

FCC Test Report

FCC ID : PPQ-WCBN3509R38
Equipment : 802.11a/b/g/n 2Tx2R USB WLAN Module
Brand Name : LITE-ON
Model Name : WCBN3509R(38)
Applicant : Lite-On Technology Corp.
Bldg. C, 90, Chien 1 Road, Chung Ho, New
Taipei City 23585, Taiwan, R.O.C
Manufacturer : LITE-ON TECHNOLOGY (Changzhou) CO., LTD
A9 Building, No.88 Yanghu Road, Wujin Hi-Tech
Industrial Development Zone, Changzhou City,
Jiangsu Province 213100 China
Standard : 47 CFR FCC Part 15.247

The product was received on Oct. 24, 2019, and testing was started from Nov. 01, 2019 and completed on Nov. 05, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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


Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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History of this test report

Report No.	Version	Description	Issued Date
FR9O2329-01AC	01	Initial issue of report	Dec. 27, 2019

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	-

Note: Refer as FCC ID : PPQ-3509R38BT.

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: Kate Lo

1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Remark
1	HONGBO	290-10569	PIFA	I-Pex	2.4G+5G	Group 1
2	HONGBO	290-10569	PIFA	I-Pex	2.4G+5G	
3	PSA	RFMTA401030IML B702	PIFA	I-Pex	2.4G+5G	Group 2
4	PSA	RFMTA401030IML B702	PIFA	I-Pex	2.4G+5G	
5	HONGBO	290-10843	PIFA	I-Pex	2.4G+5G	Group 3
6	HONGBO	290-10843	PIFA	I-Pex	2.4G+5G	
7	PSA	RFMTA401050IML B706	PIFA	I-Pex	2.4G+5G	Group 4
8	PSA	RFMTA401050IML B706	PIFA	I-Pex	2.4G+5G	
9	HONGBO	290-10844	PIFA	I-Pex	2.4G+5G	Group 5
10	HONGBO	290-10844	PIFA	I-Pex	2.4G+5G	
11	PSA	RFMTA401080IML B704	PIFA	I-Pex	2.4G+5G	Group 6
12	PSA	RFMTA401080IML B704	PIFA	I-Pex	2.4G+5G	

13	PSA	RFMTA340730IML B305	PIFA	I-Pex	2.4G+5G	Group 7
14	PSA	RFMTA340715IML B302	PIFA	I-Pex	2.4G+5G	

Ant.	Port	Gain (dBi)		Remark
		2.4G	5G	
1	1	3.74	3.8	Group 1
2	2	3.74	3.8	
3	1	3.74	3.8	Group 2
4	2	3.74	3.8	
5	1	3.05	1.59	Group 3
6	2	3.05	1.59	
7	1	3.05	1.59	Group 4
8	2	3.05	1.59	
9	1	2.38	1.49	Group 5
10	2	2.38	1.49	
11	1	1.72	1.25	Group 6
12	2	1.72	1.25	
13	1	-0.5	3.28	Group 7
14	2	-1.68	3.08	

Note 1: The EUT has fourteen antennas.

Note 2: EUT can match with above antennas for using. Group 1 was used to perform the worst configuration and result of that was recorded as the final test result.

For 2.4GHz function:

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

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

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

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From host system(NB)			
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	0.997	0.01	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.976	0.11	1.394m	1k
802.11n HT20	0.975	0.11	1.303m	1k
802.11n HT40	0.934	0.3	651.563u	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 662911 D01 v02r01
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Tim	23~25°C / 61~67%	03/Nov/2019~ 04/Nov/2019
Radiated	03CH03-HY	Justin	18.7~24.3°C / 53.8~61.2%	01/Nov/2019~ 02/Nov/2019
AC Conduction	CO04-HY	Edward	20.9~22.1°C / 60.4~64.2%	05/Nov/2019

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode

Test Software Version	MT7668 QA_ 0.0.1.98
-----------------------	---------------------

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	21
2437MHz	1E
2457MHz	1E
2462MHz	1B
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	1C
2417MHz	22
2437MHz	28
2457MHz	23
2462MHz	1B
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	1E
2417MHz	24
2437MHz	28
2457MHz	24
2462MHz	1E
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	15
2427MHz	17
2437MHz	20
2447MHz	18
2452MHz	17

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

2.4 Support Equipment

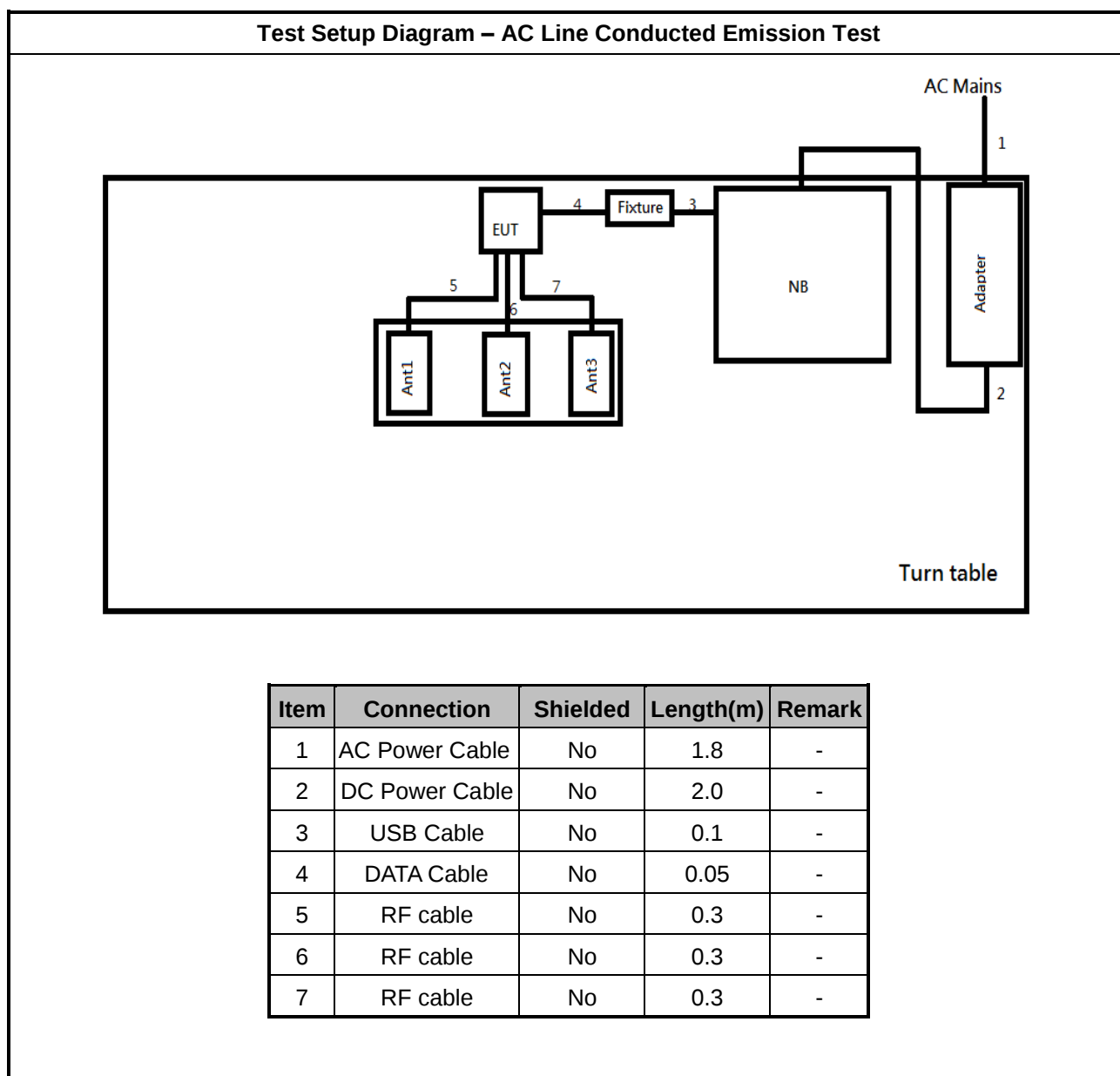
Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	Fixture	LITE-ON	TB001	-

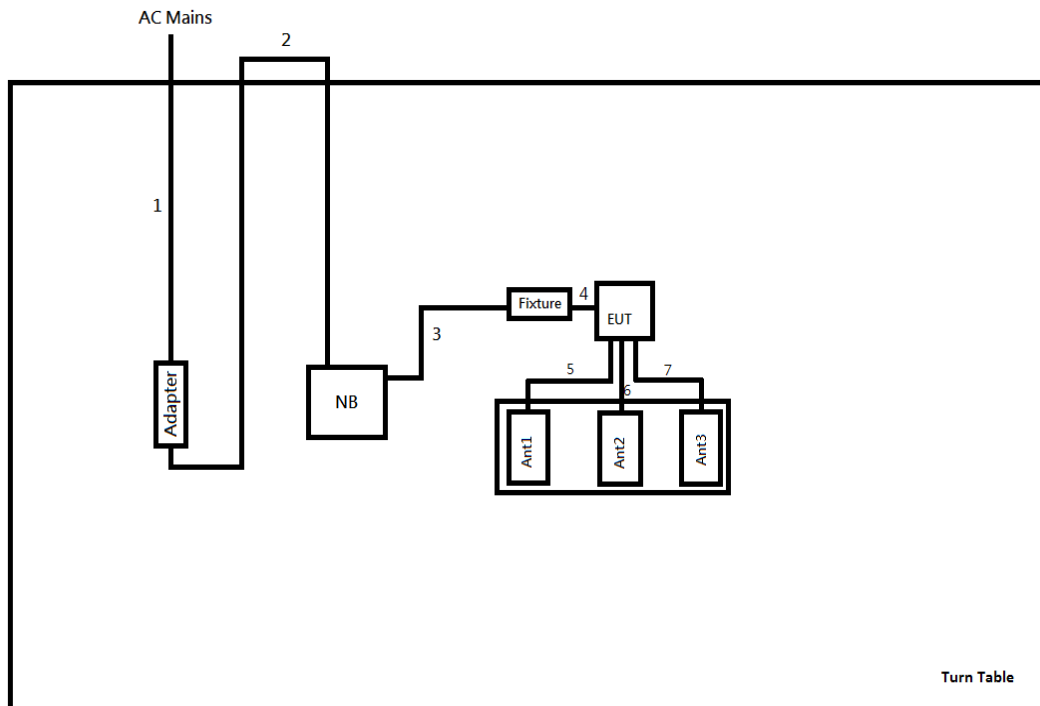
Note: Support equipment No.3 was provided by customer.

Support Equipment –AC Conduction and Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E4300	-
2	Adapter	DELL	LA90PM111	-
3	Fixture	LITE-ON	TB001	-
4	Antenna	HONGBO	290-10569	-

Note: Support equipment No.3 and No.4 were provided by customer.

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	2.0	-
3	USB Cable	No	0.1	-
4	Fixture Cable	No	0.05	-
5	Antenna cable	No	0.3	-
6	Antenna cable	No	0.3	-
7	Antenna cable	No	0.3	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

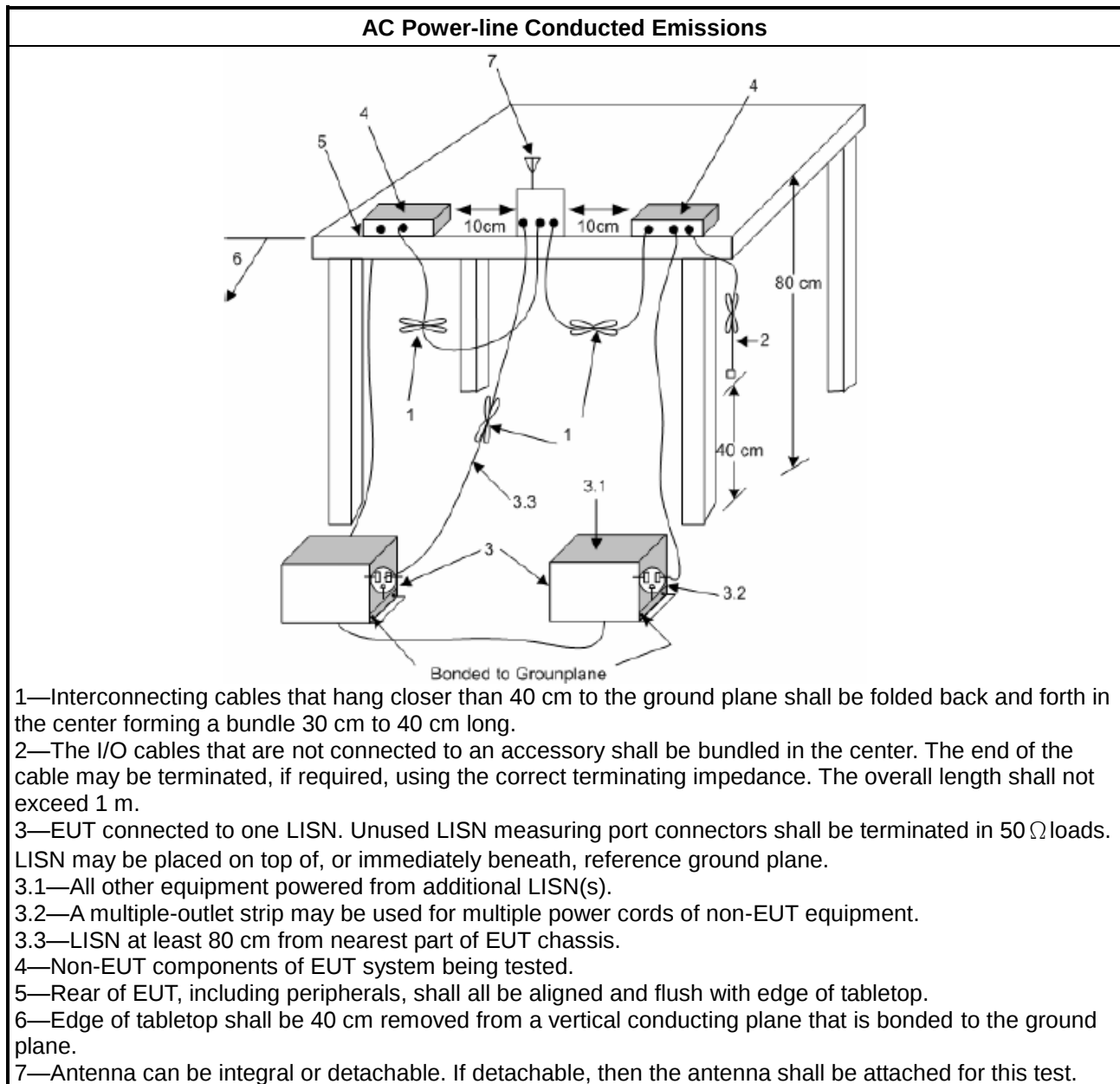
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

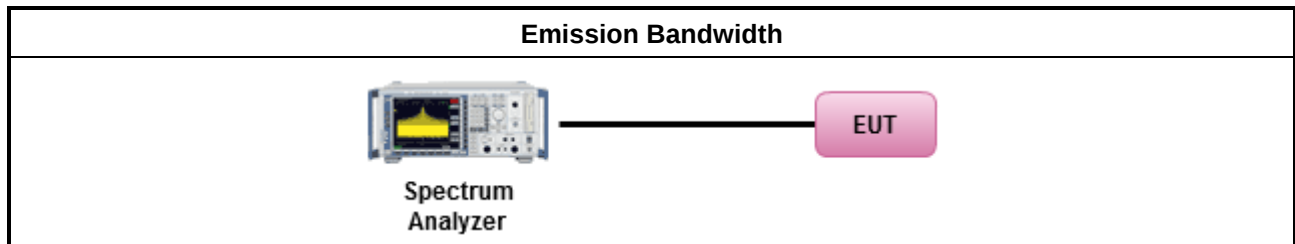
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

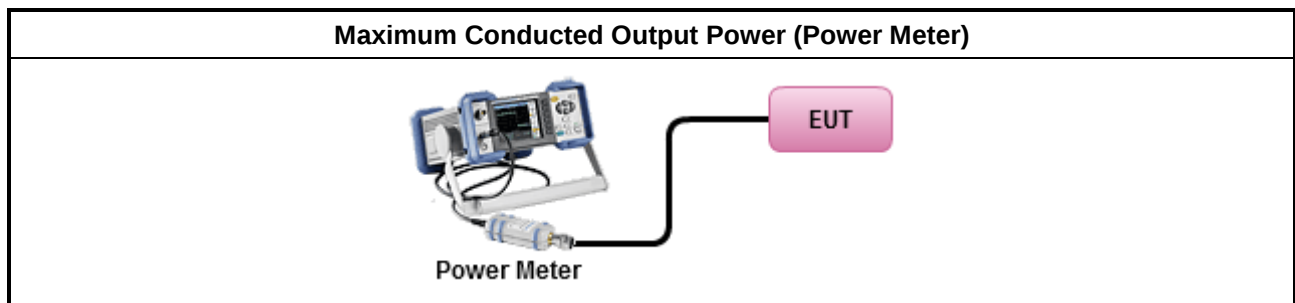
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit	
▪	Power Spectral Density (PSD) $\leq$ 8 dBm/3kHz

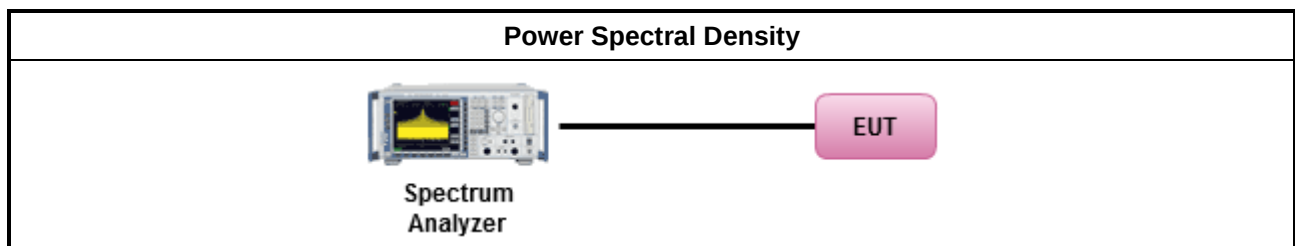
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

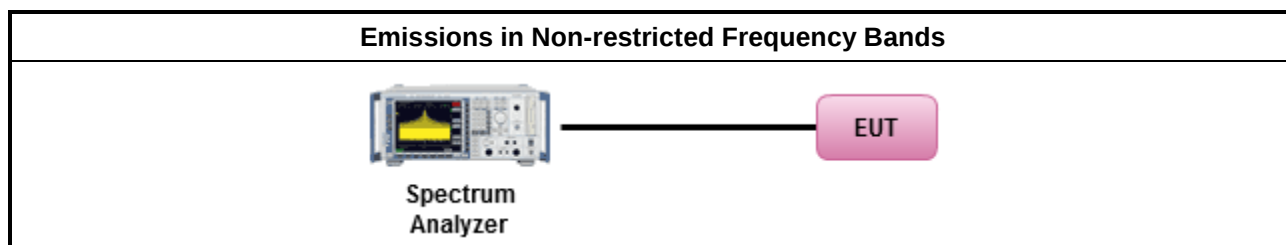
3.5.2 Measuring Instruments

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.

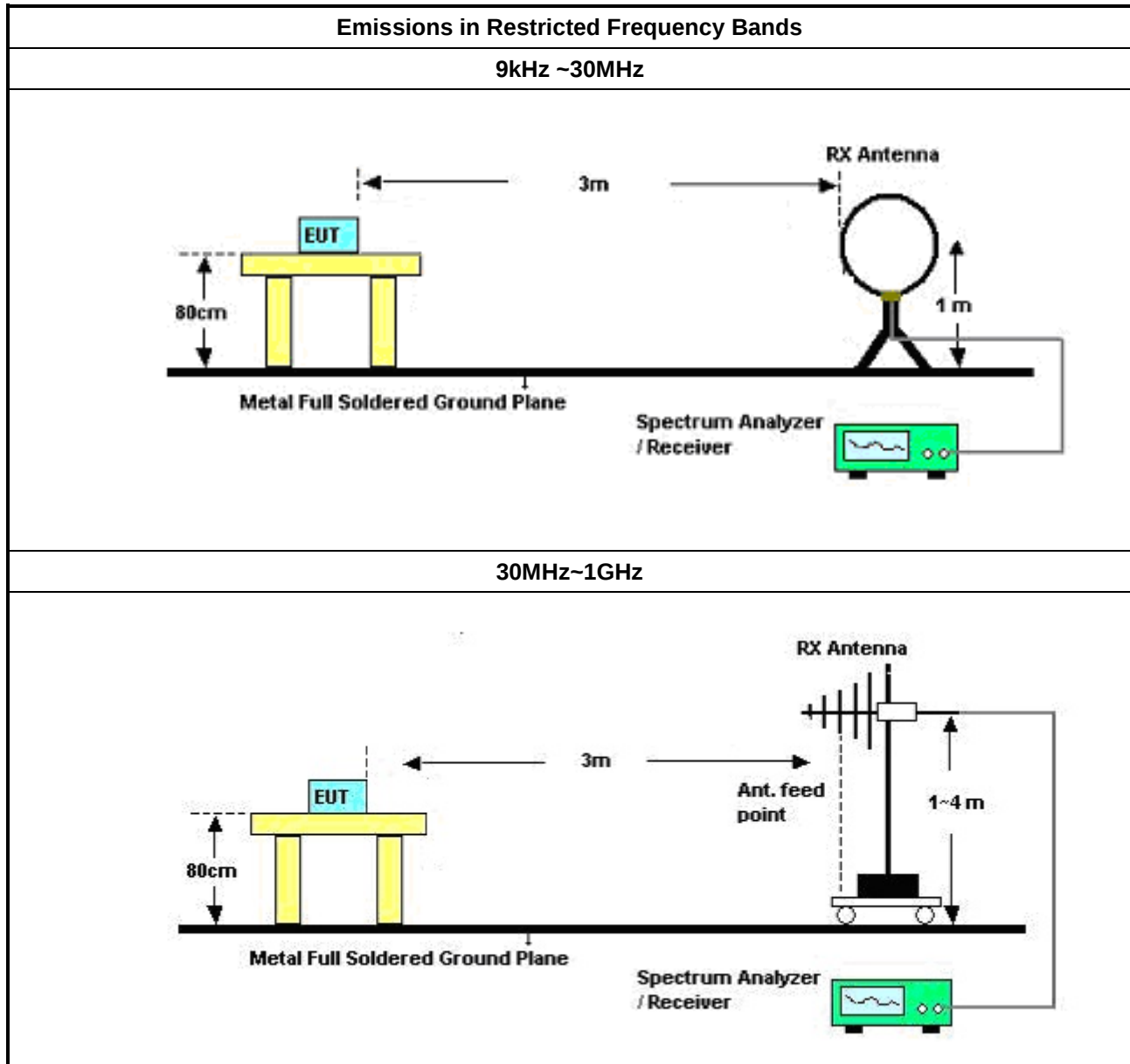
3.6.2 Measuring Instruments

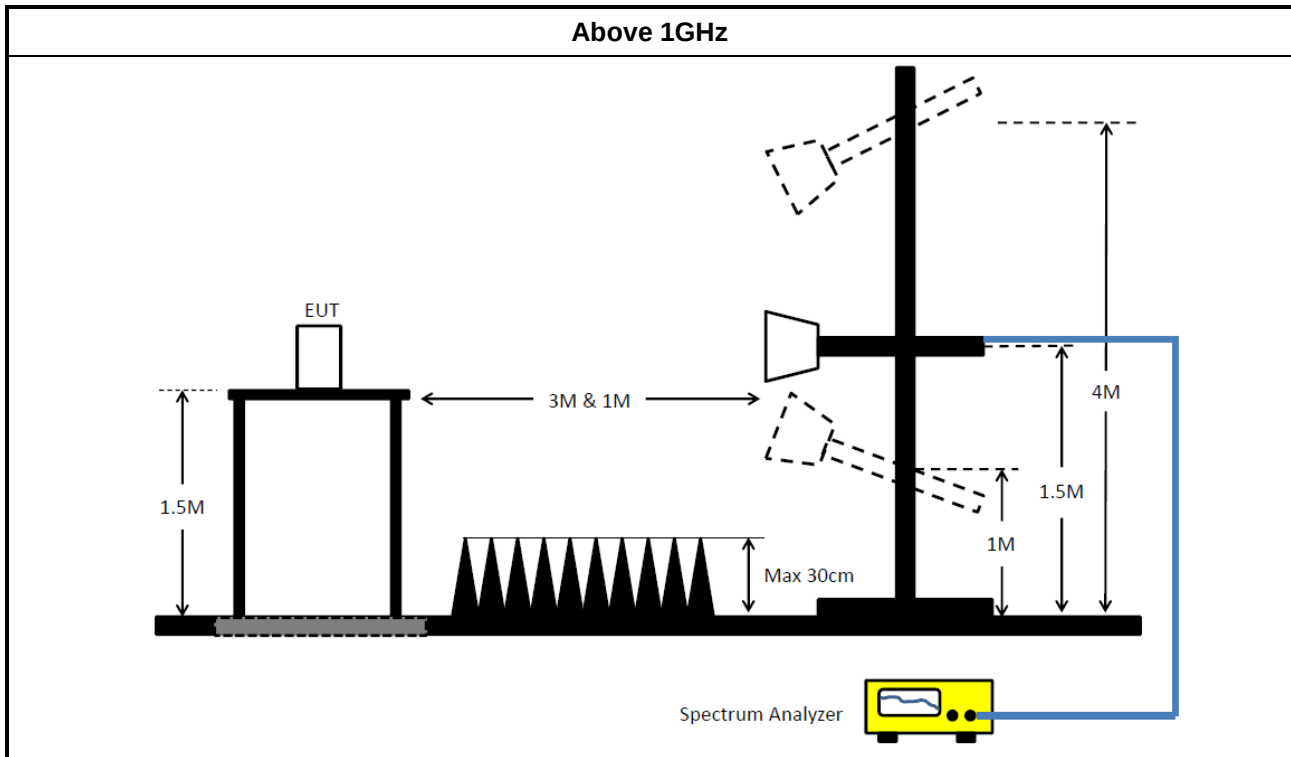
Refer a test equipment and calibration data table in this test report.

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	08/Nov/2018	07/Nov/2019
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	9kHz~30MHz	24/Sep/2019	23/Sep/2020

NCR : Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	30/Aug/2019	29/Aug/2020
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	30/Aug/2019	29/Aug/2020
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	22/Apr/2019	21/Apr/2020
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	09/Apr/2019	08/Apr/2020
Bilog Antenna with 5dB Pad	ETS	3142B & MTJ6102-05	00022055	26 MHz~3 GHz	19/Nov/2018	18/Nov/2019
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz~26.5GHz	09/Sep/2019	08/Sep/2020
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	15/Aug/2019	14/Aug/2020
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~1GHz	22/Mar/2019	21/Mar/2020
RF CABLE 6m	HUBER+SUHNER	SUOFLEX 104	SN 805801/4	1GHz~40GHz	21/Mar/2019	20/Mar/2020
RF CABLE	HUBER+SUHNER	SUOFLEX 104	802378/4	1 GHz~18 GHz	04/Jul/2019	03/Jul/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170339	18GHz~40GHz	19/Apr/ 2019	18/Apr/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	09/Mar/ 2019	08/Mar/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	05/Aug/2019	04/Aug/2020

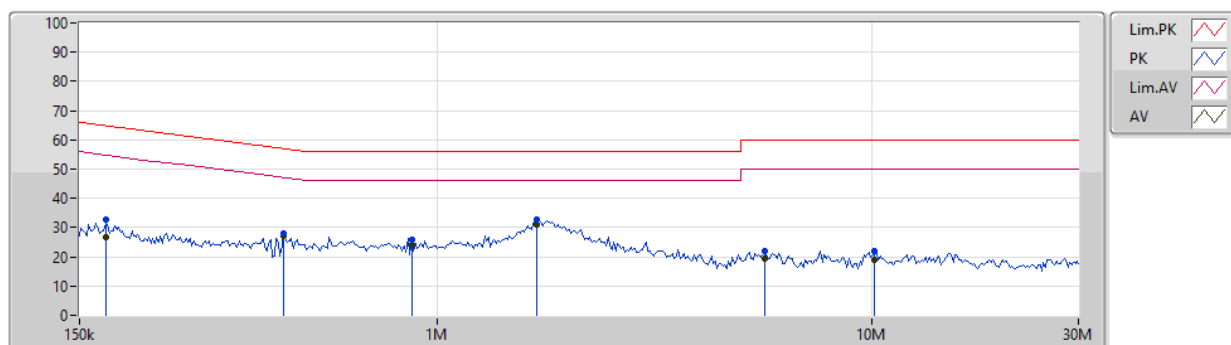
Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal 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
Pulse Power Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	14/Mar/2019	13/Mar/2020
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	14/Mar/2019	13/Mar/2020
CABLE 0.2m	HUBER	MY37960/4	RF Cable - 17	30MHz~18G	10/Jan/2019	09/Jan/2020
CABLE 0.2m	HUBER	MY37960/4	RF Cable - 17	30MHz~18G	10/Jan/2019	09/Jan/2020
CABLE 0.5m	HUBER	MY37963/4	RF Cable - 22	30MHz~18G	10/Jan/2019	09/Jan/2020

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	USB Mode		

04/11/2019

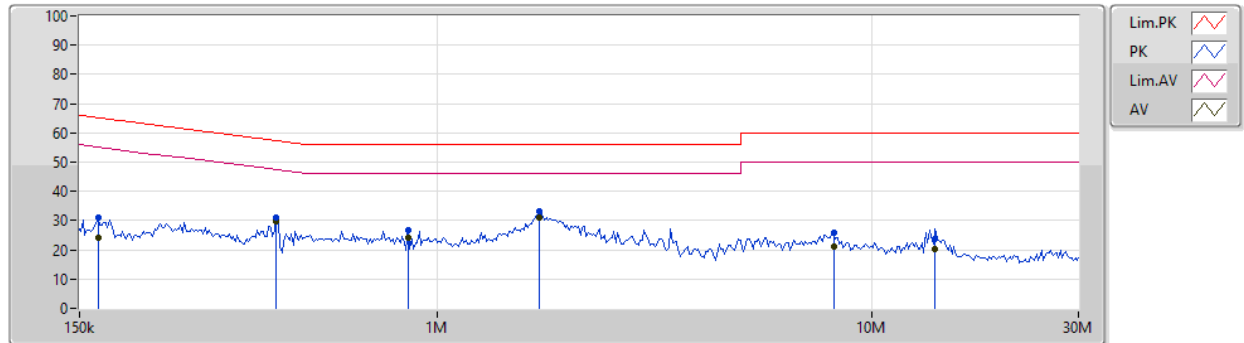


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	172.421k	32.94	64.83	-31.89	19.48	Neutral	-	13.46	9.60	0.01	9.87			
AV	172.421k	26.92	54.83	-27.91	19.48	Neutral	-	7.44	9.60	0.01	9.87			
QP	443.732k	27.85	56.99	-29.14	19.48	Neutral	-	8.37	9.59	0.01	9.88			
AV	443.732k	26.95	46.99	-20.04	19.48	Neutral	-	7.47	9.59	0.01	9.88			
QP	872.92k	25.67	56.00	-30.33	19.49	Neutral	-	6.18	9.59	0.02	9.88			
AV	872.92k	24.22	46.00	-21.78	19.49	Neutral	-	4.73	9.59	0.02	9.88			
QP	1.7M	32.71	56.00	-23.29	19.53	Neutral	-	13.18	9.61	0.03	9.89			
AV	1.7M	30.92	46.00	-15.08	19.53	Neutral	"Worst"	11.39	9.61	0.03	9.89			
QP	5.668M	22.14	60.00	-37.86	19.57	Neutral	-	2.57	9.63	0.05	9.89			
AV	5.668M	19.26	50.00	-30.74	19.57	Neutral	-	-0.31	9.63	0.05	9.89			
QP	10.194M	22.06	60.00	-37.94	19.63	Neutral	-	2.43	9.67	0.07	9.89			
AV	10.194M	19.04	50.00	-30.96	19.63	Neutral	-	-0.59	9.67	0.07	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	USB Mode		

04/11/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	165.693k	31.13	65.18	-34.05	19.48	Line	-	11.65	9.60	0.01	9.87			
AV	165.693k	23.99	55.18	-31.19	19.48	Line	-	4.51	9.60	0.01	9.87			
QP	426.418k	31.08	57.32	-26.24	19.48	Line	-	11.60	9.59	0.01	9.88			
AV	426.418k	29.57	47.32	-17.75	19.48	Line	-	10.09	9.59	0.01	9.88			
QP	855.72k	26.54	56.00	-29.46	19.50	Line	-	7.04	9.60	0.02	9.88			
AV	855.72k	23.98	46.00	-22.02	19.50	Line	-	4.48	9.60	0.02	9.88			
QP	1.717M	33.03	56.00	-22.97	19.54	Line	-	13.49	9.62	0.03	9.89			
AV	1.717M	31.07	46.00	-14.93	19.54	Line	"Worst"	11.53	9.62	0.03	9.89			
QP	8.19M	25.66	60.00	-34.34	19.61	Line	-	6.05	9.66	0.06	9.89			
AV	8.19M	21.26	50.00	-28.74	19.61	Line	-	1.65	9.66	0.06	9.89			
QP	14.016M	23.88	60.00	-36.12	19.64	Line	-	4.24	9.65	0.09	9.90			
AV	14.016M	20.42	50.00	-29.58	19.64	Line	-	0.78	9.65	0.09	9.90			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	9.55M	14.493M	14M5G1D	9.075M	13.868M
802.11g_Nss1,(6Mbps)_2TX	15.075M	17.816M	17M8D1D	14.975M	16.317M
802.11n HT20_Nss1,(MCS0)_2TX	16.3M	17.966M	18M0D1D	15.05M	17.491M
802.11n HT40_Nss1,(MCS0)_2TX	35.1M	36.182M	36M2D1D	35.05M	35.982M

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

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	9.075M	14.493M	9.075M	14.093M
2437MHz	Pass	500k	9.55M	13.993M	9.075M	13.868M
2462MHz	Pass	500k	9.075M	14.218M	9.075M	14.193M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.05M	16.417M	15.075M	16.317M
2437MHz	Pass	500k	15.075M	16.792M	15.05M	17.816M
2462MHz	Pass	500k	15.075M	16.392M	14.975M	16.367M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.1M	17.541M	16.3M	17.516M
2437MHz	Pass	500k	15.05M	17.941M	15.125M	17.966M
2462MHz	Pass	500k	15.075M	17.541M	15.7M	17.491M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.1M	36.182M	35.05M	36.142M
2437MHz	Pass	500k	35.1M	36.082M	35.1M	36.032M
2452MHz	Pass	500k	35.05M	35.982M	35.05M	36.032M

