	1.04	-
2462MHz	Pass	PK	7.38636G	50.00	74.00	-24.00	3	Vertical	330	2.80	-
2462MHz	Pass	AV	4.92399G	41.57	54.00	-12.43	3	Horizontal	341	2.17	-
2462MHz	Pass	AV	7.38516G	39.17	54.00	-14.83	3	Horizontal	171	2.27	-
2462MHz	Pass	PK	4.92404G	47.81	74.00	-26.19	3	Horizontal	341	2.17	-
2462MHz	Pass	PK	7.38244G	50.11	74.00	-23.89	3	Horizontal	171	2.27	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	46.25	54.00	-7.75	3	Vertical	126	2.62	-
2412MHz	Pass	AV	2.4156G	82.01	Inf	-Inf	3	Vertical	126	2.62	-
2412MHz	Pass	PK	2.39G	60.17	74.00	-13.83	3	Vertical	126	2.62	-
2412MHz	Pass	PK	2.4158G	91.74	Inf	-Inf	3	Vertical	126	2.62	-
2412MHz	Pass	AV	2.3898G	45.02	54.00	-8.98	3	Horizontal	75	1.26	-
2412MHz	Pass	AV	2.4194G	85.35	Inf	-Inf	3	Horizontal	75	1.26	-
2412MHz	Pass	PK	2.3888G	58.08	74.00	-15.92	3	Horizontal	75	1.26	-
2412MHz	Pass	PK	2.4144G	94.71	Inf	-Inf	3	Horizontal	75	1.26	-
2412MHz	Pass	AV	4.8226G	33.58	54.00	-20.42	3	Vertical	81	2.07	-
2412MHz	Pass	PK	4.82252G	46.89	74.00	-27.11	3	Vertical	81	2.07	-
2412MHz	Pass	AV	4.82398G	35.71	54.00	-18.29	3	Horizontal	265	1.18	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2412MHz	Pass	PK	4.82378G	48.64	74.00	-25.36	3	Horizontal	265	1.18	-
2437MHz	Pass	AV	2.3514G	44.07	54.00	-9.93	3	Vertical	140	1.47	-
2437MHz	Pass	AV	2.4306G	79.20	Inf	-Inf	3	Vertical	140	1.47	-
2437MHz	Pass	AV	2.493G	44.40	54.00	-9.60	3	Vertical	140	1.47	-
2437MHz	Pass	PK	2.3798G	56.10	74.00	-17.90	3	Vertical	140	1.47	-
2437MHz	Pass	PK	2.431G	87.64	Inf	-Inf	3	Vertical	140	1.47	-
2437MHz	Pass	PK	2.4986G	56.73	74.00	-17.27	3	Vertical	140	1.47	-
2437MHz	Pass	AV	2.375G	44.07	54.00	-9.93	3	Horizontal	68	1.50	-
2437MHz	Pass	AV	2.4294G	86.67	Inf	-Inf	3	Horizontal	68	1.50	-
2437MHz	Pass	AV	2.4982G	44.40	54.00	-9.60	3	Horizontal	68	1.50	-
2437MHz	Pass	PK	2.363G	56.77	74.00	-17.23	3	Horizontal	68	1.50	-
2437MHz	Pass	PK	2.4302G	95.10	Inf	-Inf	3	Horizontal	68	1.50	-
2437MHz	Pass	PK	2.495G	56.29	74.00	-17.71	3	Horizontal	68	1.50	-
2437MHz	Pass	AV	4.87276G	33.45	54.00	-20.55	3	Vertical	86	2.69	-
2437MHz	Pass	AV	7.30672G	38.14	54.00	-15.86	3	Vertical	84	1.89	-
2437MHz	Pass	PK	4.87316G	46.01	74.00	-27.99	3	Vertical	86	2.69	-
2437MHz	Pass	PK	7.30706G	50.83	74.00	-23.17	3	Vertical	84	1.89	-
2437MHz	Pass	AV	4.87296G	35.12	54.00	-18.88	3	Horizontal	213	1.01	-
2437MHz	Pass	AV	7.30864G	40.34	54.00	-13.66	3	Horizontal	322	1.00	-
2437MHz	Pass	PK	4.87388G	48.24	74.00	-25.76	3	Horizontal	213	1.01	-
2437MHz	Pass	PK	7.30914G	53.33	74.00	-20.67	3	Horizontal	322	1.00	-
2462MHz	Pass	AV	2.4558G	78.45	Inf	-Inf	3	Vertical	125	2.53	-
2462MHz	Pass	AV	2.4974G	44.53	54.00	-9.47	3	Vertical	125	2.53	-
2462MHz	Pass	PK	2.4564G	87.94	Inf	-Inf	3	Vertical	125	2.53	-
2462MHz	Pass	PK	2.4964G	56.96	74.00	-17.04	3	Vertical	125	2.53	-
2462MHz	Pass	AV	2.456G	80.01	Inf	-Inf	3	Horizontal	329	1.61	-
2462MHz	Pass	AV	2.49G	44.59	54.00	-9.41	3	Horizontal	329	1.61	-
2462MHz	Pass	PK	2.4562G	89.55	Inf	-Inf	3	Horizontal	329	1.61	-
2462MHz	Pass	PK	2.4846G	57.26	74.00	-16.74	3	Horizontal	329	1.61	-
2462MHz	Pass	AV	4.92128G	31.52	54.00	-22.48	3	Vertical	252	2.54	-
2462MHz	Pass	AV	7.38634G	36.56	54.00	-17.44	3	Vertical	86	1.50	-
2462MHz	Pass	PK	4.92552G	43.68	74.00	-30.32	3	Vertical	252	2.54	-
2462MHz	Pass	PK	7.38548G	50.23	74.00	-23.77	3	Vertical	86	1.50	-
2462MHz	Pass	AV	4.92142G	32.22	54.00	-21.78	3	Horizontal	289	1.04	-
2462MHz	Pass	AV	7.3852G	37.25	54.00	-16.75	3	Horizontal	323	1.01	-
2462MHz	Pass	PK	4.9225G	44.62	74.00	-29.38	3	Horizontal	289	1.04	-
2462MHz	Pass	PK	7.38636G	50.01	74.00	-23.99	3	Horizontal	323	1.01	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3792G	44.18	54.00	-9.82	3	Vertical	299	1.15	-
2412MHz	Pass	AV	2.4078G	77.63	Inf	-Inf	3	Vertical	299	1.15	-
2412MHz	Pass	PK	2.3626G	57.29	74.00	-16.71	3	Vertical	299	1.15	-
2412MHz	Pass	PK	2.4086G	86.80	Inf	-Inf	3	Vertical	299	1.15	-
2412MHz	Pass	AV	2.39G	45.73	54.00	-8.27	3	Horizontal	69	1.25	-
2412MHz	Pass	AV	2.416G	84.69	Inf	-Inf	3	Horizontal	69	1.25	-
2412MHz	Pass	PK	2.39G	59.56	74.00	-14.44	3	Horizontal	69	1.25	-
2412MHz	Pass	PK	2.415G	94.44	Inf	-Inf	3	Horizontal	69	1.25	-
2412MHz	Pass	AV	4.82204G	32.04	54.00	-21.96	3	Vertical	78	2.09	-
2412MHz	Pass	PK	4.82276G	44.83	74.00	-29.17	3	Vertical	78	2.09	-
2412MHz	Pass	AV	4.82426G	34.16	54.00	-19.84	3	Horizontal	265	1.20	-
2412MHz	Pass	PK	4.82162G	46.64	74.00	-27.36	3	Horizontal	265	1.20	-
2437MHz	Pass	AV	2.3894G	44.17	54.00	-9.83	3	Vertical	281	1.50	-
2437MHz	Pass	AV	2.4306G	79.42	Inf	-Inf	3	Vertical	281	1.50	-
2437MHz	Pass	AV	2.4978G	44.46	54.00	-9.54	3	Vertical	281	1.50	-
2437MHz	Pass	PK	2.3858G	57.52	74.00	-16.48	3	Vertical	281	1.50	-
2437MHz	Pass	PK	2.4302G	89.27	Inf	-Inf	3	Vertical	281	1.50	-
2437MHz	Pass	PK	2.4974G	57.02	74.00	-16.98	3	Vertical	281	1.50	-
2437MHz	Pass	AV	2.387G	44.08	54.00	-9.92	3	Horizontal	71	1.49	-
2437MHz	Pass	AV	2.4298G	87.28	Inf	-Inf	3	Horizontal	71	1.49	-
2437MHz	Pass	AV	2.4978G	44.36	54.00	-9.64	3	Horizontal	71	1.49	-
2437MHz	Pass	PK	2.3814G	56.81	74.00	-17.19	3	Horizontal	71	1.49	-
2437MHz	Pass	PK	2.4294G	96.29	Inf	-Inf	3	Horizontal	71	1.49	-
2437MHz	Pass	PK	2.4894G	57.24	74.00	-16.76	3	Horizontal	71	1.49	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	AV	4.87092G	32.97	54.00	-21.03	3	Vertical	346	2.44	-
2437MHz	Pass	AV	7.31144G	37.93	54.00	-16.07	3	Vertical	85	1.91	-
2437MHz	Pass	PK	4.87242G	45.50	74.00	-28.50	3	Vertical	346	2.44	-
2437MHz	Pass	PK	7.3128G	50.45	74.00	-23.55	3	Vertical	85	1.91	-
2437MHz	Pass	AV	4.87228G	35.34	54.00	-18.66	3	Horizontal	211	2.65	-
2437MHz	Pass	AV	7.30556G	40.27	54.00	-13.73	3	Horizontal	325	1.00	-
2437MHz	Pass	PK	4.8716G	49.29	74.00	-24.71	3	Horizontal	211	2.65	-
2437MHz	Pass	PK	7.30528G	53.64	74.00	-20.36	3	Horizontal	325	1.00	-
2462MHz	Pass	AV	2.4558G	77.66	Inf	-Inf	3	Vertical	128	2.54	-
2462MHz	Pass	AV	2.499G	44.58	54.00	-9.42	3	Vertical	128	2.54	-
2462MHz	Pass	PK	2.4554G	87.12	Inf	-Inf	3	Vertical	128	2.54	-
2462MHz	Pass	PK	2.489G	56.88	74.00	-17.12	3	Vertical	128	2.54	-
2462MHz	Pass	AV	2.457G	79.47	Inf	-Inf	3	Horizontal	322	1.61	-
2462MHz	Pass	AV	2.4996G	44.55	54.00	-9.45	3	Horizontal	322	1.61	-
2462MHz	Pass	PK	2.4556G	88.81	Inf	-Inf	3	Horizontal	322	1.61	-
2462MHz	Pass	PK	2.4924G	57.62	74.00	-16.38	3	Horizontal	322	1.61	-
2462MHz	Pass	AV	4.92152G	30.49	54.00	-23.51	3	Vertical	337	1.61	-
2462MHz	Pass	AV	7.3878G	36.39	54.00	-17.61	3	Vertical	100	1.50	-
2462MHz	Pass	PK	4.92248G	43.33	74.00	-30.67	3	Vertical	337	1.61	-
2462MHz	Pass	PK	7.39532G	49.29	74.00	-24.71	3	Vertical	100	1.50	-
2462MHz	Pass	AV	4.92016G	31.14	54.00	-22.86	3	Horizontal	213	2.70	-
2462MHz	Pass	AV	7.3824G	37.38	54.00	-16.62	3	Horizontal	319	1.00	-
2462MHz	Pass	PK	4.92512G	43.92	74.00	-30.08	3	Horizontal	213	2.70	-
2462MHz	Pass	PK	7.38028G	50.45	74.00	-23.55	3	Horizontal	319	1.00	-
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.3848G	44.90	54.00	-9.10	3	Vertical	279	1.15	-
2422MHz	Pass	AV	2.4272G	71.85	Inf	-Inf	3	Vertical	279	1.15	-
2422MHz	Pass	AV	2.4896G	45.41	54.00	-8.59	3	Vertical	279	1.15	-
2422MHz	Pass	PK	2.388G	57.17	74.00	-16.83	3	Vertical	279	1.15	-
2422MHz	Pass	PK	2.426G	80.66	Inf	-Inf	3	Vertical	279	1.15	-
2422MHz	Pass	PK	2.4835G	56.26	74.00	-17.74	3	Vertical	279	1.15	-
2422MHz	Pass	AV	2.3872G	45.17	54.00	-8.83	3	Horizontal	67	1.26	-
2422MHz	Pass	AV	2.4048G	79.81	Inf	-Inf	3	Horizontal	67	1.26	-
2422MHz	Pass	AV	2.4864G	45.18	54.00	-8.82	3	Horizontal	67	1.26	-
2422MHz	Pass	PK	2.376G	57.09	74.00	-16.91	3	Horizontal	67	1.26	-
2422MHz	Pass	PK	2.4048G	88.47	Inf	-Inf	3	Horizontal	67	1.26	-
2422MHz	Pass	PK	2.494G	56.54	74.00	-17.46	3	Horizontal	67	1.26	-
2422MHz	Pass	AV	4.84502G	31.83	54.00	-22.17	3	Vertical	349	1.50	-
2422MHz	Pass	AV	7.26451G	37.67	54.00	-16.33	3	Vertical	360	1.50	-
2422MHz	Pass	PK	4.8428G	43.83	74.00	-30.17	3	Vertical	349	1.50	-
2422MHz	Pass	PK	7.26741G	49.73	74.00	-24.27	3	Vertical	360	1.50	-
2422MHz	Pass	AV	4.84232G	32.78	54.00	-21.22	3	Horizontal	261	1.00	-
2422MHz	Pass	AV	7.26387G	38.20	54.00	-15.80	3	Horizontal	318	1.00	-
2422MHz	Pass	PK	4.84004G	44.24	74.00	-29.76	3	Horizontal	261	1.00	-
2422MHz	Pass	PK	7.2658G	50.12	74.00	-23.88	3	Horizontal	318	1.00	-
2437MHz	Pass	AV	2.371G	44.86	54.00	-9.14	3	Vertical	282	1.47	-
2437MHz	Pass	AV	2.427G	74.77	Inf	-Inf	3	Vertical	282	1.47	-
2437MHz	Pass	AV	2.499G	45.31	54.00	-8.69	3	Vertical	282	1.47	-
2437MHz	Pass	PK	2.371G	57.09	74.00	-16.91	3	Vertical	282	1.47	-
2437MHz	Pass	PK	2.4274G	84.42	Inf	-Inf	3	Vertical	282	1.47	-
2437MHz	Pass	PK	2.4858G	56.61	74.00	-17.39	3	Vertical	282	1.47	-
2437MHz	Pass	AV	2.3886G	45.68	54.00	-8.32	3	Horizontal	70	1.46	-
2437MHz	Pass	AV	2.4266G	83.33	Inf	-Inf	3	Horizontal	70	1.46	-
2437MHz	Pass	AV	2.4878G	45.11	54.00	-8.89	3	Horizontal	70	1.46	-
2437MHz	Pass	PK	2.381G	57.48	74.00	-16.52	3	Horizontal	70	1.46	-
2437MHz	Pass	PK	2.427G	92.17	Inf	-Inf	3	Horizontal	70	1.46	-
2437MHz	Pass	PK	2.4982G	56.40	74.00	-17.60	3	Horizontal	70	1.46	-
2437MHz	Pass	AV	4.87082G	31.11	54.00	-22.89	3	Vertical	324	2.53	-
2437MHz	Pass	AV	7.31156G	37.50	54.00	-16.50	3	Vertical	149	2.76	-
2437MHz	Pass	PK	4.87374G	44.41	74.00	-29.59	3	Vertical	324	2.53	-
2437MHz	Pass	PK	7.31282G	49.16	74.00	-24.84	3	Vertical	149	2.76	-
2437MHz	Pass	AV	4.87702G	32.12	54.00	-21.88	3	Horizontal	268	1.04	-

