



FCC Test Report

FCC ID : IPH-03837
Equipment : low power transmitter
Model Name : A03837
Applicant : Garmin International Inc
1200 East 151st Olathe, KS 66062
Manufacturer : Garmin International Inc
1200 East 151st Olathe, KS 66062
Standard : 47 CFR FCC Part 15.247

The product was received on Feb. 11, 2020, and testing was started from Feb. 20, 2020 and completed on Mar. 04, 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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PHOTOGRAPHS OF EUT V01



Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
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: Michelle Tsai



1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	NA	NA	Printed	i-Pex
2	NA	NA	Printed	i-Pex

Ant.	Port	Gain (dBi)	
		2.4G	BT
1	1	4.28	-
2	1	-	4.28

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

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

For BT function:

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

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



1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b_Nss1,(1Mbps)_1TX	0.988	0.05	8.388m	10
802.11g_Nss1,(6Mbps)_1TX	0.969	0.14	3.113m	1k
802.11n HT20_Nss1,(MCS0)_1TX	0.97	0.13	3.113m	1k

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



1.2 Testing Applied Standards

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO01-HY	Edward Wang	19.9°C ~20.4°C / 50%~65%	22/Feb/2020
RF Conducted	TH01-HY	Andy Lee	20.5°C ~26.5°C / 61.5%~66.5%	21/Feb/2020~04/Mar/2020
Radiated	03CH01-HY	Edward Wang	19.9°C ~21.5°C / 40%~50%	20/Feb/2020~21/Feb/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	120V

2.2 Test Channel Mode

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

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	4
2437MHz	4
2457MHz	4
2462MHz	4
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	4
2437MHz	4
2457MHz	4
2462MHz	4
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	4
2437MHz	4
2457MHz	4
2462MHz	4

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

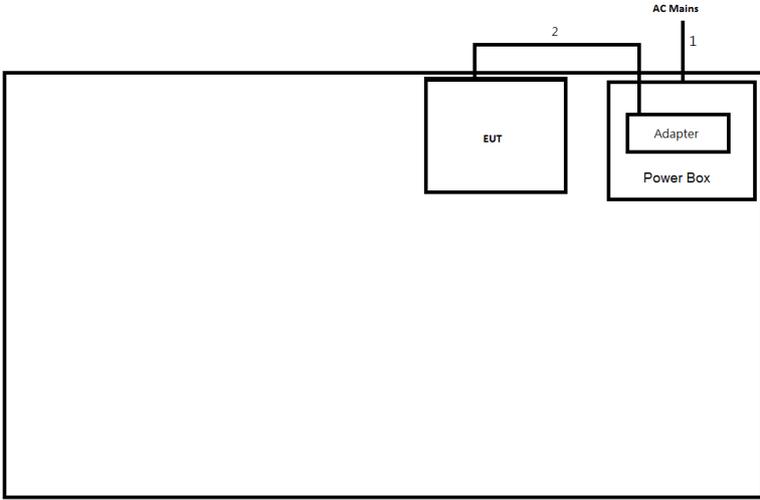
Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	PHIHONG	PSAC24A-120LB	-	-

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

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	DC Power Supply	GW	GPS-3030DD	-	-

2.5 Test Setup Diagram

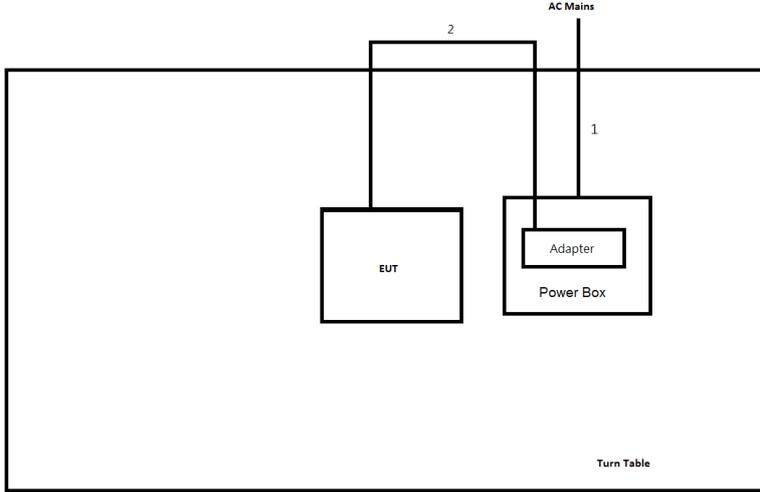
Test Setup Diagram – AC Line Conducted Emission Test



The diagram shows a test setup for AC Line Conducted Emission. A box labeled 'EUT' (Equipment Under Test) is connected to a 'Power Box' via a cable labeled '2'. The 'Power Box' contains an 'Adapter' and is connected to 'AC Mains' via a cable labeled '1'.

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

Test Setup Diagram - Radiated Test



The diagram shows a test setup for Radiated Emission. A box labeled 'EUT' is placed on a 'Turn Table'. The 'Turn Table' is connected to a 'Power Box' via a cable labeled '2'. The 'Power Box' contains an 'Adapter' and is connected to 'AC Mains' via a cable labeled '1'.

Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.5	-
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.

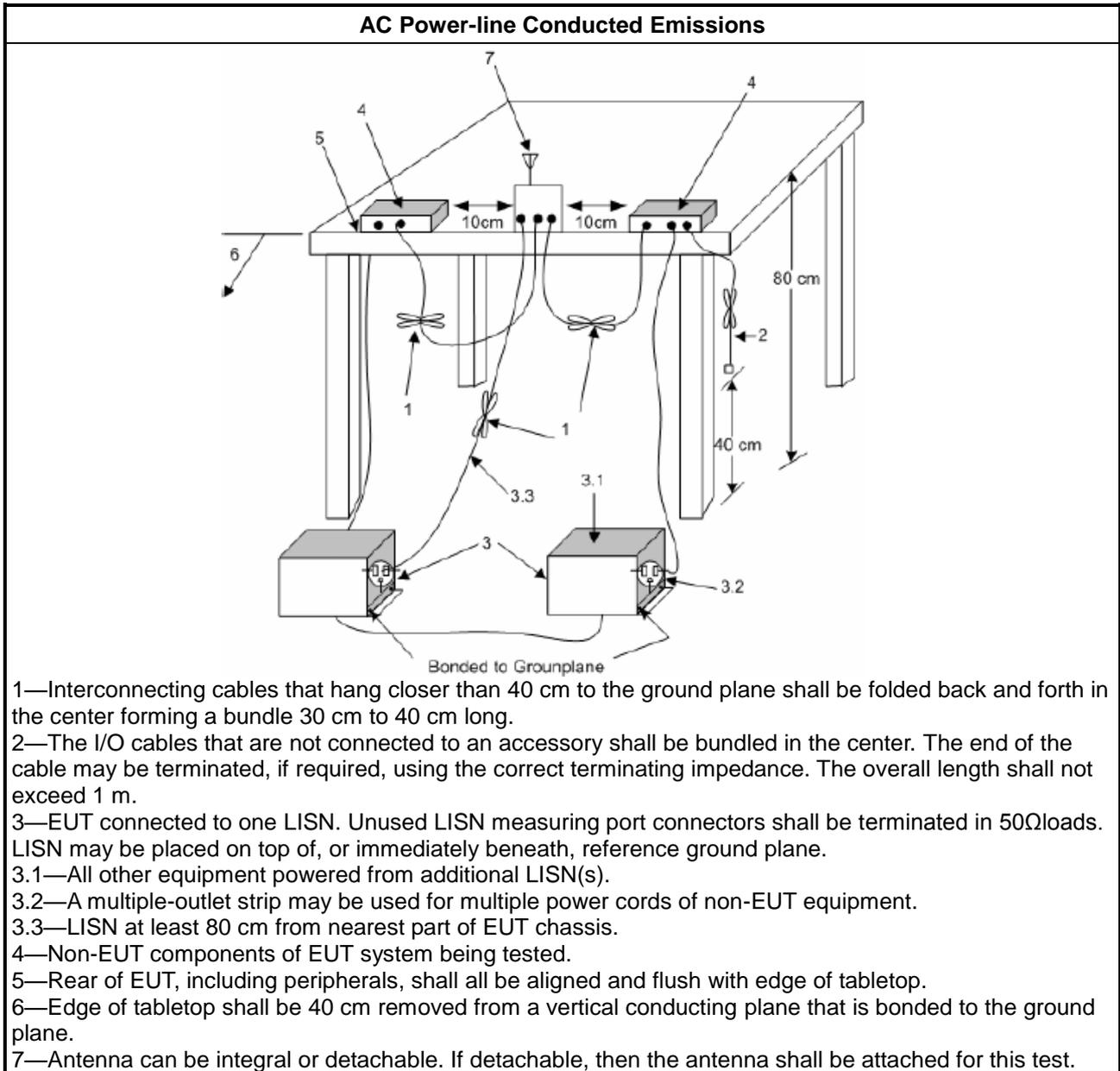
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> 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:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

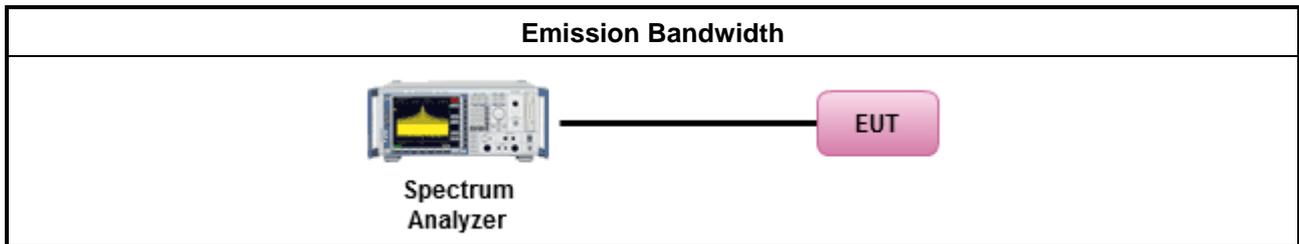
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
<input type="checkbox"/> Refer as RSS-Gen, clause 6.7 for for occupied bandwidth testing.
<input type="checkbox"/> 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	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS):
	<ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - 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:	
	<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS)
	<ul style="list-style-type: none"> - Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - 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.	

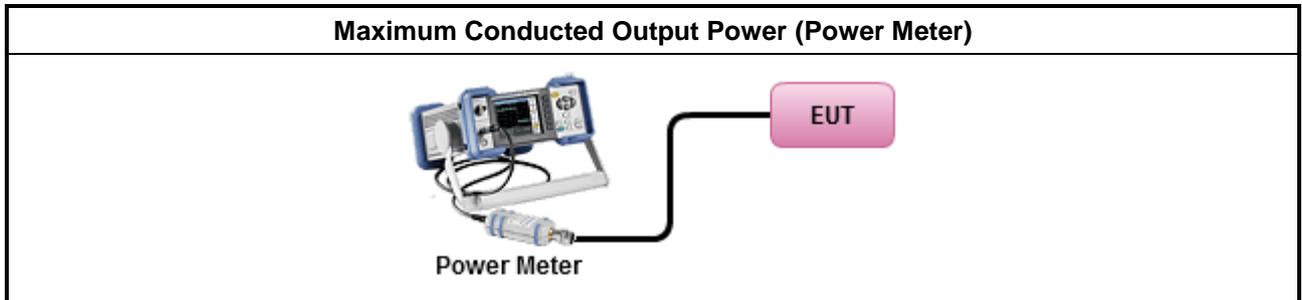
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
<ul style="list-style-type: none"> ▪ Maximum Average Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ 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
<ul style="list-style-type: none"> Power Spectral Density (PSD) \leq 8 dBm/3kHz

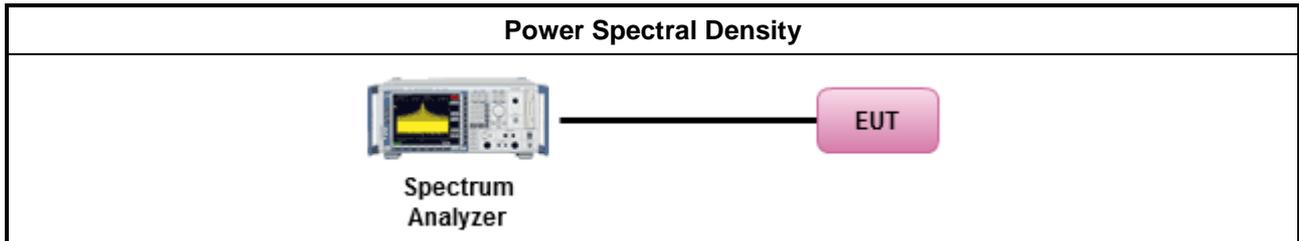
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
<ul style="list-style-type: none"> 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).
<input checked="" type="checkbox"/> Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
<ul style="list-style-type: none"> For conducted measurement.
<ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> 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.

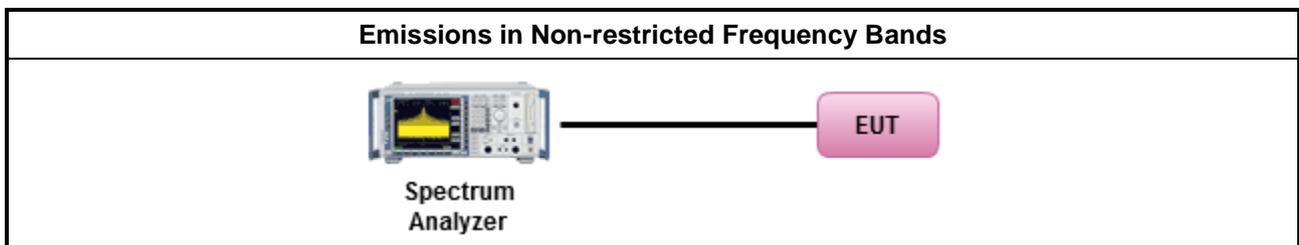
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> 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

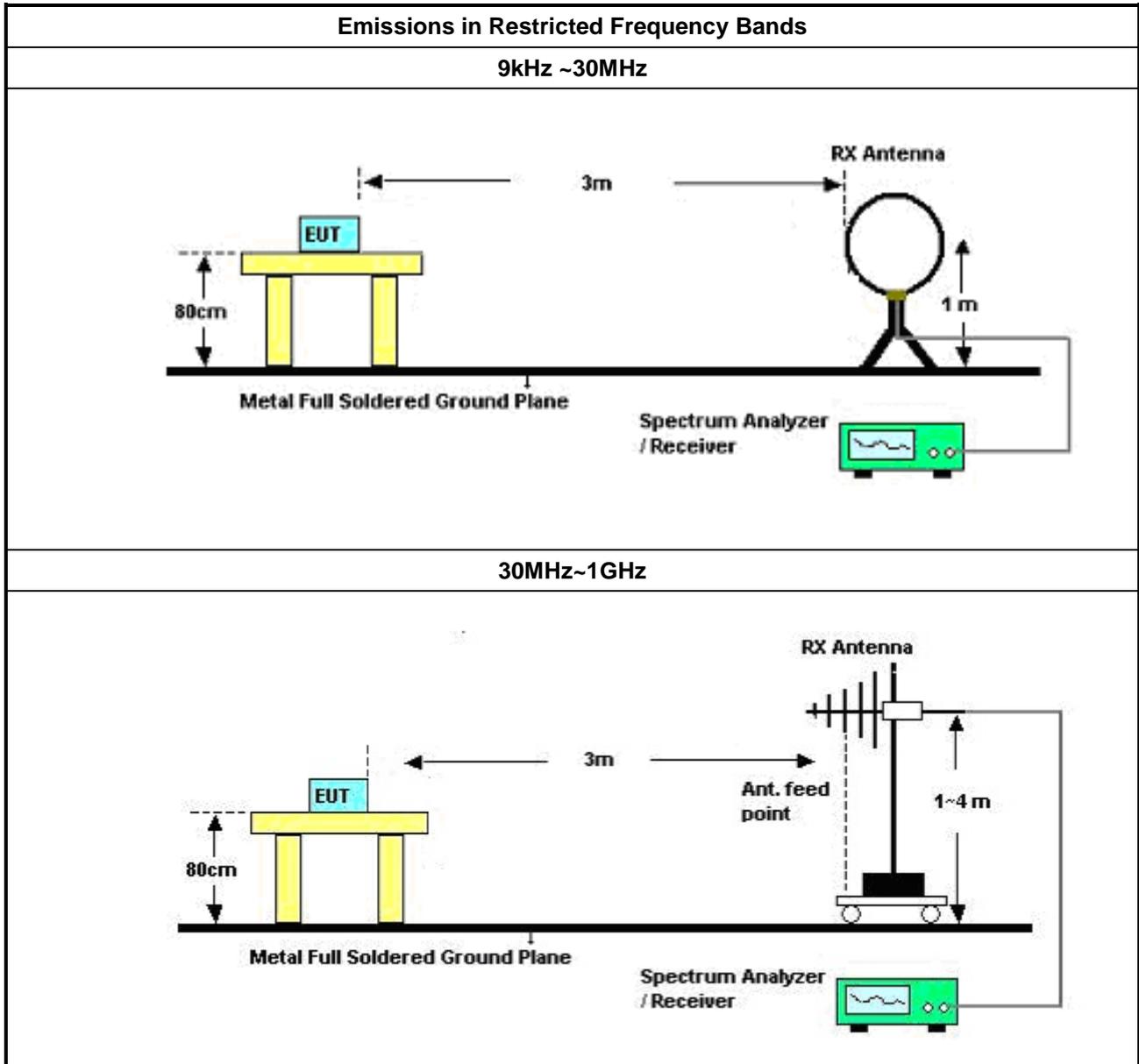
Refer a test equipment and calibration data table in this test report.

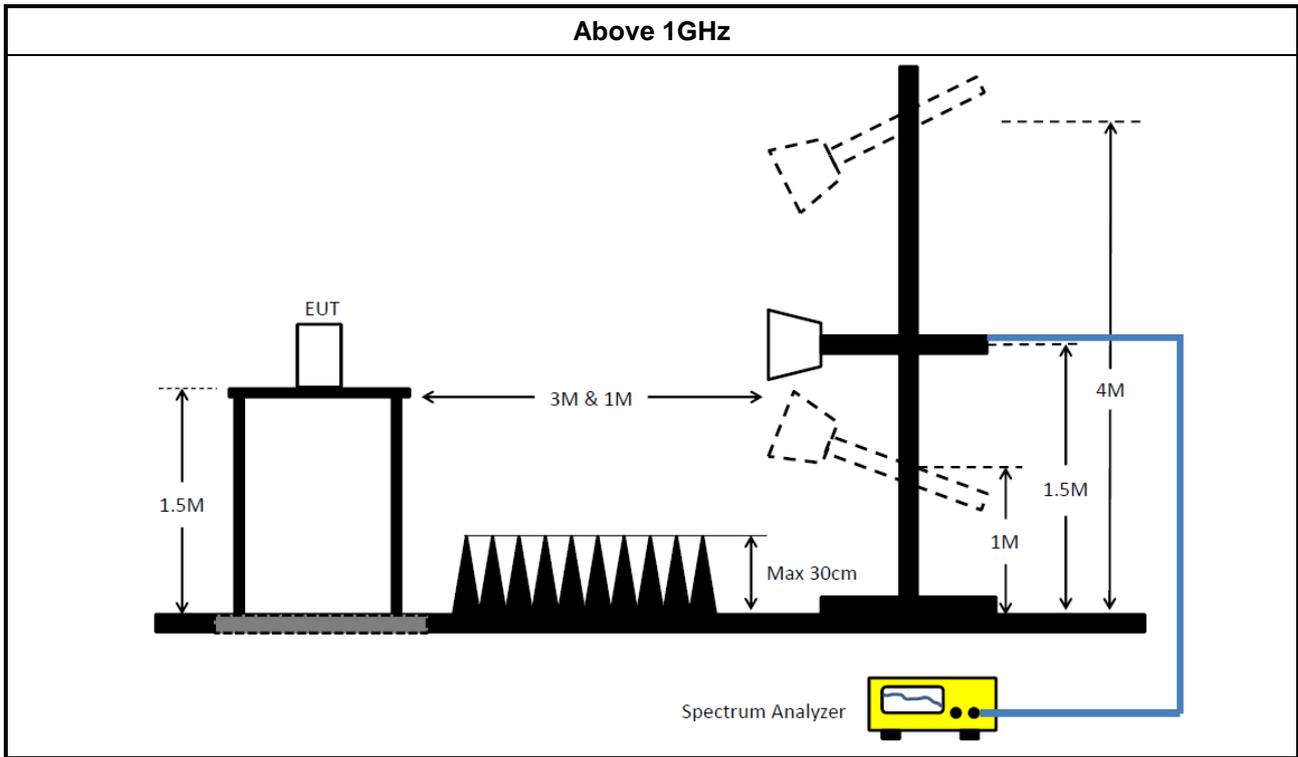


3.6.3 Test Procedures

Test Method	
	<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below:
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below:
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
	<ul style="list-style-type: none"> ▪ Use the following spectrum analyzer settings:
	<ul style="list-style-type: none"> ▪ Set RBW=100 kHz for f < 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	<ul style="list-style-type: none"> ▪ Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.
	<ul style="list-style-type: none"> ▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	<ul style="list-style-type: none"> ▪ Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	<ul style="list-style-type: none"> ▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.6.4 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	101013	10Hz~40GHz	13/Mar/2019	12/Mar/2020
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	25/Nov/2019	24/Nov/2020
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	25/Nov/2019	24/Nov/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

Instrument for Radiated Test

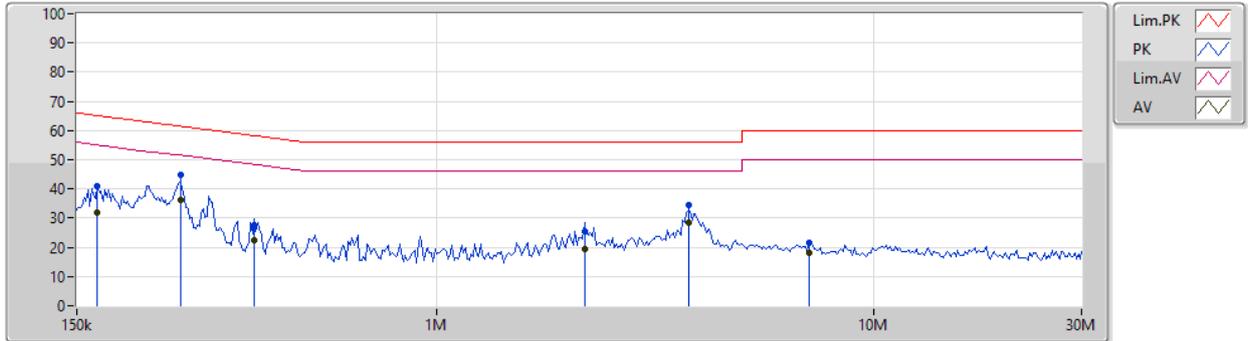
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	Riken	SAC-3M	03CH01-HY	30MHz ~ 1GHz 3m	02/Jan/2020	01/Jan/2020
Site V.S.W.R	Riken	SAC-3M	03CH01-HY	1GHz ~ 18GHz 3m	08/Jan/2020	07/Jan/2021
PreAmplifier	COM-POWER	PA-103	161050	1 MHz ~ 1.0GHz	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+MY39495	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
Horn Antenna	SCHWARZBECK	BBHA 9120	BBHA9120D01834	1GHz ~ 18GHz	06/Feb/2020	05/Feb/2021



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter Mode		

22/02/2020



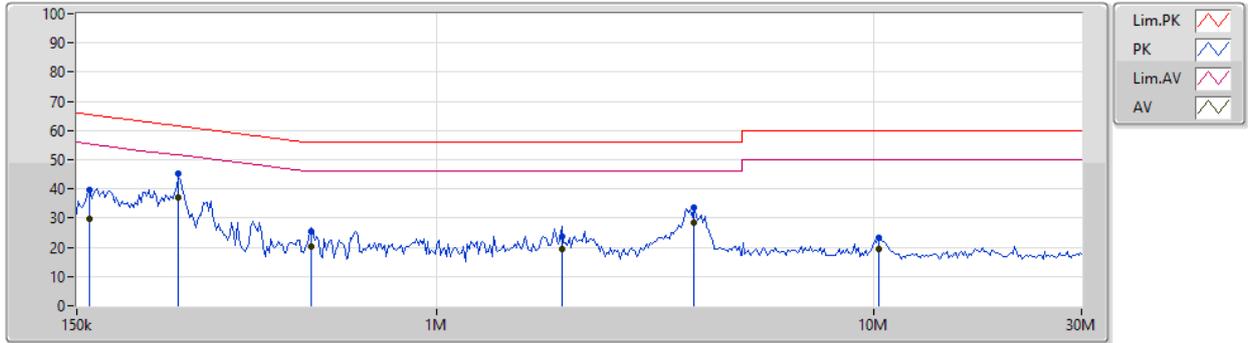
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	167.35k	40.77	65.08	-24.31	19.63	Neutral	-	21.14	9.65	0.11	9.87
AV	167.35k	31.69	55.08	-23.39	19.63	Neutral	-	12.06	9.65	0.11	9.87
QP	259.279k	44.97	61.45	-16.48	19.63	Neutral	-	25.34	9.64	0.12	9.87
AV	259.279k	36.22	51.45	-15.23	19.63	Neutral	"Worst"	16.59	9.64	0.12	9.87
QP	382.209k	27.80	58.24	-30.44	19.62	Neutral	-	8.18	9.63	0.12	9.87
AV	382.209k	22.23	48.24	-26.01	19.62	Neutral	-	2.61	9.63	0.12	9.87
QP	2.18M	25.43	56.00	-30.57	19.67	Neutral	-	5.76	9.65	0.15	9.87
AV	2.18M	19.38	46.00	-26.62	19.67	Neutral	-	-0.29	9.65	0.15	9.87
QP	3.769M	34.43	56.00	-21.57	19.72	Neutral	-	14.71	9.66	0.18	9.88
AV	3.769M	28.32	46.00	-17.68	19.72	Neutral	-	8.60	9.66	0.18	9.88
QP	7.125M	21.52	60.00	-38.48	19.81	Neutral	-	1.71	9.69	0.24	9.88
AV	7.125M	18.23	50.00	-31.77	19.81	Neutral	-	-1.58	9.69	0.24	9.88



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter Mode		

22/02/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	160.82k	39.73	65.43	-25.70	19.64	Line	-	20.09	9.66	0.11	9.87
AV	160.82k	29.83	55.43	-25.60	19.64	Line	-	10.19	9.66	0.11	9.87
QP	256.712k	45.44	61.54	-16.10	19.64	Line	-	25.80	9.65	0.12	9.87
AV	256.712k	36.92	51.54	-14.62	19.64	Line	"Worst"	17.28	9.65	0.12	9.87
QP	515.159k	25.38	56.00	-30.62	19.64	Line	-	5.74	9.64	0.13	9.87
AV	515.159k	20.10	46.00	-25.90	19.64	Line	-	0.46	9.64	0.13	9.87
QP	1.935M	23.56	56.00	-32.44	19.67	Line	-	3.89	9.65	0.15	9.87
AV	1.935M	19.27	46.00	-26.73	19.67	Line	-	-0.40	9.65	0.15	9.87
QP	3.883M	33.64	56.00	-22.36	19.73	Line	-	13.91	9.66	0.19	9.88
AV	3.883M	28.41	46.00	-17.59	19.73	Line	-	8.68	9.66	0.19	9.88
QP	10.296M	23.35	60.00	-36.65	19.84	Line	-	3.51	9.69	0.27	9.88
AV	10.296M	19.53	50.00	-30.47	19.84	Line	-	-0.31	9.69	0.27	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	13.518M	13M5G1D	10.05M	13.493M
802.11g_Nss1,(6Mbps)_1TX	16.375M	16.667M	16M7D1D	16.325M	16.617M
802.11n HT20_Nss1,(MCS0)_1TX	17.6M	17.641M	17M6D1D	17.575M	17.616M

