

FCC Test Report

FCC ID : COF-WMBANMT41
Equipment : 802.11 a/b/g/n + BT 4.2 module
Brand Name : USI
Model Name : WM-BAN-MT-41
Applicant : Universal Global Scientific Industrial Co., Ltd
141, Lane 351, Sec. 1, Taiping Road., Tsaotuen,
Nantou 54261, Taiwan
Manufacturer : Universal Global Scientific Industrial Co., Ltd
141, Lane 351, Sec. 1, Taiping Road., Tsaotuen,
Nantou 54261, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on May 20, 2019, and testing was started from May 22, 2019 and completed on May 31, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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


Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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History of this test report

Report No.	Version	Description	Issued Date
FR952001AC	01	Initial issue of report	Jun. 24, 2019
FR952001AC	02	Modified 1 1.1 RF General Information This report is the latest version replacing for the report issued on Jun. 24, 2019.	Jul. 05, 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: Sam Tsai

Report Producer: Amber Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number				
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]				
2400-2483.5	n (HT40)	2422-2452	3-9 [7]				
Note 1: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.							
Note 2: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.							
Data Rate (MHz)	11b mode: 1 / 2 / 5.5 / 11 11g mode: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 11n mode: See the below table						
802.11n Data Rate							
index	Spatial streams	Modulation type	Coding rate	Data rate (Mbit/s)			
				20 MHz Bandwidth		40 MHz Bandwidth	
				800 ns GI	800 ns GI	800 ns GI	800 ns GI
MCS 0	1	BPSK	1/2	6.5	7.2	13.5	15
MCS 1	1	QPSK	1/2	13	14.4	27	30
MCS 2	1	QPSK	3/4	19.5	21.7	40.5	45
MCS 3	1	16-QAM	1/2	26	28.9	54	60
MCS 4	1	16-QAM	3/4	39	43.3	81	90
MCS 5	1	64-QAM	2/3	52	57.8	108	120
MCS 6	1	64-QAM	3/4	58.5	65	121.5	135
MCS 7	1	64-QAM	5/6	65	72.2	135	150

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	-	-	Printed antenna	Murata

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	1	0	3	0

For 2.4GHz function:

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

Ant. 1 could transmit/receive simultaneously.

For BT function:

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

Ant. 1 could transmit/receive simultaneously.

For 5GHz function:

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

Ant. 1 could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter / DC power supply / Host System			
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	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT20	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Tim	23-24°C / 61-64%	28/May/2019~31/May/2019
Radiated	03CH02-HY	Patrick	24.6-27.8°C / 52.5-56.9%	22/May/2019~31/May/2019
AC Conduction	CO01-HY	Edward	24.3-27.8°C / 52.4-63.1%	25/May/2019

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	5V

2.2 Test Channel Mode

Test Software Version	QATool_Dbg_ARM
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Mode	PowerSetting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	1C
2417MHz	1C
2437MHz	1C
2457MHz	1C
2462MHz	1C
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	1C
2417MHz	1C
2437MHz	1B
2457MHz	1B
2462MHz	1B
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	1C
2417MHz	1C
2437MHz	1C
2457MHz	1C
2462MHz	1C
802.11n HT40_Nss1,(MCS0)_1TX	-
2422MHz	1A
2427MHz	19
2437MHz	19
2447MHz	19
2452MHz	19

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	DC Power Supply 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	DC Power Supply mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	Bluetooth+WLAN 2.4GHz
2	Bluetooth+WLAN 5GHz
Refer to Sporton Test Report No.: FA952001 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.4 Support Equipment

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	DC Power Supply	GW	GPR-3510HD	N/A
2	Test Fixture	N/A	N/A	N/A

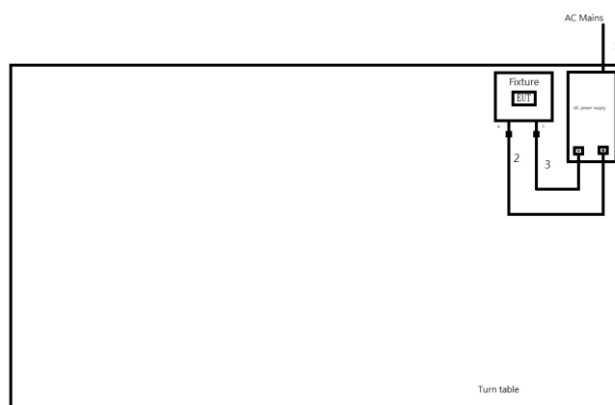
Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	PC	ASUS	D302MT	N/A
2	Monitor	DELL	VCDTS21553-3P	DoC
3	Test Fixture	N/A	N/A	N/A

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

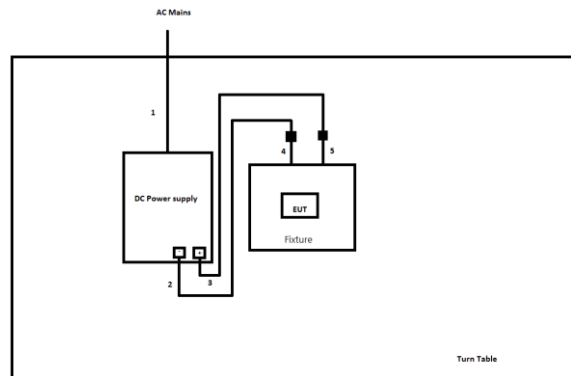
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	DC Power Supply	GW	GPR-3510HD	N/A
2	Test Fixture	N/A	N/A	N/A

2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8	-
2	DC Power line	No	1.0	-
3	DC Power line	No	1.0	-
4	DC Power line	No	0.2	-
5	DC Power line	No	0.2	-

Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8	-
2	DC Power line	No	1.0	-
3	DC Power line	No	1.0	-
4	DC Power line	No	0.2	-
5	DC Power line	No	0.2	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

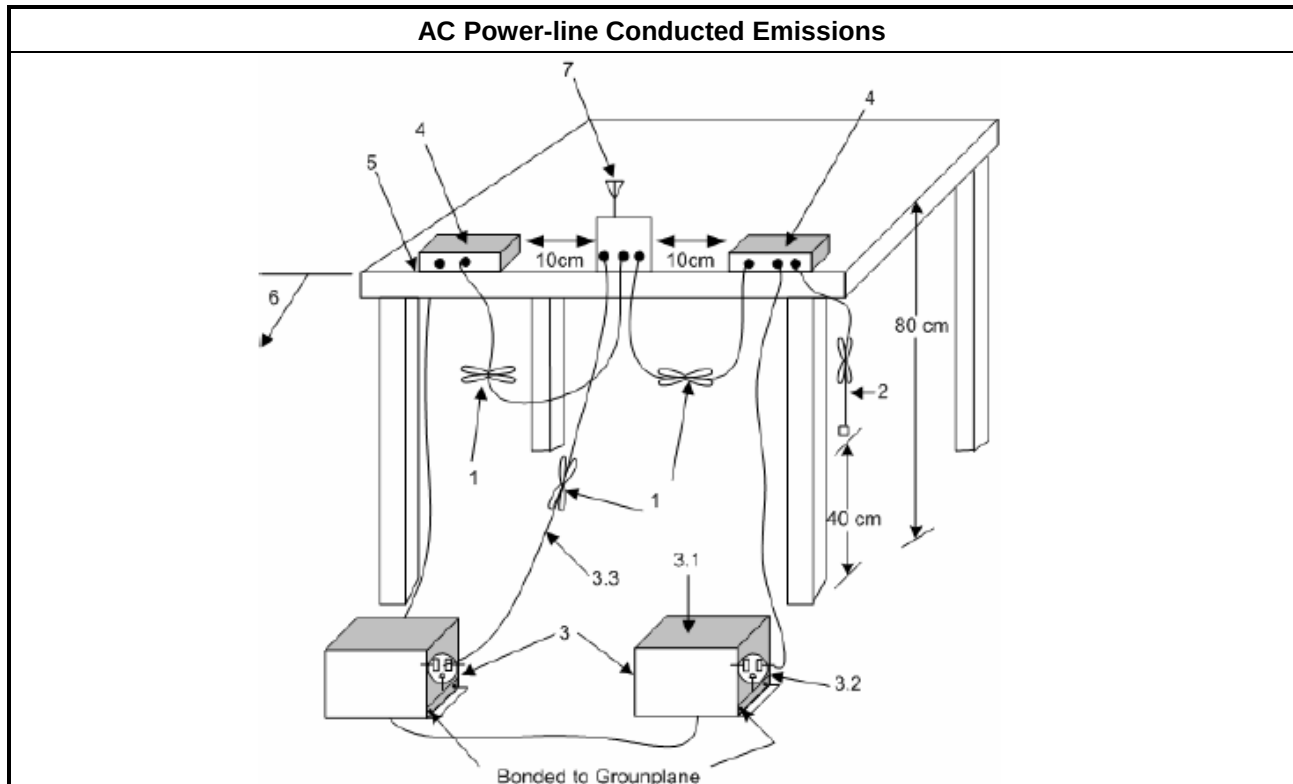
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

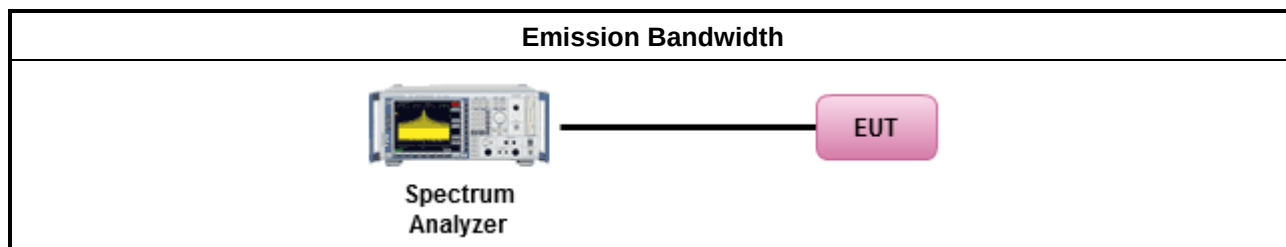
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

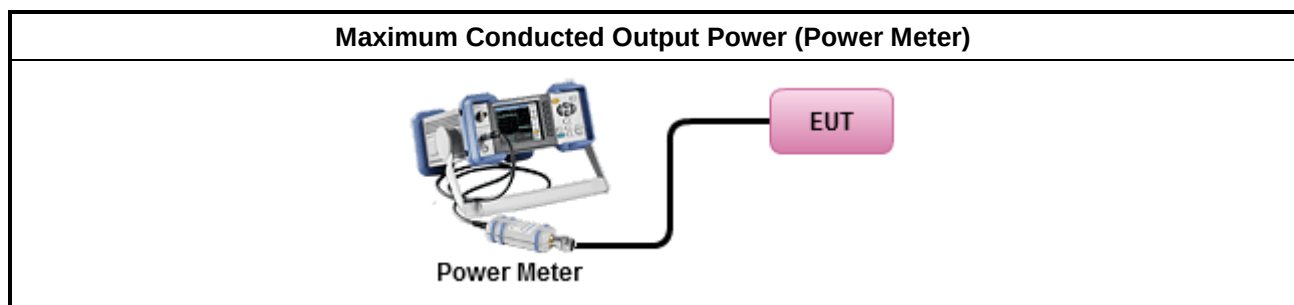
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

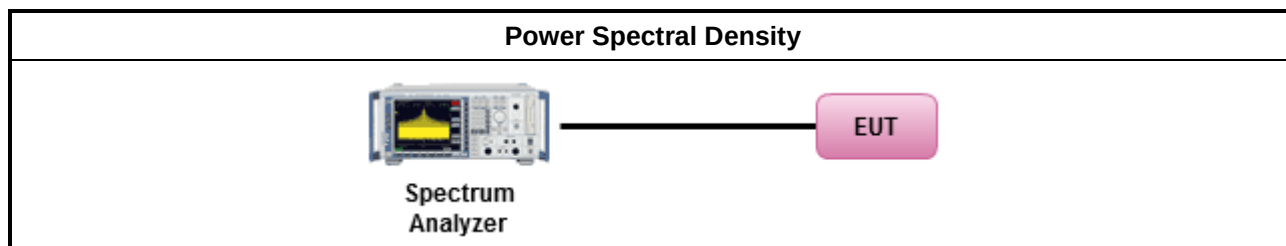
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Method PKPSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
▪	Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

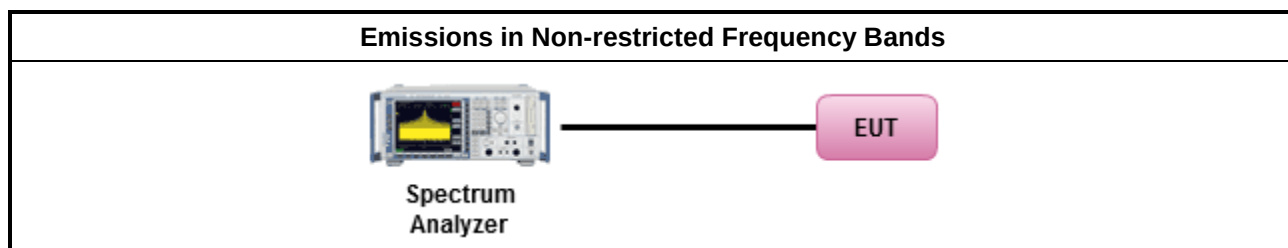
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

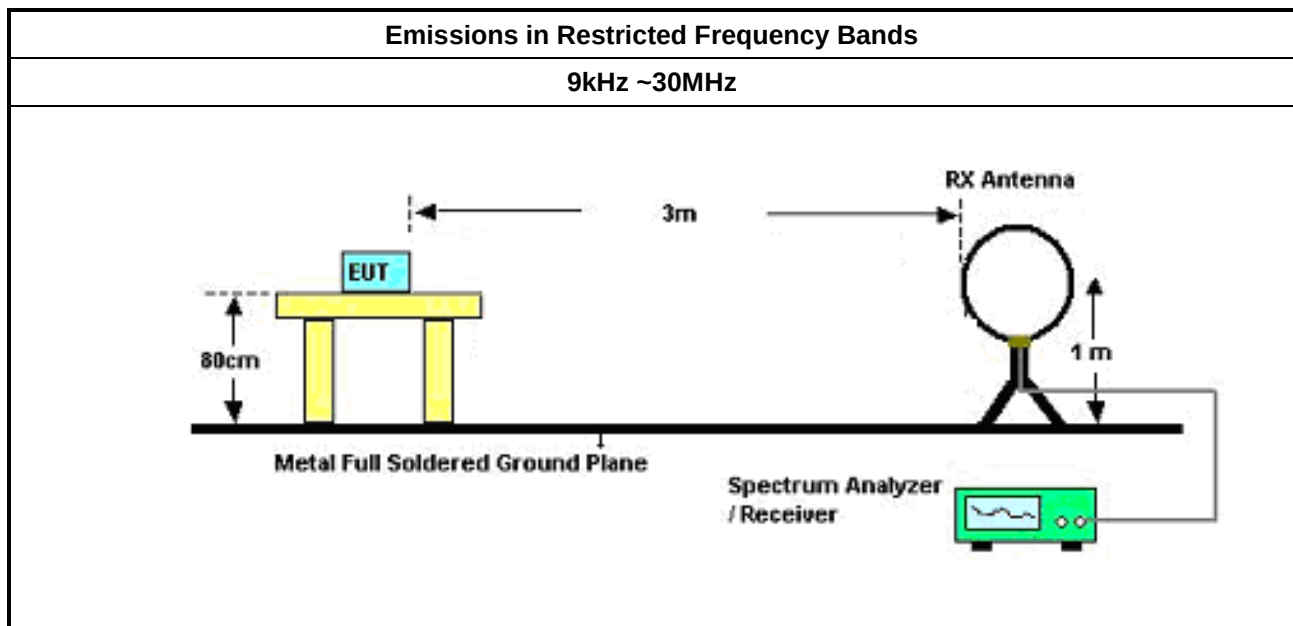
3.6.2 Measuring Instruments

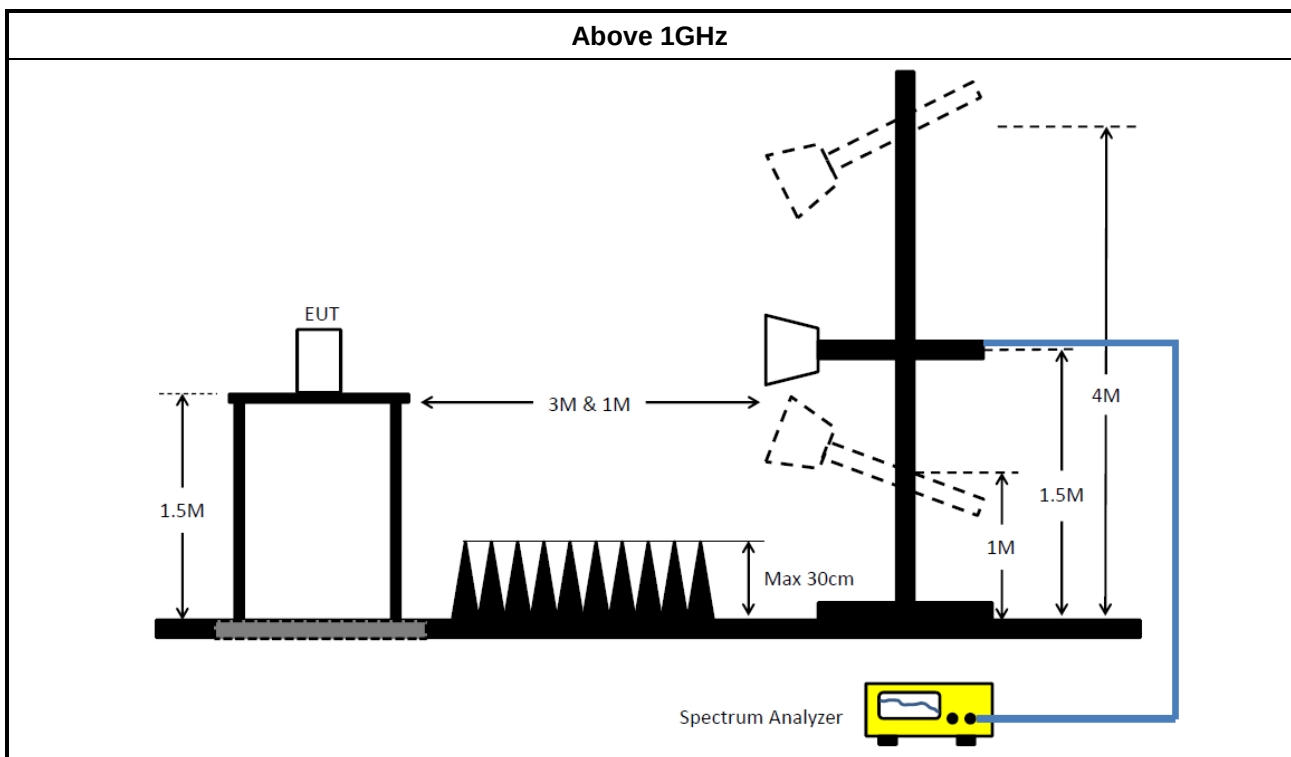
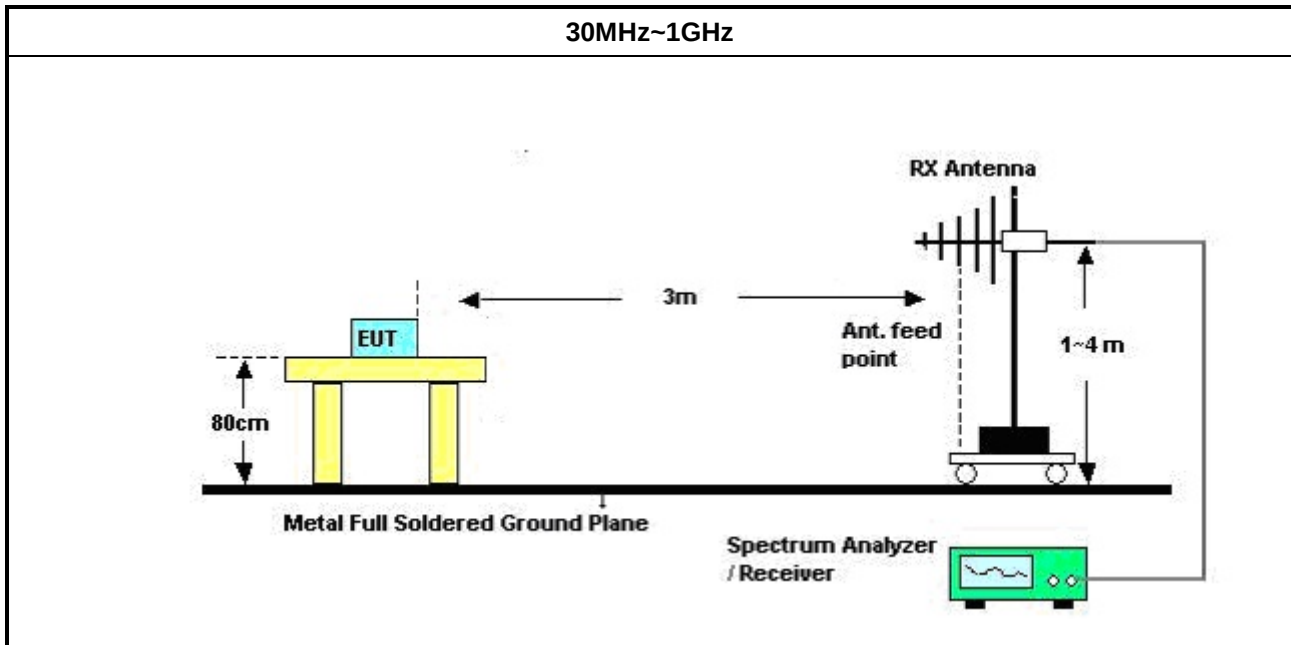
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.

3.6.4 Test Setup





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

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

3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
LISN	R&S	ENV 216	101274	9kHz ~ 30MHz	12/Jun/2018	11/Jun/2019
RF Cable-CON	MTJ	RG142	CB001-CO	9kHz ~ 30MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11003G	F308010045	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Puls e Limiter	SCHWARZBECK	VTSD 9561F	9495	9kHz ~ 30MHz	11/Oct/2018	10/Oct/2019

NCR : Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	19/Oct/2018	18/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	17/Oct/2018	16/Oct/2019
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	27Jul/2018	02/Jul/2019
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	23/Oct/2018	22/Oct/2019
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40GHz	18/Jul/2018	17/Jul/2019
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	18/Jan/2019	17/Jan/2020
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	18/Jan/2019	17/Jan/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz ~ 1GHz	08/Sep/2018	07/Sep/2019
EMI Test Receiver	R&S	ESR	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	22/Mar/2019	21/Mar/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	03/Jun/2019	02/Jun/2020

Instrument for Conducted Test

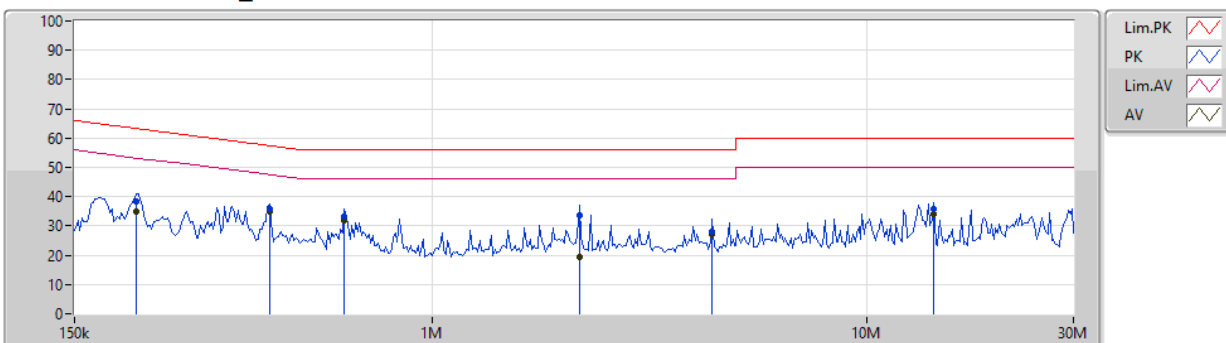
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101500	10Hz~40GHz	18/Jul/2018	17/Jul/2019
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
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

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	DC power supply		

AC Conduction_Mode 1

25/05/2019



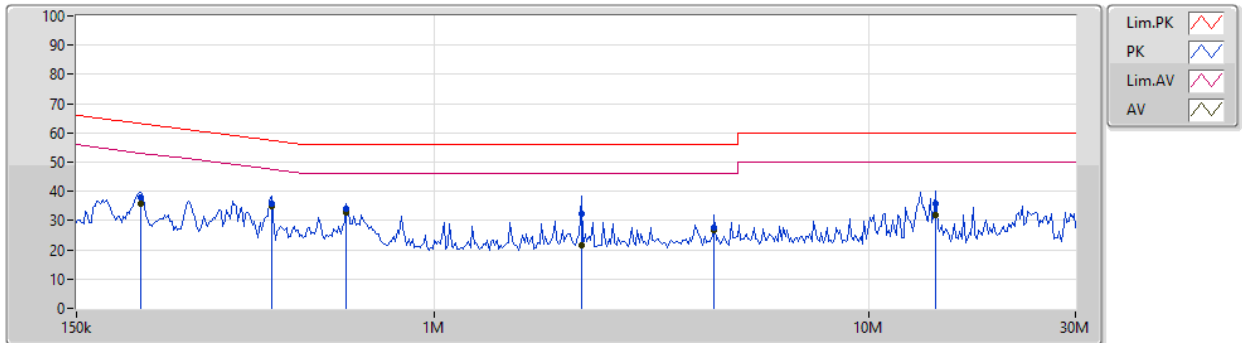
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	208.304k	38.44	63.27	-24.83	19.51	Neutral	-	18.93	9.64	0.01	9.86			
AV	208.304k	34.95	53.27	-18.32	19.51	Neutral	-	15.44	9.64	0.01	9.86			
QP	422.196k	35.94	57.40	-21.46	19.51	Neutral	-	16.43	9.64	0.01	9.86			
AV	422.196k	35.08	47.40	-12.32	19.51	Neutral	"Worst"	15.57	9.64	0.01	9.86			
QP	628.592k	33.33	56.00	-22.67	19.51	Neutral	-	13.82	9.64	0.01	9.86			
AV	628.592k	32.05	46.00	-13.95	19.51	Neutral	-	12.54	9.64	0.01	9.86			
QP	2.18M	33.79	56.00	-22.21	19.55	Neutral	-	14.24	9.65	0.03	9.87			
AV	2.18M	19.40	46.00	-26.60	19.55	Neutral	-	-0.15	9.65	0.03	9.87			
QP	4.419M	28.07	56.00	-27.93	19.59	Neutral	-	8.48	9.66	0.05	9.88			
AV	4.419M	27.24	46.00	-18.76	19.59	Neutral	-	7.65	9.66	0.05	9.88			
QP	14.298M	35.86	60.00	-24.14	19.73	Neutral	-	16.13	9.71	0.09	9.93			
AV	14.298M	34.13	50.00	-15.87	19.73	Neutral	-	14.40	9.71	0.09	9.93			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	DC power supply		

AC Conduction_Mode 1

25/05/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	210.387k	37.91	63.19	-25.28	19.48	Line	-	18.43	9.61	0.01	9.86			
AV	210.387k	35.70	53.19	-17.49	19.48	Line	-	16.22	9.61	0.01	9.86			
QP	422.196k	35.71	57.40	-21.69	19.48	Line	-	16.23	9.61	0.01	9.86			
AV	422.196k	34.87	47.40	-12.53	19.48	Line	"Worst"	15.39	9.61	0.01	9.86			
QP	628.592k	33.91	56.00	-22.09	19.48	Line	-	14.43	9.61	0.01	9.86			
AV	628.592k	32.73	46.00	-13.27	19.48	Line	-	13.25	9.61	0.01	9.86			
QP	2.18M	32.53	56.00	-23.47	19.52	Line	-	13.01	9.62	0.03	9.87			
AV	2.18M	21.74	46.00	-24.26	19.52	Line	-	2.22	9.62	0.03	9.87			
QP	4.419M	27.53	56.00	-28.47	19.56	Line	-	7.97	9.63	0.05	9.88			
AV	4.419M	26.83	46.00	-19.17	19.56	Line	-	7.27	9.63	0.05	9.88			
QP	14.298M	35.62	60.00	-24.38	19.67	Line	-	15.95	9.65	0.09	9.93			
AV	14.298M	31.74	50.00	-18.26	19.67	Line	-	12.07	9.65	0.09	9.93			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	9.55M	14.268M	14M3G1D	9.05M	14.193M
802.11g_Nss1,(6Mbps)_1TX	16.275M	16.367M	16M4D1D	15.825M	16.342M
802.11n HT20_Nss1,(MCS0)_1TX	17.55M	17.541M	17M5D1D	17.55M	17.516M
802.11n HT40_Nss1,(MCS0)_1TX	35.9M	35.832M	35M8D1D	35M	35.782M

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

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

Result

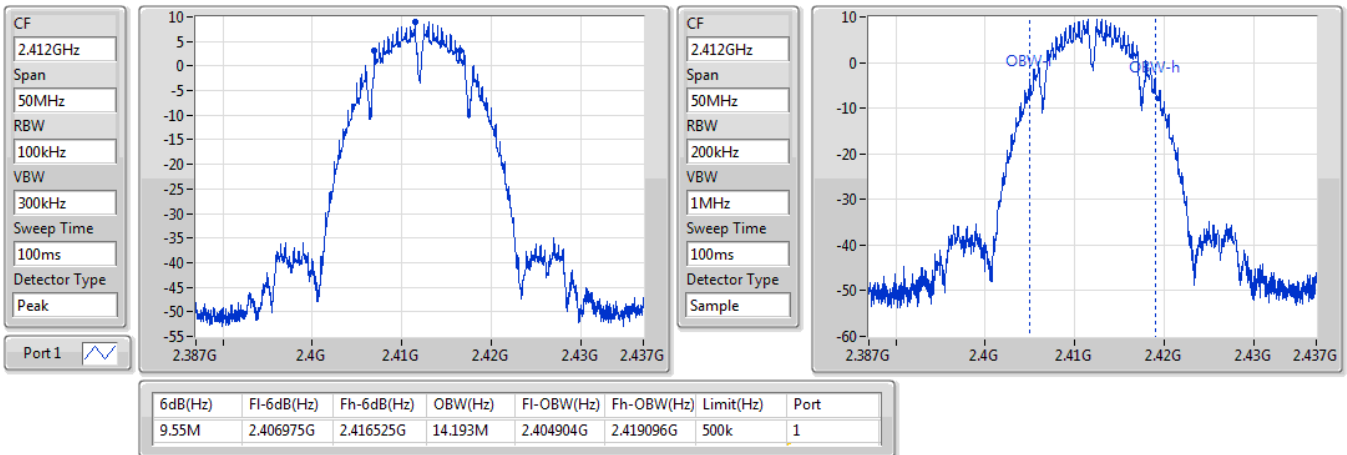
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	9.55M	14.193M
2437MHz	Pass	500k	9.075M	14.243M
2462MHz	Pass	500k	9.05M	14.268M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.05M	16.367M
2437MHz	Pass	500k	16.275M	16.342M
2462MHz	Pass	500k	15.825M	16.367M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.55M	17.541M
2437MHz	Pass	500k	17.55M	17.516M
2462MHz	Pass	500k	17.55M	17.541M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	35.9M	35.832M
2437MHz	Pass	500k	35.4M	35.782M
2452MHz	Pass	500k	35M	35.832M