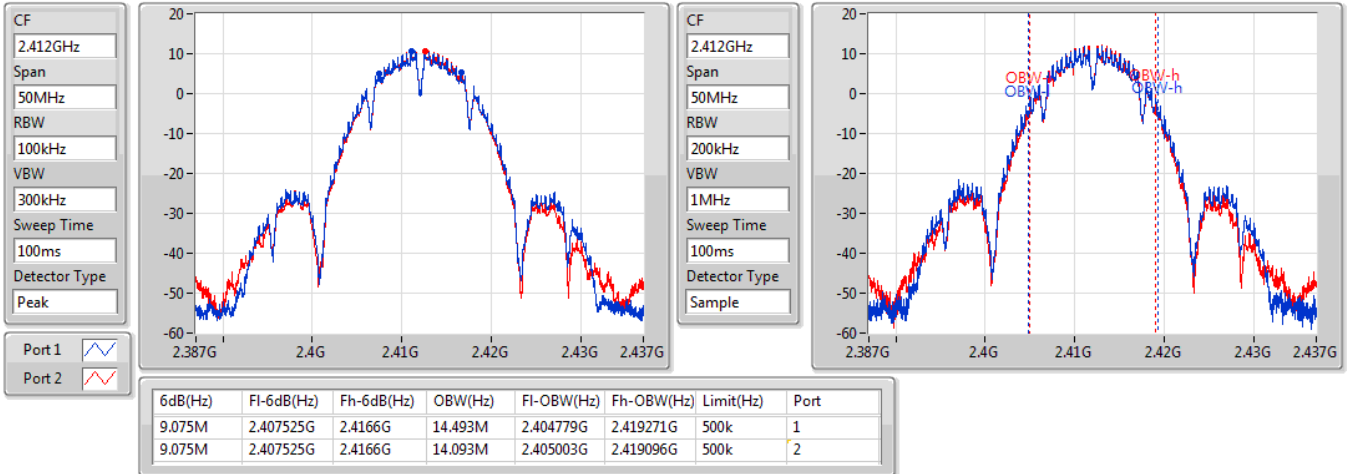
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX

EBW

2412MHz

03/11/2019

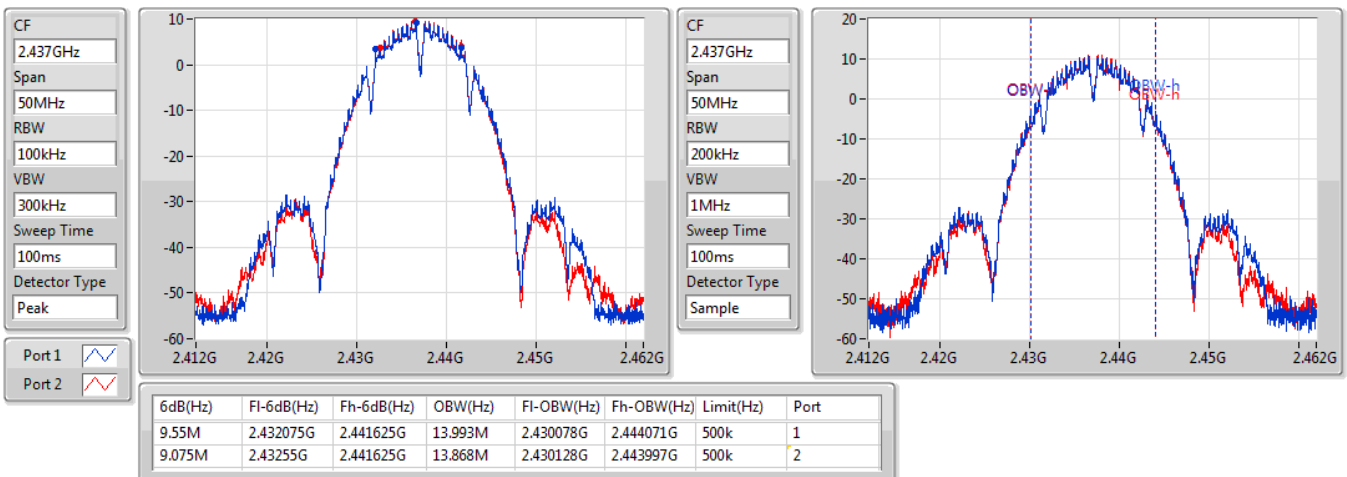


802.11b_Nss1,(1Mbps)_2TX

EBW

2437MHz

03/11/2019

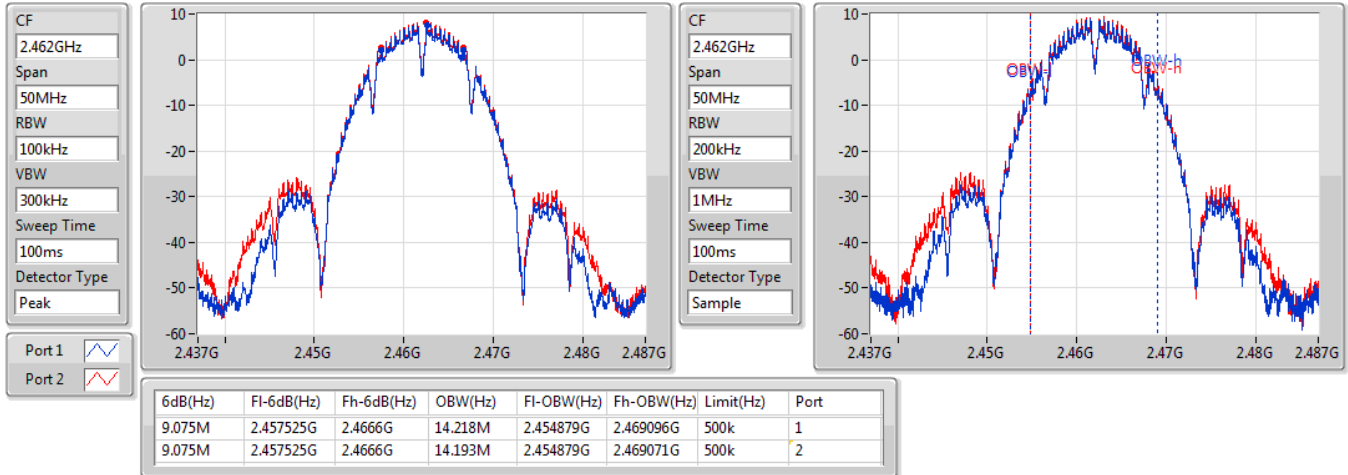


802.11b_Nss1,(1Mbps)_2TX

EBW

2462MHz

03/11/2019

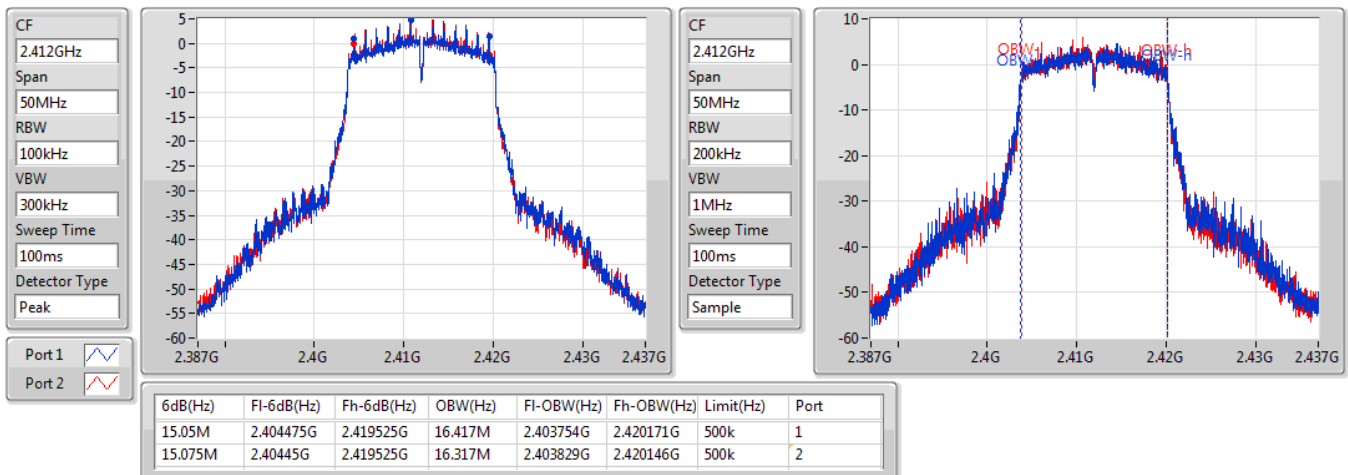


802.11g_Nss1,(6Mbps)_2TX

EBW

2412MHz

03/11/2019

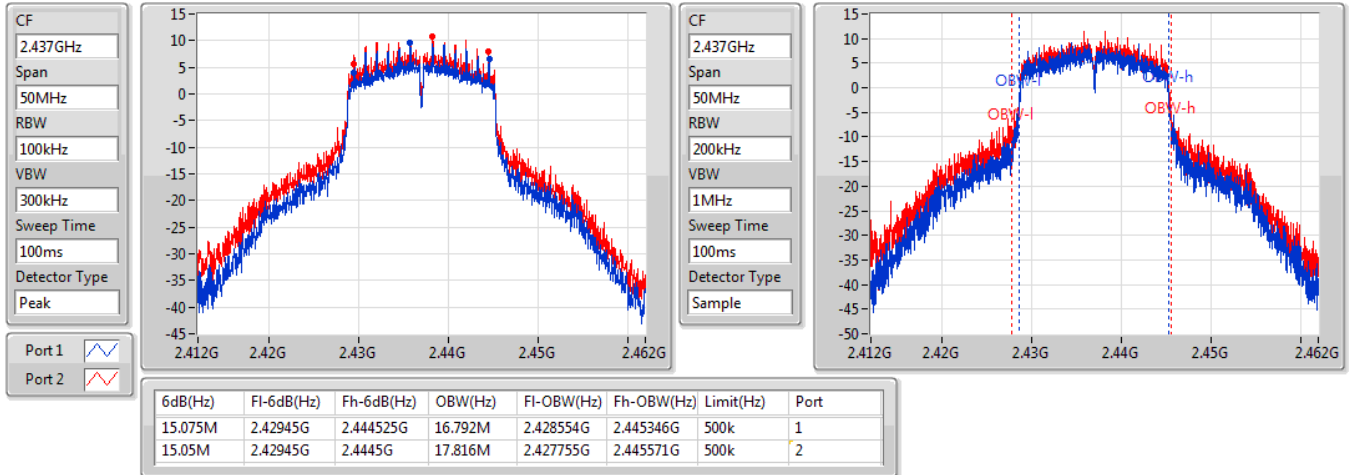


802.11g_Nss1,(6Mbps)_2TX

EBW

2437MHz

03/11/2019

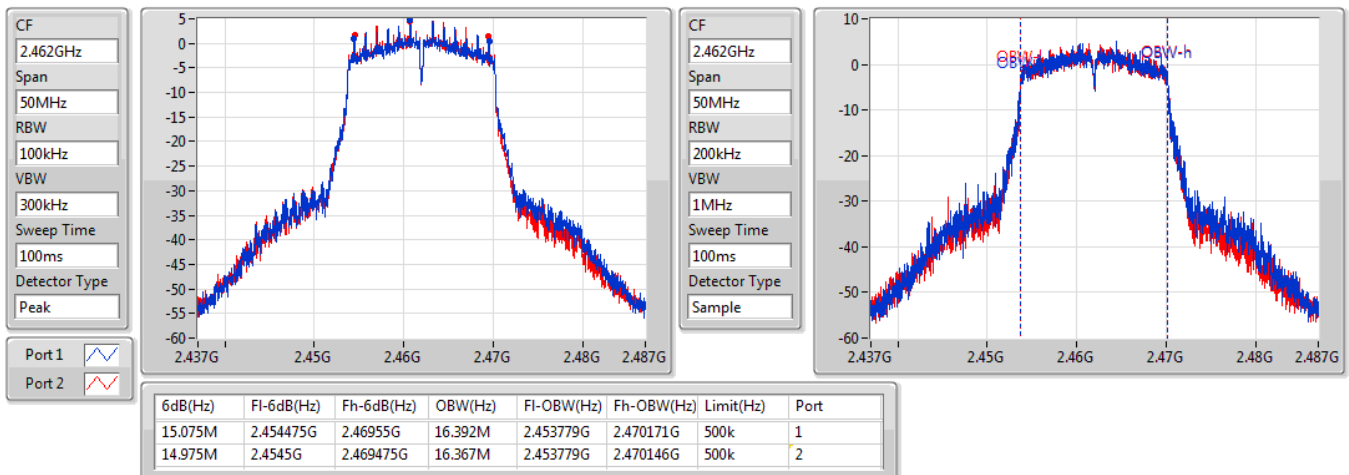


802.11g_Nss1,(6Mbps)_2TX

EBW

2462MHz

03/11/2019

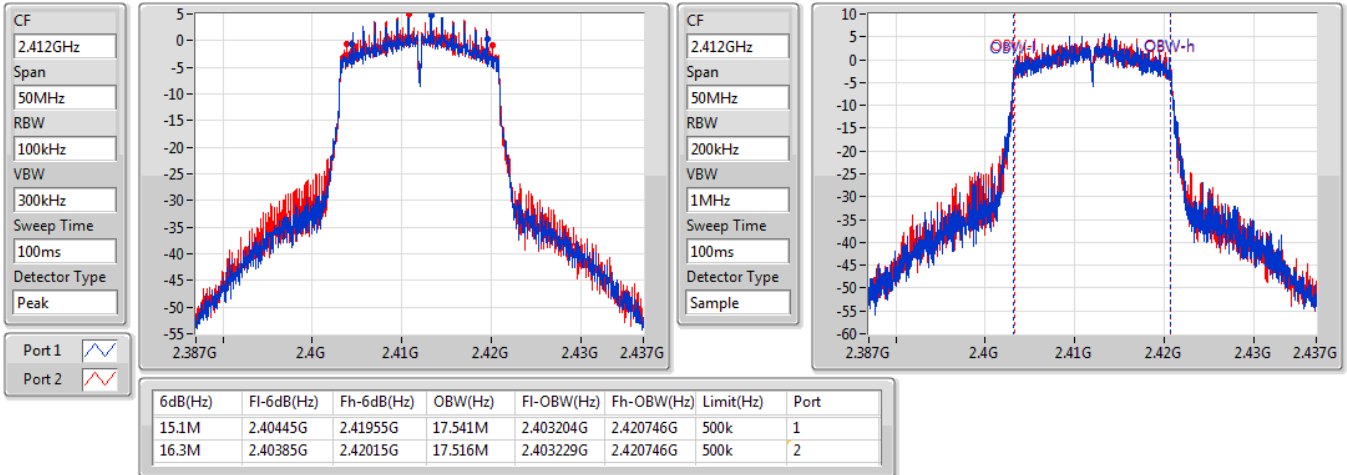


802.11n HT20_Nss1,(MCS0)_2TX

EBW

2412MHz

03/11/2019

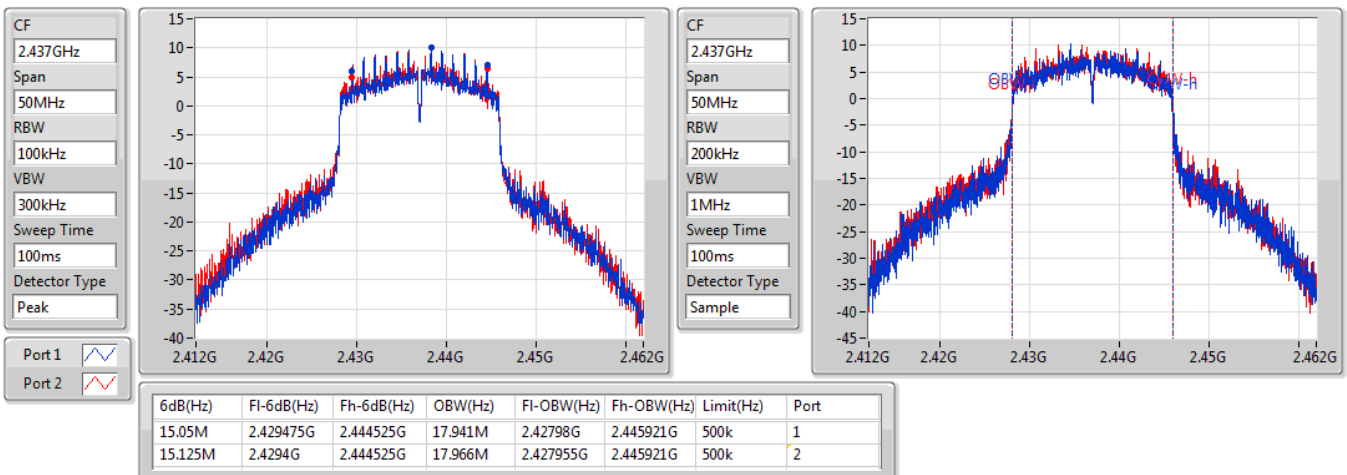


802.11n HT20_Nss1,(MCS0)_2TX

EBW

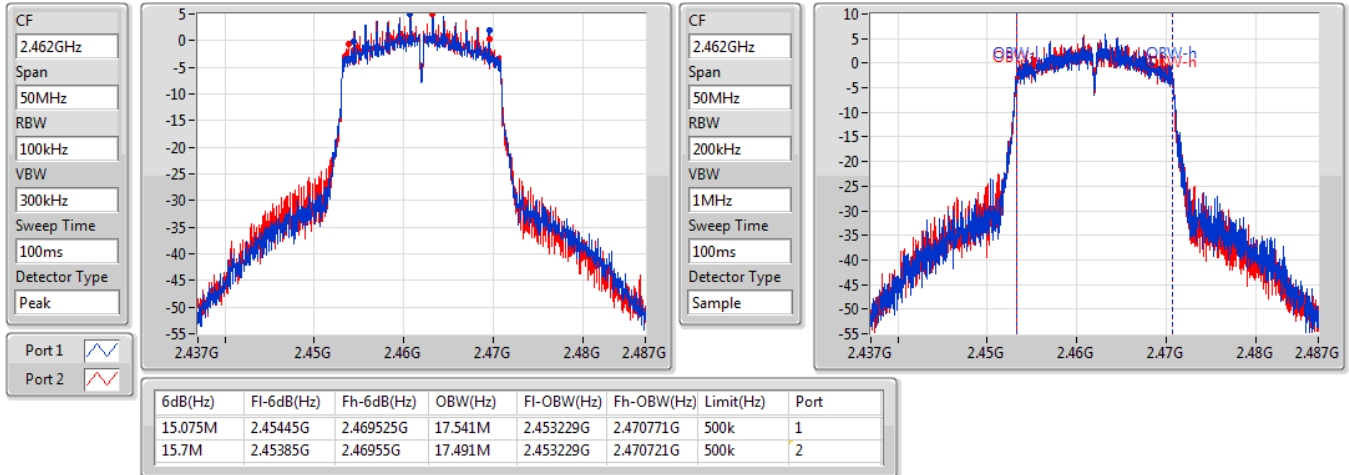
2437MHz

03/11/2019

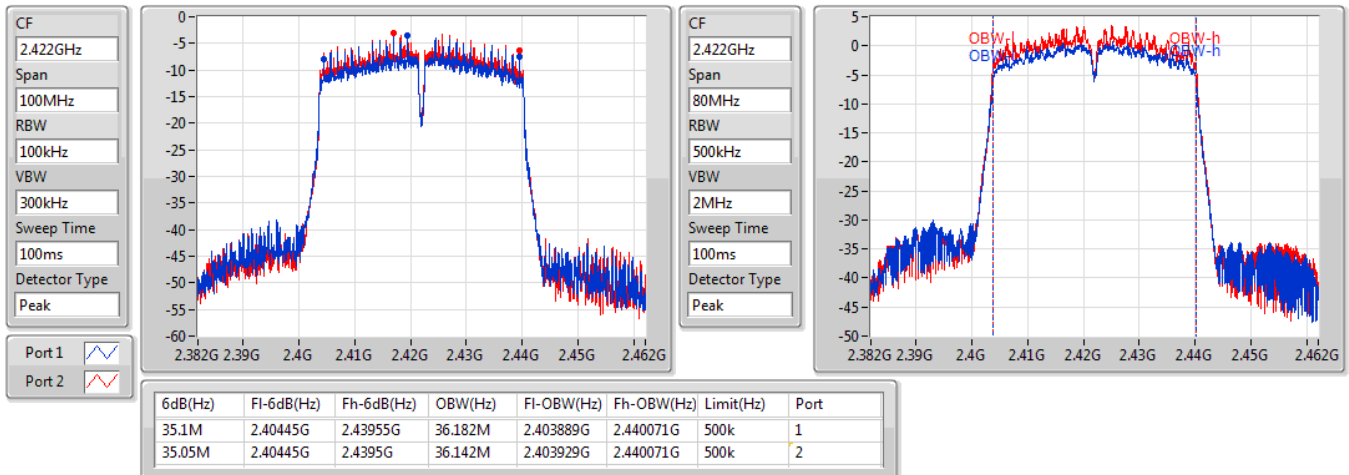


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2462MHz

04/11/2019


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2422MHz

20/11/2019

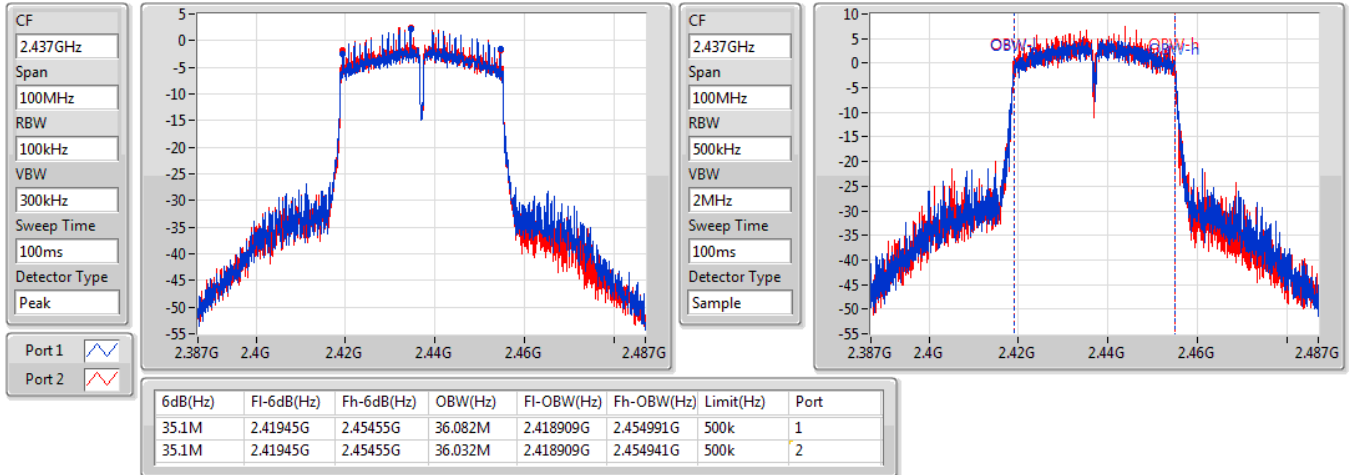


802.11n HT40_Nss1,(MCS0)_2TX

EBW

2437MHz

04/11/2019

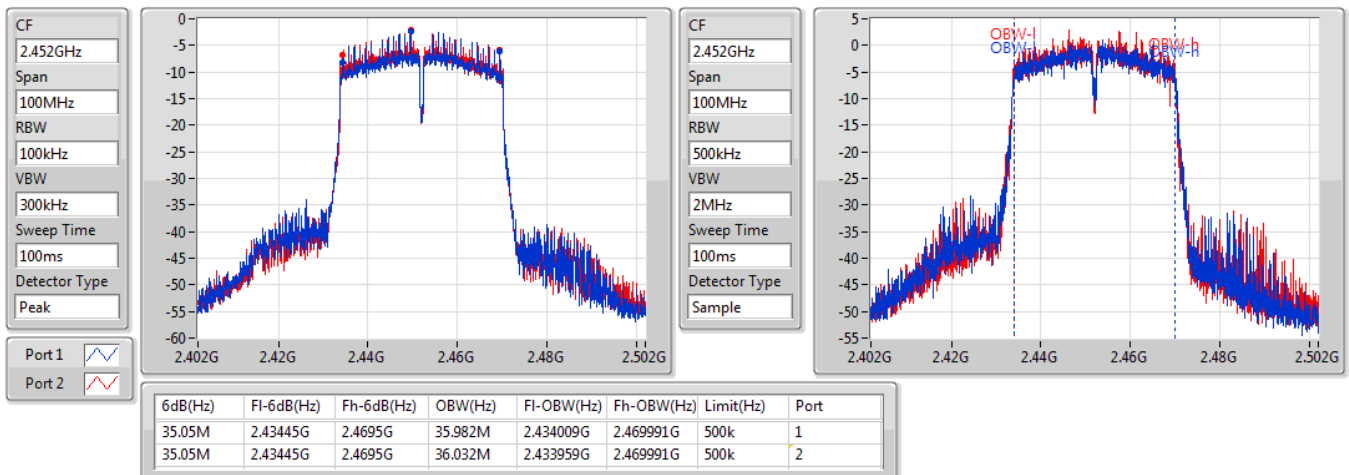


802.11n HT40_Nss1,(MCS0)_2TX

EBW

2452MHz

04/11/2019





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	24.29	0.26853
802.11g_Nss1,(6Mbps)_2TX	24.22	0.26424
802.11n HT20_Nss1,(MCS0)_2TX	23.99	0.25061
802.11n HT40_Nss1,(MCS0)_2TX	19.23	0.08375

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.74	21.17	21.38	24.29	30.00
2437MHz	Pass	3.74	19.74	19.99	22.88	30.00
2457MHz	Pass	3.74	19.59	19.59	22.60	30.00
2462MHz	Pass	3.74	18.19	18.69	21.46	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.74	16.18	16.19	19.20	30.00
2417MHz	Pass	3.74	19.29	19.30	22.31	30.00
2437MHz	Pass	3.74	20.57	21.77	24.22	30.00
2457MHz	Pass	3.74	19.76	19.86	22.82	30.00
2462MHz	Pass	3.74	15.71	15.73	18.73	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.74	15.93	16.19	19.07	30.00
2417MHz	Pass	3.74	18.94	19.16	22.06	30.00
2437MHz	Pass	3.74	20.68	21.26	23.99	30.00
2457MHz	Pass	3.74	19.12	19.30	22.22	30.00
2462MHz	Pass	3.74	15.99	16.24	19.13	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.74	10.23	10.73	13.50	30.00
2427MHz	Pass	3.74	11.28	11.69	14.50	30.00
2437MHz	Pass	3.74	16.13	16.31	19.23	30.00
2447MHz	Pass	3.74	12.14	12.46	15.31	30.00
2452MHz	Pass	3.74	11.54	11.83	14.70	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-2.52
802.11g_Nss1,(6Mbps)_2TX	-3.23
802.11n HT20_Nss1,(MCS0)_2TX	-3.90
802.11n HT40_Nss1,(MCS0)_2TX	-11.90

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.75	-4.24	-5.38	-2.52	7.25
2437MHz	Pass	6.75	-6.32	-5.89	-4.21	7.25
2462MHz	Pass	6.75	-8.94	-8.70	-6.39	7.25
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.75	-11.41	-10.76	-8.40	7.25
2437MHz	Pass	6.75	-6.26	-5.22	-3.23	7.25
2462MHz	Pass	6.75	-11.42	-10.92	-8.95	7.25
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.75	-10.40	-10.20	-8.42	7.25
2437MHz	Pass	6.75	-5.72	-5.60	-3.90	7.25
2462MHz	Pass	6.75	-10.26	-10.34	-8.76	7.25
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.75	-19.40	-18.51	-16.58	7.25
2437MHz	Pass	6.75	-14.08	-13.30	-11.90	7.25
2452MHz	Pass	6.75	-17.97	-17.30	-16.45	7.25

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

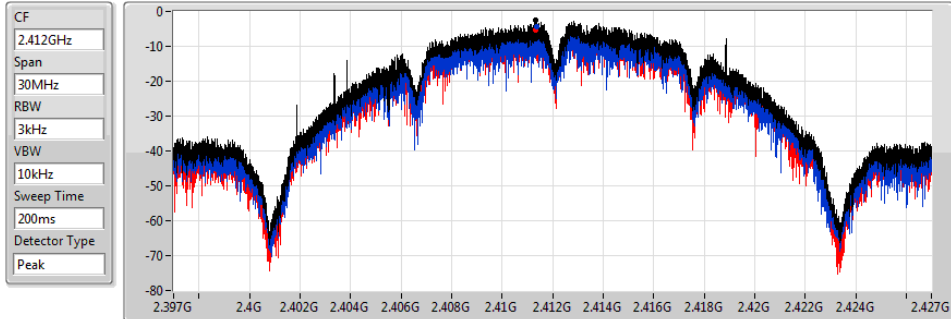
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

03/11/2019



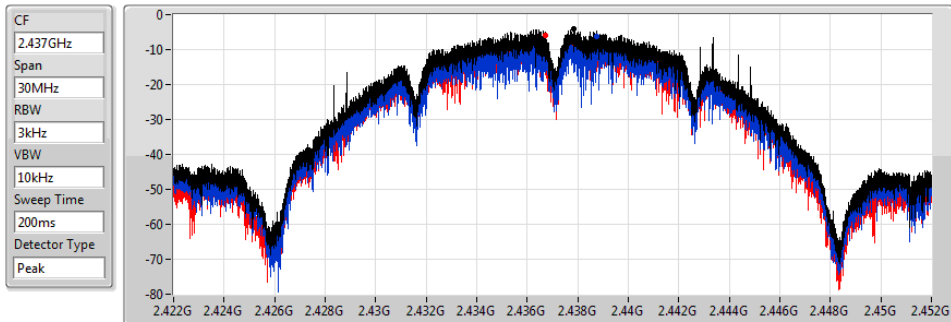
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.52	-2.52	-4.24	-5.38

802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

03/11/2019



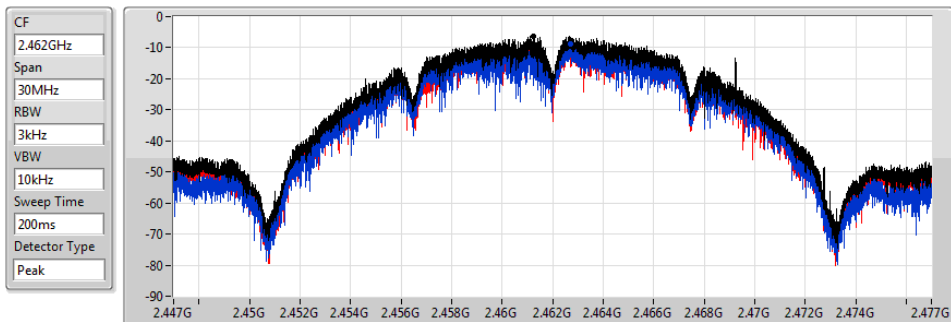
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-4.21	-4.21	-6.32	-5.89

802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

03/11/2019



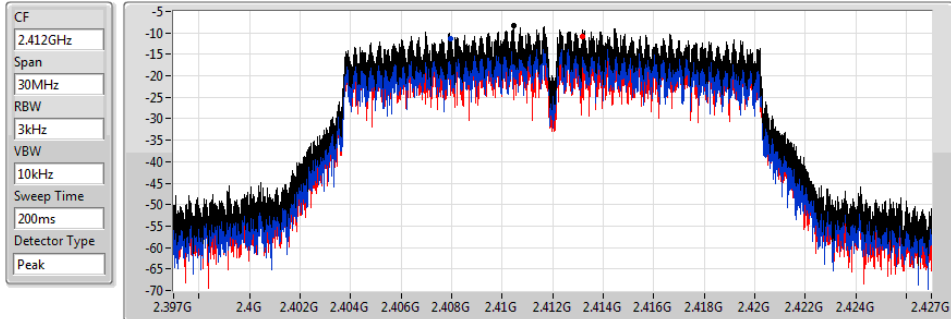
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-6.39	-6.39	-8.94	-8.70

802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

03/11/2019



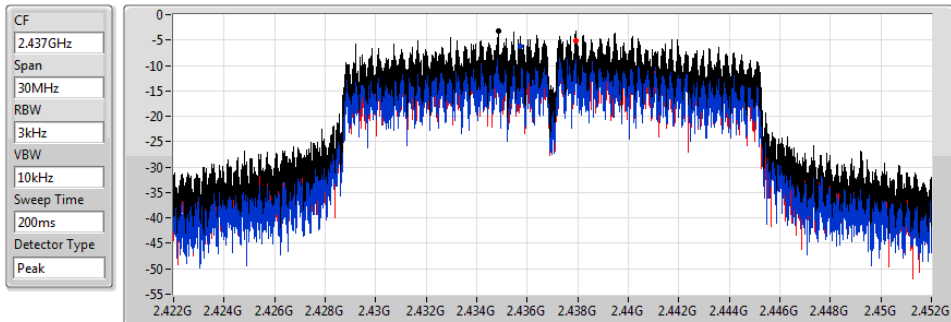
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-8.40	-8.40	-11.41	-10.76

802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

03/11/2019



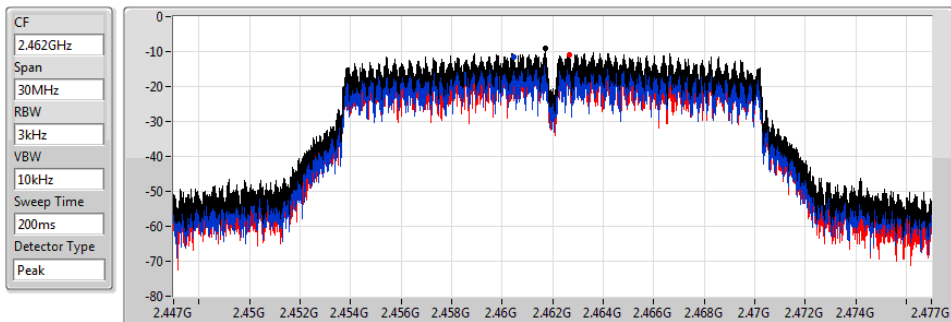
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-3.23	-3.23	-6.26	-5.22

