

FCC Test Report

FCC ID : 2AVXQ-PR800
Equipment : Home Gateway
Brand Name : RelyanceHub
Model Name : 800
Applicant : AM Technologies Inc.
44873 Falcon PI Suite 118, Sterling, VA 20166
Manufacturer : SFO Technologies pvt.ltd
Plot 43A, Cochin special economic zone,
kakkanad-682037
Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 25, 2019, and testing was started from Jan. 23, 2020 and completed on Jan. 30, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The 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
FR9D1731AC	01	Initial issue of report	Apr. 07, 2020

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Sam Tsai

Report Producer: Yunha Liou

1 General Description

1.1 Information

According to the Applicant's declaration of product application. There is a Bluetooth module in EUT and the Applicant is going to disable the Bluetooth Functionality by software for the end product.

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	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

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	Ethertronics	Prestta WLAN 1000802_1000813_1000817	Isolated Magnetic Dipole™ (IMD)	I-PEX	3.5

Note 1: The EUT has one antenna.

For 2.4GHz function:

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

Ant. 1 (port 1) could transmit/receive.

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11b	0.986	0.06	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.908	0.42	1.4m	1k
802.11n HT20	0.903	0.44	1.3m	1k
802.11n HT40	0.821	0.86	640.625u	3k

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

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			
☐	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
		TEL : 886-3-318-0787	FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward	19.2~21.0°C / 55~64%	30/Jan/2020
RF Conducted	TH01-HY	Lego	20.3~22.5°C / 55.2~56.3%	30/Jan/2020
Radiated	03CH01-HY	Edward	17.2~19.1°C / 58~65%	23/Jan/2020~ 24/Jan/2020

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	24V

2.2 Test Channel Mode

Test Software	Dos
---------------	-----

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	33
2417MHz	35
2437MHz	40
2457MHz	37
2462MHz	36
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	33
2417MHz	40
2437MHz	40
2457MHz	36
2462MHz	30
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	30
2417MHz	40
2437MHz	40
2457MHz	35
2462MHz	30
802.11n HT40_Nss1,(MCS0)_1TX	-
2422MHz	28
2427MHz	31
2437MHz	36
2447MHz	29
2452MHz	25

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	Adapter mode

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

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

2.4 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	DoC	-
2	Adapter for NB	DELL	HA65NM130	DoC	-
3	Adapter	Tri-Mag,LLC	L6R30-240	-	Note 1

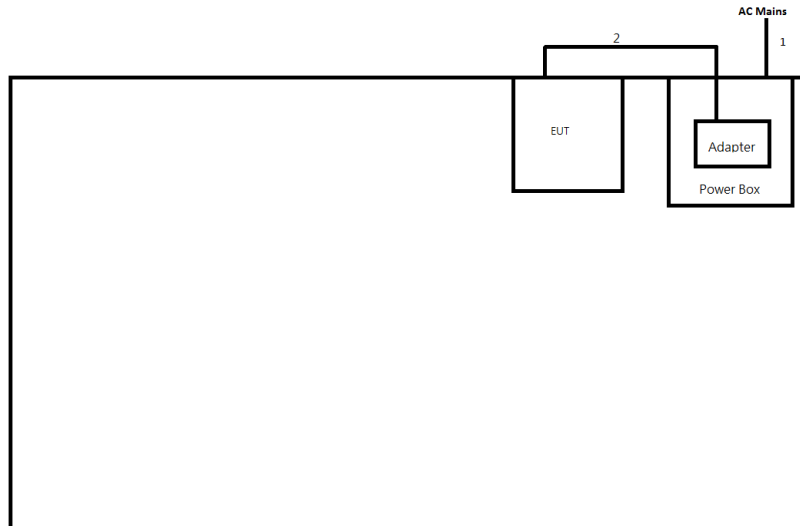
Note 1: No.3 was provided by customer.

Support Equipment – Radiated / AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	Tri-Mag,LLC	L6R30-240	-	Note 1

Note 1: No.1 was provided by customer.

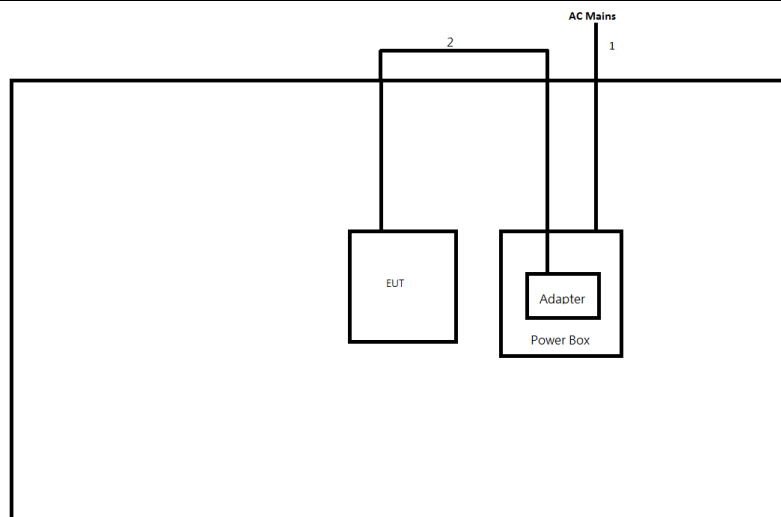
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

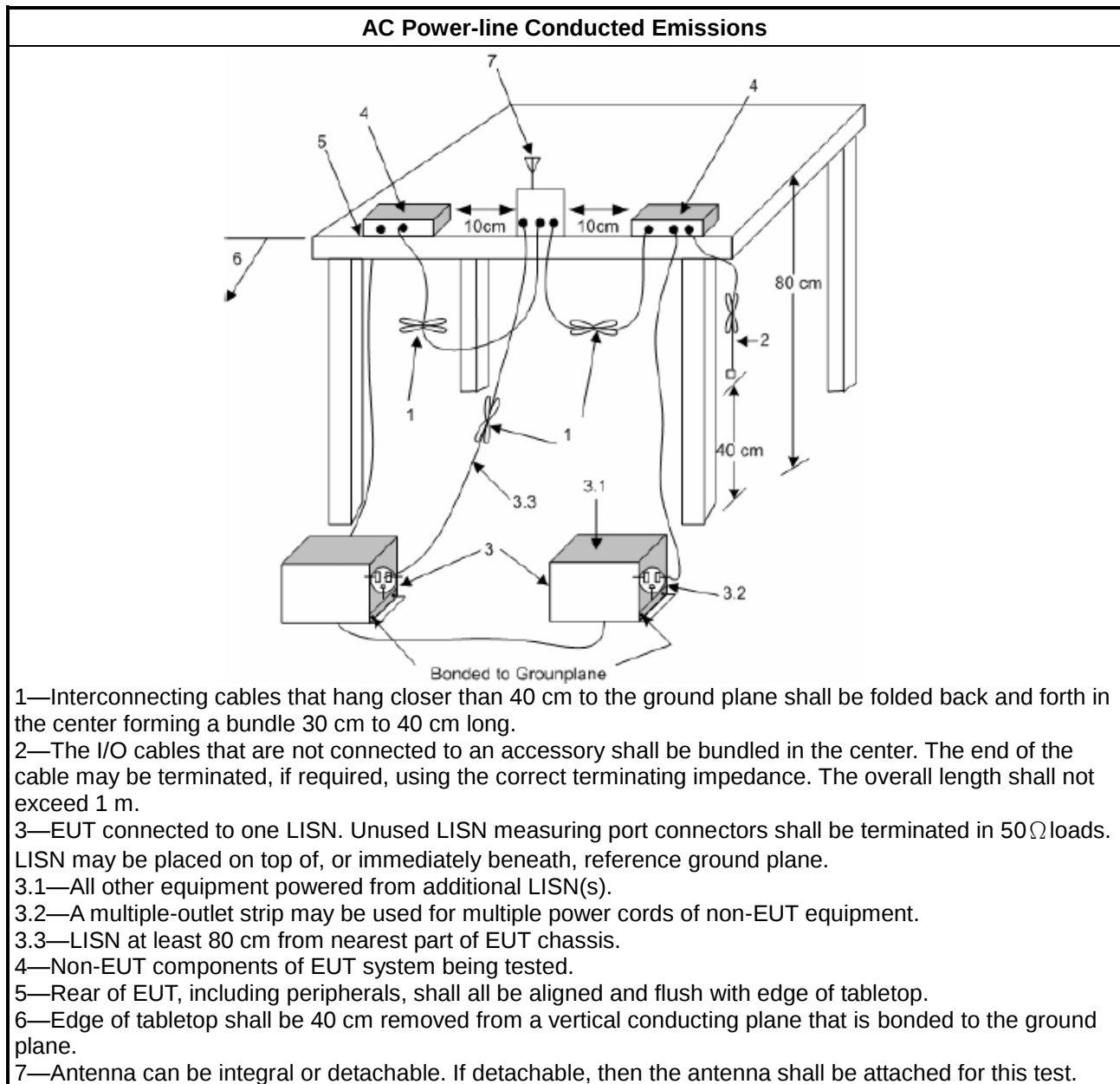
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

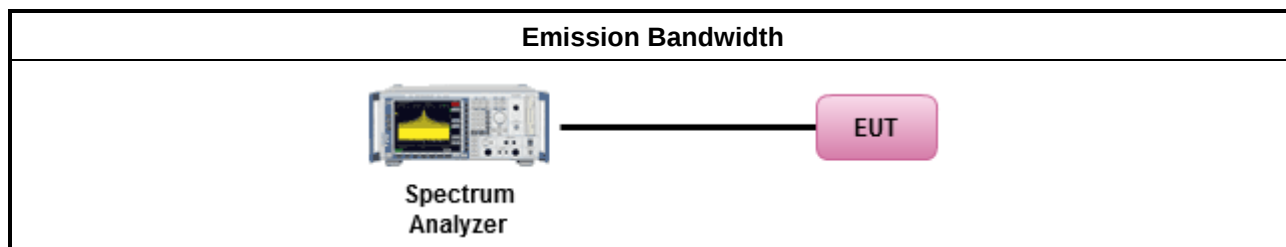
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

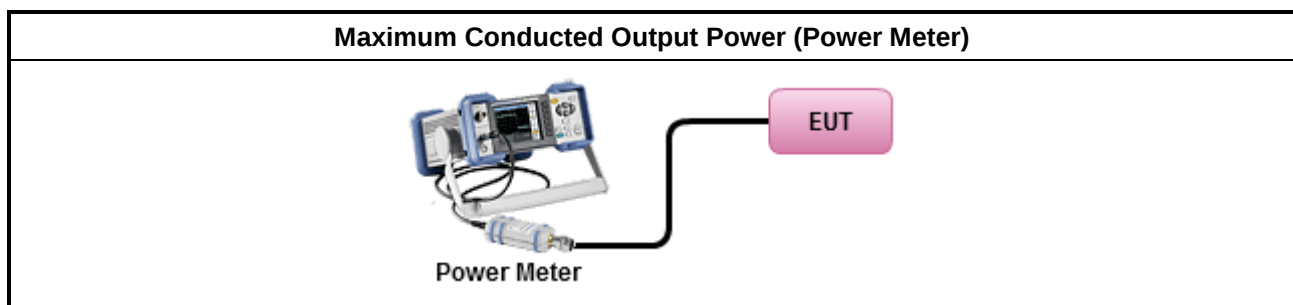
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

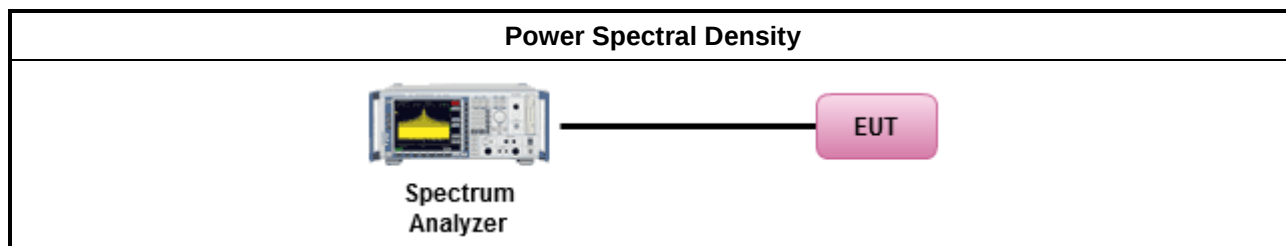
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

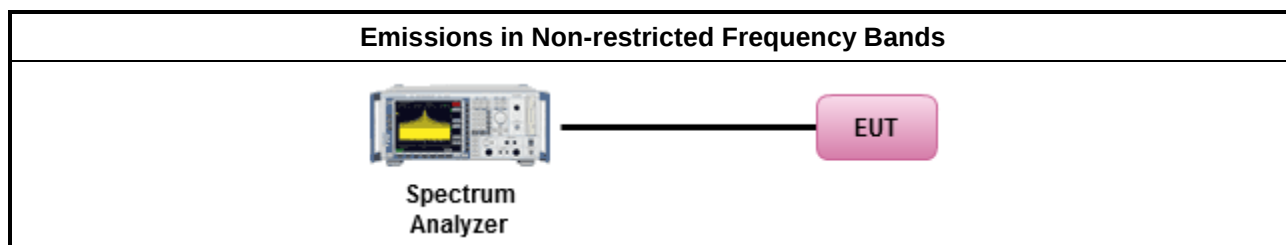
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

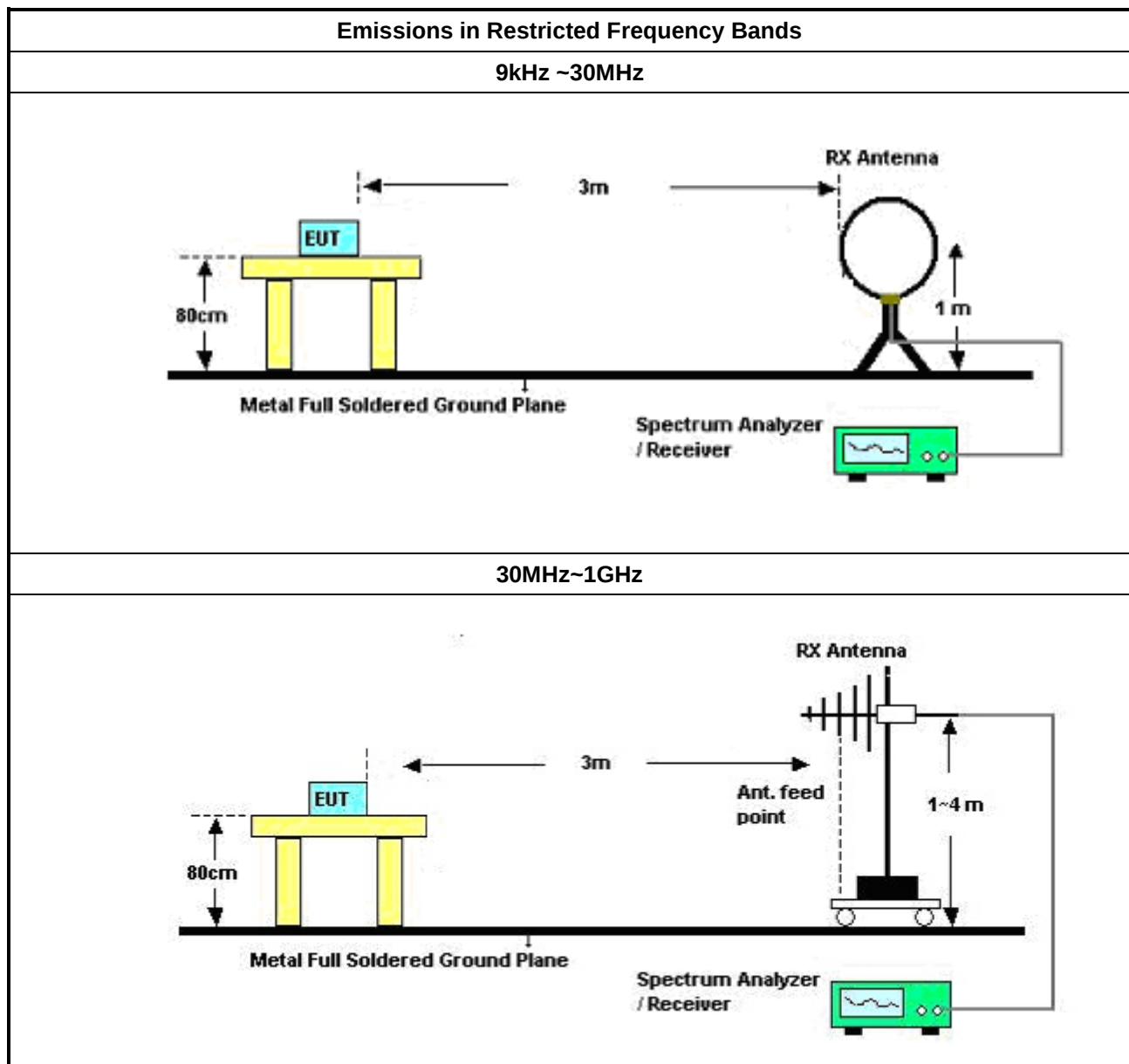
3.6.2 Measuring Instruments

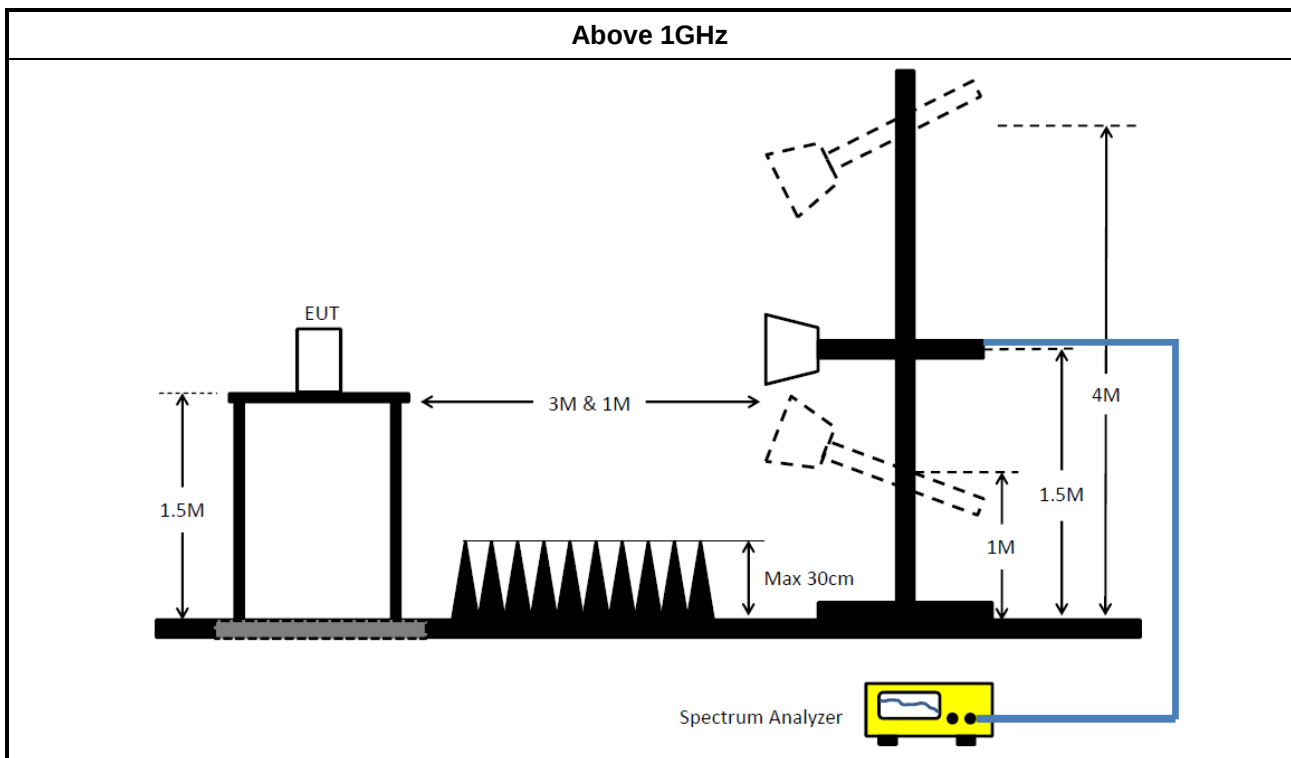
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

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

3.6.4 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	ENV216	101295	9kHz~30MHz	04/Nov/2019	05/Nov/2020
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz~200MHz	12/Sep/2019	11/Sep/2020
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz~30 MHz	24/Sep/2019	23/Sep/2020

NCR: Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101029	10kHz~40GHz	01/Oct/2019	30/Sep/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020
Power Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	17/Feb/2020	16/Feb/2021
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	17/Feb/2020	16/Feb/2021

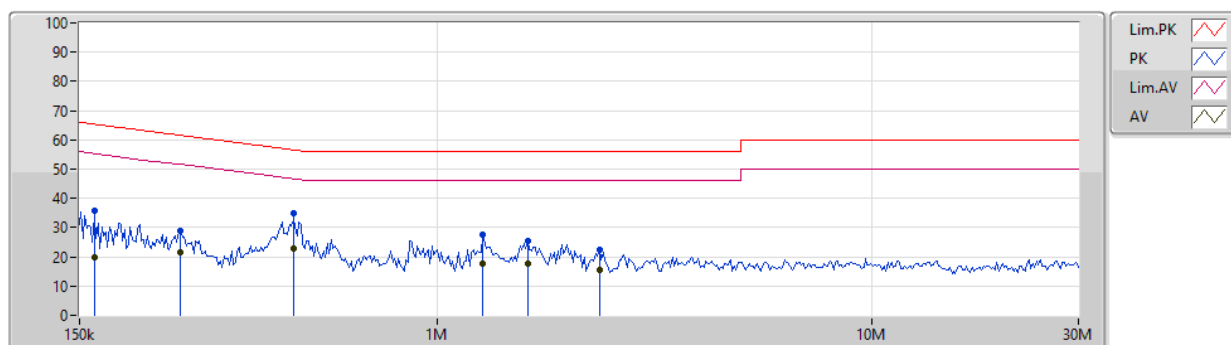
Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
N.S.A. Measurement	Riken	SAC-3M	03CH01-HY	30MHz~1GHz 3m	02/Jan/2020	01/Jan/2021
Site V.S.W.R	Riken	SAC-3M	03CH01-HY	1GHz~18GHz 3m	08/Jan/2020	07/Jan/2021
PreAmplifier	COM-POWER	PA-103	161050	1 MHz~1.0GHz	17/Jul/2019	16/Jul/2020
Microwave Preamplifier	Agilent	8449B	3008A02602	1GHz~26.5GHz	27/Mar/2019	26/Mar/2020
Spectrum Analyzer	R&S	FSV40	101407	10Hz~40GHz	10/Sep/2019	09/Sep/2020
RF Cable-R03m	Jye Bao	RG142	CB019	9kHz~1GHz	16/Dec/2019	15/Dec/2020
RF Cable-HIGH	SUHNER	SUCOFLEX 104	SN805196/4+M Y39495	1 GHz~18 GHz	13/Mar/2019	12/Mar/2020
Bilog Antenna & 5db Attenuator	SCHAFFNER/MTJ	CBL6112D / MTJ6102-05	2678 / 001	30MHz~2GHz	06/Jul/2019	05/Jul/2020
EMI Test Receiver	R&S	ESU-26	100422	20Hz~26.5GHz	23/Oct/2019	22/Oct/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k~30MHz	15/Mar/2019	14/Mar/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	18GHz~40GHz	22/May/2019	21/May/2020
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D-1130	1GHz~18GHz	04/Nov/2019	03/Nov/2020

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter Mode		

30/01/2020

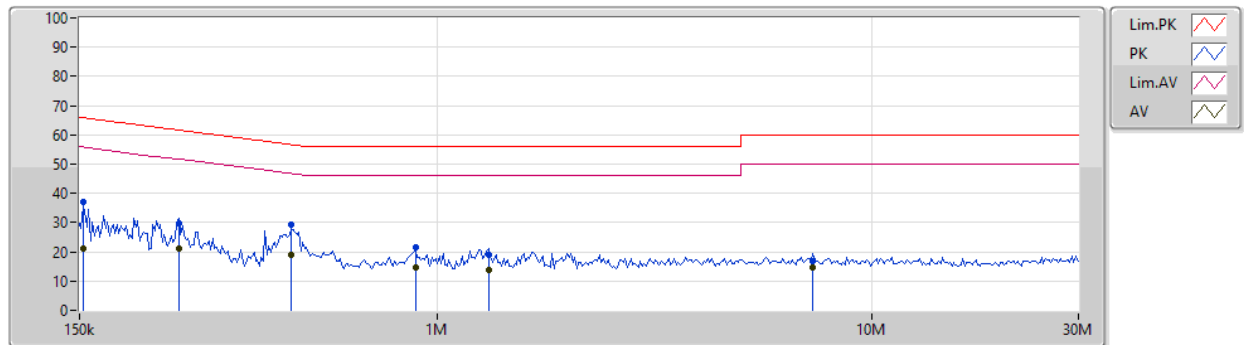


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	162.429k	35.74	65.33	-29.59	19.63	Neutral	-	16.11	9.65	0.11	9.87			
AV	162.429k	20.04	55.33	-35.29	19.63	Neutral	-	0.41	9.65	0.11	9.87			
QP	256.712k	28.82	61.54	-32.72	19.63	Neutral	-	9.19	9.64	0.12	9.87			
AV	256.712k	21.55	51.54	-29.99	19.63	Neutral	-	1.92	9.64	0.12	9.87			
QP	466.367k	34.94	56.57	-21.63	19.63	Neutral	"Worst"	15.31	9.63	0.13	9.87			
AV	466.367k	22.86	46.57	-23.71	19.63	Neutral	-	3.23	9.63	0.13	9.87			
QP	1.274M	27.70	56.00	-28.30	19.64	Neutral	-	8.06	9.64	0.12	9.88			
AV	1.274M	17.79	46.00	-28.21	19.64	Neutral	-	-1.85	9.64	0.12	9.88			
QP	1.618M	25.31	56.00	-30.69	19.65	Neutral	-	5.66	9.64	0.14	9.87			
AV	1.618M	17.61	46.00	-28.39	19.65	Neutral	-	-2.04	9.64	0.14	9.87			
QP	2.361M	22.25	56.00	-33.75	19.68	Neutral	-	2.57	9.65	0.16	9.87			
AV	2.361M	15.68	46.00	-30.32	19.68	Neutral	-	-4.00	9.65	0.16	9.87			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter Mode		

30/01/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.015k	37.14	65.83	-28.69	19.64	Line	-	17.50	9.66	0.11	9.87			
AV	153.015k	21.25	55.83	-34.58	19.64	Line	-	1.61	9.66	0.11	9.87			
QP	254.17k	29.95	61.62	-31.67	19.64	Line	-	10.31	9.65	0.12	9.87			
AV	254.17k	21.31	51.62	-30.31	19.64	Line	-	1.67	9.65	0.12	9.87			
QP	461.75k	29.49	56.67	-27.18	19.64	Line	"Worst"	9.85	9.64	0.13	9.87			
AV	461.75k	18.78	46.67	-27.89	19.64	Line	-	-0.86	9.64	0.13	9.87			
QP	890.466k	21.64	56.00	-34.36	19.62	Line	-	2.02	9.64	0.11	9.87			
AV	890.466k	14.71	46.00	-31.29	19.62	Line	-	-4.91	9.64	0.11	9.87			
QP	1.313M	18.79	56.00	-37.21	19.65	Line	-	-0.86	9.64	0.13	9.88			
AV	1.313M	13.82	46.00	-32.18	19.65	Line	-	-5.83	9.64	0.13	9.88			
QP	7.341M	16.91	60.00	-43.09	19.80	Line	-	-2.89	9.68	0.24	9.88			
AV	7.341M	14.67	50.00	-35.33	19.80	Line	-	-5.13	9.68	0.24	9.88			

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	10.075M	18.316M	18M3G1D	9.075M	14.893M
802.11g_Nss1,(6Mbps)_1TX	15.1M	20.465M	20M5D1D	15.075M	16.667M
802.11n HT20_Nss1,(MCS0)_1TX	15.1M	21.239M	21M2D1D	15.025M	17.666M
802.11n HT40_Nss1,(MCS0)_1TX	35.05M	36.882M	36M9D1D	32.55M	36.032M

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

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

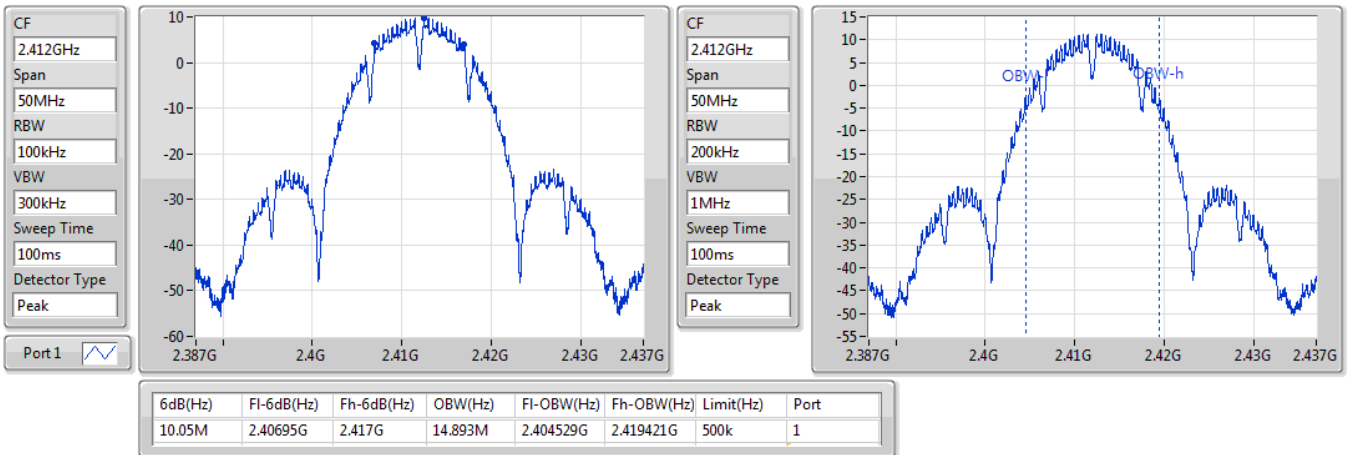
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	10.05M	14.893M
2437MHz_TnomVnom	Pass	500k	10.075M	18.316M
2462MHz_TnomVnom	Pass	500k	9.075M	15.167M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	15.1M	16.892M
2437MHz_TnomVnom	Pass	500k	15.075M	20.465M
2462MHz_TnomVnom	Pass	500k	15.1M	16.667M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	15.1M	17.666M
2437MHz_TnomVnom	Pass	500k	15.05M	21.239M
2462MHz_TnomVnom	Pass	500k	15.025M	17.666M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz_TnomVnom	Pass	500k	32.55M	36.032M
2437MHz_TnomVnom	Pass	500k	35M	36.882M
2452MHz_TnomVnom	Pass	500k	35.05M	36.082M

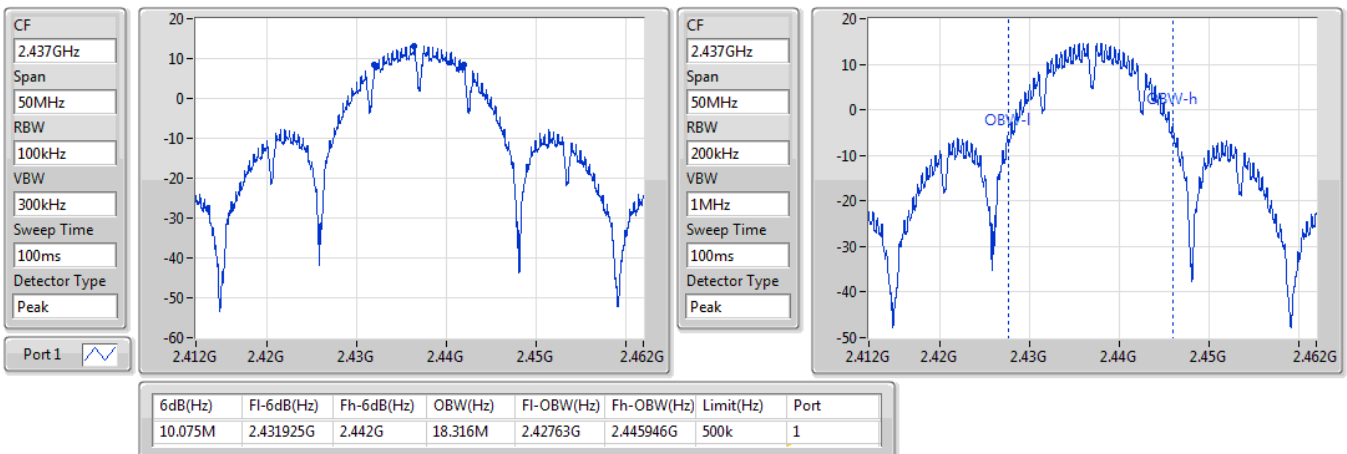
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