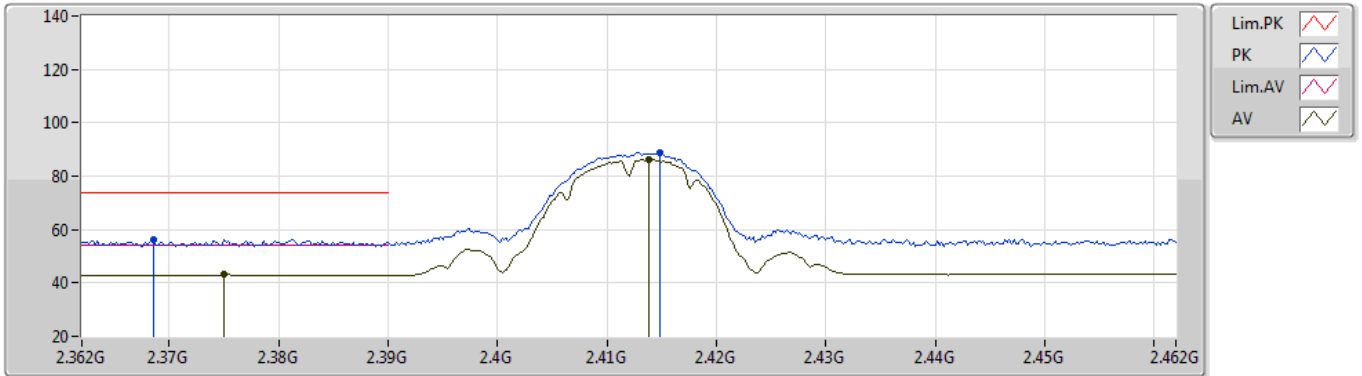


Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	AV	7.30724G	38.06	54.00	-15.94	3	Horizontal	320	2.18	-
2437MHz	Pass	PK	4.87774G	44.08	74.00	-29.92	3	Horizontal	268	1.04	-
2437MHz	Pass	PK	7.31014G	51.12	74.00	-22.88	3	Horizontal	320	2.18	-
2452MHz	Pass	AV	2.3604G	44.74	54.00	-9.26	3	Vertical	279	1.13	-
2452MHz	Pass	AV	2.4368G	71.31	Inf	-Inf	3	Vertical	279	1.13	-
2452MHz	Pass	AV	2.4996G	45.09	54.00	-8.91	3	Vertical	279	1.13	-
2452MHz	Pass	PK	2.3704G	56.00	74.00	-18.00	3	Vertical	279	1.13	-
2452MHz	Pass	PK	2.4352G	80.09	Inf	-Inf	3	Vertical	279	1.13	-
2452MHz	Pass	PK	2.5G	56.78	74.00	-17.22	3	Vertical	279	1.13	-
2452MHz	Pass	AV	2.3576G	45.01	54.00	-8.99	3	Horizontal	69	1.50	-
2452MHz	Pass	AV	2.4348G	77.25	Inf	-Inf	3	Horizontal	69	1.50	-
2452MHz	Pass	AV	2.4932G	45.17	54.00	-8.83	3	Horizontal	69	1.50	-
2452MHz	Pass	PK	2.3636G	56.30	74.00	-17.70	3	Horizontal	69	1.50	-
2452MHz	Pass	PK	2.4348G	85.98	Inf	-Inf	3	Horizontal	69	1.50	-
2452MHz	Pass	PK	2.4976G	57.26	74.00	-16.74	3	Horizontal	69	1.50	-
2452MHz	Pass	AV	4.90036G	31.15	54.00	-22.85	3	Vertical	321	1.50	-
2452MHz	Pass	AV	7.3511G	37.31	54.00	-16.69	3	Vertical	311	2.85	-
2452MHz	Pass	PK	4.89916G	43.45	74.00	-30.55	3	Vertical	321	1.50	-
2452MHz	Pass	PK	7.35164G	48.95	74.00	-25.05	3	Vertical	311	2.85	-
2452MHz	Pass	AV	4.90572G	31.00	54.00	-23.00	3	Horizontal	4	1.50	-
2452MHz	Pass	AV	7.35676G	37.37	54.00	-16.63	3	Horizontal	176	1.00	-
2452MHz	Pass	PK	4.90732G	43.78	74.00	-30.22	3	Horizontal	4	1.50	-
2452MHz	Pass	PK	7.35488G	49.45	74.00	-24.55	3	Horizontal	176	1.00	-

802.11b_Nss1,(1Mbps)_2TX

05/11/2020

2412MHz_TX

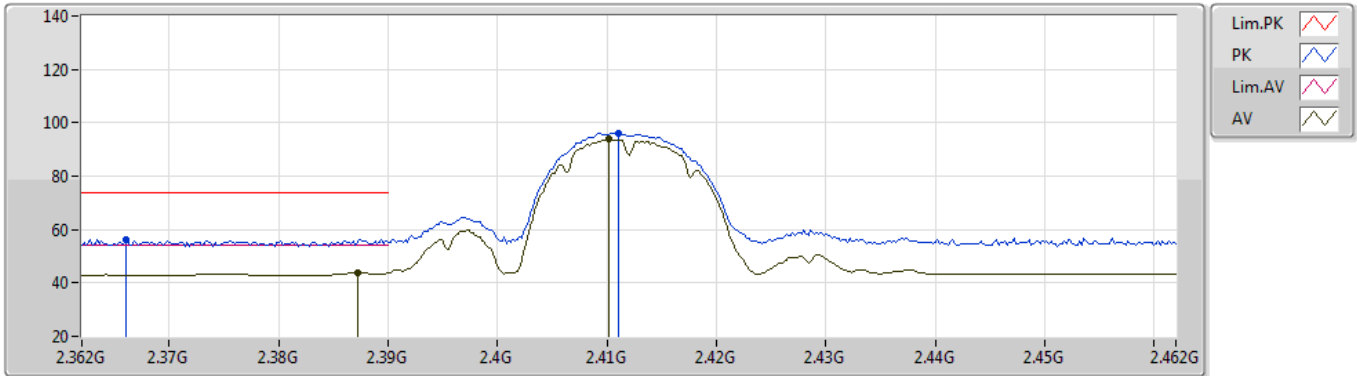


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.375G	43.05	54.00	-10.95	31.56	3	Vertical	298	1.17	-	11.49	27.70	3.86	-
AV	2.4138G	86.30	Inf	-Inf	31.52	3	Vertical	298	1.17	-	54.78	27.60	3.92	-
PK	2.3686G	56.34	74.00	-17.66	31.58	3	Vertical	298	1.17	-	24.76	27.73	3.85	-
PK	2.4148G	88.81	Inf	-Inf	31.52	3	Vertical	298	1.17	-	57.29	27.60	3.92	-

802.11b_Nss1,(1Mbps)_2TX

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2412MHz_TX

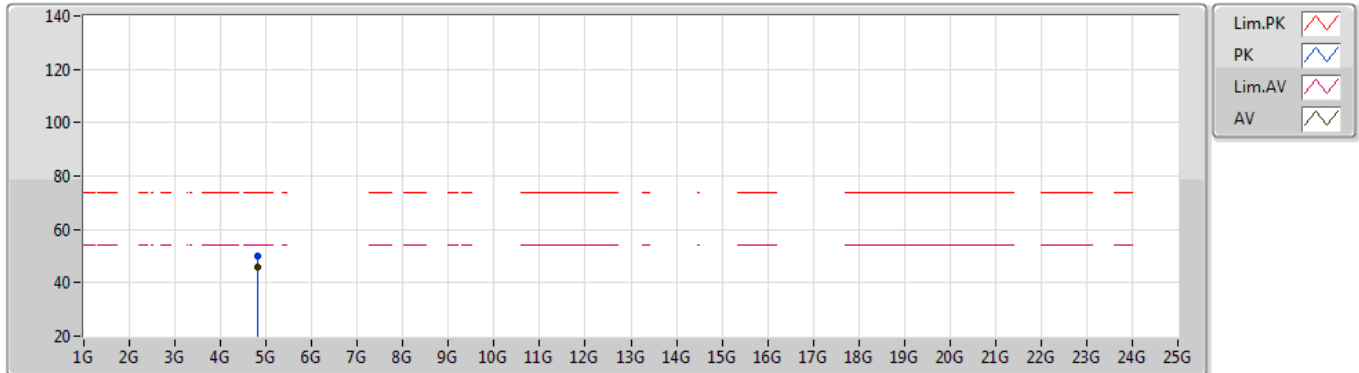


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3872G	44.05	54.00	-9.95	31.53	3	Horizontal	68	1.50	-	12.52	27.65	3.88	-
AV	2.4102G	93.74	Inf	-Inf	31.52	3	Horizontal	68	1.50	-	62.22	27.60	3.92	-
PK	2.366G	56.27	74.00	-17.73	31.59	3	Horizontal	68	1.50	-	24.68	27.74	3.85	-
PK	2.411G	96.09	Inf	-Inf	31.52	3	Horizontal	68	1.50	-	64.57	27.60	3.92	-

802.11b_Nss1,(1Mbps)_2TX

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2412MHz_TX

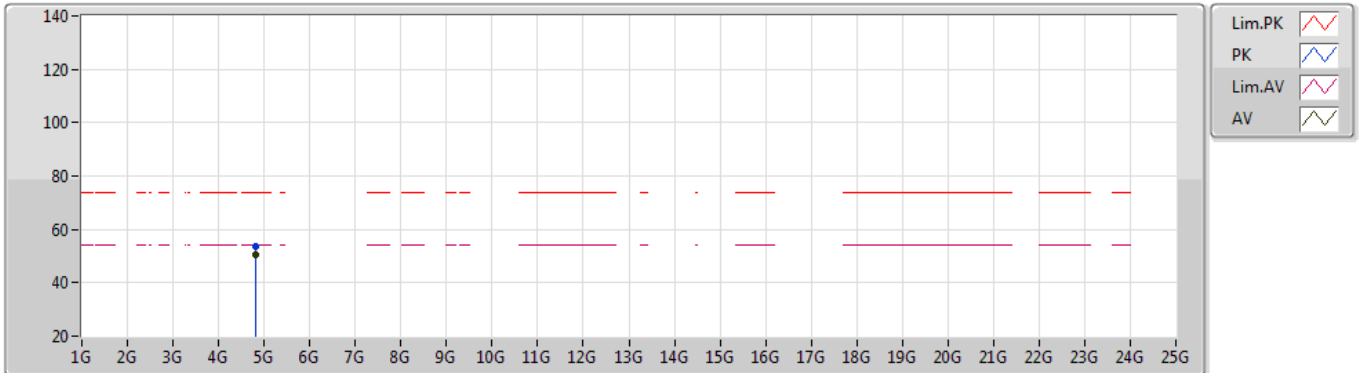


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.824G	45.63	54.00	-8.37	1.58	3	Vertical	169	2.38	-	44.05	31.20	5.31	34.93
PK	4.82396G	49.90	74.00	-24.10	1.58	3	Vertical	169	2.38	-	48.32	31.20	5.31	34.93

802.11b_Nss1,(1Mbps)_2TX

05/11/2020

2412MHz_TX

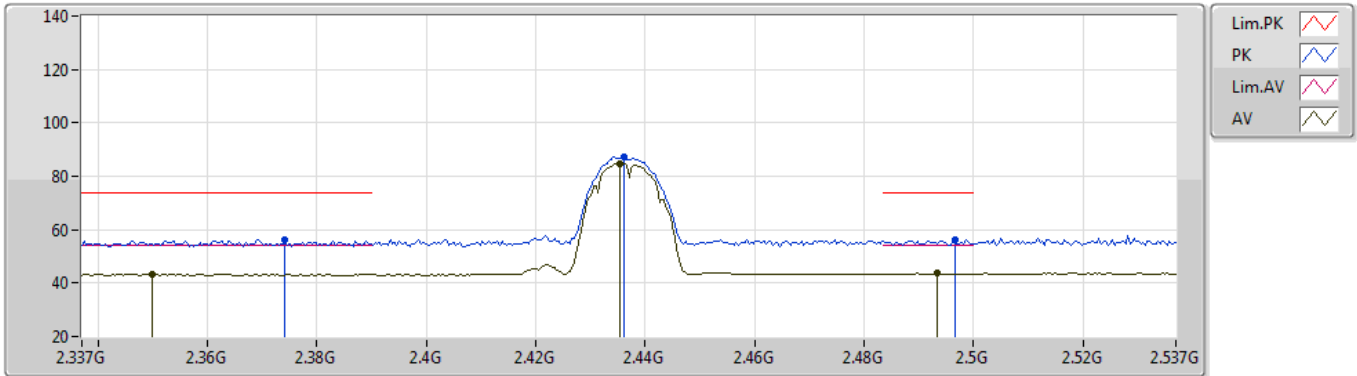


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82398G	50.61	54.00	-3.39	1.58	3	Horizontal	268	2.42	-	49.03	31.20	5.31	34.93
PK	4.82394G	53.52	74.00	-20.48	1.58	3	Horizontal	268	2.42	-	51.94	31.20	5.31	34.93

802.11b_Nss1,(1Mbps)_2TX

05/11/2020

2437MHz_TX

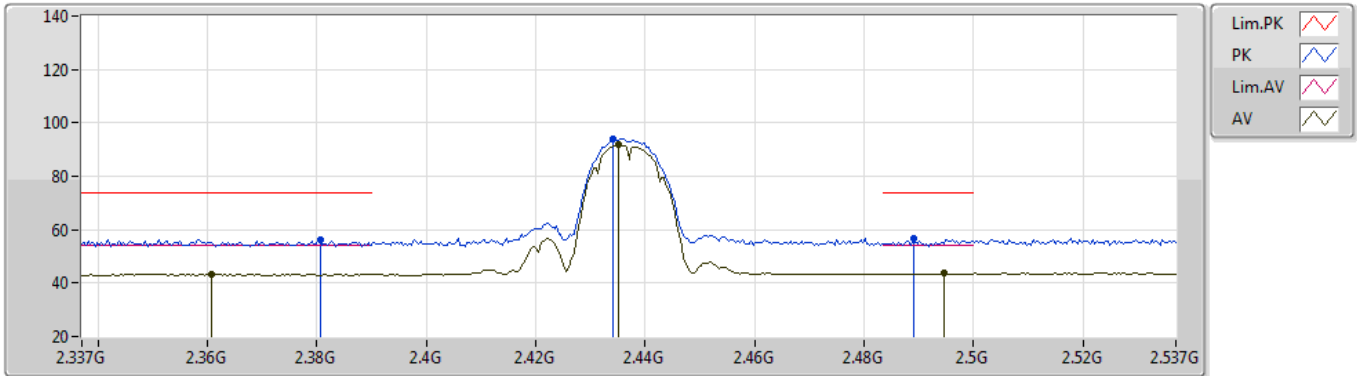


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3498G	43.20	54.00	-10.80	31.62	3	Vertical	271	1.16	-	11.58	27.80	3.82	-
AV	2.4354G	84.85	Inf	-Inf	31.55	3	Vertical	271	1.16	-	53.30	27.60	3.95	-
AV	2.4934G	43.55	54.00	-10.45	31.64	3	Vertical	271	1.16	-	11.91	27.60	4.04	-
PK	2.3742G	56.23	74.00	-17.77	31.56	3	Vertical	271	1.16	-	24.67	27.70	3.86	-
PK	2.4362G	87.10	Inf	-Inf	31.55	3	Vertical	271	1.16	-	55.55	27.60	3.95	-
PK	2.4966G	56.05	74.00	-17.95	31.64	3	Vertical	271	1.16	-	24.41	27.60	4.04	-

802.11b_Nss1,(1Mbps)_2TX

05/11/2020

2437MHz_TX

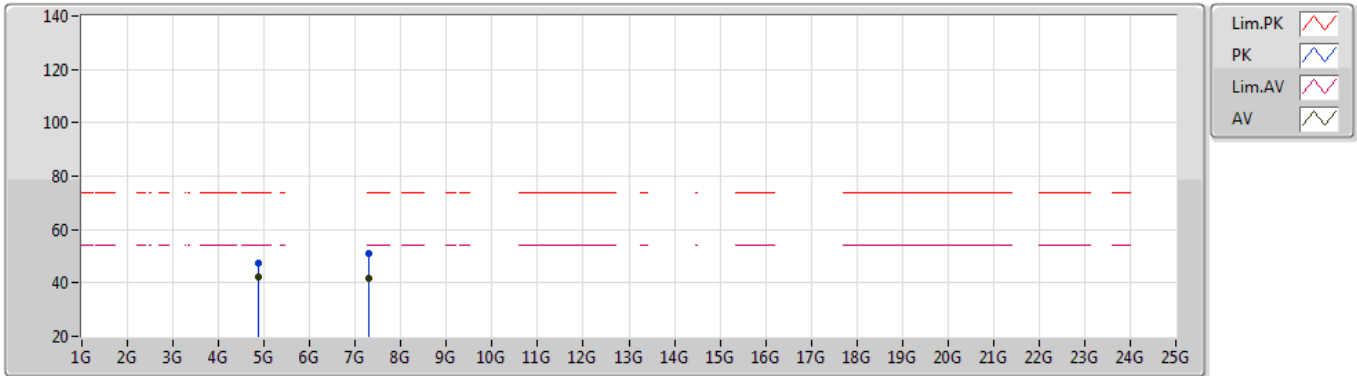


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3606G	43.17	54.00	-10.83	31.60	3	Horizontal	68	1.38	-	11.57	27.76	3.84	-
AV	2.435G	91.75	Inf	-Inf	31.55	3	Horizontal	68	1.38	-	60.20	27.60	3.95	-
AV	2.4946G	43.57	54.00	-10.43	31.64	3	Horizontal	68	1.38	-	11.93	27.60	4.04	-
PK	2.3806G	56.45	74.00	-17.55	31.55	3	Horizontal	68	1.38	-	24.90	27.68	3.87	-
PK	2.4342G	93.97	Inf	-Inf	31.55	3	Horizontal	68	1.38	-	62.42	27.60	3.95	-
PK	2.489G	56.53	74.00	-17.47	31.63	3	Horizontal	68	1.38	-	24.90	27.60	4.03	-