802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

03/11/2019



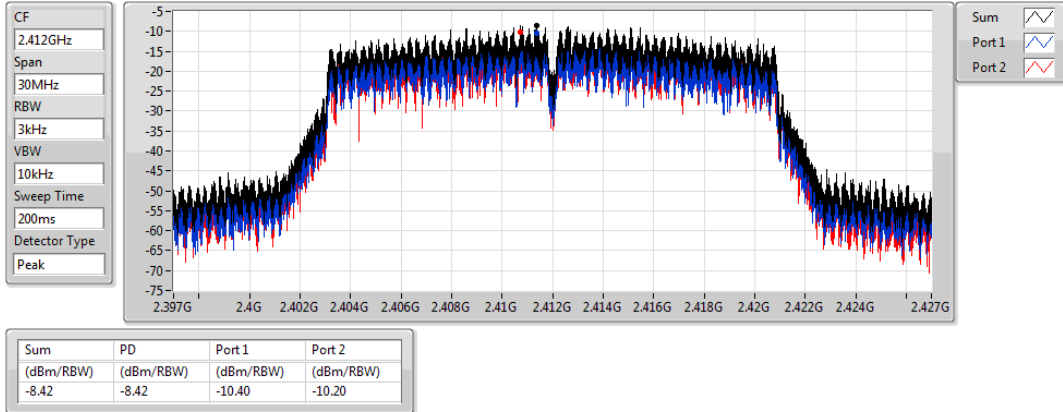
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-8.95	-8.95	-11.42	-10.92

802.11n HT20_Nss1,(MCS0)_2TX

PSD

2412MHz

03/11/2019

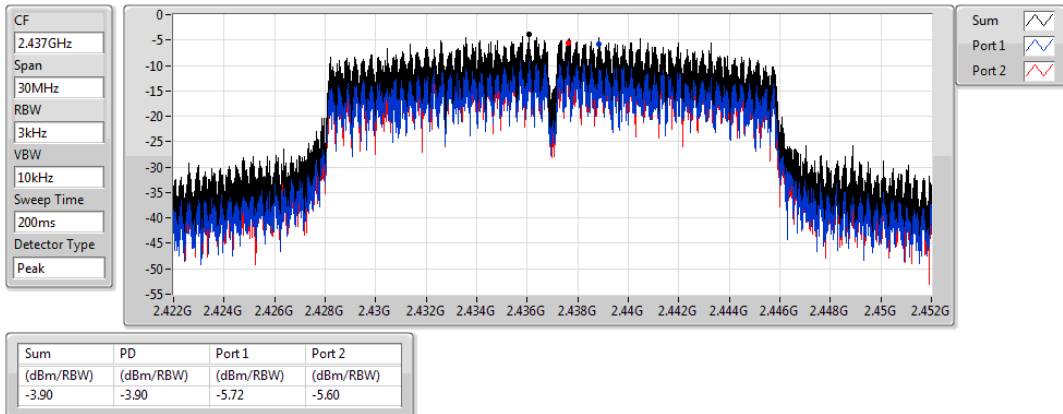


802.11n HT20_Nss1,(MCS0)_2TX

PSD

2437MHz

03/11/2019

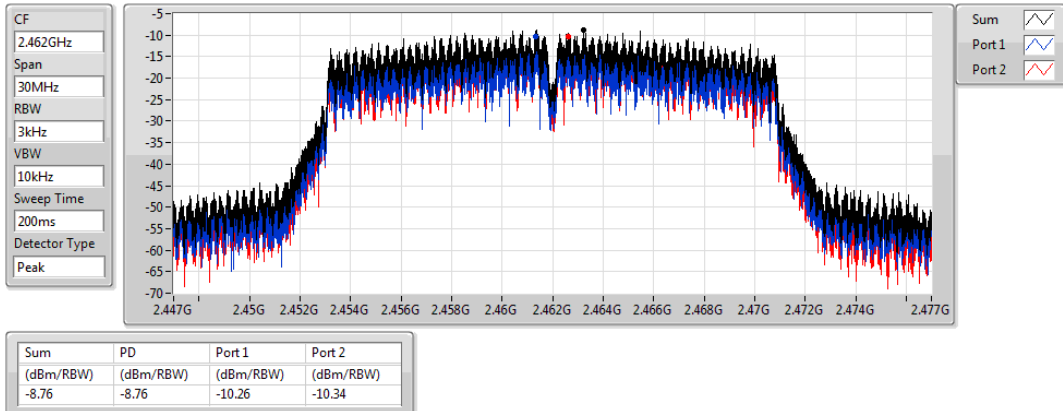


802.11n HT20_Nss1,(MCS0)_2TX

PSD

2462MHz

04/11/2019

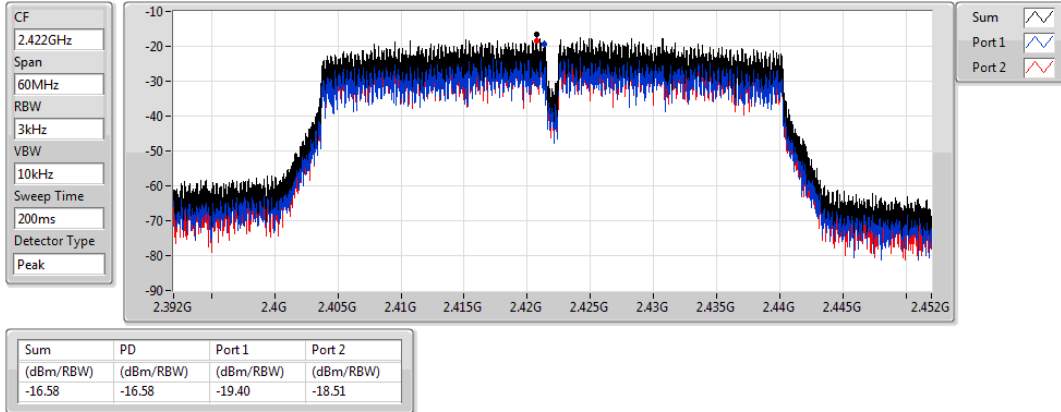


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2422MHz

20/11/2019

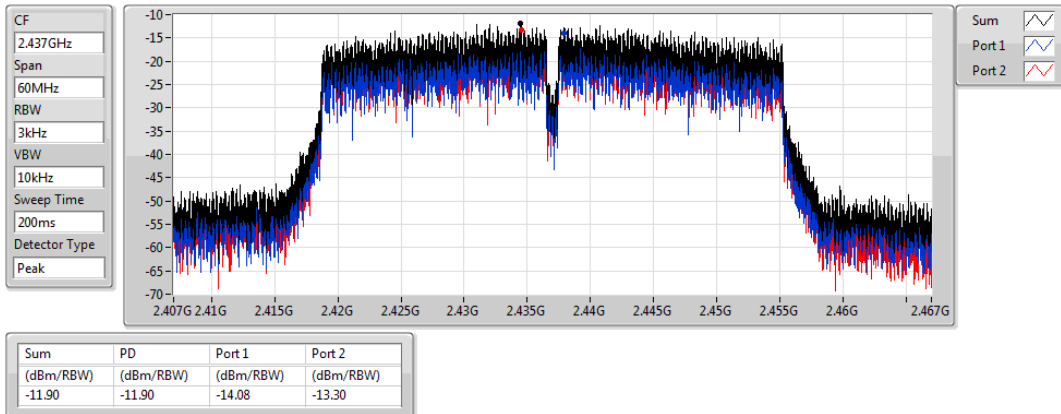


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2437MHz

04/11/2019

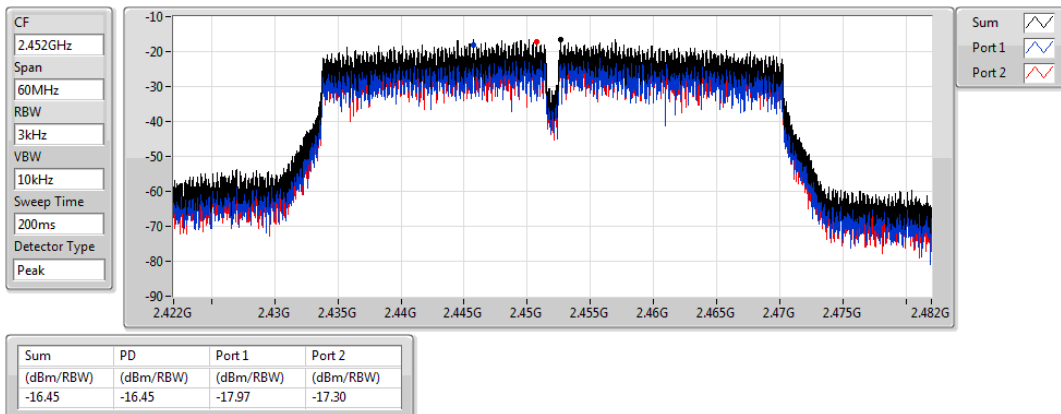


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2452MHz

04/11/2019





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.41106G	11.50	-18.50	2.30699G	-53.98	2.3971G	-23.15	2.50168G	-52.53	24.36504G	-40.04	1		
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43574G	10.71	-19.29	2.30029G	-55.06	2.39876G	-28.94	2.4956G	-52.29	23.30583G	-40.62	2		
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.43574G	10.21	-19.79	863.56M	-54.34	2.3995G	-26.46	2.49988G	-52.15	23.3536G	-40.31	2		
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.43449G	2.58	-27.42	2.30254G	-53.45	2.39952G	-33.36	2.4G	-35.18	2.4851G	-46.44	23.4014G	-40.90	2

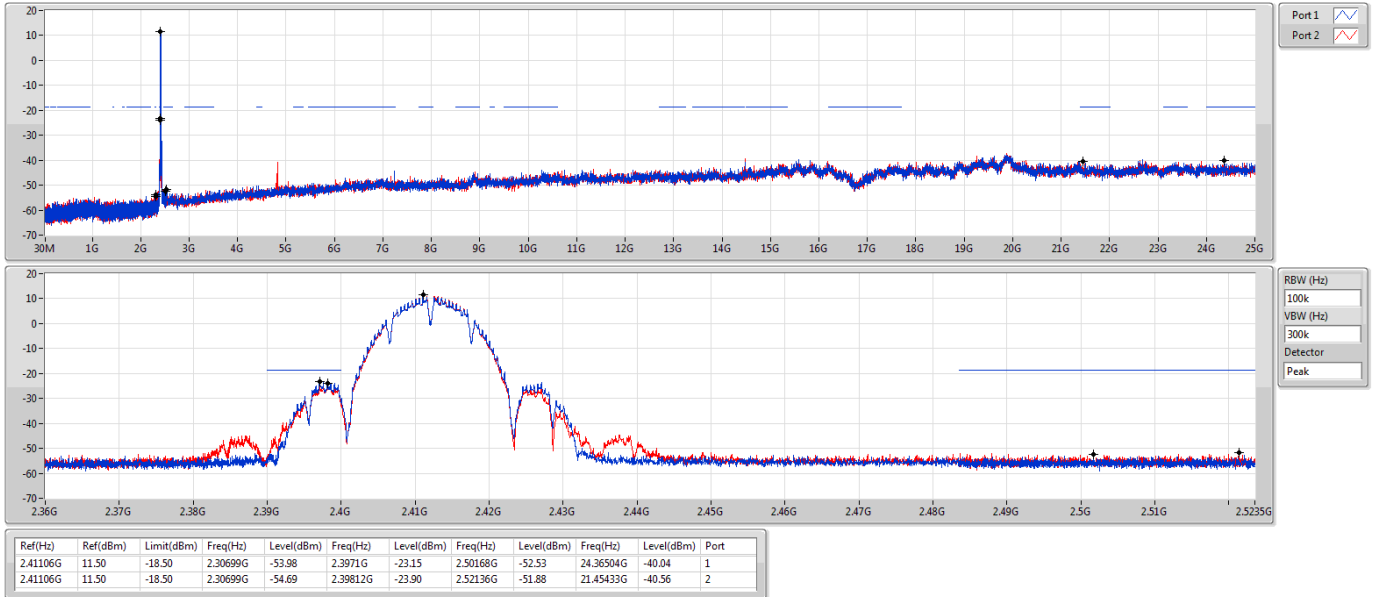
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41106G	11.50	-18.50	2.30699G	-53.98	2.3971G	-23.15	2.50168G	-52.53	24.36504G	-40.04	1		
2412MHz	Pass	2.41106G	11.50	-18.50	2.30699G	-54.69	2.39812G	-23.90	2.52136G	-51.88	21.45433G	-40.56	2		
2437MHz	Pass	2.41106G	11.50	-18.50	805.6M	-54.47	2.39418G	-51.46	2.51564G	-52.06	15.20306G	-39.18	1		
2437MHz	Pass	2.41106G	11.50	-18.50	2.1503G	-54.80	2.3971G	-52.58	2.48518G	-52.05	24.93538G	-39.26	2		
2462MHz	Pass	2.41106G	11.50	-18.50	1.91177G	-55.04	2.39474G	-54.26	2.48708G	-49.48	23.40698G	-40.75	1		
2462MHz	Pass	2.41106G	11.50	-18.50	867.93M	-54.04	2.39332G	-53.55	2.48756G	-48.49	16.25945G	-40.11	2		
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	10.71	-19.29	2.12496G	-55.10	2.39988G	-29.30	2.50382G	-51.43	25G	-40.56	1		
2412MHz	Pass	2.43574G	10.71	-19.29	2.30029G	-55.06	2.39876G	-28.94	2.4956G	-52.29	23.30583G	-40.62	2		
2437MHz	Pass	2.43574G	10.71	-19.29	2.18321G	-53.57	2.39934G	-47.49	2.51998G	-51.33	21.68472G	-40.65	1		
2437MHz	Pass	2.43574G	10.71	-19.29	2.10749G	-54.94	2.39952G	-43.74	2.48482G	-48.00	23.39293G	-40.00	2		
2462MHz	Pass	2.43574G	10.71	-19.29	1.96565G	-55.47	2.3969G	-52.64	2.48386G	-46.17	23.41541G	-39.70	1		
2462MHz	Pass	2.43574G	10.71	-19.29	2.00468G	-54.54	2.39218G	-52.36	2.48418G	-46.96	15.2761G	-40.50	2		
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	10.21	-19.79	2.08535G	-54.38	2.39944G	-29.45	2.50494G	-52.06	23.39293G	-40.23	1		
2412MHz	Pass	2.43574G	10.21	-19.79	863.56M	-54.34	2.3995G	-26.46	2.49988G	-52.15	23.3536G	-40.31	2		
2437MHz	Pass	2.43574G	10.21	-19.79	2.03001G	-54.99	2.39978G	-47.40	2.48408G	-49.46	24.21894G	-40.23	1		
2437MHz	Pass	2.43574G	10.21	-19.79	795.11M	-55.14	2.3995G	-43.00	2.4851G	-47.30	16.23136G	-40.40	2		
2462MHz	Pass	2.43574G	10.21	-19.79	933.46M	-54.79	2.3993G	-52.33	2.48354G	-42.37	23.37326G	-39.41	1		
2462MHz	Pass	2.43574G	10.21	-19.79	2.11302G	-54.60	2.39474G	-52.67	2.48638G	-44.23	24.92976G	-39.76	2		
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43449G	2.58	-27.42	2.17974G	-55.03	2.3962G	-37.01	2.4G	-43.53	2.51502G	-53.04	16.62838G	-40.52	1
2422MHz	Pass	2.43449G	2.58	-27.42	2.12192G	-55.70	2.39616G	-38.03	2.4G	-43.83	2.49182G	-53.07	23.35933G	-40.52	2
2437MHz	Pass	2.43449G	2.58	-27.42	2.16428G	-54.53	2.39952G	-33.80	2.4G	-36.12	2.48506G	-45.91	23.51919G	-40.50	1
2437MHz	Pass	2.43449G	2.58	-27.42	2.30254G	-53.45	2.39952G	-33.36	2.4G	-35.18	2.4851G	-46.44	23.4014G	-40.90	2
2452MHz	Pass	2.43449G	2.58	-27.42	2.18804G	-56.22	2.39944G	-51.60	2.4835G	-44.44	2.48458G	-38.82	23.47432G	-40.44	1
2452MHz	Pass	2.43449G	2.58	-27.42	2.30225G	-53.89	2.39988G	-51.73	2.4835G	-44.27	2.48458G	-38.52	16.23574G	-41.13	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

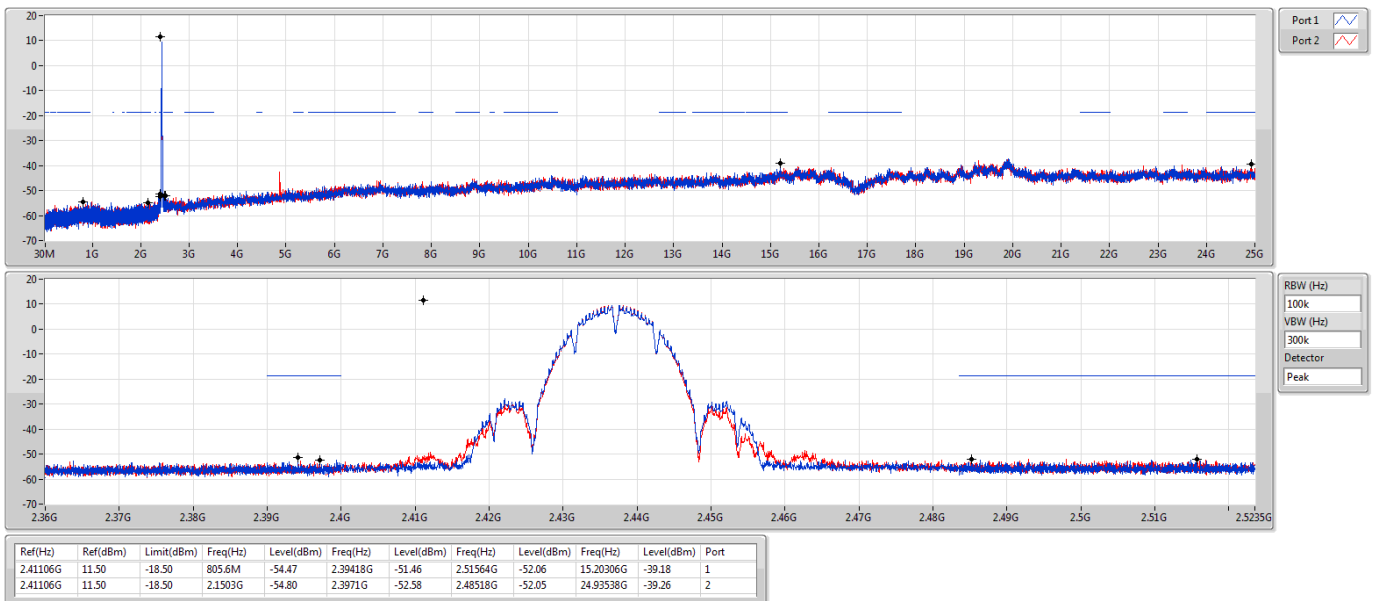
2412MHz



802.11b_Nss1,(1Mbps)_2TX

CSE NdB

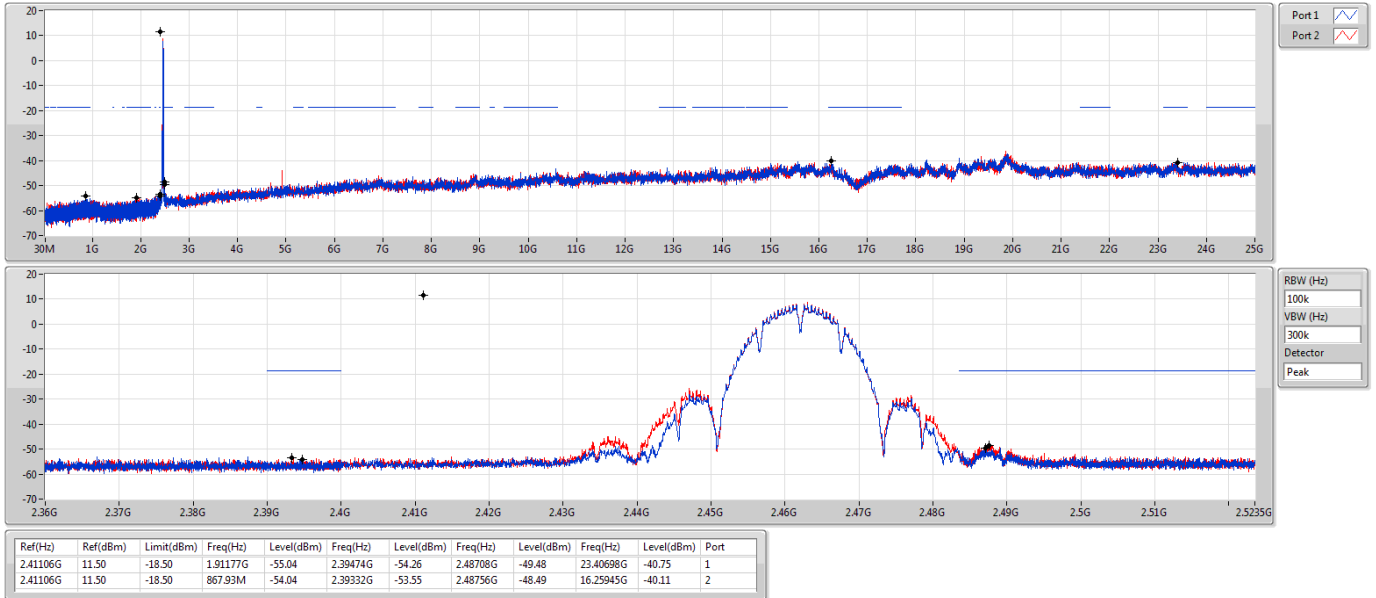
2437MHz



802.11b_Nss1,(1Mbps)_2TX

CSE NdB

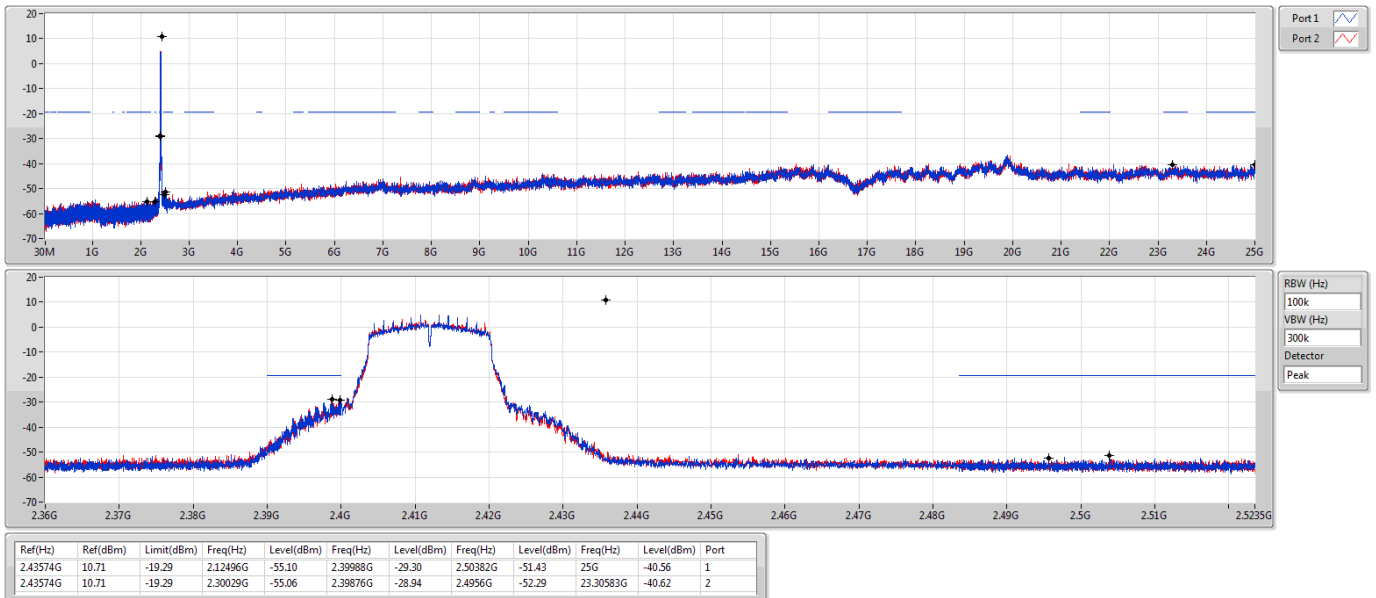
2462MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

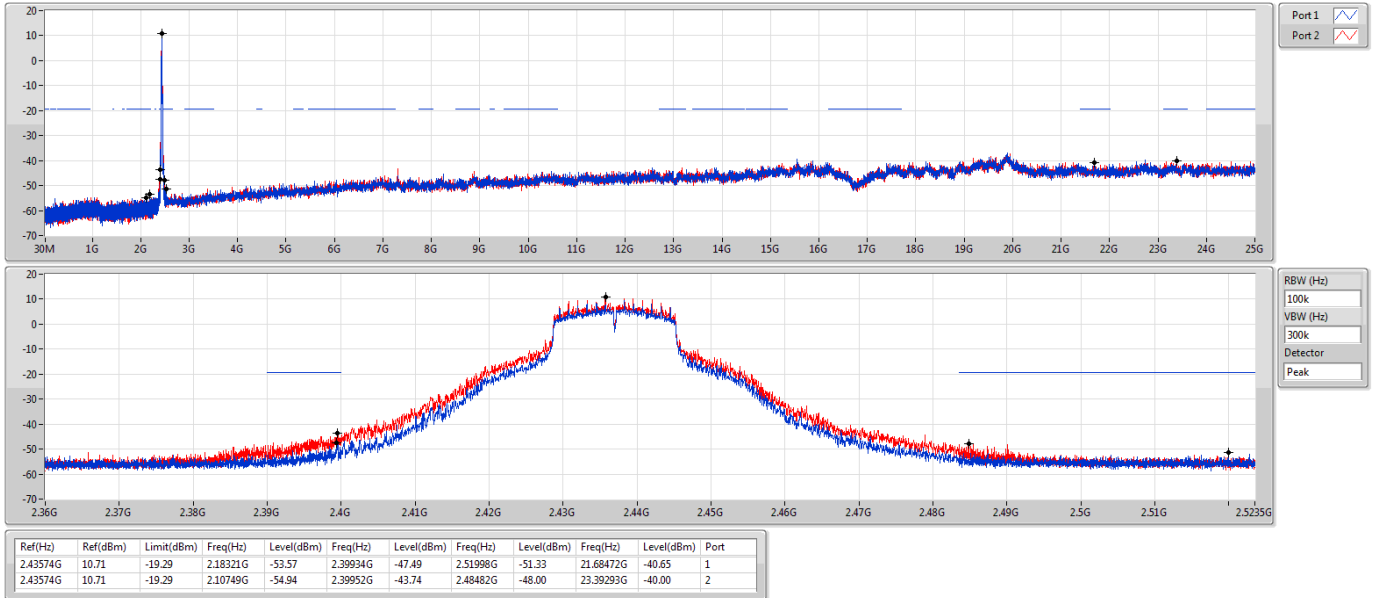
2412MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

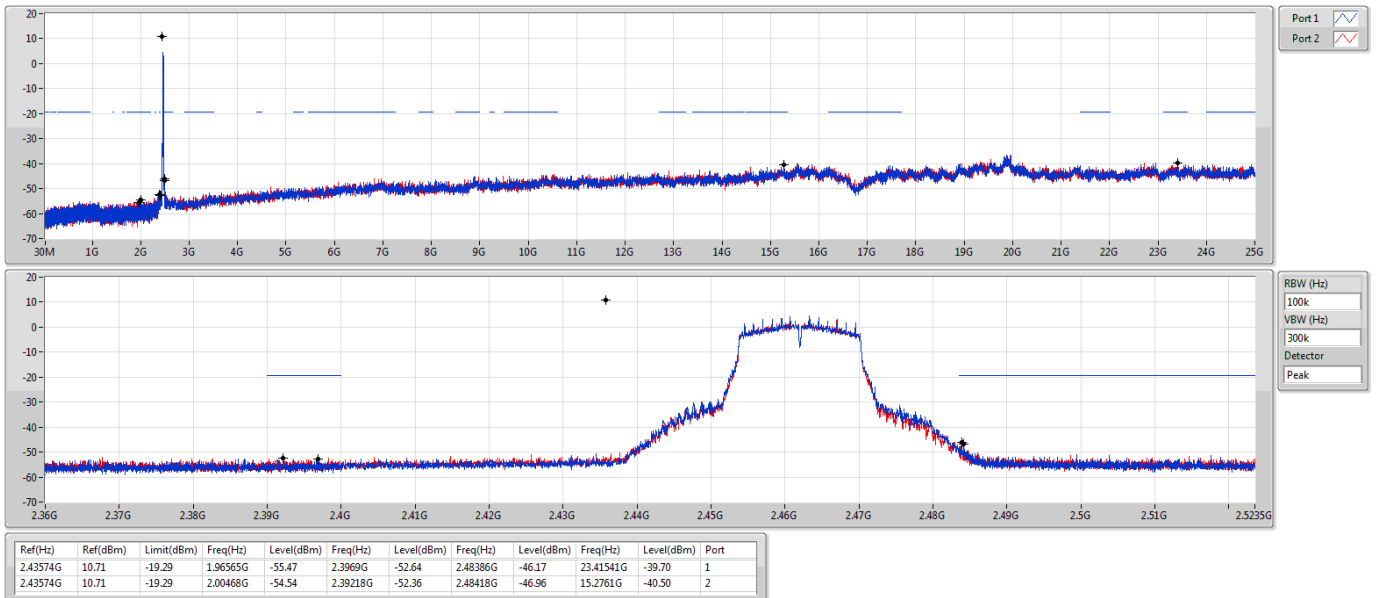
2437MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

