

FCC Test Report

FCC ID : SWX-UDM
Equipment : UniFi Dream Machine
Brand Name : UBIQUITI
Model Name : UDM
Applicant : Ubiquiti Networks, Inc.
685 Third Avenue, 27th Floor New York,
New York 10017 USA
Manufacturer : Ubiquiti Networks, Inc.
685 Third Avenue, 27th Floor New York,
New York 10017 USA
Standard : 47 CFR FCC Part 15.247

The product was received on Nov. 07, 2017, and testing was started from Nov. 07, 2017 and completed on Nov. 06, 2018. . We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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PHOTOGRAPHS OF EUT V02



History of this test report

Report No.	Version	Description	Issued Date
FR870420AC	01	Initial issue of report	Nov. 09, 2018
FR870420AC	02	Update Photographs of EUT	Nov. 15, 2018



Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	FCC 15.203
3.1	15.207	AC Power-line Conducted Emissions	PASS	FCC 15.207
3.2	15.247(a)	DTS Bandwidth	PASS	≥500kHz
3.3	15.247(b)	Maximum Conducted Output Power	PASS	Power [dBm]: 30
3.4	15.247(e)	Power Spectral Density	PASS	PSD [dBm/3kHz]: 8
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	Non-Restricted Bands: > 30 dBc
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	Restricted Bands: FCC 15.209

Reviewed by: Sam Tsai

Report Producer: Jenny Yang

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	Gain (dBi)
1	-	-	internal antenna	I-Pex	3
2	-	-	internal antenna	I-Pex	3

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

Ant. 1 and Ant. 2 could transmit/receive simultaneously.



1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.981	0.083	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.905	0.434	1.397m	1k
802.11n HT20	0.89	0.506	1.184m	1k
802.11n HT40	0.808	0.926	590.625u	3k

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 v05

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date	Remark
RF Conducted	TH06-HY	Tim	25.5°C / 60%	25/Jul/2018	for Maximum Conducted Output Power & Power Spectral Density
RF Conducted	TH06-HY	Tim	24.5°C / 65%	22/Nov/2017	for DTS Bandwidth & Emissions in Non-restricted Frequency Bands
Radiated	03CH02-HY	Jeff	23.2°C / 51	06/Nov/2018	-
AC Conduction	CO04-HY	Andy	24.8°C / 56.5	06/Oct/2018	-

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)	3.6 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.0 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	Putty
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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	Switching Power Supply mode

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

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



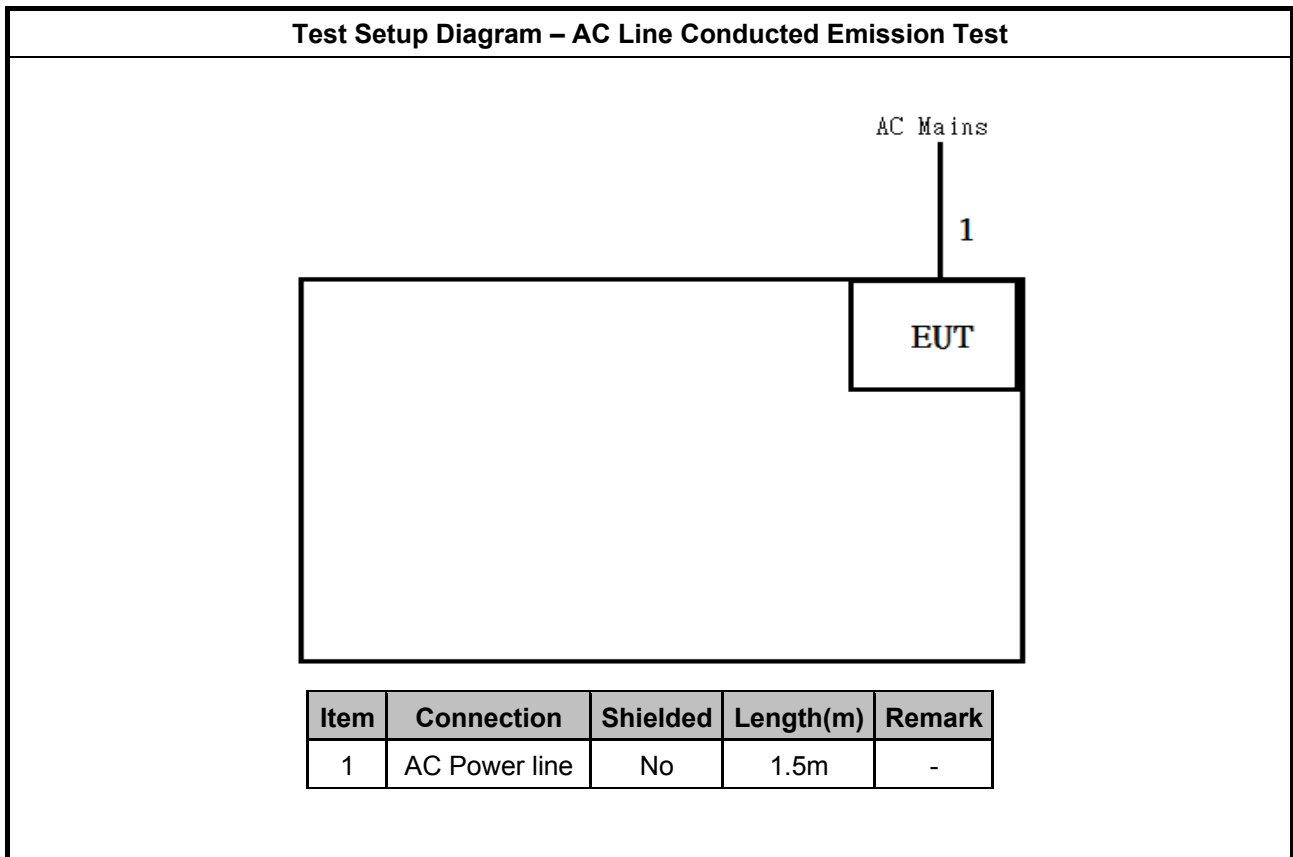
2.4 Support Equipment

Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	R33002 / DOC
2	Adapter for NB	DELL	HA65NM130	R35737 / DOC
3	AC Power Line	-	-	-

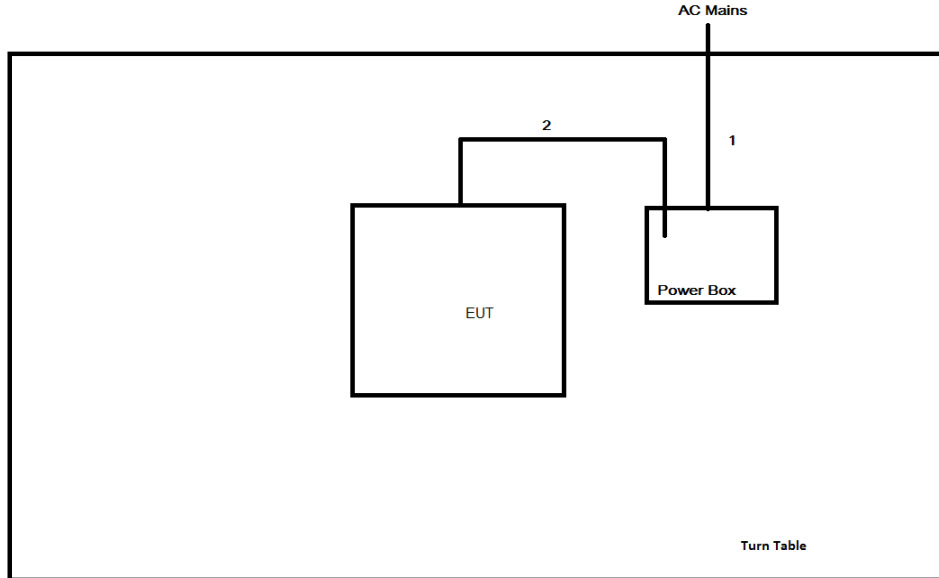
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	AC Power Line	-	-	-

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	AC Power Line	-	-	-

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

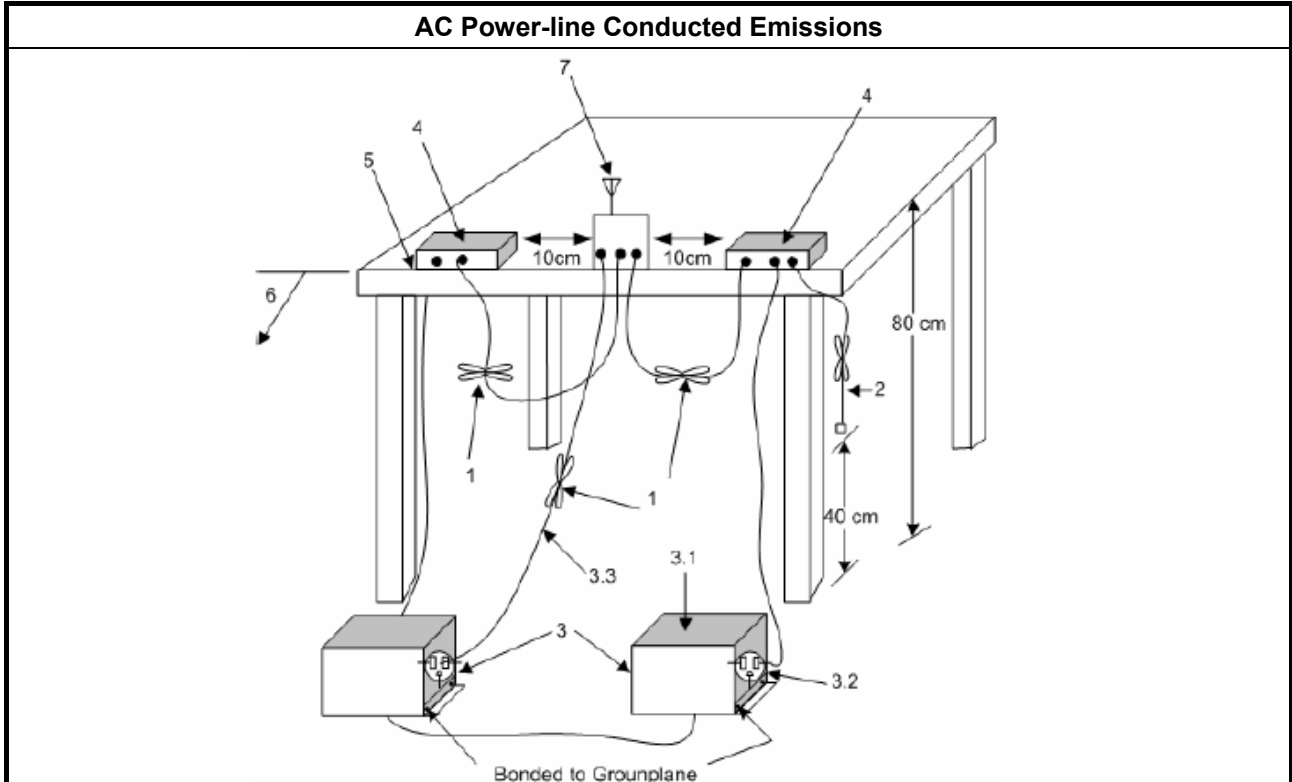
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

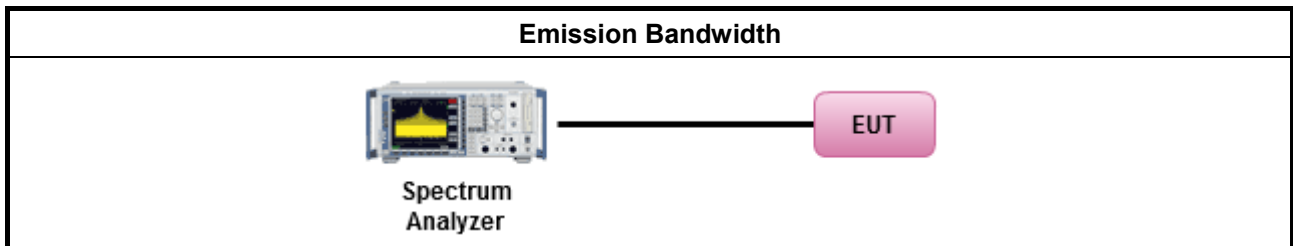
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as KDB 558074. clause 8.2 (11.9.2.2 of ANSI C63.10) DTS bandwidth measurement.
<input type="checkbox"/> Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS):
	<ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dBm
e.i.r.p. Power Limit:	
	<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS)
	<ul style="list-style-type: none"> - Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
<p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

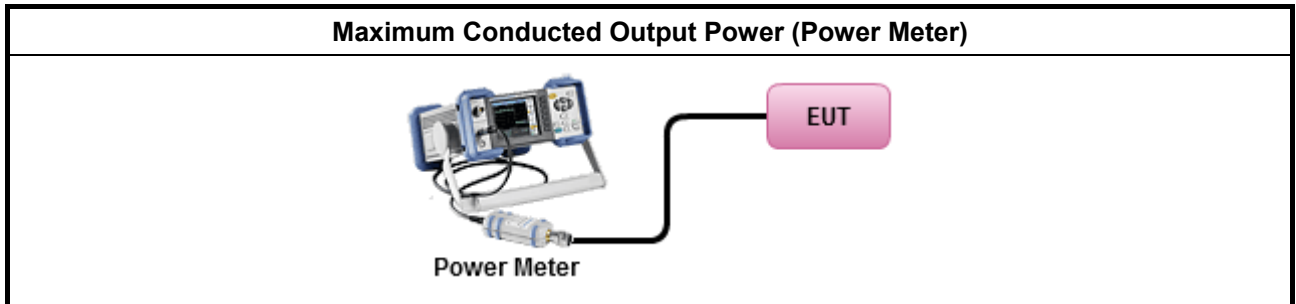
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
<ul style="list-style-type: none"> ▪ Maximum Average Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. 	
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> Power Spectral Density (PSD) \leq 8 dBm/3kHz

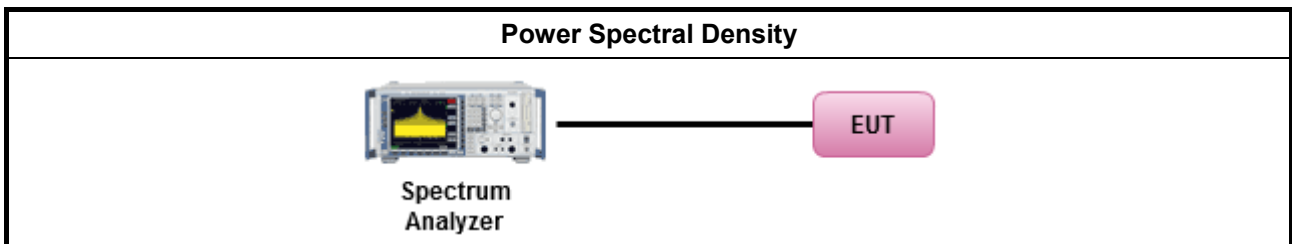
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
	<ul style="list-style-type: none"> Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Method PKPSD.
	<ul style="list-style-type: none"> For conducted measurement.
	<ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

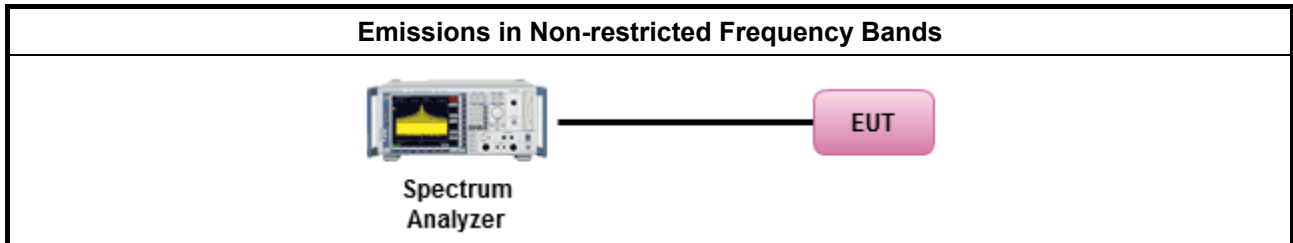
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

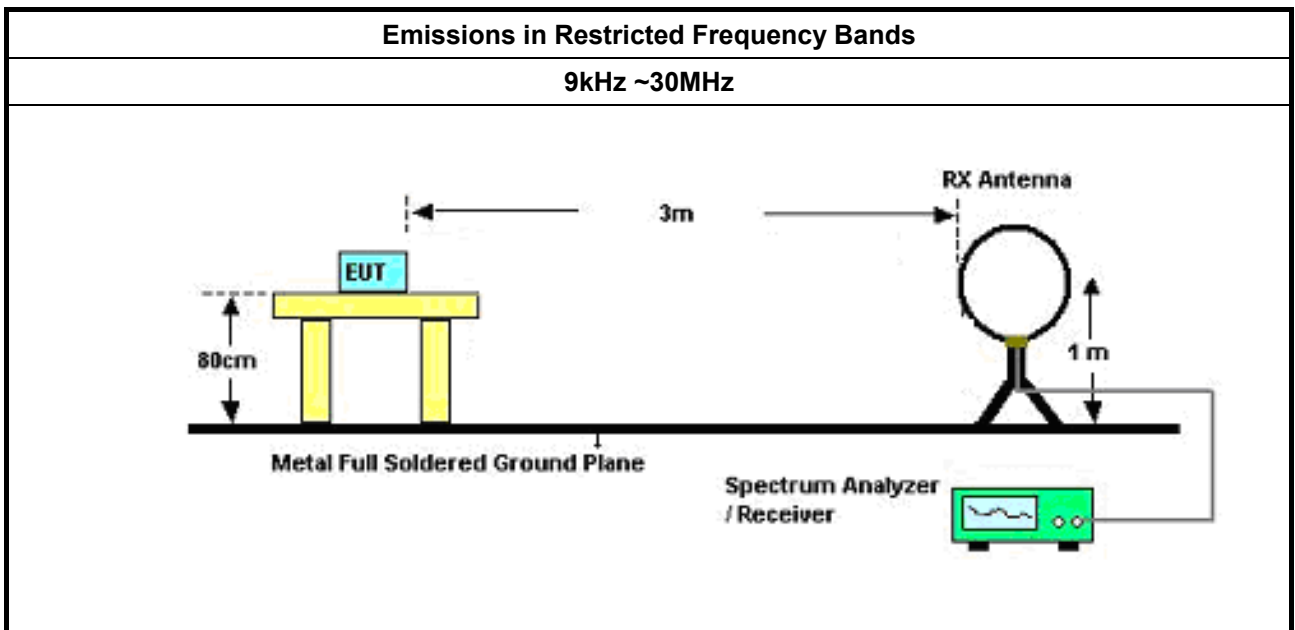
3.6.2 Measuring Instruments

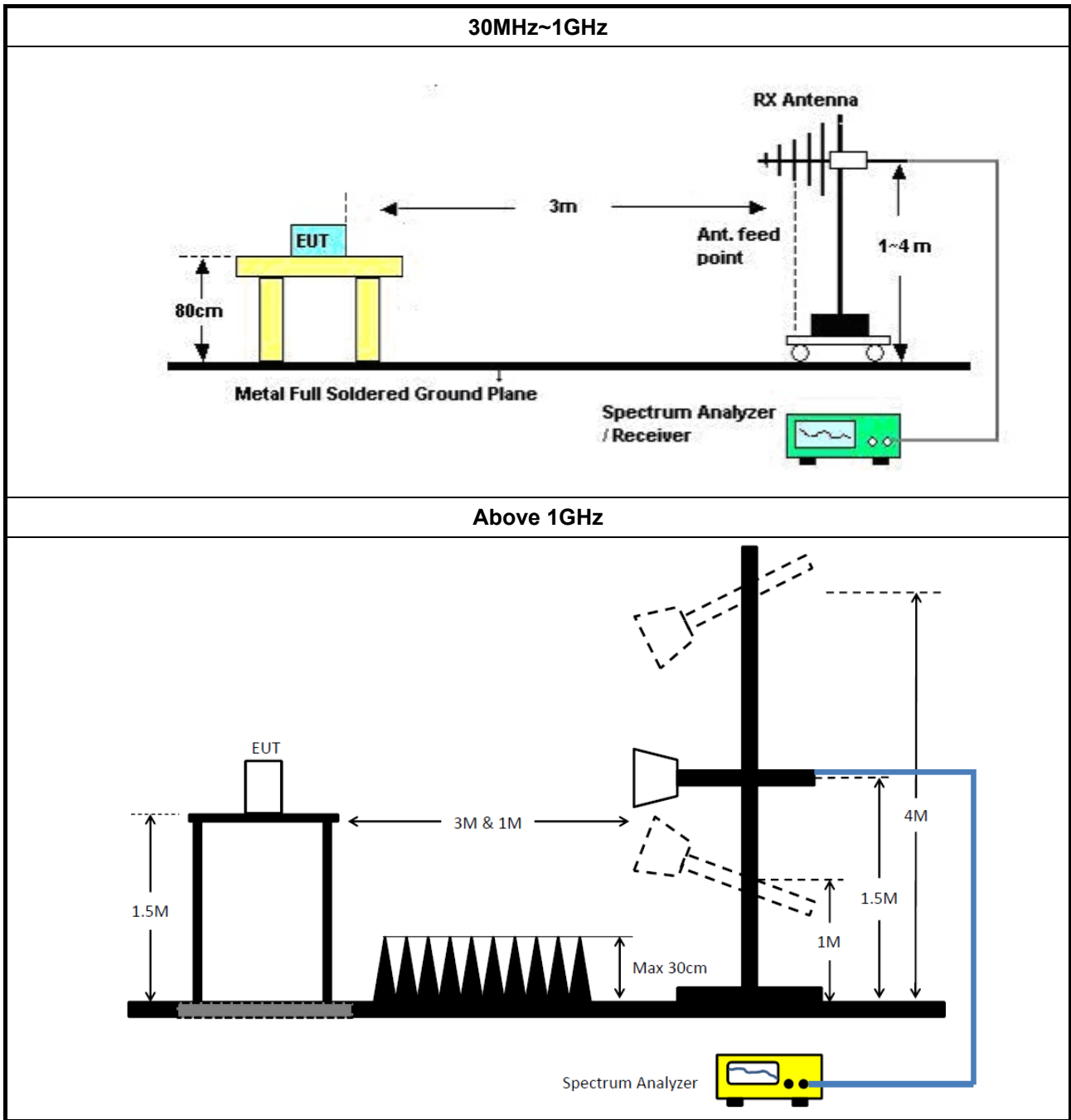
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
	<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below: <ul style="list-style-type: none"> Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	<ul style="list-style-type: none"> For the transmitter band-edge emissions shall be measured using following options below: <ul style="list-style-type: none"> Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below. Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements. Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).