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

802.11b_Nss1,(1Mbps)_1TX

2412MHz

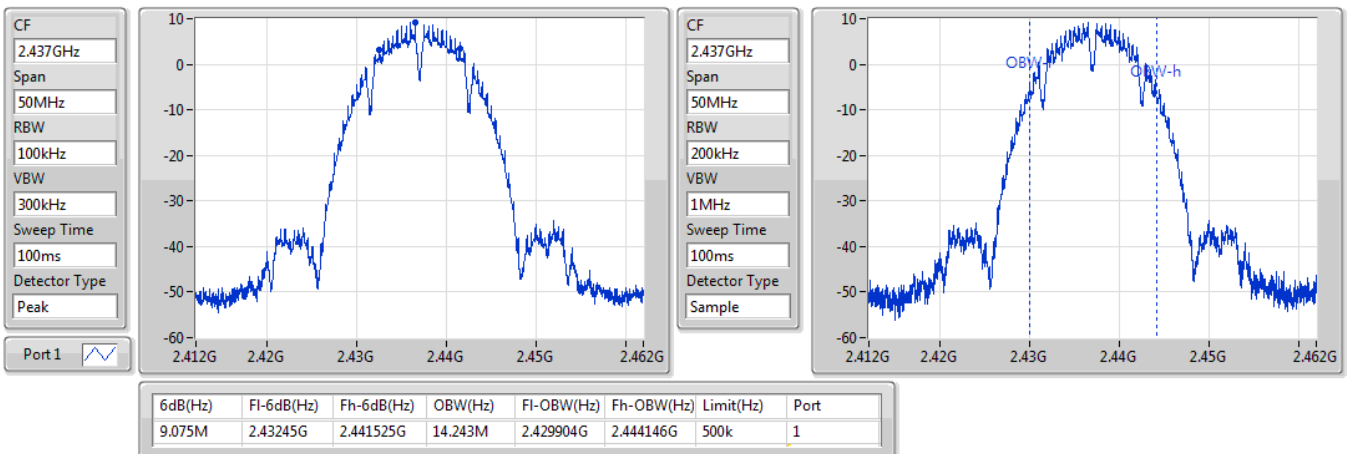
31/05/2019



802.11b_Nss1,(1Mbps)_1TX

2437MHz

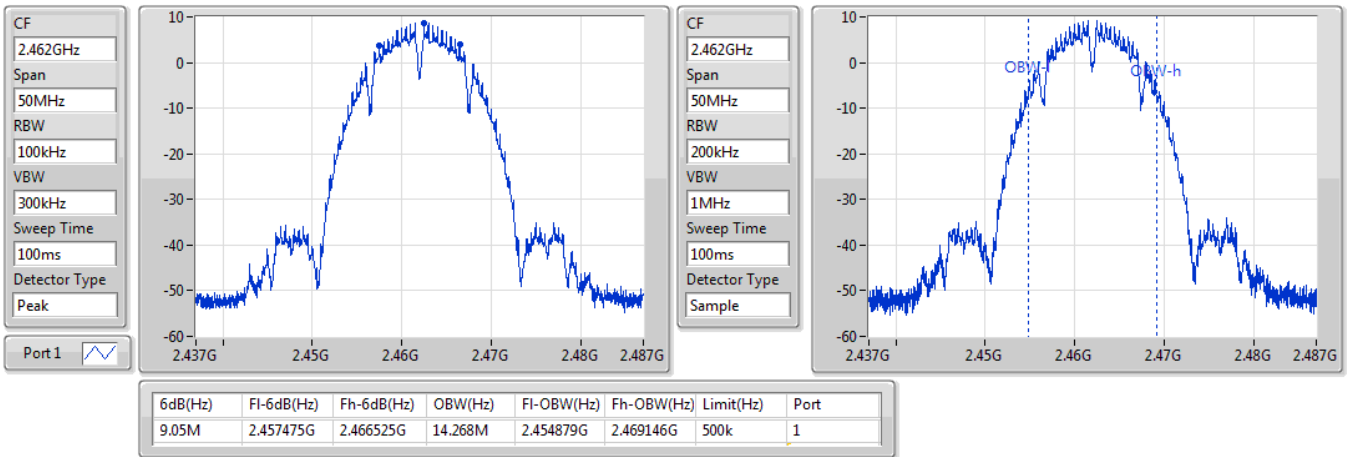
28/05/2019



802.11b_Nss1,(1Mbps)_1TX

EBW
2462MHz

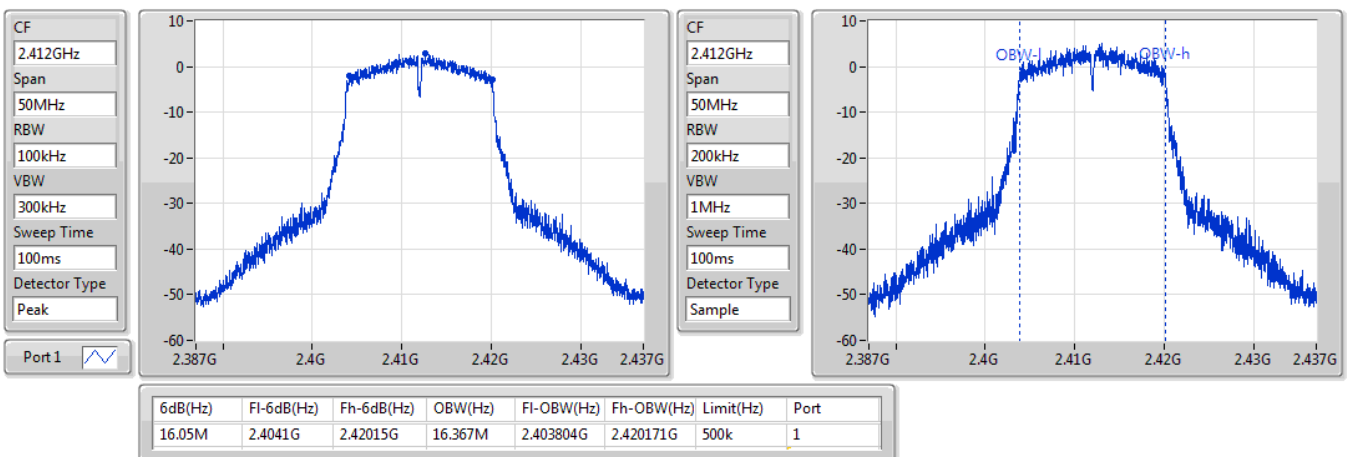
28/05/2019



802.11g_Nss1,(6Mbps)_1TX

EBW
2412MHz

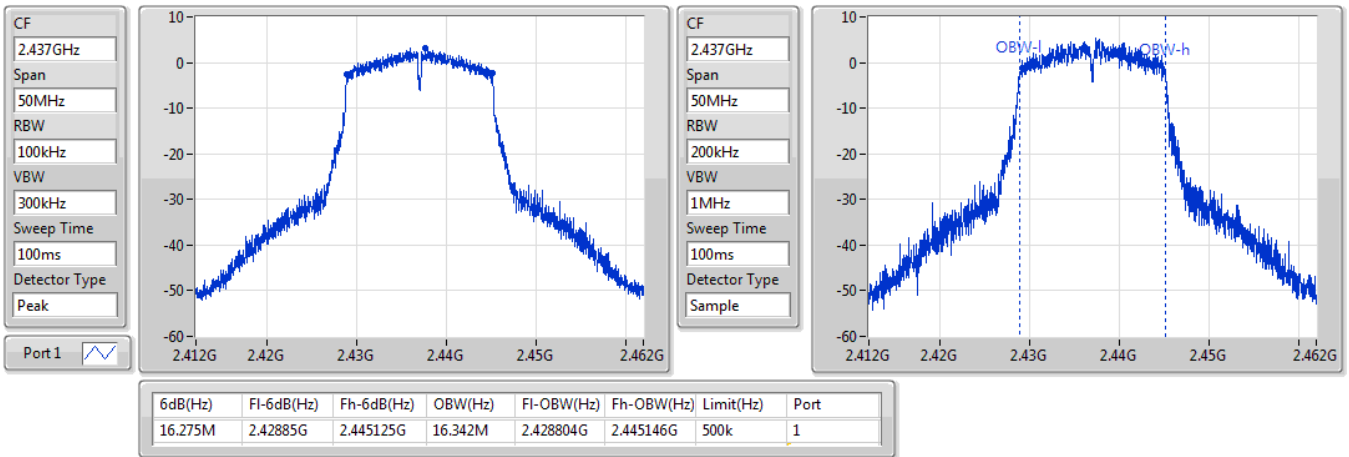
28/05/2019



802.11g_Nss1,(6Mbps)_1TX

EBW
2437MHz

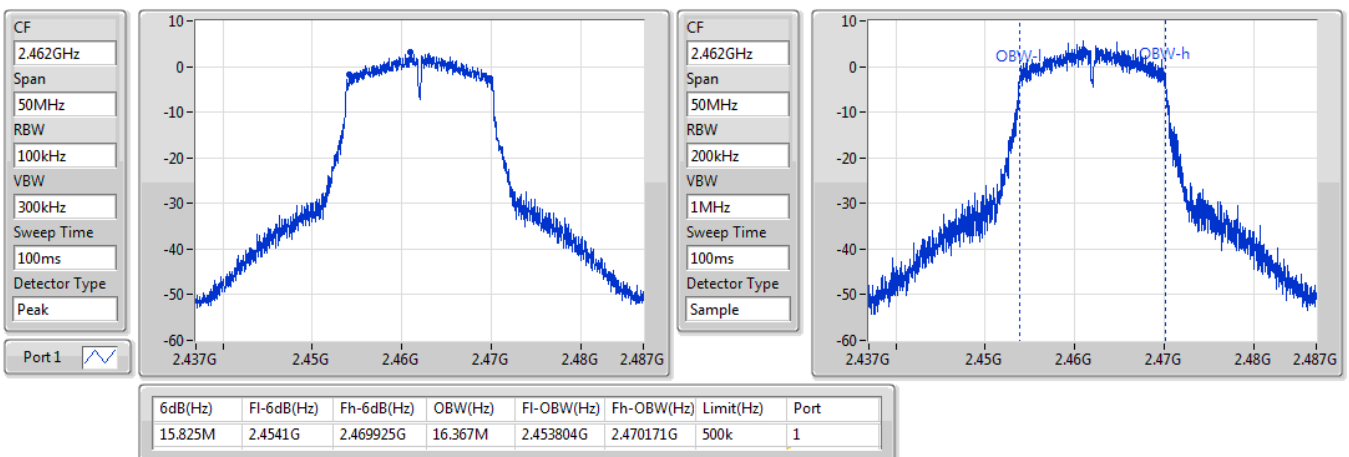
28/05/2019



802.11g_Nss1,(6Mbps)_1TX

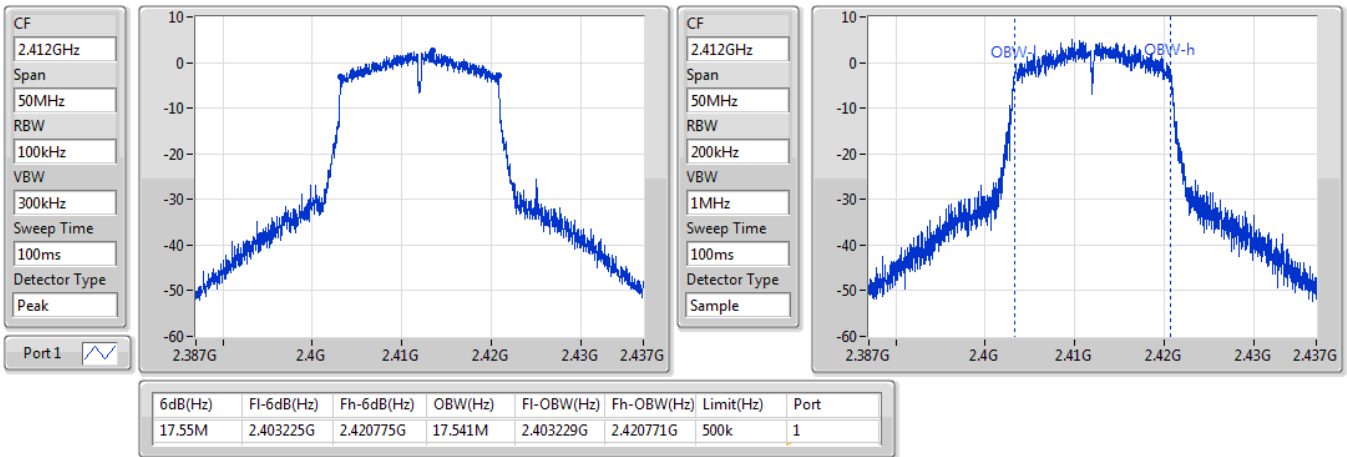
EBW
2462MHz

28/05/2019

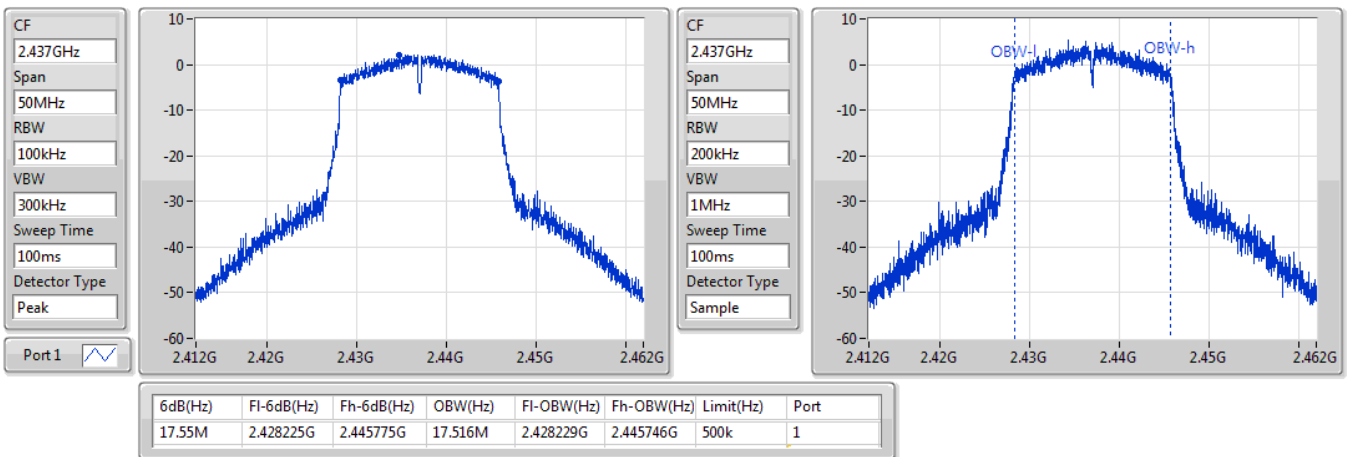


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2412MHz

28/05/2019

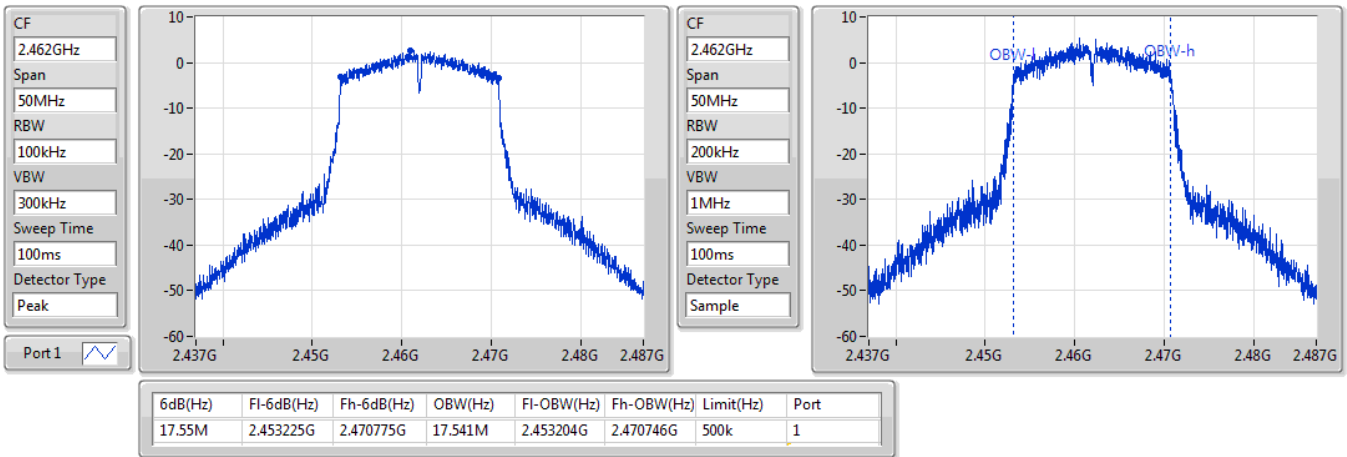

802.11n HT20_Nss1,(MCS0)_1TX
EBW
2437MHz

28/05/2019

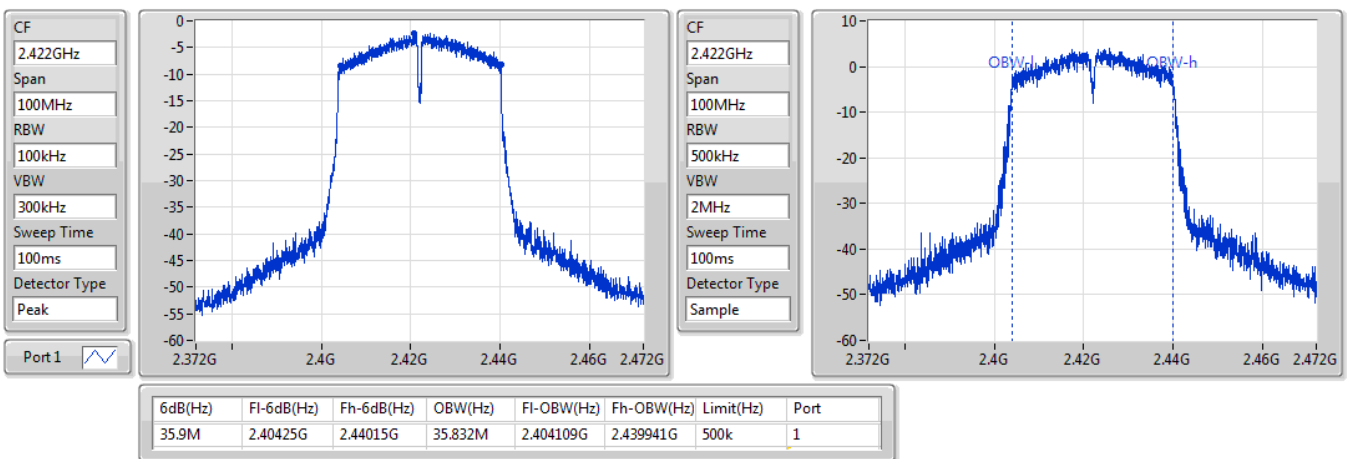


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2462MHz

28/05/2019

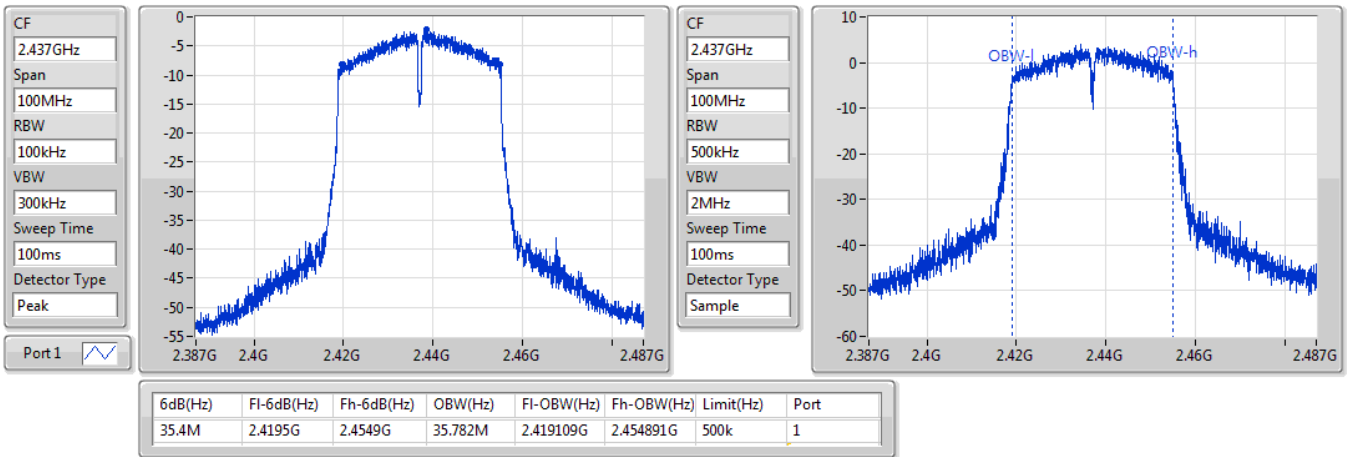

802.11n HT40_Nss1,(MCS0)_1TX
EBW
2422MHz

28/05/2019

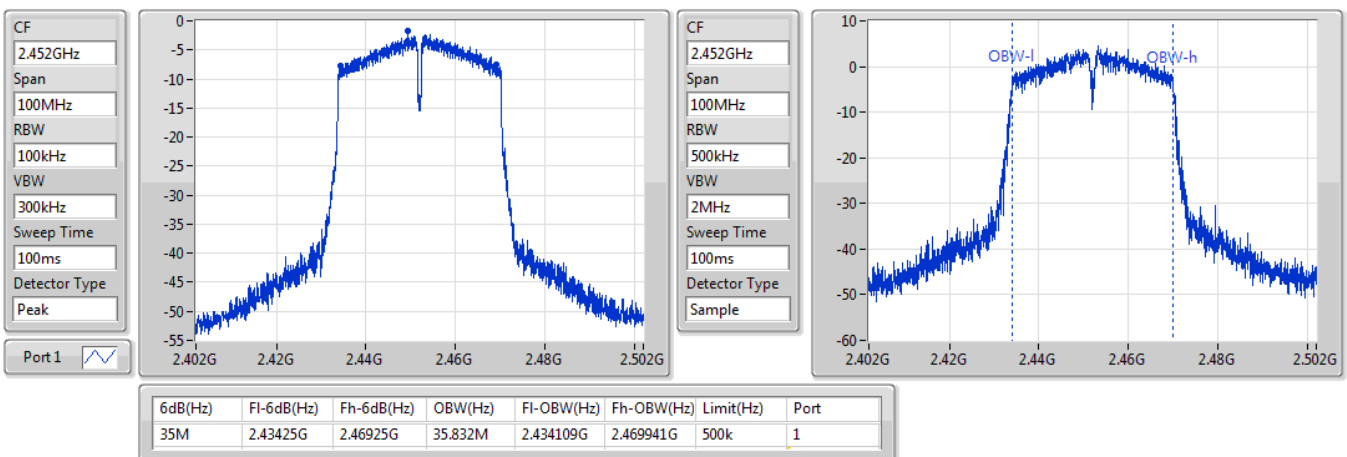


802.11n HT40_Nss1,(MCS0)_1TX
EBW
2437MHz

28/05/2019


802.11n HT40_Nss1,(MCS0)_1TX
EBW
2452MHz

28/05/2019





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	18.47	0.07031
802.11g_Nss1,(6Mbps)_1TX	16.48	0.04446
802.11n HT20_Nss1,(MCS0)_1TX	16.35	0.04315
802.11n HT40_Nss1,(MCS0)_1TX	14.40	0.02754

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	0.00	18.36	18.36	30.00
2417MHz	Pass	0.00	18.25	18.25	30.00
2437MHz	Pass	0.00	18.43	18.43	30.00
2457MHz	Pass	0.00	18.47	18.47	30.00
2462MHz	Pass	0.00	18.24	18.24	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	0.00	16.18	16.18	30.00
2417MHz	Pass	0.00	16.45	16.45	30.00
2437MHz	Pass	0.00	16.48	16.48	30.00
2457MHz	Pass	0.00	16.13	16.13	30.00
2462MHz	Pass	0.00	16.18	16.18	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	0.00	16.35	16.35	30.00
2417MHz	Pass	0.00	16.02	16.02	30.00
2437MHz	Pass	0.00	16.13	16.13	30.00
2457MHz	Pass	0.00	16.24	16.24	30.00
2462MHz	Pass	0.00	16.26	16.26	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	0.00	14.40	14.40	30.00
2427MHz	Pass	0.00	14.03	14.03	30.00
2437MHz	Pass	0.00	14.27	14.27	30.00
2447MHz	Pass	0.00	14.16	14.16	30.00
2452MHz	Pass	0.00	14.20	14.20	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-5.62
802.11g_Nss1,(6Mbps)_1TX	-8.71
802.11n HT20_Nss1,(MCS0)_1TX	-9.30
802.11n HT40_Nss1,(MCS0)_1TX	-13.32

RBW=3 kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	0.00	-5.62	-5.62	8.00
2437MHz	Pass	0.00	-5.72	-5.72	8.00
2462MHz	Pass	0.00	-5.64	-5.64	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	0.00	-9.76	-9.76	8.00
2437MHz	Pass	0.00	-8.71	-8.71	8.00
2462MHz	Pass	0.00	-9.69	-9.69	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	0.00	-9.30	-9.30	8.00
2437MHz	Pass	0.00	-9.73	-9.73	8.00
2462MHz	Pass	0.00	-9.91	-9.91	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	0.00	-14.04	-14.04	8.00
2437MHz	Pass	0.00	-13.32	-13.32	8.00
2452MHz	Pass	0.00	-14.47	-14.47	8.00

DG = Directional Gain; RBW=3 kHz;

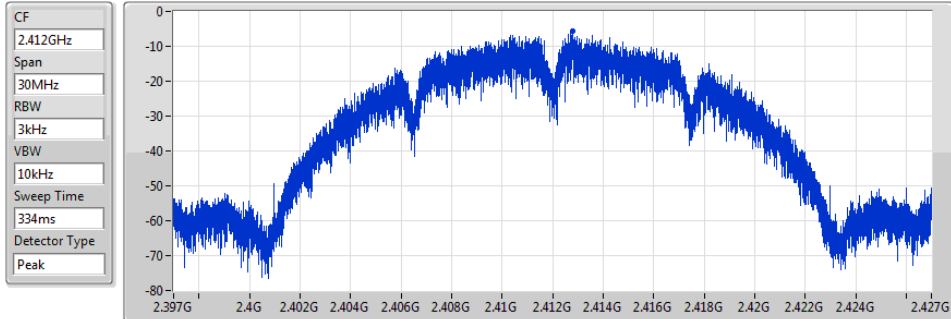
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

31/05/2019



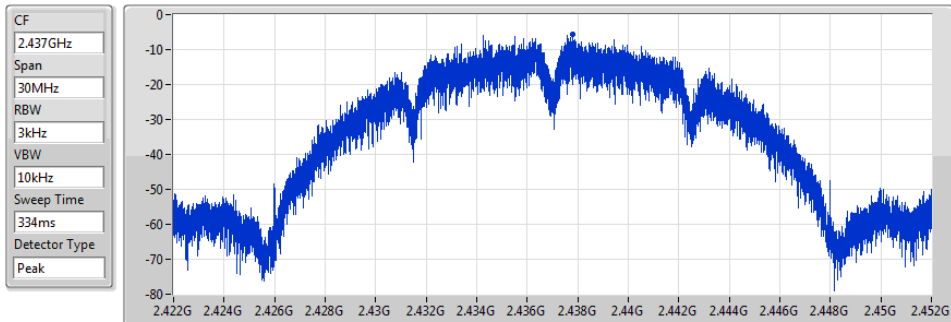
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.62	-5.62	-5.62

802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

28/05/2019



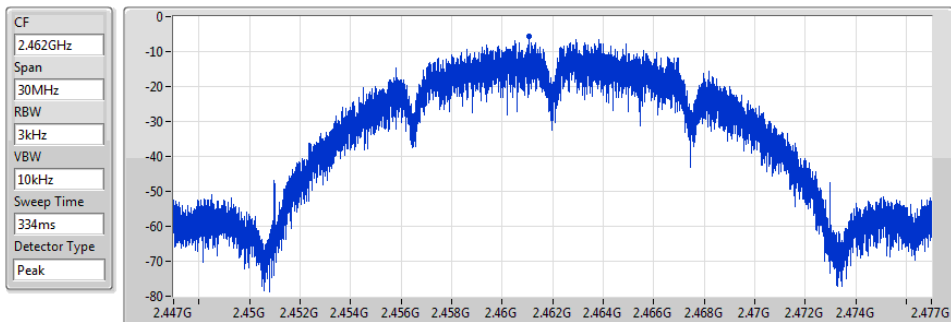
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.72	-5.72	-5.72

802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

28/05/2019



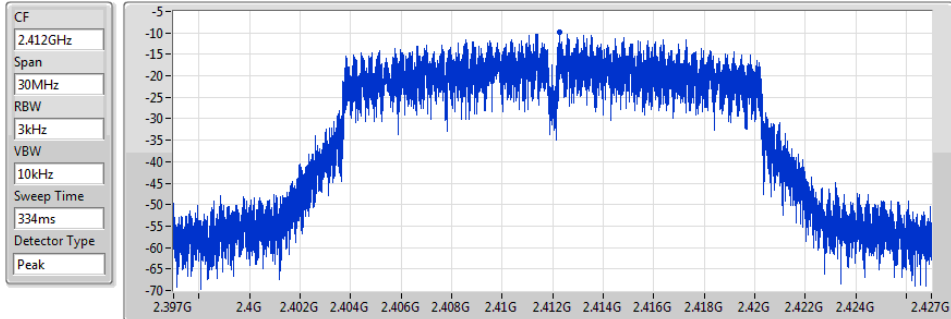
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.64	-5.64	-5.64

802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

28/05/2019



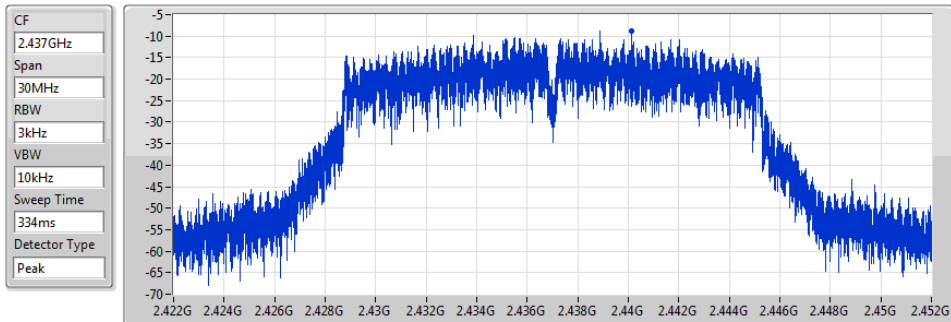
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-9.76	-9.76	-9.76

802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

28/05/2019



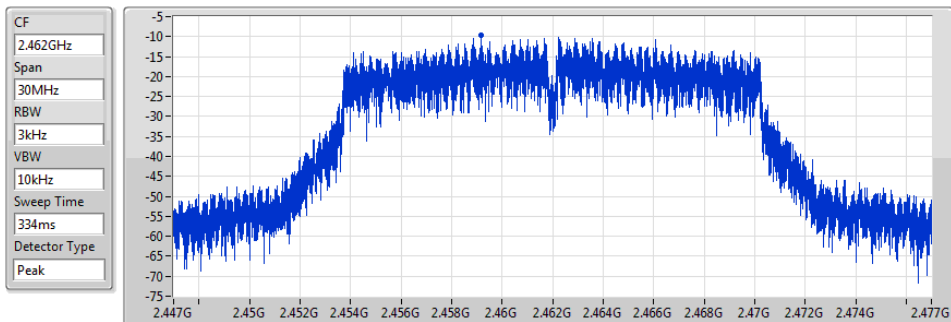
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-8.71	-8.71	-8.71

802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

28/05/2019



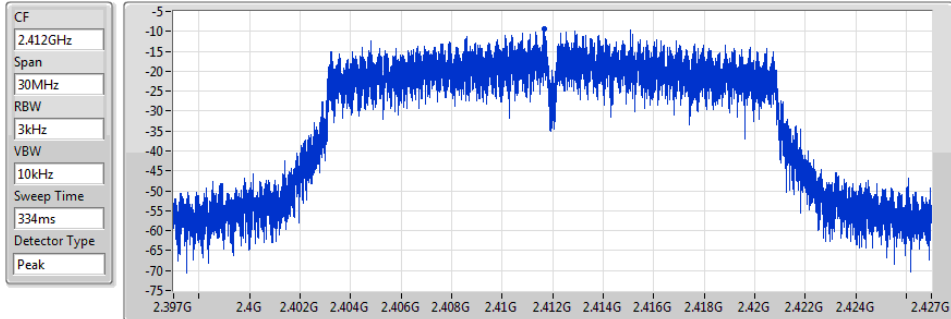
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-9.69	-9.69	-9.69

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2412MHz

28/05/2019



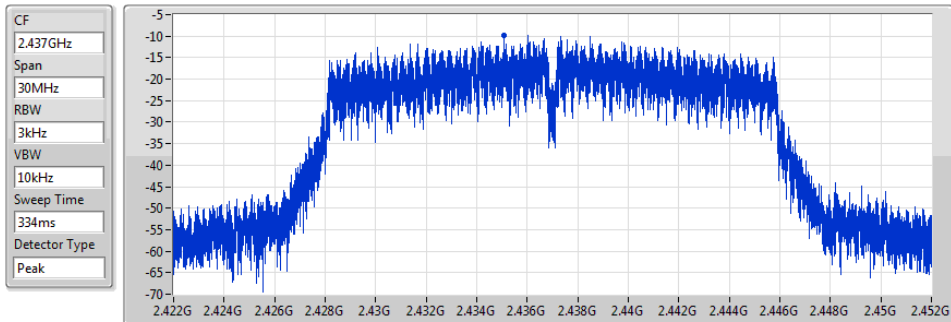
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-9.30	-9.30	-9.30

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

28/05/2019



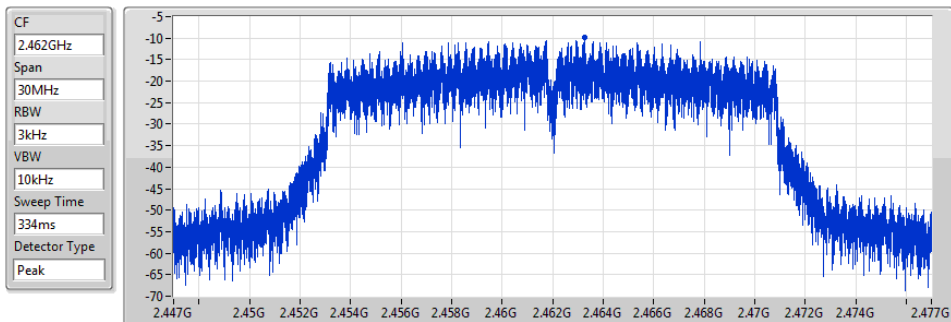
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-9.73	-9.73	-9.73

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2462MHz

28/05/2019



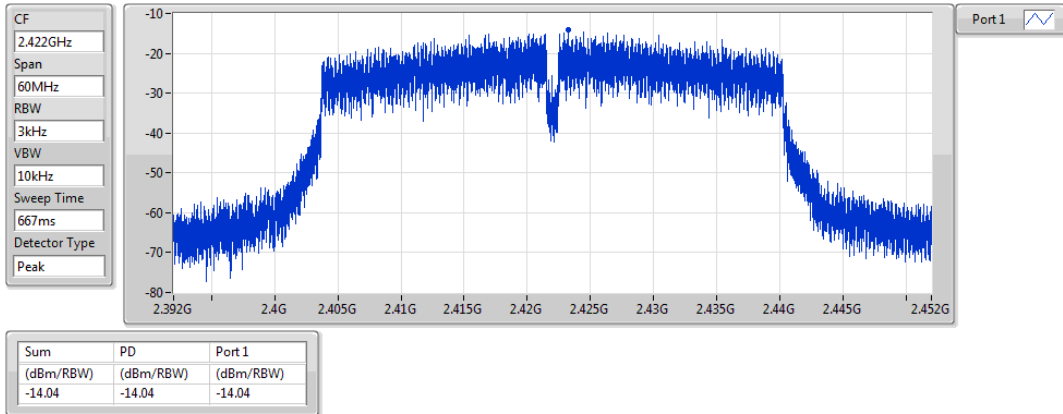
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-9.91	-9.91	-9.91

802.11n HT40_Nss1,(MCS0)_1TX

PSD

2422MHz

28/05/2019

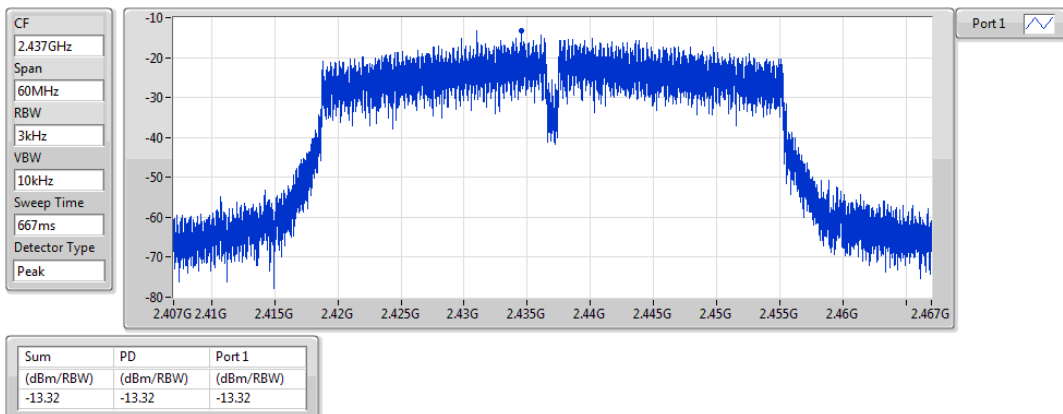


802.11n HT40_Nss1,(MCS0)_1TX

PSD

2437MHz

28/05/2019

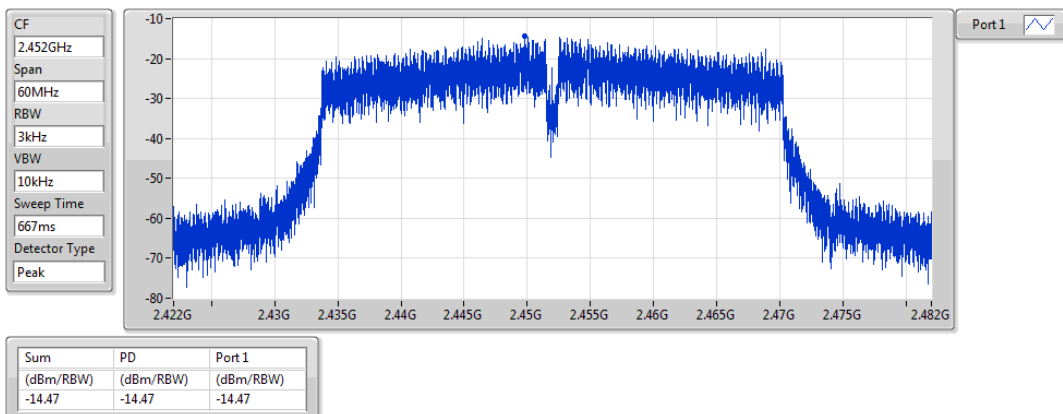


802.11n HT40_Nss1,(MCS0)_1TX

PSD

2452MHz

28/05/2019



**Summary**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.43799G	8.24	-21.76	2.05885G	-53.84	2.399G	-36.37	2.49098G	-48.69	23.37326G	-39.79	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43549G	3.09	-26.91	2.30816G	-53.61	2.39952G	-30.56	2.49002G	-49.08	23.44631G	-39.78	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.41098G	2.75	-27.25	2.30699G	-53.65	2.39892G	-28.93	2.49538G	-48.40	24.79771G	-39.87	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.42321G	-2.10	-32.10	2.30426G	-53.90	2.39948G	-37.79	2.49198G	-48.93	24.79246G	-40.00	1