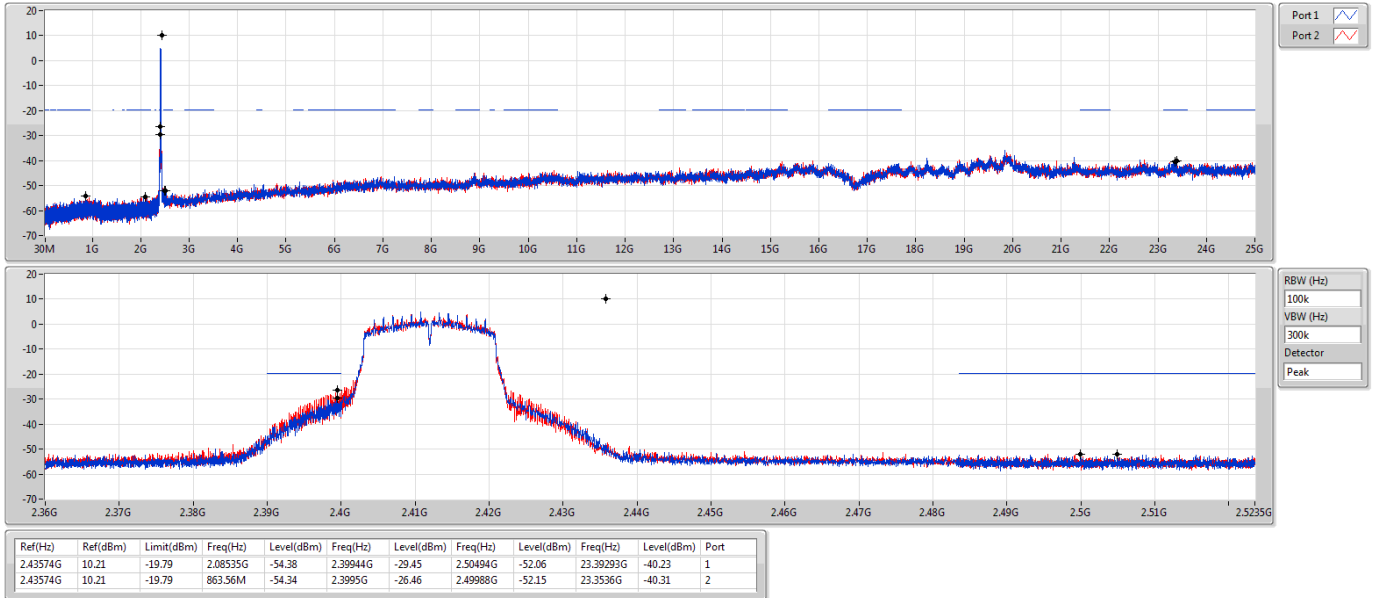
2462MHz



802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

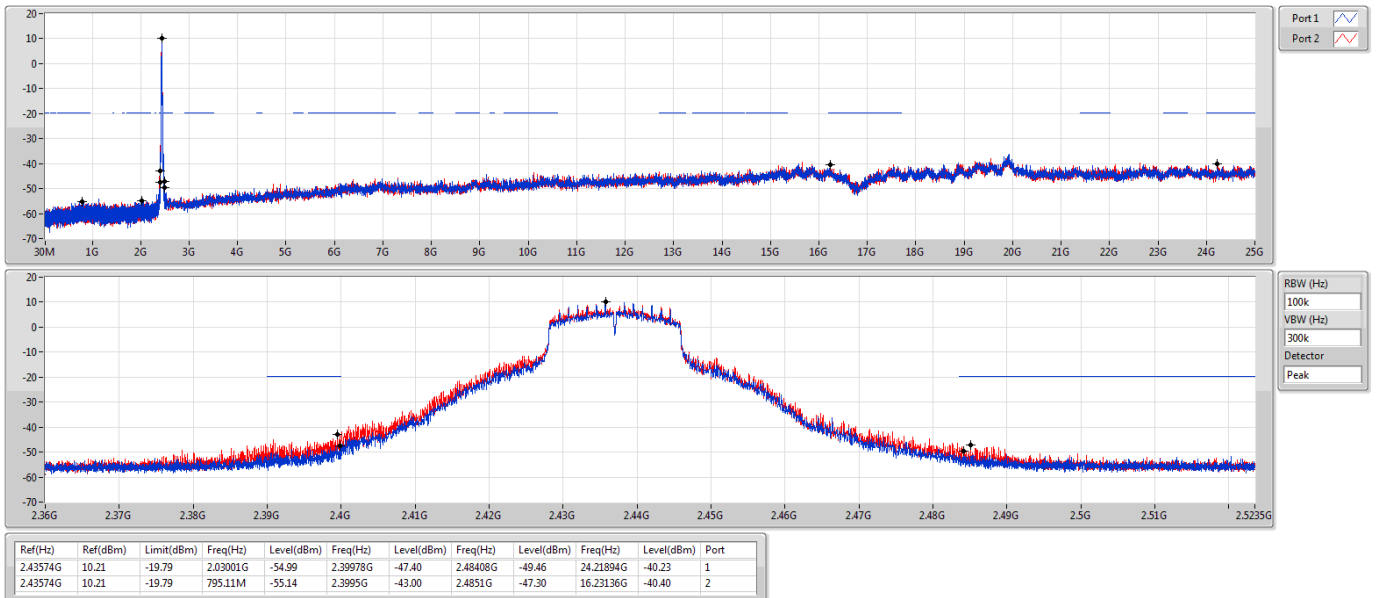
2412MHz



802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

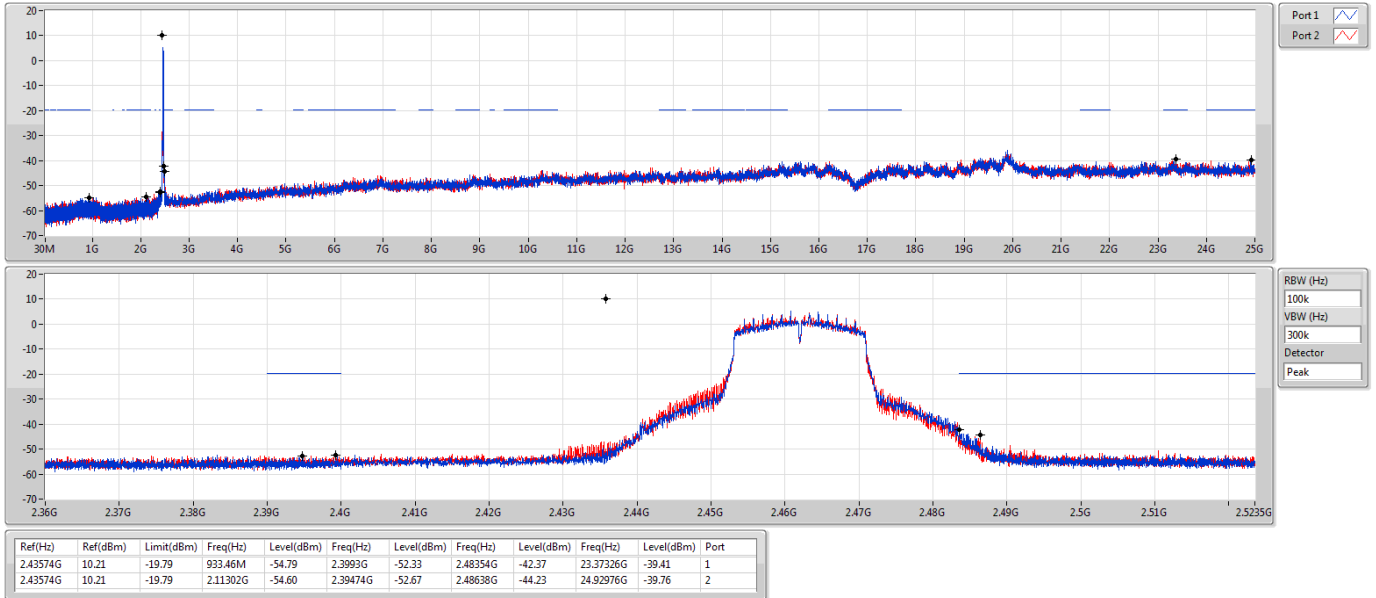
2437MHz



802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

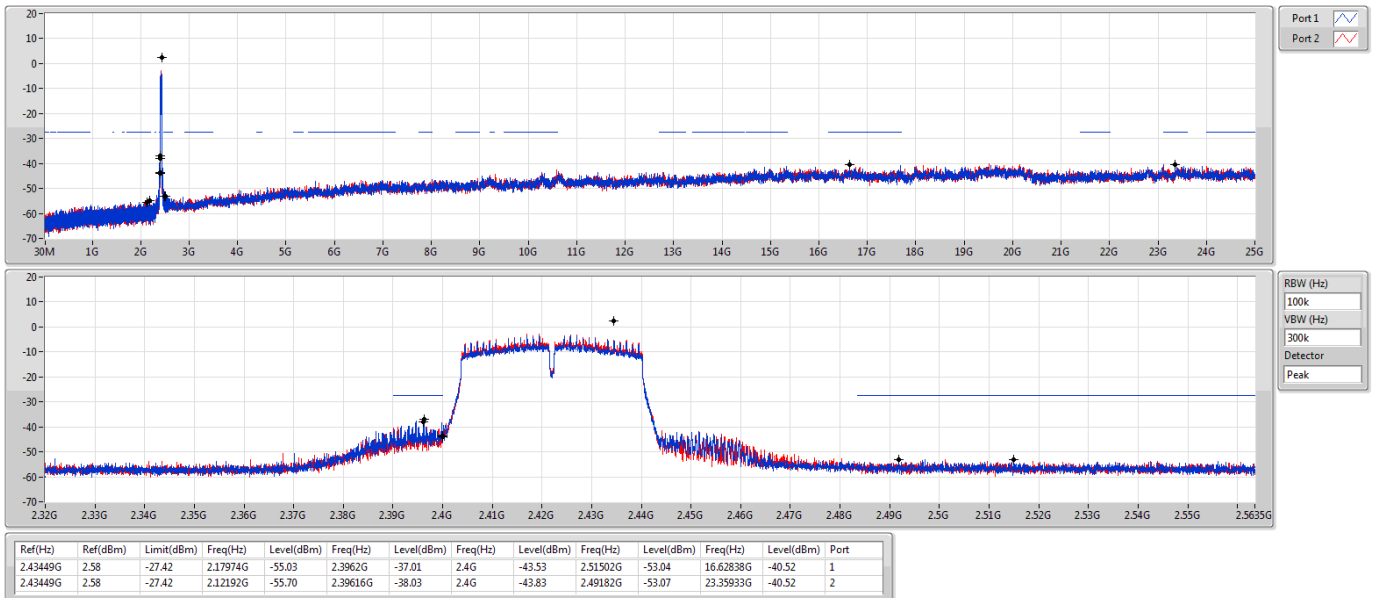
2462MHz



802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

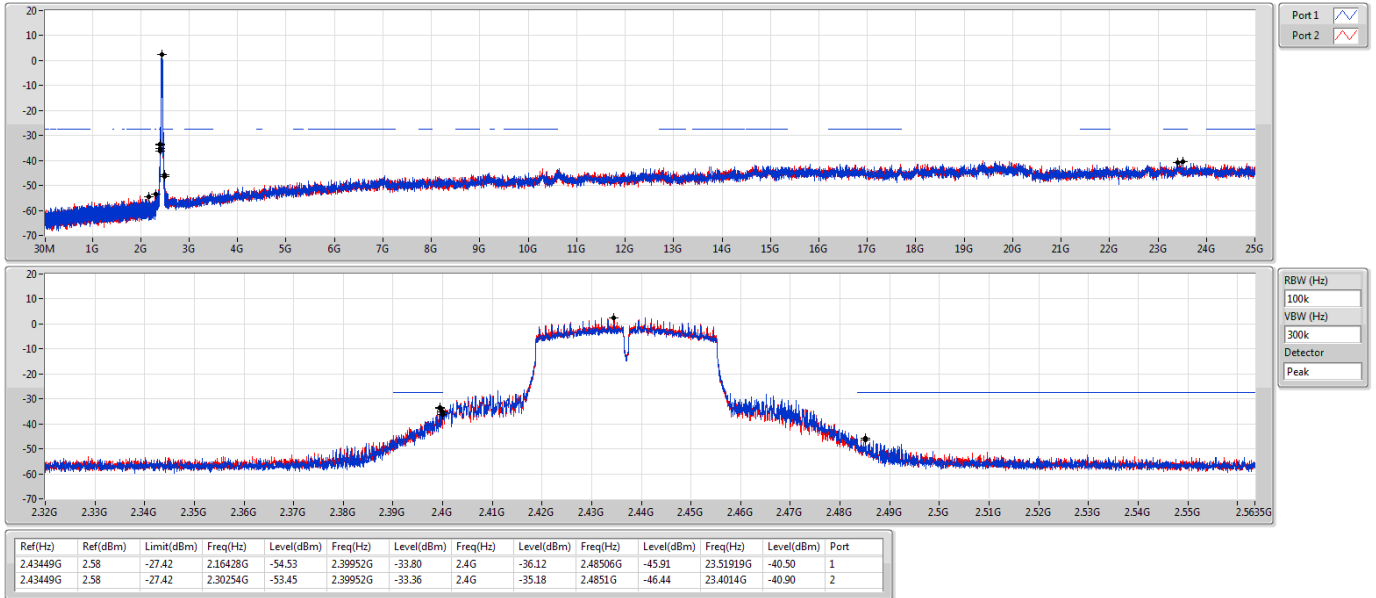
2422MHz



802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

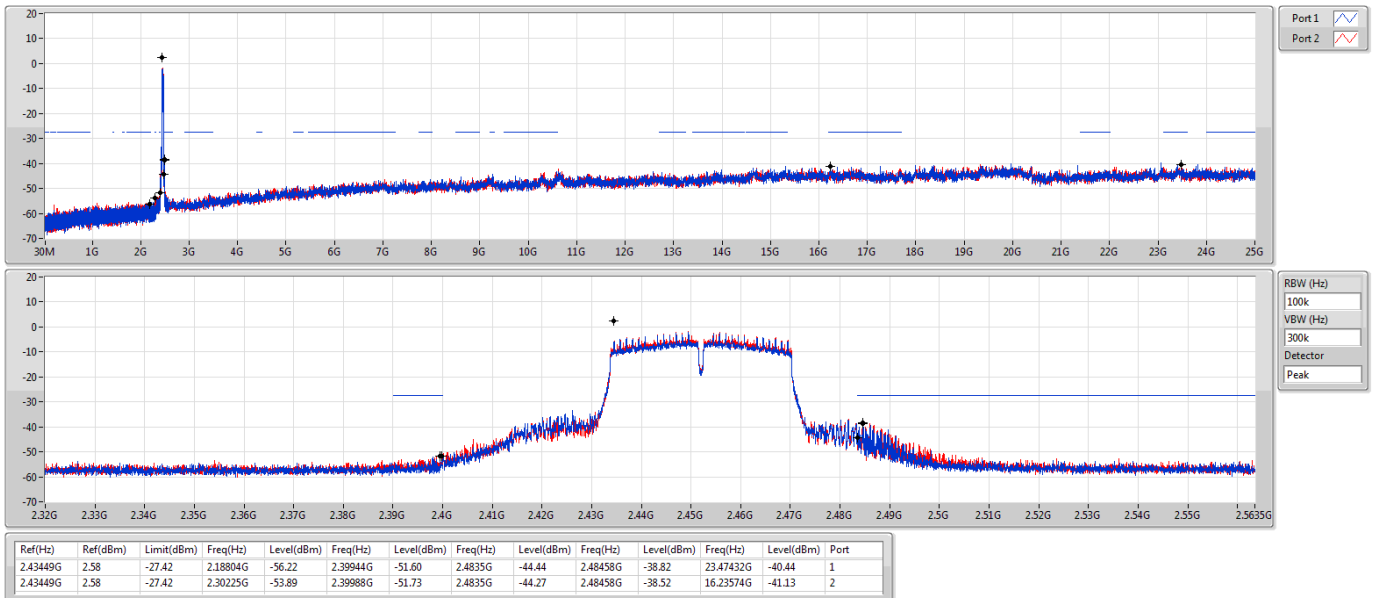
2437MHz



802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

2452MHz





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)_2TX	Pass	PK	41.64M	36.41	40.00	-3.59	3	Vertical	0	1.00	-

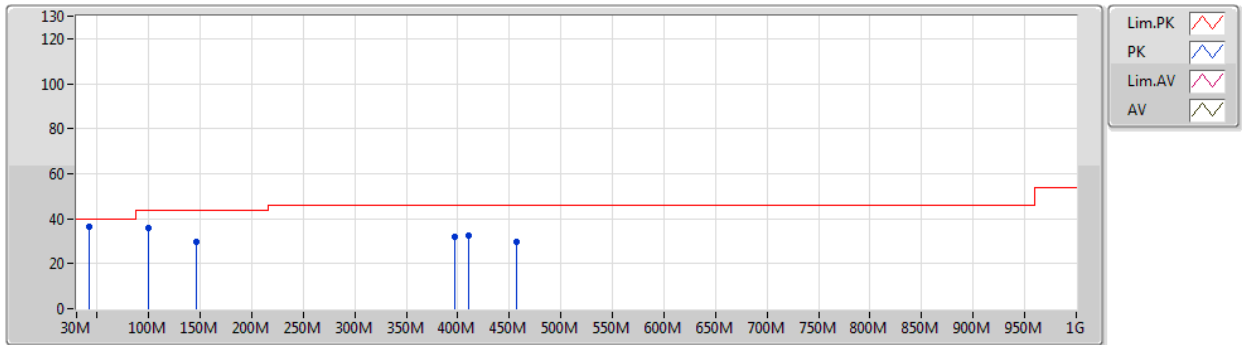
Result

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)_2TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz_USB	Pass	PK	41.64M	36.41	40.00	-3.59	3	Vertical	0	1.00	-
2437MHz_USB	Pass	PK	99.84M	36.06	43.50	-7.44	3	Vertical	0	1.00	-
2437MHz_USB	Pass	PK	146.4M	29.46	43.50	-14.04	3	Vertical	0	1.00	-
2437MHz_USB	Pass	PK	396.66M	31.98	46.00	-14.02	3	Vertical	0	1.00	-
2437MHz_USB	Pass	PK	410.24M	32.39	46.00	-13.61	3	Vertical	0	1.00	-
2437MHz_USB	Pass	PK	456.8M	29.93	46.00	-16.07	3	Vertical	0	1.00	-
2437MHz_USB	Pass	PK	99.84M	36.06	43.50	-7.44	3	Horizontal	360	1.00	-
2437MHz_USB	Pass	PK	142.52M	33.98	43.50	-9.52	3	Horizontal	360	1.00	-
2437MHz_USB	Pass	PK	266.68M	36.22	46.00	-9.78	3	Horizontal	360	1.00	-
2437MHz_USB	Pass	PK	412.18M	33.23	46.00	-12.77	3	Horizontal	360	1.00	-
2437MHz_USB	Pass	PK	456.8M	29.93	46.00	-16.07	3	Horizontal	360	1.00	-
2437MHz_USB	Pass	PK	507.24M	27.91	46.00	-18.09	3	Horizontal	360	1.00	-

802.11n HT40_Nss1,(MCS0)_2TX

02/11/2019

2437MHz_USB

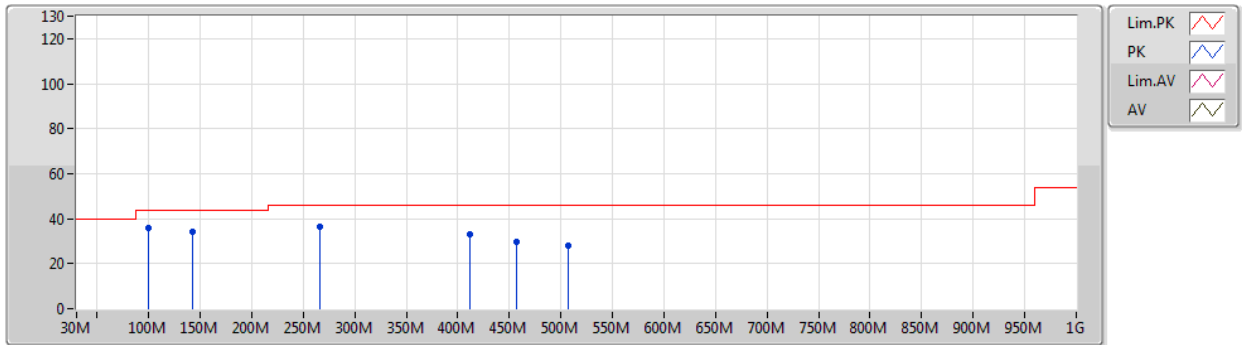


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	41.64M	36.41	40.00	-3.59	-9.86	3	Vertical	0	1.00	-	46.27	16.72	0.95	27.53
PK	99.84M	36.06	43.50	-7.44	-9.79	3	Vertical	0	1.00	-	45.85	16.07	1.52	27.38
PK	146.4M	29.46	43.50	-14.04	-9.57	3	Vertical	0	1.00	-	39.03	15.77	1.86	27.20
PK	396.66M	31.98	46.00	-14.02	-3.39	3	Vertical	0	1.00	-	35.37	20.71	3.17	27.27
PK	410.24M	32.39	46.00	-13.61	-2.77	3	Vertical	0	1.00	-	35.16	21.38	3.22	27.37
PK	456.8M	29.93	46.00	-16.07	-2.20	3	Vertical	0	1.00	-	32.13	22.09	3.42	27.71

802.11n HT40_Nss1,(MCS0)_2TX

02/11/2019

2437MHz_USB



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	99.84M	36.06	43.50	-7.44	-9.79	3	Horizontal	360	1.00	-	45.85	16.07	1.52	27.38
PK	142.52M	33.98	43.50	-9.52	-9.36	3	Horizontal	360	1.00	-	43.34	16.02	1.84	27.22
PK	266.68M	36.22	46.00	-9.78	-5.70	3	Horizontal	360	1.00	-	41.92	18.45	2.57	26.72
PK	412.18M	33.23	46.00	-12.77	-2.67	3	Horizontal	360	1.00	-	35.90	21.49	3.23	27.39
PK	456.8M	29.93	46.00	-16.07	-2.20	3	Horizontal	360	1.00	-	32.13	22.09	3.42	27.71
PK	507.24M	27.91	46.00	-18.09	-1.57	3	Horizontal	360	1.00	-	29.48	22.66	3.63	27.86

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	4.824G	52.83	54.00	-1.17	3	Horizontal	214	1.04	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.39G	52.62	54.00	-1.38	3	Vertical	197	1.14	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.4848G	52.88	54.00	-1.12	3	Vertical	196	1.00	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	AV	2.484G	52.87	54.00	-1.13	3	Vertical	192	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	48.39	54.00	-5.61	3	Vertical	191	1.01	-
2412MHz	Pass	AV	2.4112G	111.45	Inf	-Inf	3	Vertical	191	1.01	-
2412MHz	Pass	PK	2.3864G	60.22	74.00	-13.78	3	Vertical	191	1.01	-
2412MHz	Pass	PK	2.4112G	113.89	Inf	-Inf	3	Vertical	191	1.01	-
2412MHz	Pass	AV	2.3856G	48.09	54.00	-5.91	3	Horizontal	176	1.45	-
2412MHz	Pass	AV	2.4128G	108.34	Inf	-Inf	3	Horizontal	176	1.45	-
2412MHz	Pass	PK	2.3832G	59.90	74.00	-14.10	3	Horizontal	176	1.45	-
2412MHz	Pass	PK	2.413G	110.74	Inf	-Inf	3	Horizontal	176	1.45	-
2412MHz	Pass	AV	4.824G	51.73	54.00	-2.27	3	Vertical	199	2.09	-
2412MHz	Pass	PK	4.824G	54.35	74.00	-19.65	3	Vertical	199	2.09	-
2412MHz	Pass	AV	4.824G	52.83	54.00	-1.17	3	Horizontal	214	1.04	-
2412MHz	Pass	PK	4.824G	55.03	74.00	-18.97	3	Horizontal	214	1.04	-
2437MHz	Pass	AV	2.3814G	47.28	54.00	-6.72	3	Vertical	156	1.44	-
2437MHz	Pass	AV	2.4378G	108.27	Inf	-Inf	3	Vertical	156	1.44	-
2437MHz	Pass	AV	2.4846G	47.90	54.00	-6.10	3	Vertical	156	1.44	-
2437MHz	Pass	PK	2.3442G	59.92	74.00	-14.08	3	Vertical	156	1.44	-
2437MHz	Pass	PK	2.4378G	110.70	Inf	-Inf	3	Vertical	156	1.44	-
2437MHz	Pass	PK	2.489G	59.82	74.00	-14.18	3	Vertical	156	1.44	-
2437MHz	Pass	AV	2.361G	47.27	54.00	-6.73	3	Horizontal	205	1.84	-
2437MHz	Pass	AV	2.4378G	105.01	Inf	-Inf	3	Horizontal	205	1.84	-
2437MHz	Pass	AV	2.497G	47.90	54.00	-6.10	3	Horizontal	205	1.84	-
2437MHz	Pass	PK	2.3574G	59.30	74.00	-14.70	3	Horizontal	205	1.84	-
2437MHz	Pass	PK	2.4378G	107.46	Inf	-Inf	3	Horizontal	205	1.84	-
2437MHz	Pass	PK	2.489G	59.32	74.00	-14.68	3	Horizontal	205	1.84	-
2437MHz	Pass	AV	4.87394G	52.12	54.00	-1.88	3	Vertical	170	2.09	-
2437MHz	Pass	AV	7.31022G	46.05	54.00	-7.95	3	Vertical	199	3.00	-
2437MHz	Pass	PK	4.874G	54.96	74.00	-19.04	3	Vertical	170	2.09	-
2437MHz	Pass	PK	7.31112G	54.82	74.00	-19.18	3	Vertical	199	3.00	-
2437MHz	Pass	AV	4.874G	51.71	54.00	-2.29	3	Horizontal	202	1.50	-
2437MHz	Pass	AV	7.31178G	42.22	54.00	-11.78	3	Horizontal	135	1.70	-
2437MHz	Pass	PK	4.87394G	54.80	74.00	-19.20	3	Horizontal	202	1.50	-
2437MHz	Pass	PK	7.31214G	52.95	74.00	-21.05	3	Horizontal	135	1.70	-
2457MHz	Pass	AV	2.4562G	110.33	Inf	-Inf	3	Vertical	165	1.39	-
2457MHz	Pass	AV	2.4842G	47.90	54.00	-6.10	3	Vertical	165	1.39	-
2457MHz	Pass	PK	2.456G	112.72	Inf	-Inf	3	Vertical	165	1.39	-
2457MHz	Pass	PK	2.4858G	60.25	74.00	-13.75	3	Vertical	165	1.39	-
2457MHz	Pass	AV	2.4578G	107.11	Inf	-Inf	3	Horizontal	207	2.18	-
2457MHz	Pass	AV	2.4842G	47.61	54.00	-6.39	3	Horizontal	207	2.18	-
2457MHz	Pass	PK	2.4578G	109.51	Inf	-Inf	3	Horizontal	207	2.18	-
2457MHz	Pass	PK	2.4952G	59.83	74.00	-14.17	3	Horizontal	207	2.18	-
2462MHz	Pass	AV	2.4602G	104.97	Inf	-Inf	3	Vertical	199	1.49	-
2462MHz	Pass	AV	2.4872G	47.90	54.00	-6.10	3	Vertical	199	1.49	-
2462MHz	Pass	PK	2.4604G	107.30	Inf	-Inf	3	Vertical	199	1.49	-
2462MHz	Pass	PK	2.4872G	60.51	74.00	-13.49	3	Vertical	199	1.49	-
2462MHz	Pass	AV	2.4592G	99.01	Inf	-Inf	3	Horizontal	211	2.90	-
2462MHz	Pass	AV	2.4872G	47.90	54.00	-6.10	3	Horizontal	211	2.90	-
2462MHz	Pass	PK	2.4592G	101.87	Inf	-Inf	3	Horizontal	211	2.90	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	2.4956G	60.18	74.00	-13.82	3	Horizontal	211	2.90	-
2462MHz	Pass	AV	4.924G	48.10	54.00	-5.90	3	Vertical	124	1.03	-
2462MHz	Pass	AV	7.38696G	43.76	54.00	-10.24	3	Vertical	194	1.34	-
2462MHz	Pass	PK	4.924G	52.07	74.00	-21.93	3	Vertical	124	1.03	-
2462MHz	Pass	PK	7.38708G	53.58	74.00	-20.42	3	Vertical	194	1.34	-
2462MHz	Pass	AV	4.924G	52.67	54.00	-1.33	3	Horizontal	204	1.25	-
2462MHz	Pass	AV	7.3869G	42.95	54.00	-11.05	3	Horizontal	47	2.17	-
2462MHz	Pass	PK	4.92406G	55.64	74.00	-18.36	3	Horizontal	204	1.25	-
2462MHz	Pass	PK	7.38534G	52.97	74.00	-21.03	3	Horizontal	47	2.17	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	52.62	54.00	-1.38	3	Vertical	197	1.14	-
2412MHz	Pass	AV	2.411G	104.66	Inf	-Inf	3	Vertical	197	1.14	-
2412MHz	Pass	PK	2.39G	65.39	74.00	-8.61	3	Vertical	197	1.14	-
2412MHz	Pass	PK	2.4112G	112.83	Inf	-Inf	3	Vertical	197	1.14	-
2412MHz	Pass	AV	2.39G	51.49	54.00	-2.51	3	Horizontal	180	2.10	-
2412MHz	Pass	AV	2.4098G	101.50	Inf	-Inf	3	Horizontal	180	2.10	-
2412MHz	Pass	PK	2.3892G	64.47	74.00	-9.53	3	Horizontal	180	2.10	-
2412MHz	Pass	PK	2.4102G	109.67	Inf	-Inf	3	Horizontal	180	2.10	-
2412MHz	Pass	AV	4.82262G	40.12	54.00	-13.88	3	Vertical	257	1.17	-
2412MHz	Pass	PK	4.82358G	52.24	74.00	-21.76	3	Vertical	257	1.17	-
2412MHz	Pass	AV	4.82286G	39.33	54.00	-14.67	3	Horizontal	116	1.04	-
2412MHz	Pass	PK	4.82274G	51.56	74.00	-22.44	3	Horizontal	116	1.04	-
2417MHz	Pass	AV	2.3884G	51.65	54.00	-2.35	3	Vertical	195	1.00	-
2417MHz	Pass	AV	2.418G	107.98	Inf	-Inf	3	Vertical	195	1.00	-
2417MHz	Pass	PK	2.3886G	70.35	74.00	-3.65	3	Vertical	195	1.00	-
2417MHz	Pass	PK	2.4182G	116.39	Inf	-Inf	3	Vertical	195	1.00	-
2417MHz	Pass	AV	2.3874G	49.52	54.00	-4.48	3	Horizontal	179	1.46	-
2417MHz	Pass	AV	2.4176G	103.09	Inf	-Inf	3	Horizontal	179	1.46	-
2417MHz	Pass	PK	2.3878G	65.12	74.00	-8.88	3	Horizontal	179	1.46	-
2417MHz	Pass	PK	2.4176G	111.33	Inf	-Inf	3	Horizontal	179	1.46	-
2437MHz	Pass	AV	2.3898G	48.87	54.00	-5.13	3	Vertical	197	1.34	-
2437MHz	Pass	AV	2.4362G	109.31	Inf	-Inf	3	Vertical	197	1.34	-
2437MHz	Pass	AV	2.4835G	49.88	54.00	-4.12	3	Vertical	197	1.34	-
2437MHz	Pass	PK	2.3898G	63.40	74.00	-10.60	3	Vertical	197	1.34	-
2437MHz	Pass	PK	2.4358G	117.49	Inf	-Inf	3	Vertical	197	1.34	-
2437MHz	Pass	PK	2.4858G	64.10	74.00	-9.90	3	Vertical	197	1.34	-
2437MHz	Pass	AV	2.3846G	48.08	54.00	-5.92	3	Horizontal	176	1.38	-
2437MHz	Pass	AV	2.4394G	105.67	Inf	-Inf	3	Horizontal	176	1.38	-
2437MHz	Pass	AV	2.4846G	48.95	54.00	-5.05	3	Horizontal	176	1.38	-
2437MHz	Pass	PK	2.3898G	59.88	74.00	-14.12	3	Horizontal	176	1.38	-
2437MHz	Pass	PK	2.435G	113.76	Inf	-Inf	3	Horizontal	176	1.38	-
2437MHz	Pass	PK	2.4854G	61.32	74.00	-12.68	3	Horizontal	176	1.38	-
2437MHz	Pass	AV	4.87388G	45.12	54.00	-8.88	3	Vertical	124	1.12	-
2437MHz	Pass	AV	7.31292G	48.70	54.00	-5.30	3	Vertical	198	2.87	-
2437MHz	Pass	PK	4.87346G	57.35	74.00	-16.65	3	Vertical	124	1.12	-
2437MHz	Pass	PK	7.31256G	61.73	74.00	-12.27	3	Vertical	198	2.87	-
2437MHz	Pass	AV	4.874G	45.84	54.00	-8.16	3	Horizontal	215	1.08	-
2437MHz	Pass	AV	7.31292G	48.43	54.00	-5.57	3	Horizontal	53	1.00	-
2437MHz	Pass	PK	4.87568G	57.95	74.00	-16.05	3	Horizontal	215	1.08	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	7.31268G	61.05	74.00	-12.95	3	Horizontal	53	1.00	-
2457MHz	Pass	AV	2.4562G	105.87	Inf	-Inf	3	Vertical	197	1.00	-
2457MHz	Pass	AV	2.4854G	52.56	54.00	-1.44	3	Vertical	197	1.00	-
2457MHz	Pass	PK	2.4562G	114.21	Inf	-Inf	3	Vertical	197	1.00	-
2457MHz	Pass	PK	2.4866G	66.73	74.00	-7.27	3	Vertical	197	1.00	-
2457MHz	Pass	AV	2.4594G	102.97	Inf	-Inf	3	Horizontal	176	1.17	-
2457MHz	Pass	AV	2.4848G	51.70	54.00	-2.30	3	Horizontal	176	1.17	-
2457MHz	Pass	PK	2.4592G	110.59	Inf	-Inf	3	Horizontal	176	1.17	-
2457MHz	Pass	PK	2.4844G	67.16	74.00	-6.84	3	Horizontal	176	1.17	-
2462MHz	Pass	AV	2.463G	103.97	Inf	-Inf	3	Vertical	193	1.00	-
2462MHz	Pass	AV	2.4835G	52.04	54.00	-1.96	3	Vertical	193	1.00	-
2462MHz	Pass	PK	2.4632G	112.44	Inf	-Inf	3	Vertical	193	1.00	-
2462MHz	Pass	PK	2.4836G	65.44	74.00	-8.56	3	Vertical	193	1.00	-
2462MHz	Pass	AV	2.4628G	100.73	Inf	-Inf	3	Horizontal	179	1.47	-
2462MHz	Pass	AV	2.4835G	50.31	54.00	-3.69	3	Horizontal	179	1.47	-
2462MHz	Pass	PK	2.4628G	108.24	Inf	-Inf	3	Horizontal	179	1.47	-
2462MHz	Pass	PK	2.484G	62.88	74.00	-11.12	3	Horizontal	179	1.47	-
2462MHz	Pass	AV	4.92388G	39.07	54.00	-14.93	3	Vertical	124	1.36	-
2462MHz	Pass	AV	7.38732G	40.14	54.00	-13.86	3	Vertical	195	1.46	-
2462MHz	Pass	PK	4.92358G	51.41	74.00	-22.59	3	Vertical	124	1.36	-
2462MHz	Pass	PK	7.38342G	53.17	74.00	-20.83	3	Vertical	195	1.46	-
2462MHz	Pass	AV	4.92754G	41.75	54.00	-12.25	3	Horizontal	204	1.26	-
2462MHz	Pass	AV	7.37694G	39.43	54.00	-14.57	3	Horizontal	193	1.50	-
2462MHz	Pass	PK	4.92358G	54.32	74.00	-19.68	3	Horizontal	204	1.26	-
2462MHz	Pass	PK	7.39026G	51.71	74.00	-22.29	3	Horizontal	193	1.50	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3888G	52.30	54.00	-1.70	3	Vertical	195	1.13	-
2412MHz	Pass	AV	2.4114G	102.68	Inf	-Inf	3	Vertical	195	1.13	-
2412MHz	Pass	PK	2.389G	69.03	74.00	-4.97	3	Vertical	195	1.13	-
2412MHz	Pass	PK	2.4114G	110.89	Inf	-Inf	3	Vertical	195	1.13	-
2412MHz	Pass	AV	2.39G	51.13	54.00	-2.87	3	Horizontal	176	1.46	-
2412MHz	Pass	AV	2.4108G	99.65	Inf	-Inf	3	Horizontal	176	1.46	-
2412MHz	Pass	PK	2.389G	65.38	74.00	-8.62	3	Horizontal	176	1.46	-
2412MHz	Pass	PK	2.4112G	107.37	Inf	-Inf	3	Horizontal	176	1.46	-
2412MHz	Pass	AV	4.82376G	40.42	54.00	-13.58	3	Vertical	256	1.16	-
2412MHz	Pass	PK	4.82604G	53.23	74.00	-20.77	3	Vertical	256	1.16	-
2412MHz	Pass	AV	4.8234G	38.69	54.00	-15.31	3	Horizontal	132	1.00	-
2412MHz	Pass	PK	4.82604G	51.97	74.00	-22.03	3	Horizontal	132	1.00	-
2417MHz	Pass	AV	2.3886G	52.46	54.00	-1.54	3	Vertical	193	1.01	-
2417MHz	Pass	AV	2.4188G	107.28	Inf	-Inf	3	Vertical	193	1.01	-
2417MHz	Pass	PK	2.389G	72.28	74.00	-1.72	3	Vertical	193	1.01	-
2417MHz	Pass	PK	2.4164G	115.64	Inf	-Inf	3	Vertical	193	1.01	-
2417MHz	Pass	AV	2.3886G	51.12	54.00	-2.88	3	Horizontal	177	1.47	-
2417MHz	Pass	AV	2.4182G	104.47	Inf	-Inf	3	Horizontal	177	1.47	-
2417MHz	Pass	PK	2.3888G	68.46	74.00	-5.54	3	Horizontal	177	1.47	-
2417MHz	Pass	PK	2.4158G	112.14	Inf	-Inf	3	Horizontal	177	1.47	-
2437MHz	Pass	AV	2.3898G	48.14	54.00	-5.86	3	Vertical	197	1.32	-
2437MHz	Pass	AV	2.4378G	106.48	Inf	-Inf	3	Vertical	197	1.32	-
2437MHz	Pass	AV	2.4835G	49.18	54.00	-4.82	3	Vertical	197	1.32	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.3894G	61.92	74.00	-12.08	3	Vertical	197	1.32	-
2437MHz	Pass	PK	2.4378G	114.89	Inf	-Inf	3	Vertical	197	1.32	-
2437MHz	Pass	PK	2.4874G	63.04	74.00	-10.96	3	Vertical	197	1.32	-
2437MHz	Pass	AV	2.389G	47.87	54.00	-6.13	3	Horizontal	177	1.39	-
2437MHz	Pass	AV	2.4398G	102.38	Inf	-Inf	3	Horizontal	177	1.39	-
2437MHz	Pass	AV	2.4854G	48.70	54.00	-5.30	3	Horizontal	177	1.39	-
2437MHz	Pass	PK	2.3666G	60.32	74.00	-13.68	3	Horizontal	177	1.39	-
2437MHz	Pass	PK	2.4394G	110.02	Inf	-Inf	3	Horizontal	177	1.39	-
2437MHz	Pass	PK	2.4866G	60.04	74.00	-13.96	3	Horizontal	177	1.39	-
2437MHz	Pass	AV	4.87388G	45.19	54.00	-8.81	3	Vertical	125	1.09	-
2437MHz	Pass	AV	7.3116G	48.32	54.00	-5.68	3	Vertical	197	2.83	-
2437MHz	Pass	PK	4.87112G	56.90	74.00	-17.10	3	Vertical	125	1.09	-
2437MHz	Pass	PK	7.30716G	62.11	74.00	-11.89	3	Vertical	197	2.83	-
2437MHz	Pass	AV	4.87586G	45.21	54.00	-8.79	3	Horizontal	203	1.17	-
2437MHz	Pass	AV	7.31208G	47.83	54.00	-6.17	3	Horizontal	52	1.00	-
2437MHz	Pass	PK	4.87328G	56.99	74.00	-17.01	3	Horizontal	203	1.17	-
2437MHz	Pass	PK	7.31676G	61.57	74.00	-12.43	3	Horizontal	52	1.00	-
2457MHz	Pass	AV	2.4576G	106.93	Inf	-Inf	3	Vertical	196	1.00	-
2457MHz	Pass	AV	2.4848G	52.88	54.00	-1.12	3	Vertical	196	1.00	-
2457MHz	Pass	PK	2.4576G	115.51	Inf	-Inf	3	Vertical	196	1.00	-
2457MHz	Pass	PK	2.4835G	71.77	74.00	-2.23	3	Vertical	196	1.00	-
2457MHz	Pass	AV	2.4594G	103.67	Inf	-Inf	3	Horizontal	176	1.16	-
2457MHz	Pass	AV	2.4848G	51.51	54.00	-2.49	3	Horizontal	176	1.16	-
2457MHz	Pass	PK	2.4596G	111.36	Inf	-Inf	3	Horizontal	176	1.16	-
2457MHz	Pass	PK	2.4846G	68.71	74.00	-5.29	3	Horizontal	176	1.16	-
2462MHz	Pass	AV	2.4614G	103.38	Inf	-Inf	3	Vertical	197	1.00	-
2462MHz	Pass	AV	2.484G	52.87	54.00	-1.13	3	Vertical	197	1.00	-
2462MHz	Pass	PK	2.464G	111.88	Inf	-Inf	3	Vertical	197	1.00	-
2462MHz	Pass	PK	2.4844G	66.50	74.00	-7.50	3	Vertical	197	1.00	-
2462MHz	Pass	AV	2.4634G	100.72	Inf	-Inf	3	Horizontal	177	1.47	-
2462MHz	Pass	AV	2.4835G	52.54	54.00	-1.46	3	Horizontal	177	1.47	-
2462MHz	Pass	PK	2.4608G	108.56	Inf	-Inf	3	Horizontal	177	1.47	-
2462MHz	Pass	PK	2.4835G	67.88	74.00	-6.12	3	Horizontal	177	1.47	-
2462MHz	Pass	AV	4.92418G	39.23	54.00	-14.77	3	Vertical	124	1.37	-
2462MHz	Pass	AV	7.3845G	40.55	54.00	-13.45	3	Vertical	193	1.50	-
2462MHz	Pass	PK	4.92508G	51.89	74.00	-22.11	3	Vertical	124	1.37	-
2462MHz	Pass	PK	7.38234G	53.65	74.00	-20.35	3	Vertical	193	1.50	-
2462MHz	Pass	AV	4.92658G	42.23	54.00	-11.77	3	Horizontal	204	1.26	-
2462MHz	Pass	AV	7.38696G	40.24	54.00	-13.76	3	Horizontal	47	2.23	-
2462MHz	Pass	PK	4.92592G	56.18	74.00	-17.82	3	Horizontal	204	1.26	-
2462MHz	Pass	PK	7.38288G	52.48	74.00	-21.52	3	Horizontal	47	2.23	-
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.39G	52.58	54.00	-1.42	3	Vertical	341	1.50	-
2422MHz	Pass	AV	2.42G	91.75	Inf	-Inf	3	Vertical	341	1.50	-
2422MHz	Pass	AV	2.4904G	48.56	54.00	-5.44	3	Vertical	341	1.50	-
2422MHz	Pass	PK	2.39G	69.80	74.00	-4.20	3	Vertical	341	1.50	-
2422MHz	Pass	PK	2.4176G	100.38	Inf	-Inf	3	Vertical	341	1.50	-
2422MHz	Pass	PK	2.4916G	59.94	74.00	-14.06	3	Vertical	341	1.50	-
2422MHz	Pass	AV	2.39G	52.43	54.00	-1.57	3	Horizontal	81	1.00	-