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	ESR	102051	9KHz ~ 3.6GHz	03/May/2018	02/May/2019
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	17/Nov/2017	16/Nov/2018
RF Cable-CON	HUBER+ SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	05/Oct/2018	04/Oct/2019
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2017	11/Oct/2018

NCR : Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Generator	R&S	SMR 40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018
Pulse Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	27/Feb/2018	26/Feb/2019
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	27/Feb/2018	26/Feb/2019
CABLE 0.2m	HUBER	MY37960/4	RF Cable - 17	1G to 18GHz	17/Jan/2018	16/Jan/2019
CABLE 0.2m	HUBER	MY37960/4	RF Cable - 17	30M to 1000MHz	17/Jan/2018	16/Jan/2019
CABLE 0.5m	HUBER	MY37963/4	RF Cable - 22	1G to 18GHz	17/Jan/2018	16/Jan/2019
Spectrum Analyzer	R&S	FSV 40	101515	9kHz~40GHz	26/Nov/2016	25/Nov/2017
RF Cable-0.2m	HUBER+ SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+ SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.5m	HUBER+ SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018

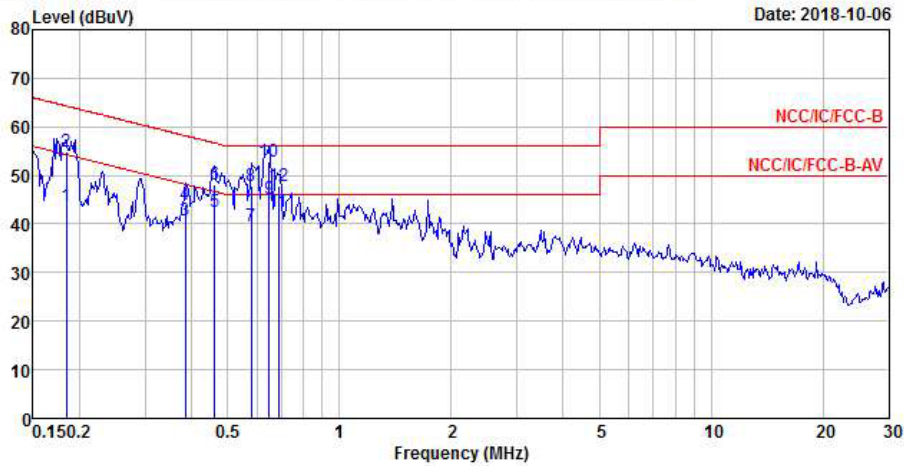
**Instrument for Radiated Test**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	17/Oct/2018	16/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	27/Oct/2017	26/Oct/2018
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	23/Apr/2018	19/Apr/2019
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	28/Sep/2017	27/Sep/2018
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz ~ 26.5GHz	05/Sep/2018	04/Sep/2019
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	12/Dec/2017	11/Dec/2018
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100354	9kHz ~ 2.75GHz	08/Dec/2017	07/Dec/2018
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	19/Jan/2018	18/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	19/Jan/2018	18/Jan/2019
Bilog Antenna	SCHAFFNER	CBL 6112D	2678	30MHz ~ 1GHz	07/Jul/2018	06/Jul/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	06/Feb/2018	05/Feb/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120 D 1531	1GHz ~ 18GHz	18/Apr/ 2018	17/Apr/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019



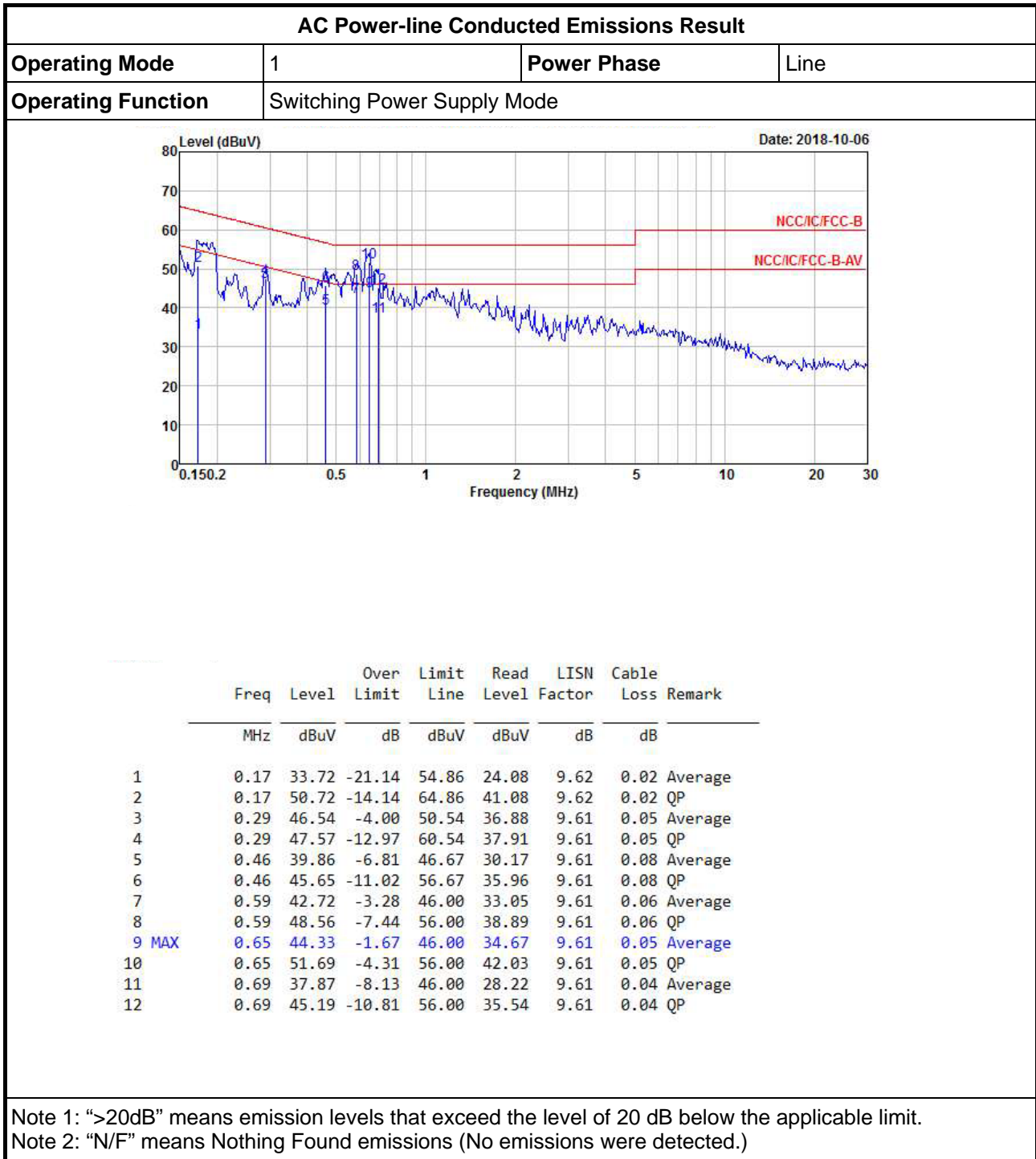
AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Switching Power Supply Mode		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.18	43.61	-10.67	54.28	33.98	9.62	0.01	Average
2	0.18	54.94	-9.34	64.28	45.31	9.62	0.01	QP
3	0.39	40.85	-7.32	48.17	31.15	9.61	0.09	Average
4	0.39	43.92	-14.25	58.17	34.22	9.61	0.09	QP
5	0.46	42.37	-4.30	46.67	32.68	9.61	0.08	Average
6	0.46	48.06	-8.61	56.67	38.37	9.61	0.08	QP
7	0.58	39.67	-6.33	46.00	30.00	9.61	0.06	Average
8	0.58	47.88	-8.12	56.00	38.21	9.61	0.06	QP
9 MAX	0.65	45.11	-0.89	46.00	35.44	9.62	0.05	Average
10	0.65	52.97	-3.03	56.00	43.30	9.62	0.05	QP
11	0.69	42.51	-3.49	46.00	32.85	9.62	0.04	Average
12	0.69	47.77	-8.23	56.00	38.11	9.62	0.04	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)





Summary

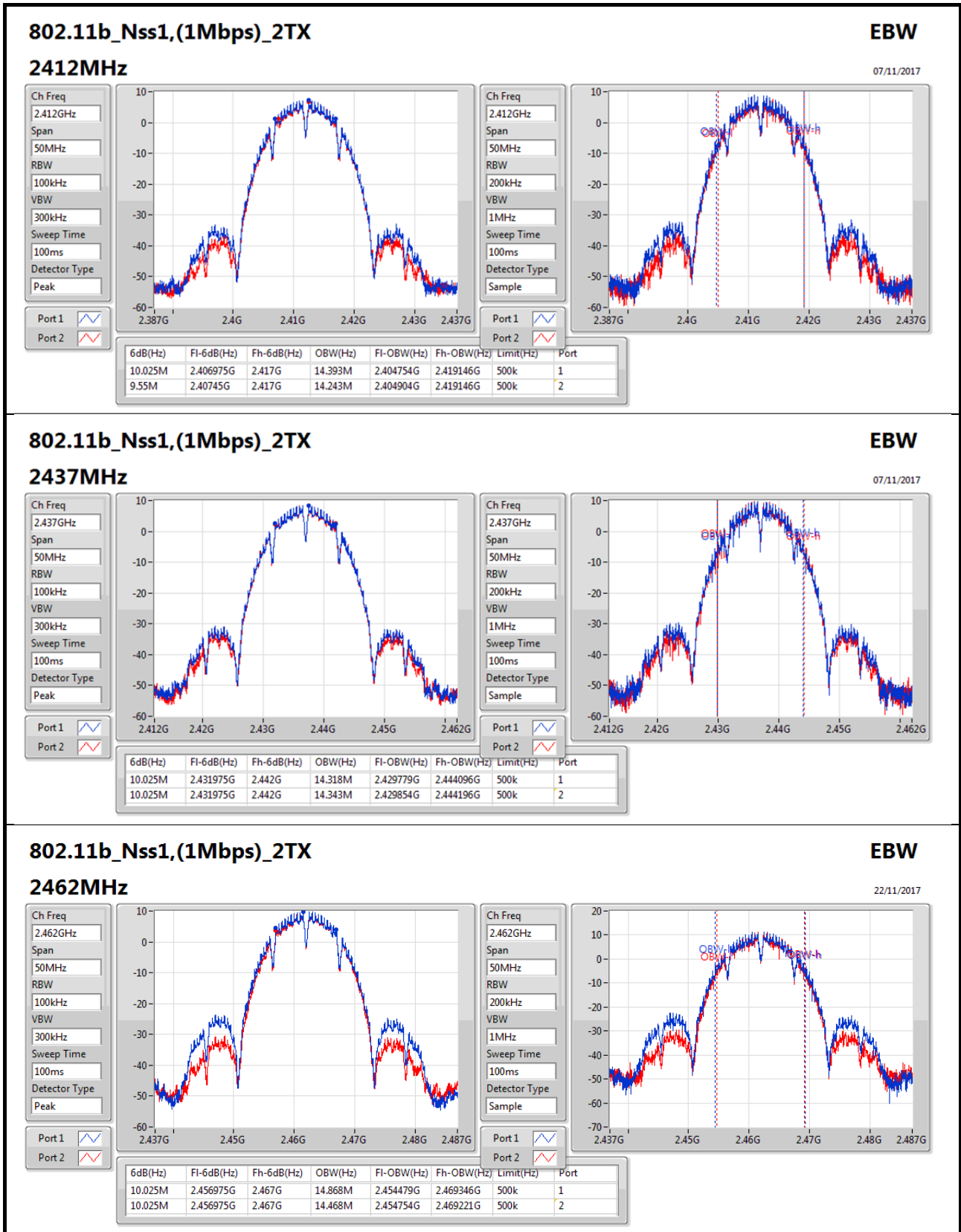
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	10.025M	14.868M	14M9G1D	9.55M	14.243M
802.11g_Nss1,(6Mbps)_2TX	15.05M	16.667M	16M7D1D	15.025M	16.317M
802.11n HT20_Nss1,(MCS0)_2TX	15.375M	17.791M	17M8D1D	13.15M	17.516M
802.11n HT40_Nss1,(MCS0)_2TX	35.1M	35.982M	36M0D1D	33.75M	35.782M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	10.025M	14.393M	9.55M	14.243M
2437MHz	Pass	500k	10.025M	14.318M	10.025M	14.343M
2462MHz	Pass	500k	10.025M	14.868M	10.025M	14.468M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.05M	16.317M	15.05M	16.342M
2437MHz	Pass	500k	15.05M	16.667M	15.025M	16.492M
2462MHz	Pass	500k	15.05M	16.367M	15.05M	16.342M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.075M	17.541M	14.4M	17.516M
2437MHz	Pass	500k	13.15M	17.791M	15.375M	17.666M
2462MHz	Pass	500k	15.1M	17.566M	15.025M	17.541M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.05M	35.832M	33.75M	35.882M
2437MHz	Pass	500k	35.1M	35.832M	34.95M	35.932M
2452MHz	Pass	500k	35M	35.782M	35.05M	35.982M