802.11b_Nss1,(1Mbps)_2TX

05/11/2020

2437MHz_TX

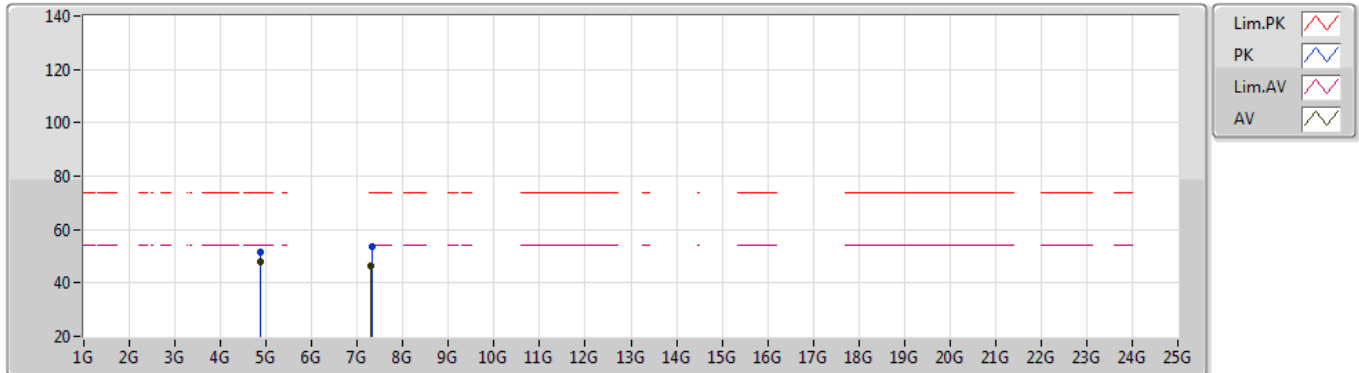


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87399G	42.16	54.00	-11.84	1.66	3	Vertical	347	1.21	-	40.50	31.25	5.34	34.93
AV	7.30868G	41.62	54.00	-12.38	8.20	3	Vertical	196	2.96	-	33.42	36.58	6.80	35.18
PK	4.87401G	47.50	74.00	-26.50	1.66	3	Vertical	347	1.21	-	45.84	31.25	5.34	34.93
PK	7.30876G	51.08	74.00	-22.92	8.20	3	Vertical	196	2.96	-	42.88	36.58	6.80	35.18

802.11b_Nss1,(1Mbps)_2TX

05/11/2020

2437MHz_TX

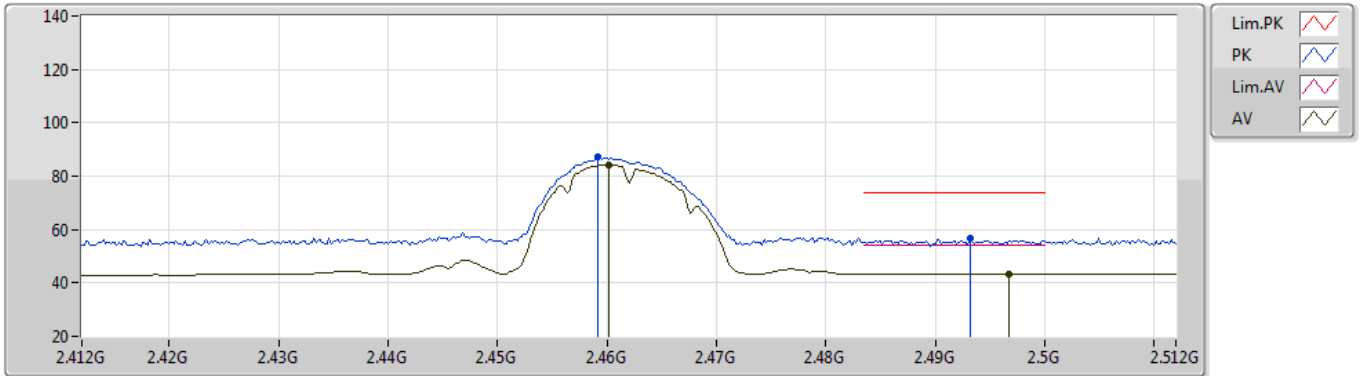


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87396G	48.00	54.00	-6.00	1.66	3	Horizontal	264	1.10	-	46.34	31.25	5.34	34.93
AV	7.31016G	46.14	54.00	-7.86	8.20	3	Horizontal	187	2.51	-	37.94	36.58	6.80	35.18
PK	4.874G	51.34	74.00	-22.66	1.66	3	Horizontal	264	1.10	-	49.68	31.25	5.34	34.93
PK	7.31312G	53.54	74.00	-20.46	8.19	3	Horizontal	187	2.51	-	45.35	36.57	6.80	35.18

802.11b_Nss1,(1Mbps)_2TX

05/11/2020

2462MHz_TX

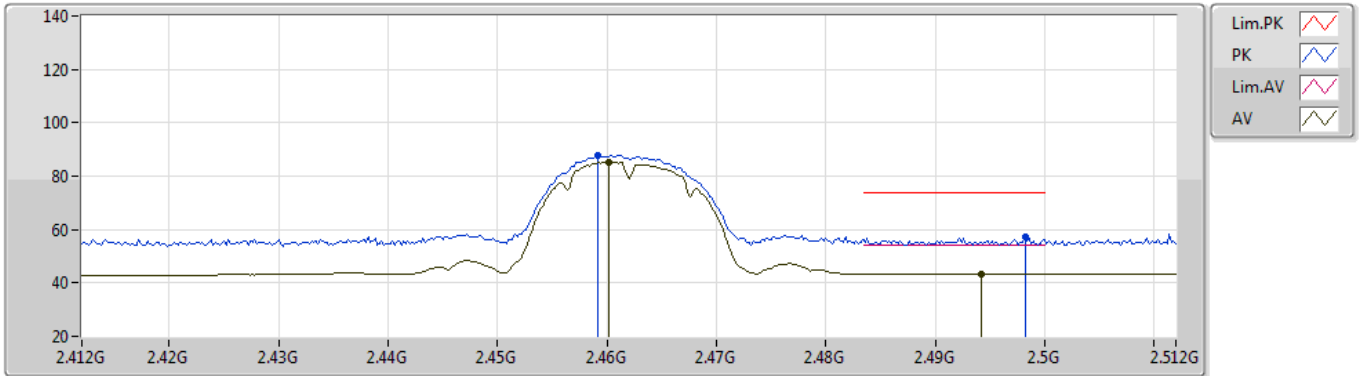


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4602G	84.36	Inf	-Inf	31.59	3	Vertical	124	2.78	-	52.77	27.60	3.99	-
AV	2.4968G	43.40	54.00	-10.60	31.65	3	Vertical	124	2.78	-	11.75	27.60	4.05	-
PK	2.4592G	87.03	Inf	-Inf	31.59	3	Vertical	124	2.78	-	55.44	27.60	3.99	-
PK	2.4932G	56.55	74.00	-17.45	31.64	3	Vertical	124	2.78	-	24.91	27.60	4.04	-

802.11b_Nss1,(1Mbps)_2TX

05/11/2020

2462MHz_TX

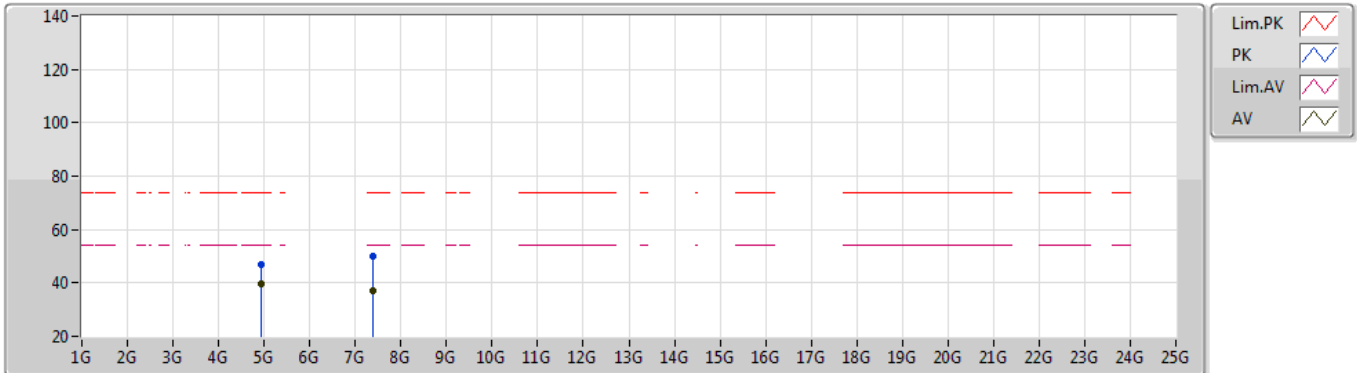


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4602G	85.36	Inf	-Inf	31.59	3	Horizontal	326	1.59	-	53.77	27.60	3.99	-
AV	2.4942G	43.46	54.00	-10.54	31.64	3	Horizontal	326	1.59	-	11.82	27.60	4.04	-
PK	2.4592G	87.95	Inf	-Inf	31.59	3	Horizontal	326	1.59	-	56.36	27.60	3.99	-
PK	2.4982G	56.99	74.00	-17.01	31.65	3	Horizontal	326	1.59	-	25.34	27.60	4.05	-

802.11b_Nss1,(1Mbps)_2TX

05/11/2020

2462MHz_TX

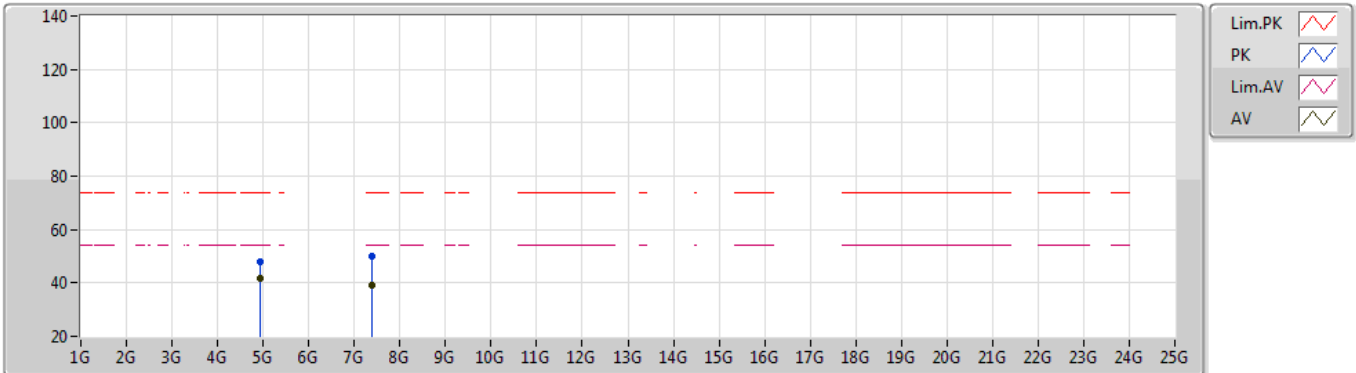


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.924G	39.57	54.00	-14.43	1.72	3	Vertical	343	1.04	-	37.85	31.30	5.36	34.94
AV	7.38776G	37.31	54.00	-16.69	8.04	3	Vertical	330	2.80	-	29.27	36.42	6.80	35.18
PK	4.92391G	47.09	74.00	-26.91	1.72	3	Vertical	343	1.04	-	45.37	31.30	5.36	34.94
PK	7.38636G	50.00	74.00	-24.00	8.05	3	Vertical	330	2.80	-	41.95	36.43	6.80	35.18

802.11b_Nss1,(1Mbps)_2TX

05/11/2020

2462MHz_TX

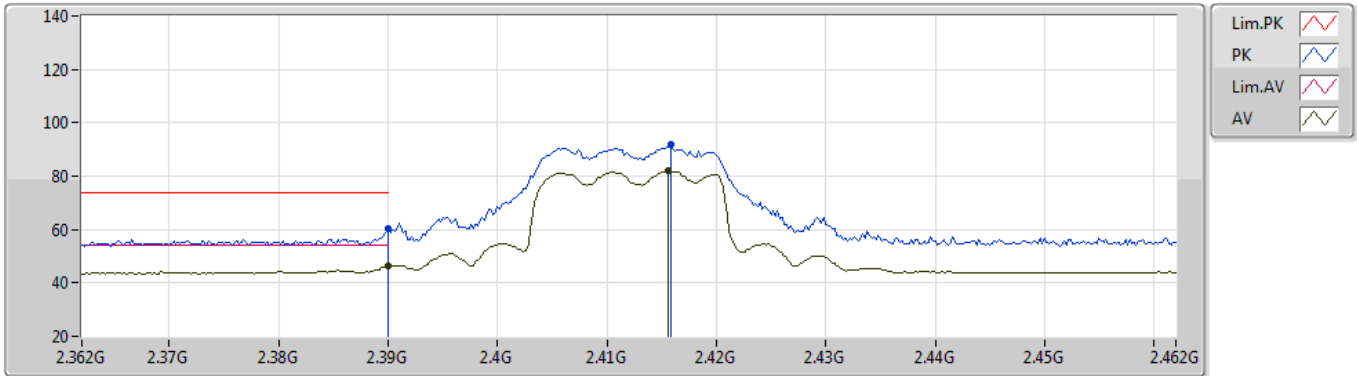


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92399G	41.57	54.00	-12.43	1.72	3	Horizontal	341	2.17	-	39.85	31.30	5.36	34.94
AV	7.38516G	39.17	54.00	-14.83	8.05	3	Horizontal	171	2.27	-	31.12	36.43	6.80	35.18
PK	4.92404G	47.81	74.00	-26.19	1.72	3	Horizontal	341	2.17	-	46.09	31.30	5.36	34.94
PK	7.38244G	50.11	74.00	-23.89	8.06	3	Horizontal	171	2.27	-	42.05	36.44	6.80	35.18

802.11g_Nss1,(6Mbps)_2TX

05/11/2020

2412MHz_TX

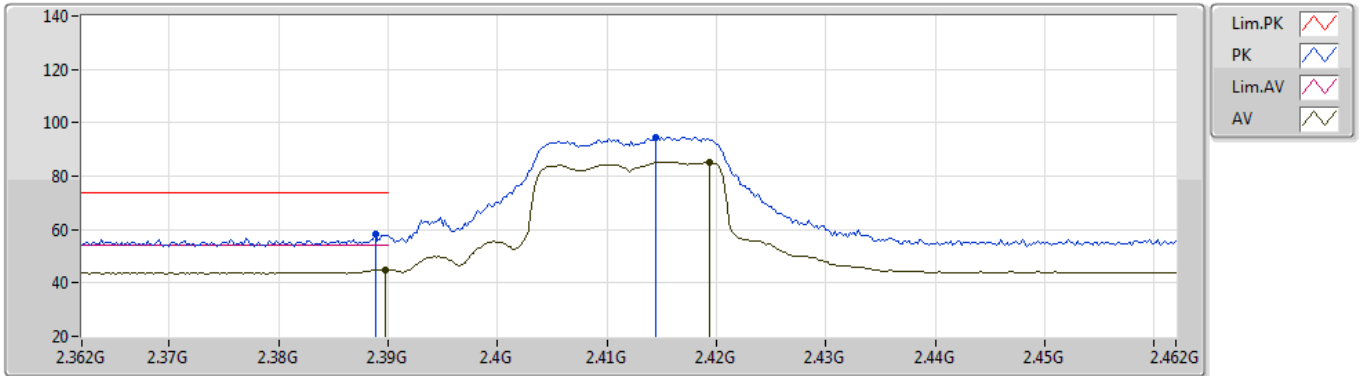


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	46.25	54.00	-7.75	31.52	3	Vertical	126	2.62	-	14.73	27.64	3.88	-
AV	2.4156G	82.01	Inf	-Inf	31.52	3	Vertical	126	2.62	-	50.49	27.60	3.92	-
PK	2.39G	60.17	74.00	-13.83	31.52	3	Vertical	126	2.62	-	28.65	27.64	3.88	-
PK	2.4158G	91.74	Inf	-Inf	31.52	3	Vertical	126	2.62	-	60.22	27.60	3.92	-