30/01/2020


802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

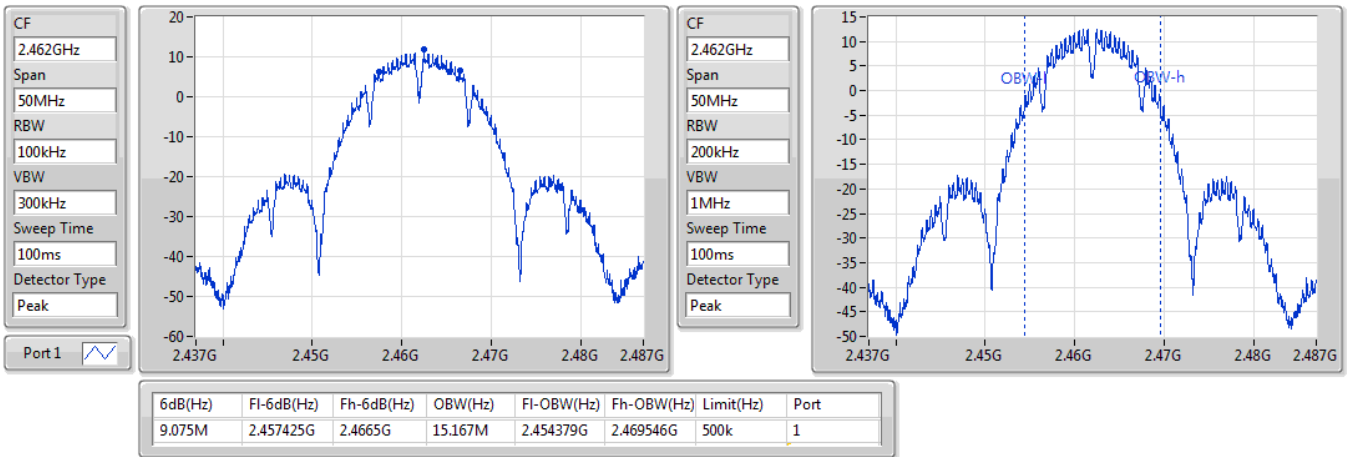
30/01/2020



802.11b_Nss1,(1Mbps)_1TX

EBW
2462MHz

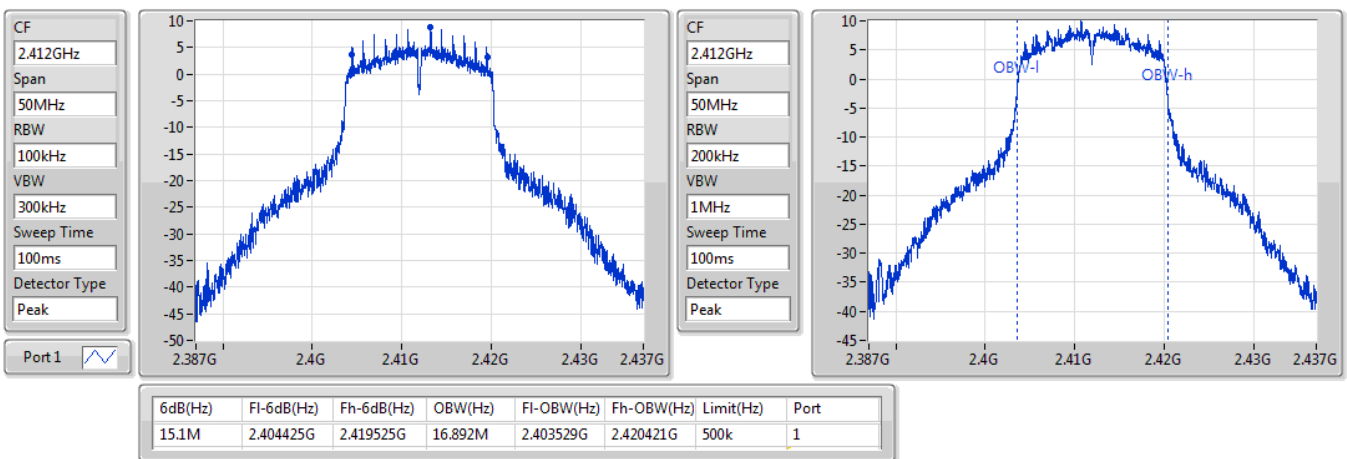
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802.11g_Nss1,(6Mbps)_1TX

EBW
2412MHz

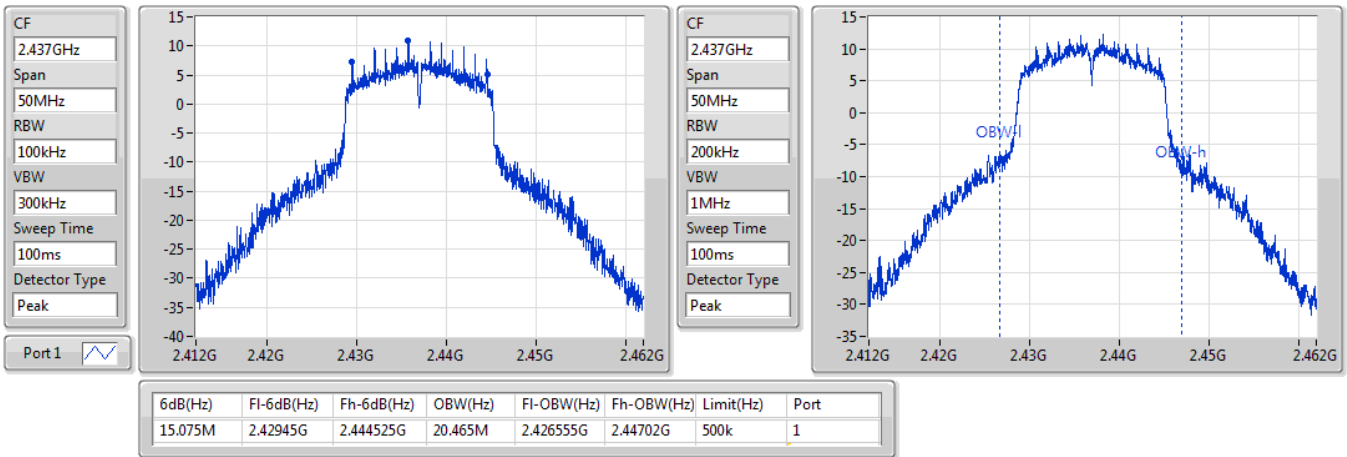
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802.11g_Nss1,(6Mbps)_1TX

EBW
2437MHz

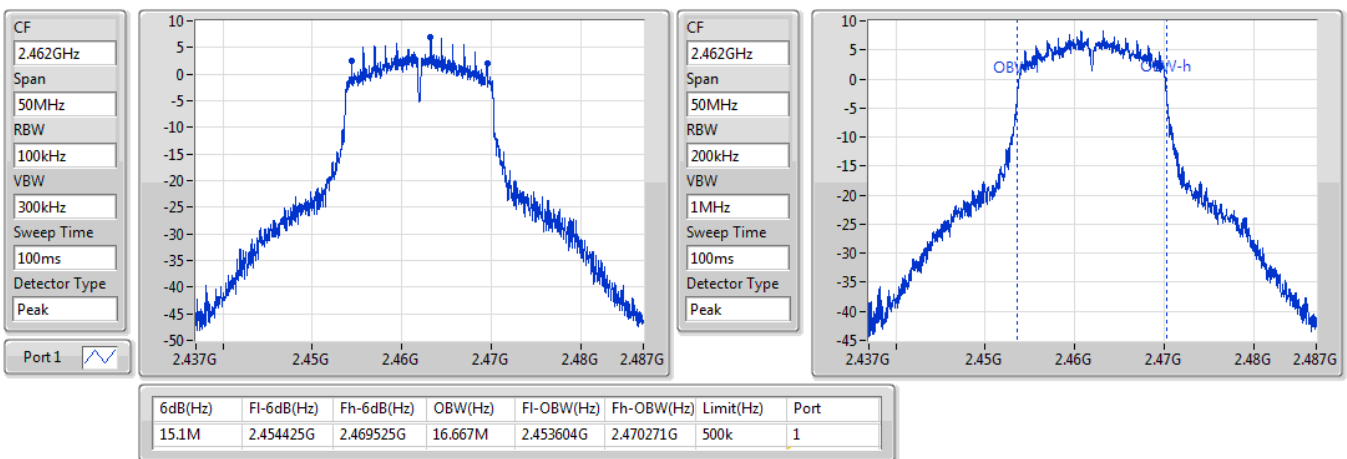
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802.11g_Nss1,(6Mbps)_1TX

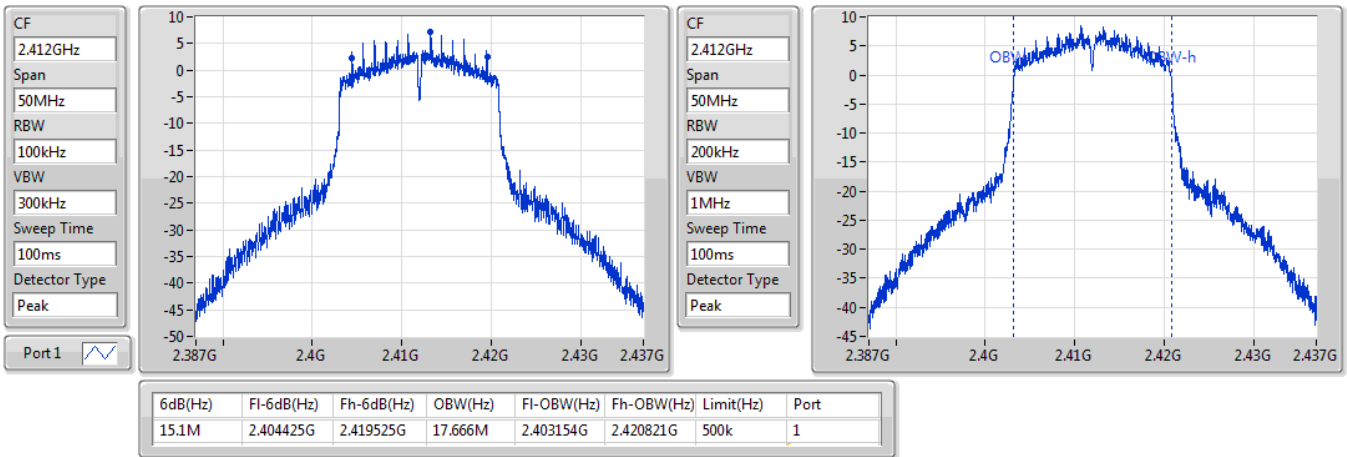
EBW
2462MHz

30/01/2020

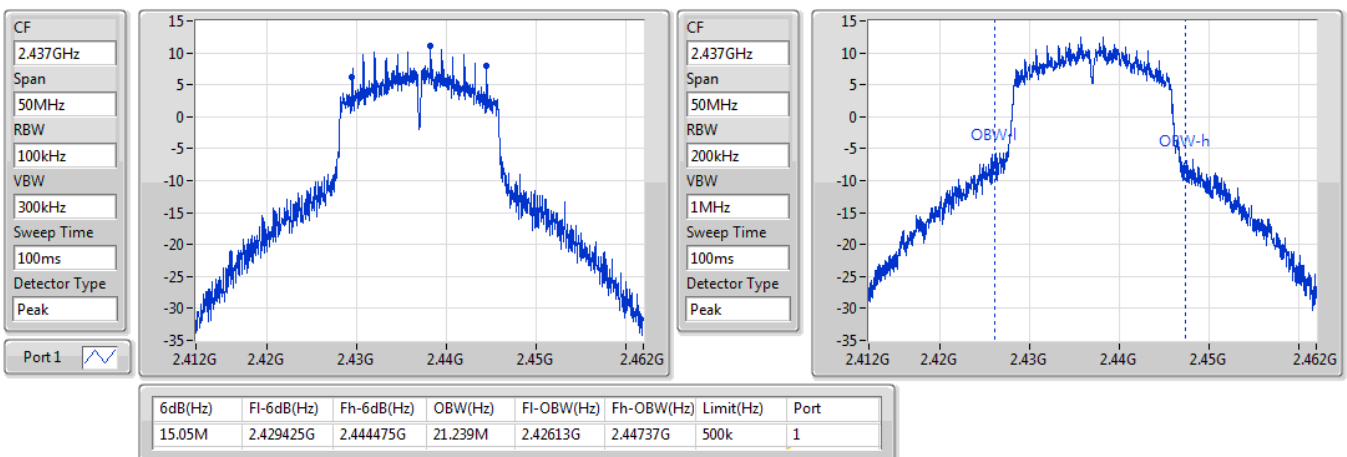


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2412MHz

30/01/2020


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2437MHz

30/01/2020

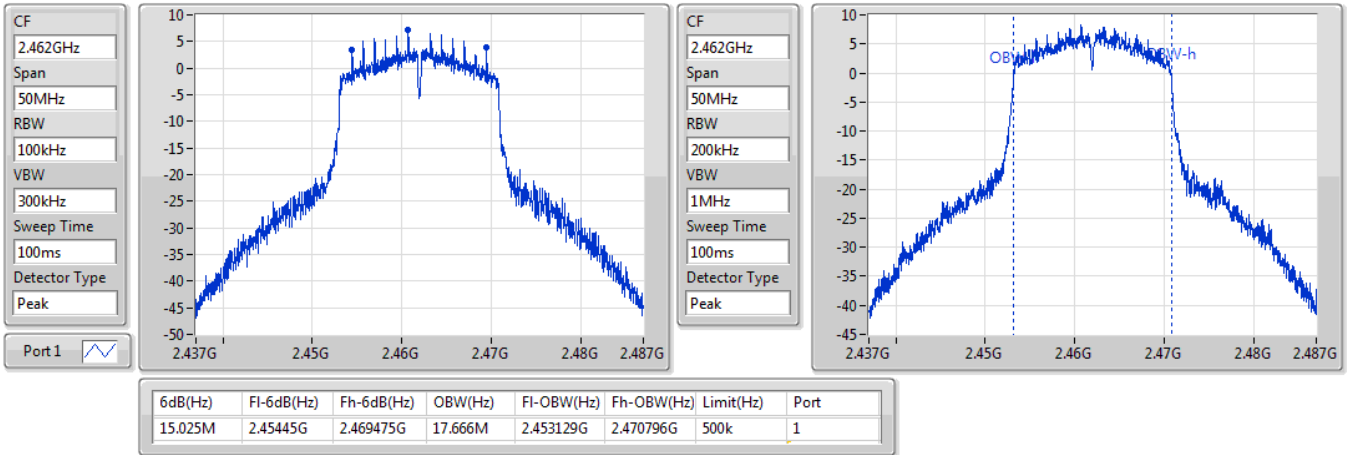


802.11n HT20_Nss1,(MCS0)_1TX

EBW

2462MHz

30/01/2020

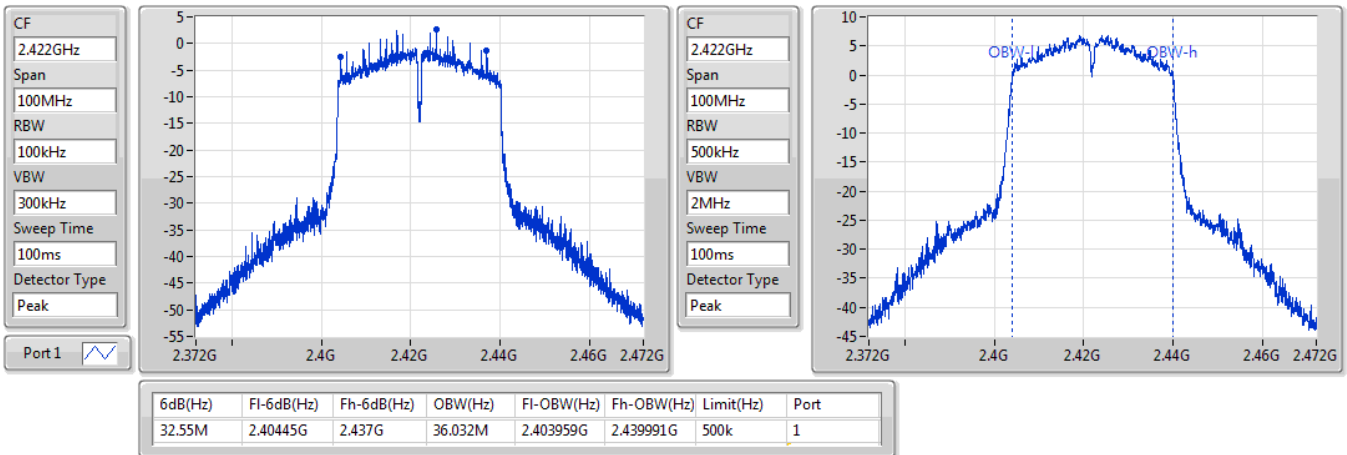


802.11n HT40_Nss1,(MCS0)_1TX

EBW

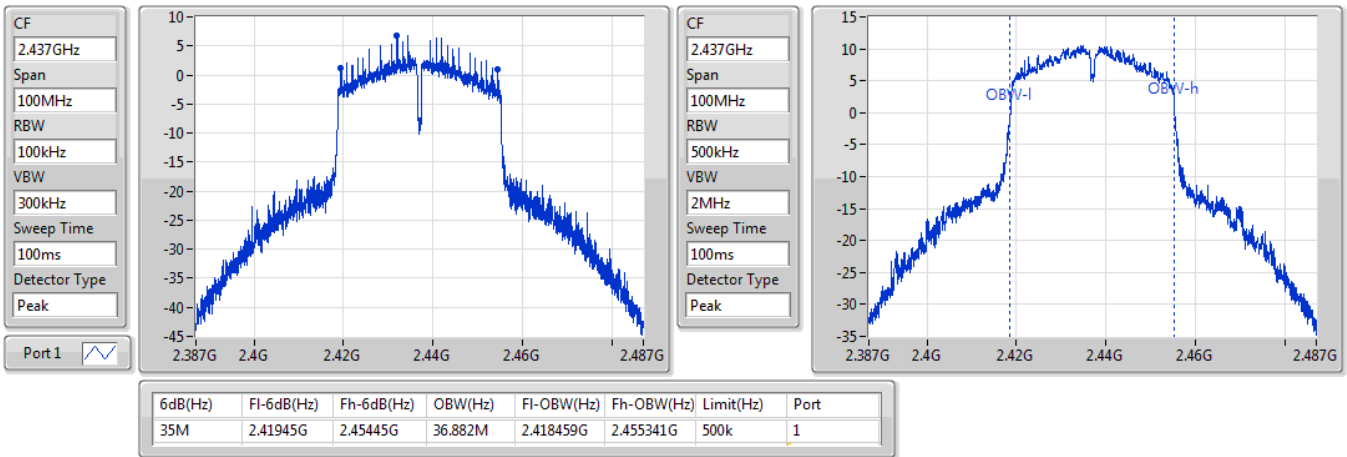
2422MHz

30/01/2020

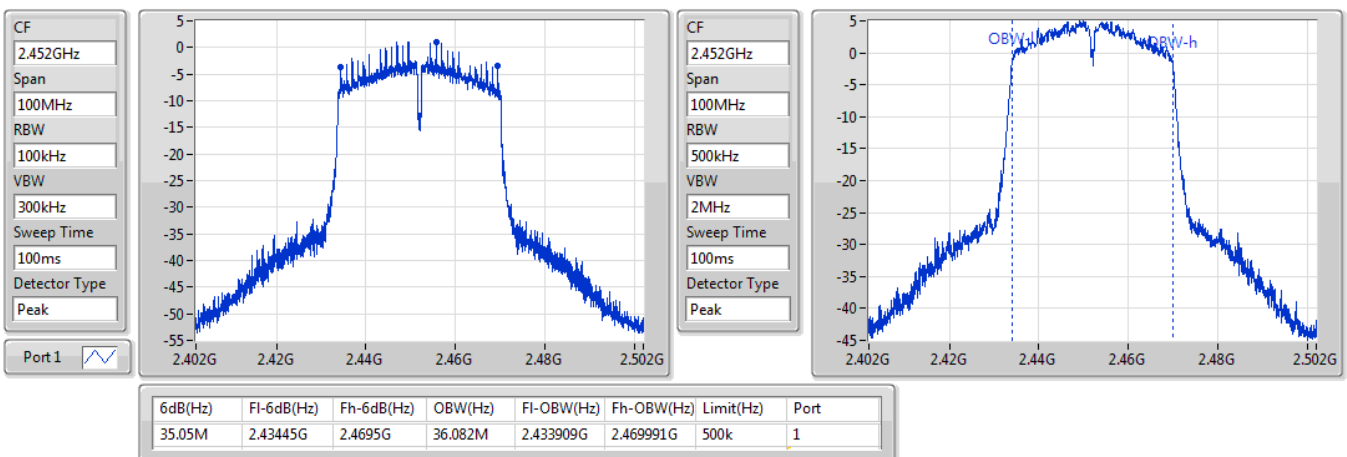


802.11n HT40_Nss1,(MCS0)_1TX
EBW
2437MHz

30/01/2020


802.11n HT40_Nss1,(MCS0)_1TX
EBW
2452MHz

30/01/2020





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	23.68	0.23335
802.11g_Nss1,(6Mbps)_1TX	21.12	0.12942
802.11n HT20_Nss1,(MCS0)_1TX	21.04	0.12706
802.11n HT40_Nss1,(MCS0)_1TX	19.31	0.08531

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	3.50	19.75	19.75	30.00
2417MHz_TnomVnom	Pass	3.50	20.61	20.61	30.00
2437MHz_TnomVnom	Pass	3.50	23.68	23.68	30.00
2457MHz_TnomVnom	Pass	3.50	21.52	21.52	30.00
2462MHz_TnomVnom	Pass	3.50	21.04	21.04	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	3.50	18.69	18.69	30.00
2417MHz_TnomVnom	Pass	3.50	21.12	21.12	30.00
2437MHz_TnomVnom	Pass	3.50	20.93	20.93	30.00
2457MHz_TnomVnom	Pass	3.50	19.88	19.88	30.00
2462MHz_TnomVnom	Pass	3.50	17.24	17.24	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	3.50	16.96	16.96	30.00
2417MHz_TnomVnom	Pass	3.50	21.04	21.04	30.00
2437MHz_TnomVnom	Pass	3.50	20.88	20.88	30.00
2457MHz_TnomVnom	Pass	3.50	19.22	19.22	30.00
2462MHz_TnomVnom	Pass	3.50	17.12	17.12	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz_TnomVnom	Pass	3.50	15.47	15.47	30.00
2427MHz_TnomVnom	Pass	3.50	16.82	16.82	30.00
2437MHz_TnomVnom	Pass	3.50	19.31	19.31	30.00
2447MHz_TnomVnom	Pass	3.50	16.02	16.02	30.00
2452MHz_TnomVnom	Pass	3.50	14.04	14.04	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	-3.36
802.11g_Nss1,(6Mbps)_1TX	-6.41
802.11n HT20_Nss1,(MCS0)_1TX	-5.63
802.11n HT40_Nss1,(MCS0)_1TX	-10.04

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	3.50	-7.19	-7.19	8.00
2437MHz_TnomVnom	Pass	3.50	-3.36	-3.36	8.00
2462MHz_TnomVnom	Pass	3.50	-5.40	-5.40	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	3.50	-8.68	-8.68	8.00
2437MHz_TnomVnom	Pass	3.50	-6.41	-6.41	8.00
2462MHz_TnomVnom	Pass	3.50	-10.14	-10.14	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	3.50	-8.82	-8.82	8.00
2437MHz_TnomVnom	Pass	3.50	-5.63	-5.63	8.00
2462MHz_TnomVnom	Pass	3.50	-9.82	-9.82	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz_TnomVnom	Pass	3.50	-13.58	-13.58	8.00
2437MHz_TnomVnom	Pass	3.50	-10.04	-10.04	8.00
2452MHz_TnomVnom	Pass	3.50	-15.01	-15.01	8.00

DG = Directional Gain

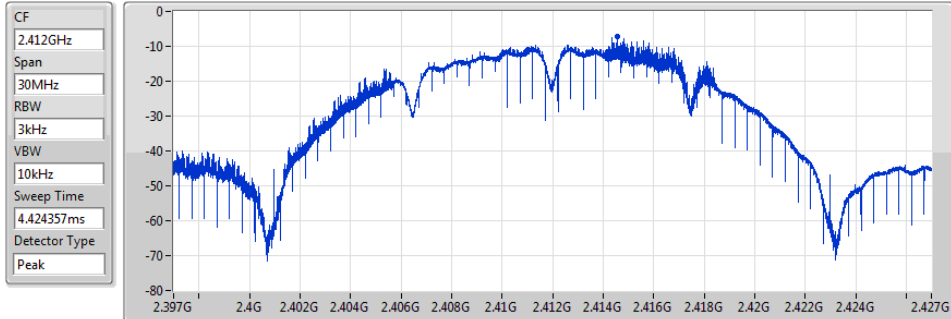
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

30/01/2020



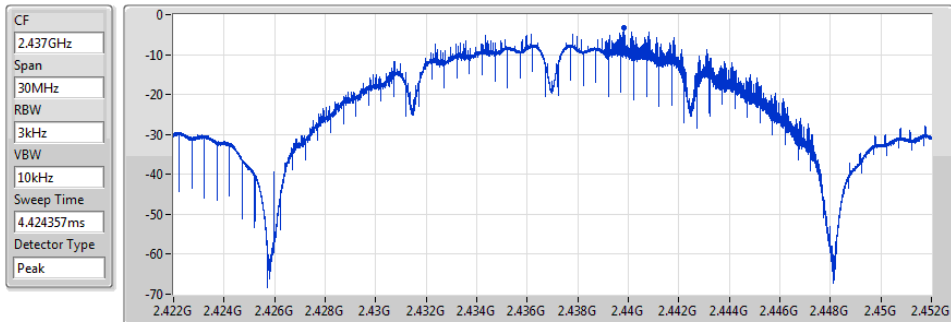
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-7.19	-7.19	-7.19

802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

30/01/2020



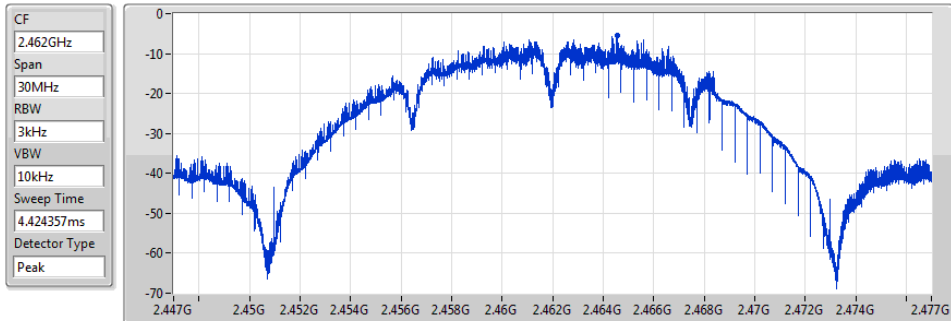
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-3.36	-3.36	-3.36

802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

30/01/2020



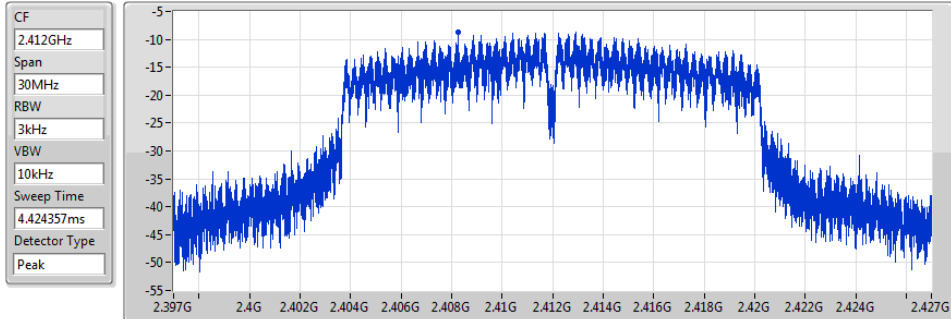
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-5.40	-5.40	-5.40

802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

30/01/2020



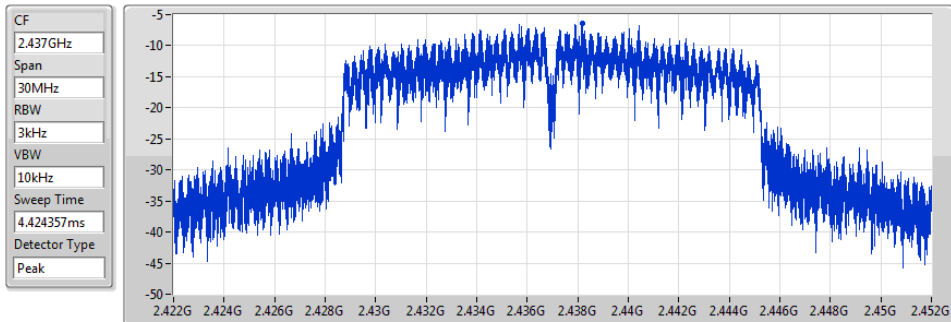
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.68	-8.68	-8.68

802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

30/01/2020



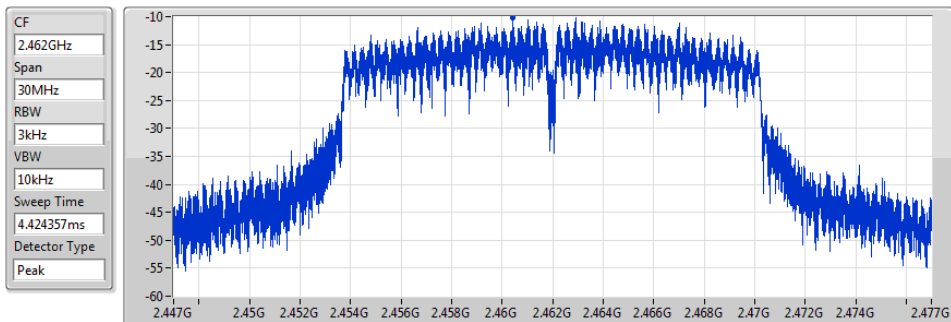
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.41	-6.41	-6.41

802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

30/01/2020



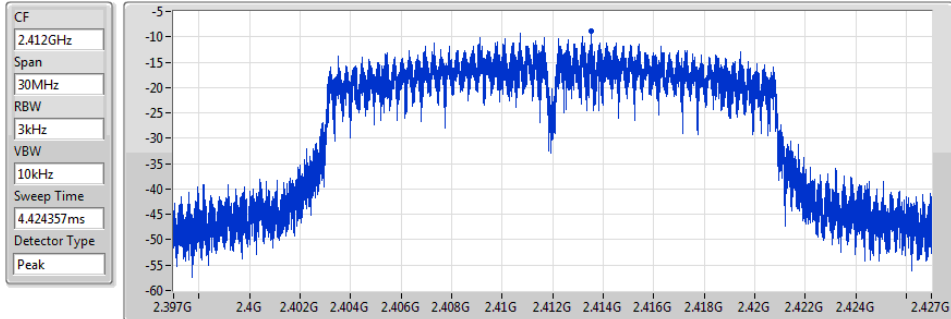
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.14	-10.14	-10.14

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2412MHz

30/01/2020



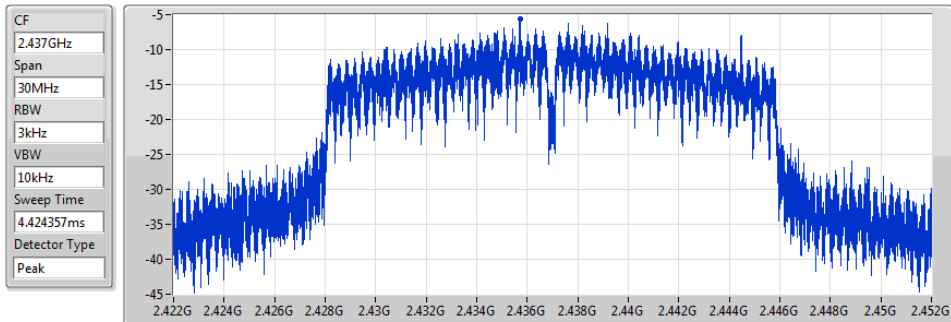
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-8.82	-8.82	-8.82

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

30/01/2020



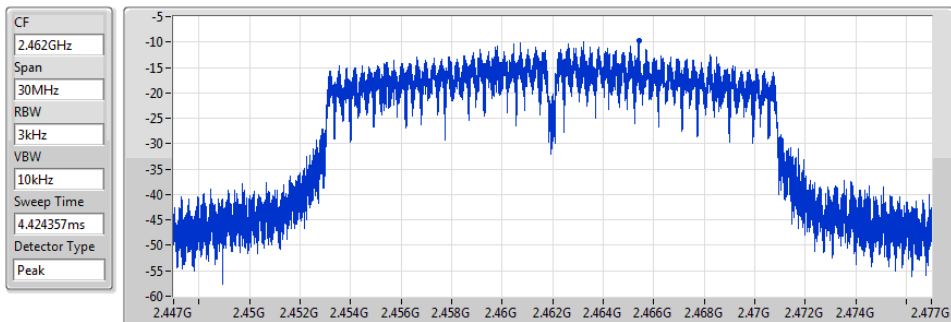
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-5.63	-5.63	-5.63

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2462MHz

30/01/2020



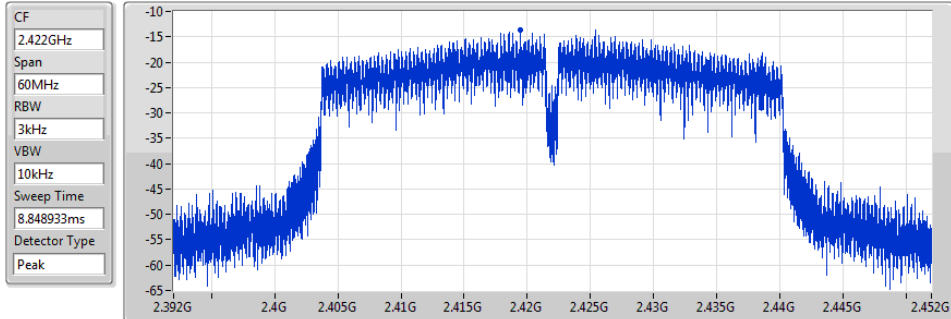
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-9.82	-9.82	-9.82