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


802.11b_Nss1,(1Mbps)_2TX
EBW

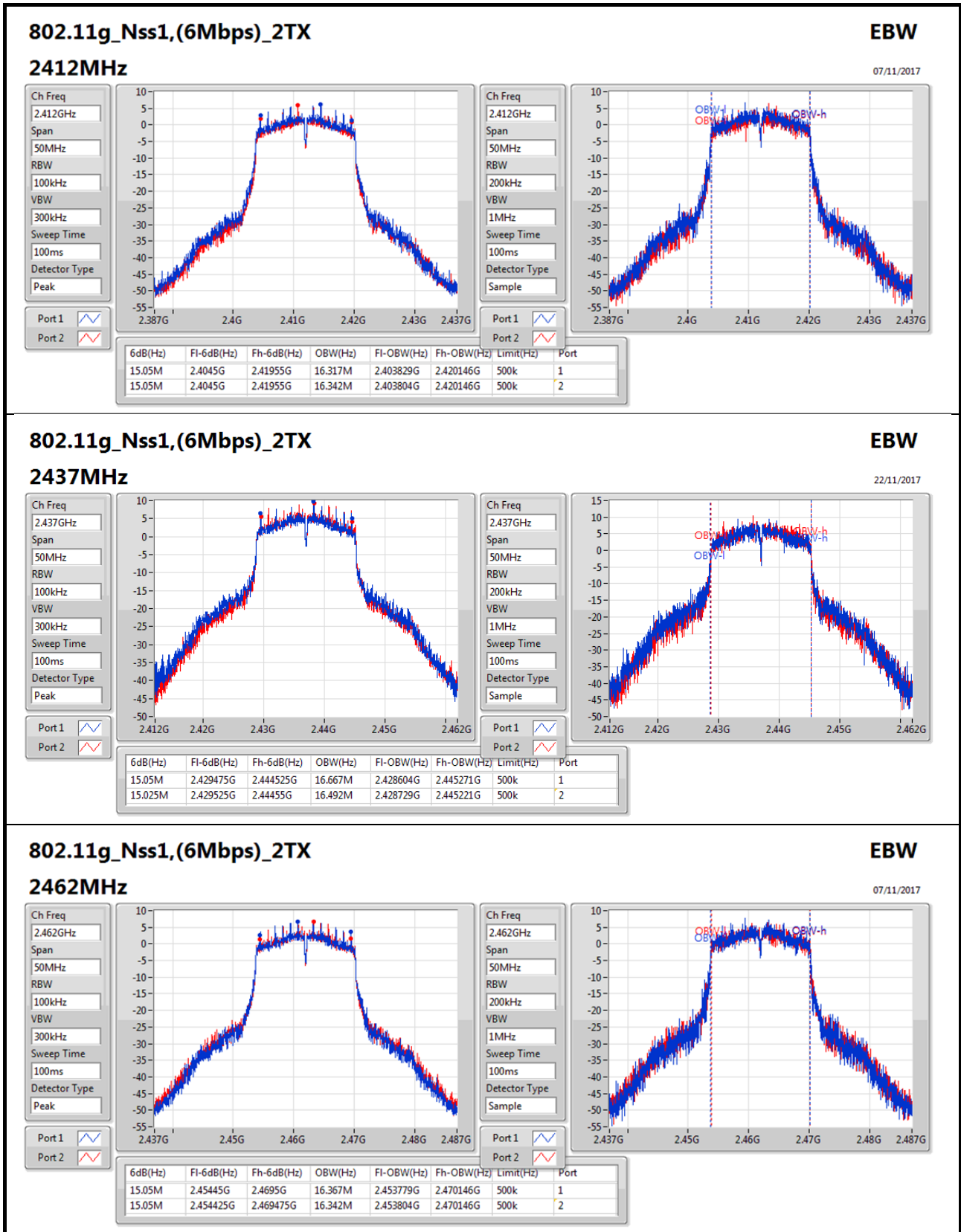
22/11/2017

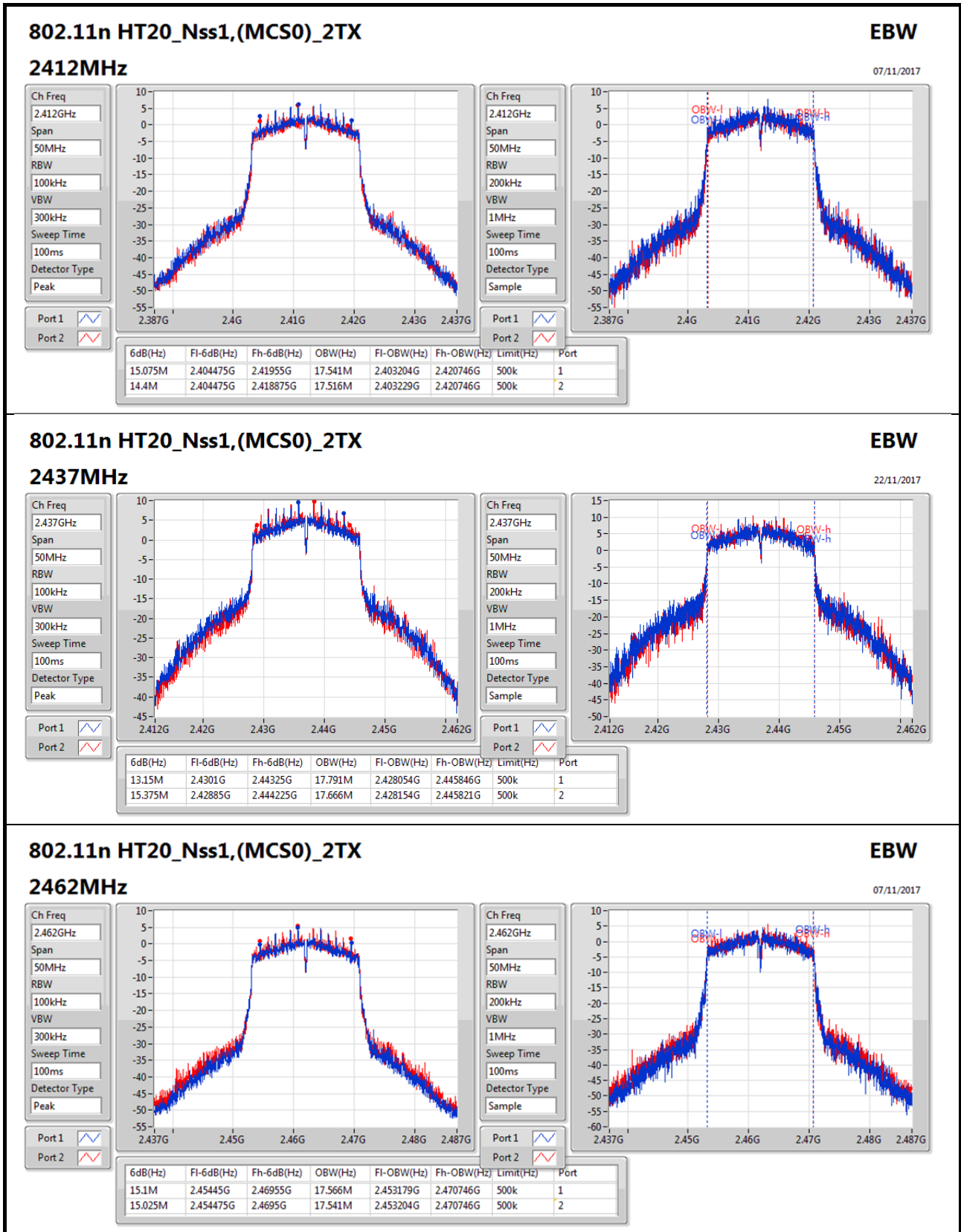
2462MHz

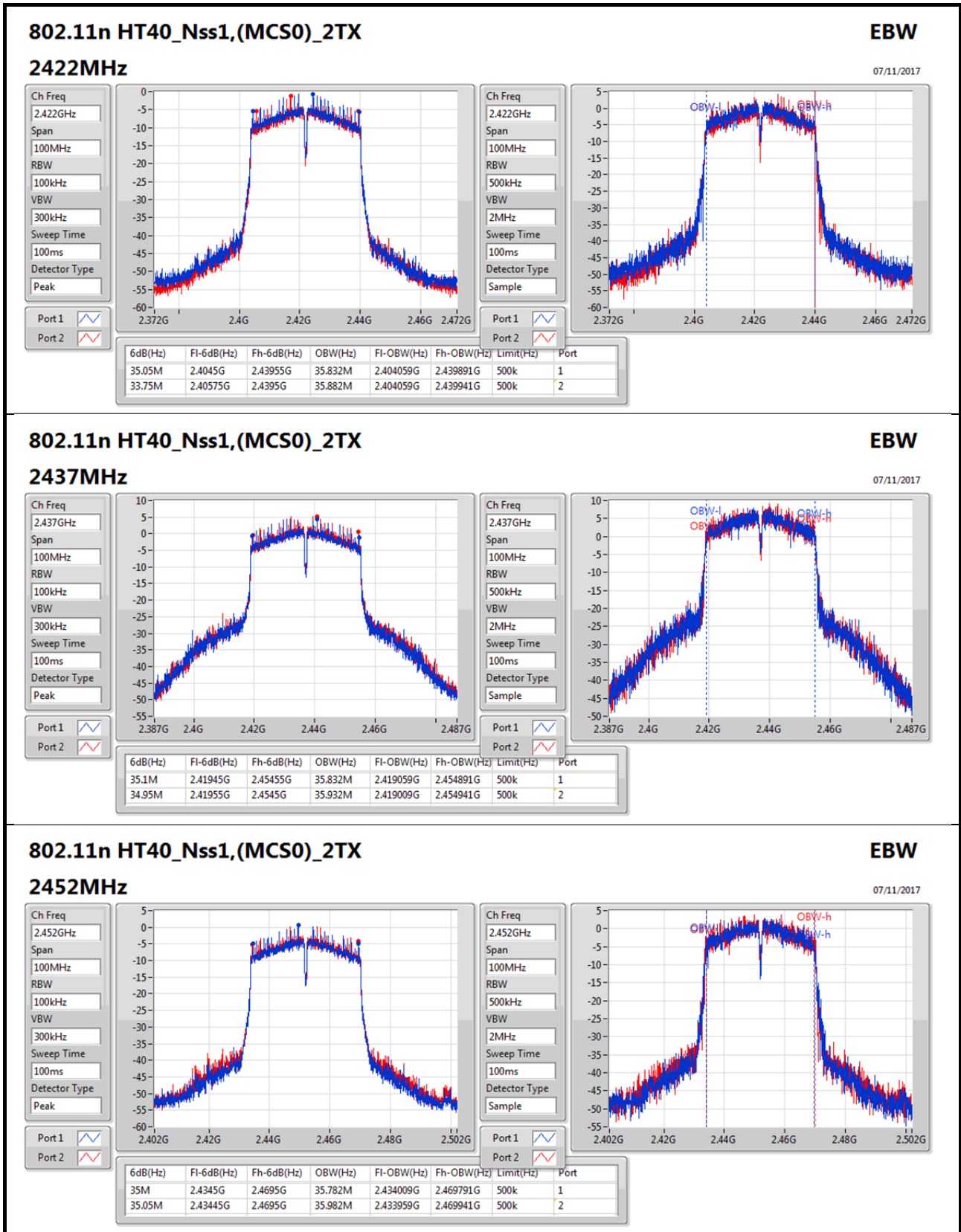
Ch Freq: 2.462GHz
Span: 50MHz
RBW: 100kHz
VBW: 300kHz
Sweep Time: 100ms
Detector Type: Peak

Ch Freq: 2.462GHz
Span: 50MHz
RBW: 200kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Sample

6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.025M	2.456975G	2.467G	14.868M	2.454479G	2.469346G	500k	1
10.025M	2.456975G	2.467G	14.468M	2.454754G	2.469221G	500k	2









Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	22.68	0.18535
802.11g_Nss1,(6Mbps)_2TX	22.68	0.18535
802.11n HT20_Nss1,(MCS0)_2TX	22.90	0.19498
802.11n HT40_Nss1,(MCS0)_2TX	20.86	0.12190

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	3.00	16.84	16.77	19.82	30.00
2417MHz_TnomVnom	Pass	3.00	18.20	18.12	21.17	30.00
2437MHz_TnomVnom	Pass	3.00	18.29	18.14	21.23	30.00
2462MHz_TnomVnom	Pass	3.00	19.69	19.65	22.68	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	3.00	16.07	16.07	19.08	30.00
2417MHz_TnomVnom	Pass	3.00	19.59	19.55	22.58	30.00
2437MHz_TnomVnom	Pass	3.00	19.69	19.64	22.68	30.00
2457MHz_TnomVnom	Pass	3.00	19.67	19.60	22.65	30.00
2462MHz_TnomVnom	Pass	3.00	17.22	17.22	20.23	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	3.00	16.02	16.01	19.03	30.00
2417MHz_TnomVnom	Pass	3.00	19.24	19.52	22.39	30.00
2422MHz_TnomVnom	Pass	3.00	19.70	20.01	22.87	30.00
2437MHz_TnomVnom	Pass	3.00	19.69	20.09	22.90	30.00
2457MHz_TnomVnom	Pass	3.00	19.62	19.96	22.80	30.00
2462MHz_TnomVnom	Pass	3.00	15.16	15.30	18.24	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	3.00	11.49	11.53	14.52	30.00
2427MHz_TnomVnom	Pass	3.00	13.70	13.97	16.85	30.00
2432MHz_TnomVnom	Pass	3.00	15.26	15.44	18.36	30.00
2437MHz_TnomVnom	Pass	3.00	17.73	17.96	20.86	30.00
2442MHz_TnomVnom	Pass	3.00	16.28	16.45	19.38	30.00
2447MHz_TnomVnom	Pass	3.00	14.75	14.93	17.85	30.00
2452MHz_TnomVnom	Pass	3.00	13.01	12.80	15.92	30.00

DG = Directional Gain; Port X = Port X output power
 Note : Conducted average output power is for reference only



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-5.16
802.11g_Nss1,(6Mbps)_2TX	-5.12
802.11n HT20_Nss1,(MCS0)_2TX	-2.69
802.11n HT40_Nss1,(MCS0)_2TX	-8.35

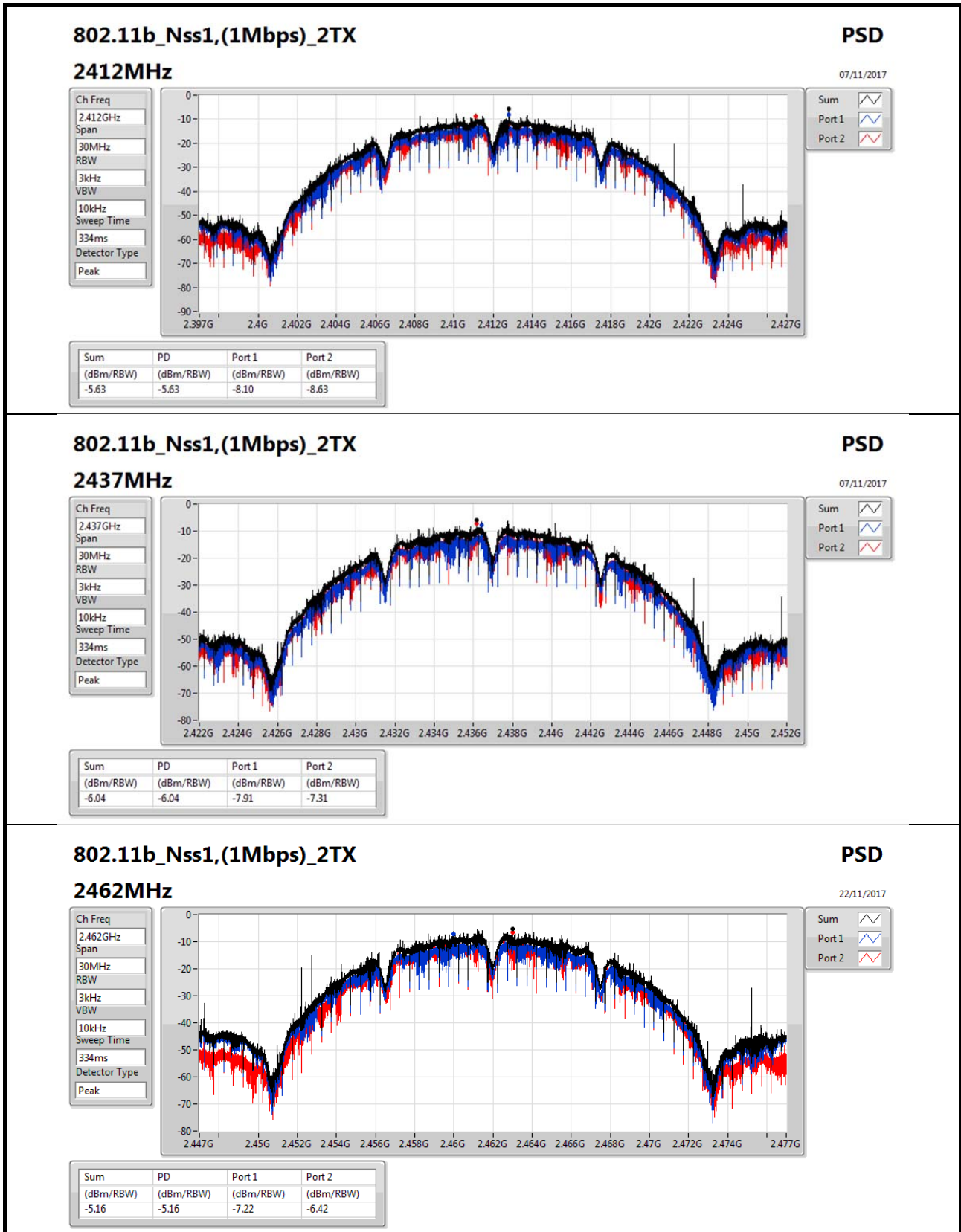
RBW=3kHz.

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	6.01	-8.10	-8.63	-5.63	7.99
2437MHz	Pass	6.01	-7.91	-7.31	-6.04	7.99
2462MHz	Pass	6.01	-7.22	-6.42	-5.16	7.99
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.01	-10.83	-11.97	-8.84	7.99
2437MHz	Pass	6.01	-7.05	-7.00	-5.12	7.99
2462MHz	Pass	6.01	-9.88	-9.33	-7.79	7.99
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.01	-9.67	-10.92	-7.53	7.99
2437MHz	Pass	6.01	-6.95	-3.27	-2.69	7.99
2462MHz	Pass	6.01	-11.86	-11.57	-9.45	7.99
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.01	-17.62	-17.09	-15.15	7.99
2437MHz	Pass	6.01	-11.00	-10.66	-8.35	7.99
2452MHz	Pass	6.01	-16.71	-16.43	-14.38	7.99

DG = Directional Gain; RBW=3kHz;

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

2462MHz

PSD

22/11/2017

Ch Freq

2.462GHz

Span

30MHz

RBW

3kHz

VBW

10kHz

Sweep Time

334ms

Detector Type

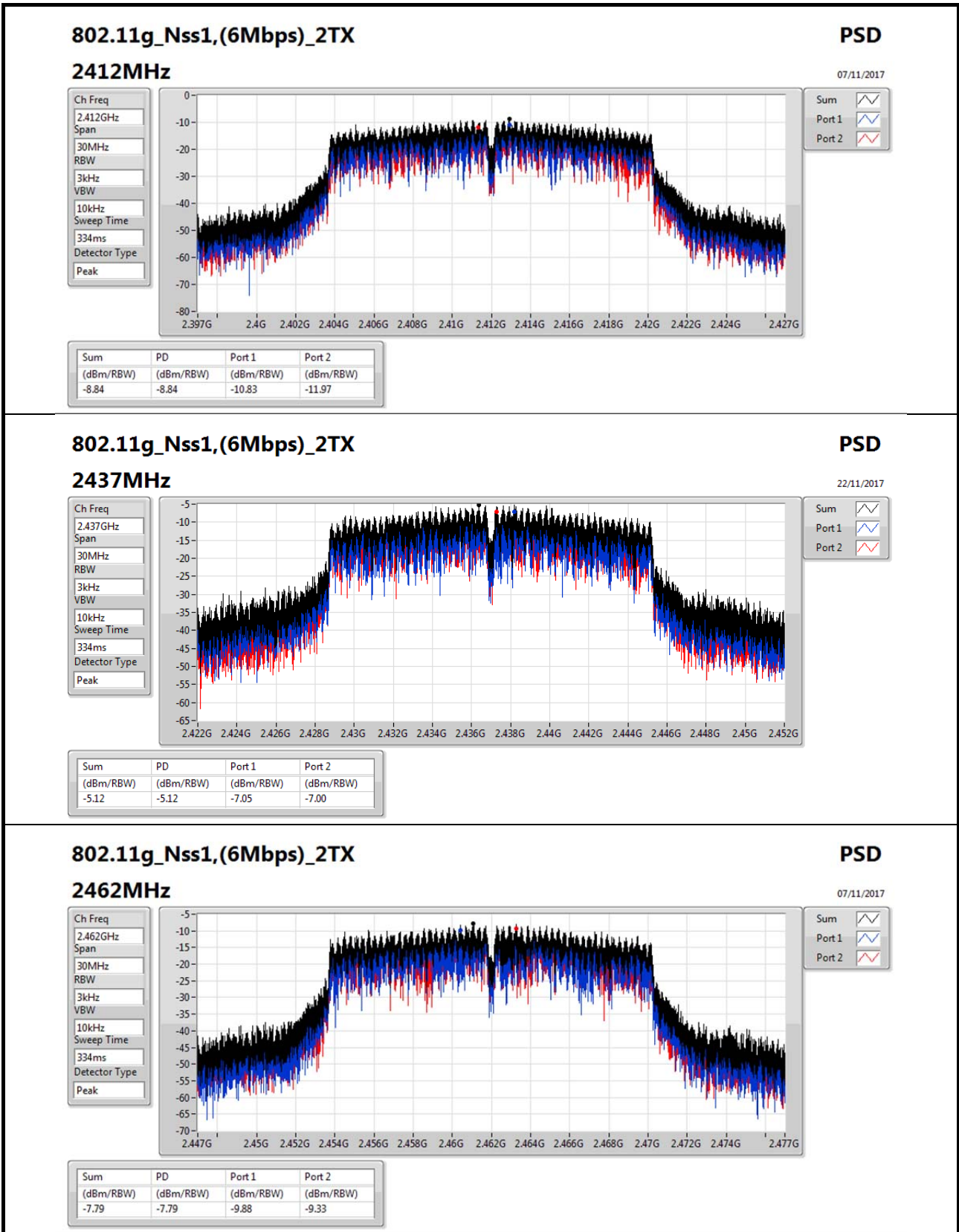
Peak

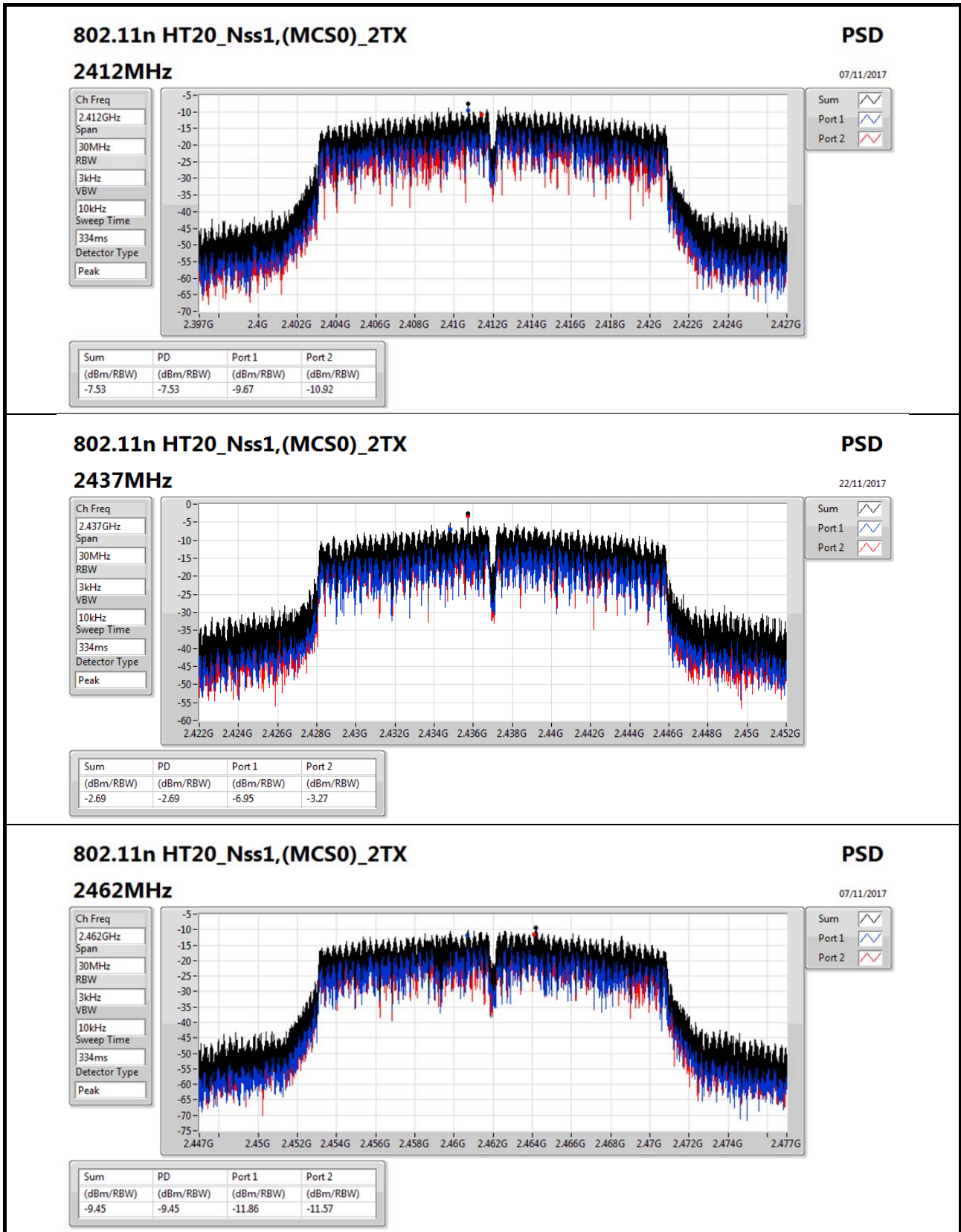
Sum

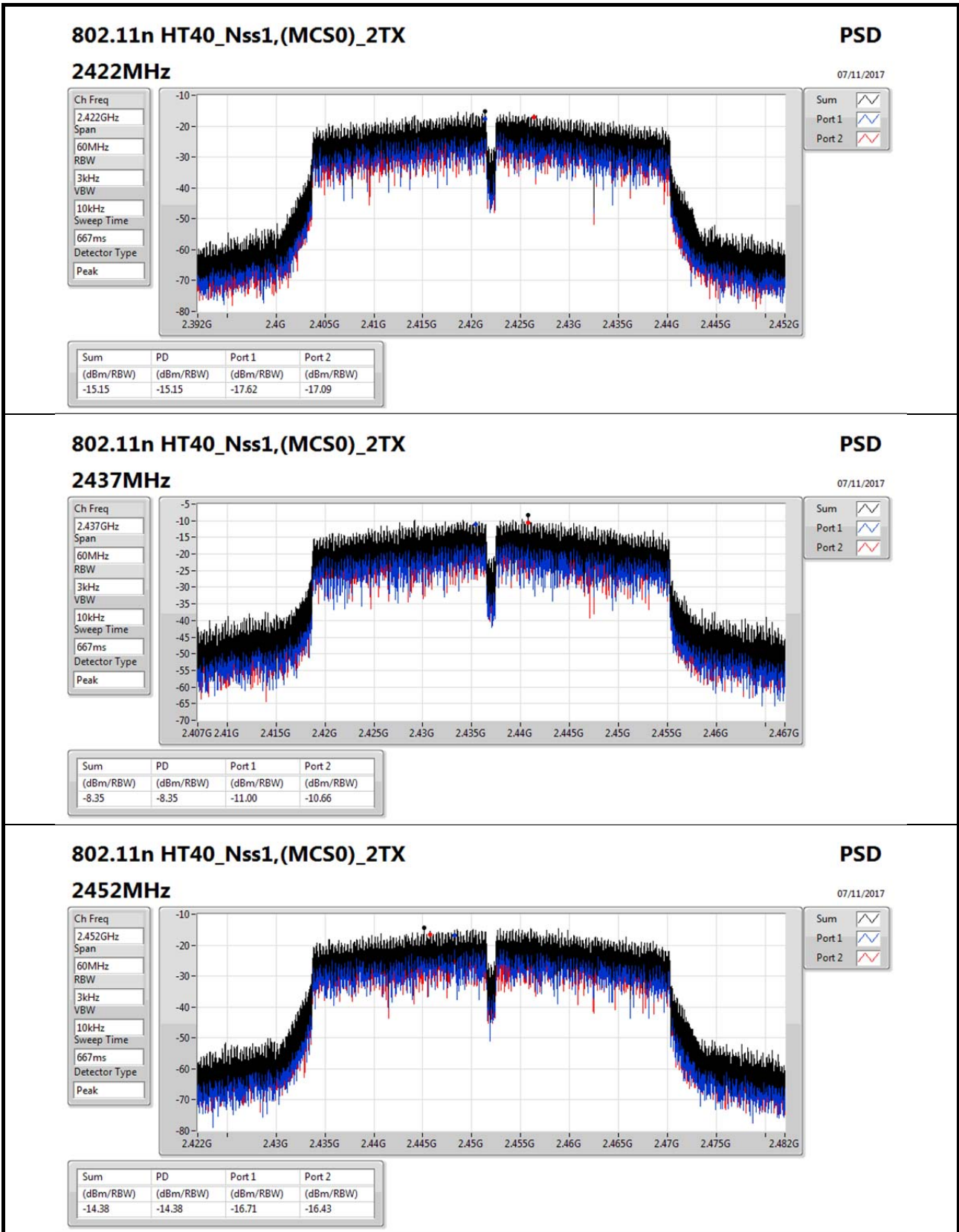
Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.16	-5.16	-7.22	-6.42







