

FCC Test Report

FCC ID : SWX-UAPFLEXHD
Equipment : UniFi FLEXHD
Brand Name : UBIQUITI
Model Name : UAP-FlexHD
Applicant/ : Ubiquiti Networks, Inc.
Manufacturer : 685 Third Avenue, 27th Floor New York,
New York 10017 USA
Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 25, 2018, and testing was started from Apr. 24, 2019 and completed on May 22, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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



Approved by: 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

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	FCC 15.203
3.1	15.207	AC Power-line Conducted Emissions	PASS	FCC 15.207
3.2	15.247(a)	DTS Bandwidth	PASS	≥500kHz
3.3	15.247(b)	Maximum Conducted Output Power	PASS	Power [dBm]: 30
3.4	15.247(e)	Power Spectral Density	PASS	PSD [dBm/3kHz]: 8
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	Non-Restricted Bands: > 30 dBc
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	Restricted Bands: FCC 15.209

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: Jackson Tsai

Report Producer: Michelle Tsai

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.	Port	Brand	Model Name	Antenna Type	Connector
1	1	-	-	internal antenna	i-Pex
2	2	-	-	internal antenna	i-Pex
3	3	-	-	internal antenna	i-Pex
4	4	-	-	internal antenna	i-Pex
5	1	-	-	internal antenna	fixed on board

Ant.	Port	Gain (dBi)		
		2.4G	BT	5G
1	1	1.6	-	4.0
2	2			
3	3	-	-	4.0
4	4			
5	1	-	1.6	-

Note 1: The EUT has four antennas.

For 2.4GHz function:

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

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

For BT function:

For Bluetooth mode (1TX/1RX)

Only Ant. 5 can be used as transmitting/receiving antenna.

For 5GHz function:

For IEEE 802.11a/n/ac mode (4TX/4RX):

Ant. 1 & Ant. 2 & Ant. 3 and Ant. 4 can be used as transmitting/receiving antenna.

1.1.3 EUT Information

Operational Condition				
EUT Power Type		From PoE		
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	0.987	0.06	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.936	0.29	2.831m	1k
802.11n HT20	0.928	0.32	3.997m	300
802.11n HT40	0.869	0.61	1.334m	1k

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
- ◆ KDB 558074 D01 v05r02
- ◆ KDB 662911 D01 v02r01

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.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Dexter Dai	25.1~26.3°C / 59~61%	04/May/2019~13/May/2019
Radiated	03CH03-HY	Jeff Lin	23.6~24.2°C / 51.2~52.1%	24/Apr/2019~20/May/2019
AC Conduction	CO01-HY	Jeff Lin	22.5~26.5°C / 51.3~56.5%	21/May/2019~22/May/2019

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)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	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	QA 0.0.1.58
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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	PoE 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	PoE Mode
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	Y Plane
	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA7O2609-06 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.4 Support Equipment

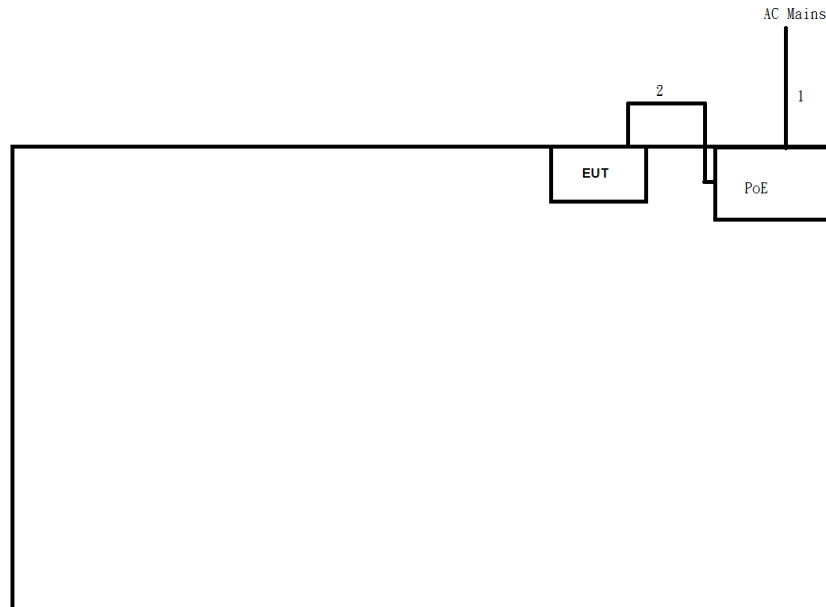
Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	PoE	UBIQUITI	GP-H480-050G	-

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	PoE (Remote)	UBIQUITI	GP-H480-050G	-

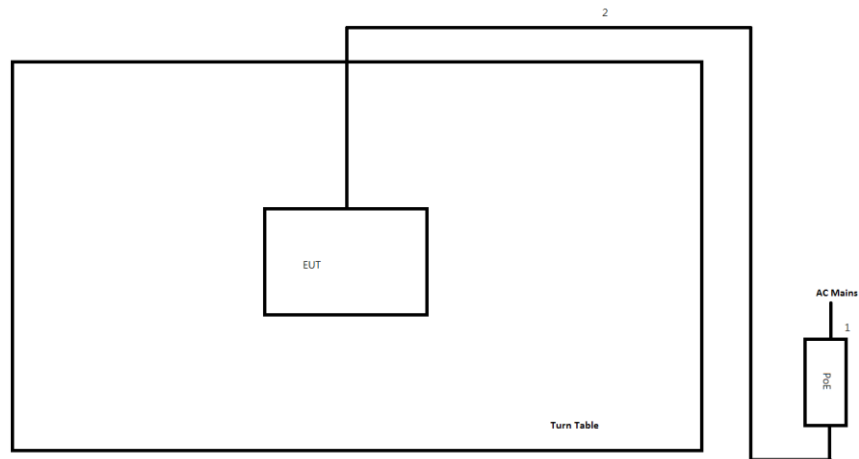
Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	AC Power Source	GW	APS-9102	-
4	PoE for Client	UBIQUITI	GP-H480-050G	-
5	PoE for EUT	UBIQUITI	GP-A240-050G	-

2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.0	-
2	LAN cable	No	0.8	-

Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.5	-
2	Lan cable	No	10.0	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

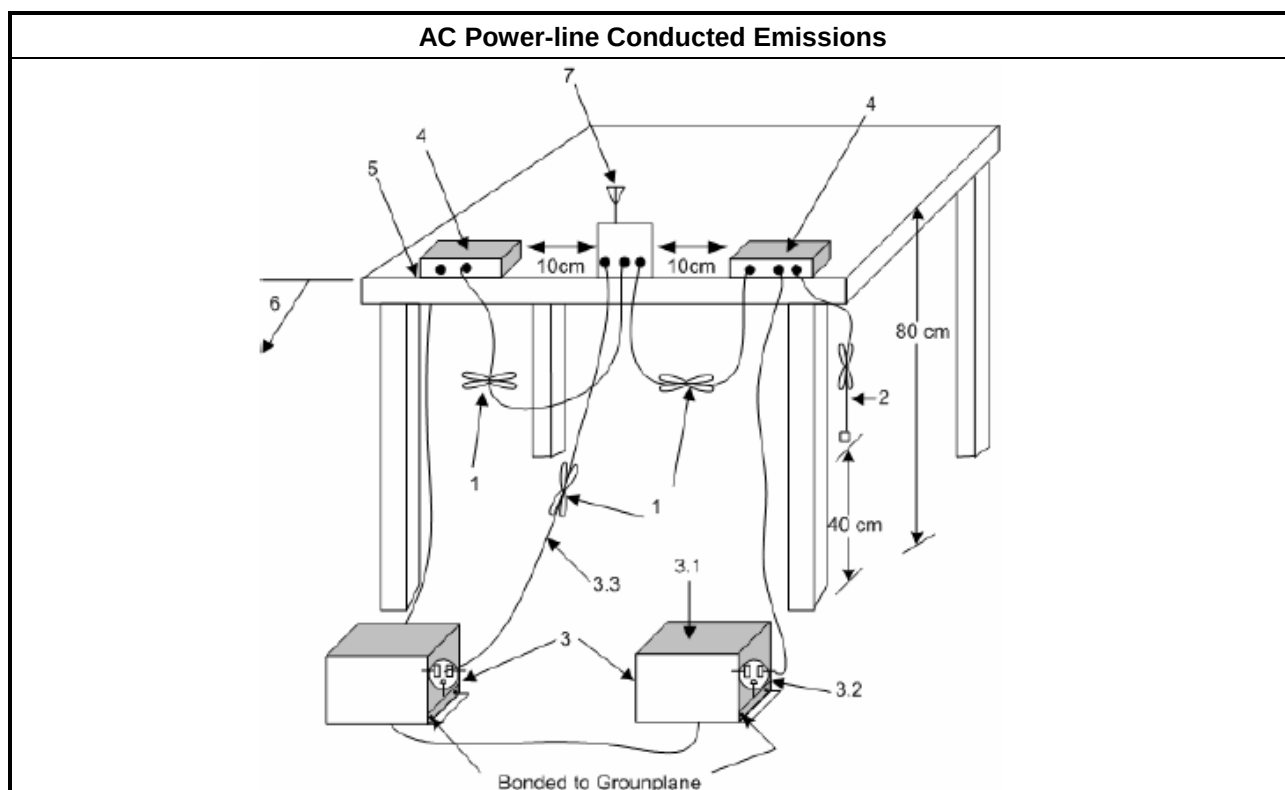
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 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.

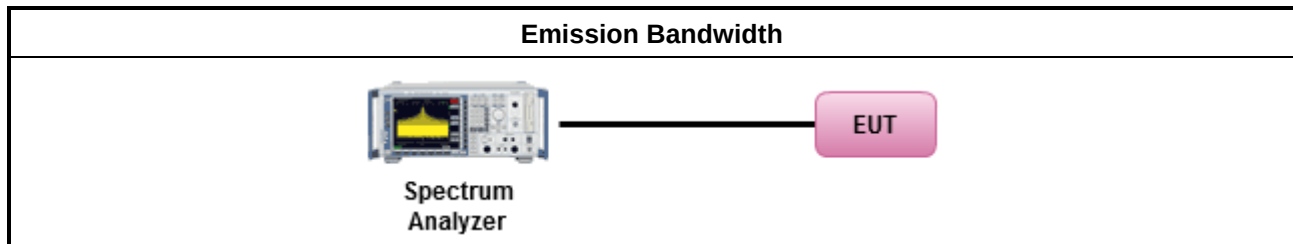
3.2.2 Measuring Instruments

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 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.		

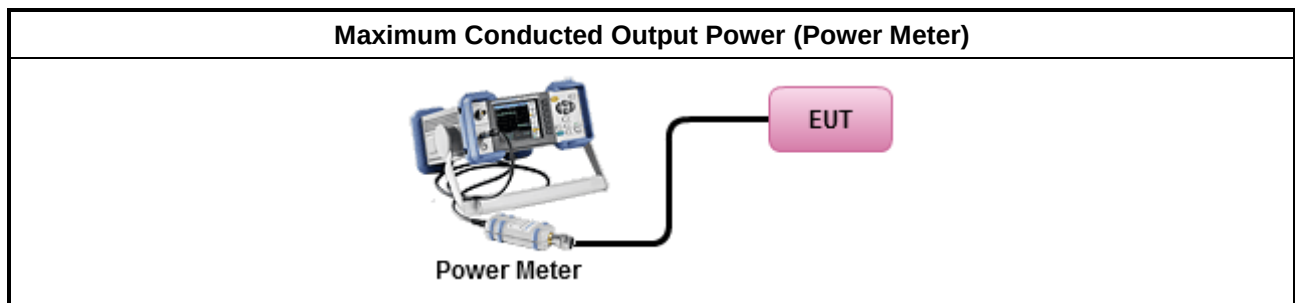
3.3.2 Measuring Instruments

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

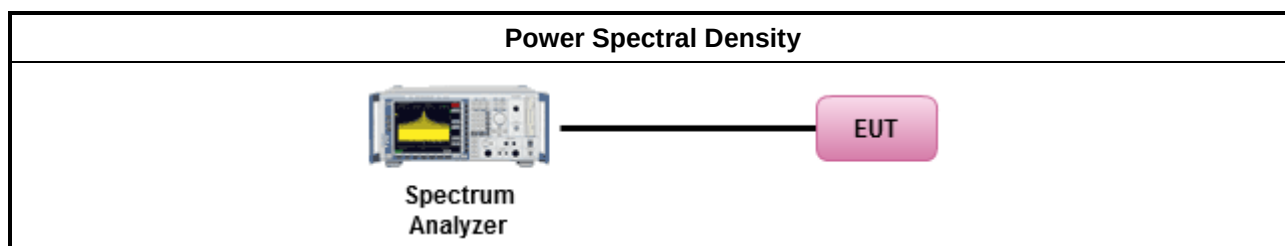
3.4.2 Measuring Instruments

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) Method PKPSD.
▪	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 PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

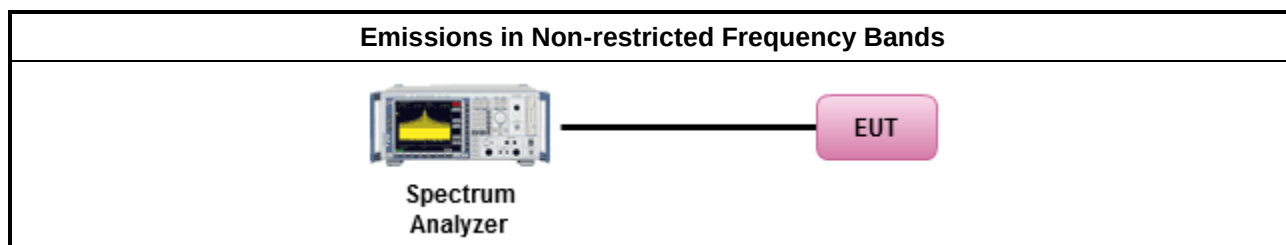
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as 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.

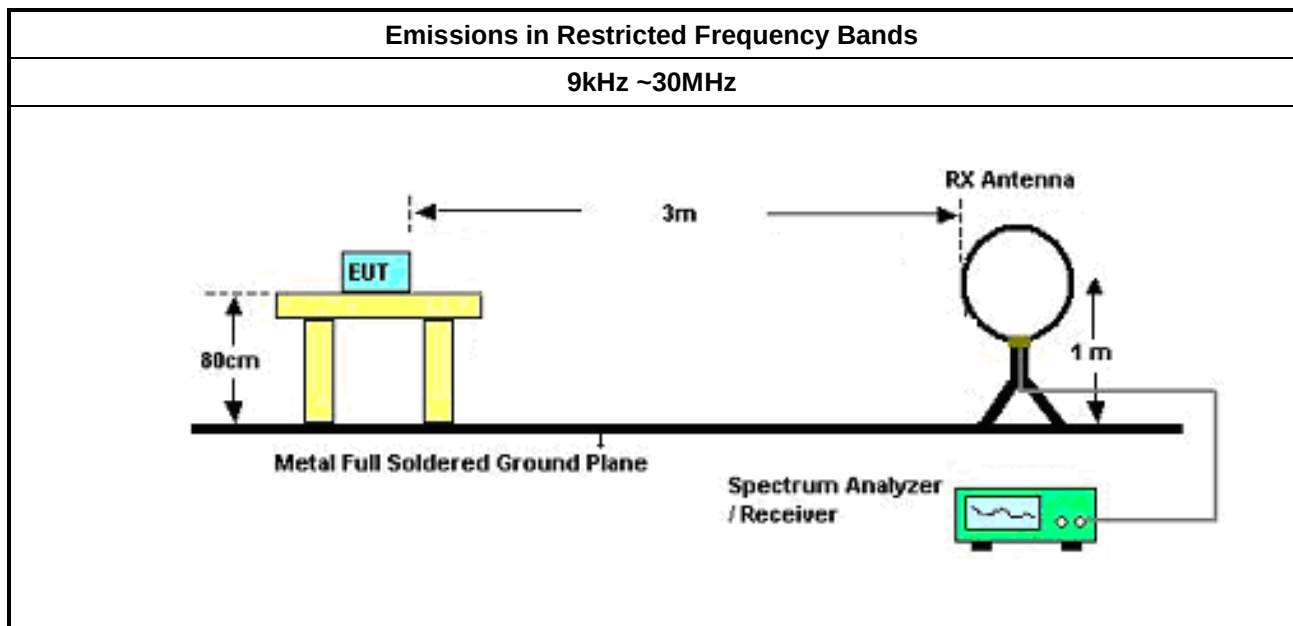
3.6.2 Measuring Instruments

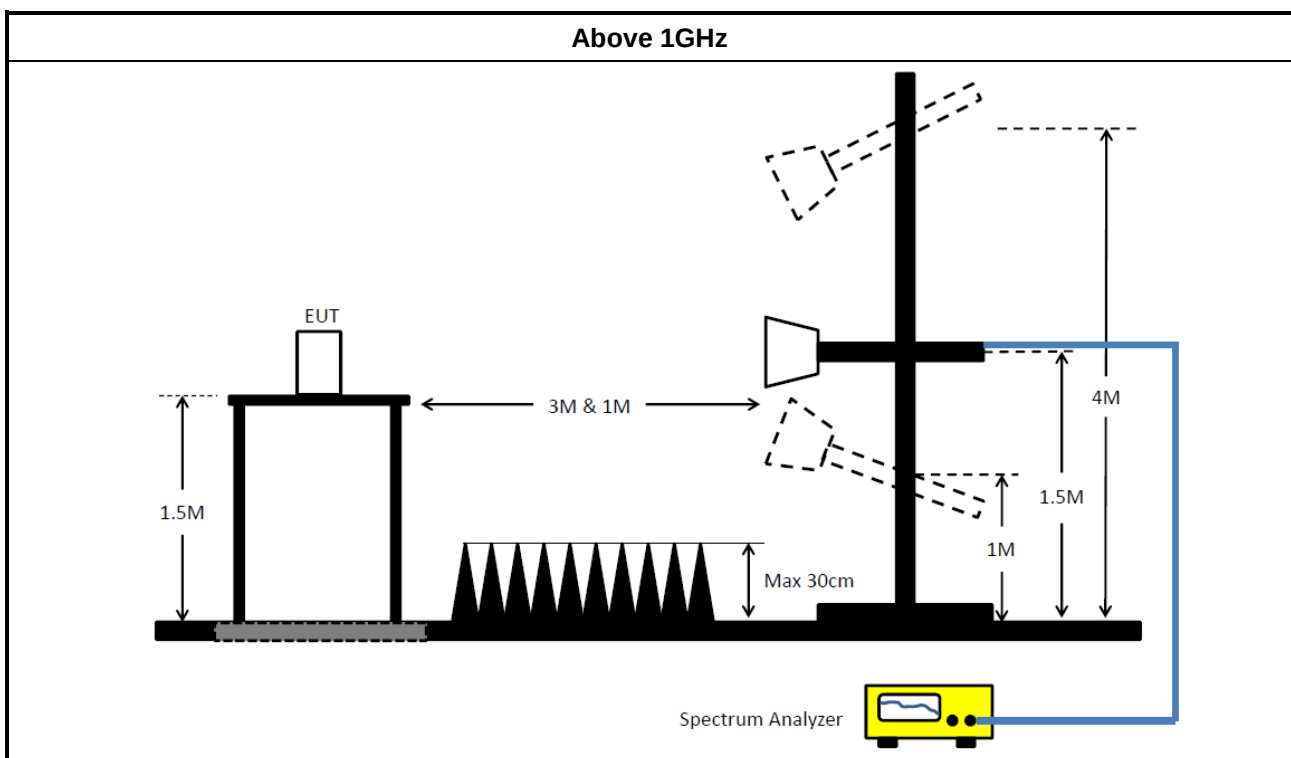
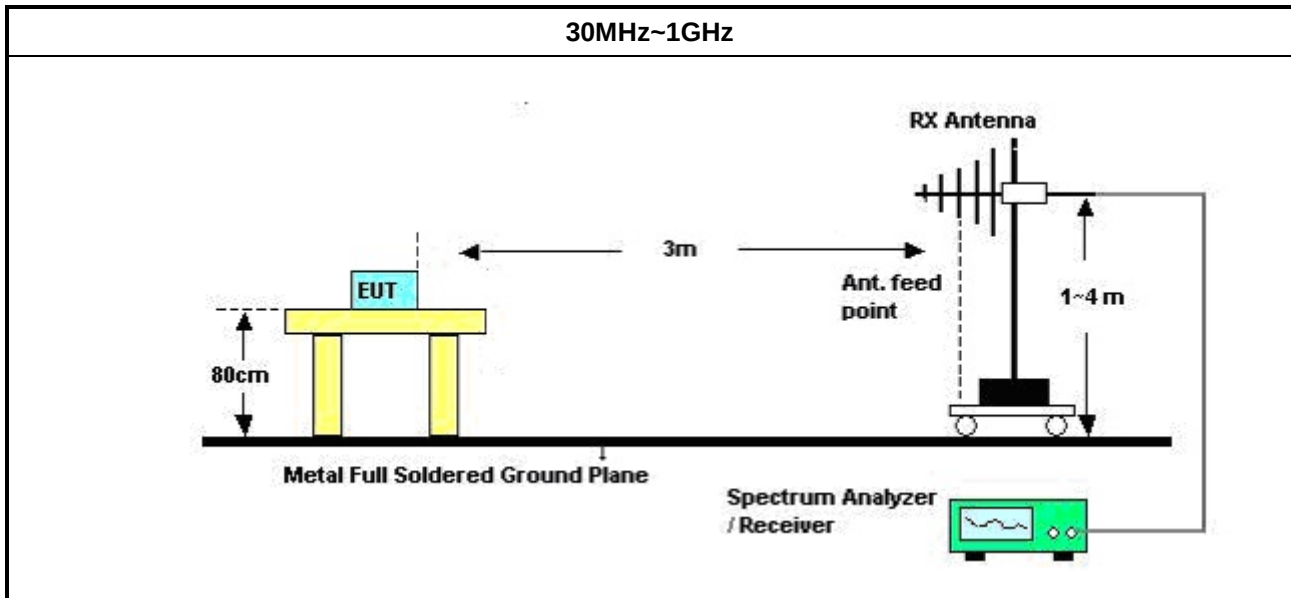
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
The average emission levels shall be measured in [duty cycle ≥ 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 (i.e., 1 MHz).
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.

3.6.4 Test Setup





3.6.5 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.

3.6.6 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	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
LISN	R&S	ENV 216	101274	9kHz ~ 30MHz	12/Jun/2018	11/Jun/2019
RF Cable-CON	MTJ	RG142	CB001-CO	9kHz ~ 30MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11003G	F308010045	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561F	9495	9kHz ~ 30MHz	11/Oct/2018	10/Oct/2019

NCR : Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	30/Oct/2018	29/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz 3m	30/Oct/2018	29/Oct/2019
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	22/Apr/2019	21/Apr/2020
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
Bilog Antenna with 5dB Pad	ETS	3142B & MTJ6102-05	00022055	26 MHz - 3 GHz	19/Nov/2018	18/Nov/2019
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz ~ 26.5GHz	05/Sep/2018	04/Sep/2019
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40GHz	18/Jul/2018	17/Jul/2019
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	22/Mar/2019	21/Mar/2020
RF Cable-high	SUHNER	SUCOFLEX 106	MY34918/4	1GHz ~ 40GHz	21/Mar/2019	20/Mar/2020
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	19/Jan/2019	18/Jan/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170339	18GHz ~ 40GHz	19/Apr/ 2019	18/Apr/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	09/Mar/ 2019	08/Mar/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
Loop Antenna	TESEQ	HLA 6120	31244	9kHz ~ 30MHz	15/Mar/2019	14/Mar/2020

**Instrument for Conducted Test**

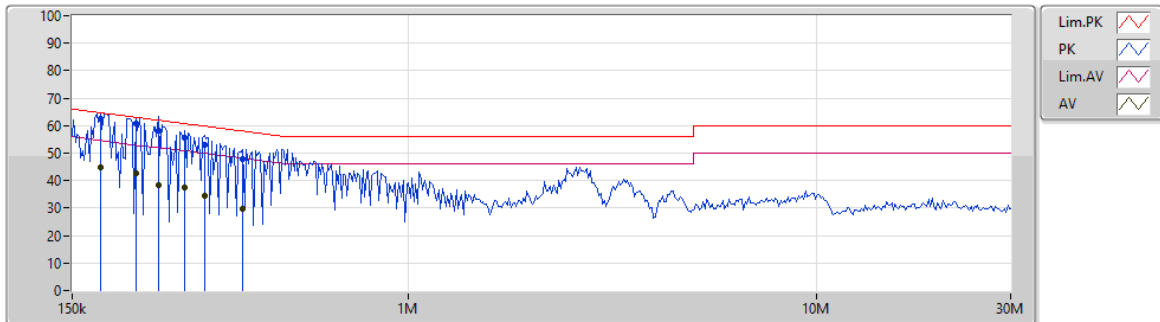
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101029	10Hz~40GHz	11/Sep/2018	10/Sep/2019
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	19/Feb/2019	18/Feb/2020
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	19/Feb/2019	18/Feb/2020
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz~1G	11/Jan/2019	10/Jan/2020
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	1G~18G	11/Jan/2019	10/Jan/2020
Cable 0.5m	HUBER	MY10714/4	RF Cable – 05	30MHz~1G	11/Jan/2019	10/Jan/2020
Cable 0.5m	HUBER	MY22998/4	RF Cable – 08	1G~18G	11/Jan/2019	10/Jan/2020
Cable 0.5m	HUBER	MY37954/4	RF Cable - 09	30MHz~1G	11/Jan/2019	10/Jan/2020
Cable 0.5m	HUBER	MY37954/4	RF Cable – 09	1G~18G	11/Jan/2019	10/Jan/2020
Cable 0.5m	HUBER	MY37955/4	RF Cable - 10	30MHz~1G	11/Jan/2019	10/Jan/2020
Cable 1.5m	HUBER	MY37973/4	RF Cable – 16	30MHz~1G	11/Jan/2019	10/Jan/2020
Spectrum Analyzer	R&S	FSV 40	101029	10Hz~40GHz	11/Sep/2018	10/Sep/2019

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	PoE Mode		

AC Conduction_Mode 1

21/05/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	175.887k	62.69	64.68	-1.99	19.51	Neutral	"Worst"	43.18	9.64	0.01	9.86			
AV	175.887k	44.89	54.68	-9.79	19.51	Neutral	-	25.38	9.64	0.01	9.86			
QP	214.615k	60.79	63.02	-2.23	19.51	Neutral	-	41.28	9.64	0.01	9.86			
AV	214.615k	42.55	53.02	-10.47	19.51	Neutral	-	23.04	9.64	0.01	9.86			
QP	244.252k	58.04	61.95	-3.91	19.51	Neutral	-	38.53	9.64	0.01	9.86			
AV	244.252k	38.34	51.95	-13.61	19.51	Neutral	-	18.83	9.64	0.01	9.86			
QP	283.569k	55.61	60.70	-5.09	19.51	Neutral	-	36.10	9.64	0.01	9.86			
AV	283.569k	37.43	50.70	-13.27	19.51	Neutral	-	17.92	9.64	0.01	9.86			
QP	316.369k	53.06	59.80	-6.74	19.51	Neutral	-	33.55	9.64	0.01	9.86			
AV	316.369k	34.40	49.80	-15.40	19.51	Neutral	-	14.89	9.64	0.01	9.86			
QP	393.79k	48.03	57.99	-9.96	19.51	Neutral	-	28.52	9.64	0.01	9.86			
AV	393.79k	29.91	47.99	-18.08	19.51	Neutral	-	10.40	9.64	0.01	9.86			

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

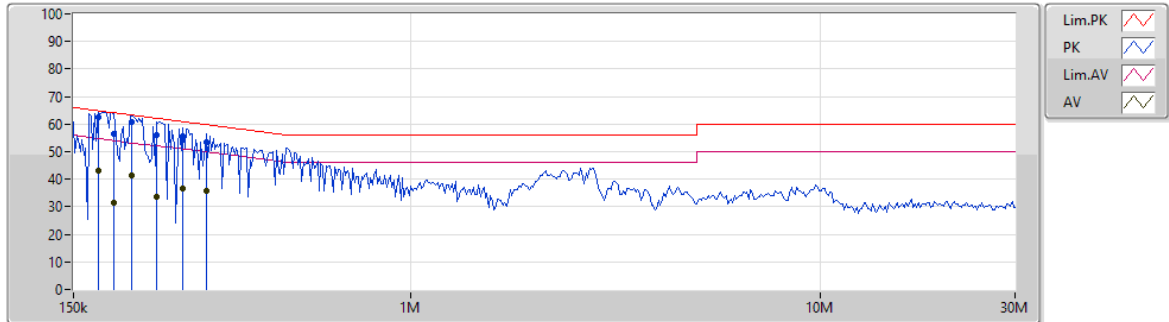
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	PoE Mode		

AC Conduction_Mode 1

21/05/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	172.421k	62.31	64.83	-2.52	19.48	Line	-	42.83	9.61	0.01	9.86			
AV	172.421k	43.11	54.83	-11.72	19.48	Line	-	23.63	9.61	0.01	9.86			
QP	188.574k	56.59	64.11	-7.52	19.48	Line	-	37.11	9.61	0.01	9.86			
AV	188.574k	31.52	54.11	-22.59	19.48	Line	-	12.04	9.61	0.01	9.86			
QP	208.304k	60.76	63.27	-2.51	19.48	Line	"Worst"	41.28	9.61	0.01	9.86			
AV	208.304k	41.37	53.27	-11.90	19.48	Line	-	21.89	9.61	0.01	9.86			
QP	239.44k	56.01	62.12	-6.11	19.48	Line	-	36.53	9.61	0.01	9.86			
AV	239.44k	33.82	52.12	-18.30	19.48	Line	-	14.34	9.61	0.01	9.86			
QP	277.982k	55.76	60.88	-5.12	19.48	Line	-	36.28	9.61	0.01	9.86			
AV	277.982k	36.60	50.88	-14.28	19.48	Line	-	17.12	9.61	0.01	9.86			
QP	316.369k	53.35	59.80	-6.45	19.48	Line	-	33.87	9.61	0.01	9.86			
AV	316.369k	35.67	49.80	-14.13	19.48	Line	-	16.19	9.61	0.01	9.86			

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	10.075M	16.017M	16M0G1D	10.05M	14.818M
802.11g_Nss1,(6Mbps)_2TX	15.625M	26.187M	26M2D1D	15.05M	16.417M
802.11n HT20_Nss1,(MCS0)_2TX	15.1M	27.111M	27M1D1D	15.025M	17.516M
802.11n HT40_Nss1,(MCS0)_2TX	35.1M	36.132M	36M1D1D	33.75M	35.832M

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

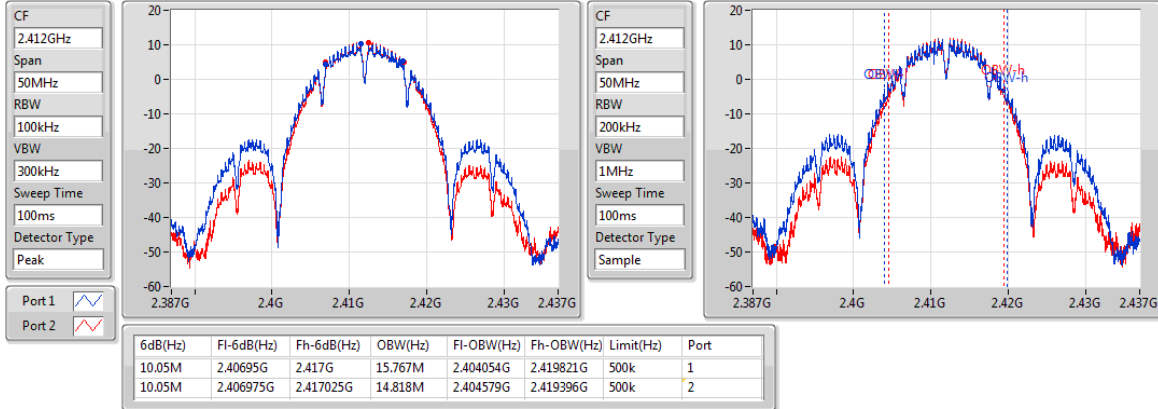
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	10.05M	15.767M	10.05M	14.818M
2437MHz_TnomVnom	Pass	500k	10.075M	16.017M	10.075M	15.842M
2462MHz_TnomVnom	Pass	500k	10.075M	15.792M	10.075M	15.067M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	15.1M	16.692M	15.05M	16.417M
2437MHz_TnomVnom	Pass	500k	15.275M	26.187M	15.625M	21.064M
2462MHz_TnomVnom	Pass	500k	15.075M	16.642M	15.075M	16.417M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	15.1M	17.591M	15.1M	17.516M
2437MHz_TnomVnom	Pass	500k	15.1M	27.111M	15.025M	22.139M
2462MHz_TnomVnom	Pass	500k	15.075M	17.616M	15.075M	17.541M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	500k	35.1M	35.832M	35.1M	35.832M
2437MHz_TnomVnom	Pass	500k	35M	36.132M	33.75M	36.082M
2452MHz_TnomVnom	Pass	500k	35M	35.832M	35.05M	35.932M

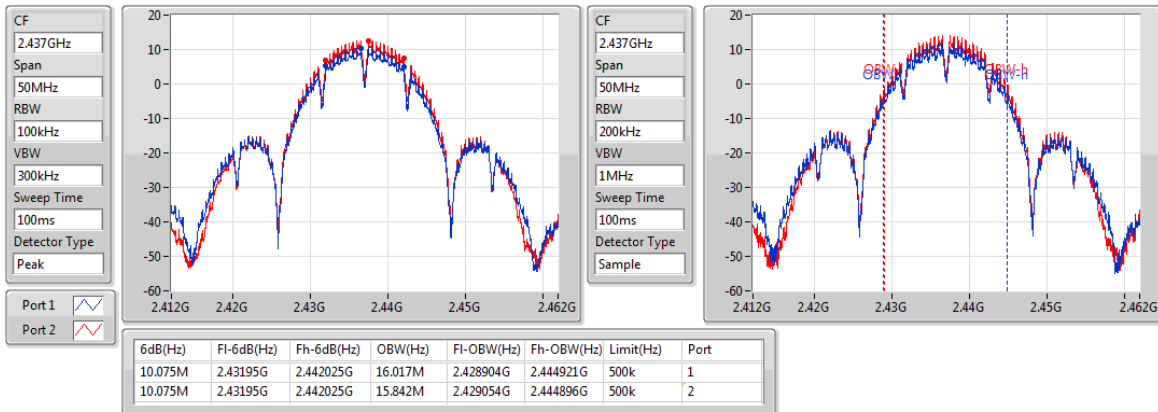
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

