FCC Test Report

FCC ID	:	**2AAAS-CM04**
Equipment	:	**Vivint Doorbell Camera Pro**
Brand Name	:	**vivint.**
Model Name	:	**CM04**
Applicant	:	**Vivint, Inc. 4931 N. 300 W., Provo, UT 84604 USA**
Manufacturer	:	**Chicony Electronics Co.,Ltd. No.69, Sec. 2, Guangfu Rd., Sanchong Dist. New Taipei City 241 Taiwan**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Aug. 13, 2019, and testing was started from Aug. 16, 2019 and completed on Sep. 26, 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.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR981313AC	01	Initial issue of report	Nov. 04, 2019

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: Ben Tseng

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]

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

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	AMPHENOL	CY5765-15-001-C-FF00	PIFA	I-PEX
2	AMPHENOL	CY5765-15-002-C-FF00	PIFA	I-PEX

Ant.	Port	Gain (dBi)		
		2.4G	BT	5G
1	1	2.66	2.66	4.12
2	2	0.05	-	4.41

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Support diversity function, the Ant. 1 (port 1) was declared to be tested only by customer.

For 5GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter			
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) ≥ 1/T
802.11b	0.99	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.938	0.28	2.053m	1k
802.11n HT20	0.938	0.28	1.913m	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
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward	22.4~24.5°C / 64.2~66.7%	10/Sep/2019
RF Conducted	TH06-HY	Jerry	23.5~25.6°C / 65~68%	26/Aug/2019~27/Aug/2019
Radiated	03CH09-HY	Ryan	22.5~24.3°C / 50.3~52.2%	16/Aug/2019~26/Sep/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 ℃	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	DoS

Mode	PowerSetting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	17
2417MHz	18
2437MHz	18
2462MHz	20
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	15
2417MHz	19
2437MHz	20
2457MHz	17
2462MHz	15
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	14
2417MHz	18
2437MHz	20
2457MHz	17
2462MHz	15

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	Adapter 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	Adapter Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
			
Worst Planes of EUT	V		

2.4 Support Equipment

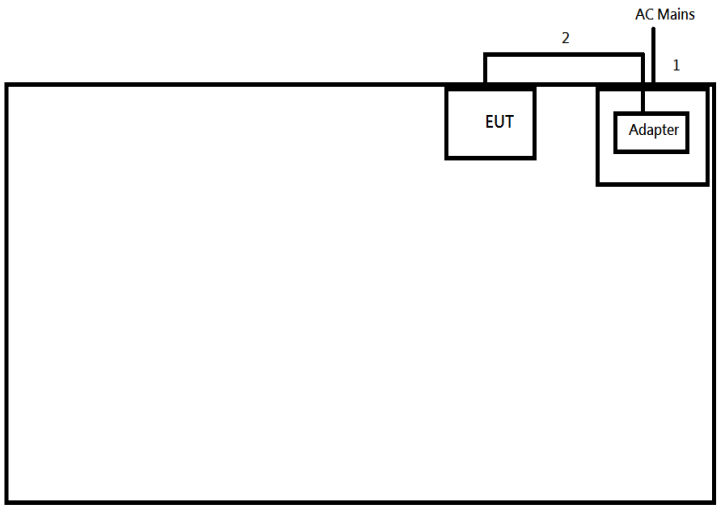
Support Equipment – RF Conducted				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	DC Power Supply	GW	GPS-3030DD	-

Support Equipment –AC Conduction and Radiated Emission				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	AC Power Cable	Power sync	PW-GPC180-3	-
2	DC Power Cable	-	-	-
3	AC adapter	HOIOTO	ADS-40ST-12	-

Note: Support equipment No.2&3 was provided by customer.

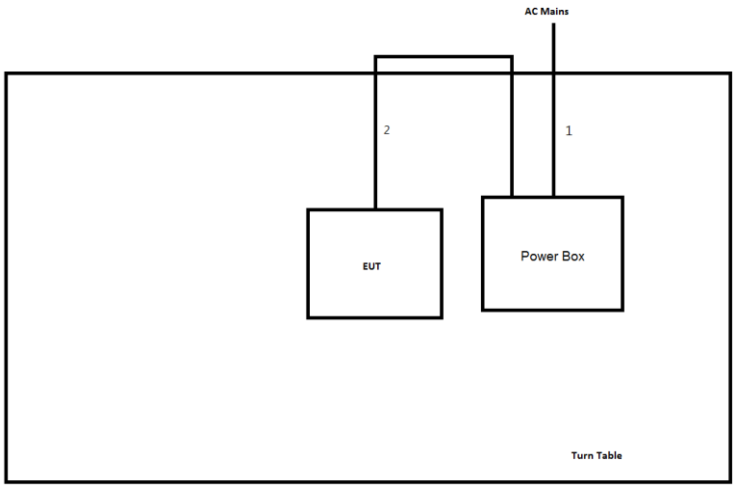
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.76	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.5m	-
2	DC Power Cable	No	1.76m	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

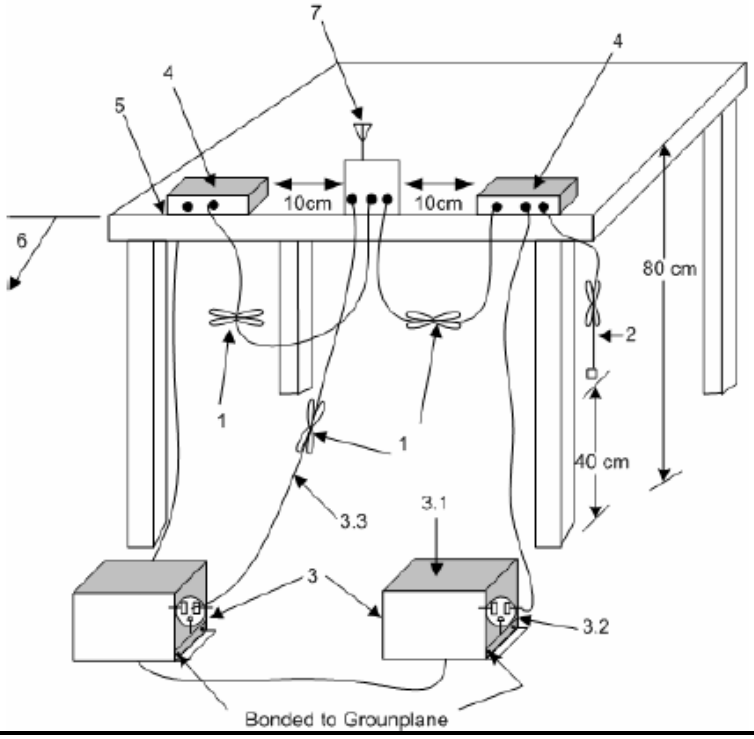
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

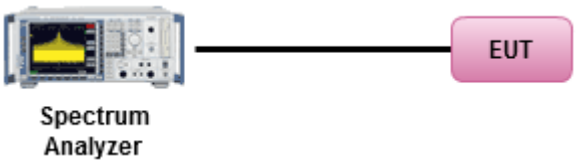
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as 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

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit			
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)		
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)$ dBm		
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm		
	▪ Smart antenna system (SAS):		
		- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm	
		- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm	
		- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3 + 8$dB dBm	
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): $P_{eirp} \leq MAX(36, [P_{Out} + G_{TX}])$ dBm		
	▪ Smart antenna system (SAS)		
		- Single beam: $P_{eirp} \leq MAX(36, P_{Out} + G_{TX})$ dBm	
		- Overlap beam: $P_{eirp} \leq MAX(36, P_{Out} + G_{TX})$ dBm	
		- Aggregate power on all beams: $P_{eirp} \leq MAX(36, [P_{Out} + G_{TX} + 8])$ 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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

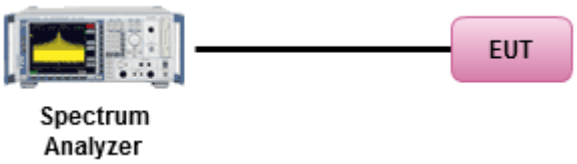
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).		
	☒ Refer as 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

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	**Limit (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.	

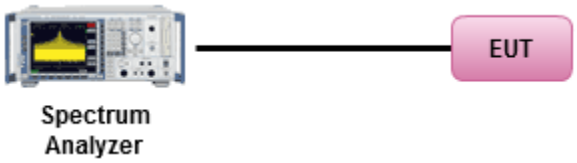
3.5.2 Measuring Instruments

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

Emissions in Non-restricted Frequency Bands


3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

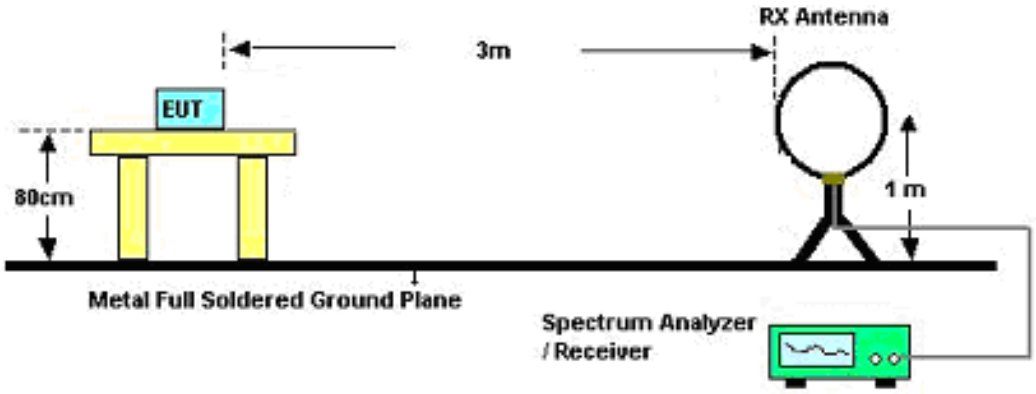
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

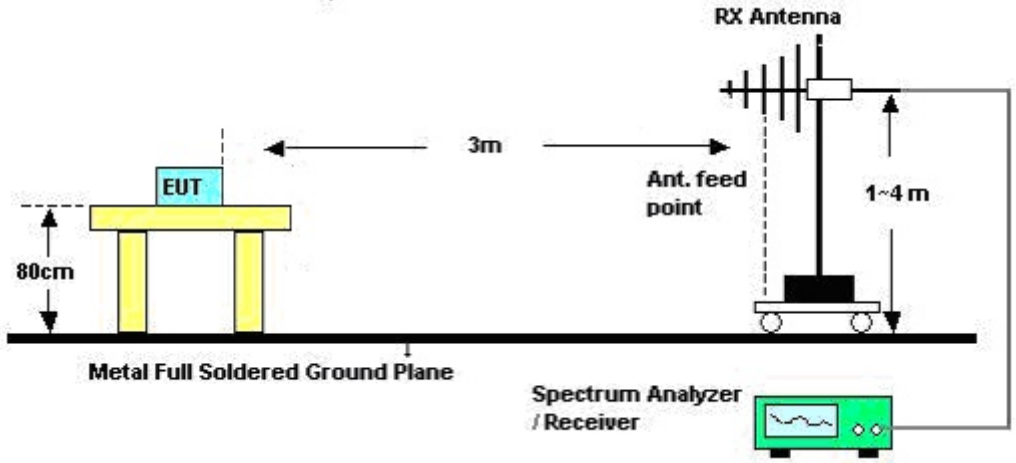
Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted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

3.6.4 Test Setup

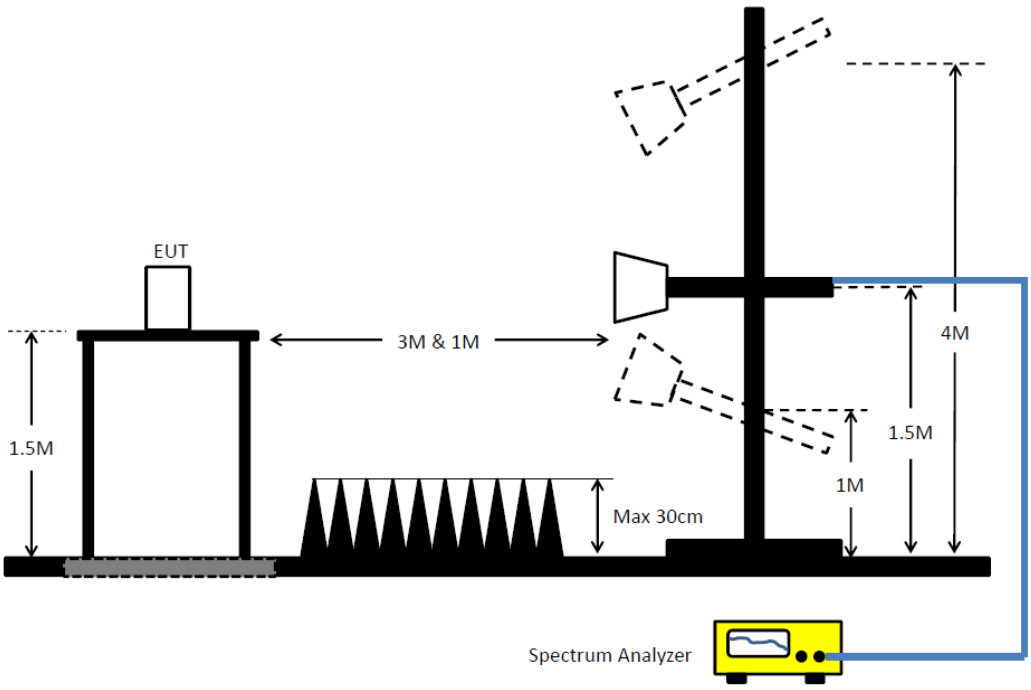
Emissions in Restricted Frequency Bands
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



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	ENV216	101295	9kHz ~ 30MHz	08/Nov/2018	07/Nov/2019
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2018	11/Oct/2019

NCR : Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	13/Mar/2019	12/Mar/2020
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.5m	HUBER	MY39470/4	RF Cable - 29	30MHz ~18G	10/Jan/2019	09/Jan/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

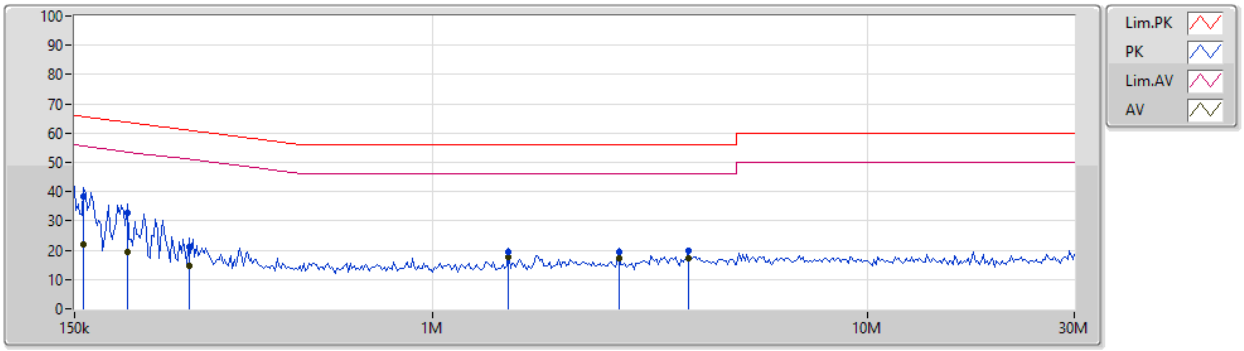
Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	22/Apr/2019	21/Apr/2020
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	13/Jun/2019	12/Jun/2020
Microwave Preamplifier	Agilent	8449B	3008A02326	1GHz ~ 26.5GHz	15/Jul/2019	14/Jul/2020
Amplifier	EMC	EMC9135	980232	9KHz~1GHz	22/Apr/2019	21/Apr/2020
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	07/Aug/2019	06/Aug/2020
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	02/Oct/2018	03/Oct/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	22/May/2019	21/May/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	18GHz~40GHz	22/May/2019	21/May/2020
Preamplifier	MITEQ	TTA1840-35-H G	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
Preamplifier	MITEQ	TTA1840-35-H G	1864481	18GHz ~ 40GHz	23/Aug/2019	22/Aug/2020
LF-CABLE-20190218	Jye Bao	RG142	CB028	9kHz ~ 1GHz	18/Feb/2019	17/Feb/2020
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz ~ 40GHz	13/Mar/2019	12/Mar/2020
Turn Table	ChainTek	T-200S	1308028	-	NCR	NCR
Antenna Mast	ChainTek	MBS-400	1308049	-	NCR	NCR
Controller	ChainTek	3000	MF780208325	-	NCR	NCR
AC Power Source	G.W	AFC-1KW	F104070001	-	NCR	NCR
Soldering iron	XRTRONIC	1f15	-	-	NCR	NCR
Site V.S.W.R	Riken	3m SAC	03CH09-HY	-	13/Jun/2019	12/Jun/2020

NCR : Non-Calibration Require

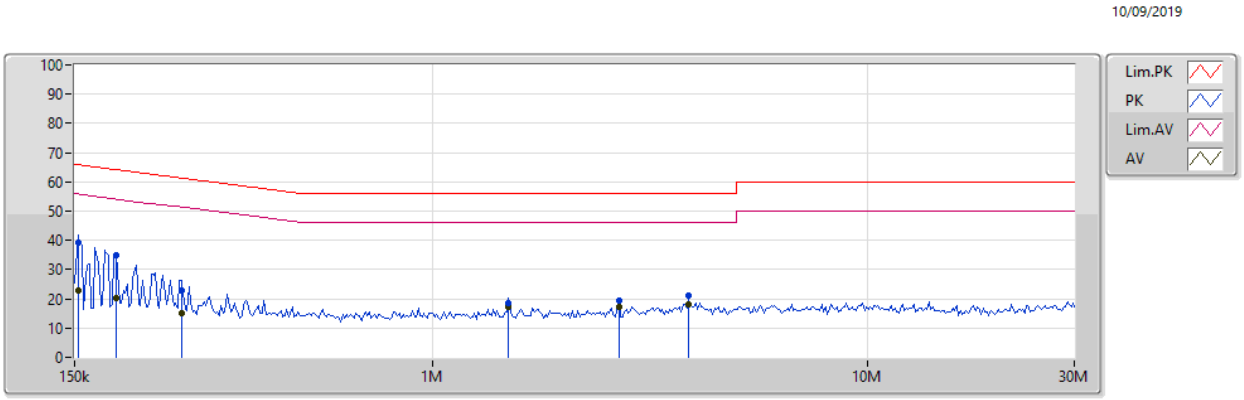
AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	Adapter Mode		

10/09/2019



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	157.652k	38.29	65.58	-27.29	19.48	Neutral	"Worst"	18.81	9.60	0.01	9.87
AV	157.652k	21.89	55.58	-33.69	19.48	Neutral	-	2.41	9.60	0.01	9.87
QP	198.194k	32.93	63.69	-30.76	19.47	Neutral	-	13.46	9.59	0.01	9.87
AV	198.194k	19.26	53.69	-34.43	19.47	Neutral	-	-0.21	9.59	0.01	9.87
QP	275.23k	21.29	60.95	-39.66	19.47	Neutral	-	1.82	9.59	0.01	9.87
AV	275.23k	14.74	50.95	-36.21	19.47	Neutral	-	-4.73	9.59	0.01	9.87
QP	1.494M	19.26	56.00	-36.74	19.52	Neutral	-	-0.26	9.60	0.03	9.89
AV	1.494M	17.69	46.00	-28.31	19.52	Neutral	-	-1.83	9.60	0.03	9.89
QP	2.687M	19.21	56.00	-36.79	19.54	Neutral	-	-0.33	9.61	0.04	9.89
AV	2.687M	17.19	46.00	-28.81	19.54	Neutral	-	-2.35	9.61	0.04	9.89
QP	3.883M	19.83	56.00	-36.17	19.55	Neutral	-	0.28	9.61	0.05	9.89
AV	3.883M	17.35	46.00	-28.65	19.55	Neutral	-	-2.20	9.61	0.05	9.89

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



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	153.015k	39.20	65.83	-26.63	19.48	Line	"Worst"	19.72	9.60	0.01	9.87
AV	153.015k	23.02	55.83	-32.81	19.48	Line	-	3.54	9.60	0.01	9.87
QP	186.707k	34.70	64.18	-29.48	19.48	Line	-	15.22	9.60	0.01	9.87
AV	186.707k	20.12	54.18	-34.06	19.48	Line	-	0.64	9.60	0.01	9.87
QP	264.49k	22.84	61.30	-38.46	19.48	Line	-	3.36	9.60	0.01	9.87
AV	264.49k	15.19	51.30	-36.11	19.48	Line	-	-4.29	9.60	0.01	9.87
QP	1.494M	18.67	56.00	-37.33	19.53	Line	-	-0.86	9.61	0.03	9.89
AV	1.494M	17.17	46.00	-28.83	19.53	Line	-	-2.36	9.61	0.03	9.89
QP	2.687M	19.35	56.00	-36.65	19.55	Line	-	-0.20	9.62	0.04	9.89
AV	2.687M	17.36	46.00	-28.64	19.55	Line	-	-2.19	9.62	0.04	9.89
QP	3.883M	21.30	56.00	-34.70	19.57	Line	-	1.73	9.63	0.05	9.89
AV	3.883M	18.20	46.00	-27.80	19.57	Line	-	-1.37	9.63	0.05	9.89

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	9.025M	14.018M	14M0G1D	7.55M	13.093M
802.11g_Nss1,(6Mbps)_2TX	16.325M	16.992M	17M0D1D	16.25M	16.367M
802.11n HT20_Nss1,(MCS0)_2TX	17.275M	17.941M	17M9D1D	15.95M	17.566M

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

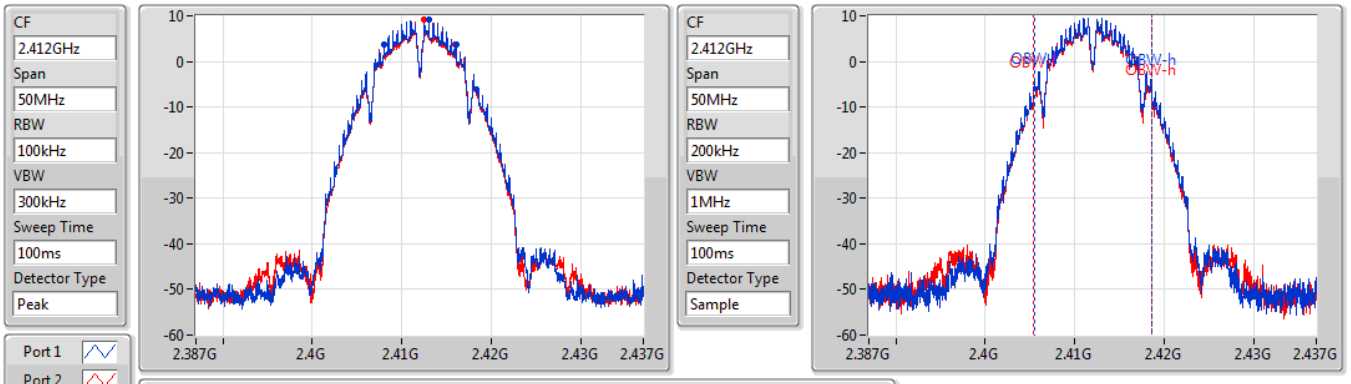
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	8.025M	13.093M	8M	13.093M
2437MHz_TnomVnom	Pass	500k	7.55M	13.218M	8.025M	13.143M
2462MHz_TnomVnom	Pass	500k	8.025M	14.018M	9.025M	13.643M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	16.275M	16.392M	16.25M	16.367M
2437MHz_TnomVnom	Pass	500k	16.25M	16.992M	16.325M	16.592M
2462MHz_TnomVnom	Pass	500k	16.275M	16.417M	16.325M	16.392M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	17.275M	17.566M	16.275M	17.591M
2437MHz_TnomVnom	Pass	500k	16.5M	17.941M	16.3M	17.741M
2462MHz_TnomVnom	Pass	500k	16.875M	17.566M	15.95M	17.566M