802.11n HT40_Nss1,(MCS0)_2TX

2452MHz

PSD

07/11/2017

Ch Freq
2.452GHz

Span
60MHz

RBW
3kHz

VBW
10kHz

Sweep Time
667ms

Detector Type
Peak

Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.38	-14.38	-16.71	-16.43

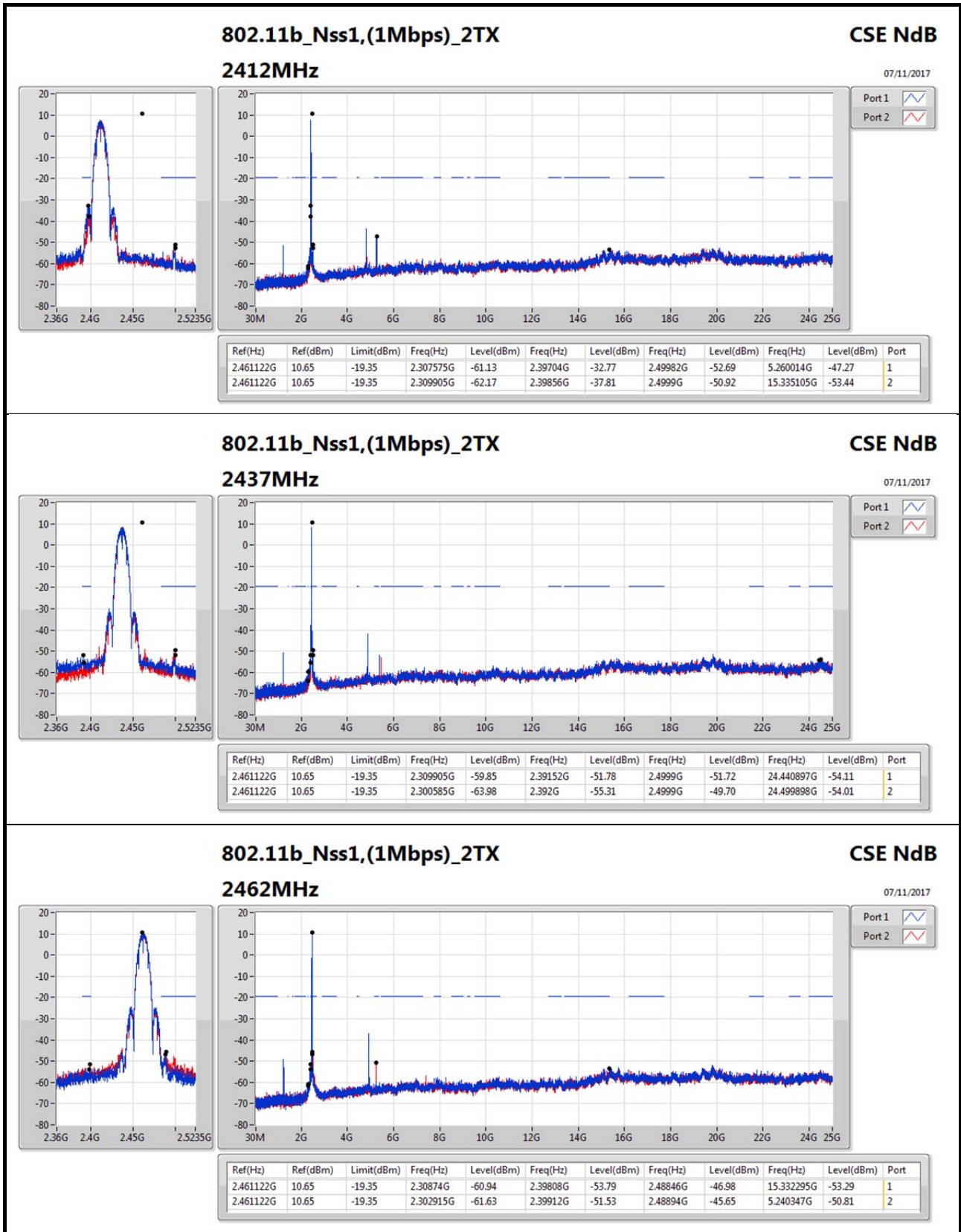


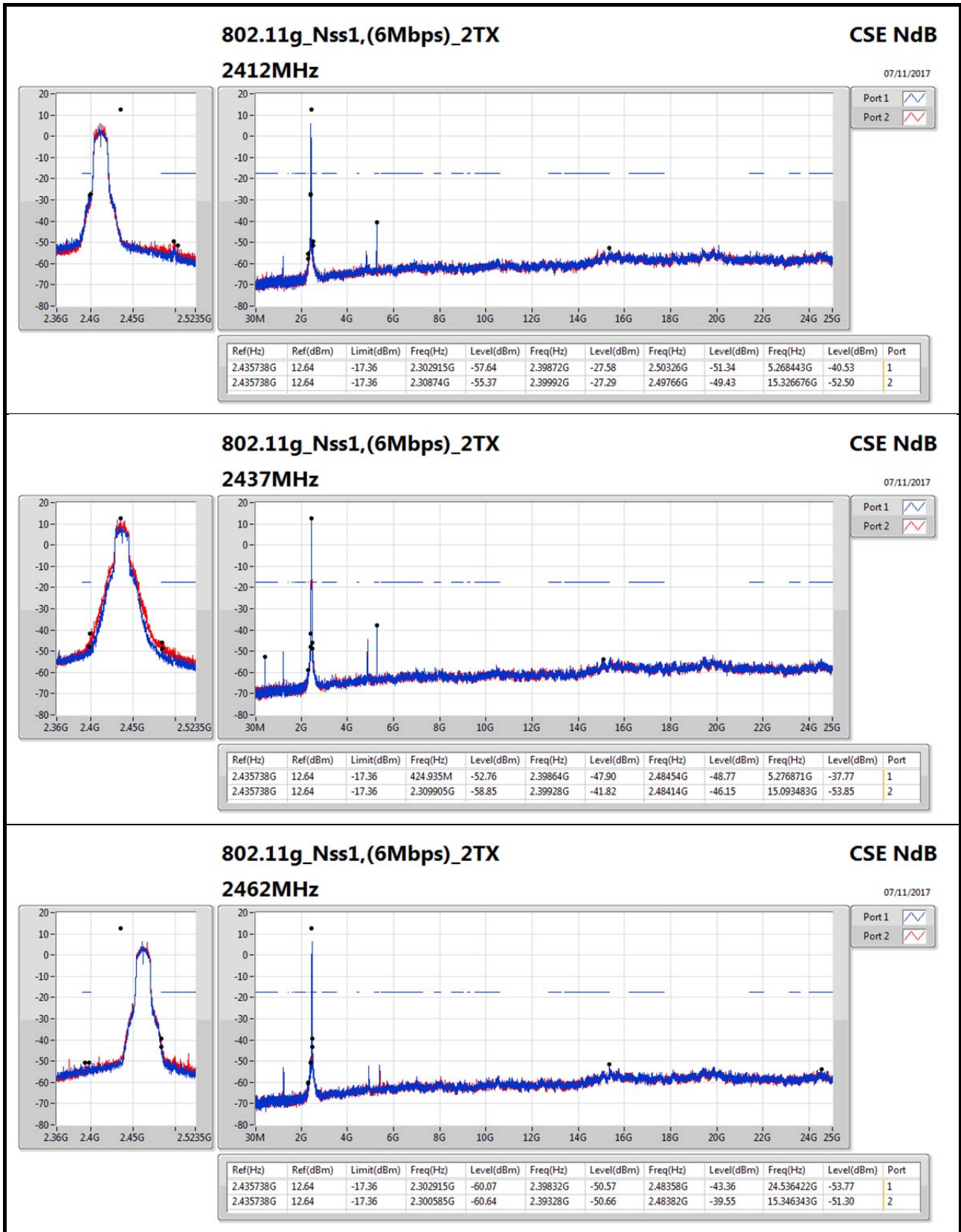
Summary

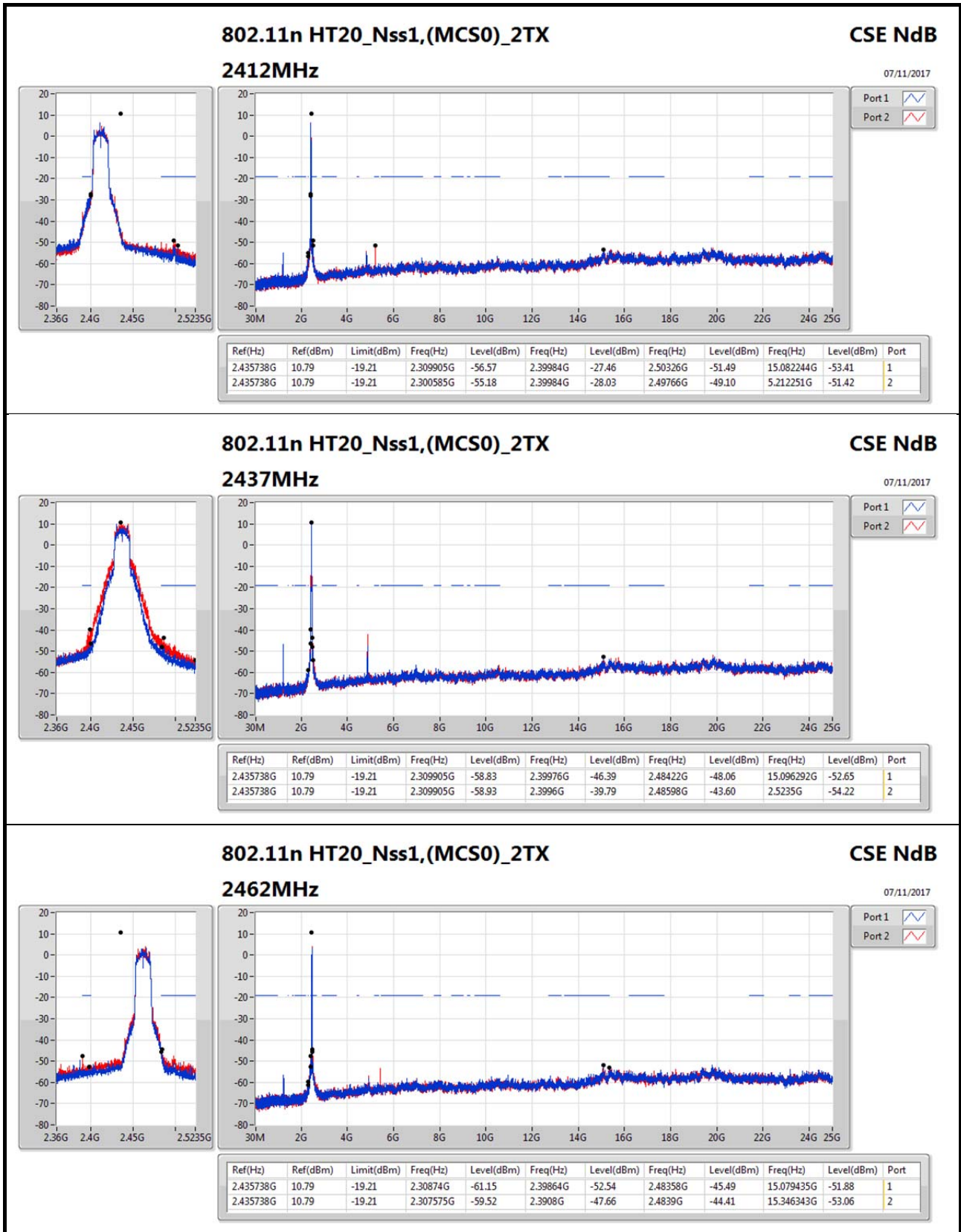
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.461122G	10.65	-19.35	2.307575G	-61.13	2.39704G	-32.77	2.49982G	-52.69	5.260014G	-47.27	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.435738G	12.64	-17.36	2.30874G	-55.37	2.39992G	-27.29	2.49766G	-49.43	15.326676G	-52.50	2
802.11n_HT20_Nss1,(MCS0)_2TX	Pass	2.435738G	10.79	-19.21	2.309905G	-56.57	2.39984G	-27.46	2.50326G	-51.49	15.082244G	-53.41	1
802.11n_HT40_Nss1,(MCS0)_2TX	Pass	2.434402G	5.43	-24.57	2.30168G	-58.83	2.39968G	-32.04	2.5019G	-46.48	24.441892G	-53.19	1

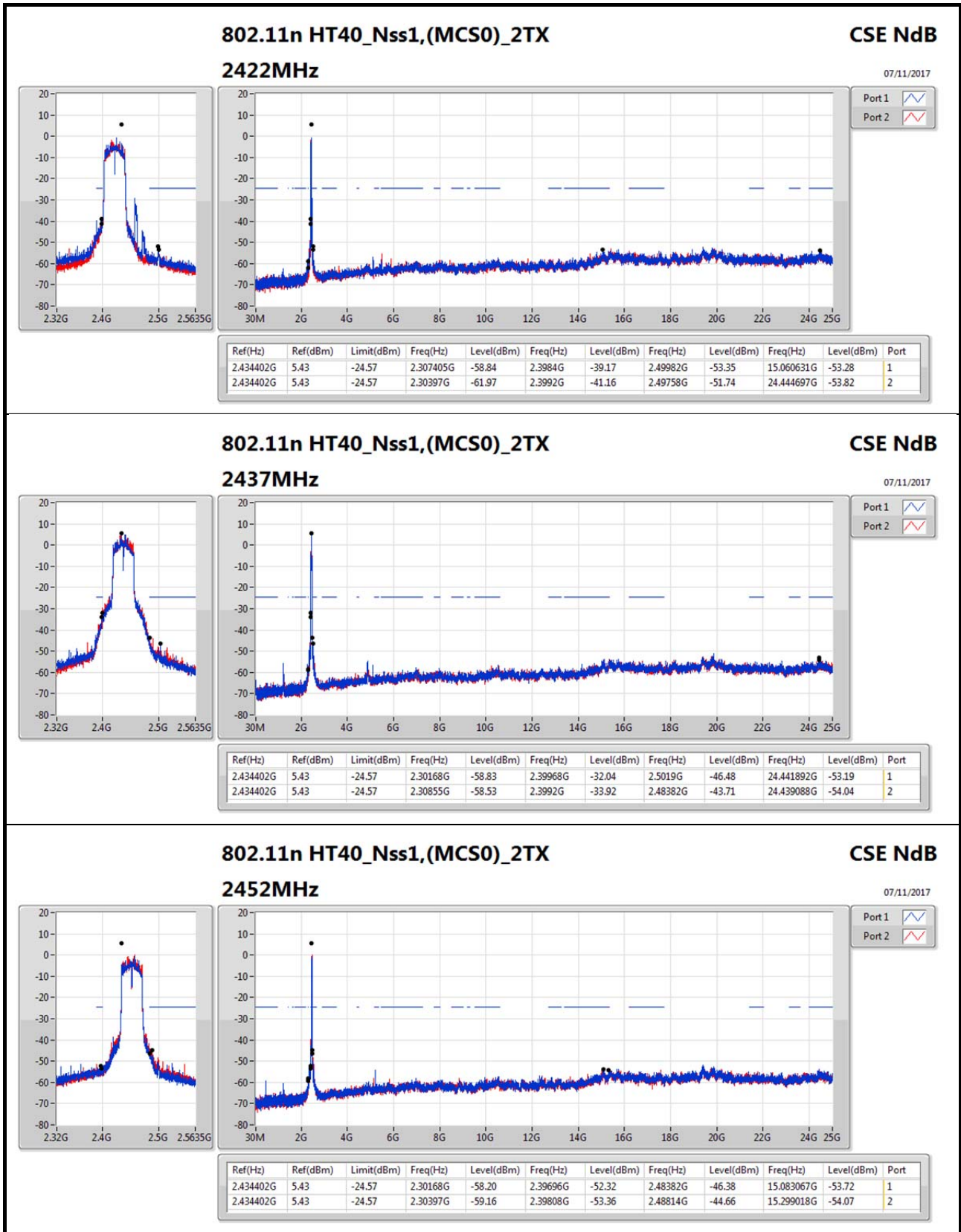
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.461122G	10.65	-19.35	2.307575G	-61.13	2.39704G	-32.77	2.49982G	-52.69	5.260014G	-47.27	1
2412MHz	Pass	2.461122G	10.65	-19.35	2.309905G	-62.17	2.39856G	-37.81	2.4999G	-50.92	15.335105G	-53.44	2
2437MHz	Pass	2.461122G	10.65	-19.35	2.309905G	-59.85	2.39152G	-51.78	2.4999G	-51.72	24.440897G	-54.11	1
2437MHz	Pass	2.461122G	10.65	-19.35	2.300585G	-63.98	2.392G	-55.31	2.4999G	-49.70	24.499898G	-54.01	2
2462MHz	Pass	2.461122G	10.65	-19.35	2.30874G	-60.94	2.39808G	-53.79	2.48846G	-46.98	15.332295G	-53.29	1
2462MHz	Pass	2.461122G	10.65	-19.35	2.302915G	-61.63	2.39912G	-51.53	2.48894G	-45.65	5.240347G	-50.81	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.435738G	12.64	-17.36	2.302915G	-57.64	2.39872G	-27.58	2.50326G	-51.34	5.268443G	-40.53	1
2412MHz	Pass	2.435738G	12.64	-17.36	2.30874G	-55.37	2.39992G	-27.29	2.49766G	-49.43	15.326676G	-52.50	2
2437MHz	Pass	2.435738G	12.64	-17.36	424.935M	-52.76	2.39864G	-47.90	2.48454G	-48.77	5.276871G	-37.77	1
2437MHz	Pass	2.435738G	12.64	-17.36	2.309905G	-58.85	2.39928G	-41.82	2.48414G	-46.15	15.093483G	-53.85	2
2462MHz	Pass	2.435738G	12.64	-17.36	2.302915G	-60.07	2.39832G	-50.57	2.48358G	-43.36	24.536422G	-53.77	1
2462MHz	Pass	2.435738G	12.64	-17.36	2.300585G	-60.64	2.39328G	-50.66	2.48382G	-39.55	15.346343G	-51.30	2
802.11n_HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.435738G	10.79	-19.21	2.309905G	-56.57	2.39984G	-27.46	2.50326G	-51.49	15.082244G	-53.41	1
2412MHz	Pass	2.435738G	10.79	-19.21	2.300585G	-55.18	2.39984G	-28.03	2.49766G	-49.10	5.212251G	-51.42	2
2437MHz	Pass	2.435738G	10.79	-19.21	2.309905G	-58.83	2.39976G	-46.39	2.48422G	-48.06	15.096292G	-52.65	1
2437MHz	Pass	2.435738G	10.79	-19.21	2.309905G	-58.93	2.3996G	-39.79	2.48598G	-43.60	2.5235G	-54.22	2
2462MHz	Pass	2.435738G	10.79	-19.21	2.30874G	-61.15	2.39864G	-52.54	2.48358G	-45.49	15.079435G	-51.88	1
2462MHz	Pass	2.435738G	10.79	-19.21	2.307575G	-59.52	2.3908G	-47.66	2.4839G	-44.41	15.346343G	-53.06	2
802.11n_HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.434402G	5.43	-24.57	2.307405G	-58.84	2.3984G	-39.17	2.49982G	-53.35	15.060631G	-53.28	1
2422MHz	Pass	2.434402G	5.43	-24.57	2.30397G	-61.97	2.3992G	-41.16	2.49758G	-51.74	24.444697G	-53.82	2
2437MHz	Pass	2.434402G	5.43	-24.57	2.30168G	-58.83	2.39968G	-32.04	2.5019G	-46.48	24.441892G	-53.19	1
2437MHz	Pass	2.434402G	5.43	-24.57	2.30855G	-58.53	2.3992G	-33.92	2.48382G	-43.71	24.439088G	-54.04	2
2452MHz	Pass	2.434402G	5.43	-24.57	2.30168G	-58.20	2.39696G	-52.32	2.48382G	-46.38	15.083067G	-53.72	1
2452MHz	Pass	2.434402G	5.43	-24.57	2.30397G	-59.16	2.39808G	-53.36	2.48814G	-44.66	15.299018G	-54.07	2











Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	PK	142.52M	38.37	43.50	-5.13	-9.77	3	Horizontal	0	2.00	-

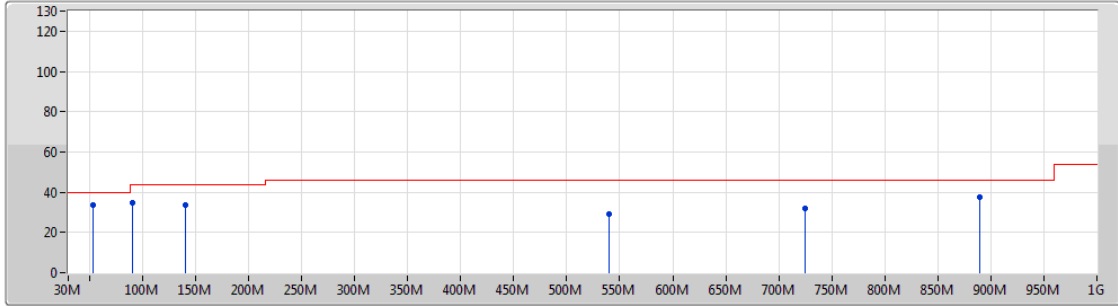


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	53.28M	33.68	40.00	-6.32	-14.61	3	Vertical	360	1.00	-
2437MHz	Pass	PK	90.14M	34.62	43.50	-8.88	-12.37	3	Vertical	360	1.00	-
2437MHz	Pass	PK	140.58M	33.38	43.50	-10.12	-9.64	3	Vertical	360	1.00	-
2437MHz	Pass	PK	540.22M	29.03	46.00	-16.97	-1.27	3	Vertical	360	1.00	-
2437MHz	Pass	PK	724.52M	31.78	46.00	-14.22	0.50	3	Vertical	360	1.00	-
2437MHz	Pass	PK	889.42M	37.78	46.00	-8.22	2.50	3	Vertical	360	1.00	-
2437MHz	Pass	PK	90.14M	31.08	43.50	-12.42	-12.37	3	Horizontal	0	2.00	-
2437MHz	Pass	PK	142.52M	38.37	43.50	-5.13	-9.77	3	Horizontal	0	2.00	-
2437MHz	Pass	PK	225.94M	28.68	46.00	-17.32	-9.81	3	Horizontal	0	2.00	-
2437MHz	Pass	PK	286.08M	27.44	46.00	-18.56	-6.04	3	Horizontal	0	2.00	-
2437MHz	Pass	PK	598.42M	30.90	46.00	-15.10	-0.92	3	Horizontal	0	2.00	-
2437MHz	Pass	PK	893.3M	34.90	46.00	-11.10	2.53	3	Horizontal	0	2.00	-

802.11n HT40_Nss1,(MCS0)_2TX
2437MHz_Switching Power Supply

06/11/2018



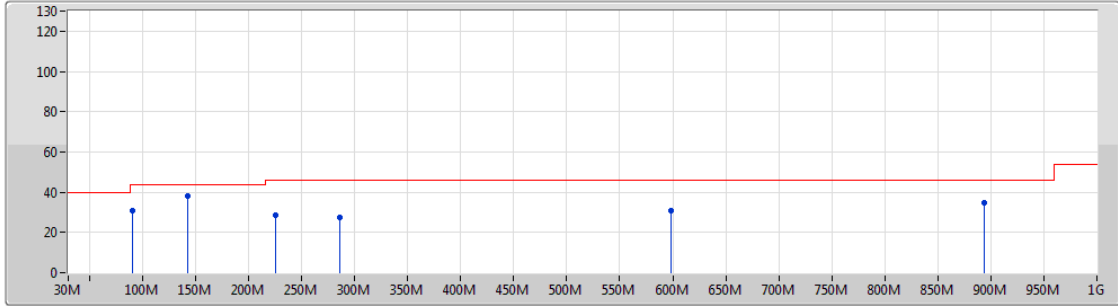
Lim.PK
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 AV

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	53.28M	33.68	40.00	-6.32	-14.61	3	Vertical	360	1.00	-
PK	90.14M	34.62	43.50	-8.88	-12.37	3	Vertical	360	1.00	-
PK	140.58M	33.38	43.50	-10.12	-9.64	3	Vertical	360	1.00	-
PK	540.22M	29.03	46.00	-16.97	-1.27	3	Vertical	360	1.00	-
PK	724.52M	31.78	46.00	-14.22	0.50	3	Vertical	360	1.00	-
PK	889.42M	37.78	46.00	-8.22	2.50	3	Vertical	360	1.00	-



802.11n HT40_Nss1,(MCS0)_2TX
2437MHz_Switching Power Supply

06/11/2018



Lim.PK
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 AV

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	90.14M	31.08	43.50	-12.42	-12.37	3	Horizontal	0	2.00	-
PK	142.52M	38.37	43.50	-5.13	-9.77	3	Horizontal	0	2.00	-
PK	225.94M	28.68	46.00	-17.32	-9.81	3	Horizontal	0	2.00	-
PK	286.08M	27.44	46.00	-18.56	-6.04	3	Horizontal	0	2.00	-
PK	598.42M	30.90	46.00	-15.10	-0.92	3	Horizontal	0	2.00	-
PK	893.3M	34.90	46.00	-11.10	2.53	3	Horizontal	0	2.00	-



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	2.4868G	50.94	54.00	-3.06	30.71	3	Vertical	266	1.98	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.483502G	52.18	54.00	-1.82	30.69	3	Vertical	256	1.99	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.4838G	53.88	54.00	-0.12	30.69	3	Vertical	259	2.59	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	AV	2.4842G	53.65	54.00	-0.35	30.69	3	Vertical	263	2.39	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3838G	45.10	54.00	-8.90	30.36	3	Vertical	97	1.00	-
2412MHz	Pass	AV	2.4114G	106.18	Inf	-Inf	30.45	3	Vertical	97	1.00	-
2412MHz	Pass	PK	2.3852G	57.19	74.00	-16.81	30.36	3	Vertical	97	1.00	-
2412MHz	Pass	PK	2.413G	109.99	Inf	-Inf	30.45	3	Vertical	97	1.00	-
2412MHz	Pass	AV	2.384G	44.20	54.00	-9.80	30.36	3	Horizontal	194	1.61	-
2412MHz	Pass	AV	2.4114G	104.55	Inf	-Inf	30.45	3	Horizontal	194	1.61	-
2412MHz	Pass	PK	2.3676G	55.84	74.00	-18.16	30.30	3	Horizontal	194	1.61	-
2412MHz	Pass	PK	2.413G	108.34	Inf	-Inf	30.45	3	Horizontal	194	1.61	-
2412MHz	Pass	AV	4.82418G	45.22	54.00	-8.78	5.83	3	Vertical	38	2.87	-
2412MHz	Pass	PK	4.8243G	50.02	74.00	-23.98	5.83	3	Vertical	38	2.87	-
2412MHz	Pass	AV	4.82418G	40.57	54.00	-13.43	5.83	3	Horizontal	82	2.27	-
2412MHz	Pass	PK	4.8243G	47.99	74.00	-26.01	5.83	3	Horizontal	82	2.27	-
2417MHz	Pass	AV	2.3794G	44.83	54.00	-9.17	30.34	3	Vertical	254	1.99	-
2417MHz	Pass	AV	2.4164G	105.49	Inf	-Inf	30.47	3	Vertical	254	1.99	-
2417MHz	Pass	PK	2.3882G	56.15	74.00	-17.85	30.37	3	Vertical	254	1.99	-
2417MHz	Pass	PK	2.418G	109.39	Inf	-Inf	30.47	3	Vertical	254	1.99	-
2417MHz	Pass	AV	2.3798G	44.79	54.00	-9.21	30.34	3	Horizontal	193	1.61	-
2417MHz	Pass	AV	2.4164G	106.07	Inf	-Inf	30.47	3	Horizontal	193	1.61	-
2417MHz	Pass	PK	2.3894G	56.28	74.00	-17.72	30.37	3	Horizontal	193	1.61	-
2417MHz	Pass	PK	2.4162G	109.90	Inf	-Inf	30.47	3	Horizontal	193	1.61	-
2437MHz	Pass	AV	2.3898G	44.10	54.00	-9.90	30.38	3	Vertical	267	1.96	-
2437MHz	Pass	AV	2.4362G	105.66	Inf	-Inf	30.53	3	Vertical	267	1.96	-
2437MHz	Pass	AV	2.4998G	45.21	54.00	-8.79	30.75	3	Vertical	267	1.96	-
2437MHz	Pass	PK	2.381G	56.22	74.00	-17.78	30.34	3	Vertical	267	1.96	-
2437MHz	Pass	PK	2.4362G	109.48	Inf	-Inf	30.53	3	Vertical	267	1.96	-
2437MHz	Pass	PK	2.4978G	55.90	74.00	-18.10	30.74	3	Vertical	267	1.96	-
2437MHz	Pass	AV	2.3858G	44.08	54.00	-9.92	30.37	3	Horizontal	193	1.71	-
2437MHz	Pass	AV	2.4362G	105.34	Inf	-Inf	30.53	3	Horizontal	193	1.71	-
2437MHz	Pass	AV	2.4998G	44.75	54.00	-9.25	30.75	3	Horizontal	193	1.71	-
2437MHz	Pass	PK	2.3846G	55.58	74.00	-18.42	30.36	3	Horizontal	193	1.71	-
2437MHz	Pass	PK	2.4362G	109.13	Inf	-Inf	30.53	3	Horizontal	193	1.71	-
2437MHz	Pass	PK	2.4878G	56.05	74.00	-17.95	30.71	3	Horizontal	193	1.71	-
2437MHz	Pass	AV	4.87412G	43.17	54.00	-10.83	5.94	3	Vertical	130	1.84	-
2437MHz	Pass	PK	4.87406G	48.86	74.00	-25.14	5.94	3	Vertical	130	1.84	-
2437MHz	Pass	AV	4.87412G	43.74	54.00	-10.26	5.94	3	Horizontal	97	2.85	-
2437MHz	Pass	PK	4.87424G	49.22	74.00	-24.78	5.94	3	Horizontal	97	2.85	-
2462MHz	Pass	AV	2.4612G	105.99	Inf	-Inf	30.62	3	Vertical	266	1.98	-
2462MHz	Pass	AV	2.4868G	50.94	54.00	-3.06	30.71	3	Vertical	266	1.98	-
2462MHz	Pass	PK	2.4612G	110.73	Inf	-Inf	30.62	3	Vertical	266	1.98	-
2462MHz	Pass	PK	2.4882G	59.80	74.00	-14.20	30.71	3	Vertical	266	1.98	-
2462MHz	Pass	AV	2.4614G	106.49	Inf	-Inf	30.62	3	Horizontal	189	1.52	-
2462MHz	Pass	AV	2.4868G	49.91	54.00	-4.09	30.71	3	Horizontal	189	1.52	-
2462MHz	Pass	PK	2.463G	111.16	Inf	-Inf	30.62	3	Horizontal	189	1.52	-
2462MHz	Pass	PK	2.4868G	59.83	74.00	-14.17	30.71	3	Horizontal	189	1.52	-
2462MHz	Pass	AV	4.92412G	44.04	54.00	-9.96	6.04	3	Vertical	144	1.69	-
2462MHz	Pass	PK	4.92424G	49.59	74.00	-24.41	6.04	3	Vertical	144	1.69	-
2462MHz	Pass	AV	4.92414G	44.06	54.00	-9.94	6.04	3	Horizontal	84	2.99	-



RSE TX above 1GHz Result

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	4.92407G	49.71	74.00	-24.29	6.04	3	Horizontal	84	2.99	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.389998G	49.45	54.00	-4.55	30.38	3	Vertical	264	1.99	-
2412MHz	Pass	AV	2.411G	101.63	Inf	-Inf	30.45	3	Vertical	264	1.99	-
2412MHz	Pass	PK	2.389998G	65.19	74.00	-8.81	30.38	3	Vertical	264	1.99	-
2412MHz	Pass	PK	2.4112G	110.88	Inf	-Inf	30.45	3	Vertical	264	1.99	-
2412MHz	Pass	AV	2.389998G	47.36	54.00	-6.64	30.38	3	Horizontal	210	1.47	-
2412MHz	Pass	AV	2.4126G	99.11	Inf	-Inf	30.45	3	Horizontal	210	1.47	-
2412MHz	Pass	PK	2.389998G	60.61	74.00	-13.39	30.38	3	Horizontal	210	1.47	-
2412MHz	Pass	PK	2.4126G	109.02	Inf	-Inf	30.45	3	Horizontal	210	1.47	-
2412MHz	Pass	AV	4.82214G	33.70	54.00	-20.30	5.83	3	Vertical	30	2.75	-
2412MHz	Pass	PK	4.82592G	46.67	74.00	-27.33	5.83	3	Vertical	30	2.75	-
2412MHz	Pass	AV	4.81836G	31.58	54.00	-22.42	5.82	3	Horizontal	145	1.56	-
2412MHz	Pass	PK	4.82724G	44.69	74.00	-29.31	5.84	3	Horizontal	145	1.56	-
2417MHz	Pass	AV	2.389998G	50.44	54.00	-3.56	30.38	3	Vertical	266	1.98	-
2417MHz	Pass	AV	2.4164G	104.83	Inf	-Inf	30.47	3	Vertical	266	1.98	-
2417MHz	Pass	PK	2.389998G	66.92	74.00	-7.08	30.38	3	Vertical	266	1.98	-
2417MHz	Pass	PK	2.4164G	114.20	Inf	-Inf	30.47	3	Vertical	266	1.98	-
2417MHz	Pass	AV	2.389998G	52.03	54.00	-1.97	30.38	3	Horizontal	190	1.80	-
2417MHz	Pass	AV	2.4166G	103.37	Inf	-Inf	30.47	3	Horizontal	190	1.80	-
2417MHz	Pass	PK	2.389998G	69.43	74.00	-4.57	30.38	3	Horizontal	190	1.80	-
2417MHz	Pass	PK	2.4162G	114.11	Inf	-Inf	30.47	3	Horizontal	190	1.80	-
2437MHz	Pass	AV	2.3898G	44.98	54.00	-9.02	30.38	3	Vertical	264	1.73	-
2437MHz	Pass	AV	2.4362G	103.24	Inf	-Inf	30.53	3	Vertical	264	1.73	-
2437MHz	Pass	AV	2.4998G	45.70	54.00	-8.30	30.75	3	Vertical	264	1.73	-
2437MHz	Pass	PK	2.3894G	57.02	74.00	-16.98	30.37	3	Vertical	264	1.73	-
2437MHz	Pass	PK	2.4362G	113.39	Inf	-Inf	30.53	3	Vertical	264	1.73	-
2437MHz	Pass	PK	2.4962G	58.15	74.00	-15.85	30.74	3	Vertical	264	1.73	-
2437MHz	Pass	AV	2.3898G	45.96	54.00	-8.04	30.38	3	Horizontal	195	1.59	-
2437MHz	Pass	AV	2.4374G	101.43	Inf	-Inf	30.54	3	Horizontal	195	1.59	-
2437MHz	Pass	AV	2.4998G	45.39	54.00	-8.61	30.75	3	Horizontal	195	1.59	-
2437MHz	Pass	PK	2.3806G	57.58	74.00	-16.42	30.34	3	Horizontal	195	1.59	-
2437MHz	Pass	PK	2.4374G	111.72	Inf	-Inf	30.54	3	Horizontal	195	1.59	-
2437MHz	Pass	PK	2.483502G	57.08	74.00	-16.92	30.69	3	Horizontal	195	1.59	-
2437MHz	Pass	AV	4.87202G	33.71	54.00	-20.29	5.93	3	Vertical	210	1.59	-
2437MHz	Pass	PK	4.87616G	47.15	74.00	-26.85	5.94	3	Vertical	210	1.59	-
2437MHz	Pass	AV	4.88756G	42.01	54.00	-11.99	5.96	3	Horizontal	134	1.55	-
2437MHz	Pass	PK	4.88786G	48.87	74.00	-25.13	5.96	3	Horizontal	134	1.55	-
2457MHz	Pass	AV	2.4564G	102.80	Inf	-Inf	30.60	3	Vertical	251	2.22	-
2457MHz	Pass	AV	2.483502G	50.55	54.00	-3.45	30.69	3	Vertical	251	2.22	-
2457MHz	Pass	PK	2.4564G	113.22	Inf	-Inf	30.60	3	Vertical	251	2.22	-
2457MHz	Pass	PK	2.483502G	66.09	74.00	-7.91	30.69	3	Vertical	251	2.22	-
2457MHz	Pass	AV	2.4566G	102.26	Inf	-Inf	30.60	3	Horizontal	188	1.55	-
2457MHz	Pass	AV	2.483502G	48.97	54.00	-5.03	30.69	3	Horizontal	188	1.55	-
2457MHz	Pass	PK	2.4564G	113.08	Inf	-Inf	30.60	3	Horizontal	188	1.55	-
2457MHz	Pass	PK	2.483502G	65.61	74.00	-8.39	30.69	3	Horizontal	188	1.55	-
2462MHz	Pass	AV	2.4612G	101.06	Inf	-Inf	30.62	3	Vertical	256	1.99	-
2462MHz	Pass	AV	2.483502G	52.18	54.00	-1.82	30.69	3	Vertical	256	1.99	-
2462MHz	Pass	PK	2.4612G	111.11	Inf	-Inf	30.62	3	Vertical	256	1.99	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	2.484G	68.04	74.00	-5.96	30.69	3	Vertical	256	1.99	-
2462MHz	Pass	AV	2.4616G	100.34	Inf	-Inf	30.62	3	Horizontal	188	1.79	-
2462MHz	Pass	AV	2.483502G	49.84	54.00	-4.16	30.69	3	Horizontal	188	1.79	-
2462MHz	Pass	PK	2.4614G	110.57	Inf	-Inf	30.62	3	Horizontal	188	1.79	-
2462MHz	Pass	PK	2.483502G	64.21	74.00	-9.79	30.69	3	Horizontal	188	1.79	-
2462MHz	Pass	AV	4.92598G	32.80	54.00	-21.20	6.04	3	Vertical	324	1.74	-
2462MHz	Pass	PK	4.92562G	46.48	74.00	-27.52	6.04	3	Vertical	324	1.74	-
2462MHz	Pass	AV	4.92694G	32.09	54.00	-21.91	6.05	3	Horizontal	115	1.64	-
2462MHz	Pass	PK	4.93522G	46.81	74.00	-27.19	6.06	3	Horizontal	115	1.64	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3896G	51.95	54.00	-2.05	30.38	3	Vertical	266	2.52	-
2412MHz	Pass	AV	2.4118G	101.67	Inf	-Inf	30.45	3	Vertical	266	2.52	-
2412MHz	Pass	PK	2.3894G	69.07	74.00	-4.93	30.37	3	Vertical	266	2.52	-
2412MHz	Pass	PK	2.4144G	111.60	Inf	-Inf	30.46	3	Vertical	266	2.52	-
2412MHz	Pass	AV	2.3892G	51.52	54.00	-2.48	30.37	3	Horizontal	192	1.60	-
2412MHz	Pass	AV	2.4118G	99.71	Inf	-Inf	30.45	3	Horizontal	192	1.60	-
2412MHz	Pass	PK	2.389G	68.80	74.00	-5.20	30.37	3	Horizontal	192	1.60	-
2412MHz	Pass	PK	2.4096G	109.75	Inf	-Inf	30.44	3	Horizontal	192	1.60	-
2412MHz	Pass	AV	4.82274G	33.90	54.00	-20.10	5.83	3	Vertical	75	2.13	-
2412MHz	Pass	PK	4.82316G	47.40	74.00	-26.60	5.83	3	Vertical	75	2.13	-
2412MHz	Pass	AV	4.8183G	31.93	54.00	-22.07	5.82	3	Horizontal	164	2.08	-
2412MHz	Pass	PK	4.82442G	44.77	74.00	-29.23	5.83	3	Horizontal	164	2.08	-
2417MHz	Pass	AV	2.3888G	50.77	54.00	-3.23	30.37	3	Vertical	252	2.52	-
2417MHz	Pass	AV	2.4166G	103.30	Inf	-Inf	30.47	3	Vertical	252	2.52	-
2417MHz	Pass	PK	2.3894G	71.64	74.00	-2.36	30.37	3	Vertical	252	2.52	-
2417MHz	Pass	PK	2.416G	114.79	Inf	-Inf	30.46	3	Vertical	252	2.52	-
2417MHz	Pass	AV	2.389G	52.66	54.00	-1.34	30.37	3	Horizontal	190	1.80	-
2417MHz	Pass	AV	2.4166G	101.62	Inf	-Inf	30.47	3	Horizontal	190	1.80	-
2417MHz	Pass	PK	2.3894G	73.23	74.00	-0.77	30.37	3	Horizontal	190	1.80	-
2417MHz	Pass	PK	2.4196G	113.25	Inf	-Inf	30.48	3	Horizontal	190	1.80	-
2422MHz	Pass	AV	2.389G	49.10	54.00	-4.90	30.37	3	Vertical	257	2.43	-
2422MHz	Pass	AV	2.4216G	105.65	Inf	-Inf	30.48	3	Vertical	257	2.43	-
2422MHz	Pass	PK	2.3892G	65.51	74.00	-8.49	30.37	3	Vertical	257	2.43	-
2422MHz	Pass	PK	2.421G	115.62	Inf	-Inf	30.48	3	Vertical	257	2.43	-
2422MHz	Pass	AV	2.3898G	50.38	54.00	-3.62	30.38	3	Horizontal	186	1.80	-
2422MHz	Pass	AV	2.4196G	104.46	Inf	-Inf	30.48	3	Horizontal	186	1.80	-
2422MHz	Pass	PK	2.3894G	66.26	74.00	-7.74	30.37	3	Horizontal	186	1.80	-
2422MHz	Pass	PK	2.4244G	114.73	Inf	-Inf	30.49	3	Horizontal	186	1.80	-
2437MHz	Pass	AV	2.3898G	45.61	54.00	-8.39	30.38	3	Vertical	251	2.38	-
2437MHz	Pass	AV	2.4366G	103.73	Inf	-Inf	30.53	3	Vertical	251	2.38	-
2437MHz	Pass	AV	2.4842G	46.30	54.00	-7.70	30.69	3	Vertical	251	2.38	-
2437MHz	Pass	PK	2.3898G	57.40	74.00	-16.60	30.38	3	Vertical	251	2.38	-
2437MHz	Pass	PK	2.4362G	113.20	Inf	-Inf	30.53	3	Vertical	251	2.38	-
2437MHz	Pass	PK	2.4842G	60.07	74.00	-13.93	30.69	3	Vertical	251	2.38	-
2437MHz	Pass	AV	2.3898G	46.72	54.00	-7.28	30.38	3	Horizontal	194	1.72	-
2437MHz	Pass	AV	2.4346G	102.97	Inf	-Inf	30.53	3	Horizontal	194	1.72	-
2437MHz	Pass	AV	2.4998G	45.75	54.00	-8.25	30.75	3	Horizontal	194	1.72	-
2437MHz	Pass	PK	2.3894G	58.73	74.00	-15.27	30.37	3	Horizontal	194	1.72	-
2437MHz	Pass	PK	2.4346G	112.73	Inf	-Inf	30.53	3	Horizontal	194	1.72	-