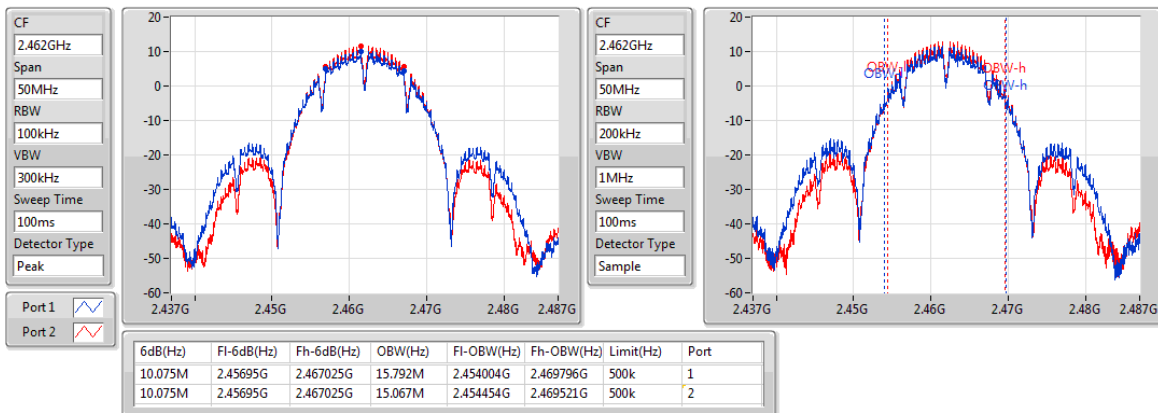
06/05/2019


802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

06/05/2019

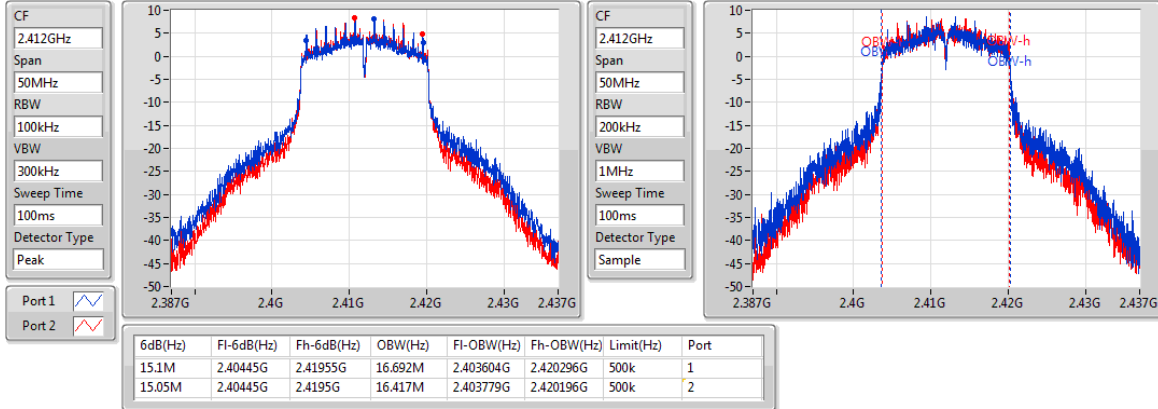

802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

06/05/2019

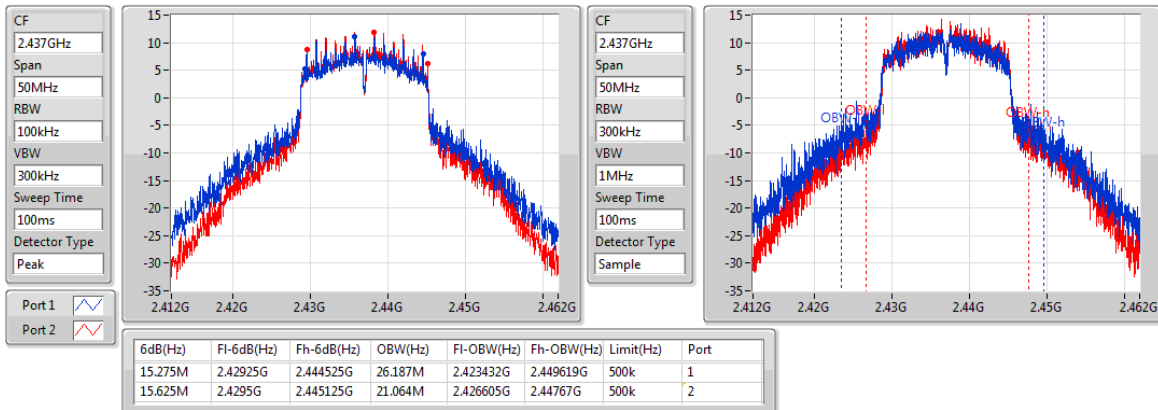


802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

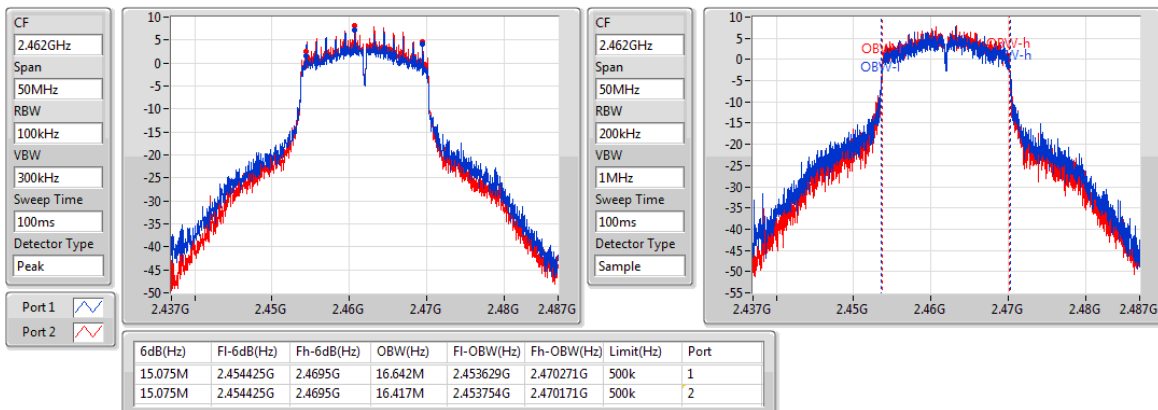
06/05/2019


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

06/05/2019

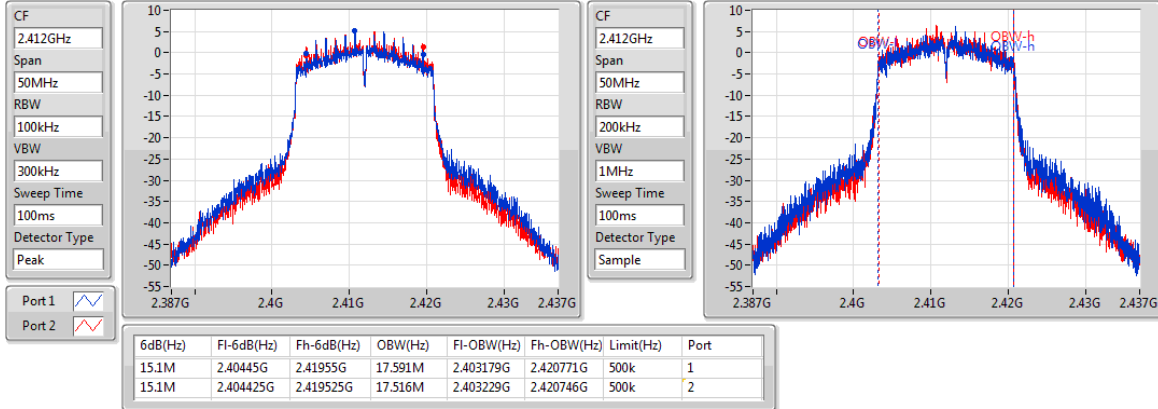

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

06/05/2019

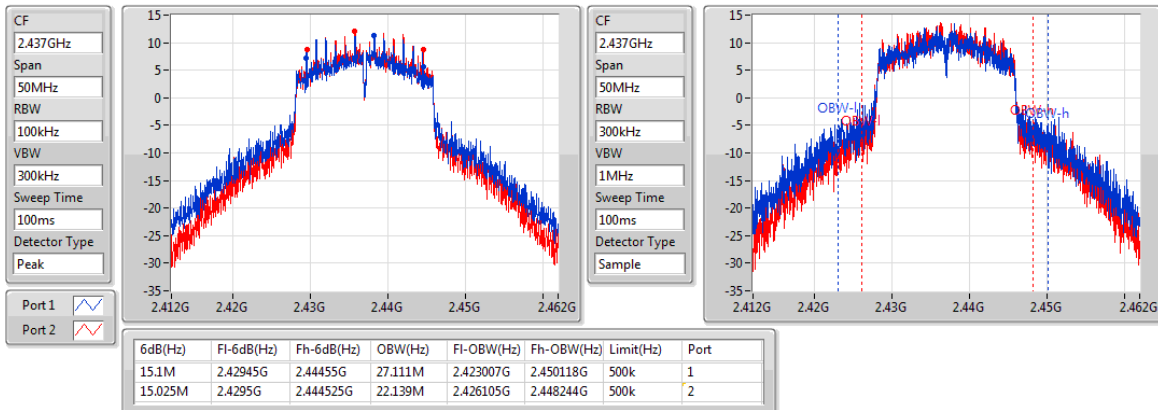


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2412MHz

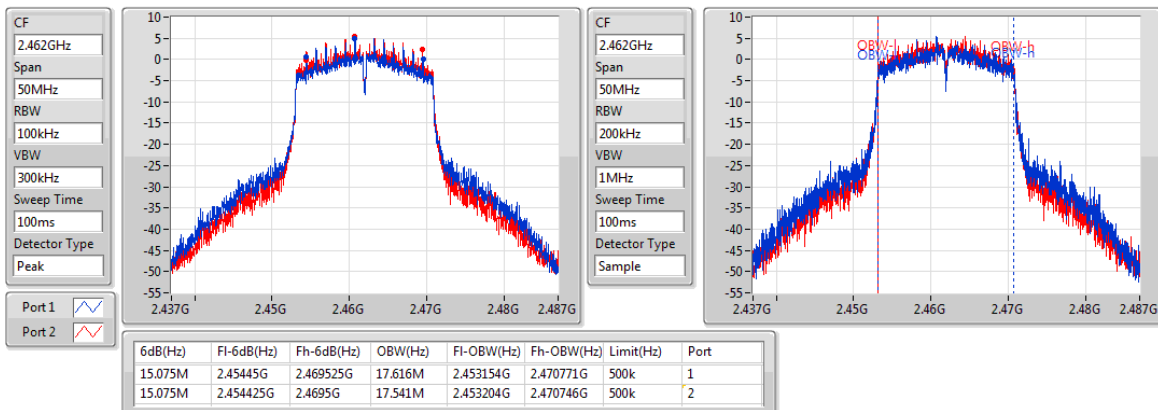
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802.11n HT20_Nss1,(MCS0)_2TX
EBW
2437MHz

06/05/2019

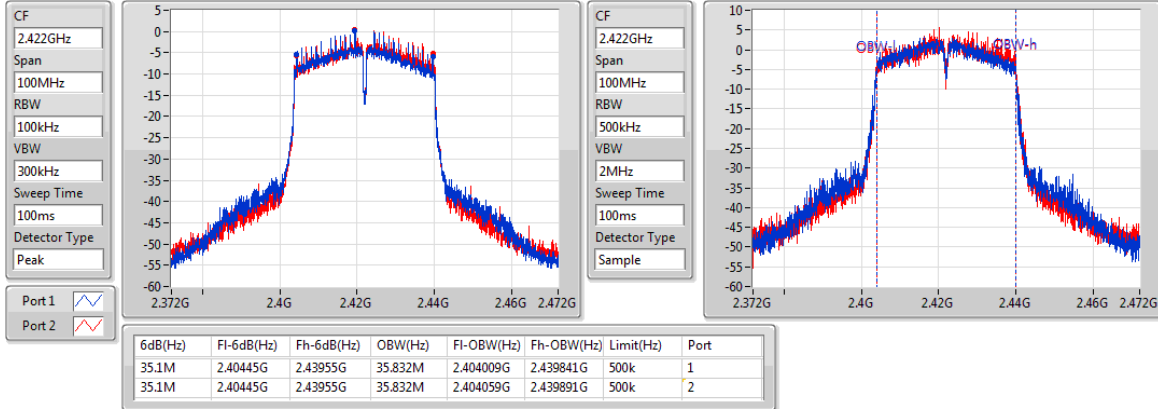

802.11n HT20_Nss1,(MCS0)_2TX
EBW
2462MHz

06/05/2019

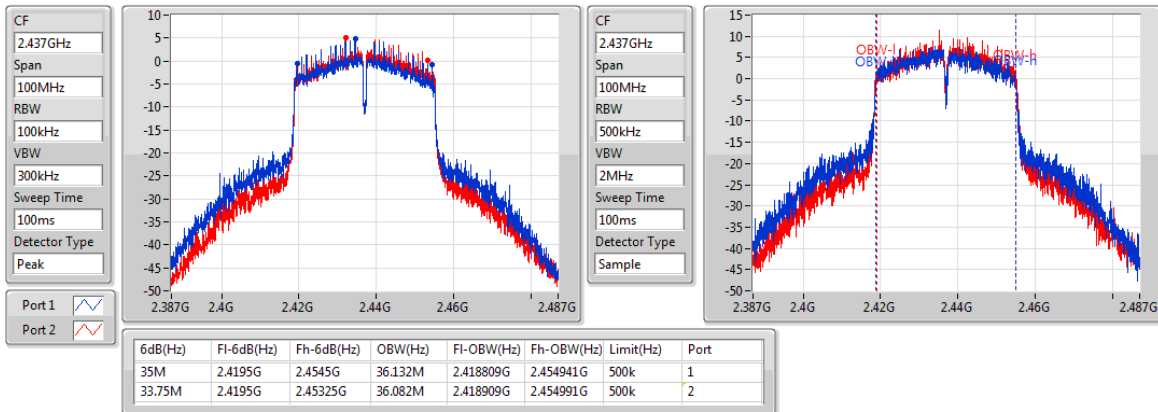


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2422MHz

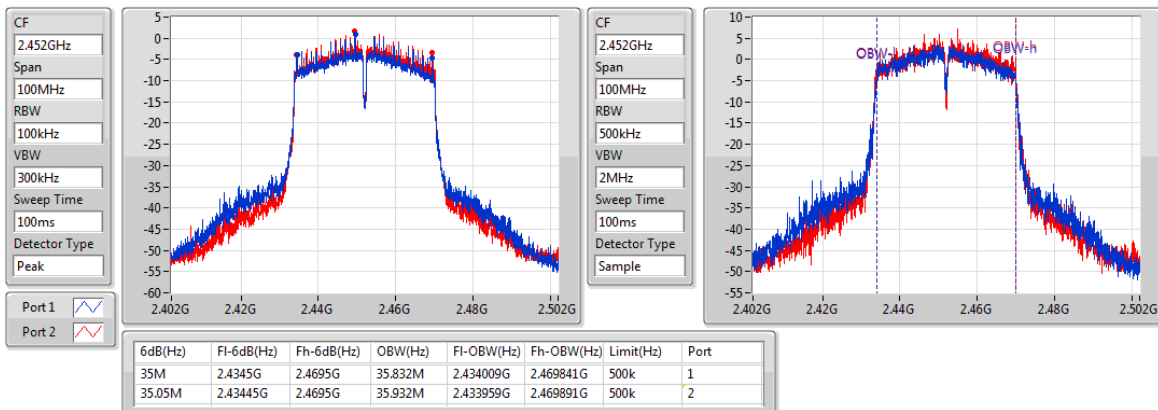
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802.11n HT40_Nss1,(MCS0)_2TX
EBW
2437MHz

06/05/2019


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2452MHz

06/05/2019



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	25.48	0.35318
802.11g_Nss1,(6Mbps)_2TX	25.01	0.31696
802.11n HT20_Nss1,(MCS0)_2TX	25.04	0.31915
802.11n HT40_Nss1,(MCS0)_2TX	20.88	0.12246

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.60	20.62	20.93	23.79	30.00
2417MHz_TnomVnom	Pass	1.60	20.63	21.00	23.83	30.00
2437MHz_TnomVnom	Pass	1.60	21.07	23.53	25.48	30.00
2457MHz_TnomVnom	Pass	1.60	20.63	22.05	24.41	30.00
2462MHz_TnomVnom	Pass	1.60	20.65	21.87	24.31	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.60	18.20	18.53	21.38	30.00
2417MHz_TnomVnom	Pass	1.60	20.38	20.83	23.62	30.00
2437MHz_TnomVnom	Pass	1.60	21.60	22.36	25.01	30.00
2457MHz_TnomVnom	Pass	1.60	19.48	20.19	22.86	30.00
2462MHz_TnomVnom	Pass	1.60	17.56	18.48	21.05	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.60	15.19	15.67	18.45	30.00
2417MHz_TnomVnom	Pass	1.60	18.92	19.32	22.13	30.00
2437MHz_TnomVnom	Pass	1.60	21.73	22.31	25.04	30.00
2457MHz_TnomVnom	Pass	1.60	20.25	21.25	23.79	30.00
2462MHz_TnomVnom	Pass	1.60	15.15	15.98	18.60	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	1.60	13.05	13.21	16.14	30.00
2427MHz_TnomVnom	Pass	1.60	14.49	14.69	17.60	30.00
2437MHz_TnomVnom	Pass	1.60	17.53	18.19	20.88	30.00
2447MHz_TnomVnom	Pass	1.60	14.97	15.75	18.39	30.00
2452MHz_TnomVnom	Pass	1.60	13.51	14.19	16.87	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-2.44
802.11g_Nss1,(6Mbps)_2TX	-2.52
802.11n HT20_Nss1,(MCS0)_2TX	-2.21
802.11n HT40_Nss1,(MCS0)_2TX	-9.64

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.61	-6.43	-6.31	-5.23	8.00
2437MHz_TnomVnom	Pass	4.61	-5.01	-2.99	-2.44	8.00
2462MHz_TnomVnom	Pass	4.61	-6.48	-4.56	-2.88	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.61	-9.29	-8.85	-6.43	8.00
2437MHz_TnomVnom	Pass	4.61	-5.55	-5.36	-2.52	8.00
2462MHz_TnomVnom	Pass	4.61	-8.65	-8.65	-6.79	8.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.61	-11.73	-11.39	-9.89	8.00
2437MHz_TnomVnom	Pass	4.61	-4.72	-3.61	-2.21	8.00
2462MHz_TnomVnom	Pass	4.61	-12.30	-11.00	-9.35	8.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	4.61	-15.73	-16.29	-12.99	8.00
2437MHz_TnomVnom	Pass	4.61	-11.49	-11.36	-9.64	8.00
2452MHz_TnomVnom	Pass	4.61	-16.29	-15.52	-13.46	8.00

DG = Directional Gain; RBW=3kHz;

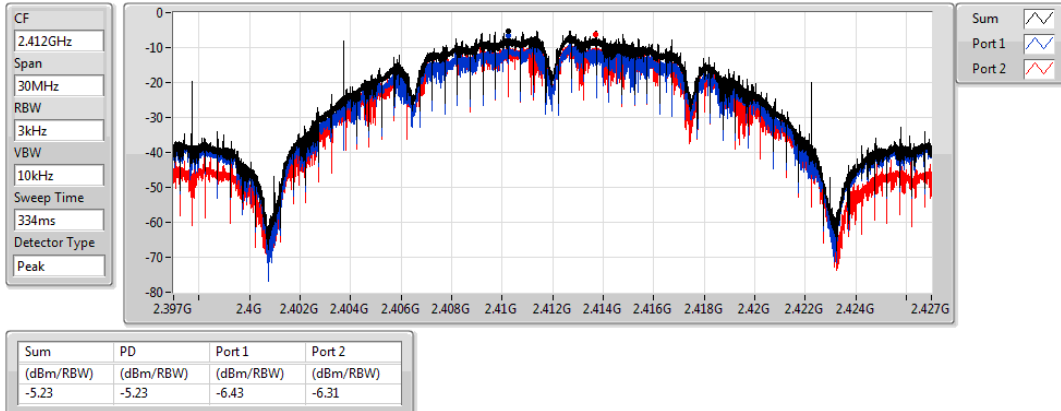
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11b_Nss1,(1Mbps)_2TX

2412MHz

PSD

06/05/2019

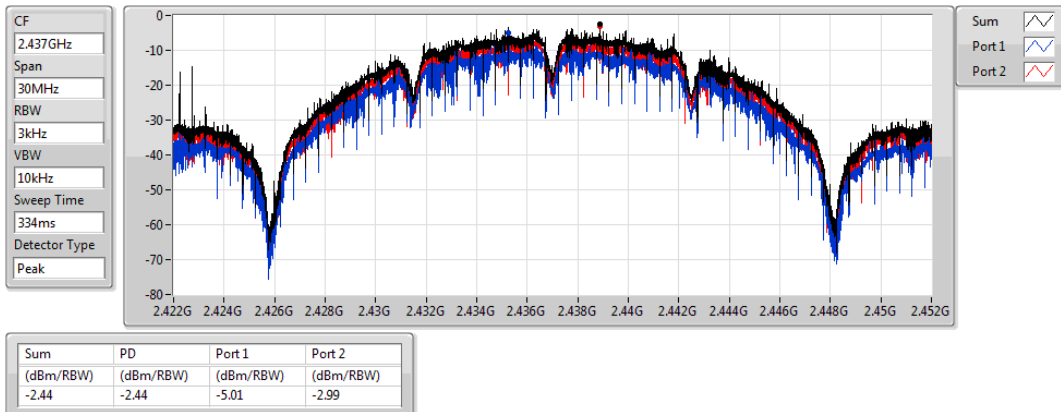


802.11b_Nss1,(1Mbps)_2TX

2437MHz

PSD

06/05/2019

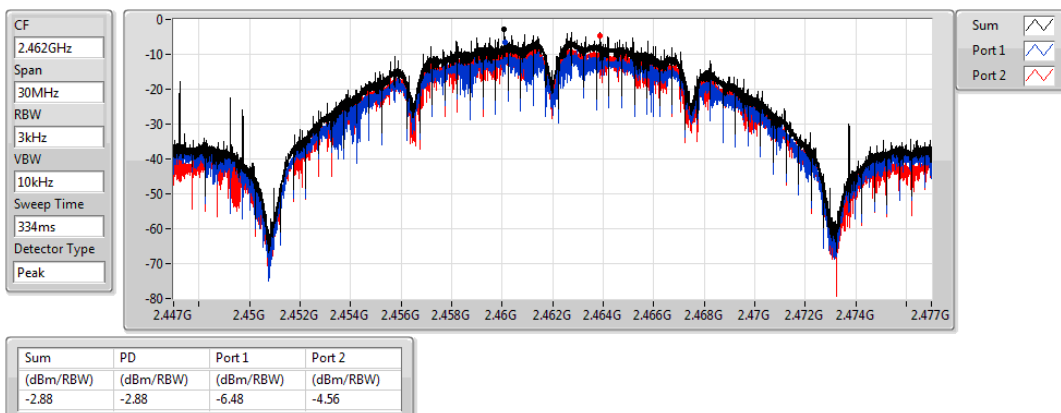


802.11b_Nss1,(1Mbps)_2TX

2462MHz

PSD

06/05/2019

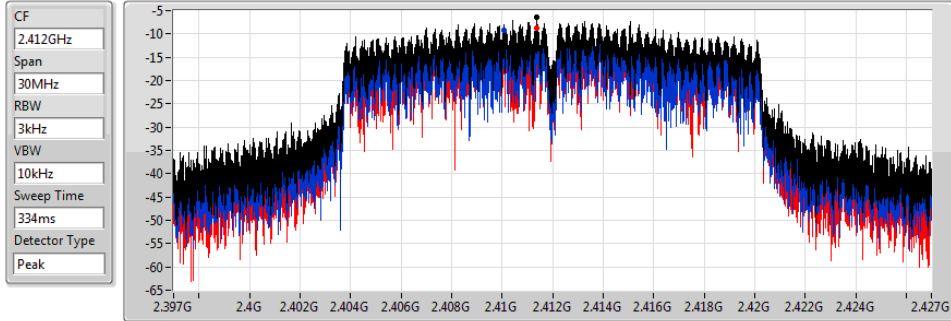


802.11g_Nss1,(6Mbps)_2TX

2412MHz

PSD

06/05/2019



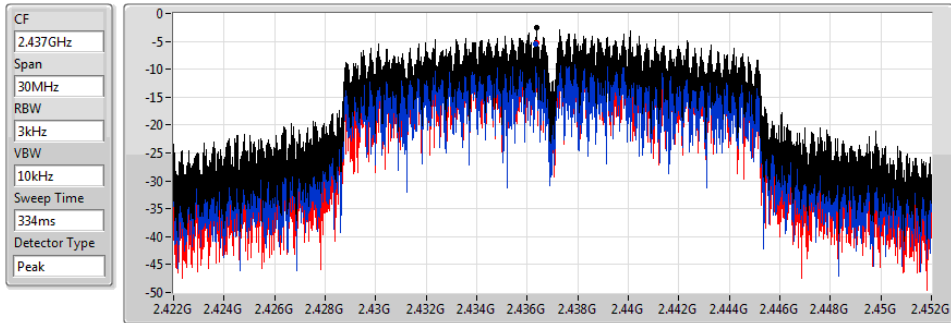
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-6.43	-6.43	-9.29	-8.85

802.11g_Nss1,(6Mbps)_2TX

2437MHz

PSD

06/05/2019



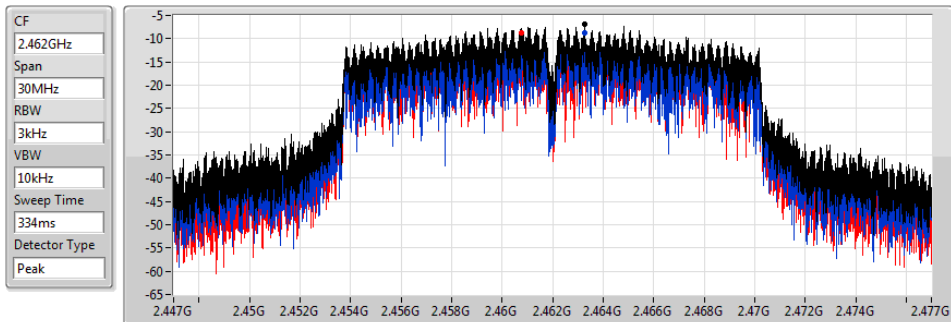
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.52	-2.52	-5.55	-5.36

802.11g_Nss1,(6Mbps)_2TX

2462MHz

PSD

06/05/2019



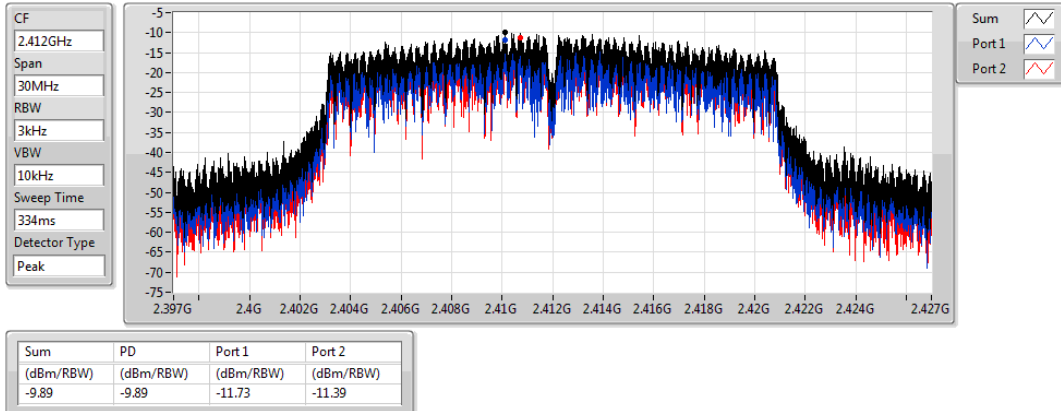
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-6.79	-6.79	-8.65	-8.65

802.11n HT20_Nss1,(MCS0)_2TX

PSD

2412MHz

06/05/2019

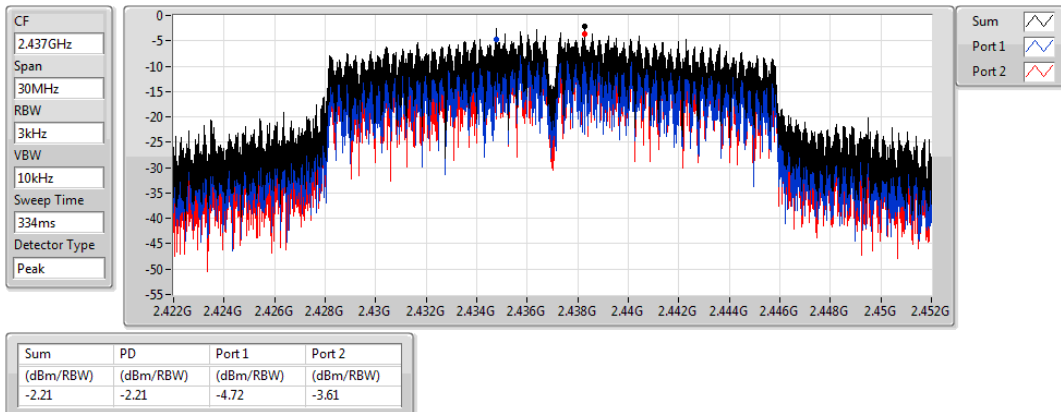


802.11n HT20_Nss1,(MCS0)_2TX

PSD

2437MHz

06/05/2019

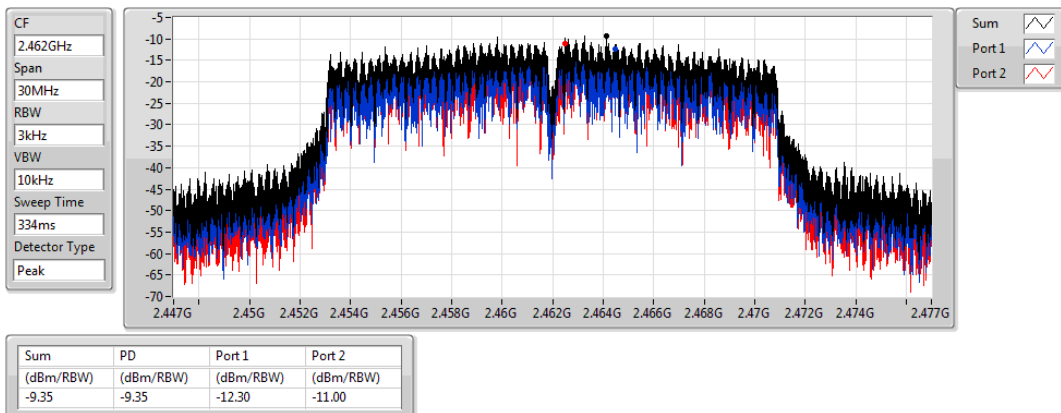


802.11n HT20_Nss1,(MCS0)_2TX

PSD

2462MHz

06/05/2019

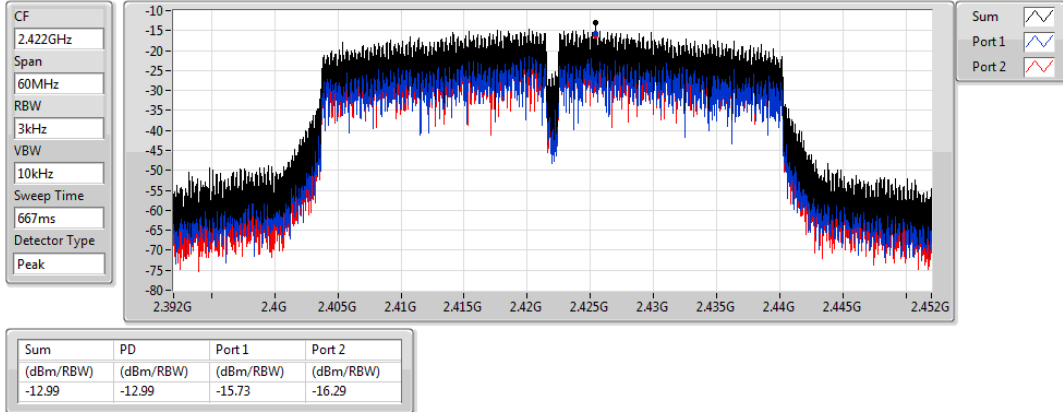


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2422MHz

06/05/2019

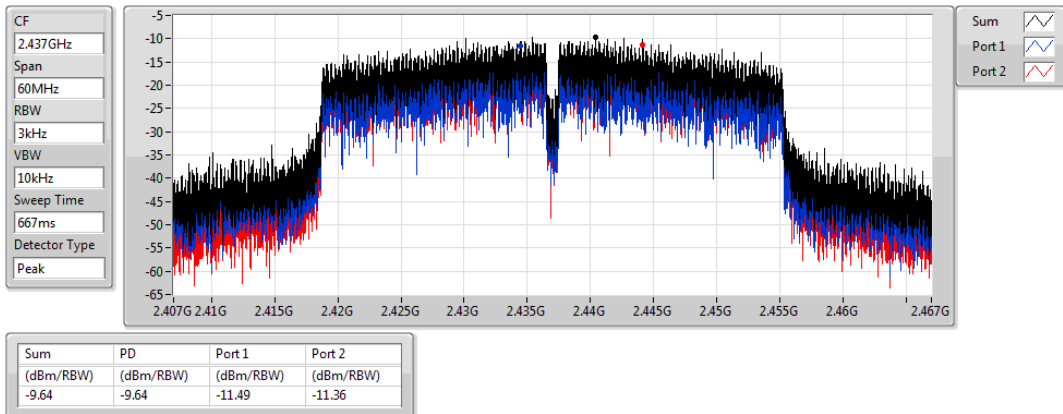


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2437MHz

06/05/2019

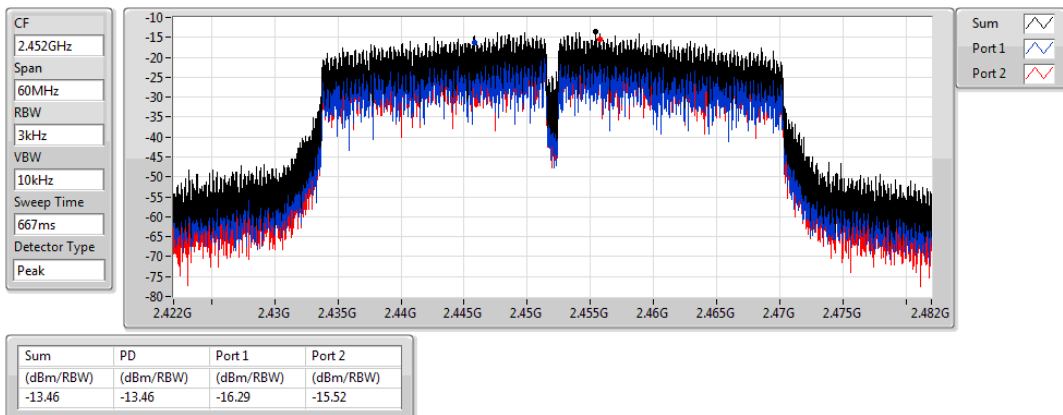


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2452MHz

06/05/2019



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)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43749G	12.84	-17.16	2.30262G	-52.98	2.398G	-17.51	2.487G	-51.22	24.49147G	-36.98	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43574G	11.78	-18.22	2.30059G	-53.36	2.39952G	-18.33	2.49456G	-50.49	24.14589G	-37.53	1
802.11n_HT20_Nss1,(MCS0)_2TX	Pass	2.43574G	11.84	-18.16	2.16807G	-54.42	2.39988G	-25.54	2.50918G	-51.28	24.70781G	-36.94	1
802.11n_HT40_Nss1,(MCS0)_2TX	Pass	2.43449G	5.37	-24.63	2.15827G	-55.22	2.39948G	-25.59	2.4845G	-42.62	24.43067G	-37.40	1