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

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	10.075M	13.493M
2437MHz	Pass	500k	10.05M	13.518M
2462MHz	Pass	500k	10.075M	13.518M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.35M	16.617M
2437MHz	Pass	500k	16.375M	16.617M
2462MHz	Pass	500k	16.325M	16.667M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.575M	17.641M
2437MHz	Pass	500k	17.575M	17.641M
2462MHz	Pass	500k	17.6M	17.616M

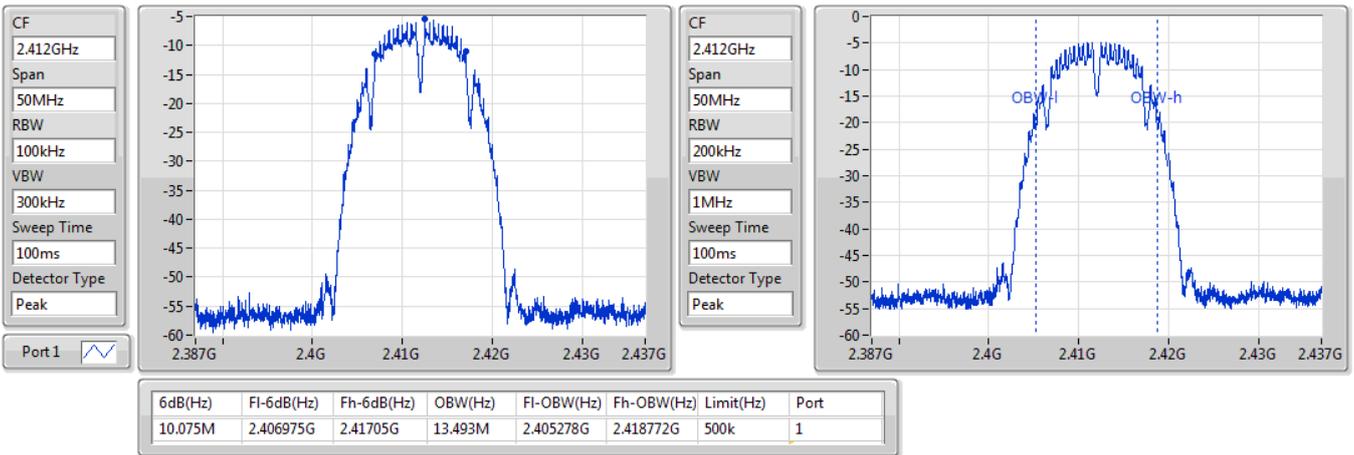
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_1TX

EBW

2412MHz

04/03/2020

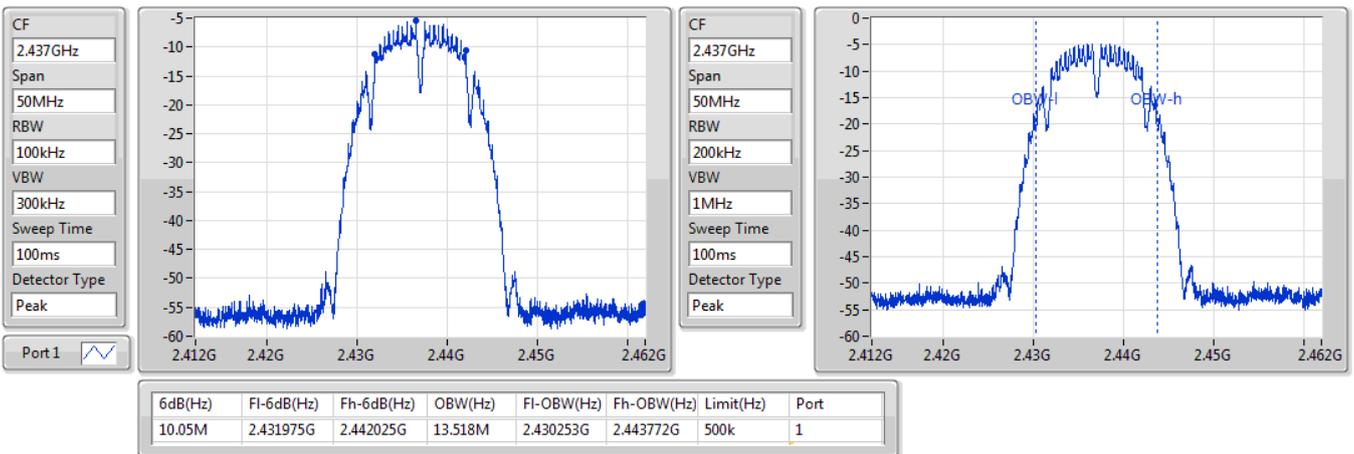


802.11b_Nss1,(1Mbps)_1TX

EBW

2437MHz

04/03/2020

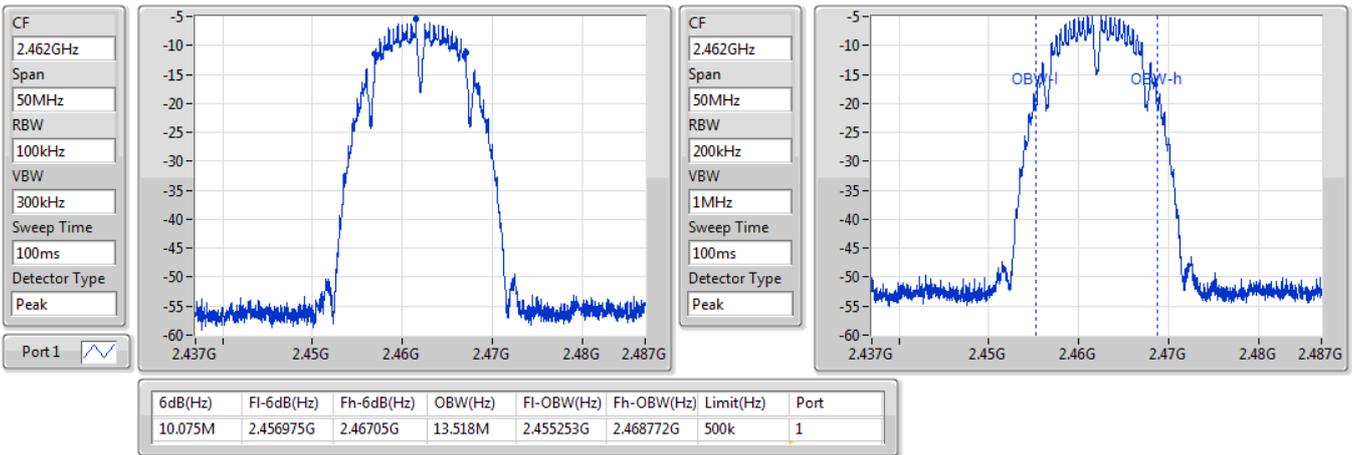


802.11b_Nss1,(1Mbps)_1TX

EBW

2462MHz

04/03/2020

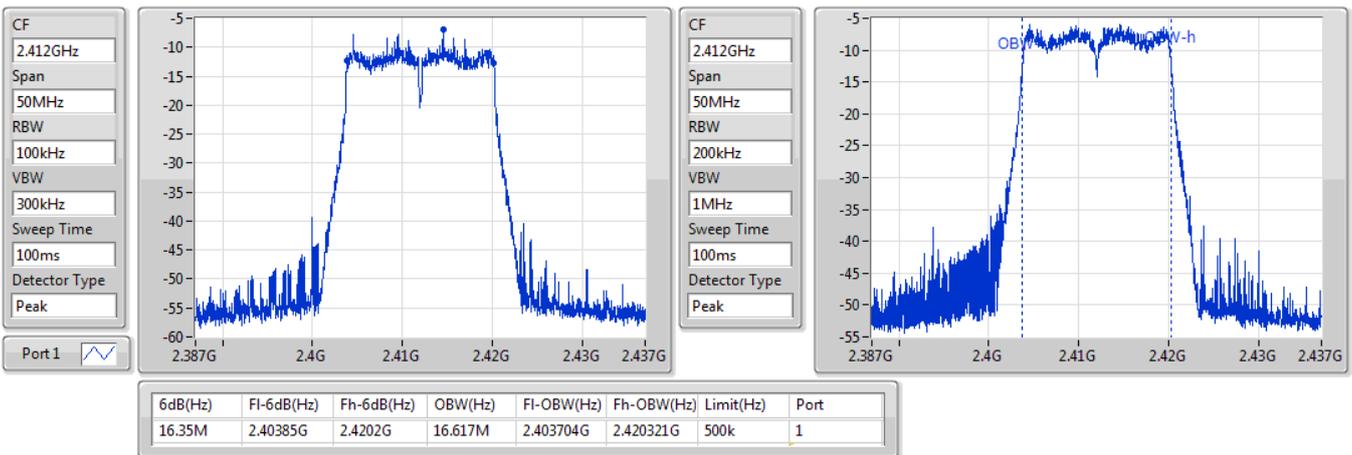


802.11g_Nss1,(6Mbps)_1TX

EBW

2412MHz

04/03/2020

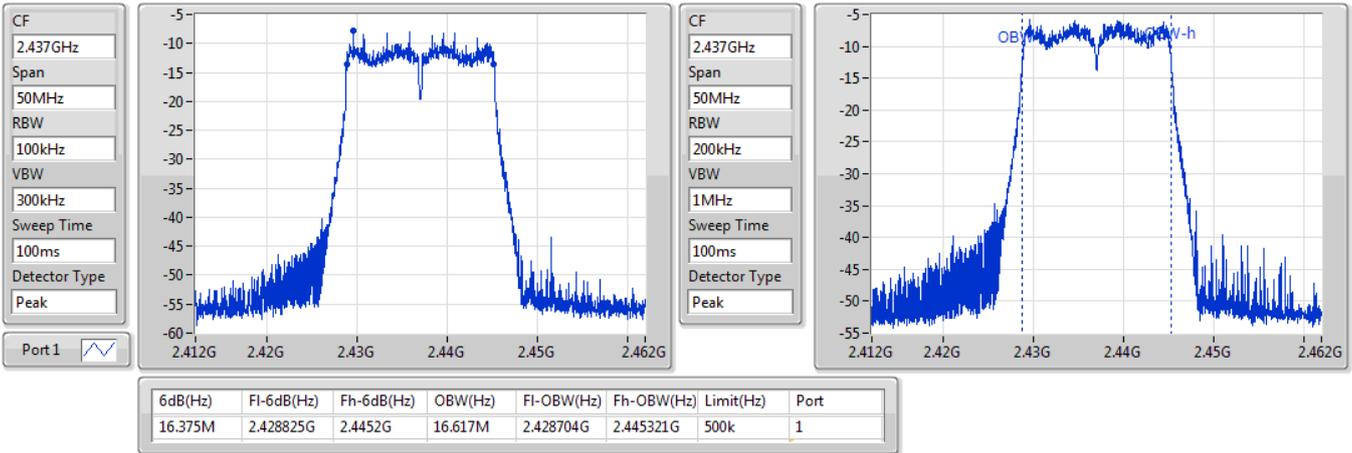


802.11g_Nss1,(6Mbps)_1TX

EBW

2437MHz

04/03/2020

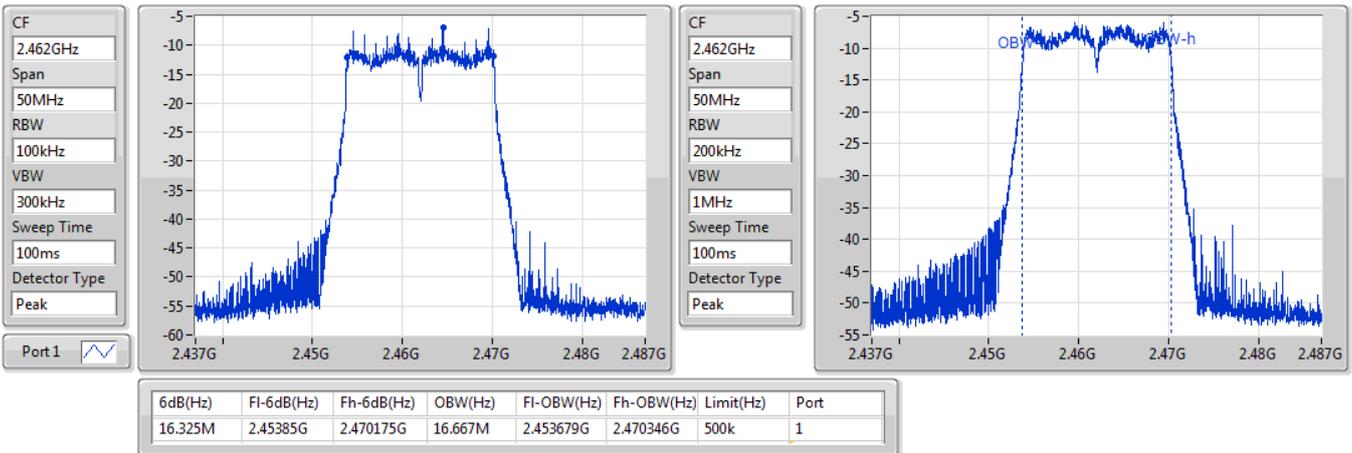


802.11g_Nss1,(6Mbps)_1TX

EBW

2462MHz

04/03/2020

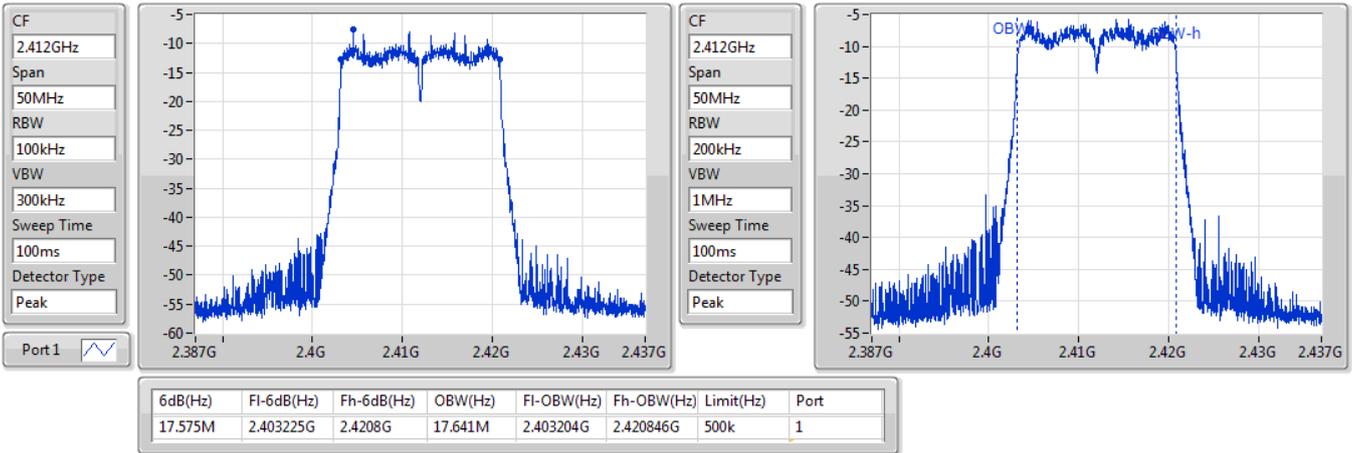


802.11n HT20_Nss1,(MCS0)_1TX

EBW

2412MHz

04/03/2020

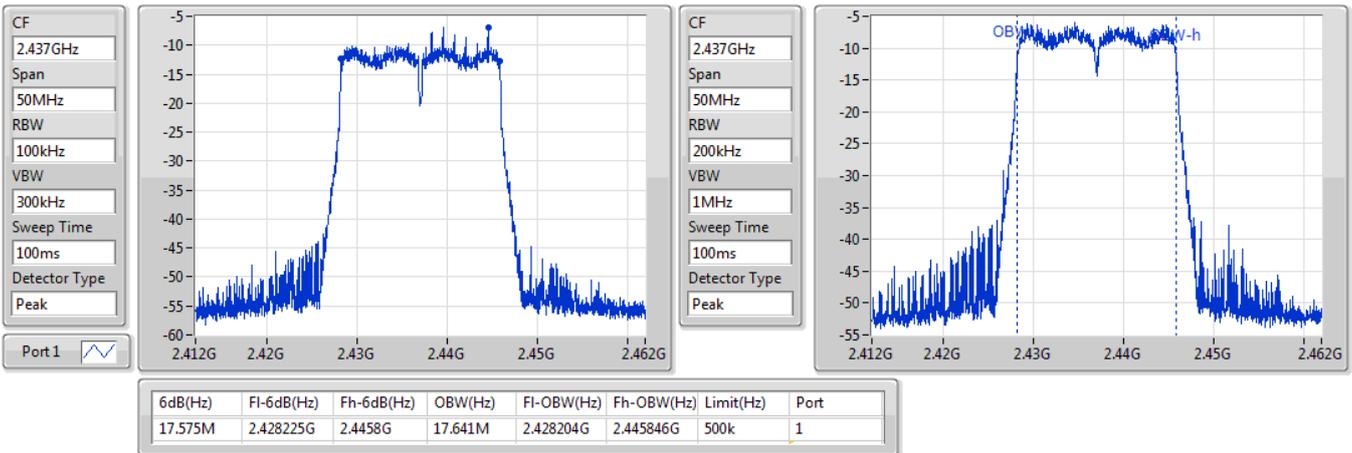


802.11n HT20_Nss1,(MCS0)_1TX

EBW

2437MHz

04/03/2020

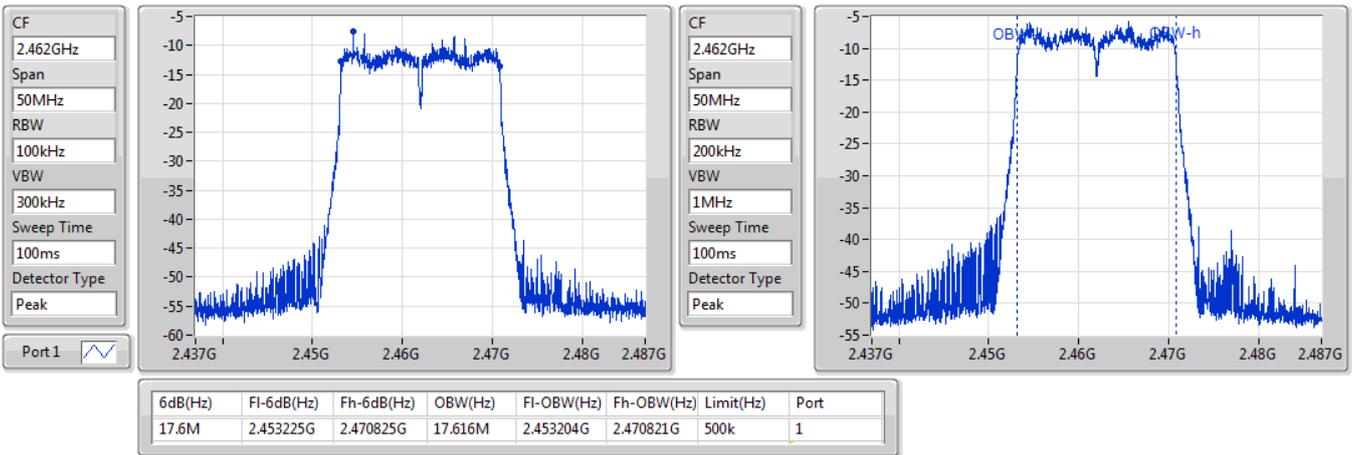


802.11n HT20_Nss1,(MCS0)_1TX

EBW

2462MHz

04/03/2020





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	5.04	0.00319
802.11g_Nss1,(6Mbps)_1TX	4.93	0.00311
802.11n HT20_Nss1,(MCS0)_1TX	5.13	0.00326



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.28	5.02	5.02	30.00
2437MHz	Pass	4.28	5.04	5.04	30.00
2462MHz	Pass	4.28	5.02	5.02	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.28	4.93	4.93	30.00
2437MHz	Pass	4.28	4.92	4.92	30.00
2462MHz	Pass	4.28	4.89	4.89	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	4.28	5.13	5.13	30.00
2437MHz	Pass	4.28	5.13	5.13	30.00
2462MHz	Pass	4.28	5.07	5.07	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	-19.90
802.11g_Nss1,(6Mbps)_1TX	-22.70
802.11n HT20_Nss1,(MCS0)_1TX	-21.21

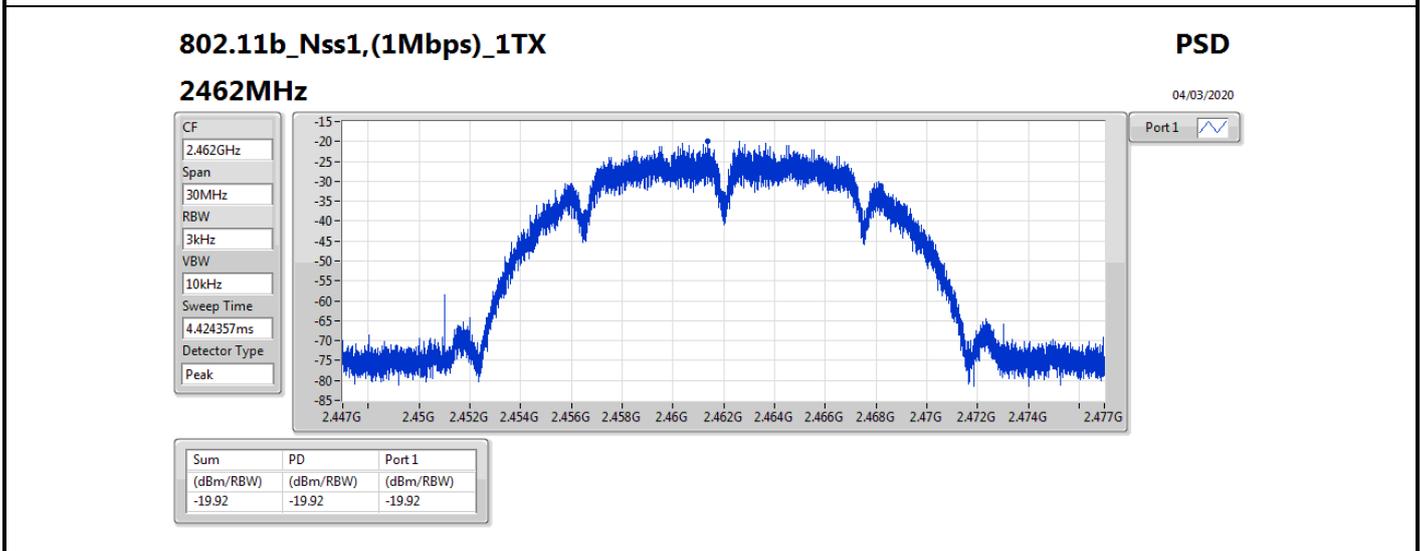
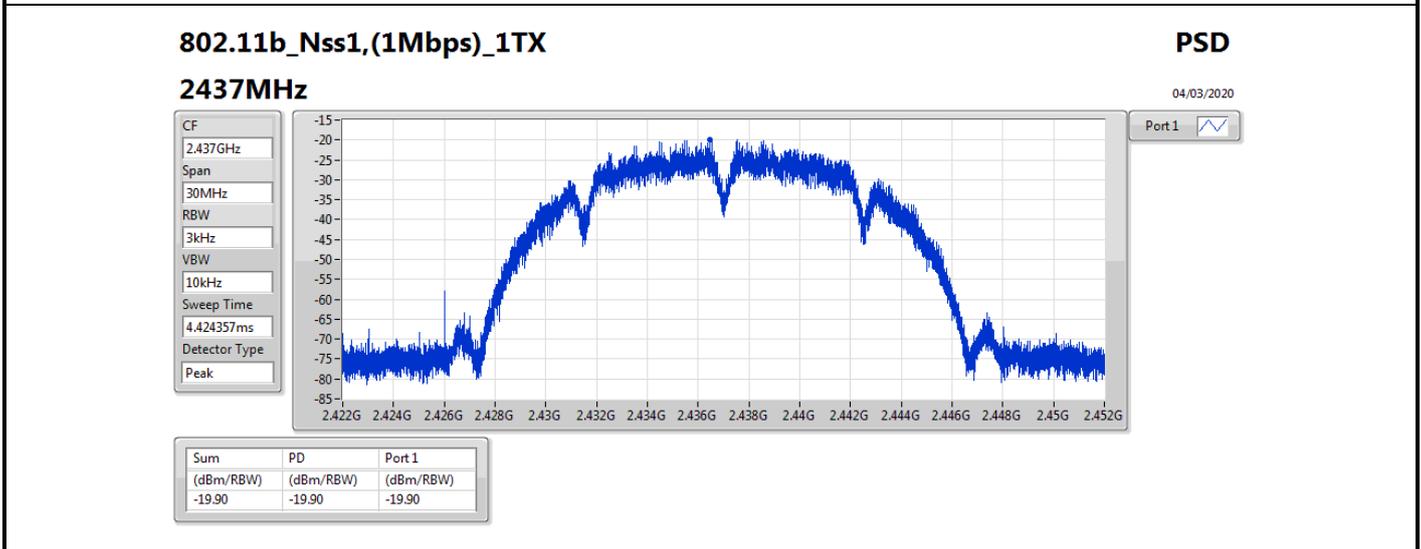
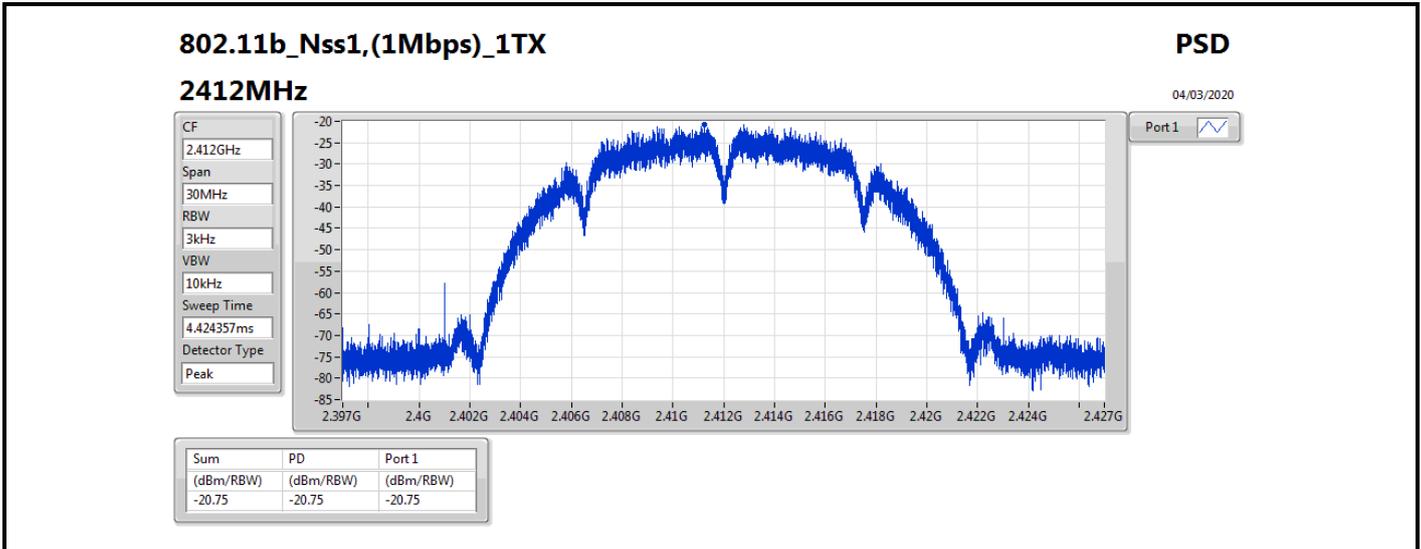
RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