RSE TX above 1GHz Result

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.4906G	57.11	74.00	-16.89	30.72	3	Horizontal	194	1.72	-
2437MHz	Pass	AV	4.87328G	34.08	54.00	-19.92	5.93	3	Vertical	34	1.46	-
2437MHz	Pass	PK	4.87766G	47.47	74.00	-26.53	5.94	3	Vertical	34	1.46	-
2437MHz	Pass	AV	4.8875G	42.30	54.00	-11.70	5.96	3	Horizontal	150	1.75	-
2437MHz	Pass	PK	4.88756G	48.08	74.00	-25.92	5.96	3	Horizontal	150	1.75	-
2457MHz	Pass	AV	2.4566G	104.62	Inf	-Inf	30.60	3	Vertical	259	2.59	-
2457MHz	Pass	AV	2.4838G	53.88	54.00	-0.12	30.69	3	Vertical	259	2.59	-
2457MHz	Pass	PK	2.456G	114.95	Inf	-Inf	30.60	3	Vertical	259	2.59	-
2457MHz	Pass	PK	2.4838G	71.94	74.00	-2.06	30.69	3	Vertical	259	2.59	-
2457MHz	Pass	AV	2.4546G	102.95	Inf	-Inf	30.60	3	Horizontal	187	1.78	-
2457MHz	Pass	AV	2.4842G	51.23	54.00	-2.77	30.69	3	Horizontal	187	1.78	-
2457MHz	Pass	PK	2.4546G	112.42	Inf	-Inf	30.60	3	Horizontal	187	1.78	-
2457MHz	Pass	PK	2.4842G	69.14	74.00	-4.86	30.69	3	Horizontal	187	1.78	-
2462MHz	Pass	AV	2.4638G	100.61	Inf	-Inf	30.63	3	Vertical	260	2.52	-
2462MHz	Pass	AV	2.4836G	53.07	54.00	-0.93	30.69	3	Vertical	260	2.52	-
2462MHz	Pass	PK	2.4612G	111.03	Inf	-Inf	30.62	3	Vertical	260	2.52	-
2462MHz	Pass	PK	2.4836G	68.58	74.00	-5.42	30.69	3	Vertical	260	2.52	-
2462MHz	Pass	AV	2.4618G	97.80	Inf	-Inf	30.62	3	Horizontal	188	1.49	-
2462MHz	Pass	AV	2.4842G	49.77	54.00	-4.23	30.69	3	Horizontal	188	1.49	-
2462MHz	Pass	PK	2.4596G	107.98	Inf	-Inf	30.61	3	Horizontal	188	1.49	-
2462MHz	Pass	PK	2.484G	64.83	74.00	-9.17	30.69	3	Horizontal	188	1.49	-
2462MHz	Pass	AV	4.88762G	33.71	54.00	-20.29	5.96	3	Vertical	130	1.54	-
2462MHz	Pass	PK	4.88804G	45.74	74.00	-28.26	5.96	3	Vertical	130	1.54	-
2462MHz	Pass	AV	4.8875G	42.26	54.00	-11.74	5.96	3	Horizontal	191	1.66	-
2462MHz	Pass	PK	4.88762G	48.38	74.00	-25.62	5.96	3	Horizontal	191	1.66	-
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.3892G	50.80	54.00	-3.20	30.37	3	Vertical	258	2.56	-
2422MHz	Pass	AV	2.4192G	94.92	Inf	-Inf	30.48	3	Vertical	258	2.56	-
2422MHz	Pass	AV	2.499998G	46.72	54.00	-7.28	30.75	3	Vertical	258	2.56	-
2422MHz	Pass	PK	2.389998G	64.23	74.00	-9.77	30.38	3	Vertical	258	2.56	-
2422MHz	Pass	PK	2.4188G	104.48	Inf	-Inf	30.47	3	Vertical	258	2.56	-
2422MHz	Pass	PK	2.4848G	57.10	74.00	-16.90	30.69	3	Vertical	258	2.56	-
2422MHz	Pass	AV	2.3896G	50.51	54.00	-3.49	30.38	3	Horizontal	193	1.78	-
2422MHz	Pass	AV	2.4168G	93.97	Inf	-Inf	30.47	3	Horizontal	193	1.78	-
2422MHz	Pass	AV	2.499998G	45.96	54.00	-8.04	30.75	3	Horizontal	193	1.78	-
2422MHz	Pass	PK	2.389998G	63.66	74.00	-10.34	30.38	3	Horizontal	193	1.78	-
2422MHz	Pass	PK	2.4168G	103.05	Inf	-Inf	30.47	3	Horizontal	193	1.78	-
2422MHz	Pass	PK	2.4872G	55.59	74.00	-18.41	30.71	3	Horizontal	193	1.78	-
2422MHz	Pass	AV	4.84448G	32.72	54.00	-21.28	5.87	3	Vertical	130	1.59	-
2422MHz	Pass	PK	4.83848G	45.26	74.00	-28.74	5.86	3	Vertical	130	1.59	-
2422MHz	Pass	AV	4.85528G	32.57	54.00	-21.43	5.90	3	Horizontal	188	2.21	-
2422MHz	Pass	PK	4.84868G	45.01	74.00	-28.99	5.88	3	Horizontal	188	2.21	-
2427MHz	Pass	AV	2.3894G	51.60	54.00	-2.40	30.37	3	Vertical	265	2.00	-
2427MHz	Pass	AV	2.4242G	97.10	Inf	-Inf	30.49	3	Vertical	265	2.00	-
2427MHz	Pass	AV	2.4942G	46.22	54.00	-7.78	30.73	3	Vertical	265	2.00	-
2427MHz	Pass	PK	2.389G	66.85	74.00	-7.15	30.37	3	Vertical	265	2.00	-
2427MHz	Pass	PK	2.4246G	106.22	Inf	-Inf	30.49	3	Vertical	265	2.00	-
2427MHz	Pass	PK	2.4854G	56.74	74.00	-17.26	30.70	3	Vertical	265	2.00	-
2427MHz	Pass	AV	2.3894G	53.15	54.00	-0.85	30.37	3	Horizontal	188	1.81	-



RSE TX above 1GHz Result

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2427MHz	Pass	AV	2.4222G	96.48	Inf	-Inf	30.49	3	Horizontal	188	1.81	-
2427MHz	Pass	AV	2.4998G	46.62	54.00	-7.38	30.75	3	Horizontal	188	1.81	-
2427MHz	Pass	PK	2.389G	66.86	74.00	-7.14	30.37	3	Horizontal	188	1.81	-
2427MHz	Pass	PK	2.4218G	105.54	Inf	-Inf	30.48	3	Horizontal	188	1.81	-
2427MHz	Pass	PK	2.4998G	56.13	74.00	-17.87	30.75	3	Horizontal	188	1.81	-
2432MHz	Pass	AV	2.3892G	52.11	54.00	-1.89	30.37	3	Vertical	265	2.35	-
2432MHz	Pass	AV	2.4292G	98.21	Inf	-Inf	30.51	3	Vertical	265	2.35	-
2432MHz	Pass	AV	2.4844G	46.97	54.00	-7.03	30.69	3	Vertical	265	2.35	-
2432MHz	Pass	PK	2.3868G	66.65	74.00	-7.35	30.37	3	Vertical	265	2.35	-
2432MHz	Pass	PK	2.4336G	107.59	Inf	-Inf	30.52	3	Vertical	265	2.35	-
2432MHz	Pass	PK	2.483502G	58.56	74.00	-15.44	30.69	3	Vertical	265	2.35	-
2432MHz	Pass	AV	2.3888G	52.13	54.00	-1.87	30.37	3	Horizontal	193	1.72	-
2432MHz	Pass	AV	2.4268G	96.77	Inf	-Inf	30.50	3	Horizontal	193	1.72	-
2432MHz	Pass	AV	2.499998G	46.02	54.00	-7.98	30.75	3	Horizontal	193	1.72	-
2432MHz	Pass	PK	2.3884G	64.69	74.00	-9.31	30.37	3	Horizontal	193	1.72	-
2432MHz	Pass	PK	2.4344G	106.50	Inf	-Inf	30.53	3	Horizontal	193	1.72	-
2432MHz	Pass	PK	2.488G	56.61	74.00	-17.39	30.71	3	Horizontal	193	1.72	-
2437MHz	Pass	AV	2.3894G	53.03	54.00	-0.97	30.37	3	Vertical	263	2.39	-
2437MHz	Pass	AV	2.4346G	100.85	Inf	-Inf	30.53	3	Vertical	263	2.39	-
2437MHz	Pass	AV	2.4842G	53.65	54.00	-0.35	30.69	3	Vertical	263	2.39	-
2437MHz	Pass	PK	2.3894G	67.20	74.00	-6.80	30.37	3	Vertical	263	2.39	-
2437MHz	Pass	PK	2.4346G	110.01	Inf	-Inf	30.53	3	Vertical	263	2.39	-
2437MHz	Pass	PK	2.483502G	67.84	74.00	-6.16	30.69	3	Vertical	263	2.39	-
2437MHz	Pass	AV	2.3894G	53.15	54.00	-0.85	30.37	3	Horizontal	187	1.58	-
2437MHz	Pass	AV	2.4322G	99.15	Inf	-Inf	30.52	3	Horizontal	187	1.58	-
2437MHz	Pass	AV	2.4846G	50.37	54.00	-3.63	30.69	3	Horizontal	187	1.58	-
2437MHz	Pass	PK	2.3898G	66.24	74.00	-7.76	30.38	3	Horizontal	187	1.58	-
2437MHz	Pass	PK	2.4326G	108.13	Inf	-Inf	30.52	3	Horizontal	187	1.58	-
2437MHz	Pass	PK	2.4846G	63.04	74.00	-10.96	30.69	3	Horizontal	187	1.58	-
2437MHz	Pass	AV	4.8875G	34.16	54.00	-19.84	5.96	3	Vertical	168	1.77	-
2437MHz	Pass	PK	4.8773G	45.21	74.00	-28.79	5.94	3	Vertical	168	1.77	-
2437MHz	Pass	AV	4.88756G	42.50	54.00	-11.50	5.96	3	Horizontal	45	1.63	-
2437MHz	Pass	PK	4.8875G	48.47	74.00	-25.53	5.96	3	Horizontal	45	1.63	-
2442MHz	Pass	AV	2.389998G	46.83	54.00	-7.17	30.38	3	Vertical	252	2.26	-
2442MHz	Pass	AV	2.4392G	98.66	Inf	-Inf	30.54	3	Vertical	252	2.26	-
2442MHz	Pass	AV	2.484G	52.70	54.00	-1.30	30.69	3	Vertical	252	2.26	-
2442MHz	Pass	PK	2.388G	57.59	74.00	-16.41	30.37	3	Vertical	252	2.26	-
2442MHz	Pass	PK	2.4436G	107.45	Inf	-Inf	30.56	3	Vertical	252	2.26	-
2442MHz	Pass	PK	2.484G	67.01	74.00	-6.99	30.69	3	Vertical	252	2.26	-
2442MHz	Pass	AV	2.3888G	47.06	54.00	-6.94	30.37	3	Horizontal	186	1.58	-
2442MHz	Pass	AV	2.4368G	97.42	Inf	-Inf	30.54	3	Horizontal	186	1.58	-
2442MHz	Pass	AV	2.484G	50.03	54.00	-3.97	30.69	3	Horizontal	186	1.58	-
2442MHz	Pass	PK	2.389998G	57.50	74.00	-16.50	30.38	3	Horizontal	186	1.58	-
2442MHz	Pass	PK	2.4368G	106.52	Inf	-Inf	30.54	3	Horizontal	186	1.58	-
2442MHz	Pass	PK	2.484G	64.59	74.00	-9.41	30.69	3	Horizontal	186	1.58	-
2447MHz	Pass	AV	2.3894G	46.34	54.00	-7.66	30.37	3	Vertical	270	2.27	-
2447MHz	Pass	AV	2.4442G	97.14	Inf	-Inf	30.56	3	Vertical	270	2.27	-
2447MHz	Pass	AV	2.4838G	52.79	54.00	-1.21	30.69	3	Vertical	270	2.27	-
2447MHz	Pass	PK	2.3898G	56.93	74.00	-17.07	30.38	3	Vertical	270	2.27	-



RSE TX above 1GHz Result

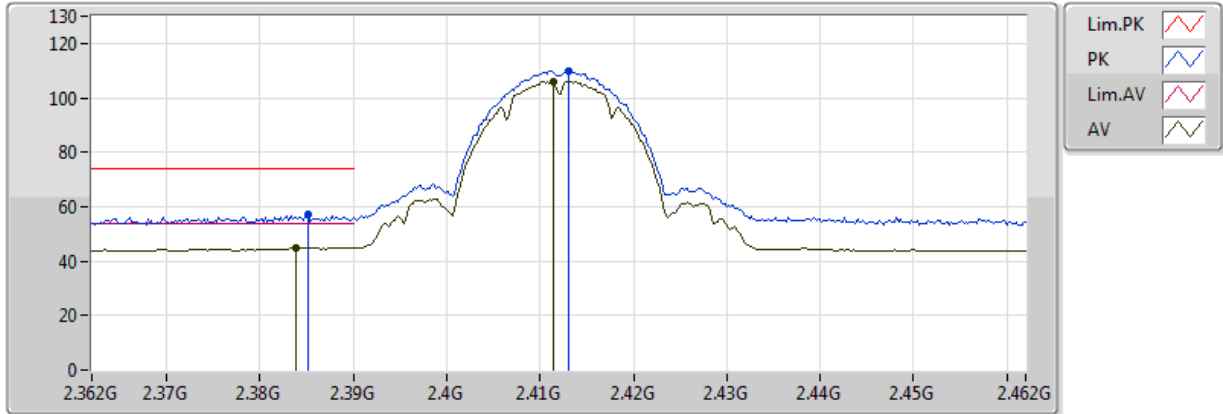
Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2447MHz	Pass	PK	2.4438G	107.27	Inf	-Inf	30.56	3	Vertical	270	2.27	-
2447MHz	Pass	PK	2.4838G	66.32	74.00	-7.68	30.69	3	Vertical	270	2.27	-
2447MHz	Pass	AV	2.3886G	45.41	54.00	-8.59	30.37	3	Horizontal	204	1.57	-
2447MHz	Pass	AV	2.445G	96.05	Inf	-Inf	30.56	3	Horizontal	204	1.57	-
2447MHz	Pass	AV	2.4846G	50.35	54.00	-3.65	30.69	3	Horizontal	204	1.57	-
2447MHz	Pass	PK	2.3878G	56.32	74.00	-17.68	30.37	3	Horizontal	204	1.57	-
2447MHz	Pass	PK	2.4446G	106.02	Inf	-Inf	30.56	3	Horizontal	204	1.57	-
2447MHz	Pass	PK	2.483502G	64.42	74.00	-9.58	30.69	3	Horizontal	204	1.57	-
2452MHz	Pass	AV	2.388G	45.91	54.00	-8.09	30.37	3	Vertical	264	2.58	-
2452MHz	Pass	AV	2.454G	95.44	Inf	-Inf	30.59	3	Vertical	264	2.58	-
2452MHz	Pass	AV	2.483502G	52.57	54.00	-1.43	30.69	3	Vertical	264	2.58	-
2452MHz	Pass	PK	2.3852G	57.70	74.00	-16.30	30.36	3	Vertical	264	2.58	-
2452MHz	Pass	PK	2.4536G	105.66	Inf	-Inf	30.59	3	Vertical	264	2.58	-
2452MHz	Pass	PK	2.483502G	65.64	74.00	-8.36	30.69	3	Vertical	264	2.58	-
2452MHz	Pass	AV	2.3836G	46.23	54.00	-7.77	30.36	3	Horizontal	187	1.78	-
2452MHz	Pass	AV	2.4468G	94.67	Inf	-Inf	30.57	3	Horizontal	187	1.78	-
2452MHz	Pass	AV	2.4844G	50.55	54.00	-3.45	30.69	3	Horizontal	187	1.78	-
2452MHz	Pass	PK	2.3876G	57.16	74.00	-16.84	30.37	3	Horizontal	187	1.78	-
2452MHz	Pass	PK	2.4468G	103.44	Inf	-Inf	30.57	3	Horizontal	187	1.78	-
2452MHz	Pass	PK	2.4844G	63.47	74.00	-10.53	30.69	3	Horizontal	187	1.78	-
2452MHz	Pass	AV	4.8902G	33.72	54.00	-20.28	5.97	3	Vertical	85	1.55	-
2452MHz	Pass	PK	4.889G	45.73	74.00	-28.27	5.97	3	Vertical	85	1.55	-
2452MHz	Pass	AV	4.88972G	33.64	54.00	-20.36	5.97	3	Horizontal	134	2.31	-
2452MHz	Pass	PK	4.89236G	45.17	74.00	-28.83	5.97	3	Horizontal	134	2.31	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