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

802.11b_Nss1,(1Mbps)_2TX EBW

2412MHz

26/08/2019

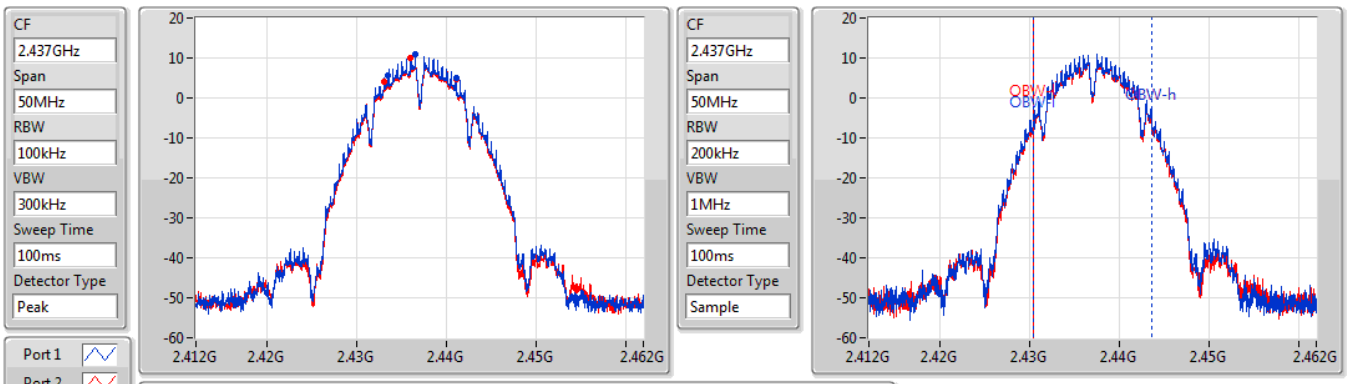


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.025M	2.408025G	2.41605G	13.093M	2.405478G	2.418572G	500k	1
8M	2.408025G	2.416025G	13.093M	2.405453G	2.418547G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2437MHz

26/08/2019

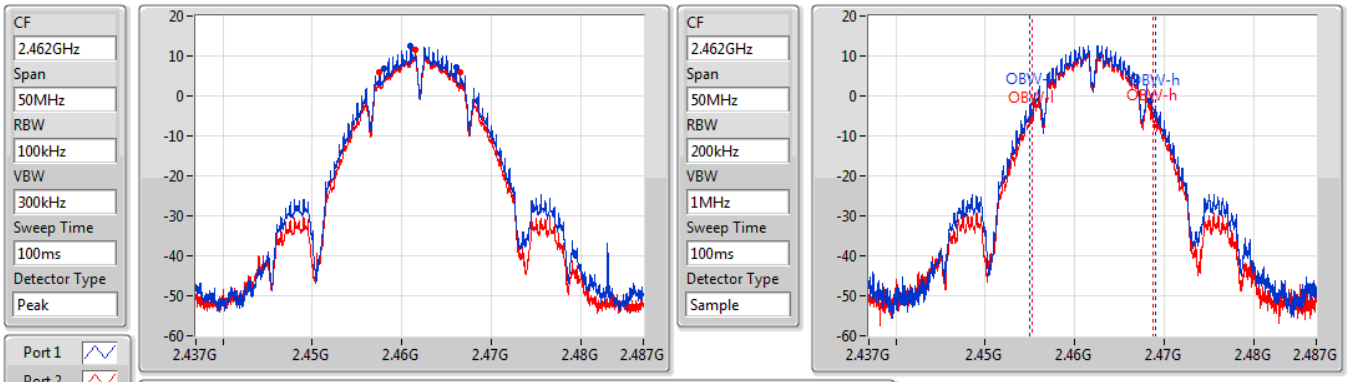


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.55M	2.4335G	2.44105G	13.218M	2.430378G	2.443597G	500k	1
8.025M	2.433025G	2.44105G	13.143M	2.430453G	2.443597G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2462MHz

26/08/2019

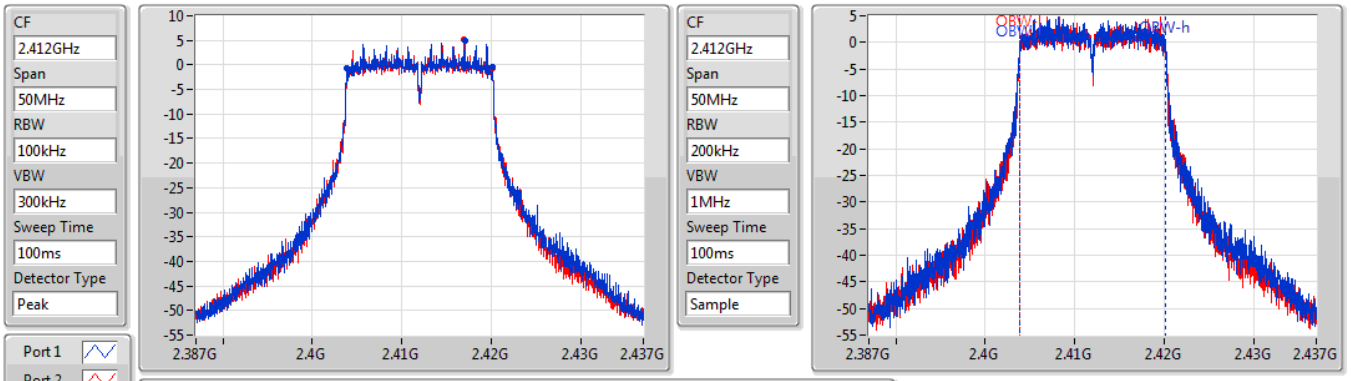


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.025M	2.458025G	2.46605G	14.018M	2.455003G	2.469021G	500k	1
9.025M	2.457525G	2.46655G	13.643M	2.455178G	2.468822G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2412MHz

26/08/2019

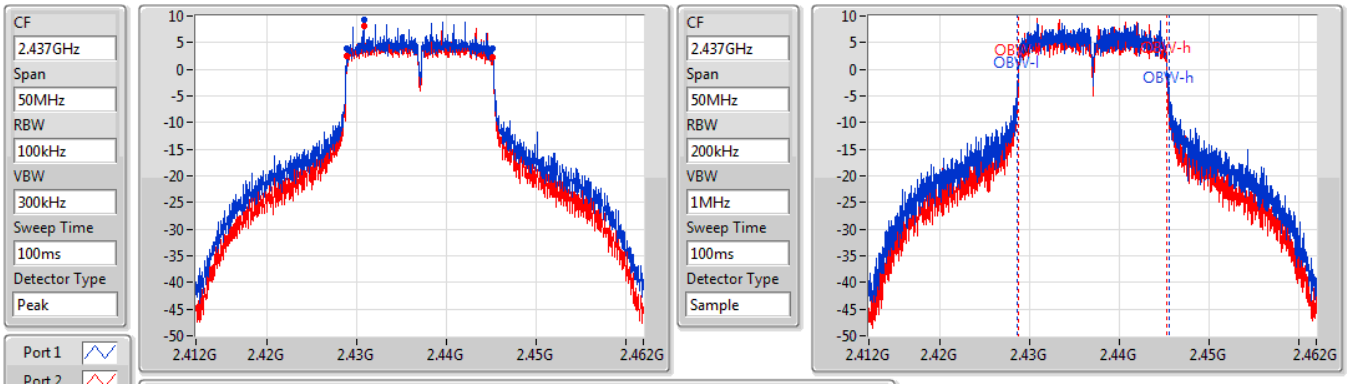


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.275M	2.403875G	2.42015G	16.392M	2.403804G	2.420196G	500k	1
16.25M	2.403875G	2.420125G	16.367M	2.403829G	2.420196G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2437MHz

26/08/2019

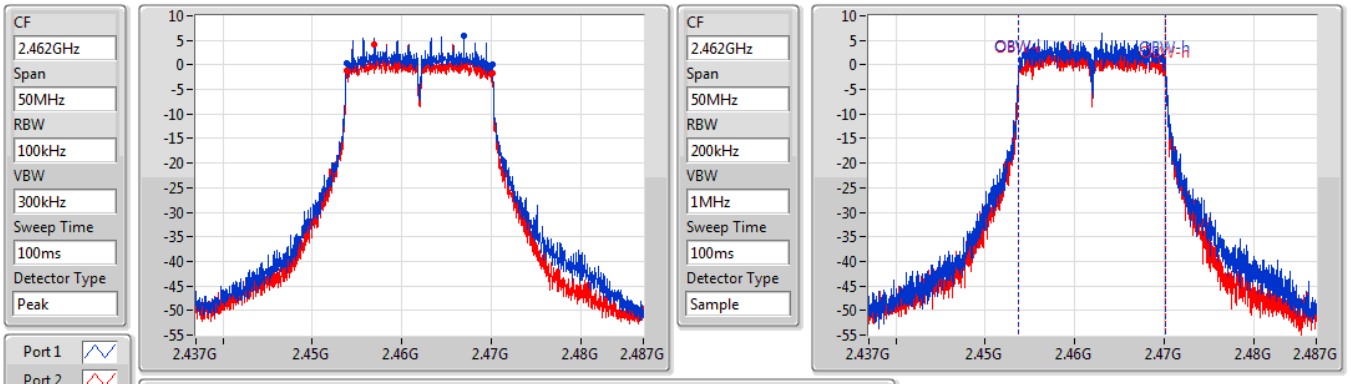


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.25M	2.4289G	2.44515G	16.992M	2.428554G	2.445546G	500k	1
16.325M	2.428875G	2.4452G	16.592M	2.428729G	2.445321G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2462MHz

26/08/2019

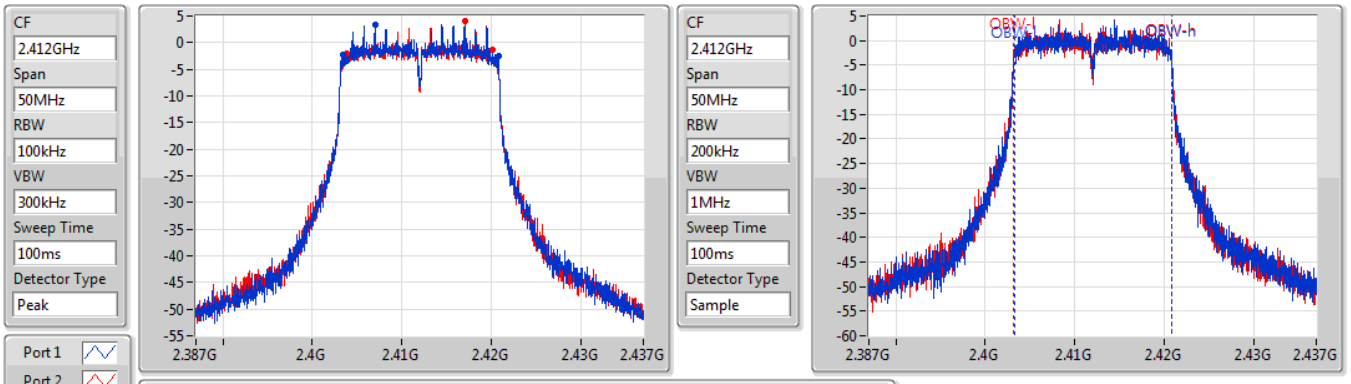


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.275M	2.45385G	2.470125G	16.417M	2.453754G	2.470171G	500k	1
16.325M	2.453825G	2.47015G	16.392M	2.453779G	2.470171G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

2412MHz

26/08/2019

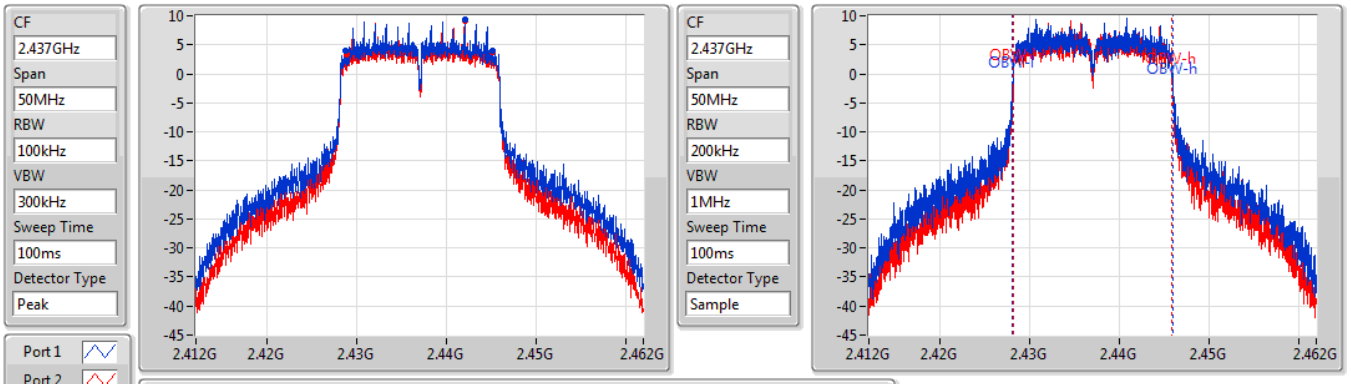


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.275M	2.4035G	2.420775G	17.566M	2.403229G	2.420796G	500k	1
16.275M	2.403875G	2.42015G	17.591M	2.403204G	2.420796G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

2437MHz

26/08/2019

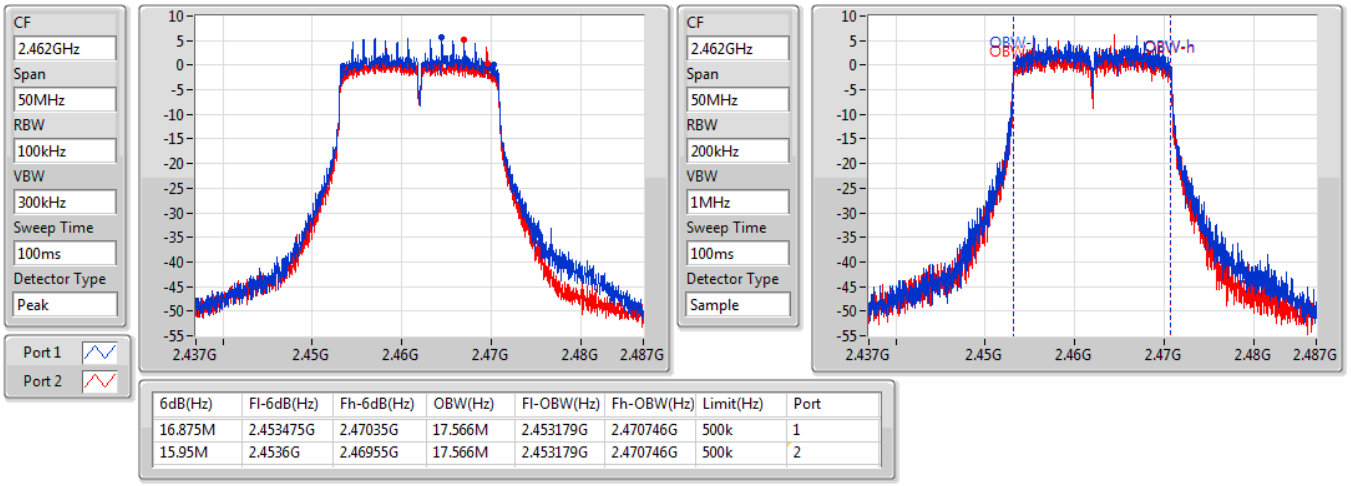


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.5M	2.428675G	2.445175G	17.941M	2.428079G	2.44602G	500k	1
16.3M	2.428875G	2.445175G	17.741M	2.428154G	2.445896G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

2462MHz

26/08/2019



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.875M	2.453475G	2.47035G	17.566M	2.453179G	2.470746G	500k	1
15.95M	2.4536G	2.46955G	17.566M	2.453179G	2.470746G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	23.85	0.24266
802.11g_Nss1,(6Mbps)_2TX	23.08	0.20324
802.11n HT20_Nss1,(MCS0)_2TX	22.92	0.19588

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	2.66	17.78	17.34	20.58	30.00
2417MHz_TnomVnom	Pass	2.66	18.84	18.30	21.59	30.00
2437MHz_TnomVnom	Pass	2.66	18.99	18.47	21.75	30.00
2462MHz_TnomVnom	Pass	2.66	21.28	20.36	23.85	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.66	15.53	15.17	18.36	30.00
2417MHz_TnomVnom	Pass	2.66	19.18	18.66	21.94	30.00
2437MHz_TnomVnom	Pass	2.66	20.41	19.70	23.08	30.00
2457MHz_TnomVnom	Pass	2.66	17.77	17.05	20.44	30.00
2462MHz_TnomVnom	Pass	2.66	16.85	15.46	19.22	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.66	14.24	14.15	17.21	30.00
2417MHz_TnomVnom	Pass	2.66	18.17	17.62	20.91	30.00
2437MHz_TnomVnom	Pass	2.66	20.21	19.58	22.92	30.00
2457MHz_TnomVnom	Pass	2.66	17.61	16.86	20.26	30.00
2462MHz_TnomVnom	Pass	2.66	16.24	15.18	18.75	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	-1.01
802.11g_Nss1,(6Mbps)_2TX	-4.46
802.11n HT20_Nss1,(MCS0)_2TX	-3.99

RBW=3 kHz.

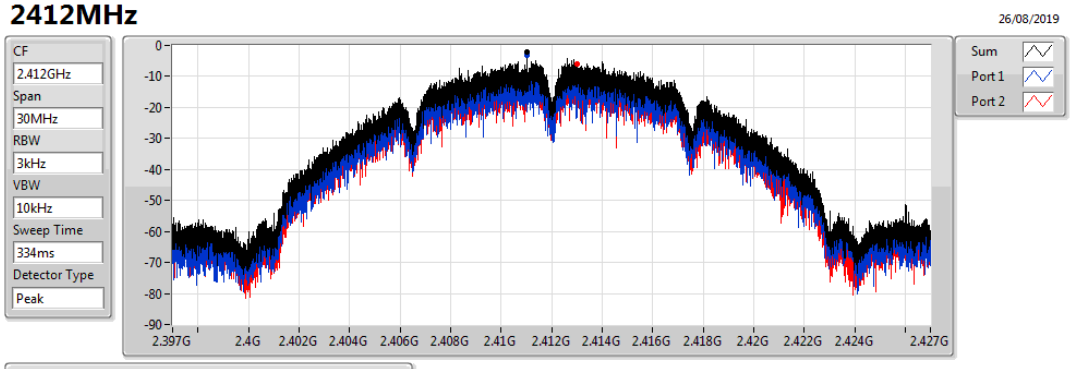
Result

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	5.67	-3.02	-5.95	-2.28	8.00
2437MHz_TnomVnom	Pass	5.67	-3.99	-5.40	-3.21	8.00
2462MHz_TnomVnom	Pass	5.67	-2.65	-3.63	-1.01	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	5.67	-9.84	-10.06	-7.54	8.00
2437MHz_TnomVnom	Pass	5.67	-5.26	-6.46	-4.46	8.00
2462MHz_TnomVnom	Pass	5.67	-7.92	-10.69	-7.40	8.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	5.67	-11.13	-11.25	-8.19	8.00
2437MHz_TnomVnom	Pass	5.67	-5.11	-6.98	-3.99	8.00
2462MHz_TnomVnom	Pass	5.67	-9.16	-10.62	-8.41	8.00

DG = Directional Gain; RBW=3 kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_2TX PSD

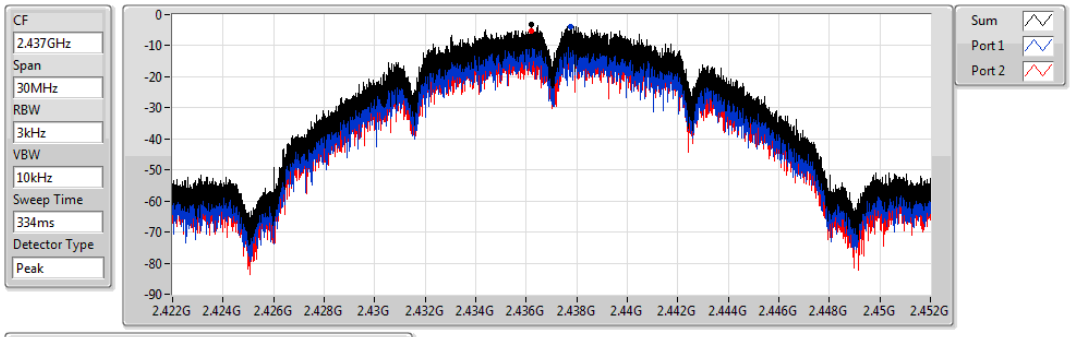
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.28	-2.28	-3.02	-5.95

802.11b_Nss1,(1Mbps)_2TX PSD

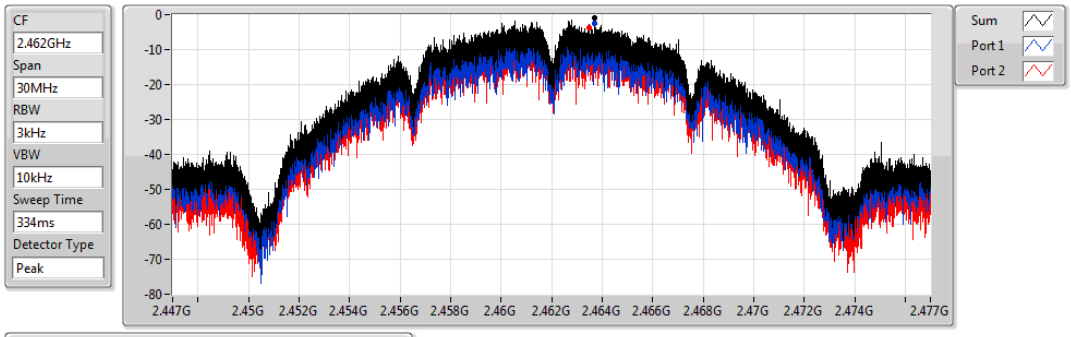
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.21	-3.21	-3.99	-5.40

802.11b_Nss1,(1Mbps)_2TX PSD

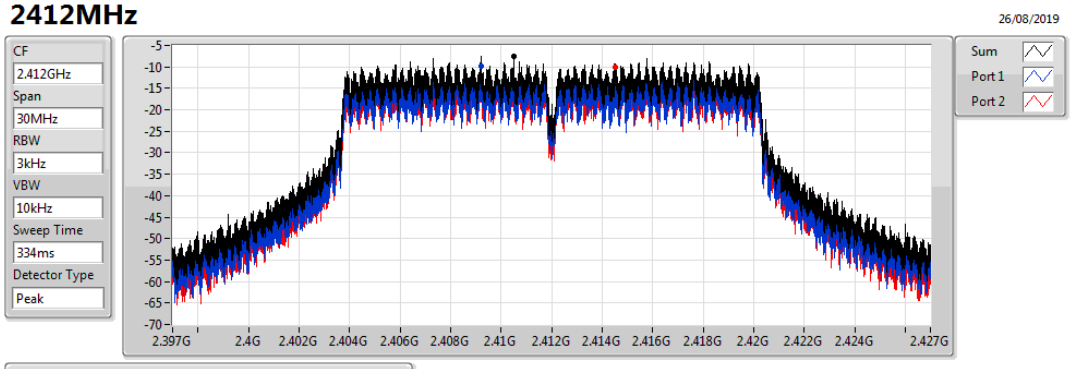
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.01	-1.01	-2.65	-3.63

802.11g_Nss1,(6Mbps)_2TX PSD

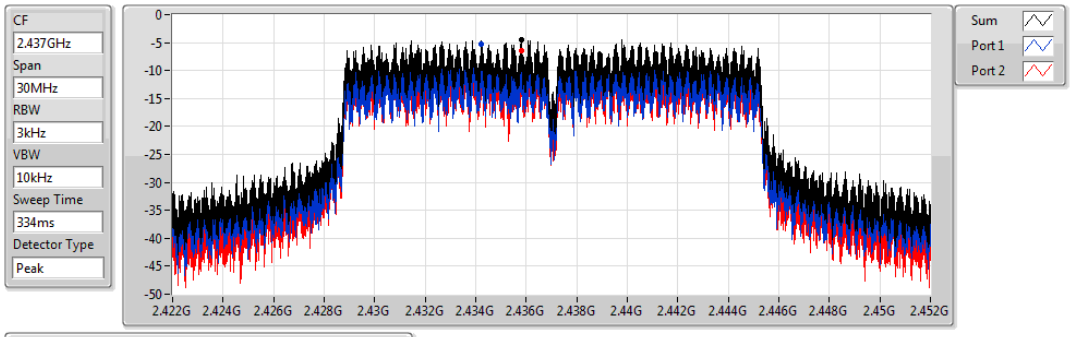
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.54	-7.54	-9.84	-10.06