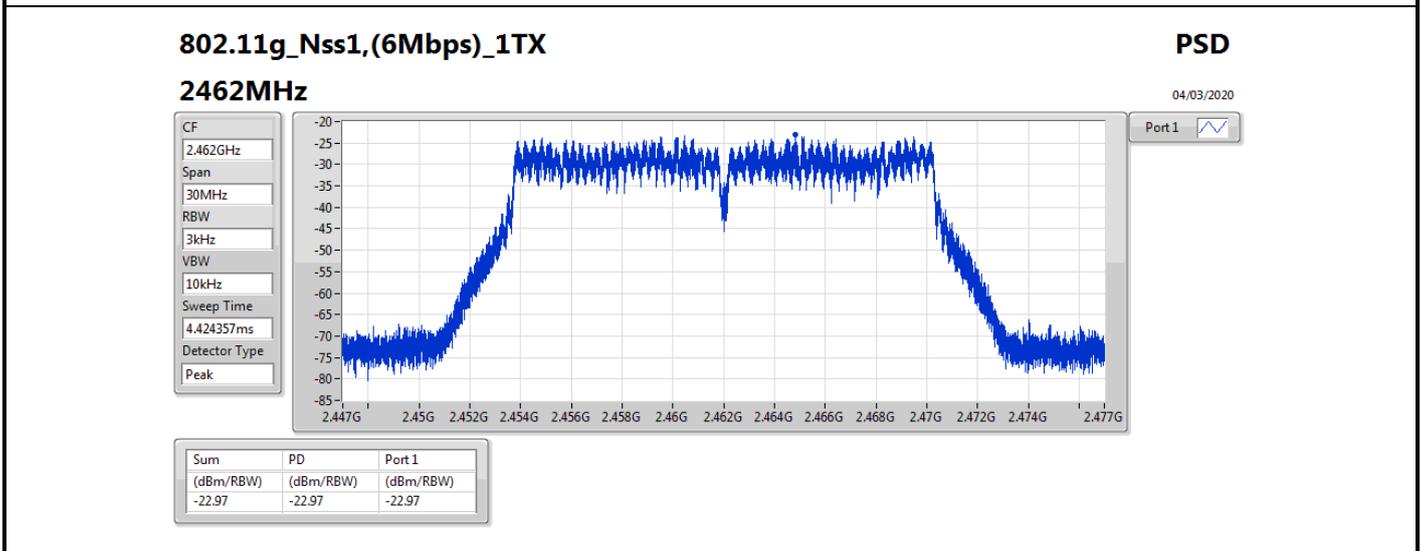
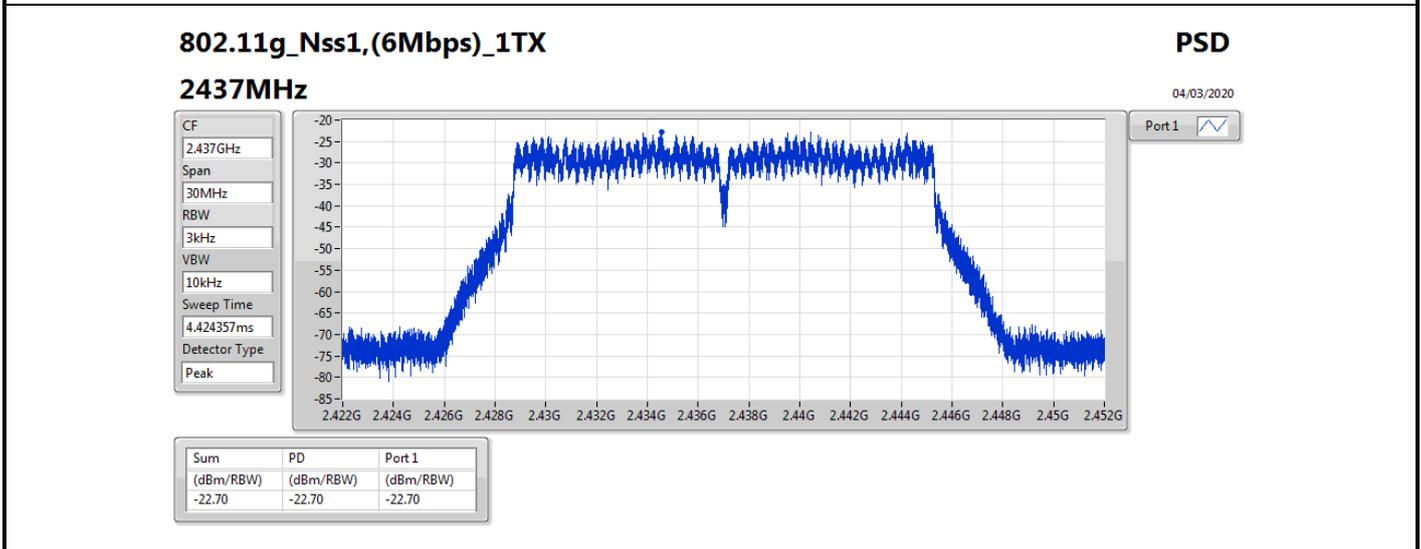
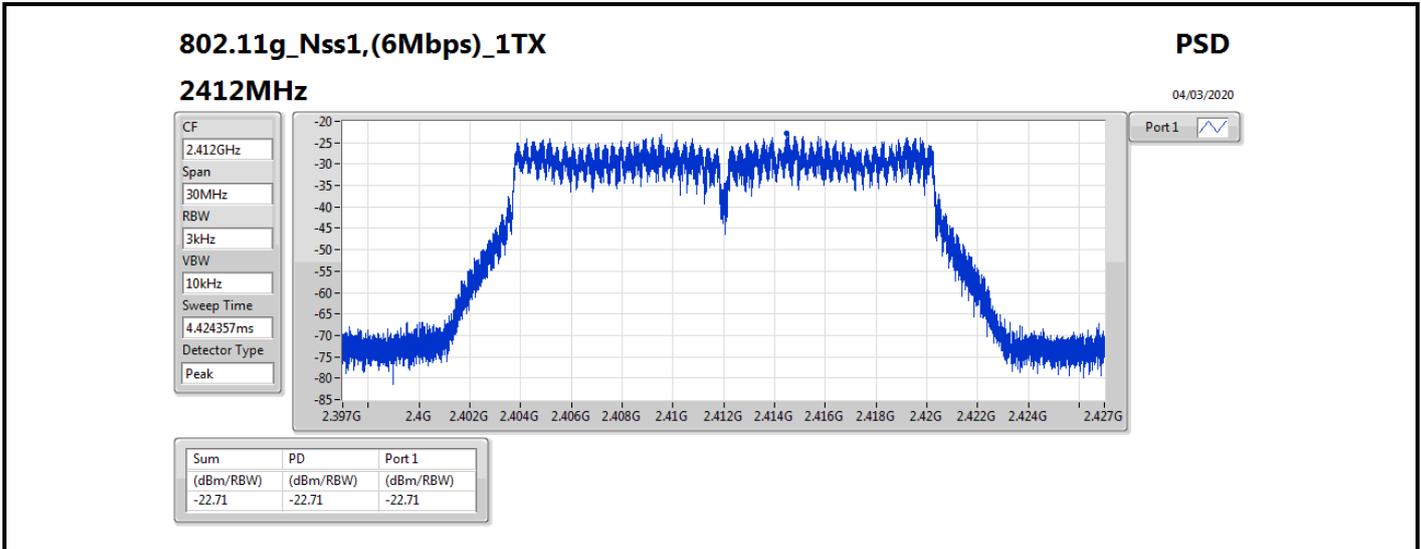
Result

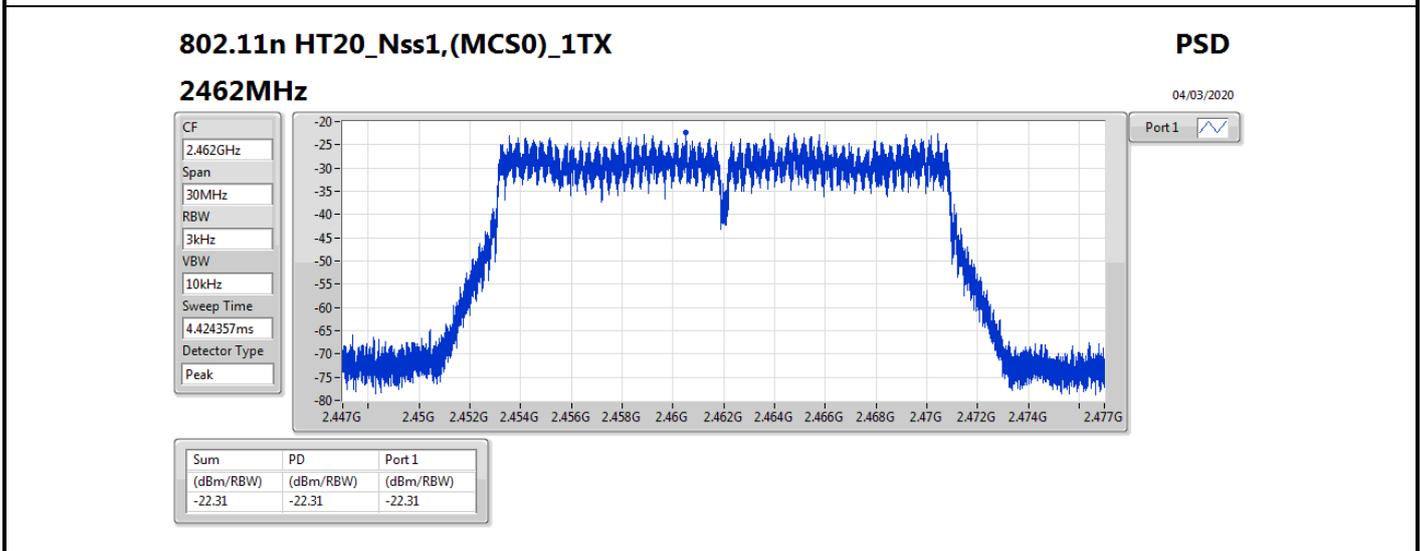
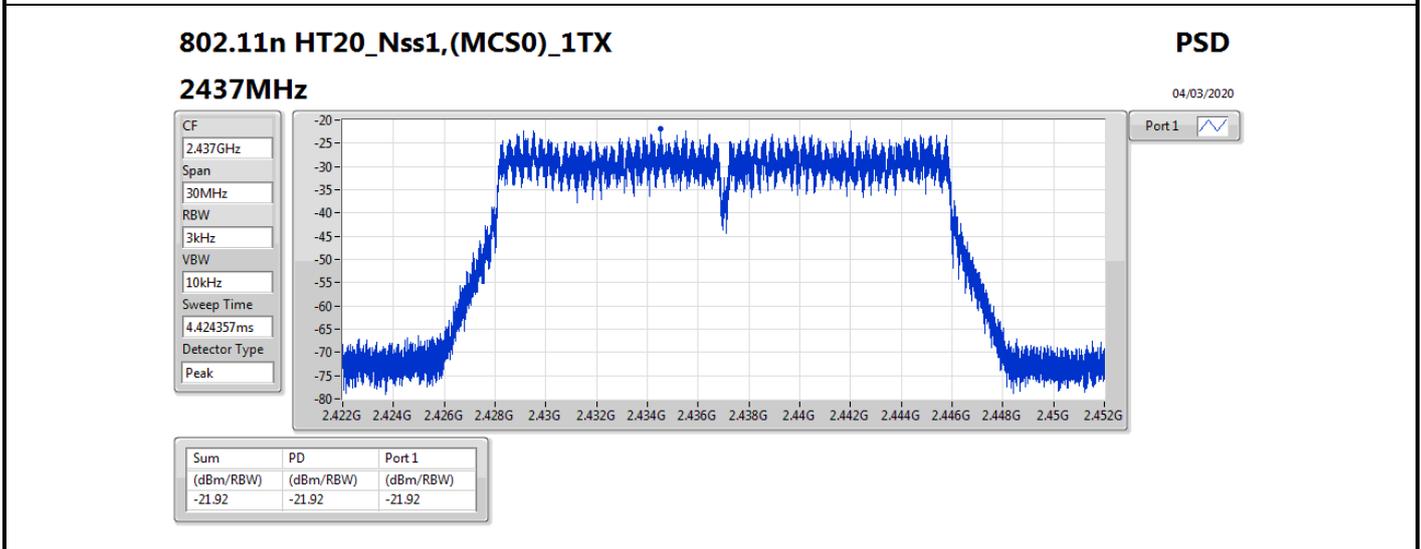
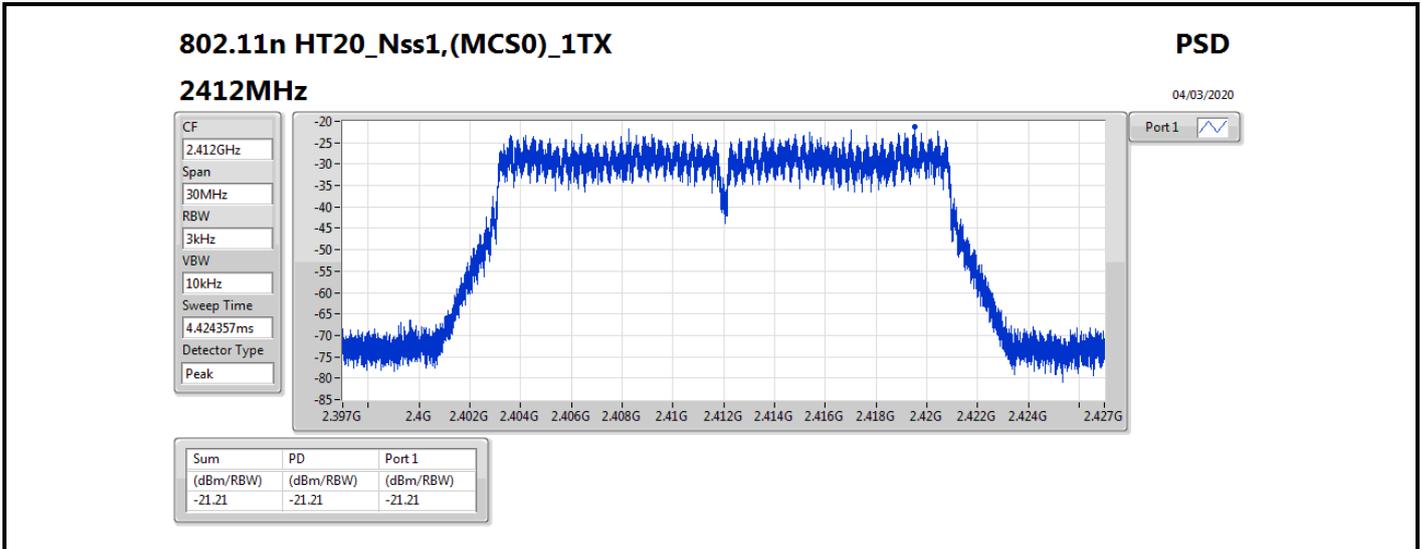
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.28	-20.75	-20.75	8.00
2437MHz	Pass	4.28	-19.90	-19.90	8.00
2462MHz	Pass	4.28	-19.92	-19.92	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.28	-22.71	-22.71	8.00
2437MHz	Pass	4.28	-22.70	-22.70	8.00
2462MHz	Pass	4.28	-22.97	-22.97	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	4.28	-21.21	-21.21	8.00
2437MHz	Pass	4.28	-21.92	-21.92	8.00
2462MHz	Pass	4.28	-22.31	-22.31	8.00

DG = Directional Gain; RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

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









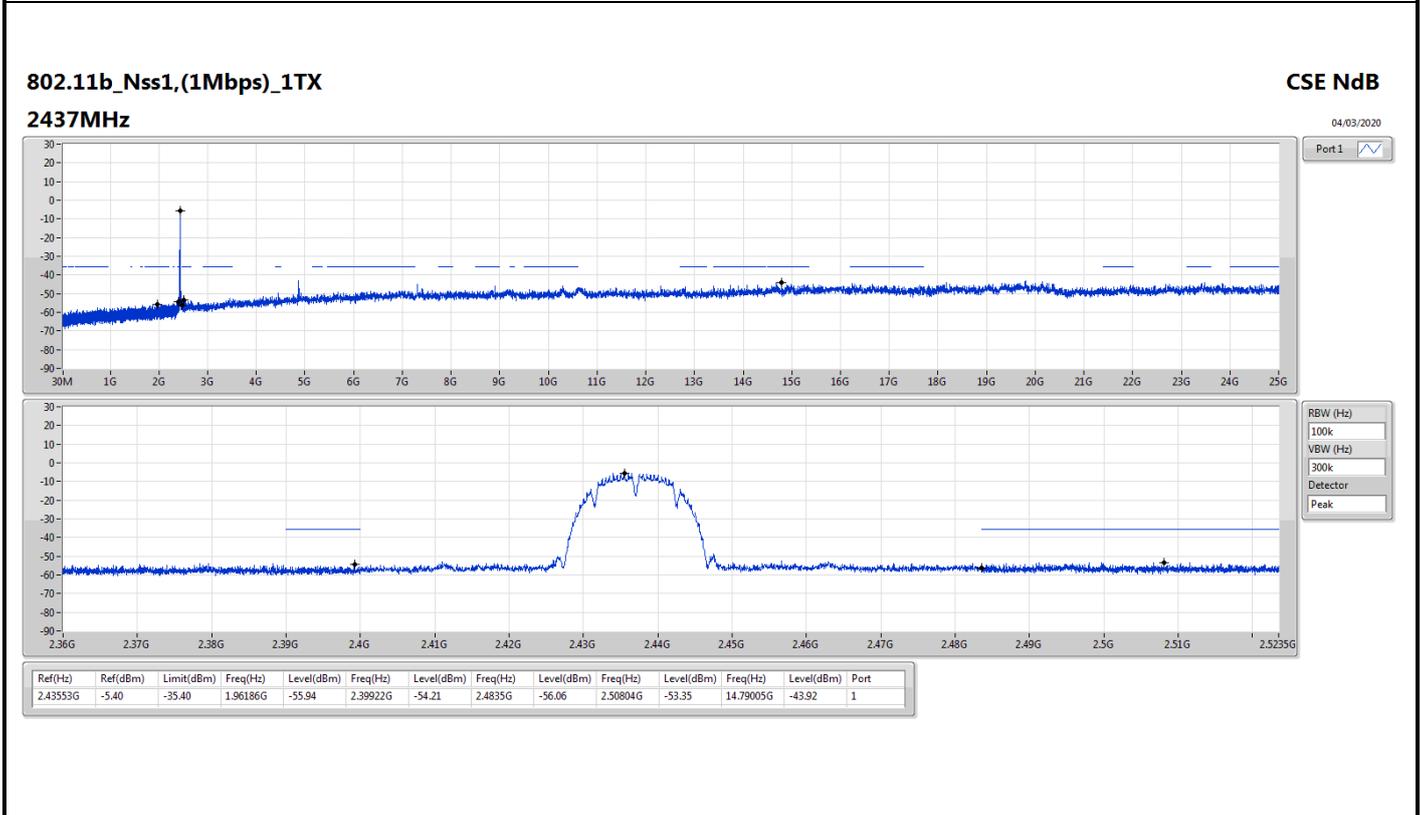
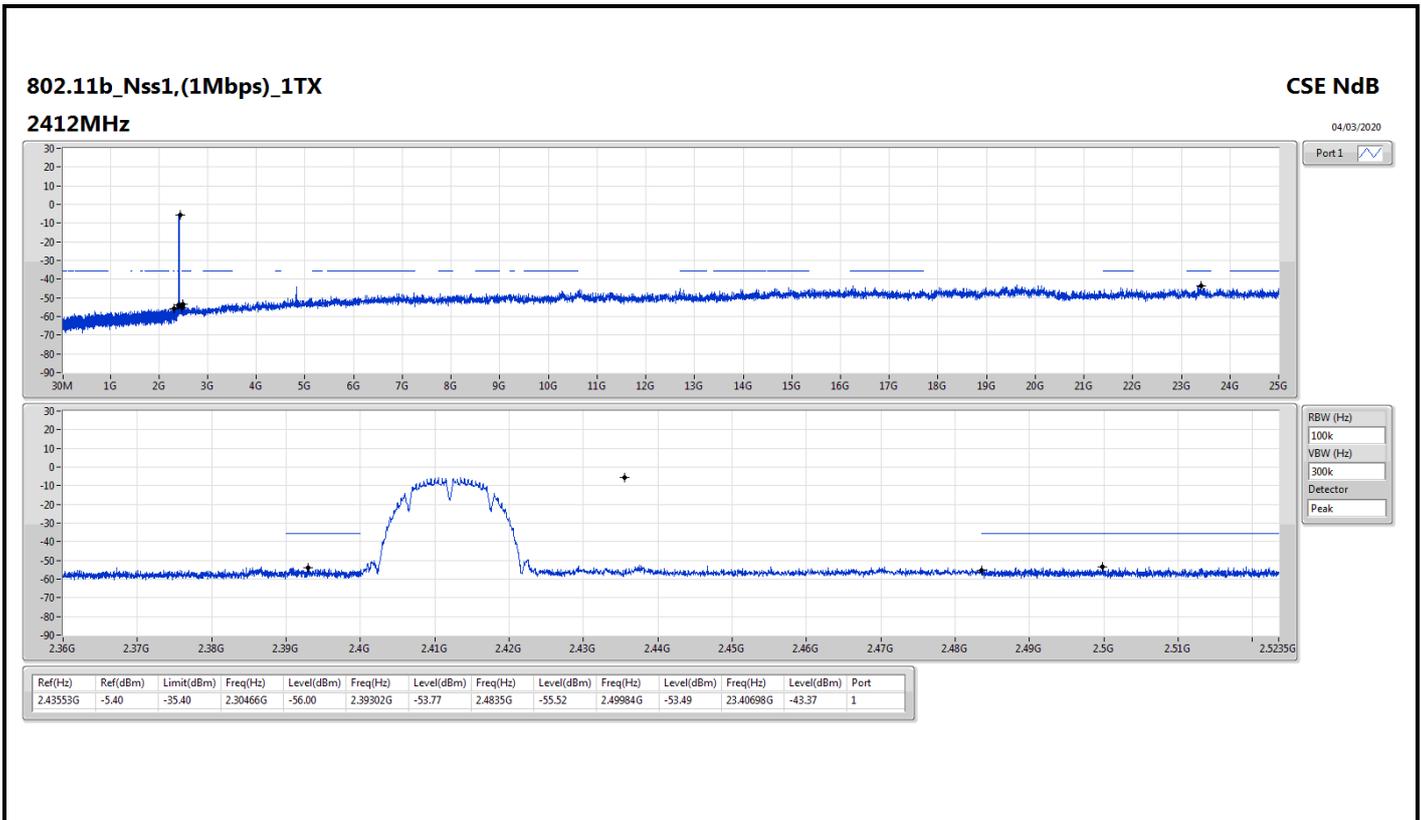
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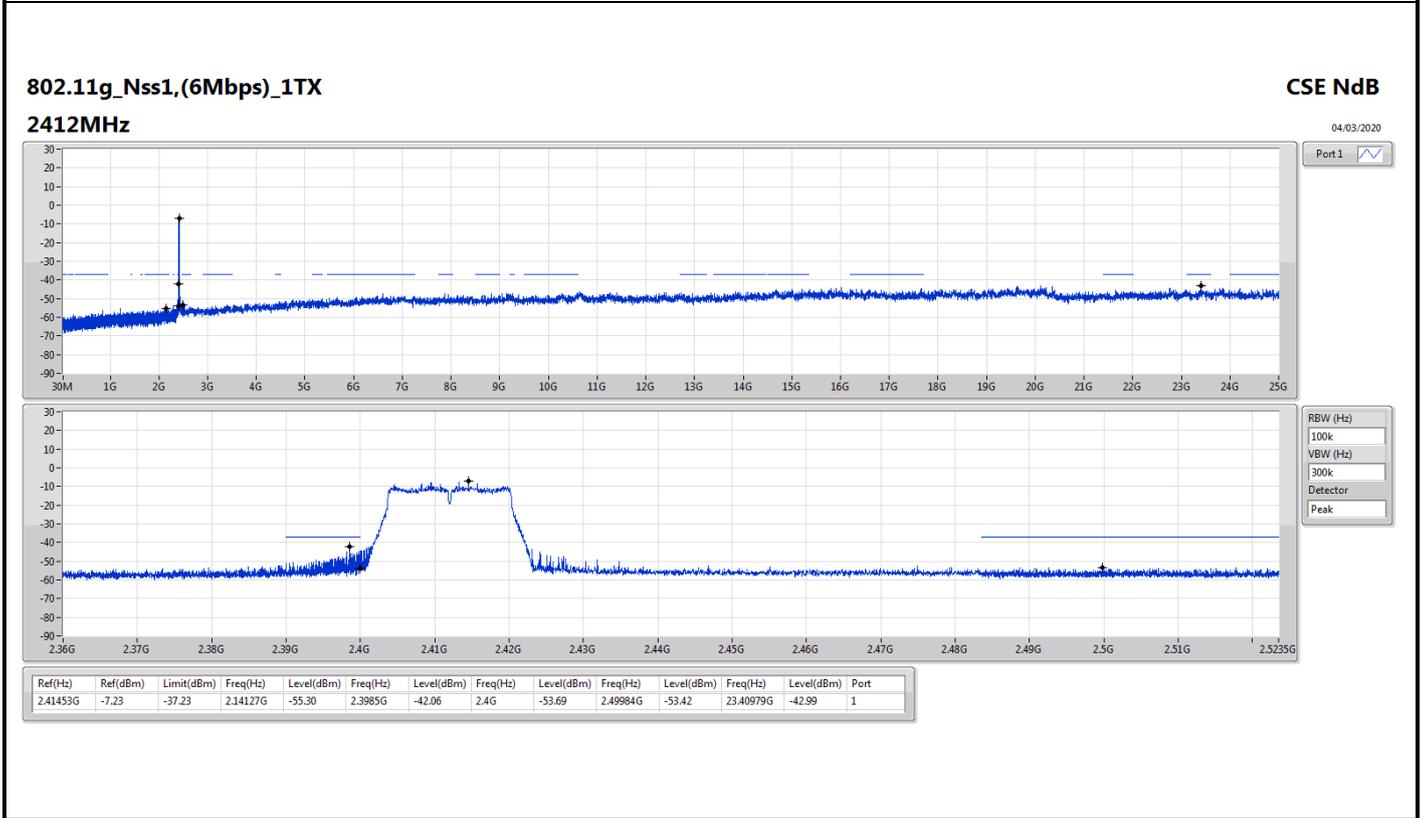
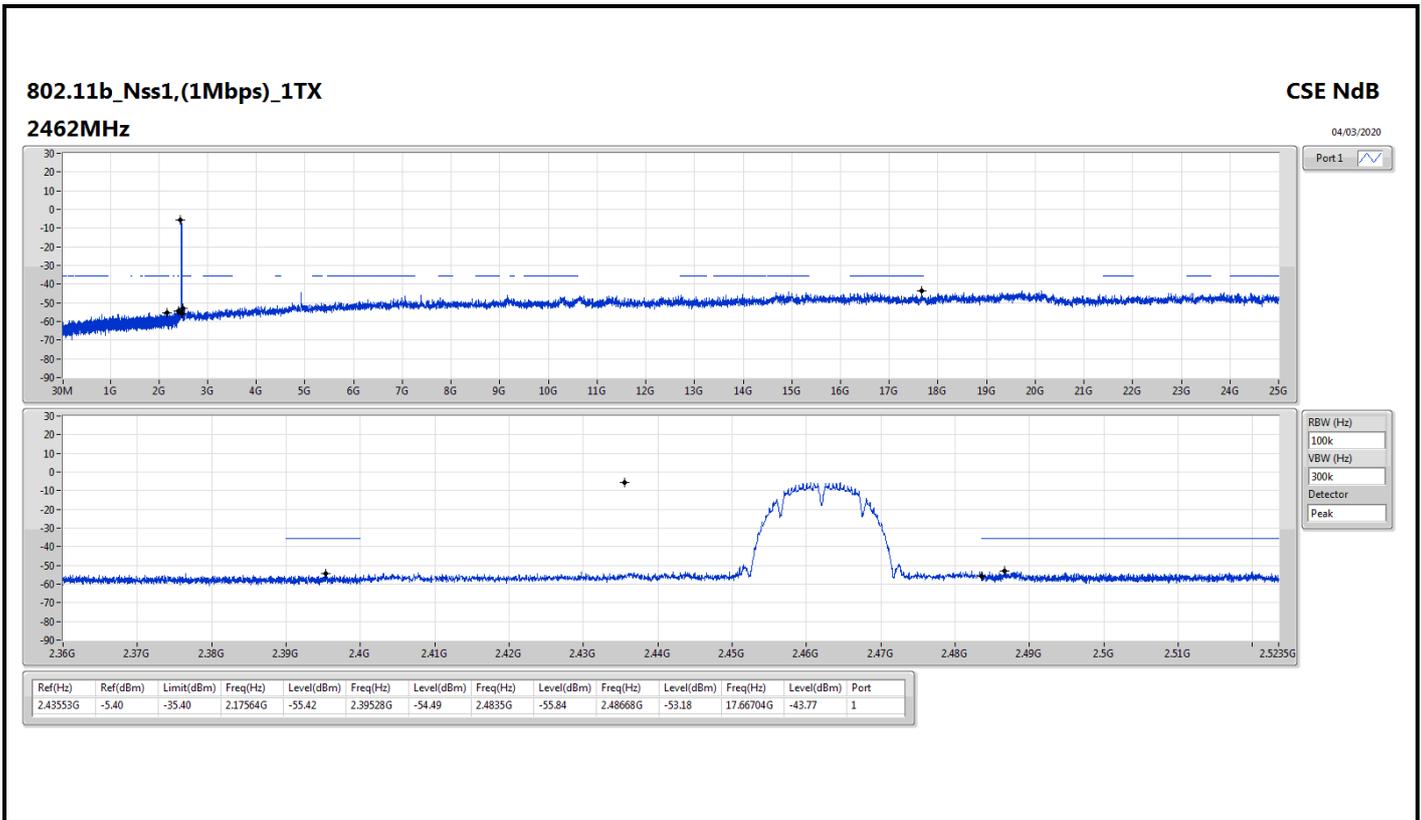
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Port								
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.43553G	-5.40	-35.40	2.17564G	-55.42	2.39528G	-54.49	2.4835G	-55.84	2.48668G	-53.18	17.66704G	-43.77	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.41453G	-7.23	-37.23	2.14127G	-55.30	2.3985G	-42.06	2.4G	-53.69	2.49984G	-53.42	23.40979G	-42.99	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.40952G	-8.10	-38.10	2.13137G	-55.53	2.3997G	-44.61	2.4G	-53.12	2.51134G	-52.25	16.84946G	-43.90	1