802.11n HT40_Nss1,(MCS0)_1TX

PSD

2422MHz

30/01/2020



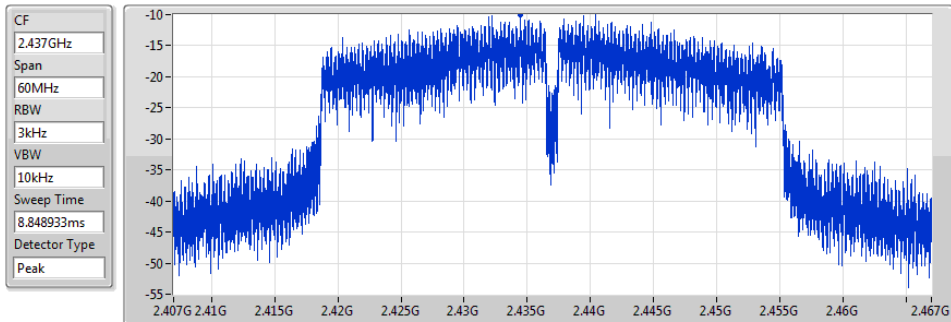
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.58	-13.58	-13.58

802.11n HT40_Nss1,(MCS0)_1TX

PSD

2437MHz

30/01/2020



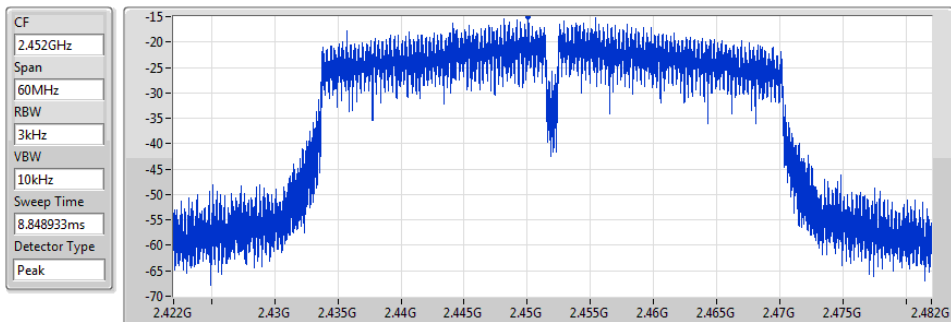
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.04	-10.04	-10.04

802.11n HT40_Nss1,(MCS0)_1TX

PSD

2452MHz

30/01/2020



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-15.01	-15.01	-15.01



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.43545G	12.95	-17.05	2.30991G	-53.64	2.39696G	-23.81	2.4G	-30.79	2.488G	-50.81	15.14686G	-43.30	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43574G	10.89	-19.11	2.30728G	-53.64	2.39986G	-19.86	2.4G	-20.91	2.49166G	-49.13	24.93819G	-43.25	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.4357G	11.02	-18.98	2.16399G	-53.44	2.39978G	-22.25	2.4G	-24.17	2.48944G	-47.45	16.99275G	-43.62	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.43194G	6.83	-23.17	479.99M	-51.16	2.39948G	-23.43	2.4G	-29.53	2.48354G	-36.97	16.59473G	-43.72	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43545G	12.95	-17.05	2.30991G	-53.64	2.39696G	-23.81	2.4G	-30.79	2.488G	-50.81	15.14686G	-43.30	1
2437MHz_TnomVnom	Pass	2.43545G	12.95	-17.05	32.91M	-49.64	2.39998G	-44.72	2.4G	-45.20	2.48492G	-43.68	16.61908G	-43.66	1
2462MHz_TnomVnom	Pass	2.43545G	12.95	-17.05	2.08885G	-53.68	2.39886G	-51.40	2.4835G	-45.74	2.48796G	-38.82	16.38307G	-42.49	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43574G	10.89	-19.11	2.30728G	-53.64	2.39986G	-19.86	2.4G	-20.91	2.49166G	-49.13	24.93819G	-43.25	1
2437MHz_TnomVnom	Pass	2.43574G	10.89	-19.11	2.16166G	-53.20	2.39978G	-46.33	2.4G	-49.24	2.4882G	-47.23	16.29036G	-43.39	1
2462MHz_TnomVnom	Pass	2.43574G	10.89	-19.11	2.11069G	-53.17	2.39356G	-48.51	2.4835G	-39.77	2.48356G	-37.40	16.39993G	-43.96	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.4357G	11.02	-18.98	2.16399G	-53.44	2.39978G	-22.25	2.4G	-24.17	2.48944G	-47.45	16.99275G	-43.62	1
2437MHz_TnomVnom	Pass	2.4357G	11.02	-18.98	2.11127G	-53.49	2.39872G	-45.66	2.4G	-46.18	2.48822G	-46.83	24.87076G	-43.91	1
2462MHz_TnomVnom	Pass	2.4357G	11.02	-18.98	2.30845G	-53.15	2.39822G	-47.81	2.4835G	-35.30	2.4835G	-35.74	15.16091G	-42.88	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.43194G	6.83	-23.17	681.51M	-54.01	2.39448G	-29.35	2.4G	-30.25	2.49198G	-49.74	17.46975G	-43.81	1
2437MHz_TnomVnom	Pass	2.43194G	6.83	-23.17	479.99M	-51.16	2.39948G	-23.43	2.4G	-29.53	2.48354G	-36.97	16.59473G	-43.72	1
2452MHz_TnomVnom	Pass	2.43194G	6.83	-23.17	2.08757G	-53.25	2.39952G	-49.45	2.4835G	-39.13	2.48442G	-35.99	16.25818G	-43.96	1

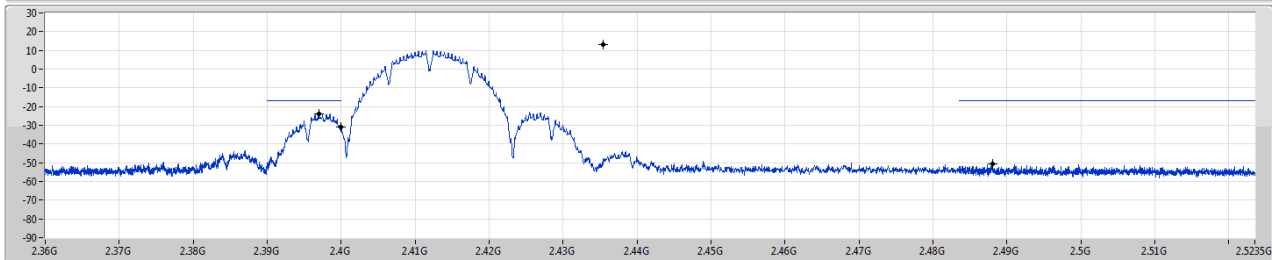
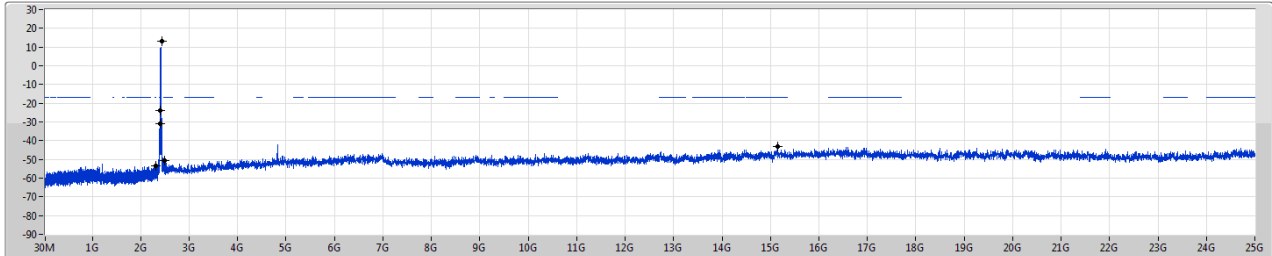
802.11b_Nss1,(1Mbps)_1TX

2412MHz

CSE NdB

30/01/2020

Port1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43545G	12.95	-17.05	2.30991G	-53.64	2.39696G	-23.81	2.4G	-30.79	2.488G	-50.81	15.14686G	-43.30	1

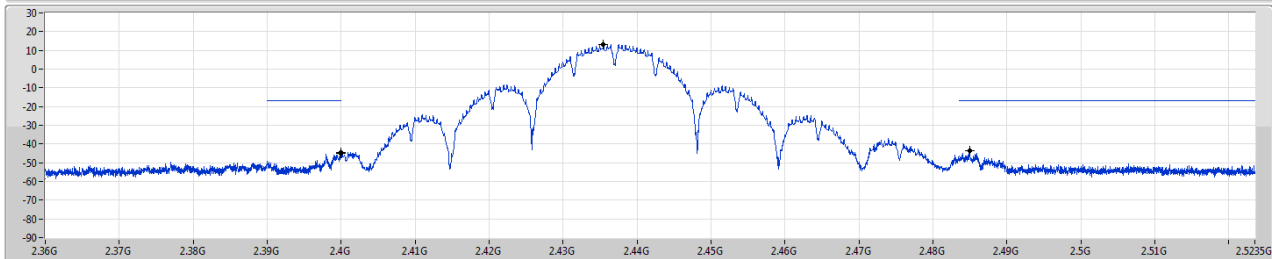
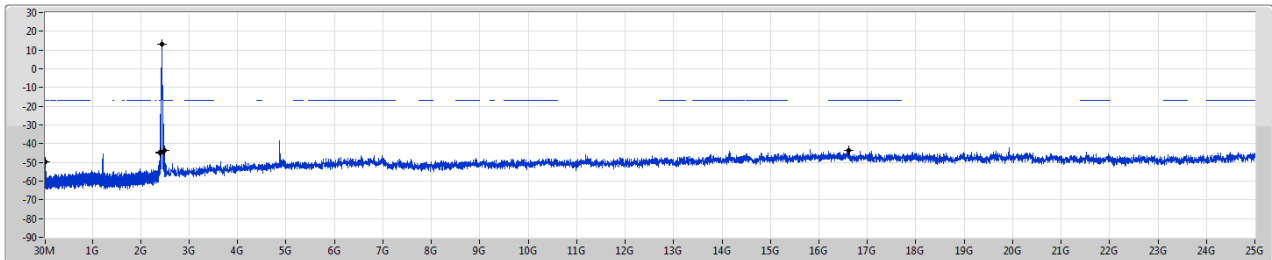
802.11b_Nss1,(1Mbps)_1TX

2437MHz

CSE NdB

30/01/2020

Port1



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

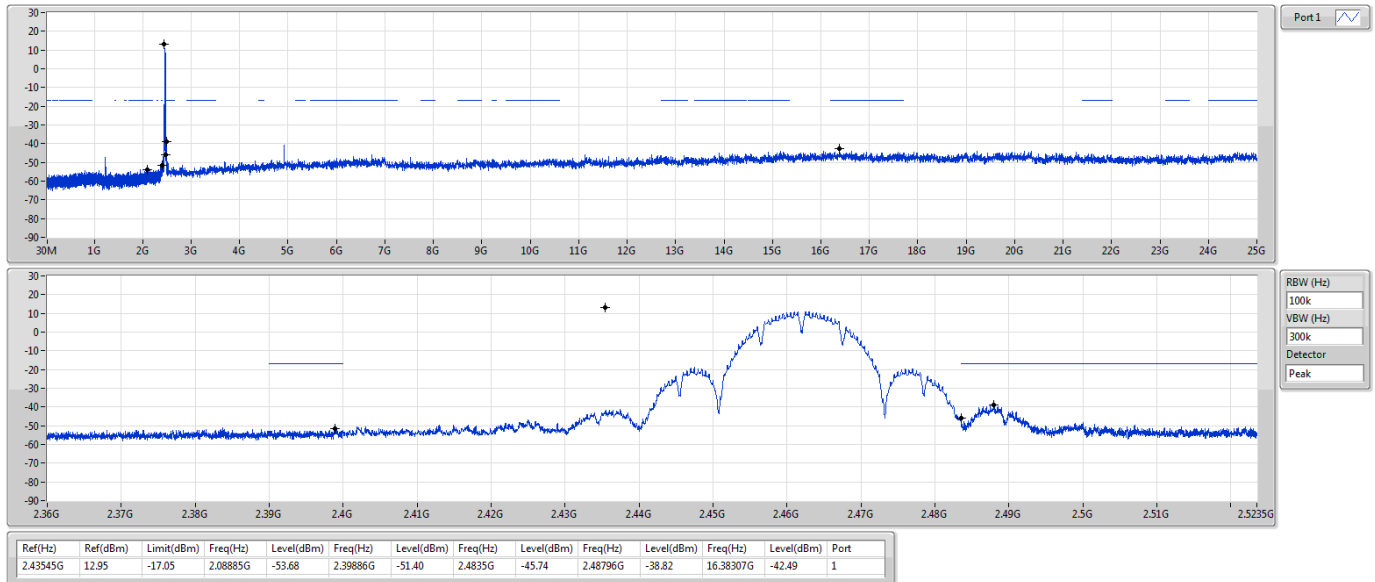
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43545G	12.95	-17.05	32.91M	-49.64	2.39998G	-44.72	2.4G	-45.20	2.48492G	-43.68	16.61908G	-43.66	1

802.11b_Nss1,(1Mbps)_1TX

2462MHz

CSE NdB

30/01/2020

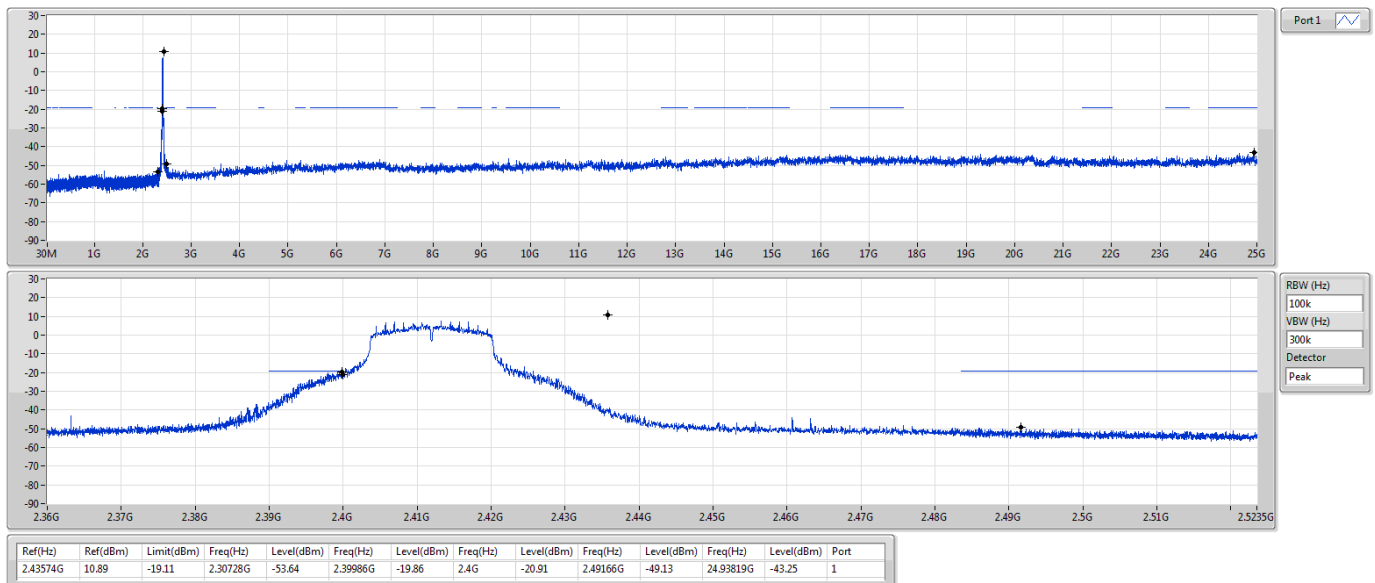


802.11g_Nss1,(6Mbps)_1TX

2412MHz

CSE NdB

30/01/2020



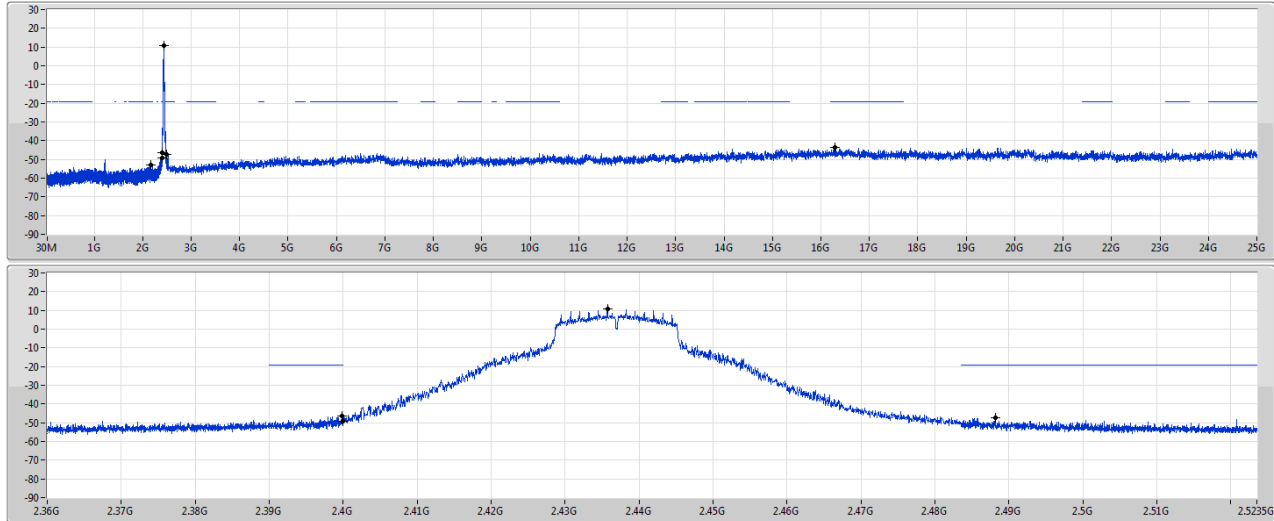
802.11g_Nss1,(6Mbps)_1TX

2437MHz

CSE NdB

30/01/2020

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	10.89	-19.11	2.16166G	-53.20	2.39978G	-46.33	2.4G	-49.24	2.4882G	-47.23	16.29036G	-43.39	1

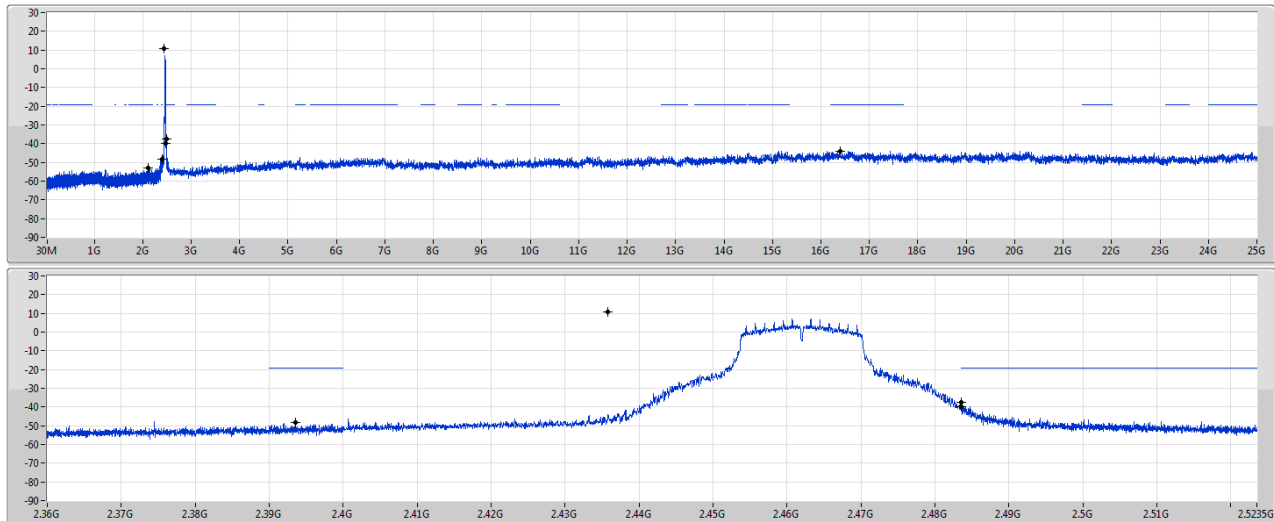
802.11g_Nss1,(6Mbps)_1TX

2462MHz

CSE NdB

30/01/2020

Port 1

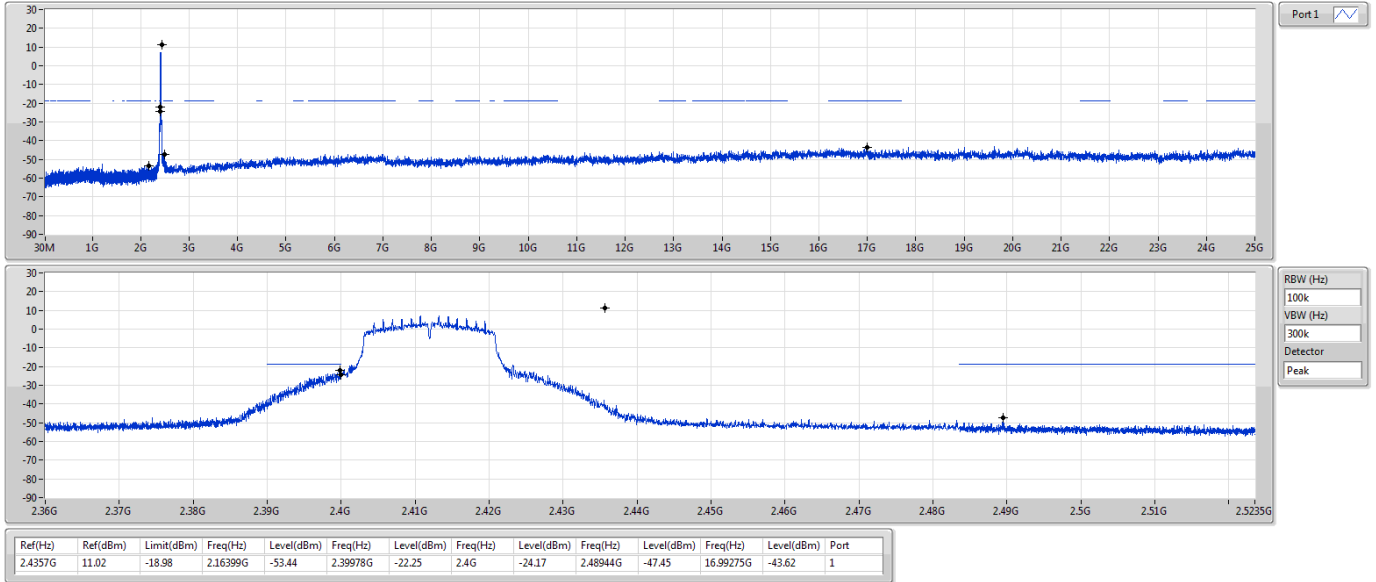


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	10.89	-19.11	2.11069G	-53.17	2.39356G	-48.51	2.4835G	-39.77	2.48356G	-37.40	16.39993G	-43.96	1

802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

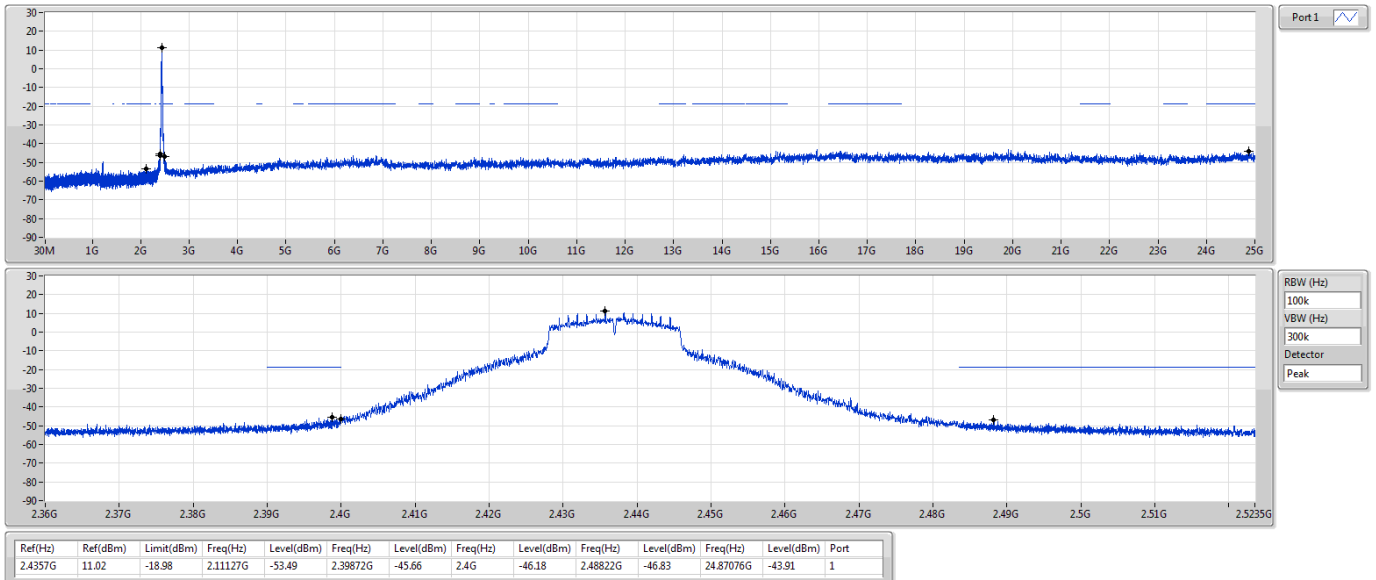
2412MHz



802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

2437MHz



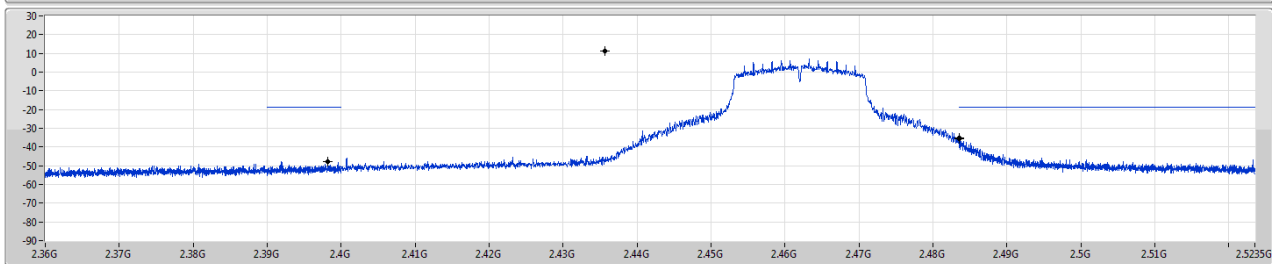
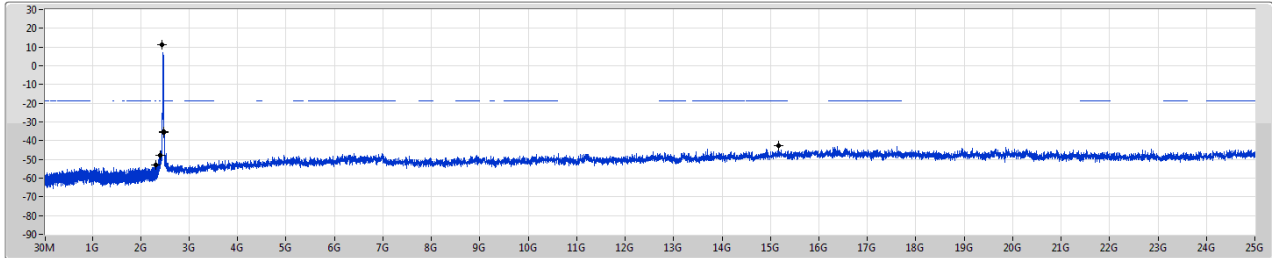
802.11n HT20_Nss1,(MCS0)_1TX

2462MHz

CSE NdB

30/01/2020

Port 1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4357G	11.02	-18.98	2.30845G	-53.15	2.39822G	-47.81	2.4835G	-35.30	2.4835G	-35.74	15.16091G	-42.88	1

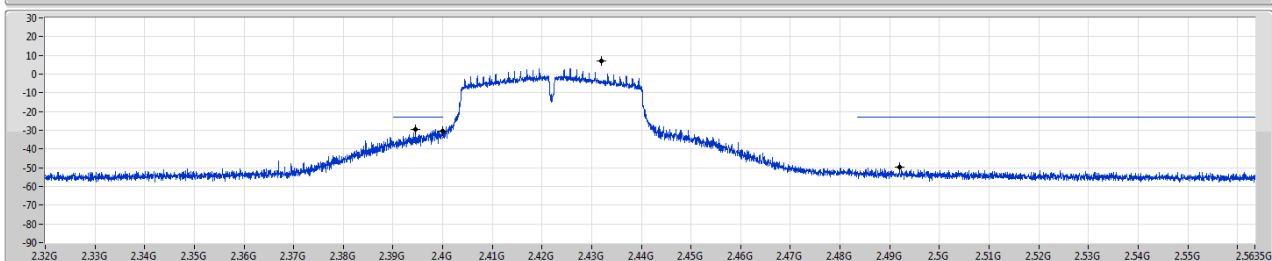
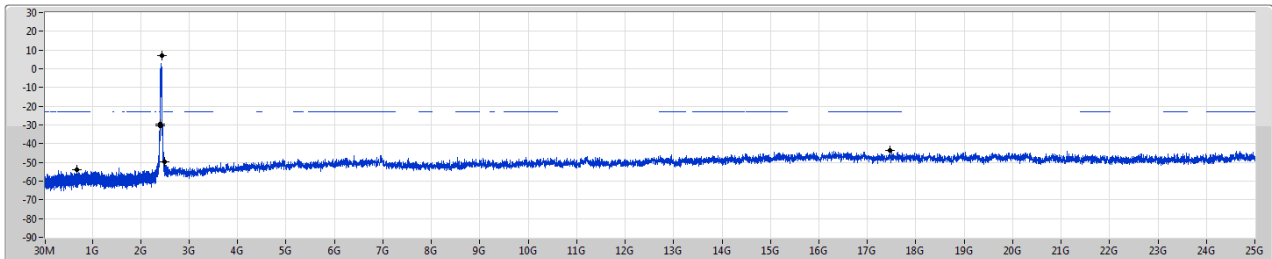
802.11n HT40_Nss1,(MCS0)_1TX

2422MHz

CSE NdB

30/01/2020

Port 1



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

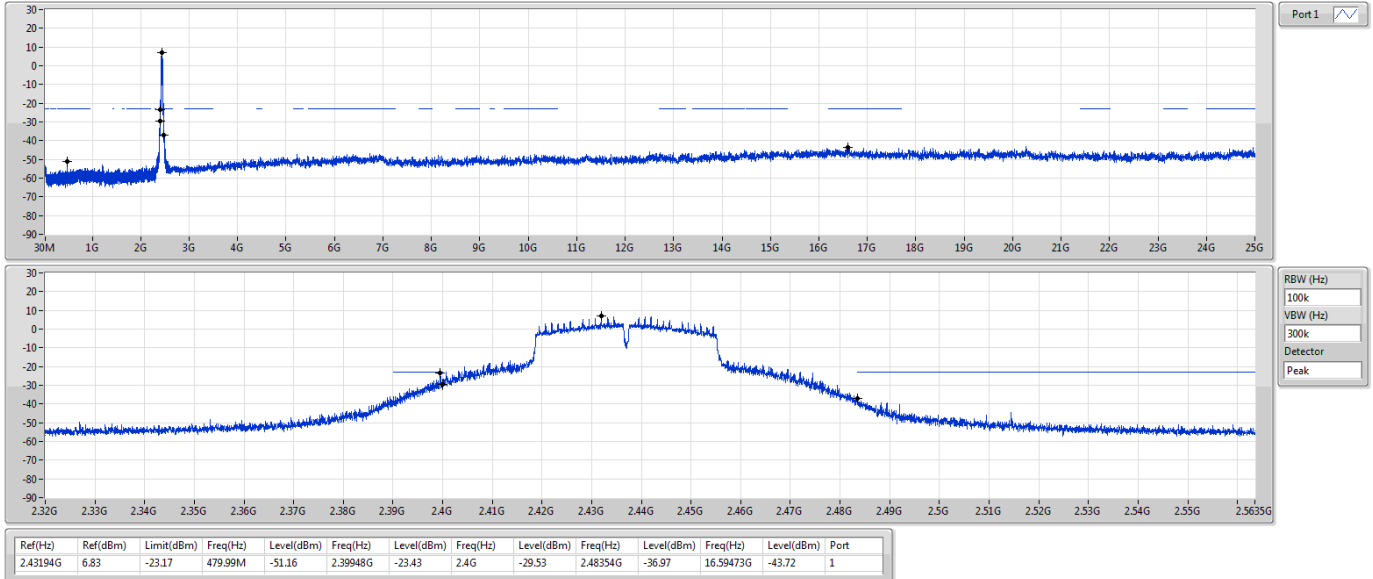
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43194G	6.83	-23.17	681.51M	-54.01	2.39448G	-29.35	2.4G	-30.25	2.49198G	-49.74	17.46975G	-43.81	1