Result

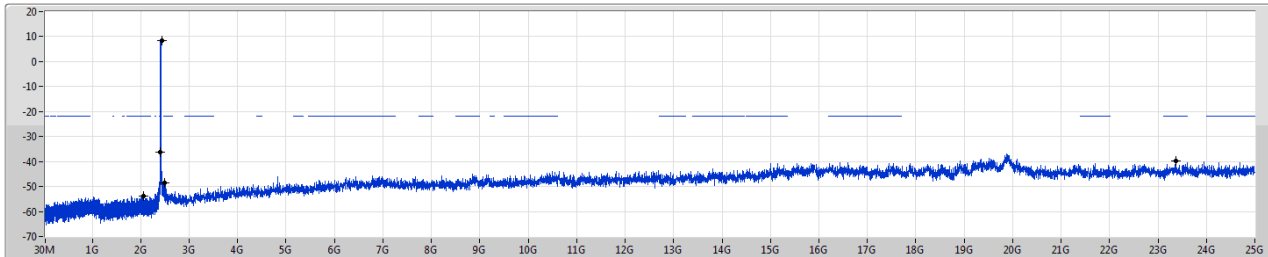
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43799G	8.24	-21.76	2.05885G	-53.84	2.399G	-36.37	2.49098G	-48.69	23.37326G	-39.79	1
2437MHz	Pass	2.43799G	8.24	-21.76	2.30758G	-53.54	2.397G	-49.66	2.49336G	-49.01	24.89886G	-40.33	1
2462MHz	Pass	2.43799G	8.24	-21.76	2.13137G	-53.78	2.39374G	-51.46	2.48702G	-48.93	16.27069G	-40.40	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43549G	3.09	-26.91	2.30816G	-53.61	2.39952G	-30.56	2.49002G	-49.08	23.44631G	-39.78	1
2437MHz	Pass	2.43549G	3.09	-26.91	2.30379G	-53.66	2.39778G	-48.80	2.48386G	-48.05	24.74433G	-40.21	1
2462MHz	Pass	2.43549G	3.09	-26.91	2.014G	-53.72	2.39104G	-51.13	2.48394G	-43.08	24.57014G	-40.62	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41098G	2.75	-27.25	2.30699G	-53.65	2.39892G	-28.93	2.49538G	-48.40	24.79771G	-39.87	1
2437MHz	Pass	2.41098G	2.75	-27.25	2.30233G	-53.30	2.39234G	-49.33	2.4987G	-47.93	23.39574G	-40.44	1
2462MHz	Pass	2.41098G	2.75	-27.25	2.30292G	-53.56	2.3981G	-49.45	2.48358G	-38.90	23.48003G	-40.50	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42321G	-2.10	-32.10	2.30426G	-53.90	2.39948G	-37.79	2.49198G	-48.93	24.79246G	-40.00	1
2437MHz	Pass	2.42321G	-2.10	-32.10	2.16657G	-54.41	2.3976G	-47.15	2.48726G	-48.70	24.78966G	-39.93	1
2452MHz	Pass	2.42321G	-2.10	-32.10	2.3097G	-53.10	2.3992G	-49.79	2.4845G	-42.95	15.26256G	-39.80	1

802.11b_Nss1,(1Mbps)_1TX

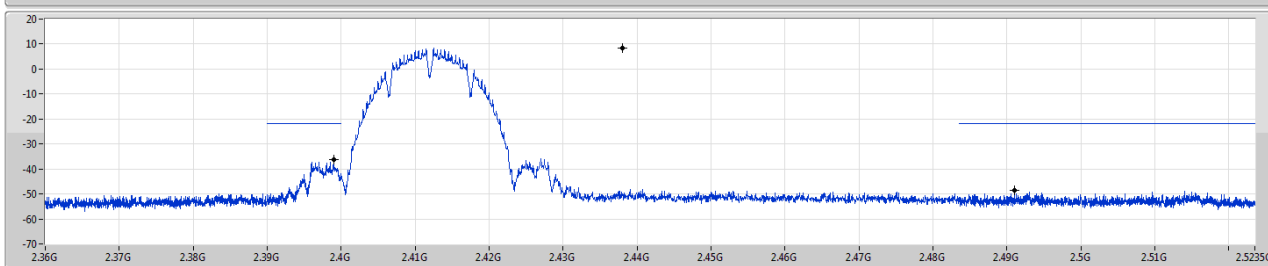
CSE NdB

2412MHz

31/05/2019



Port1



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

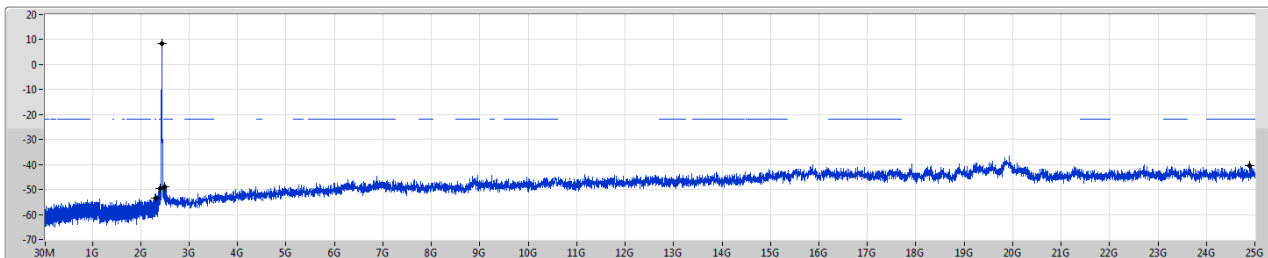
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43799G	8.24	-21.76	2.05885G	-53.84	2.399G	-36.37	2.49098G	-48.69	2.37326G	-39.79	1

802.11b_Nss1,(1Mbps)_1TX

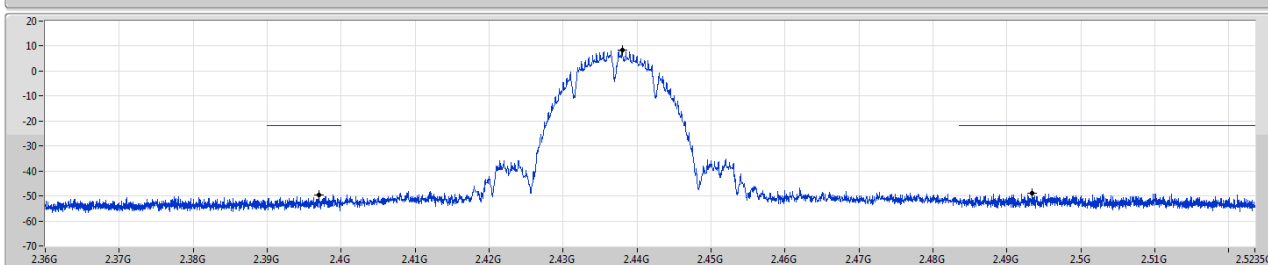
CSE NdB

2437MHz

31/05/2019



Port1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43799G	8.24	-21.76	2.30758G	-53.54	2.397G	-49.66	2.49336G	-49.01	2.48986G	-40.33	1

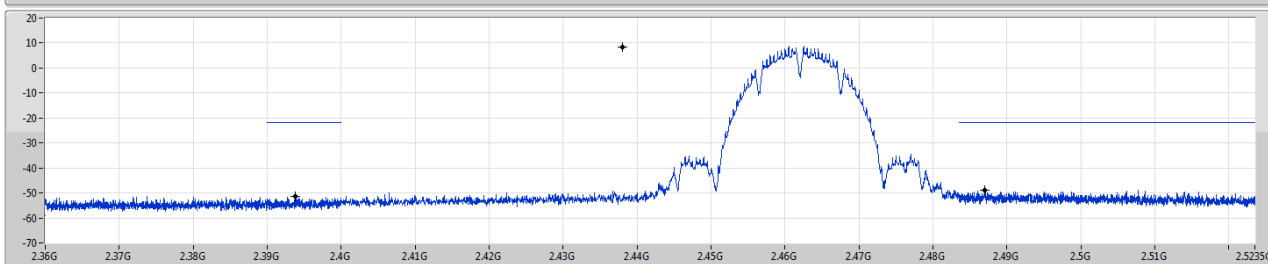
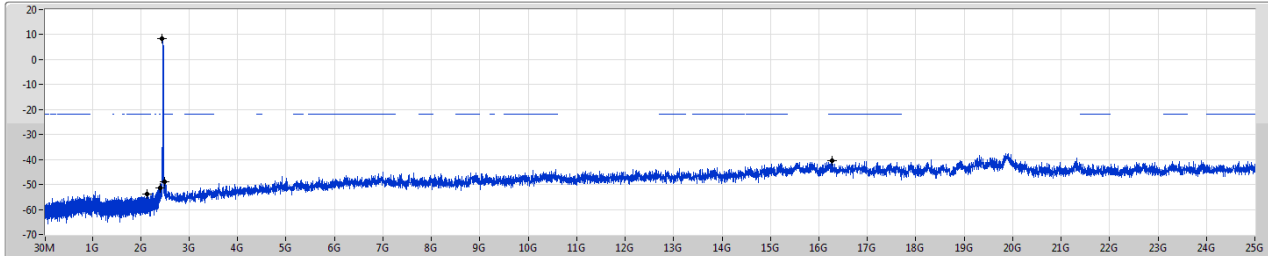
802.11b_Nss1,(1Mbps)_1TX

2462MHz

CSE NdB

31/05/2019

Port1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43799G	8.24	-21.76	2.13137G	-53.78	2.39374G	-51.46	2.48702G	-48.93	16.27069G	-40.40	1

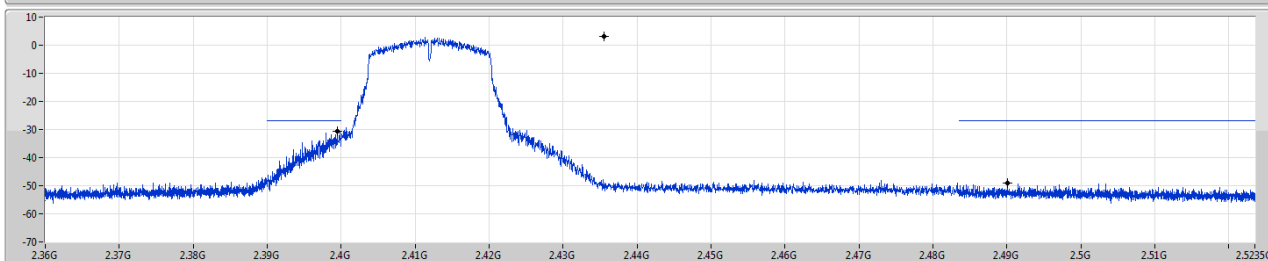
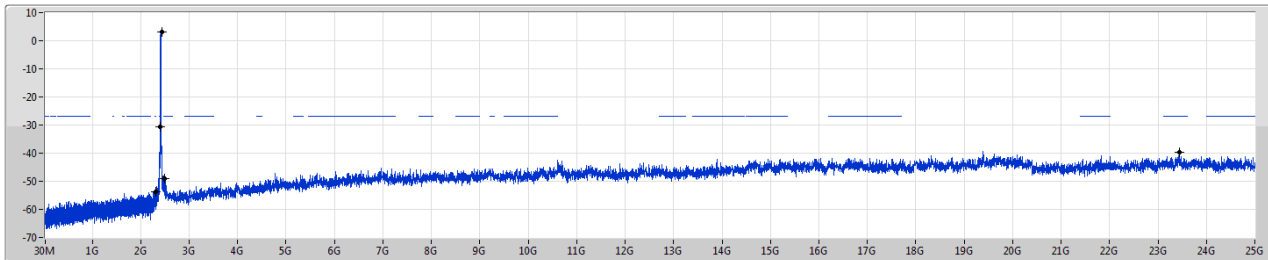
802.11g_Nss1,(6Mbps)_1TX

2412MHz

CSE NdB

28/05/2019

Port1



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

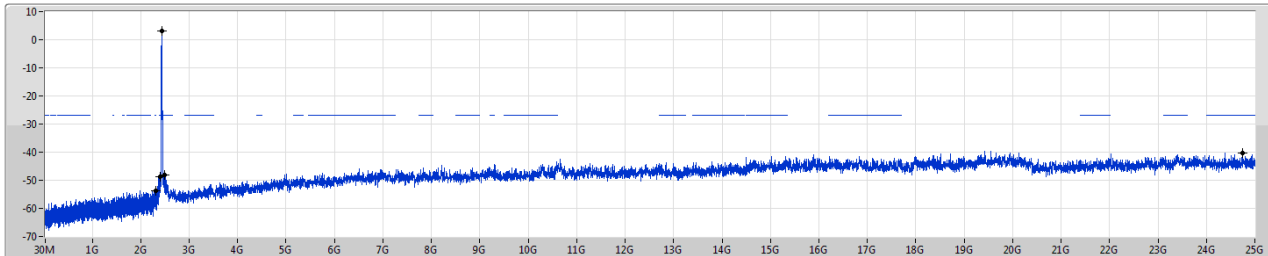
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43549G	3.09	-26.91	2.30816G	-53.61	2.39952G	-30.56	2.49002G	-49.08	23.44631G	-39.78	1

802.11g_Nss1,(6Mbps)_1TX

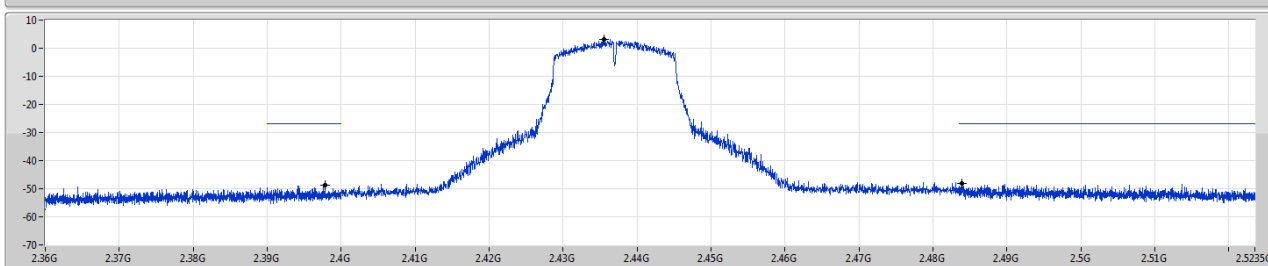
CSE NdB

2437MHz

28/05/2019



Port1



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

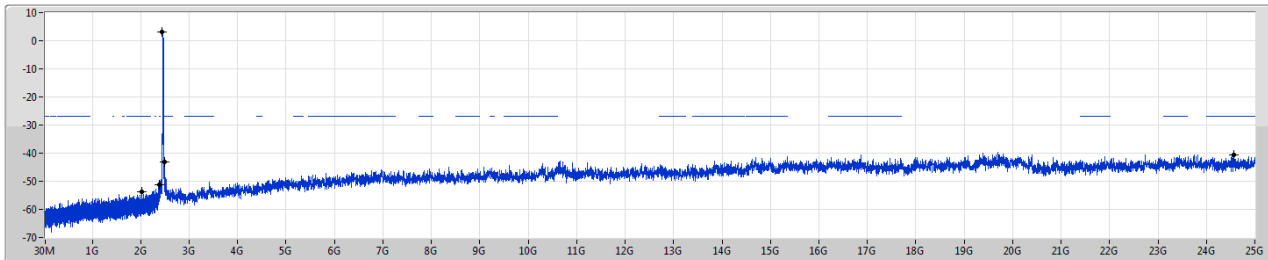
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43549G	3.09	-26.91	2.30379G	-53.66	2.39778G	-48.80	2.48386G	-48.05	2.474433G	-40.21	1

802.11g_Nss1,(6Mbps)_1TX

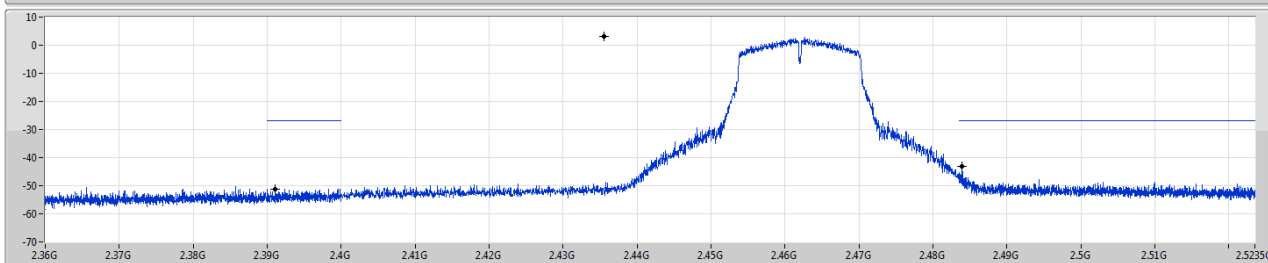
CSE NdB

2462MHz

28/05/2019



Port1



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

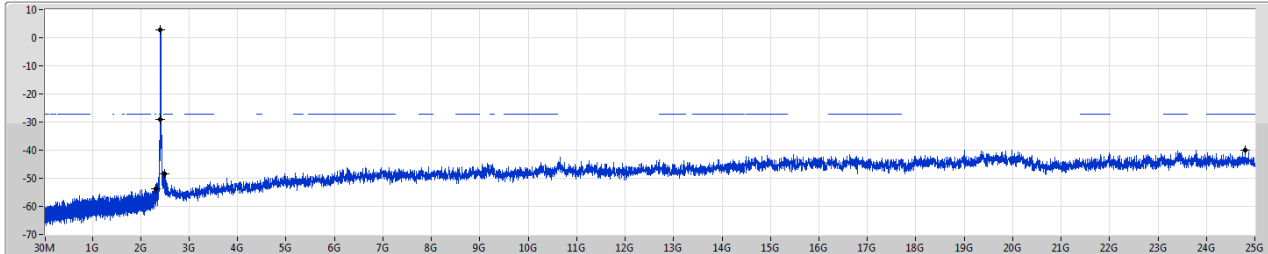
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43549G	3.09	-26.91	2.014G	-53.72	2.39104G	-51.13	2.48394G	-43.08	2.457014G	-40.62	1

802.11n HT20_Nss1,(MCS0)_1TX

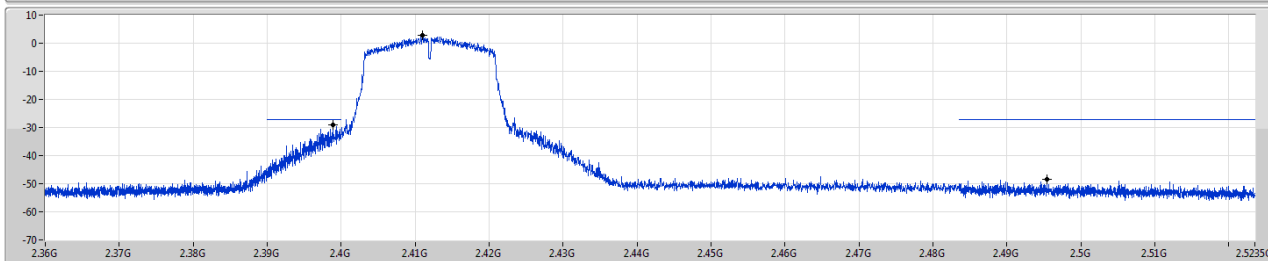
CSE NdB

2412MHz

28/05/2019



Port1



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

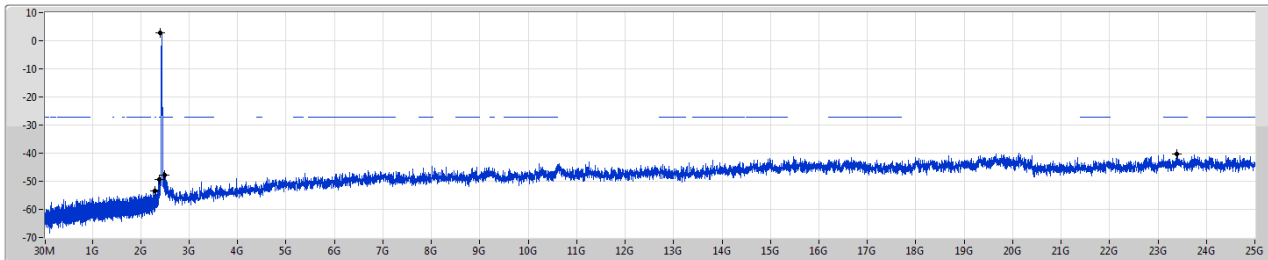
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41098G	2.75	-27.25	2.30699G	-53.65	2.39892G	-28.93	2.49538G	-48.40	2.47971G	-39.87	1

802.11n HT20_Nss1,(MCS0)_1TX

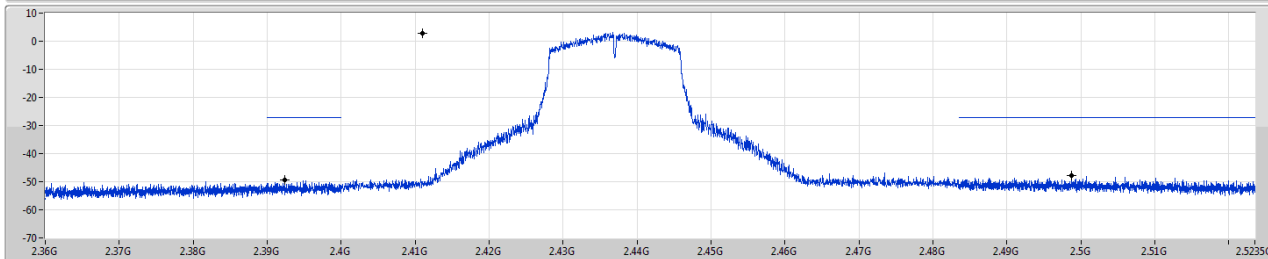
CSE NdB

2437MHz

28/05/2019



Port1



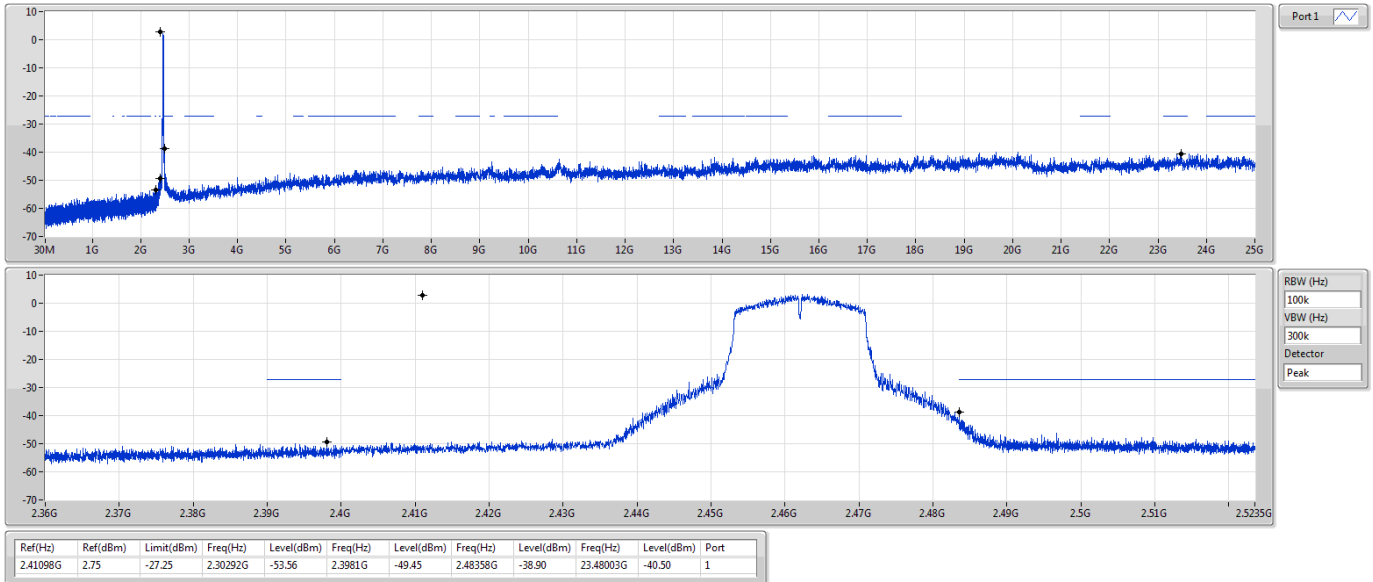
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41098G	2.75	-27.25	2.30233G	-53.30	2.39234G	-49.33	2.4987G	-47.93	2.39574G	-40.44	1

802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

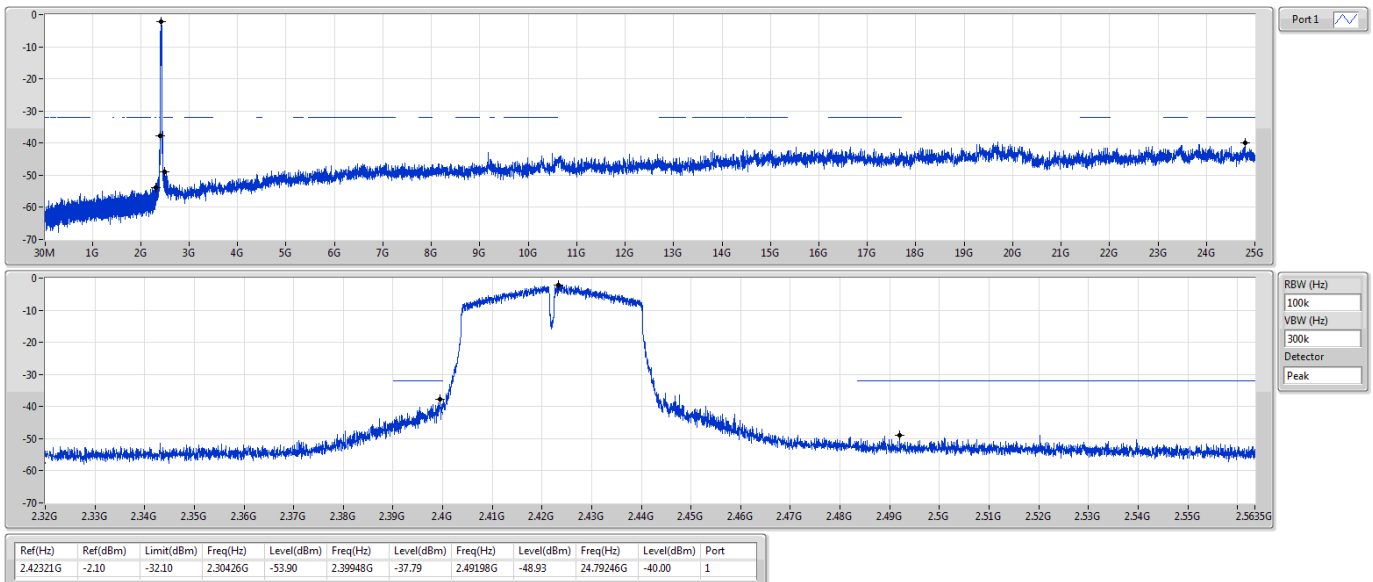
2462MHz



802.11n HT40_Nss1,(MCS0)_1TX

CSE NdB

2422MHz

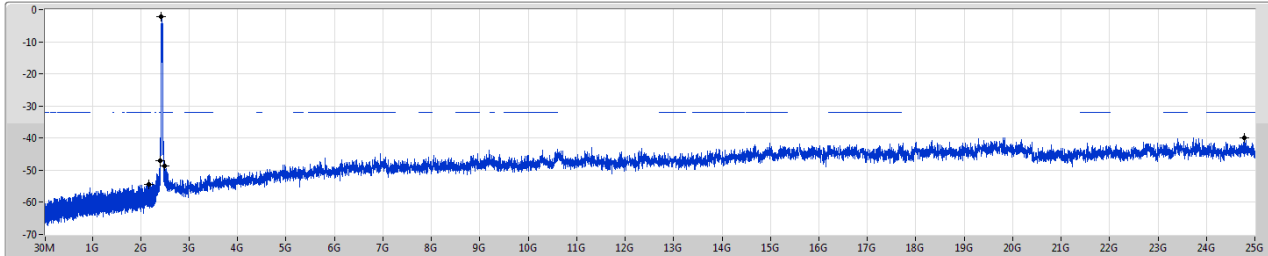


802.11n HT40_Nss1,(MCS0)_1TX

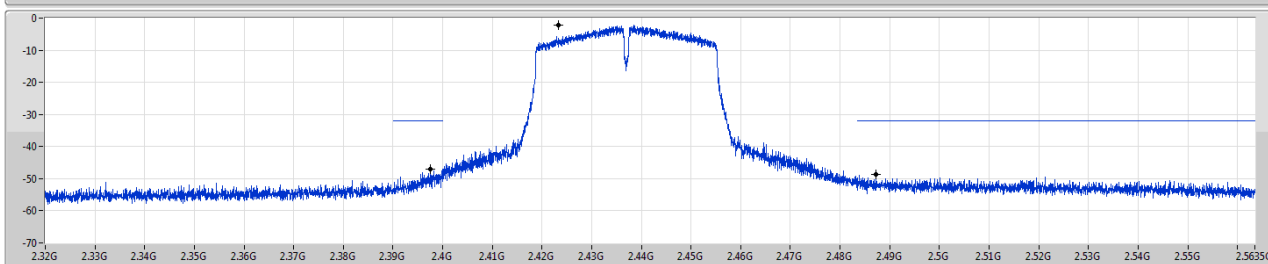
CSE NdB

2437MHz

28/05/2019



Port1



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

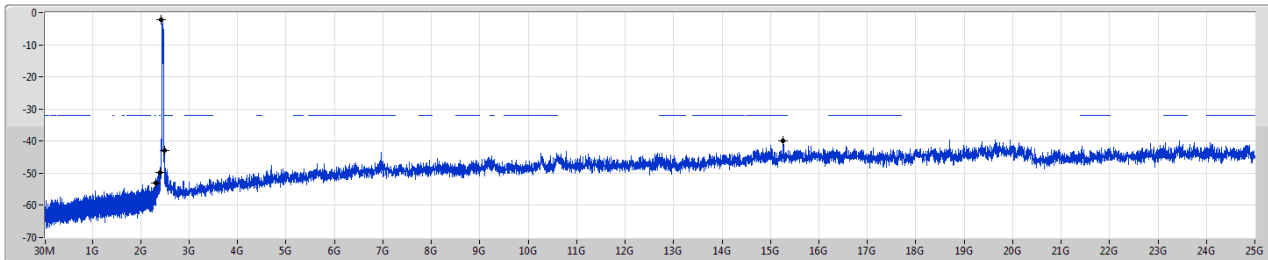
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42321G	-2.10	-32.10	2.16657G	-54.41	2.3976G	-47.15	2.48726G	-48.70	2.478966G	-39.93	1

802.11n HT40_Nss1,(MCS0)_1TX

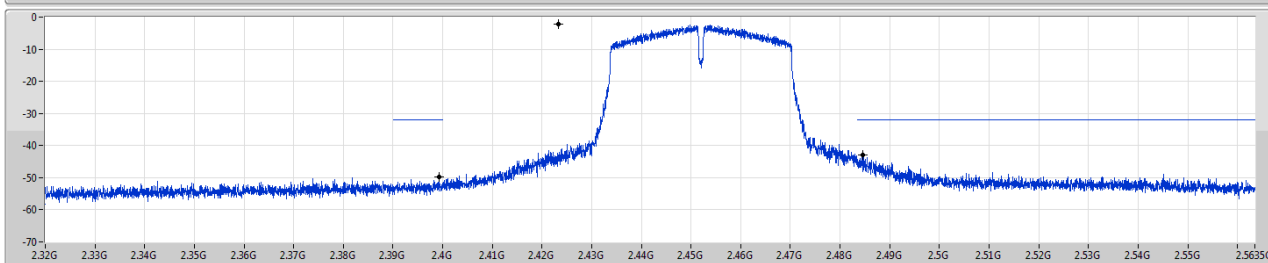
CSE NdB

2452MHz

28/05/2019



Port1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42321G	-2.10	-32.10	2.3097G	-53.10	2.3992G	-49.79	2.4845G	-42.95	15.26256G	-39.80	1



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	PK	31.94M	35.35	40.00	-4.65	-3.92	3	Horizontal	0	1.00	-

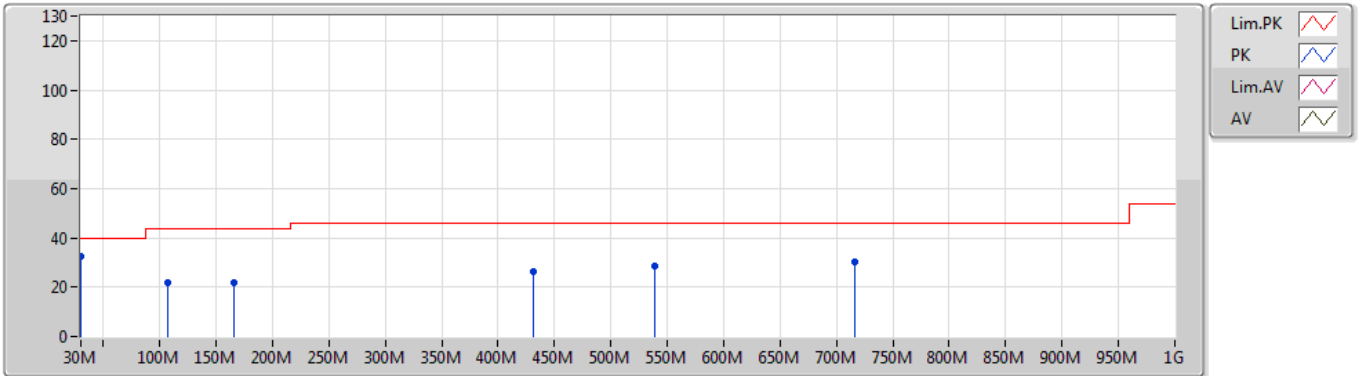
**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	30M	32.77	40.00	-7.23	-2.85	3	Vertical	360	1.00	-
2437MHz	Pass	PK	107.6M	22.10	43.50	-21.40	-8.63	3	Vertical	360	1.00	-
2437MHz	Pass	PK	165.8M	21.69	43.50	-21.81	-9.81	3	Vertical	360	1.00	-
2437MHz	Pass	PK	431.58M	26.47	46.00	-19.53	-2.35	3	Vertical	360	1.00	-
2437MHz	Pass	PK	538.28M	28.57	46.00	-17.43	-0.85	3	Vertical	360	1.00	-
2437MHz	Pass	PK	716.76M	30.50	46.00	-15.50	0.64	3	Vertical	360	1.00	-
2437MHz	Pass	PK	31.94M	35.35	40.00	-4.65	-3.92	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	109.54M	19.26	43.50	-24.24	-8.47	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	266.68M	21.10	46.00	-24.90	-6.07	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	353.98M	24.81	46.00	-21.19	-4.38	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	470.38M	26.99	46.00	-19.01	-1.71	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	625.58M	28.41	46.00	-17.59	0.29	3	Horizontal	0	1.00	-

802.11n HT40_Nss1,(MCS0)_1TX

29/05/2019

2437MHz_DC Power supply

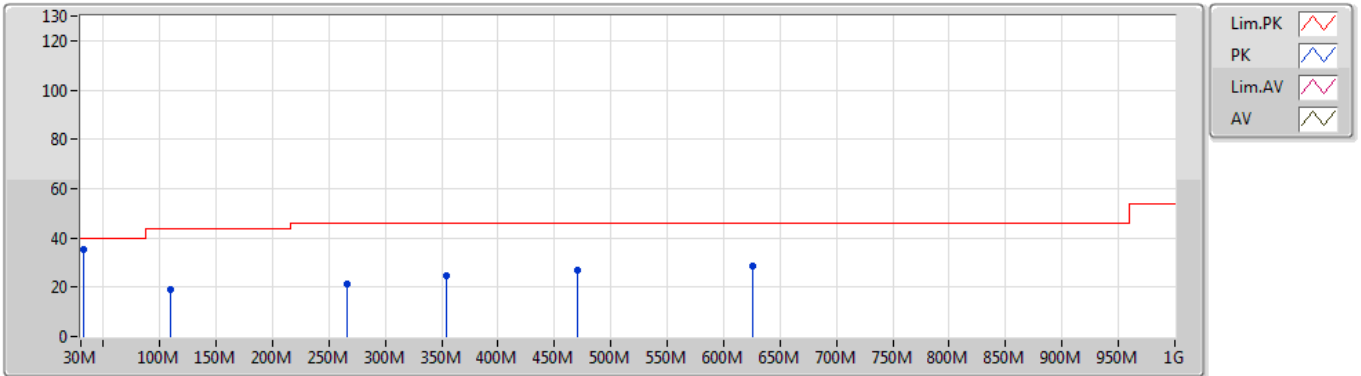


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	30M	32.77	40.00	-7.23	-2.85	3	Vertical	360	1.00	-				
PK	107.6M	22.10	43.50	-21.40	-8.63	3	Vertical	360	1.00	-				
PK	165.8M	21.69	43.50	-21.81	-9.81	3	Vertical	360	1.00	-				
PK	431.58M	26.47	46.00	-19.53	-2.35	3	Vertical	360	1.00	-				
PK	538.28M	28.57	46.00	-17.43	-0.85	3	Vertical	360	1.00	-				
PK	716.76M	30.50	46.00	-15.50	0.64	3	Vertical	360	1.00	-				