802.11g_Nss1,(6Mbps)_2TX PSD

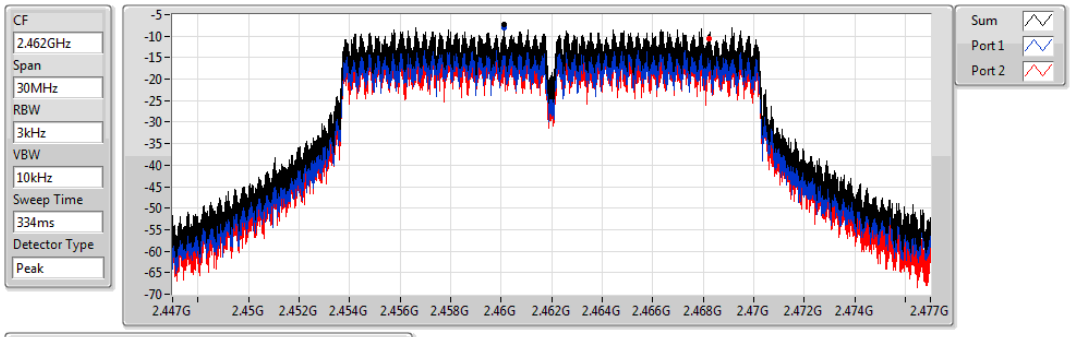
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.46	-4.46	-5.26	-6.46

802.11g_Nss1,(6Mbps)_2TX PSD

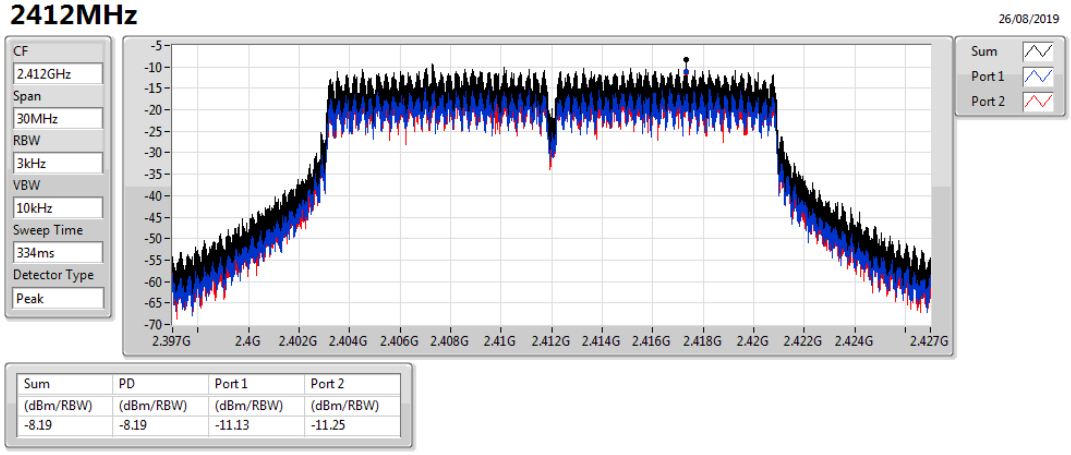
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.40	-7.40	-7.92	-10.69

802.11n HT20_Nss1,(MCS0)_2TX PSD

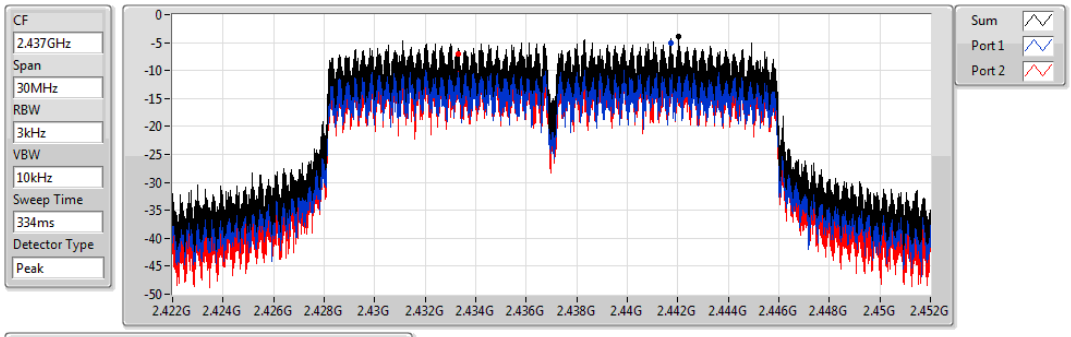
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.19	-8.19	-11.13	-11.25

802.11n HT20_Nss1,(MCS0)_2TX PSD

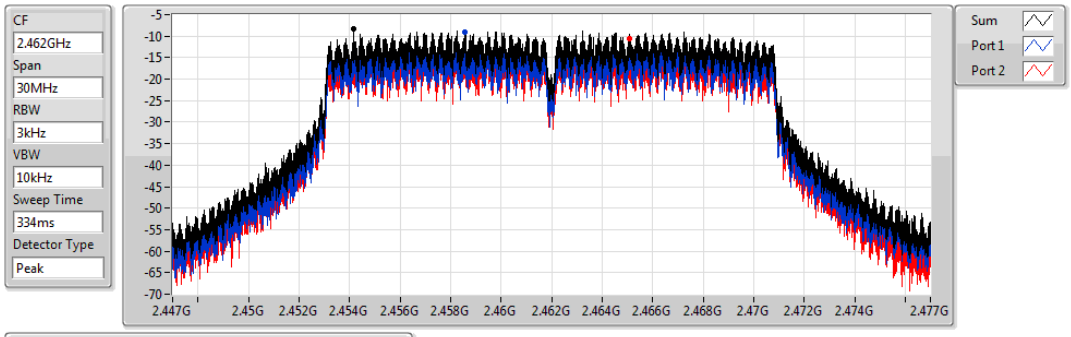
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.99	-3.99	-5.11	-6.98

802.11n HT20_Nss1,(MCS0)_2TX PSD

2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.41	-8.41	-9.16	-10.62

Summary

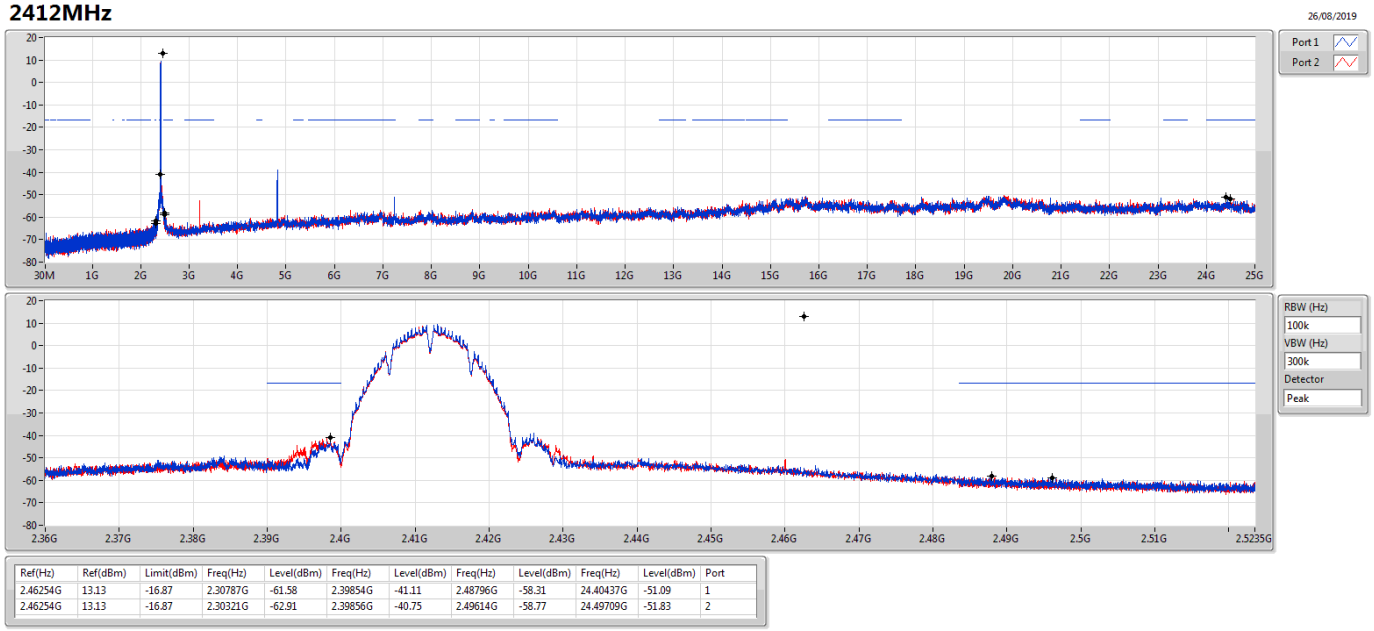
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.46254G	13.13	-16.87	2.30321G	-62.91	2.39856G	-40.75	2.49614G	-58.77	24.49709G	-51.83	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43202G	10.04	-19.96	2.30321G	-62.73	2.3998G	-28.36	2.48414G	-56.18	24.51956G	-51.20	2
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.43202G	10.08	-19.92	2.30932G	-61.77	2.3999G	-31.10	2.48372G	-57.31	3.21465G	-51.43	2

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	2.46254G	13.13	-16.87	2.30787G	-61.58	2.39854G	-41.11	2.48796G	-58.31	24.40437G	-51.09	1
2412MHz_TnomVnom	Pass	2.46254G	13.13	-16.87	2.30321G	-62.91	2.39856G	-40.75	2.49614G	-58.77	24.49709G	-51.83	2
2437MHz_TnomVnom	Pass	2.46254G	13.13	-16.87	2.30554G	-63.35	2.39328G	-50.30	2.48412G	-54.08	23.45193G	-51.96	1
2437MHz_TnomVnom	Pass	2.46254G	13.13	-16.87	1.92138G	-64.03	2.3972G	-52.55	2.48502G	-51.33	15.3042G	-51.69	2
2462MHz_TnomVnom	Pass	2.46254G	13.13	-16.87	2.30758G	-64.42	2.39488G	-57.35	2.48804G	-46.17	15.31825G	-50.81	1
2462MHz_TnomVnom	Pass	2.46254G	13.13	-16.87	2.30612G	-63.65	2.3996G	-57.15	2.48404G	-52.12	15.34634G	-51.10	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43202G	10.04	-19.96	2.30292G	-63.10	2.39952G	-28.99	2.48434G	-57.41	15.34915G	-51.60	1
2412MHz_TnomVnom	Pass	2.43202G	10.04	-19.96	2.30321G	-62.73	2.3998G	-28.36	2.48414G	-56.18	24.51956G	-51.20	2
2437MHz_TnomVnom	Pass	2.43202G	10.04	-19.96	2.30583G	-63.59	2.39892G	-48.25	2.48372G	-52.77	15.34353G	-51.59	1
2437MHz_TnomVnom	Pass	2.43202G	10.04	-19.96	2.30641G	-62.09	2.39932G	-49.49	2.485G	-50.31	16.49264G	-51.16	2
2462MHz_TnomVnom	Pass	2.43202G	10.08	-19.92	2.30525G	-62.81	2.39838G	-55.36	2.48382G	-43.25	15.09629G	-51.39	1
2462MHz_TnomVnom	Pass	2.43202G	10.08	-19.92	2.30728G	-63.49	2.39864G	-55.19	2.48484G	-48.44	15.34353G	-51.61	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43202G	10.08	-19.92	2.3035G	-60.62	2.39978G	-31.11	2.48432G	-57.34	15.34353G	-51.87	1
2412MHz_TnomVnom	Pass	2.43202G	10.08	-19.92	2.30932G	-61.77	2.3999G	-31.10	2.48372G	-57.31	3.21465G	-51.43	2
2437MHz_TnomVnom	Pass	2.43202G	10.08	-19.92	2.30379G	-62.87	2.39952G	-47.63	2.48424G	-53.02	16.23697G	-51.43	1
2437MHz_TnomVnom	Pass	2.43202G	10.08	-19.92	2.3067G	-62.31	2.3992G	-49.43	2.48502G	-51.15	24.15151G	-51.98	2
2462MHz_TnomVnom	Pass	2.43202G	10.08	-19.92	2.30262G	-62.79	2.39936G	-54.60	2.48386G	-46.43	15.08505G	-50.78	1
2462MHz_TnomVnom	Pass	2.43202G	10.08	-19.92	2.30204G	-63.14	2.39794G	-55.40	2.48358G	-48.61	16.20326G	-51.56	2

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

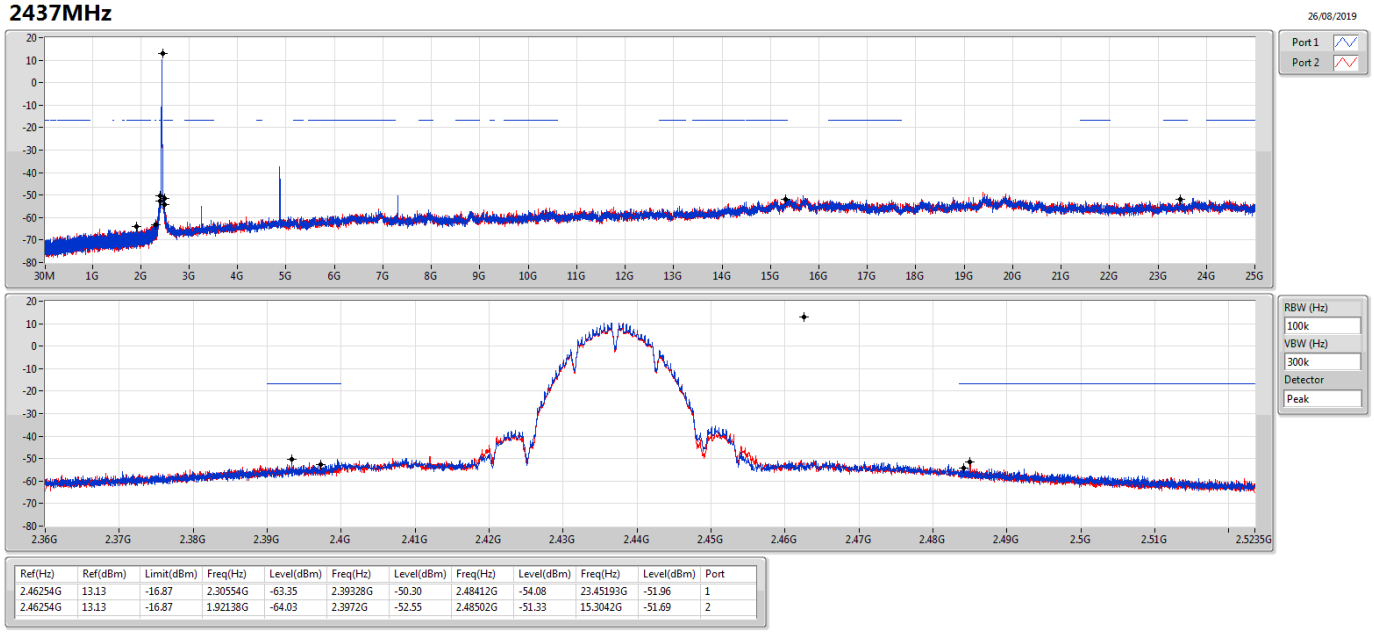
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46254G	13.13	-16.87	2.30787G	-61.58	2.39854G	-41.11	2.48796G	-58.31	24.40437G	-51.09	1
2.46254G	13.13	-16.87	2.30321G	-62.91	2.39856G	-40.75	2.49614G	-58.77	24.49709G	-51.83	2

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

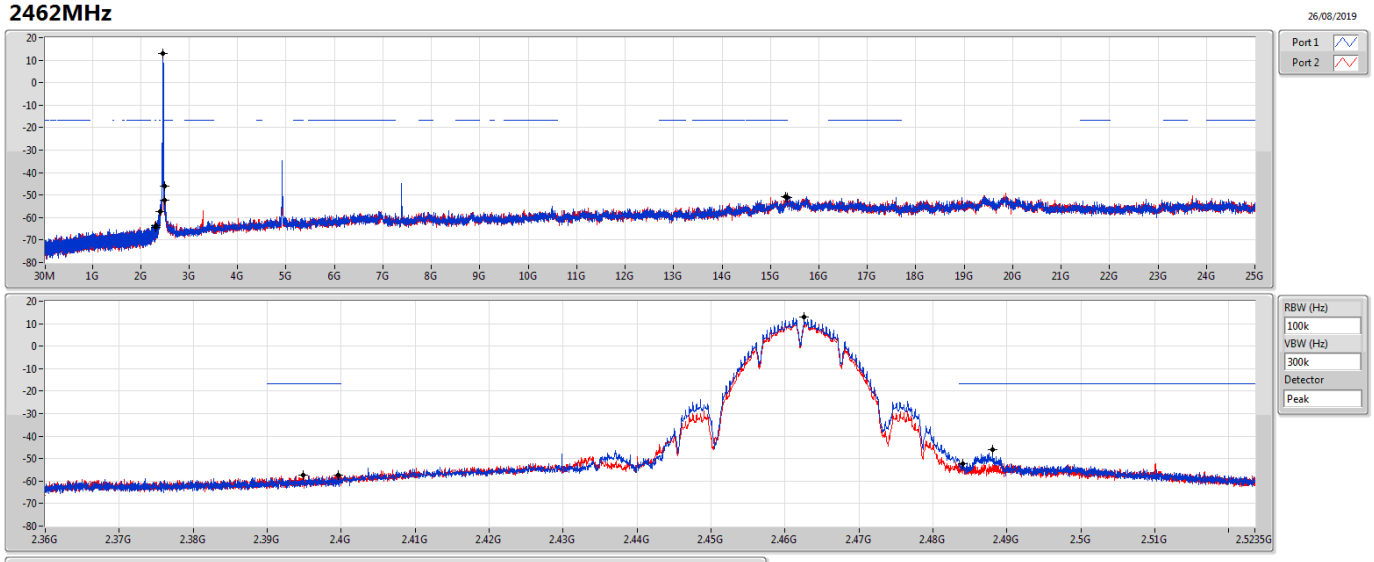
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46254G	13.13	-16.87	2.30554G	-63.35	2.39328G	-50.30	2.48412G	-54.08	23.45193G	-51.96	1
2.46254G	13.13	-16.87	1.92138G	-64.03	2.3972G	-52.55	2.48502G	-51.33	15.3042G	-51.69	2

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

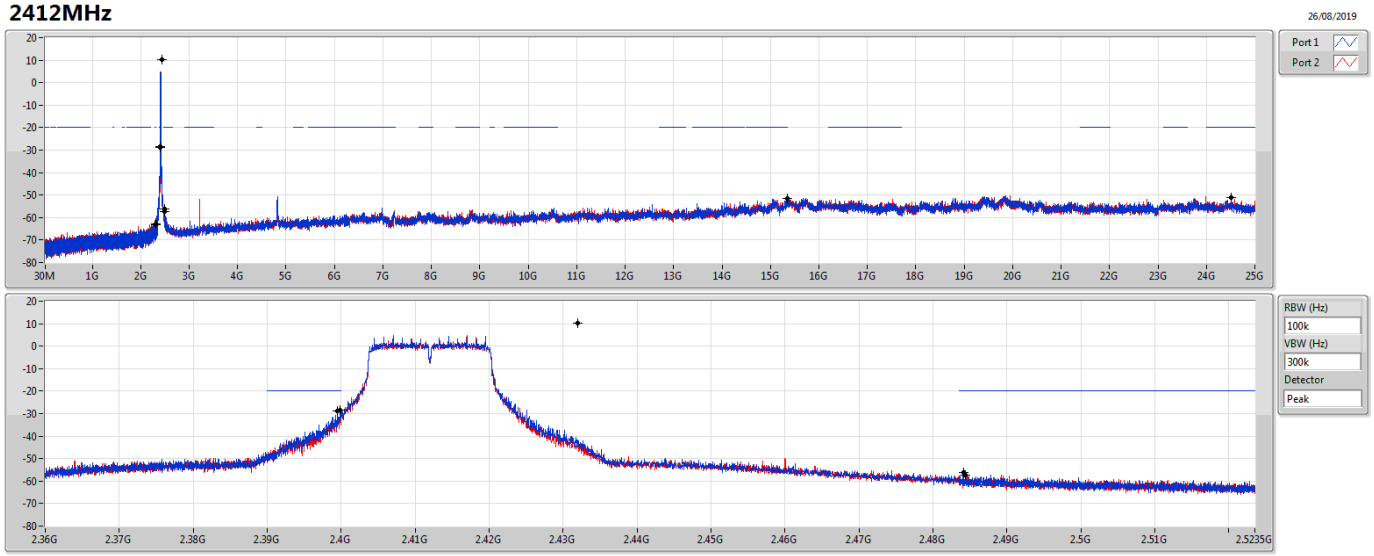
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46254G	13.13	-16.87	2.30758G	-64.42	2.39488G	-57.35	2.48804G	-46.17	15.31825G	-50.81	1
2.46254G	13.13	-16.87	2.30612G	-63.65	2.3996G	-57.15	2.48404G	-52.12	15.34634G	-51.10	2

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

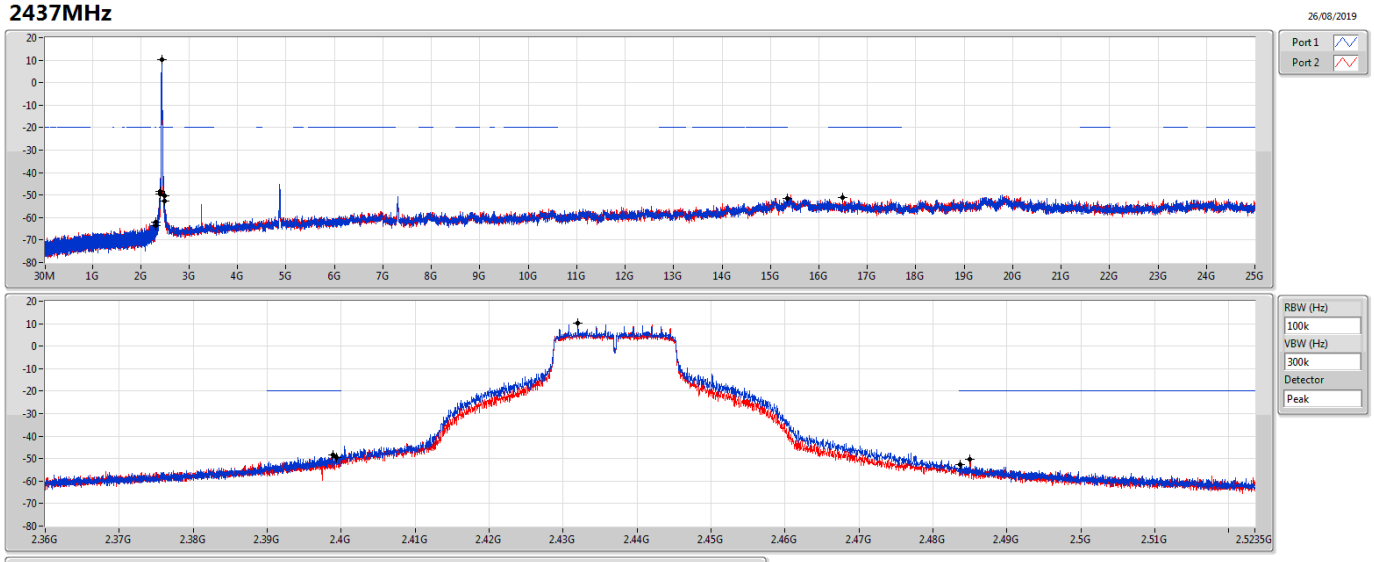
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	10.04	-19.96	2.30292G	-63.10	2.39952G	-28.99	2.48434G	-57.41	15.34915G	-51.60	1
2.43202G	10.04	-19.96	2.30321G	-62.73	2.3998G	-28.36	2.48414G	-56.18	24.51956G	-51.20	2