802.11n HT40_Nss1,(MCS0)_1TX

CSE NdB

2437MHz

30/01/2020

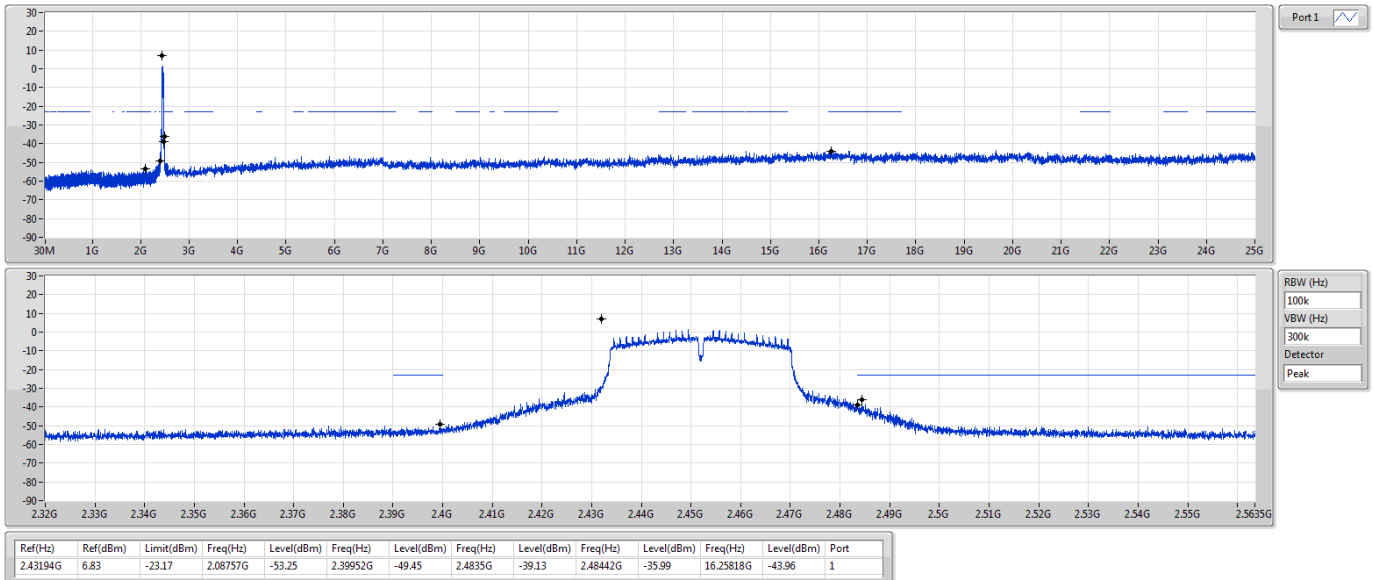


802.11n HT40_Nss1,(MCS0)_1TX

CSE NdB

2452MHz

30/01/2020





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	PK	301.32M	39.73	46.00	-6.27	3	Horizontal	360	1.00	-

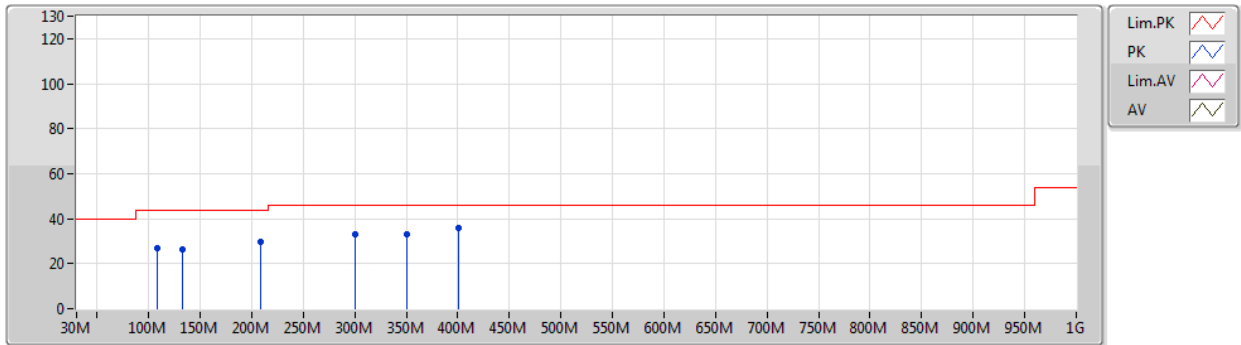
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz_Adapter	Pass	PK	108.72M	27.03	43.50	-16.47	3	Vertical	0	1.00	-
2437MHz_Adapter	Pass	PK	132.62M	26.57	43.50	-16.93	3	Vertical	0	1.00	-
2437MHz_Adapter	Pass	PK	208.54M	29.47	43.50	-14.03	3	Vertical	0	1.00	-
2437MHz_Adapter	Pass	PK	299.91M	33.31	46.00	-12.69	3	Vertical	0	1.00	-
2437MHz_Adapter	Pass	PK	350.52M	33.22	46.00	-12.78	3	Vertical	0	1.00	-
2437MHz_Adapter	Pass	PK	401.13M	35.61	46.00	-10.39	3	Vertical	0	1.00	-
2437MHz_Adapter	Pass	PK	108.72M	27.72	43.50	-15.78	3	Horizontal	360	1.00	-
2437MHz_Adapter	Pass	PK	166.36M	29.13	43.50	-14.37	3	Horizontal	360	1.00	-
2437MHz_Adapter	Pass	PK	231.03M	35.29	46.00	-10.71	3	Horizontal	360	1.00	-
2437MHz_Adapter	Pass	PK	301.32M	39.73	46.00	-6.27	3	Horizontal	360	1.00	-
2437MHz_Adapter	Pass	PK	396.91M	37.96	46.00	-8.04	3	Horizontal	360	1.00	-
2437MHz_Adapter	Pass	PK	486.88M	32.13	46.00	-13.87	3	Horizontal	360	1.00	-

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2437MHz_Adapter

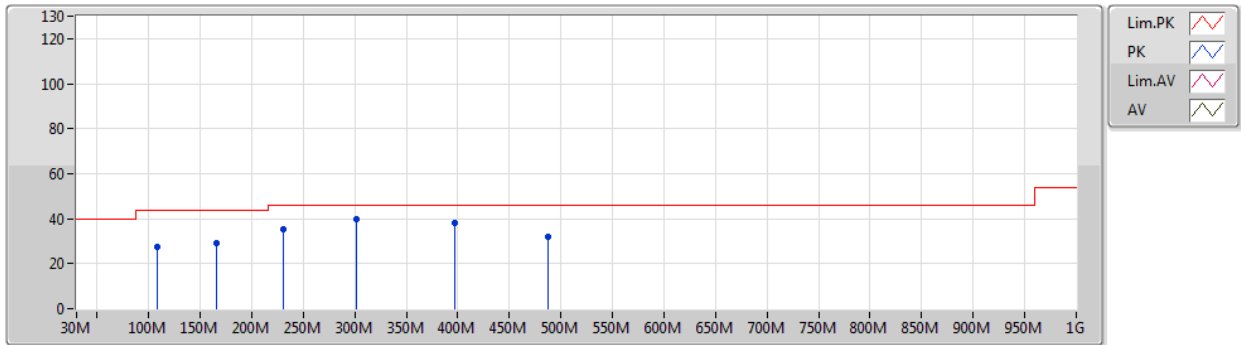


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	108.72M	27.03	43.50	-16.47	-13.12	3	Vertical	0	1.00	-	40.15	16.98	1.70	31.80
PK	132.62M	26.57	43.50	-16.93	-13.19	3	Vertical	0	1.00	-	39.76	16.83	1.76	31.78
PK	208.54M	29.47	43.50	-14.03	-15.21	3	Vertical	0	1.00	-	44.68	14.26	2.22	31.69
PK	299.91M	33.31	46.00	-12.69	-10.65	3	Vertical	0	1.00	-	43.96	18.33	2.60	31.58
PK	350.52M	33.22	46.00	-12.78	-9.43	3	Vertical	0	1.00	-	42.65	19.55	2.60	31.58
PK	401.13M	35.61	46.00	-10.39	-7.65	3	Vertical	0	1.00	-	43.26	21.04	2.81	31.50

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2437MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	108.72M	27.72	43.50	-15.78	-13.12	3	Horizontal	360	1.00	-	40.84	16.98	1.70	31.80
PK	166.36M	29.13	43.50	-14.37	-14.74	3	Horizontal	360	1.00	-	43.87	14.91	2.07	31.72
PK	231.03M	35.29	46.00	-10.71	-13.99	3	Horizontal	360	1.00	-	49.28	15.43	2.26	31.68
PK	301.32M	39.73	46.00	-6.27	-10.62	3	Horizontal	360	1.00	-	50.35	18.36	2.60	31.58
PK	396.91M	37.96	46.00	-8.04	-7.89	3	Horizontal	360	1.00	-	45.85	20.83	2.79	31.51
PK	486.88M	32.13	46.00	-13.87	-5.59	3	Horizontal	360	1.00	-	37.72	22.62	3.20	31.41

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	4.83394G	53.54	54.00	-0.46	3	Horizontal	355	2.38	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.39G	53.51	54.00	-0.49	3	Horizontal	314	2.22	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.4836G	53.88	54.00	-0.12	3	Vertical	326	1.80	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	53.88	54.00	-0.12	3	Horizontal	319	1.26	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	2.3854G	49.12	54.00	-4.88	3	Vertical	323	2.53	-
2412MHz_TX	Pass	AV	2.4128G	104.15	Inf	-Inf	3	Vertical	323	2.53	-
2412MHz_TX	Pass	PK	2.3838G	59.74	74.00	-14.26	3	Vertical	323	2.53	-
2412MHz_TX	Pass	PK	2.4128G	106.62	Inf	-Inf	3	Vertical	323	2.53	-
2412MHz_TX	Pass	AV	2.3854G	48.71	54.00	-5.29	3	Horizontal	313	2.38	-
2412MHz_TX	Pass	AV	2.4136G	103.28	Inf	-Inf	3	Horizontal	313	2.38	-
2412MHz_TX	Pass	PK	2.3866G	59.07	74.00	-14.93	3	Horizontal	313	2.38	-
2412MHz_TX	Pass	PK	2.4128G	105.78	Inf	-Inf	3	Horizontal	313	2.38	-
2412MHz_TX	Pass	AV	4.82392G	45.35	54.00	-8.65	3	Vertical	360	2.26	-
2412MHz_TX	Pass	PK	4.82408G	49.69	74.00	-24.31	3	Vertical	360	2.26	-
2412MHz_TX	Pass	PK	4.82399G	55.76	74.00	-18.24	3	Horizontal	357	2.21	-
2412MHz_TX	Pass	AV	4.82392G	53.49	54.00	-0.51	3	Horizontal	357	2.21	-
2417MHz_TX	Pass	AV	2.39G	48.28	54.00	-5.72	3	Vertical	328	1.63	-
2417MHz_TX	Pass	AV	2.4178G	105.20	Inf	-Inf	3	Vertical	328	1.63	-
2417MHz_TX	Pass	PK	2.39G	59.25	74.00	-14.75	3	Vertical	328	1.63	-
2417MHz_TX	Pass	PK	2.4178G	107.67	Inf	-Inf	3	Vertical	328	1.63	-
2417MHz_TX	Pass	AV	2.39G	48.06	54.00	-5.94	3	Horizontal	313	2.20	-
2417MHz_TX	Pass	AV	2.4178G	104.98	Inf	-Inf	3	Horizontal	313	2.20	-
2417MHz_TX	Pass	PK	2.3894G	58.68	74.00	-15.32	3	Horizontal	313	2.20	-
2417MHz_TX	Pass	PK	2.4178G	107.42	Inf	-Inf	3	Horizontal	313	2.20	-
2417MHz_TX	Pass	AV	4.83394G	46.93	54.00	-7.07	3	Vertical	349	2.96	-
2417MHz_TX	Pass	PK	4.8339G	50.96	74.00	-23.04	3	Vertical	349	2.96	-
2417MHz_TX	Pass	AV	4.83394G	53.54	54.00	-0.46	3	Horizontal	355	2.38	-
2417MHz_TX	Pass	PK	4.83395G	55.98	74.00	-18.02	3	Horizontal	355	2.38	-
2437MHz_TX	Pass	AV	2.3882G	46.07	54.00	-7.93	3	Vertical	321	2.00	-
2437MHz_TX	Pass	AV	2.4362G	107.25	Inf	-Inf	3	Vertical	321	2.00	-
2437MHz_TX	Pass	AV	2.485G	46.16	54.00	-7.84	3	Vertical	321	2.00	-
2437MHz_TX	Pass	PK	2.339G	58.03	74.00	-15.97	3	Vertical	321	2.00	-
2437MHz_TX	Pass	PK	2.4362G	109.69	Inf	-Inf	3	Vertical	321	2.00	-
2437MHz_TX	Pass	PK	2.4958G	57.71	74.00	-16.29	3	Vertical	321	2.00	-
2437MHz_TX	Pass	AV	2.3846G	45.79	54.00	-8.21	3	Horizontal	315	1.84	-
2437MHz_TX	Pass	AV	2.4378G	108.03	Inf	-Inf	3	Horizontal	315	1.84	-
2437MHz_TX	Pass	AV	2.4858G	46.71	54.00	-7.29	3	Horizontal	315	1.84	-
2437MHz_TX	Pass	PK	2.359G	58.41	74.00	-15.59	3	Horizontal	315	1.84	-
2437MHz_TX	Pass	PK	2.4362G	110.49	Inf	-Inf	3	Horizontal	315	1.84	-
2437MHz_TX	Pass	PK	2.4934G	58.15	74.00	-15.85	3	Horizontal	315	1.84	-
2437MHz_TX	Pass	AV	4.87392G	45.37	54.00	-8.63	3	Vertical	354	2.20	-
2437MHz_TX	Pass	PK	4.87389G	50.51	74.00	-23.49	3	Vertical	354	2.20	-
2437MHz_TX	Pass	AV	4.87393G	50.35	54.00	-3.65	3	Horizontal	353	2.30	-
2437MHz_TX	Pass	PK	4.87395G	53.42	74.00	-20.58	3	Horizontal	353	2.30	-
2457MHz_TX	Pass	AV	2.4562G	105.64	Inf	-Inf	3	Vertical	312	1.28	-
2457MHz_TX	Pass	AV	2.4835G	50.42	54.00	-3.58	3	Vertical	312	1.28	-
2457MHz_TX	Pass	PK	2.4562G	108.11	Inf	-Inf	3	Vertical	312	1.28	-
2457MHz_TX	Pass	PK	2.4836G	59.44	74.00	-14.56	3	Vertical	312	1.28	-
2457MHz_TX	Pass	AV	2.4562G	107.46	Inf	-Inf	3	Horizontal	313	2.20	-
2457MHz_TX	Pass	AV	2.4835G	52.60	54.00	-1.40	3	Horizontal	313	2.20	-
2457MHz_TX	Pass	PK	2.456G	109.88	Inf	-Inf	3	Horizontal	313	2.20	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2457MHz_TX	Pass	PK	2.4838G	60.72	74.00	-13.28	3	Horizontal	313	2.20	-
2457MHz_TX	Pass	AV	4.91391G	44.90	54.00	-9.10	3	Vertical	360	1.86	-
2457MHz_TX	Pass	PK	4.91402G	49.80	74.00	-24.20	3	Vertical	360	1.86	-
2457MHz_TX	Pass	AV	4.91393G	48.43	54.00	-5.57	3	Horizontal	354	2.27	-
2457MHz_TX	Pass	PK	4.91396G	52.07	74.00	-21.93	3	Horizontal	354	2.27	-
2462MHz_TX	Pass	AV	2.4612G	105.12	Inf	-Inf	3	Vertical	322	1.50	-
2462MHz_TX	Pass	AV	2.4878G	50.41	54.00	-3.59	3	Vertical	322	1.50	-
2462MHz_TX	Pass	PK	2.4612G	107.57	Inf	-Inf	3	Vertical	322	1.50	-
2462MHz_TX	Pass	PK	2.4864G	59.98	74.00	-14.02	3	Vertical	322	1.50	-
2462MHz_TX	Pass	AV	2.4628G	106.24	Inf	-Inf	3	Horizontal	321	1.39	-
2462MHz_TX	Pass	AV	2.4876G	52.45	54.00	-1.55	3	Horizontal	321	1.39	-
2462MHz_TX	Pass	PK	2.4628G	108.74	Inf	-Inf	3	Horizontal	321	1.39	-
2462MHz_TX	Pass	PK	2.488G	60.81	74.00	-13.19	3	Horizontal	321	1.39	-
2462MHz_TX	Pass	AV	4.92393G	45.46	54.00	-8.54	3	Vertical	352	2.31	-
2462MHz_TX	Pass	PK	4.92397G	50.22	74.00	-23.78	3	Vertical	352	2.31	-
2462MHz_TX	Pass	AV	4.92395G	46.38	54.00	-7.62	3	Horizontal	356	2.62	-
2462MHz_TX	Pass	PK	4.92399G	50.49	74.00	-23.51	3	Horizontal	356	2.62	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	2.39G	53.39	54.00	-0.61	3	Vertical	322	1.59	-
2412MHz_TX	Pass	AV	2.4132G	100.12	Inf	-Inf	3	Vertical	322	1.59	-
2412MHz_TX	Pass	PK	2.39G	68.46	74.00	-5.54	3	Vertical	322	1.59	-
2412MHz_TX	Pass	PK	2.4134G	108.48	Inf	-Inf	3	Vertical	322	1.59	-
2412MHz_TX	Pass	AV	2.39G	53.51	54.00	-0.49	3	Horizontal	314	2.22	-
2412MHz_TX	Pass	AV	2.4132G	99.71	Inf	-Inf	3	Horizontal	314	2.22	-
2412MHz_TX	Pass	PK	2.39G	68.53	74.00	-5.47	3	Horizontal	314	2.22	-
2412MHz_TX	Pass	PK	2.4134G	108.14	Inf	-Inf	3	Horizontal	314	2.22	-
2412MHz_TX	Pass	AV	4.82568G	34.69	54.00	-19.31	3	Vertical	0	2.75	-
2412MHz_TX	Pass	PK	4.82556G	46.36	74.00	-27.64	3	Vertical	0	2.75	-
2412MHz_TX	Pass	AV	4.82612G	40.31	54.00	-13.69	3	Horizontal	360	2.23	-
2412MHz_TX	Pass	PK	4.82224G	52.46	74.00	-21.54	3	Horizontal	360	2.23	-
2417MHz_TX	Pass	AV	2.39G	50.22	54.00	-3.78	3	Vertical	328	1.61	-
2417MHz_TX	Pass	AV	2.418G	102.27	Inf	-Inf	3	Vertical	328	1.61	-
2417MHz_TX	Pass	PK	2.3896G	63.63	74.00	-10.37	3	Vertical	328	1.61	-
2417MHz_TX	Pass	PK	2.4186G	110.25	Inf	-Inf	3	Vertical	328	1.61	-
2417MHz_TX	Pass	AV	2.39G	50.22	54.00	-3.78	3	Horizontal	311	2.19	-
2417MHz_TX	Pass	AV	2.4178G	101.98	Inf	-Inf	3	Horizontal	311	2.19	-
2417MHz_TX	Pass	PK	2.3894G	65.15	74.00	-8.85	3	Horizontal	311	2.19	-
2417MHz_TX	Pass	PK	2.4184G	110.13	Inf	-Inf	3	Horizontal	311	2.19	-
2437MHz_TX	Pass	AV	2.389G	46.61	54.00	-7.39	3	Vertical	336	1.16	-
2437MHz_TX	Pass	AV	2.4378G	103.91	Inf	-Inf	3	Vertical	336	1.16	-
2437MHz_TX	Pass	AV	2.4838G	47.25	54.00	-6.75	3	Vertical	336	1.16	-
2437MHz_TX	Pass	PK	2.3818G	58.03	74.00	-15.97	3	Vertical	336	1.16	-
2437MHz_TX	Pass	PK	2.4378G	112.06	Inf	-Inf	3	Vertical	336	1.16	-
2437MHz_TX	Pass	PK	2.4842G	58.09	74.00	-15.91	3	Vertical	336	1.16	-
2437MHz_TX	Pass	AV	2.3794G	46.38	54.00	-7.62	3	Horizontal	316	1.73	-
2437MHz_TX	Pass	AV	2.4378G	104.71	Inf	-Inf	3	Horizontal	316	1.73	-
2437MHz_TX	Pass	AV	2.4878G	47.73	54.00	-6.27	3	Horizontal	316	1.73	-
2437MHz_TX	Pass	PK	2.3574G	58.29	74.00	-15.71	3	Horizontal	316	1.73	-
2437MHz_TX	Pass	PK	2.4386G	112.76	Inf	-Inf	3	Horizontal	316	1.73	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz_TX	Pass	PK	2.485G	59.87	74.00	-14.13	3	Horizontal	316	1.73	-
2437MHz_TX	Pass	AV	4.87584G	33.50	54.00	-20.50	3	Vertical	360	1.50	-
2437MHz_TX	Pass	PK	4.87256G	46.25	74.00	-27.75	3	Vertical	360	1.50	-
2437MHz_TX	Pass	AV	4.87196G	38.20	54.00	-15.80	3	Horizontal	0	2.32	-
2437MHz_TX	Pass	PK	4.87216G	50.05	74.00	-23.95	3	Horizontal	0	2.32	-
2457MHz_TX	Pass	AV	2.456G	99.61	Inf	-Inf	3	Vertical	315	2.16	-
2457MHz_TX	Pass	AV	2.4835G	49.87	54.00	-4.13	3	Vertical	315	2.16	-
2457MHz_TX	Pass	PK	2.4584G	107.70	Inf	-Inf	3	Vertical	315	2.16	-
2457MHz_TX	Pass	PK	2.4836G	64.81	74.00	-9.19	3	Vertical	315	2.16	-
2457MHz_TX	Pass	AV	2.4578G	103.70	Inf	-Inf	3	Horizontal	326	2.16	-
2457MHz_TX	Pass	AV	2.4835G	52.46	54.00	-1.54	3	Horizontal	326	2.16	-
2457MHz_TX	Pass	PK	2.4584G	111.94	Inf	-Inf	3	Horizontal	326	2.16	-
2457MHz_TX	Pass	PK	2.4836G	67.90	74.00	-6.10	3	Horizontal	326	2.16	-
2462MHz_TX	Pass	AV	2.4612G	99.66	Inf	-Inf	3	Vertical	350	2.52	-
2462MHz_TX	Pass	AV	2.4835G	51.10	54.00	-2.90	3	Vertical	350	2.52	-
2462MHz_TX	Pass	PK	2.4634G	107.95	Inf	-Inf	3	Vertical	350	2.52	-
2462MHz_TX	Pass	PK	2.4842G	63.35	74.00	-10.65	3	Vertical	350	2.52	-
2462MHz_TX	Pass	AV	2.463G	101.26	Inf	-Inf	3	Horizontal	327	2.16	-
2462MHz_TX	Pass	AV	2.4835G	53.27	54.00	-0.73	3	Horizontal	327	2.16	-
2462MHz_TX	Pass	PK	2.4634G	109.65	Inf	-Inf	3	Horizontal	327	2.16	-
2462MHz_TX	Pass	PK	2.484G	67.36	74.00	-6.64	3	Horizontal	327	2.16	-
2462MHz_TX	Pass	AV	4.92292G	33.31	54.00	-20.69	3	Vertical	351	2.95	-
2462MHz_TX	Pass	PK	4.92008G	45.33	74.00	-28.67	3	Vertical	351	2.95	-
2462MHz_TX	Pass	AV	4.92528G	34.33	54.00	-19.67	3	Horizontal	357	2.27	-
2462MHz_TX	Pass	PK	4.9194G	47.05	74.00	-26.95	3	Horizontal	357	2.27	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	2.39G	53.27	54.00	-0.73	3	Vertical	325	1.60	-
2412MHz_TX	Pass	AV	2.4134G	98.64	Inf	-Inf	3	Vertical	325	1.60	-
2412MHz_TX	Pass	PK	2.3894G	66.89	74.00	-7.11	3	Vertical	325	1.60	-
2412MHz_TX	Pass	PK	2.4148G	106.84	Inf	-Inf	3	Vertical	325	1.60	-
2412MHz_TX	Pass	AV	2.39G	53.39	54.00	-0.61	3	Horizontal	314	2.21	-
2412MHz_TX	Pass	AV	2.4134G	98.35	Inf	-Inf	3	Horizontal	314	2.21	-
2412MHz_TX	Pass	PK	2.3892G	66.60	74.00	-7.40	3	Horizontal	314	2.21	-
2412MHz_TX	Pass	PK	2.4154G	106.33	Inf	-Inf	3	Horizontal	314	2.21	-
2412MHz_TX	Pass	AV	4.8238G	35.17	54.00	-18.83	3	Vertical	349	3.00	-
2412MHz_TX	Pass	PK	4.82424G	46.64	74.00	-27.36	3	Vertical	349	3.00	-
2412MHz_TX	Pass	AV	4.8222G	39.40	54.00	-14.60	3	Horizontal	360	2.22	-
2412MHz_TX	Pass	PK	4.82464G	50.92	74.00	-23.08	3	Horizontal	360	2.22	-
2417MHz_TX	Pass	AV	2.3896G	52.63	54.00	-1.37	3	Vertical	329	1.63	-
2417MHz_TX	Pass	AV	2.4184G	102.19	Inf	-Inf	3	Vertical	329	1.63	-
2417MHz_TX	Pass	PK	2.39G	69.83	74.00	-4.17	3	Vertical	329	1.63	-
2417MHz_TX	Pass	PK	2.418G	109.90	Inf	-Inf	3	Vertical	329	1.63	-
2417MHz_TX	Pass	AV	2.3894G	51.81	54.00	-2.19	3	Horizontal	314	2.19	-
2417MHz_TX	Pass	AV	2.4182G	101.91	Inf	-Inf	3	Horizontal	314	2.19	-
2417MHz_TX	Pass	PK	2.3898G	65.66	74.00	-8.34	3	Horizontal	314	2.19	-
2417MHz_TX	Pass	PK	2.4178G	110.19	Inf	-Inf	3	Horizontal	314	2.19	-
2437MHz_TX	Pass	AV	2.357G	47.51	54.00	-6.49	3	Vertical	338	1.16	-
2437MHz_TX	Pass	AV	2.4374G	103.56	Inf	-Inf	3	Vertical	338	1.16	-
2437MHz_TX	Pass	AV	2.4838G	47.98	54.00	-6.02	3	Vertical	338	1.16	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz_TX	Pass	PK	2.383G	59.45	74.00	-14.55	3	Vertical	338	1.16	-
2437MHz_TX	Pass	PK	2.4358G	111.59	Inf	-Inf	3	Vertical	338	1.16	-
2437MHz_TX	Pass	PK	2.4986G	58.85	74.00	-15.15	3	Vertical	338	1.16	-
2437MHz_TX	Pass	AV	2.3882G	47.12	54.00	-6.88	3	Horizontal	315	1.71	-
2437MHz_TX	Pass	AV	2.4374G	104.37	Inf	-Inf	3	Horizontal	315	1.71	-
2437MHz_TX	Pass	AV	2.4835G	48.87	54.00	-5.13	3	Horizontal	315	1.71	-
2437MHz_TX	Pass	PK	2.3398G	58.38	74.00	-15.62	3	Horizontal	315	1.71	-
2437MHz_TX	Pass	PK	2.4382G	112.21	Inf	-Inf	3	Horizontal	315	1.71	-
2437MHz_TX	Pass	PK	2.4846G	61.14	74.00	-12.86	3	Horizontal	315	1.71	-
2437MHz_TX	Pass	AV	4.87488G	35.42	54.00	-18.58	3	Vertical	360	2.08	-
2437MHz_TX	Pass	PK	4.8758G	46.24	74.00	-27.76	3	Vertical	360	2.08	-
2437MHz_TX	Pass	AV	4.87464G	39.19	54.00	-14.81	3	Horizontal	360	2.34	-
2437MHz_TX	Pass	PK	4.87452G	50.72	74.00	-23.28	3	Horizontal	360	2.34	-
2457MHz_TX	Pass	AV	2.4556G	101.07	Inf	-Inf	3	Vertical	315	1.28	-
2457MHz_TX	Pass	AV	2.4836G	50.60	54.00	-3.40	3	Vertical	315	1.28	-
2457MHz_TX	Pass	PK	2.4558G	108.85	Inf	-Inf	3	Vertical	315	1.28	-
2457MHz_TX	Pass	PK	2.484G	65.01	74.00	-8.99	3	Vertical	315	1.28	-
2457MHz_TX	Pass	AV	2.4576G	103.04	Inf	-Inf	3	Horizontal	328	2.18	-
2457MHz_TX	Pass	AV	2.4835G	52.74	54.00	-1.26	3	Horizontal	328	2.18	-
2457MHz_TX	Pass	PK	2.458G	110.77	Inf	-Inf	3	Horizontal	328	2.18	-
2457MHz_TX	Pass	PK	2.4838G	68.36	74.00	-5.64	3	Horizontal	328	2.18	-
2462MHz_TX	Pass	AV	2.4626G	98.64	Inf	-Inf	3	Vertical	326	1.80	-
2462MHz_TX	Pass	AV	2.4836G	53.88	54.00	-0.12	3	Vertical	326	1.80	-
2462MHz_TX	Pass	PK	2.4614G	106.36	Inf	-Inf	3	Vertical	326	1.80	-
2462MHz_TX	Pass	PK	2.484G	67.71	74.00	-6.29	3	Vertical	326	1.80	-
2462MHz_TX	Pass	AV	2.4606G	97.51	Inf	-Inf	3	Horizontal	349	2.14	-
2462MHz_TX	Pass	AV	2.4835G	53.76	54.00	-0.24	3	Horizontal	349	2.14	-
2462MHz_TX	Pass	PK	2.4608G	105.18	Inf	-Inf	3	Horizontal	349	2.14	-
2462MHz_TX	Pass	PK	2.4836G	68.15	74.00	-5.85	3	Horizontal	349	2.14	-
2462MHz_TX	Pass	AV	4.9264G	33.90	54.00	-20.10	3	Vertical	357	2.01	-
2462MHz_TX	Pass	PK	4.92512G	45.08	74.00	-28.92	3	Vertical	357	2.01	-
2462MHz_TX	Pass	AV	4.92196G	34.98	54.00	-19.02	3	Horizontal	359	2.14	-
2462MHz_TX	Pass	PK	4.927G	47.01	74.00	-26.99	3	Horizontal	359	2.14	-
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TX	Pass	AV	2.3896G	52.89	54.00	-1.11	3	Vertical	322	1.84	-
2422MHz_TX	Pass	AV	2.4236G	94.76	Inf	-Inf	3	Vertical	322	1.84	-
2422MHz_TX	Pass	AV	2.4948G	47.50	54.00	-6.50	3	Vertical	322	1.84	-
2422MHz_TX	Pass	PK	2.3868G	64.78	74.00	-9.22	3	Vertical	322	1.84	-
2422MHz_TX	Pass	PK	2.4252G	102.22	Inf	-Inf	3	Vertical	322	1.84	-
2422MHz_TX	Pass	PK	2.4924G	58.91	74.00	-15.09	3	Vertical	322	1.84	-
2422MHz_TX	Pass	AV	2.3896G	52.63	54.00	-1.37	3	Horizontal	319	2.46	-
2422MHz_TX	Pass	AV	2.4236G	94.95	Inf	-Inf	3	Horizontal	319	2.46	-
2422MHz_TX	Pass	AV	2.4896G	47.97	54.00	-6.03	3	Horizontal	319	2.46	-
2422MHz_TX	Pass	PK	2.3896G	65.39	74.00	-8.61	3	Horizontal	319	2.46	-
2422MHz_TX	Pass	PK	2.428G	102.98	Inf	-Inf	3	Horizontal	319	2.46	-
2422MHz_TX	Pass	PK	2.4852G	58.23	74.00	-15.77	3	Horizontal	319	2.46	-
2422MHz_TX	Pass	AV	4.8502G	33.15	54.00	-20.85	3	Vertical	360	1.88	-
2422MHz_TX	Pass	PK	4.84284G	44.42	74.00	-29.58	3	Vertical	360	1.88	-
2422MHz_TX	Pass	AV	4.84356G	35.48	54.00	-18.52	3	Horizontal	0	2.37	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2422MHz_TX	Pass	PK	4.84472G	46.76	74.00	-27.24	3	Horizontal	0	2.37	-
2427MHz_TX	Pass	AV	2.3898G	53.39	54.00	-0.61	3	Vertical	325	1.85	-
2427MHz_TX	Pass	AV	2.4286G	96.63	Inf	-Inf	3	Vertical	325	1.85	-
2427MHz_TX	Pass	AV	2.4838G	47.74	54.00	-6.26	3	Vertical	325	1.85	-
2427MHz_TX	Pass	PK	2.3894G	64.74	74.00	-9.26	3	Vertical	325	1.85	-
2427MHz_TX	Pass	PK	2.431G	104.53	Inf	-Inf	3	Vertical	325	1.85	-
2427MHz_TX	Pass	PK	2.4886G	58.15	74.00	-15.85	3	Vertical	325	1.85	-
2427MHz_TX	Pass	AV	2.3898G	52.63	54.00	-1.37	3	Horizontal	317	1.74	-
2427MHz_TX	Pass	AV	2.4286G	96.56	Inf	-Inf	3	Horizontal	317	1.74	-
2427MHz_TX	Pass	AV	2.4838G	47.98	54.00	-6.02	3	Horizontal	317	1.74	-
2427MHz_TX	Pass	PK	2.389G	65.95	74.00	-8.05	3	Horizontal	317	1.74	-
2427MHz_TX	Pass	PK	2.4286G	103.84	Inf	-Inf	3	Horizontal	317	1.74	-
2427MHz_TX	Pass	PK	2.485G	58.59	74.00	-15.41	3	Horizontal	317	1.74	-
2437MHz_TX	Pass	AV	2.3894G	50.39	54.00	-3.61	3	Vertical	338	1.15	-
2437MHz_TX	Pass	AV	2.4386G	99.18	Inf	-Inf	3	Vertical	338	1.15	-
2437MHz_TX	Pass	AV	2.4835G	53.14	54.00	-0.86	3	Vertical	338	1.15	-
2437MHz_TX	Pass	PK	2.3898G	61.64	74.00	-12.36	3	Vertical	338	1.15	-
2437MHz_TX	Pass	PK	2.4358G	106.65	Inf	-Inf	3	Vertical	338	1.15	-
2437MHz_TX	Pass	PK	2.4835G	64.68	74.00	-9.32	3	Vertical	338	1.15	-
2437MHz_TX	Pass	AV	2.3894G	47.37	54.00	-6.63	3	Horizontal	347	1.00	-
2437MHz_TX	Pass	AV	2.4386G	95.71	Inf	-Inf	3	Horizontal	347	1.00	-
2437MHz_TX	Pass	AV	2.4835G	53.27	54.00	-0.73	3	Horizontal	347	1.00	-
2437MHz_TX	Pass	PK	2.3898G	58.21	74.00	-15.79	3	Horizontal	347	1.00	-
2437MHz_TX	Pass	PK	2.4414G	103.37	Inf	-Inf	3	Horizontal	347	1.00	-
2437MHz_TX	Pass	PK	2.4838G	64.36	74.00	-9.64	3	Horizontal	347	1.00	-
2437MHz_TX	Pass	AV	4.87488G	33.92	54.00	-20.08	3	Vertical	0	2.54	-
2437MHz_TX	Pass	PK	4.88204G	44.93	74.00	-29.07	3	Vertical	0	2.54	-
2437MHz_TX	Pass	AV	4.87464G	36.43	54.00	-17.57	3	Horizontal	0	2.62	-
2437MHz_TX	Pass	PK	4.87456G	46.98	74.00	-27.02	3	Horizontal	0	2.62	-
2447MHz_TX	Pass	AV	2.3722G	47.19	54.00	-6.81	3	Vertical	351	2.57	-
2447MHz_TX	Pass	AV	2.4458G	95.59	Inf	-Inf	3	Vertical	351	2.57	-
2447MHz_TX	Pass	AV	2.4835G	51.73	54.00	-2.27	3	Vertical	351	2.57	-
2447MHz_TX	Pass	PK	2.3722G	58.14	74.00	-15.86	3	Vertical	351	2.57	-
2447MHz_TX	Pass	PK	2.4458G	103.13	Inf	-Inf	3	Vertical	351	2.57	-
2447MHz_TX	Pass	PK	2.4835G	62.94	74.00	-11.06	3	Vertical	351	2.57	-
2447MHz_TX	Pass	AV	2.3494G	47.05	54.00	-6.95	3	Horizontal	319	1.26	-
2447MHz_TX	Pass	AV	2.4486G	96.51	Inf	-Inf	3	Horizontal	319	1.26	-
2447MHz_TX	Pass	AV	2.4835G	53.88	54.00	-0.12	3	Horizontal	319	1.26	-
2447MHz_TX	Pass	PK	2.359G	58.48	74.00	-15.52	3	Horizontal	319	1.26	-
2447MHz_TX	Pass	PK	2.4502G	103.93	Inf	-Inf	3	Horizontal	319	1.26	-
2447MHz_TX	Pass	PK	2.4858G	67.77	74.00	-6.23	3	Horizontal	319	1.26	-
2452MHz_TX	Pass	AV	2.3528G	47.03	54.00	-6.97	3	Vertical	334	1.41	-
2452MHz_TX	Pass	AV	2.4536G	92.97	Inf	-Inf	3	Vertical	334	1.41	-
2452MHz_TX	Pass	AV	2.4835G	51.73	54.00	-2.27	3	Vertical	334	1.41	-
2452MHz_TX	Pass	PK	2.3672G	58.17	74.00	-15.83	3	Vertical	334	1.41	-
2452MHz_TX	Pass	PK	2.4544G	100.61	Inf	-Inf	3	Vertical	334	1.41	-
2452MHz_TX	Pass	PK	2.4848G	65.11	74.00	-8.89	3	Vertical	334	1.41	-
2452MHz_TX	Pass	AV	2.352G	47.05	54.00	-6.95	3	Horizontal	319	1.49	-
2452MHz_TX	Pass	AV	2.4536G	95.09	Inf	-Inf	3	Horizontal	319	1.49	-