28/07/2018

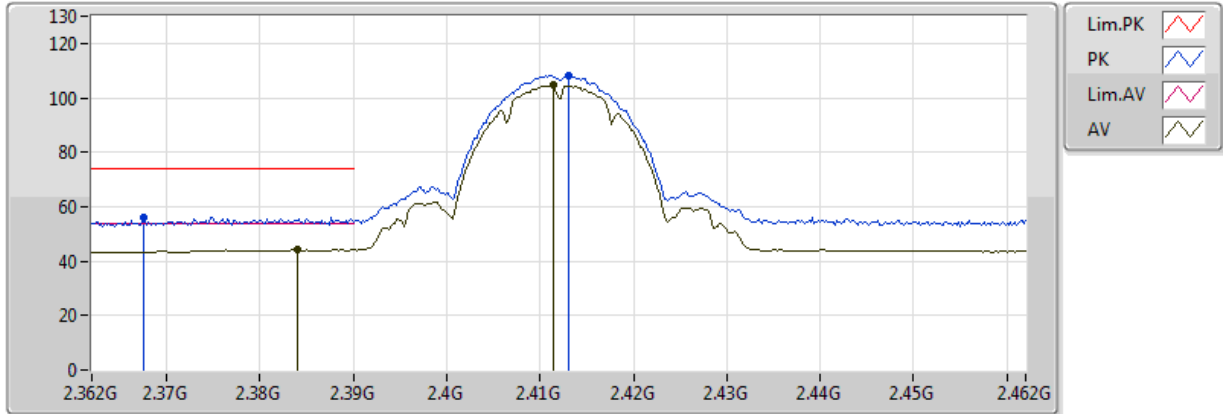


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3838G	45.10	54.00	-8.90	30.36	3	Vertical	97	1.00	-
AV	2.4114G	106.18	Inf	-Inf	30.45	3	Vertical	97	1.00	-
PK	2.3852G	57.19	74.00	-16.81	30.36	3	Vertical	97	1.00	-
PK	2.413G	109.99	Inf	-Inf	30.45	3	Vertical	97	1.00	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

28/07/2018

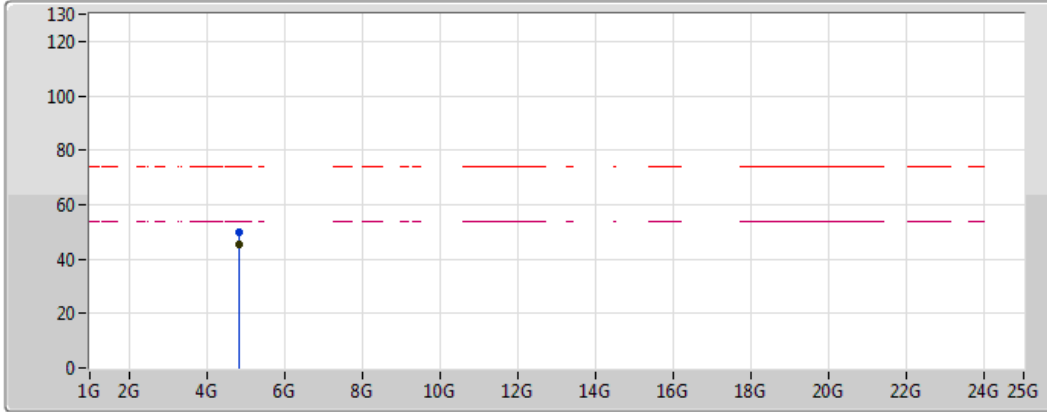






Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.384G	44.20	54.00	-9.80	30.36	3	Horizontal	194	1.61	-
AV	2.4114G	104.55	Inf	-Inf	30.45	3	Horizontal	194	1.61	-
PK	2.3676G	55.84	74.00	-18.16	30.30	3	Horizontal	194	1.61	-
PK	2.413G	108.34	Inf	-Inf	30.45	3	Horizontal	194	1.61	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

28/07/2018



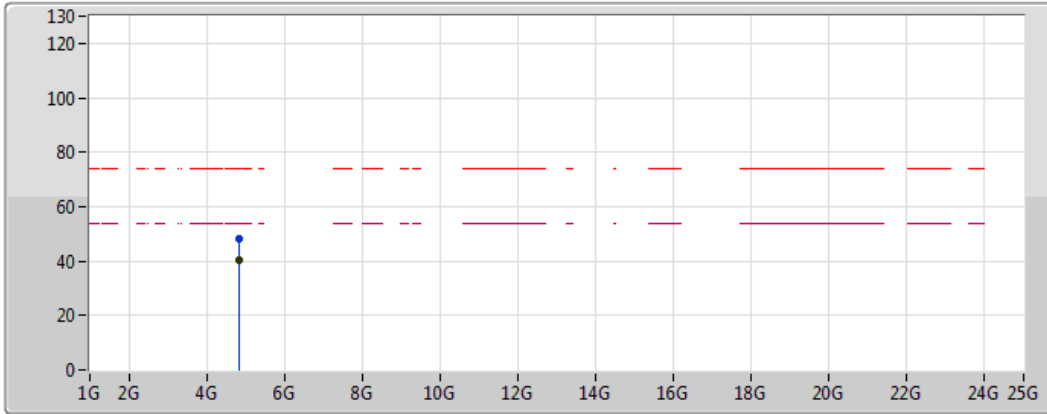
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AV	





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82418G	45.22	54.00	-8.78	5.83	3	Vertical	38	2.87	-
PK	4.8243G	50.02	74.00	-23.98	5.83	3	Vertical	38	2.87	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

28/07/2018



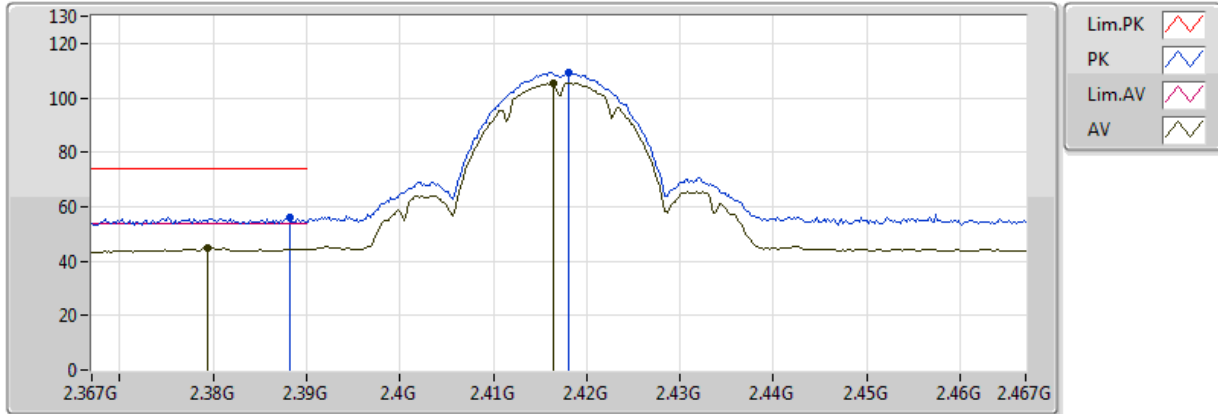
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AV	

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82418G	40.57	54.00	-13.43	5.83	3	Horizontal	82	2.27	-
PK	4.8243G	47.99	74.00	-26.01	5.83	3	Horizontal	82	2.27	-

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

29/07/2018

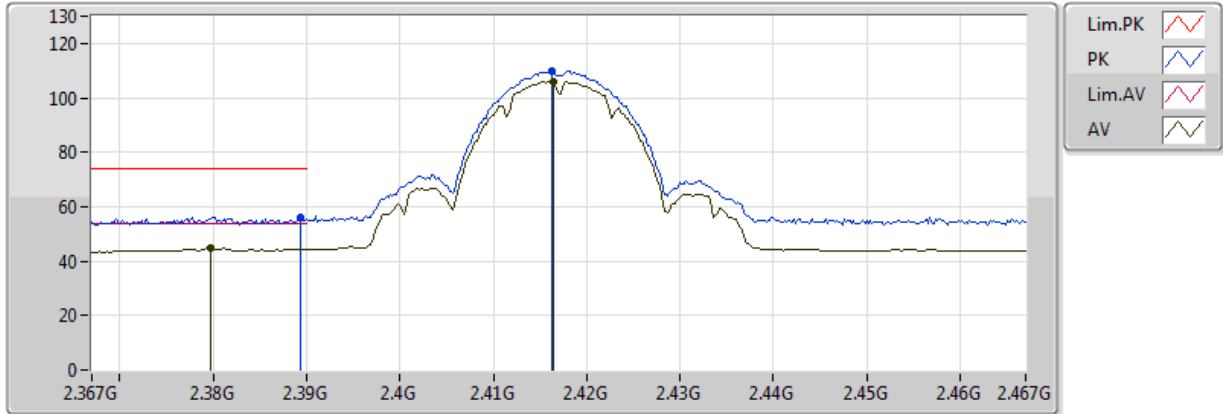


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3794G	44.83	54.00	-9.17	30.34	3	Vertical	254	1.99	-
AV	2.4164G	105.49	Inf	-Inf	30.47	3	Vertical	254	1.99	-
PK	2.3882G	56.15	74.00	-17.85	30.37	3	Vertical	254	1.99	-
PK	2.418G	109.39	Inf	-Inf	30.47	3	Vertical	254	1.99	-

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

29/07/2018

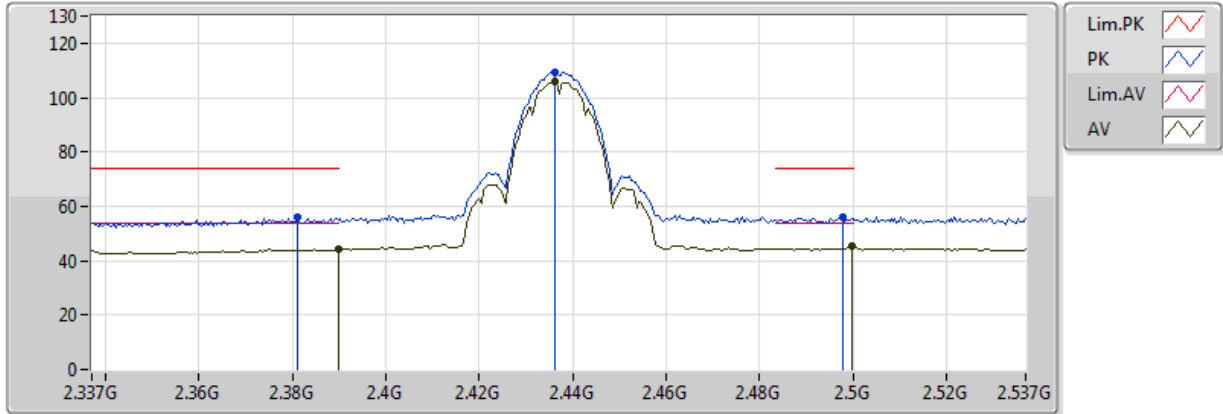


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3798G	44.79	54.00	-9.21	30.34	3	Horizontal	193	1.61	-
AV	2.4164G	106.07	Inf	-Inf	30.47	3	Horizontal	193	1.61	-
PK	2.3894G	56.28	74.00	-17.72	30.37	3	Horizontal	193	1.61	-
PK	2.4162G	109.90	Inf	-Inf	30.47	3	Horizontal	193	1.61	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

28/07/2018

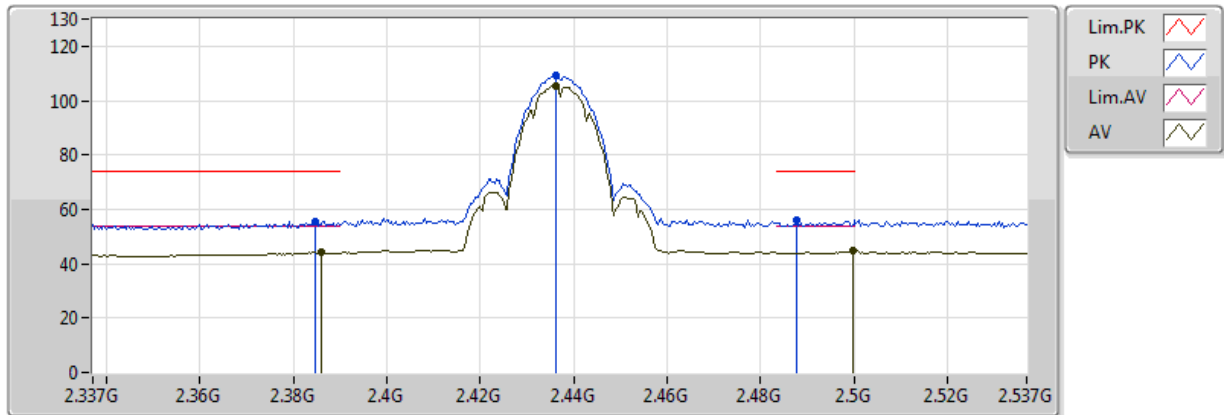


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	44.10	54.00	-9.90	30.38	3	Vertical	267	1.96	-
AV	2.4362G	105.66	Inf	-Inf	30.53	3	Vertical	267	1.96	-
AV	2.4998G	45.21	54.00	-8.79	30.75	3	Vertical	267	1.96	-
PK	2.381G	56.22	74.00	-17.78	30.34	3	Vertical	267	1.96	-
PK	2.4362G	109.48	Inf	-Inf	30.53	3	Vertical	267	1.96	-
PK	2.4978G	55.90	74.00	-18.10	30.74	3	Vertical	267	1.96	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

28/07/2018

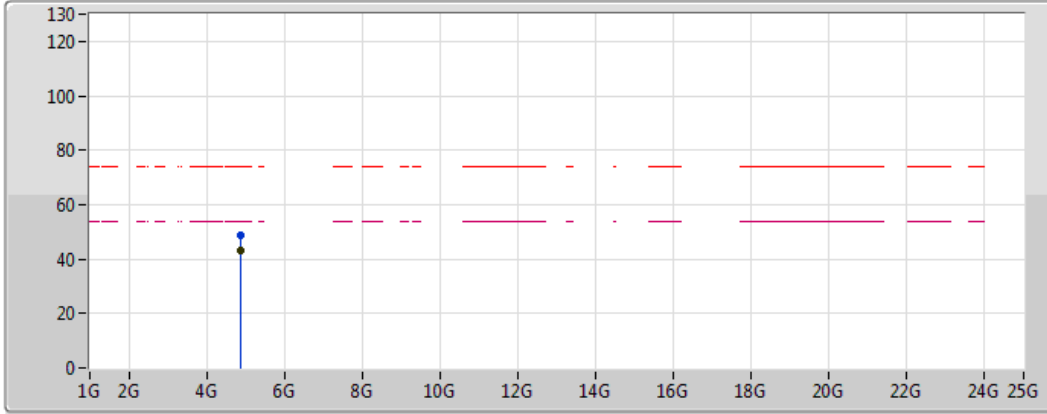


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3858G	44.08	54.00	-9.92	30.37	3	Horizontal	193	1.71	-
AV	2.4362G	105.34	Inf	-Inf	30.53	3	Horizontal	193	1.71	-
AV	2.4998G	44.75	54.00	-9.25	30.75	3	Horizontal	193	1.71	-
PK	2.3846G	55.58	74.00	-18.42	30.36	3	Horizontal	193	1.71	-
PK	2.4362G	109.13	Inf	-Inf	30.53	3	Horizontal	193	1.71	-
PK	2.4878G	56.05	74.00	-17.95	30.71	3	Horizontal	193	1.71	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

28/07/2018

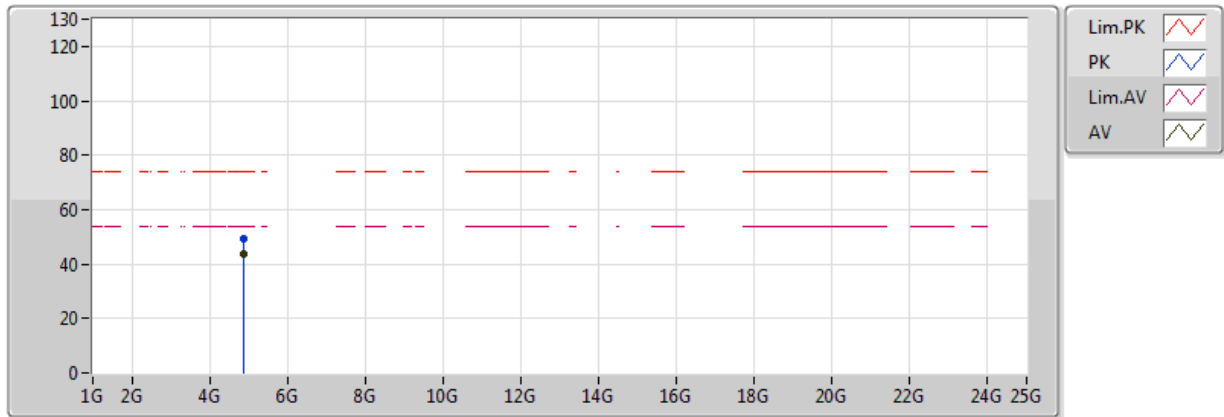


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87412G	43.17	54.00	-10.83	5.94	3	Vertical	130	1.84	-
PK	4.87406G	48.86	74.00	-25.14	5.94	3	Vertical	130	1.84	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

28/07/2018

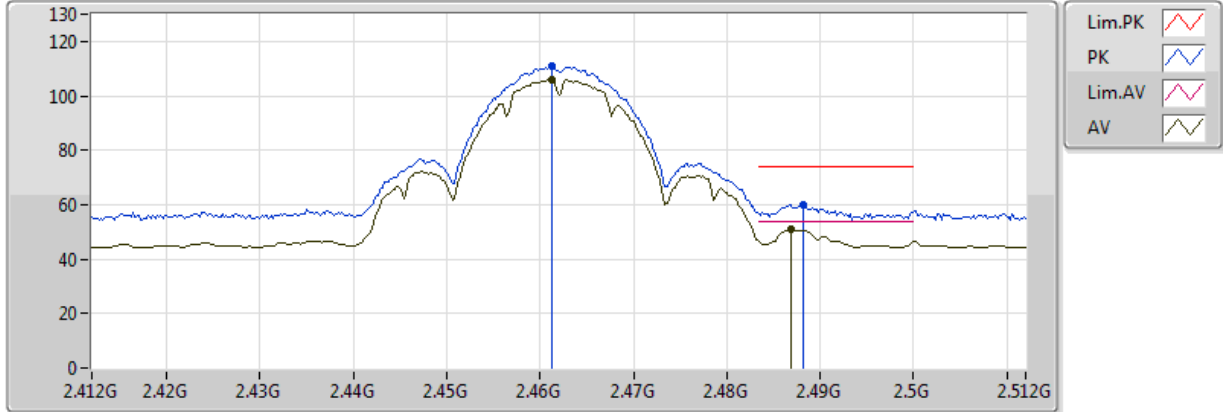


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87412G	43.74	54.00	-10.26	5.94	3	Horizontal	97	2.85	-
PK	4.87424G	49.22	74.00	-24.78	5.94	3	Horizontal	97	2.85	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

28/07/2018

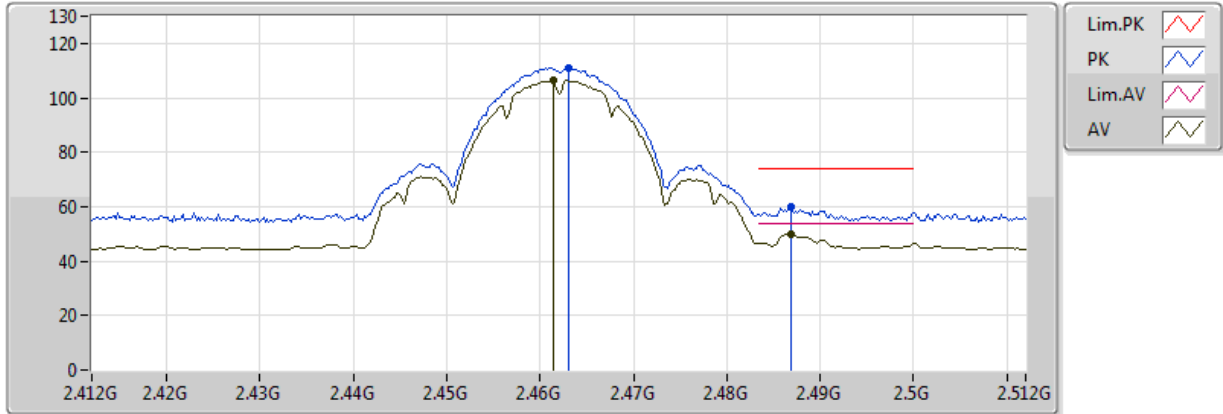


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4612G	105.99	Inf	-Inf	30.62	3	Vertical	266	1.98	-
AV	2.4868G	50.94	54.00	-3.06	30.71	3	Vertical	266	1.98	-
PK	2.4612G	110.73	Inf	-Inf	30.62	3	Vertical	266	1.98	-
PK	2.4882G	59.80	74.00	-14.20	30.71	3	Vertical	266	1.98	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