Result

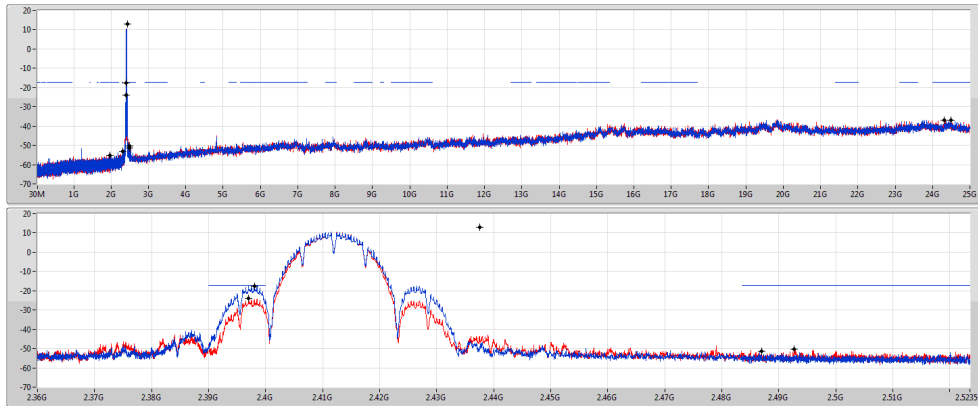
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43749G	12.84	-17.16	2.30262G	-52.98	2.398G	-17.51	2.487G	-51.22	24.49147G	-36.98	1
2412MHz_TnomVnom	Pass	2.43749G	12.84	-17.16	1.96623G	-55.26	2.397G	-24.06	2.49268G	-50.41	24.30604G	-36.94	2
2437MHz_TnomVnom	Pass	2.43749G	12.84	-17.16	2.02069G	-53.61	2.39994G	-47.51	2.48452G	-50.64	24.13185G	-36.71	1
2437MHz_TnomVnom	Pass	2.43749G	12.84	-17.16	1.82556G	-55.16	2.3995G	-39.25	2.4845G	-44.00	24.14027G	-37.47	2
2462MHz_TnomVnom	Pass	2.43749G	12.84	-17.16	2.30029G	-53.81	2.3917G	-51.27	2.48648G	-42.33	24.71623G	-36.98	1
2462MHz_TnomVnom	Pass	2.43749G	12.84	-17.16	2.19952G	-54.35	2.39138G	-51.43	2.48796G	-40.33	24.44652G	-37.04	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43574G	11.78	-18.22	2.30059G	-53.36	2.39952G	-18.33	2.49456G	-50.49	24.14589G	-37.53	1
2412MHz_TnomVnom	Pass	2.43574G	11.78	-18.22	2.30262G	-53.62	2.39986G	-19.77	2.48946G	-46.66	24.81738G	-37.12	2
2437MHz_TnomVnom	Pass	2.43574G	11.78	-18.22	2.30437G	-53.53	2.39986G	-34.56	2.48358G	-42.92	24.43809G	-37.35	1
2437MHz_TnomVnom	Pass	2.43574G	11.78	-18.22	2.30932G	-54.18	2.3998G	-43.81	2.4841G	-45.05	24.48023G	-35.59	2
2462MHz_TnomVnom	Pass	2.43574G	11.78	-18.22	2.15758G	-55.03	2.39076G	-47.46	2.48362G	-34.62	23.36483G	-37.86	1
2462MHz_TnomVnom	Pass	2.43574G	11.78	-18.22	2.12409G	-55.22	2.39606G	-49.84	2.48418G	-38.31	24.13746G	-37.21	2
802.11n_HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43574G	11.84	-18.16	2.16807G	-54.42	2.39988G	-25.54	2.50918G	-51.28	24.70781G	-36.94	1
2412MHz_TnomVnom	Pass	2.43574G	11.84	-18.16	2.30437G	-52.62	2.39922G	-27.25	2.49826G	-49.11	24.41842G	-36.54	2
2437MHz_TnomVnom	Pass	2.43574G	11.84	-18.16	2.14418G	-54.06	2.39986G	-32.14	2.48388G	-40.51	24.4718G	-36.91	1
2437MHz_TnomVnom	Pass	2.43574G	11.84	-18.16	2.30699G	-54.08	2.39926G	-40.90	2.48414G	-42.46	24.77524G	-37.45	2
2462MHz_TnomVnom	Pass	2.43574G	11.84	-18.16	2.18205G	-54.01	2.39892G	-48.92	2.48384G	-40.70	24.3819G	-36.59	1
2462MHz_TnomVnom	Pass	2.43574G	11.84	-18.16	2.13516G	-54.13	2.39946G	-49.75	2.48362G	-43.07	24.07003G	-37.74	2
802.11n_HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.43449G	5.37	-24.63	2.14653G	-53.66	2.3992G	-35.13	2.48518G	-52.14	24.54566G	-37.78	1
2422MHz_TnomVnom	Pass	2.43449G	5.37	-24.63	2.30769G	-53.54	2.39448G	-36.96	2.49698G	-47.33	24.55407G	-37.25	2
2437MHz_TnomVnom	Pass	2.43449G	5.37	-24.63	2.15827G	-55.22	2.39948G	-25.59	2.4845G	-42.62	24.43067G	-37.40	1
2437MHz_TnomVnom	Pass	2.43449G	5.37	-24.63	2.17773G	-54.30	2.39952G	-30.02	2.48486G	-43.64	24.06047G	-37.09	2
2452MHz_TnomVnom	Pass	2.43449G	5.37	-24.63	2.30368G	-53.33	2.39568G	-49.06	2.4845G	-38.80	24.46713G	-36.78	1
2452MHz_TnomVnom	Pass	2.43449G	5.37	-24.63	2.30168G	-53.95	2.39952G	-49.45	2.48446G	-40.63	24.0801G	-37.14	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

2412MHz

06/05/2019



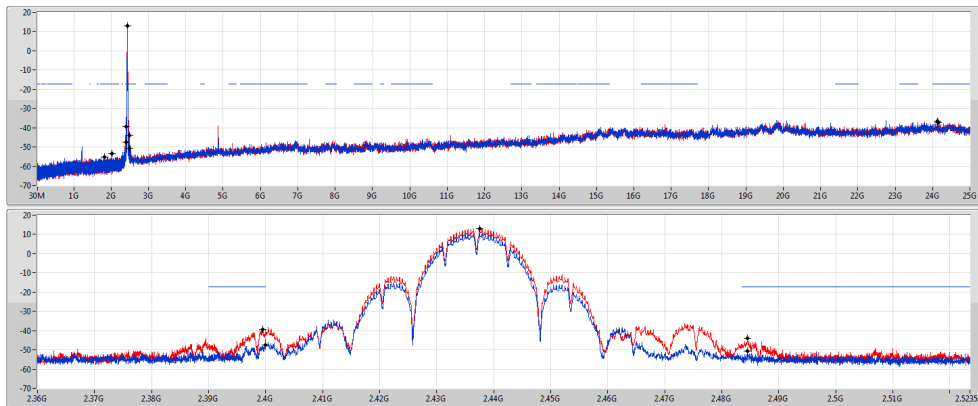
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
243749G	12.84	-17.16	2.30262G	-52.98	2.398G	-17.51	2.487G	-51.22	24.49147G	-36.98	1
243749G	12.84	-17.16	1.96623G	-55.26	2.397G	-24.06	2.49268G	-50.41	24.30604G	-36.94	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

2437MHz

06/05/2019



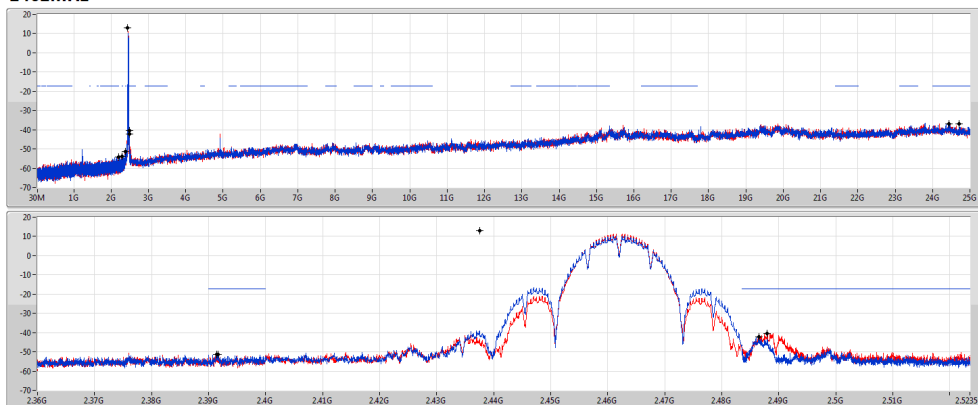
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243749G	12.84	-17.16	2.02099G	-53.61	2.39994G	-47.51	2.48452G	-50.64	24.13185G	-36.71	1
243749G	12.84	-17.16	1.82556G	-55.16	2.3995G	-39.25	2.4845G	-44.00	24.14027G	-37.47	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

2462MHz

06/05/2019

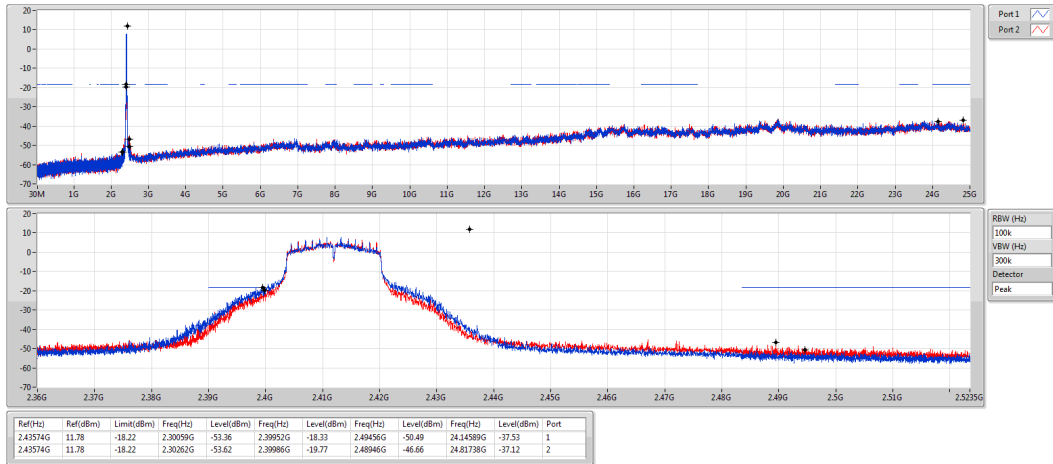


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
243749G	12.84	-17.16	2.30029G	-53.81	2.3917G	-51.27	2.48648G	-42.33	24.71623G	-36.98	1
243749G	12.84	-17.16	2.39933G	-54.35	2.39138G	-51.43	2.48796G	-40.33	24.44652G	-37.04	2

802.11g_Nss1.(6Mbps)_2TX 2412MHz

CSE NdB

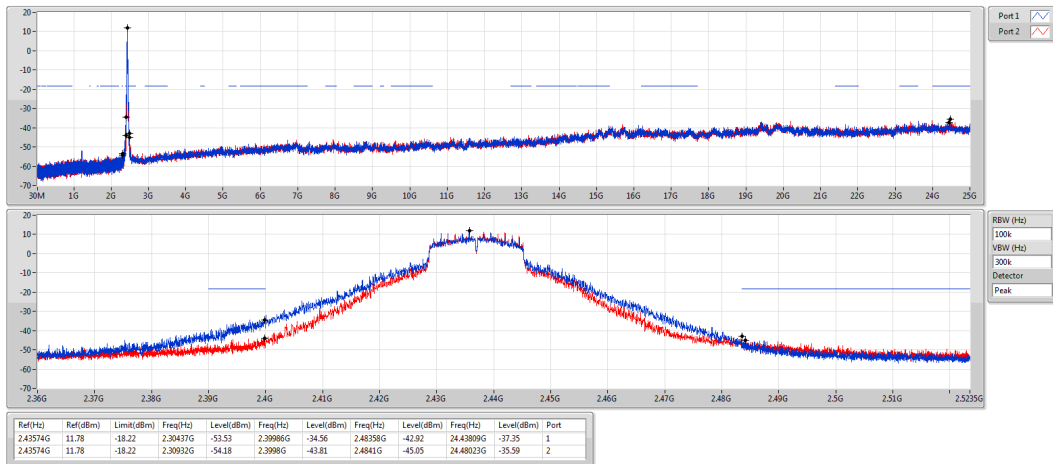
06/05/2019



802.11g_Nss1.(6Mbps)_2TX 2437MHz

CSE NdB

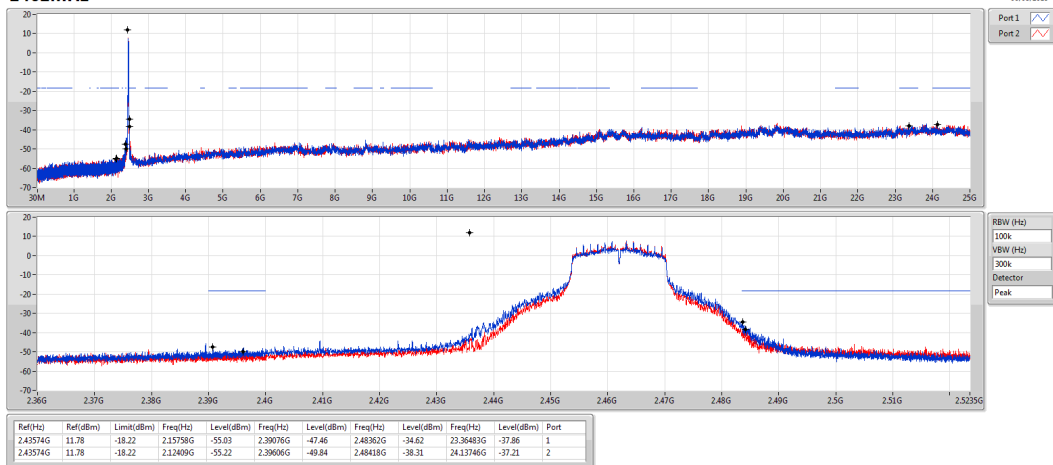
06/05/2019



802.11g_Nss1.(6Mbps)_2TX 2462MHz

CSE NdB

06/05/2019

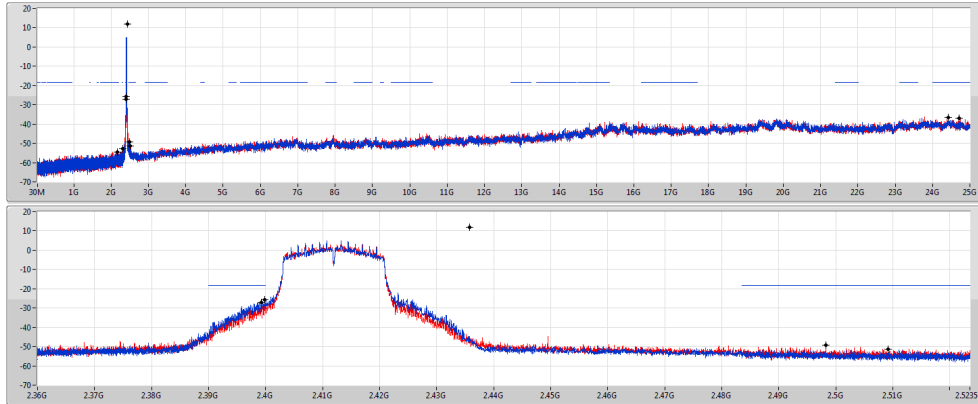


802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

2412MHz

06/05/2019

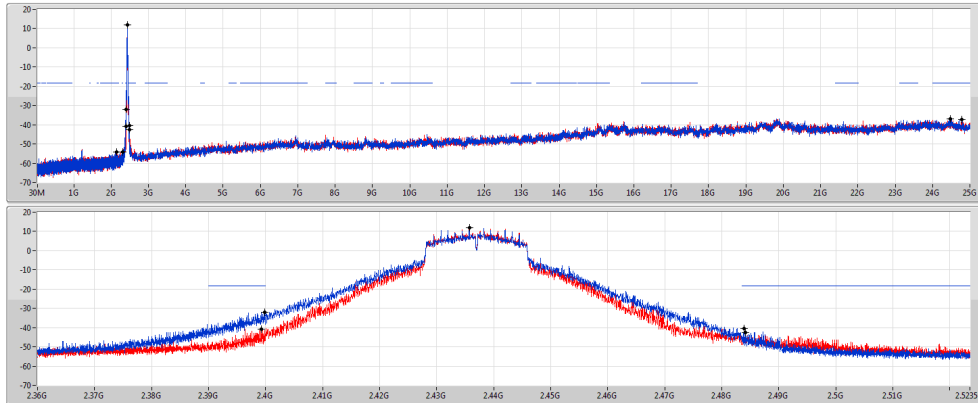


802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

2437MHz

06/05/2019

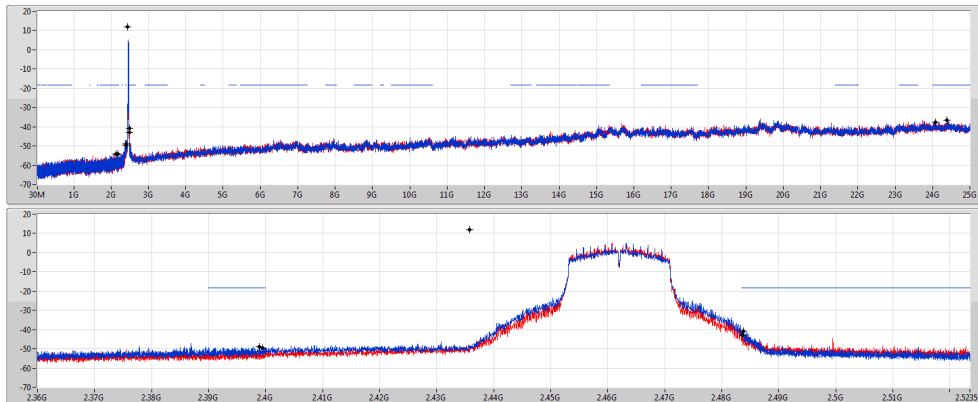


802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

2462MHz

06/05/2019

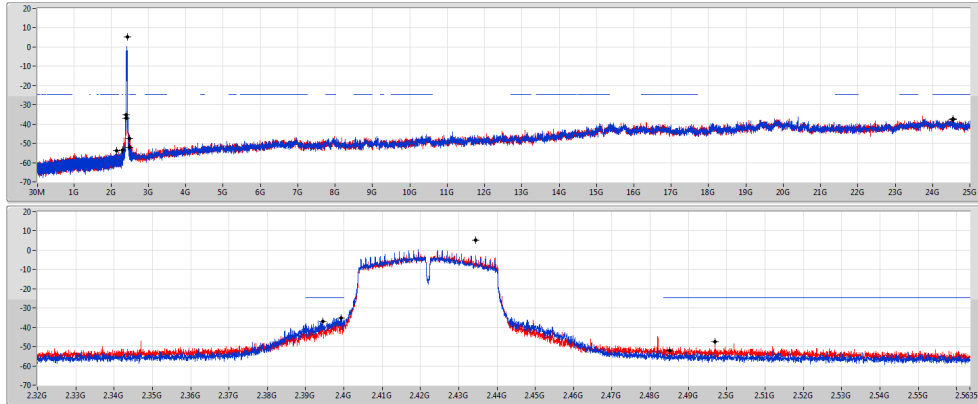


802.11n HT40_Nss1,(MCS0)_2TX

2422MHz

CSE NdB

06/05/2019

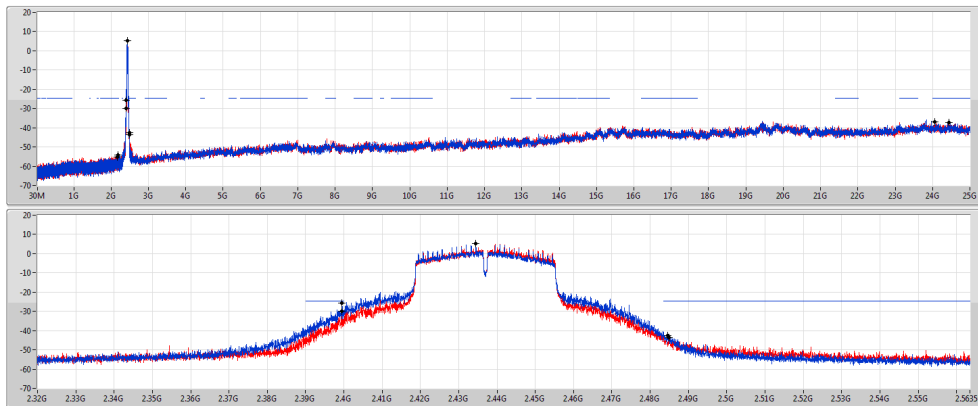


802.11n HT40_Nss1,(MCS0)_2TX

2437MHz

CSE NdB

06/05/2019

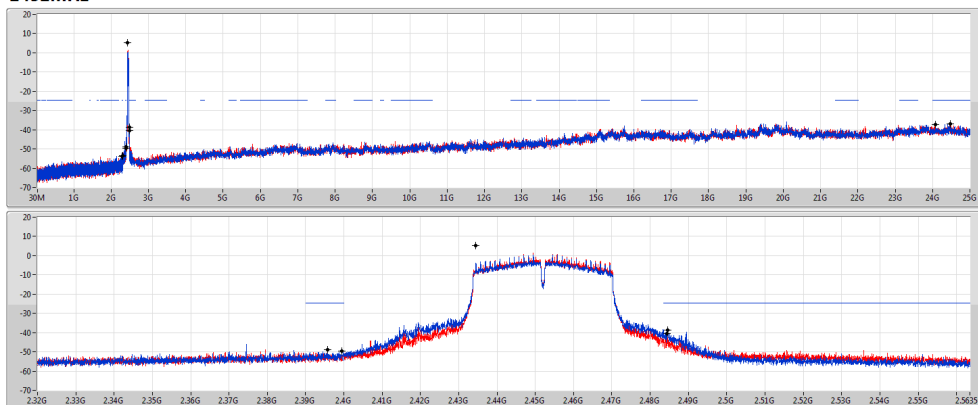


802.11n HT40_Nss1,(MCS0)_2TX

2452MHz

CSE NdB

06/05/2019





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	PK	551.86M	40.13	46.00	-5.87	-0.25	3	Horizontal	360	1.00	-

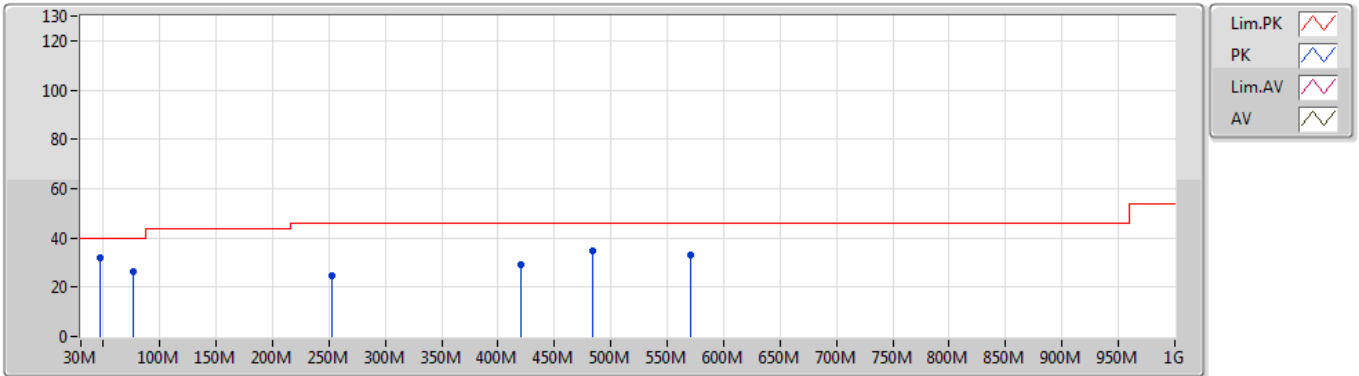
**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	47.46M	31.84	40.00	-8.16	-11.63	3	Vertical	0	1.00	-
2437MHz	Pass	PK	76.56M	26.38	40.00	-13.62	-14.04	3	Vertical	0	1.00	-
2437MHz	Pass	PK	253.1M	24.38	46.00	-21.62	-6.46	3	Vertical	0	1.00	-
2437MHz	Pass	PK	419.94M	29.32	46.00	-16.68	-2.27	3	Vertical	0	1.00	-
2437MHz	Pass	PK	483.96M	34.90	46.00	-11.10	-1.55	3	Vertical	0	1.00	-
2437MHz	Pass	QP	571.26M	32.96	46.00	-13.04	-0.48	3	Vertical	116	1.10	-
2437MHz	Pass	PK	31.94M	31.09	40.00	-8.91	-3.92	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	128.94M	25.65	43.50	-17.85	-7.90	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	288.02M	29.71	46.00	-16.29	-6.17	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	385.02M	32.71	46.00	-13.29	-3.92	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	460.68M	35.50	46.00	-10.50	-1.99	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	551.86M	40.13	46.00	-5.87	-0.25	3	Horizontal	360	1.00	-

802.11n HT40_Nss1,(MCS0)_2TX

04/05/2019

2437MHz_PoE

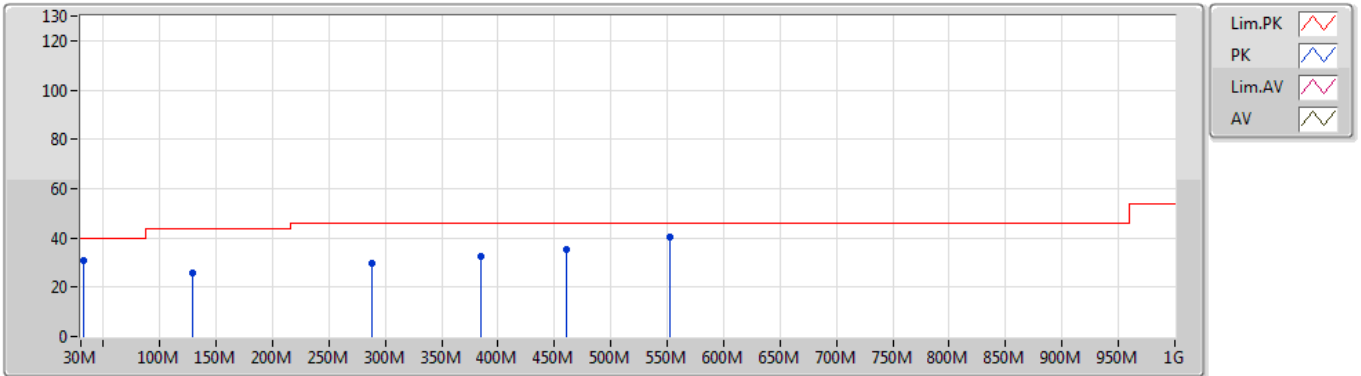


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	47.46M	31.84	40.00	-8.16	-11.63	3	Vertical	0	1.00	-				
PK	76.56M	26.38	40.00	-13.62	-14.04	3	Vertical	0	1.00	-				
PK	253.1M	24.38	46.00	-21.62	-6.46	3	Vertical	0	1.00	-				
PK	419.94M	29.32	46.00	-16.68	-2.27	3	Vertical	0	1.00	-				
PK	483.96M	34.90	46.00	-11.10	-1.55	3	Vertical	0	1.00	-				
QP	571.26M	32.96	46.00	-13.04	-0.48	3	Vertical	116	1.10	-				

802.11n HT40_Nss1,(MCS0)_2TX

04/05/2019

2437MHz_PoE



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	31.94M	31.09	40.00	-8.91	-3.92	3	Horizontal	360	1.00	-				
PK	128.94M	25.65	43.50	-17.85	-7.90	3	Horizontal	360	1.00	-				
PK	288.02M	29.71	46.00	-16.29	-6.17	3	Horizontal	360	1.00	-				
PK	385.02M	32.71	46.00	-13.29	-3.92	3	Horizontal	360	1.00	-				
PK	460.68M	35.50	46.00	-10.50	-1.99	3	Horizontal	360	1.00	-				
PK	551.86M	40.13	46.00	-5.87	-0.25	3	Horizontal	360	1.00	-				