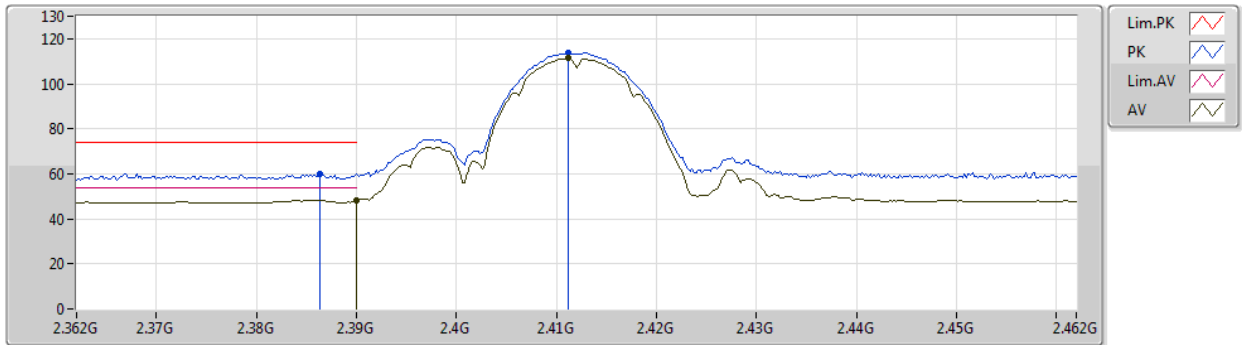
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2422MHz	Pass	AV	2.4204G	92.35	Inf	-Inf	3	Horizontal	81	1.00	-
2422MHz	Pass	AV	2.4964G	48.75	54.00	-5.25	3	Horizontal	81	1.00	-
2422MHz	Pass	PK	2.39G	69.73	74.00	-4.27	3	Horizontal	81	1.00	-
2422MHz	Pass	PK	2.4252G	100.86	Inf	-Inf	3	Horizontal	81	1.00	-
2422MHz	Pass	PK	2.4912G	59.77	74.00	-14.23	3	Horizontal	81	1.00	-
2422MHz	Pass	AV	4.84006G	36.34	54.00	-17.66	3	Vertical	307	1.50	-
2422MHz	Pass	AV	7.2646G	41.80	54.00	-12.20	3	Vertical	275	3.00	-
2422MHz	Pass	PK	4.84522G	49.04	74.00	-24.96	3	Vertical	307	1.50	-
2422MHz	Pass	PK	7.26936G	54.29	74.00	-19.71	3	Vertical	275	3.00	-
2422MHz	Pass	AV	4.8445G	36.95	54.00	-17.05	3	Horizontal	190	1.73	-
2422MHz	Pass	AV	7.26186G	41.89	54.00	-12.11	3	Horizontal	102	1.97	-
2422MHz	Pass	PK	4.8447G	49.35	74.00	-24.65	3	Horizontal	190	1.73	-
2422MHz	Pass	PK	7.26792G	54.15	74.00	-19.85	3	Horizontal	102	1.97	-
2427MHz	Pass	AV	2.3894G	52.29	54.00	-1.71	3	Vertical	344	1.03	-
2427MHz	Pass	AV	2.4286G	92.93	Inf	-Inf	3	Vertical	344	1.03	-
2427MHz	Pass	AV	2.4978G	48.83	54.00	-5.17	3	Vertical	344	1.03	-
2427MHz	Pass	PK	2.3886G	66.12	74.00	-7.88	3	Vertical	344	1.03	-
2427MHz	Pass	PK	2.429G	101.25	Inf	-Inf	3	Vertical	344	1.03	-
2427MHz	Pass	PK	2.4954G	60.94	74.00	-13.06	3	Vertical	344	1.03	-
2427MHz	Pass	AV	2.3894G	52.71	54.00	-1.29	3	Horizontal	87	1.00	-
2427MHz	Pass	AV	2.4238G	92.53	Inf	-Inf	3	Horizontal	87	1.00	-
2427MHz	Pass	AV	2.4994G	48.58	54.00	-5.42	3	Horizontal	87	1.00	-
2427MHz	Pass	PK	2.389G	65.49	74.00	-8.51	3	Horizontal	87	1.00	-
2427MHz	Pass	PK	2.429G	101.40	Inf	-Inf	3	Horizontal	87	1.00	-
2427MHz	Pass	PK	2.493G	60.03	74.00	-13.97	3	Horizontal	87	1.00	-
2437MHz	Pass	AV	2.3886G	52.31	54.00	-1.69	3	Vertical	191	1.18	-
2437MHz	Pass	AV	2.4386G	101.14	Inf	-Inf	3	Vertical	191	1.18	-
2437MHz	Pass	AV	2.4835G	52.21	54.00	-1.79	3	Vertical	191	1.18	-
2437MHz	Pass	PK	2.3834G	66.08	74.00	-7.92	3	Vertical	191	1.18	-
2437MHz	Pass	PK	2.439G	108.65	Inf	-Inf	3	Vertical	191	1.18	-
2437MHz	Pass	PK	2.4835G	66.58	74.00	-7.42	3	Vertical	191	1.18	-
2437MHz	Pass	AV	2.3898G	51.31	54.00	-2.69	3	Horizontal	177	1.40	-
2437MHz	Pass	AV	2.4382G	98.30	Inf	-Inf	3	Horizontal	177	1.40	-
2437MHz	Pass	AV	2.4835G	51.68	54.00	-2.32	3	Horizontal	177	1.40	-
2437MHz	Pass	PK	2.3882G	64.83	74.00	-9.17	3	Horizontal	177	1.40	-
2437MHz	Pass	PK	2.4382G	105.85	Inf	-Inf	3	Horizontal	177	1.40	-
2437MHz	Pass	PK	2.4835G	65.44	74.00	-8.56	3	Horizontal	177	1.40	-
2437MHz	Pass	AV	4.87394G	39.82	54.00	-14.18	3	Vertical	124	1.11	-
2437MHz	Pass	AV	7.31598G	41.71	54.00	-12.29	3	Vertical	198	3.00	-
2437MHz	Pass	PK	4.87358G	50.61	74.00	-23.39	3	Vertical	124	1.11	-
2437MHz	Pass	PK	7.31976G	53.33	74.00	-20.67	3	Vertical	198	3.00	-
2437MHz	Pass	AV	4.8737G	39.62	54.00	-14.38	3	Horizontal	203	1.25	-
2437MHz	Pass	AV	7.3011G	40.73	54.00	-13.27	3	Horizontal	89	2.43	-
2437MHz	Pass	PK	4.87556G	50.38	74.00	-23.62	3	Horizontal	203	1.25	-
2437MHz	Pass	PK	7.3176G	52.41	74.00	-21.59	3	Horizontal	89	2.43	-
2447MHz	Pass	AV	2.3778G	48.58	54.00	-5.42	3	Vertical	194	1.00	-
2447MHz	Pass	AV	2.4502G	96.99	Inf	-Inf	3	Vertical	194	1.00	-
2447MHz	Pass	AV	2.4835G	52.86	54.00	-1.14	3	Vertical	194	1.00	-
2447MHz	Pass	PK	2.3578G	60.17	74.00	-13.83	3	Vertical	194	1.00	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2447MHz	Pass	PK	2.4502G	105.75	Inf	-Inf	3	Vertical	194	1.00	-
2447MHz	Pass	PK	2.485G	71.12	74.00	-2.88	3	Vertical	194	1.00	-
2447MHz	Pass	AV	2.3654G	48.81	54.00	-5.19	3	Horizontal	178	1.75	-
2447MHz	Pass	AV	2.4498G	93.69	Inf	-Inf	3	Horizontal	178	1.75	-
2447MHz	Pass	AV	2.485G	51.70	54.00	-2.30	3	Horizontal	178	1.75	-
2447MHz	Pass	PK	2.3826G	59.43	74.00	-14.57	3	Horizontal	178	1.75	-
2447MHz	Pass	PK	2.445G	101.40	Inf	-Inf	3	Horizontal	178	1.75	-
2447MHz	Pass	PK	2.4846G	69.37	74.00	-4.63	3	Horizontal	178	1.75	-
2452MHz	Pass	AV	2.3824G	48.82	54.00	-5.18	3	Vertical	192	1.00	-
2452MHz	Pass	AV	2.4536G	96.36	Inf	-Inf	3	Vertical	192	1.00	-
2452MHz	Pass	AV	2.484G	52.87	54.00	-1.13	3	Vertical	192	1.00	-
2452MHz	Pass	PK	2.3556G	59.32	74.00	-14.68	3	Vertical	192	1.00	-
2452MHz	Pass	PK	2.4488G	104.96	Inf	-Inf	3	Vertical	192	1.00	-
2452MHz	Pass	PK	2.4864G	71.91	74.00	-2.09	3	Vertical	192	1.00	-
2452MHz	Pass	AV	2.39G	48.39	54.00	-5.61	3	Horizontal	176	1.25	-
2452MHz	Pass	AV	2.4532G	92.98	Inf	-Inf	3	Horizontal	176	1.25	-
2452MHz	Pass	AV	2.4835G	50.52	54.00	-3.48	3	Horizontal	176	1.25	-
2452MHz	Pass	PK	2.3832G	59.36	74.00	-14.64	3	Horizontal	176	1.25	-
2452MHz	Pass	PK	2.4508G	99.91	Inf	-Inf	3	Horizontal	176	1.25	-
2452MHz	Pass	PK	2.4835G	67.71	74.00	-6.29	3	Horizontal	176	1.25	-
2452MHz	Pass	AV	4.9037G	36.37	54.00	-17.63	3	Vertical	125	1.15	-
2452MHz	Pass	AV	7.34316G	40.42	54.00	-13.58	3	Vertical	331	1.42	-
2452MHz	Pass	PK	4.91318G	47.35	74.00	-26.65	3	Vertical	125	1.15	-
2452MHz	Pass	PK	7.3506G	52.29	74.00	-21.71	3	Vertical	331	1.42	-
2452MHz	Pass	AV	4.904G	36.86	54.00	-17.14	3	Horizontal	205	1.32	-
2452MHz	Pass	AV	7.36254G	40.39	54.00	-13.61	3	Horizontal	121	1.50	-
2452MHz	Pass	PK	4.91384G	48.21	74.00	-25.79	3	Horizontal	205	1.32	-
2452MHz	Pass	PK	7.35396G	51.53	74.00	-22.47	3	Horizontal	121	1.50	-

802.11b_Nss1,(1Mbps)_2TX

31/10/2019

2412MHz_TX

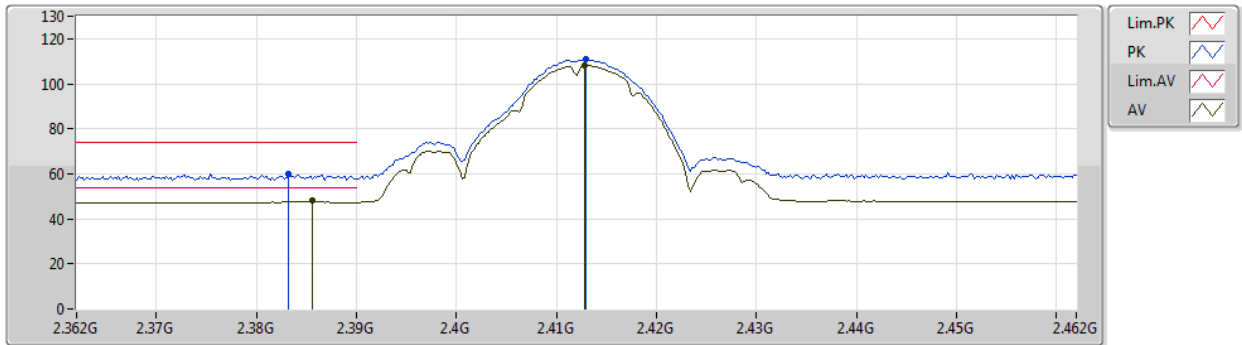


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	48.39	54.00	-5.61	31.54	3	Vertical	191	1.01	-	16.85	27.54	4.00	-
AV	2.4112G	111.45	Inf	-Inf	31.50	3	Vertical	191	1.01	-	79.95	27.48	4.02	-
PK	2.3864G	60.22	74.00	-13.78	31.54	3	Vertical	191	1.01	-	28.68	27.55	3.99	-
PK	2.4112G	113.89	Inf	-Inf	31.50	3	Vertical	191	1.01	-	82.39	27.48	4.02	-

802.11b_Nss1,(1Mbps)_2TX

31/10/2019

2412MHz_TX

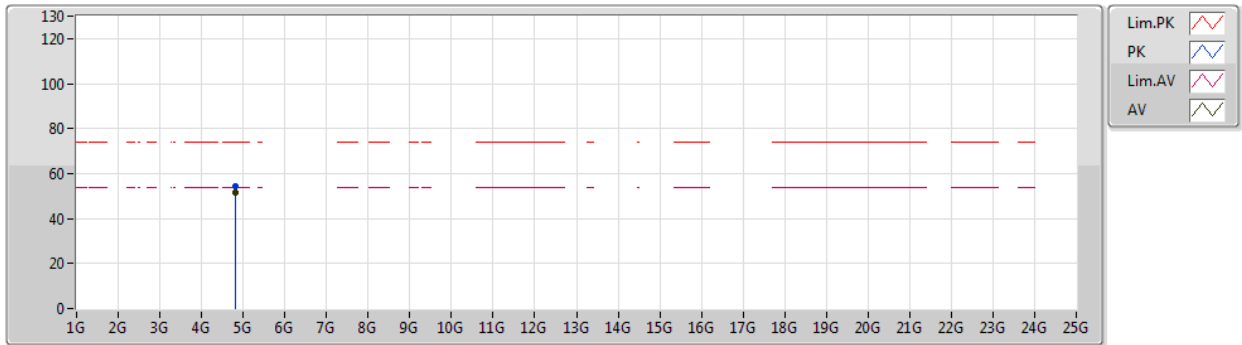


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3856G	48.09	54.00	-5.91	31.55	3	Horizontal	176	1.45	-	16.54	27.56	3.99	-
AV	2.4128G	108.34	Inf	-Inf	31.49	3	Horizontal	176	1.45	-	76.85	27.47	4.02	-
PK	2.3832G	59.90	74.00	-14.10	31.56	3	Horizontal	176	1.45	-	28.34	27.57	3.99	-
PK	2.413G	110.74	Inf	-Inf	31.49	3	Horizontal	176	1.45	-	79.25	27.47	4.02	-

802.11b_Nss1,(1Mbps)_2TX

31/10/2019

2412MHz_TX

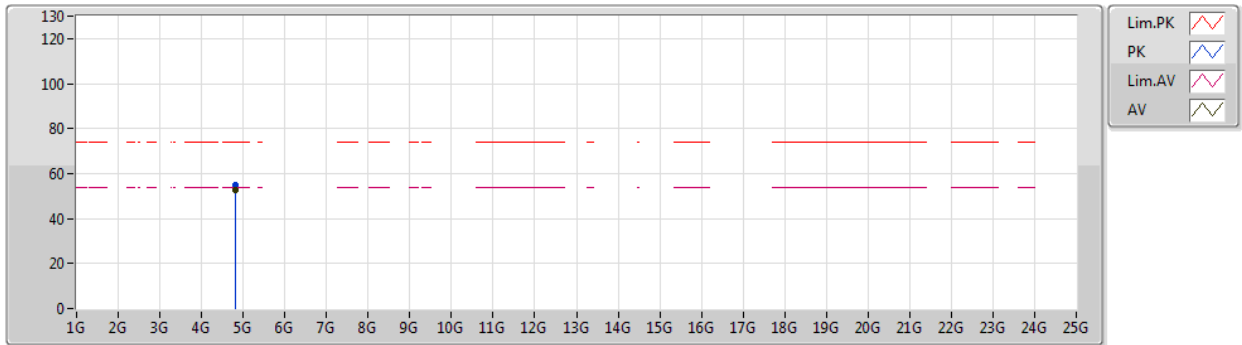


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.824G	51.73	54.00	-2.27	7.51	3	Vertical	199	2.09	-	44.22	31.12	5.79	29.40
PK	4.824G	54.35	74.00	-19.65	7.51	3	Vertical	199	2.09	-	46.84	31.12	5.79	29.40

802.11b_Nss1,(1Mbps)_2TX

31/10/2019

2412MHz_TX

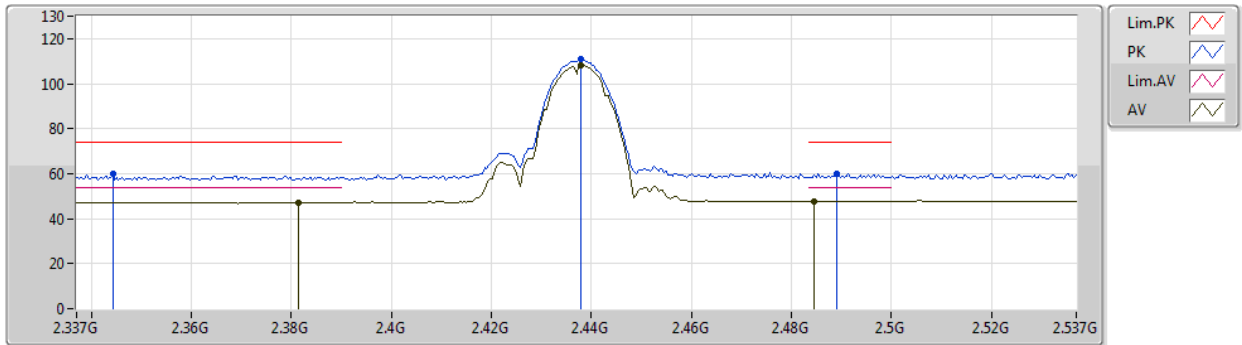


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.824G	52.83	54.00	-1.17	7.51	3	Horizontal	214	1.04	-	45.32	31.12	5.79	29.40
PK	4.824G	55.03	74.00	-18.97	7.51	3	Horizontal	214	1.04	-	47.52	31.12	5.79	29.40

802.11b_Nss1,(1Mbps)_2TX

31/10/2019

2437MHz_TX

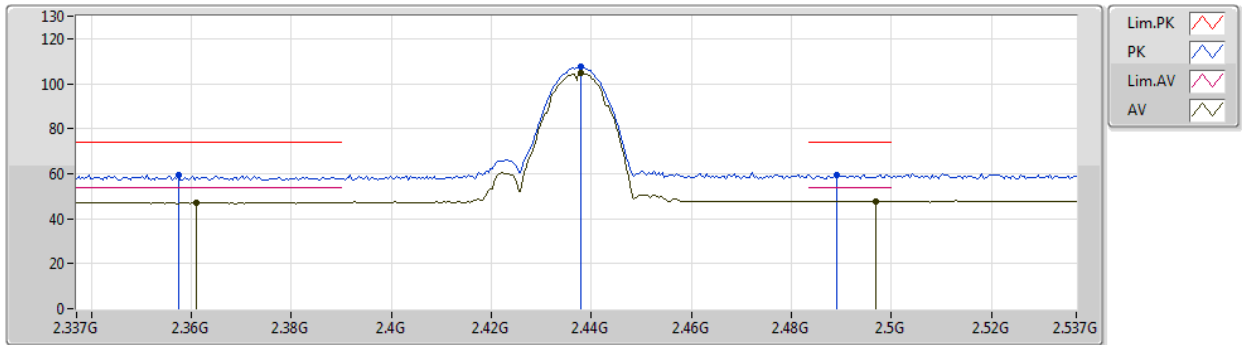


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3814G	47.28	54.00	-6.72	31.56	3	Vertical	156	1.44	-	15.72	27.57	3.99	-
AV	2.4378G	108.27	Inf	-Inf	31.46	3	Vertical	156	1.44	-	76.81	27.42	4.04	-
AV	2.4846G	47.90	54.00	-6.10	31.42	3	Vertical	156	1.44	-	16.48	27.33	4.09	-
PK	2.3442G	59.92	74.00	-14.08	31.67	3	Vertical	156	1.44	-	28.25	27.72	3.95	-
PK	2.4378G	110.70	Inf	-Inf	31.46	3	Vertical	156	1.44	-	79.24	27.42	4.04	-
PK	2.489G	59.82	74.00	-14.18	31.41	3	Vertical	156	1.44	-	28.41	27.32	4.09	-

802.11b_Nss1,(1Mbps)_2TX

31/10/2019

2437MHz_TX

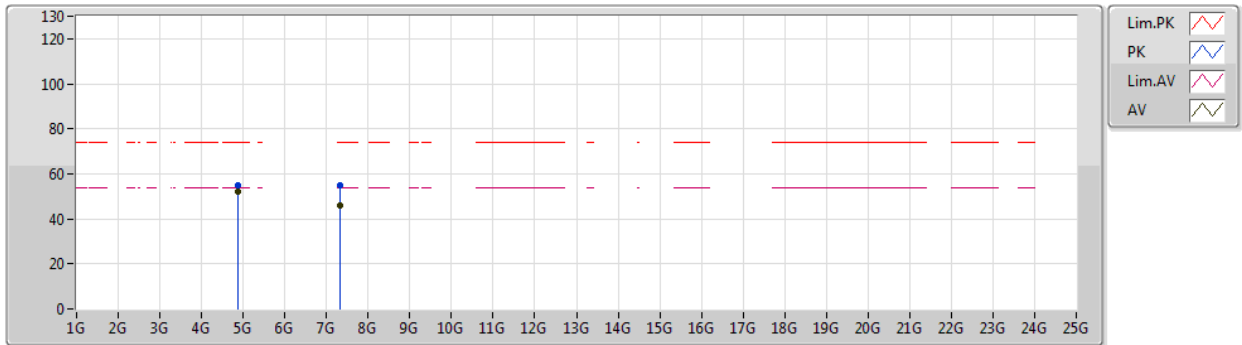


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.361G	47.27	54.00	-6.73	31.63	3	Horizontal	205	1.84	-	15.64	27.66	3.97	-
AV	2.4378G	105.01	Inf	-Inf	31.46	3	Horizontal	205	1.84	-	73.55	27.42	4.04	-
AV	2.497G	47.90	54.00	-6.10	31.41	3	Horizontal	205	1.84	-	16.49	27.31	4.10	-
PK	2.3574G	59.30	74.00	-14.70	31.64	3	Horizontal	205	1.84	-	27.66	27.67	3.97	-
PK	2.4378G	107.46	Inf	-Inf	31.46	3	Horizontal	205	1.84	-	76.00	27.42	4.04	-
PK	2.489G	59.32	74.00	-14.68	31.41	3	Horizontal	205	1.84	-	27.91	27.32	4.09	-

802.11b_Nss1,(1Mbps)_2TX

31/10/2019

2437MHz_TX

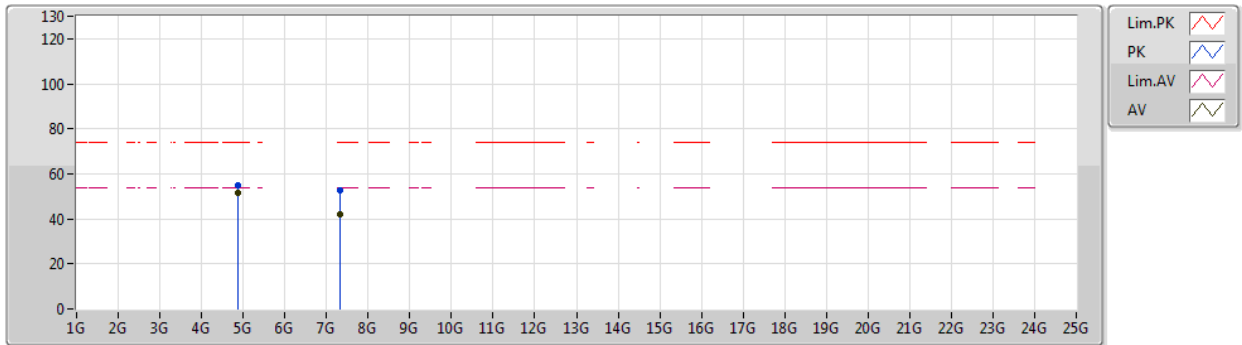


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87394G	52.12	54.00	-1.88	7.62	3	Vertical	170	2.09	-	44.50	31.17	5.83	29.38
AV	7.31022G	46.05	54.00	-7.95	13.41	3	Vertical	199	3.00	-	32.64	36.29	7.48	30.36
PK	4.874G	54.96	74.00	-19.04	7.62	3	Vertical	170	2.09	-	47.34	31.17	5.83	29.38
PK	7.31112G	54.82	74.00	-19.18	13.41	3	Vertical	199	3.00	-	41.41	36.29	7.48	30.36

802.11b_Nss1,(1Mbps)_2TX

31/10/2019

2437MHz_TX

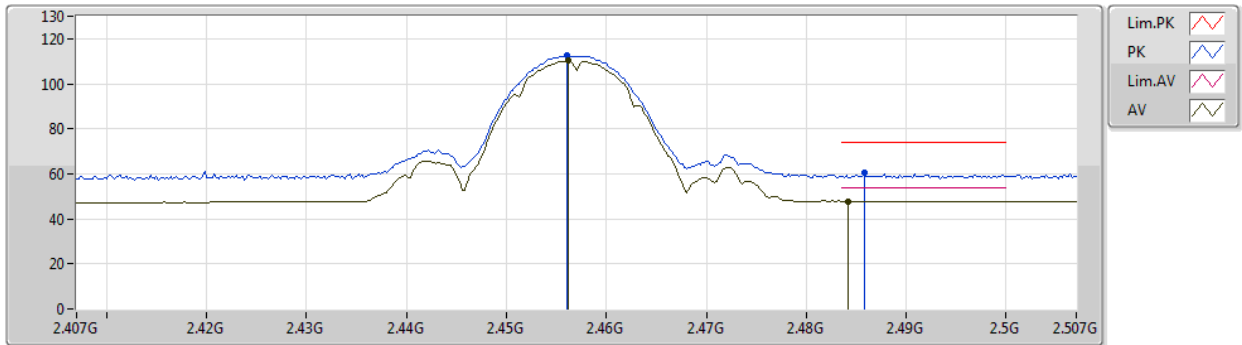


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.874G	51.71	54.00	-2.29	7.62	3	Horizontal	202	1.50	-	44.09	31.17	5.83	29.38
AV	7.31178G	42.22	54.00	-11.78	13.41	3	Horizontal	135	1.70	-	28.81	36.29	7.48	30.36
PK	4.87394G	54.80	74.00	-19.20	7.62	3	Horizontal	202	1.50	-	47.18	31.17	5.83	29.38
PK	7.31214G	52.95	74.00	-21.05	13.41	3	Horizontal	135	1.70	-	39.54	36.29	7.48	30.36

802.11b_Nss1,(1Mbps)_2TX

31/10/2019

2457MHz_TX

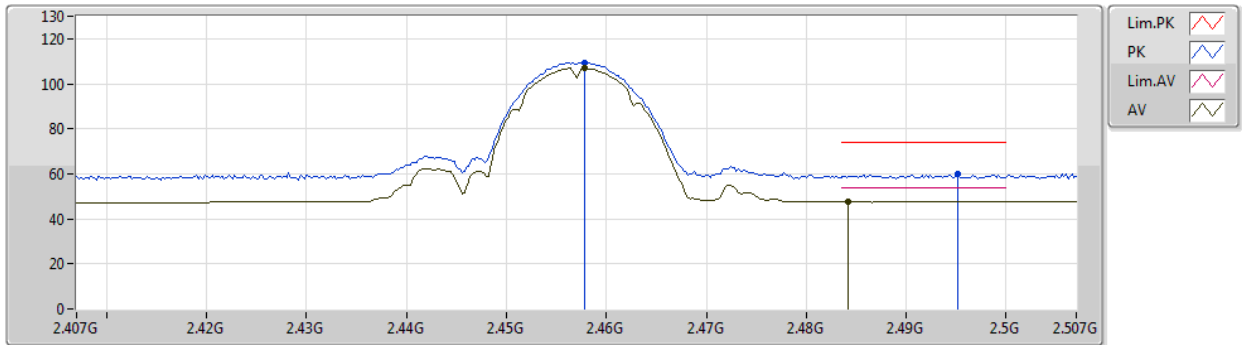


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4562G	110.33	Inf	-Inf	31.45	3	Vertical	165	1.39	-	78.88	27.39	4.06	-
AV	2.4842G	47.90	54.00	-6.10	31.42	3	Vertical	165	1.39	-	16.48	27.33	4.09	-
PK	2.456G	112.72	Inf	-Inf	31.45	3	Vertical	165	1.39	-	81.27	27.39	4.06	-
PK	2.4858G	60.25	74.00	-13.75	31.42	3	Vertical	165	1.39	-	28.83	27.33	4.09	-

802.11b_Nss1,(1Mbps)_2TX

31/10/2019

2457MHz_TX

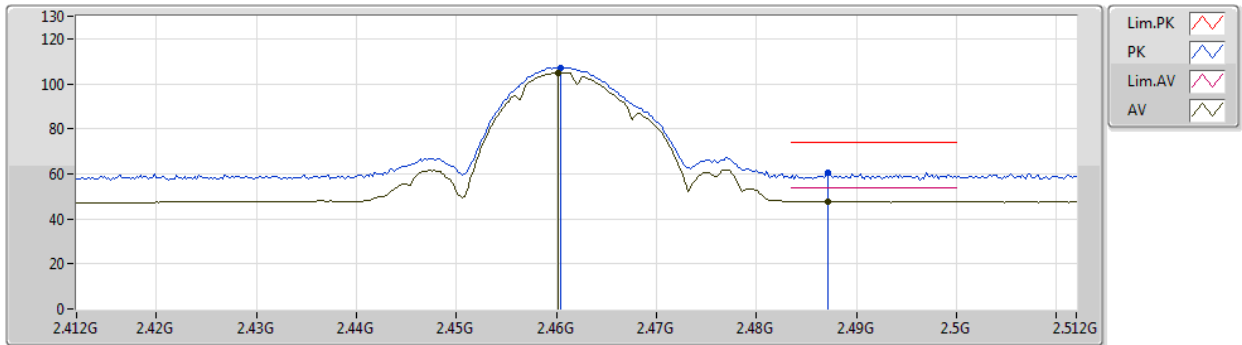


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4578G	107.11	Inf	-Inf	31.44	3	Horizontal	207	2.18	-	75.67	27.38	4.06	-
AV	2.4842G	47.61	54.00	-6.39	31.42	3	Horizontal	207	2.18	-	16.19	27.33	4.09	-
PK	2.4578G	109.51	Inf	-Inf	31.44	3	Horizontal	207	2.18	-	78.07	27.38	4.06	-
PK	2.4952G	59.83	74.00	-14.17	31.41	3	Horizontal	207	2.18	-	28.42	27.31	4.10	-