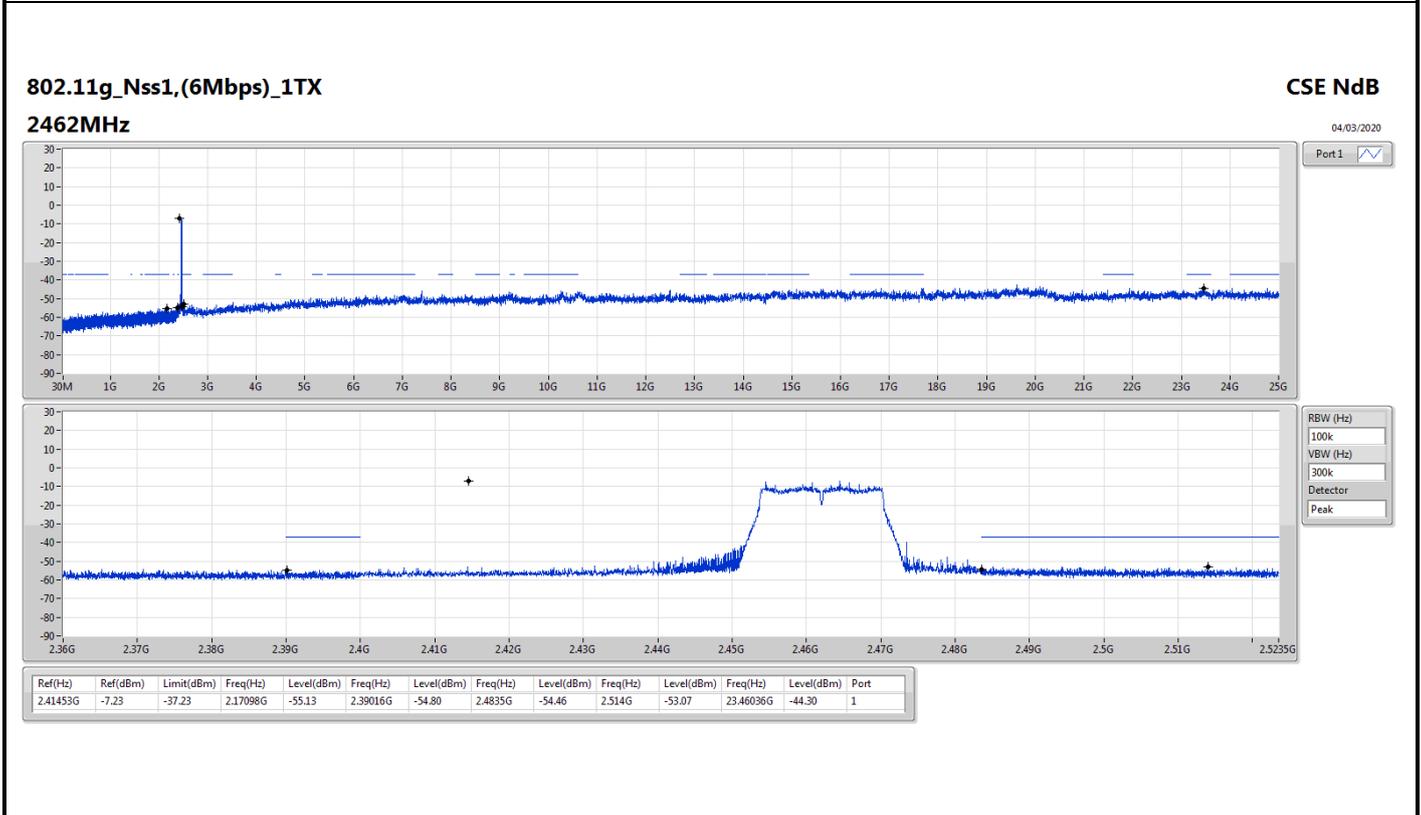
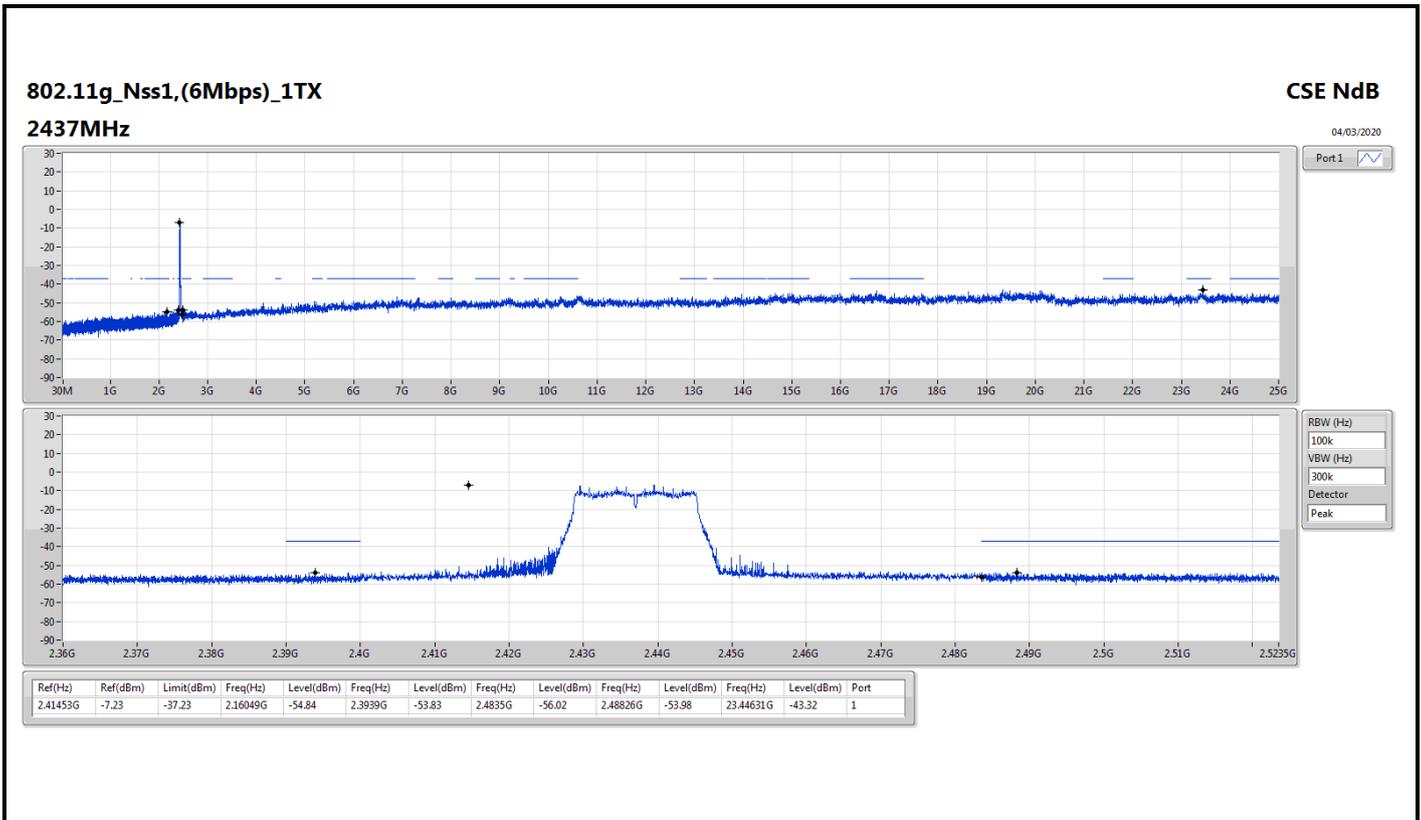


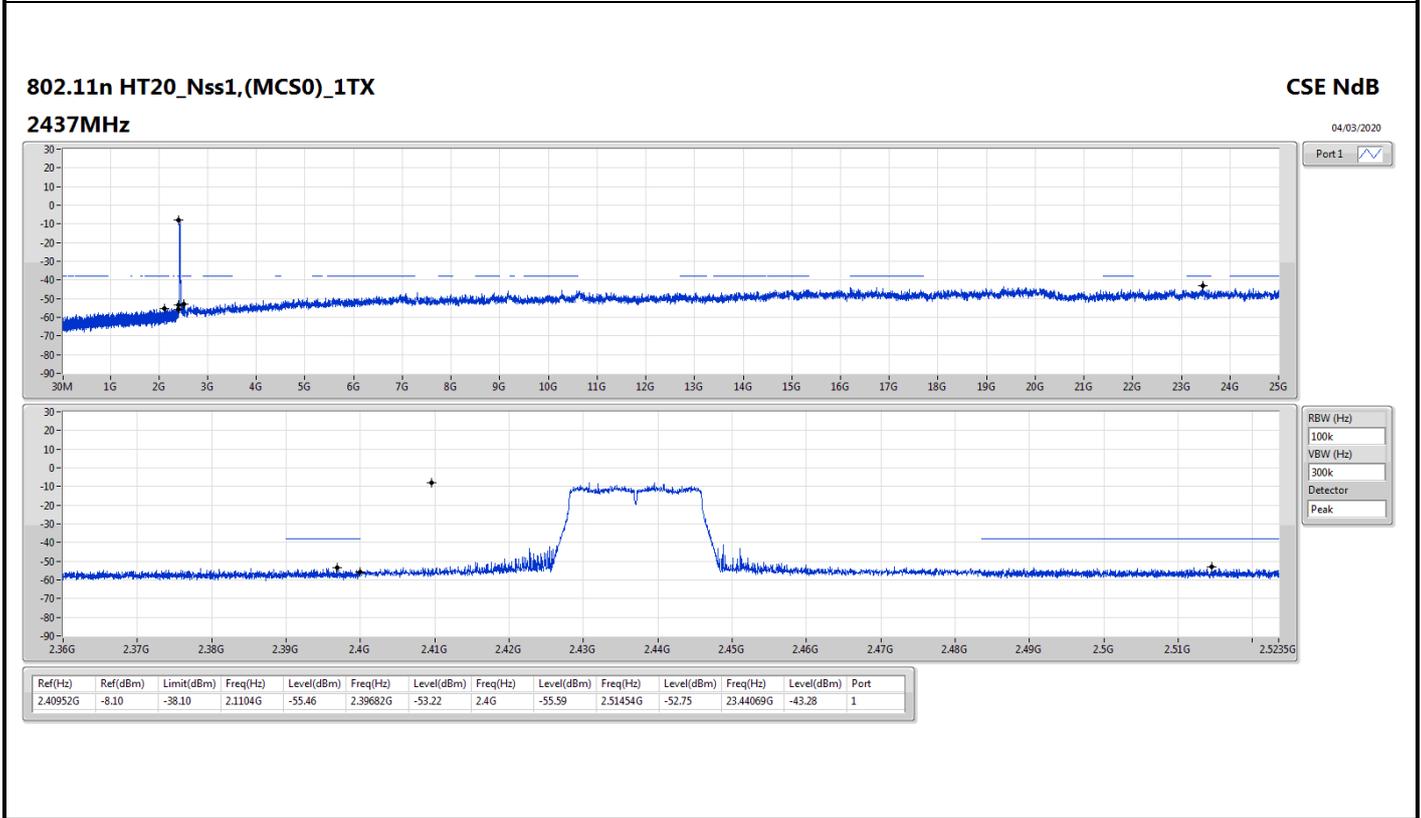
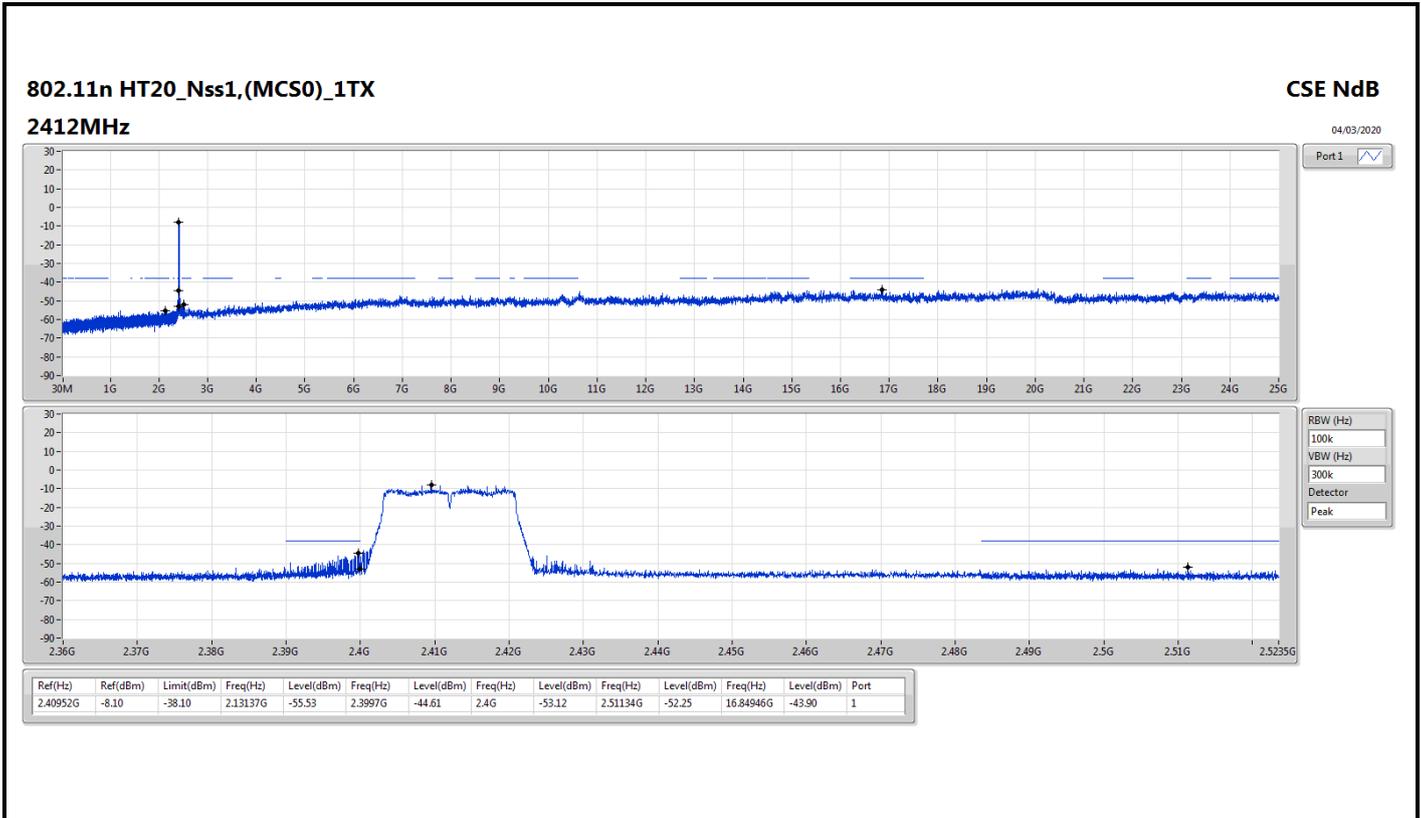
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Port								
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43553G	-5.40	-35.40	2.30466G	-56.00	2.39302G	-53.77	2.4835G	-55.52	2.49984G	-53.49	23.40698G	-43.37	1
2437MHz	Pass	2.43553G	-5.40	-35.40	1.96186G	-55.94	2.39922G	-54.21	2.4835G	-56.06	2.50804G	-53.35	14.79005G	-43.92	1
2462MHz	Pass	2.43553G	-5.40	-35.40	2.17564G	-55.42	2.39528G	-54.49	2.4835G	-55.84	2.48668G	-53.18	17.66704G	-43.77	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41453G	-7.23	-37.23	2.14127G	-55.30	2.3985G	-42.06	2.4G	-53.69	2.49984G	-53.42	23.40979G	-42.99	1
2437MHz	Pass	2.41453G	-7.23	-37.23	2.16049G	-54.84	2.3939G	-53.83	2.4835G	-56.02	2.48826G	-53.98	23.44631G	-43.32	1
2462MHz	Pass	2.41453G	-7.23	-37.23	2.17098G	-55.13	2.39016G	-54.80	2.4835G	-54.46	2.514G	-53.07	23.46036G	-44.30	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.40952G	-8.10	-38.10	2.13137G	-55.53	2.3997G	-44.61	2.4G	-53.12	2.51134G	-52.25	16.84946G	-43.90	1
2437MHz	Pass	2.40952G	-8.10	-38.10	2.1104G	-55.46	2.39682G	-53.22	2.4G	-55.59	2.51454G	-52.75	23.44069G	-43.28	1
2462MHz	Pass	2.40952G	-8.10	-38.10	1.85847G	-55.60	2.39576G	-54.55	2.4G	-56.21	2.5222G	-52.75	23.46036G	-44.54	1







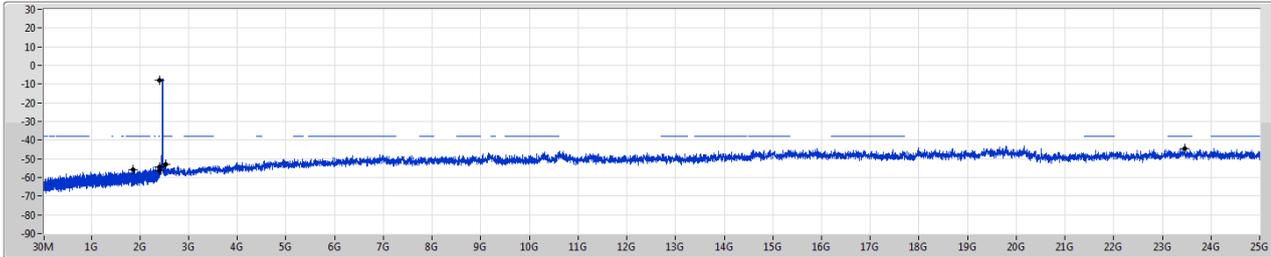


802.11n HT20_Nss1,(MCS0)_1TX

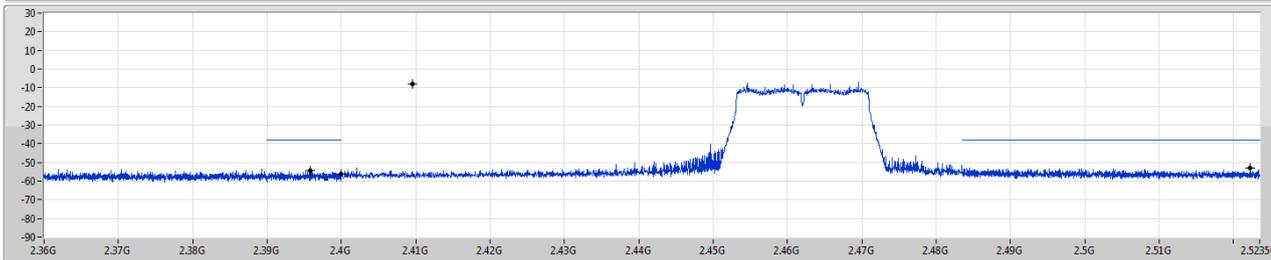
CSE NdB

2462MHz

04/03/2020



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
2.40952G	-8.10	-38.10	1.85847G	-55.60	2.39576G	-54.55	2.4G	-56.21	2.5222G	-52.75	23.46036G	-44.54	1



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	PK	227.88M	43.12	46.00	-2.88	3	Horizontal	360	1.00	-



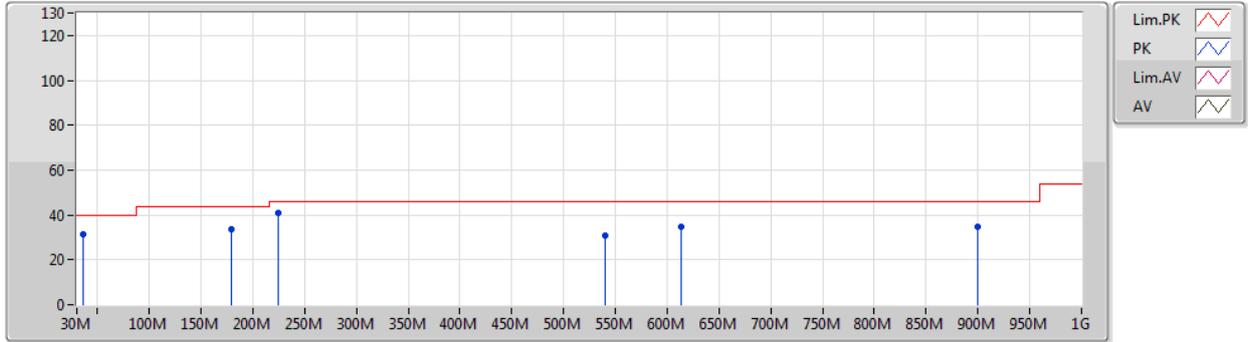
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1.(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	35.82M	31.42	40.00	-8.58	3	Vertical	0	1.00	-
2437MHz	Pass	PK	179.38M	33.75	43.50	-9.75	3	Vertical	0	1.00	-
2437MHz	Pass	PK	224M	40.78	46.00	-5.22	3	Vertical	0	1.00	-
2437MHz	Pass	PK	540.22M	30.54	46.00	-15.46	3	Vertical	0	1.00	-
2437MHz	Pass	PK	613.94M	34.93	46.00	-11.07	3	Vertical	0	1.00	-
2437MHz	Pass	PK	899.12M	34.98	46.00	-11.02	3	Vertical	0	1.00	-
2437MHz	Pass	PK	94.02M	27.07	43.50	-16.43	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	192.96M	33.90	43.50	-9.60	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	227.88M	43.12	46.00	-2.88	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	437.4M	32.23	46.00	-13.77	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	480.08M	33.51	46.00	-12.49	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	613.94M	32.89	46.00	-13.11	3	Horizontal	360	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX

21/02/2020

2437MHz_Adapter

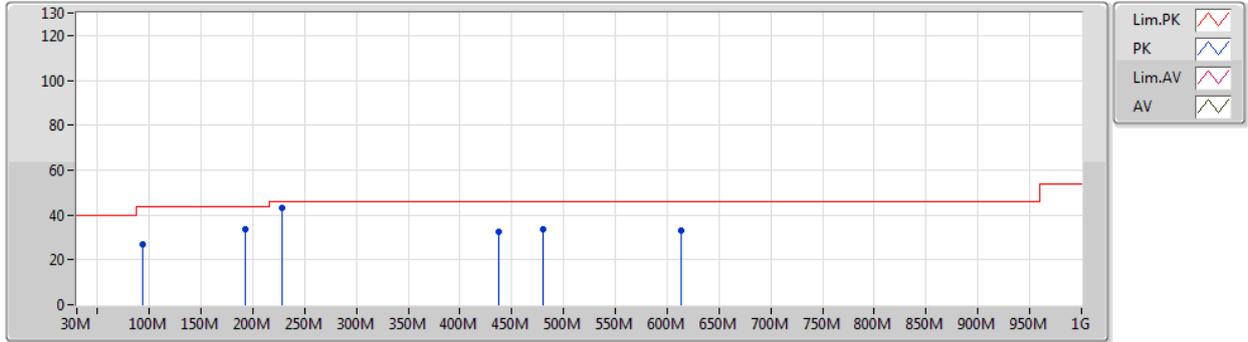


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	35.82M	31.42	40.00	-8.58	-10.14	3	Vertical	0	1.00	-	41.56	20.43	1.22	31.79
PK	179.38M	33.75	43.50	-9.75	-15.50	3	Vertical	0	1.00	-	49.25	14.22	2.00	31.72
PK	224M	40.78	46.00	-5.22	-14.73	3	Vertical	0	1.00	-	55.51	14.70	2.25	31.68
PK	540.22M	30.54	46.00	-15.46	-4.30	3	Vertical	0	1.00	-	34.84	23.65	3.44	31.39
PK	613.94M	34.93	46.00	-11.07	-3.68	3	Vertical	0	1.00	-	38.61	24.02	3.57	31.27
PK	899.12M	34.98	46.00	-11.02	0.59	3	Vertical	0	1.00	-	34.39	25.52	4.30	29.23

802.11n HT20_Nss1,(MCS0)_1TX

21/02/2020

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	94.02M	27.07	43.50	-16.43	-15.37	3	Horizontal	360	1.00	-	42.44	14.84	1.60	31.81
PK	192.96M	33.90	43.50	-9.60	-15.49	3	Horizontal	360	1.00	-	49.39	14.09	2.13	31.71
PK	227.88M	43.12	46.00	-2.88	-14.33	3	Horizontal	360	1.00	-	57.45	15.09	2.26	31.68
PK	437.4M	32.23	46.00	-13.77	-6.56	3	Horizontal	360	1.00	-	38.79	21.81	3.10	31.47
PK	480.08M	33.51	46.00	-12.49	-5.61	3	Horizontal	360	1.00	-	39.12	22.61	3.20	31.42
PK	613.94M	32.89	46.00	-13.11	-3.68	3	Horizontal	360	1.00	-	36.57	24.02	3.57	31.27