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

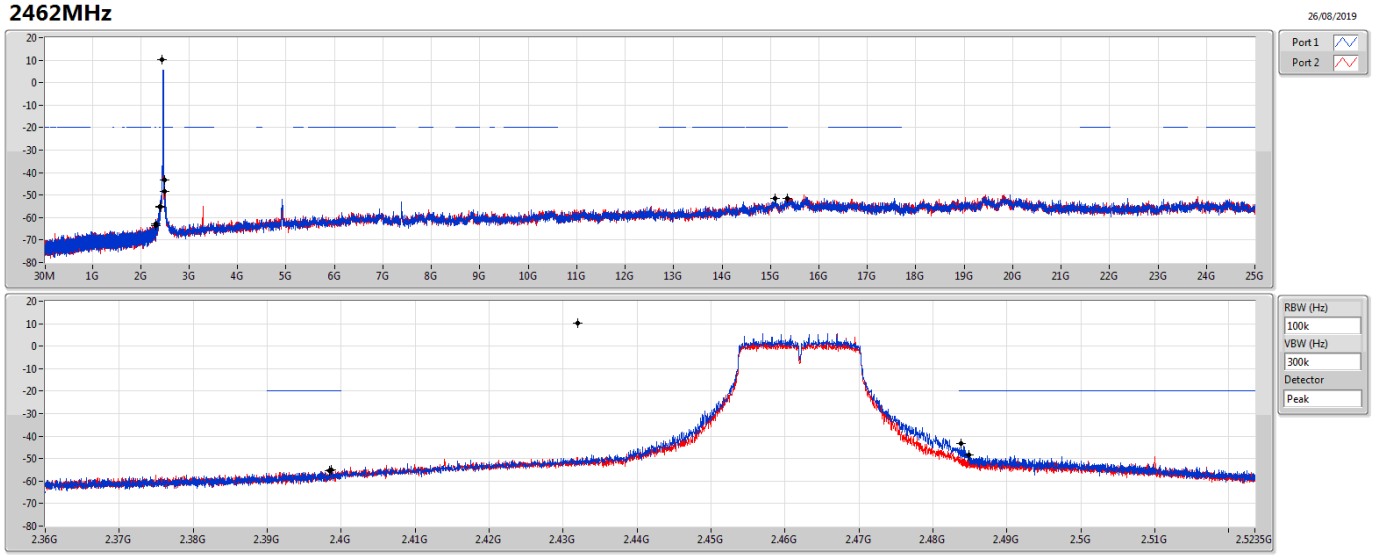
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	10.04	-19.96	2.30583G	-63.59	2.39892G	-48.25	2.48372G	-52.77	15.34353G	-51.59	1
2.43202G	10.04	-19.96	2.30641G	-62.09	2.39932G	-49.49	2.485G	-50.31	16.49264G	-51.16	2

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

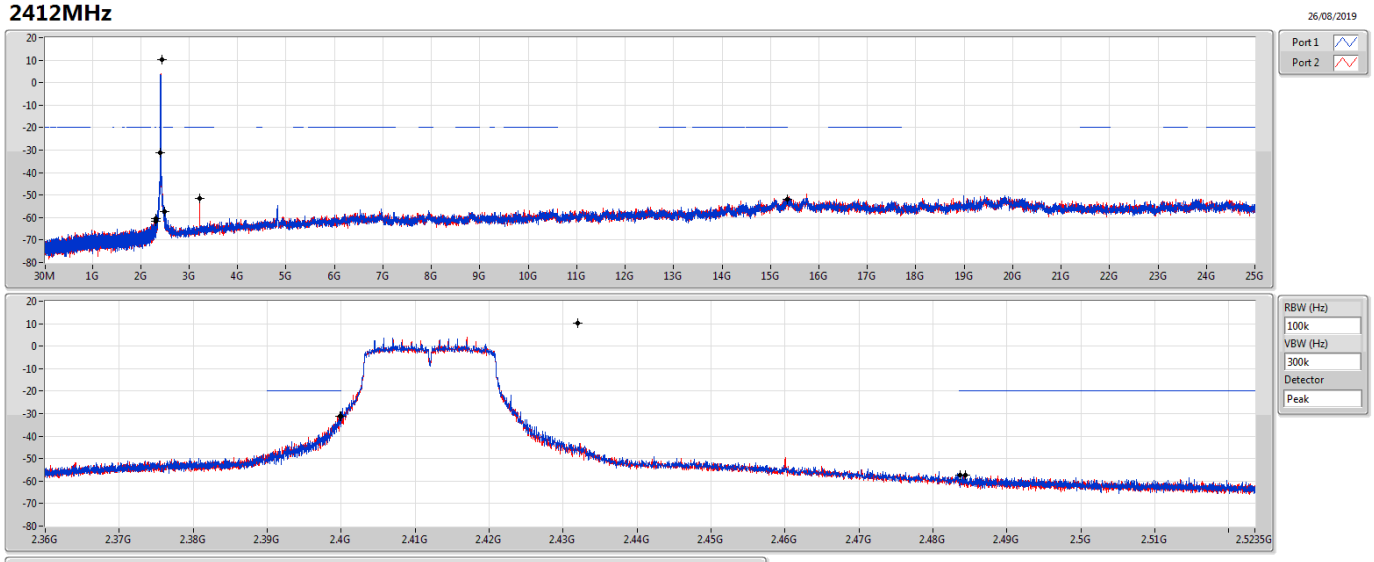
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	10.08	-19.92	2.30525G	-62.81	2.39838G	-55.36	2.48382G	-43.25	15.09629G	-51.39	1
2.43202G	10.08	-19.92	2.30728G	-63.49	2.39864G	-55.19	2.48484G	-48.44	15.34353G	-51.61	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

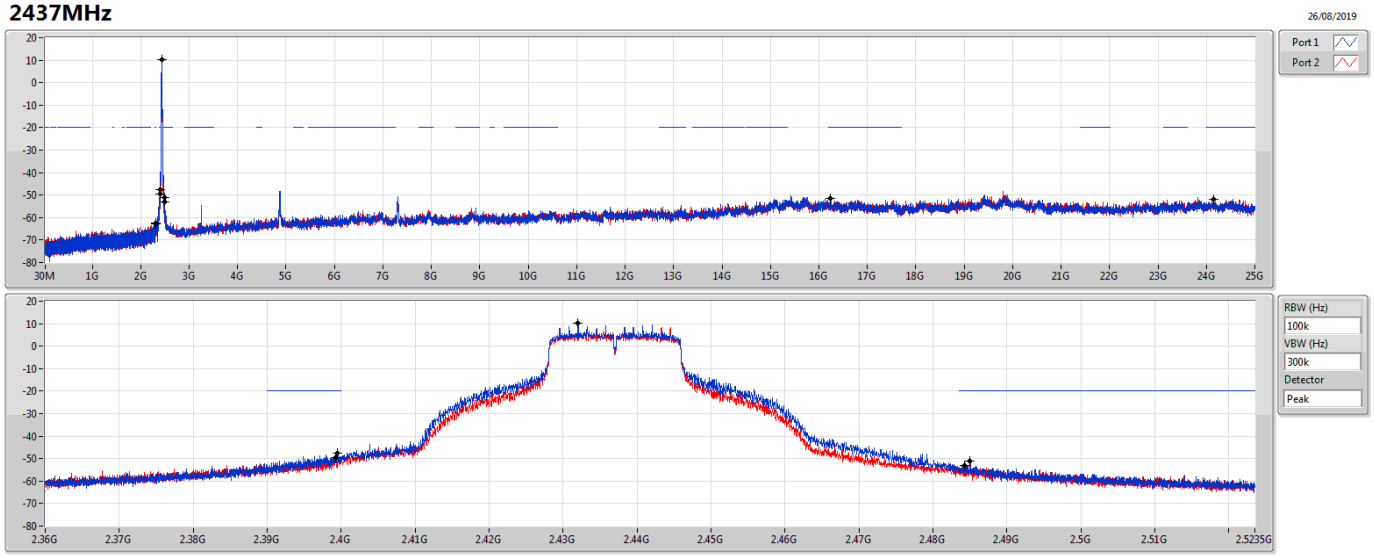
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	10.08	-19.92	2.3035G	-60.62	2.39978G	-31.11	2.48432G	-57.34	15.34353G	-51.87	1
2.43202G	10.08	-19.92	2.30932G	-61.77	2.3999G	-31.10	2.48372G	-57.31	3.21465G	-51.43	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

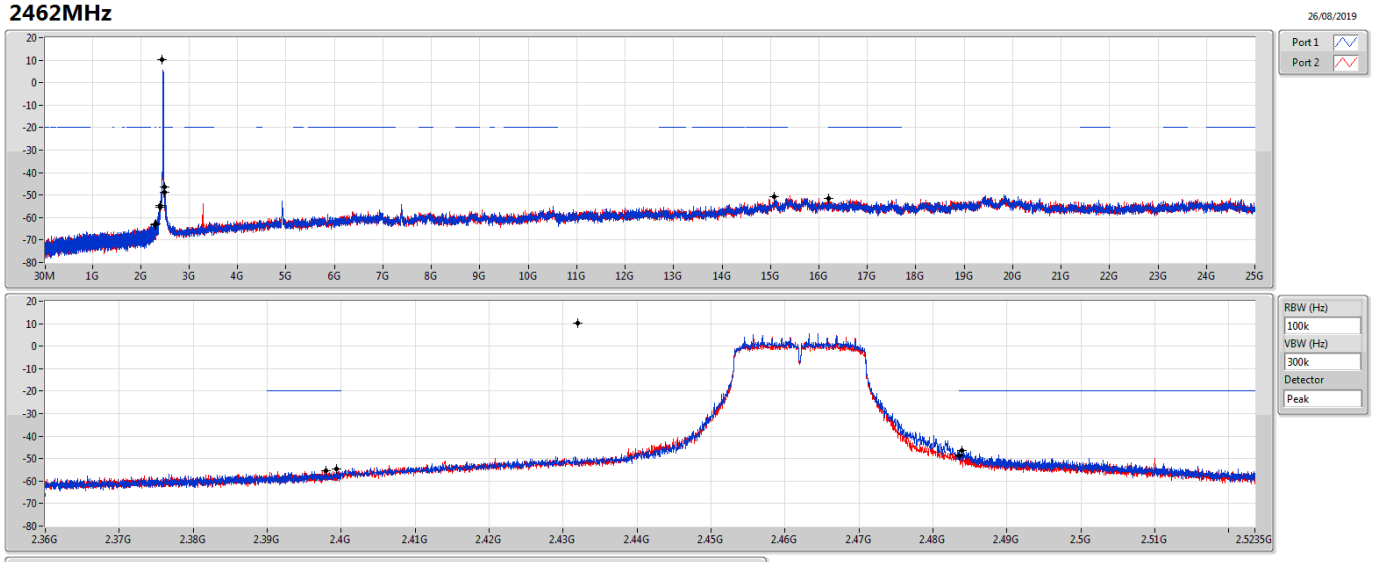
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	10.08	-19.92	2.30379G	-62.87	2.39952G	-47.63	2.48424G	-53.02	16.23697G	-51.43	1
2.43202G	10.08	-19.92	2.3067G	-62.31	2.3992G	-49.43	2.48502G	-51.15	24.15151G	-51.98	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	10.08	-19.92	2.30262G	-62.79	2.39936G	-54.60	2.48386G	-46.43	15.08505G	-50.78	1
2.43202G	10.08	-19.92	2.30204G	-63.14	2.39794G	-55.40	2.48358G	-48.61	16.20326G	-51.56	2

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	QP	840.01M	41.56	46.00	-4.44	3	Horizontal	230	1.00	-

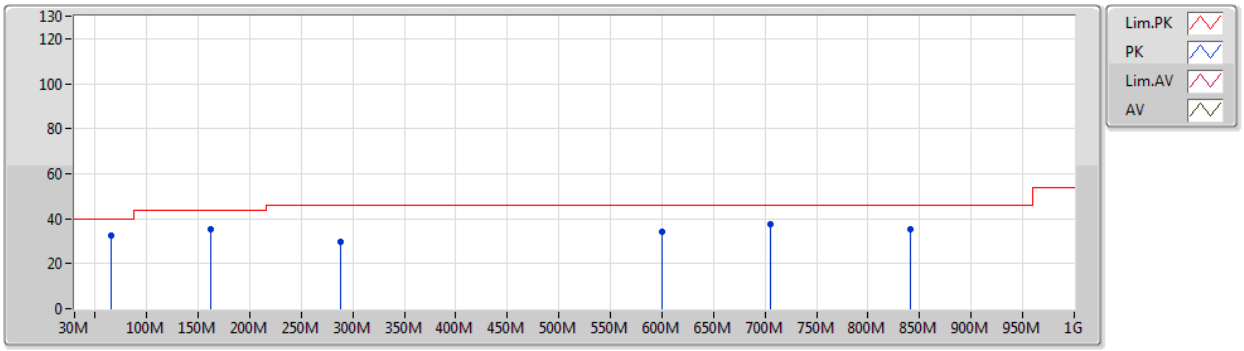
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	64.92M	32.76	40.00	-7.24	3	Vertical	0	1.00	-
2437MHz	Pass	PK	161.92M	35.13	43.50	-8.37	3	Vertical	0	1.00	-
2437MHz	Pass	PK	288.02M	29.93	46.00	-16.07	3	Vertical	0	1.00	-
2437MHz	Pass	PK	600.36M	34.31	46.00	-11.69	3	Vertical	0	1.00	-
2437MHz	Pass	PK	705.12M	37.62	46.00	-8.38	3	Vertical	0	1.00	-
2437MHz	Pass	PK	840.92M	35.40	46.00	-10.60	3	Vertical	0	1.00	-
2437MHz	Pass	PK	62.98M	28.29	40.00	-11.71	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	156.1M	35.79	43.50	-7.71	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	231.76M	31.98	46.00	-14.02	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	600.36M	33.51	46.00	-12.49	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	712.88M	35.06	46.00	-10.94	3	Horizontal	360	1.00	-
2437MHz	Pass	QP	840.01M	41.56	46.00	-4.44	3	Horizontal	230	1.00	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_Adapter

26/09/2019

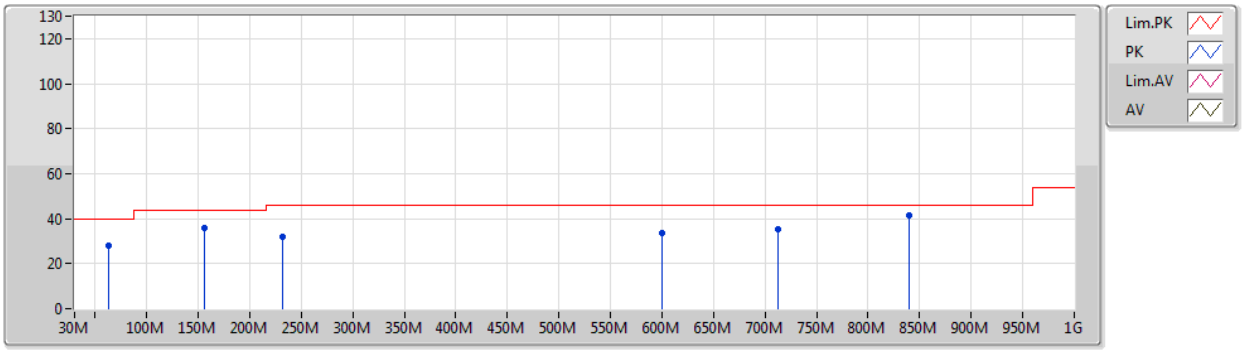


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	64.92M	32.76	40.00	-7.24	-25.36	3	Vertical	0	1.00	-	58.12	11.05	0.64	37.05
PK	161.92M	35.13	43.50	-8.37	-19.93	3	Vertical	0	1.00	-	55.06	15.54	1.05	36.52
PK	288.02M	29.93	46.00	-16.07	-16.91	3	Vertical	0	1.00	-	46.84	18.16	1.40	36.47
PK	600.36M	34.31	46.00	-11.69	-10.43	3	Vertical	0	1.00	-	44.74	24.70	2.09	37.22
PK	705.12M	37.62	46.00	-8.38	-9.18	3	Vertical	0	1.00	-	46.80	25.90	2.29	37.37
PK	840.92M	35.40	46.00	-10.60	-6.75	3	Vertical	0	1.00	-	42.15	28.26	2.49	37.50

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_Adapter

26/09/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	62.98M	28.29	40.00	-11.71	-25.41	3	Horizontal	360	1.00	-	53.70	11.02	0.63	37.06
PK	156.1M	35.79	43.50	-7.71	-19.58	3	Horizontal	360	1.00	-	55.37	15.95	1.02	36.55
PK	231.76M	31.98	46.00	-14.02	-19.54	3	Horizontal	360	1.00	-	51.52	15.61	1.25	36.40
PK	600.36M	33.51	46.00	-12.49	-10.43	3	Horizontal	360	1.00	-	43.94	24.70	2.09	37.22
PK	712.88M	35.06	46.00	-10.94	-8.99	3	Horizontal	360	1.00	-	44.05	26.09	2.30	37.38
QP	840.01M	41.56	46.00	-4.44	-6.76	3	Horizontal	230	1.00	-	48.32	28.25	2.49	37.50

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	2.4836G	50.79	54.00	-3.21	3	Horizontal	44	1.50	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.3898G	50.92	54.00	-3.08	3	Horizontal	46	1.21	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.39G	50.81	54.00	-3.19	3	Horizontal	46	1.01	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.4656G	94.76	Inf	-Inf	3	Vertical	266	2.07	-
2412MHz	Pass	AV	2.4835G	47.35	54.00	-6.65	3	Vertical	266	2.07	-
2412MHz	Pass	PK	2.466G	104.53	Inf	-Inf	3	Vertical	266	2.07	-
2412MHz	Pass	PK	2.5G	59.89	74.00	-14.11	3	Vertical	266	2.07	-
2412MHz	Pass	AV	2.4668G	99.95	Inf	-Inf	3	Horizontal	44	1.50	-
2412MHz	Pass	AV	2.4836G	50.79	54.00	-3.21	3	Horizontal	44	1.50	-
2412MHz	Pass	PK	2.4674G	110.02	Inf	-Inf	3	Horizontal	44	1.50	-
2412MHz	Pass	PK	2.4835G	63.05	74.00	-10.95	3	Horizontal	44	1.50	-
2412MHz	Pass	AV	4.92432G	34.46	54.00	-19.54	3	Vertical	232	1.00	-
2412MHz	Pass	PK	4.92395G	47.73	74.00	-26.27	3	Vertical	232	1.00	-
2412MHz	Pass	AV	4.92167G	35.06	54.00	-18.94	3	Horizontal	11	1.03	-
2412MHz	Pass	PK	4.92158G	47.70	74.00	-26.30	3	Horizontal	11	1.03	-
2417MHz	Pass	AV	2.3802G	46.86	54.00	-7.14	3	Vertical	266	1.58	-
2417MHz	Pass	AV	2.4162G	103.31	Inf	-Inf	3	Vertical	266	1.58	-
2417MHz	Pass	PK	2.3878G	59.02	74.00	-14.98	3	Vertical	266	1.58	-
2417MHz	Pass	PK	2.416G	105.43	Inf	-Inf	3	Vertical	266	1.58	-
2417MHz	Pass	AV	2.388G	47.00	54.00	-7.00	3	Horizontal	39	1.00	-
2417MHz	Pass	AV	2.4178G	106.15	Inf	-Inf	3	Horizontal	39	1.00	-
2417MHz	Pass	PK	2.3796G	60.40	74.00	-13.60	3	Horizontal	39	1.00	-
2417MHz	Pass	PK	2.4178G	109.39	Inf	-Inf	3	Horizontal	39	1.00	-
2437MHz	Pass	AV	2.3378G	46.48	54.00	-7.52	3	Vertical	269	1.50	-
2437MHz	Pass	AV	2.4362G	103.16	Inf	-Inf	3	Vertical	269	1.50	-
2437MHz	Pass	AV	2.4966G	46.57	54.00	-7.43	3	Vertical	269	1.50	-
2437MHz	Pass	PK	2.3466G	59.25	74.00	-14.75	3	Vertical	269	1.50	-
2437MHz	Pass	PK	2.4362G	105.36	Inf	-Inf	3	Vertical	269	1.50	-
2437MHz	Pass	PK	2.4946G	58.84	74.00	-15.16	3	Vertical	269	1.50	-
2437MHz	Pass	AV	2.3858G	46.92	54.00	-7.08	3	Horizontal	47	1.41	-
2437MHz	Pass	AV	2.4378G	107.90	Inf	-Inf	3	Horizontal	47	1.41	-
2437MHz	Pass	AV	2.4862G	47.18	54.00	-6.82	3	Horizontal	47	1.41	-
2437MHz	Pass	PK	2.3542G	59.36	74.00	-14.64	3	Horizontal	47	1.41	-
2437MHz	Pass	PK	2.4378G	110.26	Inf	-Inf	3	Horizontal	47	1.41	-
2437MHz	Pass	PK	2.4835G	59.73	74.00	-14.27	3	Horizontal	47	1.41	-
2437MHz	Pass	AV	4.874G	49.83	54.00	-4.17	3	Vertical	236	1.00	-
2437MHz	Pass	PK	4.87396G	54.49	74.00	-19.51	3	Vertical	236	1.00	-
2437MHz	Pass	AV	4.87399G	46.73	54.00	-7.27	3	Horizontal	13	1.08	-
2437MHz	Pass	PK	4.87401G	51.78	74.00	-22.22	3	Horizontal	13	1.08	-
2462MHz	Pass	AV	2.4628G	105.36	Inf	-Inf	3	Vertical	304	1.50	-
2462MHz	Pass	AV	2.491G	46.95	54.00	-7.05	3	Vertical	304	1.50	-
2462MHz	Pass	PK	2.4628G	107.48	Inf	-Inf	3	Vertical	304	1.50	-
2462MHz	Pass	PK	2.4874G	59.30	74.00	-14.70	3	Vertical	304	1.50	-
2462MHz	Pass	AV	2.4628G	109.75	Inf	-Inf	3	Horizontal	42	2.76	-
2462MHz	Pass	AV	2.4835G	49.88	54.00	-4.12	3	Horizontal	42	2.76	-
2462MHz	Pass	PK	2.4628G	112.01	Inf	-Inf	3	Horizontal	42	2.76	-
2462MHz	Pass	PK	2.4864G	61.08	74.00	-12.92	3	Horizontal	42	2.76	-
2462MHz	Pass	AV	4.92392G	49.76	54.00	-4.24	3	Vertical	241	1.00	-
2462MHz	Pass	PK	4.92395G	54.33	74.00	-19.67	3	Vertical	241	1.00	-
2462MHz	Pass	AV	4.92398G	49.35	54.00	-4.65	3	Horizontal	16	1.09	-