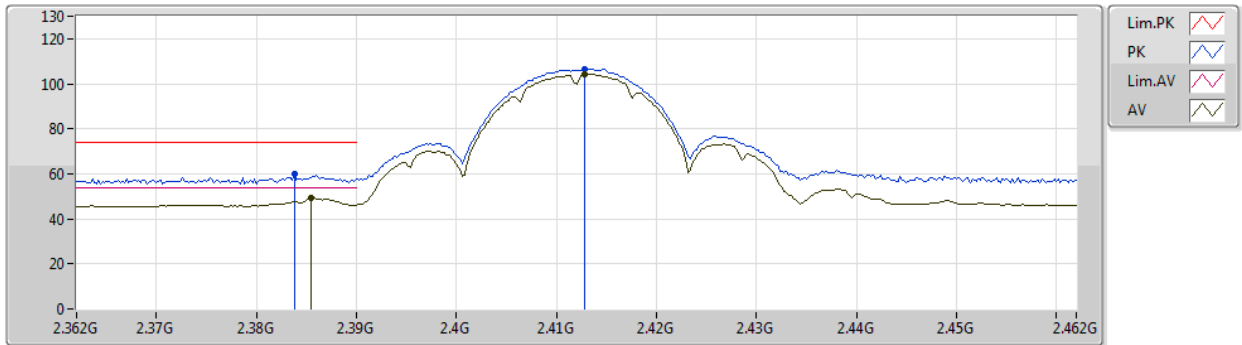


Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2452MHz_TX	Pass	AV	2.4835G	53.01	54.00	-0.99	3	Horizontal	319	1.49	-
2452MHz_TX	Pass	PK	2.3876G	58.14	74.00	-15.86	3	Horizontal	319	1.49	-
2452MHz_TX	Pass	PK	2.454G	102.31	Inf	-Inf	3	Horizontal	319	1.49	-
2452MHz_TX	Pass	PK	2.4844G	66.18	74.00	-7.82	3	Horizontal	319	1.49	-
2452MHz_TX	Pass	AV	4.91008G	32.56	54.00	-21.44	3	Vertical	20	1.50	-
2452MHz_TX	Pass	PK	4.9114G	43.70	74.00	-30.30	3	Vertical	20	1.50	-
2452MHz_TX	Pass	AV	4.9134G	32.83	54.00	-21.17	3	Horizontal	315	1.50	-
2452MHz_TX	Pass	PK	4.90336G	43.78	74.00	-30.22	3	Horizontal	315	1.50	-

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2412MHz_TX

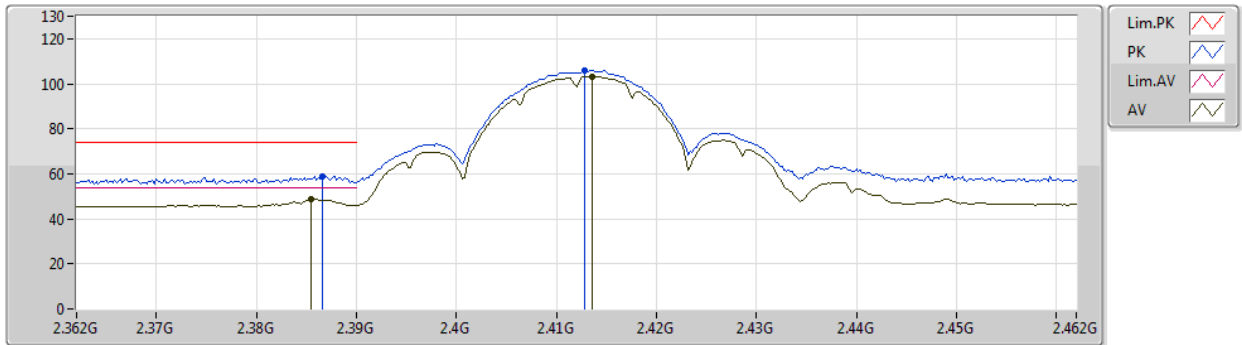


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3854G	49.12	54.00	-4.88	31.39	3	Vertical	323	2.53	-	17.73	27.73	3.66	-
AV	2.4128G	104.15	Inf	-Inf	31.37	3	Vertical	323	2.53	-	72.78	27.69	3.68	-
PK	2.3838G	59.74	74.00	-14.26	31.39	3	Vertical	323	2.53	-	28.35	27.73	3.66	-
PK	2.4128G	106.62	Inf	-Inf	31.37	3	Vertical	323	2.53	-	75.25	27.69	3.68	-

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2412MHz_TX

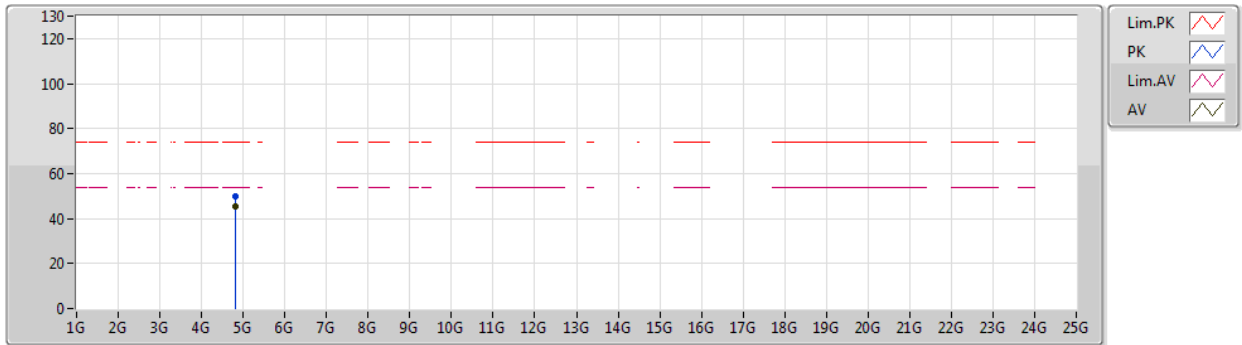


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3854G	48.71	54.00	-5.29	31.39	3	Horizontal	313	2.38	-	17.32	27.73	3.66	-
AV	2.4136G	103.28	Inf	-Inf	31.37	3	Horizontal	313	2.38	-	71.91	27.69	3.68	-
PK	2.3866G	59.07	74.00	-14.93	31.39	3	Horizontal	313	2.38	-	27.68	27.73	3.66	-
PK	2.4128G	105.78	Inf	-Inf	31.37	3	Horizontal	313	2.38	-	74.41	27.69	3.68	-

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2412MHz_TX

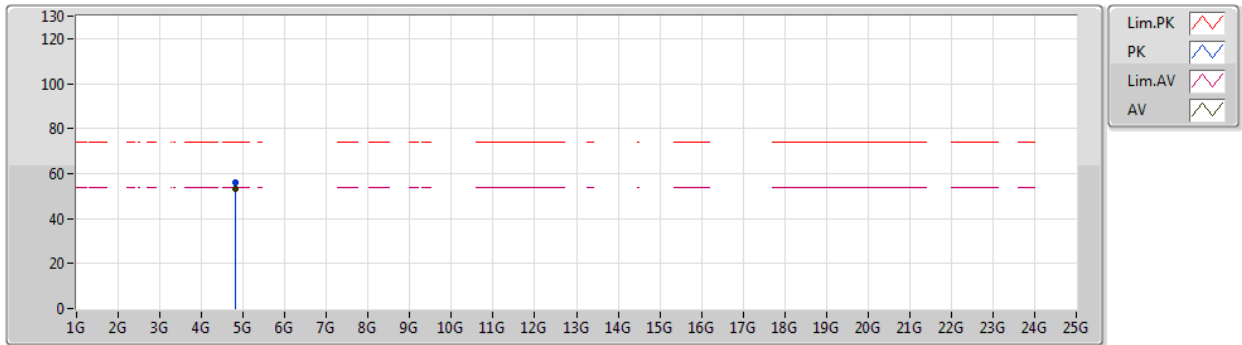


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82392G	45.35	54.00	-8.65	2.02	3	Vertical	360	2.26	-	43.33	31.22	5.33	34.53
PK	4.82408G	49.69	74.00	-24.31	2.02	3	Vertical	360	2.26	-	47.67	31.22	5.33	34.53

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2412MHz_TX

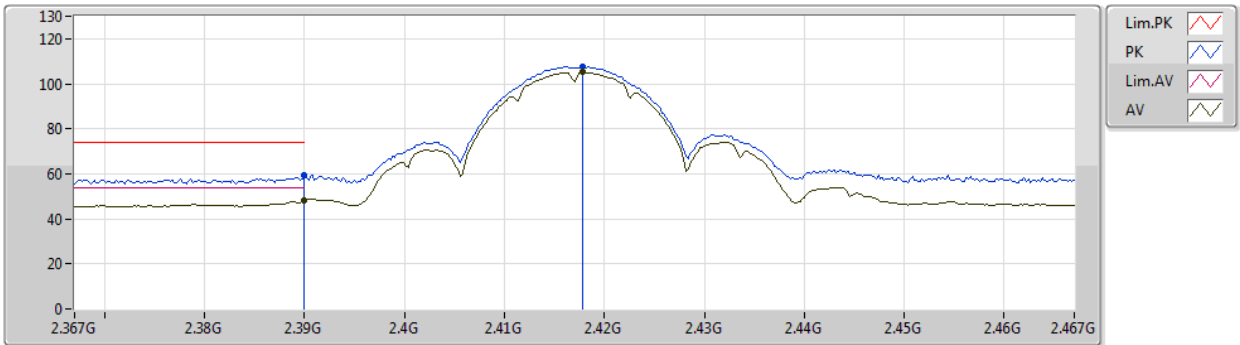


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	4.82399G	55.76	74.00	-18.24	2.02	3	Horizontal	357	2.21	-	53.74	31.22	5.33	34.53
AV	4.82392G	53.49	54.00	-0.51	2.02	3	Horizontal	357	2.21	-	51.47	31.22	5.33	34.53

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2417MHz_TX

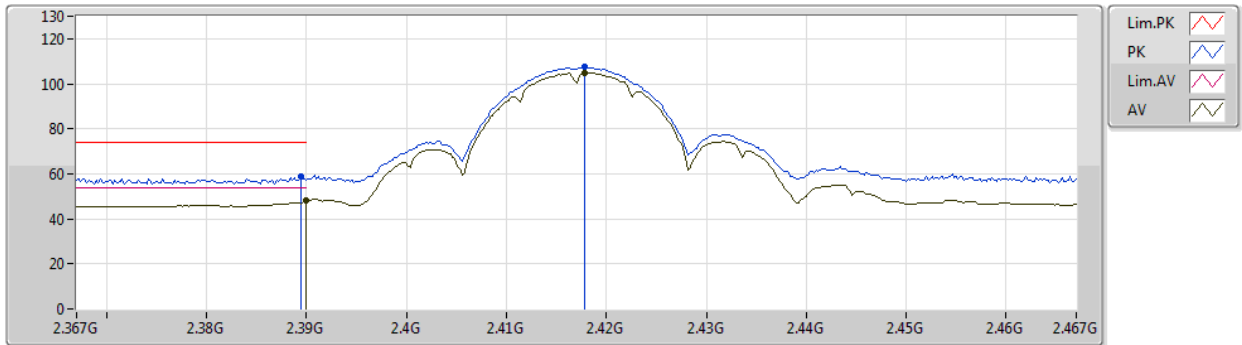


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	48.28	54.00	-5.72	31.38	3	Vertical	328	1.63	-	16.90	27.72	3.66	-
AV	2.4178G	105.20	Inf	-Inf	31.37	3	Vertical	328	1.63	-	73.83	27.68	3.69	-
PK	2.39G	59.25	74.00	-14.75	31.38	3	Vertical	328	1.63	-	27.87	27.72	3.66	-
PK	2.4178G	107.67	Inf	-Inf	31.37	3	Vertical	328	1.63	-	76.30	27.68	3.69	-

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2417MHz_TX

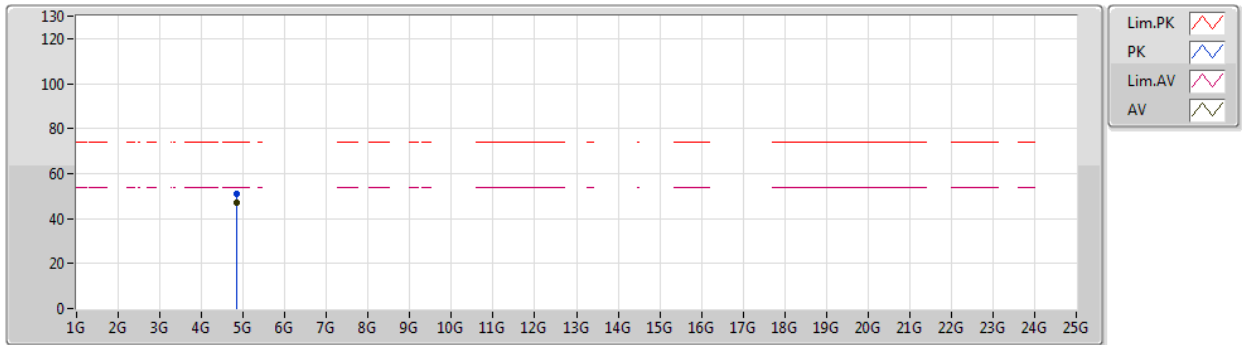


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	48.06	54.00	-5.94	31.38	3	Horizontal	313	2.20	-	16.68	27.72	3.66	-
AV	2.4178G	104.98	Inf	-Inf	31.37	3	Horizontal	313	2.20	-	73.61	27.68	3.69	-
PK	2.3894G	58.68	74.00	-15.32	31.38	3	Horizontal	313	2.20	-	27.30	27.72	3.66	-
PK	2.4178G	107.42	Inf	-Inf	31.37	3	Horizontal	313	2.20	-	76.05	27.68	3.69	-

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2417MHz_TX

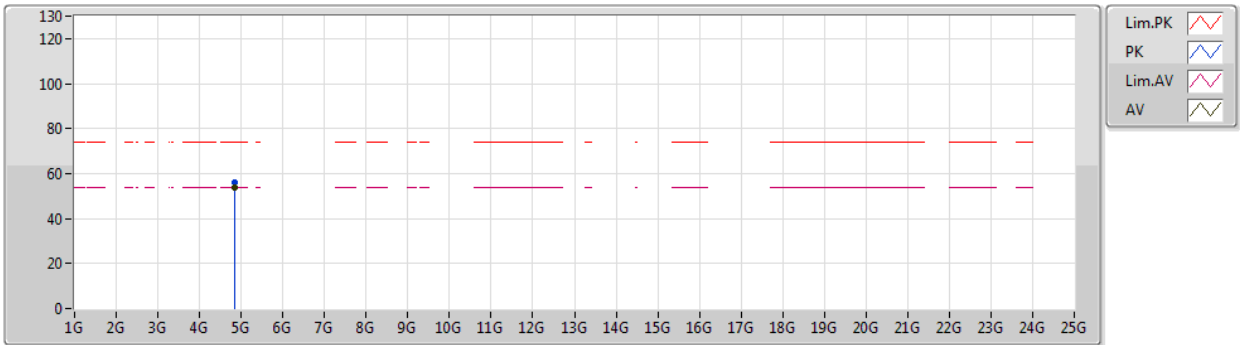


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.83394G	46.93	54.00	-7.07	2.04	3	Vertical	349	2.96	-	44.89	31.23	5.34	34.53
PK	4.8339G	50.96	74.00	-23.04	2.04	3	Vertical	349	2.96	-	48.92	31.23	5.34	34.53

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2417MHz_TX

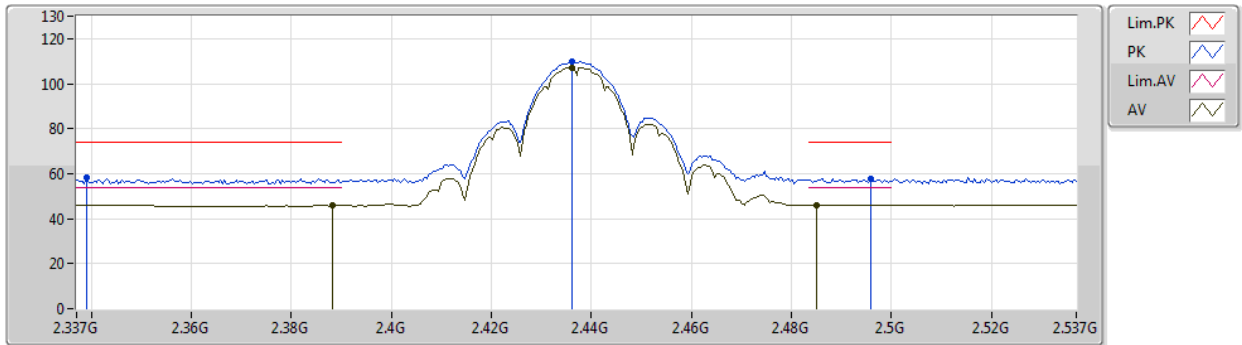


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.83394G	53.54	54.00	-0.46	2.04	3	Horizontal	355	2.38	-	51.50	31.23	5.34	34.53
PK	4.83395G	55.98	74.00	-18.02	2.04	3	Horizontal	355	2.38	-	53.94	31.23	5.34	34.53

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2437MHz_TX

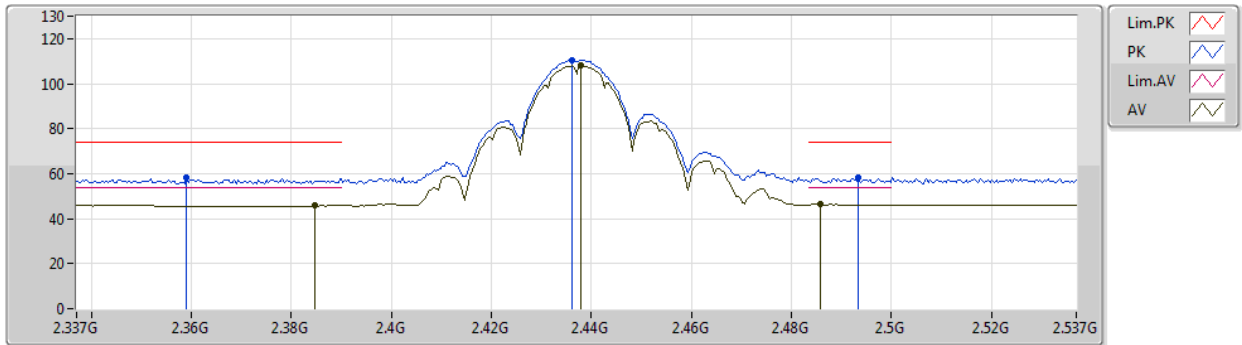


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3882G	46.07	54.00	-7.93	31.38	3	Vertical	321	2.00	-	14.69	27.72	3.66	-
AV	2.4362G	107.25	Inf	-Inf	31.36	3	Vertical	321	2.00	-	75.89	27.66	3.70	-
AV	2.485G	46.16	54.00	-7.84	31.37	3	Vertical	321	2.00	-	14.79	27.62	3.75	-
PK	2.339G	58.03	74.00	-15.97	31.45	3	Vertical	321	2.00	-	26.58	27.82	3.63	-
PK	2.4362G	109.69	Inf	-Inf	31.36	3	Vertical	321	2.00	-	78.33	27.66	3.70	-
PK	2.4958G	57.71	74.00	-16.29	31.36	3	Vertical	321	2.00	-	26.35	27.60	3.76	-

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2437MHz_TX

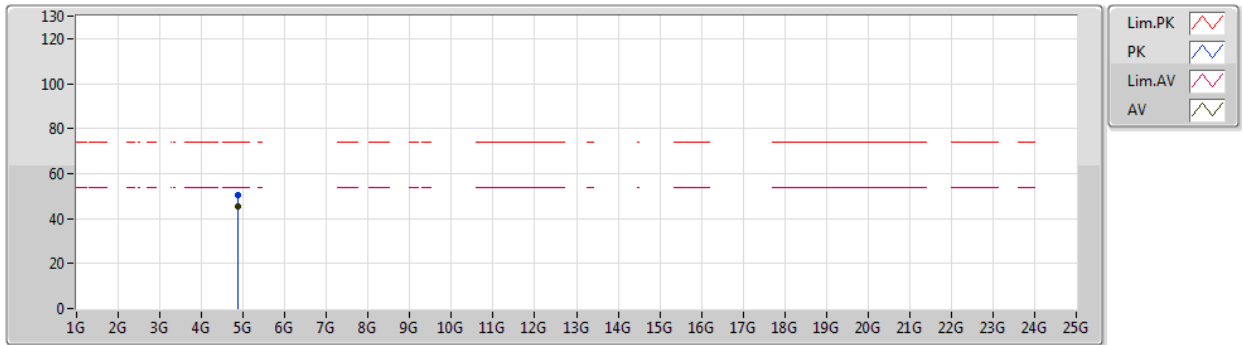


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3846G	45.79	54.00	-8.21	31.39	3	Horizontal	315	1.84	-	14.40	27.73	3.66	-
AV	2.4378G	108.03	Inf	-Inf	31.36	3	Horizontal	315	1.84	-	76.67	27.66	3.70	-
AV	2.4858G	46.71	54.00	-7.29	31.36	3	Horizontal	315	1.84	-	15.35	27.61	3.75	-
PK	2.359G	58.41	74.00	-15.59	31.42	3	Horizontal	315	1.84	-	26.99	27.78	3.64	-
PK	2.4362G	110.49	Inf	-Inf	31.36	3	Horizontal	315	1.84	-	79.13	27.66	3.70	-
PK	2.4934G	58.15	74.00	-15.85	31.36	3	Horizontal	315	1.84	-	26.79	27.61	3.75	-

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2437MHz_TX

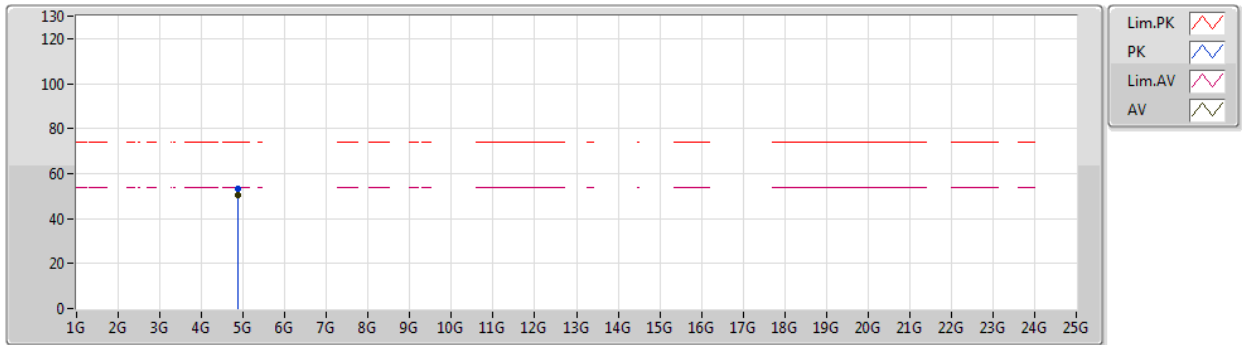


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87392G	45.37	54.00	-8.63	2.12	3	Vertical	354	2.20	-	43.25	31.27	5.36	34.51
PK	4.87389G	50.51	74.00	-23.49	2.12	3	Vertical	354	2.20	-	48.39	31.27	5.36	34.51

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2437MHz_TX

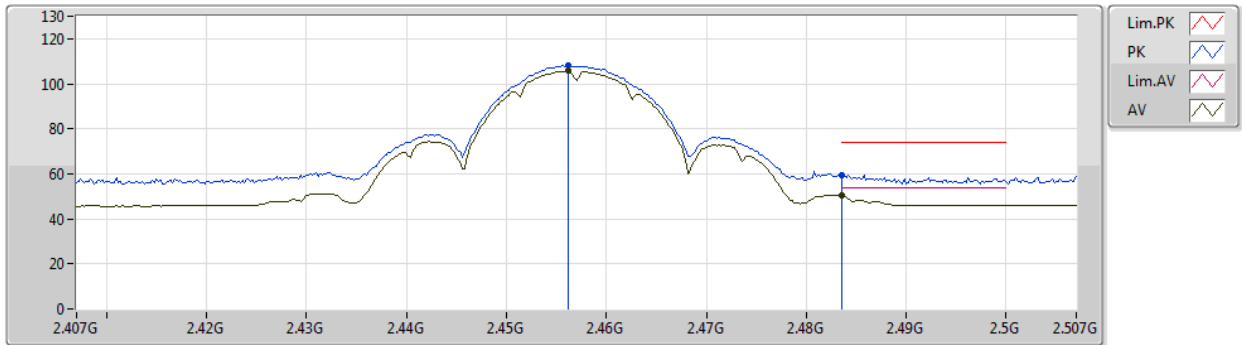


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87393G	50.35	54.00	-3.65	2.12	3	Horizontal	353	2.30	-	48.23	31.27	5.36	34.51
PK	4.87395G	53.42	74.00	-20.58	2.12	3	Horizontal	353	2.30	-	51.30	31.27	5.36	34.51

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2457MHz_TX

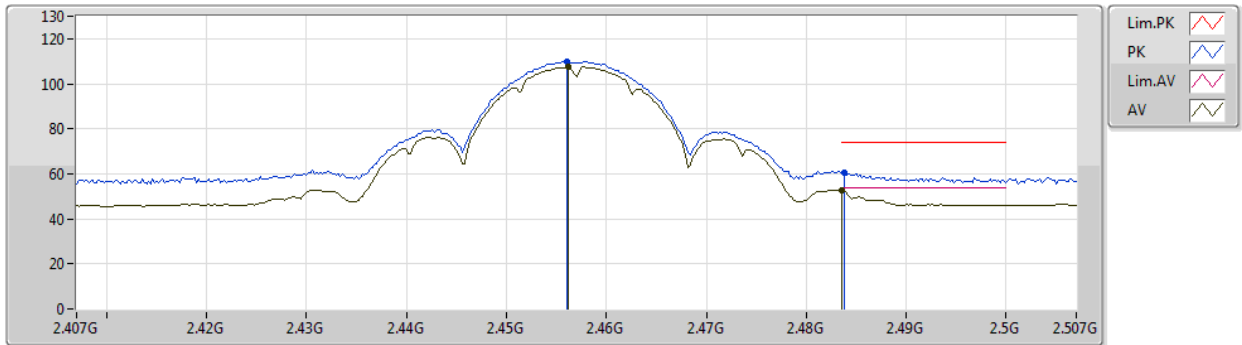


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4562G	105.64	Inf	-Inf	31.36	3	Vertical	312	1.28	-	74.28	27.64	3.72	-
AV	2.4835G	50.42	54.00	-3.58	31.37	3	Vertical	312	1.28	-	19.05	27.62	3.75	-
PK	2.4562G	108.11	Inf	-Inf	31.36	3	Vertical	312	1.28	-	76.75	27.64	3.72	-
PK	2.4836G	59.44	74.00	-14.56	31.37	3	Vertical	312	1.28	-	28.07	27.62	3.75	-

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2457MHz_TX

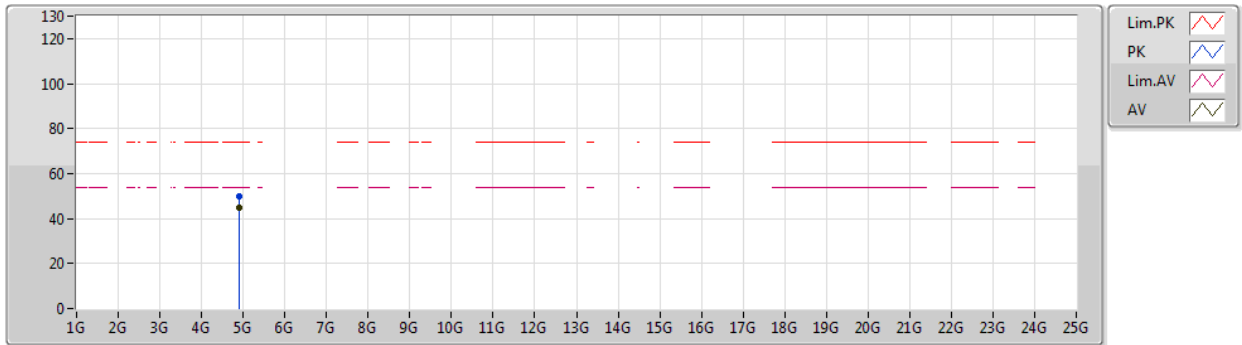


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4562G	107.46	Inf	-Inf	31.36	3	Horizontal	313	2.20	-	76.10	27.64	3.72	-
AV	2.4835G	52.60	54.00	-1.40	31.37	3	Horizontal	313	2.20	-	21.23	27.62	3.75	-
PK	2.456G	109.88	Inf	-Inf	31.36	3	Horizontal	313	2.20	-	78.52	27.64	3.72	-
PK	2.4838G	60.72	74.00	-13.28	31.37	3	Horizontal	313	2.20	-	29.35	27.62	3.75	-