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	4.914G	53.92	54.00	-0.08	3	Vertical	48	2.05	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	4.8245G	53.63	54.00	-0.37	3	Vertical	16	1.73	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	4.87442G	53.42	54.00	-0.58	3	Vertical	52	1.93	-



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	Pass	AV	2.3636G	44.74	54.00	-9.26	3	Vertical	298	1.69	-
2412MHz	Pass	AV	2.4138G	89.31	Inf	-Inf	3	Vertical	298	1.69	-
2412MHz	Pass	PK	2.3666G	56.55	74.00	-17.45	3	Vertical	298	1.69	-
2412MHz	Pass	PK	2.413G	93.06	Inf	-Inf	3	Vertical	298	1.69	-
2412MHz	Pass	AV	2.3646G	44.71	54.00	-9.29	3	Horizontal	34	1.12	-
2412MHz	Pass	AV	2.4138G	92.65	Inf	-Inf	3	Horizontal	34	1.12	-
2412MHz	Pass	PK	2.3656G	56.77	74.00	-17.23	3	Horizontal	34	1.12	-
2412MHz	Pass	PK	2.413G	96.46	Inf	-Inf	3	Horizontal	34	1.12	-
2412MHz	Pass	AV	4.82401G	53.72	54.00	-0.28	3	Vertical	15	1.72	-
2412MHz	Pass	PK	4.82406G	56.31	74.00	-17.69	3	Vertical	15	1.72	-
2412MHz	Pass	AV	4.824G	46.62	54.00	-7.38	3	Horizontal	11	1.83	-
2412MHz	Pass	PK	4.82397G	51.18	74.00	-22.82	3	Horizontal	11	1.83	-
2437MHz	Pass	AV	2.3374G	44.87	54.00	-9.13	3	Vertical	293	1.50	-
2437MHz	Pass	AV	2.4354G	87.79	Inf	-Inf	3	Vertical	293	1.50	-
2437MHz	Pass	AV	2.4874G	44.46	54.00	-9.54	3	Vertical	293	1.50	-
2437MHz	Pass	PK	2.3826G	56.65	74.00	-17.35	3	Vertical	293	1.50	-
2437MHz	Pass	PK	2.4362G	91.52	Inf	-Inf	3	Vertical	293	1.50	-
2437MHz	Pass	PK	2.4858G	55.86	74.00	-18.14	3	Vertical	293	1.50	-
2437MHz	Pass	AV	2.3378G	44.92	54.00	-9.08	3	Horizontal	0	1.17	-
2437MHz	Pass	AV	2.4354G	92.94	Inf	-Inf	3	Horizontal	0	1.17	-
2437MHz	Pass	AV	2.4846G	44.74	54.00	-9.26	3	Horizontal	0	1.17	-
2437MHz	Pass	PK	2.3666G	57.02	74.00	-16.98	3	Horizontal	0	1.17	-
2437MHz	Pass	PK	2.4362G	96.75	Inf	-Inf	3	Horizontal	0	1.17	-
2437MHz	Pass	PK	2.4846G	56.59	74.00	-17.41	3	Horizontal	0	1.17	-
2437MHz	Pass	AV	4.874G	53.87	54.00	-0.13	3	Vertical	50	1.84	-
2437MHz	Pass	AV	7.31316G	37.98	54.00	-16.02	3	Vertical	327	2.78	-
2437MHz	Pass	PK	4.87407G	56.43	74.00	-17.57	3	Vertical	50	1.84	-
2437MHz	Pass	PK	7.31358G	51.23	74.00	-22.77	3	Vertical	327	2.78	-
2437MHz	Pass	AV	4.87402G	48.11	54.00	-5.89	3	Horizontal	76	1.88	-
2437MHz	Pass	AV	7.31424G	37.88	54.00	-16.12	3	Horizontal	62	1.50	-
2437MHz	Pass	PK	4.87413G	51.90	74.00	-22.10	3	Horizontal	76	1.88	-
2437MHz	Pass	PK	7.31202G	50.85	74.00	-23.15	3	Horizontal	62	1.50	-
2457MHz	Pass	AV	2.4552G	84.55	Inf	-Inf	3	Vertical	293	1.46	-
2457MHz	Pass	AV	2.4844G	44.28	54.00	-9.72	3	Vertical	293	1.46	-
2457MHz	Pass	PK	2.456G	88.76	Inf	-Inf	3	Vertical	293	1.46	-
2457MHz	Pass	PK	2.4844G	56.40	74.00	-17.60	3	Vertical	293	1.46	-
2457MHz	Pass	AV	2.4552G	91.15	Inf	-Inf	3	Horizontal	0	1.09	-
2457MHz	Pass	AV	2.4918G	44.61	54.00	-9.39	3	Horizontal	0	1.09	-
2457MHz	Pass	PK	2.456G	95.38	Inf	-Inf	3	Horizontal	0	1.09	-
2457MHz	Pass	PK	2.4908G	56.38	74.00	-17.62	3	Horizontal	0	1.09	-
2457MHz	Pass	AV	4.914G	53.92	54.00	-0.08	3	Vertical	48	2.05	-
2457MHz	Pass	AV	7.37316G	37.68	54.00	-16.32	3	Vertical	45	2.94	-
2457MHz	Pass	PK	4.914G	56.61	74.00	-17.39	3	Vertical	48	2.05	-
2457MHz	Pass	PK	7.36686G	51.12	74.00	-22.88	3	Vertical	45	2.94	-
2457MHz	Pass	AV	4.914G	47.67	54.00	-6.33	3	Horizontal	76	1.57	-
2457MHz	Pass	AV	7.37352G	37.38	54.00	-16.62	3	Horizontal	77	1.56	-
2457MHz	Pass	PK	4.91396G	51.88	74.00	-22.12	3	Horizontal	76	1.57	-

Remark :

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



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2457MHz	Pass	PK	7.37334G	51.92	74.00	-22.08	3	Horizontal	77	1.56	-
2462MHz	Pass	AV	2.4638G	85.13	Inf	-Inf	3	Vertical	141	1.54	-
2462MHz	Pass	AV	2.4838G	44.50	54.00	-9.50	3	Vertical	141	1.54	-
2462MHz	Pass	PK	2.463G	89.02	Inf	-Inf	3	Vertical	141	1.54	-
2462MHz	Pass	PK	2.4902G	56.38	74.00	-17.62	3	Vertical	141	1.54	-
2462MHz	Pass	AV	2.4638G	91.54	Inf	-Inf	3	Horizontal	360	1.00	-
2462MHz	Pass	AV	2.4858G	44.75	54.00	-9.25	3	Horizontal	360	1.00	-
2462MHz	Pass	PK	2.463G	95.41	Inf	-Inf	3	Horizontal	360	1.00	-
2462MHz	Pass	PK	2.4906G	56.39	74.00	-17.61	3	Horizontal	360	1.00	-
2462MHz	Pass	AV	4.924G	53.75	54.00	-0.25	3	Vertical	53	1.92	-
2462MHz	Pass	AV	7.38522G	37.64	54.00	-16.36	3	Vertical	46	2.66	-
2462MHz	Pass	PK	4.92406G	56.41	74.00	-17.59	3	Vertical	53	1.92	-
2462MHz	Pass	PK	7.38258G	50.86	74.00	-23.14	3	Vertical	46	2.66	-
2462MHz	Pass	AV	4.92401G	47.62	54.00	-6.38	3	Horizontal	73	1.71	-
2462MHz	Pass	AV	7.3842G	37.23	54.00	-16.77	3	Horizontal	355	1.50	-
2462MHz	Pass	PK	4.92406G	52.15	74.00	-21.85	3	Horizontal	73	1.71	-
2462MHz	Pass	PK	7.37544G	51.25	74.00	-22.75	3	Horizontal	355	1.50	-
802.11g_Nss1_(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	45.73	54.00	-8.27	3	Vertical	296	1.49	-
2412MHz	Pass	AV	2.41G	90.58	Inf	-Inf	3	Vertical	296	1.49	-
2412MHz	Pass	PK	2.39G	63.51	74.00	-10.49	3	Vertical	296	1.49	-
2412MHz	Pass	PK	2.4144G	100.81	Inf	-Inf	3	Vertical	296	1.49	-
2412MHz	Pass	AV	2.3898G	46.25	54.00	-7.75	3	Horizontal	0	1.08	-
2412MHz	Pass	AV	2.4146G	95.07	Inf	-Inf	3	Horizontal	0	1.08	-
2412MHz	Pass	PK	2.3894G	66.18	74.00	-7.82	3	Horizontal	0	1.08	-
2412MHz	Pass	PK	2.4144G	104.86	Inf	-Inf	3	Horizontal	0	1.08	-
2412MHz	Pass	AV	4.8245G	53.63	54.00	-0.37	3	Vertical	16	1.73	-
2412MHz	Pass	PK	4.8233G	67.78	74.00	-6.22	3	Vertical	16	1.73	-
2412MHz	Pass	AV	4.8236G	46.69	54.00	-7.31	3	Horizontal	11	1.96	-
2412MHz	Pass	PK	4.8231G	60.77	74.00	-13.23	3	Horizontal	11	1.96	-
2437MHz	Pass	AV	2.3458G	45.10	54.00	-8.90	3	Vertical	294	1.50	-
2437MHz	Pass	AV	2.4294G	88.05	Inf	-Inf	3	Vertical	294	1.50	-
2437MHz	Pass	AV	2.4878G	44.82	54.00	-9.18	3	Vertical	294	1.50	-
2437MHz	Pass	PK	2.357G	56.92	74.00	-17.08	3	Vertical	294	1.50	-
2437MHz	Pass	PK	2.4334G	97.89	Inf	-Inf	3	Vertical	294	1.50	-
2437MHz	Pass	PK	2.4882G	56.38	74.00	-17.62	3	Vertical	294	1.50	-
2437MHz	Pass	AV	2.3402G	45.23	54.00	-8.77	3	Horizontal	0	1.05	-
2437MHz	Pass	AV	2.445G	93.50	Inf	-Inf	3	Horizontal	0	1.05	-
2437MHz	Pass	AV	2.4946G	45.02	54.00	-8.98	3	Horizontal	0	1.05	-
2437MHz	Pass	PK	2.3846G	56.82	74.00	-17.18	3	Horizontal	0	1.05	-
2437MHz	Pass	PK	2.4446G	102.63	Inf	-Inf	3	Horizontal	0	1.05	-
2437MHz	Pass	PK	2.487G	56.90	74.00	-17.10	3	Horizontal	0	1.05	-
2437MHz	Pass	AV	4.8746G	52.19	54.00	-1.81	3	Vertical	53	1.93	-
2437MHz	Pass	AV	7.31628G	38.75	54.00	-15.25	3	Vertical	37	2.16	-
2437MHz	Pass	PK	4.8731G	66.96	74.00	-7.04	3	Vertical	53	1.93	-
2437MHz	Pass	PK	7.31586G	51.58	74.00	-22.42	3	Vertical	37	2.16	-
2437MHz	Pass	AV	4.8744G	44.63	54.00	-9.37	3	Horizontal	45	1.31	-
2437MHz	Pass	AV	7.31718G	38.37	54.00	-15.63	3	Horizontal	62	1.81	-
2437MHz	Pass	PK	4.8765G	59.03	74.00	-14.97	3	Horizontal	45	1.31	-

Remark :

Page No. : F3 of F49

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



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	7.29792G	50.98	74.00	-23.02	3	Horizontal	62	1.81	-
2462MHz	Pass	AV	2.4546G	86.58	Inf	-Inf	3	Vertical	293	1.74	-
2462MHz	Pass	AV	2.4836G	44.88	54.00	-9.12	3	Vertical	293	1.74	-
2462MHz	Pass	PK	2.4546G	95.41	Inf	-Inf	3	Vertical	293	1.74	-
2462MHz	Pass	PK	2.4842G	56.25	74.00	-17.75	3	Vertical	293	1.74	-
2462MHz	Pass	AV	2.4548G	93.02	Inf	-Inf	3	Horizontal	0	1.08	-
2462MHz	Pass	AV	2.4835G	45.85	54.00	-8.15	3	Horizontal	0	1.08	-
2462MHz	Pass	PK	2.4644G	102.25	Inf	-Inf	3	Horizontal	0	1.08	-
2462MHz	Pass	PK	2.4838G	62.89	74.00	-11.11	3	Horizontal	0	1.08	-
2462MHz	Pass	AV	4.9236G	53.50	54.00	-0.50	3	Vertical	47	1.90	-
2462MHz	Pass	AV	7.37496G	38.65	54.00	-15.35	3	Vertical	42	1.69	-
2462MHz	Pass	PK	4.9234G	68.20	74.00	-5.80	3	Vertical	47	1.90	-
2462MHz	Pass	PK	7.37238G	52.05	74.00	-21.95	3	Vertical	42	1.69	-
2462MHz	Pass	AV	4.9234G	46.76	54.00	-7.24	3	Horizontal	74	1.68	-
2462MHz	Pass	AV	7.38138G	38.32	54.00	-15.68	3	Horizontal	61	2.02	-
2462MHz	Pass	PK	4.92316G	61.43	74.00	-12.57	3	Horizontal	74	1.68	-
2462MHz	Pass	PK	7.3734G	51.12	74.00	-22.88	3	Horizontal	61	2.02	-
802.11n HT20_Nss1.(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3884G	45.66	54.00	-8.34	3	Vertical	297	1.72	-
2412MHz	Pass	AV	2.4146G	89.23	Inf	-Inf	3	Vertical	297	1.72	-
2412MHz	Pass	PK	2.3898G	63.49	74.00	-10.51	3	Vertical	297	1.72	-
2412MHz	Pass	PK	2.4144G	101.10	Inf	-Inf	3	Vertical	297	1.72	-
2412MHz	Pass	AV	2.39G	46.10	54.00	-7.90	3	Horizontal	3	1.07	-
2412MHz	Pass	AV	2.4198G	93.68	Inf	-Inf	3	Horizontal	3	1.07	-
2412MHz	Pass	PK	2.3872G	65.91	74.00	-8.09	3	Horizontal	3	1.07	-
2412MHz	Pass	PK	2.4096G	104.95	Inf	-Inf	3	Horizontal	3	1.07	-
2412MHz	Pass	AV	4.8242G	52.62	54.00	-1.38	3	Vertical	16	1.72	-
2412MHz	Pass	PK	4.8208G	69.54	74.00	-4.46	3	Vertical	16	1.72	-
2412MHz	Pass	AV	4.8246G	45.81	54.00	-8.19	3	Horizontal	28	1.67	-
2412MHz	Pass	PK	4.8211G	61.52	74.00	-12.48	3	Horizontal	28	1.67	-
2437MHz	Pass	AV	2.337G	44.67	54.00	-9.33	3	Vertical	295	1.50	-
2437MHz	Pass	AV	2.429G	87.88	Inf	-Inf	3	Vertical	295	1.50	-
2437MHz	Pass	AV	2.4835G	44.31	54.00	-9.69	3	Vertical	295	1.50	-
2437MHz	Pass	PK	2.3898G	57.26	74.00	-16.74	3	Vertical	295	1.50	-
2437MHz	Pass	PK	2.4298G	98.58	Inf	-Inf	3	Vertical	295	1.50	-
2437MHz	Pass	PK	2.4846G	55.98	74.00	-18.02	3	Vertical	295	1.50	-
2437MHz	Pass	AV	2.337G	44.67	54.00	-9.33	3	Horizontal	0	1.05	-
2437MHz	Pass	AV	2.4446G	93.30	Inf	-Inf	3	Horizontal	0	1.05	-
2437MHz	Pass	AV	2.4835G	44.64	54.00	-9.36	3	Horizontal	0	1.05	-
2437MHz	Pass	PK	2.3854G	57.44	74.00	-16.56	3	Horizontal	0	1.05	-
2437MHz	Pass	PK	2.4438G	104.06	Inf	-Inf	3	Horizontal	0	1.05	-
2437MHz	Pass	PK	2.4886G	57.28	74.00	-16.72	3	Horizontal	0	1.05	-
2437MHz	Pass	AV	4.87442G	53.42	54.00	-0.58	3	Vertical	52	1.93	-
2437MHz	Pass	AV	7.31478G	38.16	54.00	-15.84	3	Vertical	360	2.70	-
2437MHz	Pass	PK	4.87064G	70.91	74.00	-3.09	3	Vertical	52	1.93	-
2437MHz	Pass	PK	7.31352G	52.20	74.00	-21.80	3	Vertical	360	2.70	-
2437MHz	Pass	AV	4.8744G	47.04	54.00	-6.96	3	Horizontal	48	1.18	-
2437MHz	Pass	AV	7.3173G	37.83	54.00	-16.17	3	Horizontal	80	1.83	-
2437MHz	Pass	PK	4.8746G	63.11	74.00	-10.89	3	Horizontal	48	1.18	-

Remark :

Page No. : F4 of F49

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

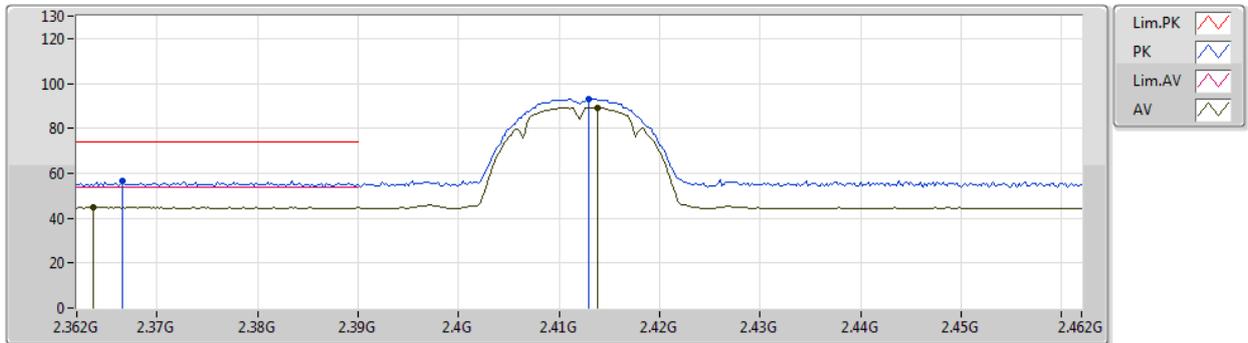


Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	7.31214G	51.44	74.00	-22.56	3	Horizontal	80	1.83	-
2457MHz	Pass	AV	2.4492G	85.59	Inf	-Inf	3	Vertical	294	1.44	-
2457MHz	Pass	AV	2.4842G	44.37	54.00	-9.63	3	Vertical	294	1.44	-
2457MHz	Pass	PK	2.4542G	96.21	Inf	-Inf	3	Vertical	294	1.44	-
2457MHz	Pass	PK	2.4918G	56.14	74.00	-17.86	3	Vertical	294	1.44	-
2457MHz	Pass	AV	2.4494G	92.21	Inf	-Inf	3	Horizontal	0	1.06	-
2457MHz	Pass	AV	2.4835G	44.90	54.00	-9.10	3	Horizontal	0	1.06	-
2457MHz	Pass	PK	2.4502G	103.35	Inf	-Inf	3	Horizontal	0	1.06	-
2457MHz	Pass	PK	2.489G	59.52	74.00	-14.48	3	Horizontal	0	1.06	-
2457MHz	Pass	AV	4.9146G	52.16	54.00	-1.84	3	Vertical	50	1.90	-
2457MHz	Pass	AV	7.35744G	37.32	54.00	-16.68	3	Vertical	145	1.92	-
2457MHz	Pass	PK	4.9103G	69.43	74.00	-4.57	3	Vertical	50	1.90	-
2457MHz	Pass	PK	7.35996G	50.76	74.00	-23.24	3	Vertical	145	1.92	-
2457MHz	Pass	AV	4.9145G	46.00	54.00	-8.00	3	Horizontal	73	1.74	-
2457MHz	Pass	AV	7.37754G	37.45	54.00	-16.55	3	Horizontal	172	1.64	-
2457MHz	Pass	PK	4.9109G	62.80	74.00	-11.20	3	Horizontal	73	1.74	-
2457MHz	Pass	PK	7.37586G	51.15	74.00	-22.85	3	Horizontal	172	1.64	-
2462MHz	Pass	AV	2.4542G	85.35	Inf	-Inf	3	Vertical	297	1.74	-
2462MHz	Pass	AV	2.4835G	44.46	54.00	-9.54	3	Vertical	297	1.74	-
2462MHz	Pass	PK	2.454G	95.86	Inf	-Inf	3	Vertical	297	1.74	-
2462MHz	Pass	PK	2.4952G	55.84	74.00	-18.16	3	Vertical	297	1.74	-
2462MHz	Pass	AV	2.4542G	91.52	Inf	-Inf	3	Horizontal	0	1.07	-
2462MHz	Pass	AV	2.4835G	45.75	54.00	-8.25	3	Horizontal	0	1.07	-
2462MHz	Pass	PK	2.4598G	102.35	Inf	-Inf	3	Horizontal	0	1.07	-
2462MHz	Pass	PK	2.4835G	64.48	74.00	-9.52	3	Horizontal	0	1.07	-
2462MHz	Pass	AV	4.9243G	52.38	54.00	-1.62	3	Vertical	45	1.91	-
2462MHz	Pass	AV	7.3803G	38.09	54.00	-15.91	3	Vertical	30	2.81	-
2462MHz	Pass	PK	4.9207G	70.41	74.00	-3.59	3	Vertical	45	1.91	-
2462MHz	Pass	PK	7.37724G	51.93	74.00	-22.07	3	Vertical	30	2.81	-
2462MHz	Pass	AV	4.9243G	46.19	54.00	-7.81	3	Horizontal	78	1.71	-
2462MHz	Pass	AV	7.3776G	37.46	54.00	-16.54	3	Horizontal	285	1.42	-
2462MHz	Pass	PK	4.9204G	64.03	74.00	-9.97	3	Horizontal	78	1.71	-
2462MHz	Pass	PK	7.38888G	51.32	74.00	-22.68	3	Horizontal	285	1.42	-

802.11b_Nss1,(1Mbps)_1TX

20/02/2020

2412MHz_TX

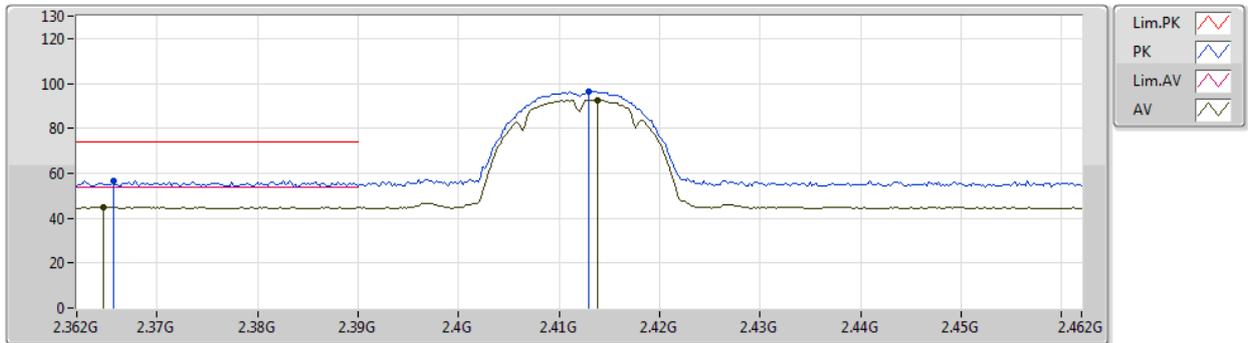


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3636G	44.74	54.00	-9.26	31.62	3	Vertical	298	1.69	-	13.12	27.65	3.97	-
AV	2.4138G	89.31	Inf	-Inf	31.49	3	Vertical	298	1.69	-	57.82	27.47	4.02	-
PK	2.3666G	56.55	74.00	-17.45	31.60	3	Vertical	298	1.69	-	24.95	27.63	3.97	-
PK	2.413G	93.06	Inf	-Inf	31.49	3	Vertical	298	1.69	-	61.57	27.47	4.02	-

802.11b_Nss1,(1Mbps)_1TX

20/02/2020

2412MHz_TX



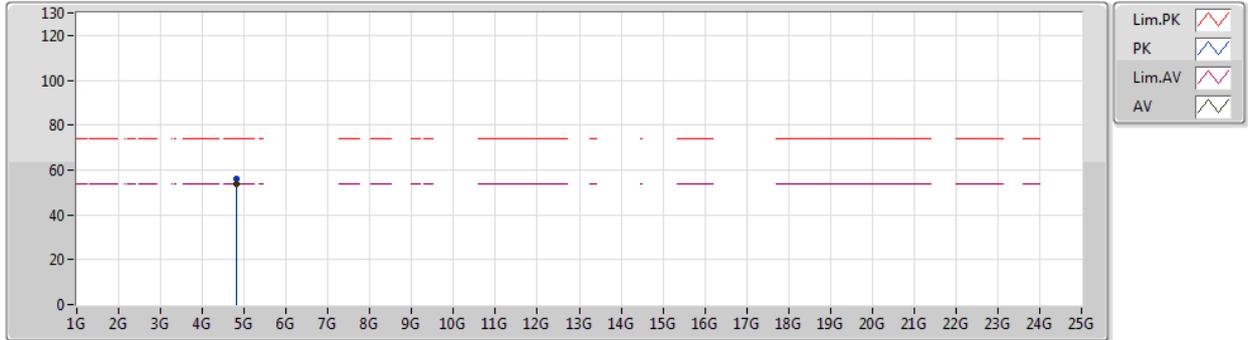
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AV	2.3646G	44.71	54.00	-9.29	31.61	3	Horizontal	34	1.12	-	13.10	27.64	3.97	-
AV	2.4138G	92.65	Inf	-Inf	31.49	3	Horizontal	34	1.12	-	61.16	27.47	4.02	-
PK	2.3656G	56.77	74.00	-17.23	31.61	3	Horizontal	34	1.12	-	25.16	27.64	3.97	-
PK	2.413G	96.46	Inf	-Inf	31.49	3	Horizontal	34	1.12	-	64.97	27.47	4.02	-



802.11b_Nss1,(1Mbps)_1TX

20/02/2020

2412MHz_TX

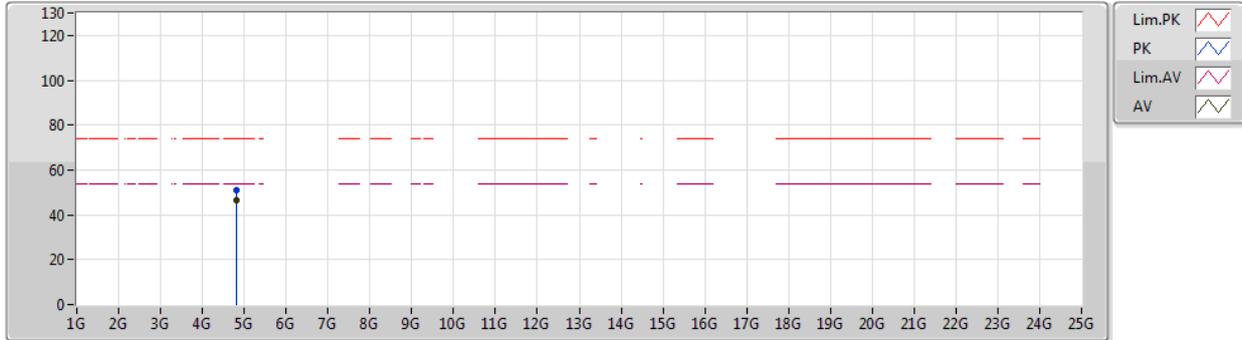


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82401G	53.72	54.00	-0.28	7.51	3	Vertical	15	1.72	-	46.21	31.12	5.79	29.40
PK	4.82406G	56.31	74.00	-17.69	7.51	3	Vertical	15	1.72	-	48.80	31.12	5.79	29.40