802.11g_Nss1,(6Mbps)_2TX

05/11/2020

2412MHz_TX

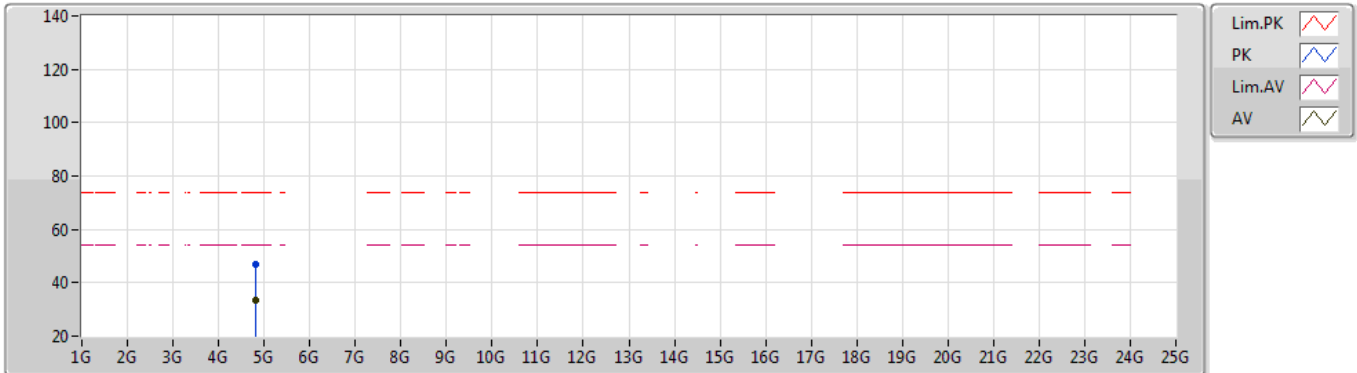


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	45.02	54.00	-8.98	31.52	3	Horizontal	75	1.26	-	13.50	27.64	3.88	-
AV	2.4194G	85.35	Inf	-Inf	31.53	3	Horizontal	75	1.26	-	53.82	27.60	3.93	-
PK	2.3888G	58.08	74.00	-15.92	31.52	3	Horizontal	75	1.26	-	26.56	27.64	3.88	-
PK	2.4144G	94.71	Inf	-Inf	31.52	3	Horizontal	75	1.26	-	63.19	27.60	3.92	-

802.11g_Nss1,(6Mbps)_2TX

05/11/2020

2412MHz_TX

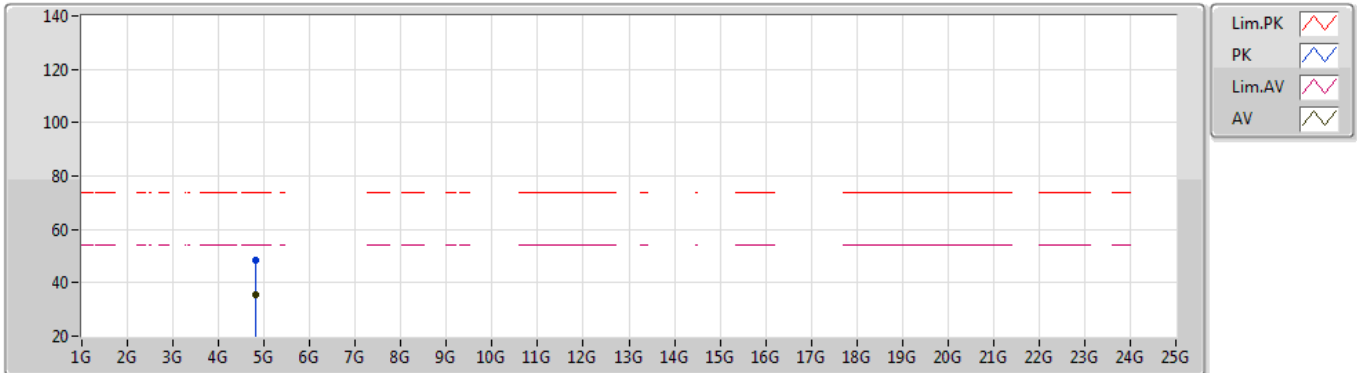


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8226G	33.58	54.00	-20.42	1.57	3	Vertical	81	2.07	-	32.01	31.19	5.31	34.93
PK	4.82252G	46.89	74.00	-27.11	1.57	3	Vertical	81	2.07	-	45.32	31.19	5.31	34.93

802.11g_Nss1,(6Mbps)_2TX

05/11/2020

2412MHz_TX

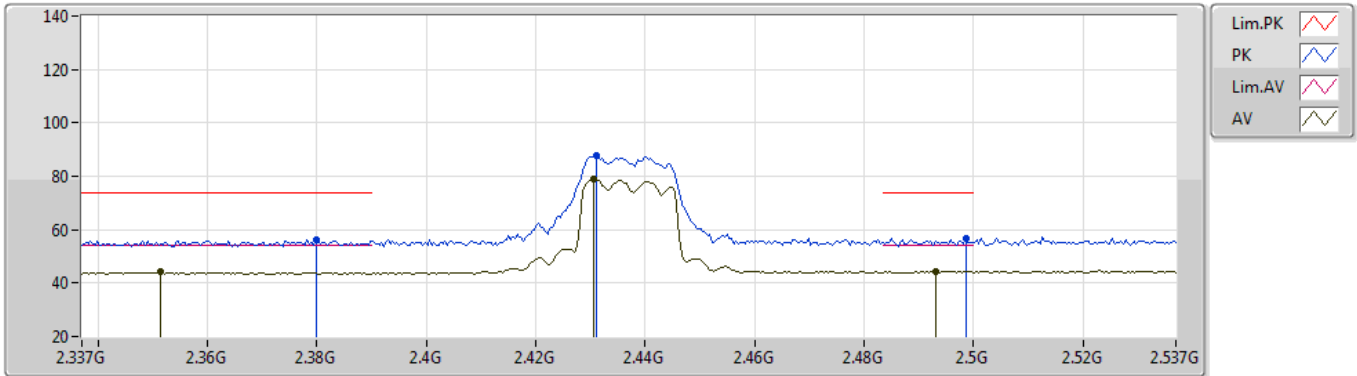


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82398G	35.71	54.00	-18.29	1.58	3	Horizontal	265	1.18	-	34.13	31.20	5.31	34.93
PK	4.82378G	48.64	74.00	-25.36	1.58	3	Horizontal	265	1.18	-	47.06	31.20	5.31	34.93

802.11g_Nss1,(6Mbps)_2TX

05/11/2020

2437MHz_TX

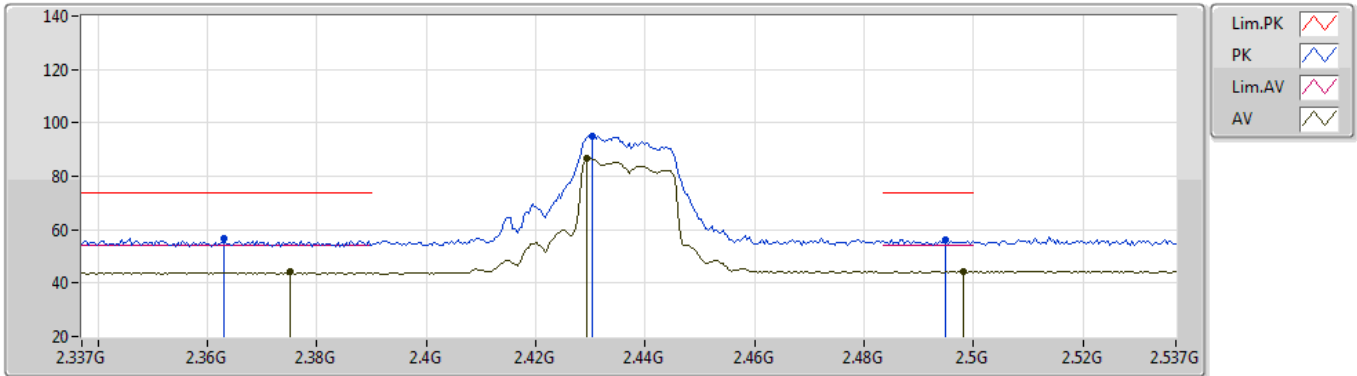


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3514G	44.07	54.00	-9.93	31.62	3	Vertical	140	1.47	-	12.45	27.79	3.83	-
AV	2.4306G	79.20	Inf	-Inf	31.55	3	Vertical	140	1.47	-	47.65	27.60	3.95	-
AV	2.493G	44.40	54.00	-9.60	31.64	3	Vertical	140	1.47	-	12.76	27.60	4.04	-
PK	2.3798G	56.10	74.00	-17.90	31.55	3	Vertical	140	1.47	-	24.55	27.68	3.87	-
PK	2.431G	87.64	Inf	-Inf	31.55	3	Vertical	140	1.47	-	56.09	27.60	3.95	-
PK	2.4986G	56.73	74.00	-17.27	31.65	3	Vertical	140	1.47	-	25.08	27.60	4.05	-

802.11g_Nss1,(6Mbps)_2TX

05/11/2020

2437MHz_TX

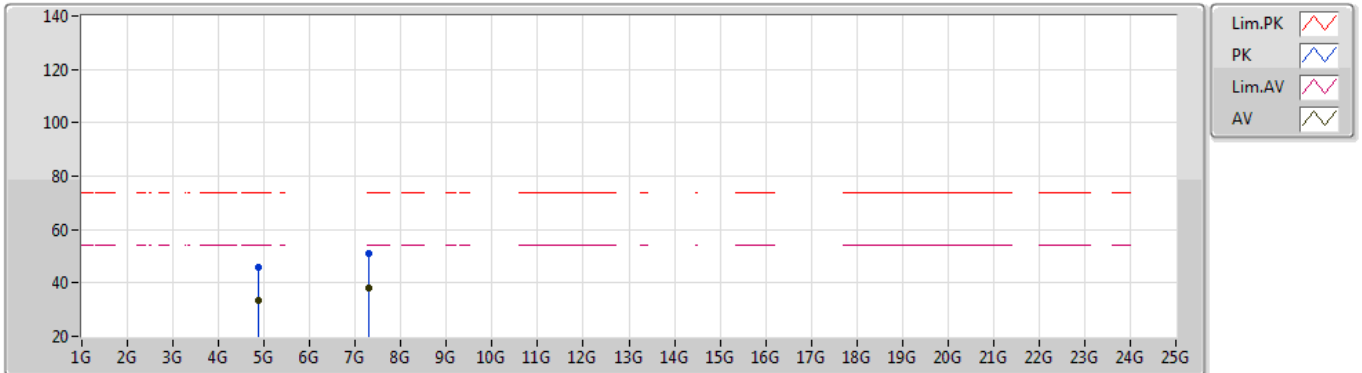


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.375G	44.07	54.00	-9.93	31.56	3	Horizontal	68	1.50	-	12.51	27.70	3.86	-
AV	2.4294G	86.67	Inf	-Inf	31.54	3	Horizontal	68	1.50	-	55.13	27.60	3.94	-
AV	2.4982G	44.40	54.00	-9.60	31.65	3	Horizontal	68	1.50	-	12.75	27.60	4.05	-
PK	2.363G	56.77	74.00	-17.23	31.59	3	Horizontal	68	1.50	-	25.18	27.75	3.84	-
PK	2.4302G	95.10	Inf	-Inf	31.55	3	Horizontal	68	1.50	-	63.55	27.60	3.95	-
PK	2.495G	56.29	74.00	-17.71	31.64	3	Horizontal	68	1.50	-	24.65	27.60	4.04	-

802.11g_Nss1,(6Mbps)_2TX

05/11/2020

2437MHz_TX

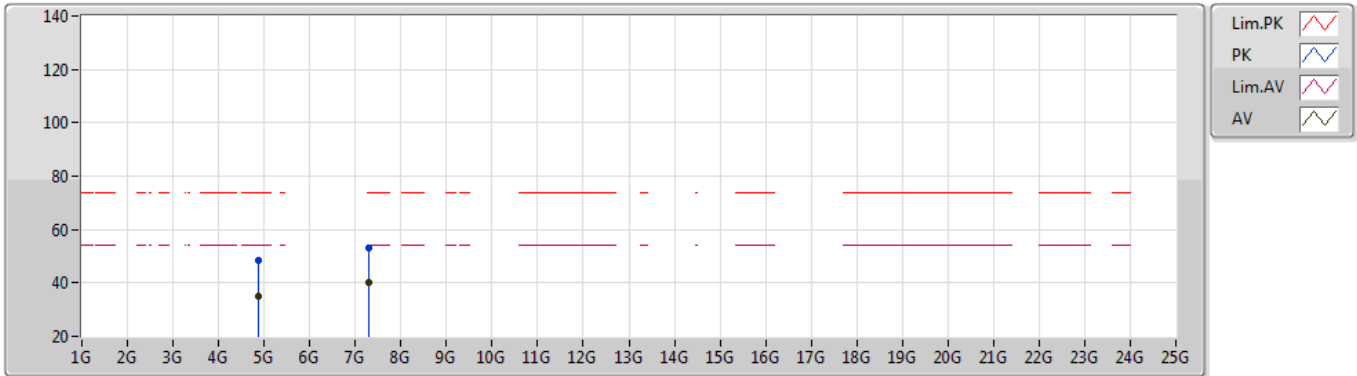


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87276G	33.45	54.00	-20.55	1.66	3	Vertical	86	2.69	-	31.79	31.25	5.34	34.93
AV	7.30672G	38.14	54.00	-15.86	8.21	3	Vertical	84	1.89	-	29.93	36.59	6.80	35.18
PK	4.87316G	46.01	74.00	-27.99	1.66	3	Vertical	86	2.69	-	44.35	31.25	5.34	34.93
PK	7.30706G	50.83	74.00	-23.17	8.21	3	Vertical	84	1.89	-	42.62	36.59	6.80	35.18

802.11g_Nss1,(6Mbps)_2TX

05/11/2020

2437MHz_TX

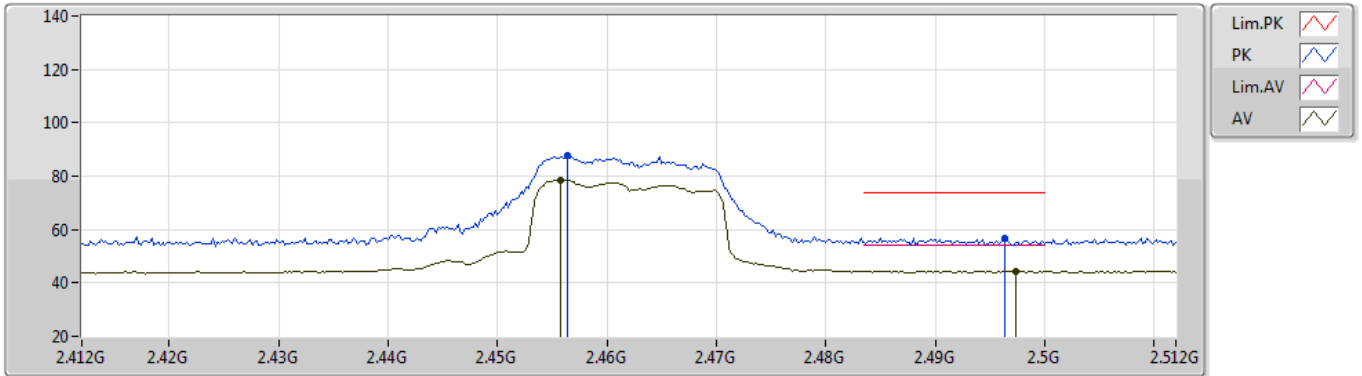


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87296G	35.12	54.00	-18.88	1.66	3	Horizontal	213	1.01	-	33.46	31.25	5.34	34.93
AV	7.30864G	40.34	54.00	-13.66	8.20	3	Horizontal	322	1.00	-	32.14	36.58	6.80	35.18
PK	4.87388G	48.24	74.00	-25.76	1.66	3	Horizontal	213	1.01	-	46.58	31.25	5.34	34.93
PK	7.30914G	53.33	74.00	-20.67	8.20	3	Horizontal	322	1.00	-	45.13	36.58	6.80	35.18