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2457MHz_TX

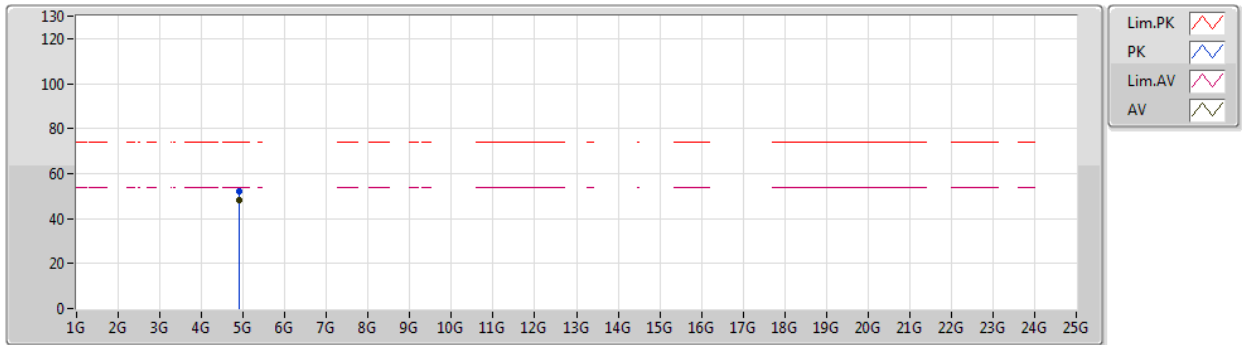


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.91391G	44.90	54.00	-9.10	2.22	3	Vertical	360	1.86	-	42.68	31.33	5.38	34.49
PK	4.91402G	49.80	74.00	-24.20	2.22	3	Vertical	360	1.86	-	47.58	31.33	5.38	34.49

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2457MHz_TX

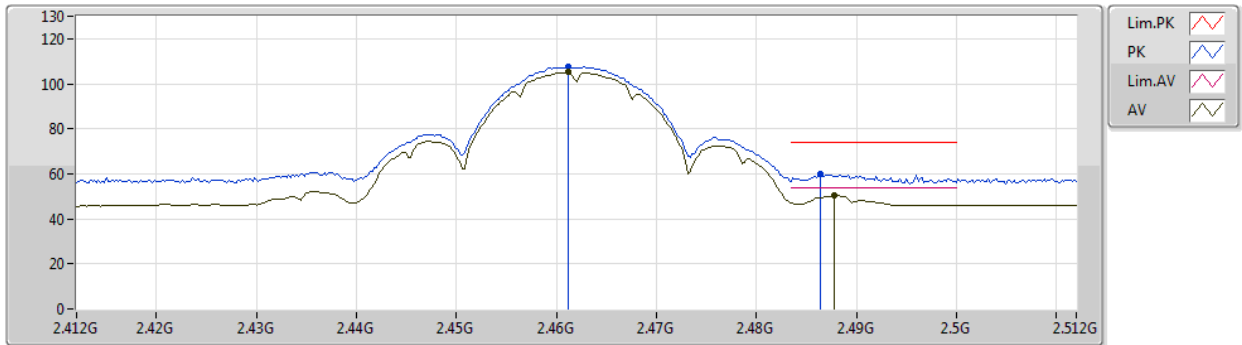


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.91393G	48.43	54.00	-5.57	2.22	3	Horizontal	354	2.27	-	46.21	31.33	5.38	34.49
PK	4.91396G	52.07	74.00	-21.93	2.22	3	Horizontal	354	2.27	-	49.85	31.33	5.38	34.49

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2462MHz_TX

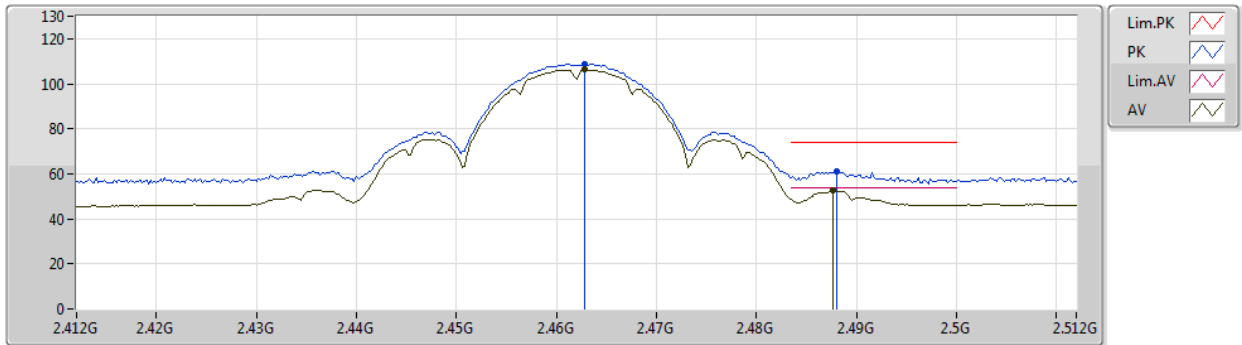


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4612G	105.12	Inf	-Inf	31.37	3	Vertical	322	1.50	-	73.75	27.64	3.73	-
AV	2.4878G	50.41	54.00	-3.59	31.36	3	Vertical	322	1.50	-	19.05	27.61	3.75	-
PK	2.4612G	107.57	Inf	-Inf	31.37	3	Vertical	322	1.50	-	76.20	27.64	3.73	-
PK	2.4864G	59.98	74.00	-14.02	31.36	3	Vertical	322	1.50	-	28.62	27.61	3.75	-

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2462MHz_TX

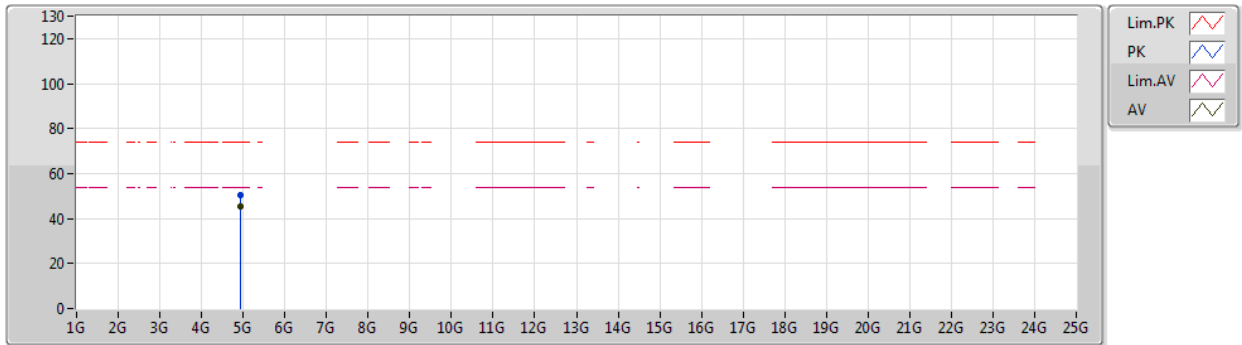


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4628G	106.24	Inf	-Inf	31.37	3	Horizontal	321	1.39	-	74.87	27.64	3.73	-
AV	2.4876G	52.45	54.00	-1.55	31.36	3	Horizontal	321	1.39	-	21.09	27.61	3.75	-
PK	2.4628G	108.74	Inf	-Inf	31.37	3	Horizontal	321	1.39	-	77.37	27.64	3.73	-
PK	2.488G	60.81	74.00	-13.19	31.36	3	Horizontal	321	1.39	-	29.45	27.61	3.75	-

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2462MHz_TX

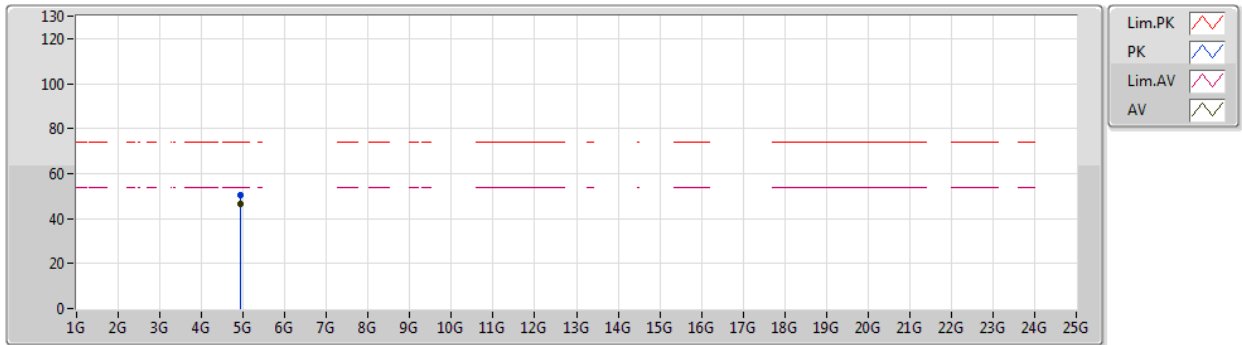


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92393G	45.46	54.00	-8.54	2.24	3	Vertical	352	2.31	-	43.22	31.35	5.38	34.49
PK	4.92397G	50.22	74.00	-23.78	2.24	3	Vertical	352	2.31	-	47.98	31.35	5.38	34.49

802.11b_Nss1,(1Mbps)_1TX

23/01/2020

2462MHz_TX

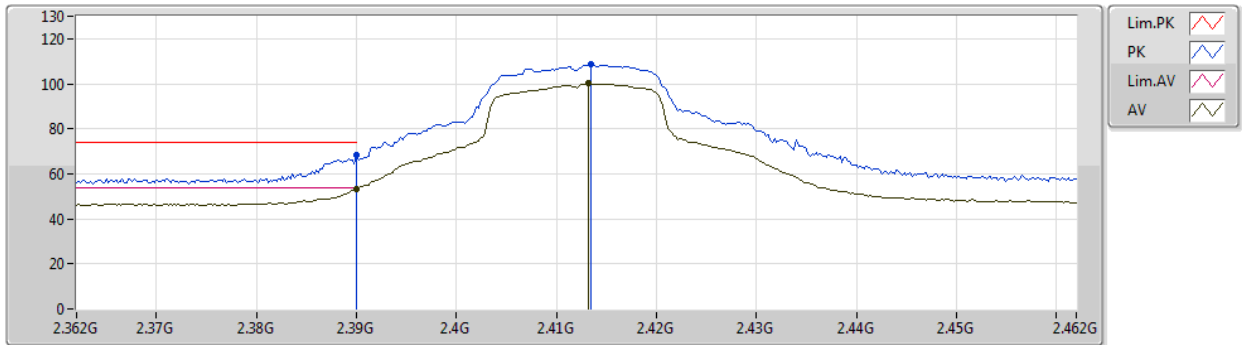


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92395G	46.38	54.00	-7.62	2.24	3	Horizontal	356	2.62	-	44.14	31.35	5.38	34.49
PK	4.92399G	50.49	74.00	-23.51	2.24	3	Horizontal	356	2.62	-	48.25	31.35	5.38	34.49

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2412MHz_TX

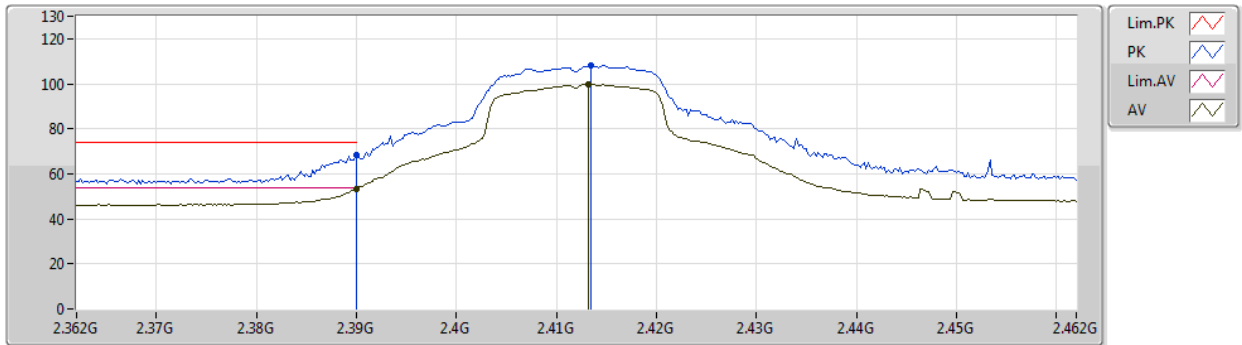


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	53.39	54.00	-0.61	31.38	3	Vertical	322	1.59	-	22.01	27.72	3.66	-
AV	2.4132G	100.12	Inf	-Inf	31.37	3	Vertical	322	1.59	-	68.75	27.69	3.68	-
PK	2.39G	68.46	74.00	-5.54	31.38	3	Vertical	322	1.59	-	37.08	27.72	3.66	-
PK	2.4134G	108.48	Inf	-Inf	31.37	3	Vertical	322	1.59	-	77.11	27.69	3.68	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2412MHz_TX

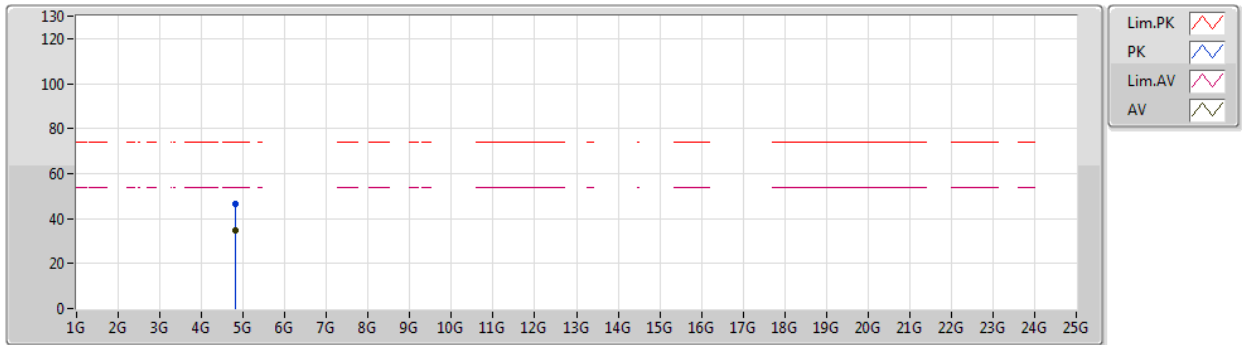


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	53.51	54.00	-0.49	31.38	3	Horizontal	314	2.22	-	22.13	27.72	3.66	-
AV	2.4132G	99.71	Inf	-Inf	31.37	3	Horizontal	314	2.22	-	68.34	27.69	3.68	-
PK	2.39G	68.53	74.00	-5.47	31.38	3	Horizontal	314	2.22	-	37.15	27.72	3.66	-
PK	2.4134G	108.14	Inf	-Inf	31.37	3	Horizontal	314	2.22	-	76.77	27.69	3.68	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2412MHz_TX

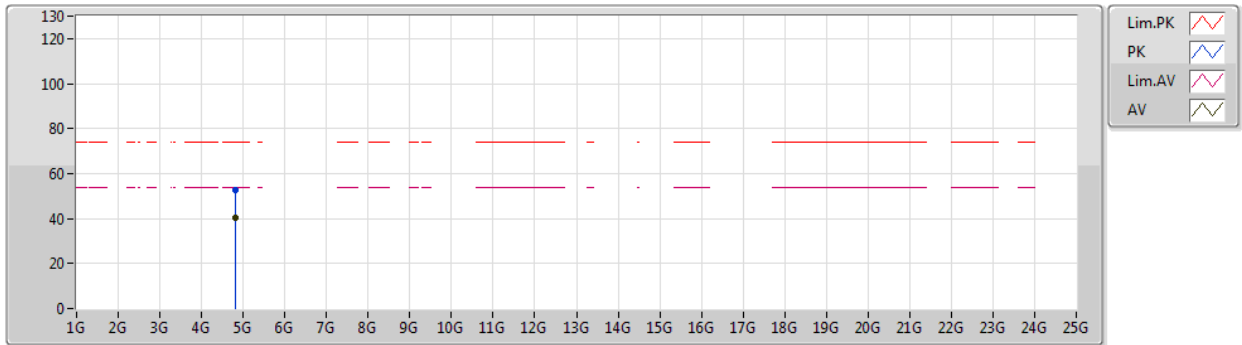


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82568G	34.69	54.00	-19.31	2.03	3	Vertical	0	2.75	-	32.66	31.23	5.33	34.53
PK	4.82568G	46.36	74.00	-27.64	2.03	3	Vertical	0	2.75	-	44.33	31.23	5.33	34.53

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2412MHz_TX

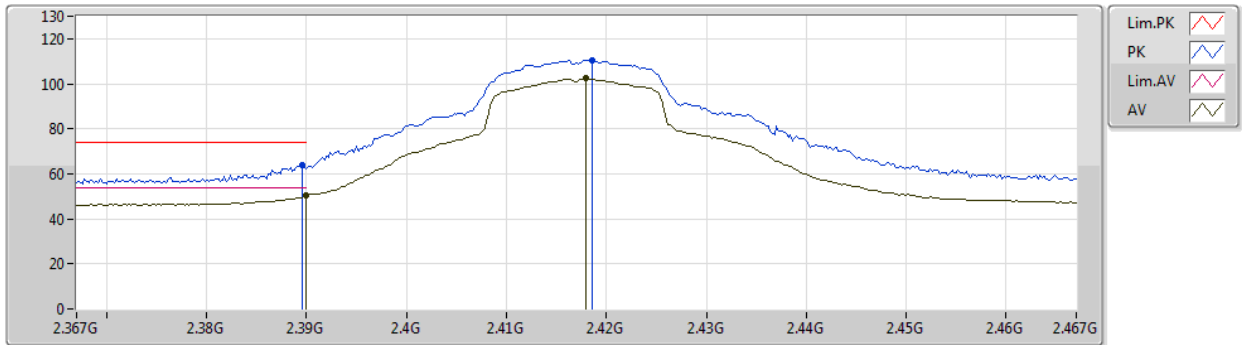


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82612G	40.31	54.00	-13.69	2.03	3	Horizontal	360	2.23	-	38.28	31.23	5.33	34.53
PK	4.82224G	52.46	74.00	-21.54	2.02	3	Horizontal	360	2.23	-	50.44	31.22	5.33	34.53

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2417MHz_TX

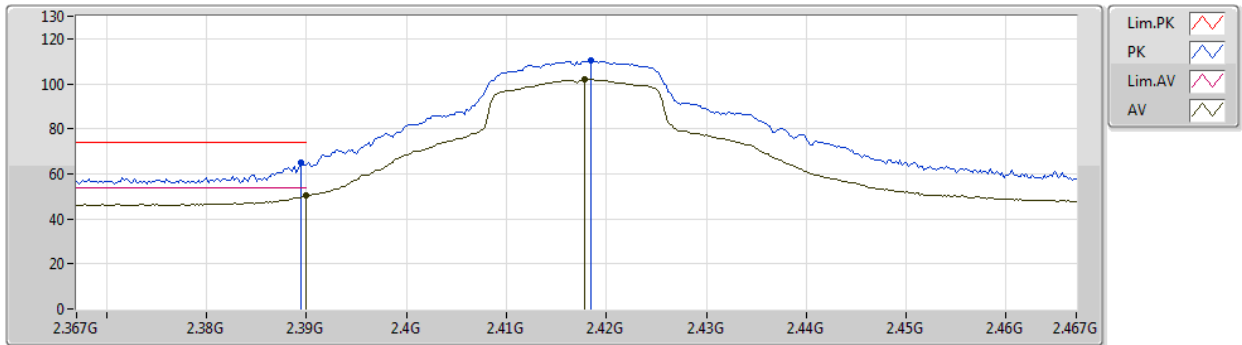


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	50.22	54.00	-3.78	31.38	3	Vertical	328	1.61	-	18.84	27.72	3.66	-
AV	2.418G	102.27	Inf	-Inf	31.37	3	Vertical	328	1.61	-	70.90	27.68	3.69	-
PK	2.3896G	63.63	74.00	-10.37	31.38	3	Vertical	328	1.61	-	32.25	27.72	3.66	-
PK	2.4186G	110.25	Inf	-Inf	31.37	3	Vertical	328	1.61	-	78.88	27.68	3.69	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2417MHz_TX

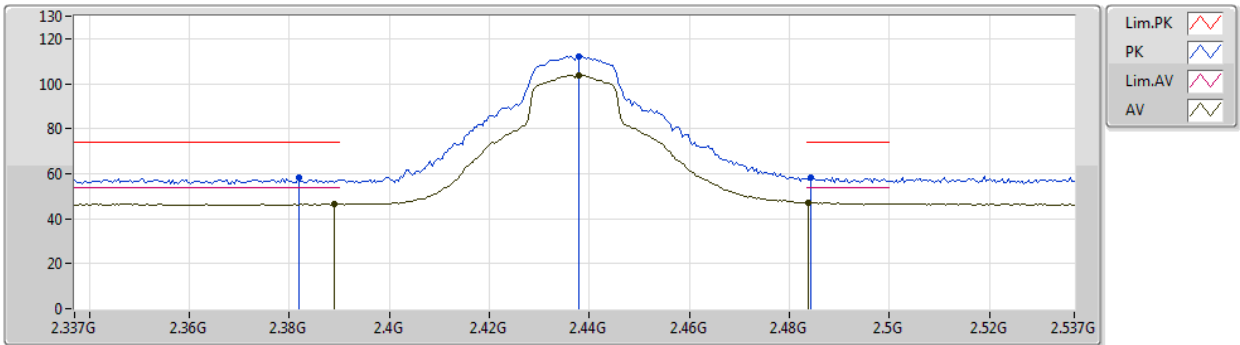


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	50.22	54.00	-3.78	31.38	3	Horizontal	311	2.19	-	18.84	27.72	3.66	-
AV	2.4178G	101.98	Inf	-Inf	31.37	3	Horizontal	311	2.19	-	70.61	27.68	3.69	-
PK	2.3894G	65.15	74.00	-8.85	31.38	3	Horizontal	311	2.19	-	33.77	27.72	3.66	-
PK	2.4184G	110.13	Inf	-Inf	31.37	3	Horizontal	311	2.19	-	78.76	27.68	3.69	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2437MHz_TX

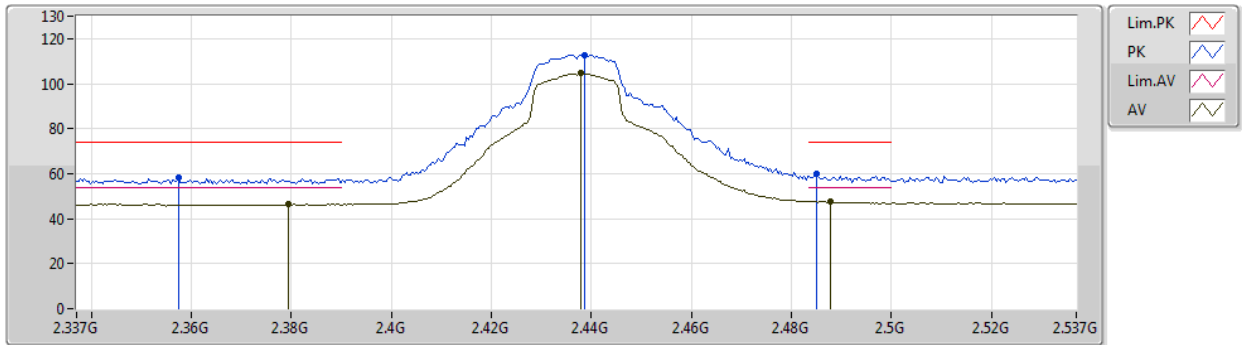


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.389G	46.61	54.00	-7.39	31.38	3	Vertical	336	1.16	-	15.23	27.72	3.66	-
AV	2.4378G	103.91	Inf	-Inf	31.36	3	Vertical	336	1.16	-	72.55	27.66	3.70	-
AV	2.4838G	47.25	54.00	-6.75	31.37	3	Vertical	336	1.16	-	15.88	27.62	3.75	-
PK	2.3818G	58.03	74.00	-15.97	31.40	3	Vertical	336	1.16	-	26.63	27.74	3.66	-
PK	2.4378G	112.06	Inf	-Inf	31.36	3	Vertical	336	1.16	-	80.70	27.66	3.70	-
PK	2.4842G	58.09	74.00	-15.91	31.37	3	Vertical	336	1.16	-	26.72	27.62	3.75	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2437MHz_TX

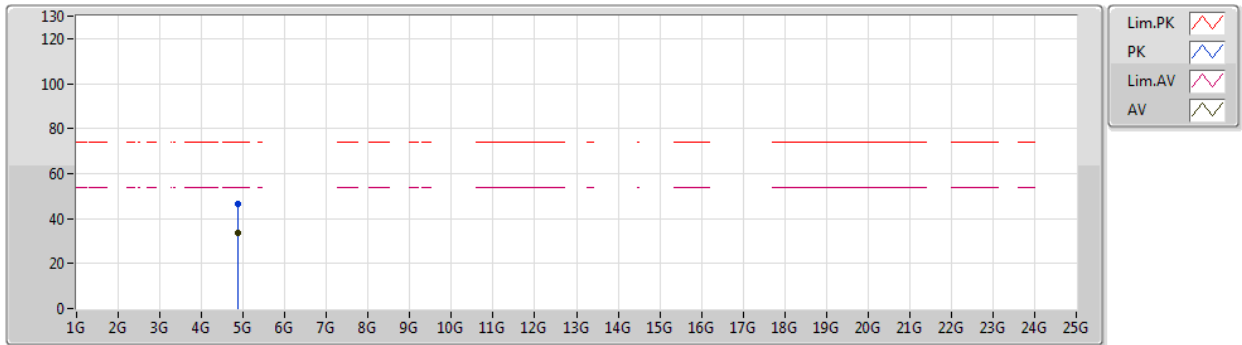


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3794G	46.38	54.00	-7.62	31.40	3	Horizontal	316	1.73	-	14.98	27.74	3.66	-
AV	2.4378G	104.71	Inf	-Inf	31.36	3	Horizontal	316	1.73	-	73.35	27.66	3.70	-
AV	2.4878G	47.73	54.00	-6.27	31.36	3	Horizontal	316	1.73	-	16.37	27.61	3.75	-
PK	2.3574G	58.29	74.00	-15.71	31.43	3	Horizontal	316	1.73	-	26.86	27.79	3.64	-
PK	2.4386G	112.76	Inf	-Inf	31.36	3	Horizontal	316	1.73	-	81.40	27.66	3.70	-
PK	2.485G	59.87	74.00	-14.13	31.37	3	Horizontal	316	1.73	-	28.50	27.62	3.75	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2437MHz_TX

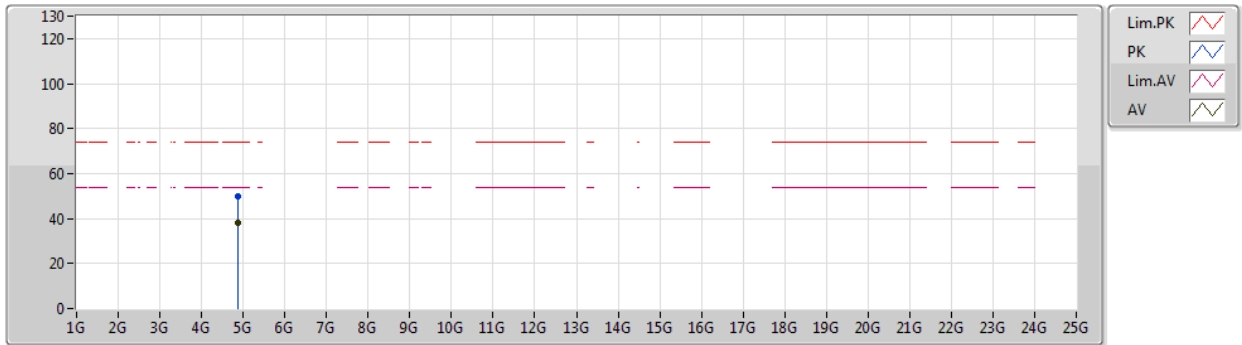


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87584G	33.50	54.00	-20.50	2.13	3	Vertical	360	1.50	-	31.37	31.28	5.36	34.51
PK	4.87256G	46.25	74.00	-27.75	2.12	3	Vertical	360	1.50	-	44.13	31.27	5.36	34.51

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2437MHz_TX

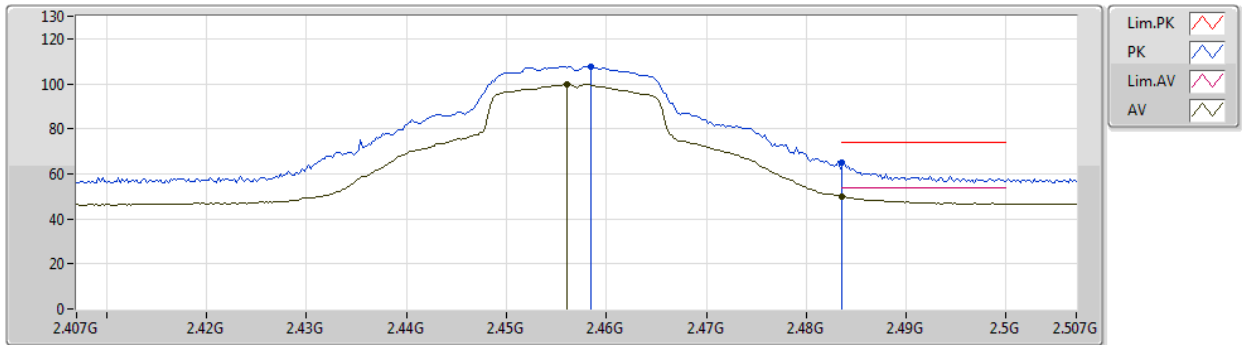


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87196G	38.20	54.00	-15.80	2.12	3	Horizontal	0	2.32	-	36.08	31.27	5.36	34.51
PK	4.87216G	50.05	74.00	-23.95	2.12	3	Horizontal	0	2.32	-	47.93	31.27	5.36	34.51

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2457MHz_TX

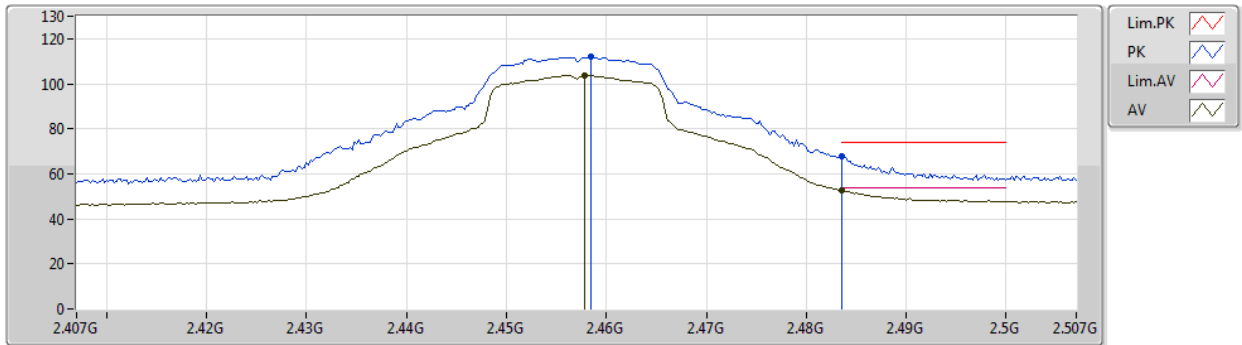


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.456G	99.61	Inf	-Inf	31.36	3	Vertical	315	2.16	-	68.25	27.64	3.72	-
AV	2.4835G	49.87	54.00	-4.13	31.37	3	Vertical	315	2.16	-	18.50	27.62	3.75	-
PK	2.4584G	107.70	Inf	-Inf	31.36	3	Vertical	315	2.16	-	76.34	27.64	3.72	-
PK	2.4836G	64.81	74.00	-9.19	31.37	3	Vertical	315	2.16	-	33.44	27.62	3.75	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

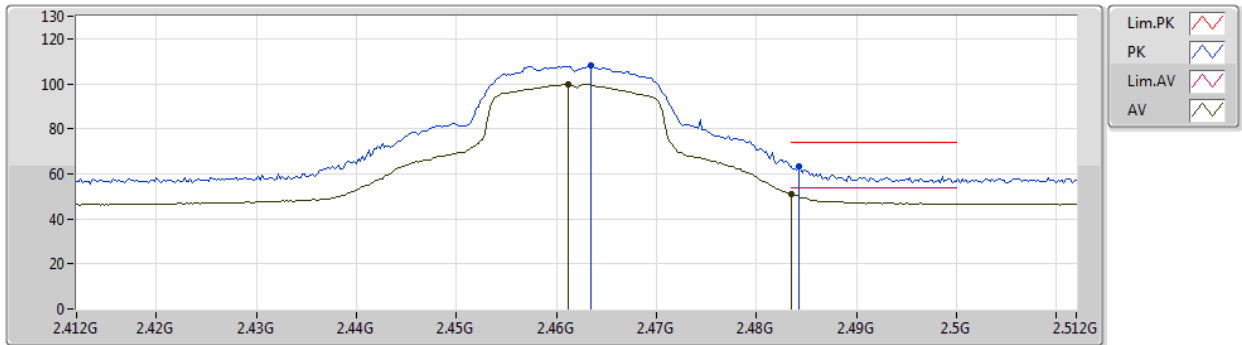
2457MHz_TX



802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2462MHz_TX

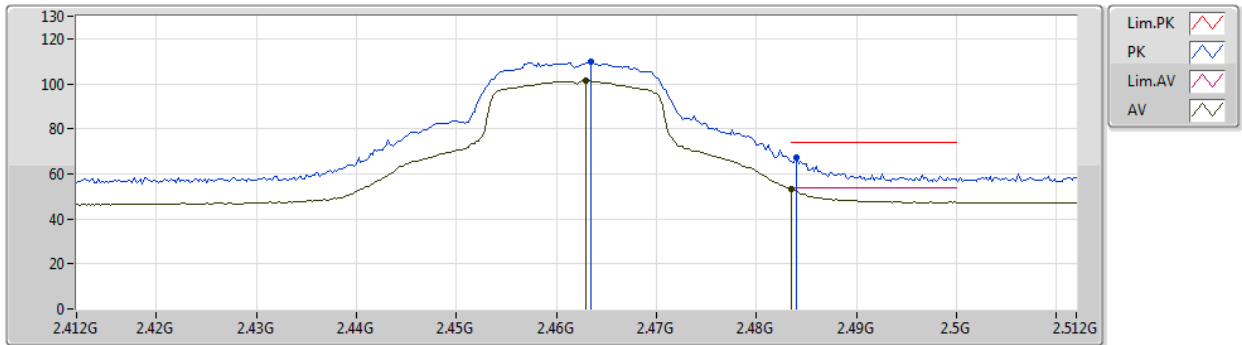


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4612G	99.66	Inf	-Inf	31.37	3	Vertical	350	2.52	-	68.29	27.64	3.73	-
AV	2.4835G	51.10	54.00	-2.90	31.37	3	Vertical	350	2.52	-	19.73	27.62	3.75	-
PK	2.4634G	107.95	Inf	-Inf	31.37	3	Vertical	350	2.52	-	76.58	27.64	3.73	-
PK	2.4842G	63.35	74.00	-10.65	31.37	3	Vertical	350	2.52	-	31.98	27.62	3.75	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2462MHz_TX