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	2.4838G	53.81	54.00	-0.19	0.97	3	Vertical	236	1.18	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.4836G	53.78	54.00	-0.22	0.97	3	Horizontal	203	1.68	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.4836G	53.97	54.00	-0.03	0.97	3	Horizontal	195	1.99	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	AV	2.4838G	53.62	54.00	-0.38	0.97	3	Vertical	94	1.17	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3862G	51.90	54.00	-2.10	1.07	3	Vertical	246	1.01	-
2412MHz	Pass	AV	2.4112G	108.31	Inf	-Inf	1.03	3	Vertical	246	1.01	-
2412MHz	Pass	PK	2.3866G	59.47	74.00	-14.53	1.06	3	Vertical	246	1.01	-
2412MHz	Pass	PK	2.411G	110.44	Inf	-Inf	1.03	3	Vertical	246	1.01	-
2412MHz	Pass	AV	2.3872G	51.25	54.00	-2.75	1.06	3	Horizontal	154	2.34	-
2412MHz	Pass	AV	2.4128G	106.52	Inf	-Inf	1.02	3	Horizontal	154	2.34	-
2412MHz	Pass	PK	2.387G	58.33	74.00	-15.67	1.06	3	Horizontal	154	2.34	-
2412MHz	Pass	PK	2.4128G	108.62	Inf	-Inf	1.02	3	Horizontal	154	2.34	-
2412MHz	Pass	AV	4.82394G	38.83	54.00	-15.17	7.12	3	Vertical	193	1.67	-
2412MHz	Pass	PK	4.824G	47.87	74.00	-26.13	7.12	3	Vertical	193	1.67	-
2412MHz	Pass	AV	4.824G	44.09	54.00	-9.91	7.12	3	Horizontal	209	2.58	-
2412MHz	Pass	PK	4.82406G	48.99	74.00	-25.01	7.12	3	Horizontal	209	2.58	-
2417MHz	Pass	AV	2.39G	50.43	54.00	-3.57	1.05	3	Vertical	237	1.01	-
2417MHz	Pass	AV	2.4162G	108.38	Inf	-Inf	1.02	3	Vertical	237	1.01	-
2417MHz	Pass	PK	2.3888G	57.99	74.00	-16.01	1.05	3	Vertical	237	1.01	-
2417MHz	Pass	PK	2.416G	110.57	Inf	-Inf	1.02	3	Vertical	237	1.01	-
2417MHz	Pass	AV	2.39G	49.38	54.00	-4.62	1.05	3	Horizontal	144	1.82	-
2417MHz	Pass	AV	2.4178G	106.62	Inf	-Inf	1.01	3	Horizontal	144	1.82	-
2417MHz	Pass	PK	2.389G	57.31	74.00	-16.69	1.05	3	Horizontal	144	1.82	-
2417MHz	Pass	PK	2.4178G	108.70	Inf	-Inf	1.01	3	Horizontal	144	1.82	-
2437MHz	Pass	AV	2.389G	48.20	54.00	-5.80	1.05	3	Vertical	244	1.13	-
2437MHz	Pass	AV	2.4378G	109.55	Inf	-Inf	1.00	3	Vertical	244	1.13	-
2437MHz	Pass	AV	2.4846G	47.80	54.00	-6.20	0.97	3	Vertical	244	1.13	-
2437MHz	Pass	PK	2.3898G	56.51	74.00	-17.49	1.05	3	Vertical	244	1.13	-
2437MHz	Pass	PK	2.4378G	111.63	Inf	-Inf	1.00	3	Vertical	244	1.13	-
2437MHz	Pass	PK	2.4842G	55.77	74.00	-18.23	0.97	3	Vertical	244	1.13	-
2437MHz	Pass	AV	2.3886G	43.17	54.00	-10.83	1.06	3	Horizontal	144	2.06	-
2437MHz	Pass	AV	2.4362G	107.36	Inf	-Inf	1.01	3	Horizontal	144	2.06	-
2437MHz	Pass	AV	2.485G	44.06	54.00	-9.94	0.97	3	Horizontal	144	2.06	-
2437MHz	Pass	PK	2.3882G	53.90	74.00	-20.10	1.06	3	Horizontal	144	2.06	-
2437MHz	Pass	PK	2.4362G	109.37	Inf	-Inf	1.01	3	Horizontal	144	2.06	-
2437MHz	Pass	PK	2.4854G	54.00	74.00	-20.00	0.97	3	Horizontal	144	2.06	-
2437MHz	Pass	AV	4.8704G	33.53	54.00	-20.47	7.21	3	Vertical	339	1.50	-
2437MHz	Pass	AV	7.31202G	44.22	54.00	-9.78	17.28	3	Vertical	6	1.22	-
2437MHz	Pass	PK	4.8656G	45.80	74.00	-28.20	7.20	3	Vertical	339	1.50	-
2437MHz	Pass	PK	7.30764G	56.73	74.00	-17.27	17.23	3	Vertical	6	1.22	-
2437MHz	Pass	AV	4.874G	37.93	54.00	-16.07	7.21	3	Horizontal	212	2.80	-
2437MHz	Pass	AV	7.31178G	49.10	54.00	-4.90	17.28	3	Horizontal	182	1.70	-
2437MHz	Pass	PK	4.874G	46.85	74.00	-27.15	7.21	3	Horizontal	212	2.80	-
2437MHz	Pass	PK	7.314G	58.56	74.00	-15.44	17.30	3	Horizontal	182	1.70	-
2457MHz	Pass	AV	2.4562G	107.99	Inf	-Inf	0.99	3	Vertical	236	1.18	-
2457MHz	Pass	AV	2.4838G	53.81	54.00	-0.19	0.97	3	Vertical	236	1.18	-
2457MHz	Pass	PK	2.4562G	110.12	Inf	-Inf	0.99	3	Vertical	236	1.18	-
2457MHz	Pass	PK	2.4838G	59.68	74.00	-14.32	0.97	3	Vertical	236	1.18	-
2457MHz	Pass	AV	2.4578G	106.09	Inf	-Inf	0.98	3	Horizontal	145	1.55	-
2457MHz	Pass	AV	2.4838G	48.73	54.00	-5.27	0.97	3	Horizontal	145	1.55	-
2457MHz	Pass	PK	2.458G	108.13	Inf	-Inf	0.98	3	Horizontal	145	1.55	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2457MHz	Pass	PK	2.4836G	56.29	74.00	-17.71	0.97	3	Horizontal	145	1.55	-
2462MHz	Pass	AV	2.4612G	108.82	Inf	-Inf	0.99	3	Vertical	300	2.69	-
2462MHz	Pass	AV	2.4876G	53.20	54.00	-0.80	0.96	3	Vertical	300	2.69	-
2462MHz	Pass	PK	2.463G	110.88	Inf	-Inf	0.98	3	Vertical	300	2.69	-
2462MHz	Pass	PK	2.4876G	59.95	74.00	-14.05	0.96	3	Vertical	300	2.69	-
2462MHz	Pass	AV	2.4612G	106.55	Inf	-Inf	0.99	3	Horizontal	153	1.98	-
2462MHz	Pass	AV	2.4868G	48.13	54.00	-5.87	0.97	3	Horizontal	153	1.98	-
2462MHz	Pass	PK	2.4612G	108.60	Inf	-Inf	0.99	3	Horizontal	153	1.98	-
2462MHz	Pass	PK	2.4866G	56.94	74.00	-17.06	0.97	3	Horizontal	153	1.98	-
2462MHz	Pass	AV	4.92388G	34.68	54.00	-19.32	7.33	3	Vertical	29	1.50	-
2462MHz	Pass	AV	7.3851G	47.02	54.00	-6.98	17.91	3	Vertical	291	1.76	-
2462MHz	Pass	PK	4.92322G	46.47	74.00	-27.53	7.33	3	Vertical	29	1.50	-
2462MHz	Pass	PK	7.38618G	57.77	74.00	-16.23	17.92	3	Vertical	291	1.76	-
2462MHz	Pass	AV	4.924G	36.48	54.00	-17.52	7.33	3	Horizontal	212	1.45	-
2462MHz	Pass	AV	7.38672G	45.69	54.00	-8.31	17.93	3	Horizontal	313	1.50	-
2462MHz	Pass	PK	4.91698G	47.17	74.00	-26.83	7.31	3	Horizontal	212	1.45	-
2462MHz	Pass	PK	7.38714G	57.71	74.00	-16.29	17.93	3	Horizontal	313	1.50	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	52.76	54.00	-1.24	1.05	3	Vertical	277	1.01	-
2412MHz	Pass	AV	2.411G	103.40	Inf	-Inf	1.03	3	Vertical	277	1.01	-
2412MHz	Pass	PK	2.387G	67.65	74.00	-6.35	1.06	3	Vertical	277	1.01	-
2412MHz	Pass	PK	2.4114G	111.26	Inf	-Inf	1.03	3	Vertical	277	1.01	-
2412MHz	Pass	AV	2.3892G	52.61	54.00	-1.39	1.05	3	Horizontal	148	1.81	-
2412MHz	Pass	AV	2.4128G	101.22	Inf	-Inf	1.02	3	Horizontal	148	1.81	-
2412MHz	Pass	PK	2.3882G	69.11	74.00	-4.89	1.06	3	Horizontal	148	1.81	-
2412MHz	Pass	PK	2.4128G	108.71	Inf	-Inf	1.02	3	Horizontal	148	1.81	-
2412MHz	Pass	AV	4.80948G	34.22	54.00	-19.78	7.10	3	Vertical	36	1.01	-
2412MHz	Pass	PK	4.81878G	46.03	74.00	-27.97	7.12	3	Vertical	36	1.01	-
2412MHz	Pass	AV	4.81038G	34.33	54.00	-19.67	7.11	3	Horizontal	339	1.50	-
2412MHz	Pass	PK	4.81824G	45.79	74.00	-28.21	7.12	3	Horizontal	339	1.50	-
2417MHz	Pass	AV	2.39G	53.49	54.00	-0.51	1.05	3	Vertical	266	1.01	-
2417MHz	Pass	AV	2.416G	106.27	Inf	-Inf	1.02	3	Vertical	266	1.01	-
2417MHz	Pass	PK	2.39G	68.38	74.00	-5.62	1.05	3	Vertical	266	1.01	-
2417MHz	Pass	PK	2.4162G	114.29	Inf	-Inf	1.02	3	Vertical	266	1.01	-
2417MHz	Pass	AV	2.389G	53.19	54.00	-0.81	1.05	3	Horizontal	132	1.50	-
2417MHz	Pass	AV	2.4178G	102.72	Inf	-Inf	1.01	3	Horizontal	132	1.50	-
2417MHz	Pass	PK	2.3894G	68.16	74.00	-5.84	1.05	3	Horizontal	132	1.50	-
2417MHz	Pass	PK	2.4178G	110.41	Inf	-Inf	1.01	3	Horizontal	132	1.50	-
2437MHz	Pass	AV	2.3898G	47.82	54.00	-6.18	1.05	3	Vertical	274	1.49	-
2437MHz	Pass	AV	2.4362G	106.98	Inf	-Inf	1.01	3	Vertical	274	1.49	-
2437MHz	Pass	AV	2.4835G	49.05	54.00	-4.95	0.97	3	Vertical	274	1.49	-
2437MHz	Pass	PK	2.3898G	61.45	74.00	-12.55	1.05	3	Vertical	274	1.49	-
2437MHz	Pass	PK	2.4362G	114.85	Inf	-Inf	1.01	3	Vertical	274	1.49	-
2437MHz	Pass	PK	2.4838G	62.31	74.00	-11.69	0.97	3	Vertical	274	1.49	-
2437MHz	Pass	AV	2.387G	44.84	54.00	-9.16	1.06	3	Horizontal	142	1.54	-
2437MHz	Pass	AV	2.4378G	103.62	Inf	-Inf	1.00	3	Horizontal	142	1.54	-
2437MHz	Pass	AV	2.4842G	45.27	54.00	-8.73	0.97	3	Horizontal	142	1.54	-
2437MHz	Pass	PK	2.3862G	57.97	74.00	-16.03	1.07	3	Horizontal	142	1.54	-
2437MHz	Pass	PK	2.4378G	111.76	Inf	-Inf	1.00	3	Horizontal	142	1.54	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.4846G	58.59	74.00	-15.41	0.97	3	Horizontal	142	1.54	-
2437MHz	Pass	AV	4.88792G	34.63	54.00	-19.37	7.23	3	Vertical	286	2.22	-
2437MHz	Pass	AV	7.311G	45.39	54.00	-8.61	17.27	3	Vertical	216	1.51	-
2437MHz	Pass	PK	4.88756G	46.98	74.00	-27.02	7.23	3	Vertical	286	2.22	-
2437MHz	Pass	PK	7.29972G	56.99	74.00	-17.01	17.17	3	Vertical	216	1.51	-
2437MHz	Pass	AV	4.87544G	35.37	54.00	-18.63	7.22	3	Horizontal	263	2.92	-
2437MHz	Pass	AV	7.31082G	50.84	54.00	-3.16	17.27	3	Horizontal	165	1.49	-
2437MHz	Pass	PK	4.87526G	46.87	74.00	-27.13	7.22	3	Horizontal	263	2.92	-
2437MHz	Pass	PK	7.3086G	62.39	74.00	-11.61	17.24	3	Horizontal	165	1.49	-
2457MHz	Pass	AV	2.4562G	104.25	Inf	-Inf	0.99	3	Vertical	266	1.37	-
2457MHz	Pass	AV	2.4835G	53.07	54.00	-0.93	0.97	3	Vertical	266	1.37	-
2457MHz	Pass	PK	2.4562G	112.23	Inf	-Inf	0.99	3	Vertical	266	1.37	-
2457MHz	Pass	PK	2.4862G	69.74	74.00	-4.26	0.97	3	Vertical	266	1.37	-
2457MHz	Pass	AV	2.4546G	101.93	Inf	-Inf	0.99	3	Horizontal	205	1.60	-
2457MHz	Pass	AV	2.4835G	52.50	54.00	-1.50	0.97	3	Horizontal	205	1.60	-
2457MHz	Pass	PK	2.4548G	109.82	Inf	-Inf	0.99	3	Horizontal	205	1.60	-
2457MHz	Pass	PK	2.484G	67.74	74.00	-6.26	0.97	3	Horizontal	205	1.60	-
2462MHz	Pass	AV	2.461G	102.88	Inf	-Inf	0.99	3	Vertical	292	1.07	-
2462MHz	Pass	AV	2.4835G	52.78	54.00	-1.22	0.97	3	Vertical	292	1.07	-
2462MHz	Pass	PK	2.4604G	111.54	Inf	-Inf	0.99	3	Vertical	292	1.07	-
2462MHz	Pass	PK	2.486G	68.11	74.00	-5.89	0.97	3	Vertical	292	1.07	-
2462MHz	Pass	AV	2.4602G	101.00	Inf	-Inf	0.99	3	Horizontal	203	1.68	-
2462MHz	Pass	AV	2.4836G	53.78	54.00	-0.22	0.97	3	Horizontal	203	1.68	-
2462MHz	Pass	PK	2.4602G	108.88	Inf	-Inf	0.99	3	Horizontal	203	1.68	-
2462MHz	Pass	PK	2.4842G	70.05	74.00	-3.95	0.97	3	Horizontal	203	1.68	-
2462MHz	Pass	AV	4.91926G	34.60	54.00	-19.40	7.32	3	Vertical	344	1.30	-
2462MHz	Pass	AV	7.3794G	45.29	54.00	-8.71	17.87	3	Vertical	173	2.33	-
2462MHz	Pass	PK	4.93846G	46.20	74.00	-27.80	7.39	3	Vertical	344	1.30	-
2462MHz	Pass	PK	7.37478G	57.12	74.00	-16.88	17.83	3	Vertical	173	2.33	-
2462MHz	Pass	AV	4.92142G	34.74	54.00	-19.26	7.32	3	Horizontal	61	1.11	-
2462MHz	Pass	AV	7.37268G	45.22	54.00	-8.78	17.81	3	Horizontal	334	1.12	-
2462MHz	Pass	PK	4.924G	46.56	74.00	-27.44	7.33	3	Horizontal	61	1.11	-
2462MHz	Pass	PK	7.37154G	57.53	74.00	-16.47	17.80	3	Horizontal	334	1.12	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	52.85	54.00	-1.15	1.05	3	Vertical	91	2.86	-
2412MHz	Pass	AV	2.4106G	99.90	Inf	-Inf	1.03	3	Vertical	91	2.86	-
2412MHz	Pass	PK	2.39G	66.08	74.00	-7.92	1.05	3	Vertical	91	2.86	-
2412MHz	Pass	PK	2.4106G	107.27	Inf	-Inf	1.03	3	Vertical	91	2.86	-
2412MHz	Pass	AV	2.389G	48.19	54.00	-5.81	1.05	3	Horizontal	203	1.81	-
2412MHz	Pass	AV	2.4112G	97.61	Inf	-Inf	1.03	3	Horizontal	203	1.81	-
2412MHz	Pass	PK	2.3888G	62.97	74.00	-11.03	1.05	3	Horizontal	203	1.81	-
2412MHz	Pass	PK	2.4114G	105.70	Inf	-Inf	1.03	3	Horizontal	203	1.81	-
2412MHz	Pass	AV	4.8096G	34.22	54.00	-19.78	7.10	3	Vertical	68	1.91	-
2412MHz	Pass	PK	4.81272G	46.22	74.00	-27.78	7.11	3	Vertical	68	1.91	-
2412MHz	Pass	AV	4.81074G	34.21	54.00	-19.79	7.11	3	Horizontal	286	2.25	-
2412MHz	Pass	PK	4.81062G	46.06	74.00	-27.94	7.11	3	Horizontal	286	2.25	-
2417MHz	Pass	AV	2.3896G	52.26	54.00	-1.74	1.05	3	Vertical	263	1.11	-
2417MHz	Pass	AV	2.4164G	103.84	Inf	-Inf	1.02	3	Vertical	263	1.11	-
2417MHz	Pass	PK	2.3892G	67.85	74.00	-6.15	1.05	3	Vertical	263	1.11	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2417MHz	Pass	PK	2.419G	111.95	Inf	-Inf	1.01	3	Vertical	263	1.11	-
2417MHz	Pass	AV	2.39G	49.51	54.00	-4.49	1.05	3	Horizontal	138	1.50	-
2417MHz	Pass	AV	2.4148G	100.11	Inf	-Inf	1.02	3	Horizontal	138	1.50	-
2417MHz	Pass	PK	2.389G	67.14	74.00	-6.86	1.05	3	Horizontal	138	1.50	-
2417MHz	Pass	PK	2.4164G	109.41	Inf	-Inf	1.02	3	Horizontal	138	1.50	-
2437MHz	Pass	AV	2.3886G	46.64	54.00	-7.36	1.06	3	Vertical	278	1.28	-
2437MHz	Pass	AV	2.4362G	106.01	Inf	-Inf	1.01	3	Vertical	278	1.28	-
2437MHz	Pass	AV	2.4835G	50.52	54.00	-3.48	0.97	3	Vertical	278	1.28	-
2437MHz	Pass	PK	2.3882G	60.87	74.00	-13.13	1.06	3	Vertical	278	1.28	-
2437MHz	Pass	PK	2.439G	114.13	Inf	-Inf	1.00	3	Vertical	278	1.28	-
2437MHz	Pass	PK	2.4854G	64.58	74.00	-9.42	0.97	3	Vertical	278	1.28	-
2437MHz	Pass	AV	2.3898G	46.91	54.00	-7.09	1.05	3	Horizontal	207	1.60	-
2437MHz	Pass	AV	2.4382G	103.08	Inf	-Inf	1.00	3	Horizontal	207	1.60	-
2437MHz	Pass	AV	2.4846G	45.81	54.00	-8.19	0.97	3	Horizontal	207	1.60	-
2437MHz	Pass	PK	2.3874G	61.45	74.00	-12.55	1.06	3	Horizontal	207	1.60	-
2437MHz	Pass	PK	2.4362G	111.19	Inf	-Inf	1.01	3	Horizontal	207	1.60	-
2437MHz	Pass	PK	2.4854G	59.47	74.00	-14.53	0.97	3	Horizontal	207	1.60	-
2437MHz	Pass	AV	4.8716G	34.95	54.00	-19.05	7.21	3	Vertical	117	2.14	-
2437MHz	Pass	AV	7.30926G	45.20	54.00	-8.80	17.25	3	Vertical	181	2.16	-
2437MHz	Pass	PK	4.86398G	46.16	74.00	-27.84	7.19	3	Vertical	117	2.14	-
2437MHz	Pass	PK	7.3101G	56.83	74.00	-17.17	17.26	3	Vertical	181	2.16	-
2437MHz	Pass	AV	4.87058G	34.32	54.00	-19.68	7.21	3	Horizontal	9	2.23	-
2437MHz	Pass	AV	7.32306G	45.25	54.00	-8.75	17.38	3	Horizontal	130	1.76	-
2437MHz	Pass	PK	4.87874G	45.81	74.00	-28.19	7.22	3	Horizontal	9	2.23	-
2437MHz	Pass	PK	7.32084G	57.05	74.00	-16.95	17.35	3	Horizontal	130	1.76	-
2457MHz	Pass	AV	2.4564G	101.58	Inf	-Inf	0.99	3	Vertical	98	1.20	-
2457MHz	Pass	AV	2.4835G	52.41	54.00	-1.59	0.97	3	Vertical	98	1.20	-
2457MHz	Pass	PK	2.4562G	111.56	Inf	-Inf	0.99	3	Vertical	98	1.20	-
2457MHz	Pass	PK	2.484G	69.54	74.00	-4.46	0.97	3	Vertical	98	1.20	-
2457MHz	Pass	AV	2.456G	99.21	Inf	-Inf	0.99	3	Horizontal	195	1.99	-
2457MHz	Pass	AV	2.4836G	53.97	54.00	-0.03	0.97	3	Horizontal	195	1.99	-
2457MHz	Pass	PK	2.4562G	108.18	Inf	-Inf	0.99	3	Horizontal	195	1.99	-
2457MHz	Pass	PK	2.484G	70.09	74.00	-3.91	0.97	3	Horizontal	195	1.99	-
2462MHz	Pass	AV	2.4606G	100.30	Inf	-Inf	0.99	3	Vertical	105	2.69	-
2462MHz	Pass	AV	2.4835G	53.34	54.00	-0.66	0.97	3	Vertical	105	2.69	-
2462MHz	Pass	PK	2.4608G	107.71	Inf	-Inf	0.99	3	Vertical	105	2.69	-
2462MHz	Pass	PK	2.4835G	67.93	74.00	-6.07	0.97	3	Vertical	105	2.69	-
2462MHz	Pass	AV	2.4612G	97.86	Inf	-Inf	0.99	3	Horizontal	203	1.69	-
2462MHz	Pass	AV	2.4835G	51.00	54.00	-3.00	0.97	3	Horizontal	203	1.69	-
2462MHz	Pass	PK	2.4614G	106.02	Inf	-Inf	0.99	3	Horizontal	203	1.69	-
2462MHz	Pass	PK	2.4835G	66.27	74.00	-7.73	0.97	3	Horizontal	203	1.69	-
2462MHz	Pass	AV	4.91632G	34.76	54.00	-19.24	7.31	3	Vertical	156	1.12	-
2462MHz	Pass	AV	7.38024G	45.20	54.00	-8.80	17.88	3	Vertical	7	2.35	-
2462MHz	Pass	PK	4.92952G	46.55	74.00	-27.45	7.35	3	Vertical	156	1.12	-
2462MHz	Pass	PK	7.38126G	57.09	74.00	-16.91	17.88	3	Vertical	7	2.35	-
2462MHz	Pass	AV	4.92424G	34.56	54.00	-19.44	7.33	3	Horizontal	140	1.03	-
2462MHz	Pass	AV	7.37886G	45.19	54.00	-8.81	17.86	3	Horizontal	153	1.28	-
2462MHz	Pass	PK	4.9189G	46.43	74.00	-27.57	7.32	3	Horizontal	140	1.03	-
2462MHz	Pass	PK	7.38408G	57.06	74.00	-16.94	17.91	3	Horizontal	153	1.28	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.3892G	52.43	54.00	-1.57	1.05	3	Vertical	73	2.59	-
2422MHz	Pass	AV	2.4208G	95.57	Inf	-Inf	1.01	3	Vertical	73	2.59	-
2422MHz	Pass	AV	2.4888G	43.37	54.00	-10.63	0.96	3	Vertical	73	2.59	-
2422MHz	Pass	PK	2.3896G	66.50	74.00	-7.50	1.05	3	Vertical	73	2.59	-
2422MHz	Pass	PK	2.4196G	102.78	Inf	-Inf	1.01	3	Vertical	73	2.59	-
2422MHz	Pass	PK	2.4908G	53.30	74.00	-20.70	0.96	3	Vertical	73	2.59	-
2422MHz	Pass	AV	2.3888G	50.59	54.00	-3.41	1.05	3	Horizontal	206	1.67	-
2422MHz	Pass	AV	2.4208G	93.11	Inf	-Inf	1.01	3	Horizontal	206	1.67	-
2422MHz	Pass	AV	2.492G	43.10	54.00	-10.90	0.97	3	Horizontal	206	1.67	-
2422MHz	Pass	PK	2.39G	64.06	74.00	-9.94	1.05	3	Horizontal	206	1.67	-
2422MHz	Pass	PK	2.4196G	99.92	Inf	-Inf	1.01	3	Horizontal	206	1.67	-
2422MHz	Pass	PK	2.4848G	53.13	74.00	-20.87	0.97	3	Horizontal	206	1.67	-
2422MHz	Pass	AV	4.85852G	34.99	54.00	-19.01	7.19	3	Vertical	131	1.27	-
2422MHz	Pass	AV	7.2717G	45.06	54.00	-8.94	16.83	3	Vertical	139	2.03	-
2422MHz	Pass	PK	4.85348G	46.09	74.00	-27.91	7.18	3	Vertical	131	1.27	-
2422MHz	Pass	PK	7.27332G	56.19	74.00	-17.81	16.86	3	Vertical	139	2.03	-
2422MHz	Pass	AV	4.84994G	35.11	54.00	-18.89	7.16	3	Horizontal	286	2.08	-
2422MHz	Pass	AV	7.28064G	45.11	54.00	-8.89	16.95	3	Horizontal	251	1.87	-
2422MHz	Pass	PK	4.85G	45.94	74.00	-28.06	7.17	3	Horizontal	286	2.08	-
2422MHz	Pass	PK	7.25736G	56.35	74.00	-17.65	16.66	3	Horizontal	251	1.87	-
2427MHz	Pass	AV	2.3894G	53.16	54.00	-0.84	1.05	3	Vertical	260	1.29	-
2427MHz	Pass	AV	2.429G	95.31	Inf	-Inf	1.01	3	Vertical	260	1.29	-
2427MHz	Pass	AV	2.4986G	45.80	54.00	-8.20	0.96	3	Vertical	260	1.29	-
2427MHz	Pass	PK	2.3894G	66.06	74.00	-7.94	1.05	3	Vertical	260	1.29	-
2427MHz	Pass	PK	2.4238G	103.03	Inf	-Inf	1.01	3	Vertical	260	1.29	-
2427MHz	Pass	PK	2.4982G	55.78	74.00	-18.22	0.96	3	Vertical	260	1.29	-
2427MHz	Pass	AV	2.389G	51.31	54.00	-2.69	1.05	3	Horizontal	194	2.28	-
2427MHz	Pass	AV	2.4286G	94.53	Inf	-Inf	1.01	3	Horizontal	194	2.28	-
2427MHz	Pass	AV	2.4986G	44.03	54.00	-9.97	0.96	3	Horizontal	194	2.28	-
2427MHz	Pass	PK	2.389G	65.16	74.00	-8.84	1.05	3	Horizontal	194	2.28	-
2427MHz	Pass	PK	2.4286G	101.90	Inf	-Inf	1.01	3	Horizontal	194	2.28	-
2427MHz	Pass	PK	2.4978G	54.71	74.00	-19.29	0.96	3	Horizontal	194	2.28	-
2437MHz	Pass	AV	2.389G	52.24	54.00	-1.76	1.05	3	Vertical	276	1.28	-
2437MHz	Pass	AV	2.4338G	99.46	Inf	-Inf	1.00	3	Vertical	276	1.28	-
2437MHz	Pass	AV	2.4835G	52.78	54.00	-1.22	0.97	3	Vertical	276	1.28	-
2437MHz	Pass	PK	2.3894G	64.48	74.00	-9.52	1.05	3	Vertical	276	1.28	-
2437MHz	Pass	PK	2.4338G	107.33	Inf	-Inf	1.00	3	Vertical	276	1.28	-
2437MHz	Pass	PK	2.4838G	65.19	74.00	-8.81	0.97	3	Vertical	276	1.28	-
2437MHz	Pass	AV	2.389G	50.59	54.00	-3.41	1.05	3	Horizontal	207	1.60	-
2437MHz	Pass	AV	2.4382G	97.37	Inf	-Inf	1.00	3	Horizontal	207	1.60	-
2437MHz	Pass	AV	2.4835G	50.82	54.00	-3.18	0.97	3	Horizontal	207	1.60	-
2437MHz	Pass	PK	2.3886G	63.02	74.00	-10.98	1.06	3	Horizontal	207	1.60	-
2437MHz	Pass	PK	2.4386G	104.17	Inf	-Inf	1.00	3	Horizontal	207	1.60	-
2437MHz	Pass	PK	2.4835G	63.40	74.00	-10.60	0.97	3	Horizontal	207	1.60	-
2437MHz	Pass	AV	4.88324G	35.00	54.00	-19.00	7.22	3	Vertical	132	1.84	-
2437MHz	Pass	AV	7.30746G	45.92	54.00	-8.08	17.23	3	Vertical	215	2.15	-
2437MHz	Pass	PK	4.88402G	45.64	74.00	-28.36	7.22	3	Vertical	132	1.84	-
2437MHz	Pass	PK	7.31892G	56.92	74.00	-17.08	17.33	3	Vertical	215	2.15	-

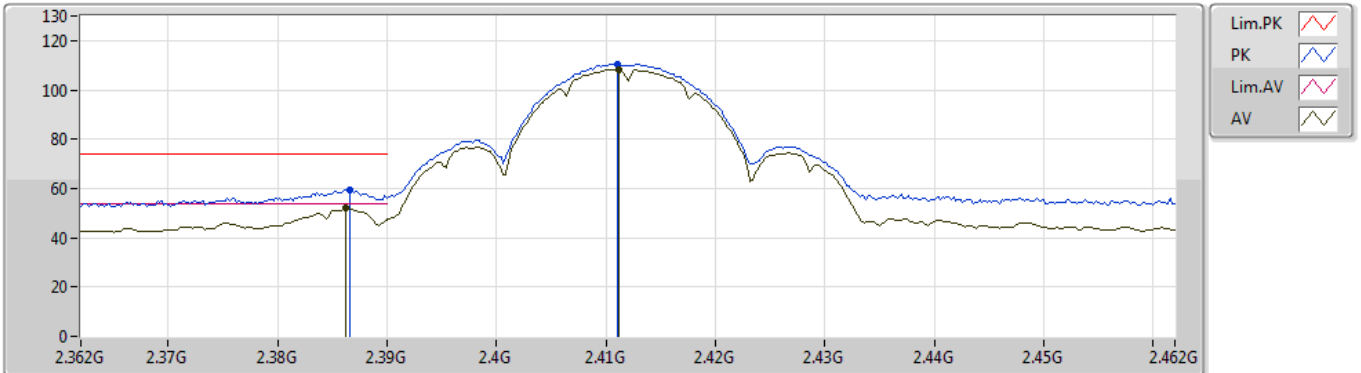


Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	AV	4.88012G	35.29	54.00	-18.71	7.22	3	Horizontal	192	1.34	-
2437MHz	Pass	AV	7.32024G	46.51	54.00	-7.49	17.35	3	Horizontal	309	1.82	-
2437MHz	Pass	PK	4.85978G	45.71	74.00	-28.29	7.19	3	Horizontal	192	1.34	-
2437MHz	Pass	PK	7.31754G	57.80	74.00	-16.20	17.33	3	Horizontal	309	1.82	-
2447MHz	Pass	AV	2.3886G	44.52	54.00	-9.48	1.06	3	Vertical	94	1.17	-
2447MHz	Pass	AV	2.4486G	96.15	Inf	-Inf	0.99	3	Vertical	94	1.17	-
2447MHz	Pass	AV	2.4838G	53.62	54.00	-0.38	0.97	3	Vertical	94	1.17	-
2447MHz	Pass	PK	2.3694G	54.74	74.00	-19.26	1.11	3	Vertical	94	1.17	-
2447MHz	Pass	PK	2.4506G	103.39	Inf	-Inf	1.00	3	Vertical	94	1.17	-
2447MHz	Pass	PK	2.4846G	66.19	74.00	-7.81	0.97	3	Vertical	94	1.17	-
2447MHz	Pass	AV	2.3898G	43.14	54.00	-10.86	1.05	3	Horizontal	209	2.05	-
2447MHz	Pass	AV	2.4458G	94.32	Inf	-Inf	1.00	3	Horizontal	209	2.05	-
2447MHz	Pass	AV	2.4835G	51.89	54.00	-2.11	0.97	3	Horizontal	209	2.05	-
2447MHz	Pass	PK	2.373G	54.36	74.00	-19.64	1.11	3	Horizontal	209	2.05	-
2447MHz	Pass	PK	2.4446G	101.60	Inf	-Inf	1.00	3	Horizontal	209	2.05	-
2447MHz	Pass	PK	2.4846G	65.09	74.00	-8.91	0.97	3	Horizontal	209	2.05	-
2452MHz	Pass	AV	2.3792G	44.28	54.00	-9.72	1.09	3	Vertical	276	1.20	-
2452MHz	Pass	AV	2.454G	95.82	Inf	-Inf	0.99	3	Vertical	276	1.20	-
2452MHz	Pass	AV	2.484G	53.20	54.00	-0.80	0.97	3	Vertical	276	1.20	-
2452MHz	Pass	PK	2.3696G	54.90	74.00	-19.10	1.11	3	Vertical	276	1.20	-
2452MHz	Pass	PK	2.4488G	104.05	Inf	-Inf	0.99	3	Vertical	276	1.20	-
2452MHz	Pass	PK	2.484G	65.82	74.00	-8.18	0.97	3	Vertical	276	1.20	-
2452MHz	Pass	AV	2.3788G	43.54	54.00	-10.46	1.09	3	Horizontal	205	1.53	-
2452MHz	Pass	AV	2.4532G	94.13	Inf	-Inf	0.99	3	Horizontal	205	1.53	-
2452MHz	Pass	AV	2.4835G	52.24	54.00	-1.76	0.97	3	Horizontal	205	1.53	-
2452MHz	Pass	PK	2.3612G	53.76	74.00	-20.24	1.14	3	Horizontal	205	1.53	-
2452MHz	Pass	PK	2.4532G	100.61	Inf	-Inf	0.99	3	Horizontal	205	1.53	-
2452MHz	Pass	PK	2.484G	64.45	74.00	-9.55	0.97	3	Horizontal	205	1.53	-
2452MHz	Pass	AV	4.91702G	35.30	54.00	-18.70	7.31	3	Vertical	44	1.46	-
2452MHz	Pass	AV	7.34946G	45.90	54.00	-8.10	17.60	3	Vertical	208	2.22	-
2452MHz	Pass	PK	4.89242G	46.02	74.00	-27.98	7.24	3	Vertical	44	1.46	-
2452MHz	Pass	PK	7.3515G	57.22	74.00	-16.78	17.62	3	Vertical	208	2.22	-
2452MHz	Pass	AV	4.90808G	35.34	54.00	-18.66	7.27	3	Horizontal	357	1.72	-
2452MHz	Pass	AV	7.34736G	45.96	54.00	-8.04	17.58	3	Horizontal	140	1.87	-
2452MHz	Pass	PK	4.90244G	46.30	74.00	-27.70	7.26	3	Horizontal	357	1.72	-
2452MHz	Pass	PK	7.35666G	56.73	74.00	-17.27	17.66	3	Horizontal	140	1.87	-

802.11b_Nss1,(1Mbps)_2TX

24/04/2019

2412MHz_TX

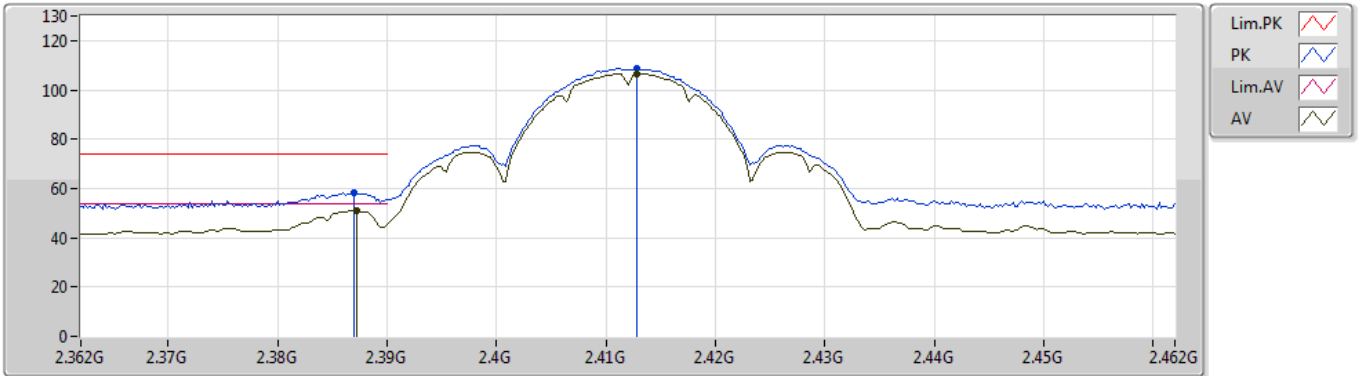


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3862G	51.90	54.00	-2.10	1.07	3	Vertical	246	1.01	-				
AV	2.4112G	108.31	Inf	-Inf	1.03	3	Vertical	246	1.01	-				
PK	2.3866G	59.47	74.00	-14.53	1.06	3	Vertical	246	1.01	-				
PK	2.411G	110.44	Inf	-Inf	1.03	3	Vertical	246	1.01	-				

802.11b_Nss1,(1Mbps)_2TX

24/04/2019

2412MHz_TX

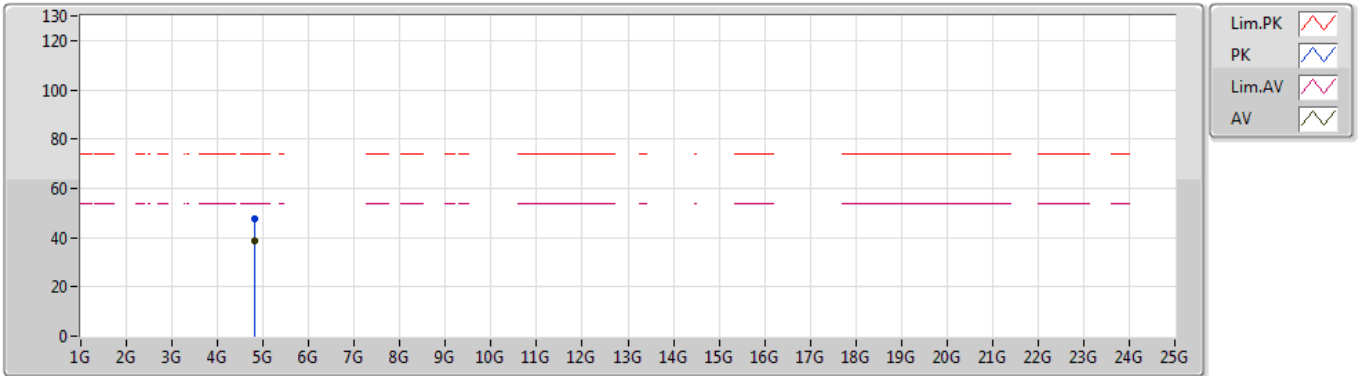


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3872G	51.25	54.00	-2.75	1.06	3	Horizontal	154	2.34	-				
AV	2.4128G	106.52	Inf	-Inf	1.02	3	Horizontal	154	2.34	-				
PK	2.387G	58.33	74.00	-15.67	1.06	3	Horizontal	154	2.34	-				
PK	2.4128G	108.62	Inf	-Inf	1.02	3	Horizontal	154	2.34	-				