802.11n HT40_Nss1,(MCS0)_1TX

29/05/2019

2437MHz_DC Power supply



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	31.94M	35.35	40.00	-4.65	-3.92	3	Horizontal	0	1.00	-				
PK	109.54M	19.26	43.50	-24.24	-8.47	3	Horizontal	0	1.00	-				
PK	266.68M	21.10	46.00	-24.90	-6.07	3	Horizontal	0	1.00	-				
PK	353.98M	24.81	46.00	-21.19	-4.38	3	Horizontal	0	1.00	-				
PK	470.38M	26.99	46.00	-19.01	-1.71	3	Horizontal	0	1.00	-				
PK	625.58M	28.41	46.00	-17.59	0.29	3	Horizontal	0	1.00	-				

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	2.4878G	52.67	54.00	-1.33	32.20	3	Horizontal	130	2.24	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	52.76	54.00	-1.24	32.19	3	Horizontal	57	1.38	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.39G	52.78	54.00	-1.22	31.86	3	Horizontal	53	1.36	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	52.88	54.00	-1.12	32.19	3	Horizontal	51	1.18	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3892G	44.75	54.00	-9.25	31.91	3	Vertical	341	1.55	-
2412MHz	Pass	AV	2.4138G	90.00	Inf	-Inf	32.01	3	Vertical	341	1.55	-
2412MHz	Pass	PK	2.3636G	56.96	74.00	-17.04	31.81	3	Vertical	341	1.55	-
2412MHz	Pass	PK	2.413G	93.65	Inf	-Inf	32.01	3	Vertical	341	1.55	-
2412MHz	Pass	AV	2.3892G	45.28	54.00	-8.72	31.91	3	Horizontal	299	1.00	-
2412MHz	Pass	AV	2.4112G	98.71	Inf	-Inf	31.99	3	Horizontal	299	1.00	-
2412MHz	Pass	PK	2.3686G	56.58	74.00	-17.42	31.82	3	Horizontal	299	1.00	-
2412MHz	Pass	PK	2.413G	102.49	Inf	-Inf	32.01	3	Horizontal	299	1.00	-
2412MHz	Pass	AV	4.824G	42.53	54.00	-11.47	3.53	3	Vertical	323	2.96	-
2412MHz	Pass	PK	4.82418G	47.55	74.00	-26.45	3.53	3	Vertical	323	2.96	-
2412MHz	Pass	AV	4.824G	43.24	54.00	-10.76	3.53	3	Horizontal	292	1.01	-
2412MHz	Pass	PK	4.82406G	47.94	74.00	-26.06	3.53	3	Horizontal	292	1.01	-
2417MHz	Pass	AV	2.3878G	44.86	54.00	-9.14	31.85	3	Vertical	324	1.47	-
2417MHz	Pass	AV	2.4162G	91.85	Inf	-Inf	31.95	3	Vertical	324	1.47	-
2417MHz	Pass	PK	2.3774G	56.35	74.00	-17.65	31.81	3	Vertical	324	1.47	-
2417MHz	Pass	PK	2.418G	95.75	Inf	-Inf	31.95	3	Vertical	324	1.47	-
2417MHz	Pass	AV	2.3896G	45.46	54.00	-8.54	31.86	3	Horizontal	55	1.10	-
2417MHz	Pass	AV	2.4162G	102.74	Inf	-Inf	31.95	3	Horizontal	55	1.10	-
2417MHz	Pass	PK	2.3706G	57.53	74.00	-16.47	31.79	3	Horizontal	55	1.10	-
2417MHz	Pass	PK	2.416G	106.45	Inf	-Inf	31.95	3	Horizontal	55	1.10	-
2417MHz	Pass	AV	4.83398G	45.43	54.00	-8.57	3.51	3	Vertical	156	2.63	-
2417MHz	Pass	PK	4.83394G	49.60	74.00	-24.40	3.51	3	Vertical	156	2.63	-
2417MHz	Pass	AV	4.834G	50.96	54.00	-3.04	3.51	3	Horizontal	102	2.36	-
2417MHz	Pass	PK	4.83399G	53.52	74.00	-20.48	3.51	3	Horizontal	102	2.36	-
2437MHz	Pass	AV	2.3842G	44.91	54.00	-9.09	31.83	3	Vertical	95	1.51	-
2437MHz	Pass	AV	2.4362G	96.90	Inf	-Inf	32.02	3	Vertical	95	1.51	-
2437MHz	Pass	AV	2.4858G	45.52	54.00	-8.48	32.20	3	Vertical	95	1.51	-
2437MHz	Pass	PK	2.3486G	56.32	74.00	-17.68	31.71	3	Vertical	95	1.51	-
2437MHz	Pass	PK	2.4362G	100.53	Inf	-Inf	32.02	3	Vertical	95	1.51	-
2437MHz	Pass	PK	2.4838G	56.55	74.00	-17.45	32.19	3	Vertical	95	1.51	-
2437MHz	Pass	AV	2.3894G	45.60	54.00	-8.40	31.85	3	Horizontal	52	1.20	-
2437MHz	Pass	AV	2.4362G	105.47	Inf	-Inf	32.02	3	Horizontal	52	1.20	-
2437MHz	Pass	AV	2.4858G	46.52	54.00	-7.48	32.20	3	Horizontal	52	1.20	-
2437MHz	Pass	PK	2.3826G	56.61	74.00	-17.39	31.83	3	Horizontal	52	1.20	-
2437MHz	Pass	PK	2.4378G	109.24	Inf	-Inf	32.02	3	Horizontal	52	1.20	-
2437MHz	Pass	PK	2.4854G	57.73	74.00	-16.27	32.19	3	Horizontal	52	1.20	-
2437MHz	Pass	AV	4.87402G	37.13	54.00	-16.87	3.61	3	Vertical	185	1.76	-
2437MHz	Pass	PK	4.87416G	45.23	74.00	-28.77	3.61	3	Vertical	185	1.76	-
2437MHz	Pass	AV	4.874G	46.33	54.00	-7.67	3.61	3	Horizontal	134	1.11	-
2437MHz	Pass	PK	4.87396G	50.04	74.00	-23.96	3.61	3	Horizontal	134	1.11	-
2457MHz	Pass	AV	2.4588G	95.38	Inf	-Inf	32.10	3	Vertical	98	1.75	-
2457MHz	Pass	AV	2.4835G	48.02	54.00	-5.98	32.19	3	Vertical	98	1.75	-
2457MHz	Pass	PK	2.458G	99.39	Inf	-Inf	32.10	3	Vertical	98	1.75	-
2457MHz	Pass	PK	2.4842G	58.24	74.00	-15.76	32.19	3	Vertical	98	1.75	-
2457MHz	Pass	AV	2.4562G	104.61	Inf	-Inf	32.09	3	Horizontal	55	1.38	-
2457MHz	Pass	AV	2.4835G	52.64	54.00	-1.36	32.19	3	Horizontal	55	1.38	-
2457MHz	Pass	PK	2.458G	108.43	Inf	-Inf	32.10	3	Horizontal	55	1.38	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2457MHz	Pass	PK	2.484G	60.94	74.00	-13.06	32.19	3	Horizontal	55	1.38	-
2457MHz	Pass	AV	4.914G	47.26	54.00	-6.74	3.71	3	Vertical	212	2.98	-
2457MHz	Pass	PK	4.91408G	50.94	74.00	-23.06	3.71	3	Vertical	212	2.98	-
2457MHz	Pass	AV	4.91398G	49.52	54.00	-4.48	3.71	3	Horizontal	137	1.21	-
2457MHz	Pass	PK	4.91402G	52.89	74.00	-21.11	3.71	3	Horizontal	137	1.21	-
2462MHz	Pass	AV	2.4612G	96.12	Inf	-Inf	32.11	3	Vertical	97	1.73	-
2462MHz	Pass	AV	2.4862G	47.66	54.00	-6.34	32.20	3	Vertical	97	1.73	-
2462MHz	Pass	PK	2.463G	100.25	Inf	-Inf	32.11	3	Vertical	97	1.73	-
2462MHz	Pass	PK	2.4874G	58.14	74.00	-15.86	32.20	3	Vertical	97	1.73	-
2462MHz	Pass	AV	2.4612G	105.07	Inf	-Inf	32.11	3	Horizontal	130	2.24	-
2462MHz	Pass	AV	2.4878G	52.67	54.00	-1.33	32.20	3	Horizontal	130	2.24	-
2462MHz	Pass	PK	2.463G	108.93	Inf	-Inf	32.11	3	Horizontal	130	2.24	-
2462MHz	Pass	PK	2.4866G	61.10	74.00	-12.90	32.20	3	Horizontal	130	2.24	-
2462MHz	Pass	AV	4.92398G	47.51	54.00	-6.49	3.73	3	Vertical	207	2.96	-
2462MHz	Pass	PK	4.92408G	51.22	74.00	-22.78	3.73	3	Vertical	207	2.96	-
2462MHz	Pass	AV	4.92398G	50.56	54.00	-3.44	3.73	3	Horizontal	135	1.13	-
2462MHz	Pass	PK	4.92404G	53.36	74.00	-20.64	3.73	3	Horizontal	135	1.13	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	47.36	54.00	-6.64	31.86	3	Vertical	306	2.79	-
2412MHz	Pass	AV	2.4128G	89.80	Inf	-Inf	31.93	3	Vertical	306	2.79	-
2412MHz	Pass	PK	2.39G	64.30	74.00	-9.70	31.86	3	Vertical	306	2.79	-
2412MHz	Pass	PK	2.412G	99.84	Inf	-Inf	31.93	3	Vertical	306	2.79	-
2412MHz	Pass	AV	2.39G	52.04	54.00	-1.96	31.86	3	Horizontal	56	1.10	-
2412MHz	Pass	AV	2.413G	98.78	Inf	-Inf	31.94	3	Horizontal	56	1.10	-
2412MHz	Pass	PK	2.39G	71.07	74.00	-2.93	31.86	3	Horizontal	56	1.10	-
2412MHz	Pass	PK	2.4138G	108.50	Inf	-Inf	31.94	3	Horizontal	56	1.10	-
2412MHz	Pass	AV	4.82382G	32.80	54.00	-21.20	3.49	3	Vertical	156	2.50	-
2412MHz	Pass	PK	4.82488G	47.15	74.00	-26.85	3.49	3	Vertical	156	2.50	-
2412MHz	Pass	AV	4.82404G	37.08	54.00	-16.92	3.49	3	Horizontal	98	2.50	-
2412MHz	Pass	PK	4.8271G	50.39	74.00	-23.61	3.50	3	Horizontal	98	2.50	-
2417MHz	Pass	AV	2.3898G	45.66	54.00	-8.34	31.86	3	Vertical	324	1.48	-
2417MHz	Pass	AV	2.418G	90.01	Inf	-Inf	31.95	3	Vertical	324	1.48	-
2417MHz	Pass	PK	2.3898G	62.09	74.00	-11.91	31.86	3	Vertical	324	1.48	-
2417MHz	Pass	PK	2.417G	99.73	Inf	-Inf	31.95	3	Vertical	324	1.48	-
2417MHz	Pass	AV	2.39G	52.21	54.00	-1.79	31.86	3	Horizontal	57	1.09	-
2417MHz	Pass	AV	2.416G	100.96	Inf	-Inf	31.95	3	Horizontal	57	1.09	-
2417MHz	Pass	PK	2.3896G	70.68	74.00	-3.32	31.86	3	Horizontal	57	1.09	-
2417MHz	Pass	PK	2.414G	110.91	Inf	-Inf	31.94	3	Horizontal	57	1.09	-
2437MHz	Pass	AV	2.3894G	44.92	54.00	-9.08	31.85	3	Vertical	96	1.49	-
2437MHz	Pass	AV	2.4362G	92.74	Inf	-Inf	32.02	3	Vertical	96	1.49	-
2437MHz	Pass	AV	2.4842G	45.54	54.00	-8.46	32.19	3	Vertical	96	1.49	-
2437MHz	Pass	PK	2.3574G	56.00	74.00	-18.00	31.74	3	Vertical	96	1.49	-
2437MHz	Pass	PK	2.4362G	102.90	Inf	-Inf	32.02	3	Vertical	96	1.49	-
2437MHz	Pass	PK	2.4838G	57.56	74.00	-16.44	32.19	3	Vertical	96	1.49	-
2437MHz	Pass	AV	2.3898G	45.71	54.00	-8.29	31.86	3	Horizontal	49	1.15	-
2437MHz	Pass	AV	2.4382G	101.88	Inf	-Inf	32.02	3	Horizontal	49	1.15	-
2437MHz	Pass	AV	2.4838G	47.17	54.00	-6.83	32.19	3	Horizontal	49	1.15	-
2437MHz	Pass	PK	2.3858G	59.28	74.00	-14.72	31.84	3	Horizontal	49	1.15	-
2437MHz	Pass	PK	2.4354G	112.20	Inf	-Inf	32.01	3	Horizontal	49	1.15	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.4838G	63.48	74.00	-10.52	32.19	3	Horizontal	49	1.15	-
2437MHz	Pass	AV	4.87413G	32.84	54.00	-21.16	3.61	3	Vertical	208	2.87	-
2437MHz	Pass	PK	4.87373G	47.62	74.00	-26.38	3.61	3	Vertical	208	2.87	-
2437MHz	Pass	AV	4.87379G	35.37	54.00	-18.63	3.61	3	Horizontal	134	1.13	-
2437MHz	Pass	PK	4.87421G	49.70	74.00	-24.30	3.61	3	Horizontal	134	1.13	-
2457MHz	Pass	AV	2.4582G	90.42	Inf	-Inf	32.10	3	Vertical	96	1.73	-
2457MHz	Pass	AV	2.4835G	48.07	54.00	-5.93	32.19	3	Vertical	96	1.73	-
2457MHz	Pass	PK	2.4592G	100.16	Inf	-Inf	32.10	3	Vertical	96	1.73	-
2457MHz	Pass	PK	2.485G	63.35	74.00	-10.65	32.19	3	Vertical	96	1.73	-
2457MHz	Pass	AV	2.4582G	99.45	Inf	-Inf	32.10	3	Horizontal	57	1.38	-
2457MHz	Pass	AV	2.4835G	52.76	54.00	-1.24	32.19	3	Horizontal	57	1.38	-
2457MHz	Pass	PK	2.4568G	109.47	Inf	-Inf	32.10	3	Horizontal	57	1.38	-
2457MHz	Pass	PK	2.4836G	70.42	74.00	-3.58	32.19	3	Horizontal	57	1.38	-
2462MHz	Pass	AV	2.463G	88.77	Inf	-Inf	32.11	3	Vertical	97	1.73	-
2462MHz	Pass	AV	2.4835G	47.97	54.00	-6.03	32.19	3	Vertical	97	1.73	-
2462MHz	Pass	PK	2.4628G	98.36	Inf	-Inf	32.11	3	Vertical	97	1.73	-
2462MHz	Pass	PK	2.4835G	65.33	74.00	-8.67	32.19	3	Vertical	97	1.73	-
2462MHz	Pass	AV	2.4628G	97.52	Inf	-Inf	32.11	3	Horizontal	130	2.24	-
2462MHz	Pass	AV	2.4835G	52.08	54.00	-1.92	32.19	3	Horizontal	130	2.24	-
2462MHz	Pass	PK	2.4634G	107.68	Inf	-Inf	32.11	3	Horizontal	130	2.24	-
2462MHz	Pass	PK	2.4836G	68.70	74.00	-5.30	32.19	3	Horizontal	130	2.24	-
2462MHz	Pass	AV	4.9239G	34.41	54.00	-19.59	3.73	3	Vertical	193	2.50	-
2462MHz	Pass	PK	4.92246G	46.97	74.00	-27.03	3.73	3	Vertical	193	2.50	-
2462MHz	Pass	AV	4.92398G	35.12	54.00	-18.88	3.73	3	Horizontal	136	1.01	-
2462MHz	Pass	PK	4.92278G	47.21	74.00	-26.79	3.73	3	Horizontal	136	1.01	-
802.11n HT20_Nss1_(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	46.97	54.00	-7.03	31.86	3	Vertical	300	2.80	-
2412MHz	Pass	AV	2.4112G	88.21	Inf	-Inf	31.93	3	Vertical	300	2.80	-
2412MHz	Pass	PK	2.39G	61.82	74.00	-12.18	31.86	3	Vertical	300	2.80	-
2412MHz	Pass	PK	2.4122G	97.99	Inf	-Inf	31.93	3	Vertical	300	2.80	-
2412MHz	Pass	AV	2.39G	52.45	54.00	-1.55	31.86	3	Horizontal	55	1.35	-
2412MHz	Pass	AV	2.4132G	97.99	Inf	-Inf	31.94	3	Horizontal	55	1.35	-
2412MHz	Pass	PK	2.3896G	70.45	74.00	-3.55	31.86	3	Horizontal	55	1.35	-
2412MHz	Pass	PK	2.412G	107.88	Inf	-Inf	31.93	3	Horizontal	55	1.35	-
2412MHz	Pass	AV	4.82404G	32.46	54.00	-21.54	3.49	3	Vertical	122	2.99	-
2412MHz	Pass	PK	4.82398G	46.66	74.00	-27.34	3.49	3	Vertical	122	2.99	-
2412MHz	Pass	AV	4.82416G	35.19	54.00	-18.81	3.49	3	Horizontal	99	2.37	-
2412MHz	Pass	PK	4.82426G	49.01	74.00	-24.99	3.49	3	Horizontal	99	2.37	-
2417MHz	Pass	AV	2.39G	45.40	54.00	-8.60	31.86	3	Vertical	324	1.46	-
2417MHz	Pass	AV	2.4178G	89.84	Inf	-Inf	31.95	3	Vertical	324	1.46	-
2417MHz	Pass	PK	2.3884G	58.78	74.00	-15.22	31.85	3	Vertical	324	1.46	-
2417MHz	Pass	PK	2.419G	99.98	Inf	-Inf	31.96	3	Vertical	324	1.46	-
2417MHz	Pass	AV	2.39G	52.78	54.00	-1.22	31.86	3	Horizontal	53	1.36	-
2417MHz	Pass	AV	2.4164G	100.77	Inf	-Inf	31.95	3	Horizontal	53	1.36	-
2417MHz	Pass	PK	2.3896G	71.68	74.00	-2.32	31.86	3	Horizontal	53	1.36	-
2417MHz	Pass	PK	2.414G	111.01	Inf	-Inf	31.94	3	Horizontal	53	1.36	-
2437MHz	Pass	AV	2.3886G	44.92	54.00	-9.08	31.85	3	Vertical	96	1.53	-
2437MHz	Pass	AV	2.4362G	92.60	Inf	-Inf	32.02	3	Vertical	96	1.53	-
2437MHz	Pass	AV	2.4835G	45.77	54.00	-8.23	32.19	3	Vertical	96	1.53	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.3522G	56.59	74.00	-17.41	31.72	3	Vertical	96	1.53	-
2437MHz	Pass	PK	2.4362G	102.61	Inf	-Inf	32.02	3	Vertical	96	1.53	-
2437MHz	Pass	PK	2.4842G	58.90	74.00	-15.10	32.19	3	Vertical	96	1.53	-
2437MHz	Pass	AV	2.3898G	46.20	54.00	-7.80	31.86	3	Horizontal	49	1.09	-
2437MHz	Pass	AV	2.4382G	101.40	Inf	-Inf	32.02	3	Horizontal	49	1.09	-
2437MHz	Pass	AV	2.4835G	47.87	54.00	-6.13	32.19	3	Horizontal	49	1.09	-
2437MHz	Pass	PK	2.3882G	61.33	74.00	-12.67	31.85	3	Horizontal	49	1.09	-
2437MHz	Pass	PK	2.4386G	111.57	Inf	-Inf	32.03	3	Horizontal	49	1.09	-
2437MHz	Pass	PK	2.487G	64.18	74.00	-9.82	32.20	3	Horizontal	49	1.09	-
2437MHz	Pass	AV	4.8717G	32.46	54.00	-21.54	3.61	3	Vertical	208	2.89	-
2437MHz	Pass	PK	4.87648G	46.92	74.00	-27.08	3.62	3	Vertical	208	2.89	-
2437MHz	Pass	AV	4.87392G	34.74	54.00	-19.26	3.61	3	Horizontal	133	1.21	-
2437MHz	Pass	PK	4.87794G	49.48	74.00	-24.52	3.62	3	Horizontal	133	1.21	-
2457MHz	Pass	AV	2.456G	93.67	Inf	-Inf	32.09	3	Vertical	176	2.87	-
2457MHz	Pass	AV	2.4835G	48.96	54.00	-5.04	32.19	3	Vertical	176	2.87	-
2457MHz	Pass	PK	2.4544G	103.91	Inf	-Inf	32.08	3	Vertical	176	2.87	-
2457MHz	Pass	PK	2.4835G	65.84	74.00	-8.16	32.19	3	Vertical	176	2.87	-
2457MHz	Pass	AV	2.456G	99.29	Inf	-Inf	32.09	3	Horizontal	137	1.01	-
2457MHz	Pass	AV	2.4836G	52.67	54.00	-1.33	32.19	3	Horizontal	137	1.01	-
2457MHz	Pass	PK	2.4554G	109.31	Inf	-Inf	32.08	3	Horizontal	137	1.01	-
2457MHz	Pass	PK	2.485G	72.58	74.00	-1.42	32.19	3	Horizontal	137	1.01	-
2462MHz	Pass	AV	2.4628G	87.22	Inf	-Inf	32.11	3	Vertical	99	1.73	-
2462MHz	Pass	AV	2.4835G	47.86	54.00	-6.14	32.19	3	Vertical	99	1.73	-
2462MHz	Pass	PK	2.4636G	96.89	Inf	-Inf	32.11	3	Vertical	99	1.73	-
2462MHz	Pass	PK	2.4838G	63.48	74.00	-10.52	32.19	3	Vertical	99	1.73	-
2462MHz	Pass	AV	2.4612G	96.44	Inf	-Inf	32.11	3	Horizontal	130	2.25	-
2462MHz	Pass	AV	2.4835G	52.07	54.00	-1.93	32.19	3	Horizontal	130	2.25	-
2462MHz	Pass	PK	2.4622G	106.44	Inf	-Inf	32.11	3	Horizontal	130	2.25	-
2462MHz	Pass	PK	2.4836G	70.63	74.00	-3.37	32.19	3	Horizontal	130	2.25	-
2462MHz	Pass	AV	4.92142G	33.54	54.00	-20.46	3.73	3	Vertical	79	2.09	-
2462MHz	Pass	PK	4.92148G	46.26	74.00	-27.74	3.73	3	Vertical	79	2.09	-
2462MHz	Pass	AV	4.9231G	34.65	54.00	-19.35	3.73	3	Horizontal	199	2.49	-
2462MHz	Pass	PK	4.91938G	46.83	74.00	-27.17	3.72	3	Horizontal	199	2.49	-
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.39G	45.76	54.00	-8.24	31.86	3	Vertical	97	1.79	-
2422MHz	Pass	AV	2.424G	83.95	Inf	-Inf	31.98	3	Vertical	97	1.79	-
2422MHz	Pass	AV	2.498G	45.45	54.00	-8.55	32.24	3	Vertical	97	1.79	-
2422MHz	Pass	PK	2.3896G	57.25	74.00	-16.75	31.86	3	Vertical	97	1.79	-
2422MHz	Pass	PK	2.4236G	93.60	Inf	-Inf	31.98	3	Vertical	97	1.79	-
2422MHz	Pass	PK	2.486G	57.26	74.00	-16.74	32.20	3	Vertical	97	1.79	-
2422MHz	Pass	AV	2.39G	52.37	54.00	-1.63	31.86	3	Horizontal	57	1.00	-
2422MHz	Pass	AV	2.4232G	92.81	Inf	-Inf	31.98	3	Horizontal	57	1.00	-
2422MHz	Pass	AV	2.4876G	45.99	54.00	-8.01	32.20	3	Horizontal	57	1.00	-
2422MHz	Pass	PK	2.3888G	69.36	74.00	-4.64	31.85	3	Horizontal	57	1.00	-
2422MHz	Pass	PK	2.42G	103.36	Inf	-Inf	31.96	3	Horizontal	57	1.00	-
2422MHz	Pass	PK	2.4868G	58.03	74.00	-15.97	32.20	3	Horizontal	57	1.00	-
2422MHz	Pass	AV	4.8455G	29.09	54.00	-24.91	3.54	3	Vertical	278	2.26	-
2422MHz	Pass	PK	4.84648G	42.69	74.00	-31.31	3.54	3	Vertical	269	2.47	-
2422MHz	Pass	AV	4.84402G	30.28	54.00	-23.72	3.54	3	Horizontal	99	2.24	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2422MHz	Pass	PK	4.84468G	43.26	74.00	-30.74	3.54	3	Horizontal	99	2.24	-
2427MHz	Pass	AV	2.3894G	45.18	54.00	-8.82	31.85	3	Vertical	97	1.80	-
2427MHz	Pass	AV	2.4282G	83.58	Inf	-Inf	31.99	3	Vertical	97	1.80	-
2427MHz	Pass	AV	2.499G	45.37	54.00	-8.63	32.25	3	Vertical	97	1.80	-
2427MHz	Pass	PK	2.3778G	56.53	74.00	-17.47	31.81	3	Vertical	97	1.80	-
2427MHz	Pass	PK	2.429G	93.62	Inf	-Inf	31.99	3	Vertical	97	1.80	-
2427MHz	Pass	PK	2.4878G	57.72	74.00	-16.28	32.20	3	Vertical	97	1.80	-
2427MHz	Pass	AV	2.3898G	52.62	54.00	-1.38	31.86	3	Horizontal	52	1.01	-
2427MHz	Pass	AV	2.429G	93.63	Inf	-Inf	31.99	3	Horizontal	52	1.01	-
2427MHz	Pass	AV	2.4838G	46.36	54.00	-7.64	32.19	3	Horizontal	52	1.01	-
2427MHz	Pass	PK	2.389G	68.61	74.00	-5.39	31.85	3	Horizontal	52	1.01	-
2427MHz	Pass	PK	2.429G	103.86	Inf	-Inf	31.99	3	Horizontal	52	1.01	-
2427MHz	Pass	PK	2.4878G	59.08	74.00	-14.92	32.20	3	Horizontal	52	1.01	-
2437MHz	Pass	AV	2.3898G	45.28	54.00	-8.72	31.86	3	Vertical	94	1.50	-
2437MHz	Pass	AV	2.4386G	85.90	Inf	-Inf	32.03	3	Vertical	94	1.50	-
2437MHz	Pass	AV	2.4835G	47.36	54.00	-6.64	32.19	3	Vertical	94	1.50	-
2437MHz	Pass	PK	2.389G	57.45	74.00	-16.55	31.85	3	Vertical	94	1.50	-
2437MHz	Pass	PK	2.4386G	95.30	Inf	-Inf	32.03	3	Vertical	94	1.50	-
2437MHz	Pass	PK	2.4838G	60.05	74.00	-13.95	32.19	3	Vertical	94	1.50	-
2437MHz	Pass	AV	2.3898G	48.97	54.00	-5.03	31.86	3	Horizontal	51	1.18	-
2437MHz	Pass	AV	2.4354G	95.25	Inf	-Inf	32.01	3	Horizontal	51	1.18	-
2437MHz	Pass	AV	2.4835G	52.88	54.00	-1.12	32.19	3	Horizontal	51	1.18	-
2437MHz	Pass	PK	2.3894G	62.98	74.00	-11.02	31.85	3	Horizontal	51	1.18	-
2437MHz	Pass	PK	2.4346G	104.94	Inf	-Inf	32.01	3	Horizontal	51	1.18	-
2437MHz	Pass	PK	2.4835G	71.21	74.00	-2.79	32.19	3	Horizontal	51	1.18	-
2437MHz	Pass	AV	4.8716G	29.07	54.00	-24.93	3.61	3	Vertical	319	2.20	-
2437MHz	Pass	PK	4.87146G	43.02	74.00	-30.98	3.61	3	Vertical	319	2.20	-
2437MHz	Pass	AV	4.87384G	30.48	54.00	-23.52	3.61	3	Horizontal	135	1.01	-
2437MHz	Pass	PK	4.87014G	43.69	74.00	-30.31	3.61	3	Horizontal	135	1.01	-
2447MHz	Pass	AV	2.359G	44.80	54.00	-9.20	31.74	3	Vertical	99	1.78	-
2447MHz	Pass	AV	2.449G	83.01	Inf	-Inf	32.07	3	Vertical	99	1.78	-
2447MHz	Pass	AV	2.4835G	47.47	54.00	-6.53	32.19	3	Vertical	99	1.78	-
2447MHz	Pass	PK	2.3854G	56.80	74.00	-17.20	31.83	3	Vertical	99	1.78	-
2447MHz	Pass	PK	2.449G	92.97	Inf	-Inf	32.07	3	Vertical	99	1.78	-
2447MHz	Pass	PK	2.485G	62.03	74.00	-11.97	32.19	3	Vertical	99	1.78	-
2447MHz	Pass	AV	2.383G	45.09	54.00	-8.91	31.83	3	Horizontal	54	1.78	-
2447MHz	Pass	AV	2.4454G	92.92	Inf	-Inf	32.05	3	Horizontal	54	1.78	-
2447MHz	Pass	AV	2.4835G	52.57	54.00	-1.43	32.19	3	Horizontal	54	1.78	-
2447MHz	Pass	PK	2.3622G	57.19	74.00	-16.81	31.76	3	Horizontal	54	1.78	-
2447MHz	Pass	PK	2.4498G	102.82	Inf	-Inf	32.07	3	Horizontal	54	1.78	-
2447MHz	Pass	PK	2.4835G	69.03	74.00	-4.97	32.19	3	Horizontal	54	1.78	-
2452MHz	Pass	AV	2.3652G	44.87	54.00	-9.13	31.77	3	Vertical	304	2.69	-
2452MHz	Pass	AV	2.4536G	83.85	Inf	-Inf	32.08	3	Vertical	304	2.69	-
2452MHz	Pass	AV	2.484G	47.04	54.00	-6.96	32.19	3	Vertical	304	2.69	-
2452MHz	Pass	PK	2.3868G	56.20	74.00	-17.80	31.84	3	Vertical	304	2.69	-
2452MHz	Pass	PK	2.456G	93.71	Inf	-Inf	32.09	3	Vertical	304	2.69	-
2452MHz	Pass	PK	2.488G	59.78	74.00	-14.22	32.20	3	Vertical	304	2.69	-
2452MHz	Pass	AV	2.3868G	44.98	54.00	-9.02	31.84	3	Horizontal	59	1.50	-
2452MHz	Pass	AV	2.4508G	90.96	Inf	-Inf	32.07	3	Horizontal	59	1.50	-



RSE TX above 1GHz

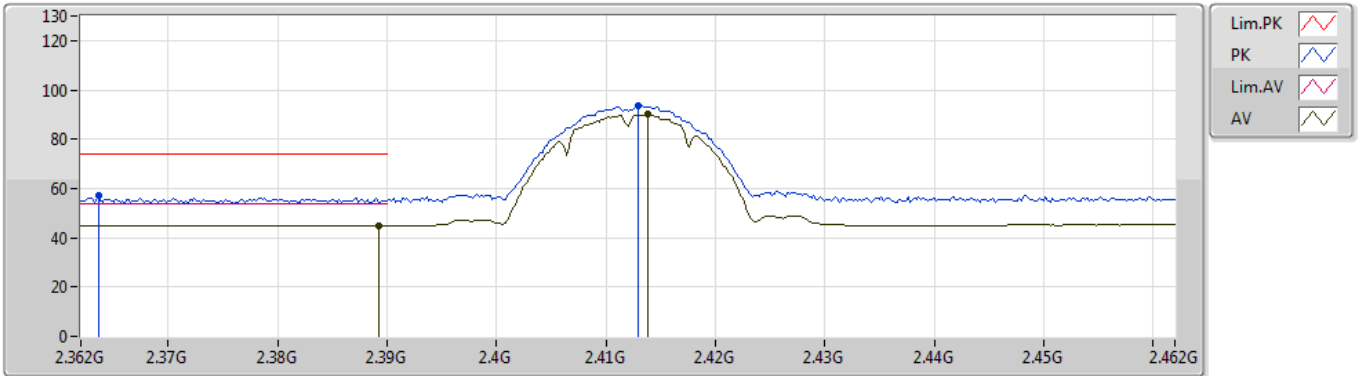
Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2452MHz	Pass	AV	2.4835G	52.26	54.00	-1.74	32.19	3	Horizontal	59	1.50	-
2452MHz	Pass	PK	2.3544G	56.79	74.00	-17.21	31.73	3	Horizontal	59	1.50	-
2452MHz	Pass	PK	2.4504G	101.29	Inf	-Inf	32.07	3	Horizontal	59	1.50	-
2452MHz	Pass	PK	2.484G	69.03	74.00	-4.97	32.19	3	Horizontal	59	1.50	-
2452MHz	Pass	AV	4.90678G	29.25	54.00	-24.75	3.69	3	Vertical	281	1.67	-
2452MHz	Pass	PK	4.90176G	43.03	74.00	-30.97	3.68	3	Vertical	281	1.67	-
2452MHz	Pass	AV	4.90708G	29.32	54.00	-24.68	3.69	3	Horizontal	93	2.27	-
2452MHz	Pass	PK	4.90024G	42.68	74.00	-31.32	3.68	3	Horizontal	93	2.27	-

802.11b_Nss1,(1Mbps)_1TX

31/05/2019

2412MHz_TX

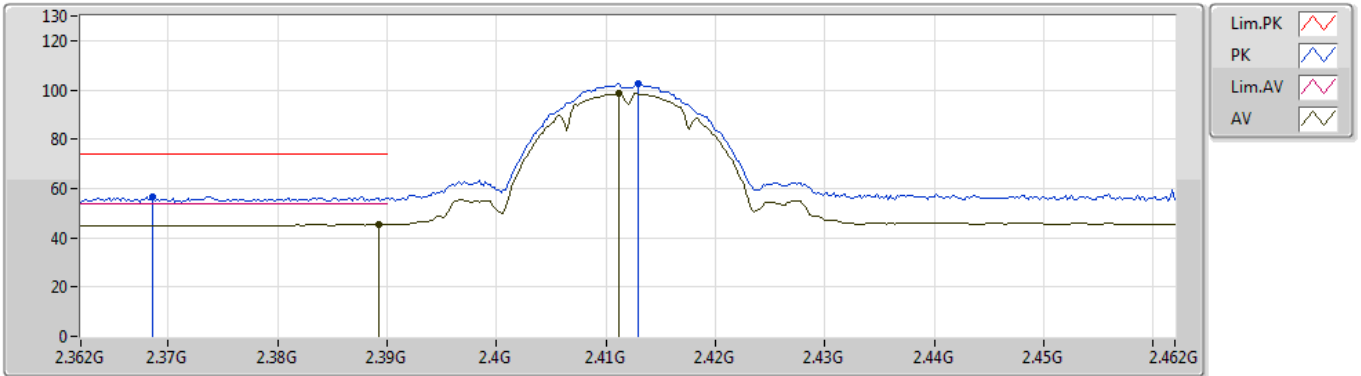


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3892G	44.75	54.00	-9.25	31.91	3	Vertical	341	1.55	-				
AV	2.4138G	90.00	Inf	-Inf	32.01	3	Vertical	341	1.55	-				
PK	2.3636G	56.96	74.00	-17.04	31.81	3	Vertical	341	1.55	-				
PK	2.413G	93.65	Inf	-Inf	32.01	3	Vertical	341	1.55	-				