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	4.924G	53.59	74.00	-20.41	3	Horizontal	16	1.09	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	47.97	54.00	-6.03	3	Vertical	270	1.90	-
2412MHz	Pass	AV	2.4084G	95.59	Inf	-Inf	3	Vertical	270	1.90	-
2412MHz	Pass	PK	2.3898G	59.81	74.00	-14.19	3	Vertical	270	1.90	-
2412MHz	Pass	PK	2.4082G	105.08	Inf	-Inf	3	Vertical	270	1.90	-
2412MHz	Pass	AV	2.3898G	50.92	54.00	-3.08	3	Horizontal	46	1.21	-
2412MHz	Pass	AV	2.4058G	100.03	Inf	-Inf	3	Horizontal	46	1.21	-
2412MHz	Pass	PK	2.3892G	65.94	74.00	-8.06	3	Horizontal	46	1.21	-
2412MHz	Pass	PK	2.4086G	110.15	Inf	-Inf	3	Horizontal	46	1.21	-
2412MHz	Pass	AV	4.82322G	38.38	54.00	-15.62	3	Vertical	237	1.16	-
2412MHz	Pass	PK	4.82344G	52.71	74.00	-21.29	3	Vertical	237	1.16	-
2412MHz	Pass	AV	4.82304G	35.36	54.00	-18.64	3	Horizontal	9	2.73	-
2412MHz	Pass	PK	4.8241G	48.52	74.00	-25.48	3	Horizontal	9	2.73	-
2417MHz	Pass	AV	2.39G	47.88	54.00	-6.12	3	Vertical	266	1.92	-
2417MHz	Pass	AV	2.4126G	98.31	Inf	-Inf	3	Vertical	266	1.92	-
2417MHz	Pass	PK	2.3898G	60.21	74.00	-13.79	3	Vertical	266	1.92	-
2417MHz	Pass	PK	2.4126G	108.06	Inf	-Inf	3	Vertical	266	1.92	-
2417MHz	Pass	AV	2.3896G	49.57	54.00	-4.43	3	Horizontal	34	1.50	-
2417MHz	Pass	AV	2.4212G	101.48	Inf	-Inf	3	Horizontal	34	1.50	-
2417MHz	Pass	PK	2.3894G	61.94	74.00	-12.06	3	Horizontal	34	1.50	-
2417MHz	Pass	PK	2.4136G	110.81	Inf	-Inf	3	Horizontal	34	1.50	-
2437MHz	Pass	AV	2.3758G	46.49	54.00	-7.51	3	Vertical	265	1.00	-
2437MHz	Pass	AV	2.443G	99.19	Inf	-Inf	3	Vertical	265	1.00	-
2437MHz	Pass	AV	2.4858G	46.68	54.00	-7.32	3	Vertical	265	1.00	-
2437MHz	Pass	PK	2.3438G	59.48	74.00	-14.52	3	Vertical	265	1.00	-
2437MHz	Pass	PK	2.443G	109.11	Inf	-Inf	3	Vertical	265	1.00	-
2437MHz	Pass	PK	2.4898G	59.11	74.00	-14.89	3	Vertical	265	1.00	-
2437MHz	Pass	AV	2.3886G	46.80	54.00	-7.20	3	Horizontal	46	1.41	-
2437MHz	Pass	AV	2.4338G	104.28	Inf	-Inf	3	Horizontal	46	1.41	-
2437MHz	Pass	AV	2.4854G	47.38	54.00	-6.62	3	Horizontal	46	1.41	-
2437MHz	Pass	PK	2.3674G	59.24	74.00	-14.76	3	Horizontal	46	1.41	-
2437MHz	Pass	PK	2.4334G	113.34	Inf	-Inf	3	Horizontal	46	1.41	-
2437MHz	Pass	PK	2.4835G	59.82	74.00	-14.18	3	Horizontal	46	1.41	-
2437MHz	Pass	AV	4.87349G	40.39	54.00	-13.61	3	Vertical	234	1.00	-
2437MHz	Pass	PK	4.87296G	53.78	74.00	-20.22	3	Vertical	234	1.00	-
2437MHz	Pass	AV	4.87198G	37.88	54.00	-16.12	3	Horizontal	6	3.00	-
2437MHz	Pass	PK	4.87207G	50.83	74.00	-23.17	3	Horizontal	6	3.00	-
2457MHz	Pass	AV	2.461G	98.68	Inf	-Inf	3	Vertical	97	1.00	-
2457MHz	Pass	AV	2.4854G	47.79	54.00	-6.21	3	Vertical	97	1.00	-
2457MHz	Pass	PK	2.4606G	108.54	Inf	-Inf	3	Vertical	97	1.00	-
2457MHz	Pass	PK	2.4835G	59.91	74.00	-14.09	3	Vertical	97	1.00	-
2457MHz	Pass	AV	2.4512G	103.13	Inf	-Inf	3	Horizontal	312	1.50	-
2457MHz	Pass	AV	2.4836G	50.90	54.00	-3.10	3	Horizontal	312	1.50	-
2457MHz	Pass	PK	2.4562G	112.18	Inf	-Inf	3	Horizontal	312	1.50	-
2457MHz	Pass	PK	2.486G	63.08	74.00	-10.92	3	Horizontal	312	1.50	-
2462MHz	Pass	AV	2.4678G	94.93	Inf	-Inf	3	Vertical	265	1.50	-
2462MHz	Pass	AV	2.4835G	47.67	54.00	-6.33	3	Vertical	265	1.50	-
2462MHz	Pass	PK	2.4674G	104.79	Inf	-Inf	3	Vertical	265	1.50	-

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

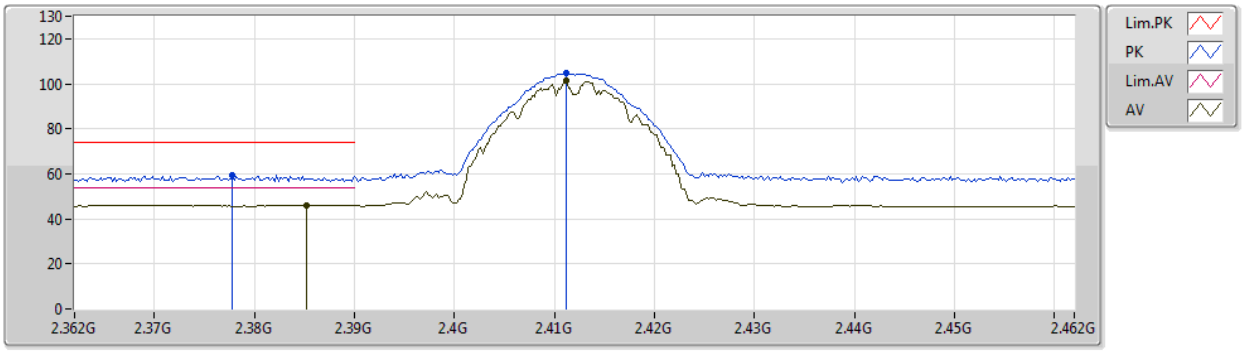
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	2.484G	59.01	74.00	-14.99	3	Vertical	265	1.50	-
2462MHz	Pass	AV	2.4658G	100.55	Inf	-Inf	3	Horizontal	44	1.40	-
2462MHz	Pass	AV	2.4836G	50.15	54.00	-3.85	3	Horizontal	44	1.40	-
2462MHz	Pass	PK	2.4638G	110.23	Inf	-Inf	3	Horizontal	44	1.40	-
2462MHz	Pass	PK	2.4836G	64.21	74.00	-9.79	3	Horizontal	44	1.40	-
2462MHz	Pass	AV	4.92372G	34.98	54.00	-19.02	3	Vertical	249	1.01	-
2462MHz	Pass	PK	4.92354G	47.62	74.00	-26.38	3	Vertical	249	1.01	-
2462MHz	Pass	AV	4.92611G	34.65	54.00	-19.35	3	Horizontal	15	1.50	-
2462MHz	Pass	PK	4.92351G	47.94	74.00	-26.06	3	Horizontal	15	1.50	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	47.77	54.00	-6.23	3	Vertical	269	1.89	-
2412MHz	Pass	AV	2.4062G	93.97	Inf	-Inf	3	Vertical	269	1.89	-
2412MHz	Pass	PK	2.3888G	60.92	74.00	-13.08	3	Vertical	269	1.89	-
2412MHz	Pass	PK	2.4088G	103.33	Inf	-Inf	3	Vertical	269	1.89	-
2412MHz	Pass	AV	2.39G	50.81	54.00	-3.19	3	Horizontal	46	1.01	-
2412MHz	Pass	AV	2.4066G	98.51	Inf	-Inf	3	Horizontal	46	1.01	-
2412MHz	Pass	PK	2.39G	63.85	74.00	-10.15	3	Horizontal	46	1.01	-
2412MHz	Pass	PK	2.4094G	108.09	Inf	-Inf	3	Horizontal	46	1.01	-
2412MHz	Pass	AV	4.82194G	35.89	54.00	-18.11	3	Vertical	237	1.05	-
2412MHz	Pass	PK	4.82247G	49.42	74.00	-24.58	3	Vertical	237	1.05	-
2412MHz	Pass	AV	4.82273G	34.30	54.00	-19.70	3	Horizontal	1	2.95	-
2412MHz	Pass	PK	4.82182G	46.92	74.00	-27.08	3	Horizontal	1	2.95	-
2417MHz	Pass	AV	2.39G	48.27	54.00	-5.73	3	Vertical	227	2.92	-
2417MHz	Pass	AV	2.4182G	99.40	Inf	-Inf	3	Vertical	227	2.92	-
2417MHz	Pass	PK	2.3898G	60.68	74.00	-13.32	3	Vertical	227	2.92	-
2417MHz	Pass	PK	2.4194G	109.03	Inf	-Inf	3	Vertical	227	2.92	-
2417MHz	Pass	AV	2.39G	50.43	54.00	-3.57	3	Horizontal	306	1.00	-
2417MHz	Pass	AV	2.4224G	104.37	Inf	-Inf	3	Horizontal	306	1.00	-
2417MHz	Pass	PK	2.39G	62.61	74.00	-11.39	3	Horizontal	306	1.00	-
2417MHz	Pass	PK	2.4154G	113.45	Inf	-Inf	3	Horizontal	306	1.00	-
2437MHz	Pass	AV	2.3878G	46.54	54.00	-7.46	3	Vertical	263	1.01	-
2437MHz	Pass	AV	2.4402G	99.27	Inf	-Inf	3	Vertical	263	1.01	-
2437MHz	Pass	AV	2.485G	46.83	54.00	-7.17	3	Vertical	263	1.01	-
2437MHz	Pass	PK	2.3866G	59.46	74.00	-14.54	3	Vertical	263	1.01	-
2437MHz	Pass	PK	2.4402G	108.22	Inf	-Inf	3	Vertical	263	1.01	-
2437MHz	Pass	PK	2.4878G	58.85	74.00	-15.15	3	Vertical	263	1.01	-
2437MHz	Pass	AV	2.3894G	46.93	54.00	-7.07	3	Horizontal	43	1.43	-
2437MHz	Pass	AV	2.4342G	103.96	Inf	-Inf	3	Horizontal	43	1.43	-
2437MHz	Pass	AV	2.4835G	47.49	54.00	-6.51	3	Horizontal	43	1.43	-
2437MHz	Pass	PK	2.3854G	60.32	74.00	-13.68	3	Horizontal	43	1.43	-
2437MHz	Pass	PK	2.4338G	113.03	Inf	-Inf	3	Horizontal	43	1.43	-
2437MHz	Pass	PK	2.491G	59.74	74.00	-14.26	3	Horizontal	43	1.43	-
2437MHz	Pass	AV	4.87162G	40.51	54.00	-13.49	3	Vertical	234	1.00	-
2437MHz	Pass	PK	4.87305G	55.10	74.00	-18.90	3	Vertical	234	1.00	-
2437MHz	Pass	AV	4.87212G	37.37	54.00	-16.63	3	Horizontal	0	3.00	-
2437MHz	Pass	PK	4.87237G	50.75	74.00	-23.25	3	Horizontal	0	3.00	-
2457MHz	Pass	AV	2.4554G	97.38	Inf	-Inf	3	Vertical	360	1.12	-
2457MHz	Pass	AV	2.484G	47.65	54.00	-6.35	3	Vertical	360	1.12	-
2457MHz	Pass	PK	2.4536G	106.92	Inf	-Inf	3	Vertical	360	1.12	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2457MHz	Pass	PK	2.4848G	59.56	74.00	-14.44	3	Vertical	360	1.12	-
2457MHz	Pass	AV	2.4624G	103.99	Inf	-Inf	3	Horizontal	305	1.00	-
2457MHz	Pass	AV	2.4835G	50.77	54.00	-3.23	3	Horizontal	305	1.00	-
2457MHz	Pass	PK	2.462G	113.69	Inf	-Inf	3	Horizontal	305	1.00	-
2457MHz	Pass	PK	2.4846G	64.03	74.00	-9.97	3	Horizontal	305	1.00	-
2462MHz	Pass	AV	2.4656G	94.76	Inf	-Inf	3	Vertical	266	2.07	-
2462MHz	Pass	AV	2.4835G	47.35	54.00	-6.65	3	Vertical	266	2.07	-
2462MHz	Pass	PK	2.466G	104.53	Inf	-Inf	3	Vertical	266	2.07	-
2462MHz	Pass	PK	2.5G	59.89	74.00	-14.11	3	Vertical	266	2.07	-
2462MHz	Pass	AV	2.4668G	99.95	Inf	-Inf	3	Horizontal	44	1.50	-
2462MHz	Pass	AV	2.4836G	50.79	54.00	-3.21	3	Horizontal	44	1.50	-
2462MHz	Pass	PK	2.4674G	110.02	Inf	-Inf	3	Horizontal	44	1.50	-
2462MHz	Pass	PK	2.4835G	63.05	74.00	-10.95	3	Horizontal	44	1.50	-
2462MHz	Pass	AV	4.92432G	34.46	54.00	-19.54	3	Vertical	232	1.00	-
2462MHz	Pass	PK	4.92395G	47.73	74.00	-26.27	3	Vertical	232	1.00	-
2462MHz	Pass	AV	4.92167G	35.06	54.00	-18.94	3	Horizontal	11	1.03	-
2462MHz	Pass	PK	4.92158G	47.70	74.00	-26.30	3	Horizontal	11	1.03	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

16/08/2019

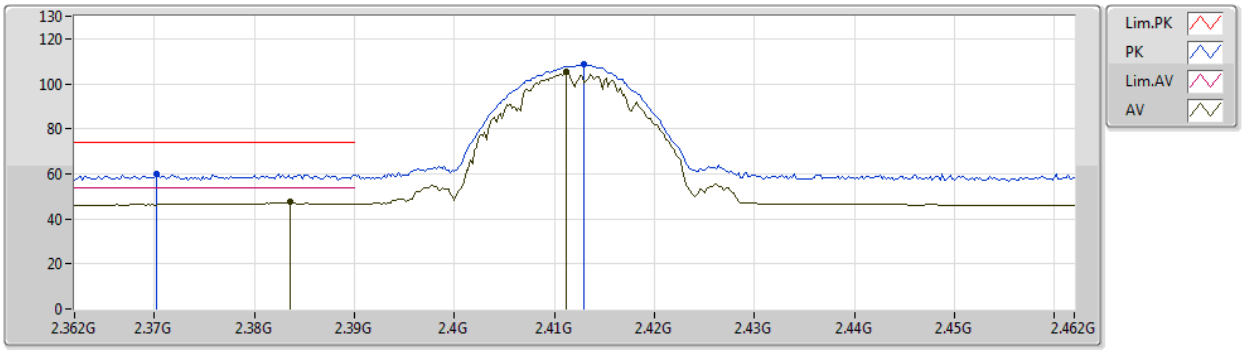


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3852G	45.96	54.00	-8.04	33.77	3	Vertical	299	1.50	-	12.19	27.66	6.11	-
AV	2.4112G	101.60	Inf	-Inf	33.71	3	Vertical	299	1.50	-	67.89	27.59	6.12	-
PK	2.3778G	59.32	74.00	-14.68	33.80	3	Vertical	299	1.50	-	25.52	27.69	6.11	-
PK	2.4112G	104.71	Inf	-Inf	33.71	3	Vertical	299	1.50	-	71.00	27.59	6.12	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

16/08/2019

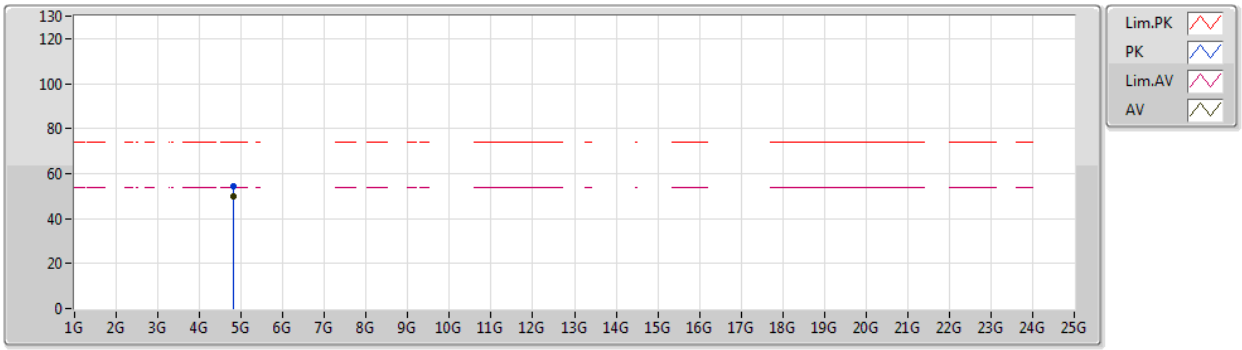


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3836G	47.48	54.00	-6.52	33.78	3	Horizontal	43	1.24	-	13.70	27.67	6.11	-
AV	2.4112G	105.23	Inf	-Inf	33.71	3	Horizontal	43	1.24	-	71.52	27.59	6.12	-
PK	2.3702G	59.96	74.00	-14.04	33.84	3	Horizontal	43	1.24	-	26.12	27.72	6.12	-
PK	2.413G	108.57	Inf	-Inf	33.71	3	Horizontal	43	1.24	-	74.86	27.59	6.12	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

16/08/2019

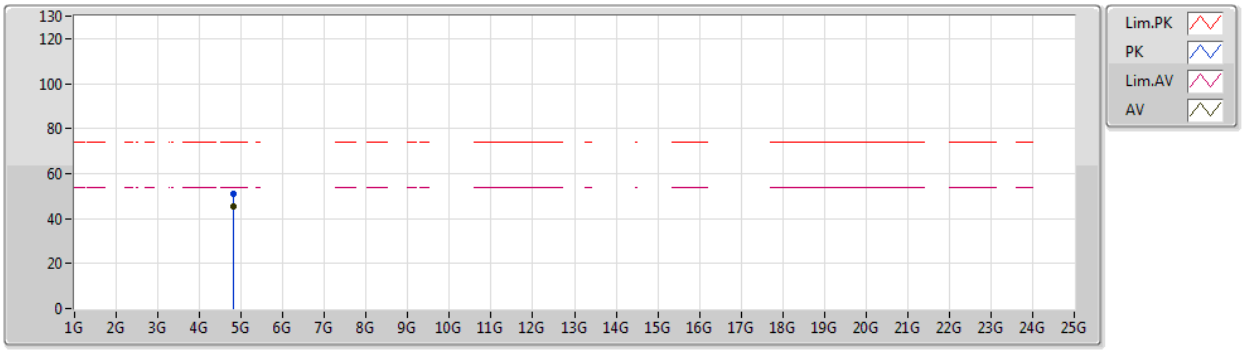


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82402G	49.71	54.00	-4.29	5.73	3	Vertical	237	1.15	-	43.98	31.10	8.92	34.29
PK	4.82405G	54.12	74.00	-19.88	5.73	3	Vertical	237	1.15	-	48.39	31.10	8.92	34.29

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

16/08/2019

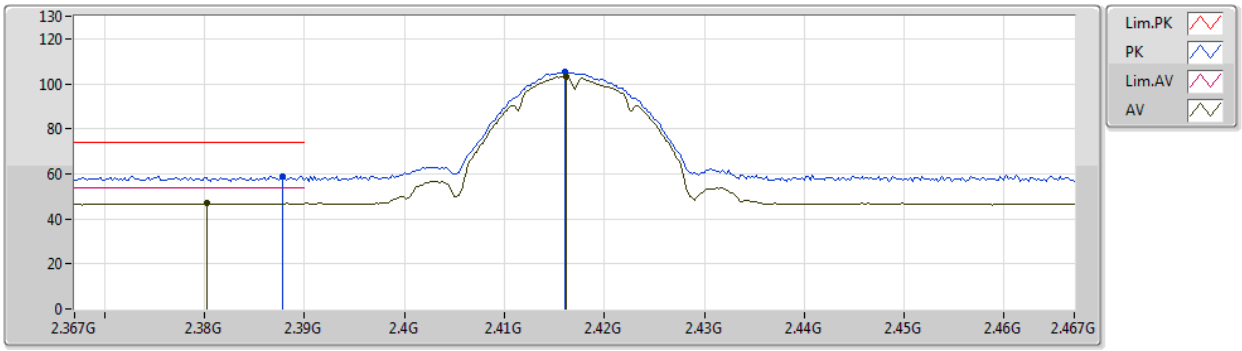


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82394G	45.21	54.00	-8.79	5.73	3	Horizontal	14	2.94	-	39.48	31.10	8.92	34.29
PK	4.82411G	50.84	74.00	-23.16	5.73	3	Horizontal	14	2.94	-	45.11	31.10	8.92	34.29

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

16/08/2019

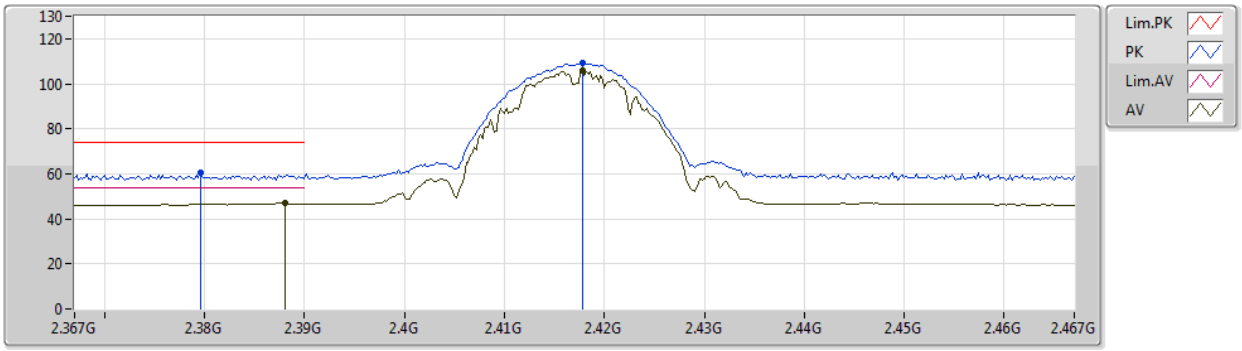


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3802G	46.86	54.00	-7.14	33.79	3	Vertical	266	1.58	-	13.07	27.68	6.11	-
AV	2.4162G	103.31	Inf	-Inf	33.70	3	Vertical	266	1.58	-	69.61	27.58	6.12	-
PK	2.3878G	59.02	74.00	-14.98	33.76	3	Vertical	266	1.58	-	25.26	27.65	6.11	-
PK	2.416G	105.43	Inf	-Inf	33.70	3	Vertical	266	1.58	-	71.73	27.58	6.12	-

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

16/08/2019

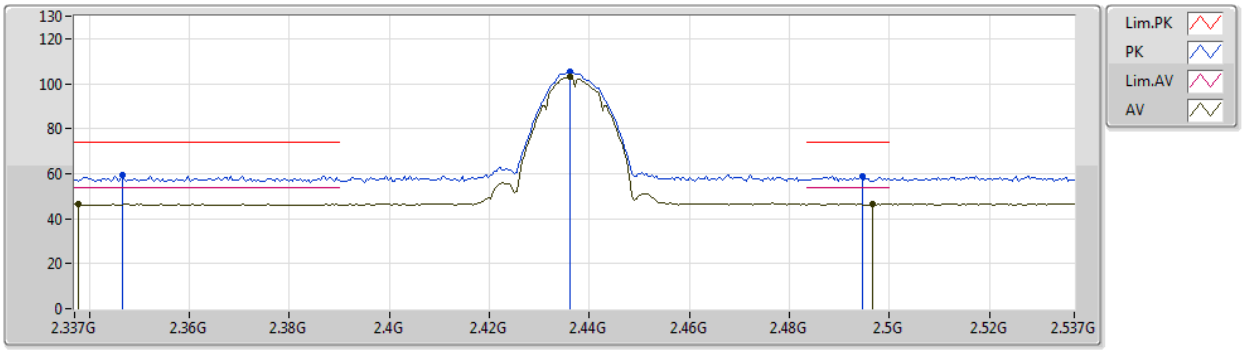


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.388G	47.00	54.00	-7.00	33.76	3	Horizontal	39	1.00	-	13.24	27.65	6.11	-
AV	2.4178G	106.15	Inf	-Inf	33.70	3	Horizontal	39	1.00	-	72.45	27.58	6.12	-
PK	2.3796G	60.40	74.00	-13.60	33.79	3	Horizontal	39	1.00	-	26.61	27.68	6.11	-
PK	2.4178G	109.39	Inf	-Inf	33.70	3	Horizontal	39	1.00	-	75.69	27.58	6.12	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

16/08/2019

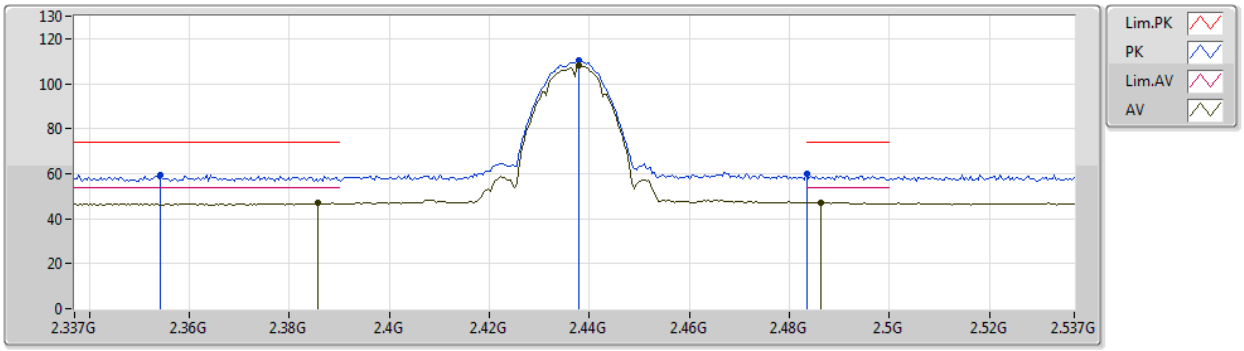


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3378G	46.48	54.00	-7.52	33.97	3	Vertical	269	1.50	-	12.51	27.85	6.12	-
AV	2.4362G	103.16	Inf	-Inf	33.69	3	Vertical	269	1.50	-	69.47	27.56	6.13	-
AV	2.4966G	46.57	54.00	-7.43	33.65	3	Vertical	269	1.50	-	12.92	27.50	6.15	-
PK	2.3466G	59.25	74.00	-14.75	33.93	3	Vertical	269	1.50	-	25.32	27.81	6.12	-
PK	2.4362G	105.36	Inf	-Inf	33.69	3	Vertical	269	1.50	-	71.67	27.56	6.13	-
PK	2.4946G	58.84	74.00	-15.16	33.66	3	Vertical	269	1.50	-	25.18	27.51	6.15	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