802.11b_Nss1,(1Mbps)_2TX

24/04/2019

2412MHz_TX

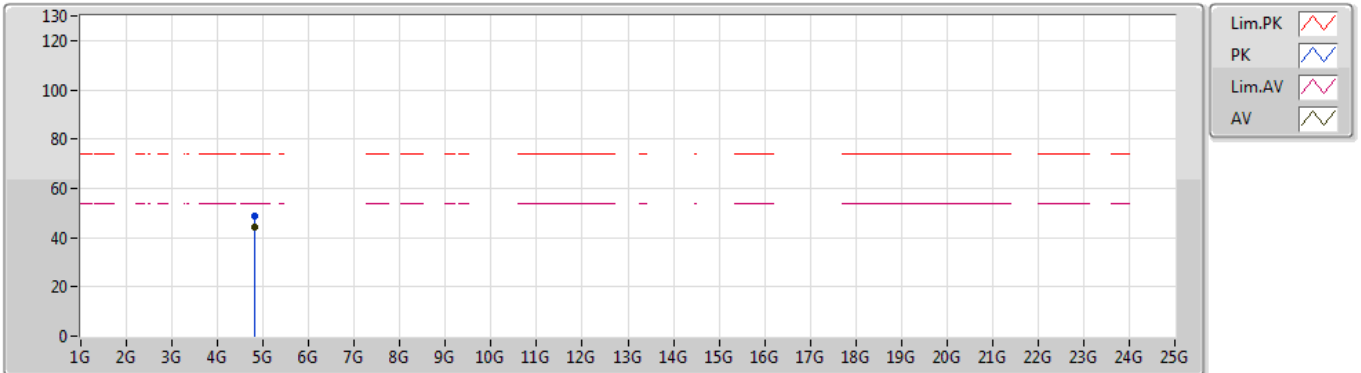


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.82394G	38.83	54.00	-15.17	7.12	3	Vertical	193	1.67	-				
PK	4.824G	47.87	74.00	-26.13	7.12	3	Vertical	193	1.67	-				

802.11b_Nss1,(1Mbps)_2TX

24/04/2019

2412MHz_TX

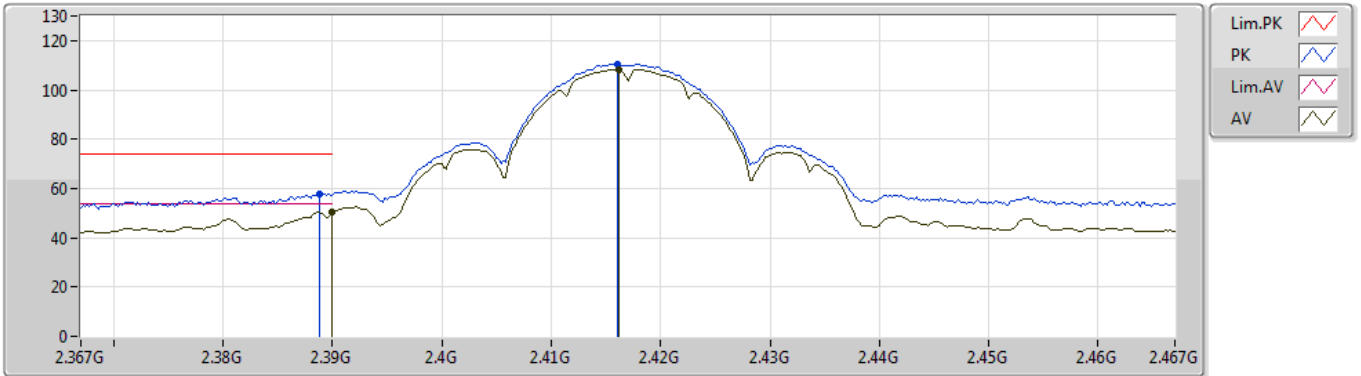


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.824G	44.09	54.00	-9.91	7.12	3	Horizontal	209	2.58	-				
PK	4.82406G	48.99	74.00	-25.01	7.12	3	Horizontal	209	2.58	-				

802.11b_Nss1,(1Mbps)_2TX

30/04/2019

2417MHz_TX

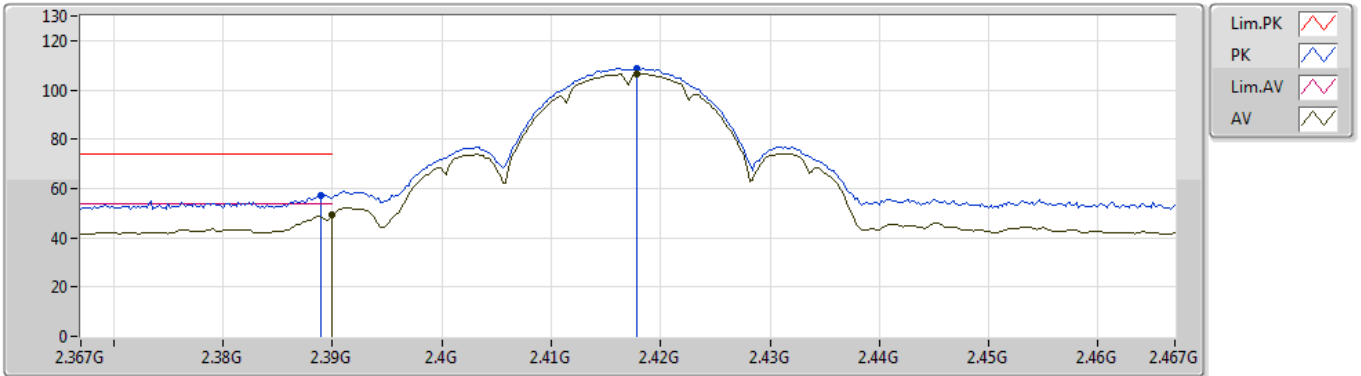


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	50.43	54.00	-3.57	1.05	3	Vertical	237	1.01	-				
AV	2.4162G	108.38	Inf	-Inf	1.02	3	Vertical	237	1.01	-				
PK	2.3888G	57.99	74.00	-16.01	1.05	3	Vertical	237	1.01	-				
PK	2.416G	110.57	Inf	-Inf	1.02	3	Vertical	237	1.01	-				

802.11b_Nss1,(1Mbps)_2TX

30/04/2019

2417MHz_TX

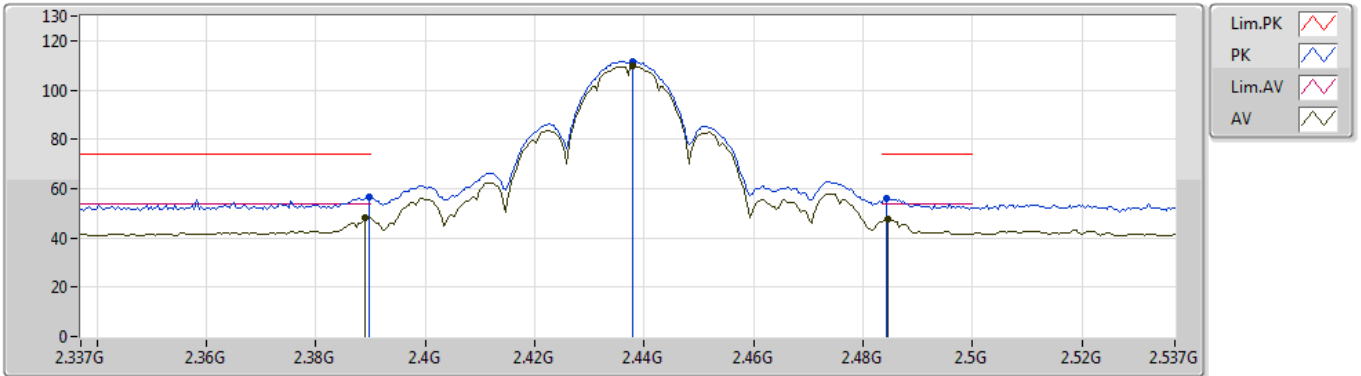


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	49.38	54.00	-4.62	1.05	3	Horizontal	144	1.82	-				
AV	2.4178G	106.62	Inf	-Inf	1.01	3	Horizontal	144	1.82	-				
PK	2.389G	57.31	74.00	-16.69	1.05	3	Horizontal	144	1.82	-				
PK	2.4178G	108.70	Inf	-Inf	1.01	3	Horizontal	144	1.82	-				

802.11b_Nss1,(1Mbps)_2TX

25/04/2019

2437MHz_TX

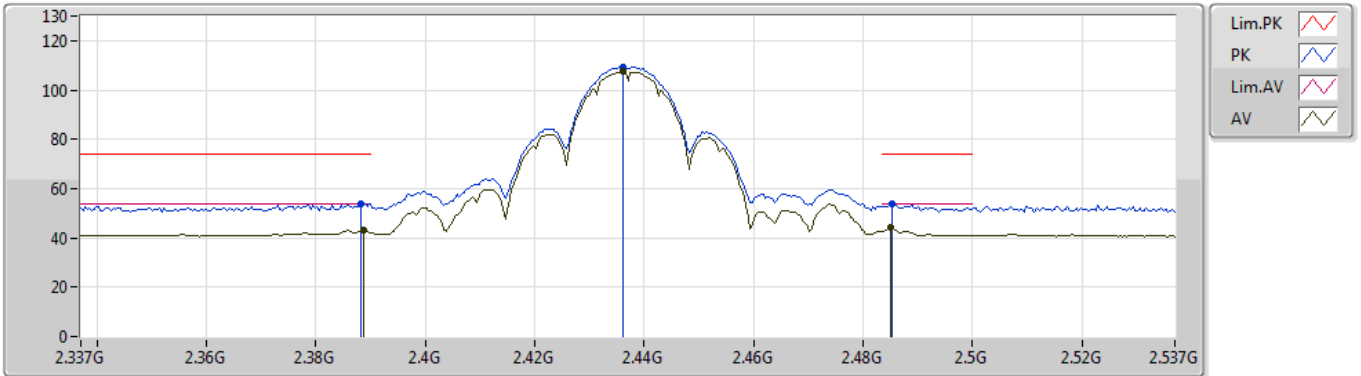


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.389G	48.20	54.00	-5.80	1.05	3	Vertical	244	1.13	-				
AV	2.4378G	109.55	Inf	-Inf	1.00	3	Vertical	244	1.13	-				
AV	2.4846G	47.80	54.00	-6.20	0.97	3	Vertical	244	1.13	-				
PK	2.3898G	56.51	74.00	-17.49	1.05	3	Vertical	244	1.13	-				
PK	2.4378G	111.63	Inf	-Inf	1.00	3	Vertical	244	1.13	-				
PK	2.4842G	55.77	74.00	-18.23	0.97	3	Vertical	244	1.13	-				

802.11b_Nss1,(1Mbps)_2TX

25/04/2019

2437MHz_TX

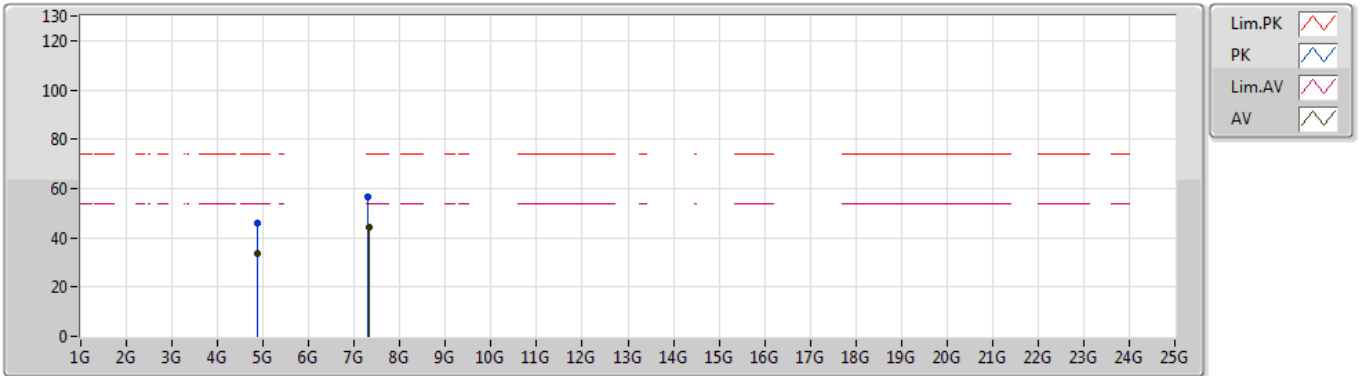


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3886G	43.17	54.00	-10.83	1.06	3	Horizontal	144	2.06	-				
AV	2.4362G	107.36	Inf	-Inf	1.01	3	Horizontal	144	2.06	-				
AV	2.485G	44.06	54.00	-9.94	0.97	3	Horizontal	144	2.06	-				
PK	2.3882G	53.90	74.00	-20.10	1.06	3	Horizontal	144	2.06	-				
PK	2.4362G	109.37	Inf	-Inf	1.01	3	Horizontal	144	2.06	-				
PK	2.4854G	54.00	74.00	-20.00	0.97	3	Horizontal	144	2.06	-				

802.11b_Nss1,(1Mbps)_2TX

25/04/2019

2437MHz_TX

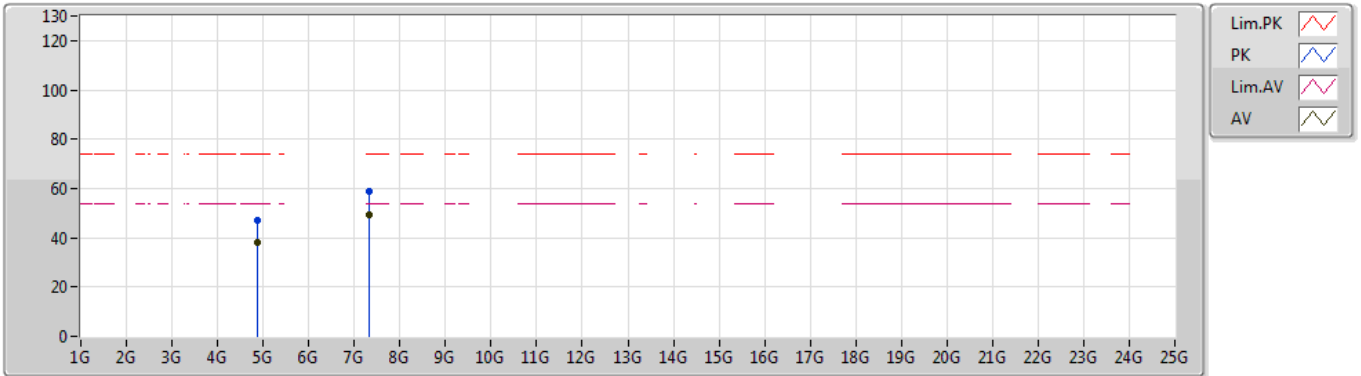


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.8704G	33.53	54.00	-20.47	7.21	3	Vertical	339	1.50	-				
AV	7.31202G	44.22	54.00	-9.78	17.28	3	Vertical	6	1.22	-				
PK	4.8656G	45.80	74.00	-28.20	7.20	3	Vertical	339	1.50	-				
PK	7.30764G	56.73	74.00	-17.27	17.23	3	Vertical	6	1.22	-				

802.11b_Nss1,(1Mbps)_2TX

25/04/2019

2437MHz_TX

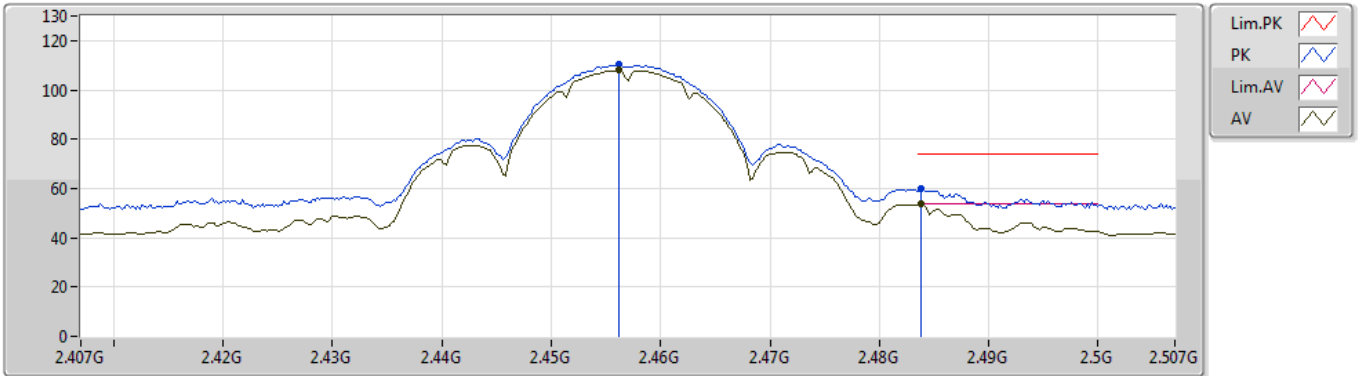


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.874G	37.93	54.00	-16.07	7.21	3	Horizontal	212	2.80	-				
AV	7.31178G	49.10	54.00	-4.90	17.28	3	Horizontal	182	1.70	-				
PK	4.874G	46.85	74.00	-27.15	7.21	3	Horizontal	212	2.80	-				
PK	7.314G	58.56	74.00	-15.44	17.30	3	Horizontal	182	1.70	-				

802.11b_Nss1,(1Mbps)_2TX

26/04/2019

2457MHz_TX

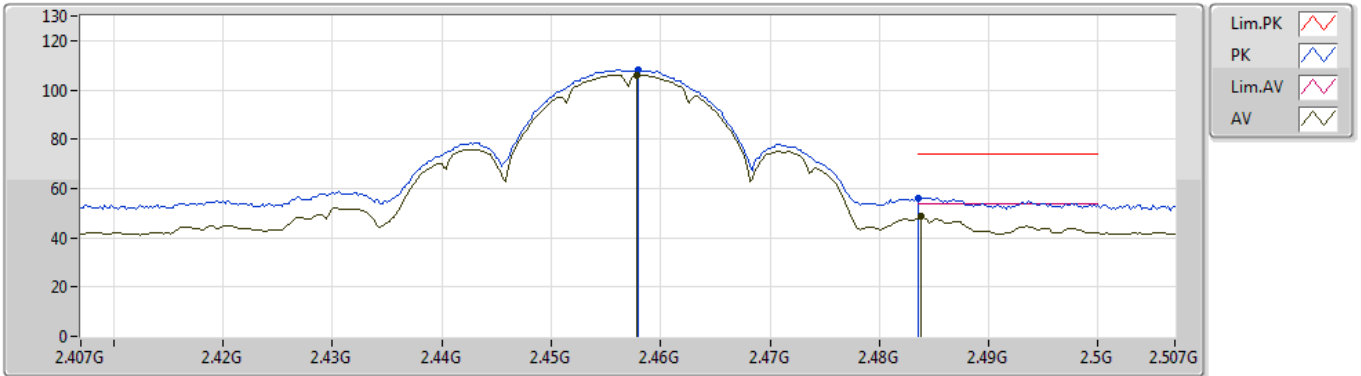


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4562G	107.99	Inf	-Inf	0.99	3	Vertical	236	1.18	-				
AV	2.4838G	53.81	54.00	-0.19	0.97	3	Vertical	236	1.18	-				
PK	2.4562G	110.12	Inf	-Inf	0.99	3	Vertical	236	1.18	-				
PK	2.4838G	59.68	74.00	-14.32	0.97	3	Vertical	236	1.18	-				

802.11b_Nss1,(1Mbps)_2TX

26/04/2019

2457MHz_TX

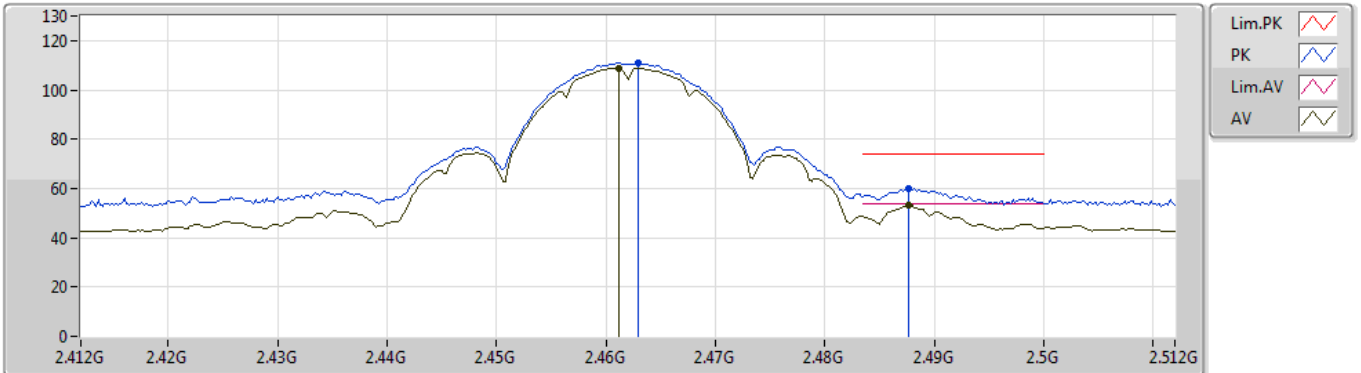


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4578G	106.09	Inf	-Inf	0.98	3	Horizontal	145	1.55	-				
AV	2.4838G	48.73	54.00	-5.27	0.97	3	Horizontal	145	1.55	-				
PK	2.458G	108.13	Inf	-Inf	0.98	3	Horizontal	145	1.55	-				
PK	2.4836G	56.29	74.00	-17.71	0.97	3	Horizontal	145	1.55	-				

802.11b_Nss1,(1Mbps)_2TX

25/04/2019

2462MHz_TX

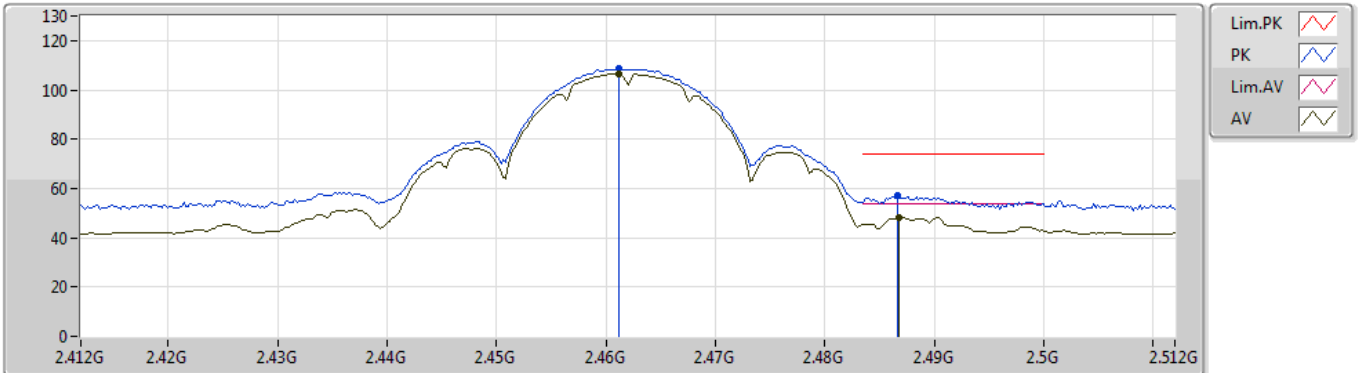


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4612G	108.82	Inf	-Inf	0.99	3	Vertical	300	2.69	-				
AV	2.4876G	53.20	54.00	-0.80	0.96	3	Vertical	300	2.69	-				
PK	2.463G	110.88	Inf	-Inf	0.98	3	Vertical	300	2.69	-				
PK	2.4876G	59.95	74.00	-14.05	0.96	3	Vertical	300	2.69	-				

802.11b_Nss1,(1Mbps)_2TX

25/04/2019

2462MHz_TX

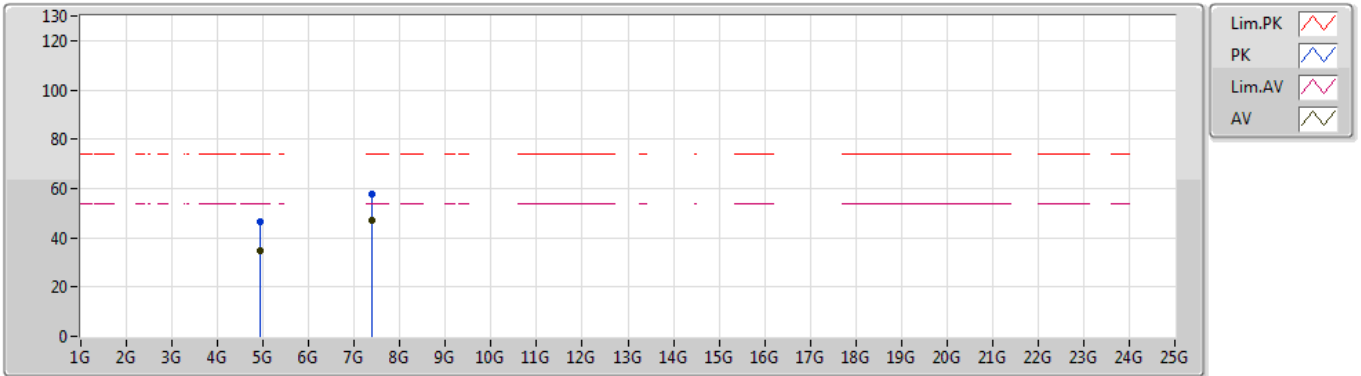


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4612G	106.55	Inf	-Inf	0.99	3	Horizontal	153	1.98	-				
AV	2.4868G	48.13	54.00	-5.87	0.97	3	Horizontal	153	1.98	-				
PK	2.4612G	108.60	Inf	-Inf	0.99	3	Horizontal	153	1.98	-				
PK	2.4866G	56.94	74.00	-17.06	0.97	3	Horizontal	153	1.98	-				

802.11b_Nss1,(1Mbps)_2TX

25/04/2019

2462MHz_TX

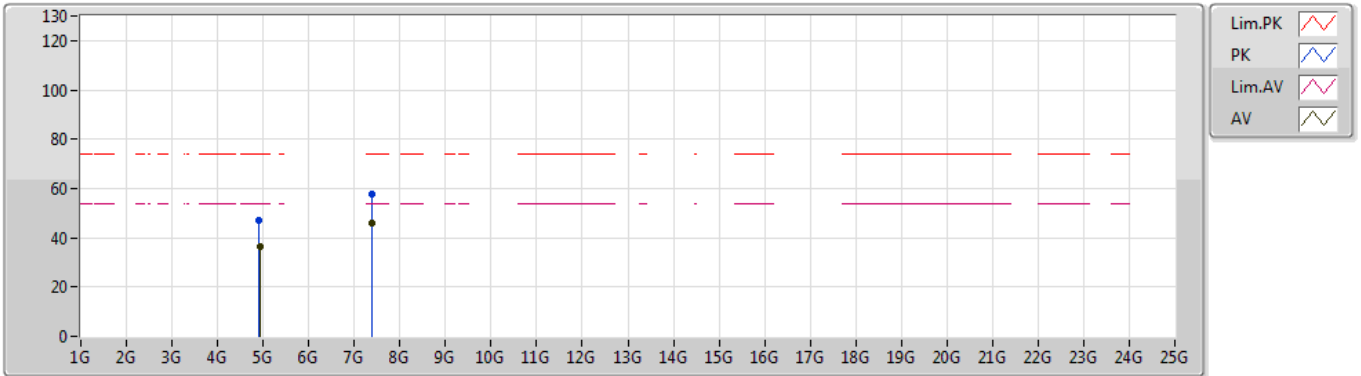


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.92388G	34.68	54.00	-19.32	7.33	3	Vertical	29	1.50	-				
AV	7.3851G	47.02	54.00	-6.98	17.91	3	Vertical	291	1.76	-				
PK	4.92322G	46.47	74.00	-27.53	7.33	3	Vertical	29	1.50	-				
PK	7.38618G	57.77	74.00	-16.23	17.92	3	Vertical	291	1.76	-				

802.11b_Nss1,(1Mbps)_2TX

25/04/2019

2462MHz_TX

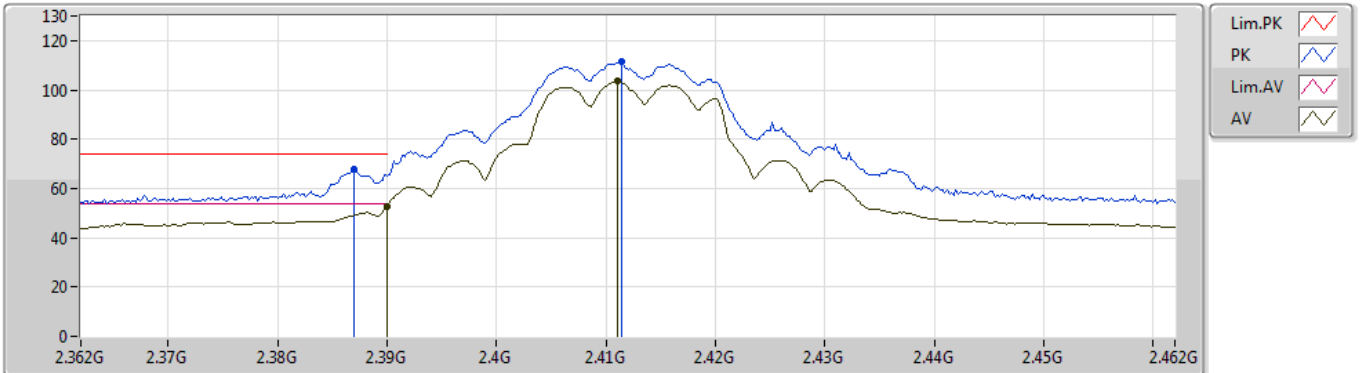


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.924G	36.48	54.00	-17.52	7.33	3	Horizontal	212	1.45	-				
AV	7.38672G	45.69	54.00	-8.31	17.93	3	Horizontal	313	1.50	-				
PK	4.91698G	47.17	74.00	-26.83	7.31	3	Horizontal	212	1.45	-				
PK	7.38714G	57.71	74.00	-16.29	17.93	3	Horizontal	313	1.50	-				

802.11g_Nss1,(6Mbps)_2TX

25/04/2019

2412MHz_TX

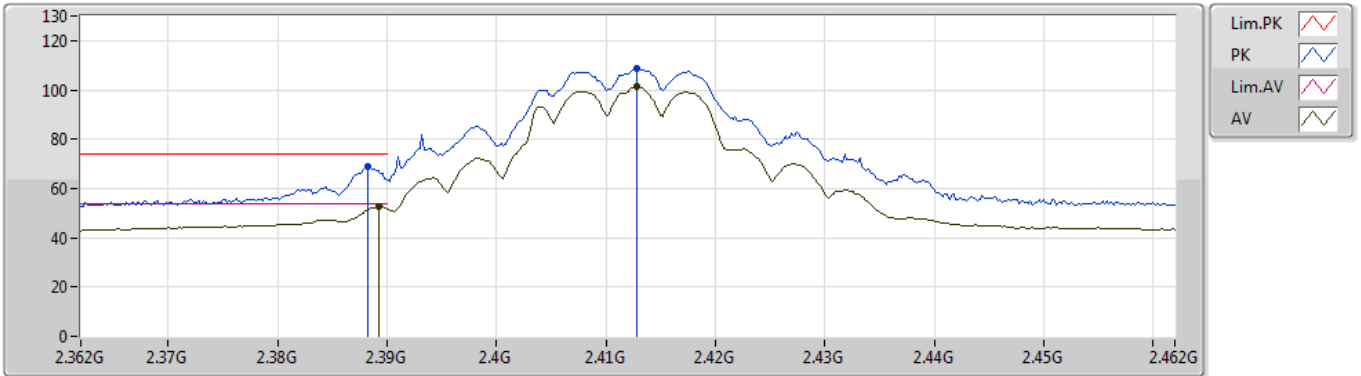


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	52.76	54.00	-1.24	1.05	3	Vertical	277	1.01	-				
AV	2.411G	103.40	Inf	-Inf	1.03	3	Vertical	277	1.01	-				
PK	2.387G	67.65	74.00	-6.35	1.06	3	Vertical	277	1.01	-				
PK	2.4114G	111.26	Inf	-Inf	1.03	3	Vertical	277	1.01	-				

802.11g_Nss1,(6Mbps)_2TX

25/04/2019

2412MHz_TX

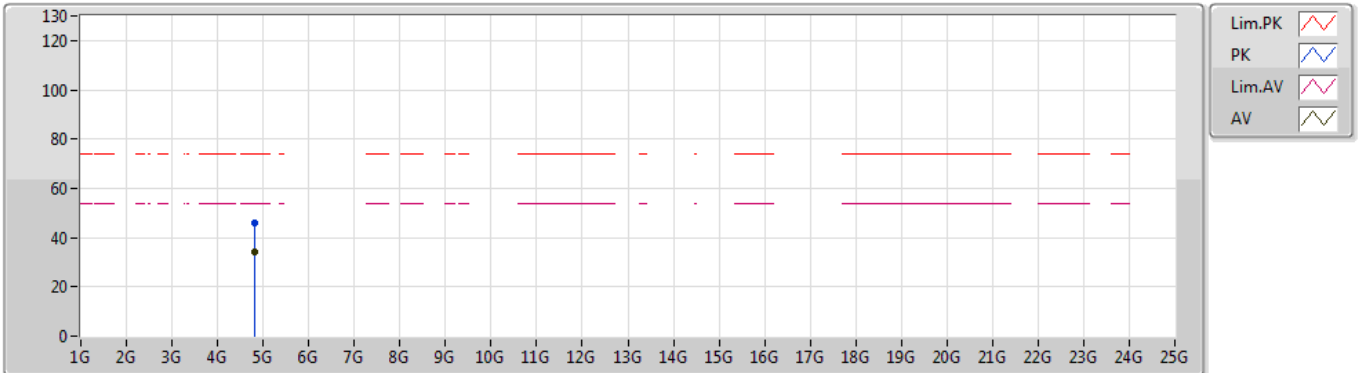


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3892G	52.61	54.00	-1.39	1.05	3	Horizontal	148	1.81	-				
AV	2.4128G	101.22	Inf	-Inf	1.02	3	Horizontal	148	1.81	-				
PK	2.3882G	69.11	74.00	-4.89	1.06	3	Horizontal	148	1.81	-				
PK	2.4128G	108.71	Inf	-Inf	1.02	3	Horizontal	148	1.81	-				