802.11b_Nss1,(1Mbps)_2TX

31/10/2019

2462MHz_TX

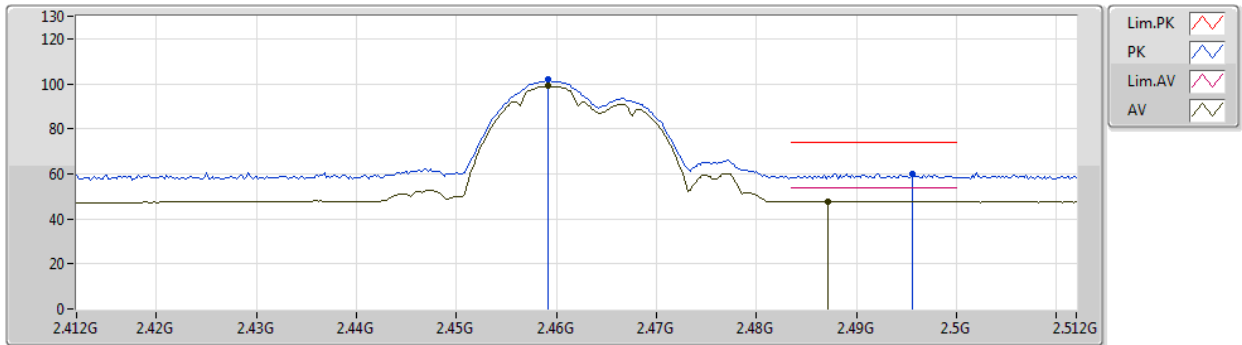


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4602G	104.97	Inf	-Inf	31.44	3	Vertical	199	1.49	-	73.53	27.38	4.06	-
AV	2.4872G	47.90	54.00	-6.10	31.42	3	Vertical	199	1.49	-	16.48	27.33	4.09	-
PK	2.4604G	107.30	Inf	-Inf	31.44	3	Vertical	199	1.49	-	75.86	27.38	4.06	-
PK	2.4872G	60.51	74.00	-13.49	31.42	3	Vertical	199	1.49	-	29.09	27.33	4.09	-

802.11b_Nss1,(1Mbps)_2TX

31/10/2019

2462MHz_TX

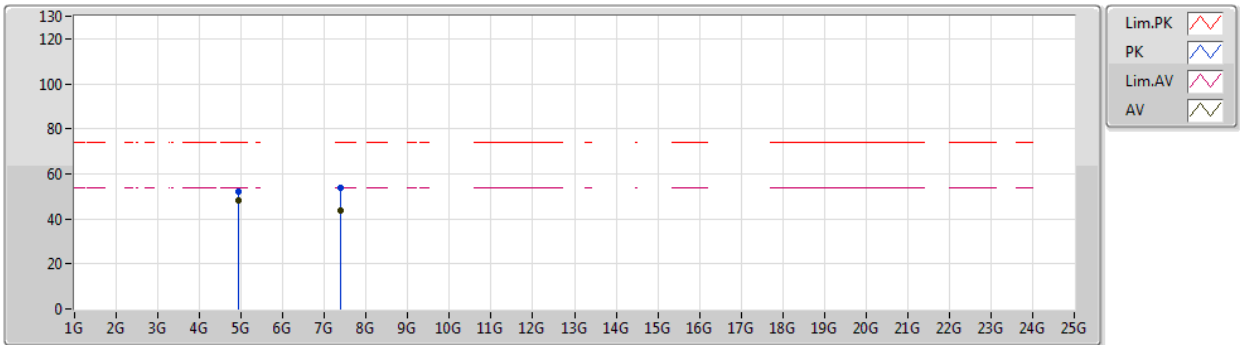


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4592G	99.01	Inf	-Inf	31.44	3	Horizontal	211	2.90	-	67.57	27.38	4.06	-
AV	2.4872G	47.90	54.00	-6.10	31.42	3	Horizontal	211	2.90	-	16.48	27.33	4.09	-
PK	2.4592G	101.87	Inf	-Inf	31.44	3	Horizontal	211	2.90	-	70.43	27.38	4.06	-
PK	2.4956G	60.18	74.00	-13.82	31.41	3	Horizontal	211	2.90	-	28.77	27.31	4.10	-

802.11b_Nss1,(1Mbps)_2TX

31/10/2019

2462MHz_TX

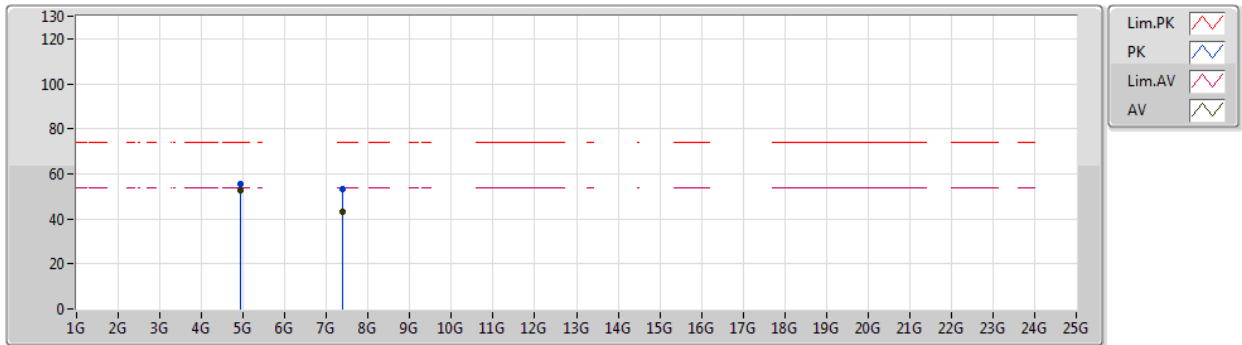


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.924G	48.10	54.00	-5.90	7.79	3	Vertical	124	1.03	-	40.31	31.27	5.87	29.35
AV	7.38696G	43.76	54.00	-10.24	13.13	3	Vertical	194	1.34	-	30.63	36.21	7.34	30.42
PK	4.924G	52.07	74.00	-21.93	7.79	3	Vertical	124	1.03	-	44.28	31.27	5.87	29.35
PK	7.38708G	53.58	74.00	-20.42	13.13	3	Vertical	194	1.34	-	40.45	36.21	7.34	30.42

802.11b_Nss1,(1Mbps)_2TX

31/10/2019

2462MHz_TX

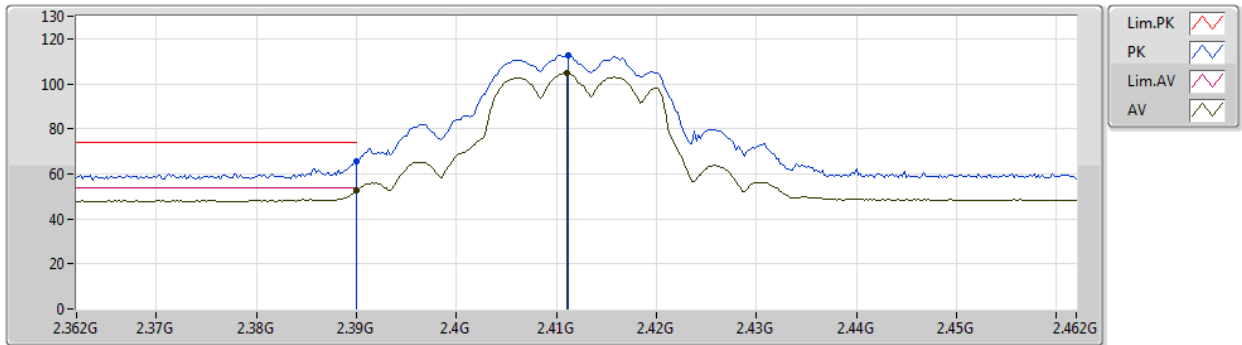


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.924G	52.67	54.00	-1.33	7.79	3	Horizontal	204	1.25	-	44.88	31.27	5.87	29.35
AV	7.3869G	42.95	54.00	-11.05	13.13	3	Horizontal	47	2.17	-	29.82	36.21	7.34	30.42
PK	4.92406G	55.64	74.00	-18.36	7.79	3	Horizontal	204	1.25	-	47.85	31.27	5.87	29.35
PK	7.38534G	52.97	74.00	-21.03	13.13	3	Horizontal	47	2.17	-	39.84	36.21	7.34	30.42

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2412MHz_TX

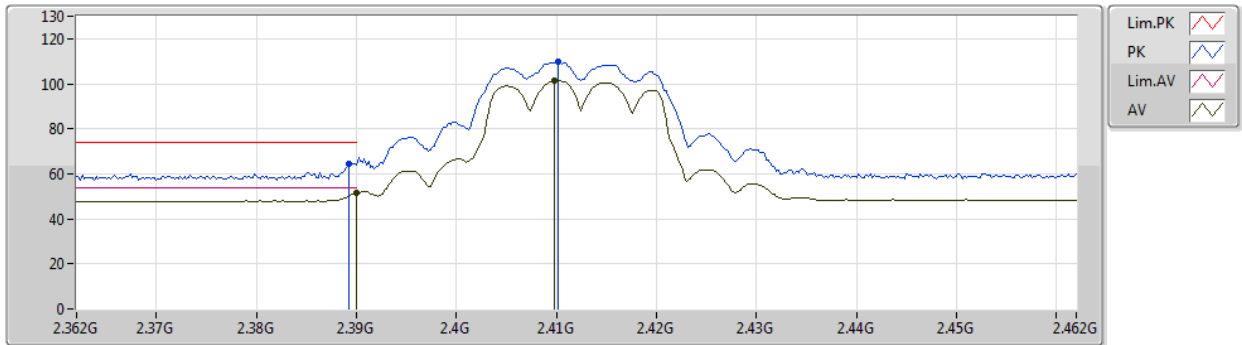


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.62	54.00	-1.38	31.54	3	Vertical	197	1.14	-	21.08	27.54	4.00	-
AV	2.411G	104.66	Inf	-Inf	31.50	3	Vertical	197	1.14	-	73.16	27.48	4.02	-
PK	2.39G	65.39	74.00	-8.61	31.54	3	Vertical	197	1.14	-	33.85	27.54	4.00	-
PK	2.4112G	112.83	Inf	-Inf	31.50	3	Vertical	197	1.14	-	81.33	27.48	4.02	-

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2412MHz_TX

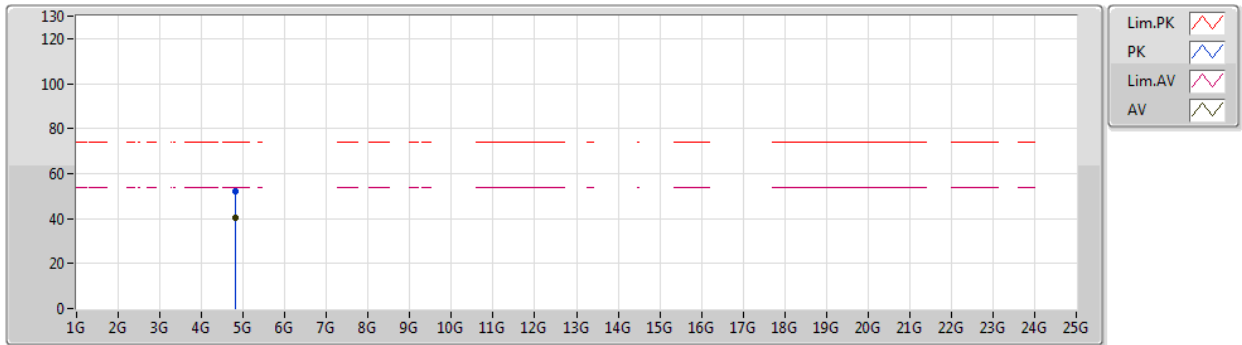


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.49	54.00	-2.51	31.54	3	Horizontal	180	2.10	-	19.95	27.54	4.00	-
AV	2.4098G	101.50	Inf	-Inf	31.50	3	Horizontal	180	2.10	-	70.00	27.48	4.02	-
PK	2.3892G	64.47	74.00	-9.53	31.54	3	Horizontal	180	2.10	-	32.93	27.54	4.00	-
PK	2.4102G	109.67	Inf	-Inf	31.50	3	Horizontal	180	2.10	-	78.17	27.48	4.02	-

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2412MHz_TX

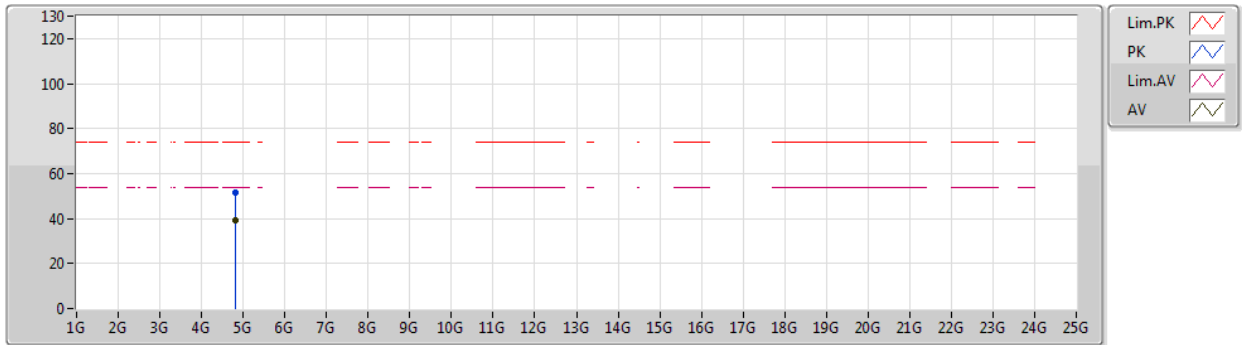


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82262G	40.12	54.00	-13.88	7.51	3	Vertical	257	1.17	-	32.61	31.12	5.79	29.40
PK	4.82358G	52.24	74.00	-21.76	7.51	3	Vertical	257	1.17	-	44.73	31.12	5.79	29.40

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2412MHz_TX

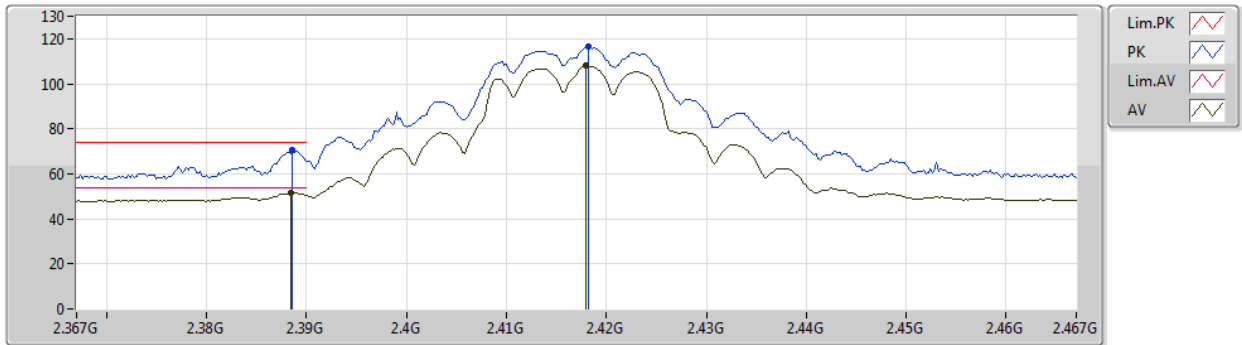


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82286G	39.33	54.00	-14.67	7.51	3	Horizontal	116	1.04	-	31.82	31.12	5.79	29.40
PK	4.82274G	51.56	74.00	-22.44	7.51	3	Horizontal	116	1.04	-	44.05	31.12	5.79	29.40

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2417MHz_TX

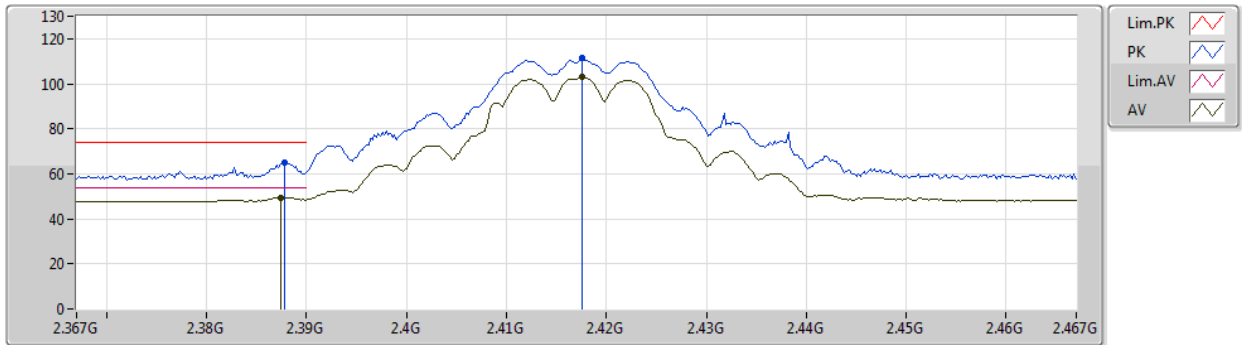


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3884G	51.65	54.00	-2.35	31.55	3	Vertical	195	1.00	-	20.10	27.55	4.00	-
AV	2.418G	107.98	Inf	-Inf	31.48	3	Vertical	195	1.00	-	76.50	27.46	4.02	-
PK	2.3886G	70.35	74.00	-3.65	31.55	3	Vertical	195	1.00	-	38.80	27.55	4.00	-
PK	2.4182G	116.39	Inf	-Inf	31.48	3	Vertical	195	1.00	-	84.91	27.46	4.02	-

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2417MHz_TX

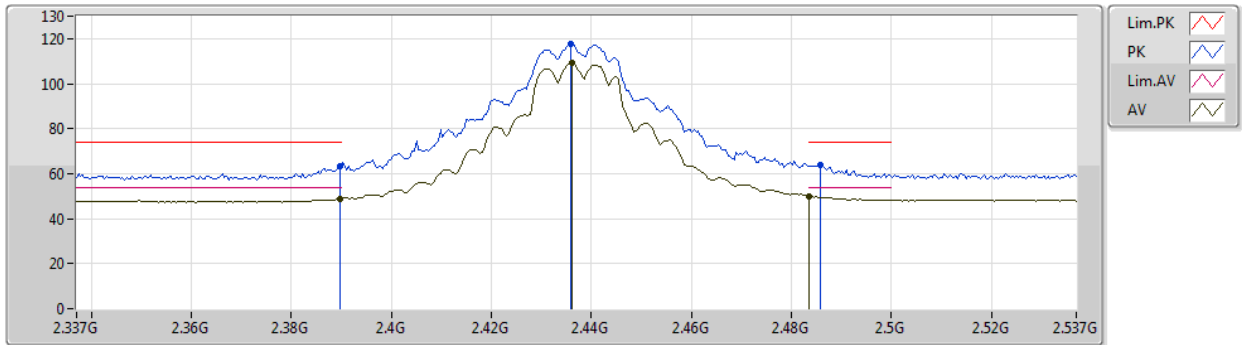


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3874G	49.52	54.00	-4.48	31.54	3	Horizontal	179	1.46	-	17.98	27.55	3.99	-
AV	2.4176G	103.09	Inf	-Inf	31.48	3	Horizontal	179	1.46	-	71.61	27.46	4.02	-
PK	2.3878G	65.12	74.00	-8.88	31.54	3	Horizontal	179	1.46	-	33.58	27.55	3.99	-
PK	2.4176G	111.33	Inf	-Inf	31.48	3	Horizontal	179	1.46	-	79.85	27.46	4.02	-

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2437MHz_TX

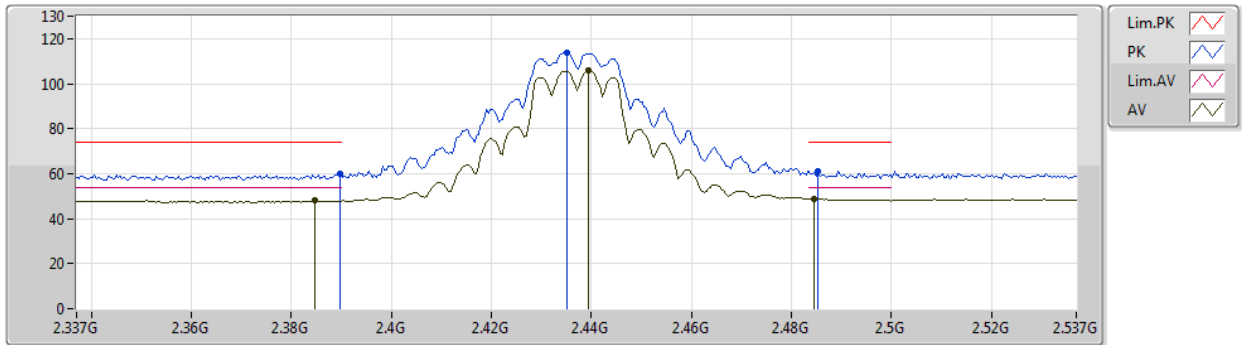


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	48.87	54.00	-5.13	31.54	3	Vertical	197	1.34	-	17.33	27.54	4.00	-
AV	2.4362G	109.31	Inf	-Inf	31.47	3	Vertical	197	1.34	-	77.84	27.43	4.04	-
AV	2.4835G	49.88	54.00	-4.12	31.41	3	Vertical	197	1.34	-	18.47	27.33	4.08	-
PK	2.3898G	63.40	74.00	-10.60	31.54	3	Vertical	197	1.34	-	31.86	27.54	4.00	-
PK	2.4358G	117.49	Inf	-Inf	31.47	3	Vertical	197	1.34	-	86.02	27.43	4.04	-
PK	2.4858G	64.10	74.00	-9.90	31.42	3	Vertical	197	1.34	-	32.68	27.33	4.09	-

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2437MHz_TX

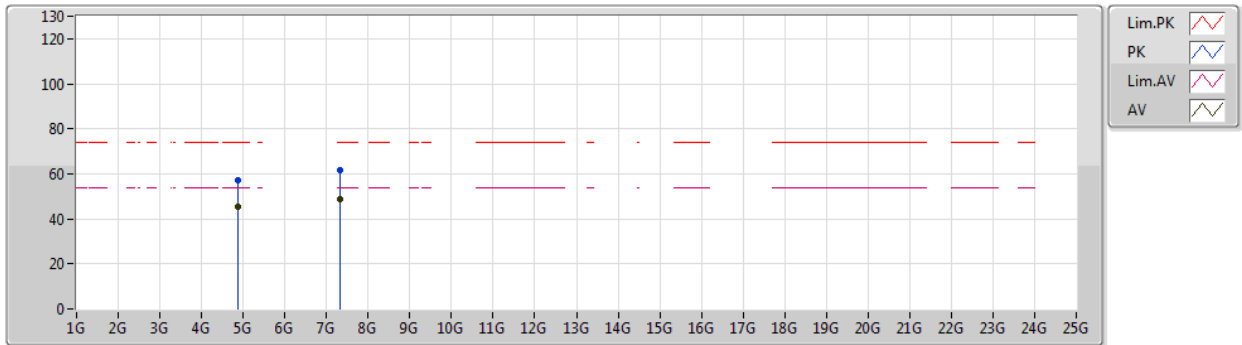


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3846G	48.08	54.00	-5.92	31.55	3	Horizontal	176	1.38	-	16.53	27.56	3.99	-
AV	2.4394G	105.67	Inf	-Inf	31.46	3	Horizontal	176	1.38	-	74.21	27.42	4.04	-
AV	2.4846G	48.95	54.00	-5.05	31.42	3	Horizontal	176	1.38	-	17.53	27.33	4.09	-
PK	2.3898G	59.88	74.00	-14.12	31.54	3	Horizontal	176	1.38	-	28.34	27.54	4.00	-
PK	2.435G	113.76	Inf	-Inf	31.47	3	Horizontal	176	1.38	-	82.29	27.43	4.04	-
PK	2.4854G	61.32	74.00	-12.68	31.42	3	Horizontal	176	1.38	-	29.90	27.33	4.09	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

31/10/2019

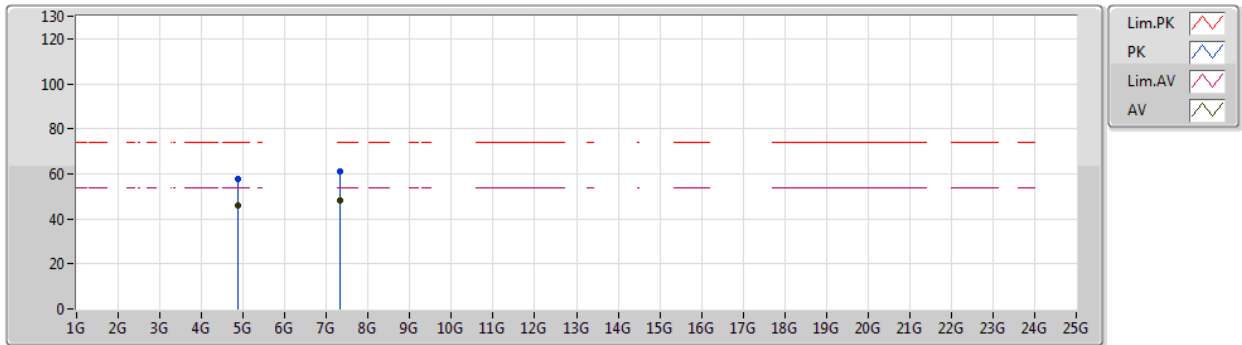


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87388G	45.12	54.00	-8.88	7.62	3	Vertical	124	1.12	-	37.50	31.17	5.83	29.38
AV	7.31292G	48.70	54.00	-5.30	13.40	3	Vertical	198	2.87	-	35.30	36.29	7.47	30.36
PK	4.87346G	57.35	74.00	-16.65	7.62	3	Vertical	124	1.12	-	49.73	31.17	5.83	29.38
PK	7.31256G	61.73	74.00	-12.27	13.40	3	Vertical	198	2.87	-	48.33	36.29	7.47	30.36

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2437MHz_TX

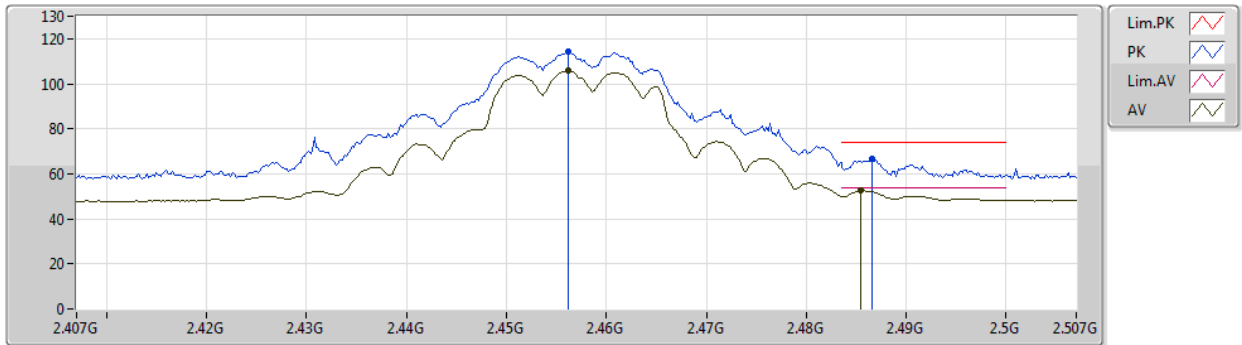


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.874G	45.84	54.00	-8.16	7.62	3	Horizontal	215	1.08	-	38.22	31.17	5.83	29.38
AV	7.31292G	48.43	54.00	-5.57	13.40	3	Horizontal	53	1.00	-	35.03	36.29	7.47	30.36
PK	4.87568G	57.95	74.00	-16.05	7.63	3	Horizontal	215	1.08	-	50.32	31.18	5.83	29.38
PK	7.31268G	61.05	74.00	-12.95	13.40	3	Horizontal	53	1.00	-	47.65	36.29	7.47	30.36

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2457MHz_TX

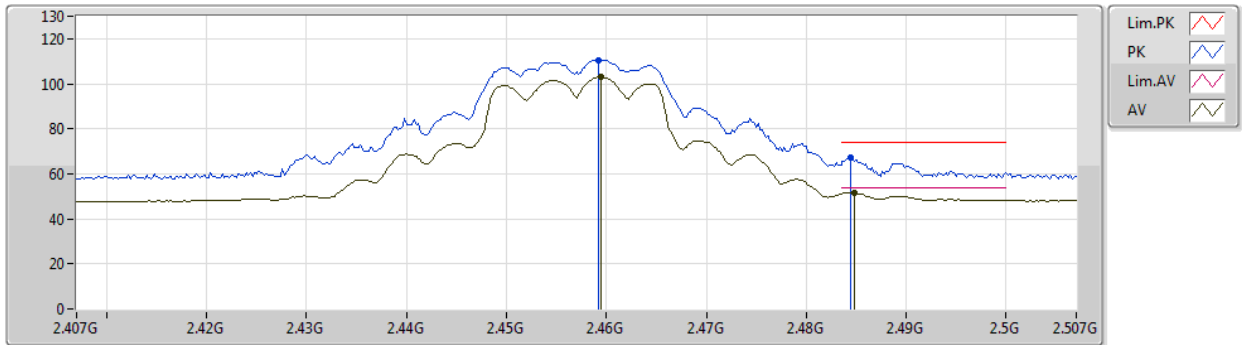


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4562G	105.87	Inf	-Inf	31.45	3	Vertical	197	1.00	-	74.42	27.39	4.06	-
AV	2.4854G	52.56	54.00	-1.44	31.42	3	Vertical	197	1.00	-	21.14	27.33	4.09	-
PK	2.4562G	114.21	Inf	-Inf	31.45	3	Vertical	197	1.00	-	82.76	27.39	4.06	-
PK	2.4866G	66.73	74.00	-7.27	31.42	3	Vertical	197	1.00	-	35.31	27.33	4.09	-

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2457MHz_TX

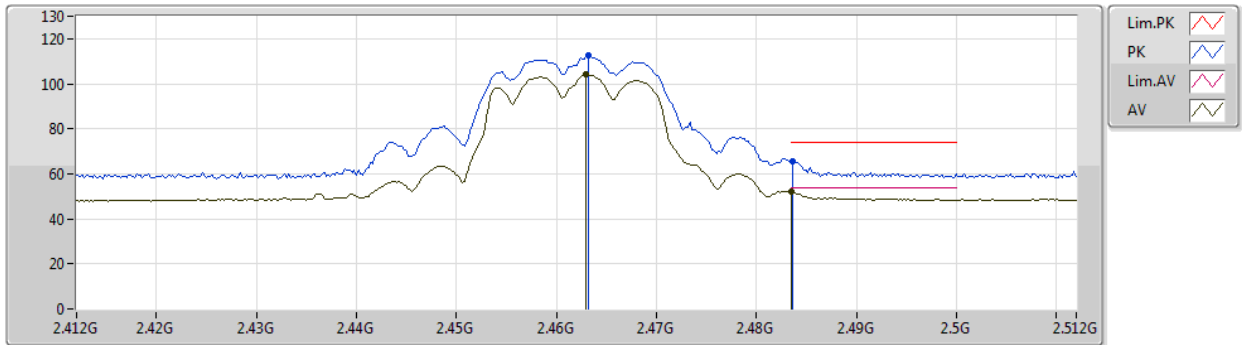


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4594G	102.97	Inf	-Inf	31.44	3	Horizontal	176	1.17	-	71.53	27.38	4.06	-
AV	2.4848G	51.70	54.00	-2.30	31.42	3	Horizontal	176	1.17	-	20.28	27.33	4.09	-
PK	2.4592G	110.59	Inf	-Inf	31.44	3	Horizontal	176	1.17	-	79.15	27.38	4.06	-
PK	2.4844G	67.16	74.00	-6.84	31.42	3	Horizontal	176	1.17	-	35.74	27.33	4.09	-

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2462MHz_TX

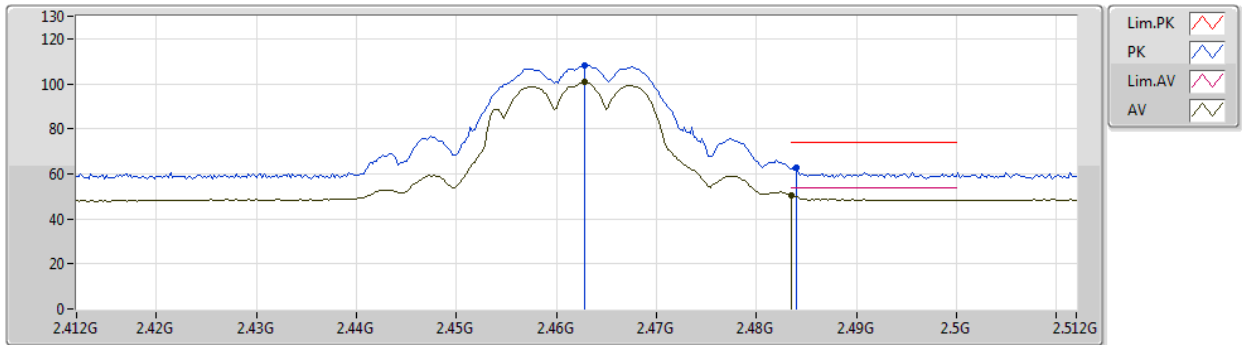


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.463G	103.97	Inf	-Inf	31.44	3	Vertical	193	1.00	-	72.53	27.37	4.07	-
AV	2.4835G	52.04	54.00	-1.96	31.41	3	Vertical	193	1.00	-	20.63	27.33	4.08	-
PK	2.4632G	112.44	Inf	-Inf	31.44	3	Vertical	193	1.00	-	81.00	27.37	4.07	-
PK	2.4836G	65.44	74.00	-8.56	31.41	3	Vertical	193	1.00	-	34.03	27.33	4.08	-

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2462MHz_TX

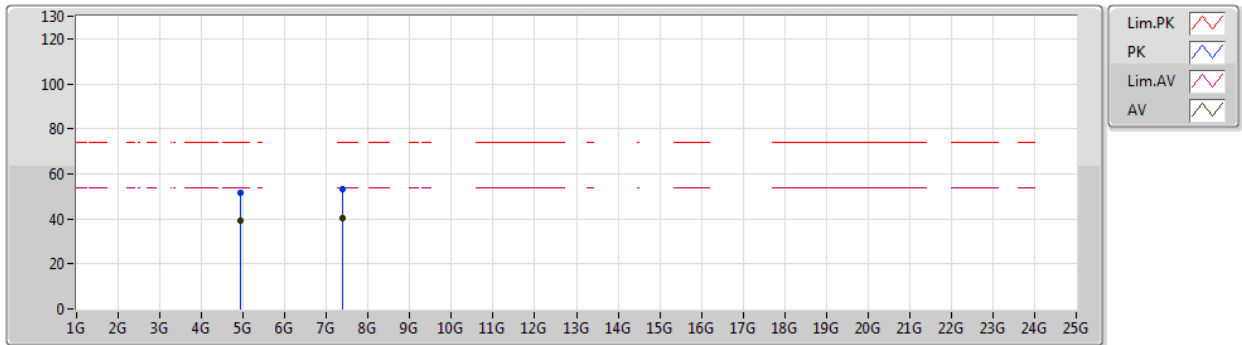


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	24628G	100.73	Inf	-Inf	31.44	3	Horizontal	179	1.47	-	69.29	27.37	4.07	-
AV	24835G	50.31	54.00	-3.69	31.41	3	Horizontal	179	1.47	-	18.90	27.33	4.08	-
PK	24628G	108.24	Inf	-Inf	31.44	3	Horizontal	179	1.47	-	76.80	27.37	4.07	-
PK	2484G	62.88	74.00	-11.12	31.41	3	Horizontal	179	1.47	-	31.47	27.33	4.08	-