16/08/2019

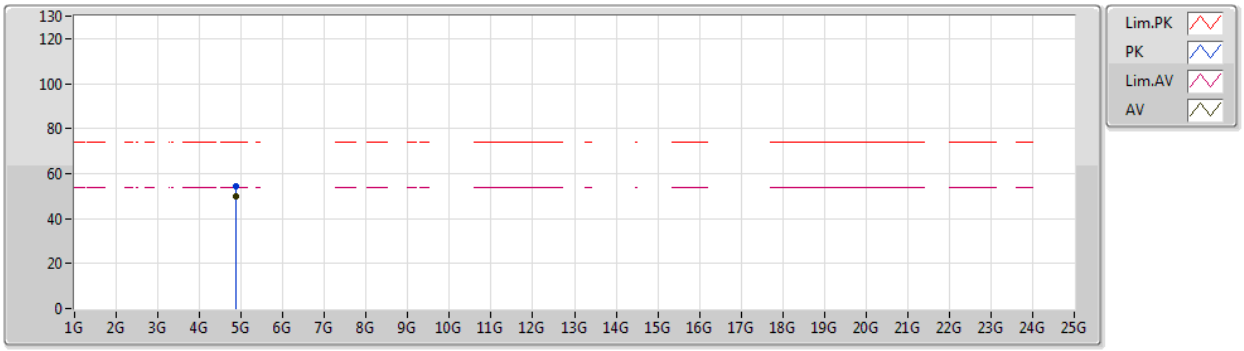


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3858G	46.92	54.00	-7.08	33.77	3	Horizontal	47	1.41	-	13.15	27.66	6.11	-
AV	2.4378G	107.90	Inf	-Inf	33.69	3	Horizontal	47	1.41	-	74.21	27.56	6.13	-
AV	2.4862G	47.18	54.00	-6.82	33.66	3	Horizontal	47	1.41	-	13.52	27.51	6.15	-
PK	2.3542G	59.36	74.00	-14.64	33.90	3	Horizontal	47	1.41	-	25.46	27.78	6.12	-
PK	2.4378G	110.26	Inf	-Inf	33.69	3	Horizontal	47	1.41	-	76.57	27.56	6.13	-
PK	2.4835G	59.73	74.00	-14.27	33.67	3	Horizontal	47	1.41	-	26.06	27.52	6.15	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

16/08/2019

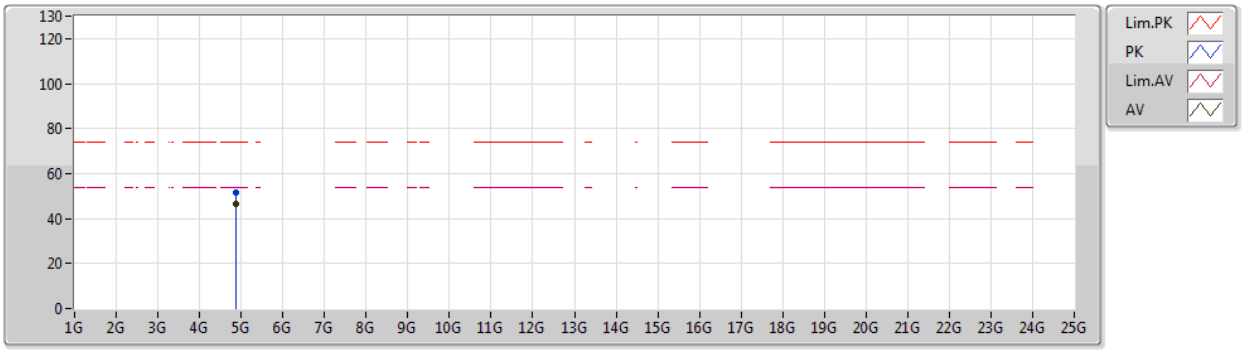


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.874G	49.83	54.00	-4.17	5.78	3	Vertical	236	1.00	-	44.05	31.10	8.96	34.28
PK	4.87396G	54.49	74.00	-19.51	5.78	3	Vertical	236	1.00	-	48.71	31.10	8.96	34.28

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

16/08/2019

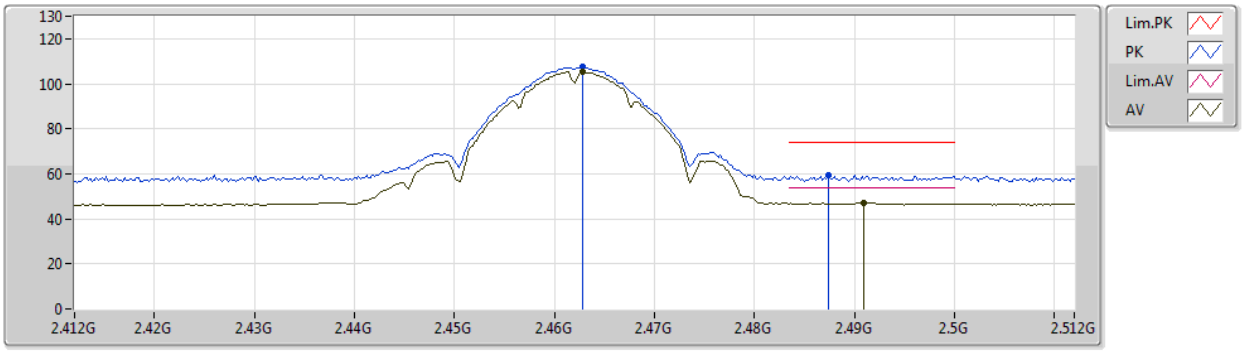


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87399G	46.73	54.00	-7.27	5.78	3	Horizontal	13	1.08	-	40.95	31.10	8.96	34.28
PK	4.87401G	51.78	74.00	-22.22	5.78	3	Horizontal	13	1.08	-	46.00	31.10	8.96	34.28

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

16/08/2019

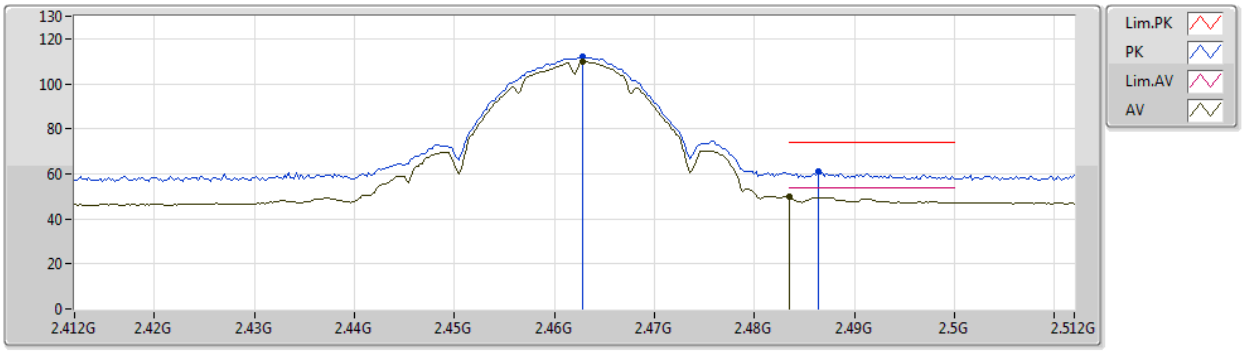


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4628G	105.36	Inf	-Inf	33.68	3	Vertical	304	1.50	-	71.68	27.54	6.14	-
AV	2.491G	46.95	54.00	-7.05	33.66	3	Vertical	304	1.50	-	13.29	27.51	6.15	-
PK	2.4628G	107.48	Inf	-Inf	33.68	3	Vertical	304	1.50	-	73.80	27.54	6.14	-
PK	2.4874G	59.30	74.00	-14.70	33.66	3	Vertical	304	1.50	-	25.64	27.51	6.15	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

16/08/2019

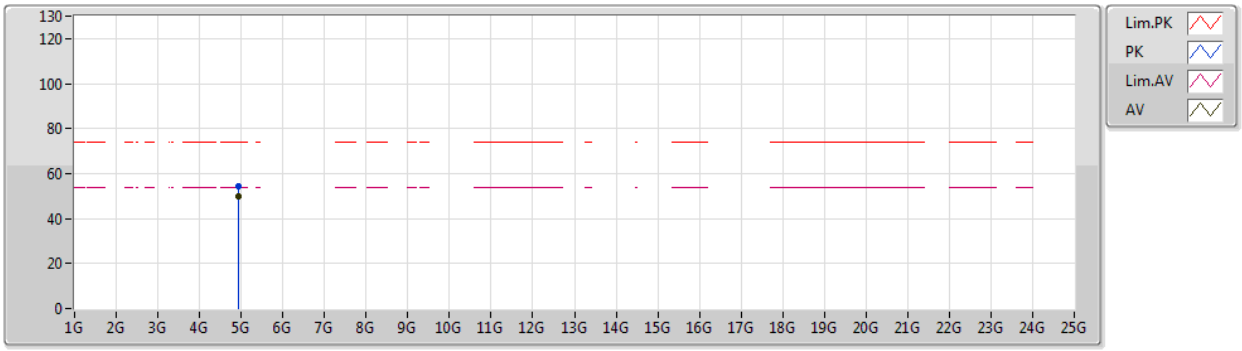


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4628G	109.75	Inf	-Inf	33.68	3	Horizontal	42	2.76	-	76.07	27.54	6.14	-
AV	2.4835G	49.88	54.00	-4.12	33.67	3	Horizontal	42	2.76	-	16.21	27.52	6.15	-
PK	2.4628G	112.01	Inf	-Inf	33.68	3	Horizontal	42	2.76	-	78.33	27.54	6.14	-
PK	2.4864G	61.08	74.00	-12.92	33.66	3	Horizontal	42	2.76	-	27.42	27.51	6.15	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

16/08/2019

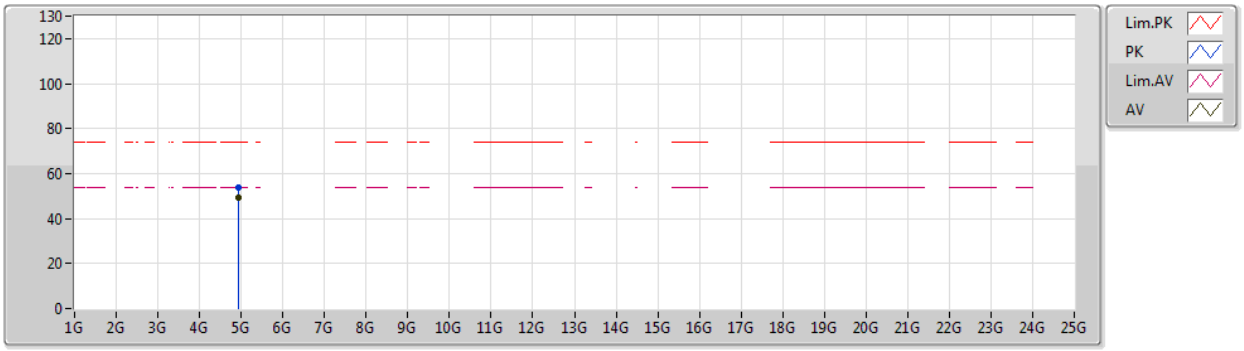


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92392G	49.76	54.00	-4.24	5.98	3	Vertical	241	1.00	-	43.78	31.20	9.00	34.22
PK	4.92395G	54.33	74.00	-19.67	5.98	3	Vertical	241	1.00	-	48.35	31.20	9.00	34.22

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

16/08/2019

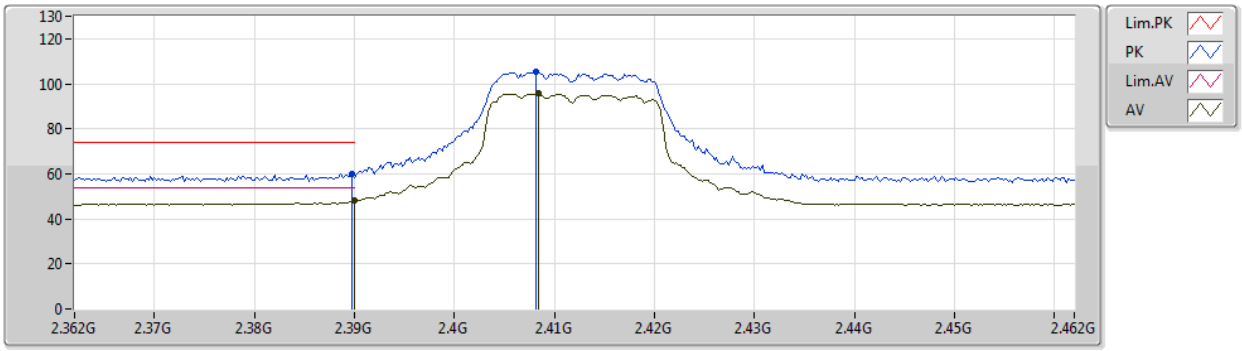


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92398G	49.35	54.00	-4.65	5.98	3	Horizontal	16	1.09	-	43.37	31.20	9.00	34.22
PK	4.924G	53.59	74.00	-20.41	5.98	3	Horizontal	16	1.09	-	47.61	31.20	9.00	34.22

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

16/08/2019

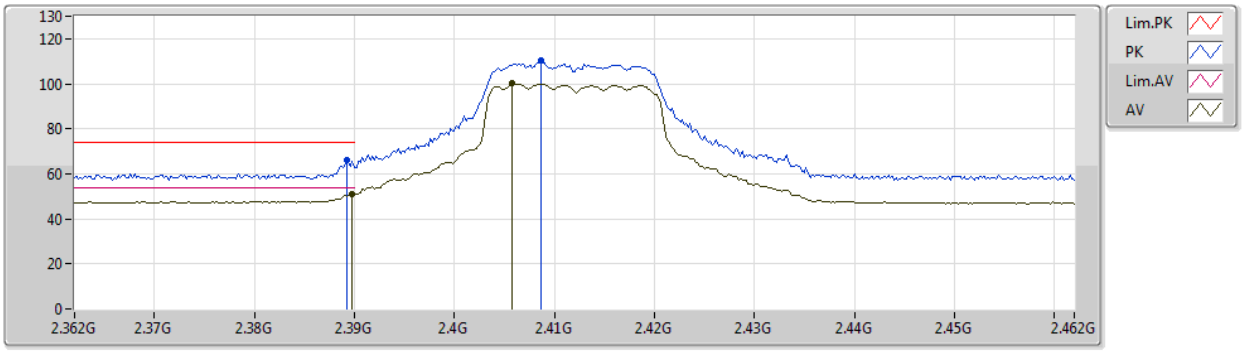


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	47.97	54.00	-6.03	33.75	3	Vertical	270	1.90	-	14.22	27.64	6.11	-
AV	2.4084G	95.59	Inf	-Inf	33.71	3	Vertical	270	1.90	-	61.88	27.59	6.12	-
PK	2.3898G	59.81	74.00	-14.19	33.75	3	Vertical	270	1.90	-	26.06	27.64	6.11	-
PK	2.4082G	105.08	Inf	-Inf	33.71	3	Vertical	270	1.90	-	71.37	27.59	6.12	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

16/08/2019

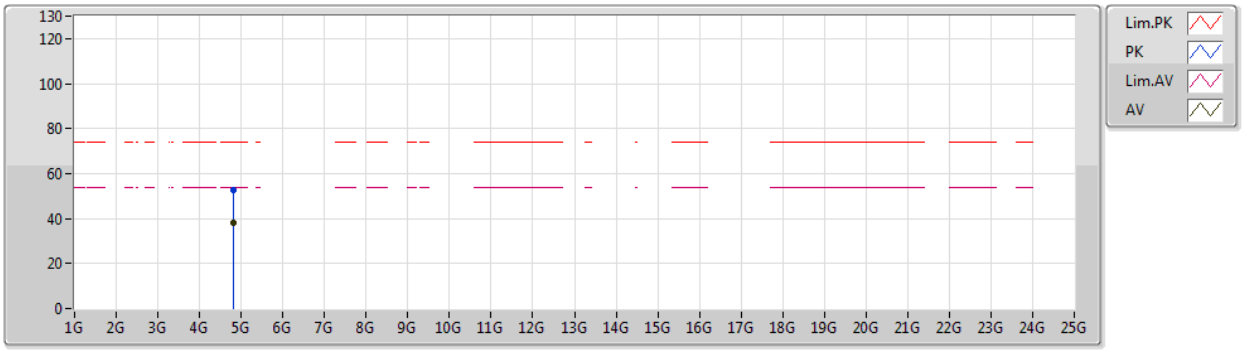


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	50.92	54.00	-3.08	33.75	3	Horizontal	46	1.21	-	17.17	27.64	6.11	-
AV	2.4058G	100.03	Inf	-Inf	33.71	3	Horizontal	46	1.21	-	66.32	27.59	6.12	-
PK	2.3892G	65.94	74.00	-8.06	33.75	3	Horizontal	46	1.21	-	32.19	27.64	6.11	-
PK	2.4086G	110.15	Inf	-Inf	33.71	3	Horizontal	46	1.21	-	76.44	27.59	6.12	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

16/08/2019

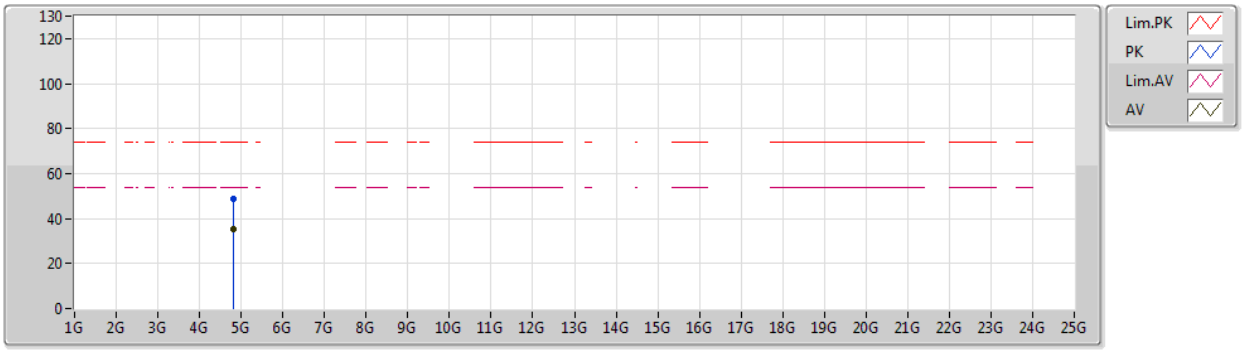


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82322G	38.38	54.00	-15.62	5.73	3	Vertical	237	1.16	-	32.65	31.10	8.92	34.29
PK	4.82344G	52.71	74.00	-21.29	5.73	3	Vertical	237	1.16	-	46.98	31.10	8.92	34.29

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

16/08/2019

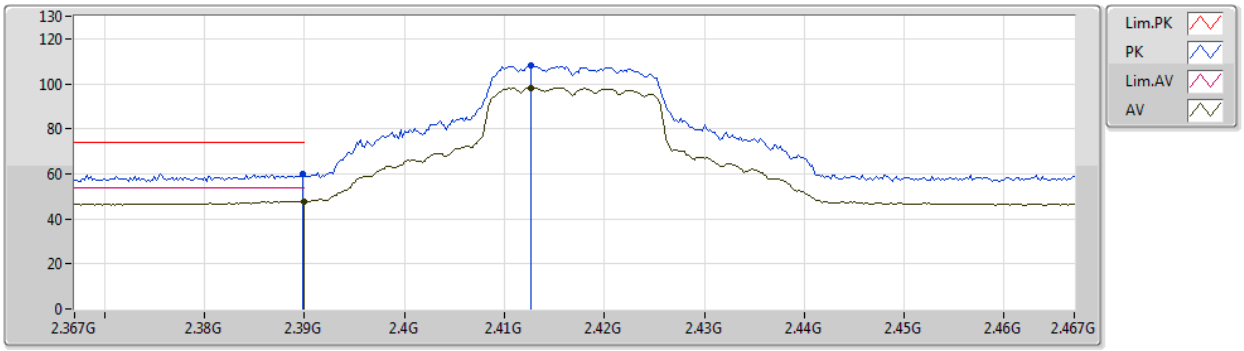


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82304G	35.36	54.00	-18.64	5.73	3	Horizontal	9	2.73	-	29.63	31.10	8.92	34.29
PK	4.8241G	48.52	74.00	-25.48	5.73	3	Horizontal	9	2.73	-	42.79	31.10	8.92	34.29

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

16/08/2019

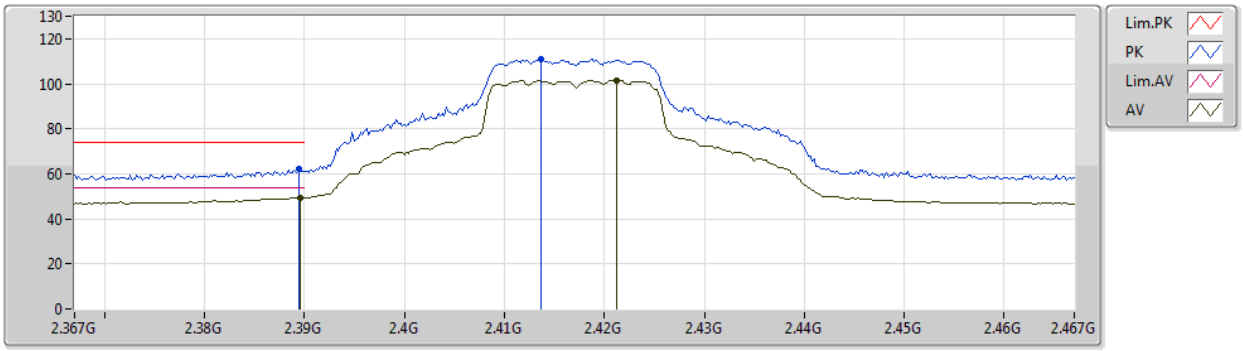


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	47.88	54.00	-6.12	33.75	3	Vertical	266	1.92	-	14.13	27.64	6.11	-
AV	2.4126G	98.31	Inf	-Inf	33.71	3	Vertical	266	1.92	-	64.60	27.59	6.12	-
PK	2.3898G	60.21	74.00	-13.79	33.75	3	Vertical	266	1.92	-	26.46	27.64	6.11	-
PK	2.4126G	108.06	Inf	-Inf	33.71	3	Vertical	266	1.92	-	74.35	27.59	6.12	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

16/08/2019

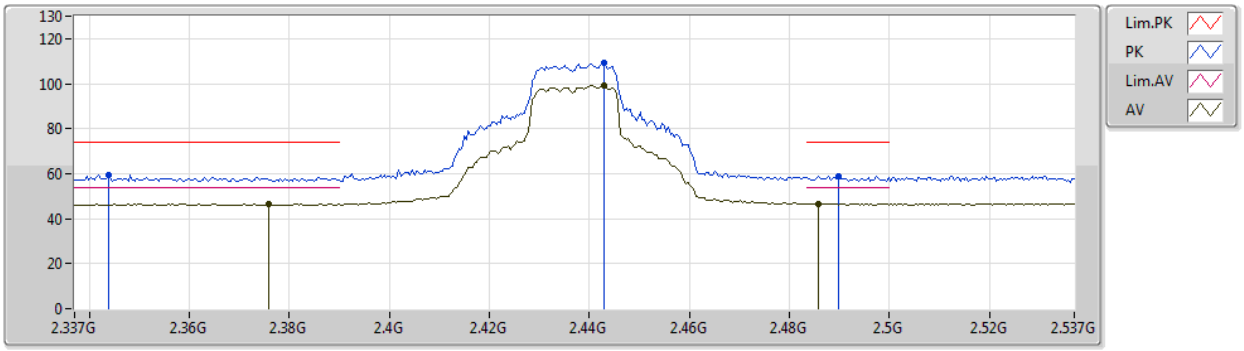


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3896G	49.57	54.00	-4.43	33.75	3	Horizontal	34	1.50	-	15.82	27.64	6.11	-
AV	2.4212G	101.48	Inf	-Inf	33.70	3	Horizontal	34	1.50	-	67.78	27.58	6.12	-
PK	2.3894G	61.94	74.00	-12.06	33.75	3	Horizontal	34	1.50	-	28.19	27.64	6.11	-
PK	2.4136G	110.81	Inf	-Inf	33.71	3	Horizontal	34	1.50	-	77.10	27.59	6.12	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