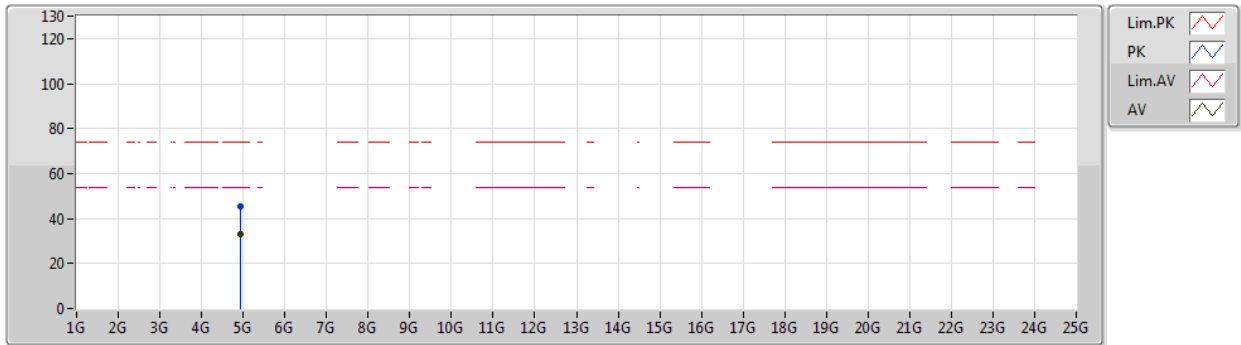


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.463G	101.26	Inf	-Inf	31.37	3	Horizontal	327	2.16	-	69.89	27.64	3.73	-
AV	2.4835G	53.27	54.00	-0.73	31.37	3	Horizontal	327	2.16	-	21.90	27.62	3.75	-
PK	2.4634G	109.65	Inf	-Inf	31.37	3	Horizontal	327	2.16	-	78.28	27.64	3.73	-
PK	2.484G	67.36	74.00	-6.64	31.37	3	Horizontal	327	2.16	-	35.99	27.62	3.75	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2462MHz_TX

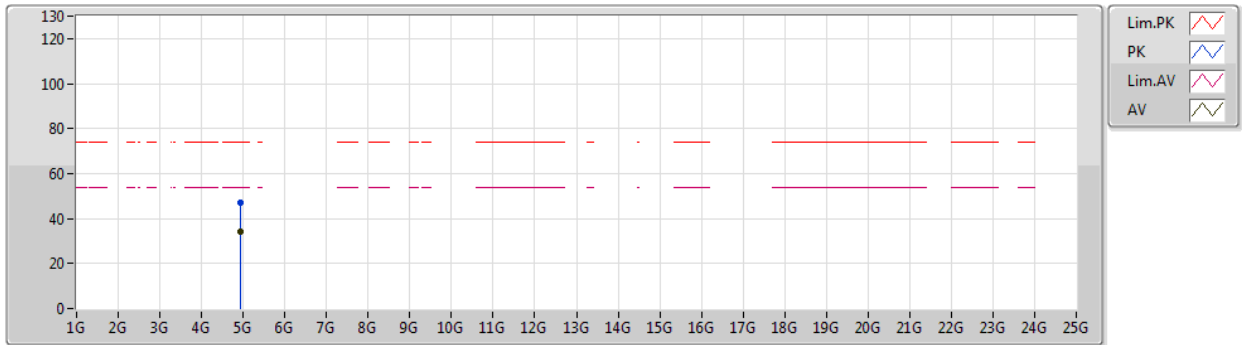


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92292G	33.31	54.00	-20.69	2.24	3	Vertical	351	2.95	-	31.07	31.35	5.38	34.49
PK	4.92008G	45.33	74.00	-28.67	2.23	3	Vertical	351	2.95	-	43.10	31.34	5.38	34.49

802.11g_Nss1,(6Mbps)_1TX

24/01/2020

2462MHz_TX

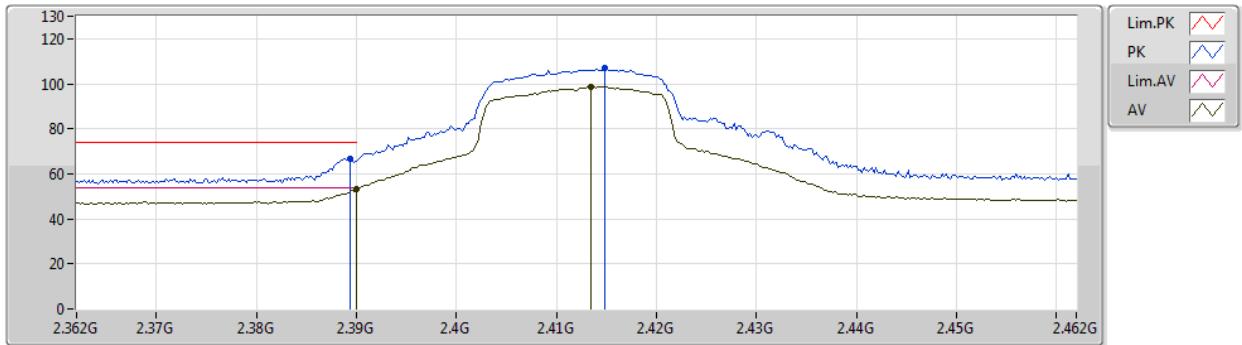


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92528G	34.33	54.00	-19.67	2.24	3	Horizontal	357	2.27	-	32.09	31.35	5.38	34.49
PK	4.9194G	47.05	74.00	-26.95	2.23	3	Horizontal	357	2.27	-	44.82	31.34	5.38	34.49

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

2412MHz_TX

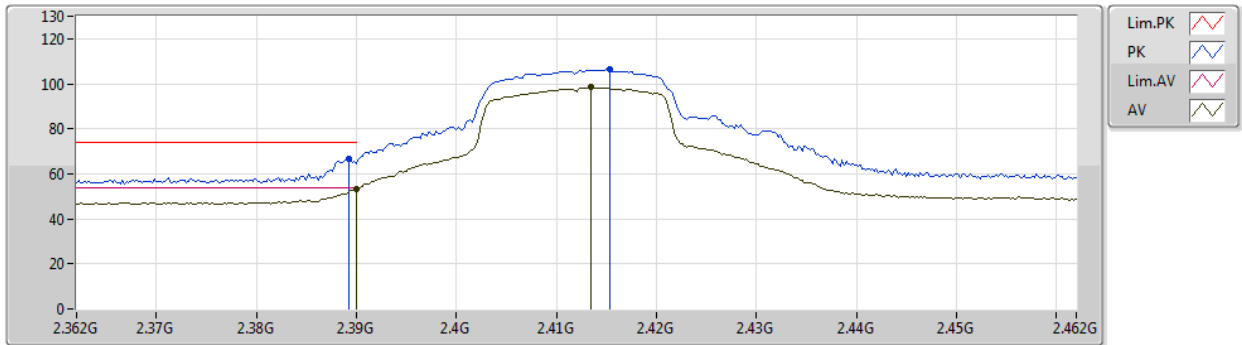


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	53.27	54.00	-0.73	31.38	3	Vertical	325	1.60	-	21.89	27.72	3.66	-
AV	2.4134G	98.64	Inf	-Inf	31.37	3	Vertical	325	1.60	-	67.27	27.69	3.68	-
PK	2.3894G	66.89	74.00	-7.11	31.38	3	Vertical	325	1.60	-	35.51	27.72	3.66	-
PK	2.4148G	106.84	Inf	-Inf	31.37	3	Vertical	325	1.60	-	75.47	27.69	3.68	-

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

2412MHz_TX

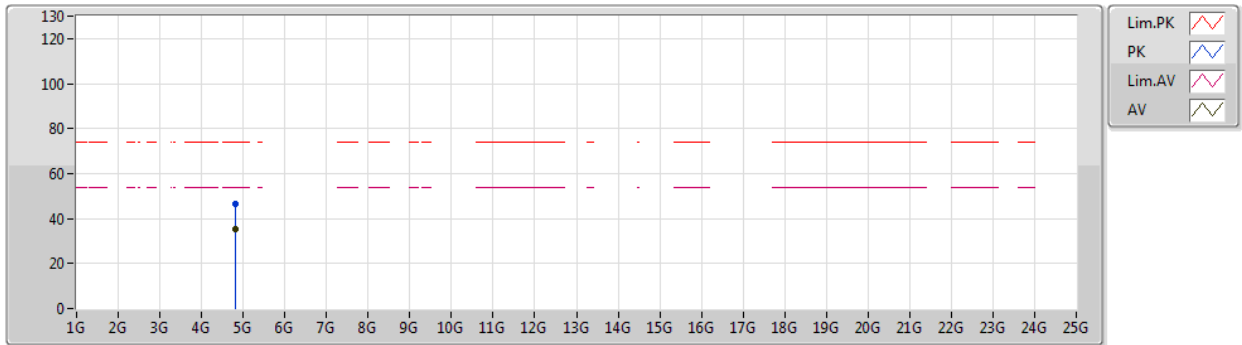


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	53.39	54.00	-0.61	31.38	3	Horizontal	314	2.21	-	22.01	27.72	3.66	-
AV	2.4134G	98.35	Inf	-Inf	31.37	3	Horizontal	314	2.21	-	66.98	27.69	3.68	-
PK	2.3892G	66.60	74.00	-7.40	31.38	3	Horizontal	314	2.21	-	35.22	27.72	3.66	-
PK	2.4154G	106.33	Inf	-Inf	31.36	3	Horizontal	314	2.21	-	74.97	27.68	3.68	-

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

2412MHz_TX

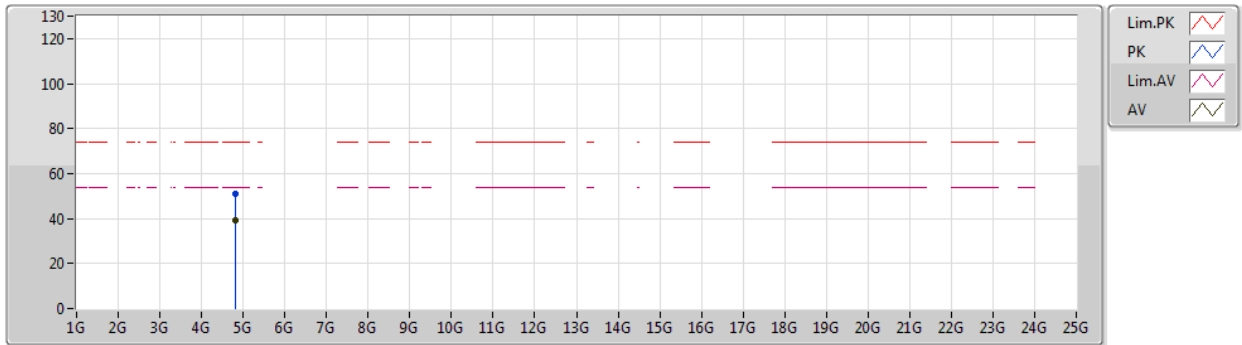


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8238G	35.17	54.00	-18.83	2.02	3	Vertical	349	3.00	-	33.15	31.22	5.33	34.53
PK	4.82424G	46.64	74.00	-27.36	2.02	3	Vertical	349	3.00	-	44.62	31.22	5.33	34.53

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

2412MHz_TX

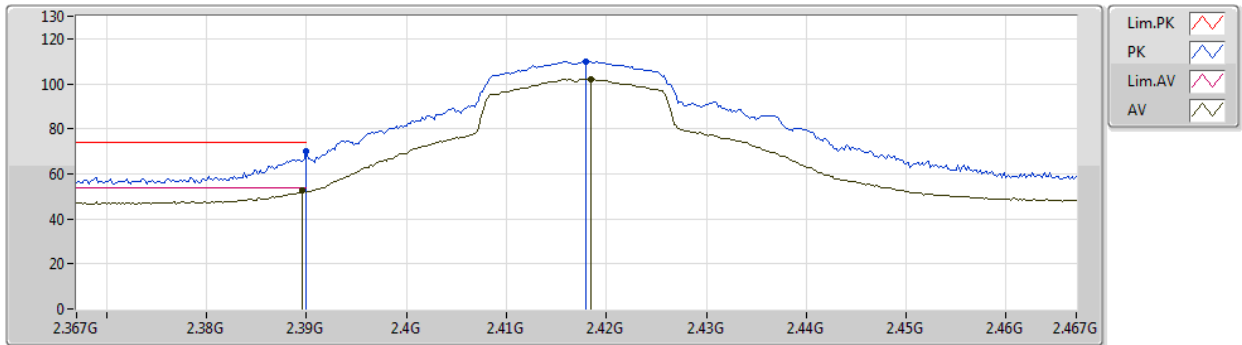


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8222G	39.40	54.00	-14.60	2.02	3	Horizontal	360	2.22	-	37.38	31.22	5.33	34.53
PK	4.82464G	50.92	74.00	-23.08	2.02	3	Horizontal	360	2.22	-	48.90	31.22	5.33	34.53

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

2417MHz_TX

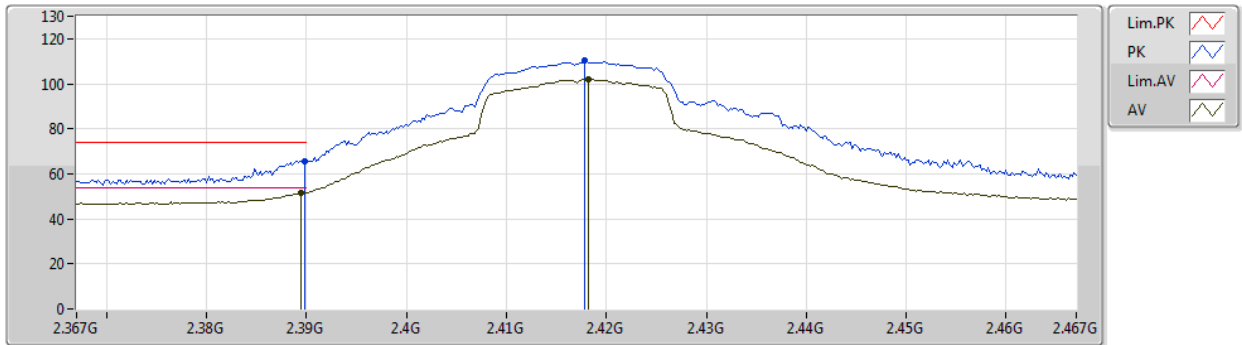


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3896G	52.63	54.00	-1.37	31.38	3	Vertical	329	1.63	-	21.25	27.72	3.66	-
AV	2.4184G	102.19	Inf	-Inf	31.37	3	Vertical	329	1.63	-	70.82	27.68	3.69	-
PK	2.39G	69.83	74.00	-4.17	31.38	3	Vertical	329	1.63	-	38.45	27.72	3.66	-
PK	2.418G	109.90	Inf	-Inf	31.37	3	Vertical	329	1.63	-	78.53	27.68	3.69	-

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

2417MHz_TX

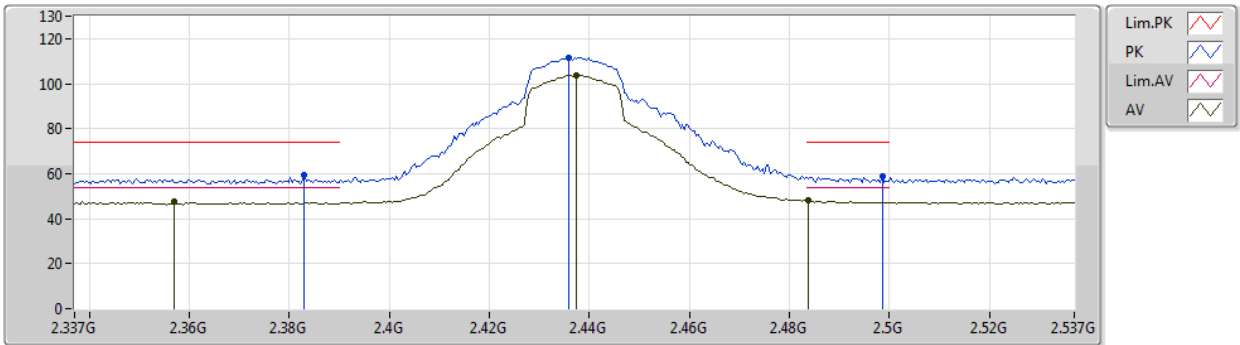


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	51.81	54.00	-2.19	31.38	3	Horizontal	314	2.19	-	20.43	27.72	3.66	-
AV	2.4182G	101.91	Inf	-Inf	31.37	3	Horizontal	314	2.19	-	70.54	27.68	3.69	-
PK	2.3898G	65.66	74.00	-8.34	31.38	3	Horizontal	314	2.19	-	34.28	27.72	3.66	-
PK	2.4178G	110.19	Inf	-Inf	31.37	3	Horizontal	314	2.19	-	78.82	27.68	3.69	-

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

2437MHz_TX

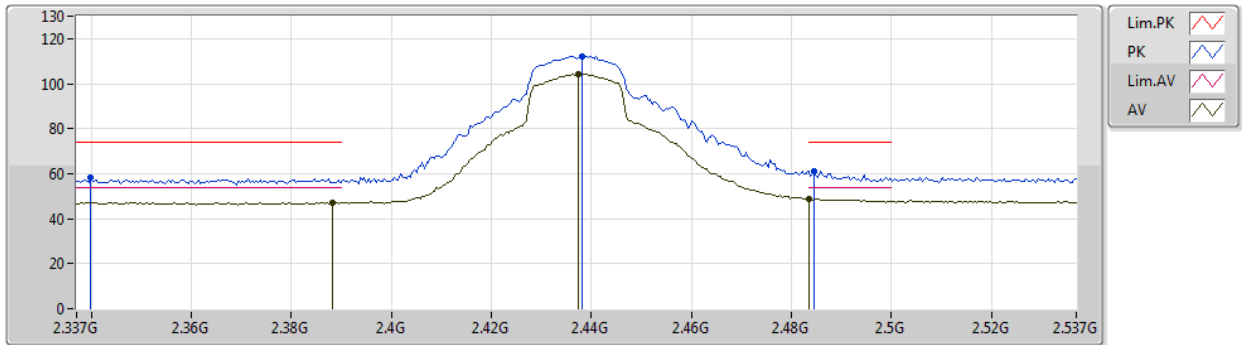


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.357G	47.51	54.00	-6.49	31.43	3	Vertical	338	1.16	-	16.08	27.79	3.64	-
AV	2.4374G	103.56	Inf	-Inf	31.36	3	Vertical	338	1.16	-	72.20	27.66	3.70	-
AV	2.4838G	47.98	54.00	-6.02	31.37	3	Vertical	338	1.16	-	16.61	27.62	3.75	-
PK	2.383G	59.45	74.00	-14.55	31.39	3	Vertical	338	1.16	-	28.06	27.73	3.66	-
PK	2.4358G	111.59	Inf	-Inf	31.36	3	Vertical	338	1.16	-	80.23	27.66	3.70	-
PK	2.4986G	58.85	74.00	-15.15	31.36	3	Vertical	338	1.16	-	27.49	27.60	3.76	-

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

2437MHz_TX

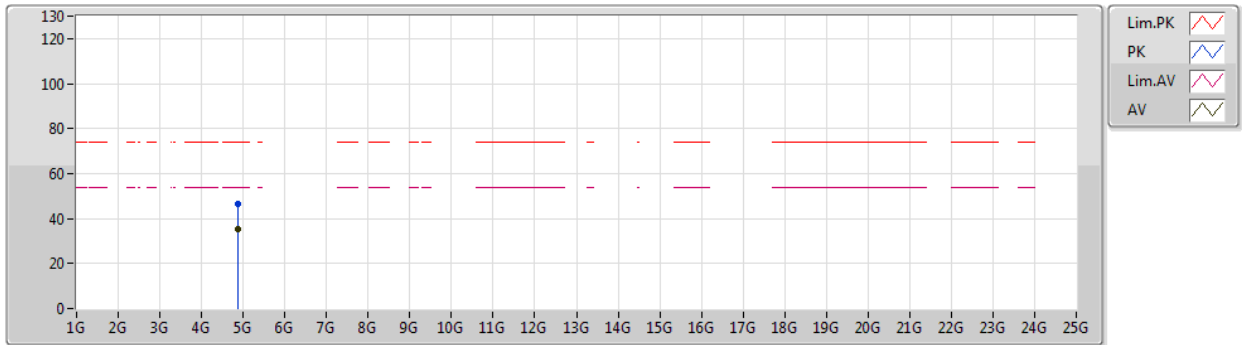


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3882G	47.12	54.00	-6.88	31.38	3	Horizontal	315	1.71	-	15.74	27.72	3.66	-
AV	2.4374G	104.37	Inf	-Inf	31.36	3	Horizontal	315	1.71	-	73.01	27.66	3.70	-
AV	2.4835G	48.87	54.00	-5.13	31.37	3	Horizontal	315	1.71	-	17.50	27.62	3.75	-
PK	2.3398G	58.38	74.00	-15.62	31.45	3	Horizontal	315	1.71	-	26.93	27.82	3.63	-
PK	2.4382G	112.21	Inf	-Inf	31.36	3	Horizontal	315	1.71	-	80.85	27.66	3.70	-
PK	2.4846G	61.14	74.00	-12.86	31.37	3	Horizontal	315	1.71	-	29.77	27.62	3.75	-

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

2437MHz_TX

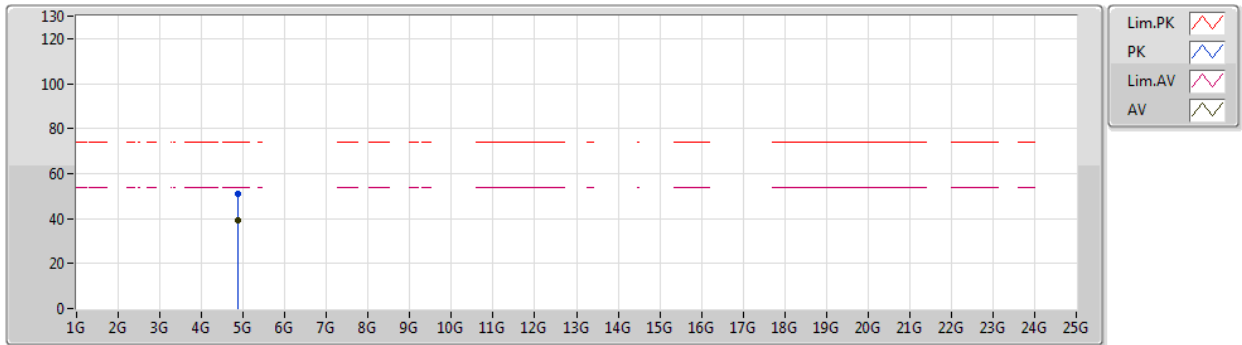


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87488G	35.42	54.00	-18.58	2.12	3	Vertical	360	2.08	-	33.30	31.27	5.36	34.51
PK	4.8758G	46.24	74.00	-27.76	2.13	3	Vertical	360	2.08	-	44.11	31.28	5.36	34.51

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

2437MHz_TX

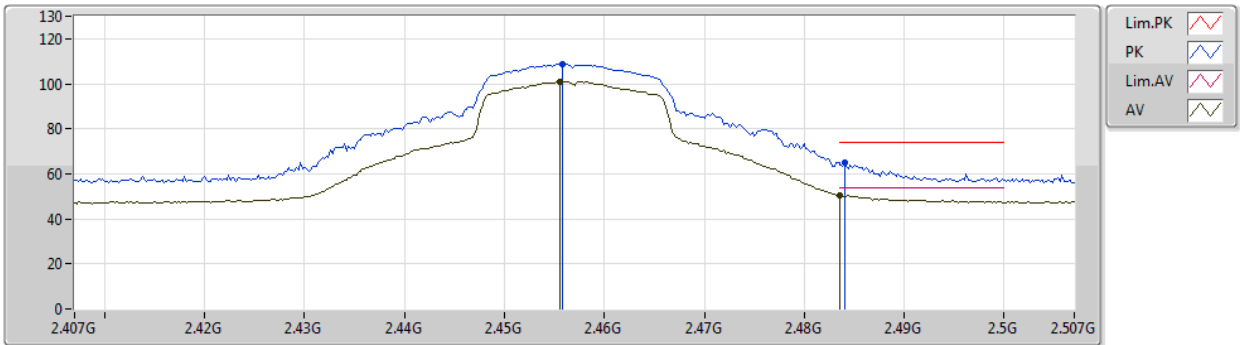


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87464G	39.19	54.00	-14.81	2.12	3	Horizontal	360	2.34	-	37.07	31.27	5.36	34.51
PK	4.87452G	50.72	74.00	-23.28	2.12	3	Horizontal	360	2.34	-	48.60	31.27	5.36	34.51

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

2457MHz_TX

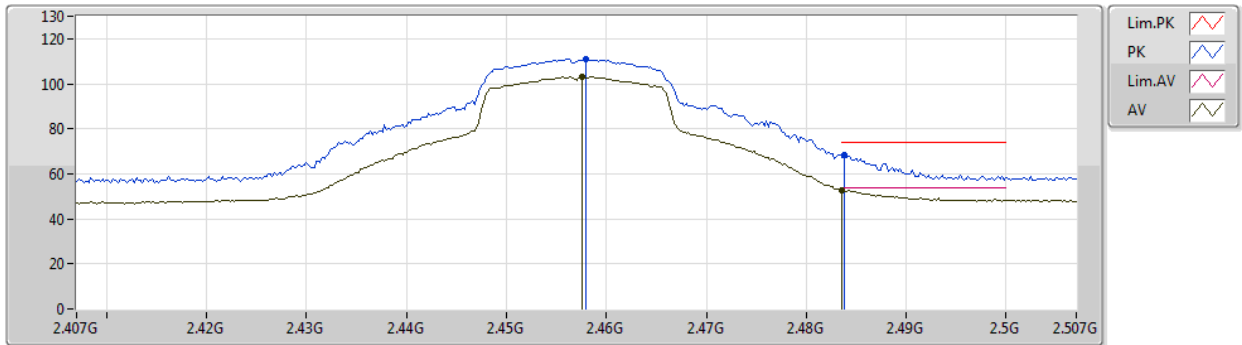


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4556G	101.07	Inf	-Inf	31.36	3	Vertical	315	1.28	-	69.71	27.64	3.72	-
AV	2.4836G	50.60	54.00	-3.40	31.37	3	Vertical	315	1.28	-	19.23	27.62	3.75	-
PK	2.4558G	108.85	Inf	-Inf	31.36	3	Vertical	315	1.28	-	77.49	27.64	3.72	-
PK	2.484G	65.01	74.00	-8.99	31.37	3	Vertical	315	1.28	-	33.64	27.62	3.75	-

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

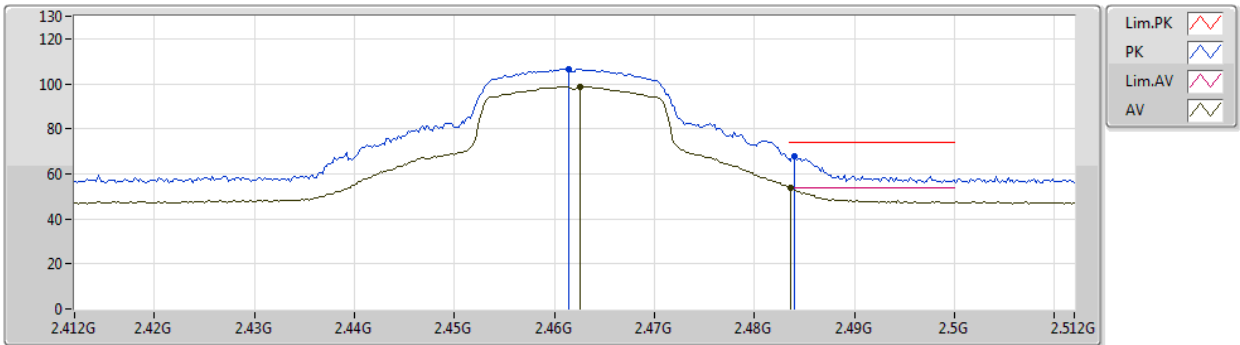
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802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

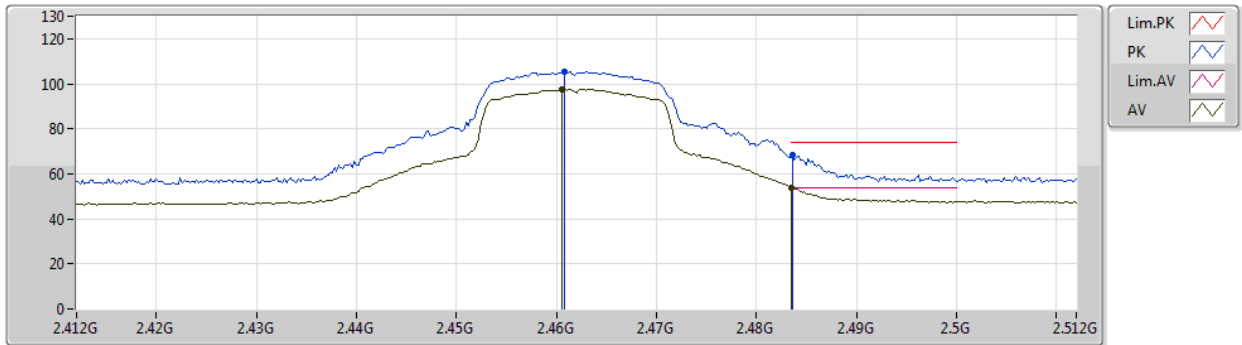
2462MHz_TX



802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

2462MHz_TX

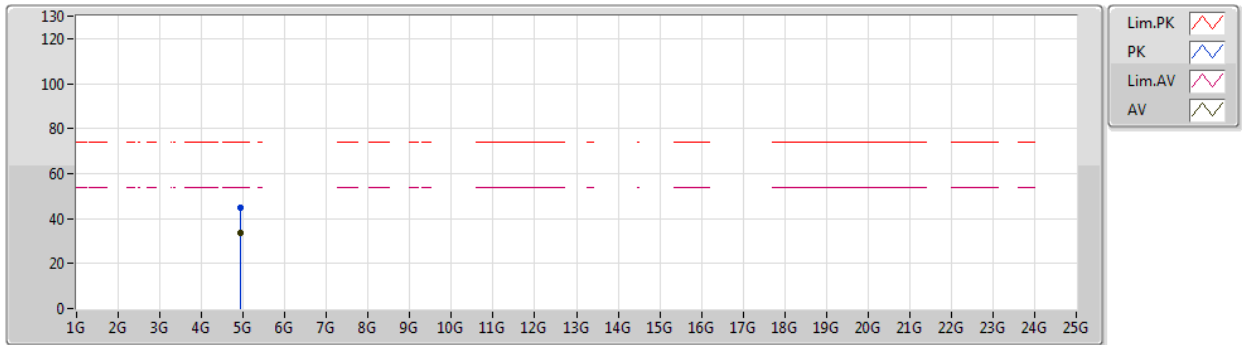


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4606G	97.51	Inf	-Inf	31.36	3	Horizontal	349	2.14	-	66.15	27.64	3.72	-
AV	2.4835G	53.76	54.00	-0.24	31.37	3	Horizontal	349	2.14	-	22.39	27.62	3.75	-
PK	2.4608G	105.18	Inf	-Inf	31.36	3	Horizontal	349	2.14	-	73.82	27.64	3.72	-
PK	2.4836G	68.15	74.00	-5.85	31.37	3	Horizontal	349	2.14	-	36.78	27.62	3.75	-

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

2462MHz_TX

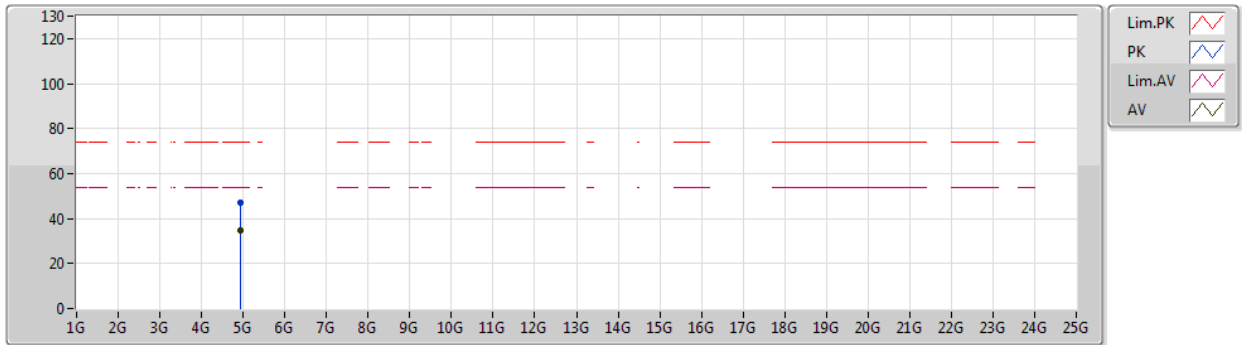


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9264G	33.90	54.00	-20.10	2.24	3	Vertical	357	2.01	-	31.66	31.35	5.38	34.49
PK	4.92512G	45.08	74.00	-28.92	2.24	3	Vertical	357	2.01	-	42.84	31.35	5.38	34.49