802.11b_Nss1,(1Mbps)_1TX

20/02/2020

2412MHz_TX

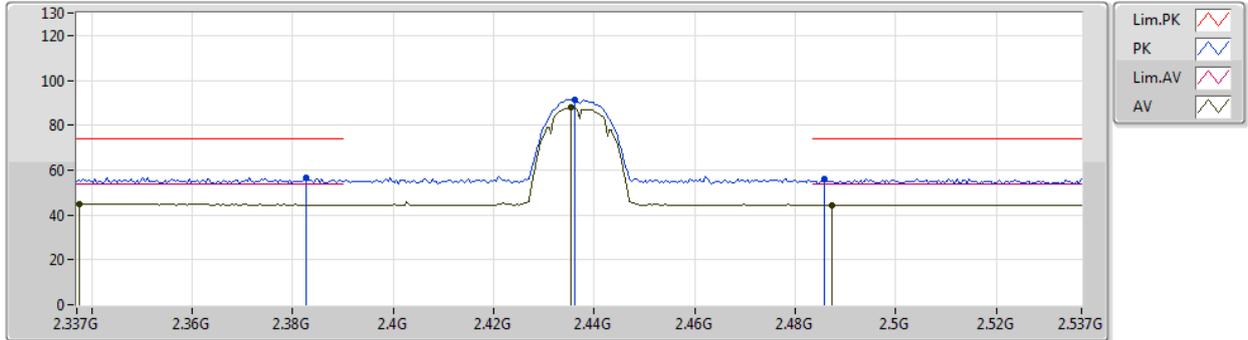


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.824G	46.62	54.00	-7.38	7.51	3	Horizontal	11	1.83	-	39.11	31.12	5.79	29.40
PK	4.82397G	51.18	74.00	-22.82	7.51	3	Horizontal	11	1.83	-	43.67	31.12	5.79	29.40

802.11b_Nss1,(1Mbps)_1TX

20/02/2020

2437MHz_TX

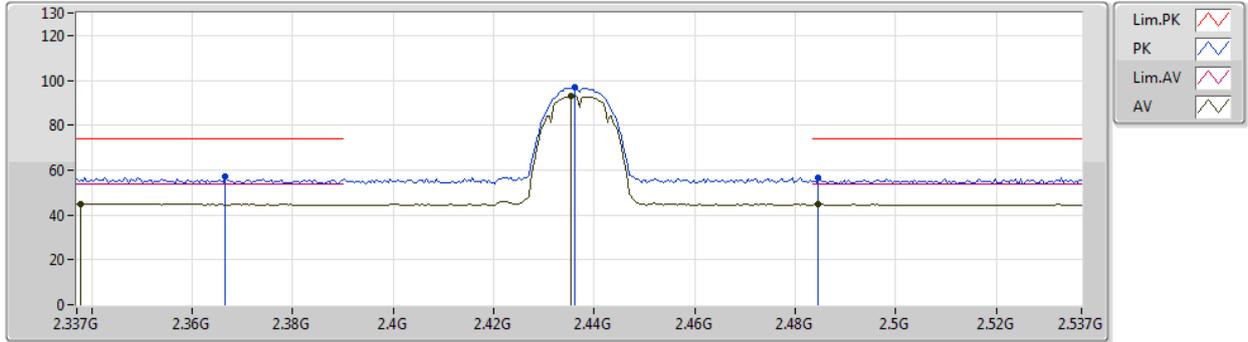


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3374G	44.87	54.00	-9.13	31.70	3	Vertical	293	1.50	-	13.17	27.75	3.95	-
AV	2.4354G	87.79	Inf	-Inf	31.47	3	Vertical	293	1.50	-	56.32	27.43	4.04	-
AV	2.4874G	44.46	54.00	-9.54	31.42	3	Vertical	293	1.50	-	13.04	27.33	4.09	-
PK	2.3826G	56.65	74.00	-17.35	31.56	3	Vertical	293	1.50	-	25.09	27.57	3.99	-
PK	2.4362G	91.52	Inf	-Inf	31.47	3	Vertical	293	1.50	-	60.05	27.43	4.04	-
PK	2.4858G	55.86	74.00	-18.14	31.42	3	Vertical	293	1.50	-	24.44	27.33	4.09	-

802.11b_Nss1,(1Mbps)_1TX

20/02/2020

2437MHz_TX

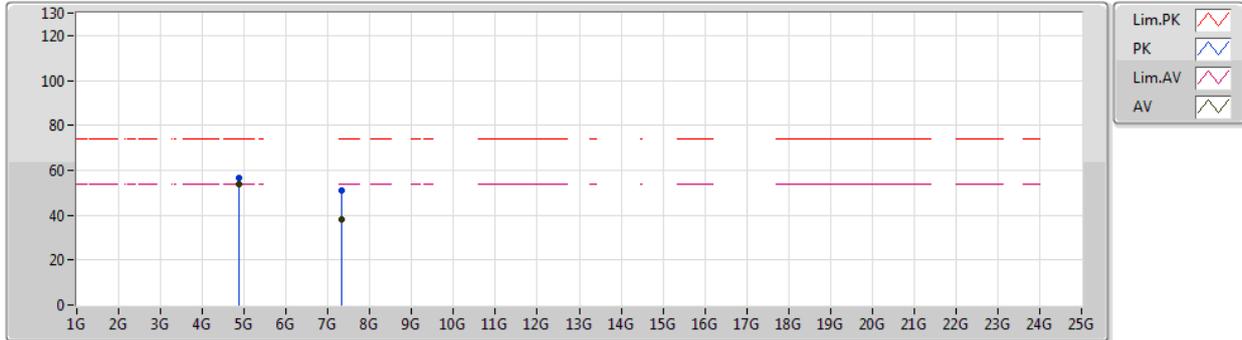


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3378G	44.92	54.00	-9.08	31.70	3	Horizontal	0	1.17	-	13.22	27.75	3.95	-
AV	2.4354G	92.94	Inf	-Inf	31.47	3	Horizontal	0	1.17	-	61.47	27.43	4.04	-
AV	2.4846G	44.74	54.00	-9.26	31.42	3	Horizontal	0	1.17	-	13.32	27.33	4.09	-
PK	2.3666G	57.02	74.00	-16.98	31.60	3	Horizontal	0	1.17	-	25.42	27.63	3.97	-
PK	2.4362G	96.75	Inf	-Inf	31.47	3	Horizontal	0	1.17	-	65.28	27.43	4.04	-
PK	2.4846G	56.59	74.00	-17.41	31.42	3	Horizontal	0	1.17	-	25.17	27.33	4.09	-

802.11b_Nss1,(1Mbps)_1TX

20/02/2020

2437MHz_TX



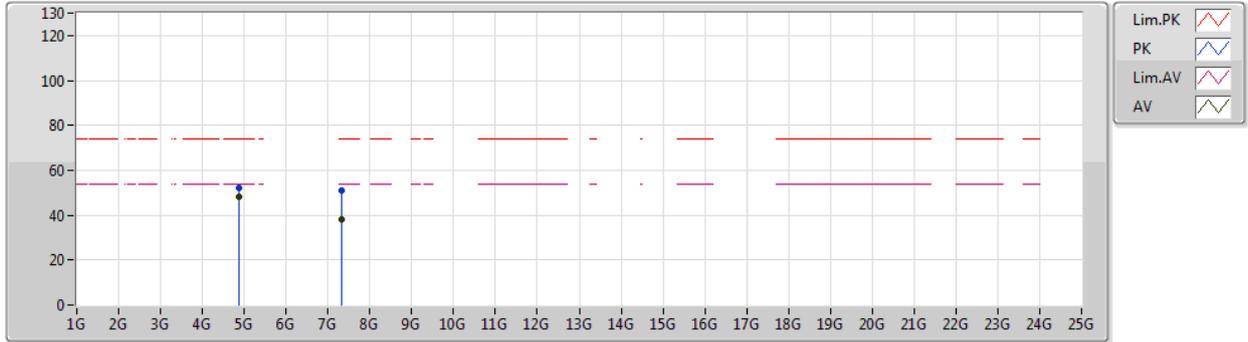
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AV	4.874G	53.87	54.00	-0.13	7.62	3	Vertical	50	1.84	-	46.25	31.17	5.83	29.38
AV	7.31316G	37.98	54.00	-16.02	13.40	3	Vertical	327	2.78	-	24.58	36.29	7.47	30.36
PK	4.87407G	56.43	74.00	-17.57	7.62	3	Vertical	50	1.84	-	48.81	31.17	5.83	29.38
PK	7.31358G	51.23	74.00	-22.77	13.40	3	Vertical	327	2.78	-	37.83	36.29	7.47	30.36



802.11b_Nss1,(1Mbps)_1TX

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2437MHz_TX

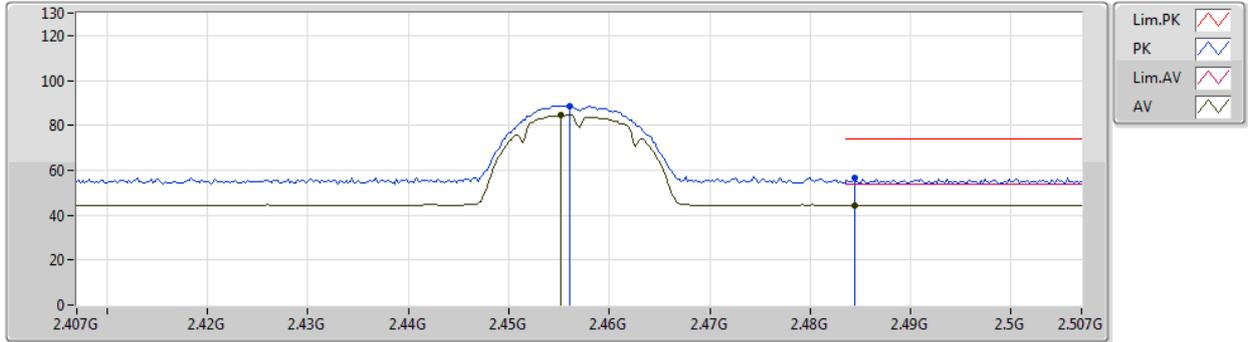


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87402G	48.11	54.00	-5.89	7.62	3	Horizontal	76	1.88	-	40.49	31.17	5.83	29.38
AV	7.31424G	37.88	54.00	-16.12	13.40	3	Horizontal	62	1.50	-	24.48	36.29	7.47	30.36
PK	4.87413G	51.90	74.00	-22.10	7.62	3	Horizontal	76	1.88	-	44.28	31.17	5.83	29.38
PK	7.31202G	50.85	74.00	-23.15	13.41	3	Horizontal	62	1.50	-	37.44	36.29	7.48	30.36

802.11b_Nss1,(1Mbps)_1TX

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2457MHz_TX

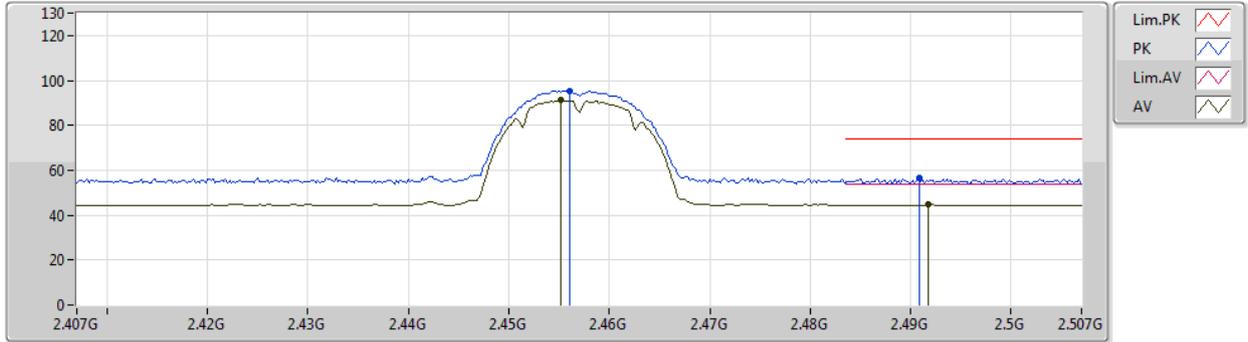


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4552G	84.55	Inf	-Inf	31.45	3	Vertical	293	1.46	-	53.10	27.39	4.06	-
AV	2.4844G	44.28	54.00	-9.72	31.42	3	Vertical	293	1.46	-	12.86	27.33	4.09	-
PK	2.456G	88.76	Inf	-Inf	31.45	3	Vertical	293	1.46	-	57.31	27.39	4.06	-
PK	2.4844G	56.40	74.00	-17.60	31.42	3	Vertical	293	1.46	-	24.98	27.33	4.09	-

802.11b_Nss1,(1Mbps)_1TX

20/02/2020

2457MHz_TX

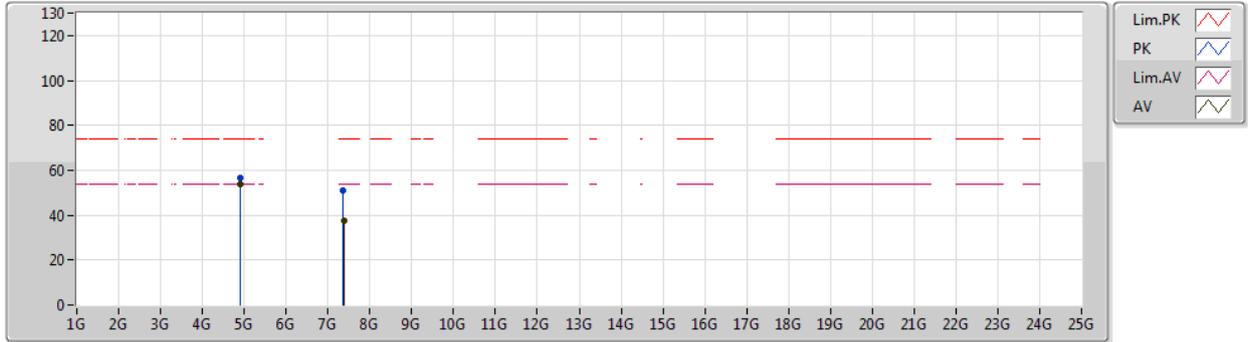


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4552G	91.15	Inf	-Inf	31.45	3	Horizontal	0	1.09	-	59.70	27.39	4.06	-
AV	2.4918G	44.61	54.00	-9.39	31.41	3	Horizontal	0	1.09	-	13.20	27.32	4.09	-
PK	2.456G	95.38	Inf	-Inf	31.45	3	Horizontal	0	1.09	-	63.93	27.39	4.06	-
PK	2.4908G	56.38	74.00	-17.62	31.41	3	Horizontal	0	1.09	-	24.97	27.32	4.09	-

802.11b_Nss1,(1Mbps)_1TX

20/02/2020

2457MHz_TX



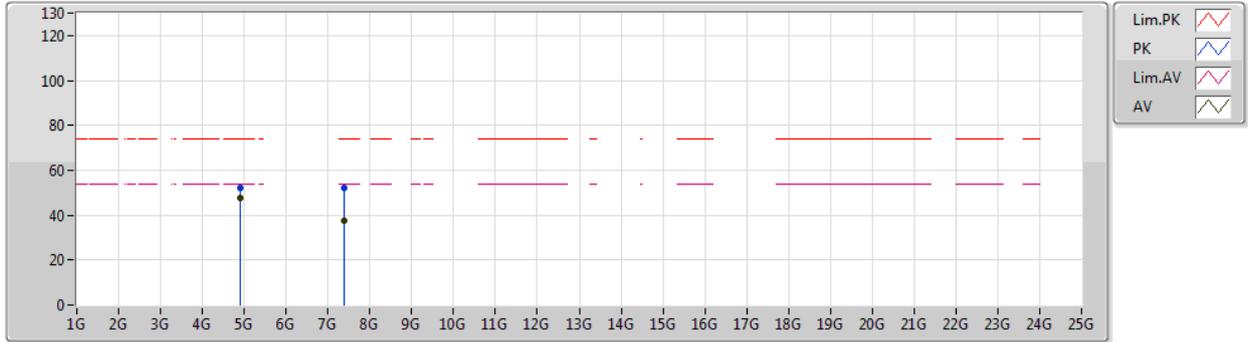
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.914G	53.92	54.00	-0.08	7.74	3	Vertical	48	2.05	-	46.18	31.24	5.86	29.36
AV	7.37316G	37.68	54.00	-16.32	13.18	3	Vertical	45	2.94	-	24.50	36.23	7.36	30.41
PK	4.914G	56.61	74.00	-17.39	7.74	3	Vertical	48	2.05	-	48.87	31.24	5.86	29.36
PK	7.36686G	51.12	74.00	-22.88	13.19	3	Vertical	45	2.94	-	37.93	36.23	7.37	30.41



802.11b_Nss1,(1Mbps)_1TX

20/02/2020

2457MHz_TX

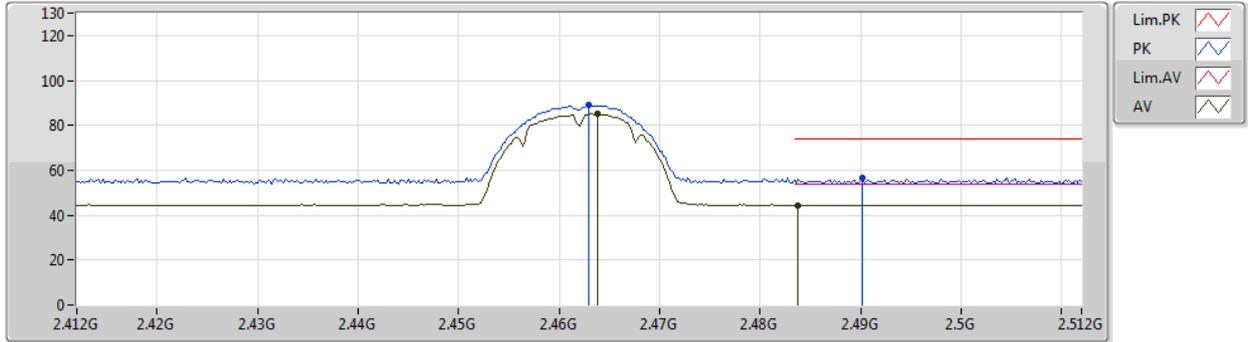


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.914G	47.67	54.00	-6.33	7.74	3	Horizontal	76	1.57	-	39.93	31.24	5.86	29.36
AV	7.37352G	37.38	54.00	-16.62	13.18	3	Horizontal	77	1.56	-	24.20	36.23	7.36	30.41
PK	4.91396G	51.88	74.00	-22.12	7.74	3	Horizontal	76	1.57	-	44.14	31.24	5.86	29.36
PK	7.37334G	51.92	74.00	-22.08	13.18	3	Horizontal	77	1.56	-	38.74	36.23	7.36	30.41

802.11b_Nss1,(1Mbps)_1TX

20/02/2020

2462MHz_TX

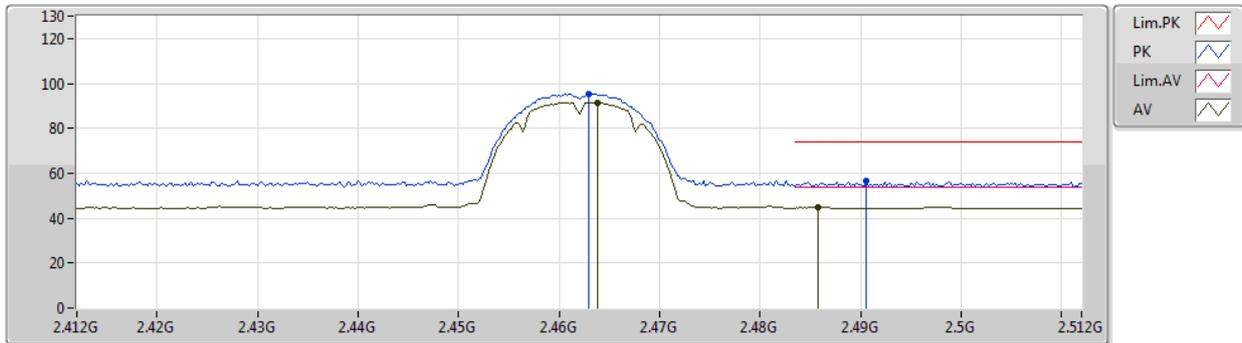


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4638G	85.13	Inf	-Inf	31.44	3	Vertical	141	1.54	-	53.69	27.37	4.07	-
AV	2.4838G	44.50	54.00	-9.50	31.41	3	Vertical	141	1.54	-	13.09	27.33	4.08	-
PK	2.463G	89.02	Inf	-Inf	31.44	3	Vertical	141	1.54	-	57.58	27.37	4.07	-
PK	2.4902G	56.38	74.00	-17.62	31.41	3	Vertical	141	1.54	-	24.97	27.32	4.09	-

802.11b_Nss1,(1Mbps)_1TX

20/02/2020

2462MHz_TX

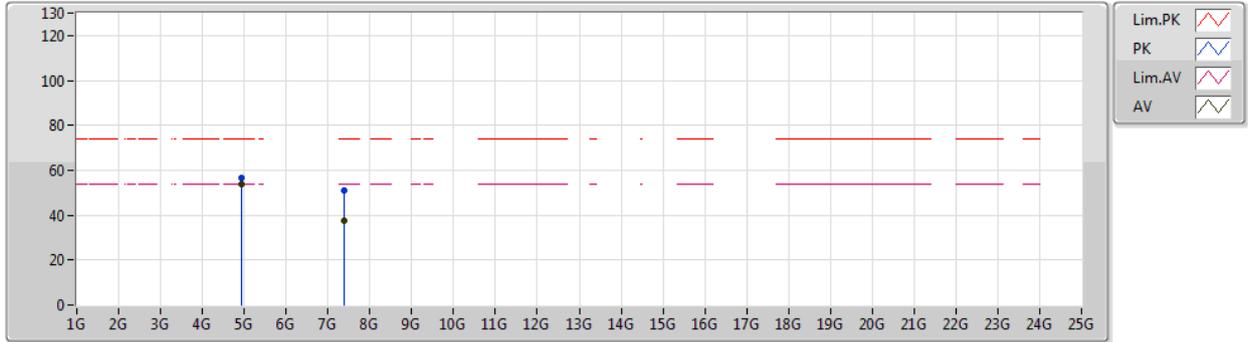


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4638G	91.54	Inf	-Inf	31.44	3	Horizontal	360	1.00	-	60.10	27.37	4.07	-
AV	2.4858G	44.75	54.00	-9.25	31.42	3	Horizontal	360	1.00	-	13.33	27.33	4.09	-
PK	2.463G	95.41	Inf	-Inf	31.44	3	Horizontal	360	1.00	-	63.97	27.37	4.07	-
PK	2.4906G	56.39	74.00	-17.61	31.41	3	Horizontal	360	1.00	-	24.98	27.32	4.09	-

802.11b_Nss1,(1Mbps)_1TX

20/02/2020

2462MHz_TX



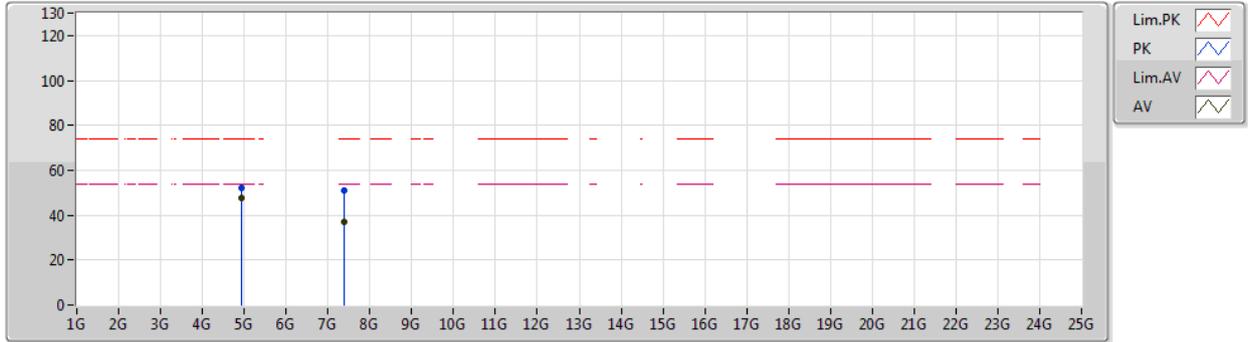
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AV	4.924G	53.75	54.00	-0.25	7.79	3	Vertical	53	1.92	-	45.96	31.27	5.87	29.35
AV	7.38522G	37.64	54.00	-16.36	13.13	3	Vertical	46	2.66	-	24.51	36.21	7.34	30.42
PK	4.92406G	56.41	74.00	-17.59	7.79	3	Vertical	53	1.92	-	48.62	31.27	5.87	29.35
PK	7.38258G	50.86	74.00	-23.14	13.15	3	Vertical	46	2.66	-	37.71	36.22	7.35	30.42



802.11b_Nss1,(1Mbps)_1TX

20/02/2020

2462MHz_TX

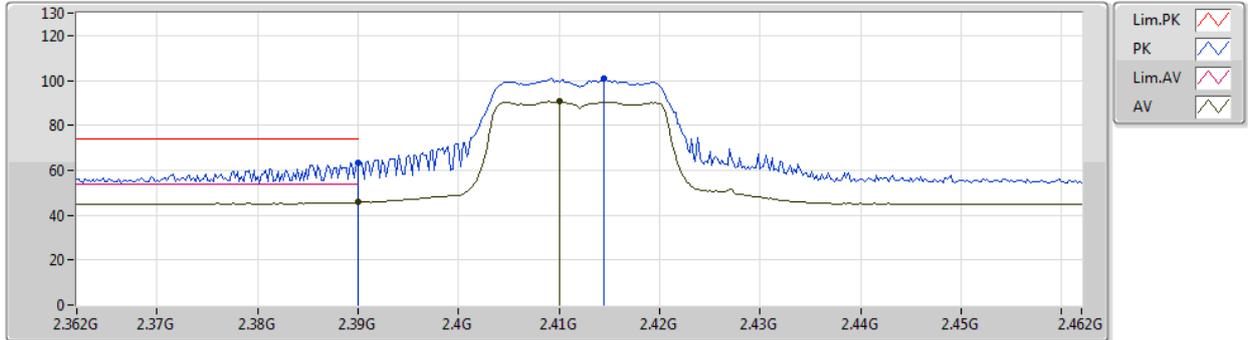


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92401G	47.62	54.00	-6.38	7.79	3	Horizontal	73	1.71	-	39.83	31.27	5.87	29.35
AV	7.3842G	37.23	54.00	-16.77	13.14	3	Horizontal	355	1.50	-	24.09	36.22	7.34	30.42
PK	4.92406G	52.15	74.00	-21.85	7.79	3	Horizontal	73	1.71	-	44.36	31.27	5.87	29.35
PK	7.37544G	51.25	74.00	-22.75	13.17	3	Horizontal	355	1.50	-	38.08	36.22	7.36	30.41