16/08/2019

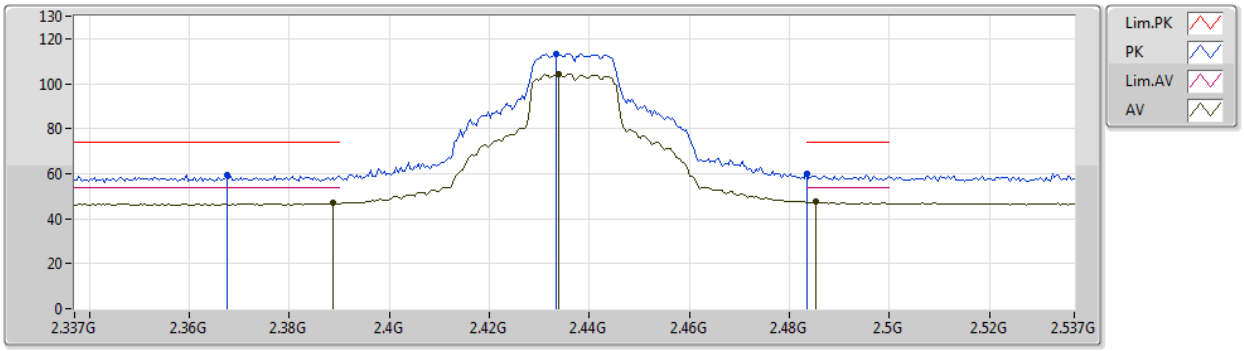


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3758G	46.49	54.00	-7.51	33.82	3	Vertical	265	1.00	-	12.67	27.70	6.12	-
AV	2.443G	99.19	Inf	-Inf	33.69	3	Vertical	265	1.00	-	65.50	27.56	6.13	-
AV	2.4858G	46.68	54.00	-7.32	33.66	3	Vertical	265	1.00	-	13.02	27.51	6.15	-
PK	2.3438G	59.48	74.00	-14.52	33.94	3	Vertical	265	1.00	-	25.54	27.82	6.12	-
PK	2.443G	109.11	Inf	-Inf	33.69	3	Vertical	265	1.00	-	75.42	27.56	6.13	-
PK	2.4898G	59.11	74.00	-14.89	33.66	3	Vertical	265	1.00	-	25.45	27.51	6.15	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

16/08/2019

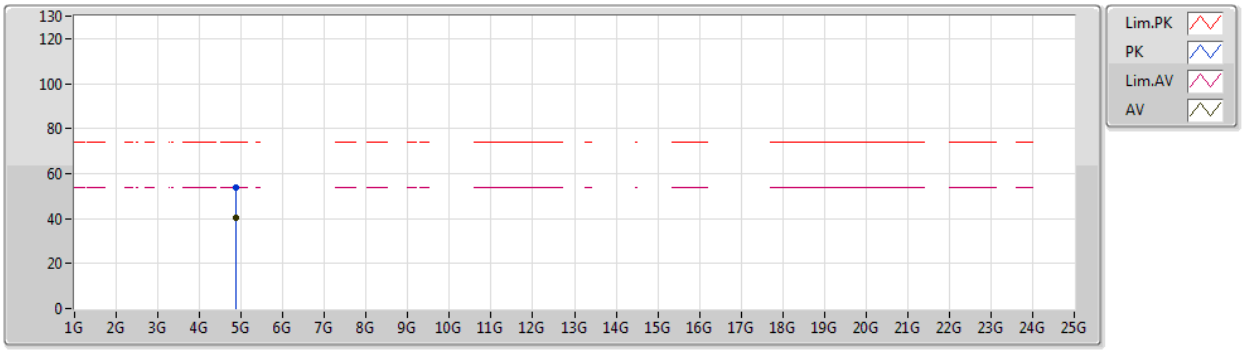


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3886G	46.80	54.00	-7.20	33.76	3	Horizontal	46	1.41	-	13.04	27.65	6.11	-
AV	2.4338G	104.28	Inf	-Inf	33.70	3	Horizontal	46	1.41	-	70.58	27.57	6.13	-
AV	2.4854G	47.38	54.00	-6.62	33.66	3	Horizontal	46	1.41	-	13.72	27.51	6.15	-
PK	2.3674G	59.24	74.00	-14.76	33.85	3	Horizontal	46	1.41	-	25.39	27.73	6.12	-
PK	2.4334G	113.34	Inf	-Inf	33.70	3	Horizontal	46	1.41	-	79.64	27.57	6.13	-
PK	2.4835G	59.82	74.00	-14.18	33.67	3	Horizontal	46	1.41	-	26.15	27.52	6.15	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

16/08/2019

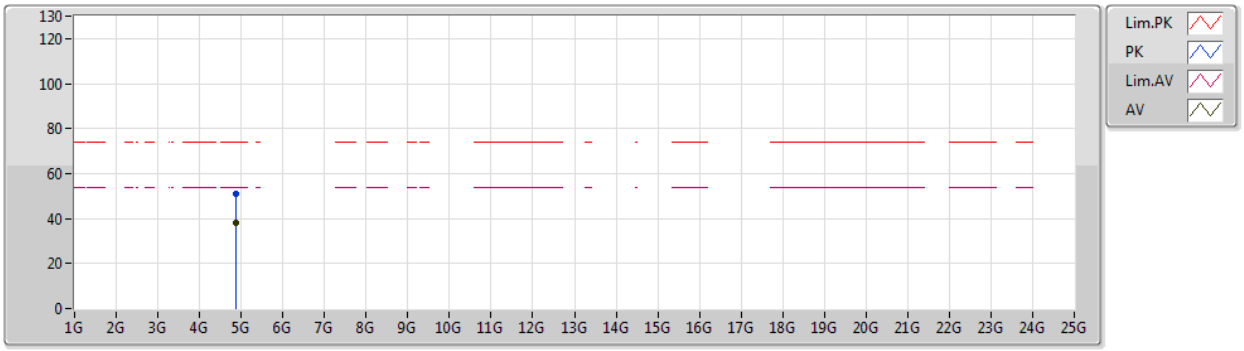


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87349G	40.39	54.00	-13.61	5.78	3	Vertical	234	1.00	-	34.61	31.10	8.96	34.28
PK	4.87296G	53.78	74.00	-20.22	5.78	3	Vertical	234	1.00	-	48.00	31.10	8.96	34.28

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

16/08/2019

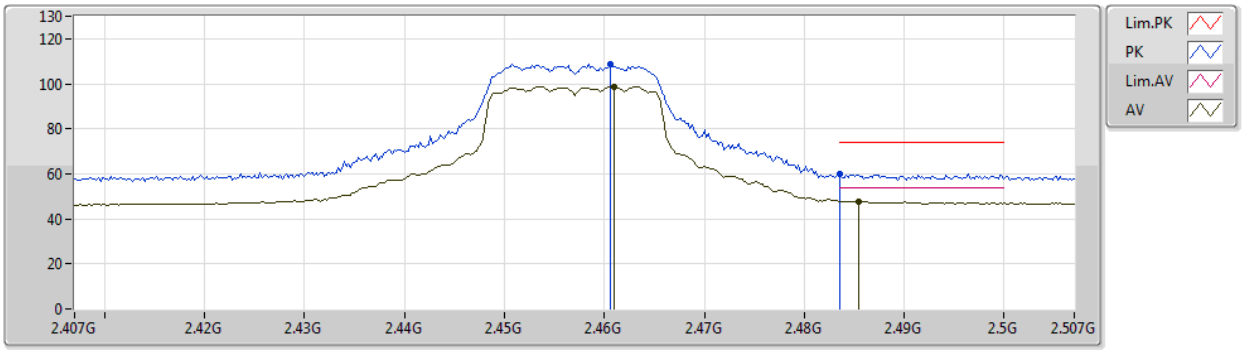


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87198G	37.88	54.00	-16.12	5.77	3	Horizontal	6	3.00	-	32.11	31.10	8.95	34.28
PK	4.87207G	50.83	74.00	-23.17	5.78	3	Horizontal	6	3.00	-	45.05	31.10	8.96	34.28

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

22/08/2019

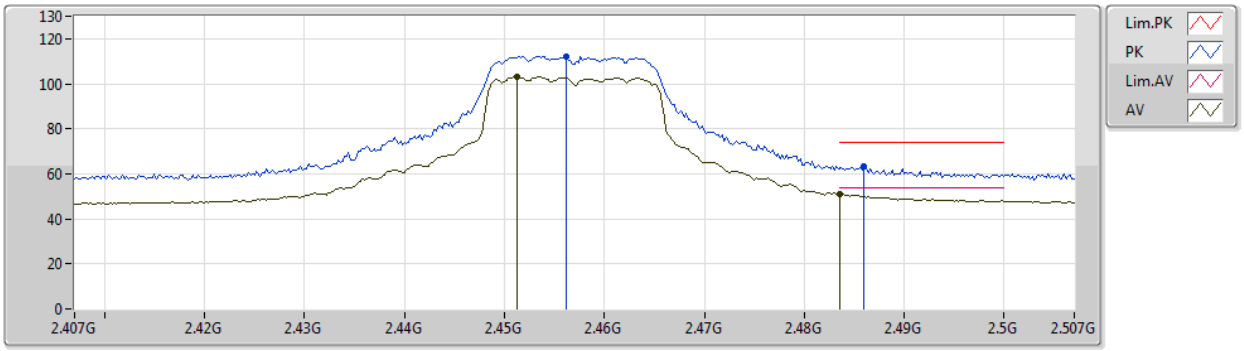


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.461G	98.68	Inf	-Inf	33.68	3	Vertical	97	1.00	-	65.00	27.54	6.14	-
AV	2.4854G	47.79	54.00	-6.21	33.66	3	Vertical	97	1.00	-	14.13	27.51	6.15	-
PK	2.4606G	108.54	Inf	-Inf	33.68	3	Vertical	97	1.00	-	74.86	27.54	6.14	-
PK	2.4835G	59.91	74.00	-14.09	33.67	3	Vertical	97	1.00	-	26.24	27.52	6.15	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

22/08/2019

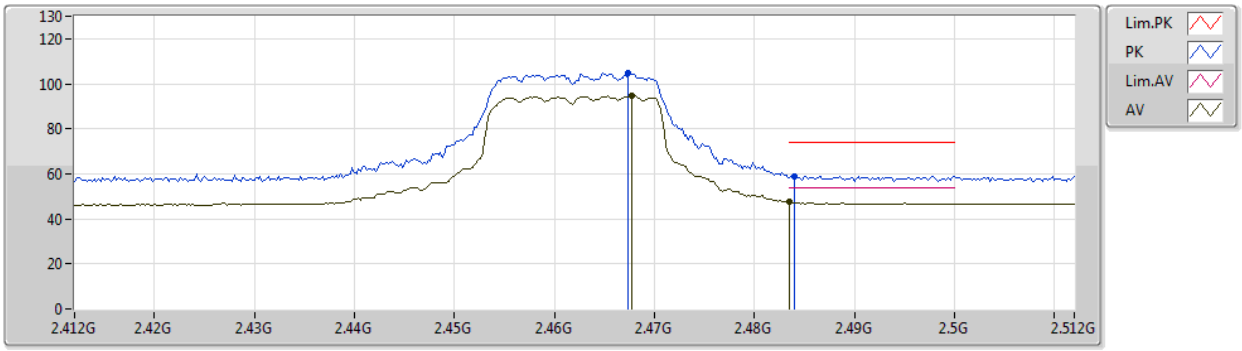


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4512G	103.13	Inf	-Inf	33.68	3	Horizontal	312	1.50	-	69.45	27.55	6.13	-
AV	2.4836G	50.90	54.00	-3.10	33.67	3	Horizontal	312	1.50	-	17.23	27.52	6.15	-
PK	2.4562G	112.18	Inf	-Inf	33.68	3	Horizontal	312	1.50	-	78.50	27.54	6.14	-
PK	2.486G	63.08	74.00	-10.92	33.66	3	Horizontal	312	1.50	-	29.42	27.51	6.15	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

16/08/2019

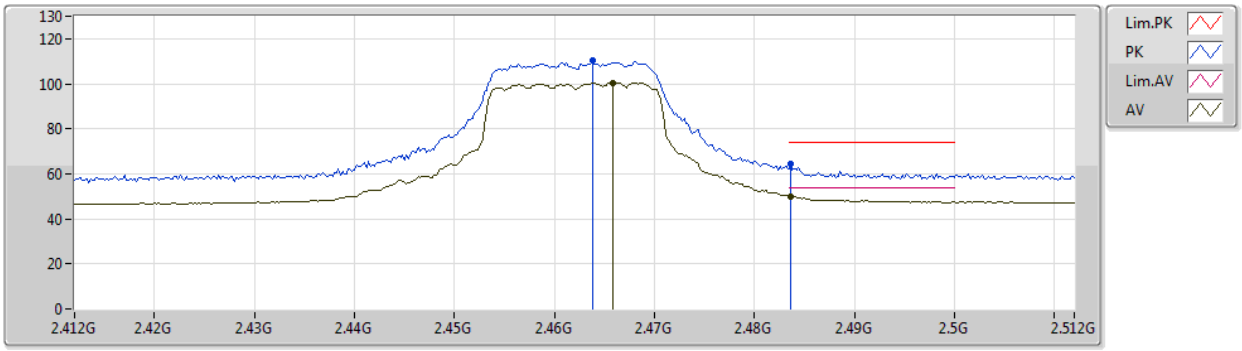


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4678G	94.93	Inf	-Inf	33.67	3	Vertical	265	1.50	-	61.26	27.53	6.14	-
AV	2.4835G	47.67	54.00	-6.33	33.67	3	Vertical	265	1.50	-	14.00	27.52	6.15	-
PK	2.4674G	104.79	Inf	-Inf	33.67	3	Vertical	265	1.50	-	71.12	27.53	6.14	-
PK	2.484G	59.01	74.00	-14.99	33.67	3	Vertical	265	1.50	-	25.34	27.52	6.15	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

16/08/2019

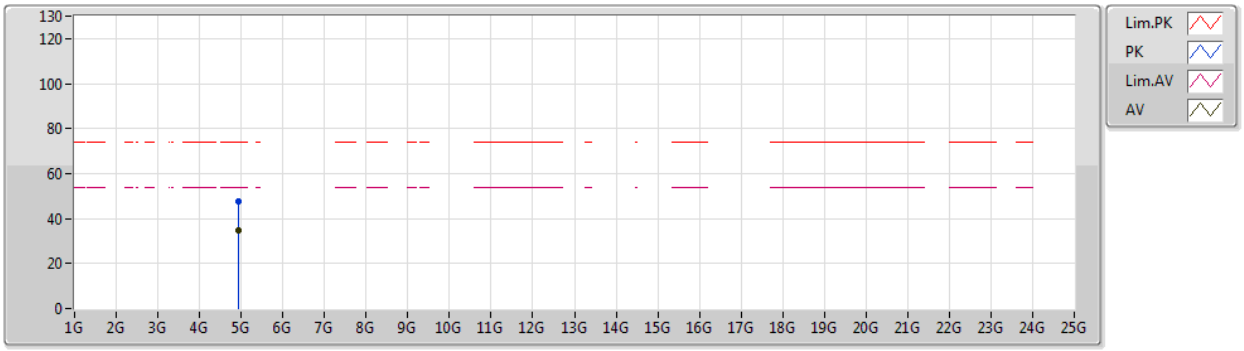


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4658G	100.55	Inf	-Inf	33.67	3	Horizontal	44	1.40	-	66.88	27.53	6.14	-
AV	2.4836G	50.15	54.00	-3.85	33.67	3	Horizontal	44	1.40	-	16.48	27.52	6.15	-
PK	2.4638G	110.23	Inf	-Inf	33.68	3	Horizontal	44	1.40	-	76.55	27.54	6.14	-
PK	2.4836G	64.21	74.00	-9.79	33.67	3	Horizontal	44	1.40	-	30.54	27.52	6.15	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

16/08/2019

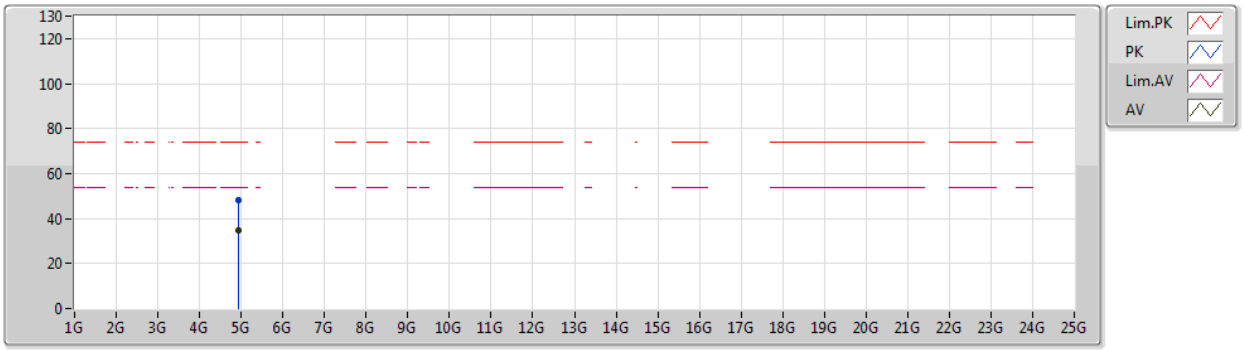


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92372G	34.98	54.00	-19.02	5.97	3	Vertical	249	1.01	-	29.01	31.19	9.00	34.22
PK	4.92354G	47.62	74.00	-26.38	5.96	3	Vertical	249	1.01	-	41.66	31.19	9.00	34.23

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

16/08/2019

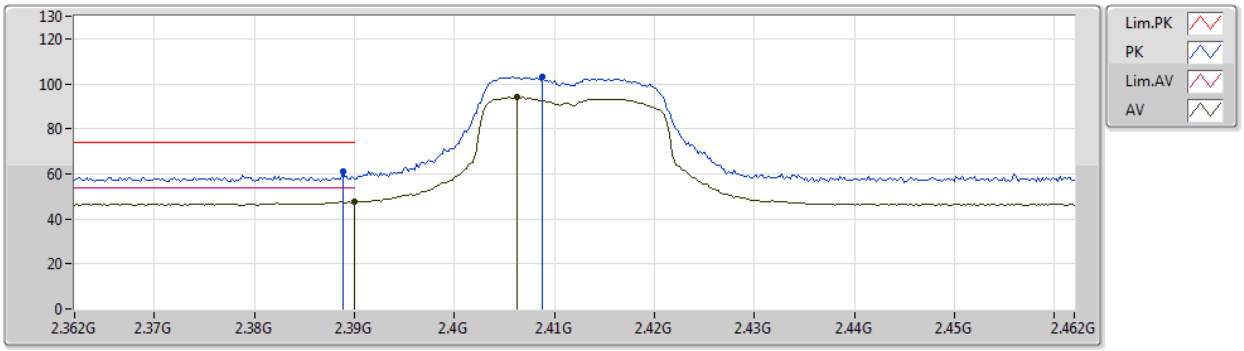


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92611G	34.65	54.00	-19.35	5.98	3	Horizontal	15	1.50	-	28.67	31.20	9.00	34.22
PK	4.92351G	47.94	74.00	-26.06	5.96	3	Horizontal	15	1.50	-	41.98	31.19	9.00	34.23

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

16/08/2019

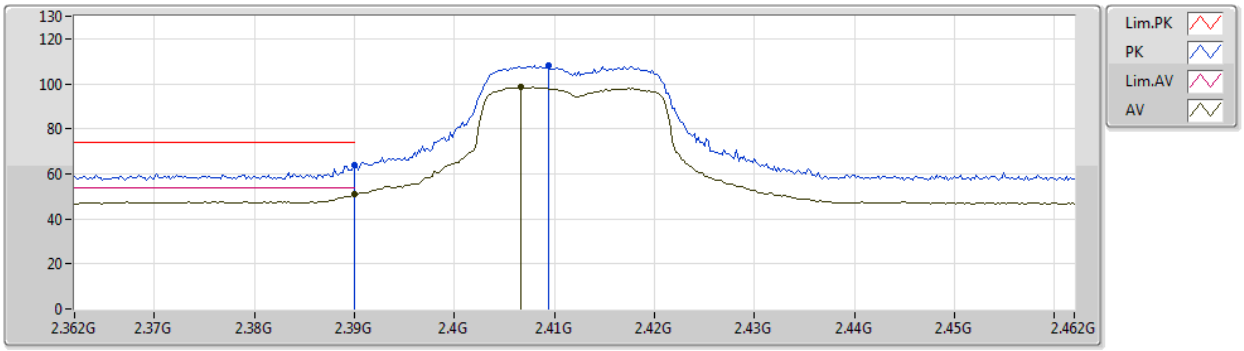


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	47.77	54.00	-6.23	33.75	3	Vertical	269	1.89	-	14.02	27.64	6.11	-
AV	2.4062G	93.97	Inf	-Inf	33.71	3	Vertical	269	1.89	-	60.26	27.59	6.12	-
PK	2.3888G	60.92	74.00	-13.08	33.75	3	Vertical	269	1.89	-	27.17	27.64	6.11	-
PK	2.4088G	103.33	Inf	-Inf	33.71	3	Vertical	269	1.89	-	69.62	27.59	6.12	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

16/08/2019

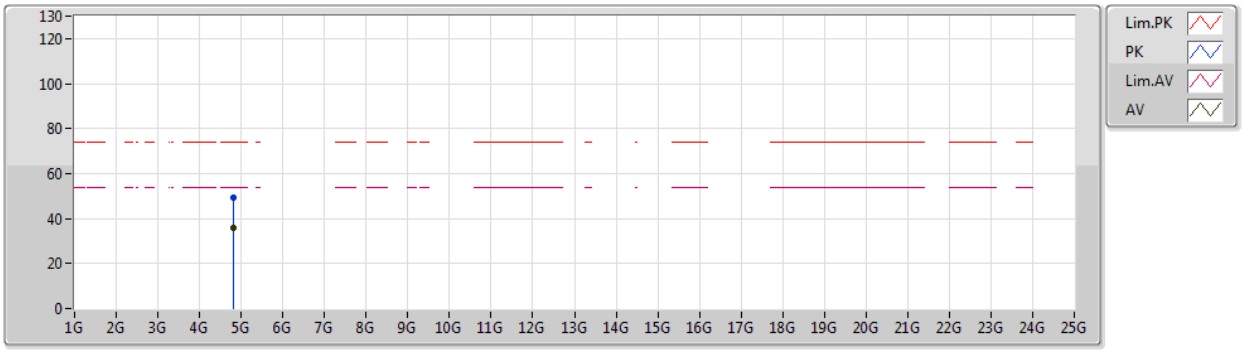


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	50.81	54.00	-3.19	33.75	3	Horizontal	46	1.01	-	17.06	27.64	6.11	-
AV	2.4066G	98.51	Inf	-Inf	33.71	3	Horizontal	46	1.01	-	64.80	27.59	6.12	-
PK	2.39G	63.85	74.00	-10.15	33.75	3	Horizontal	46	1.01	-	30.10	27.64	6.11	-
PK	2.4094G	108.09	Inf	-Inf	33.71	3	Horizontal	46	1.01	-	74.38	27.59	6.12	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