802.11b_Nss1,(1Mbps)_1TX

31/05/2019

2412MHz_TX

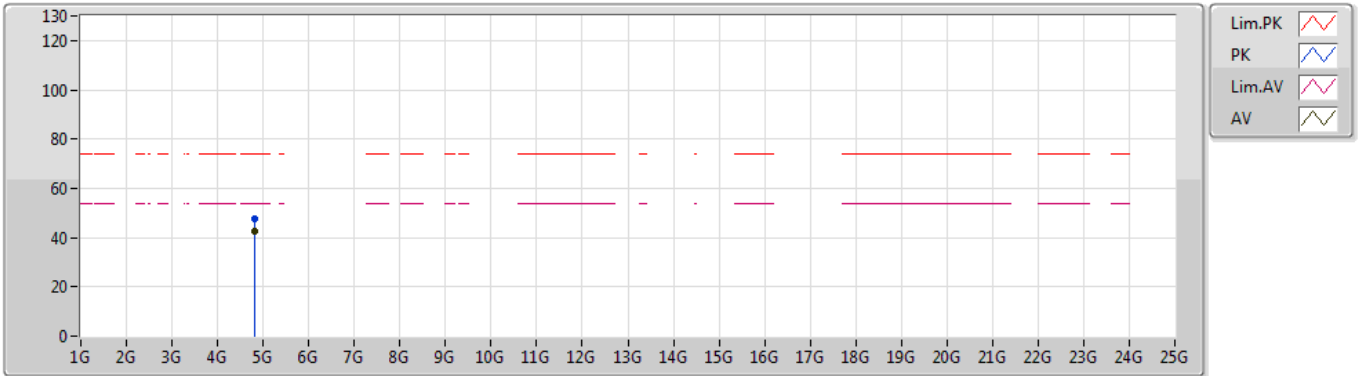


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3892G	45.28	54.00	-8.72	31.91	3	Horizontal	299	1.00	-				
AV	2.4112G	98.71	Inf	-Inf	31.99	3	Horizontal	299	1.00	-				
PK	2.3686G	56.58	74.00	-17.42	31.82	3	Horizontal	299	1.00	-				
PK	2.413G	102.49	Inf	-Inf	32.01	3	Horizontal	299	1.00	-				

802.11b_Nss1,(1Mbps)_1TX

31/05/2019

2412MHz_TX

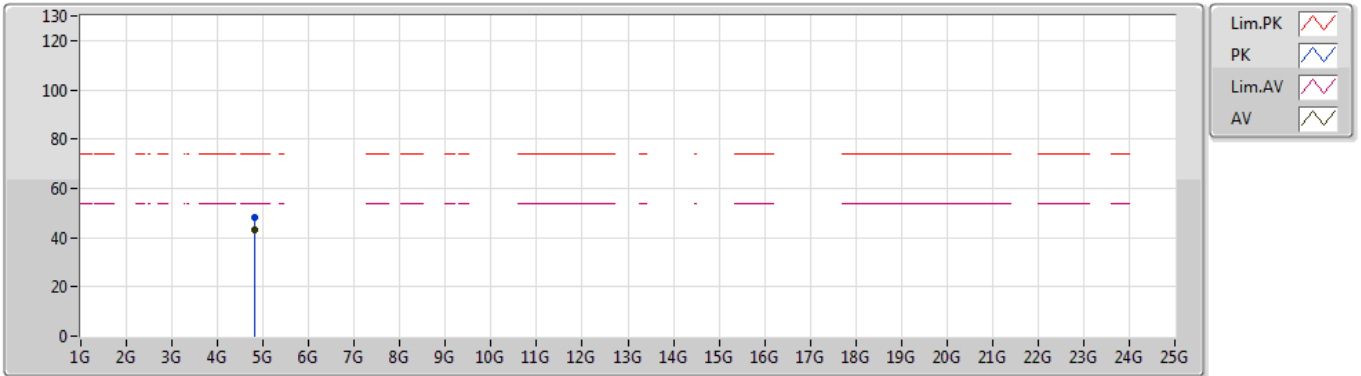


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.824G	42.53	54.00	-11.47	3.53	3	Vertical	323	2.96	-				
PK	4.82418G	47.55	74.00	-26.45	3.53	3	Vertical	323	2.96	-				

802.11b_Nss1,(1Mbps)_1TX

31/05/2019

2412MHz_TX

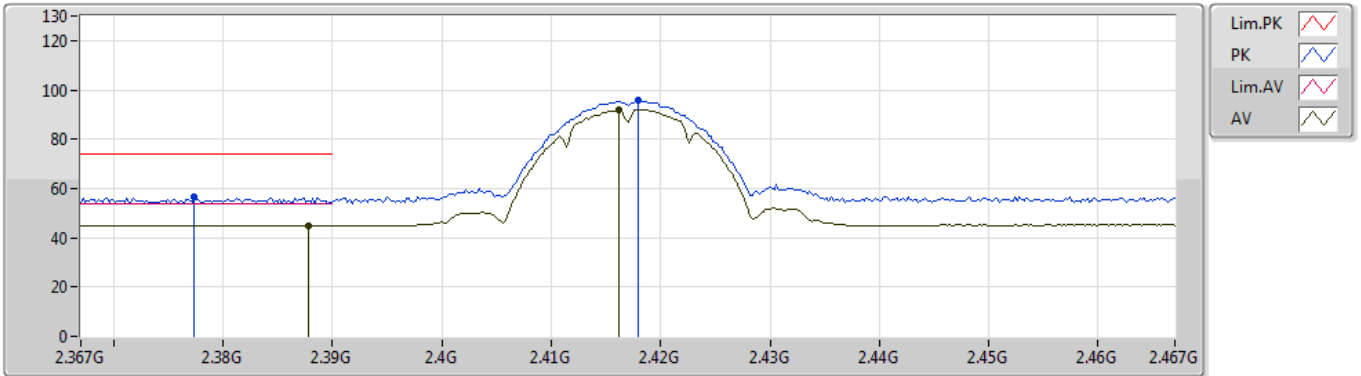


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.824G	43.24	54.00	-10.76	3.53	3	Horizontal	292	1.01	-				
PK	4.82406G	47.94	74.00	-26.06	3.53	3	Horizontal	292	1.01	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2417MHz_TX

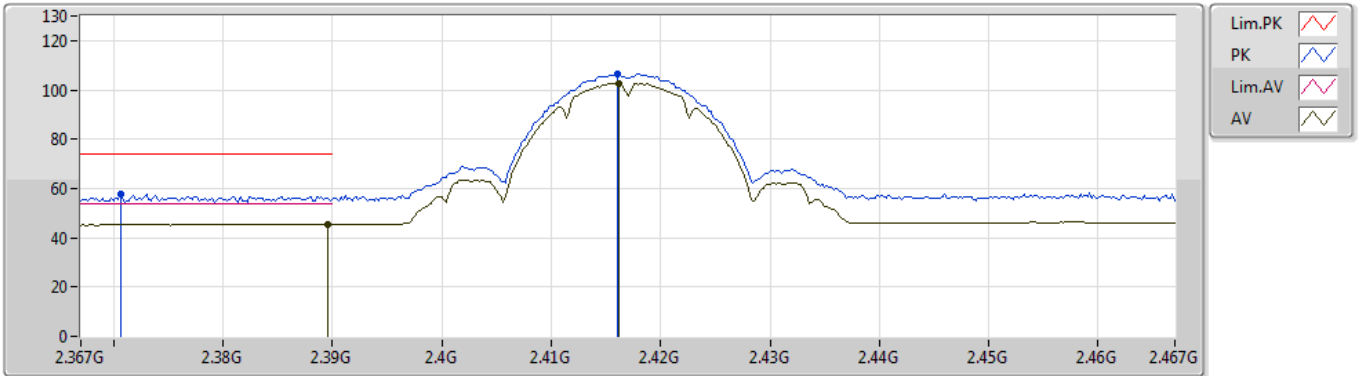


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3878G	44.86	54.00	-9.14	31.85	3	Vertical	324	1.47	-				
AV	2.4162G	91.85	Inf	-Inf	31.95	3	Vertical	324	1.47	-				
PK	2.3774G	56.35	74.00	-17.65	31.81	3	Vertical	324	1.47	-				
PK	2.418G	95.75	Inf	-Inf	31.95	3	Vertical	324	1.47	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2417MHz_TX

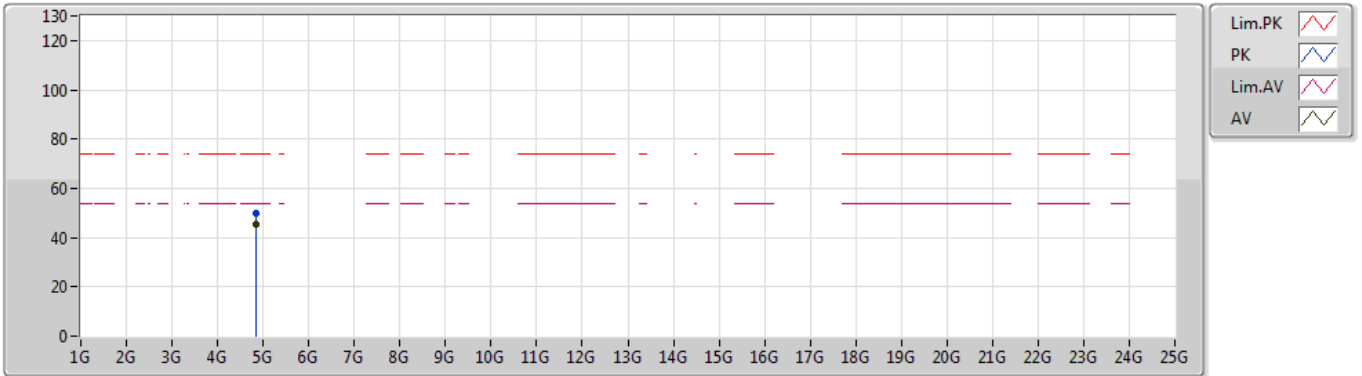


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3896G	45.46	54.00	-8.54	31.86	3	Horizontal	55	1.10	-				
AV	2.4162G	102.74	Inf	-Inf	31.95	3	Horizontal	55	1.10	-				
PK	2.3706G	57.53	74.00	-16.47	31.79	3	Horizontal	55	1.10	-				
PK	2.416G	106.45	Inf	-Inf	31.95	3	Horizontal	55	1.10	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2417MHz_TX

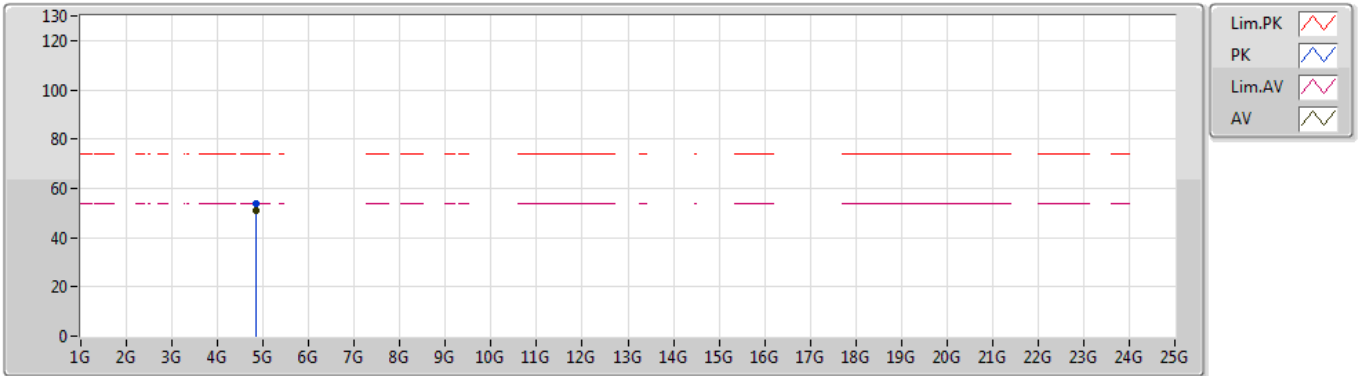


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.83398G	45.43	54.00	-8.57	3.51	3	Vertical	156	2.63	-				
PK	4.83394G	49.60	74.00	-24.40	3.51	3	Vertical	156	2.63	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2417MHz_TX

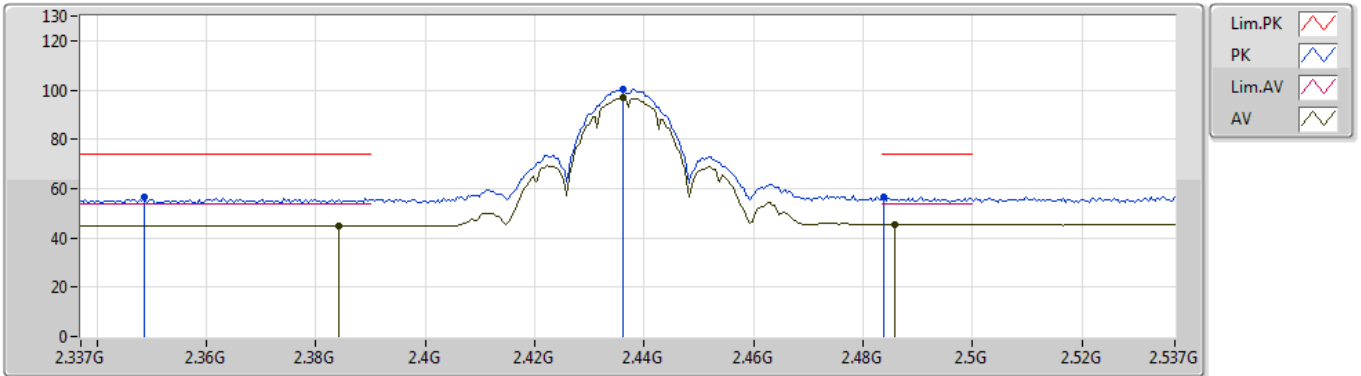


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.834G	50.96	54.00	-3.04	3.51	3	Horizontal	102	2.36	-				
PK	4.83399G	53.52	74.00	-20.48	3.51	3	Horizontal	102	2.36	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2437MHz_TX

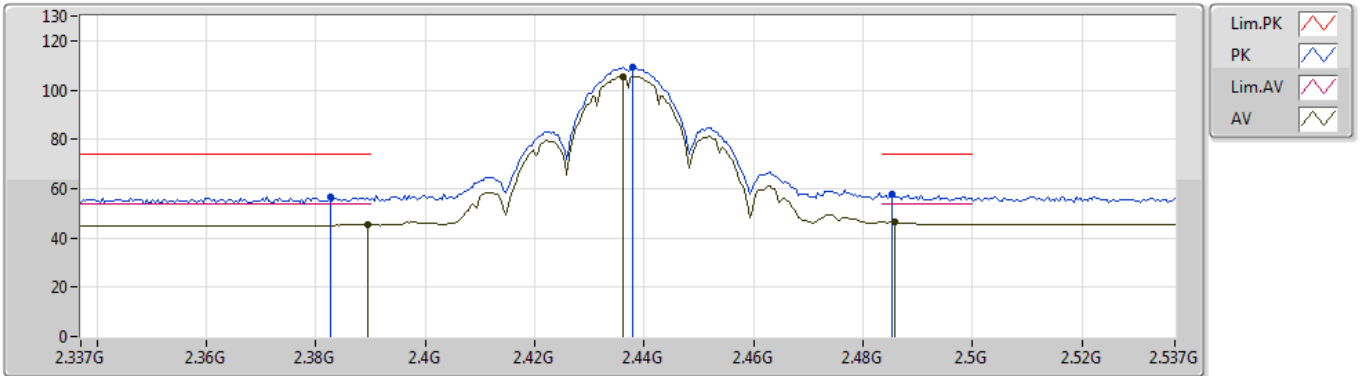


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3842G	44.91	54.00	-9.09	31.83	3	Vertical	95	1.51	-				
AV	2.4362G	96.90	Inf	-Inf	32.02	3	Vertical	95	1.51	-				
AV	2.4858G	45.52	54.00	-8.48	32.20	3	Vertical	95	1.51	-				
PK	2.3486G	56.32	74.00	-17.68	31.71	3	Vertical	95	1.51	-				
PK	2.4362G	100.53	Inf	-Inf	32.02	3	Vertical	95	1.51	-				
PK	2.4838G	56.55	74.00	-17.45	32.19	3	Vertical	95	1.51	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2437MHz_TX

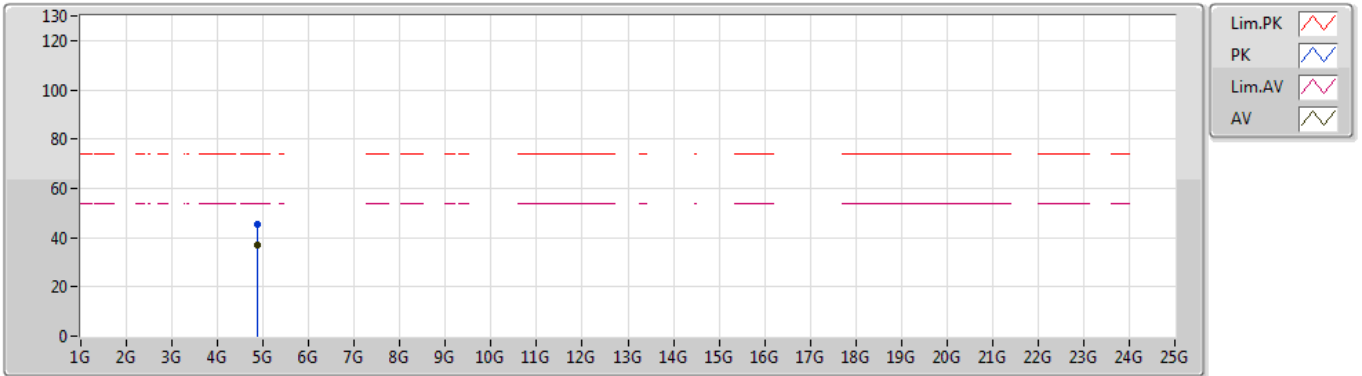


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3894G	45.60	54.00	-8.40	31.85	3	Horizontal	52	1.20	-				
AV	2.4362G	105.47	Inf	-Inf	32.02	3	Horizontal	52	1.20	-				
AV	2.4858G	46.52	54.00	-7.48	32.20	3	Horizontal	52	1.20	-				
PK	2.3826G	56.61	74.00	-17.39	31.83	3	Horizontal	52	1.20	-				
PK	2.4378G	109.24	Inf	-Inf	32.02	3	Horizontal	52	1.20	-				
PK	2.4854G	57.73	74.00	-16.27	32.19	3	Horizontal	52	1.20	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2437MHz_TX

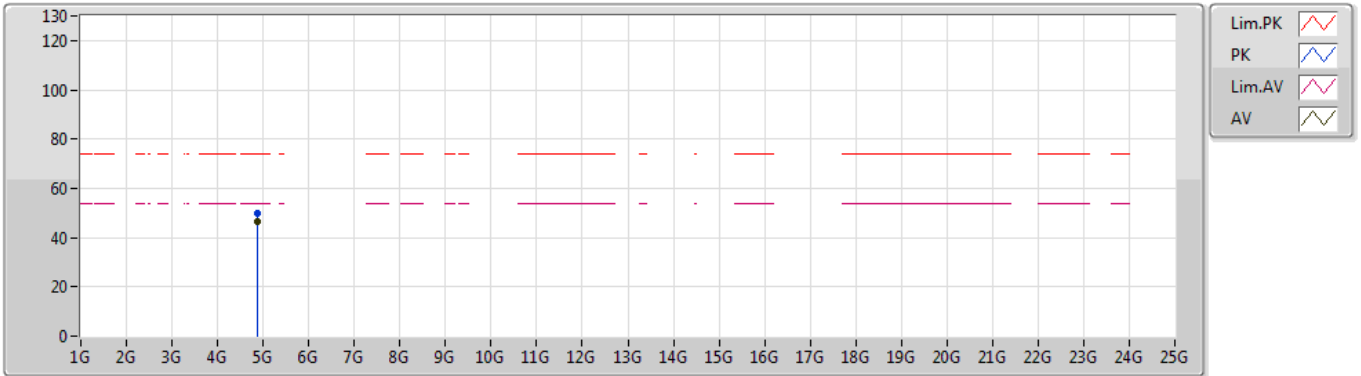


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.87402G	37.13	54.00	-16.87	3.61	3	Vertical	185	1.76	-				
PK	4.87416G	45.23	74.00	-28.77	3.61	3	Vertical	185	1.76	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2437MHz_TX

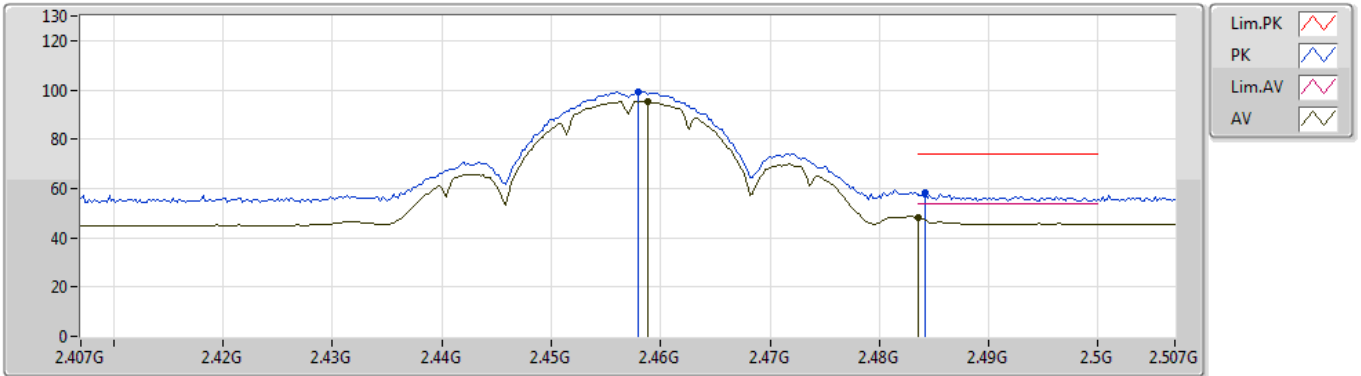


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.874G	46.33	54.00	-7.67	3.61	3	Horizontal	134	1.11	-				
PK	4.87396G	50.04	74.00	-23.96	3.61	3	Horizontal	134	1.11	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2457MHz_TX

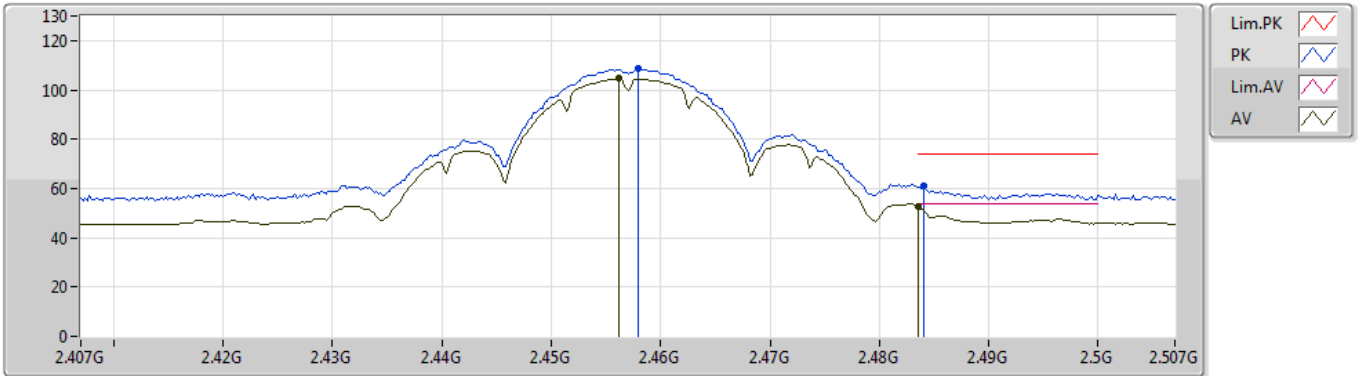


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4588G	95.38	Inf	-Inf	32.10	3	Vertical	98	1.75	-				
AV	2.4835G	48.02	54.00	-5.98	32.19	3	Vertical	98	1.75	-				
PK	2.458G	99.39	Inf	-Inf	32.10	3	Vertical	98	1.75	-				
PK	2.4842G	58.24	74.00	-15.76	32.19	3	Vertical	98	1.75	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2457MHz_TX

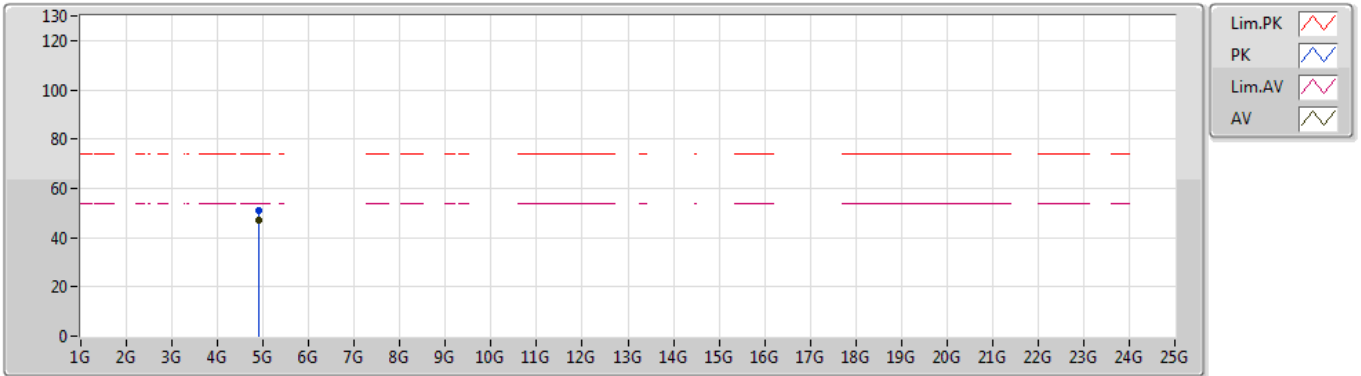


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4562G	104.61	Inf	-Inf	32.09	3	Horizontal	55	1.38	-				
AV	2.4835G	52.64	54.00	-1.36	32.19	3	Horizontal	55	1.38	-				
PK	2.458G	108.43	Inf	-Inf	32.10	3	Horizontal	55	1.38	-				
PK	2.484G	60.94	74.00	-13.06	32.19	3	Horizontal	55	1.38	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2457MHz_TX

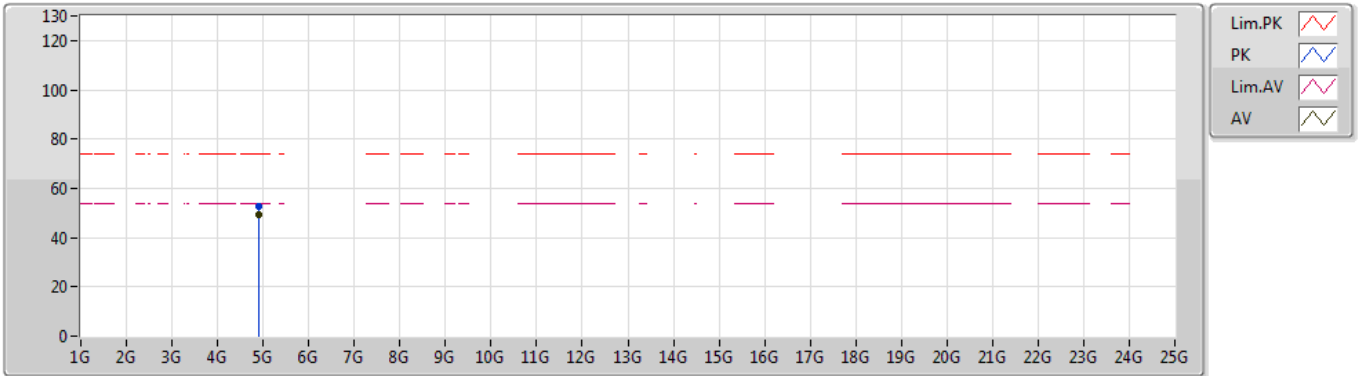


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.914G	47.26	54.00	-6.74	3.71	3	Vertical	212	2.98	-				
PK	4.91408G	50.94	74.00	-23.06	3.71	3	Vertical	212	2.98	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2457MHz_TX

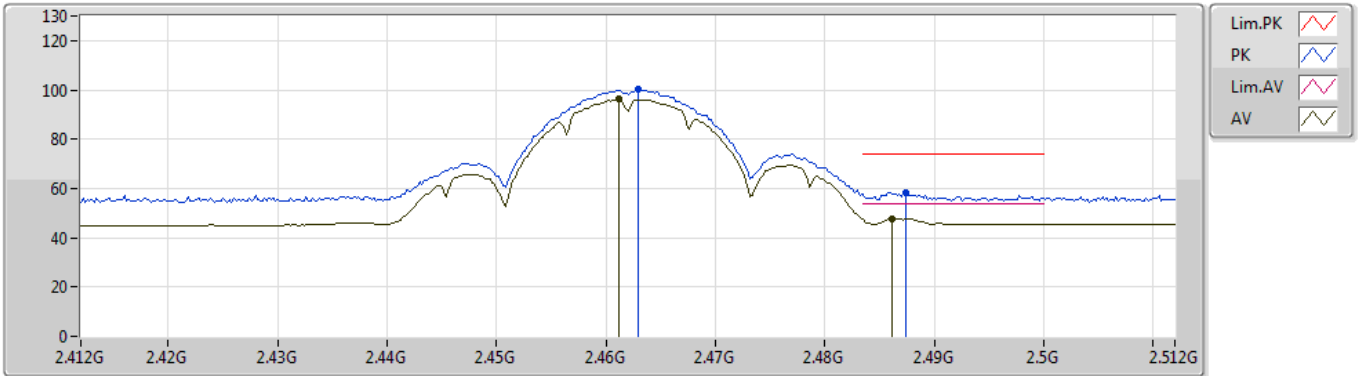


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.91398G	49.52	54.00	-4.48	3.71	3	Horizontal	137	1.21	-				
PK	4.91402G	52.89	74.00	-21.11	3.71	3	Horizontal	137	1.21	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2462MHz_TX

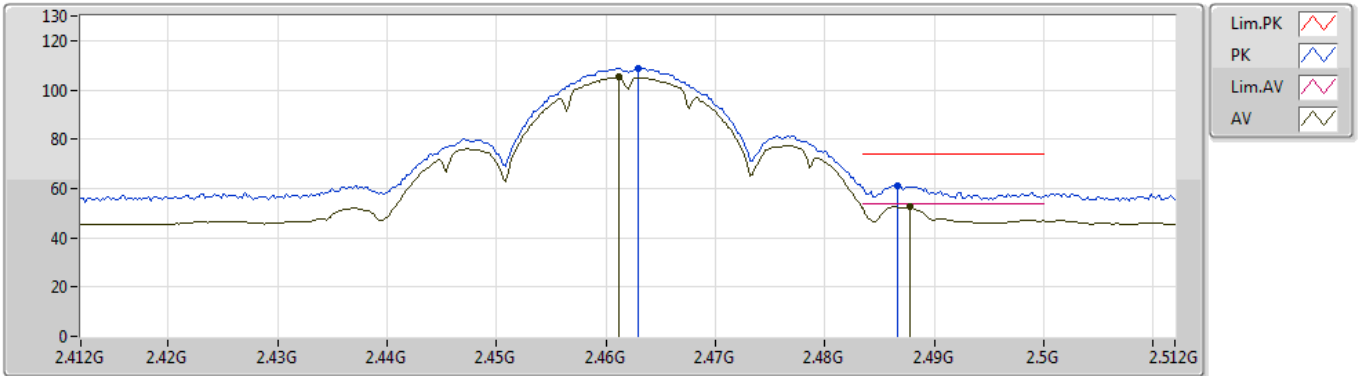


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4612G	96.12	Inf	-Inf	32.11	3	Vertical	97	1.73	-				
AV	2.4862G	47.66	54.00	-6.34	32.20	3	Vertical	97	1.73	-				
PK	2.463G	100.25	Inf	-Inf	32.11	3	Vertical	97	1.73	-				
PK	2.4874G	58.14	74.00	-15.86	32.20	3	Vertical	97	1.73	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2462MHz_TX

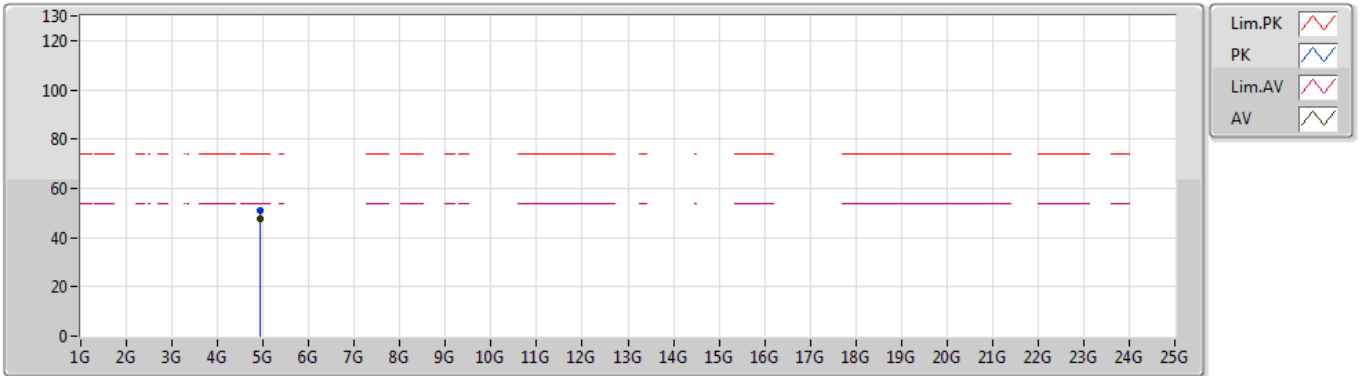


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4612G	105.07	Inf	-Inf	32.11	3	Horizontal	130	2.24	-				
AV	2.4878G	52.67	54.00	-1.33	32.20	3	Horizontal	130	2.24	-				
PK	2.463G	108.93	Inf	-Inf	32.11	3	Horizontal	130	2.24	-				
PK	2.4866G	61.10	74.00	-12.90	32.20	3	Horizontal	130	2.24	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2462MHz_TX

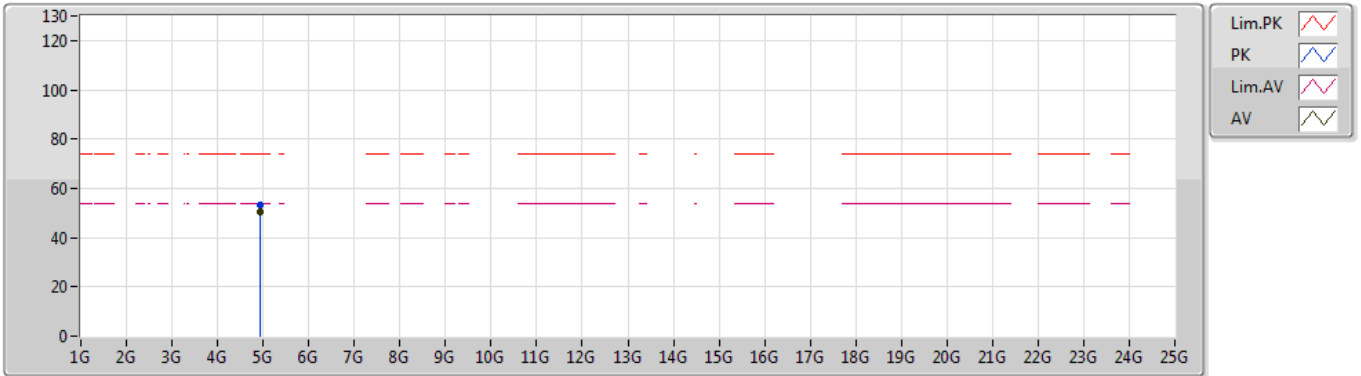


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.92398G	47.51	54.00	-6.49	3.73	3	Vertical	207	2.96	-				
PK	4.92408G	51.22	74.00	-22.78	3.73	3	Vertical	207	2.96	-				