802.11g_Nss1,(6Mbps)_1TX

20/02/2020

2412MHz_TX

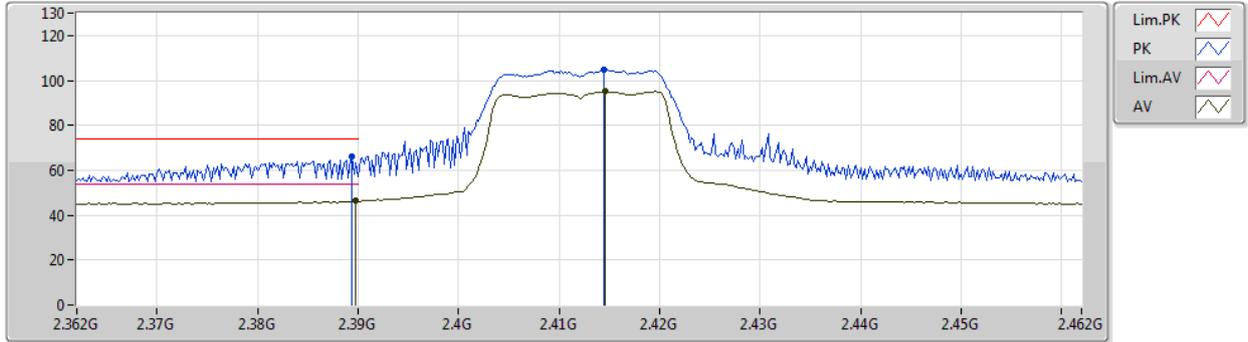


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	45.73	54.00	-8.27	31.54	3	Vertical	296	1.49	-	14.19	27.54	4.00	-
AV	2.41G	90.58	Inf	-Inf	31.50	3	Vertical	296	1.49	-	59.08	27.48	4.02	-
PK	2.39G	63.51	74.00	-10.49	31.54	3	Vertical	296	1.49	-	31.97	27.54	4.00	-
PK	2.4144G	100.81	Inf	-Inf	31.49	3	Vertical	296	1.49	-	69.32	27.47	4.02	-

802.11g_Nss1,(6Mbps)_1TX

20/02/2020

2412MHz_TX

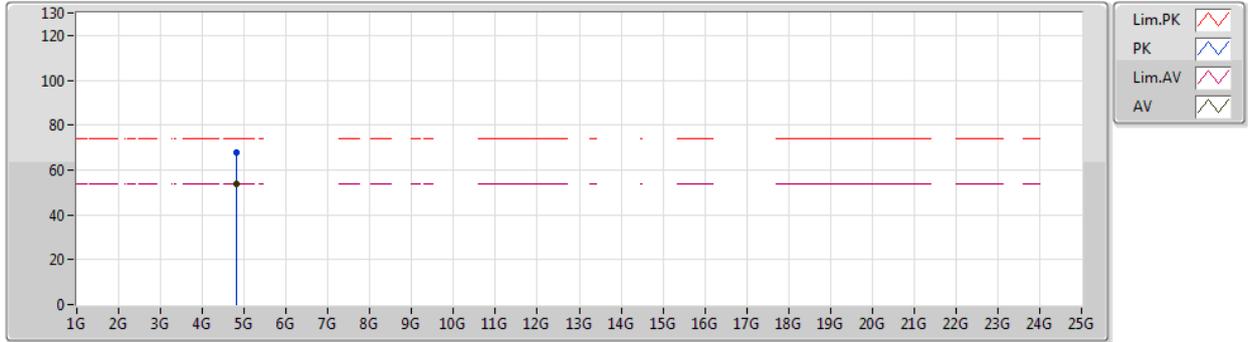


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AV	2.3898G	46.25	54.00	-7.75	31.54	3	Horizontal	0	1.08	-	14.71	27.54	4.00	-
AV	2.4146G	95.07	Inf	-Inf	31.49	3	Horizontal	0	1.08	-	63.58	27.47	4.02	-
PK	2.3894G	66.18	74.00	-7.82	31.54	3	Horizontal	0	1.08	-	34.64	27.54	4.00	-
PK	2.4144G	104.86	Inf	-Inf	31.49	3	Horizontal	0	1.08	-	73.37	27.47	4.02	-

802.11g_Nss1,(6Mbps)_1TX

20/02/2020

2412MHz_TX



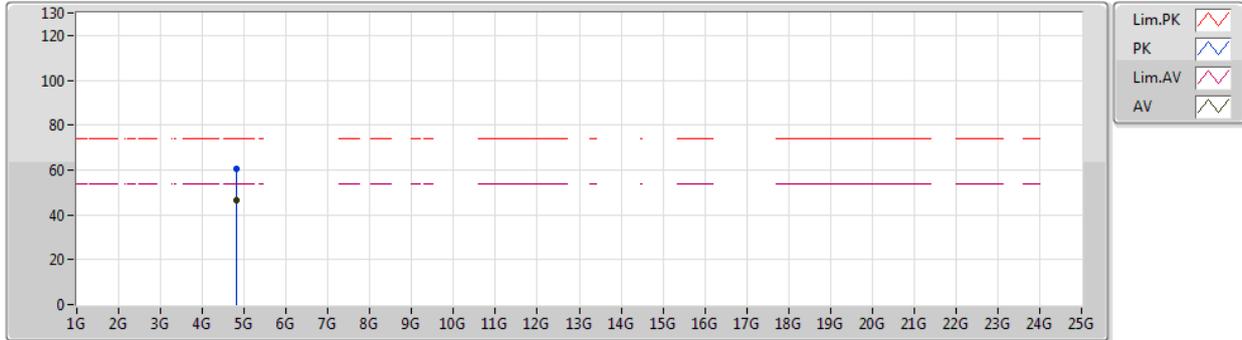
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AV	4.8245G	53.63	54.00	-0.37	7.51	3	Vertical	16	1.73	-	46.12	31.12	5.79	29.40
PK	4.8233G	67.78	74.00	-6.22	7.51	3	Vertical	16	1.73	-	60.27	31.12	5.79	29.40



802.11g_Nss1,(6Mbps)_1TX

20/02/2020

2412MHz_TX

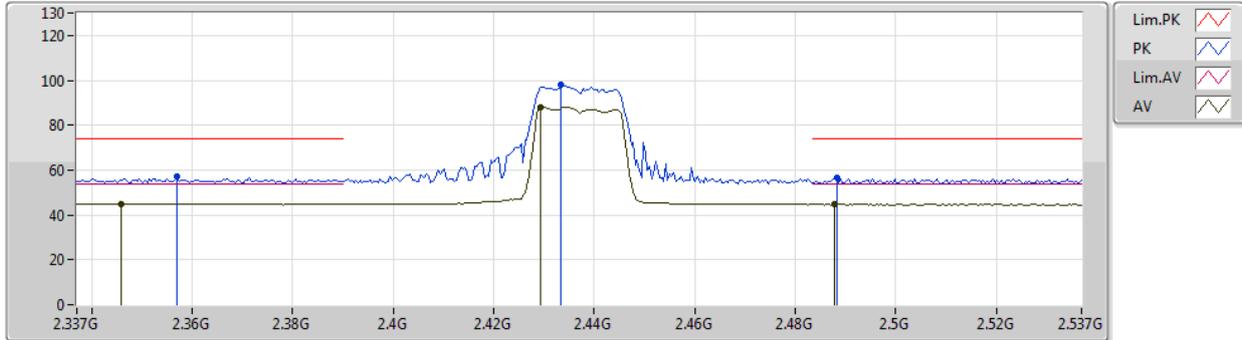


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8236G	46.69	54.00	-7.31	7.51	3	Horizontal	11	1.96	-	39.18	31.12	5.79	29.40
PK	4.8231G	60.77	74.00	-13.23	7.51	3	Horizontal	11	1.96	-	53.26	31.12	5.79	29.40

802.11g_Nss1,(6Mbps)_1TX

20/02/2020

2437MHz_TX

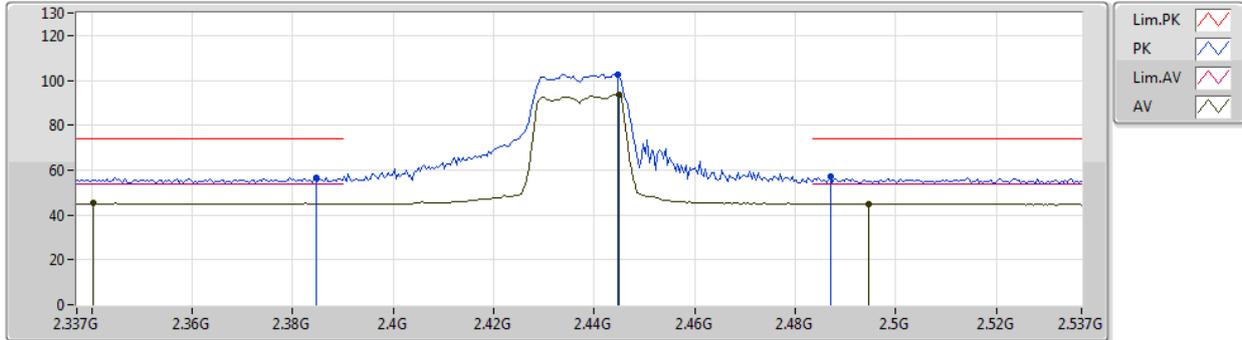


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3458G	45.10	54.00	-8.90	31.68	3	Vertical	294	1.50	-	13.42	27.72	3.96	-
AV	2.4294G	88.05	Inf	-Inf	31.47	3	Vertical	294	1.50	-	56.58	27.44	4.03	-
AV	2.4878G	44.82	54.00	-9.18	31.41	3	Vertical	294	1.50	-	13.41	27.32	4.09	-
PK	2.357G	56.92	74.00	-17.08	31.64	3	Vertical	294	1.50	-	25.28	27.67	3.97	-
PK	2.4334G	97.89	Inf	-Inf	31.47	3	Vertical	294	1.50	-	66.42	27.43	4.04	-
PK	2.4882G	56.38	74.00	-17.62	31.41	3	Vertical	294	1.50	-	24.97	27.32	4.09	-

802.11g_Nss1,(6Mbps)_1TX

20/02/2020

2437MHz_TX

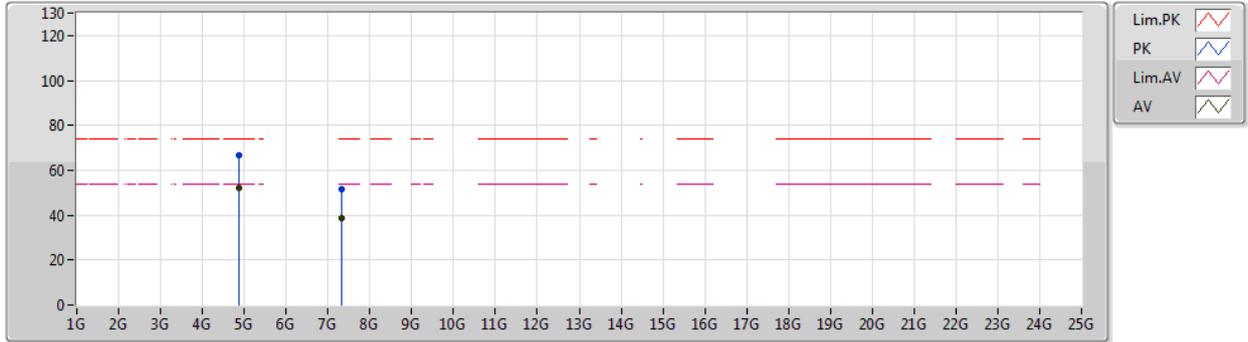


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3402G	45.23	54.00	-8.77	31.69	3	Horizontal	0	1.05	-	13.54	27.74	3.95	-
AV	2.445G	93.50	Inf	-Inf	31.46	3	Horizontal	0	1.05	-	62.04	27.41	4.05	-
AV	2.4946G	45.02	54.00	-8.98	31.40	3	Horizontal	0	1.05	-	13.62	27.31	4.09	-
PK	2.3846G	56.82	74.00	-17.18	31.55	3	Horizontal	0	1.05	-	25.27	27.56	3.99	-
PK	2.4446G	102.63	Inf	-Inf	31.46	3	Horizontal	0	1.05	-	71.17	27.41	4.05	-
PK	2.487G	56.90	74.00	-17.10	31.42	3	Horizontal	0	1.05	-	25.48	27.33	4.09	-

802.11g_Nss1,(6Mbps)_1TX

20/02/2020

2437MHz_TX



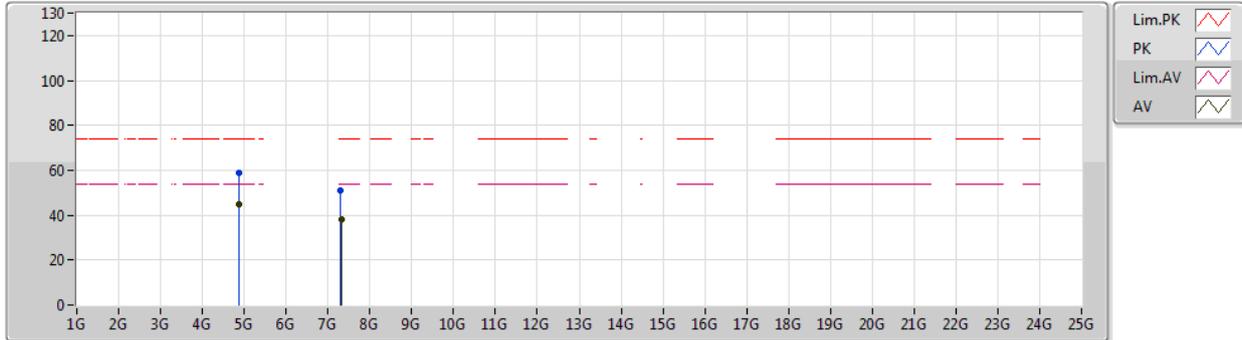
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AV	4.8746G	52.19	54.00	-1.81	7.62	3	Vertical	53	1.93	-	44.57	31.17	5.83	29.38
AV	7.31628G	38.75	54.00	-15.25	13.39	3	Vertical	37	2.16	-	25.36	36.28	7.47	30.36
PK	4.8731G	66.96	74.00	-7.04	7.62	3	Vertical	53	1.93	-	59.34	31.17	5.83	29.38
PK	7.31586G	51.58	74.00	-22.42	13.39	3	Vertical	37	2.16	-	38.19	36.28	7.47	30.36



802.11g_Nss1,(6Mbps)_1TX

20/02/2020

2437MHz_TX

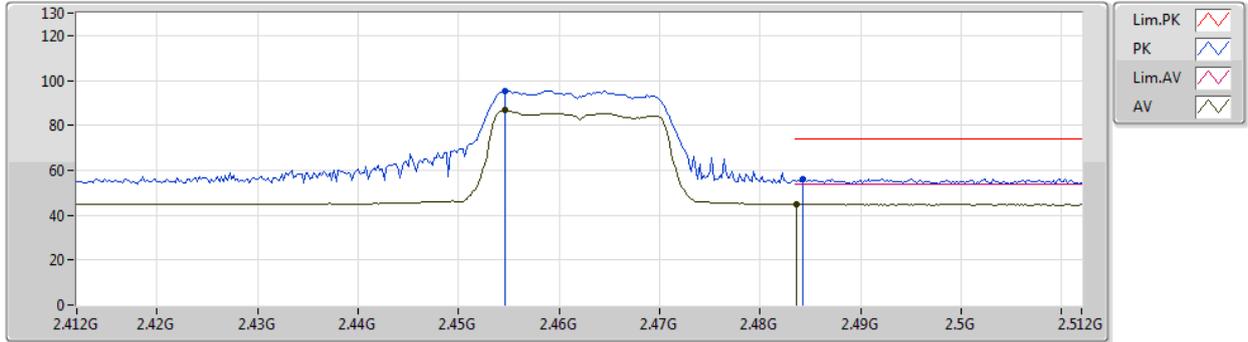


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8744G	44.63	54.00	-9.37	7.62	3	Horizontal	45	1.31	-	37.01	31.17	5.83	29.38
AV	7.31718G	38.37	54.00	-15.63	13.39	3	Horizontal	62	1.81	-	24.98	36.28	7.47	30.36
PK	4.8765G	59.03	74.00	-14.97	7.63	3	Horizontal	45	1.31	-	51.40	31.18	5.83	29.38
PK	7.29792G	50.98	74.00	-23.02	13.45	3	Horizontal	62	1.81	-	37.53	36.30	7.50	30.35

802.11g_Nss1,(6Mbps)_1TX

20/02/2020

2462MHz_TX

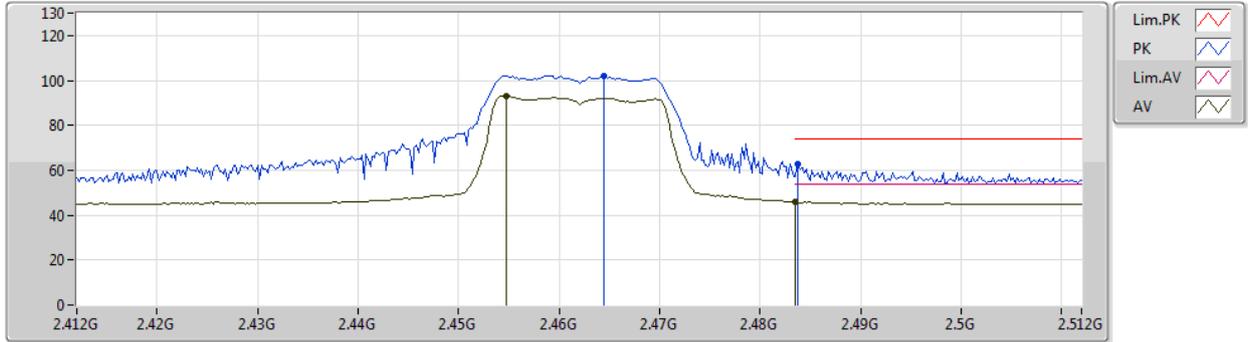


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4546G	86.58	Inf	-Inf	31.45	3	Vertical	293	1.74	-	55.13	27.39	4.06	-
AV	2.4836G	44.88	54.00	-9.12	31.41	3	Vertical	293	1.74	-	13.47	27.33	4.08	-
PK	2.4546G	95.41	Inf	-Inf	31.45	3	Vertical	293	1.74	-	63.96	27.39	4.06	-
PK	2.4842G	56.25	74.00	-17.75	31.42	3	Vertical	293	1.74	-	24.83	27.33	4.09	-

802.11g_Nss1,(6Mbps)_1TX

20/02/2020

2462MHz_TX

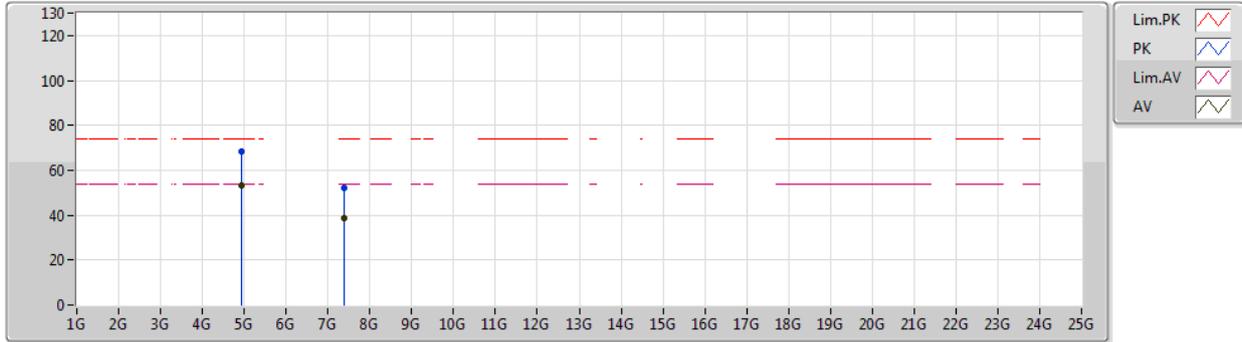


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4548G	93.02	Inf	-Inf	31.45	3	Horizontal	0	1.08	-	61.57	27.39	4.06	-
AV	2.4835G	45.85	54.00	-8.15	31.41	3	Horizontal	0	1.08	-	14.44	27.33	4.08	-
PK	2.4644G	102.25	Inf	-Inf	31.44	3	Horizontal	0	1.08	-	70.81	27.37	4.07	-
PK	2.4838G	62.89	74.00	-11.11	31.41	3	Horizontal	0	1.08	-	31.48	27.33	4.08	-

802.11g_Nss1,(6Mbps)_1TX

20/02/2020

2462MHz_TX



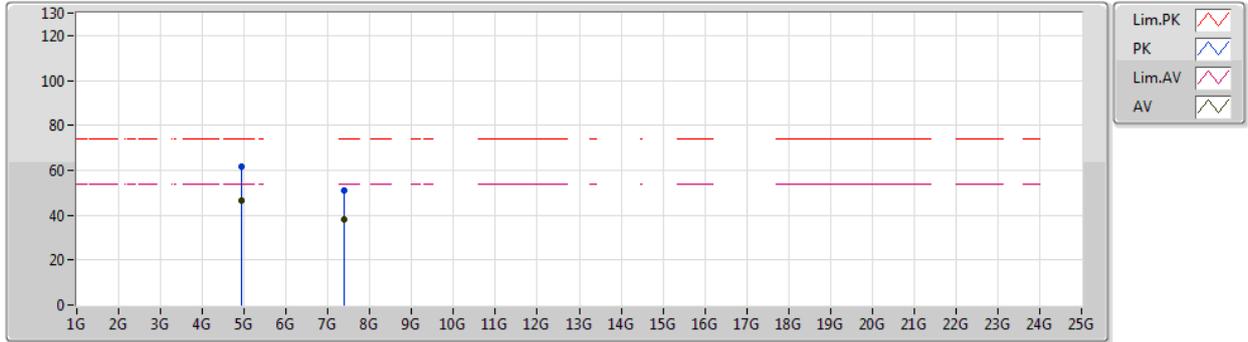
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AV	4.9236G	53.50	54.00	-0.50	7.77	3	Vertical	47	1.90	-	45.73	31.27	5.86	29.36
AV	7.37496G	38.65	54.00	-15.35	13.18	3	Vertical	42	1.69	-	25.47	36.23	7.36	30.41
PK	4.9234G	68.20	74.00	-5.80	7.77	3	Vertical	47	1.90	-	60.43	31.27	5.86	29.36
PK	7.37238G	52.05	74.00	-21.95	13.18	3	Vertical	42	1.69	-	38.87	36.23	7.36	30.41



802.11g_Nss1,(6Mbps)_1TX

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2462MHz_TX

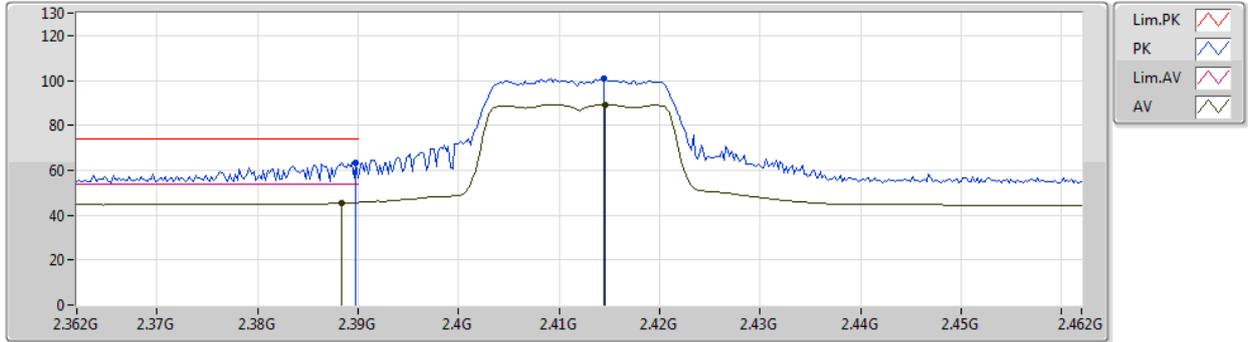


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9234G	46.76	54.00	-7.24	7.77	3	Horizontal	74	1.68	-	38.99	31.27	5.86	29.36
AV	7.38138G	38.32	54.00	-15.68	13.15	3	Horizontal	61	2.02	-	25.17	36.22	7.35	30.42
PK	4.92316G	61.43	74.00	-12.57	7.77	3	Horizontal	74	1.68	-	53.66	31.27	5.86	29.36
PK	7.3734G	51.12	74.00	-22.88	13.18	3	Horizontal	61	2.02	-	37.94	36.23	7.36	30.41

802.11n HT20_Nss1,(MCS0)_1TX

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2412MHz_TX

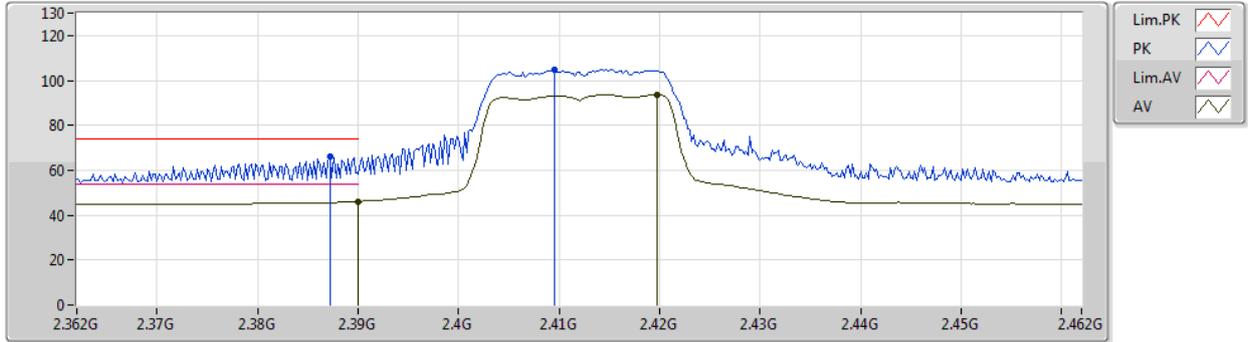


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3884G	45.66	54.00	-8.34	31.55	3	Vertical	297	1.72	-	14.11	27.55	4.00	-
AV	2.4146G	89.23	Inf	-Inf	31.49	3	Vertical	297	1.72	-	57.74	27.47	4.02	-
PK	2.3898G	63.49	74.00	-10.51	31.54	3	Vertical	297	1.72	-	31.95	27.54	4.00	-
PK	2.4144G	101.10	Inf	-Inf	31.49	3	Vertical	297	1.72	-	69.61	27.47	4.02	-

802.11n HT20_Nss1,(MCS0)_1TX

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2412MHz_TX



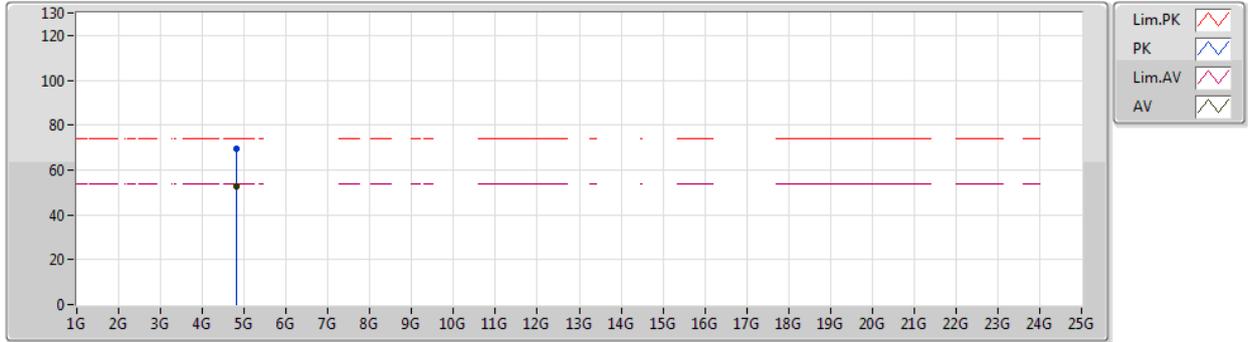
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AV	2.39G	46.10	54.00	-7.90	31.54	3	Horizontal	3	1.07	-	14.56	27.54	4.00	-
AV	2.4198G	93.68	Inf	-Inf	31.48	3	Horizontal	3	1.07	-	62.20	27.46	4.02	-
PK	2.3872G	65.91	74.00	-8.09	31.54	3	Horizontal	3	1.07	-	34.37	27.55	3.99	-
PK	2.4096G	104.95	Inf	-Inf	31.50	3	Horizontal	3	1.07	-	73.45	27.48	4.02	-