802.11g_Nss1,(6Mbps)_2TX

05/11/2020

2462MHz_TX

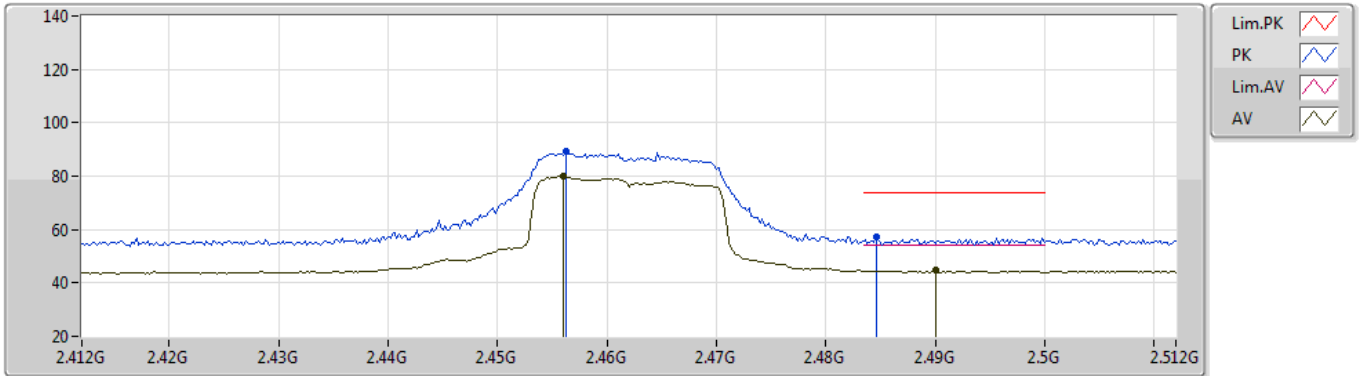


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4558G	78.45	Inf	-Inf	31.58	3	Vertical	125	2.53	-	46.87	27.60	3.98	-
AV	2.4974G	44.53	54.00	-9.47	31.65	3	Vertical	125	2.53	-	12.88	27.60	4.05	-
PK	2.4564G	87.94	Inf	-Inf	31.58	3	Vertical	125	2.53	-	56.36	27.60	3.98	-
PK	2.4964G	56.96	74.00	-17.04	31.64	3	Vertical	125	2.53	-	25.32	27.60	4.04	-

802.11g_Nss1,(6Mbps)_2TX

05/11/2020

2462MHz_TX

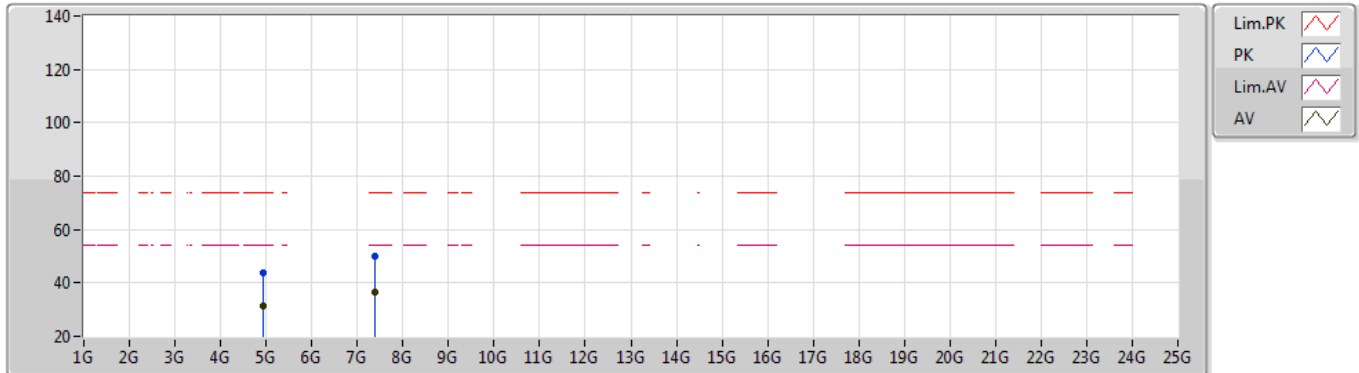


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.456G	80.01	Inf	-Inf	31.58	3	Horizontal	329	1.61	-	48.43	27.60	3.98	-
AV	2.49G	44.59	54.00	-9.41	31.64	3	Horizontal	329	1.61	-	12.95	27.60	4.04	-
PK	2.4562G	89.55	Inf	-Inf	31.58	3	Horizontal	329	1.61	-	57.97	27.60	3.98	-
PK	2.4846G	57.26	74.00	-16.74	31.63	3	Horizontal	329	1.61	-	25.63	27.60	4.03	-

802.11g_Nss1,(6Mbps)_2TX

05/11/2020

2462MHz_TX

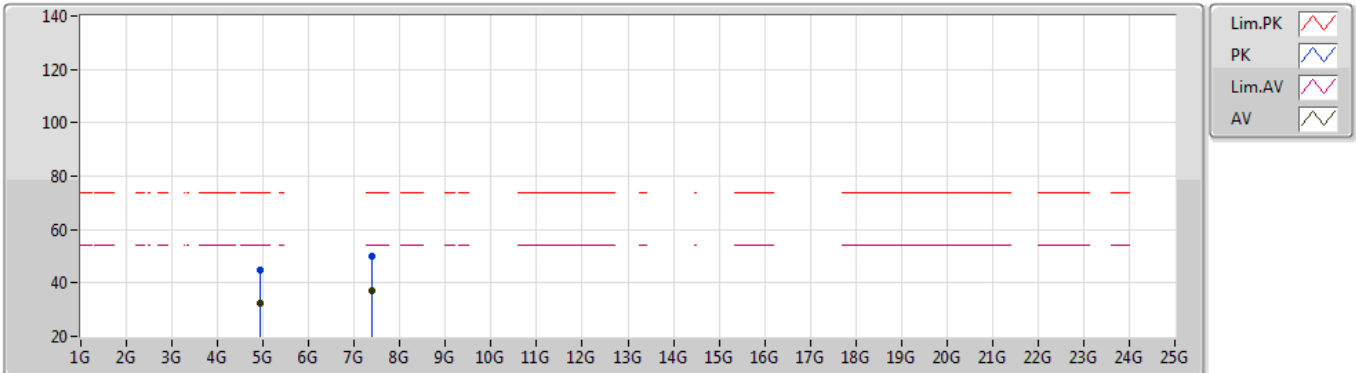


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92128G	31.52	54.00	-22.48	1.71	3	Vertical	252	2.54	-	29.81	31.29	5.36	34.94
AV	7.38634G	36.56	54.00	-17.44	8.05	3	Vertical	86	1.50	-	28.51	36.43	6.80	35.18
PK	4.92552G	43.68	74.00	-30.32	1.72	3	Vertical	252	2.54	-	41.96	31.30	5.36	34.94
PK	7.38548G	50.23	74.00	-23.77	8.05	3	Vertical	86	1.50	-	42.18	36.43	6.80	35.18

802.11g_Nss1,(6Mbps)_2TX

05/11/2020

2462MHz_TX

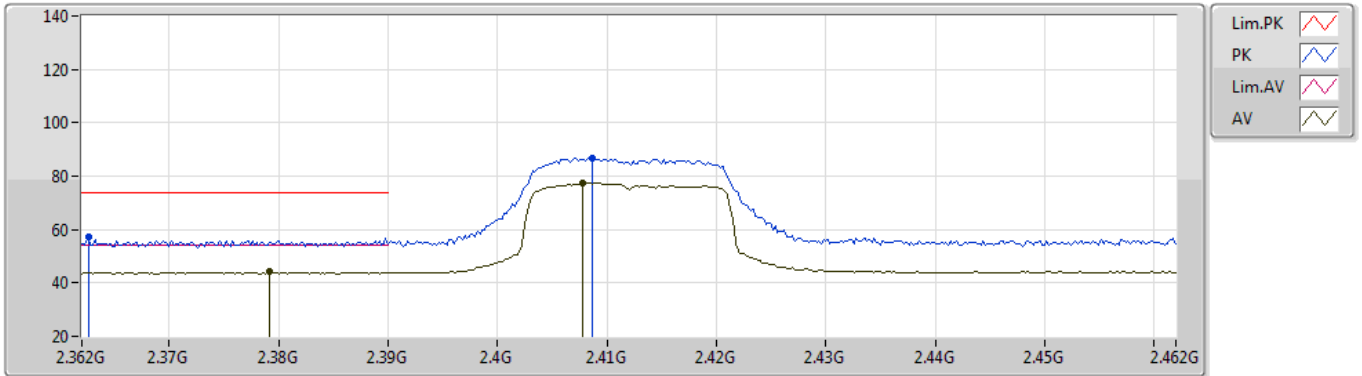


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92142G	32.22	54.00	-21.78	1.71	3	Horizontal	289	1.04	-	30.51	31.29	5.36	34.94
AV	7.3852G	37.25	54.00	-16.75	8.05	3	Horizontal	323	1.01	-	29.20	36.43	6.80	35.18
PK	4.9225G	44.62	74.00	-29.38	1.71	3	Horizontal	289	1.04	-	42.91	31.29	5.36	34.94
PK	7.38636G	50.01	74.00	-23.99	8.05	3	Horizontal	323	1.01	-	41.96	36.43	6.80	35.18

802.11n HT20_Nss1,(MCS0)_2TX

05/11/2020

2412MHz_TX

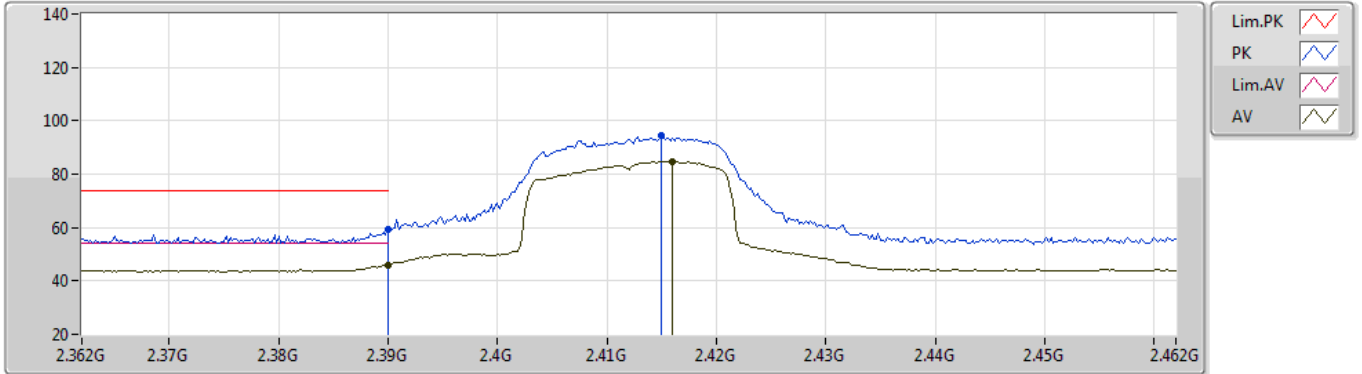


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3792G	44.18	54.00	-9.82	31.55	3	Vertical	299	1.15	-	12.63	27.68	3.87	-
AV	2.4078G	77.63	Inf	-Inf	31.51	3	Vertical	299	1.15	-	46.12	27.60	3.91	-
PK	2.3626G	57.29	74.00	-16.71	31.59	3	Vertical	299	1.15	-	25.70	27.75	3.84	-
PK	2.4086G	86.80	Inf	-Inf	31.51	3	Vertical	299	1.15	-	55.29	27.60	3.91	-

802.11n HT20_Nss1,(MCS0)_2TX

05/11/2020

2412MHz_TX

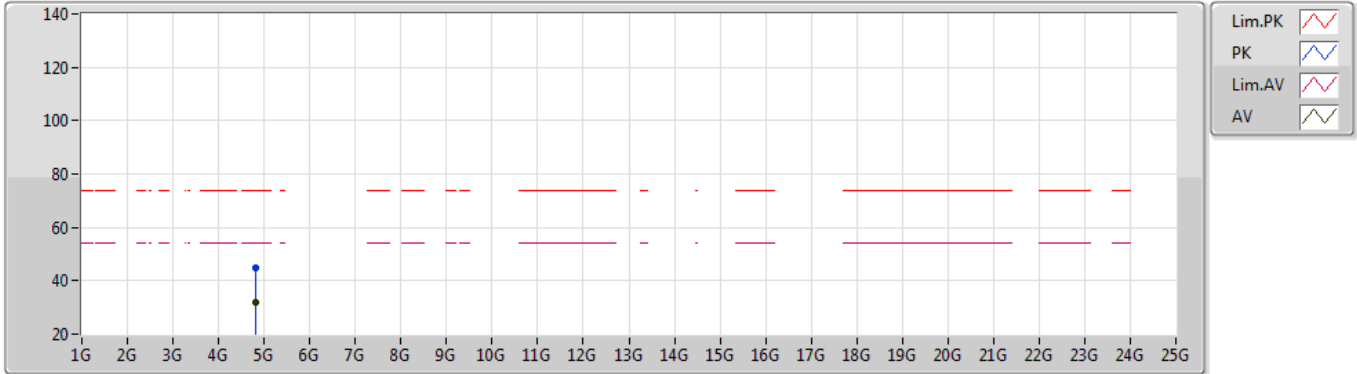


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	45.73	54.00	-8.27	31.52	3	Horizontal	69	1.25	-	14.21	27.64	3.88	-
AV	2.416G	84.69	Inf	-Inf	31.52	3	Horizontal	69	1.25	-	53.17	27.60	3.92	-
PK	2.39G	59.56	74.00	-14.44	31.52	3	Horizontal	69	1.25	-	28.04	27.64	3.88	-
PK	2.415G	94.44	Inf	-Inf	31.52	3	Horizontal	69	1.25	-	62.92	27.60	3.92	-

802.11n HT20_Nss1,(MCS0)_2TX

05/11/2020

2412MHz_TX

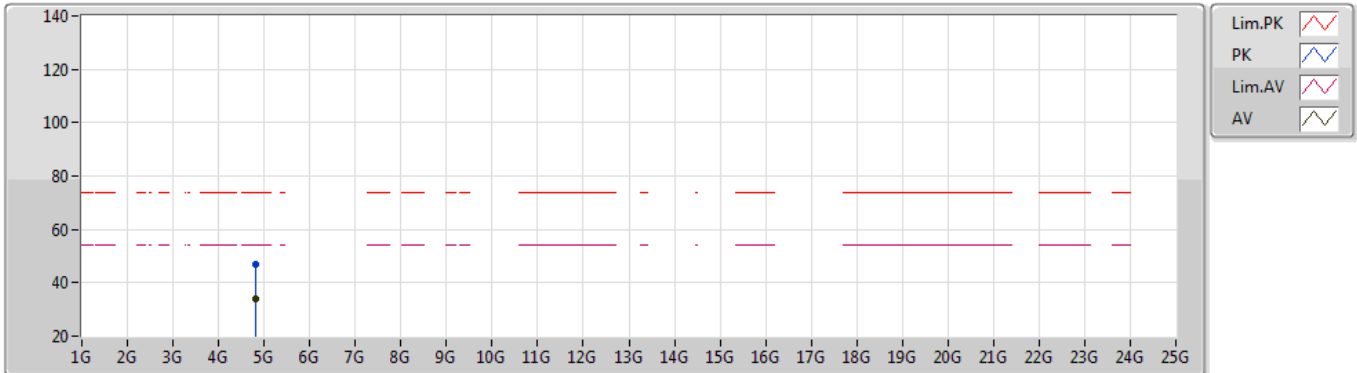


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82204G	32.04	54.00	-21.96	1.57	3	Vertical	78	2.09	-	30.47	31.19	5.31	34.93
PK	4.82276G	44.83	74.00	-29.17	1.57	3	Vertical	78	2.09	-	43.26	31.19	5.31	34.93