802.11g_Nss1,(6Mbps)_2TX

25/04/2019

2412MHz_TX

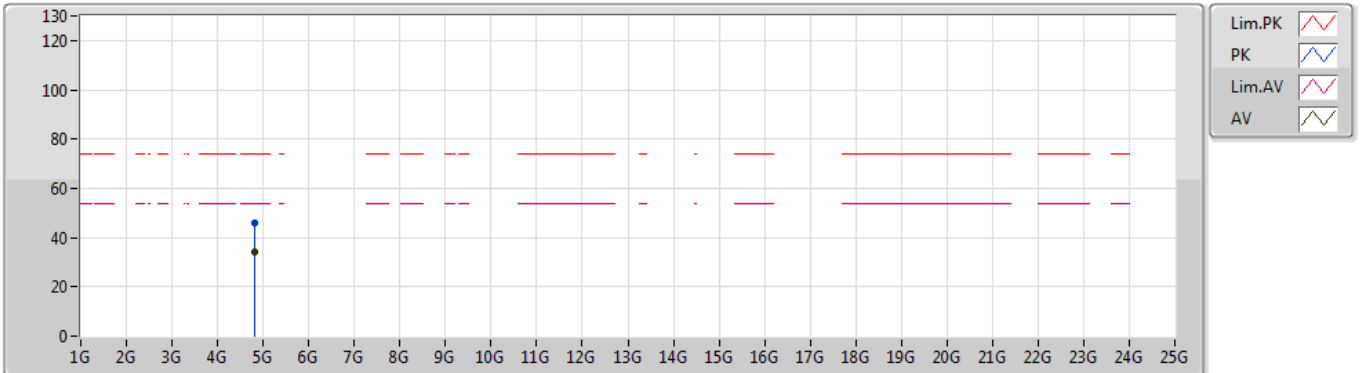


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.80948G	34.22	54.00	-19.78	7.10	3	Vertical	36	1.01	-				
PK	4.81878G	46.03	74.00	-27.97	7.12	3	Vertical	36	1.01	-				

802.11g_Nss1,(6Mbps)_2TX

25/04/2019

2412MHz_TX

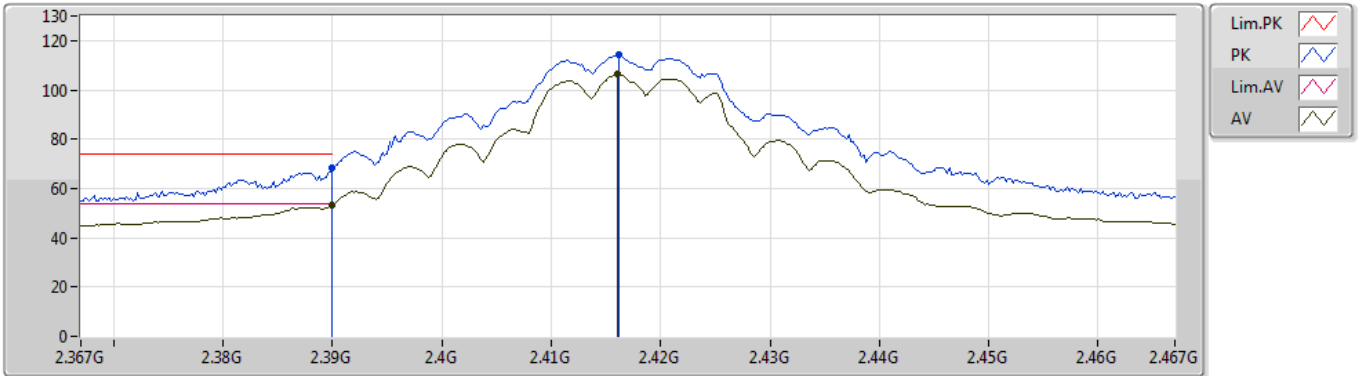


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.81038G	34.33	54.00	-19.67	7.11	3	Horizontal	339	1.50	-				
PK	4.81824G	45.79	74.00	-28.21	7.12	3	Horizontal	339	1.50	-				

802.11g_Nss1,(6Mbps)_2TX

26/04/2019

2417MHz_TX

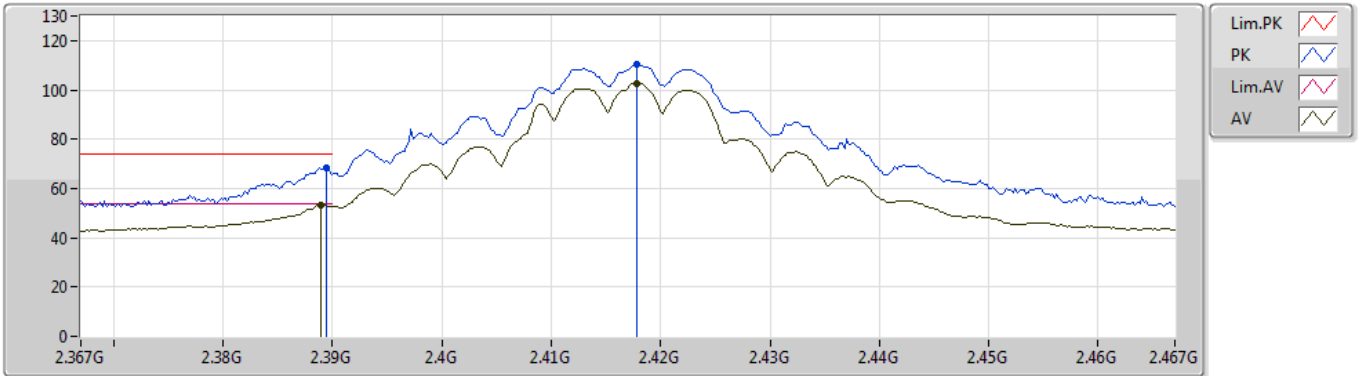


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	53.49	54.00	-0.51	1.05	3	Vertical	266	1.01	-				
AV	2.416G	106.27	Inf	-Inf	1.02	3	Vertical	266	1.01	-				
PK	2.39G	68.38	74.00	-5.62	1.05	3	Vertical	266	1.01	-				
PK	2.4162G	114.29	Inf	-Inf	1.02	3	Vertical	266	1.01	-				

802.11g_Nss1,(6Mbps)_2TX

26/04/2019

2417MHz_TX

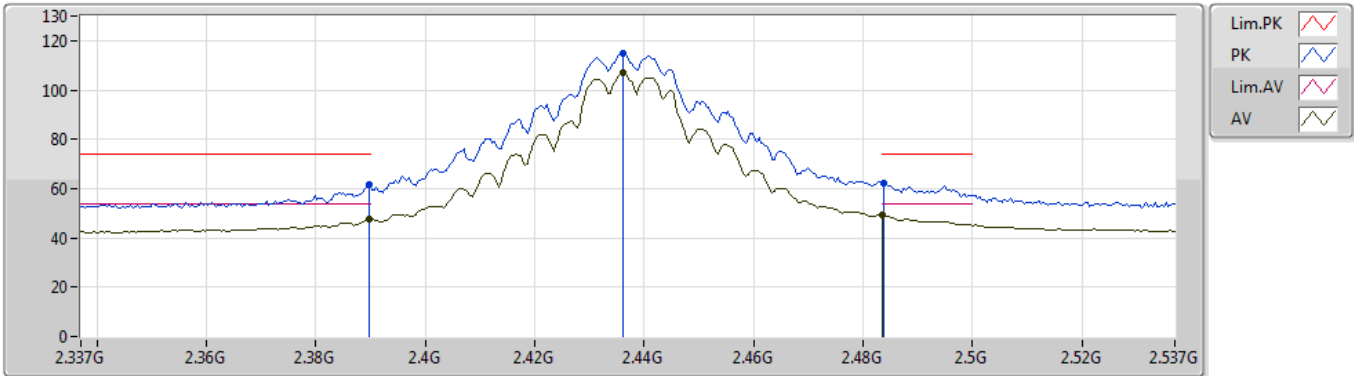


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.389G	53.19	54.00	-0.81	1.05	3	Horizontal	132	1.50	-				
AV	2.4178G	102.72	Inf	-Inf	1.01	3	Horizontal	132	1.50	-				
PK	2.3894G	68.16	74.00	-5.84	1.05	3	Horizontal	132	1.50	-				
PK	2.4178G	110.41	Inf	-Inf	1.01	3	Horizontal	132	1.50	-				

802.11g_Nss1,(6Mbps)_2TX

25/04/2019

2437MHz_TX

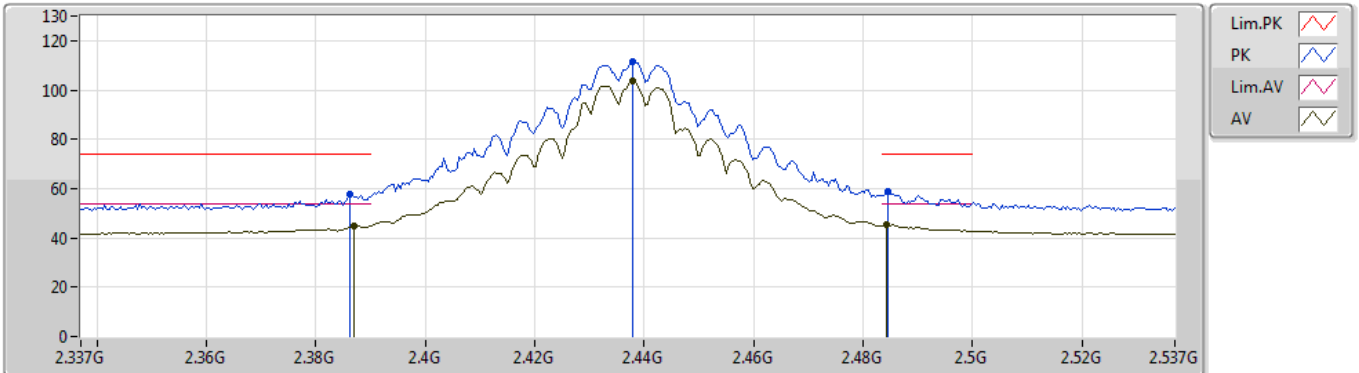


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3898G	47.82	54.00	-6.18	1.05	3	Vertical	274	1.49	-				
AV	2.4362G	106.98	Inf	-Inf	1.01	3	Vertical	274	1.49	-				
AV	2.4835G	49.05	54.00	-4.95	0.97	3	Vertical	274	1.49	-				
PK	2.3898G	61.45	74.00	-12.55	1.05	3	Vertical	274	1.49	-				
PK	2.4362G	114.85	Inf	-Inf	1.01	3	Vertical	274	1.49	-				
PK	2.4838G	62.31	74.00	-11.69	0.97	3	Vertical	274	1.49	-				

802.11g_Nss1,(6Mbps)_2TX

25/04/2019

2437MHz_TX

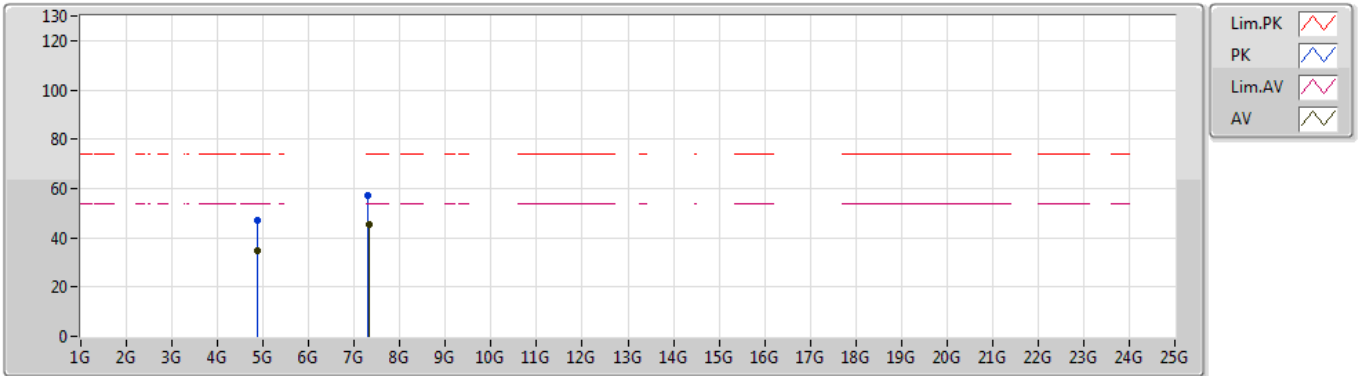


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.387G	44.84	54.00	-9.16	1.06	3	Horizontal	142	1.54	-				
AV	2.4378G	103.62	Inf	-Inf	1.00	3	Horizontal	142	1.54	-				
AV	2.4842G	45.27	54.00	-8.73	0.97	3	Horizontal	142	1.54	-				
PK	2.3862G	57.97	74.00	-16.03	1.07	3	Horizontal	142	1.54	-				
PK	2.4378G	111.76	Inf	-Inf	1.00	3	Horizontal	142	1.54	-				
PK	2.4846G	58.59	74.00	-15.41	0.97	3	Horizontal	142	1.54	-				

802.11g_Nss1,(6Mbps)_2TX

25/04/2019

2437MHz_TX

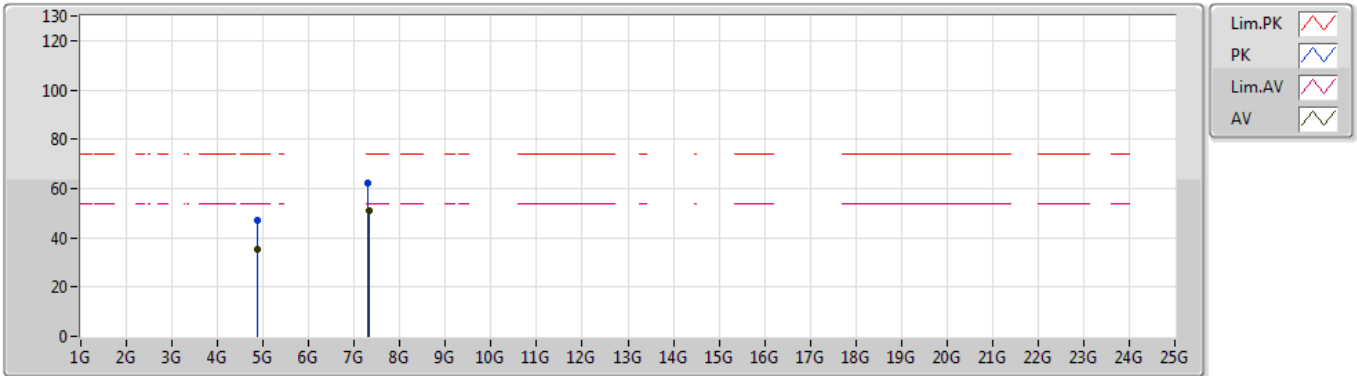


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.88792G	34.63	54.00	-19.37	7.23	3	Vertical	286	2.22	-				
AV	7.311G	45.39	54.00	-8.61	17.27	3	Vertical	216	1.51	-				
PK	4.88756G	46.98	74.00	-27.02	7.23	3	Vertical	286	2.22	-				
PK	7.29972G	56.99	74.00	-17.01	17.17	3	Vertical	216	1.51	-				

802.11g_Nss1,(6Mbps)_2TX

25/04/2019

2437MHz_TX

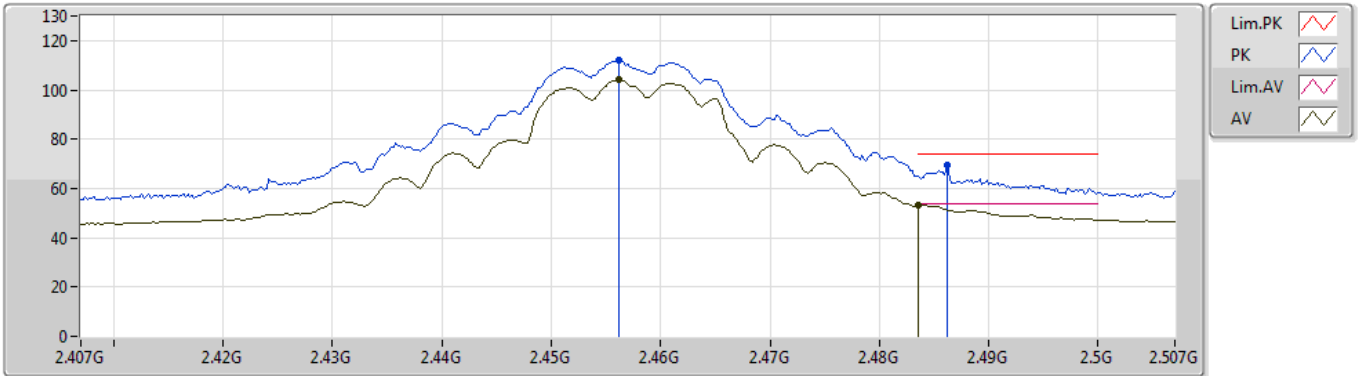


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.87544G	35.37	54.00	-18.63	7.22	3	Horizontal	263	2.92	-				
AV	7.31082G	50.84	54.00	-3.16	17.27	3	Horizontal	165	1.49	-				
PK	4.87526G	46.87	74.00	-27.13	7.22	3	Horizontal	263	2.92	-				
PK	7.3086G	62.39	74.00	-11.61	17.24	3	Horizontal	165	1.49	-				

802.11g_Nss1,(6Mbps)_2TX

26/04/2019

2457MHz_TX

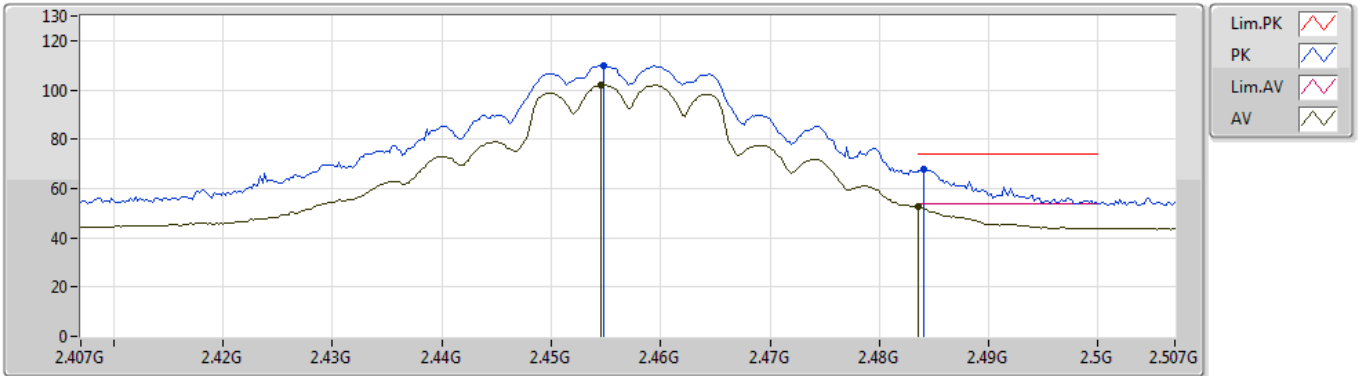


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4562G	104.25	Inf	-Inf	0.99	3	Vertical	266	1.37	-				
AV	2.4835G	53.07	54.00	-0.93	0.97	3	Vertical	266	1.37	-				
PK	2.4562G	112.23	Inf	-Inf	0.99	3	Vertical	266	1.37	-				
PK	2.4862G	69.74	74.00	-4.26	0.97	3	Vertical	266	1.37	-				

802.11g_Nss1,(6Mbps)_2TX

26/04/2019

2457MHz_TX

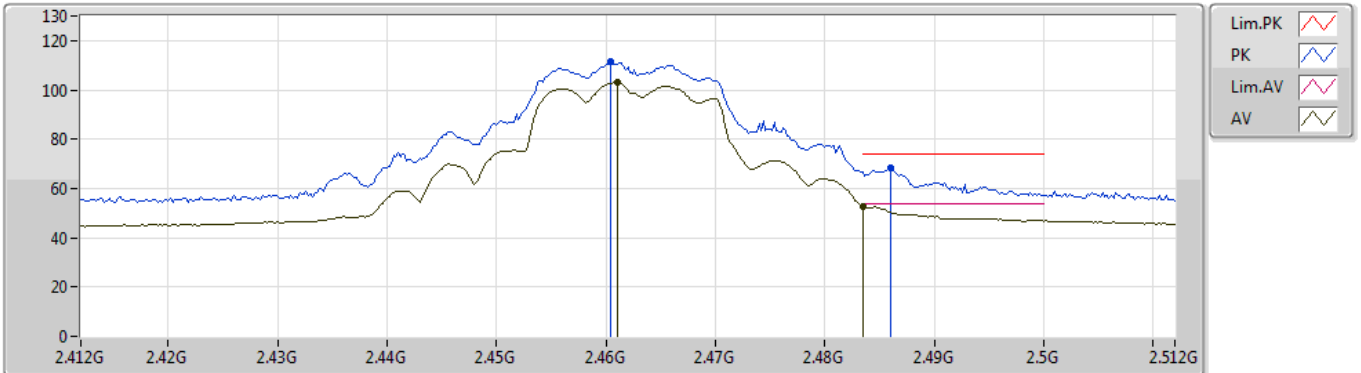


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4546G	101.93	Inf	-Inf	0.99	3	Horizontal	205	1.60	-				
AV	2.4835G	52.50	54.00	-1.50	0.97	3	Horizontal	205	1.60	-				
PK	2.4548G	109.82	Inf	-Inf	0.99	3	Horizontal	205	1.60	-				
PK	2.484G	67.74	74.00	-6.26	0.97	3	Horizontal	205	1.60	-				

802.11g_Nss1,(6Mbps)_2TX

25/04/2019

2462MHz_TX

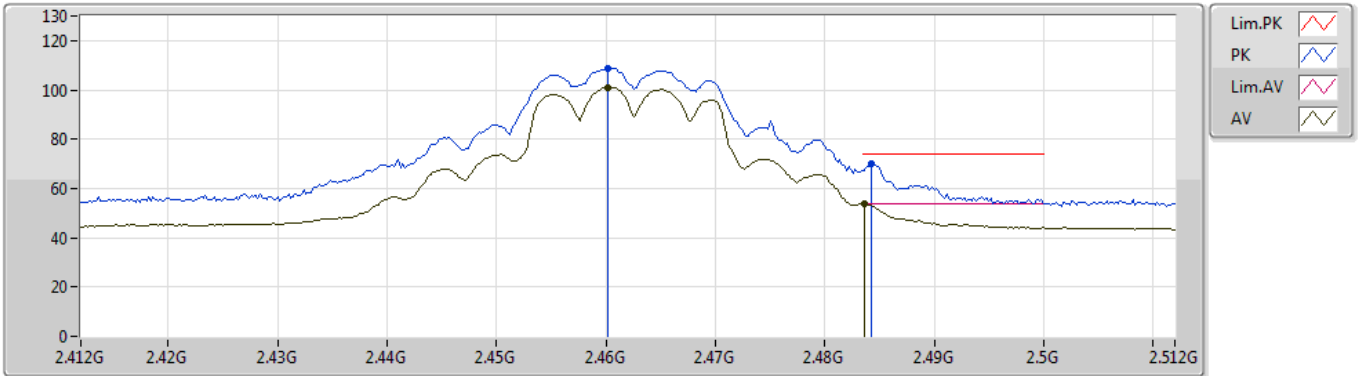


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.461G	102.88	Inf	-Inf	0.99	3	Vertical	292	1.07	-				
AV	2.4835G	52.78	54.00	-1.22	0.97	3	Vertical	292	1.07	-				
PK	2.4604G	111.54	Inf	-Inf	0.99	3	Vertical	292	1.07	-				
PK	2.486G	68.11	74.00	-5.89	0.97	3	Vertical	292	1.07	-				

802.11g_Nss1,(6Mbps)_2TX

25/04/2019

2462MHz_TX

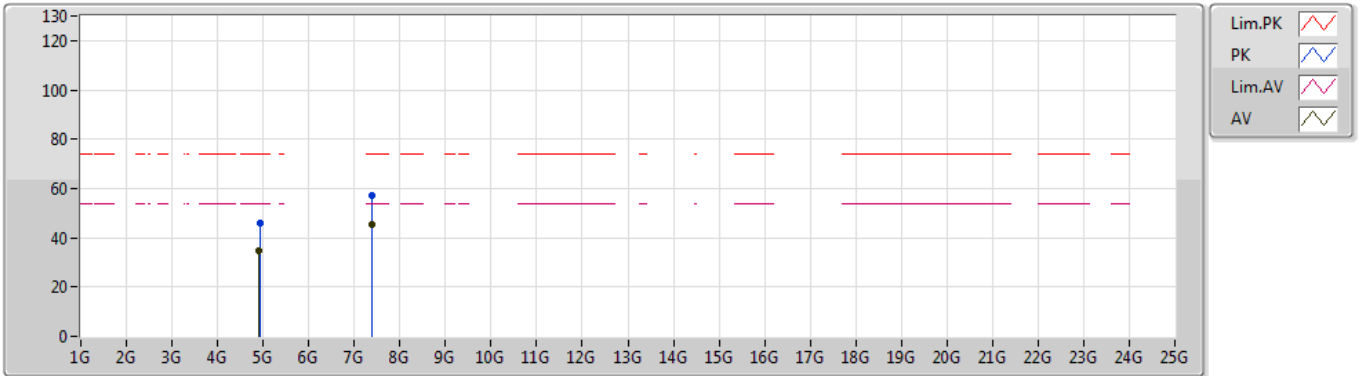


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4602G	101.00	Inf	-Inf	0.99	3	Horizontal	203	1.68	-				
AV	2.4836G	53.78	54.00	-0.22	0.97	3	Horizontal	203	1.68	-				
PK	2.4602G	108.88	Inf	-Inf	0.99	3	Horizontal	203	1.68	-				
PK	2.4842G	70.05	74.00	-3.95	0.97	3	Horizontal	203	1.68	-				

802.11g_Nss1,(6Mbps)_2TX

25/04/2019

2462MHz_TX

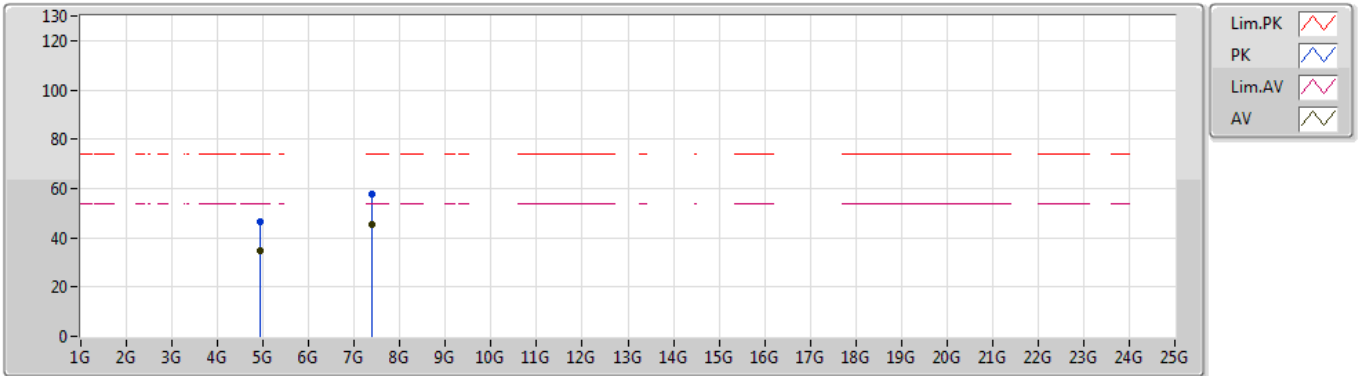


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.91926G	34.60	54.00	-19.40	7.32	3	Vertical	344	1.30	-				
AV	7.3794G	45.29	54.00	-8.71	17.87	3	Vertical	173	2.33	-				
PK	4.93846G	46.20	74.00	-27.80	7.39	3	Vertical	344	1.30	-				
PK	7.37478G	57.12	74.00	-16.88	17.83	3	Vertical	173	2.33	-				

802.11g_Nss1,(6Mbps)_2TX

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2462MHz_TX

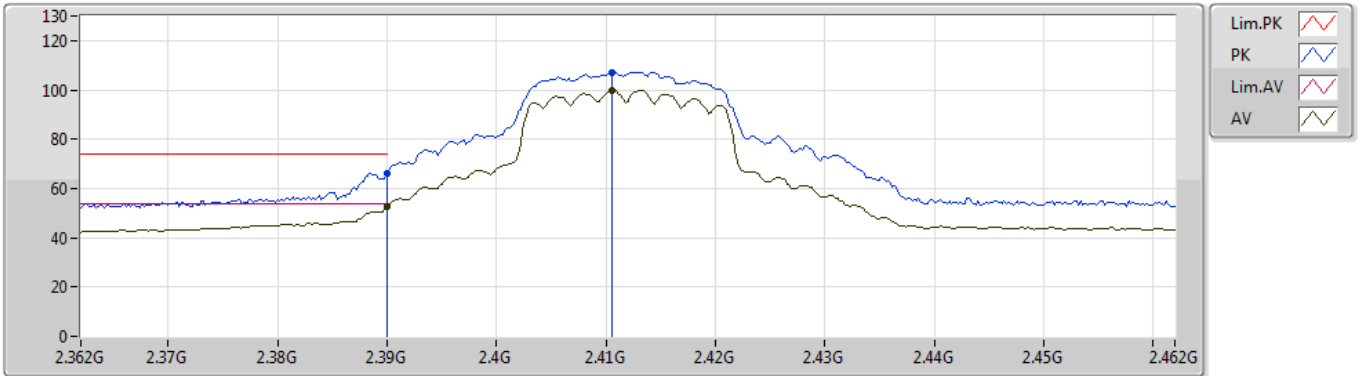


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.92142G	34.74	54.00	-19.26	7.32	3	Horizontal	61	1.11	-				
AV	7.37268G	45.22	54.00	-8.78	17.81	3	Horizontal	334	1.12	-				
PK	4.924G	46.56	74.00	-27.44	7.33	3	Horizontal	61	1.11	-				
PK	7.37154G	57.53	74.00	-16.47	17.80	3	Horizontal	334	1.12	-				

802.11n HT20_Nss1,(MCS0)_2TX

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2412MHz_TX

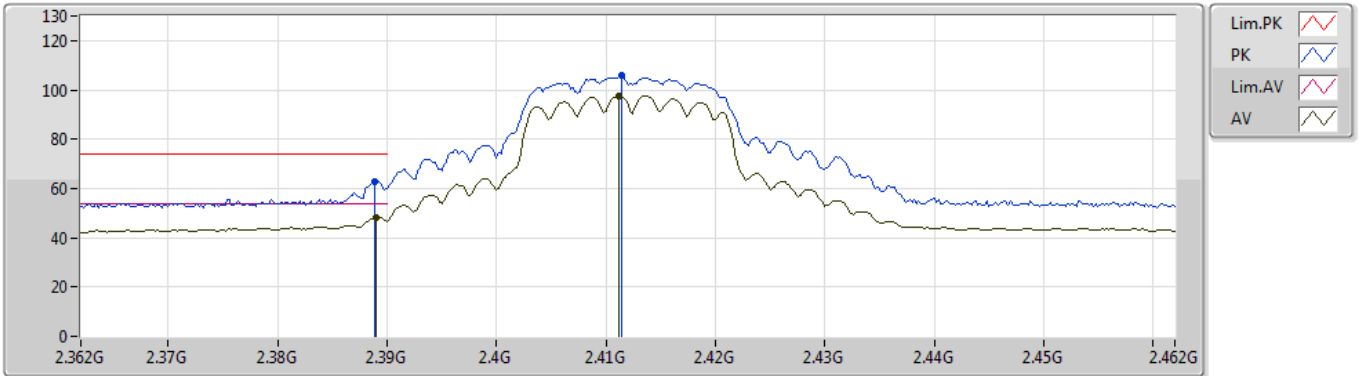


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	52.85	54.00	-1.15	1.05	3	Vertical	91	2.86	-				
AV	2.4106G	99.90	Inf	-Inf	1.03	3	Vertical	91	2.86	-				
PK	2.39G	66.08	74.00	-7.92	1.05	3	Vertical	91	2.86	-				
PK	2.4106G	107.27	Inf	-Inf	1.03	3	Vertical	91	2.86	-				

802.11n HT20_Nss1,(MCS0)_2TX

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2412MHz_TX

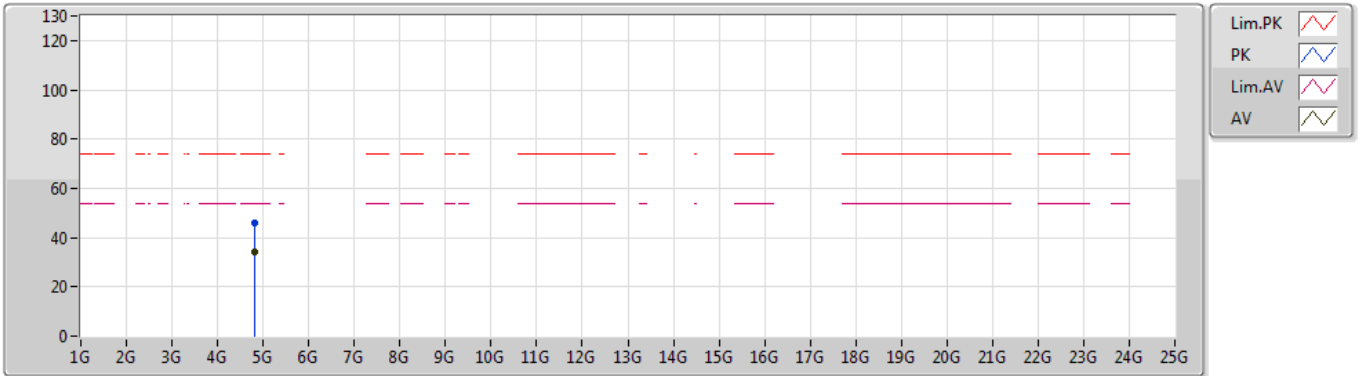


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.389G	48.19	54.00	-5.81	1.05	3	Horizontal	203	1.81	-				
AV	2.4112G	97.61	Inf	-Inf	1.03	3	Horizontal	203	1.81	-				
PK	2.3888G	62.97	74.00	-11.03	1.05	3	Horizontal	203	1.81	-				
PK	2.4114G	105.70	Inf	-Inf	1.03	3	Horizontal	203	1.81	-				