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2462MHz_TX

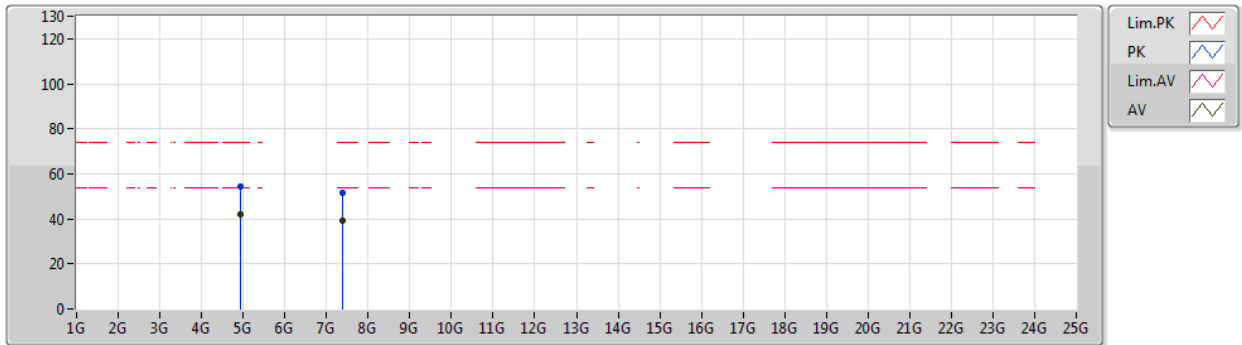


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92388G	39.07	54.00	-14.93	7.78	3	Vertical	124	1.36	-	31.29	31.27	5.87	29.36
AV	7.38732G	40.14	54.00	-13.86	13.13	3	Vertical	195	1.46	-	27.01	36.21	7.34	30.42
PK	4.92358G	51.41	74.00	-22.59	7.77	3	Vertical	124	1.36	-	43.64	31.27	5.86	29.36
PK	7.38342G	53.17	74.00	-20.83	13.14	3	Vertical	195	1.46	-	40.03	36.22	7.34	30.42

802.11g_Nss1,(6Mbps)_2TX

31/10/2019

2462MHz_TX

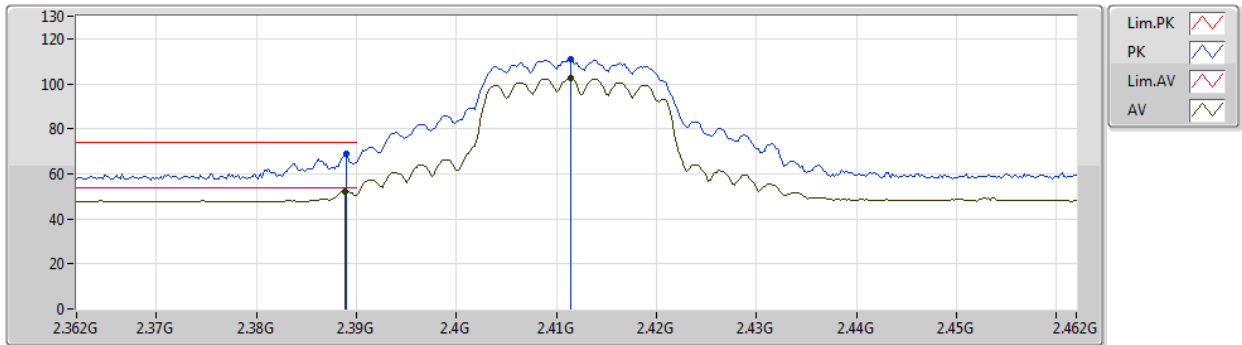


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92754G	41.75	54.00	-12.25	7.80	3	Horizontal	204	1.26	-	33.95	31.28	5.87	29.35
AV	7.37694G	39.43	54.00	-14.57	13.17	3	Horizontal	193	1.50	-	26.26	36.22	7.36	30.41
PK	4.92358G	54.32	74.00	-19.68	7.77	3	Horizontal	204	1.26	-	46.55	31.27	5.86	29.36
PK	7.39026G	51.71	74.00	-22.29	13.11	3	Horizontal	193	1.50	-	38.60	36.21	7.33	30.43

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

2412MHz_TX

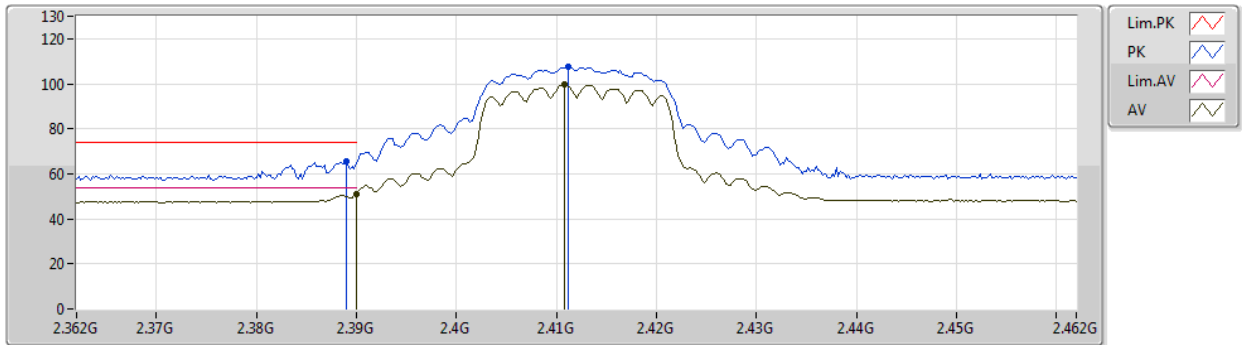


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3888G	52.30	54.00	-1.70	31.54	3	Vertical	195	1.13	-	20.76	27.54	4.00	-
AV	2.4114G	102.68	Inf	-Inf	31.50	3	Vertical	195	1.13	-	71.18	27.48	4.02	-
PK	2.389G	69.03	74.00	-4.97	31.54	3	Vertical	195	1.13	-	37.49	27.54	4.00	-
PK	2.4114G	110.89	Inf	-Inf	31.50	3	Vertical	195	1.13	-	79.39	27.48	4.02	-

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

2412MHz_TX

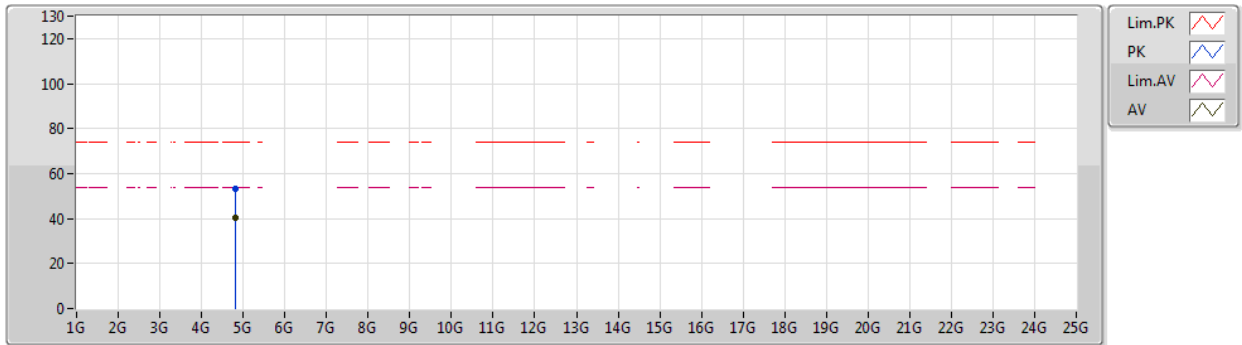


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.13	54.00	-2.87	31.54	3	Horizontal	176	1.46	-	19.59	27.54	4.00	-
AV	2.4108G	99.65	Inf	-Inf	31.50	3	Horizontal	176	1.46	-	68.15	27.48	4.02	-
PK	2.389G	65.38	74.00	-8.62	31.54	3	Horizontal	176	1.46	-	33.84	27.54	4.00	-
PK	2.4112G	107.37	Inf	-Inf	31.50	3	Horizontal	176	1.46	-	75.87	27.48	4.02	-

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

2412MHz_TX

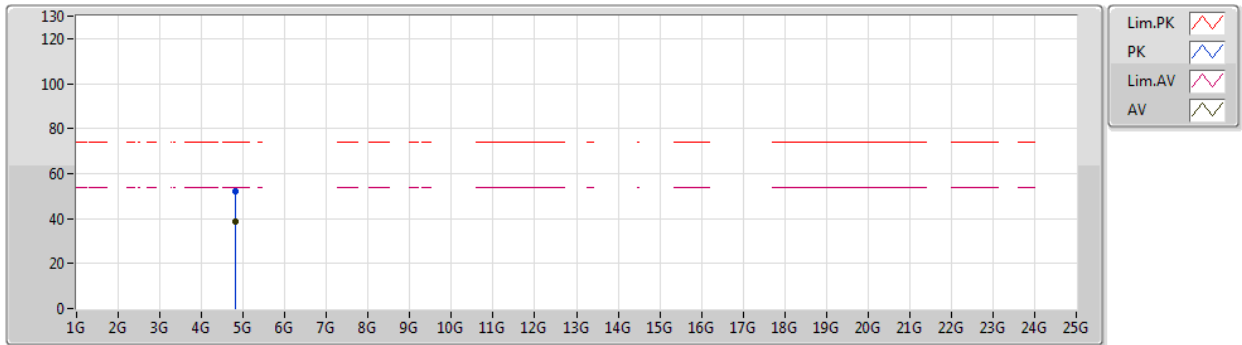


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82376G	40.42	54.00	-13.58	7.51	3	Vertical	256	1.16	-	32.91	31.12	5.79	29.40
PK	4.82604G	53.23	74.00	-20.77	7.52	3	Vertical	256	1.16	-	45.71	31.13	5.79	29.40

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

2412MHz_TX

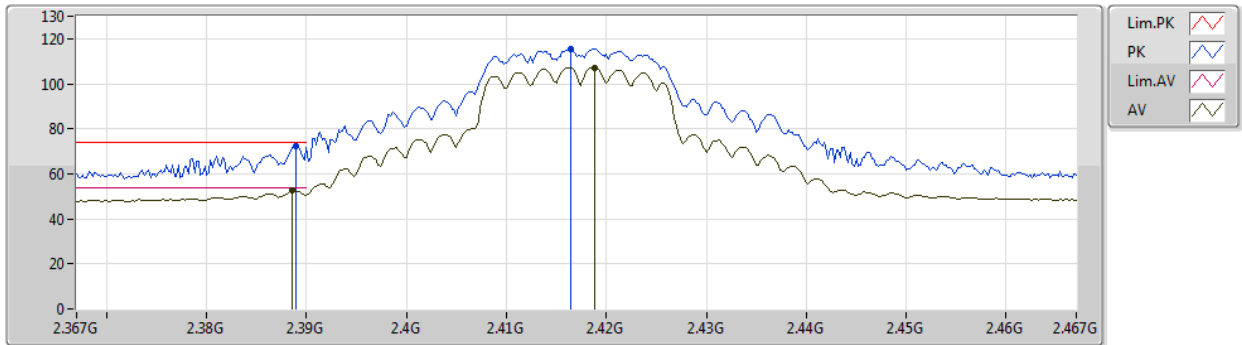


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8234G	38.69	54.00	-15.31	7.51	3	Horizontal	132	1.00	-	31.18	31.12	5.79	29.40
PK	4.82604G	51.97	74.00	-22.03	7.52	3	Horizontal	132	1.00	-	44.45	31.13	5.79	29.40

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

2417MHz_TX

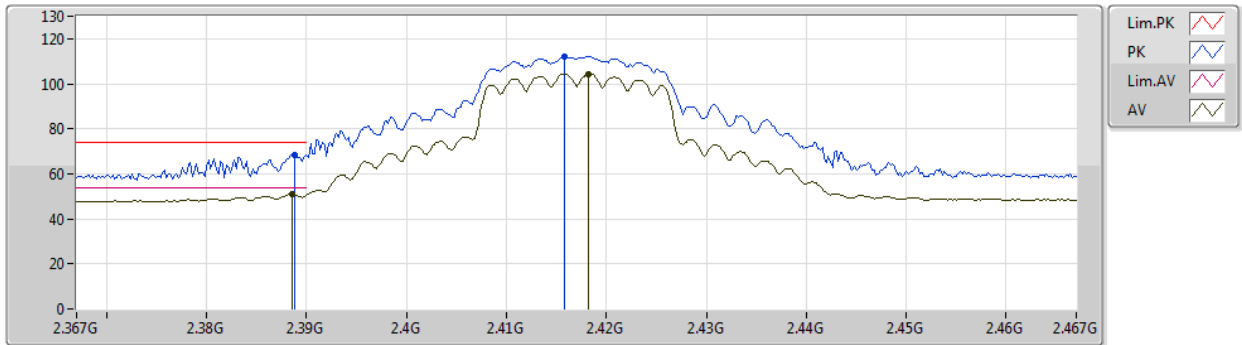


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3886G	52.46	54.00	-1.54	31.55	3	Vertical	193	1.01	-	20.91	27.55	4.00	-
AV	2.4188G	107.28	Inf	-Inf	31.48	3	Vertical	193	1.01	-	75.80	27.46	4.02	-
PK	2.389G	72.28	74.00	-1.72	31.54	3	Vertical	193	1.01	-	40.74	27.54	4.00	-
PK	2.4164G	115.64	Inf	-Inf	31.49	3	Vertical	193	1.01	-	84.15	27.47	4.02	-

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

2417MHz_TX

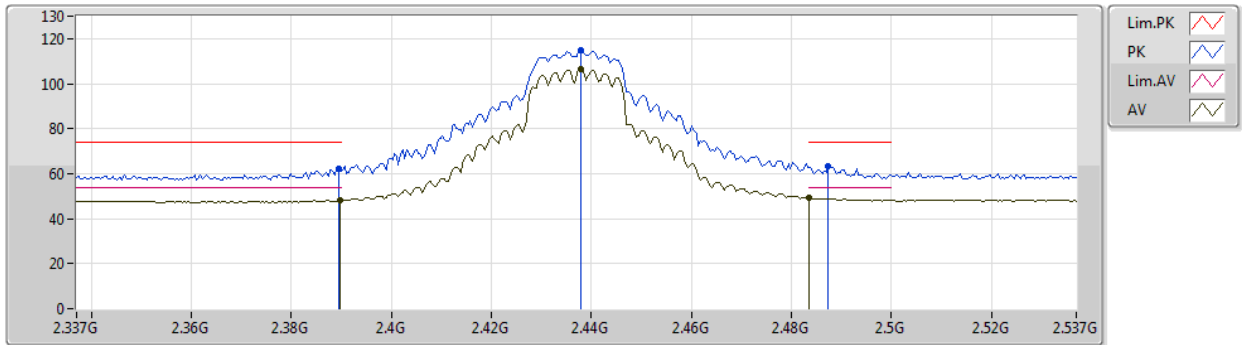


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3886G	51.12	54.00	-2.88	31.55	3	Horizontal	177	1.47	-	19.57	27.55	4.00	-
AV	2.4182G	104.47	Inf	-Inf	31.48	3	Horizontal	177	1.47	-	72.99	27.46	4.02	-
PK	2.3888G	68.46	74.00	-5.54	31.54	3	Horizontal	177	1.47	-	36.92	27.54	4.00	-
PK	2.4158G	112.14	Inf	-Inf	31.49	3	Horizontal	177	1.47	-	80.65	27.47	4.02	-

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

2437MHz_TX

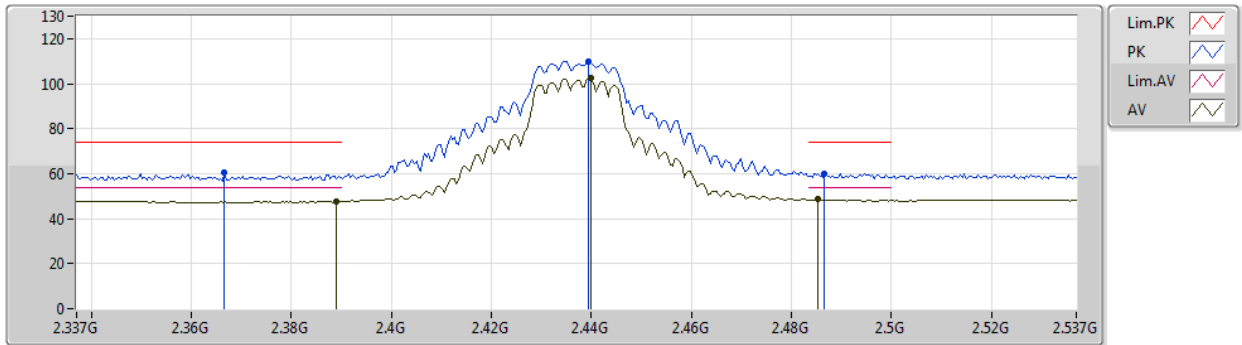


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	48.14	54.00	-5.86	31.54	3	Vertical	197	1.32	-	16.60	27.54	4.00	-
AV	2.4378G	106.48	Inf	-Inf	31.46	3	Vertical	197	1.32	-	75.02	27.42	4.04	-
AV	2.4835G	49.18	54.00	-4.82	31.41	3	Vertical	197	1.32	-	17.77	27.33	4.08	-
PK	2.3894G	61.92	74.00	-12.08	31.54	3	Vertical	197	1.32	-	30.38	27.54	4.00	-
PK	2.4378G	114.89	Inf	-Inf	31.46	3	Vertical	197	1.32	-	83.43	27.42	4.04	-
PK	2.4874G	63.04	74.00	-10.96	31.42	3	Vertical	197	1.32	-	31.62	27.33	4.09	-

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

2437MHz_TX

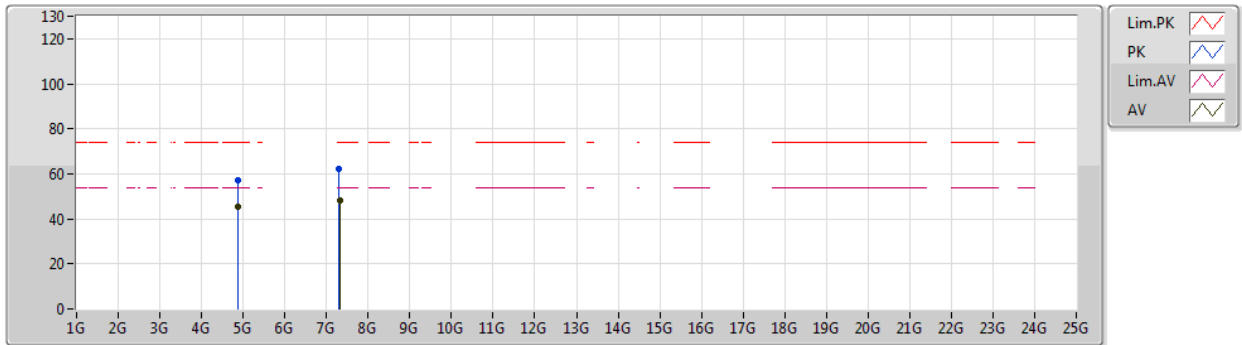


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.389G	47.87	54.00	-6.13	31.54	3	Horizontal	177	1.39	-	16.33	27.54	4.00	-
AV	2.4398G	102.38	Inf	-Inf	31.46	3	Horizontal	177	1.39	-	70.92	27.42	4.04	-
AV	2.4854G	48.70	54.00	-5.30	31.42	3	Horizontal	177	1.39	-	17.28	27.33	4.09	-
PK	2.3666G	60.32	74.00	-13.68	31.60	3	Horizontal	177	1.39	-	28.72	27.63	3.97	-
PK	2.4394G	110.02	Inf	-Inf	31.46	3	Horizontal	177	1.39	-	78.56	27.42	4.04	-
PK	2.4866G	60.04	74.00	-13.96	31.42	3	Horizontal	177	1.39	-	28.62	27.33	4.09	-

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

2437MHz_TX

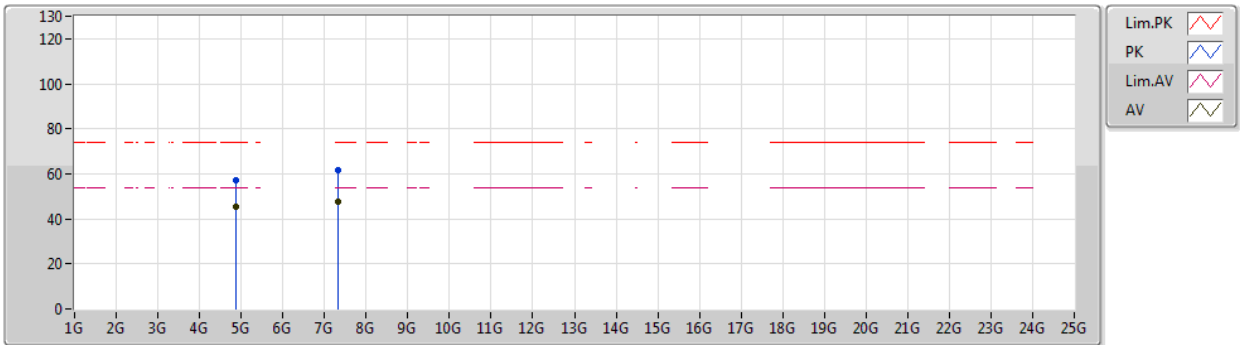


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87388G	45.19	54.00	-8.81	7.62	3	Vertical	125	1.09	-	37.57	31.17	5.83	29.38
AV	7.3116G	48.32	54.00	-5.68	13.41	3	Vertical	197	2.83	-	34.91	36.29	7.48	30.36
PK	4.87112G	56.90	74.00	-17.10	7.62	3	Vertical	125	1.09	-	49.28	31.17	5.83	29.38
PK	7.30716G	62.11	74.00	-11.89	13.42	3	Vertical	197	2.83	-	48.69	36.29	7.48	30.35

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

2437MHz_TX

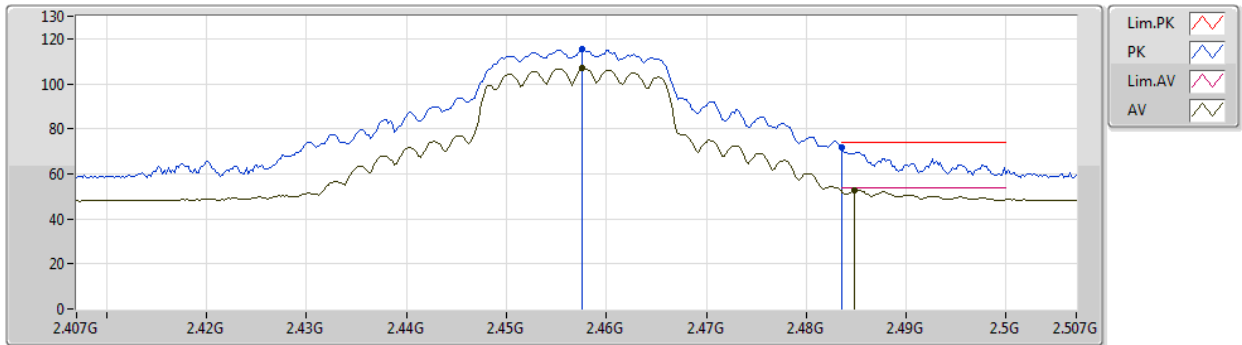


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87586G	45.21	54.00	-8.79	7.63	3	Horizontal	203	1.17	-	37.58	31.18	5.83	29.38
AV	7.31208G	47.83	54.00	-6.17	13.41	3	Horizontal	52	1.00	-	34.42	36.29	7.48	30.36
PK	4.87328G	56.99	74.00	-17.01	7.62	3	Horizontal	203	1.17	-	49.37	31.17	5.83	29.38
PK	7.31676G	61.57	74.00	-12.43	13.39	3	Horizontal	52	1.00	-	48.18	36.28	7.47	30.36

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

2457MHz_TX

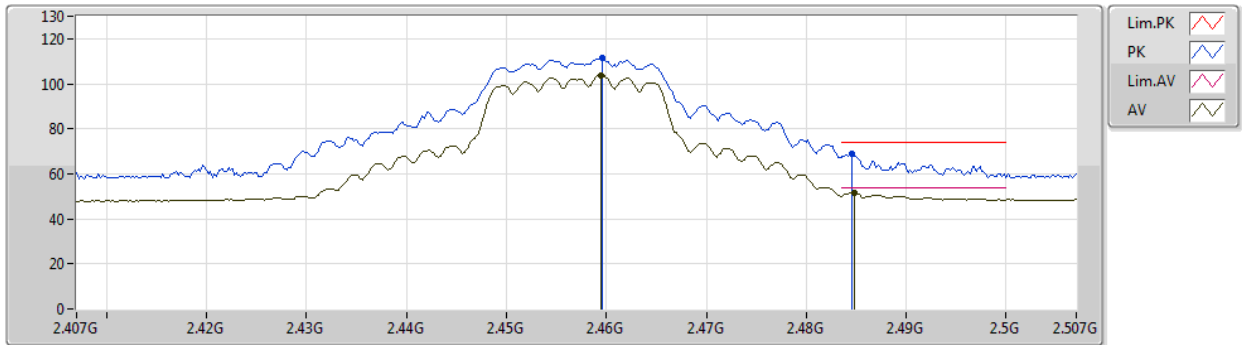


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4576G	106.93	Inf	-Inf	31.44	3	Vertical	196	1.00	-	75.49	27.38	4.06	-
AV	2.4848G	52.88	54.00	-1.12	31.42	3	Vertical	196	1.00	-	21.46	27.33	4.09	-
PK	2.4576G	115.51	Inf	-Inf	31.44	3	Vertical	196	1.00	-	84.07	27.38	4.06	-
PK	2.4835G	71.77	74.00	-2.23	31.41	3	Vertical	196	1.00	-	40.36	27.33	4.08	-

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

2457MHz_TX

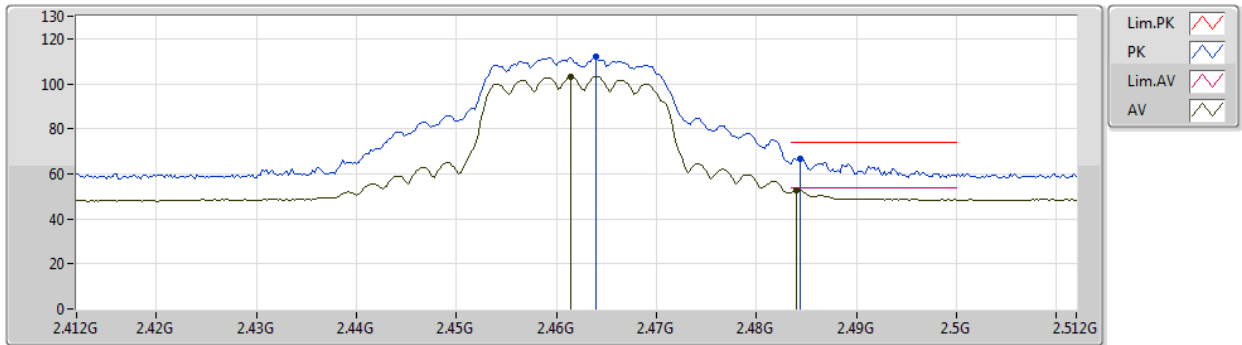


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4594G	103.67	Inf	-Inf	31.44	3	Horizontal	176	1.16	-	72.23	27.38	4.06	-
AV	2.4848G	51.51	54.00	-2.49	31.42	3	Horizontal	176	1.16	-	20.09	27.33	4.09	-
PK	2.4596G	111.36	Inf	-Inf	31.44	3	Horizontal	176	1.16	-	79.92	27.38	4.06	-
PK	2.4846G	68.71	74.00	-5.29	31.42	3	Horizontal	176	1.16	-	37.29	27.33	4.09	-

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

2462MHz_TX

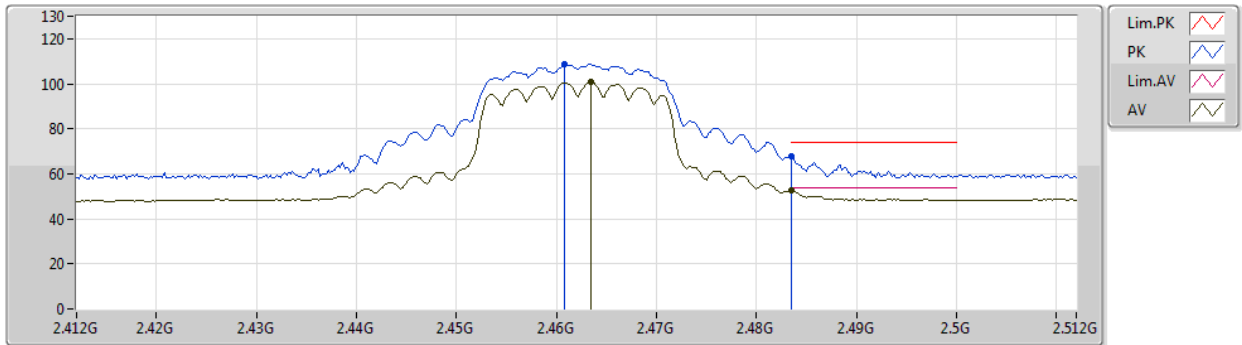


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4614G	103.38	Inf	-Inf	31.44	3	Vertical	197	1.00	-	71.94	27.38	4.06	-
AV	2.484G	52.87	54.00	-1.13	31.41	3	Vertical	197	1.00	-	21.46	27.33	4.08	-
PK	2.464G	111.88	Inf	-Inf	31.44	3	Vertical	197	1.00	-	80.44	27.37	4.07	-
PK	2.4844G	66.50	74.00	-7.50	31.42	3	Vertical	197	1.00	-	35.08	27.33	4.09	-

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

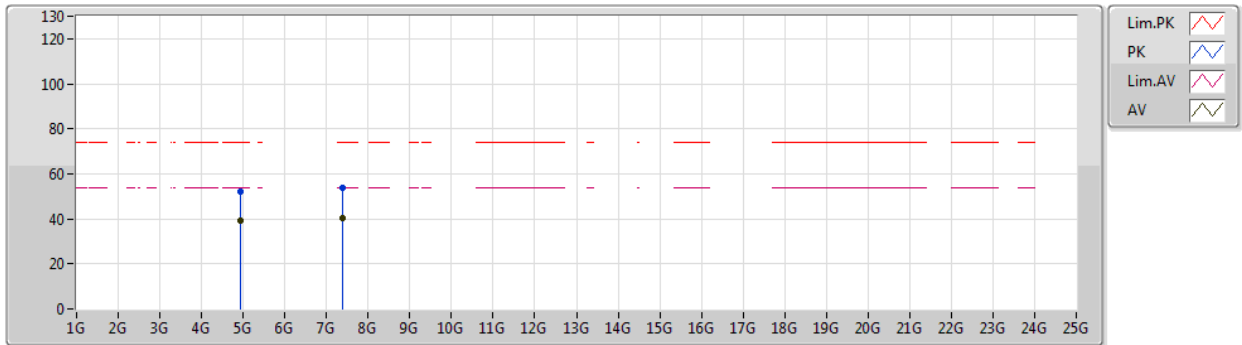
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802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

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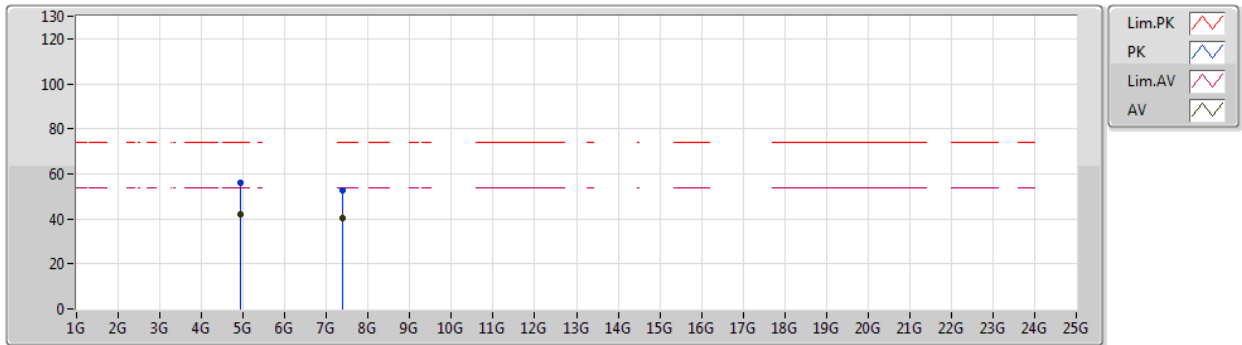


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92418G	39.23	54.00	-14.77	7.79	3	Vertical	124	1.37	-	31.44	31.27	5.87	29.35
AV	7.3845G	40.55	54.00	-13.45	13.14	3	Vertical	193	1.50	-	27.41	36.22	7.34	30.42
PK	4.92508G	51.89	74.00	-22.11	7.80	3	Vertical	124	1.37	-	44.09	31.28	5.87	29.35
PK	7.38234G	53.65	74.00	-20.35	13.15	3	Vertical	193	1.50	-	40.50	36.22	7.35	30.42

802.11n HT20_Nss1,(MCS0)_2TX

31/10/2019

2462MHz_TX

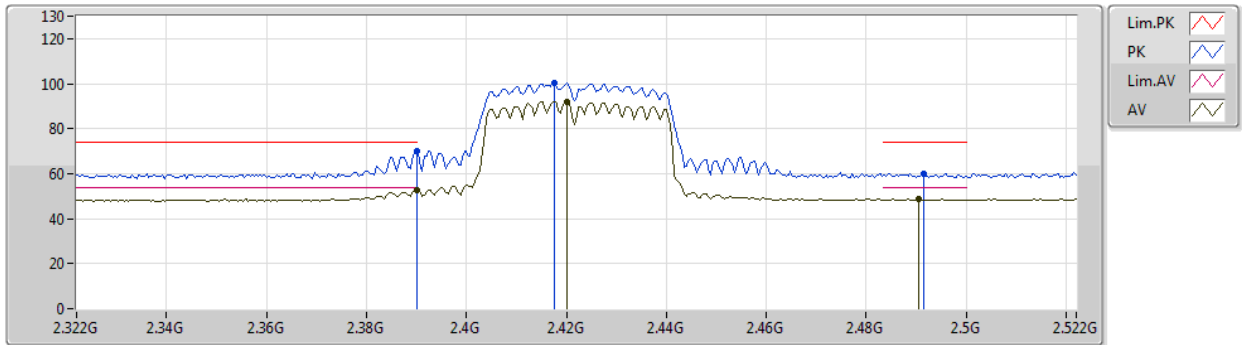


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92658G	42.23	54.00	-11.77	7.80	3	Horizontal	204	1.26	-	34.43	31.28	5.87	29.35
AV	7.38696G	40.24	54.00	-13.76	13.13	3	Horizontal	47	2.23	-	27.11	36.21	7.34	30.42
PK	4.92592G	56.18	74.00	-17.82	7.80	3	Horizontal	204	1.26	-	48.38	31.28	5.87	29.35
PK	7.38288G	52.48	74.00	-21.52	13.15	3	Horizontal	47	2.23	-	39.33	36.22	7.35	30.42