802.11b_Nss1,(1Mbps)_1TX

22/05/2019

2462MHz_TX

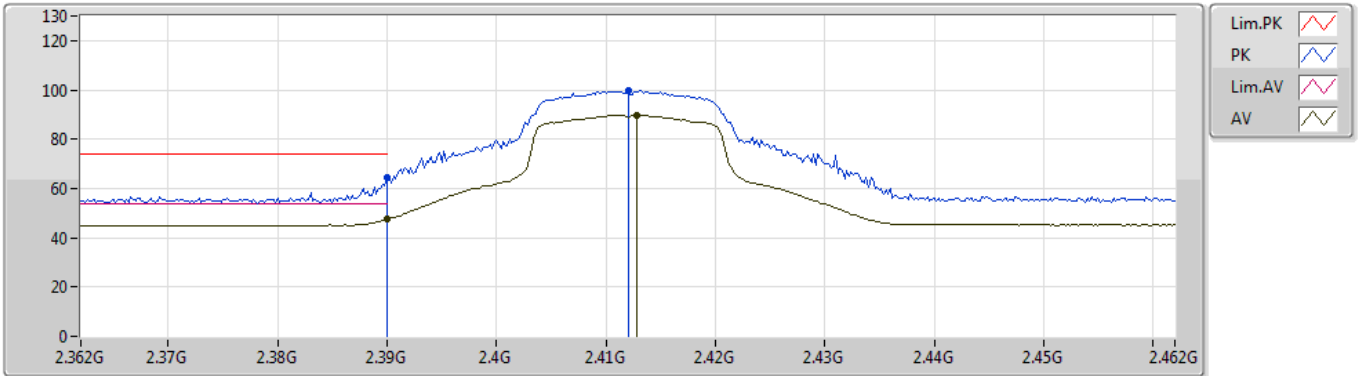


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.92398G	50.56	54.00	-3.44	3.73	3	Horizontal	135	1.13	-				
PK	4.92404G	53.36	74.00	-20.64	3.73	3	Horizontal	135	1.13	-				

802.11g_Nss1,(6Mbps)_1TX

22/05/2019

2412MHz_TX

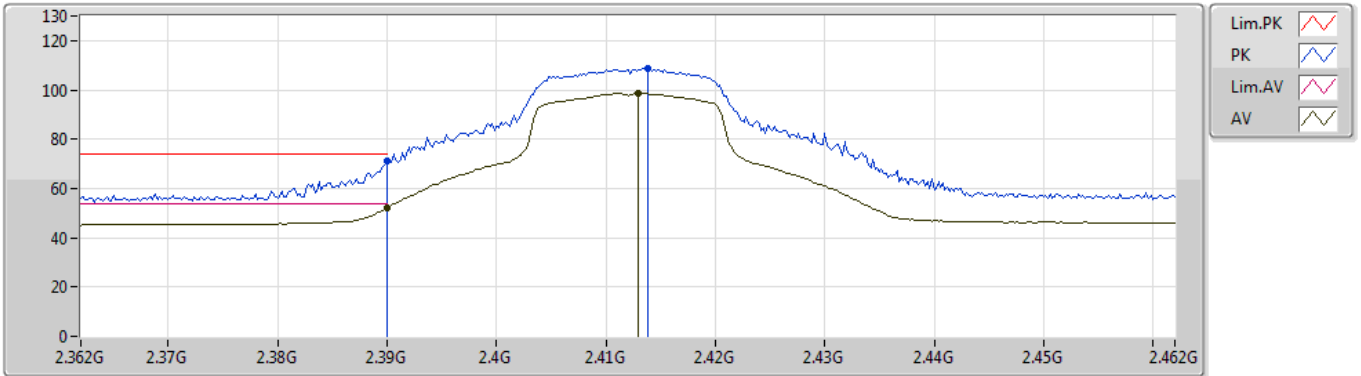


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	47.36	54.00	-6.64	31.86	3	Vertical	306	2.79	-				
AV	2.4128G	89.80	Inf	-Inf	31.93	3	Vertical	306	2.79	-				
PK	2.39G	64.30	74.00	-9.70	31.86	3	Vertical	306	2.79	-				
PK	2.412G	99.84	Inf	-Inf	31.93	3	Vertical	306	2.79	-				

802.11g_Nss1,(6Mbps)_1TX

22/05/2019

2412MHz_TX

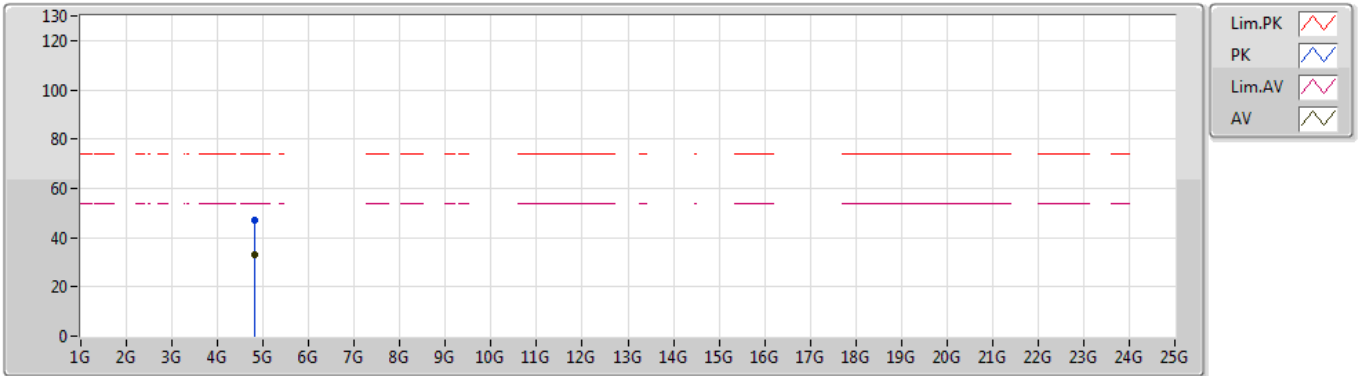


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	52.04	54.00	-1.96	31.86	3	Horizontal	56	1.10	-				
AV	2.413G	98.78	Inf	-Inf	31.94	3	Horizontal	56	1.10	-				
PK	2.39G	71.07	74.00	-2.93	31.86	3	Horizontal	56	1.10	-				
PK	2.4138G	108.50	Inf	-Inf	31.94	3	Horizontal	56	1.10	-				

802.11g_Nss1,(6Mbps)_1TX

22/05/2019

2412MHz_TX

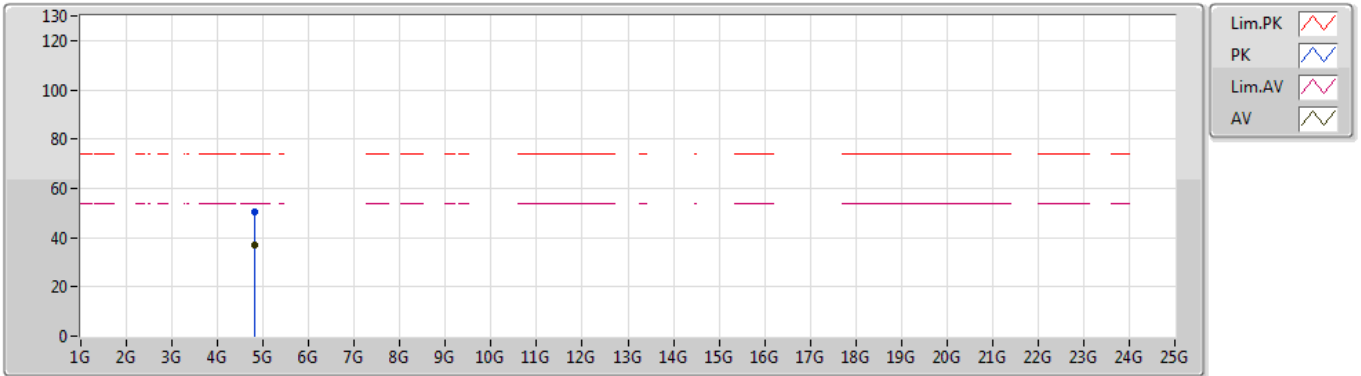


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.82382G	32.80	54.00	-21.20	3.49	3	Vertical	156	2.50	-				
PK	4.82488G	47.15	74.00	-26.85	3.49	3	Vertical	156	2.50	-				

802.11g_Nss1,(6Mbps)_1TX

22/05/2019

2412MHz_TX

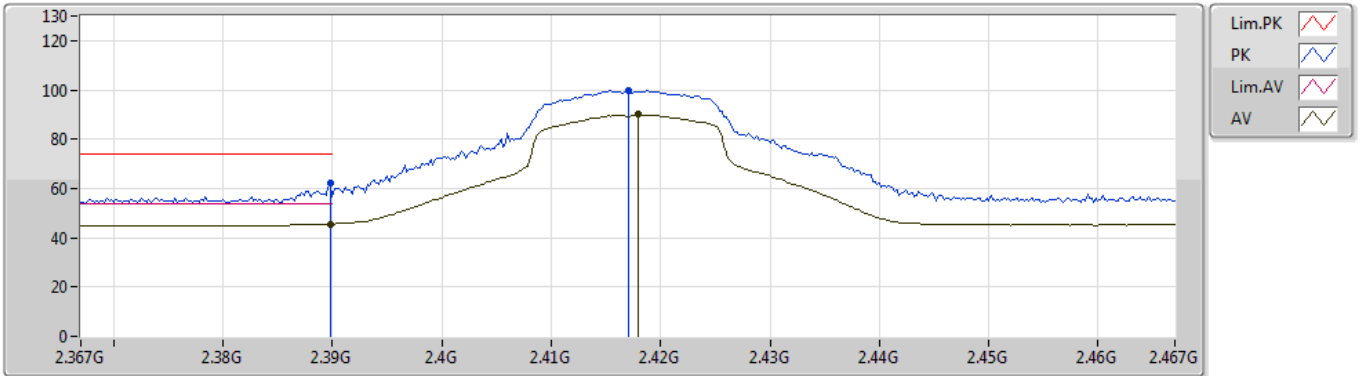


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.82404G	37.08	54.00	-16.92	3.49	3	Horizontal	98	2.50	-				
PK	4.8271G	50.39	74.00	-23.61	3.50	3	Horizontal	98	2.50	-				

802.11g_Nss1,(6Mbps)_1TX

22/05/2019

2417MHz_TX

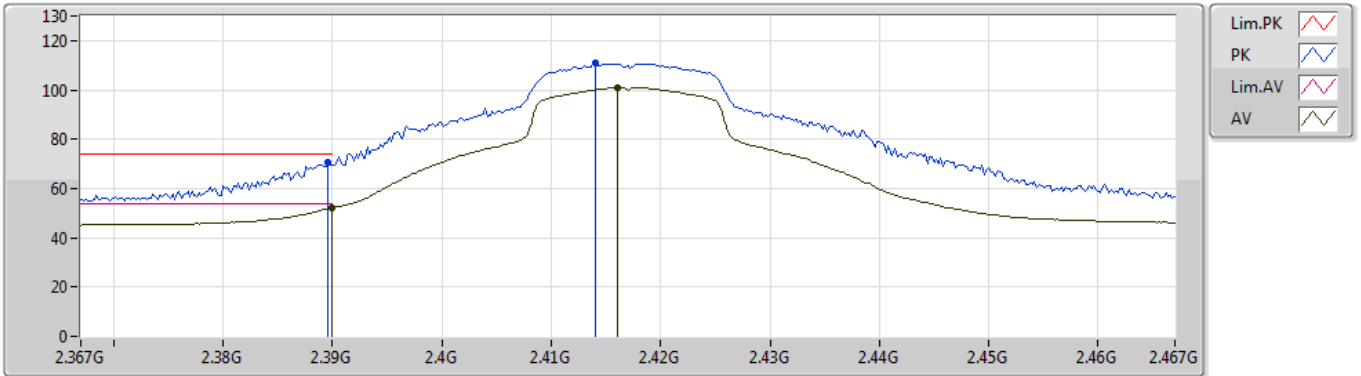


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3898G	45.66	54.00	-8.34	31.86	3	Vertical	324	1.48	-				
AV	2.418G	90.01	Inf	-Inf	31.95	3	Vertical	324	1.48	-				
PK	2.3898G	62.09	74.00	-11.91	31.86	3	Vertical	324	1.48	-				
PK	2.417G	99.73	Inf	-Inf	31.95	3	Vertical	324	1.48	-				

802.11g_Nss1,(6Mbps)_1TX

22/05/2019

2417MHz_TX

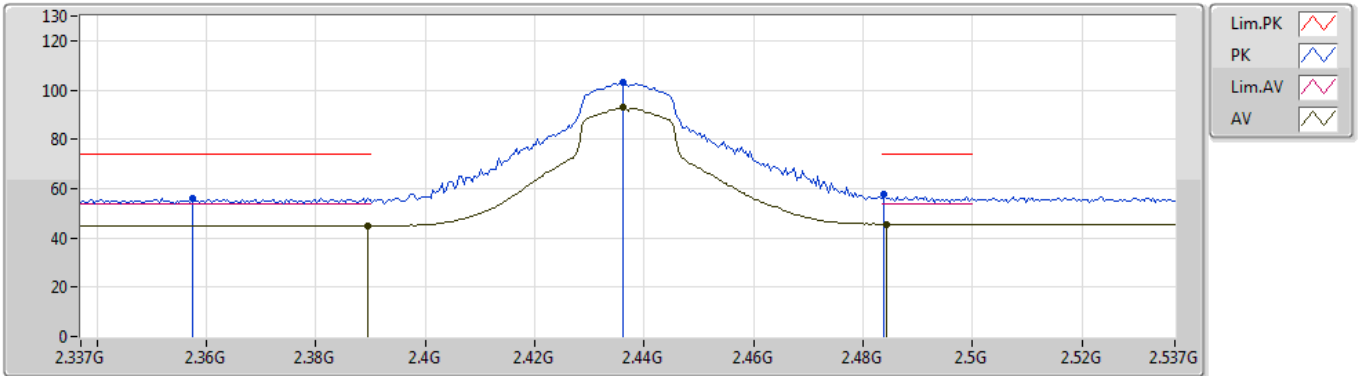


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	52.21	54.00	-1.79	31.86	3	Horizontal	57	1.09	-				
AV	2.416G	100.96	Inf	-Inf	31.95	3	Horizontal	57	1.09	-				
PK	2.3896G	70.68	74.00	-3.32	31.86	3	Horizontal	57	1.09	-				
PK	2.414G	110.91	Inf	-Inf	31.94	3	Horizontal	57	1.09	-				

802.11g_Nss1,(6Mbps)_1TX

22/05/2019

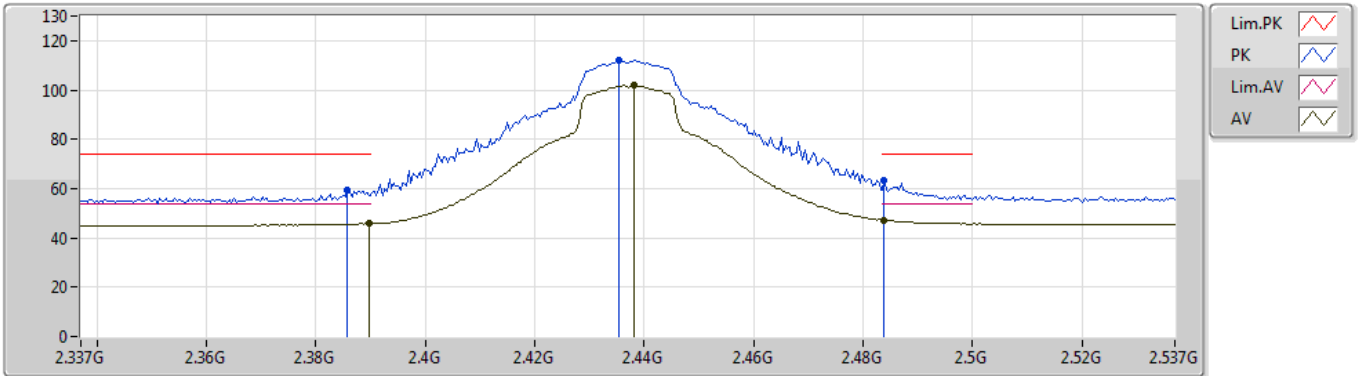
2437MHz_TX



802.11g_Nss1,(6Mbps)_1TX

22/05/2019

2437MHz_TX

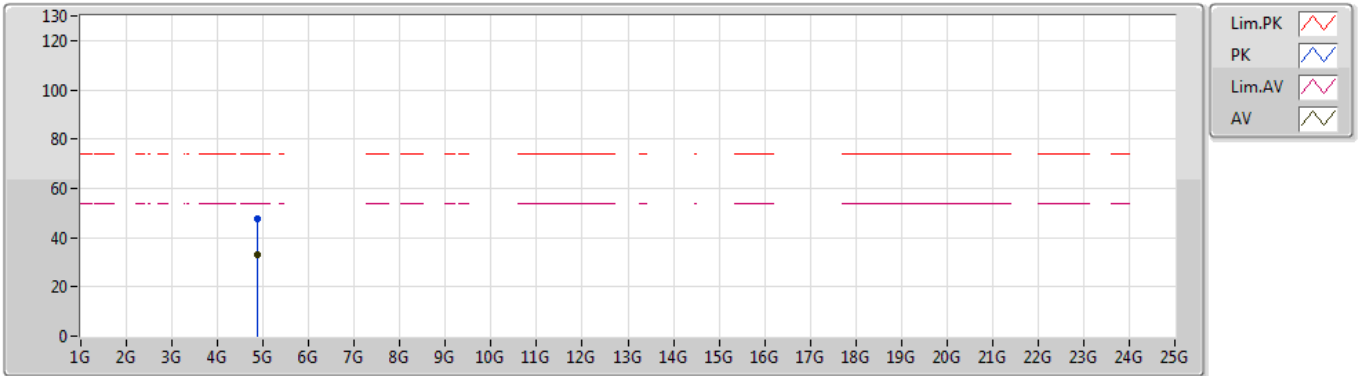


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3898G	45.71	54.00	-8.29	31.86	3	Horizontal	49	1.15	-				
AV	2.4382G	101.88	Inf	-Inf	32.02	3	Horizontal	49	1.15	-				
AV	2.4838G	47.17	54.00	-6.83	32.19	3	Horizontal	49	1.15	-				
PK	2.3858G	59.28	74.00	-14.72	31.84	3	Horizontal	49	1.15	-				
PK	2.4354G	112.20	Inf	-Inf	32.01	3	Horizontal	49	1.15	-				
PK	2.4838G	63.48	74.00	-10.52	32.19	3	Horizontal	49	1.15	-				

802.11g_Nss1,(6Mbps)_1TX

22/05/2019

2437MHz_TX

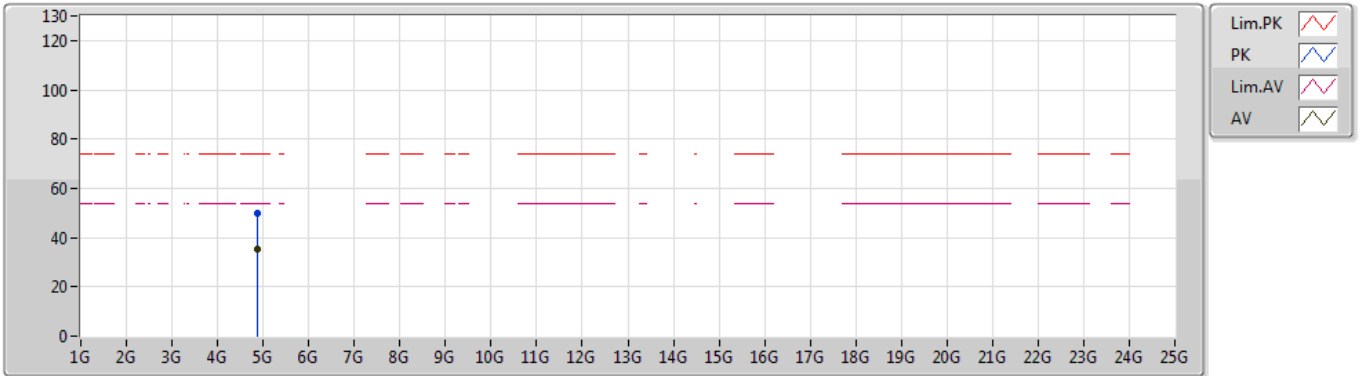


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.87413G	32.84	54.00	-21.16	3.61	3	Vertical	208	2.87	-				
PK	4.87373G	47.62	74.00	-26.38	3.61	3	Vertical	208	2.87	-				

802.11g_Nss1,(6Mbps)_1TX

22/05/2019

2437MHz_TX

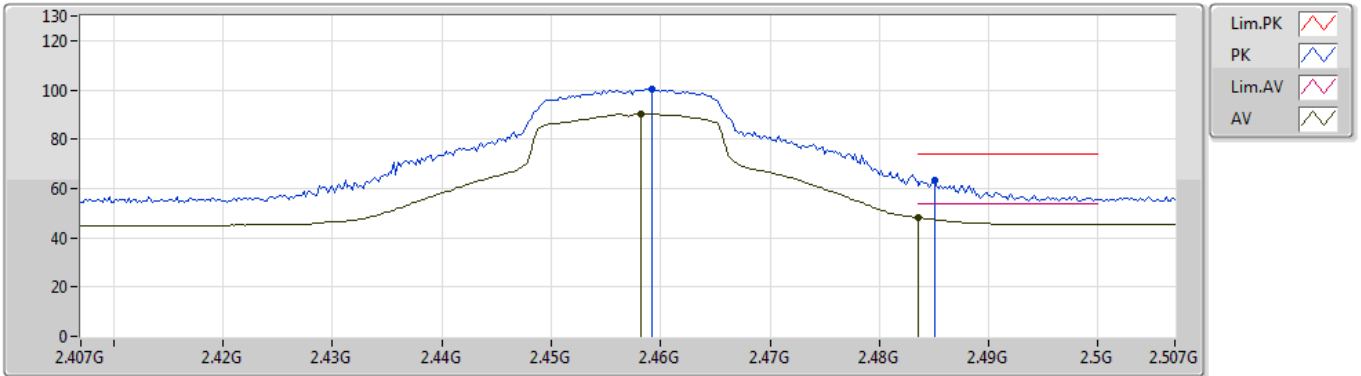


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.87379G	35.37	54.00	-18.63	3.61	3	Horizontal	134	1.13	-				
PK	4.87421G	49.70	74.00	-24.30	3.61	3	Horizontal	134	1.13	-				

802.11g_Nss1,(6Mbps)_1TX

22/05/2019

2457MHz_TX

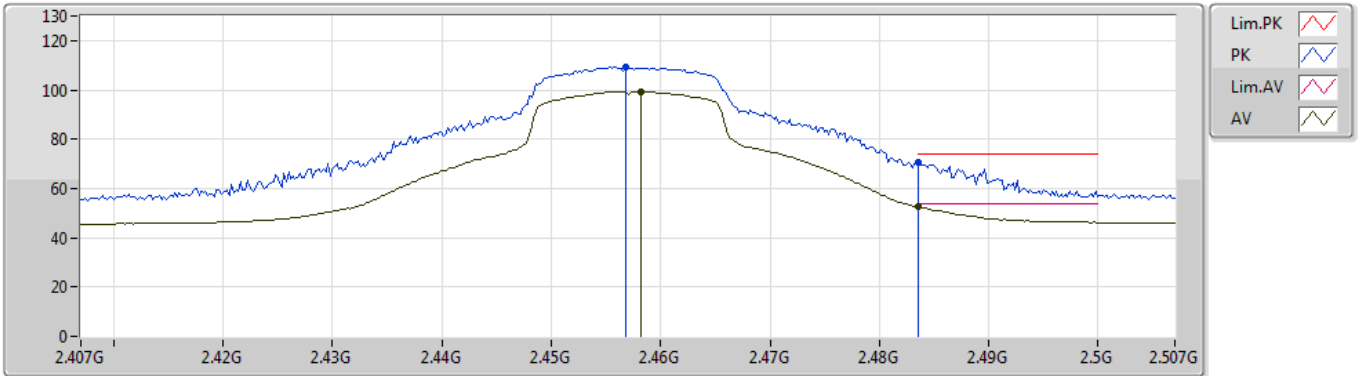


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4582G	90.42	Inf	-Inf	32.10	3	Vertical	96	1.73	-				
AV	2.4835G	48.07	54.00	-5.93	32.19	3	Vertical	96	1.73	-				
PK	2.4592G	100.16	Inf	-Inf	32.10	3	Vertical	96	1.73	-				
PK	2.485G	63.35	74.00	-10.65	32.19	3	Vertical	96	1.73	-				

802.11g_Nss1,(6Mbps)_1TX

22/05/2019

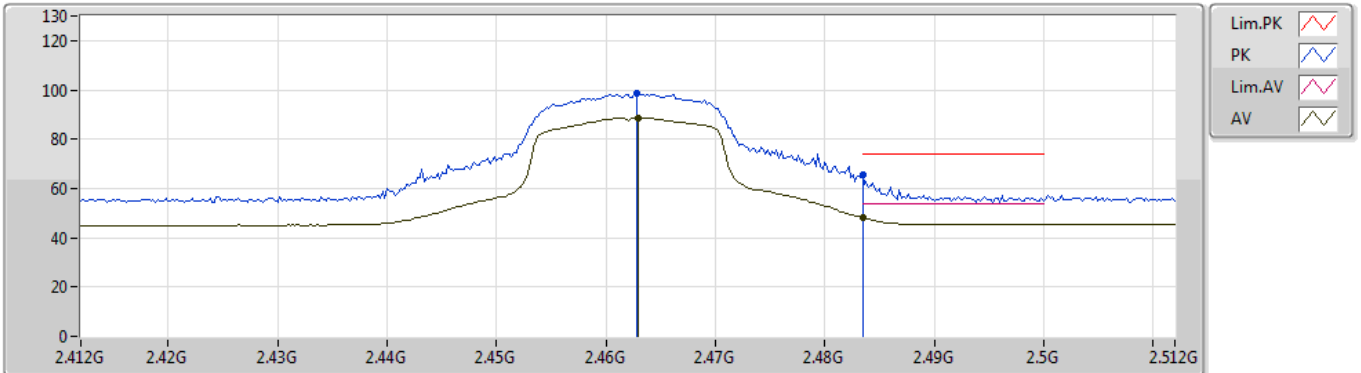
2457MHz_TX



802.11g_Nss1,(6Mbps)_1TX

22/05/2019

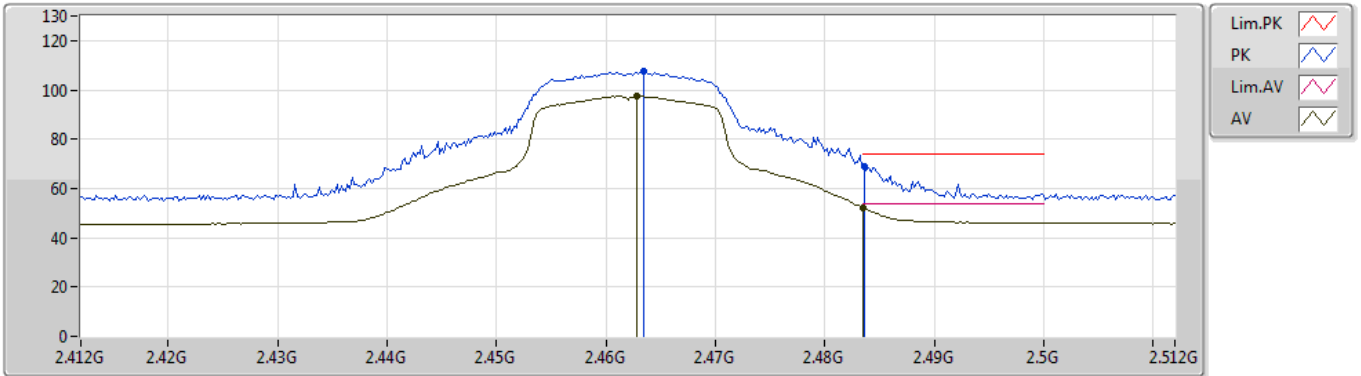
2462MHz_TX



802.11g_Nss1,(6Mbps)_1TX

22/05/2019

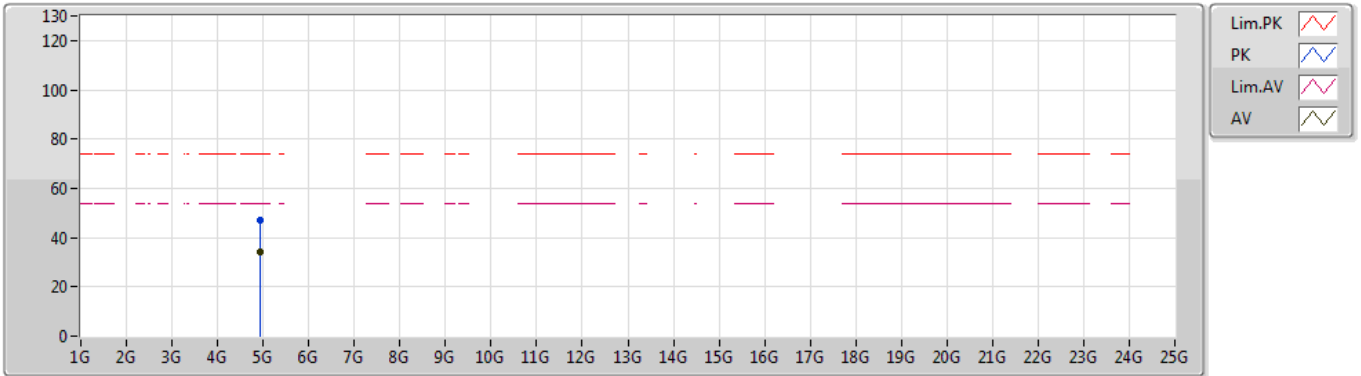
2462MHz_TX



802.11g_Nss1,(6Mbps)_1TX

22/05/2019

2462MHz_TX

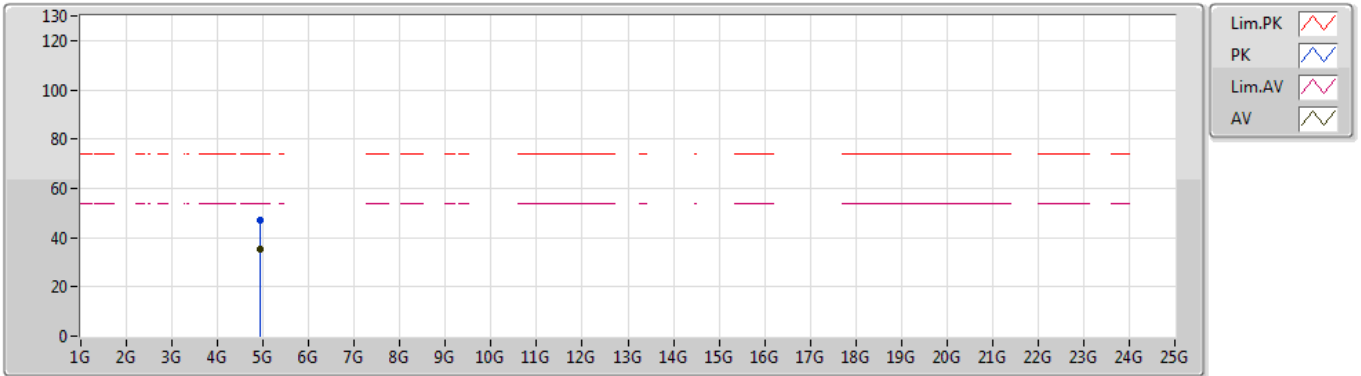


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.9239G	34.41	54.00	-19.59	3.73	3	Vertical	193	2.50	-				
PK	4.92246G	46.97	74.00	-27.03	3.73	3	Vertical	193	2.50	-				

802.11g_Nss1,(6Mbps)_1TX

22/05/2019

2462MHz_TX

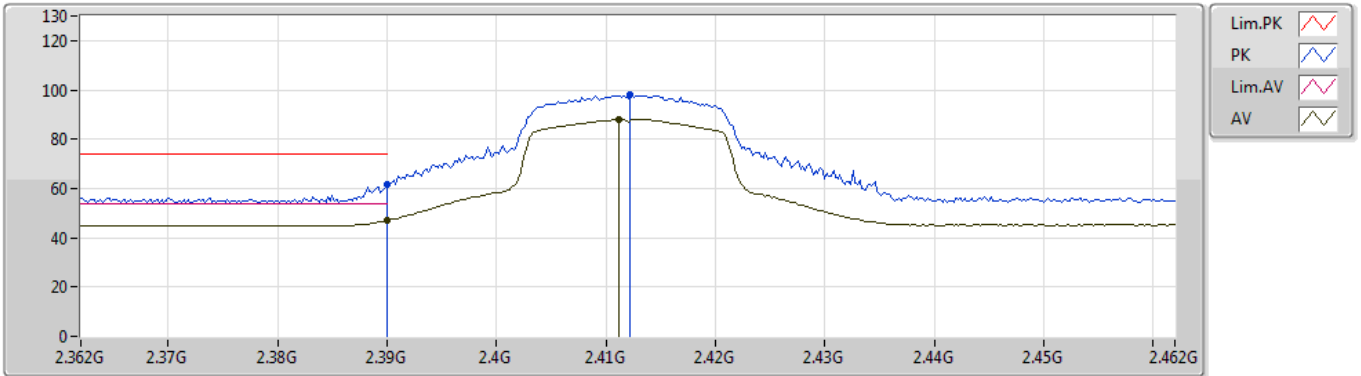


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.92398G	35.12	54.00	-18.88	3.73	3	Horizontal	136	1.01	-				
PK	4.92278G	47.21	74.00	-26.79	3.73	3	Horizontal	136	1.01	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2412MHz_TX

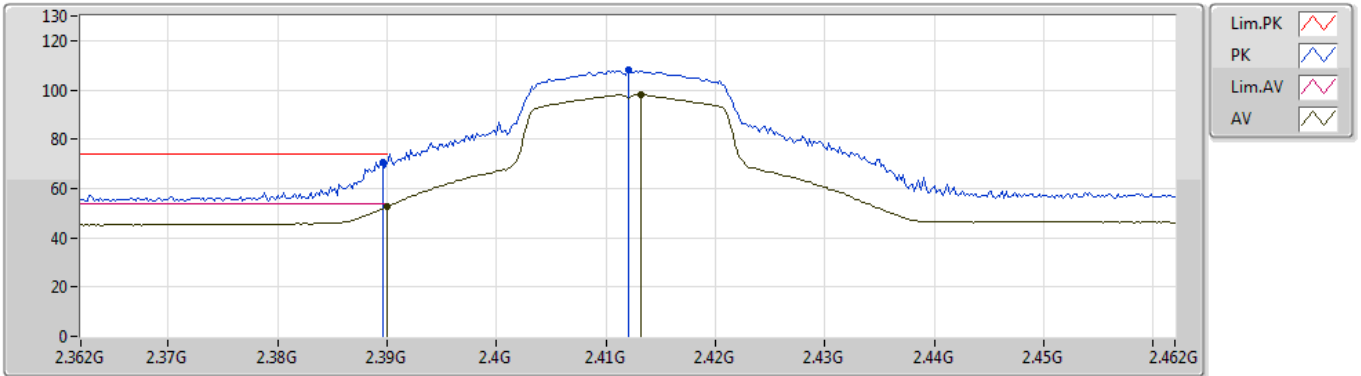


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	46.97	54.00	-7.03	31.86	3	Vertical	300	2.80	-				
AV	2.4112G	88.21	Inf	-Inf	31.93	3	Vertical	300	2.80	-				
PK	2.39G	61.82	74.00	-12.18	31.86	3	Vertical	300	2.80	-				
PK	2.4122G	97.99	Inf	-Inf	31.93	3	Vertical	300	2.80	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2412MHz_TX