802.11n HT20_Nss1,(MCS0)_2TX

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2412MHz_TX

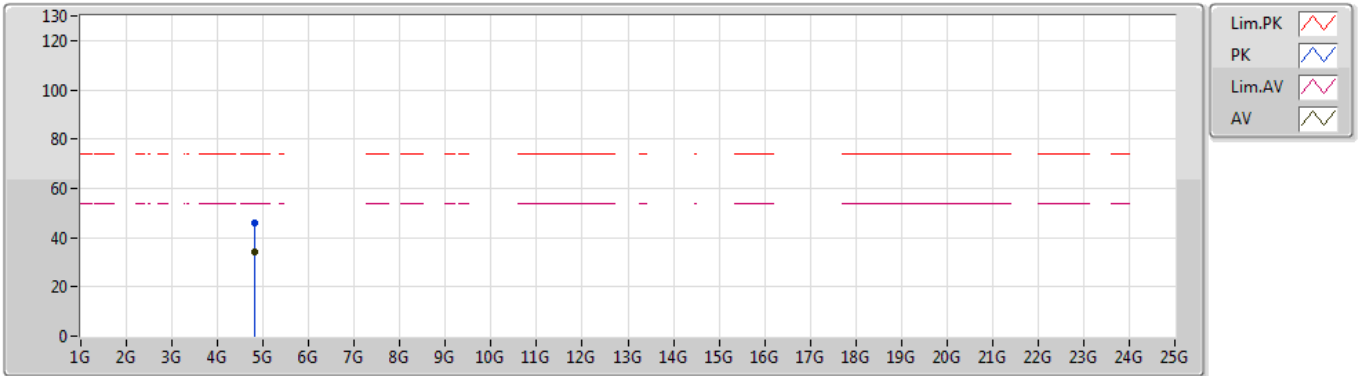


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.8096G	34.22	54.00	-19.78	7.10	3	Vertical	68	1.91	-				
PK	4.81272G	46.22	74.00	-27.78	7.11	3	Vertical	68	1.91	-				

802.11n HT20_Nss1,(MCS0)_2TX

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2412MHz_TX

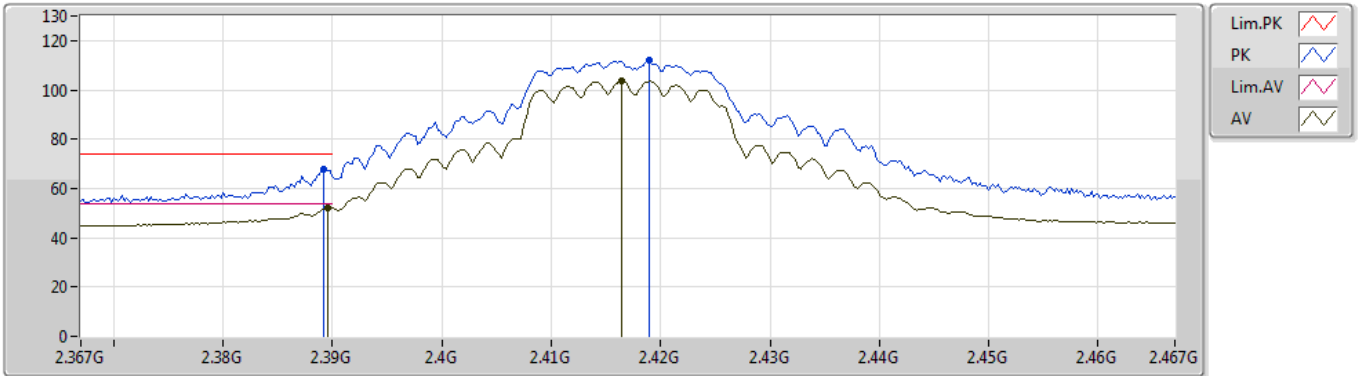


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.81074G	34.21	54.00	-19.79	7.11	3	Horizontal	286	2.25	-				
PK	4.81062G	46.06	74.00	-27.94	7.11	3	Horizontal	286	2.25	-				

802.11n HT20_Nss1,(MCS0)_2TX

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2417MHz_TX

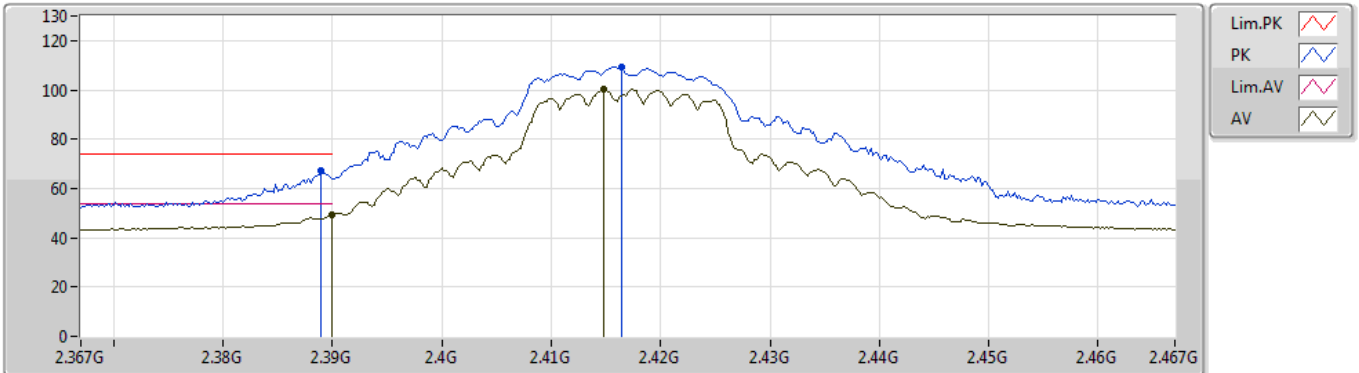


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3896G	52.26	54.00	-1.74	1.05	3	Vertical	263	1.11	-				
AV	2.4164G	103.84	Inf	-Inf	1.02	3	Vertical	263	1.11	-				
PK	2.3892G	67.85	74.00	-6.15	1.05	3	Vertical	263	1.11	-				
PK	2.419G	111.95	Inf	-Inf	1.01	3	Vertical	263	1.11	-				

802.11n HT20_Nss1,(MCS0)_2TX

26/04/2019

2417MHz_TX

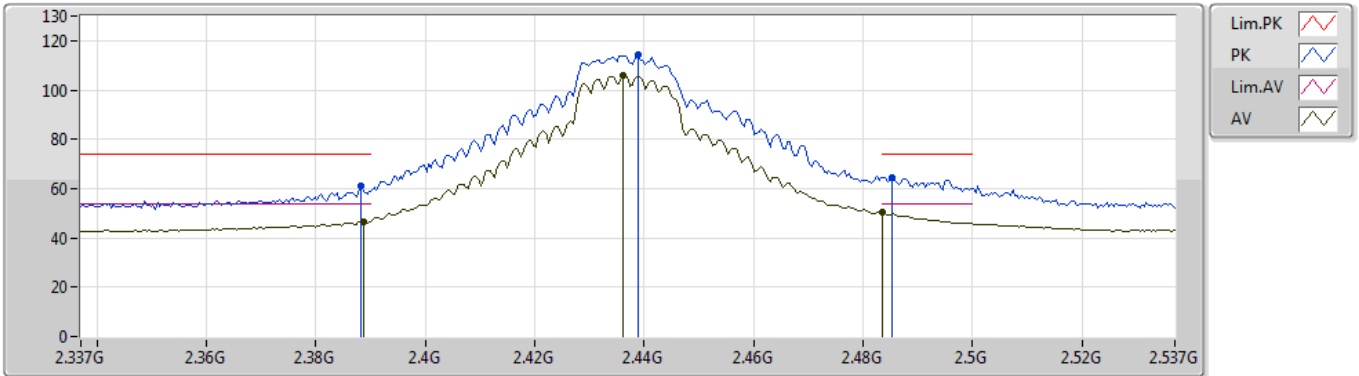


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	49.51	54.00	-4.49	1.05	3	Horizontal	138	1.50	-				
AV	2.4148G	100.11	Inf	-Inf	1.02	3	Horizontal	138	1.50	-				
PK	2.389G	67.14	74.00	-6.86	1.05	3	Horizontal	138	1.50	-				
PK	2.4164G	109.41	Inf	-Inf	1.02	3	Horizontal	138	1.50	-				

802.11n HT20_Nss1,(MCS0)_2TX

25/04/2019

2437MHz_TX

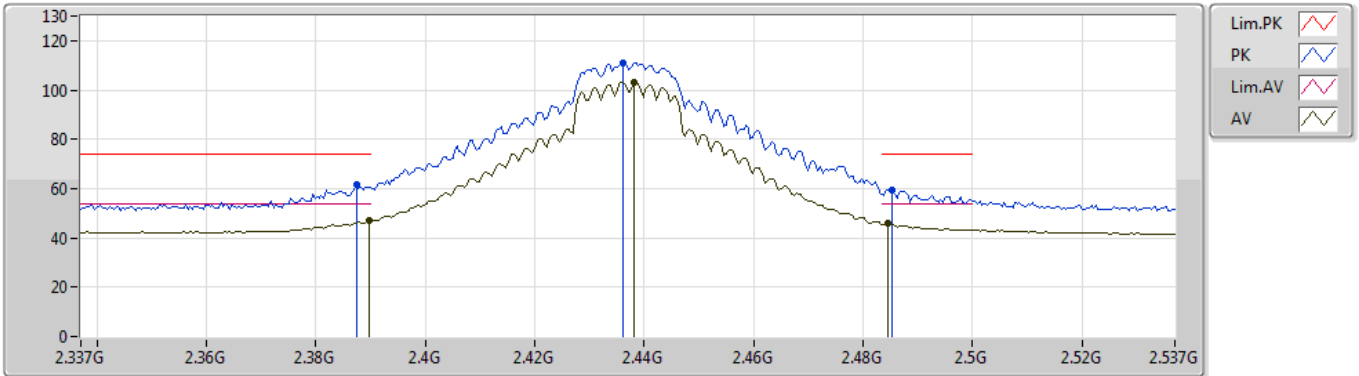


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3886G	46.64	54.00	-7.36	1.06	3	Vertical	278	1.28	-				
AV	2.4362G	106.01	Inf	-Inf	1.01	3	Vertical	278	1.28	-				
AV	2.4835G	50.52	54.00	-3.48	0.97	3	Vertical	278	1.28	-				
PK	2.3882G	60.87	74.00	-13.13	1.06	3	Vertical	278	1.28	-				
PK	2.439G	114.13	Inf	-Inf	1.00	3	Vertical	278	1.28	-				
PK	2.4854G	64.58	74.00	-9.42	0.97	3	Vertical	278	1.28	-				

802.11n HT20_Nss1,(MCS0)_2TX

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2437MHz_TX

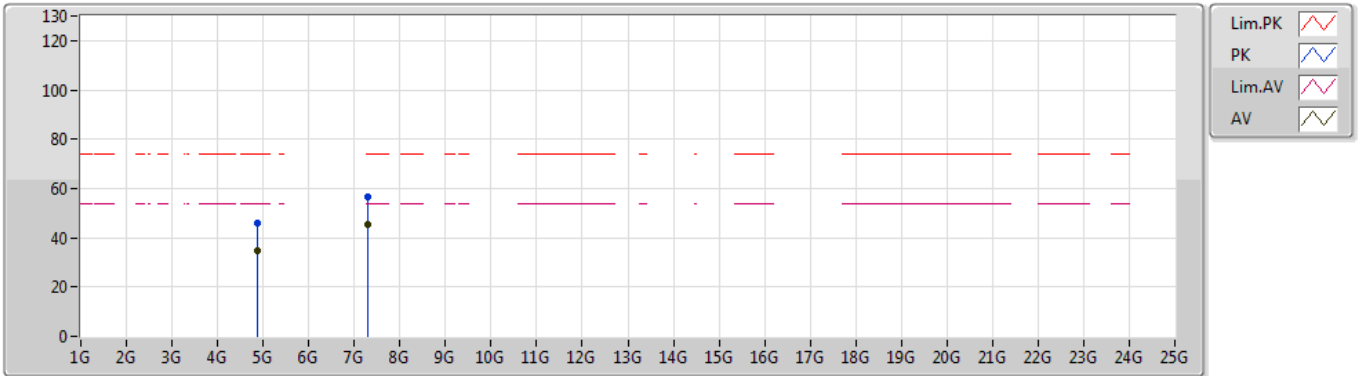


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3898G	46.91	54.00	-7.09	1.05	3	Horizontal	207	1.60	-				
AV	2.4382G	103.08	Inf	-Inf	1.00	3	Horizontal	207	1.60	-				
AV	2.4846G	45.81	54.00	-8.19	0.97	3	Horizontal	207	1.60	-				
PK	2.3874G	61.45	74.00	-12.55	1.06	3	Horizontal	207	1.60	-				
PK	2.4362G	111.19	Inf	-Inf	1.01	3	Horizontal	207	1.60	-				
PK	2.4854G	59.47	74.00	-14.53	0.97	3	Horizontal	207	1.60	-				

802.11n HT20_Nss1,(MCS0)_2TX

25/04/2019

2437MHz_TX

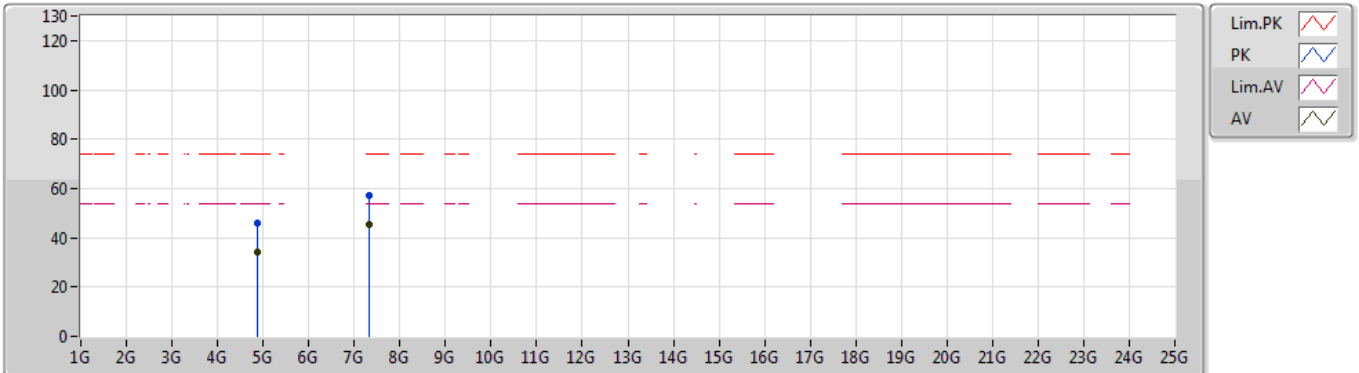


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.8716G	34.95	54.00	-19.05	7.21	3	Vertical	117	2.14	-				
AV	7.30926G	45.20	54.00	-8.80	17.25	3	Vertical	181	2.16	-				
PK	4.86398G	46.16	74.00	-27.84	7.19	3	Vertical	117	2.14	-				
PK	7.3101G	56.83	74.00	-17.17	17.26	3	Vertical	181	2.16	-				

802.11n HT20_Nss1,(MCS0)_2TX

25/04/2019

2437MHz_TX

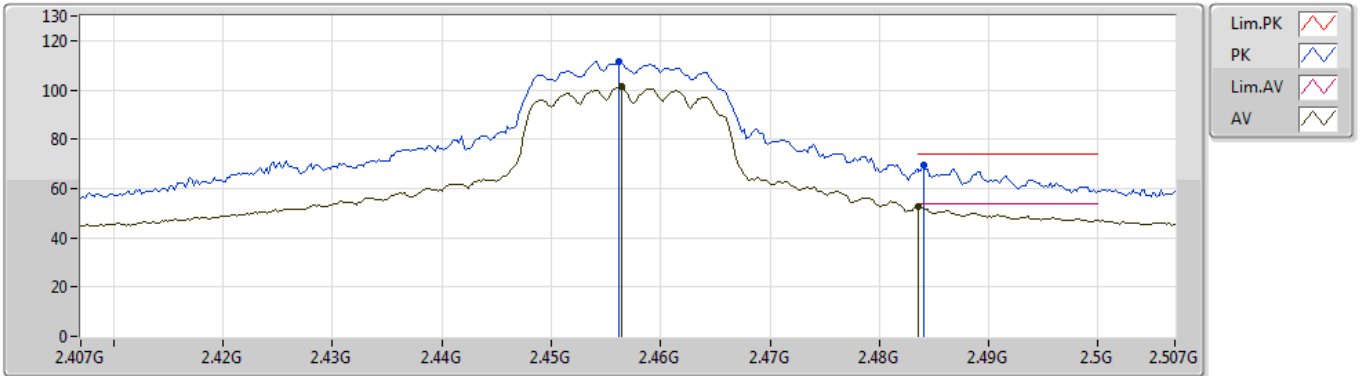


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.87058G	34.32	54.00	-19.68	7.21	3	Horizontal	9	2.23	-				
AV	7.32306G	45.25	54.00	-8.75	17.38	3	Horizontal	130	1.76	-				
PK	4.87874G	45.81	74.00	-28.19	7.22	3	Horizontal	9	2.23	-				
PK	7.32084G	57.05	74.00	-16.95	17.35	3	Horizontal	130	1.76	-				

802.11n HT20_Nss1,(MCS0)_2TX

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2457MHz_TX

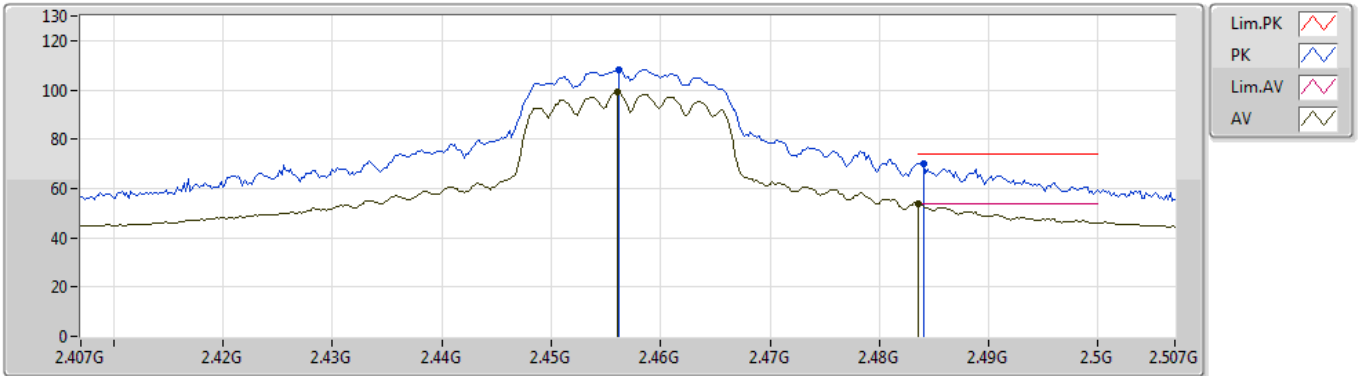


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4564G	101.58	Inf	-Inf	0.99	3	Vertical	98	1.20	-				
AV	2.4835G	52.41	54.00	-1.59	0.97	3	Vertical	98	1.20	-				
PK	2.4562G	111.56	Inf	-Inf	0.99	3	Vertical	98	1.20	-				
PK	2.484G	69.54	74.00	-4.46	0.97	3	Vertical	98	1.20	-				

802.11n HT20_Nss1,(MCS0)_2TX

30/04/2019

2457MHz_TX

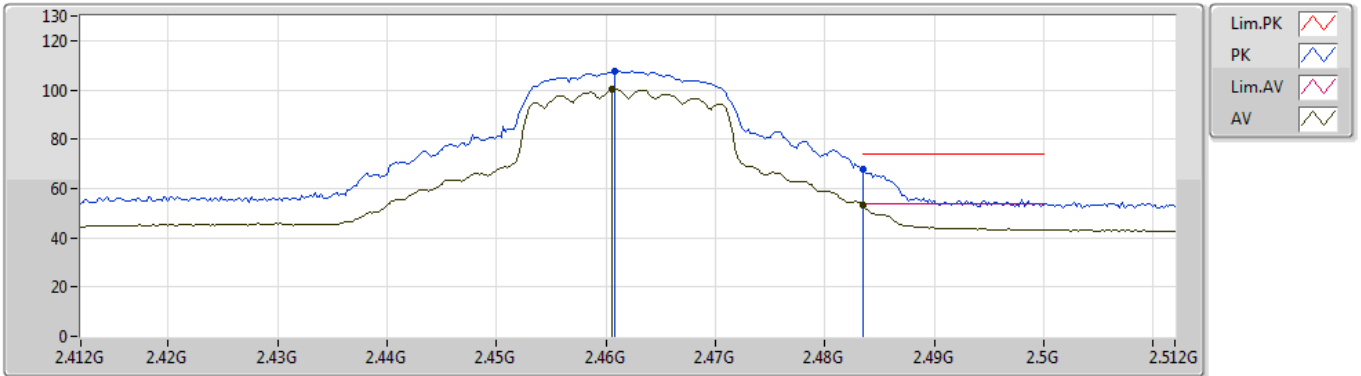


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.456G	99.21	Inf	-Inf	0.99	3	Horizontal	195	1.99	-				
AV	2.4836G	53.97	54.00	-0.03	0.97	3	Horizontal	195	1.99	-				
PK	2.4562G	108.18	Inf	-Inf	0.99	3	Horizontal	195	1.99	-				
PK	2.484G	70.09	74.00	-3.91	0.97	3	Horizontal	195	1.99	-				

802.11n HT20_Nss1,(MCS0)_2TX

25/04/2019

2462MHz_TX

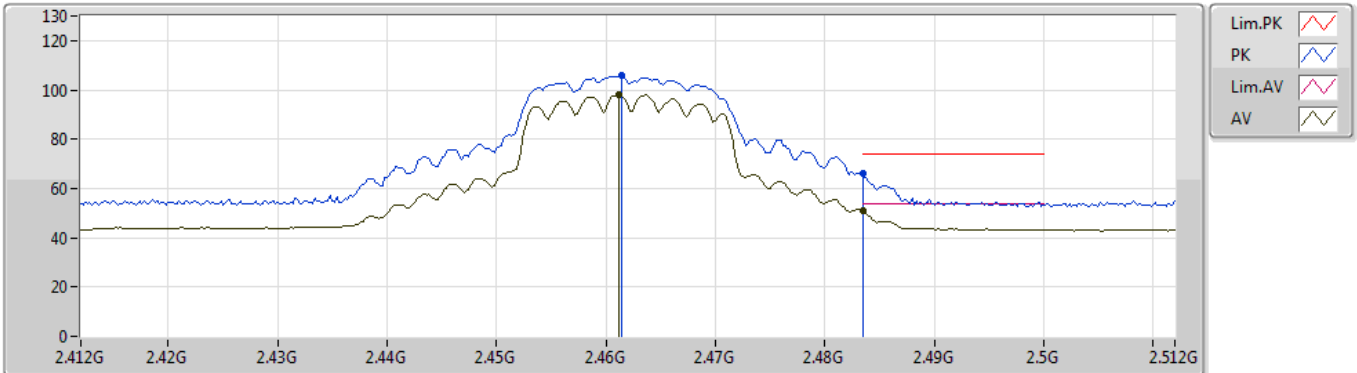


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4606G	100.30	Inf	-Inf	0.99	3	Vertical	105	2.69	-				
AV	2.4835G	53.34	54.00	-0.66	0.97	3	Vertical	105	2.69	-				
PK	2.4608G	107.71	Inf	-Inf	0.99	3	Vertical	105	2.69	-				
PK	2.4835G	67.93	74.00	-6.07	0.97	3	Vertical	105	2.69	-				

802.11n HT20_Nss1,(MCS0)_2TX

25/04/2019

2462MHz_TX

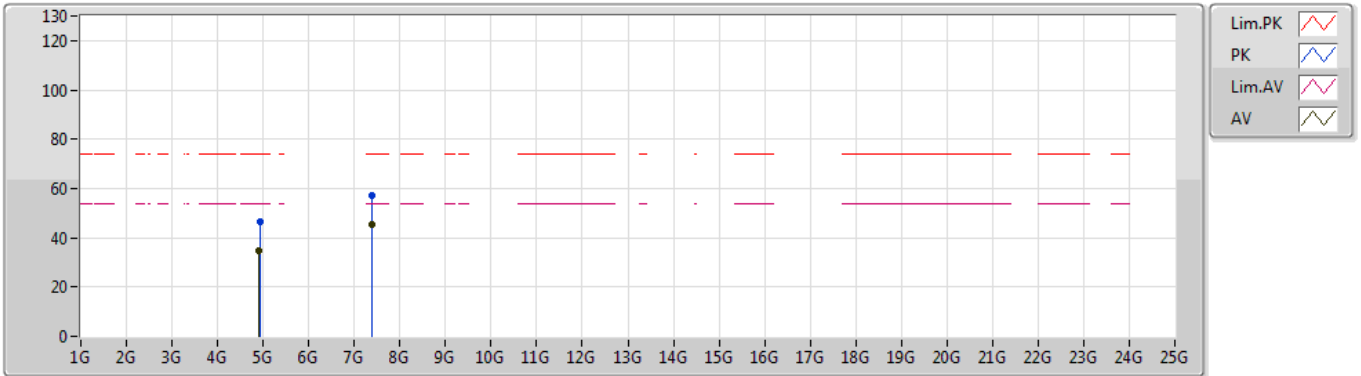


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4612G	97.86	Inf	-Inf	0.99	3	Horizontal	203	1.69	-				
AV	2.4835G	51.00	54.00	-3.00	0.97	3	Horizontal	203	1.69	-				
PK	2.4614G	106.02	Inf	-Inf	0.99	3	Horizontal	203	1.69	-				
PK	2.4835G	66.27	74.00	-7.73	0.97	3	Horizontal	203	1.69	-				

802.11n HT20_Nss1,(MCS0)_2TX

25/04/2019

2462MHz_TX

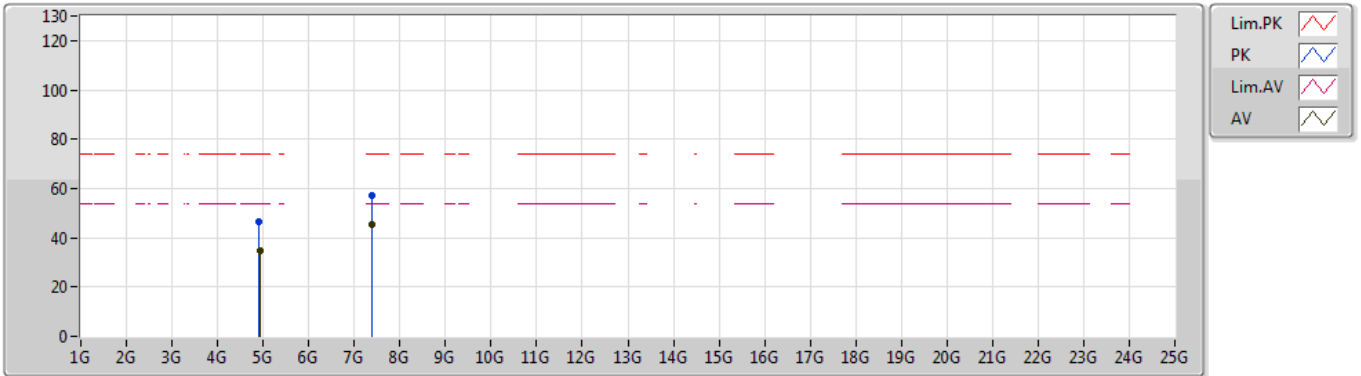


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.91632G	34.76	54.00	-19.24	7.31	3	Vertical	156	1.12	-				
AV	7.38024G	45.20	54.00	-8.80	17.88	3	Vertical	7	2.35	-				
PK	4.92952G	46.55	74.00	-27.45	7.35	3	Vertical	156	1.12	-				
PK	7.38126G	57.09	74.00	-16.91	17.88	3	Vertical	7	2.35	-				

802.11n HT20_Nss1,(MCS0)_2TX

25/04/2019

2462MHz_TX

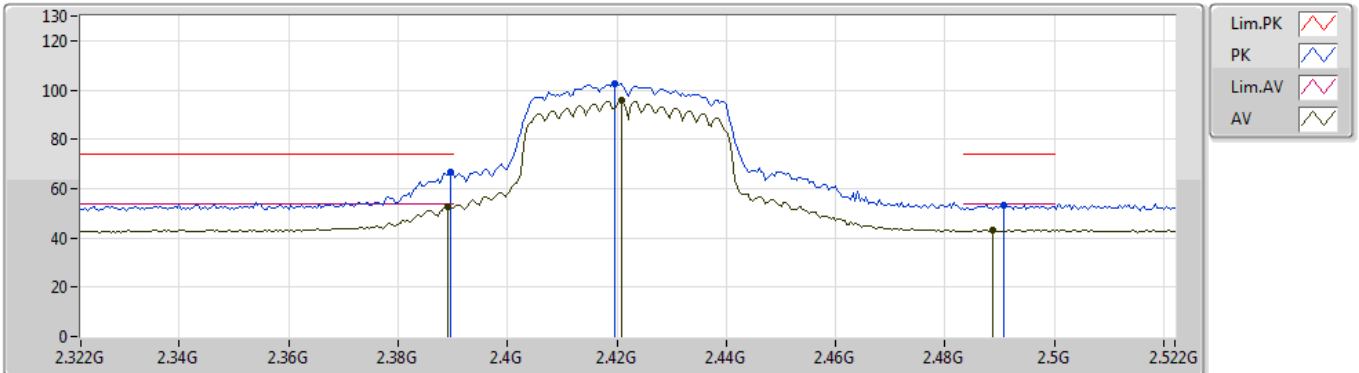


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.92424G	34.56	54.00	-19.44	7.33	3	Horizontal	140	1.03	-				
AV	7.37886G	45.19	54.00	-8.81	17.86	3	Horizontal	153	1.28	-				
PK	4.9189G	46.43	74.00	-27.57	7.32	3	Horizontal	140	1.03	-				
PK	7.38408G	57.06	74.00	-16.94	17.91	3	Horizontal	153	1.28	-				

802.11n HT40_Nss1,(MCS0)_2TX

25/04/2019

2422MHz_TX

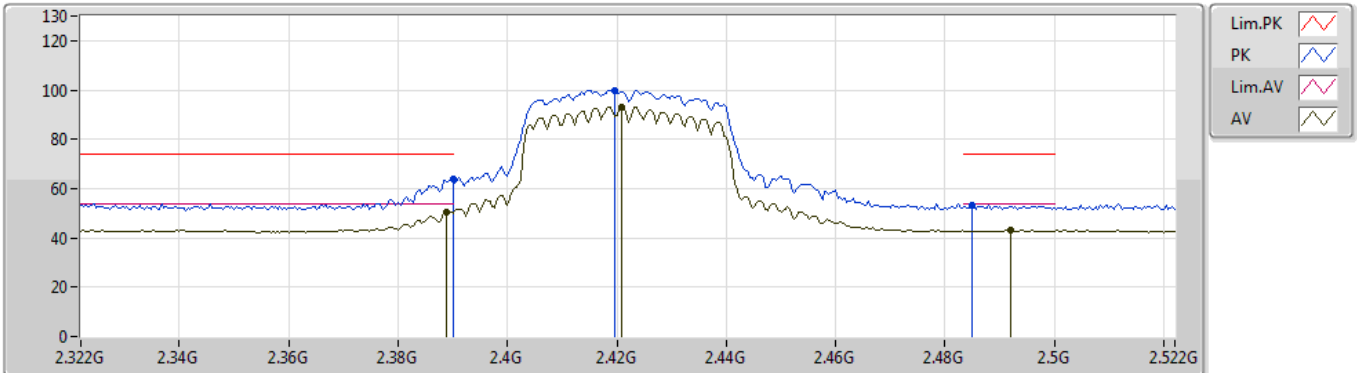


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3892G	52.43	54.00	-1.57	1.05	3	Vertical	73	2.59	-				
AV	2.4208G	95.57	Inf	-Inf	1.01	3	Vertical	73	2.59	-				
AV	2.4888G	43.37	54.00	-10.63	0.96	3	Vertical	73	2.59	-				
PK	2.3896G	66.50	74.00	-7.50	1.05	3	Vertical	73	2.59	-				
PK	2.4196G	102.78	Inf	-Inf	1.01	3	Vertical	73	2.59	-				
PK	2.4908G	53.30	74.00	-20.70	0.96	3	Vertical	73	2.59	-				

802.11n HT40_Nss1,(MCS0)_2TX

25/04/2019

2422MHz_TX

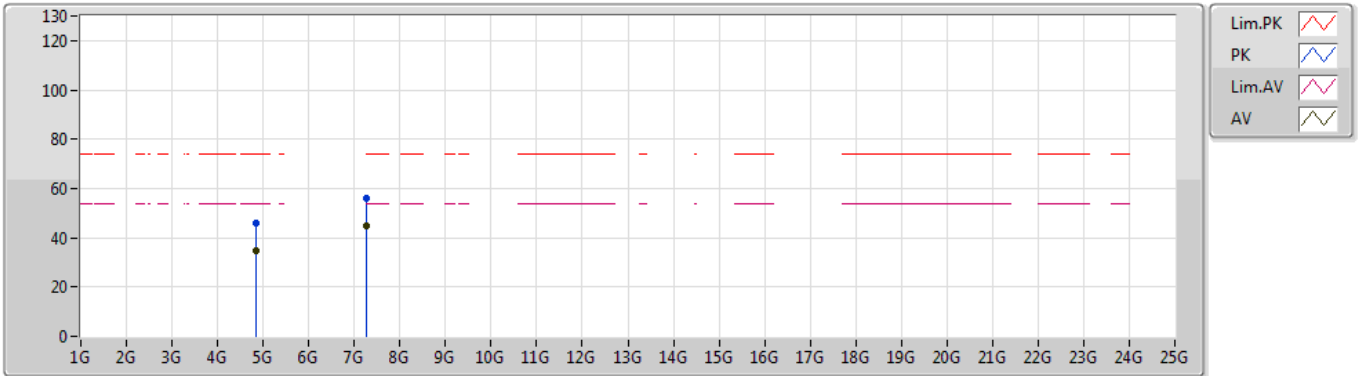


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3888G	50.59	54.00	-3.41	1.05	3	Horizontal	206	1.67	-				
AV	2.4208G	93.11	Inf	-Inf	1.01	3	Horizontal	206	1.67	-				
AV	2.492G	43.10	54.00	-10.90	0.97	3	Horizontal	206	1.67	-				
PK	2.39G	64.06	74.00	-9.94	1.05	3	Horizontal	206	1.67	-				
PK	2.4196G	99.92	Inf	-Inf	1.01	3	Horizontal	206	1.67	-				
PK	2.4848G	53.13	74.00	-20.87	0.97	3	Horizontal	206	1.67	-				