802.11n HT20_Nss1,(MCS0)_2TX

05/11/2020

2412MHz_TX

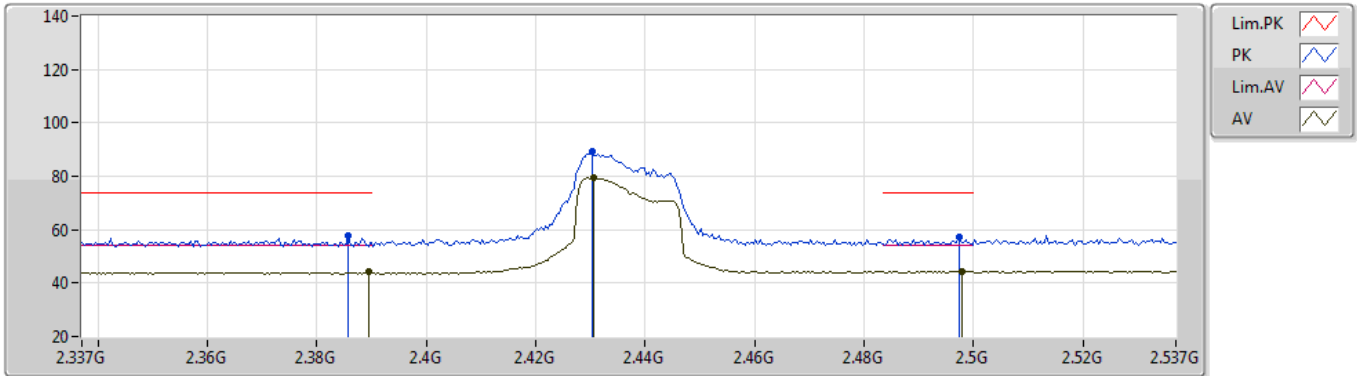


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82426G	34.16	54.00	-19.84	1.58	3	Horizontal	265	1.20	-	32.58	31.20	5.31	34.93
PK	4.82162G	46.64	74.00	-27.36	1.57	3	Horizontal	265	1.20	-	45.07	31.19	5.31	34.93

802.11n HT20_Nss1,(MCS0)_2TX

05/11/2020

2437MHz_TX

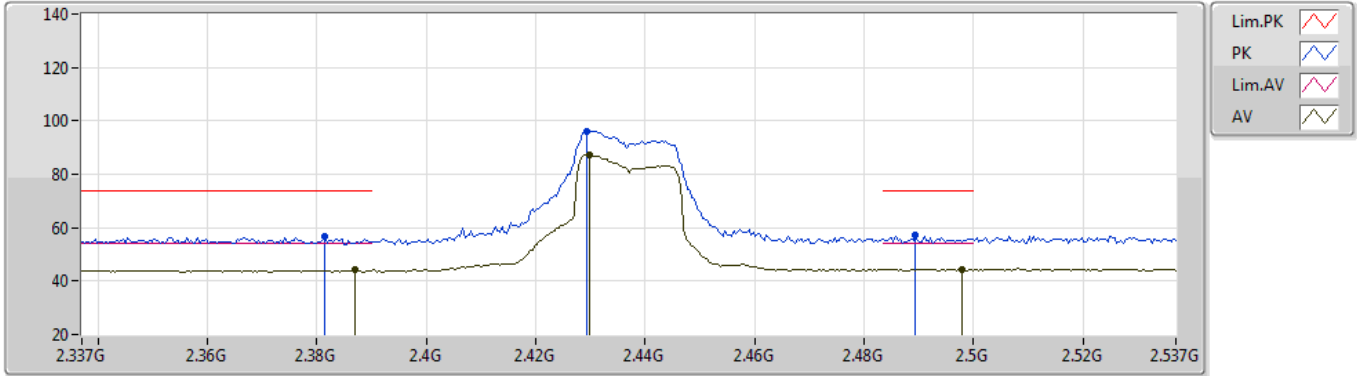


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	44.17	54.00	-9.83	31.52	3	Vertical	281	1.50	-	12.65	27.64	3.88	-
AV	2.4306G	79.42	Inf	-Inf	31.55	3	Vertical	281	1.50	-	47.87	27.60	3.95	-
AV	2.4978G	44.46	54.00	-9.54	31.65	3	Vertical	281	1.50	-	12.81	27.60	4.05	-
PK	2.3858G	57.52	74.00	-16.48	31.54	3	Vertical	281	1.50	-	25.98	27.66	3.88	-
PK	2.4302G	89.27	Inf	-Inf	31.55	3	Vertical	281	1.50	-	57.72	27.60	3.95	-
PK	2.4974G	57.02	74.00	-16.98	31.65	3	Vertical	281	1.50	-	25.37	27.60	4.05	-

802.11n HT20_Nss1,(MCS0)_2TX

05/11/2020

2437MHz_TX

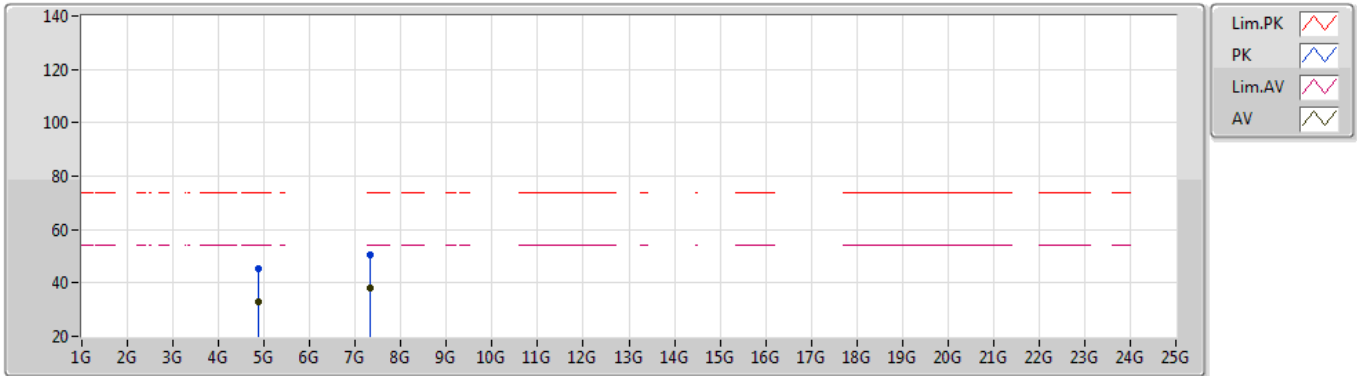


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.387G	44.08	54.00	-9.92	31.53	3	Horizontal	71	1.49	-	12.55	27.65	3.88	-
AV	2.4298G	87.28	Inf	-Inf	31.54	3	Horizontal	71	1.49	-	55.74	27.60	3.94	-
AV	2.4978G	44.36	54.00	-9.64	31.65	3	Horizontal	71	1.49	-	12.71	27.60	4.05	-
PK	2.3814G	56.81	74.00	-17.19	31.54	3	Horizontal	71	1.49	-	25.27	27.67	3.87	-
PK	2.4294G	96.29	Inf	-Inf	31.54	3	Horizontal	71	1.49	-	64.75	27.60	3.94	-
PK	2.4894G	57.24	74.00	-16.76	31.63	3	Horizontal	71	1.49	-	25.61	27.60	4.03	-

802.11n HT20_Nss1,(MCS0)_2TX

05/11/2020

2437MHz_TX

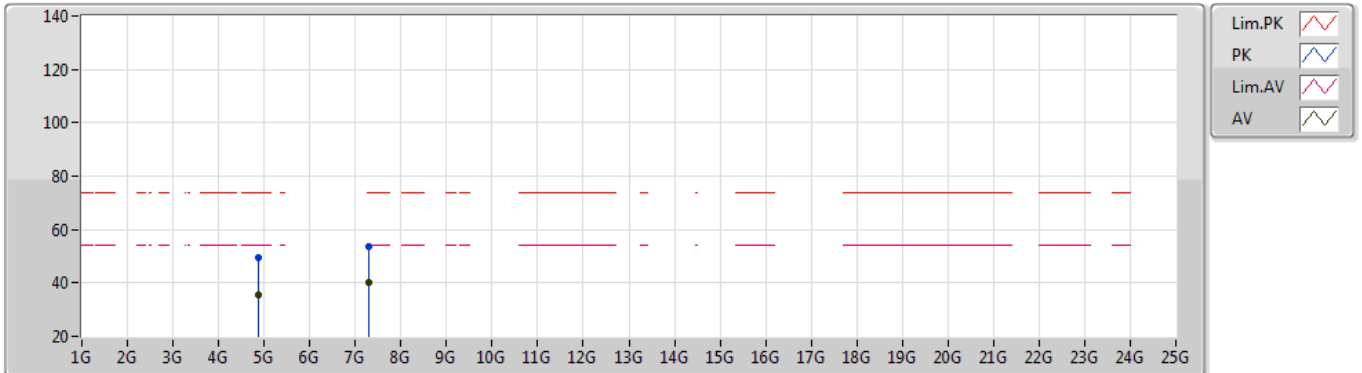


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87092G	32.97	54.00	-21.03	1.67	3	Vertical	346	2.44	-	31.30	31.26	5.34	34.93
AV	7.31144G	37.93	54.00	-16.07	8.20	3	Vertical	85	1.91	-	29.73	36.58	6.80	35.18
PK	4.87242G	45.50	74.00	-28.50	1.67	3	Vertical	346	2.44	-	43.83	31.26	5.34	34.93
PK	7.3128G	50.45	74.00	-23.55	8.19	3	Vertical	85	1.91	-	42.26	36.57	6.80	35.18

802.11n HT20_Nss1,(MCS0)_2TX

05/11/2020

2437MHz_TX

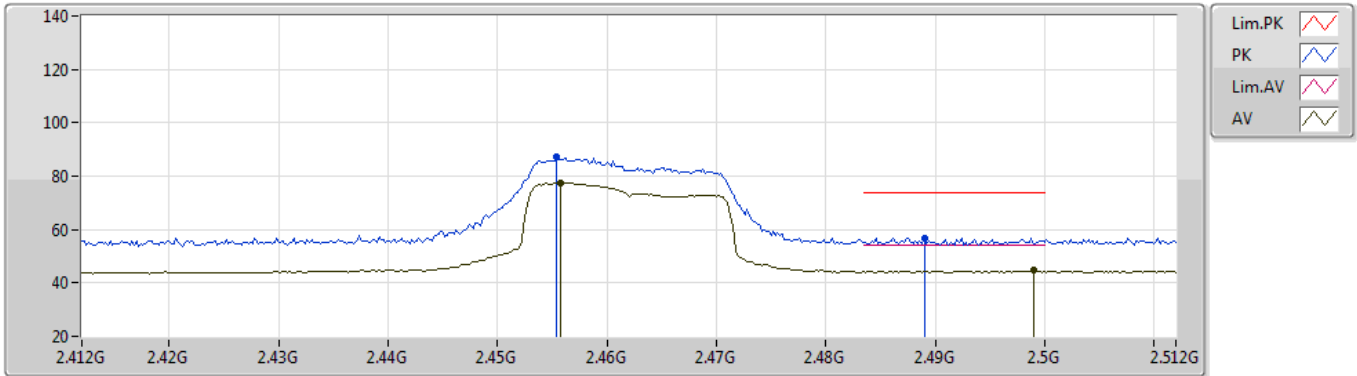


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87228G	35.34	54.00	-18.66	1.67	3	Horizontal	211	2.65	-	33.67	31.26	5.34	34.93
AV	7.30556G	40.27	54.00	-13.73	8.21	3	Horizontal	325	1.00	-	32.06	36.59	6.80	35.18
PK	4.8716G	49.29	74.00	-24.71	1.67	3	Horizontal	211	2.65	-	47.62	31.26	5.34	34.93
PK	7.30528G	53.64	74.00	-20.36	8.21	3	Horizontal	325	1.00	-	45.43	36.59	6.80	35.18

802.11n HT20_Nss1,(MCS0)_2TX

05/11/2020

2462MHz_TX

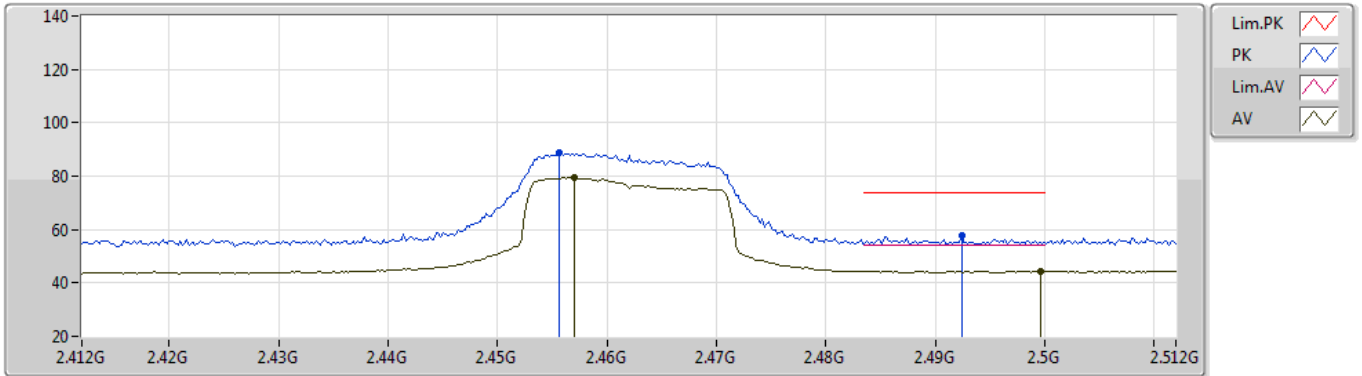


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4558G	77.66	Inf	-Inf	31.58	3	Vertical	128	2.54	-	46.08	27.60	3.98	-
AV	2.499G	44.58	54.00	-9.42	31.65	3	Vertical	128	2.54	-	12.93	27.60	4.05	-
PK	2.4554G	87.12	Inf	-Inf	31.58	3	Vertical	128	2.54	-	55.54	27.60	3.98	-
PK	2.489G	56.88	74.00	-17.12	31.63	3	Vertical	128	2.54	-	25.25	27.60	4.03	-

802.11n HT20_Nss1,(MCS0)_2TX

05/11/2020

2462MHz_TX

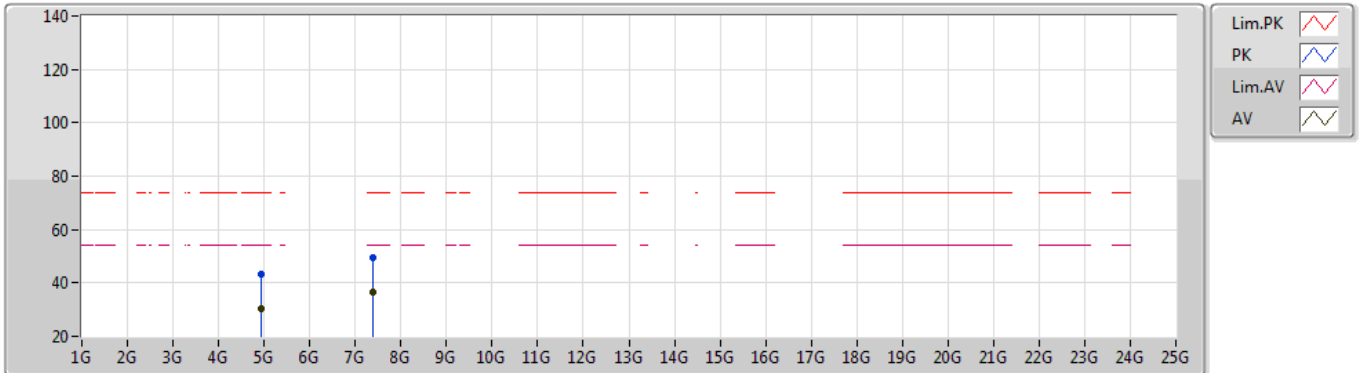


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.457G	79.47	Inf	-Inf	31.59	3	Horizontal	322	1.61	-	47.88	27.60	3.99	-
AV	2.4996G	44.55	54.00	-9.45	31.65	3	Horizontal	322	1.61	-	12.90	27.60	4.05	-
PK	2.4556G	88.81	Inf	-Inf	31.58	3	Horizontal	322	1.61	-	57.23	27.60	3.98	-
PK	2.4924G	57.62	74.00	-16.38	31.64	3	Horizontal	322	1.61	-	25.98	27.60	4.04	-