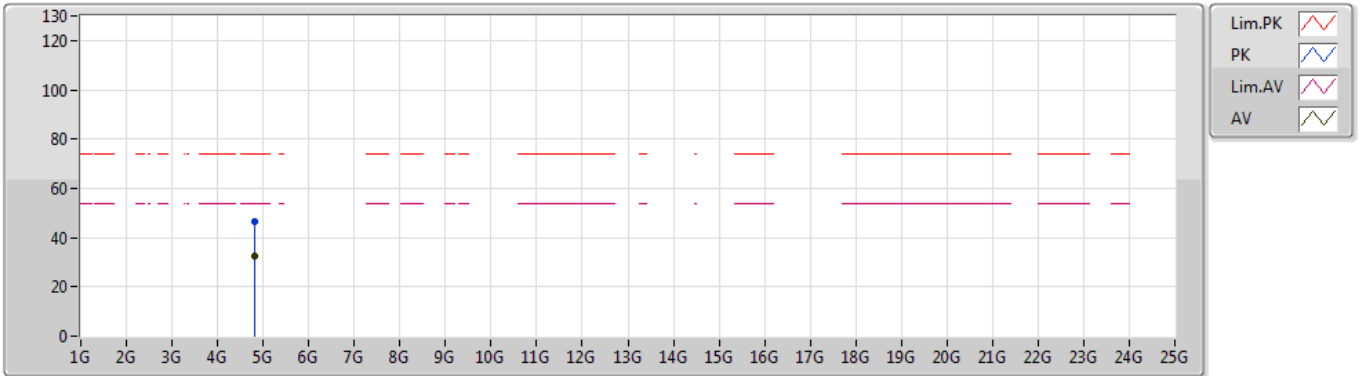


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	52.45	54.00	-1.55	31.86	3	Horizontal	55	1.35	-				
AV	2.4132G	97.99	Inf	-Inf	31.94	3	Horizontal	55	1.35	-				
PK	2.3896G	70.45	74.00	-3.55	31.86	3	Horizontal	55	1.35	-				
PK	2.412G	107.88	Inf	-Inf	31.93	3	Horizontal	55	1.35	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2412MHz_TX

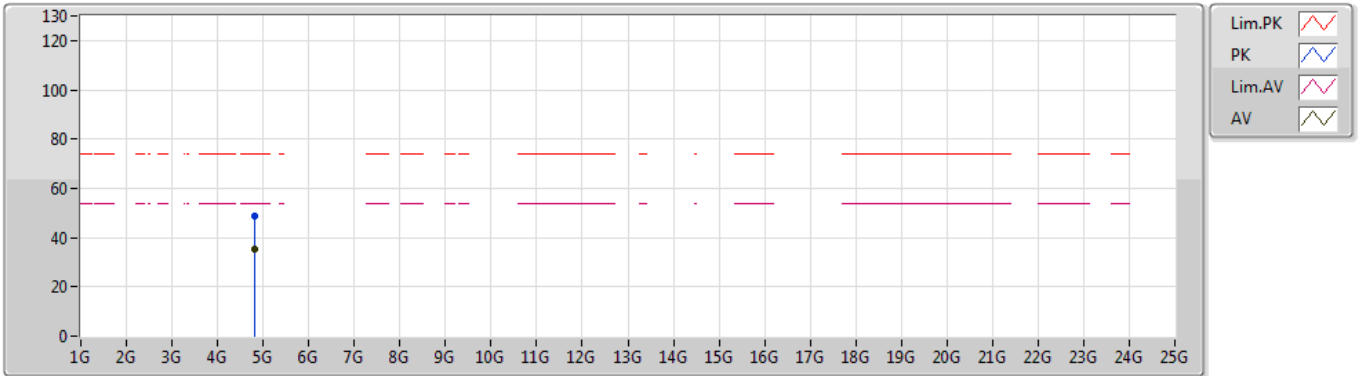


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.82404G	32.46	54.00	-21.54	3.49	3	Vertical	122	2.99	-				
PK	4.82398G	46.66	74.00	-27.34	3.49	3	Vertical	122	2.99	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2412MHz_TX

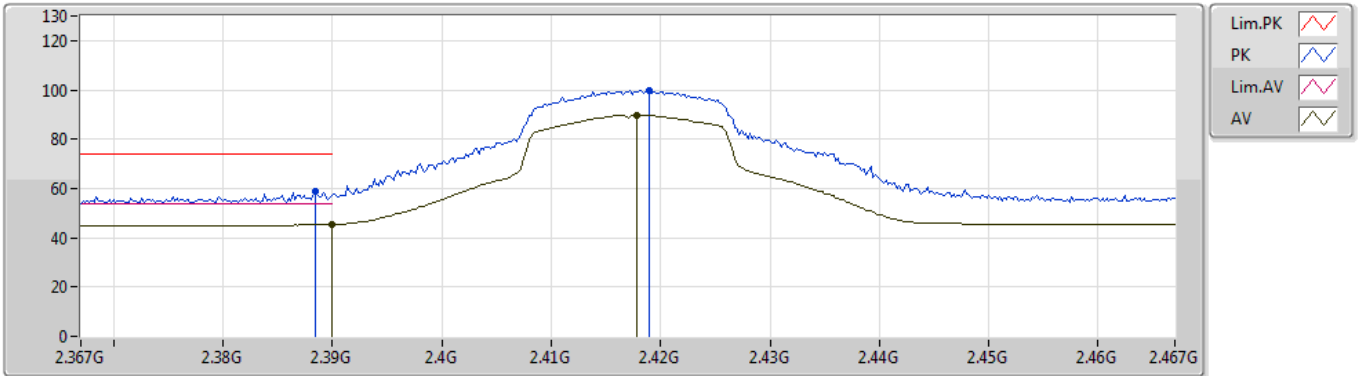


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.82416G	35.19	54.00	-18.81	3.49	3	Horizontal	99	2.37	-				
PK	4.82426G	49.01	74.00	-24.99	3.49	3	Horizontal	99	2.37	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2417MHz_TX

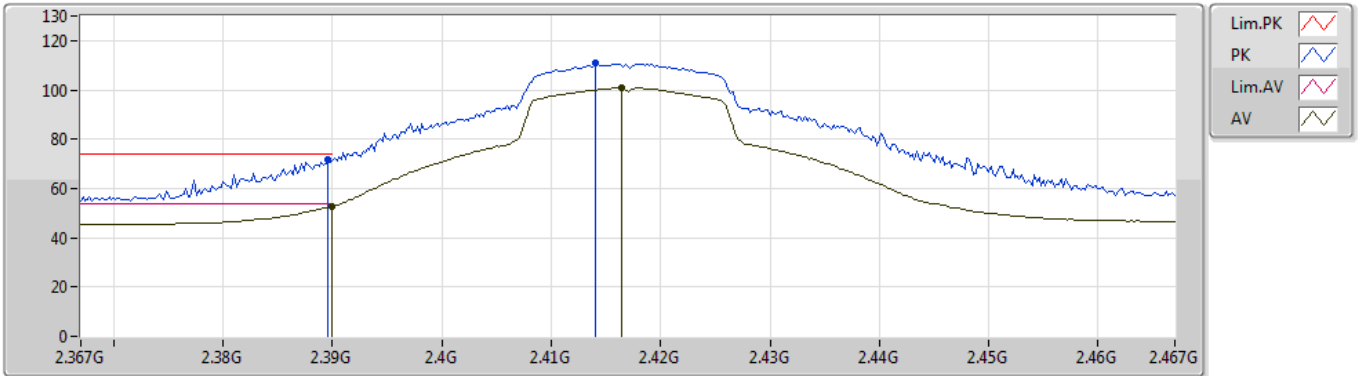


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	45.40	54.00	-8.60	31.86	3	Vertical	324	1.46	-				
AV	2.4178G	89.84	Inf	-Inf	31.95	3	Vertical	324	1.46	-				
PK	2.3884G	58.78	74.00	-15.22	31.85	3	Vertical	324	1.46	-				
PK	2.419G	99.98	Inf	-Inf	31.96	3	Vertical	324	1.46	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2417MHz_TX

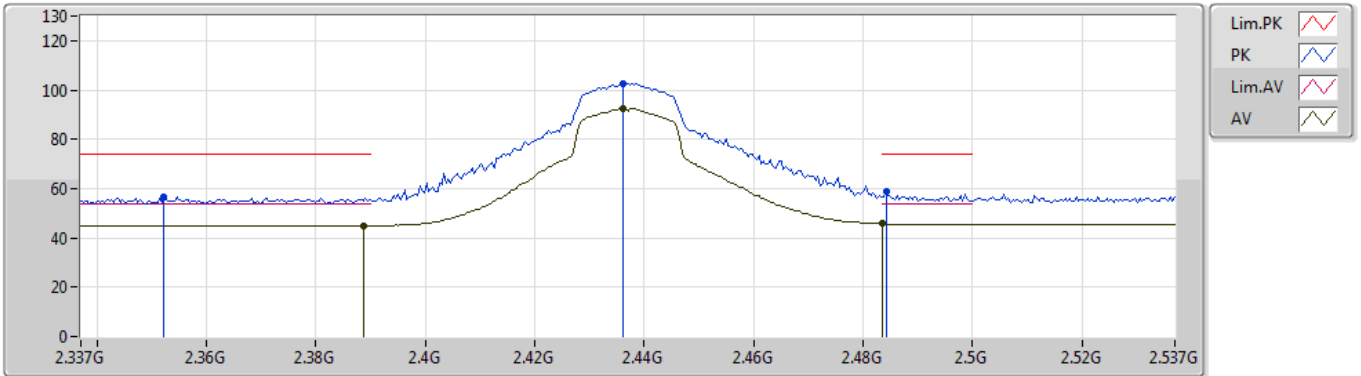


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	52.78	54.00	-1.22	31.86	3	Horizontal	53	1.36	-				
AV	2.4164G	100.77	Inf	-Inf	31.95	3	Horizontal	53	1.36	-				
PK	2.3896G	71.68	74.00	-2.32	31.86	3	Horizontal	53	1.36	-				
PK	2.414G	111.01	Inf	-Inf	31.94	3	Horizontal	53	1.36	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2437MHz_TX

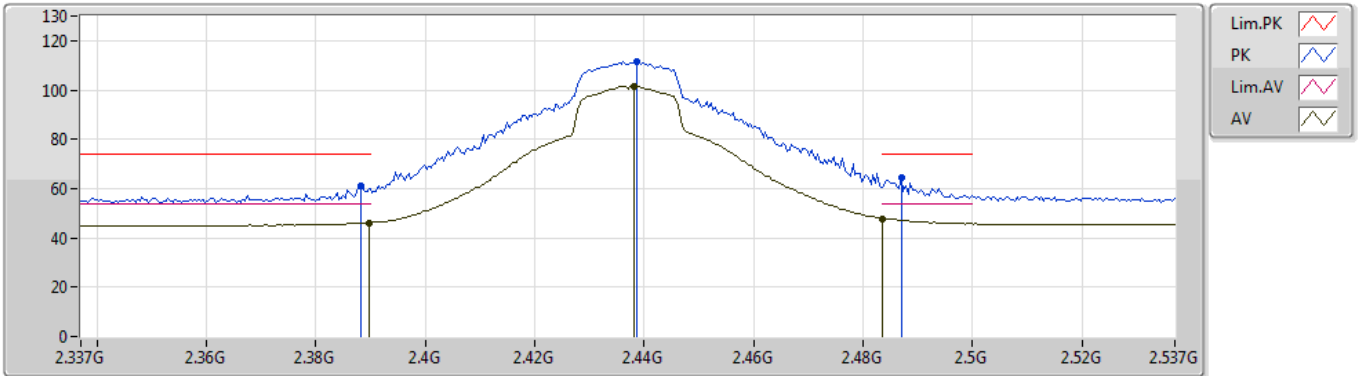


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3886G	44.92	54.00	-9.08	31.85	3	Vertical	96	1.53	-				
AV	2.4362G	92.60	Inf	-Inf	32.02	3	Vertical	96	1.53	-				
AV	2.4835G	45.77	54.00	-8.23	32.19	3	Vertical	96	1.53	-				
PK	2.3522G	56.59	74.00	-17.41	31.72	3	Vertical	96	1.53	-				
PK	2.4362G	102.61	Inf	-Inf	32.02	3	Vertical	96	1.53	-				
PK	2.4842G	58.90	74.00	-15.10	32.19	3	Vertical	96	1.53	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2437MHz_TX

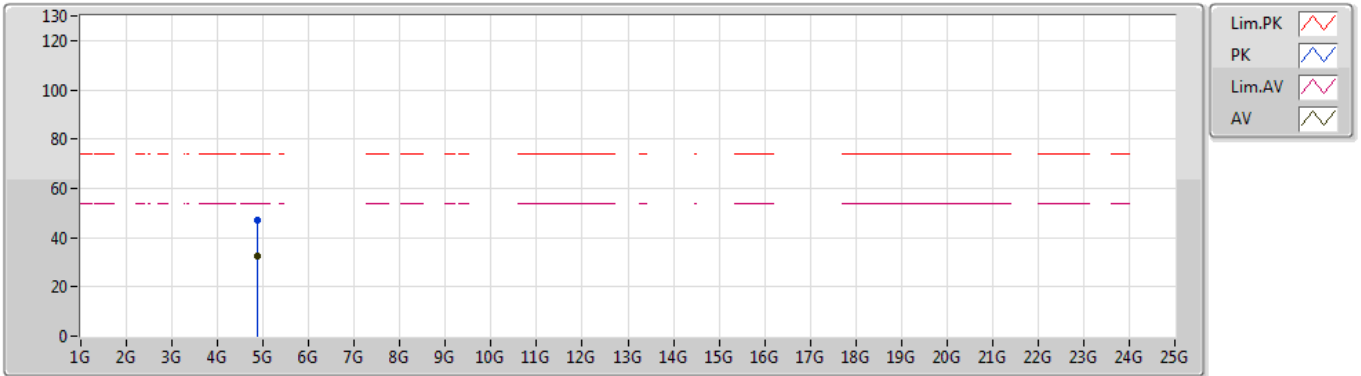


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.3898G	46.20	54.00	-7.80	31.86	3	Horizontal	49	1.09	-
AV	2.4382G	101.40	Inf	-Inf	32.02	3	Horizontal	49	1.09	-
AV	2.4835G	47.87	54.00	-6.13	32.19	3	Horizontal	49	1.09	-
PK	2.3882G	61.33	74.00	-12.67	31.85	3	Horizontal	49	1.09	-
PK	2.4386G	111.57	Inf	-Inf	32.03	3	Horizontal	49	1.09	-
PK	2.487G	64.18	74.00	-9.82	32.20	3	Horizontal	49	1.09	-

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2437MHz_TX

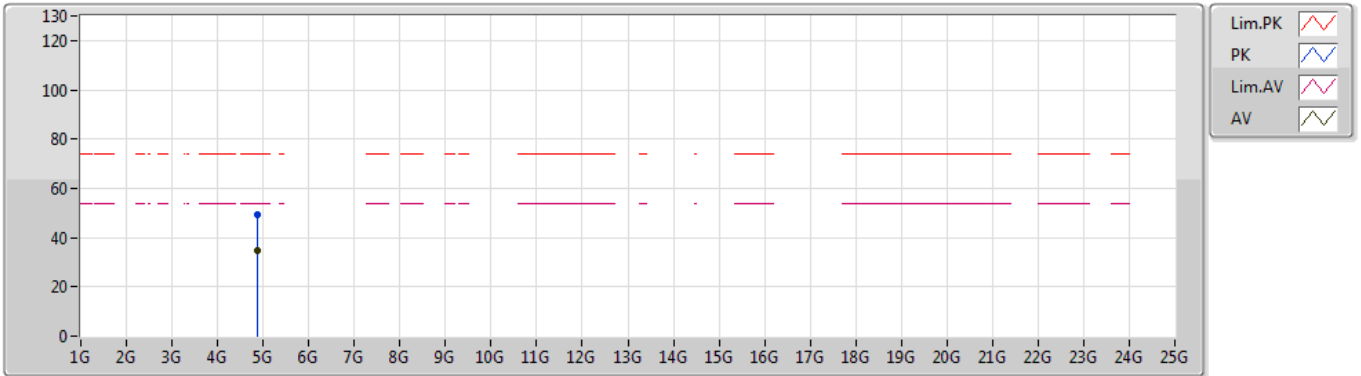


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.8717G	32.46	54.00	-21.54	3.61	3	Vertical	208	2.89	-				
PK	4.87648G	46.92	74.00	-27.08	3.62	3	Vertical	208	2.89	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2437MHz_TX

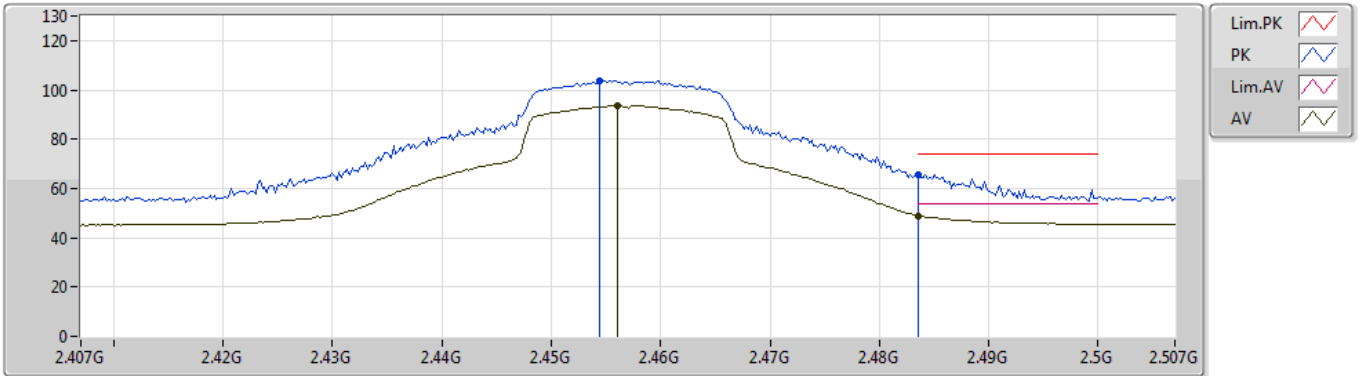


Type	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.87392G	34.74	54.00	-19.26	3.61	3	Horizontal	133	1.21	-				
PK	4.87794G	49.48	74.00	-24.52	3.62	3	Horizontal	133	1.21	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2457MHz_TX

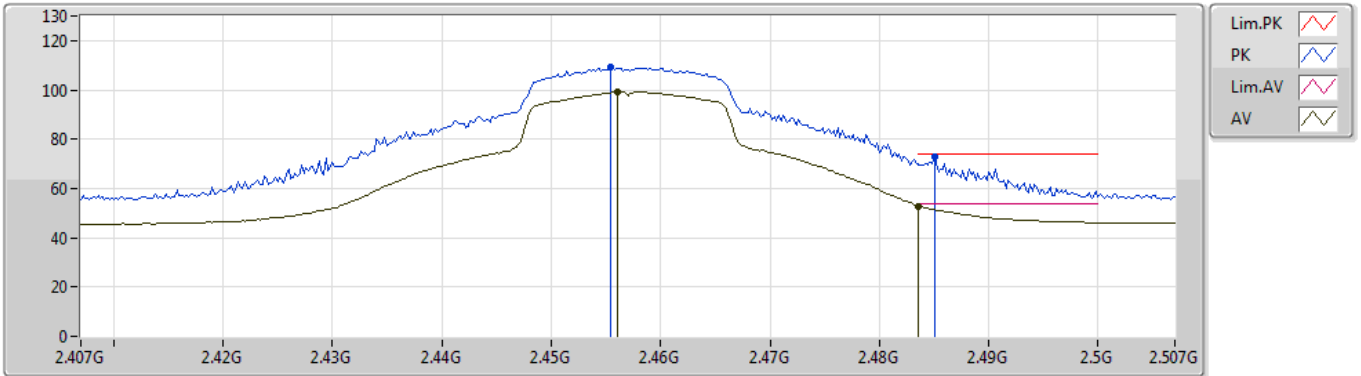


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.456G	93.67	Inf	-Inf	32.09	3	Vertical	176	2.87	-				
AV	2.4835G	48.96	54.00	-5.04	32.19	3	Vertical	176	2.87	-				
PK	2.4544G	103.91	Inf	-Inf	32.08	3	Vertical	176	2.87	-				
PK	2.4835G	65.84	74.00	-8.16	32.19	3	Vertical	176	2.87	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2457MHz_TX

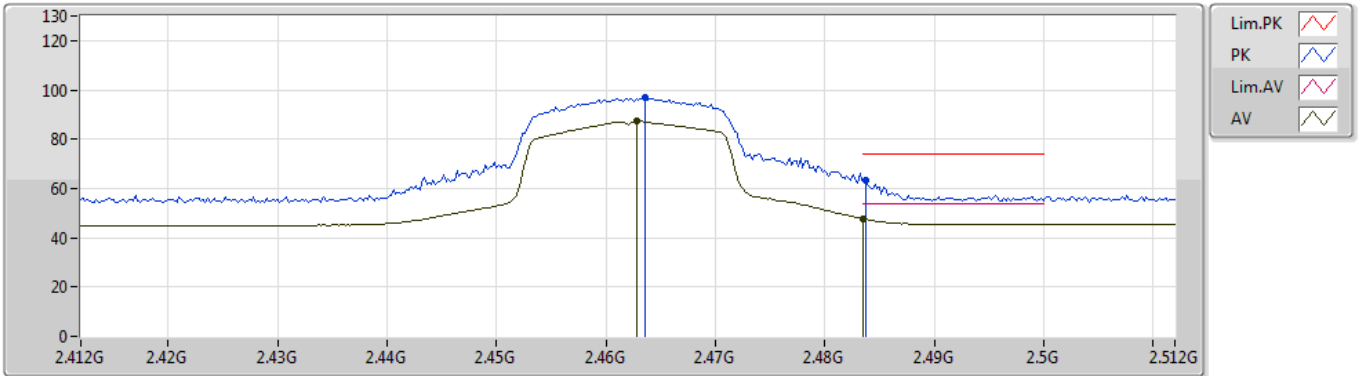


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.456G	99.29	Inf	-Inf	32.09	3	Horizontal	137	1.01	-				
AV	2.4836G	52.67	54.00	-1.33	32.19	3	Horizontal	137	1.01	-				
PK	2.4554G	109.31	Inf	-Inf	32.08	3	Horizontal	137	1.01	-				
PK	2.485G	72.58	74.00	-1.42	32.19	3	Horizontal	137	1.01	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2462MHz_TX

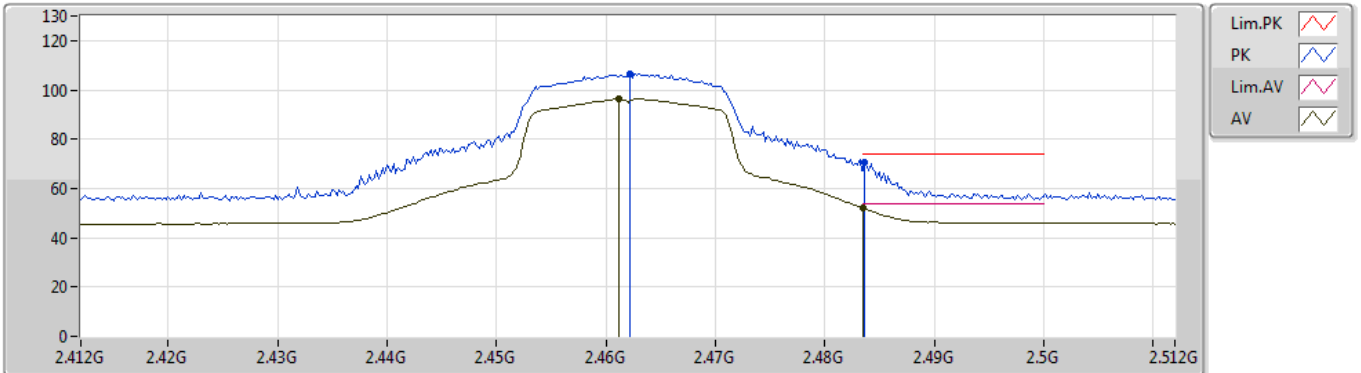


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4628G	87.22	Inf	-Inf	32.11	3	Vertical	99	1.73	-				
AV	2.4835G	47.86	54.00	-6.14	32.19	3	Vertical	99	1.73	-				
PK	2.4636G	96.89	Inf	-Inf	32.11	3	Vertical	99	1.73	-				
PK	2.4838G	63.48	74.00	-10.52	32.19	3	Vertical	99	1.73	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2462MHz_TX

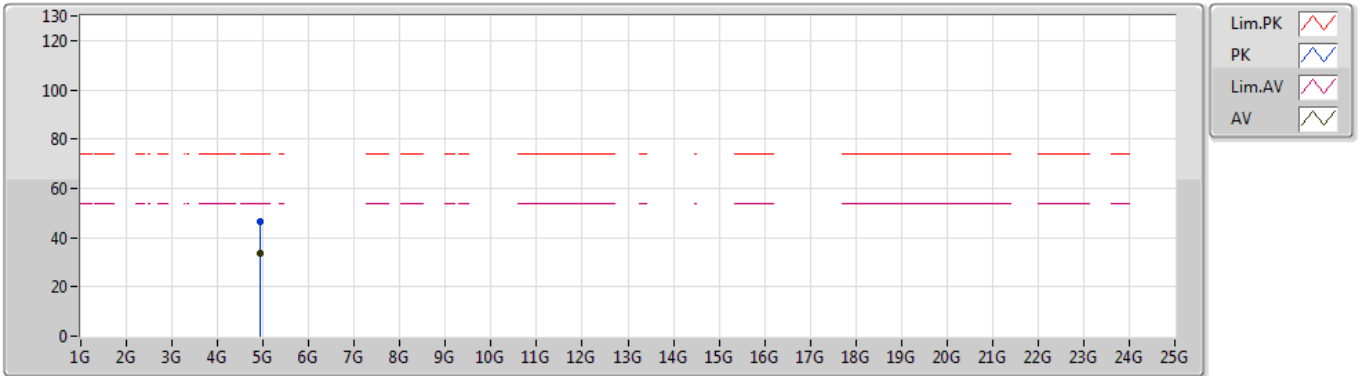


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4612G	96.44	Inf	-Inf	32.11	3	Horizontal	130	2.25	-				
AV	2.4835G	52.07	54.00	-1.93	32.19	3	Horizontal	130	2.25	-				
PK	2.4622G	106.44	Inf	-Inf	32.11	3	Horizontal	130	2.25	-				
PK	2.4836G	70.63	74.00	-3.37	32.19	3	Horizontal	130	2.25	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2462MHz_TX

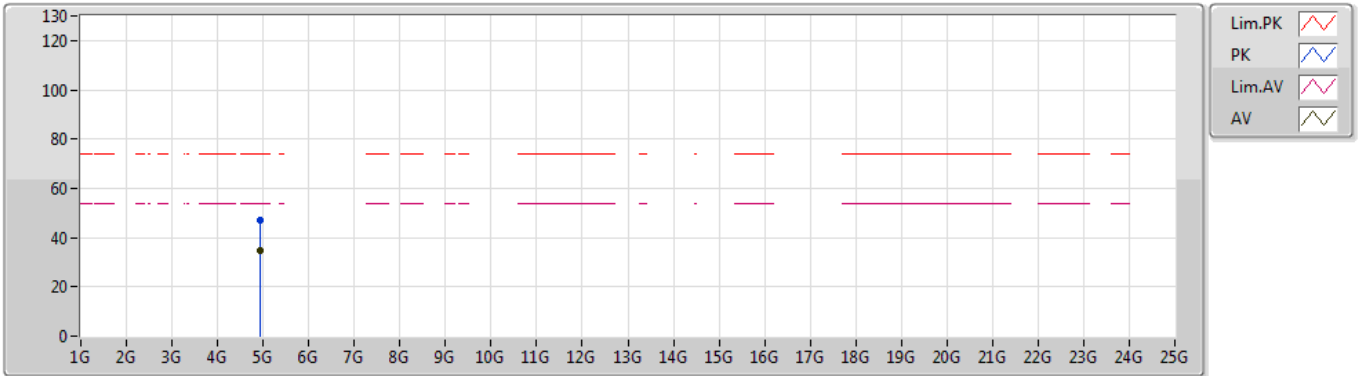


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.92142G	33.54	54.00	-20.46	3.73	3	Vertical	79	2.09	-				
PK	4.92148G	46.26	74.00	-27.74	3.73	3	Vertical	79	2.09	-				

802.11n HT20_Nss1,(MCS0)_1TX

22/05/2019

2462MHz_TX

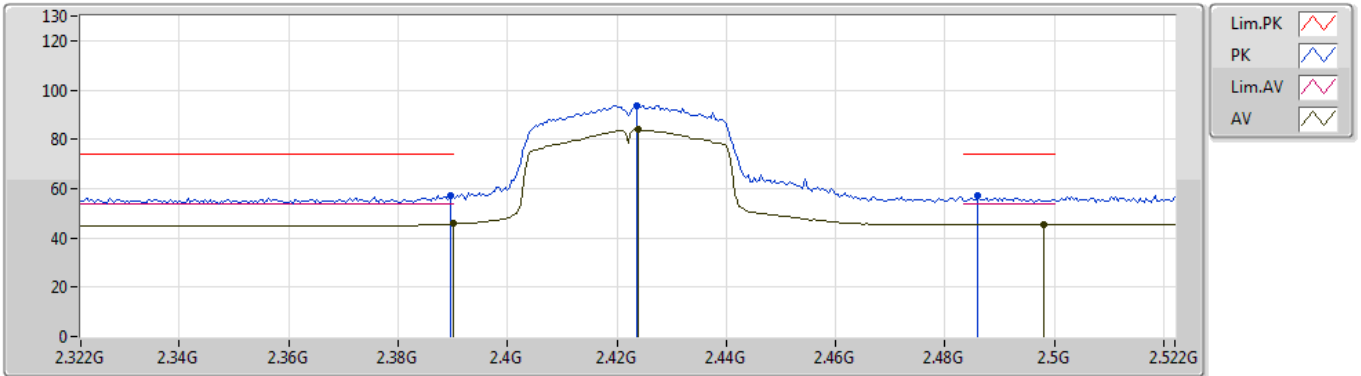


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.9231G	34.65	54.00	-19.35	3.73	3	Horizontal	199	2.49	-				
PK	4.91938G	46.83	74.00	-27.17	3.72	3	Horizontal	199	2.49	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2422MHz_TX

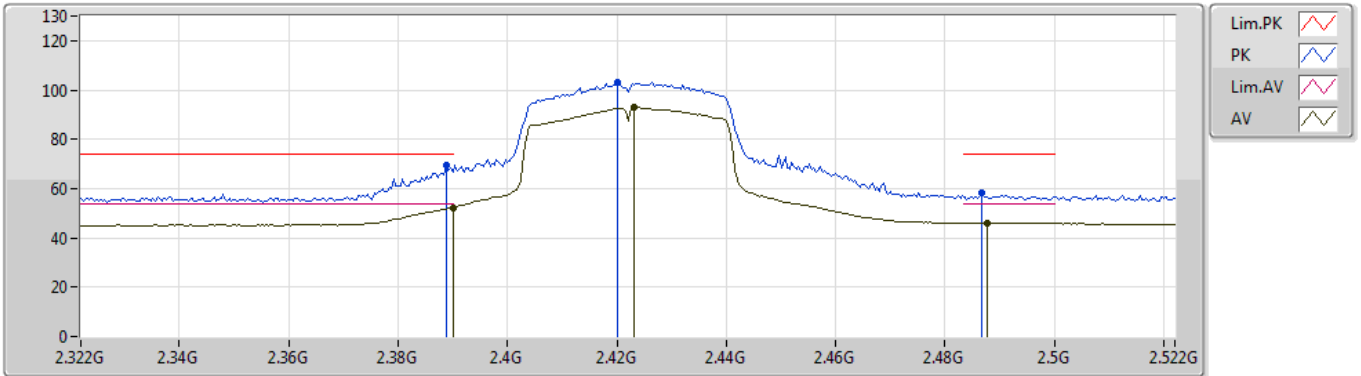


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.39G	45.76	54.00	-8.24	31.86	3	Vertical	97	1.79	-				
AV	2.424G	83.95	Inf	-Inf	31.98	3	Vertical	97	1.79	-				
AV	2.498G	45.45	54.00	-8.55	32.24	3	Vertical	97	1.79	-				
PK	2.3896G	57.25	74.00	-16.75	31.86	3	Vertical	97	1.79	-				
PK	2.4236G	93.60	Inf	-Inf	31.98	3	Vertical	97	1.79	-				
PK	2.486G	57.26	74.00	-16.74	32.20	3	Vertical	97	1.79	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2422MHz_TX

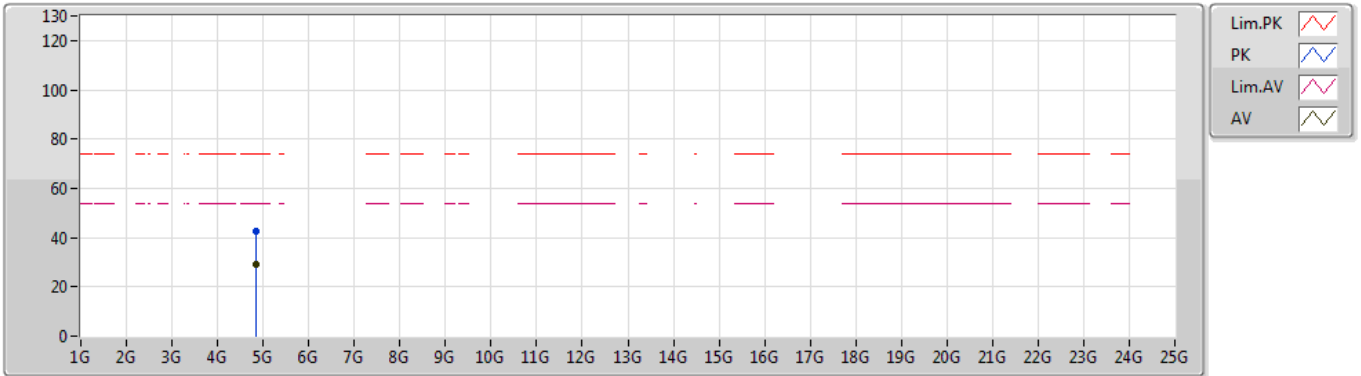


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.39G	52.37	54.00	-1.63	31.86	3	Horizontal	57	1.00	-
AV	2.4232G	92.81	Inf	-Inf	31.98	3	Horizontal	57	1.00	-
AV	2.4876G	45.99	54.00	-8.01	32.20	3	Horizontal	57	1.00	-
PK	2.3888G	69.36	74.00	-4.64	31.85	3	Horizontal	57	1.00	-
PK	2.42G	103.36	Inf	-Inf	31.96	3	Horizontal	57	1.00	-
PK	2.4868G	58.03	74.00	-15.97	32.20	3	Horizontal	57	1.00	-

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2422MHz_TX

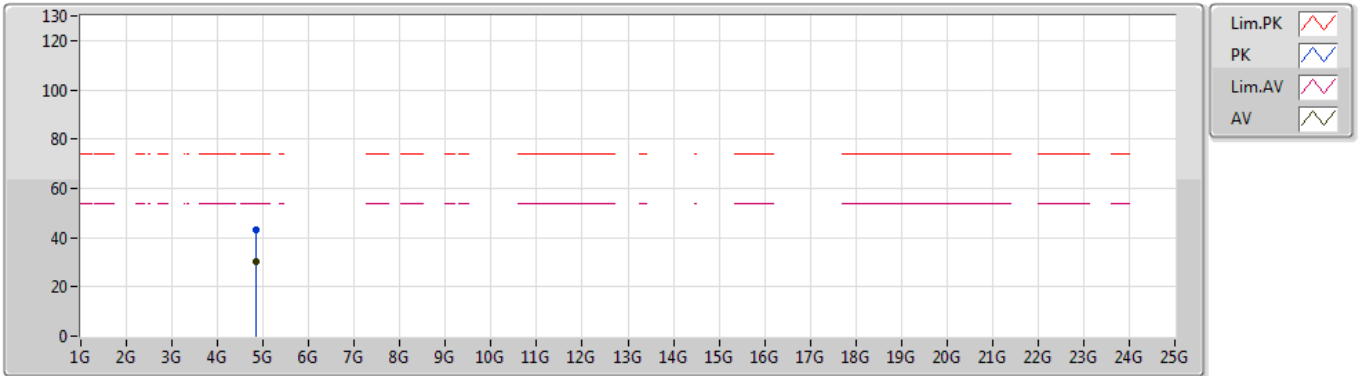


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.8455G	29.09	54.00	-24.91	3.54	3	Vertical	278	2.26	-				
PK	4.84648G	42.69	74.00	-31.31	3.54	3	Vertical	269	2.47	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2422MHz_TX