802.11n HT40_Nss1,(MCS0)_2TX

20/11/2019

2422MHz_TX

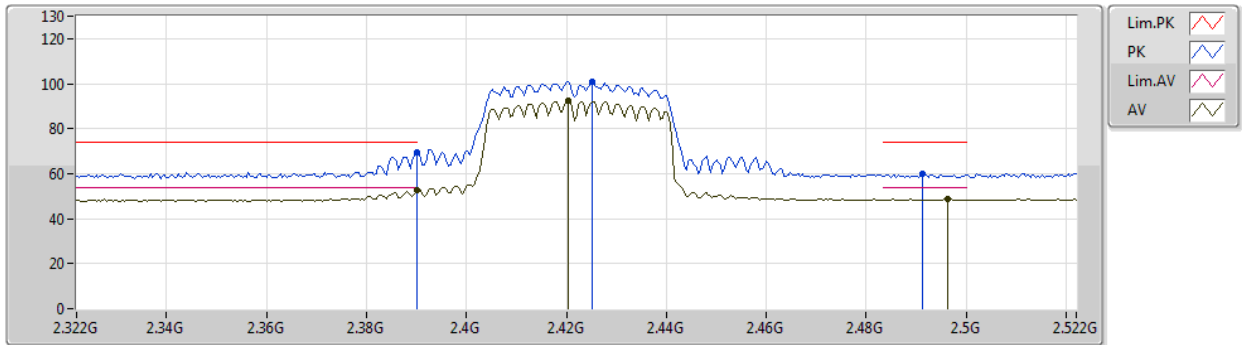


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.58	54.00	-1.42	34.97	3	Vertical	341	1.50	-	17.61	27.64	7.33	-
AV	2.42G	91.75	Inf	-Inf	34.92	3	Vertical	341	1.50	-	56.83	27.58	7.34	-
AV	2.4904G	48.56	54.00	-5.44	34.88	3	Vertical	341	1.50	-	13.68	27.51	7.37	-
PK	2.39G	69.80	74.00	-4.20	34.97	3	Vertical	341	1.50	-	34.83	27.64	7.33	-
PK	2.4176G	100.38	Inf	-Inf	34.92	3	Vertical	341	1.50	-	65.46	27.58	7.34	-
PK	2.4916G	59.94	74.00	-14.06	34.88	3	Vertical	341	1.50	-	25.06	27.51	7.37	-

802.11n HT40_Nss1,(MCS0)_2TX

20/11/2019

2422MHz_TX

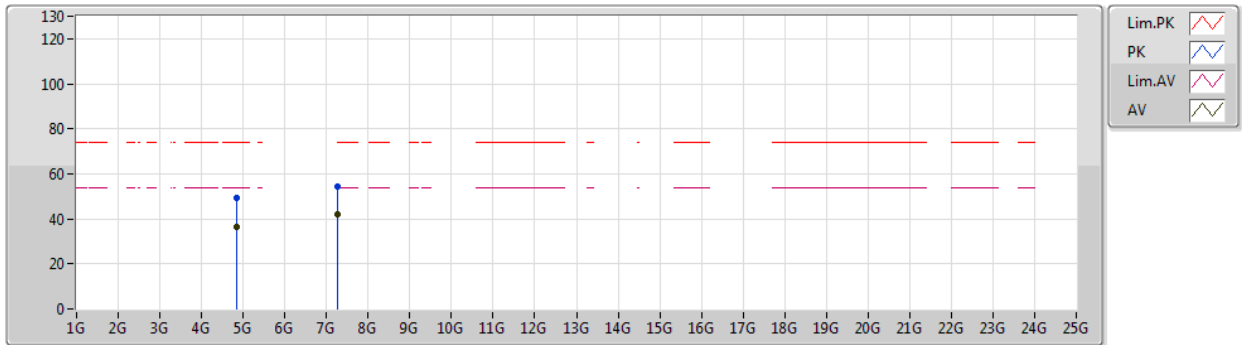


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.43	54.00	-1.57	34.97	3	Horizontal	81	1.00	-	17.46	27.64	7.33	-
AV	2.4204G	92.35	Inf	-Inf	34.92	3	Horizontal	81	1.00	-	57.43	27.58	7.34	-
AV	2.4964G	48.75	54.00	-5.25	34.87	3	Horizontal	81	1.00	-	13.88	27.50	7.37	-
PK	2.39G	69.73	74.00	-4.27	34.97	3	Horizontal	81	1.00	-	34.76	27.64	7.33	-
PK	2.4252G	100.86	Inf	-Inf	34.91	3	Horizontal	81	1.00	-	65.95	27.57	7.34	-
PK	2.4912G	59.77	74.00	-14.23	34.88	3	Horizontal	81	1.00	-	24.89	27.51	7.37	-

802.11n HT40_Nss1,(MCS0)_2TX

20/11/2019

2422MHz_TX

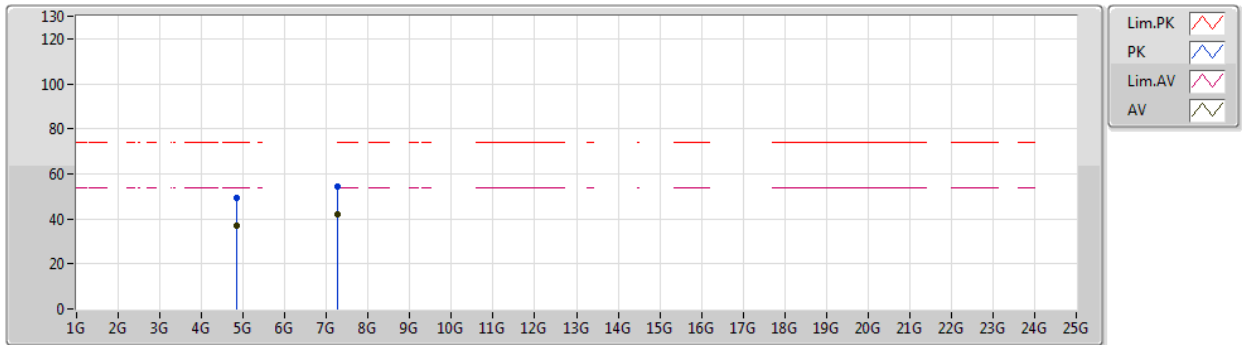


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.84006G	36.34	54.00	-17.66	7.00	3	Vertical	307	1.50	-	29.34	31.10	9.95	34.05
AV	7.2646G	41.80	54.00	-12.20	13.24	3	Vertical	275	3.00	-	28.56	36.23	11.28	34.27
PK	4.84522G	49.04	74.00	-24.96	7.00	3	Vertical	307	1.50	-	42.04	31.10	9.95	34.05
PK	7.26936G	54.29	74.00	-19.71	13.25	3	Vertical	275	3.00	-	41.04	36.24	11.28	34.27

802.11n HT40_Nss1,(MCS0)_2TX

20/11/2019

2422MHz_TX

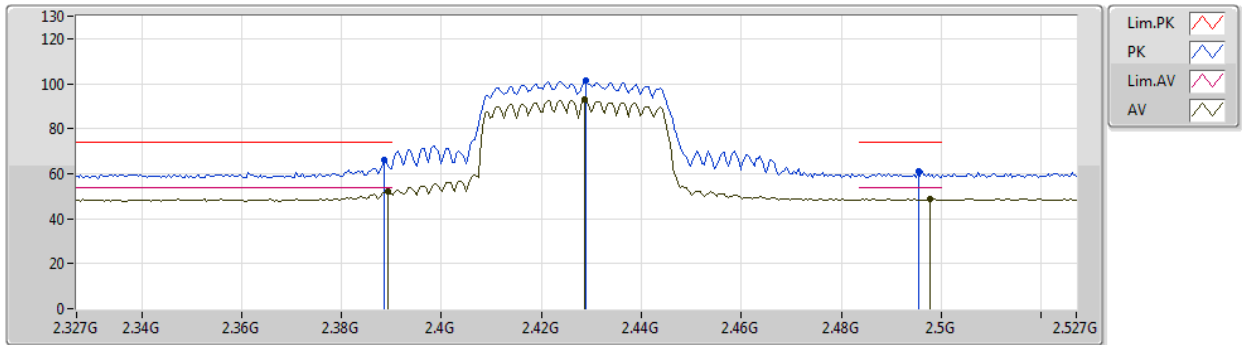


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8445G	36.95	54.00	-17.05	7.00	3	Horizontal	190	1.73	-	29.95	31.10	9.95	34.05
AV	7.26186G	41.89	54.00	-12.11	13.23	3	Horizontal	102	1.97	-	28.66	36.22	11.28	34.27
PK	4.8447G	49.35	74.00	-24.65	7.00	3	Horizontal	190	1.73	-	42.35	31.10	9.95	34.05
PK	7.26792G	54.15	74.00	-19.85	13.25	3	Horizontal	102	1.97	-	40.90	36.24	11.28	34.27

802.11n HT40_Nss1,(MCS0)_2TX

20/11/2019

2427MHz_TX

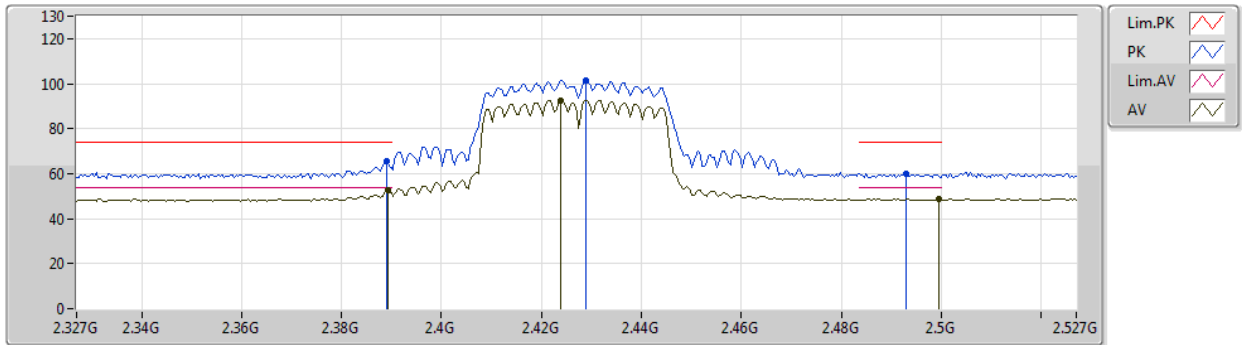


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	52.29	54.00	-1.71	34.97	3	Vertical	344	1.03	-	17.32	27.64	7.33	-
AV	2.4286G	92.93	Inf	-Inf	34.91	3	Vertical	344	1.03	-	58.02	27.57	7.34	-
AV	2.4978G	48.83	54.00	-5.17	34.87	3	Vertical	344	1.03	-	13.96	27.50	7.37	-
PK	2.3886G	66.12	74.00	-7.88	34.98	3	Vertical	344	1.03	-	31.14	27.65	7.33	-
PK	2.429G	101.25	Inf	-Inf	34.91	3	Vertical	344	1.03	-	66.34	27.57	7.34	-
PK	2.4954G	60.94	74.00	-13.06	34.87	3	Vertical	344	1.03	-	26.07	27.50	7.37	-

802.11n HT40_Nss1,(MCS0)_2TX

20/11/2019

2427MHz_TX

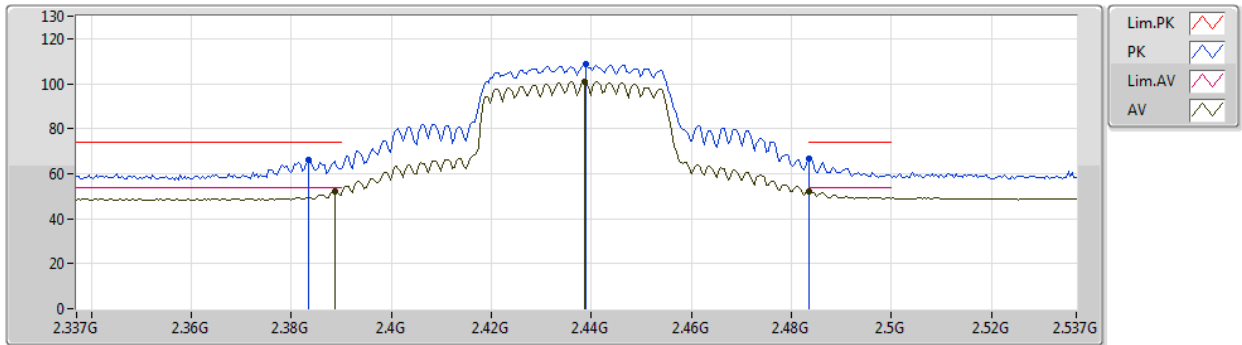


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	52.71	54.00	-1.29	34.97	3	Horizontal	87	1.00	-	17.74	27.64	7.33	-
AV	2.4238G	92.53	Inf	-Inf	34.92	3	Horizontal	87	1.00	-	57.61	27.58	7.34	-
AV	2.4994G	48.58	54.00	-5.42	34.87	3	Horizontal	87	1.00	-	13.71	27.50	7.37	-
PK	2.389G	65.49	74.00	-8.51	34.97	3	Horizontal	87	1.00	-	30.52	27.64	7.33	-
PK	2.429G	101.40	Inf	-Inf	34.91	3	Horizontal	87	1.00	-	66.49	27.57	7.34	-
PK	2.493G	60.03	74.00	-13.97	34.88	3	Horizontal	87	1.00	-	25.15	27.51	7.37	-

802.11n HT40_Nss1,(MCS0)_2TX

31/10/2019

2437MHz_TX

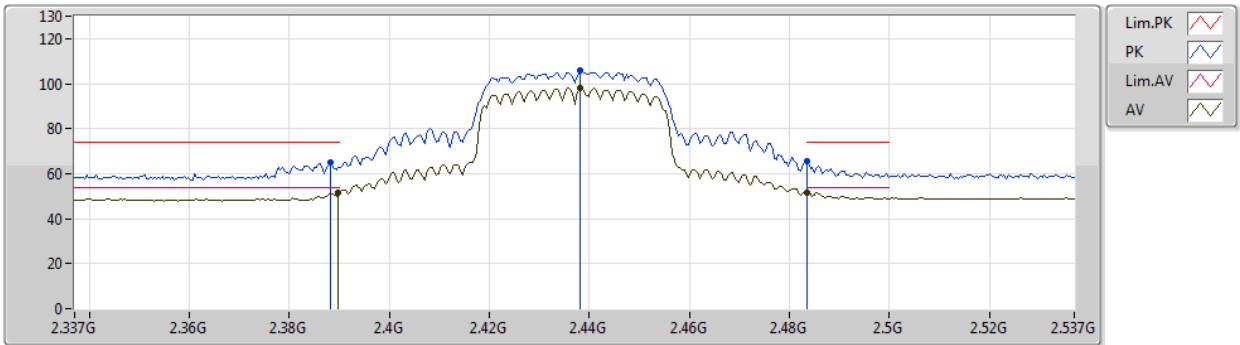


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3886G	52.31	54.00	-1.69	31.55	3	Vertical	191	1.18	-	20.76	27.55	4.00	-
AV	2.4386G	101.14	Inf	-Inf	31.46	3	Vertical	191	1.18	-	69.68	27.42	4.04	-
AV	2.4835G	52.21	54.00	-1.79	31.41	3	Vertical	191	1.18	-	20.80	27.33	4.08	-
PK	2.3834G	66.08	74.00	-7.92	31.56	3	Vertical	191	1.18	-	34.52	27.57	3.99	-
PK	2.439G	108.65	Inf	-Inf	31.46	3	Vertical	191	1.18	-	77.19	27.42	4.04	-
PK	2.4835G	66.58	74.00	-7.42	31.41	3	Vertical	191	1.18	-	35.17	27.33	4.08	-

802.11n HT40_Nss1,(MCS0)_2TX

31/10/2019

2437MHz_TX

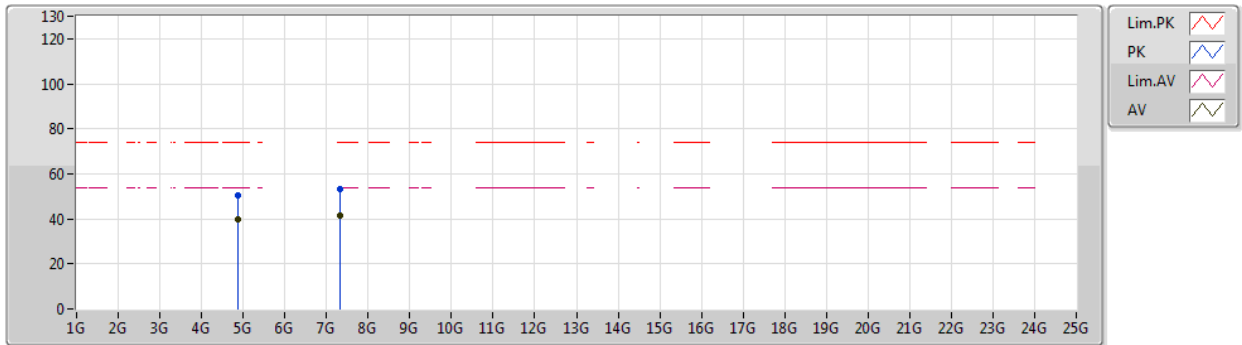


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	51.31	54.00	-2.69	31.54	3	Horizontal	177	1.40	-	19.77	27.54	4.00	-
AV	2.4382G	98.30	Inf	-Inf	31.46	3	Horizontal	177	1.40	-	66.84	27.42	4.04	-
AV	2.4835G	51.68	54.00	-2.32	31.41	3	Horizontal	177	1.40	-	20.27	27.33	4.08	-
PK	2.3882G	64.83	74.00	-9.17	31.54	3	Horizontal	177	1.40	-	33.29	27.55	3.99	-
PK	2.4382G	105.85	Inf	-Inf	31.46	3	Horizontal	177	1.40	-	74.39	27.42	4.04	-
PK	2.4835G	65.44	74.00	-8.56	31.41	3	Horizontal	177	1.40	-	34.03	27.33	4.08	-

802.11n HT40_Nss1,(MCS0)_2TX

31/10/2019

2437MHz_TX

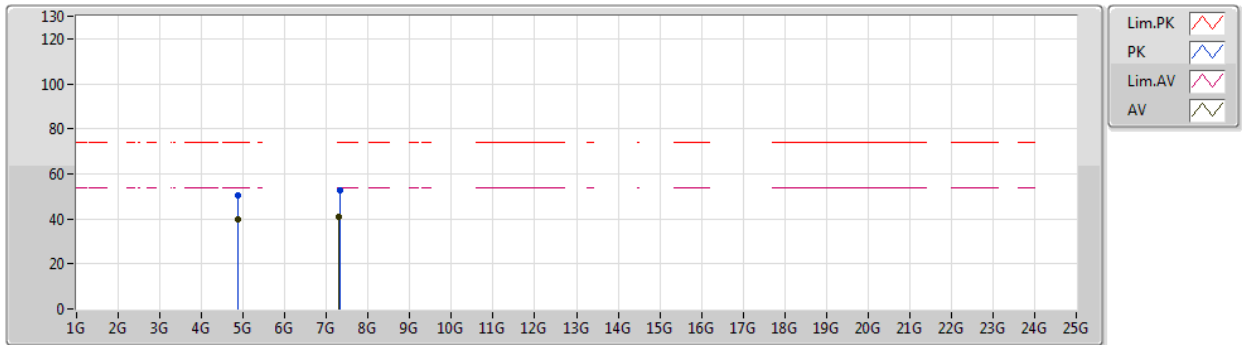


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87394G	39.82	54.00	-14.18	7.62	3	Vertical	124	1.11	-	32.20	31.17	5.83	29.38
AV	7.31598G	41.71	54.00	-12.29	13.39	3	Vertical	198	3.00	-	28.32	36.28	7.47	30.36
PK	4.87358G	50.61	74.00	-23.39	7.62	3	Vertical	124	1.11	-	42.99	31.17	5.83	29.38
PK	7.31976G	53.33	74.00	-20.67	13.38	3	Vertical	198	3.00	-	39.95	36.28	7.46	30.36

802.11n HT40_Nss1,(MCS0)_2TX

31/10/2019

2437MHz_TX

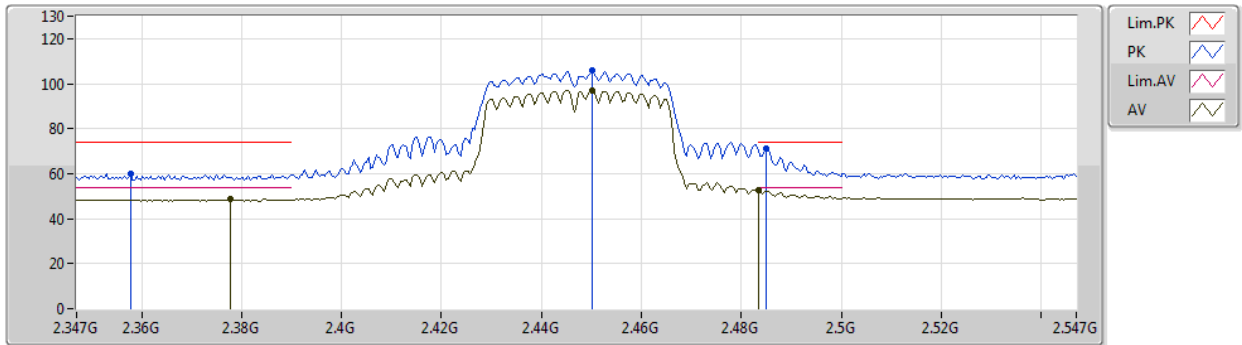


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8737G	39.62	54.00	-14.38	7.62	3	Horizontal	203	1.25	-	32.00	31.17	5.83	29.38
AV	7.3011G	40.73	54.00	-13.27	13.45	3	Horizontal	89	2.43	-	27.28	36.30	7.50	30.35
PK	4.87556G	50.38	74.00	-23.62	7.63	3	Horizontal	203	1.25	-	42.75	31.18	5.83	29.38
PK	7.3176G	52.41	74.00	-21.59	13.39	3	Horizontal	89	2.43	-	39.02	36.28	7.47	30.36

802.11n HT40_Nss1,(MCS0)_2TX

31/10/2019

2447MHz_TX

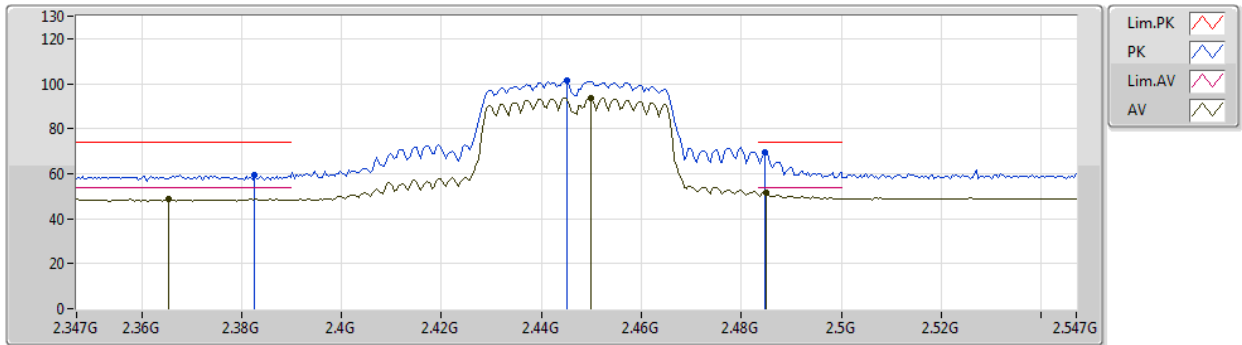


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3778G	48.58	54.00	-5.42	31.58	3	Vertical	194	1.00	-	17.00	27.59	3.99	-
AV	2.4502G	96.99	Inf	-Inf	31.45	3	Vertical	194	1.00	-	65.54	27.40	4.05	-
AV	2.4835G	52.86	54.00	-1.14	31.41	3	Vertical	194	1.00	-	21.45	27.33	4.08	-
PK	2.3578G	60.17	74.00	-13.83	31.64	3	Vertical	194	1.00	-	28.53	27.67	3.97	-
PK	2.4502G	105.75	Inf	-Inf	31.45	3	Vertical	194	1.00	-	74.30	27.40	4.05	-
PK	2.485G	71.12	74.00	-2.88	31.42	3	Vertical	194	1.00	-	39.70	27.33	4.09	-

802.11n HT40_Nss1,(MCS0)_2TX

31/10/2019

2447MHz_TX

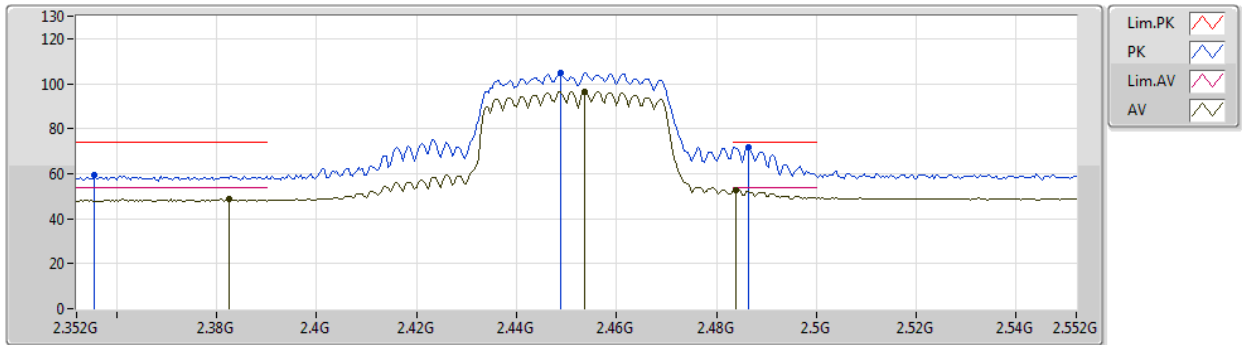


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3654G	48.81	54.00	-5.19	31.61	3	Horizontal	178	1.75	-	17.20	27.64	3.97	-
AV	2.4498G	93.69	Inf	-Inf	31.45	3	Horizontal	178	1.75	-	62.24	27.40	4.05	-
AV	2.485G	51.70	54.00	-2.30	31.42	3	Horizontal	178	1.75	-	20.28	27.33	4.09	-
PK	2.3826G	59.43	74.00	-14.57	31.56	3	Horizontal	178	1.75	-	27.87	27.57	3.99	-
PK	2.445G	101.40	Inf	-Inf	31.46	3	Horizontal	178	1.75	-	69.94	27.41	4.05	-
PK	2.4846G	69.37	74.00	-4.63	31.42	3	Horizontal	178	1.75	-	37.95	27.33	4.09	-

802.11n HT40_Nss1,(MCS0)_2TX

31/10/2019

2452MHz_TX

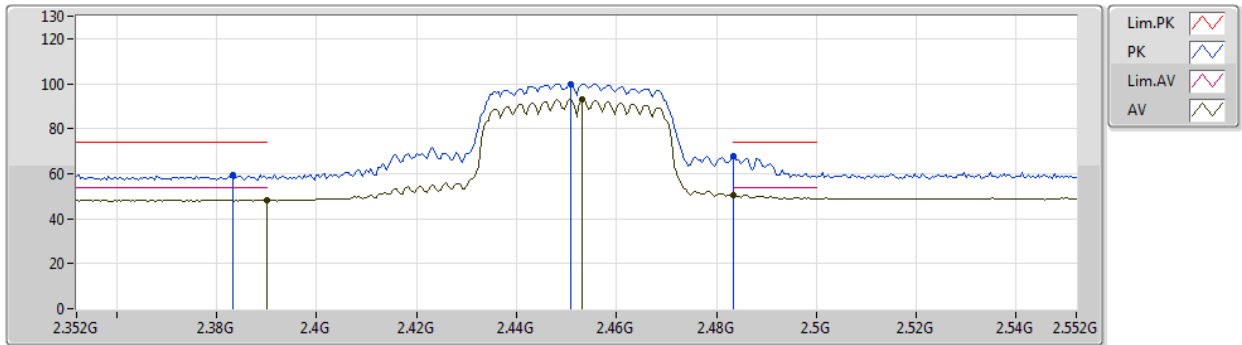


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3824G	48.82	54.00	-5.18	31.56	3	Vertical	192	1.00	-	17.26	27.57	3.99	-
AV	2.4536G	96.36	Inf	-Inf	31.45	3	Vertical	192	1.00	-	64.91	27.39	4.06	-
AV	2.484G	52.87	54.00	-1.13	31.41	3	Vertical	192	1.00	-	21.46	27.33	4.08	-
PK	2.3556G	59.32	74.00	-14.68	31.64	3	Vertical	192	1.00	-	27.68	27.68	3.96	-
PK	2.4488G	104.96	Inf	-Inf	31.45	3	Vertical	192	1.00	-	73.51	27.40	4.05	-
PK	2.4864G	71.91	74.00	-2.09	31.42	3	Vertical	192	1.00	-	40.49	27.33	4.09	-

802.11n HT40_Nss1,(MCS0)_2TX

31/10/2019

2452MHz_TX

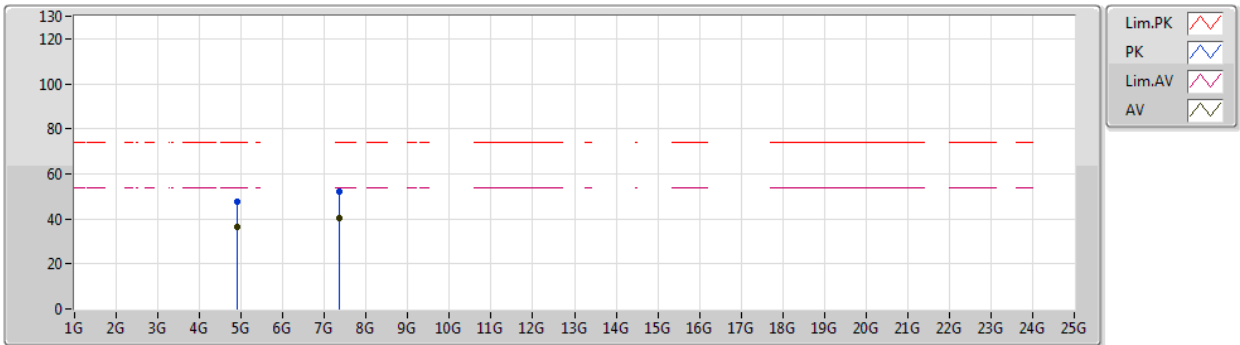


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	48.39	54.00	-5.61	31.54	3	Horizontal	176	1.25	-	16.85	27.54	4.00	-
AV	2.4532G	92.98	Inf	-Inf	31.45	3	Horizontal	176	1.25	-	61.53	27.39	4.06	-
AV	2.4835G	50.52	54.00	-3.48	31.41	3	Horizontal	176	1.25	-	19.11	27.33	4.08	-
PK	2.3832G	59.36	74.00	-14.64	31.56	3	Horizontal	176	1.25	-	27.80	27.57	3.99	-
PK	2.4508G	99.91	Inf	-Inf	31.45	3	Horizontal	176	1.25	-	68.46	27.40	4.05	-
PK	2.4835G	67.71	74.00	-6.29	31.41	3	Horizontal	176	1.25	-	36.30	27.33	4.08	-

802.11n HT40_Nss1,(MCS0)_2TX

31/10/2019

2452MHz_TX

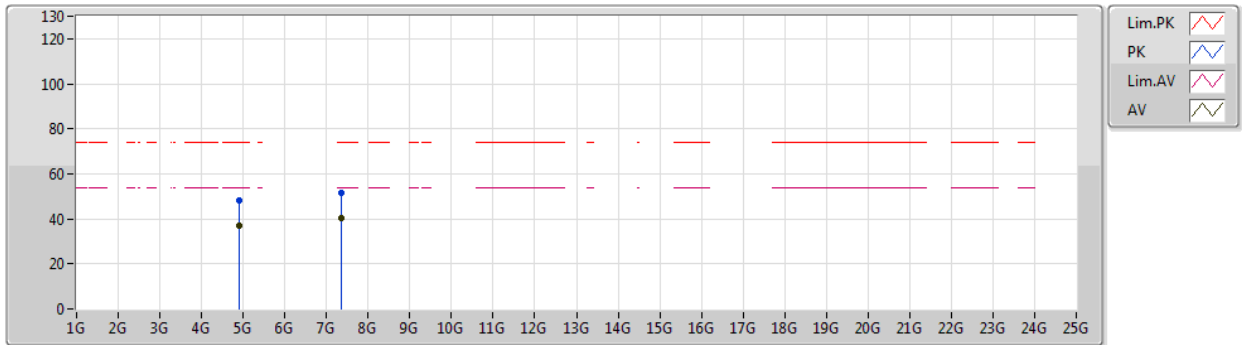


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9037G	36.37	54.00	-17.63	7.70	3	Vertical	125	1.15	-	28.67	31.21	5.85	29.36
AV	7.34316G	40.42	54.00	-13.58	13.29	3	Vertical	331	1.42	-	27.13	36.26	7.42	30.39
PK	4.91318G	47.35	74.00	-26.65	7.74	3	Vertical	125	1.15	-	39.61	31.24	5.86	29.36
PK	7.3506G	52.29	74.00	-21.71	13.26	3	Vertical	331	1.42	-	39.03	36.25	7.40	30.39

802.11n HT40_Nss1,(MCS0)_2TX

31/10/2019

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	4.904G	36.86	54.00	-17.14	7.70	3	Horizontal	205	1.32	-	29.16	31.21	5.85	29.36
AV	7.36254G	40.39	54.00	-13.61	13.22	3	Horizontal	121	1.50	-	27.17	36.24	7.38	30.40
PK	4.91384G	48.21	74.00	-25.79	7.74	3	Horizontal	205	1.32	-	40.47	31.24	5.86	29.36
PK	7.35396G	51.53	74.00	-22.47	13.26	3	Horizontal	121	1.50	-	38.27	36.25	7.40	30.39