802.11n HT40_Nss1,(MCS0)_2TX

25/04/2019

2422MHz_TX

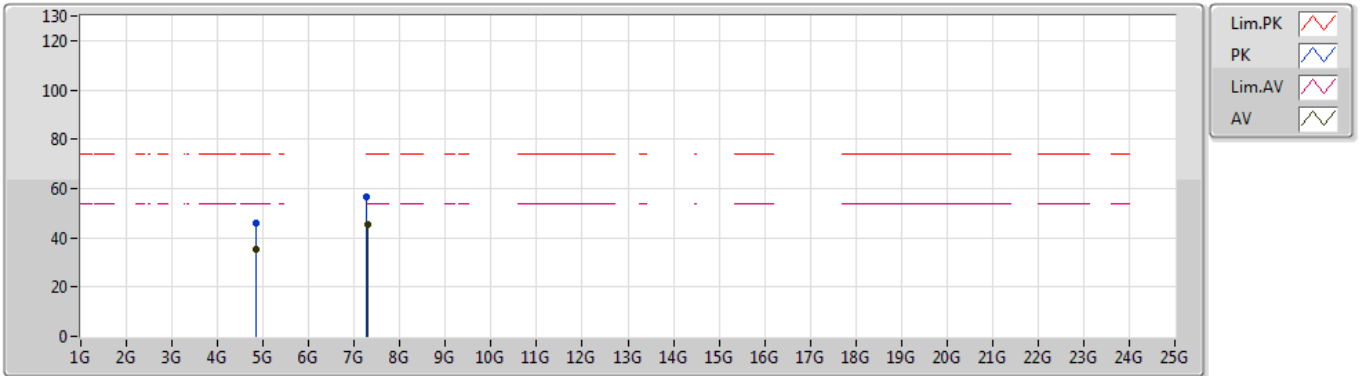


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.85852G	34.99	54.00	-19.01	7.19	3	Vertical	131	1.27	-				
AV	7.2717G	45.06	54.00	-8.94	16.83	3	Vertical	139	2.03	-				
PK	4.85348G	46.09	74.00	-27.91	7.18	3	Vertical	131	1.27	-				
PK	7.27332G	56.19	74.00	-17.81	16.86	3	Vertical	139	2.03	-				

802.11n HT40_Nss1,(MCS0)_2TX

25/04/2019

2422MHz_TX

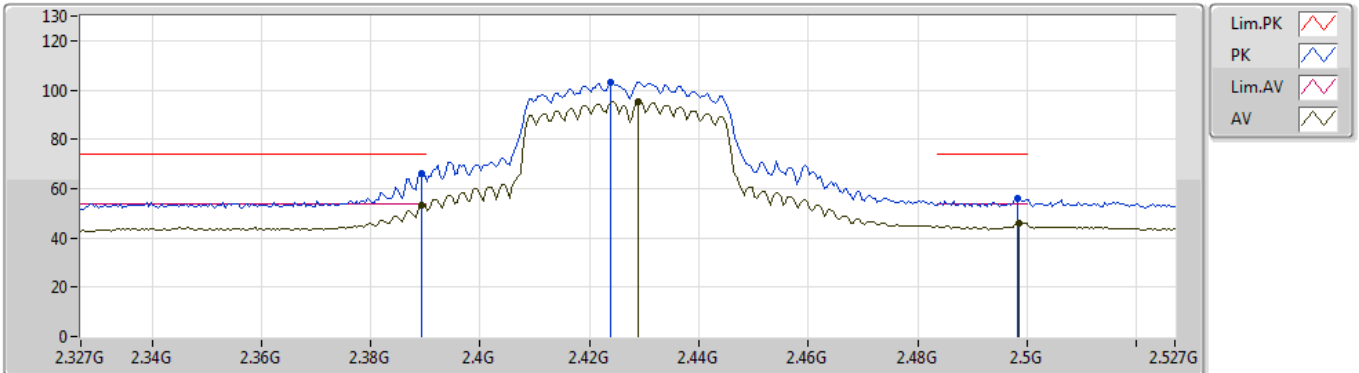


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.84994G	35.11	54.00	-18.89	7.16	3	Horizontal	286	2.08	-				
AV	7.28064G	45.11	54.00	-8.89	16.95	3	Horizontal	251	1.87	-				
PK	4.85G	45.94	74.00	-28.06	7.17	3	Horizontal	286	2.08	-				
PK	7.25736G	56.35	74.00	-17.65	16.66	3	Horizontal	251	1.87	-				

802.11n HT40_Nss1,(MCS0)_2TX

30/04/2019

2427MHz_TX

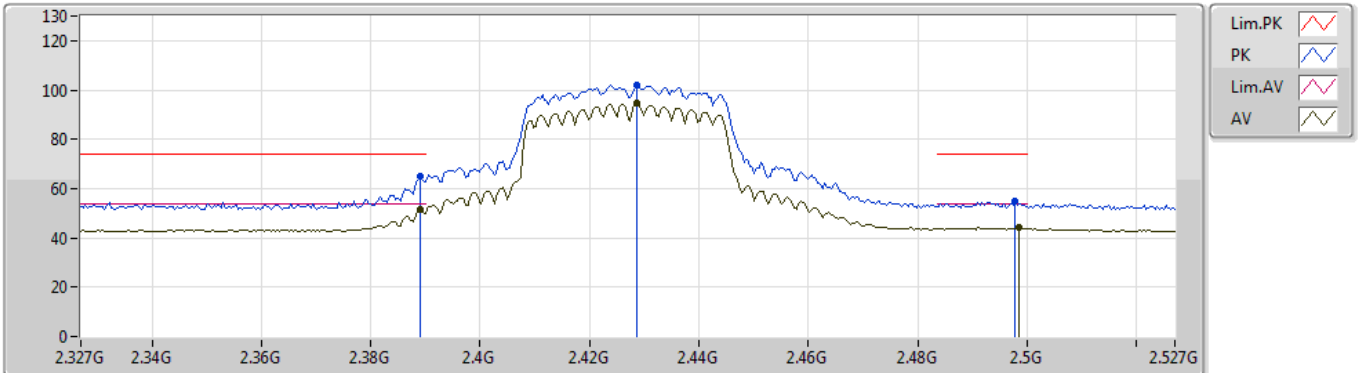


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3894G	53.16	54.00	-0.84	1.05	3	Vertical	260	1.29	-				
AV	2.429G	95.31	Inf	-Inf	1.01	3	Vertical	260	1.29	-				
AV	2.4986G	45.80	54.00	-8.20	0.96	3	Vertical	260	1.29	-				
PK	2.3894G	66.06	74.00	-7.94	1.05	3	Vertical	260	1.29	-				
PK	2.4238G	103.03	Inf	-Inf	1.01	3	Vertical	260	1.29	-				
PK	2.4982G	55.78	74.00	-18.22	0.96	3	Vertical	260	1.29	-				

802.11n HT40_Nss1,(MCS0)_2TX

30/04/2019

2427MHz_TX

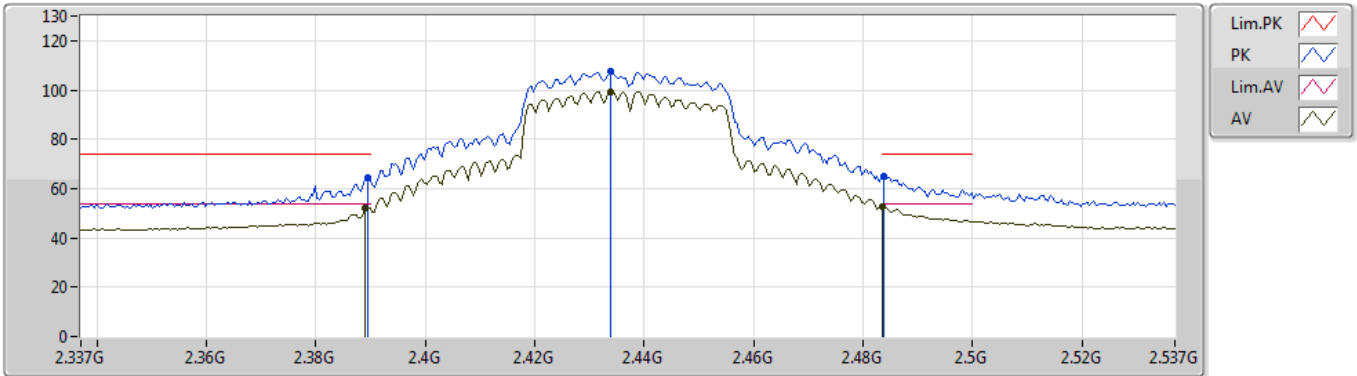


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.389G	51.31	54.00	-2.69	1.05	3	Horizontal	194	2.28	-				
AV	2.4286G	94.53	Inf	-Inf	1.01	3	Horizontal	194	2.28	-				
AV	2.4986G	44.03	54.00	-9.97	0.96	3	Horizontal	194	2.28	-				
PK	2.389G	65.16	74.00	-8.84	1.05	3	Horizontal	194	2.28	-				
PK	2.4286G	101.90	Inf	-Inf	1.01	3	Horizontal	194	2.28	-				
PK	2.4978G	54.71	74.00	-19.29	0.96	3	Horizontal	194	2.28	-				

802.11n HT40_Nss1,(MCS0)_2TX

25/04/2019

2437MHz_TX

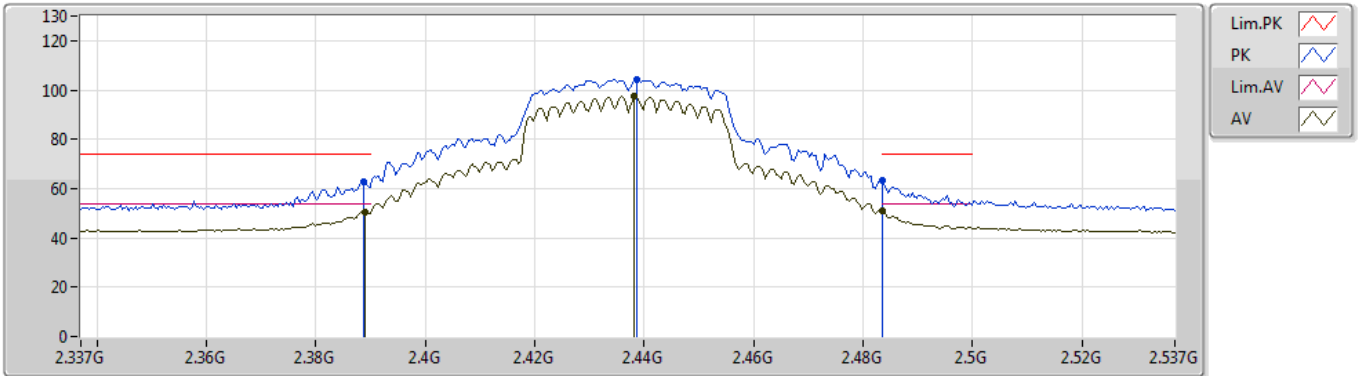


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.389G	52.24	54.00	-1.76	1.05	3	Vertical	276	1.28	-				
AV	2.4338G	99.46	Inf	-Inf	1.00	3	Vertical	276	1.28	-				
AV	2.4835G	52.78	54.00	-1.22	0.97	3	Vertical	276	1.28	-				
PK	2.3894G	64.48	74.00	-9.52	1.05	3	Vertical	276	1.28	-				
PK	2.4338G	107.33	Inf	-Inf	1.00	3	Vertical	276	1.28	-				
PK	2.4838G	65.19	74.00	-8.81	0.97	3	Vertical	276	1.28	-				

802.11n HT40_Nss1,(MCS0)_2TX

25/04/2019

2437MHz_TX

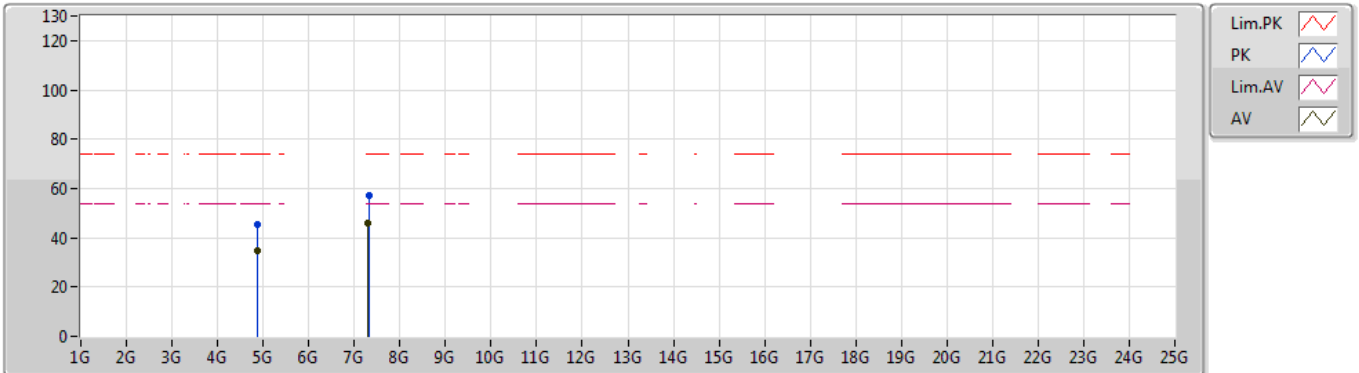


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.389G	50.59	54.00	-3.41	1.05	3	Horizontal	207	1.60	-				
AV	2.4382G	97.37	Inf	-Inf	1.00	3	Horizontal	207	1.60	-				
AV	2.4835G	50.82	54.00	-3.18	0.97	3	Horizontal	207	1.60	-				
PK	2.3886G	63.02	74.00	-10.98	1.06	3	Horizontal	207	1.60	-				
PK	2.4386G	104.17	Inf	-Inf	1.00	3	Horizontal	207	1.60	-				
PK	2.4835G	63.40	74.00	-10.60	0.97	3	Horizontal	207	1.60	-				

802.11n HT40_Nss1,(MCS0)_2TX

25/04/2019

2437MHz_TX

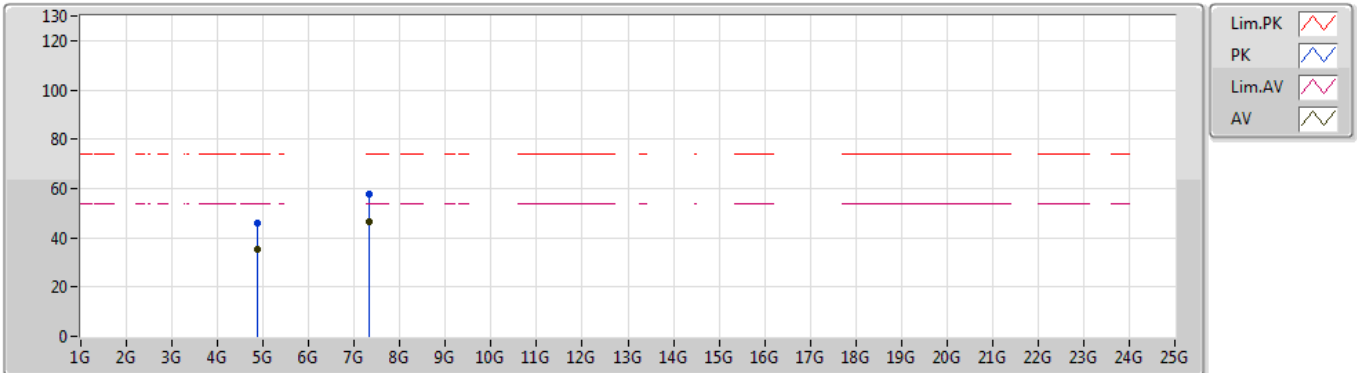


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.88324G	35.00	54.00	-19.00	7.22	3	Vertical	132	1.84	-				
AV	7.30746G	45.92	54.00	-8.08	17.23	3	Vertical	215	2.15	-				
PK	4.88402G	45.64	74.00	-28.36	7.22	3	Vertical	132	1.84	-				
PK	7.31892G	56.92	74.00	-17.08	17.33	3	Vertical	215	2.15	-				

802.11n HT40_Nss1,(MCS0)_2TX

25/04/2019

2437MHz_TX

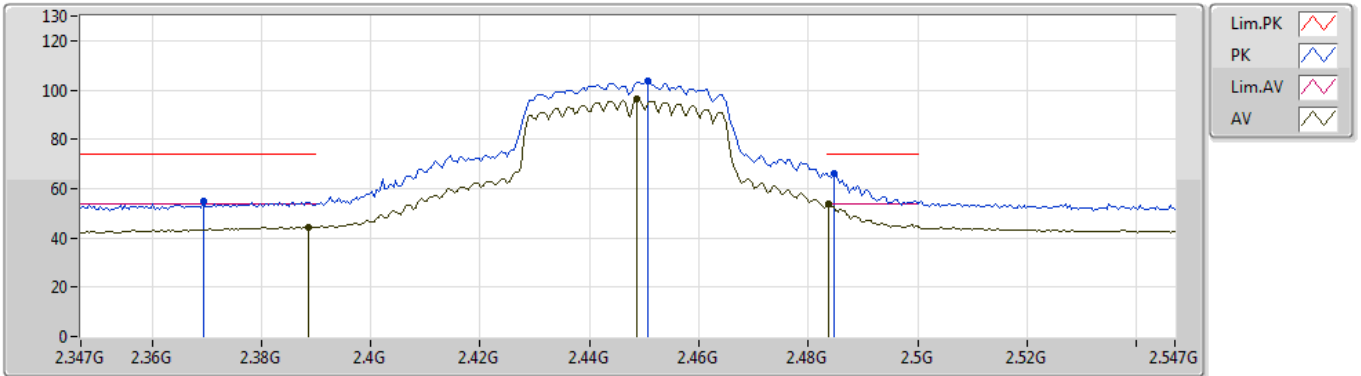


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.88012G	35.29	54.00	-18.71	7.22	3	Horizontal	192	1.34	-				
AV	7.32024G	46.51	54.00	-7.49	17.35	3	Horizontal	309	1.82	-				
PK	4.85978G	45.71	74.00	-28.29	7.19	3	Horizontal	192	1.34	-				
PK	7.31754G	57.80	74.00	-16.20	17.33	3	Horizontal	309	1.82	-				

802.11n HT40_Nss1,(MCS0)_2TX

30/04/2019

2447MHz_TX

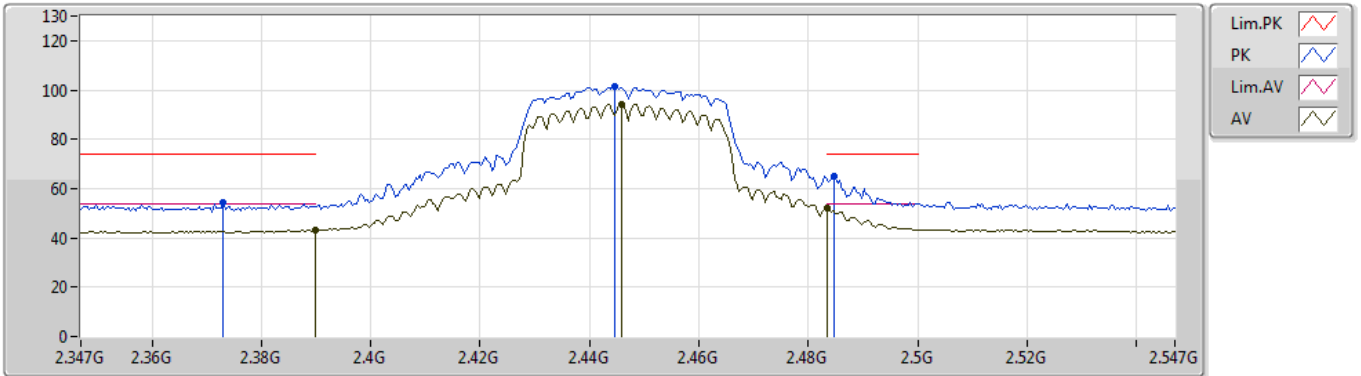


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3886G	44.52	54.00	-9.48	1.06	3	Vertical	94	1.17	-				
AV	2.4486G	96.15	Inf	-Inf	0.99	3	Vertical	94	1.17	-				
AV	2.4838G	53.62	54.00	-0.38	0.97	3	Vertical	94	1.17	-				
PK	2.3694G	54.74	74.00	-19.26	1.11	3	Vertical	94	1.17	-				
PK	2.4506G	103.39	Inf	-Inf	1.00	3	Vertical	94	1.17	-				
PK	2.4846G	66.19	74.00	-7.81	0.97	3	Vertical	94	1.17	-				

802.11n HT40_Nss1,(MCS0)_2TX

30/04/2019

2447MHz_TX

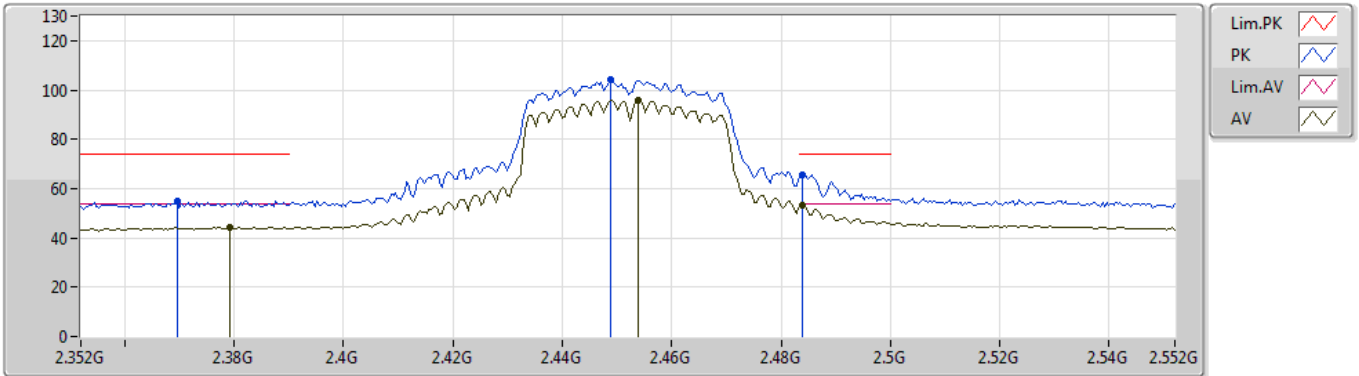


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3898G	43.14	54.00	-10.86	1.05	3	Horizontal	209	2.05	-				
AV	2.4458G	94.32	Inf	-Inf	1.00	3	Horizontal	209	2.05	-				
AV	2.4835G	51.89	54.00	-2.11	0.97	3	Horizontal	209	2.05	-				
PK	2.373G	54.36	74.00	-19.64	1.11	3	Horizontal	209	2.05	-				
PK	2.4446G	101.60	Inf	-Inf	1.00	3	Horizontal	209	2.05	-				
PK	2.4846G	65.09	74.00	-8.91	0.97	3	Horizontal	209	2.05	-				

802.11n HT40_Nss1,(MCS0)_2TX

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2452MHz_TX

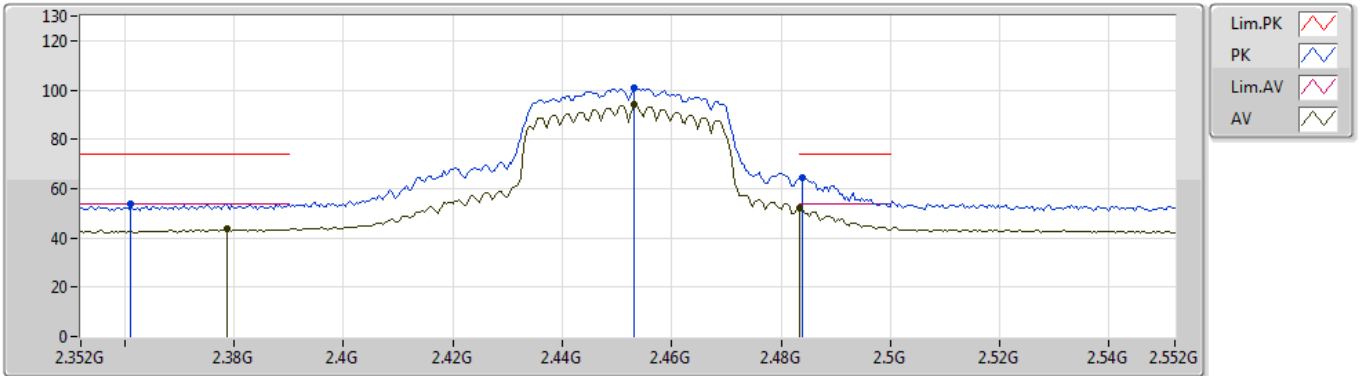


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3792G	44.28	54.00	-9.72	1.09	3	Vertical	276	1.20	-				
AV	2.454G	95.82	Inf	-Inf	0.99	3	Vertical	276	1.20	-				
AV	2.484G	53.20	54.00	-0.80	0.97	3	Vertical	276	1.20	-				
PK	2.3696G	54.90	74.00	-19.10	1.11	3	Vertical	276	1.20	-				
PK	2.4488G	104.05	Inf	-Inf	0.99	3	Vertical	276	1.20	-				
PK	2.484G	65.82	74.00	-8.18	0.97	3	Vertical	276	1.20	-				

802.11n HT40_Nss1,(MCS0)_2TX

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2452MHz_TX

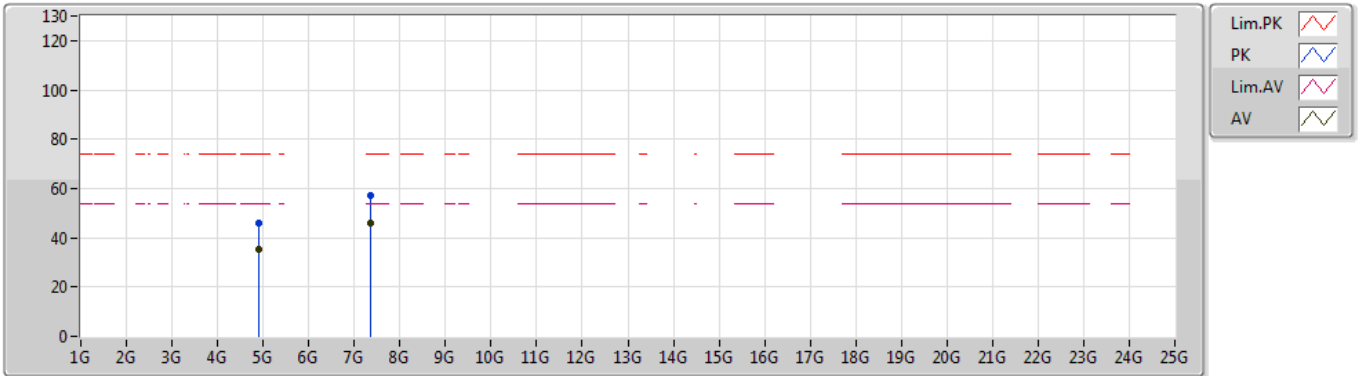


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3788G	43.54	54.00	-10.46	1.09	3	Horizontal	205	1.53	-				
AV	2.4532G	94.13	Inf	-Inf	0.99	3	Horizontal	205	1.53	-				
AV	2.4835G	52.24	54.00	-1.76	0.97	3	Horizontal	205	1.53	-				
PK	2.3612G	53.76	74.00	-20.24	1.14	3	Horizontal	205	1.53	-				
PK	2.4532G	100.61	Inf	-Inf	0.99	3	Horizontal	205	1.53	-				
PK	2.484G	64.45	74.00	-9.55	0.97	3	Horizontal	205	1.53	-				

802.11n HT40_Nss1,(MCS0)_2TX

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2452MHz_TX

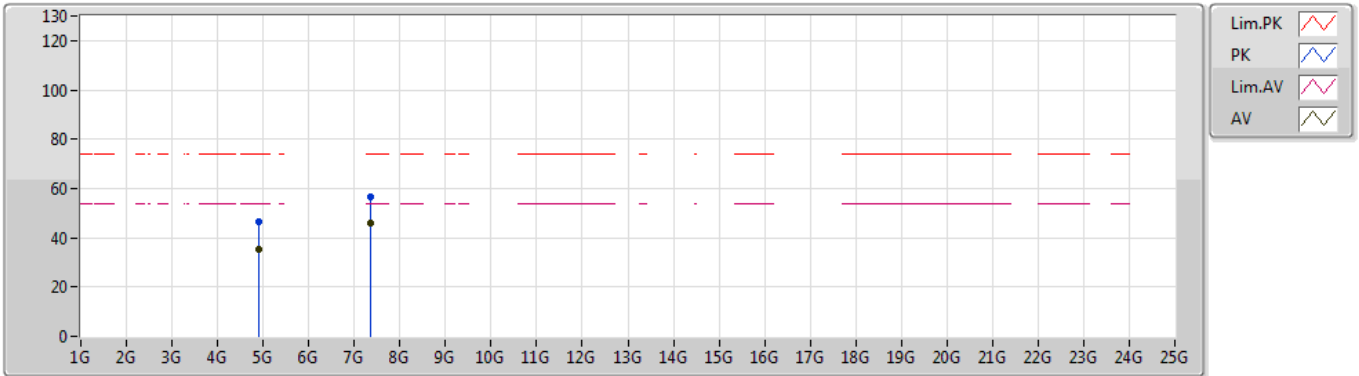


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.91702G	35.30	54.00	-18.70	7.31	3	Vertical	44	1.46	-				
AV	7.34946G	45.90	54.00	-8.10	17.60	3	Vertical	208	2.22	-				
PK	4.89242G	46.02	74.00	-27.98	7.24	3	Vertical	44	1.46	-				
PK	7.3515G	57.22	74.00	-16.78	17.62	3	Vertical	208	2.22	-				

802.11n HT40_Nss1,(MCS0)_2TX

25/04/2019

2452MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.90808G	35.34	54.00	-18.66	7.27	3	Horizontal	357	1.72	-				
AV	7.34736G	45.96	54.00	-8.04	17.58	3	Horizontal	140	1.87	-				
PK	4.90244G	46.30	74.00	-27.70	7.26	3	Horizontal	357	1.72	-				
PK	7.35666G	56.73	74.00	-17.27	17.66	3	Horizontal	140	1.87	-				

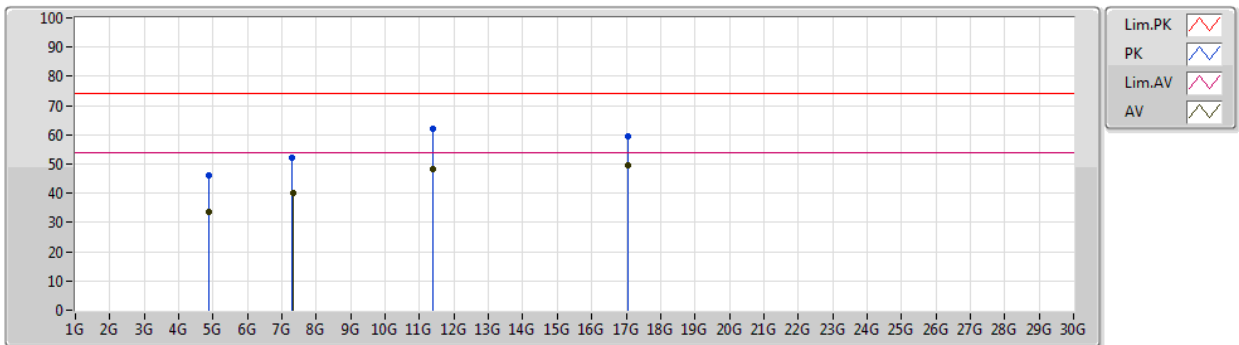


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	11.37964G	50.47	54.00	-3.53	19.90	3	Horizontal	312	1.50	-

Radiation-above 1GHz_Mode 1

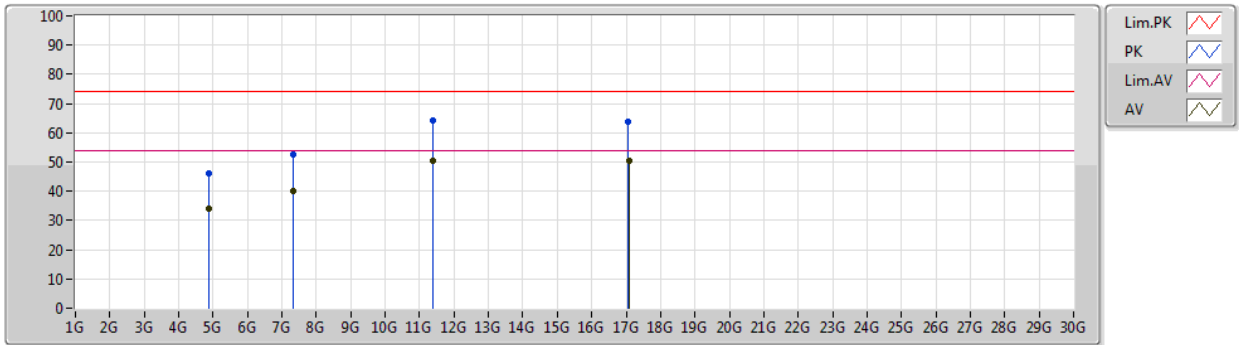
20/05/2019



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.8653G	33.79	54.00	-20.21	8.25	3	Vertical	300	1.50	-				
AV	7.32062G	39.88	54.00	-14.12	14.43	3	Vertical	322	2.33	-				
AV	11.3802G	48.45	54.00	-5.55	19.90	3	Vertical	217	1.92	-				
AV	17.07G	49.60	54.00	-4.40	23.50	3	Vertical	106	1.50	-				
PK	4.8662G	46.17	74.00	-27.83	8.25	3	Vertical	300	1.50	-				
PK	7.30425G	51.94	74.00	-22.06	14.50	3	Vertical	322	2.33	-				
PK	11.38068G	61.93	74.00	-12.07	19.90	3	Vertical	217	1.92	-				
PK	17.07G	59.36	74.00	-14.64	23.50	3	Vertical	106	1.50	-				

Radiation-above 1GHz_Mode 1

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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.8662G	34.05	54.00	-19.95	8.25	3	Horizontal	288	2.68	-				
AV	7.3182G	40.02	54.00	-13.98	14.45	3	Horizontal	277	2.47	-				
AV	11.37964G	50.47	54.00	-3.53	19.90	3	Horizontal	312	1.50	-				
AV	17.07355G	50.35	54.00	-3.65	23.54	3	Horizontal	73	1.50	-				
PK	4.8702G	45.96	74.00	-28.04	8.25	3	Horizontal	288	2.68	-				
PK	7.3167G	52.39	74.00	-21.61	14.45	3	Horizontal	277	2.47	-				
PK	11.37952G	64.09	74.00	-9.91	19.90	3	Horizontal	312	1.50	-				
PK	17.06349G	63.68	74.00	-10.32	23.45	3	Horizontal	73	1.50	-				