802.11n HT20_Nss1,(MCS0)_2TX

05/11/2020

2462MHz_TX

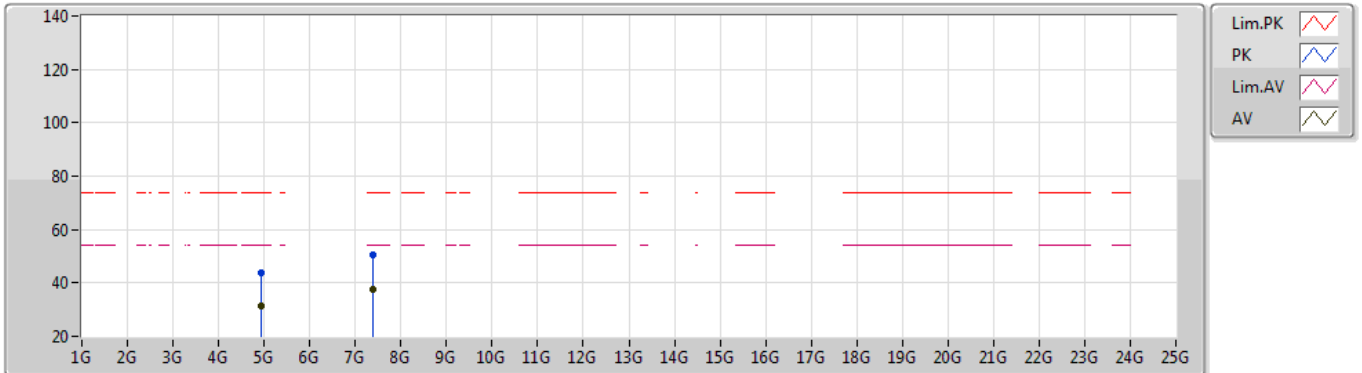


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92152G	30.49	54.00	-23.51	1.71	3	Vertical	337	1.61	-	28.78	31.29	5.36	34.94
AV	7.3878G	36.39	54.00	-17.61	8.04	3	Vertical	100	1.50	-	28.35	36.42	6.80	35.18
PK	4.92248G	43.33	74.00	-30.67	1.71	3	Vertical	337	1.61	-	41.62	31.29	5.36	34.94
PK	7.39532G	49.29	74.00	-24.71	8.03	3	Vertical	100	1.50	-	41.26	36.41	6.80	35.18

802.11n HT20_Nss1,(MCS0)_2TX

05/11/2020

2462MHz_TX

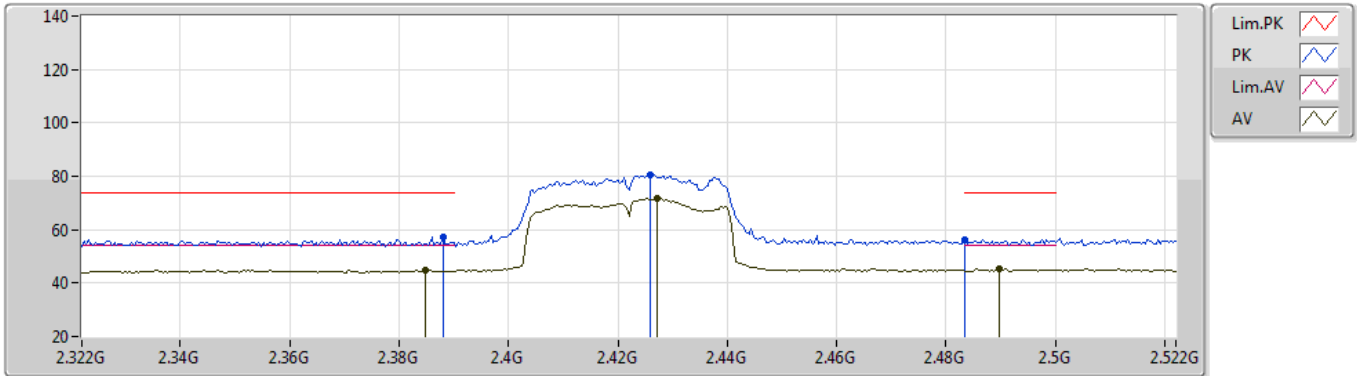


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92016G	31.14	54.00	-22.86	1.70	3	Horizontal	213	2.70	-	29.44	31.28	5.36	34.94
AV	7.3824G	37.38	54.00	-16.62	8.06	3	Horizontal	319	1.00	-	29.32	36.44	6.80	35.18
PK	4.92512G	43.92	74.00	-30.08	1.72	3	Horizontal	213	2.70	-	42.20	31.30	5.36	34.94
PK	7.38028G	50.45	74.00	-23.55	8.06	3	Horizontal	319	1.00	-	42.39	36.44	6.80	35.18

802.11n HT40_Nss1,(MCS0)_2TX

05/11/2020

2422MHz_TX

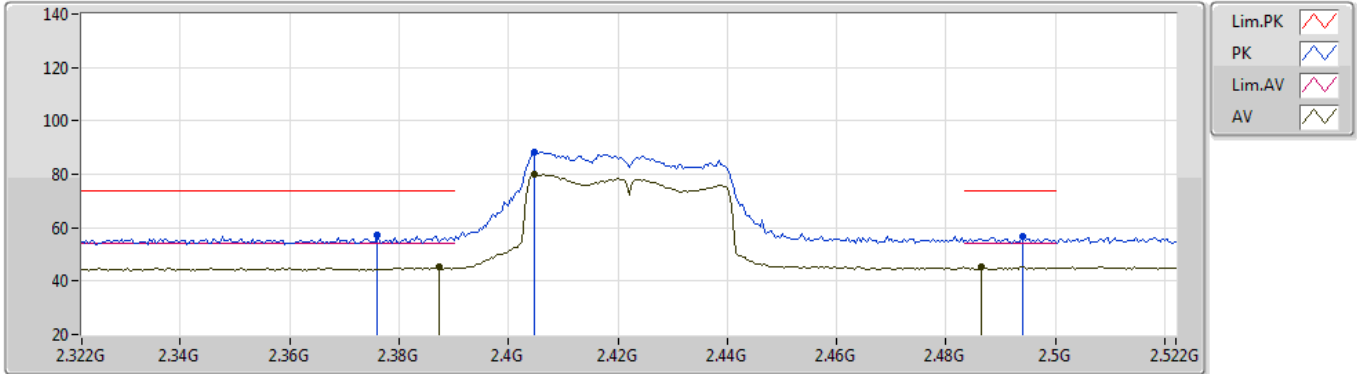


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3848G	44.90	54.00	-9.10	31.54	3	Vertical	279	1.15	-	13.36	27.66	3.88	-
AV	2.4272G	71.85	Inf	-Inf	31.54	3	Vertical	279	1.15	-	40.31	27.60	3.94	-
AV	2.4896G	45.41	54.00	-8.59	31.63	3	Vertical	279	1.15	-	13.78	27.60	4.03	-
PK	2.388G	57.17	74.00	-16.83	31.53	3	Vertical	279	1.15	-	25.64	27.65	3.88	-
PK	2.426G	80.66	Inf	-Inf	31.54	3	Vertical	279	1.15	-	49.12	27.60	3.94	-
PK	2.4835G	56.26	74.00	-17.74	31.63	3	Vertical	279	1.15	-	24.63	27.60	4.03	-

802.11n HT40_Nss1,(MCS0)_2TX

05/11/2020

2422MHz_TX

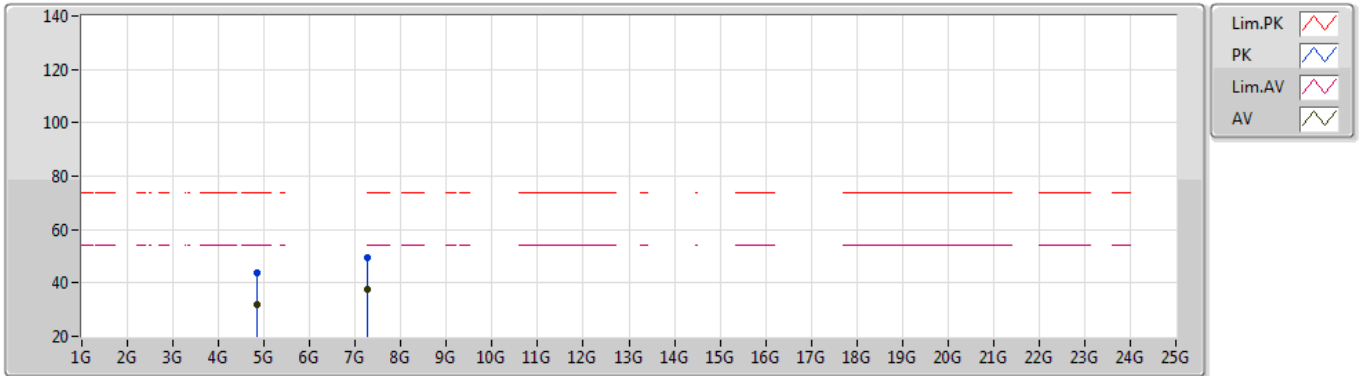


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3872G	45.17	54.00	-8.83	31.53	3	Horizontal	67	1.26	-	13.64	27.65	3.88	-
AV	2.4048G	79.81	Inf	-Inf	31.51	3	Horizontal	67	1.26	-	48.30	27.60	3.91	-
AV	2.4864G	45.18	54.00	-8.82	31.63	3	Horizontal	67	1.26	-	13.55	27.60	4.03	-
PK	2.376G	57.09	74.00	-16.91	31.56	3	Horizontal	67	1.26	-	25.53	27.70	3.86	-
PK	2.4048G	88.47	Inf	-Inf	31.51	3	Horizontal	67	1.26	-	56.96	27.60	3.91	-
PK	2.494G	56.54	74.00	-17.46	31.64	3	Horizontal	67	1.26	-	24.90	27.60	4.04	-

802.11n HT40_Nss1,(MCS0)_2TX

05/11/2020

2422MHz_TX

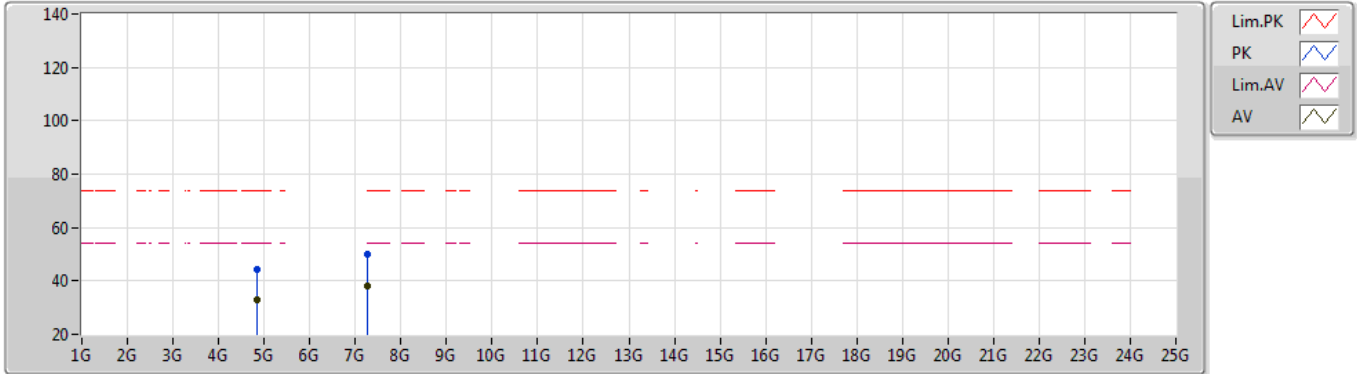


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.84502G	31.83	54.00	-22.17	1.67	3	Vertical	349	1.50	-	30.16	31.28	5.32	34.93
AV	7.26451G	37.67	54.00	-16.33	8.15	3	Vertical	360	1.50	-	29.52	36.53	6.80	35.18
PK	4.8428G	43.83	74.00	-30.17	1.66	3	Vertical	349	1.50	-	42.17	31.27	5.32	34.93
PK	7.26741G	49.73	74.00	-24.27	8.15	3	Vertical	360	1.50	-	41.58	36.53	6.80	35.18

802.11n HT40_Nss1,(MCS0)_2TX

05/11/2020

2422MHz_TX

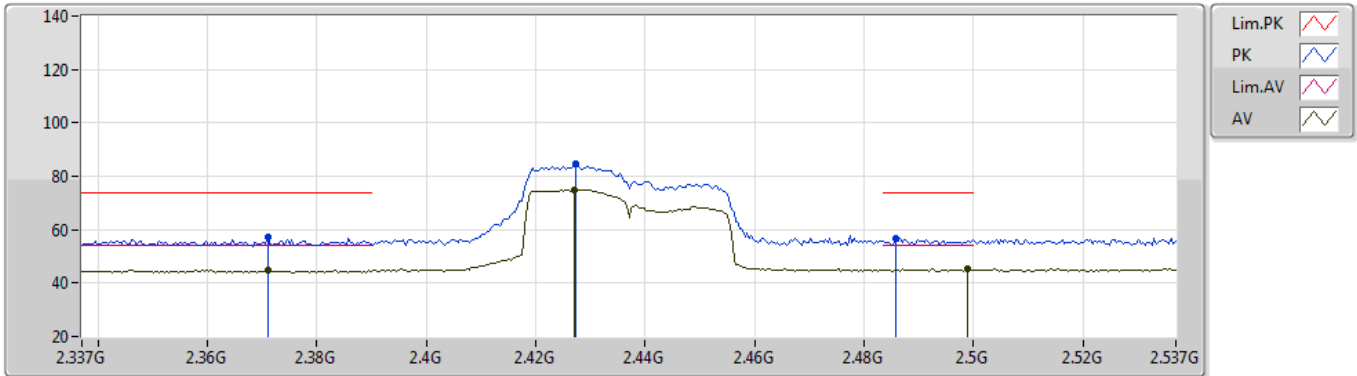


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.84232G	32.78	54.00	-21.22	1.66	3	Horizontal	261	1.00	-	31.12	31.27	5.32	34.93
AV	7.26387G	38.20	54.00	-15.80	8.15	3	Horizontal	318	1.00	-	30.05	36.53	6.80	35.18
PK	4.84004G	44.24	74.00	-29.76	1.65	3	Horizontal	261	1.00	-	42.59	31.26	5.32	34.93
PK	7.2658G	50.12	74.00	-23.88	8.15	3	Horizontal	318	1.00	-	41.97	36.53	6.80	35.18

802.11n HT40_Nss1,(MCS0)_2TX

05/11/2020

2437MHz_TX

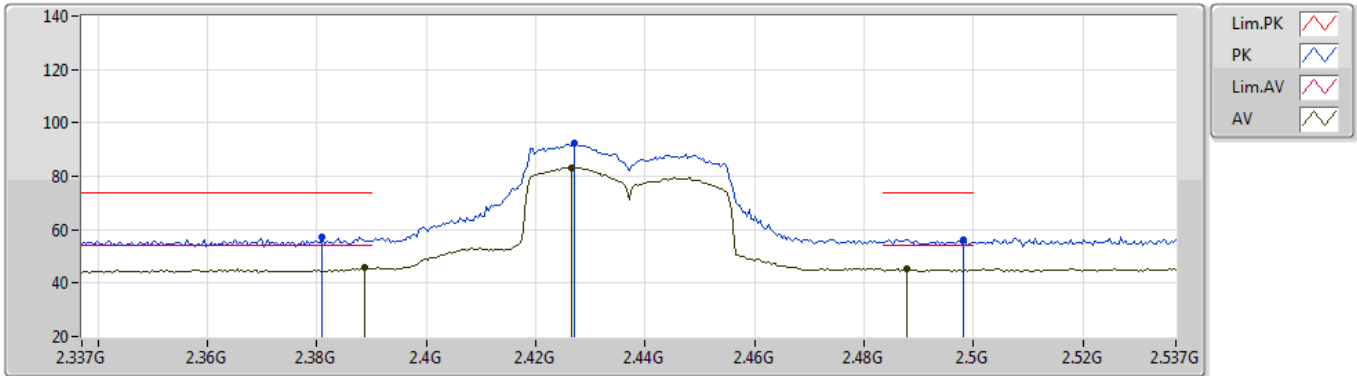


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.371G	44.86	54.00	-9.14	31.58	3	Vertical	282	1.47	-	13.28	27.72	3.86	-
AV	2.427G	74.77	Inf	-Inf	31.54	3	Vertical	282	1.47	-	43.23	27.60	3.94	-
AV	2.499G	45.31	54.00	-8.69	31.65	3	Vertical	282	1.47	-	13.66	27.60	4.05	-
PK	2.371G	57.09	74.00	-16.91	31.58	3	Vertical	282	1.47	-	25.51	27.72	3.86	-
PK	2.4274G	84.42	Inf	-Inf	31.54	3	Vertical	282	1.47	-	52.88	27.60	3.94	-
PK	2.4858G	56.61	74.00	-17.39	31.63	3	Vertical	282	1.47	-	24.98	27.60	4.03	-