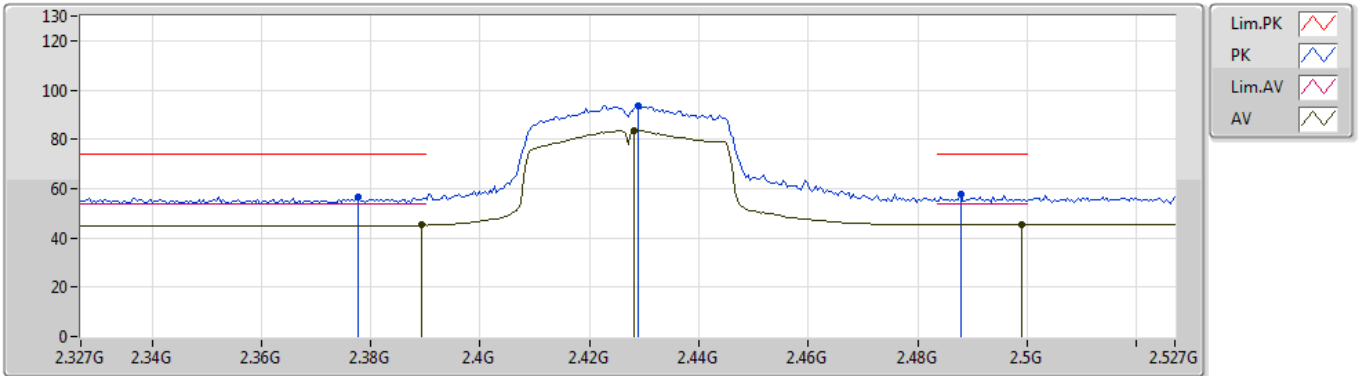


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.84402G	30.28	54.00	-23.72	3.54	3	Horizontal	99	2.24	-				
PK	4.84468G	43.26	74.00	-30.74	3.54	3	Horizontal	99	2.24	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2427MHz_TX

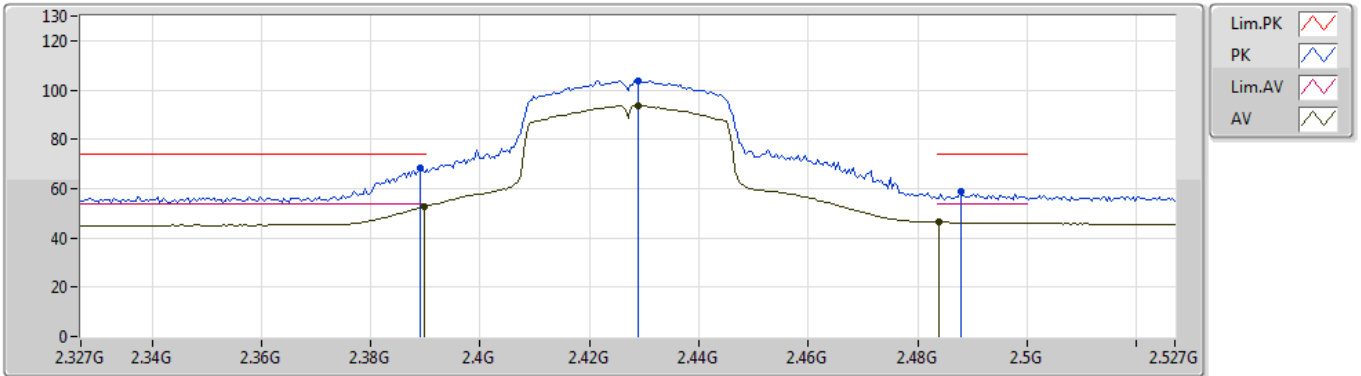


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3894G	45.18	54.00	-8.82	31.85	3	Vertical	97	1.80	-				
AV	2.4282G	83.58	Inf	-Inf	31.99	3	Vertical	97	1.80	-				
AV	2.499G	45.37	54.00	-8.63	32.25	3	Vertical	97	1.80	-				
PK	2.3778G	56.53	74.00	-17.47	31.81	3	Vertical	97	1.80	-				
PK	2.429G	93.62	Inf	-Inf	31.99	3	Vertical	97	1.80	-				
PK	2.4878G	57.72	74.00	-16.28	32.20	3	Vertical	97	1.80	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2427MHz_TX

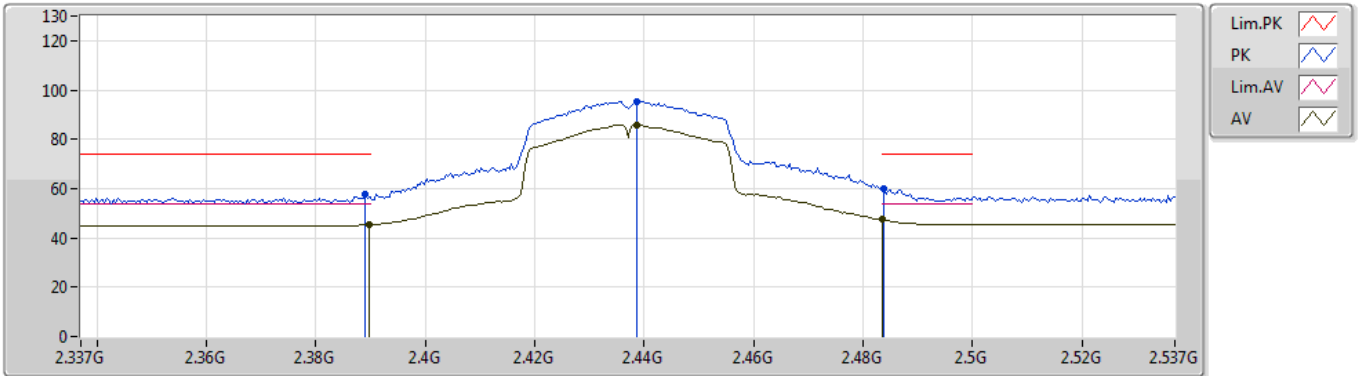


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3898G	52.62	54.00	-1.38	31.86	3	Horizontal	52	1.01	-				
AV	2.429G	93.63	Inf	-Inf	31.99	3	Horizontal	52	1.01	-				
AV	2.4838G	46.36	54.00	-7.64	32.19	3	Horizontal	52	1.01	-				
PK	2.389G	68.61	74.00	-5.39	31.85	3	Horizontal	52	1.01	-				
PK	2.429G	103.86	Inf	-Inf	31.99	3	Horizontal	52	1.01	-				
PK	2.4878G	59.08	74.00	-14.92	32.20	3	Horizontal	52	1.01	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2437MHz_TX

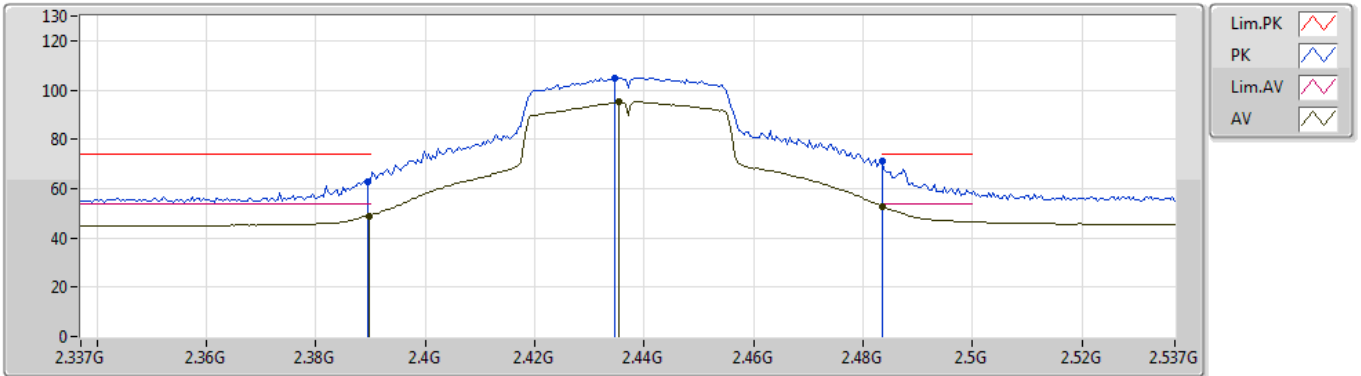


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3898G	45.28	54.00	-8.72	31.86	3	Vertical	94	1.50	-				
AV	2.4386G	85.90	Inf	-Inf	32.03	3	Vertical	94	1.50	-				
AV	2.4835G	47.36	54.00	-6.64	32.19	3	Vertical	94	1.50	-				
PK	2.389G	57.45	74.00	-16.55	31.85	3	Vertical	94	1.50	-				
PK	2.4386G	95.30	Inf	-Inf	32.03	3	Vertical	94	1.50	-				
PK	2.4838G	60.05	74.00	-13.95	32.19	3	Vertical	94	1.50	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2437MHz_TX

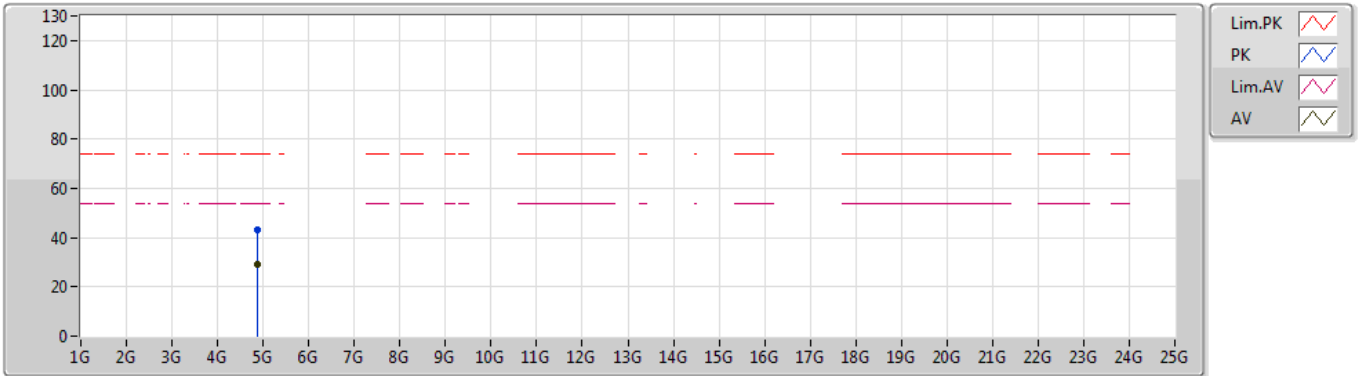


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3898G	48.97	54.00	-5.03	31.86	3	Horizontal	51	1.18	-				
AV	2.4354G	95.25	Inf	-Inf	32.01	3	Horizontal	51	1.18	-				
AV	2.4835G	52.88	54.00	-1.12	32.19	3	Horizontal	51	1.18	-				
PK	2.3894G	62.98	74.00	-11.02	31.85	3	Horizontal	51	1.18	-				
PK	2.4346G	104.94	Inf	-Inf	32.01	3	Horizontal	51	1.18	-				
PK	2.4835G	71.21	74.00	-2.79	32.19	3	Horizontal	51	1.18	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2437MHz_TX

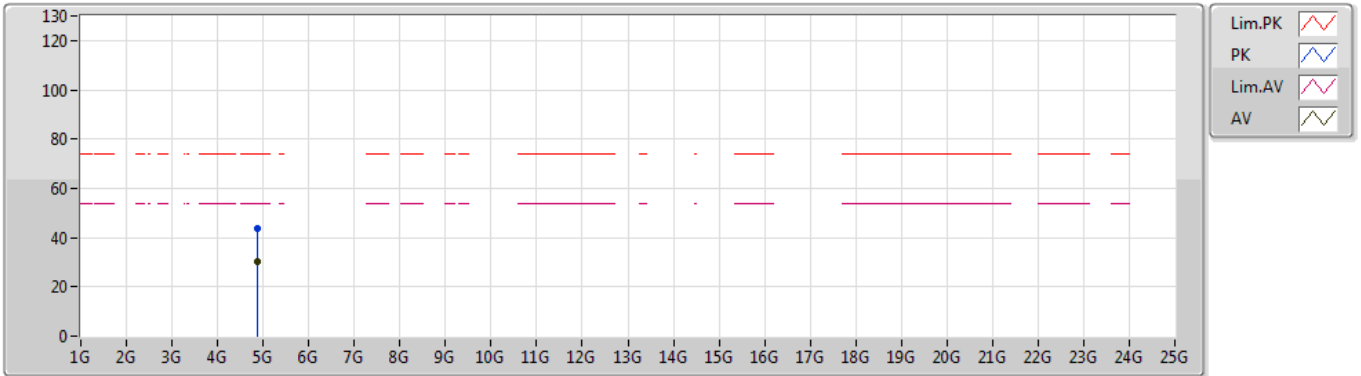


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.8716G	29.07	54.00	-24.93	3.61	3	Vertical	319	2.20	-				
PK	4.87146G	43.02	74.00	-30.98	3.61	3	Vertical	319	2.20	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2437MHz_TX

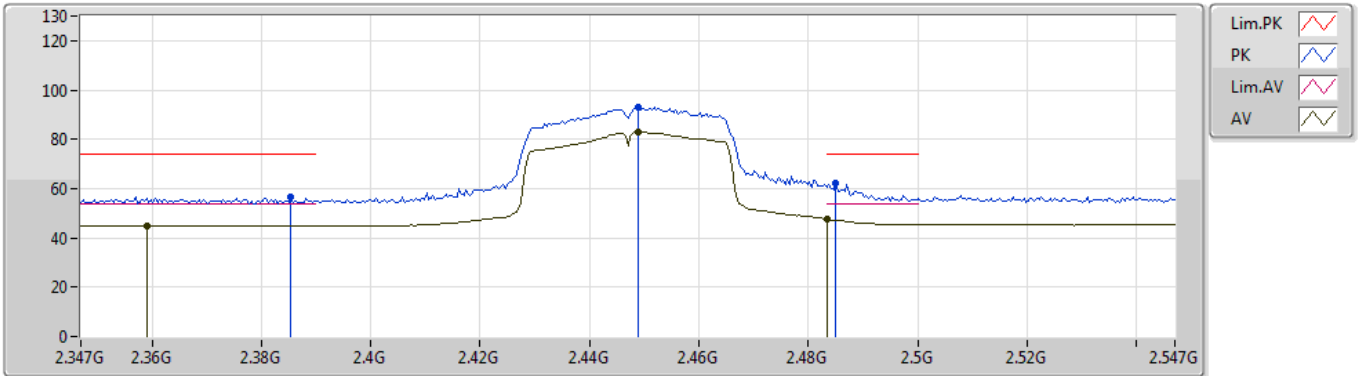


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.87384G	30.48	54.00	-23.52	3.61	3	Horizontal	135	1.01	-				
PK	4.87014G	43.69	74.00	-30.31	3.61	3	Horizontal	135	1.01	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2447MHz_TX

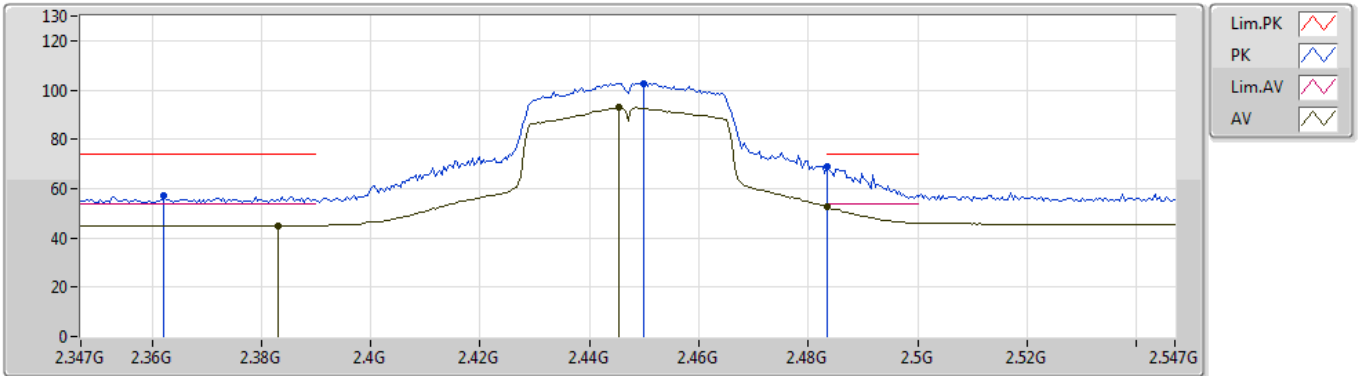


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.359G	44.80	54.00	-9.20	31.74	3	Vertical	99	1.78	-				
AV	2.449G	83.01	Inf	-Inf	32.07	3	Vertical	99	1.78	-				
AV	2.4835G	47.47	54.00	-6.53	32.19	3	Vertical	99	1.78	-				
PK	2.3854G	56.80	74.00	-17.20	31.83	3	Vertical	99	1.78	-				
PK	2.449G	92.97	Inf	-Inf	32.07	3	Vertical	99	1.78	-				
PK	2.485G	62.03	74.00	-11.97	32.19	3	Vertical	99	1.78	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2447MHz_TX

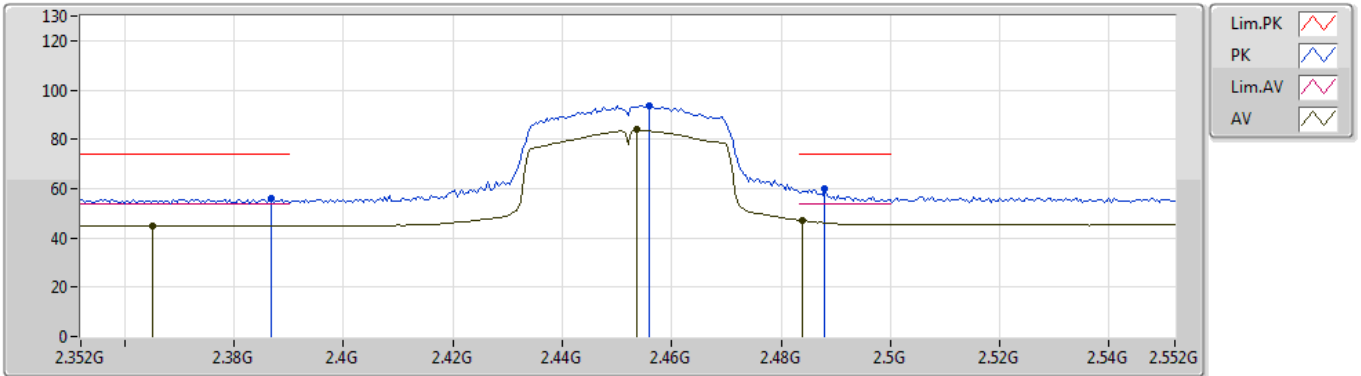


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.383G	45.09	54.00	-8.91	31.83	3	Horizontal	54	1.78	-				
AV	2.4454G	92.92	Inf	-Inf	32.05	3	Horizontal	54	1.78	-				
AV	2.4835G	52.57	54.00	-1.43	32.19	3	Horizontal	54	1.78	-				
PK	2.3622G	57.19	74.00	-16.81	31.76	3	Horizontal	54	1.78	-				
PK	2.4498G	102.82	Inf	-Inf	32.07	3	Horizontal	54	1.78	-				
PK	2.4835G	69.03	74.00	-4.97	32.19	3	Horizontal	54	1.78	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2452MHz_TX

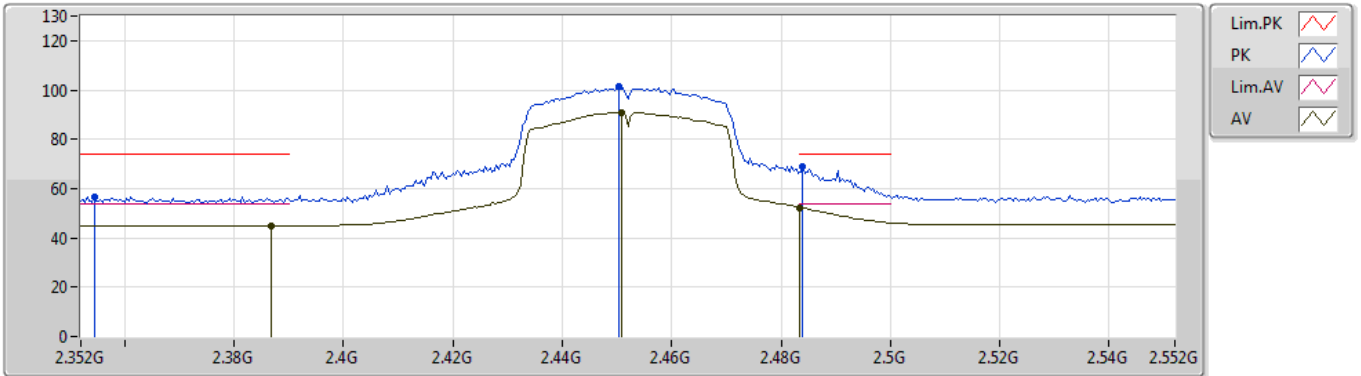


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3652G	44.87	54.00	-9.13	31.77	3	Vertical	304	2.69	-				
AV	2.4536G	83.85	Inf	-Inf	32.08	3	Vertical	304	2.69	-				
AV	2.484G	47.04	54.00	-6.96	32.19	3	Vertical	304	2.69	-				
PK	2.3868G	56.20	74.00	-17.80	31.84	3	Vertical	304	2.69	-				
PK	2.456G	93.71	Inf	-Inf	32.09	3	Vertical	304	2.69	-				
PK	2.488G	59.78	74.00	-14.22	32.20	3	Vertical	304	2.69	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2452MHz_TX

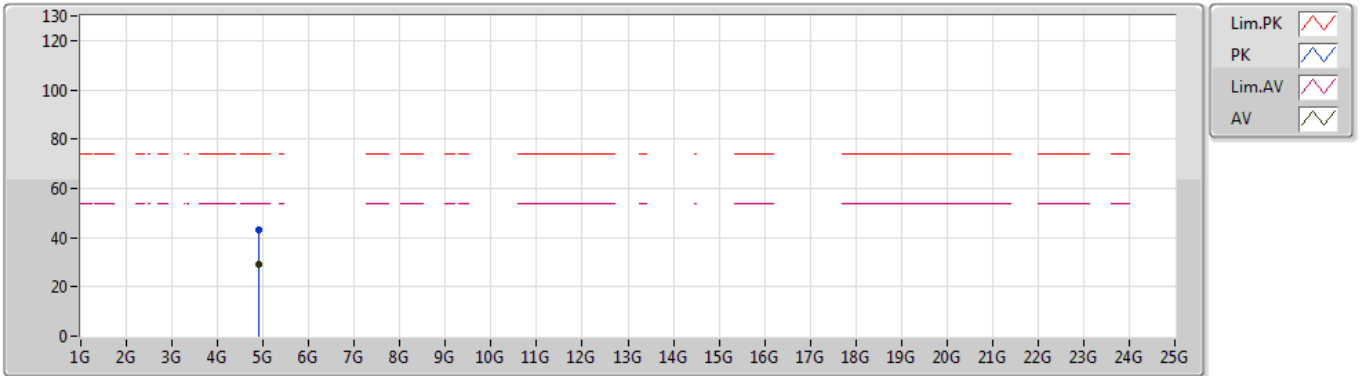


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3868G	44.98	54.00	-9.02	31.84	3	Horizontal	59	1.50	-				
AV	2.4508G	90.96	Inf	-Inf	32.07	3	Horizontal	59	1.50	-				
AV	2.4835G	52.26	54.00	-1.74	32.19	3	Horizontal	59	1.50	-				
PK	2.3544G	56.79	74.00	-17.21	31.73	3	Horizontal	59	1.50	-				
PK	2.4504G	101.29	Inf	-Inf	32.07	3	Horizontal	59	1.50	-				
PK	2.484G	69.03	74.00	-4.97	32.19	3	Horizontal	59	1.50	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2452MHz_TX

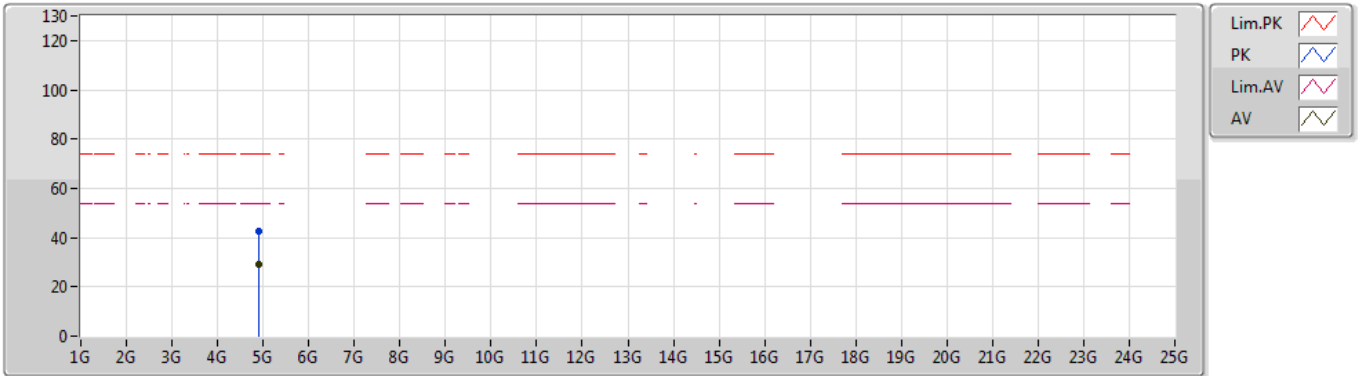


Type	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.90678G	29.25	54.00	-24.75	3.69	3	Vertical	281	1.67	-				
PK	4.90176G	43.03	74.00	-30.97	3.68	3	Vertical	281	1.67	-				

802.11n HT40_Nss1,(MCS0)_1TX

22/05/2019

2452MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.90708G	29.32	54.00	-24.68	3.69	3	Horizontal	93	2.27	-				
PK	4.90024G	42.68	74.00	-31.32	3.68	3	Horizontal	93	2.27	-				

Summary

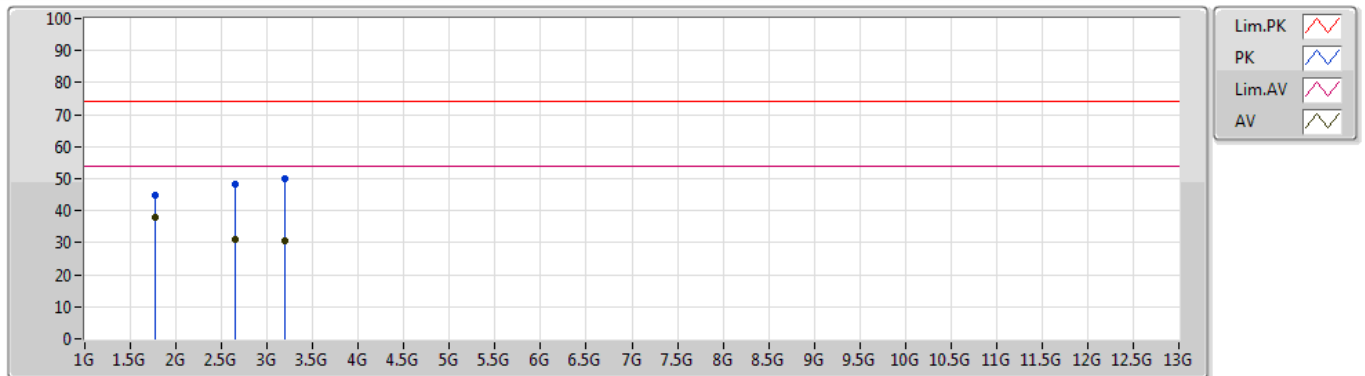
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Condition
Mode 1	Pass	AV	1.765G	37.78	54.00	-16.22	-1.83	Vertical
Mode 2	Pass	AV	2.503G	49.42	54.00	-4.58	1.71	Horizontal

Mode Configure

Mode	Configure
Mode 1	2.4G+BT
Mode 2	5G+BT

Mode 1

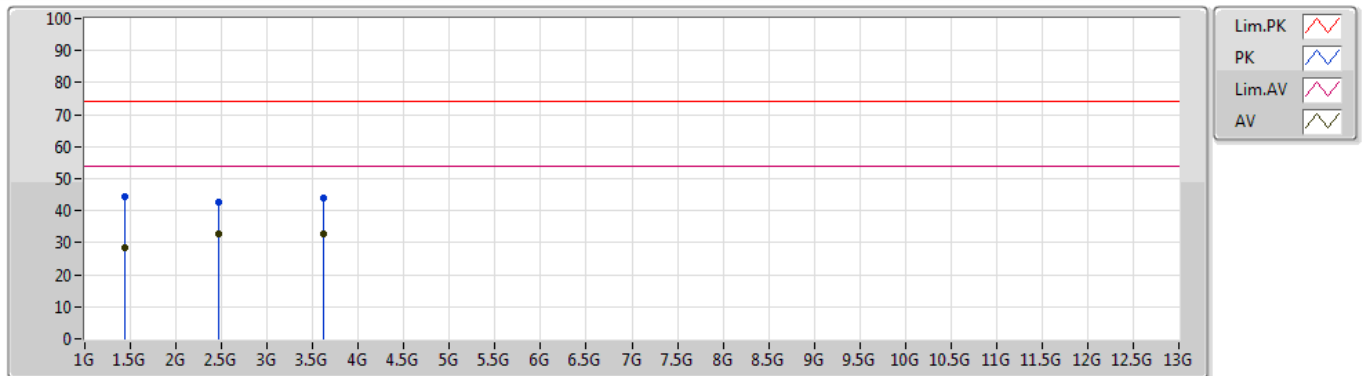
28/05/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	1.765G	37.78	54.00	-16.22	-1.83	3	Vertical	360	1.50	-				
AV	2.656G	31.09	54.00	-22.91	2.23	3	Vertical	17	1.14	-				
AV	3.187G	30.69	54.00	-23.31	4.07	3	Vertical	113	1.92	-				
PK	1.765G	44.91	74.00	-29.09	-1.83	3	Vertical	360	1.50	-				
PK	2.656G	48.29	74.00	-25.71	2.23	3	Vertical	17	1.14	-				
PK	3.187G	49.97	74.00	-24.03	4.07	3	Vertical	113	1.92	-				

Mode 1

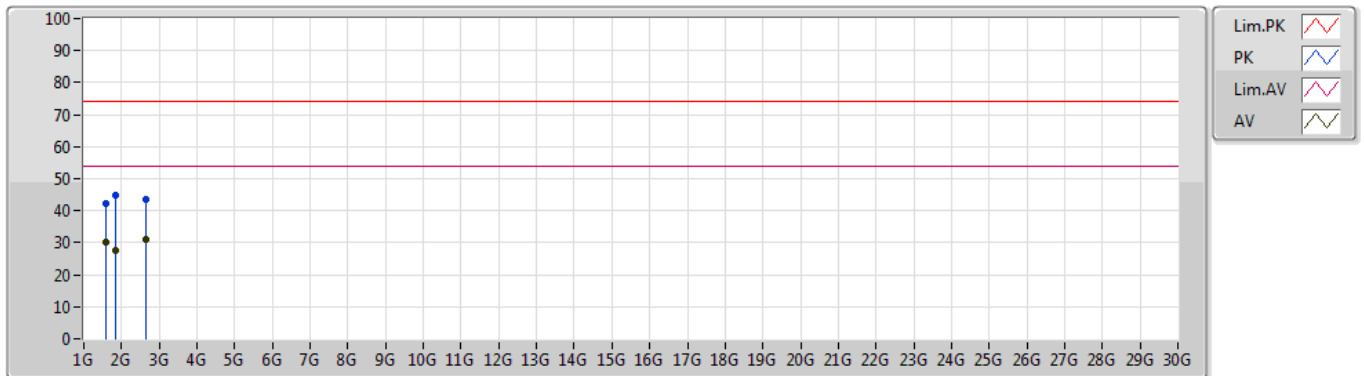
28/05/2019



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	1.435G	28.25	54.00	-25.75	-2.22	3	Horizontal	360	2.26	-				
AV	2.467G	32.68	54.00	-21.32	1.72	3	Horizontal	183	2.04	-				
AV	3.619G	32.62	54.00	-21.38	4.90	3	Horizontal	40	1.01	-				
PK	1.435G	44.39	74.00	-29.61	-2.22	3	Horizontal	360	2.26	-				
PK	2.467G	42.80	74.00	-31.20	1.72	3	Horizontal	183	2.04	-				
PK	3.619G	44.01	74.00	-29.99	4.90	3	Horizontal	40	1.01	-				

Mode 2

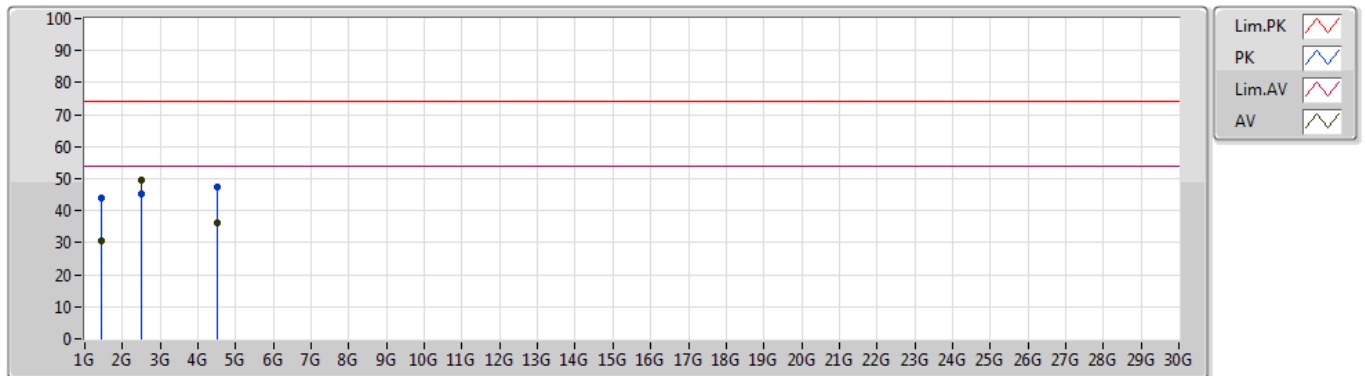
28/05/2019



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	1.594G	30.19	54.00	-23.81	-2.29	3	Vertical	240	1.79	-				
AV	1.855G	27.76	54.00	-26.24	-1.34	3	Vertical	70	1.18	-				
AV	2.656G	31.03	54.00	-22.97	2.23	3	Vertical	358	1.20	-				
PK	1.594G	42.34	74.00	-31.66	-2.29	3	Vertical	240	1.79	-				
PK	1.855G	44.81	74.00	-29.19	-1.34	3	Vertical	70	1.18	-				
PK	2.656G	43.57	74.00	-30.43	2.23	3	Vertical	358	1.20	-				

Mode 2

28/05/2019



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	1.435G	30.55	54.00	-23.45	-2.22	3	Horizontal	0	1.44	-				
AV	2.503G	49.42	54.00	-4.58	1.71	3	Horizontal	228	1.50	-				
AV	4.5G	36.23	54.00	-17.77	7.26	3	Horizontal	360	1.69	-				
PK	1.435G	44.01	74.00	-29.99	-2.22	3	Horizontal	0	1.44	-				
PK	2.503G	45.40	74.00	-28.60	1.71	3	Horizontal	228	1.50	-				
PK	4.5G	47.49	74.00	-26.51	7.26	3	Horizontal	360	1.69	-				