16/08/2019

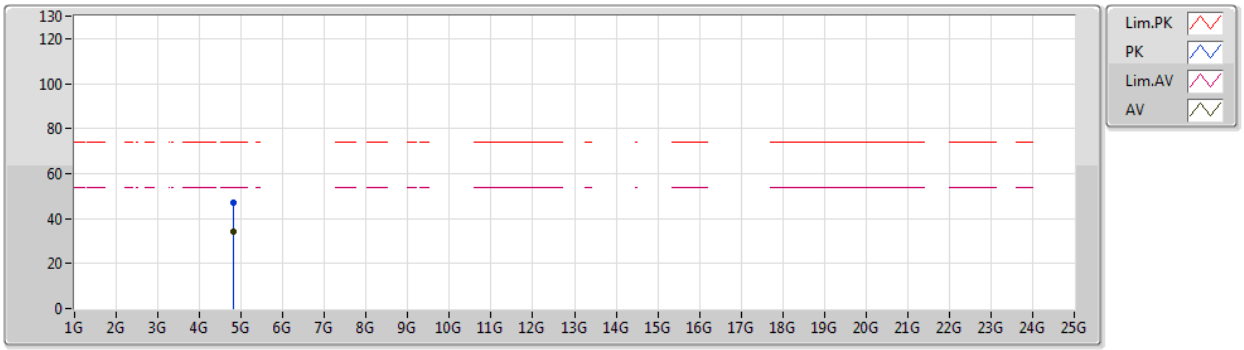


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82194G	35.89	54.00	-18.11	5.72	3	Vertical	237	1.05	-	30.17	31.10	8.91	34.29
PK	4.82247G	49.42	74.00	-24.58	5.73	3	Vertical	237	1.05	-	43.69	31.10	8.92	34.29

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

16/08/2019

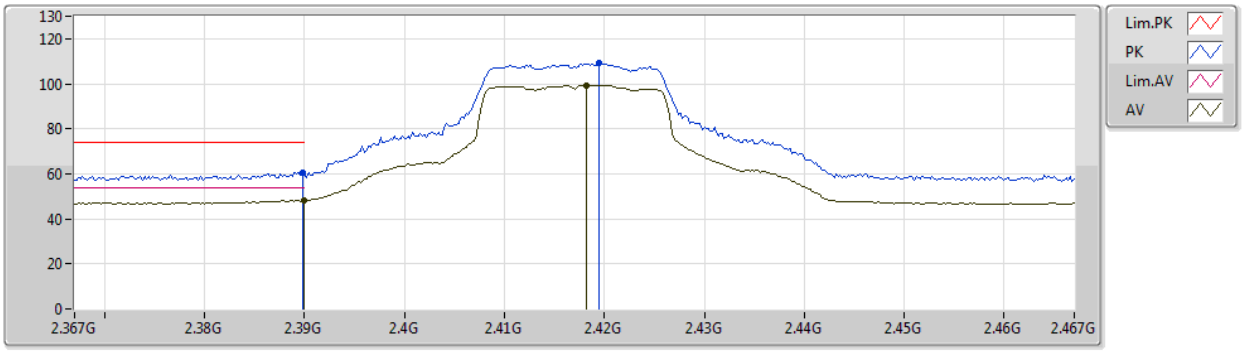


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82273G	34.30	54.00	-19.70	5.73	3	Horizontal	1	2.95	-	28.57	31.10	8.92	34.29
PK	4.82182G	46.92	74.00	-27.08	5.72	3	Horizontal	1	2.95	-	41.20	31.10	8.91	34.29

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

22/08/2019

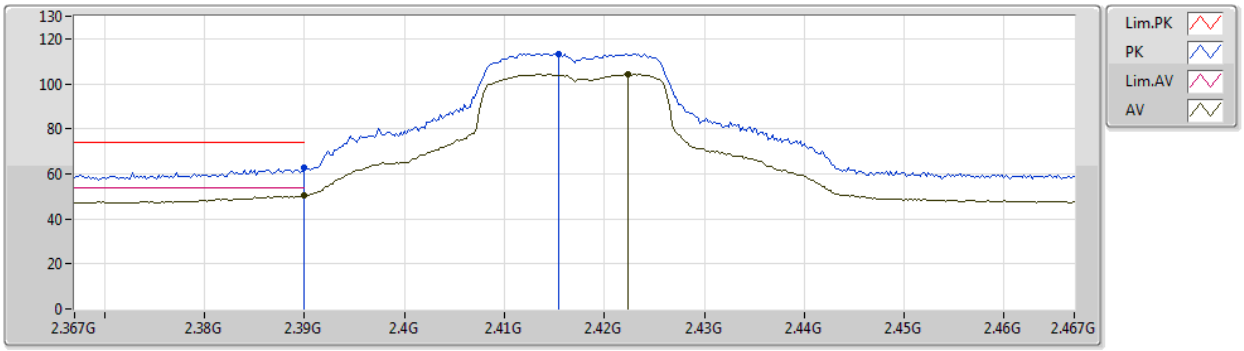


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	48.27	54.00	-5.73	33.75	3	Vertical	227	2.92	-	14.52	27.64	6.11	-
AV	2.4182G	99.40	Inf	-Inf	33.70	3	Vertical	227	2.92	-	65.70	27.58	6.12	-
PK	2.3898G	60.68	74.00	-13.32	33.75	3	Vertical	227	2.92	-	26.93	27.64	6.11	-
PK	2.4194G	109.03	Inf	-Inf	33.70	3	Vertical	227	2.92	-	75.33	27.58	6.12	-

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

22/08/2019

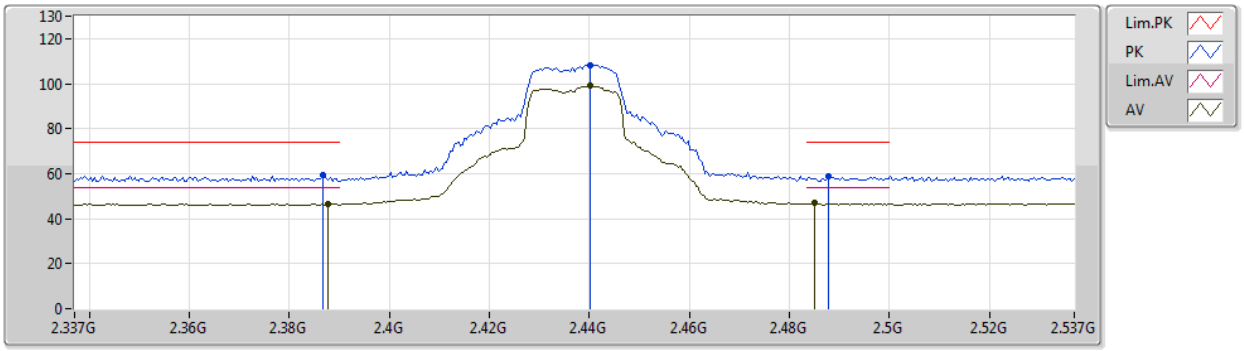


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	50.43	54.00	-3.57	33.75	3	Horizontal	306	1.00	-	16.68	27.64	6.11	-
AV	2.4224G	104.37	Inf	-Inf	33.70	3	Horizontal	306	1.00	-	70.67	27.58	6.12	-
PK	2.39G	62.61	74.00	-11.39	33.75	3	Horizontal	306	1.00	-	28.86	27.64	6.11	-
PK	2.4154G	113.45	Inf	-Inf	33.70	3	Horizontal	306	1.00	-	79.75	27.58	6.12	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

16/08/2019

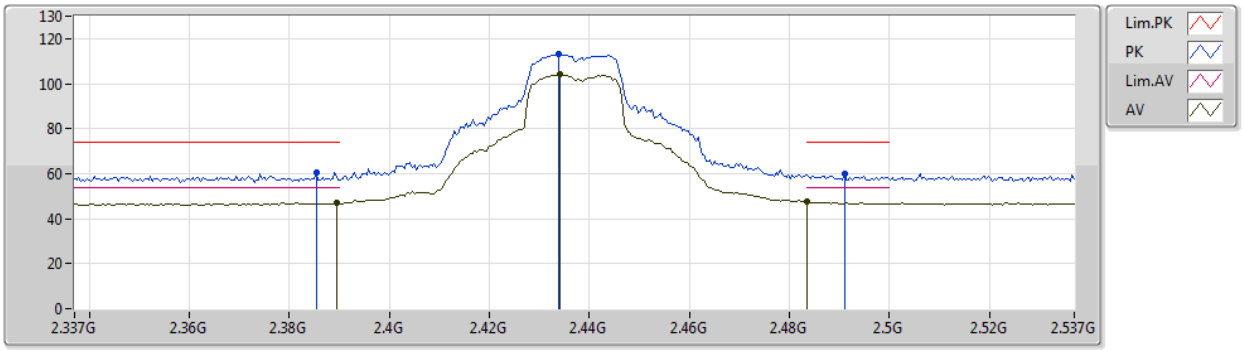


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3878G	46.54	54.00	-7.46	33.76	3	Vertical	263	1.01	-	12.78	27.65	6.11	-
AV	2.4402G	99.27	Inf	-Inf	33.69	3	Vertical	263	1.01	-	65.58	27.56	6.13	-
AV	2.485G	46.83	54.00	-7.17	33.67	3	Vertical	263	1.01	-	13.16	27.52	6.15	-
PK	2.3866G	59.46	74.00	-14.54	33.76	3	Vertical	263	1.01	-	25.70	27.65	6.11	-
PK	2.4402G	108.22	Inf	-Inf	33.69	3	Vertical	263	1.01	-	74.53	27.56	6.13	-
PK	2.4878G	58.85	74.00	-15.15	33.66	3	Vertical	263	1.01	-	25.19	27.51	6.15	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

16/08/2019

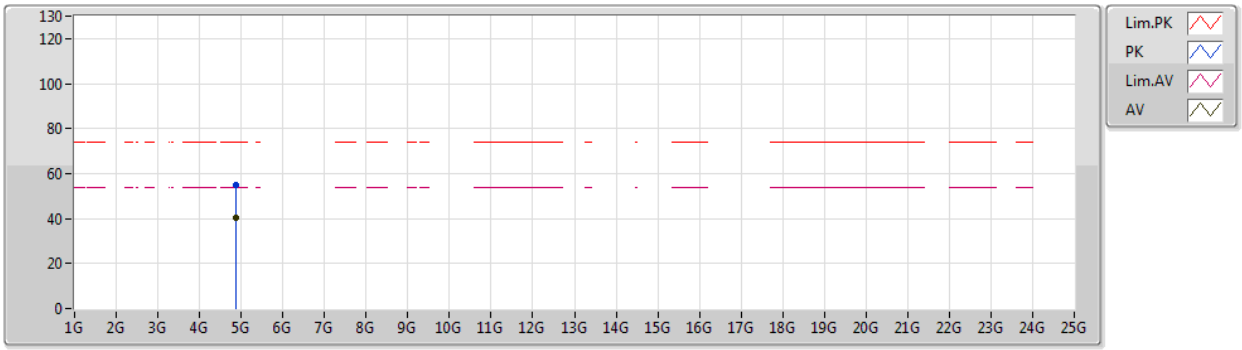


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3894G	46.93	54.00	-7.07	33.75	3	Horizontal	43	1.43	-	13.18	27.64	6.11	-
AV	2.4342G	103.96	Inf	-Inf	33.70	3	Horizontal	43	1.43	-	70.26	27.57	6.13	-
AV	2.4835G	47.49	54.00	-6.51	33.67	3	Horizontal	43	1.43	-	13.82	27.52	6.15	-
PK	2.3854G	60.32	74.00	-13.68	33.77	3	Horizontal	43	1.43	-	26.55	27.66	6.11	-
PK	2.4338G	113.03	Inf	-Inf	33.70	3	Horizontal	43	1.43	-	79.33	27.57	6.13	-
PK	2.491G	59.74	74.00	-14.26	33.66	3	Horizontal	43	1.43	-	26.08	27.51	6.15	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

16/08/2019

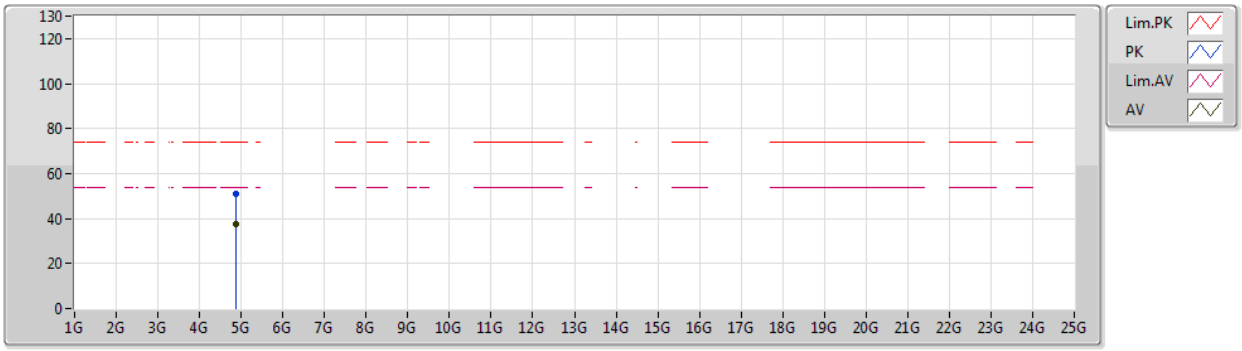


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87162G	40.51	54.00	-13.49	5.77	3	Vertical	234	1.00	-	34.74	31.10	8.95	34.28
PK	4.87305G	55.10	74.00	-18.90	5.78	3	Vertical	234	1.00	-	49.32	31.10	8.96	34.28

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

16/08/2019

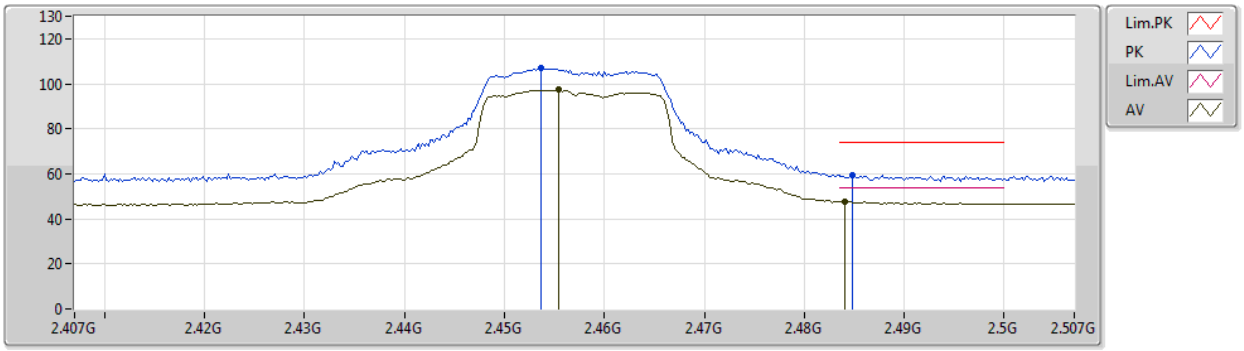


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87212G	37.37	54.00	-16.63	5.78	3	Horizontal	0	3.00	-	31.59	31.10	8.96	34.28
PK	4.87237G	50.75	74.00	-23.25	5.78	3	Horizontal	0	3.00	-	44.97	31.10	8.96	34.28

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

22/08/2019

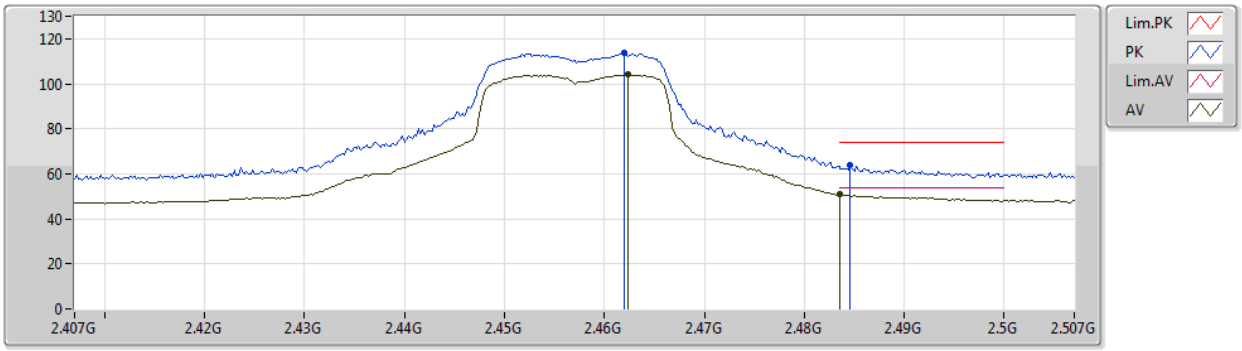


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4554G	97.38	Inf	-Inf	33.68	3	Vertical	360	1.12	-	63.70	27.54	6.14	-
AV	2.484G	47.65	54.00	-6.35	33.67	3	Vertical	360	1.12	-	13.98	27.52	6.15	-
PK	2.4536G	106.92	Inf	-Inf	33.68	3	Vertical	360	1.12	-	73.24	27.55	6.13	-
PK	2.4848G	59.56	74.00	-14.44	33.67	3	Vertical	360	1.12	-	25.89	27.52	6.15	-

802.11n HT20_Nss1,(MCS0)_2TX

22/08/2019

2457MHz_TX

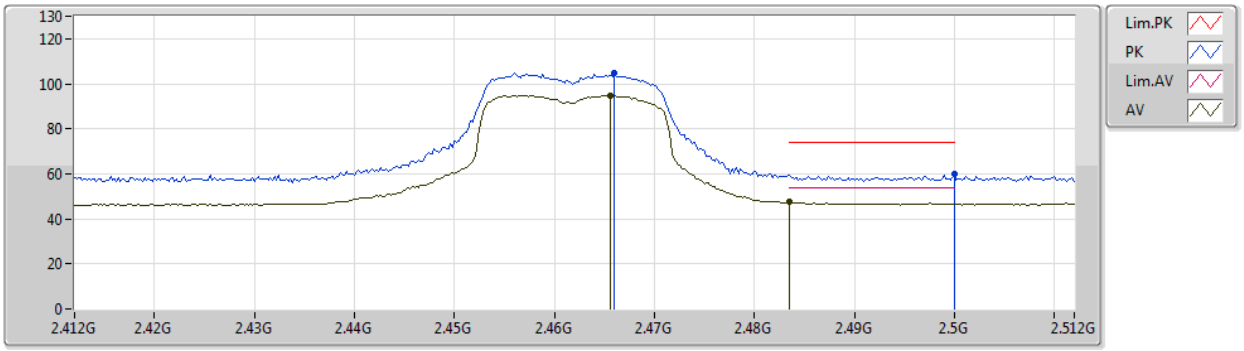


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4624G	103.99	Inf	-Inf	33.68	3	Horizontal	305	1.00	-	70.31	27.54	6.14	-
AV	2.4835G	50.77	54.00	-3.23	33.67	3	Horizontal	305	1.00	-	17.10	27.52	6.15	-
PK	2.462G	113.69	Inf	-Inf	33.68	3	Horizontal	305	1.00	-	80.01	27.54	6.14	-
PK	2.4846G	64.03	74.00	-9.97	33.67	3	Horizontal	305	1.00	-	30.36	27.52	6.15	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

16/08/2019

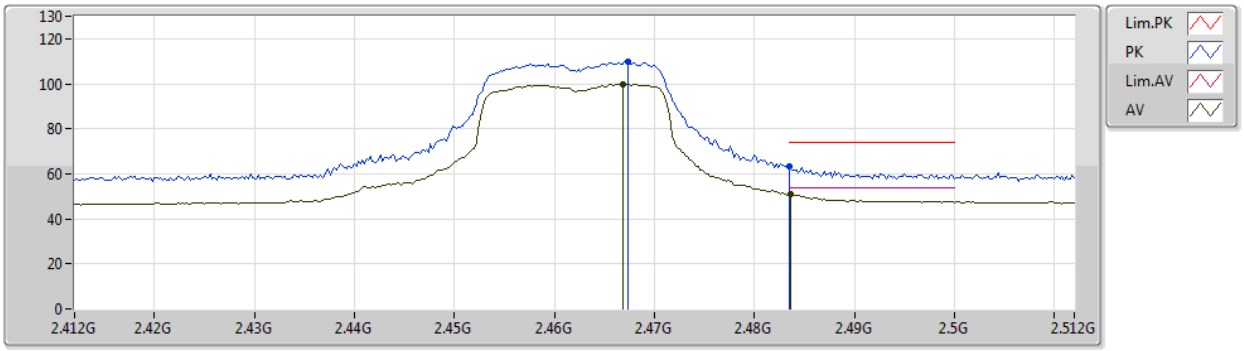


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4656G	94.76	Inf	-Inf	33.67	3	Vertical	266	2.07	-	61.09	27.53	6.14	-
AV	2.4835G	47.35	54.00	-6.65	33.67	3	Vertical	266	2.07	-	13.68	27.52	6.15	-
PK	2.466G	104.53	Inf	-Inf	33.67	3	Vertical	266	2.07	-	70.86	27.53	6.14	-
PK	2.5G	59.89	74.00	-14.11	33.65	3	Vertical	266	2.07	-	26.24	27.50	6.15	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

16/08/2019

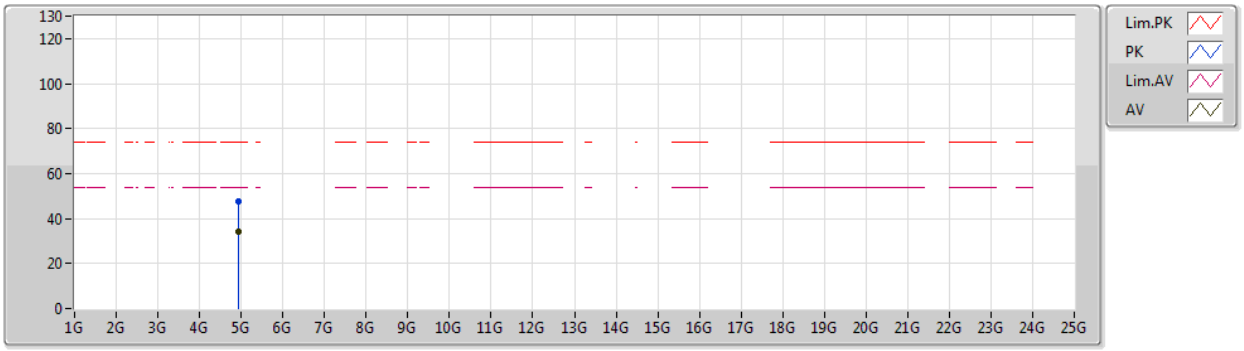


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4668G	99.95	Inf	-Inf	33.67	3	Horizontal	44	1.50	-	66.28	27.53	6.14	-
AV	2.4836G	50.79	54.00	-3.21	33.67	3	Horizontal	44	1.50	-	17.12	27.52	6.15	-
PK	2.4674G	110.02	Inf	-Inf	33.67	3	Horizontal	44	1.50	-	76.35	27.53	6.14	-
PK	2.4835G	63.05	74.00	-10.95	33.67	3	Horizontal	44	1.50	-	29.38	27.52	6.15	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

16/08/2019

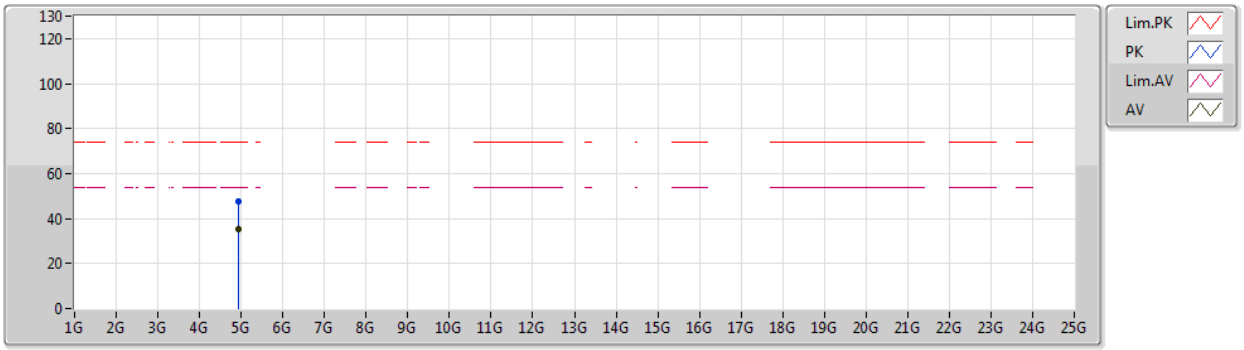


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92432G	34.46	54.00	-19.54	5.98	3	Vertical	232	1.00	-	28.48	31.20	9.00	34.22
PK	4.92395G	47.73	74.00	-26.27	5.98	3	Vertical	232	1.00	-	41.75	31.20	9.00	34.22

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

16/08/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92167G	35.06	54.00	-18.94	5.95	3	Horizontal	11	1.03	-	29.11	31.19	8.99	34.23
PK	4.92158G	47.70	74.00	-26.30	5.95	3	Horizontal	11	1.03	-	41.75	31.19	8.99	34.23