802.11n HT40_Nss1,(MCS0)_2TX

05/11/2020

2437MHz_TX

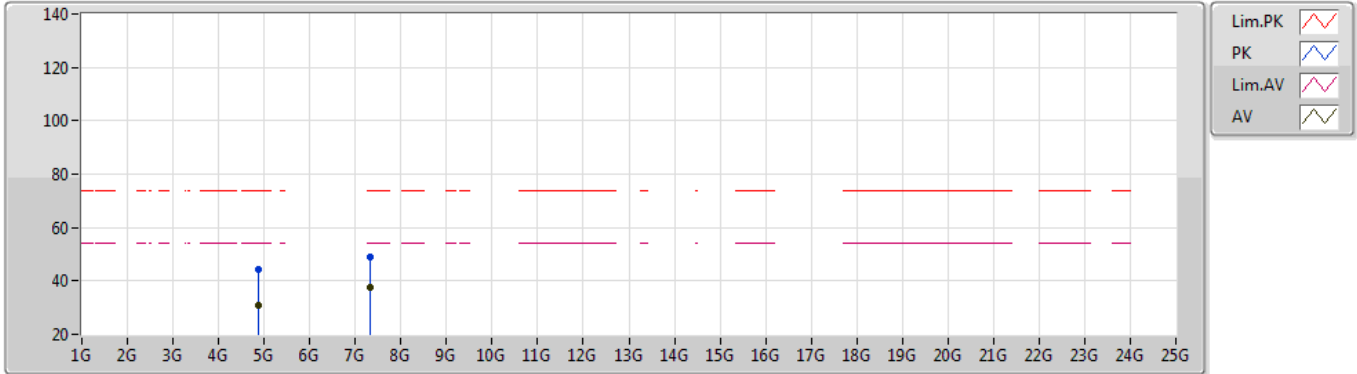


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3886G	45.68	54.00	-8.32	31.53	3	Horizontal	70	1.46	-	14.15	27.65	3.88	-
AV	2.4266G	83.33	Inf	-Inf	31.54	3	Horizontal	70	1.46	-	51.79	27.60	3.94	-
AV	2.4878G	45.11	54.00	-8.89	31.63	3	Horizontal	70	1.46	-	13.48	27.60	4.03	-
PK	2.381G	57.48	74.00	-16.52	31.55	3	Horizontal	70	1.46	-	25.93	27.68	3.87	-
PK	2.427G	92.17	Inf	-Inf	31.54	3	Horizontal	70	1.46	-	60.63	27.60	3.94	-
PK	2.4982G	56.40	74.00	-17.60	31.65	3	Horizontal	70	1.46	-	24.75	27.60	4.05	-

802.11n HT40_Nss1,(MCS0)_2TX

05/11/2020

2437MHz_TX

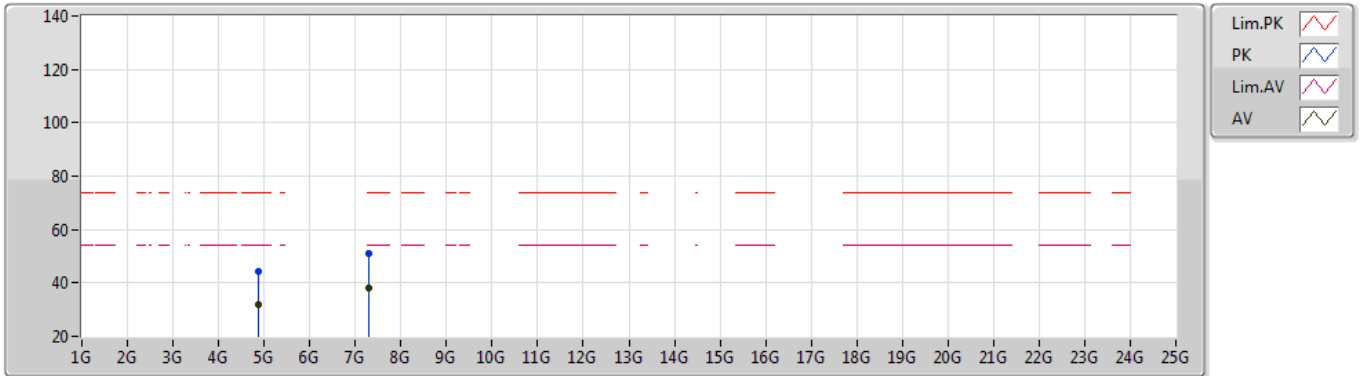


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87082G	31.11	54.00	-22.89	1.67	3	Vertical	324	2.53	-	29.44	31.26	5.34	34.93
AV	7.31156G	37.50	54.00	-16.50	8.20	3	Vertical	149	2.76	-	29.30	36.58	6.80	35.18
PK	4.87374G	44.41	74.00	-29.59	1.66	3	Vertical	324	2.53	-	42.75	31.25	5.34	34.93
PK	7.31282G	49.16	74.00	-24.84	8.19	3	Vertical	149	2.76	-	40.97	36.57	6.80	35.18

802.11n HT40_Nss1,(MCS0)_2TX

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2437MHz_TX

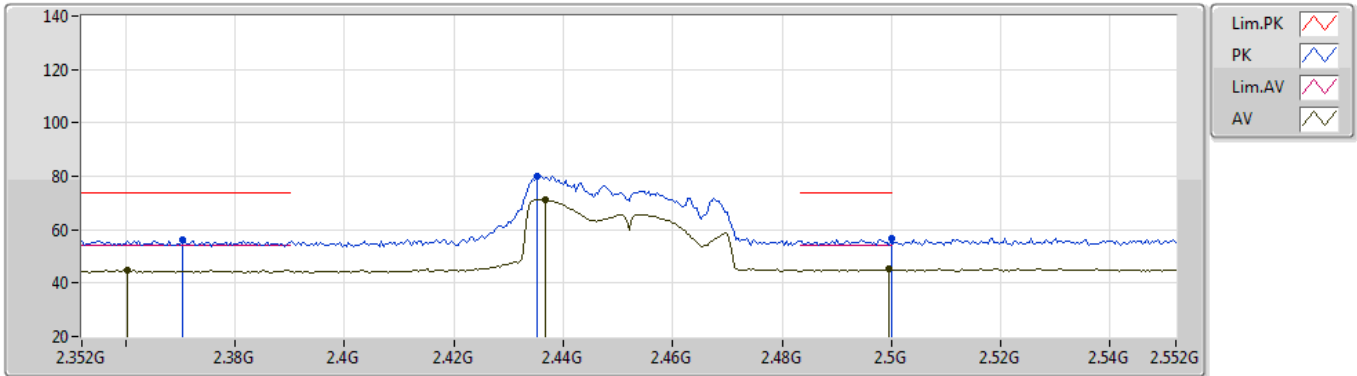


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87702G	32.12	54.00	-21.88	1.66	3	Horizontal	268	1.04	-	30.46	31.25	5.34	34.93
AV	7.30724G	38.06	54.00	-15.94	8.21	3	Horizontal	320	2.18	-	29.85	36.59	6.80	35.18
PK	4.87774G	44.08	74.00	-29.92	1.65	3	Horizontal	268	1.04	-	42.43	31.24	5.34	34.93
PK	7.31014G	51.12	74.00	-22.88	8.20	3	Horizontal	320	2.18	-	42.92	36.58	6.80	35.18

802.11n HT40_Nss1,(MCS0)_2TX

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2452MHz_TX

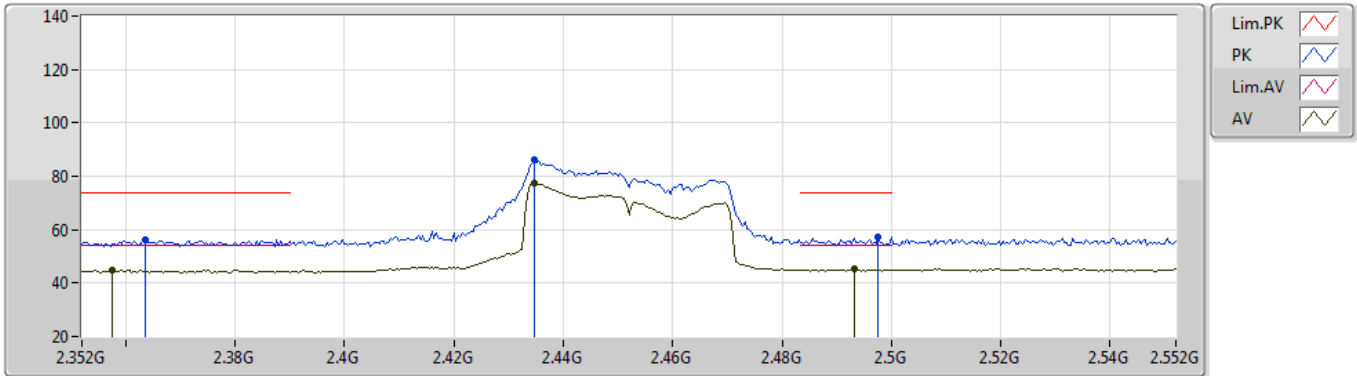


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3604G	44.74	54.00	-9.26	31.60	3	Vertical	279	1.13	-	13.14	27.76	3.84	-
AV	2.4368G	71.31	Inf	-Inf	31.56	3	Vertical	279	1.13	-	39.75	27.60	3.96	-
AV	2.4996G	45.09	54.00	-8.91	31.65	3	Vertical	279	1.13	-	13.44	27.60	4.05	-
PK	2.3704G	56.00	74.00	-18.00	31.58	3	Vertical	279	1.13	-	24.42	27.72	3.86	-
PK	2.4352G	80.09	Inf	-Inf	31.55	3	Vertical	279	1.13	-	48.54	27.60	3.95	-
PK	2.5G	56.78	74.00	-17.22	31.65	3	Vertical	279	1.13	-	25.13	27.60	4.05	-

802.11n HT40_Nss1,(MCS0)_2TX

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2452MHz_TX

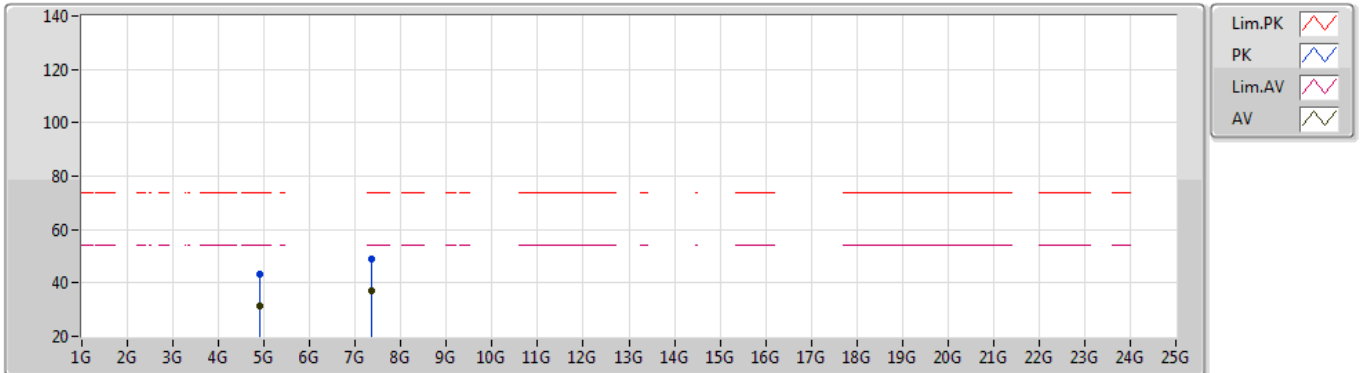


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3576G	45.01	54.00	-8.99	31.61	3	Horizontal	69	1.50	-	13.40	27.77	3.84	-
AV	2.4348G	77.25	Inf	-Inf	31.55	3	Horizontal	69	1.50	-	45.70	27.60	3.95	-
AV	2.4932G	45.17	54.00	-8.83	31.64	3	Horizontal	69	1.50	-	13.53	27.60	4.04	-
PK	2.3636G	56.30	74.00	-17.70	31.60	3	Horizontal	69	1.50	-	24.70	27.75	3.85	-
PK	2.4348G	85.98	Inf	-Inf	31.55	3	Horizontal	69	1.50	-	54.43	27.60	3.95	-
PK	2.4976G	57.26	74.00	-16.74	31.65	3	Horizontal	69	1.50	-	25.61	27.60	4.05	-

802.11n HT40_Nss1,(MCS0)_2TX

05/11/2020

2452MHz_TX

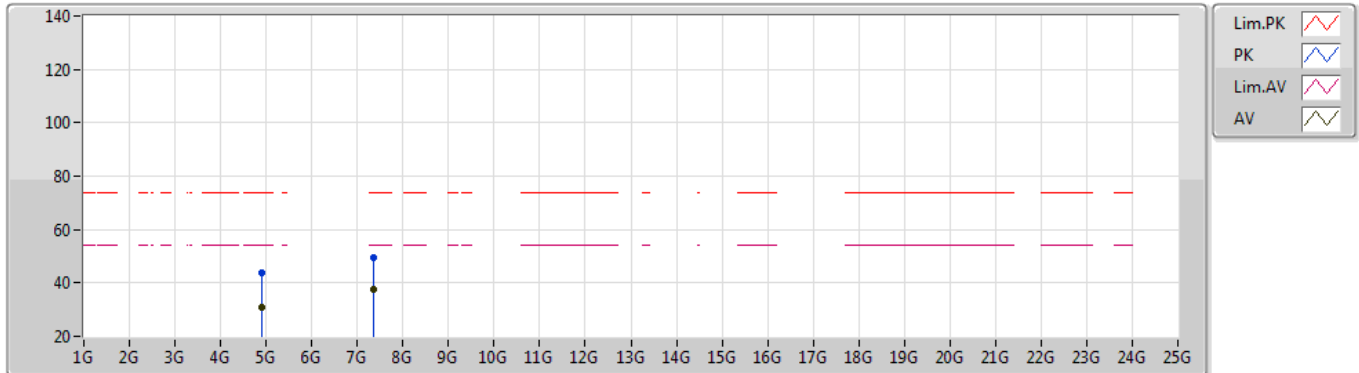


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.90036G	31.15	54.00	-22.85	1.62	3	Vertical	321	1.50	-	29.53	31.20	5.35	34.93
AV	7.3511G	37.31	54.00	-16.69	8.12	3	Vertical	311	2.85	-	29.19	36.50	6.80	35.18
PK	4.89916G	43.45	74.00	-30.55	1.62	3	Vertical	321	1.50	-	41.83	31.20	5.35	34.93
PK	7.35164G	48.95	74.00	-25.05	8.12	3	Vertical	311	2.85	-	40.83	36.50	6.80	35.18

802.11n HT40_Nss1,(MCS0)_2TX

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2452MHz_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	4.90572G	31.00	54.00	-23.00	1.64	3	Horizontal	4	1.50	-	29.36	31.22	5.35	34.93
AV	7.35676G	37.37	54.00	-16.63	8.11	3	Horizontal	176	1.00	-	29.26	36.49	6.80	35.18
PK	4.90732G	43.78	74.00	-30.22	1.65	3	Horizontal	4	1.50	-	42.13	31.23	5.35	34.93
PK	7.35488G	49.45	74.00	-24.55	8.11	3	Horizontal	176	1.00	-	41.34	36.49	6.80	35.18