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2020

2462MHz_TX

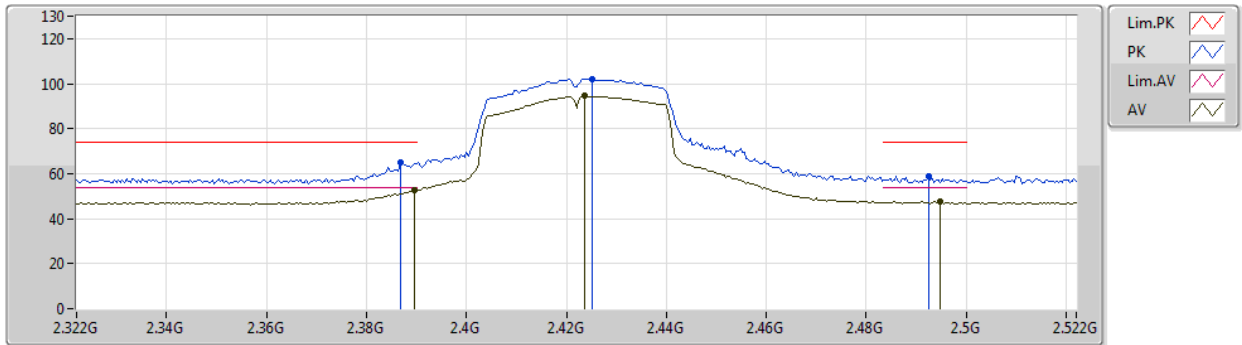


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92196G	34.98	54.00	-19.02	2.23	3	Horizontal	359	2.14	-	32.75	31.34	5.38	34.49
PK	4.927G	47.01	74.00	-26.99	2.24	3	Horizontal	359	2.14	-	44.77	31.35	5.38	34.49

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2422MHz_TX

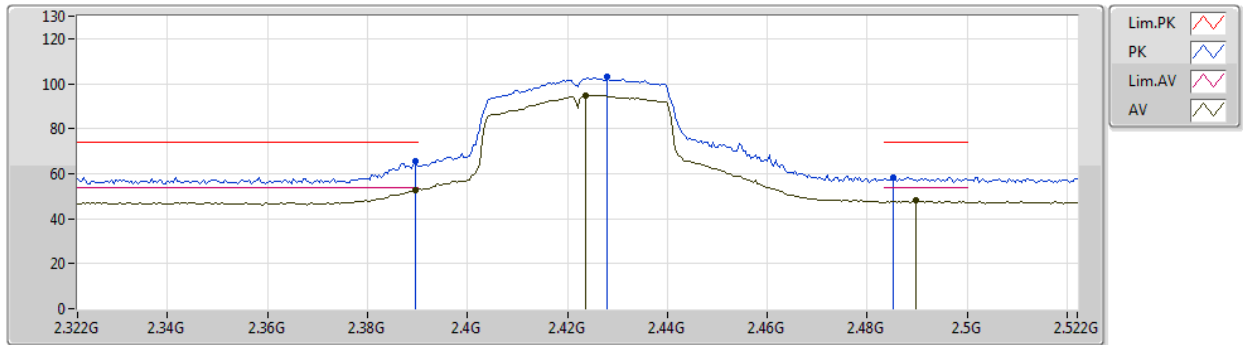


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3896G	52.89	54.00	-1.11	31.38	3	Vertical	322	1.84	-	21.51	27.72	3.66	-
AV	2.4236G	94.76	Inf	-Inf	31.37	3	Vertical	322	1.84	-	63.39	27.68	3.69	-
AV	2.4948G	47.50	54.00	-6.50	31.37	3	Vertical	322	1.84	-	16.13	27.61	3.76	-
PK	2.3868G	64.78	74.00	-9.22	31.39	3	Vertical	322	1.84	-	33.39	27.73	3.66	-
PK	2.4252G	102.22	Inf	-Inf	31.36	3	Vertical	322	1.84	-	70.86	27.67	3.69	-
PK	2.4924G	58.91	74.00	-15.09	31.36	3	Vertical	322	1.84	-	27.55	27.61	3.75	-

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2422MHz_TX

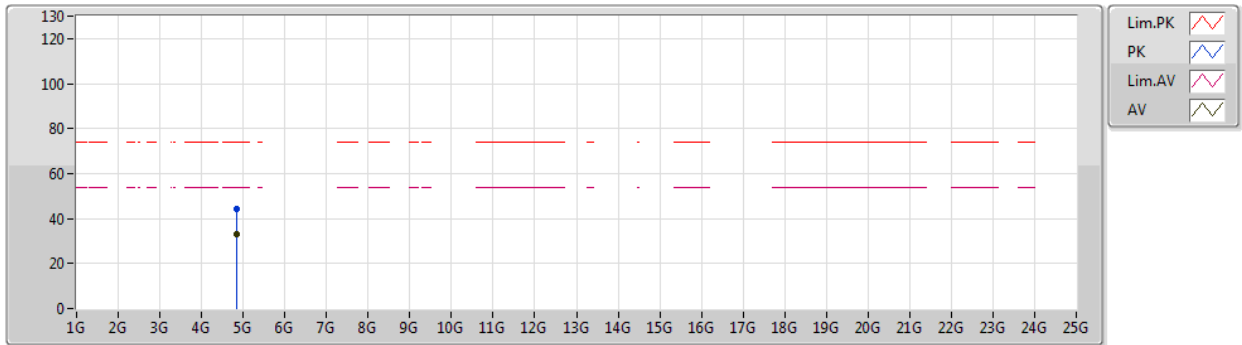


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3896G	52.63	54.00	-1.37	31.38	3	Horizontal	319	2.46	-	21.25	27.72	3.66	-
AV	2.4236G	94.95	Inf	-Inf	31.37	3	Horizontal	319	2.46	-	63.58	27.68	3.69	-
AV	2.4896G	47.97	54.00	-6.03	31.36	3	Horizontal	319	2.46	-	16.61	27.61	3.75	-
PK	2.3896G	65.39	74.00	-8.61	31.38	3	Horizontal	319	2.46	-	34.01	27.72	3.66	-
PK	2.428G	102.98	Inf	-Inf	31.37	3	Horizontal	319	2.46	-	71.61	27.67	3.70	-
PK	2.4852G	58.23	74.00	-15.77	31.36	3	Horizontal	319	2.46	-	26.87	27.61	3.75	-

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2422MHz_TX

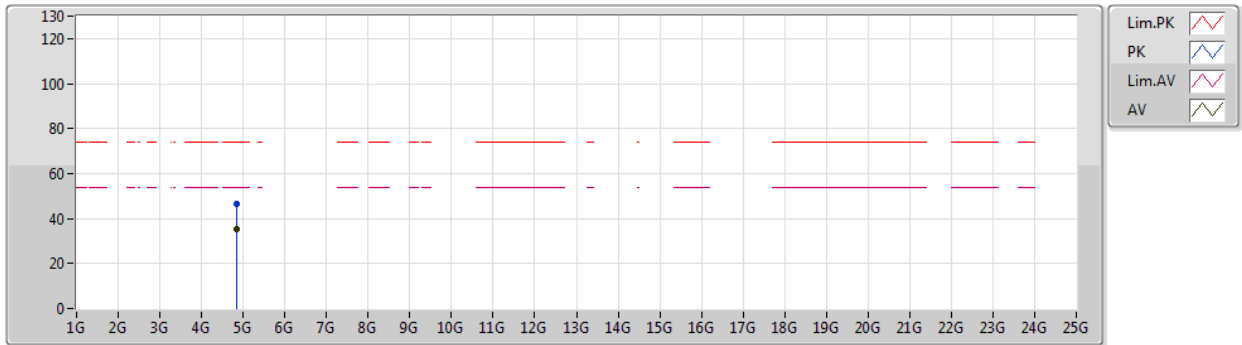


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8502G	33.15	54.00	-20.85	2.08	3	Vertical	360	1.88	-	31.07	31.25	5.35	34.52
PK	4.84284G	44.42	74.00	-29.58	2.06	3	Vertical	360	1.88	-	42.36	31.24	5.34	34.52

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2422MHz_TX

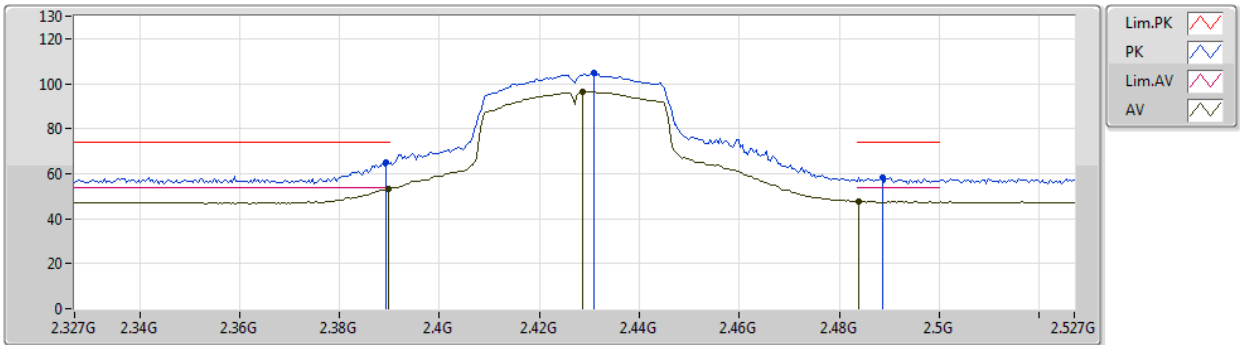


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.84356G	35.48	54.00	-18.52	2.06	3	Horizontal	0	2.37	-	33.42	31.24	5.34	34.52
PK	4.84472G	46.76	74.00	-27.24	2.06	3	Horizontal	0	2.37	-	44.70	31.24	5.34	34.52

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2427MHz_TX

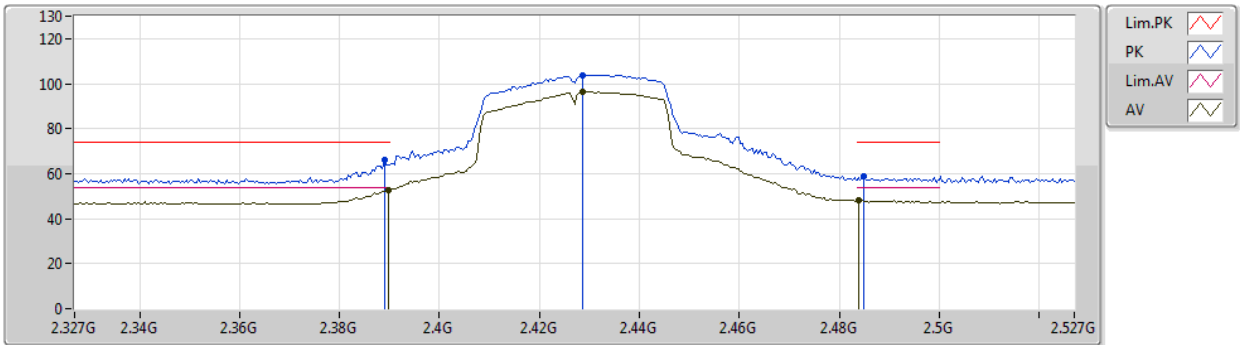


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	53.39	54.00	-0.61	31.38	3	Vertical	325	1.85	-	22.01	27.72	3.66	-
AV	2.4286G	96.63	Inf	-Inf	31.37	3	Vertical	325	1.85	-	65.26	27.67	3.70	-
AV	2.4838G	47.74	54.00	-6.26	31.37	3	Vertical	325	1.85	-	16.37	27.62	3.75	-
PK	2.3894G	64.74	74.00	-9.26	31.38	3	Vertical	325	1.85	-	33.36	27.72	3.66	-
PK	2.431G	104.53	Inf	-Inf	31.37	3	Vertical	325	1.85	-	73.16	27.67	3.70	-
PK	2.4886G	58.15	74.00	-15.85	31.36	3	Vertical	325	1.85	-	26.79	27.61	3.75	-

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2427MHz_TX

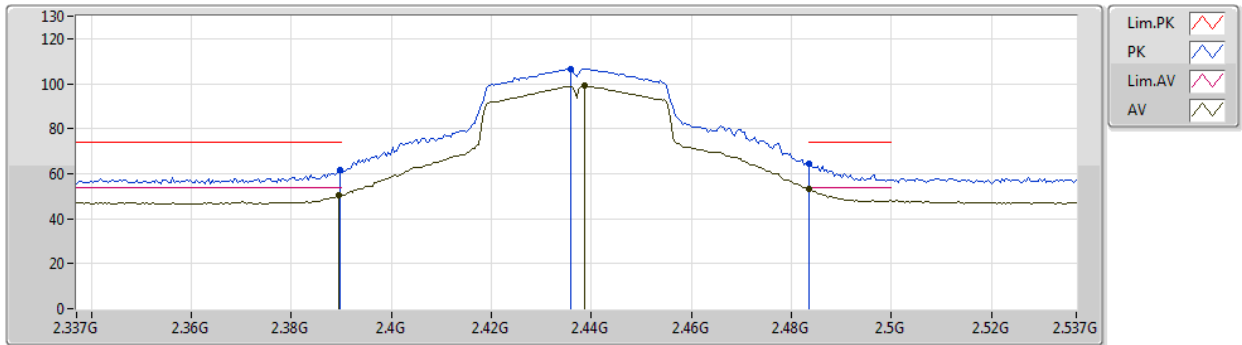


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	52.63	54.00	-1.37	31.38	3	Horizontal	317	1.74	-	21.25	27.72	3.66	-
AV	2.4286G	96.56	Inf	-Inf	31.37	3	Horizontal	317	1.74	-	65.19	27.67	3.70	-
AV	2.4838G	47.98	54.00	-6.02	31.37	3	Horizontal	317	1.74	-	16.61	27.62	3.75	-
PK	2.389G	65.95	74.00	-8.05	31.38	3	Horizontal	317	1.74	-	34.57	27.72	3.66	-
PK	2.4286G	103.84	Inf	-Inf	31.37	3	Horizontal	317	1.74	-	72.47	27.67	3.70	-
PK	2.485G	58.59	74.00	-15.41	31.37	3	Horizontal	317	1.74	-	27.22	27.62	3.75	-

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2437MHz_TX

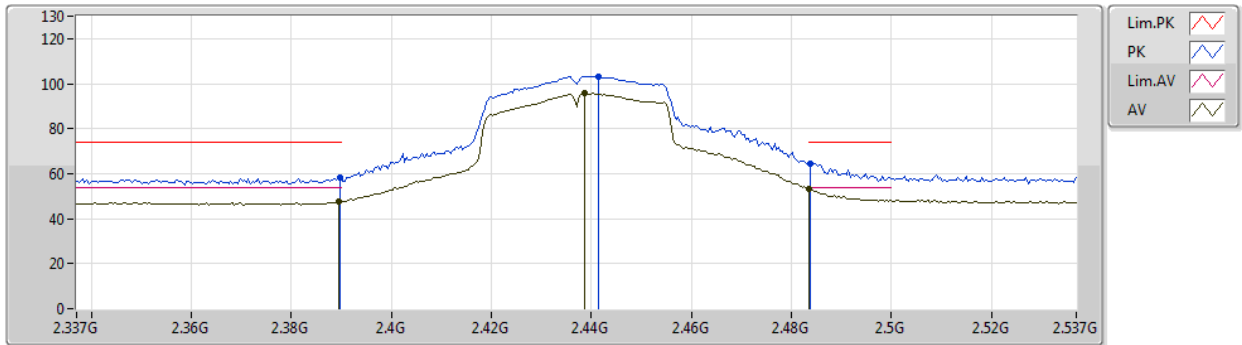


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	50.39	54.00	-3.61	31.38	3	Vertical	338	1.15	-	19.01	27.72	3.66	-
AV	2.4386G	99.18	Inf	-Inf	31.36	3	Vertical	338	1.15	-	67.82	27.66	3.70	-
AV	2.4835G	53.14	54.00	-0.86	31.37	3	Vertical	338	1.15	-	21.77	27.62	3.75	-
PK	2.3898G	61.64	74.00	-12.36	31.38	3	Vertical	338	1.15	-	30.26	27.72	3.66	-
PK	2.4358G	106.65	Inf	-Inf	31.36	3	Vertical	338	1.15	-	75.29	27.66	3.70	-
PK	2.4835G	64.68	74.00	-9.32	31.37	3	Vertical	338	1.15	-	33.31	27.62	3.75	-

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2437MHz_TX

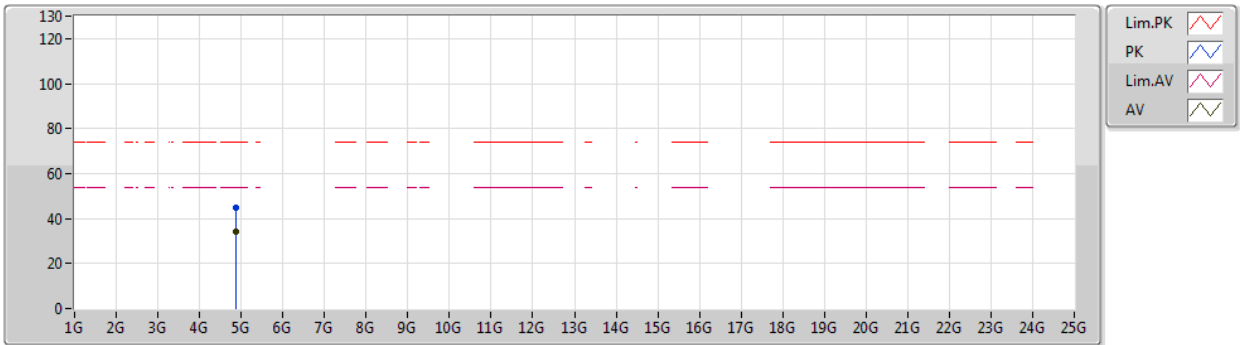


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	47.37	54.00	-6.63	31.38	3	Horizontal	347	1.00	-	15.99	27.72	3.66	-
AV	2.4386G	95.71	Inf	-Inf	31.36	3	Horizontal	347	1.00	-	64.35	27.66	3.70	-
AV	2.4835G	53.27	54.00	-0.73	31.37	3	Horizontal	347	1.00	-	21.90	27.62	3.75	-
PK	2.3898G	58.21	74.00	-15.79	31.38	3	Horizontal	347	1.00	-	26.83	27.72	3.66	-
PK	2.4414G	103.37	Inf	-Inf	31.37	3	Horizontal	347	1.00	-	72.00	27.66	3.71	-
PK	2.4838G	64.36	74.00	-9.64	31.37	3	Horizontal	347	1.00	-	32.99	27.62	3.75	-

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2437MHz_TX

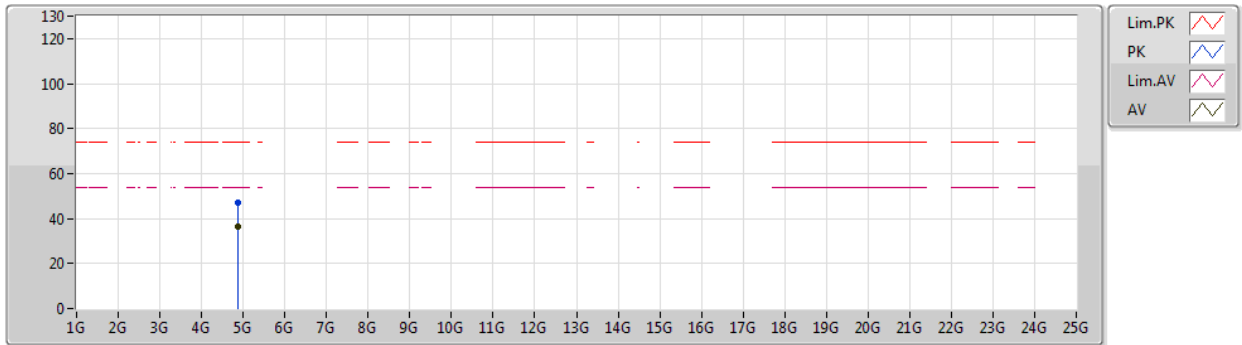


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87488G	33.92	54.00	-20.08	2.12	3	Vertical	0	2.54	-	31.80	31.27	5.36	34.51
PK	4.88204G	44.93	74.00	-29.07	2.13	3	Vertical	0	2.54	-	42.80	31.28	5.36	34.51

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2437MHz_TX

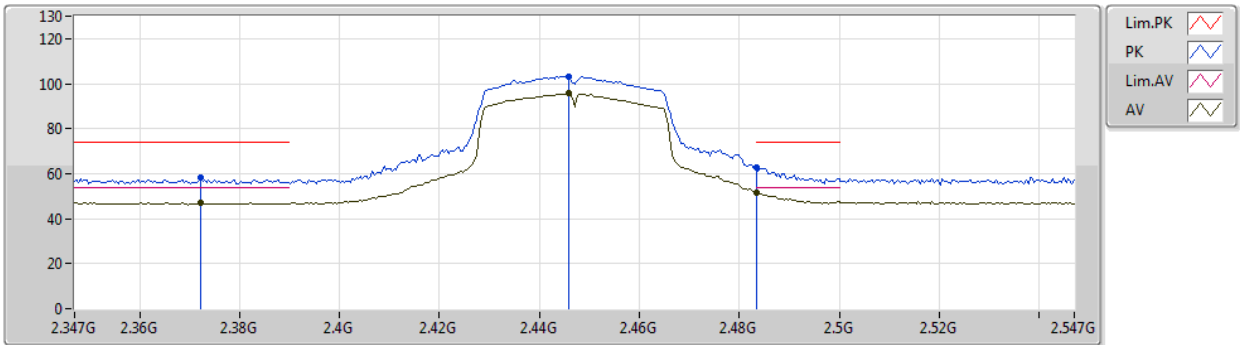


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87464G	36.43	54.00	-17.57	2.12	3	Horizontal	0	2.62	-	34.31	31.27	5.36	34.51
PK	4.87456G	46.98	74.00	-27.02	2.12	3	Horizontal	0	2.62	-	44.86	31.27	5.36	34.51

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2447MHz_TX

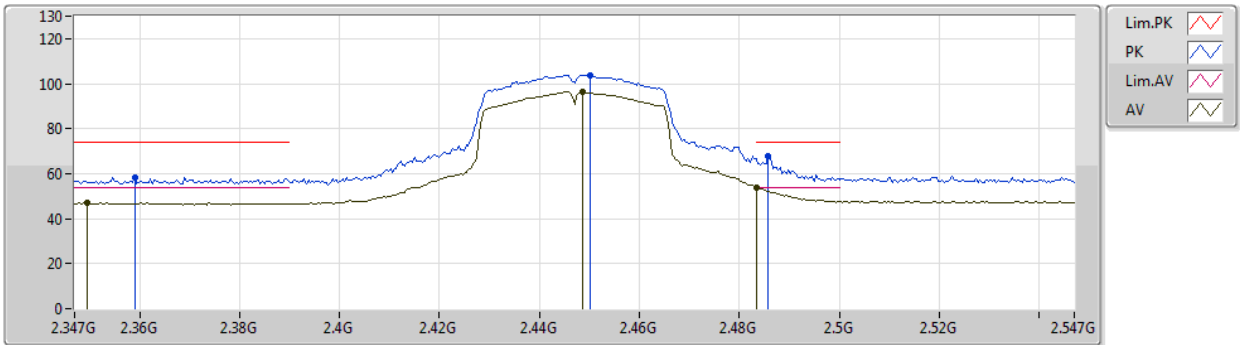


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3722G	47.19	54.00	-6.81	31.41	3	Vertical	351	2.57	-	15.78	27.76	3.65	-
AV	2.4458G	95.59	Inf	-Inf	31.36	3	Vertical	351	2.57	-	64.23	27.65	3.71	-
AV	2.4835G	51.73	54.00	-2.27	31.37	3	Vertical	351	2.57	-	20.36	27.62	3.75	-
PK	2.3722G	58.14	74.00	-15.86	31.41	3	Vertical	351	2.57	-	26.73	27.76	3.65	-
PK	2.4458G	103.13	Inf	-Inf	31.36	3	Vertical	351	2.57	-	71.77	27.65	3.71	-
PK	2.4835G	62.94	74.00	-11.06	31.37	3	Vertical	351	2.57	-	31.57	27.62	3.75	-

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2447MHz_TX

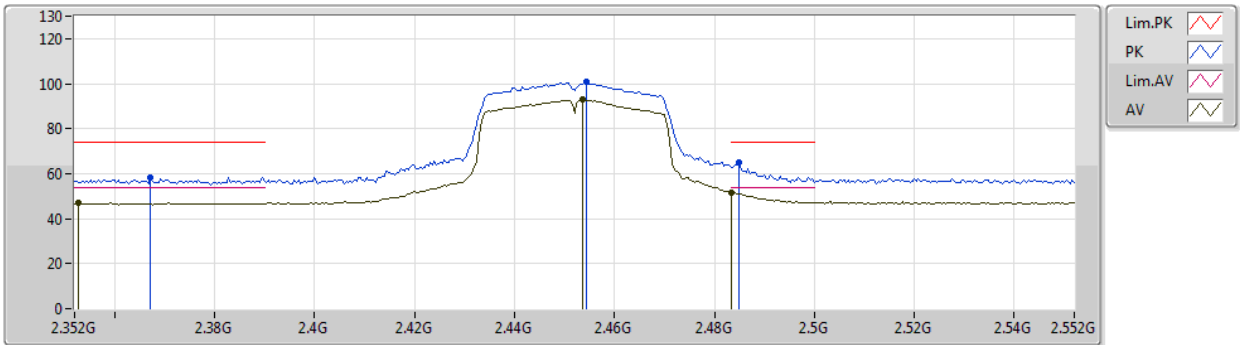


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3494G	47.05	54.00	-6.95	31.43	3	Horizontal	319	1.26	-	15.62	27.80	3.63	-
AV	2.4486G	96.51	Inf	-Inf	31.36	3	Horizontal	319	1.26	-	65.15	27.65	3.71	-
AV	2.4835G	53.88	54.00	-0.12	31.37	3	Horizontal	319	1.26	-	22.51	27.62	3.75	-
PK	2.359G	58.48	74.00	-15.52	31.42	3	Horizontal	319	1.26	-	27.06	27.78	3.64	-
PK	2.4502G	103.93	Inf	-Inf	31.37	3	Horizontal	319	1.26	-	72.56	27.65	3.72	-
PK	2.4858G	67.77	74.00	-6.23	31.36	3	Horizontal	319	1.26	-	36.41	27.61	3.75	-

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2452MHz_TX

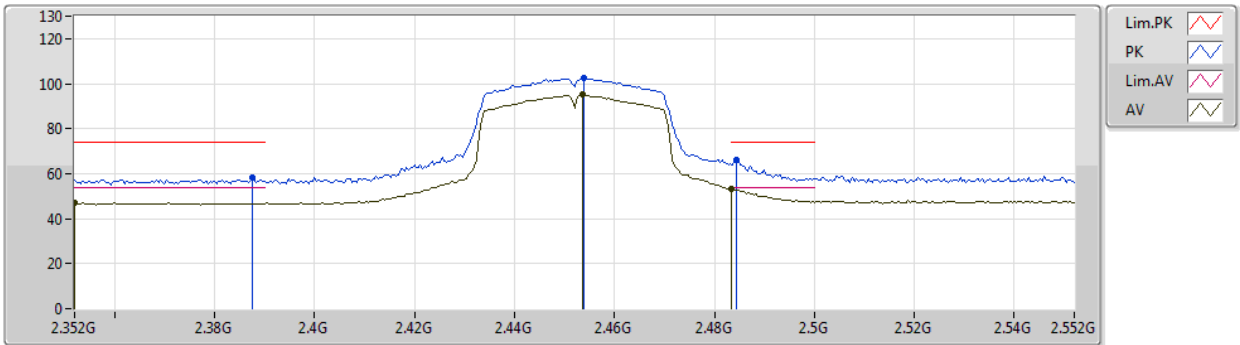


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3528G	47.03	54.00	-6.97	31.43	3	Vertical	334	1.41	-	15.60	27.79	3.64	-
AV	2.4536G	92.97	Inf	-Inf	31.37	3	Vertical	334	1.41	-	61.60	27.65	3.72	-
AV	2.4835G	51.73	54.00	-2.27	31.37	3	Vertical	334	1.41	-	20.36	27.62	3.75	-
PK	2.3672G	58.17	74.00	-15.83	31.42	3	Vertical	334	1.41	-	26.75	27.77	3.65	-
PK	2.4544G	100.61	Inf	-Inf	31.37	3	Vertical	334	1.41	-	69.24	27.65	3.72	-
PK	2.4848G	65.11	74.00	-8.89	31.37	3	Vertical	334	1.41	-	33.74	27.62	3.75	-

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2452MHz_TX

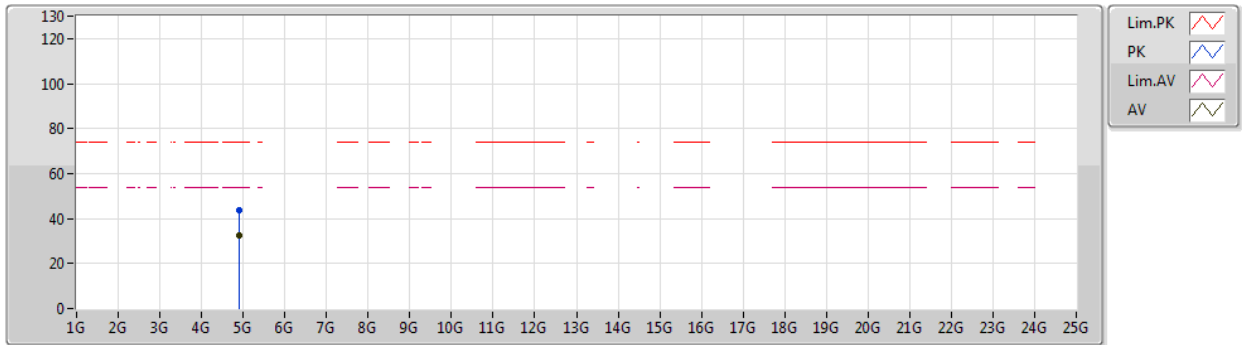


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.352G	47.05	54.00	-6.95	31.44	3	Horizontal	319	1.49	-	15.61	27.80	3.64	-
AV	2.4536G	95.09	Inf	-Inf	31.37	3	Horizontal	319	1.49	-	63.72	27.65	3.72	-
AV	2.4835G	53.01	54.00	-0.99	31.37	3	Horizontal	319	1.49	-	21.64	27.62	3.75	-
PK	2.3876G	58.14	74.00	-15.86	31.38	3	Horizontal	319	1.49	-	26.76	27.72	3.66	-
PK	2.454G	102.31	Inf	-Inf	31.37	3	Horizontal	319	1.49	-	70.94	27.65	3.72	-
PK	2.4844G	66.18	74.00	-7.82	31.37	3	Horizontal	319	1.49	-	34.81	27.62	3.75	-

802.11n HT40_Nss1,(MCS0)_1TX

24/01/2020

2452MHz_TX

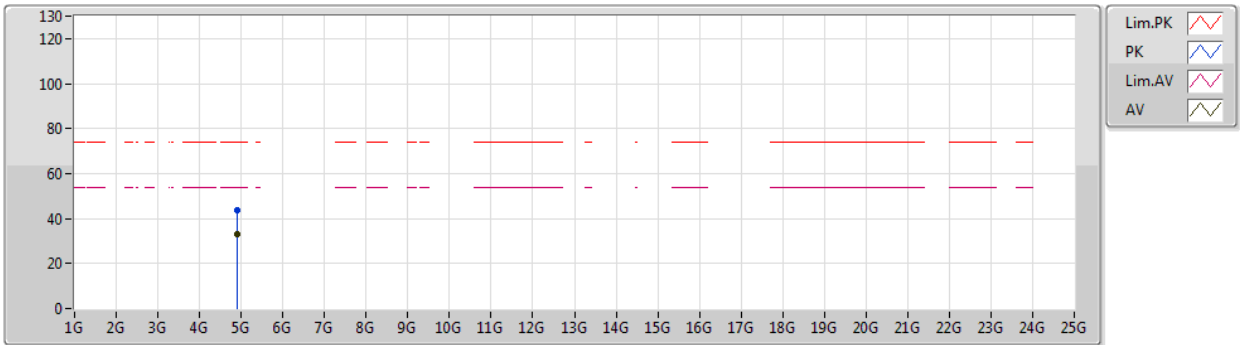


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.91008G	32.56	54.00	-21.44	2.21	3	Vertical	20	1.50	-	30.35	31.32	5.38	34.49
PK	4.9114G	43.70	74.00	-30.30	2.21	3	Vertical	20	1.50	-	41.49	31.32	5.38	34.49

802.11n HT40_Nss1,(MCS0)_1TX

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2452MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9134G	32.83	54.00	-21.17	2.22	3	Horizontal	315	1.50	-	30.61	31.33	5.38	34.49
PK	4.90336G	43.78	74.00	-30.22	2.18	3	Horizontal	315	1.50	-	41.60	31.31	5.37	34.50