802.11n HT20_Nss1,(MCS0)_1TX

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2412MHz_TX

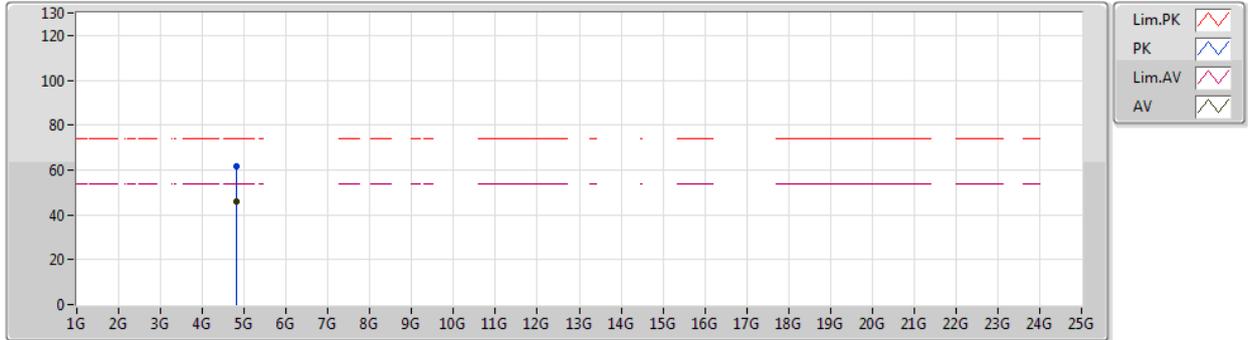


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8242G	52.62	54.00	-1.38	7.51	3	Vertical	16	1.72	-	45.11	31.12	5.79	29.40
PK	4.8208G	69.54	74.00	-4.46	7.51	3	Vertical	16	1.72	-	62.03	31.12	5.79	29.40

802.11n HT20_Nss1,(MCS0)_1TX

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2412MHz_TX

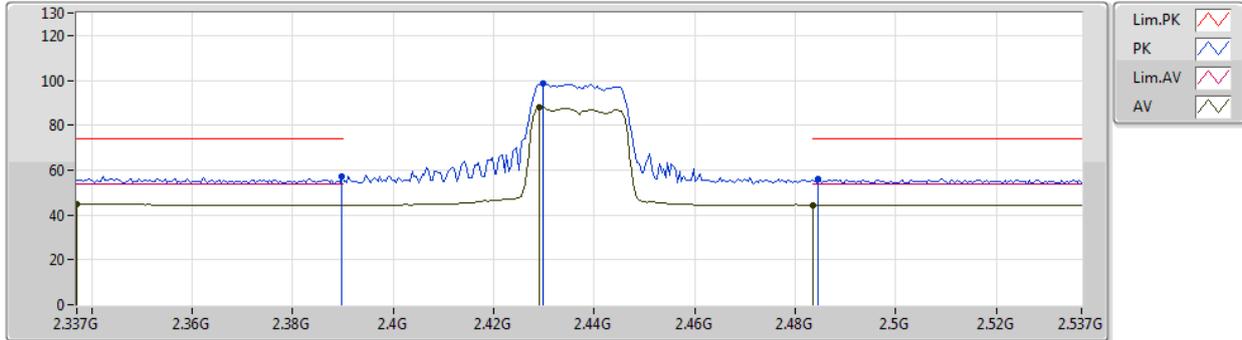


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8246G	45.81	54.00	-8.19	7.51	3	Horizontal	28	1.67	-	38.30	31.12	5.79	29.40
PK	4.8211G	61.52	74.00	-12.48	7.51	3	Horizontal	28	1.67	-	54.01	31.12	5.79	29.40

802.11n HT20_Nss1,(MCS0)_1TX

20/02/2020

2437MHz_TX

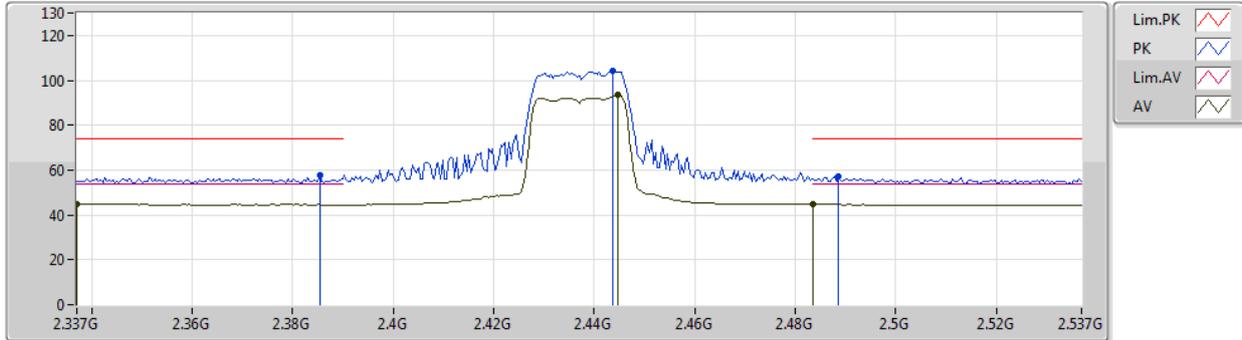


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.337G	44.67	54.00	-9.33	31.70	3	Vertical	295	1.50	-	12.97	27.75	3.95	-
AV	2.429G	87.88	Inf	-Inf	31.47	3	Vertical	295	1.50	-	56.41	27.44	4.03	-
AV	2.4835G	44.31	54.00	-9.69	31.41	3	Vertical	295	1.50	-	12.90	27.33	4.08	-
PK	2.3898G	57.26	74.00	-16.74	31.54	3	Vertical	295	1.50	-	25.72	27.54	4.00	-
PK	2.4298G	98.58	Inf	-Inf	31.47	3	Vertical	295	1.50	-	67.11	27.44	4.03	-
PK	2.4846G	55.98	74.00	-18.02	31.42	3	Vertical	295	1.50	-	24.56	27.33	4.09	-

802.11n HT20_Nss1,(MCS0)_1TX

20/02/2020

2437MHz_TX

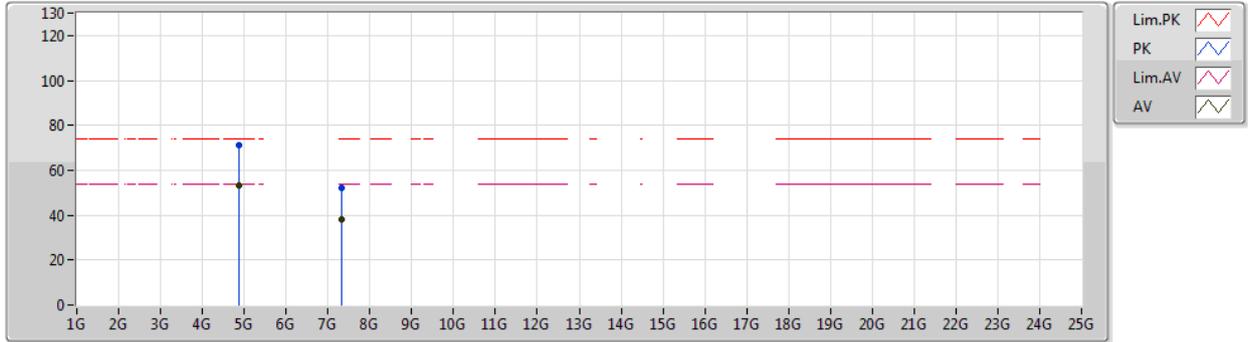


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.337G	44.67	54.00	-9.33	31.70	3	Horizontal	0	1.05	-	12.97	27.75	3.95	-
AV	2.4446G	93.30	Inf	-Inf	31.46	3	Horizontal	0	1.05	-	61.84	27.41	4.05	-
AV	2.4835G	44.64	54.00	-9.36	31.41	3	Horizontal	0	1.05	-	13.23	27.33	4.08	-
PK	2.3854G	57.44	74.00	-16.56	31.55	3	Horizontal	0	1.05	-	25.89	27.56	3.99	-
PK	2.4438G	104.06	Inf	-Inf	31.46	3	Horizontal	0	1.05	-	72.60	27.41	4.05	-
PK	2.4886G	57.28	74.00	-16.72	31.41	3	Horizontal	0	1.05	-	25.87	27.32	4.09	-

802.11n HT20_Nss1,(MCS0)_1TX

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2437MHz_TX

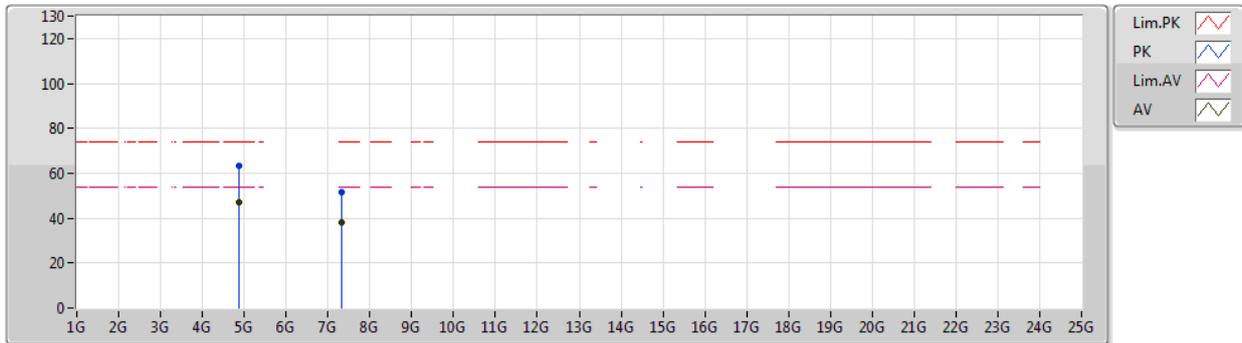


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87442G	53.42	54.00	-0.58	7.62	3	Vertical	52	1.93	-	45.80	31.17	5.83	29.38
AV	7.31478G	38.16	54.00	-15.84	13.40	3	Vertical	360	2.70	-	24.76	36.29	7.47	30.36
PK	4.87064G	70.91	74.00	-3.09	7.62	3	Vertical	52	1.93	-	63.29	31.17	5.83	29.38
PK	7.31352G	52.20	74.00	-21.80	13.40	3	Vertical	360	2.70	-	38.80	36.29	7.47	30.36

802.11n HT20_Nss1,(MCS0)_1TX

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2437MHz_TX

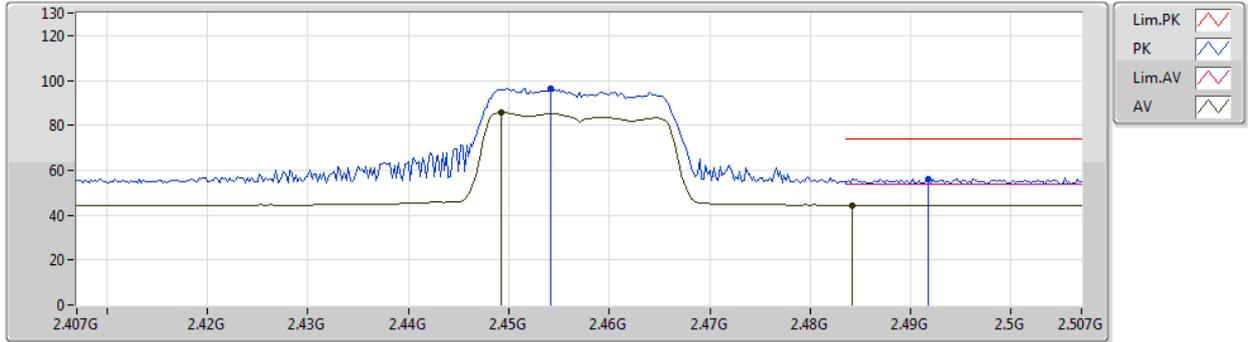


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8744G	47.04	54.00	-6.96	7.62	3	Horizontal	48	1.18	-	39.42	31.17	5.83	29.38
AV	7.3173G	37.83	54.00	-16.17	13.39	3	Horizontal	80	1.83	-	24.44	36.28	7.47	30.36
PK	4.8746G	63.11	74.00	-10.89	7.62	3	Horizontal	48	1.18	-	55.49	31.17	5.83	29.38
PK	7.31214G	51.44	74.00	-22.56	13.41	3	Horizontal	80	1.83	-	38.03	36.29	7.48	30.36

802.11n HT20_Nss1,(MCS0)_1TX

20/02/2020

2457MHz_TX

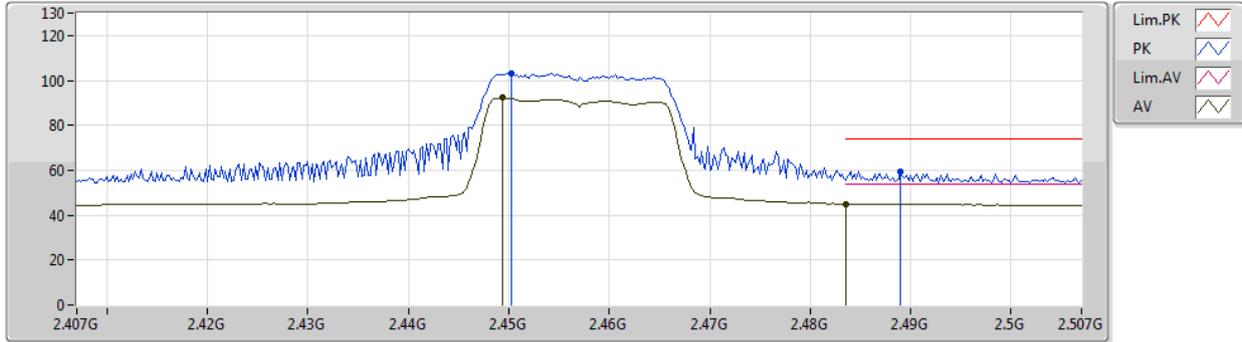


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4492G	85.59	Inf	-Inf	31.45	3	Vertical	294	1.44	-	54.14	27.40	4.05	-
AV	2.4842G	44.37	54.00	-9.63	31.42	3	Vertical	294	1.44	-	12.95	27.33	4.09	-
PK	2.4542G	96.21	Inf	-Inf	31.45	3	Vertical	294	1.44	-	64.76	27.39	4.06	-
PK	2.4918G	56.14	74.00	-17.86	31.41	3	Vertical	294	1.44	-	24.73	27.32	4.09	-

802.11n HT20_Nss1,(MCS0)_1TX

20/02/2020

2457MHz_TX

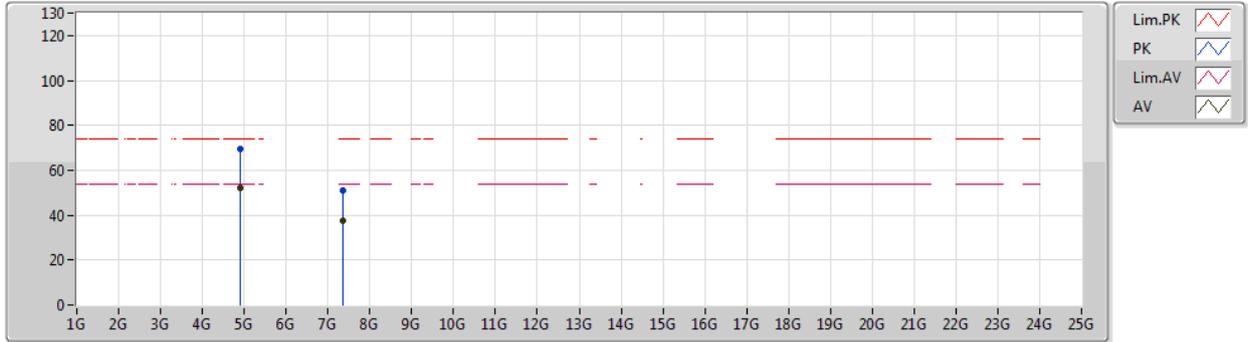


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4494G	92.21	Inf	-Inf	31.45	3	Horizontal	0	1.06	-	60.76	27.40	4.05	-
AV	2.4835G	44.90	54.00	-9.10	31.41	3	Horizontal	0	1.06	-	13.49	27.33	4.08	-
PK	2.4502G	103.35	Inf	-Inf	31.45	3	Horizontal	0	1.06	-	71.90	27.40	4.05	-
PK	2.489G	59.52	74.00	-14.48	31.41	3	Horizontal	0	1.06	-	28.11	27.32	4.09	-

802.11n HT20_Nss1,(MCS0)_1TX

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2457MHz_TX

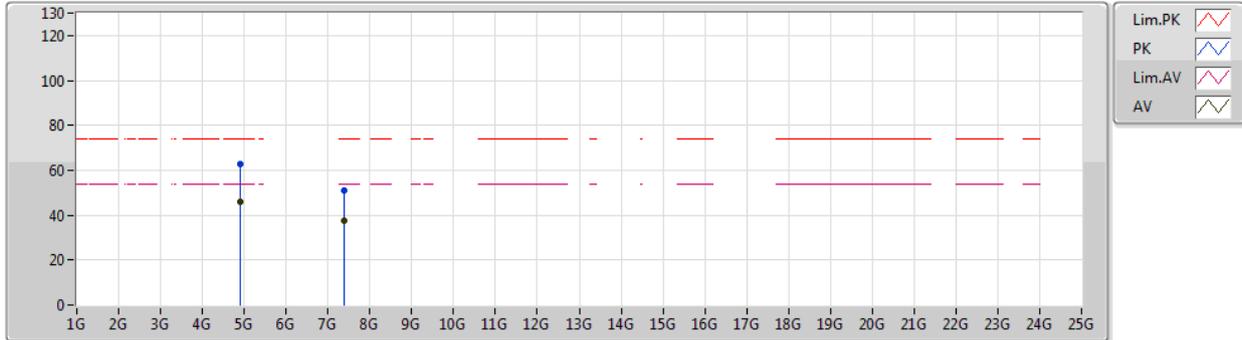


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9146G	52.16	54.00	-1.84	7.74	3	Vertical	50	1.90	-	44.42	31.24	5.86	29.36
AV	7.35744G	37.32	54.00	-16.68	13.23	3	Vertical	145	1.92	-	24.09	36.24	7.39	30.40
PK	4.9103G	69.43	74.00	-4.57	7.73	3	Vertical	50	1.90	-	61.70	31.23	5.86	29.36
PK	7.35996G	50.76	74.00	-23.24	13.23	3	Vertical	145	1.92	-	37.53	36.24	7.39	30.40

802.11n HT20_Nss1,(MCS0)_1TX

20/02/2020

2457MHz_TX

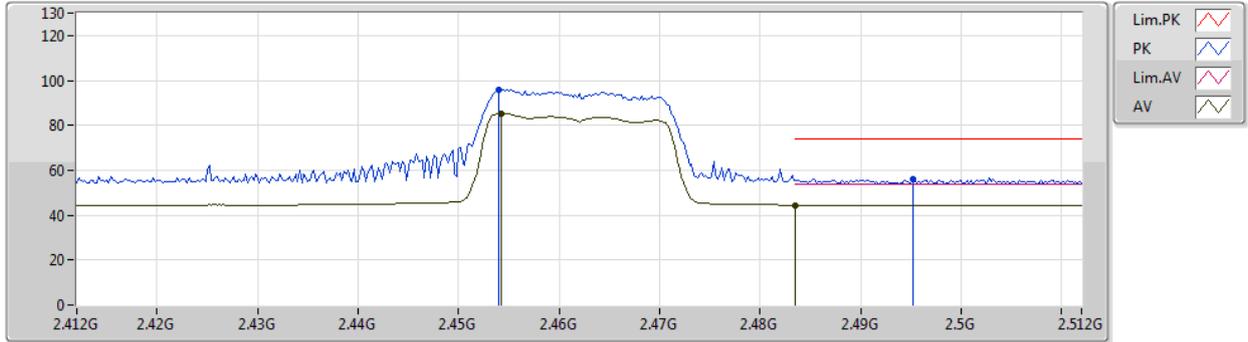


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9145G	46.00	54.00	-8.00	7.74	3	Horizontal	73	1.74	-	38.26	31.24	5.86	29.36
AV	7.37754G	37.45	54.00	-16.55	13.17	3	Horizontal	172	1.64	-	24.28	36.22	7.36	30.41
PK	4.9109G	62.80	74.00	-11.20	7.73	3	Horizontal	73	1.74	-	55.07	31.23	5.86	29.36
PK	7.37586G	51.15	74.00	-22.85	13.17	3	Horizontal	172	1.64	-	37.98	36.22	7.36	30.41

802.11n HT20_Nss1,(MCS0)_1TX

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2462MHz_TX

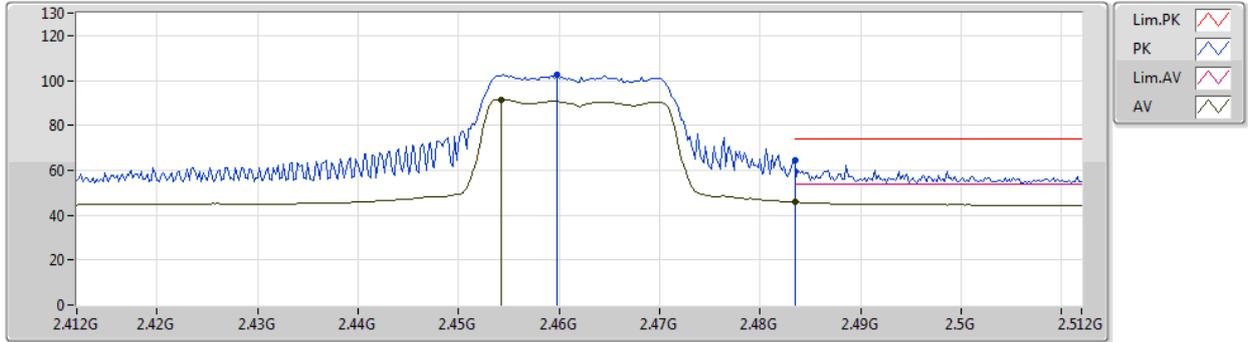


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4542G	85.35	Inf	-Inf	31.45	3	Vertical	297	1.74	-	53.90	27.39	4.06	-
AV	2.4835G	44.46	54.00	-9.54	31.41	3	Vertical	297	1.74	-	13.05	27.33	4.08	-
PK	2.454G	95.86	Inf	-Inf	31.45	3	Vertical	297	1.74	-	64.41	27.39	4.06	-
PK	2.4952G	55.84	74.00	-18.16	31.41	3	Vertical	297	1.74	-	24.43	27.31	4.10	-

802.11n HT20_Nss1,(MCS0)_1TX

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2462MHz_TX

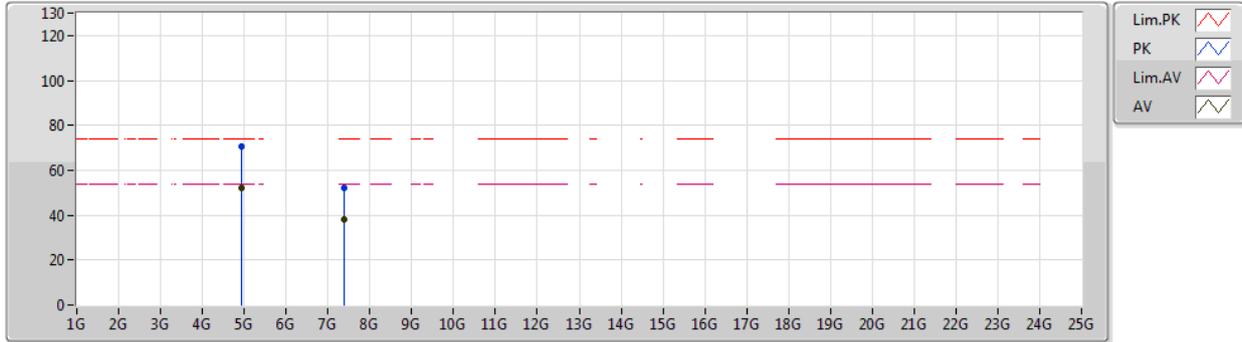


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4542G	91.52	Inf	-Inf	31.45	3	Horizontal	0	1.07	-	60.07	27.39	4.06	-
AV	2.4835G	45.75	54.00	-8.25	31.41	3	Horizontal	0	1.07	-	14.34	27.33	4.08	-
PK	2.4598G	102.35	Inf	-Inf	31.44	3	Horizontal	0	1.07	-	70.91	27.38	4.06	-
PK	2.4835G	64.48	74.00	-9.52	31.41	3	Horizontal	0	1.07	-	33.07	27.33	4.08	-

802.11n HT20_Nss1,(MCS0)_1TX

20/02/2020

2462MHz_TX



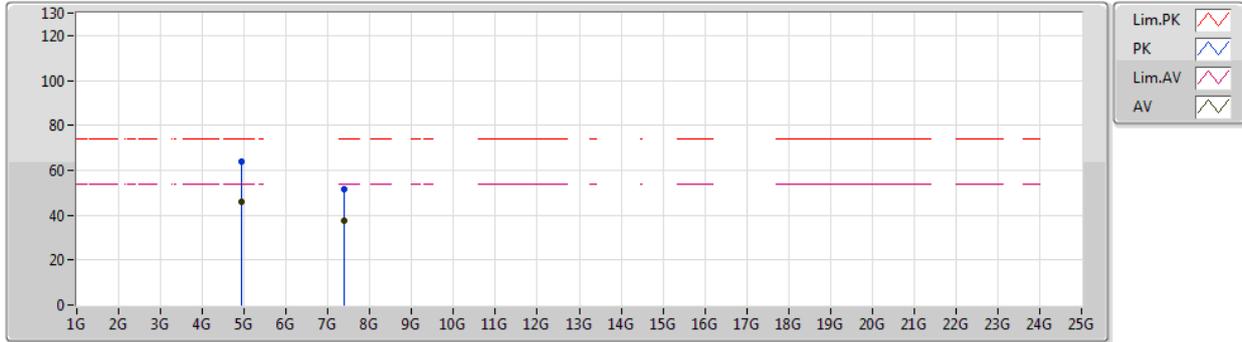
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9243G	52.38	54.00	-1.62	7.79	3	Vertical	45	1.91	-	44.59	31.27	5.87	29.35
AV	7.3803G	38.09	54.00	-15.91	13.15	3	Vertical	30	2.81	-	24.94	36.22	7.35	30.42
PK	4.9207G	70.41	74.00	-3.59	7.76	3	Vertical	45	1.91	-	62.65	31.26	5.86	29.36
PK	7.37724G	51.93	74.00	-22.07	13.17	3	Vertical	30	2.81	-	38.76	36.22	7.36	30.41



802.11n HT20_Nss1,(MCS0)_1TX

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2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9243G	46.19	54.00	-7.81	7.79	3	Horizontal	78	1.71	-	38.40	31.27	5.87	29.35
AV	7.3776G	37.46	54.00	-16.54	13.17	3	Horizontal	285	1.42	-	24.29	36.22	7.36	30.41
PK	4.9204G	64.03	74.00	-9.97	7.76	3	Horizontal	78	1.71	-	56.27	31.26	5.86	29.36
PK	7.38888G	51.32	74.00	-22.68	13.12	3	Horizontal	285	1.42	-	38.20	36.21	7.33	30.42