28/07/2018

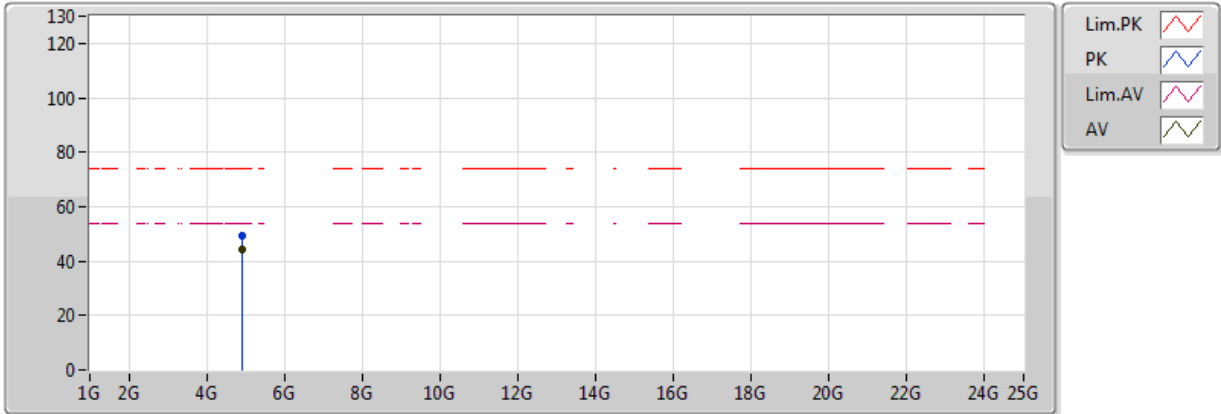


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4614G	106.49	Inf	-Inf	30.62	3	Horizontal	189	1.52	-
AV	2.4868G	49.91	54.00	-4.09	30.71	3	Horizontal	189	1.52	-
PK	2.463G	111.16	Inf	-Inf	30.62	3	Horizontal	189	1.52	-
PK	2.4868G	59.83	74.00	-14.17	30.71	3	Horizontal	189	1.52	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

28/07/2018

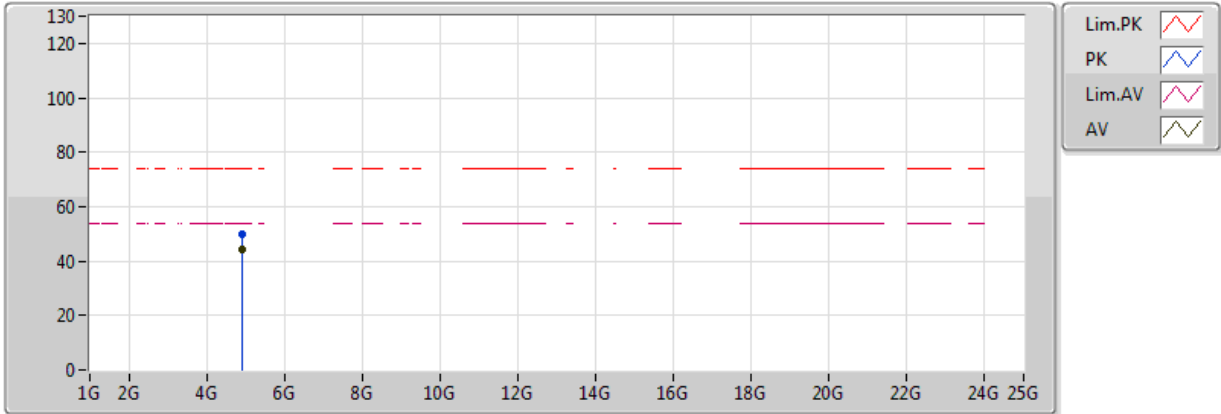


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92412G	44.04	54.00	-9.96	6.04	3	Vertical	144	1.69	-
PK	4.92424G	49.59	74.00	-24.41	6.04	3	Vertical	144	1.69	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

28/07/2018

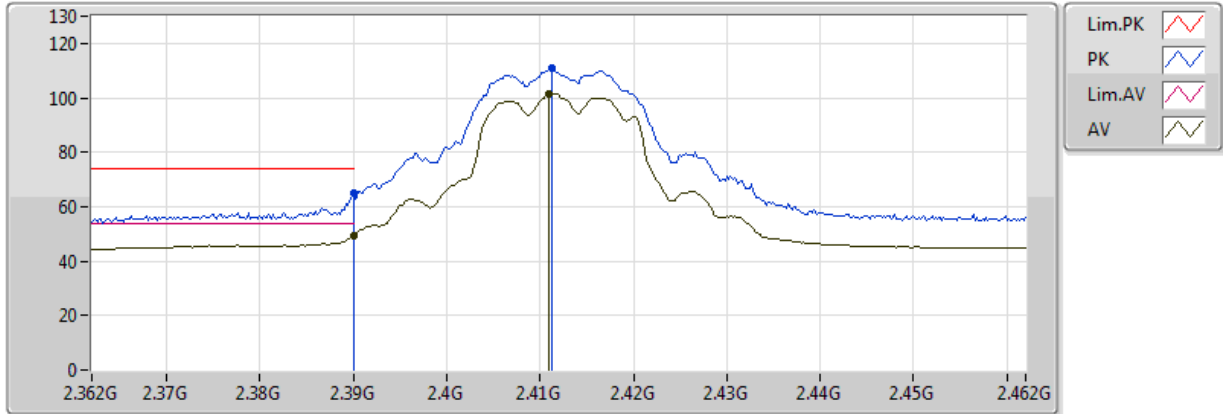


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92414G	44.06	54.00	-9.94	6.04	3	Horizontal	84	2.99	-
PK	4.92407G	49.71	74.00	-24.29	6.04	3	Horizontal	84	2.99	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

28/07/2018

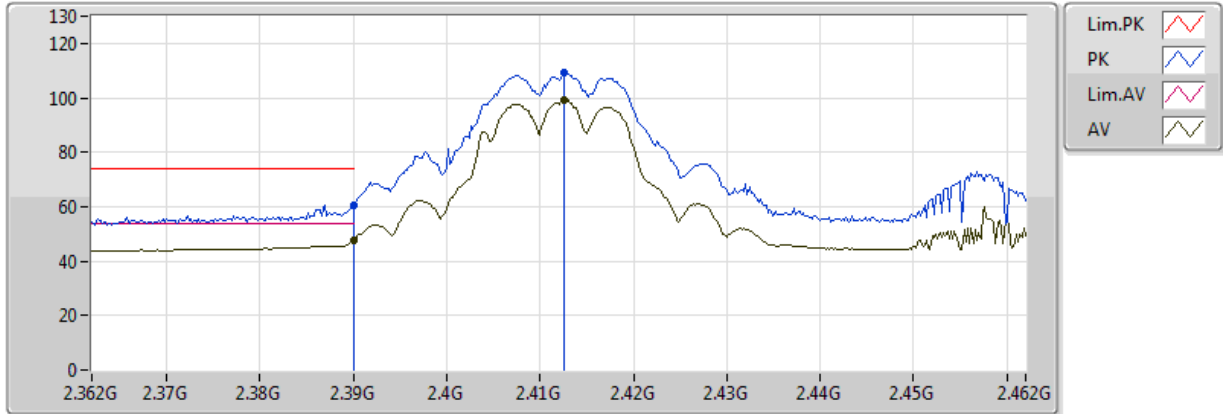


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	49.45	54.00	-4.55	30.38	3	Vertical	264	1.99	-
AV	2.411G	101.63	Inf	-Inf	30.45	3	Vertical	264	1.99	-
PK	2.389998G	65.19	74.00	-8.81	30.38	3	Vertical	264	1.99	-
PK	2.4112G	110.88	Inf	-Inf	30.45	3	Vertical	264	1.99	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

28/07/2018

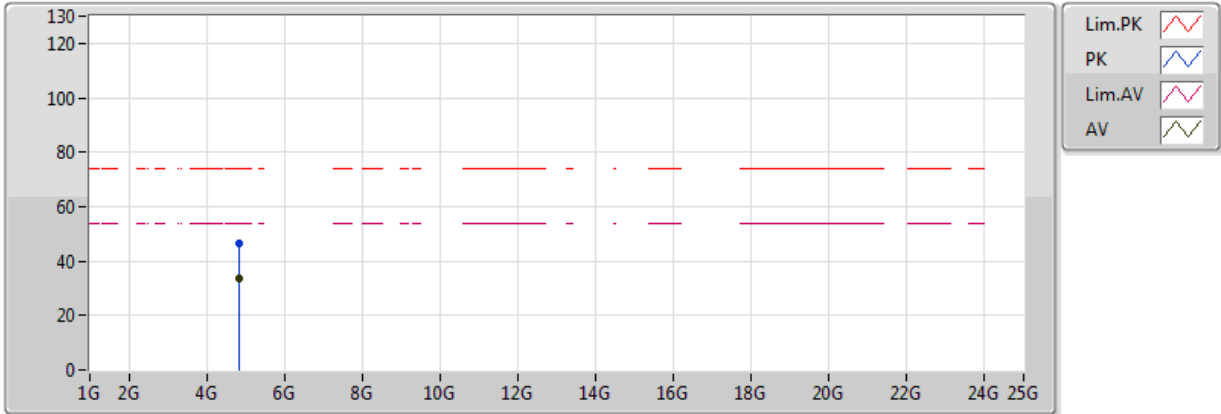


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	47.36	54.00	-6.64	30.38	3	Horizontal	210	1.47	-
AV	2.4126G	99.11	Inf	-Inf	30.45	3	Horizontal	210	1.47	-
PK	2.389998G	60.61	74.00	-13.39	30.38	3	Horizontal	210	1.47	-
PK	2.4126G	109.02	Inf	-Inf	30.45	3	Horizontal	210	1.47	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

28/07/2018

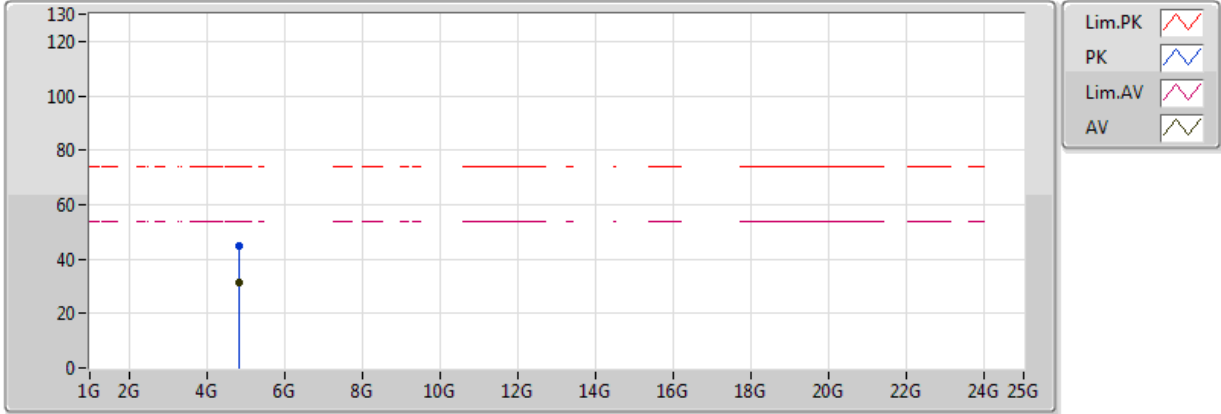


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82214G	33.70	54.00	-20.30	5.83	3	Vertical	30	2.75	-
PK	4.82592G	46.67	74.00	-27.33	5.83	3	Vertical	30	2.75	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

28/07/2018

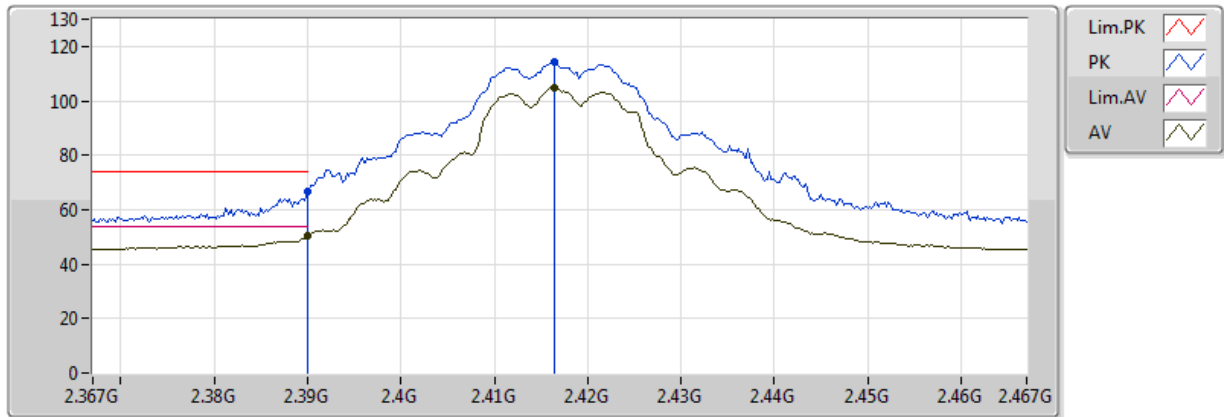


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.81836G	31.58	54.00	-22.42	5.82	3	Horizontal	145	1.56	-
PK	4.82724G	44.69	74.00	-29.31	5.84	3	Horizontal	145	1.56	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

29/07/2018

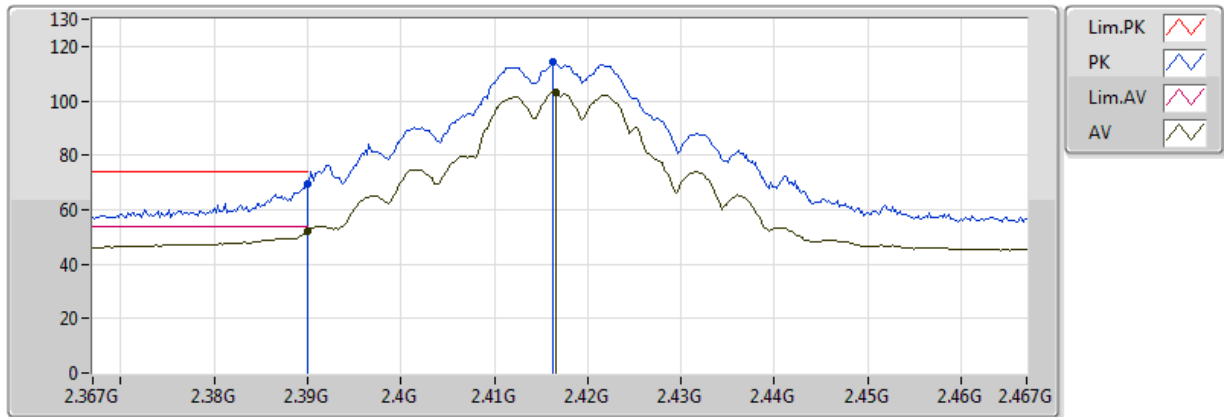


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	50.44	54.00	-3.56	30.38	3	Vertical	266	1.98	-
AV	2.4164G	104.83	Inf	-Inf	30.47	3	Vertical	266	1.98	-
PK	2.389998G	66.92	74.00	-7.08	30.38	3	Vertical	266	1.98	-
PK	2.4164G	114.20	Inf	-Inf	30.47	3	Vertical	266	1.98	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

29/07/2018

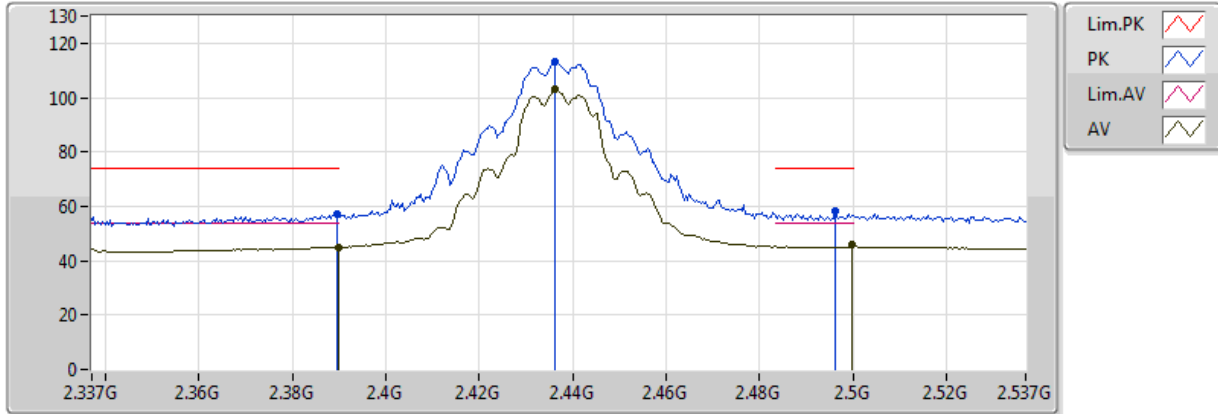


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	52.03	54.00	-1.97	30.38	3	Horizontal	190	1.80	-
AV	2.4166G	103.37	Inf	-Inf	30.47	3	Horizontal	190	1.80	-
PK	2.389998G	69.43	74.00	-4.57	30.38	3	Horizontal	190	1.80	-
PK	2.4162G	114.11	Inf	-Inf	30.47	3	Horizontal	190	1.80	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

28/07/2018

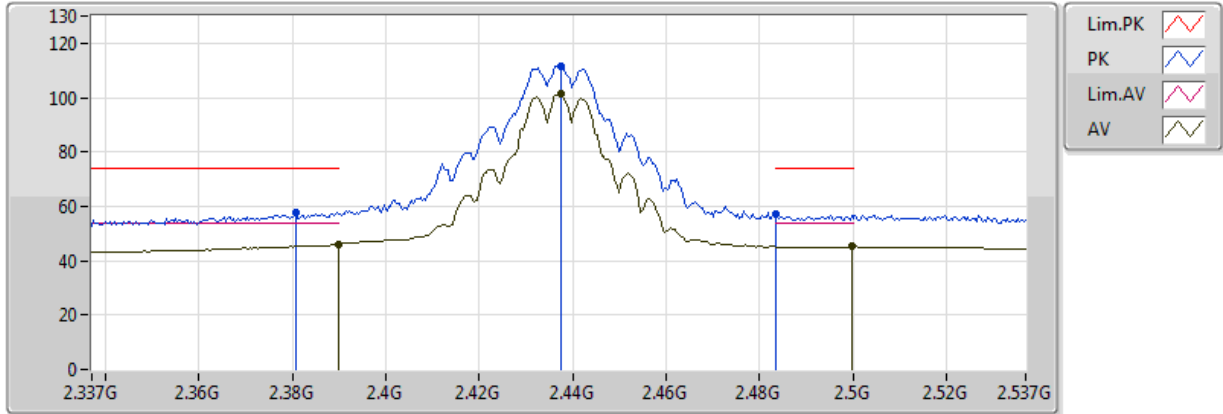


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	44.98	54.00	-9.02	30.38	3	Vertical	264	1.73	-
AV	2.4362G	103.24	Inf	-Inf	30.53	3	Vertical	264	1.73	-
AV	2.4998G	45.70	54.00	-8.30	30.75	3	Vertical	264	1.73	-
PK	2.3894G	57.02	74.00	-16.98	30.37	3	Vertical	264	1.73	-
PK	2.4362G	113.39	Inf	-Inf	30.53	3	Vertical	264	1.73	-
PK	2.4962G	58.15	74.00	-15.85	30.74	3	Vertical	264	1.73	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

28/07/2018

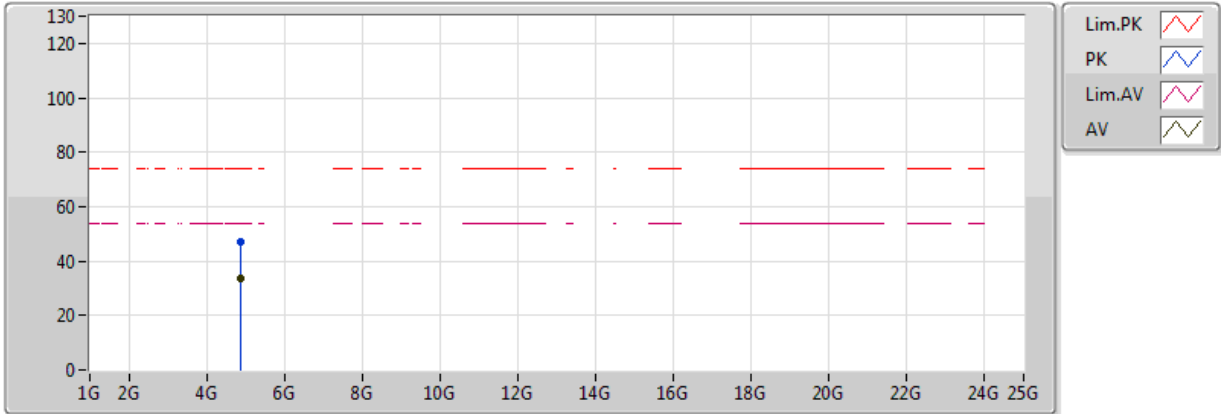


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	45.96	54.00	-8.04	30.38	3	Horizontal	195	1.59	-
AV	2.4374G	101.43	Inf	-Inf	30.54	3	Horizontal	195	1.59	-
AV	2.4998G	45.39	54.00	-8.61	30.75	3	Horizontal	195	1.59	-
PK	2.3806G	57.58	74.00	-16.42	30.34	3	Horizontal	195	1.59	-
PK	2.4374G	111.72	Inf	-Inf	30.54	3	Horizontal	195	1.59	-
PK	2.483502G	57.08	74.00	-16.92	30.69	3	Horizontal	195	1.59	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

28/07/2018

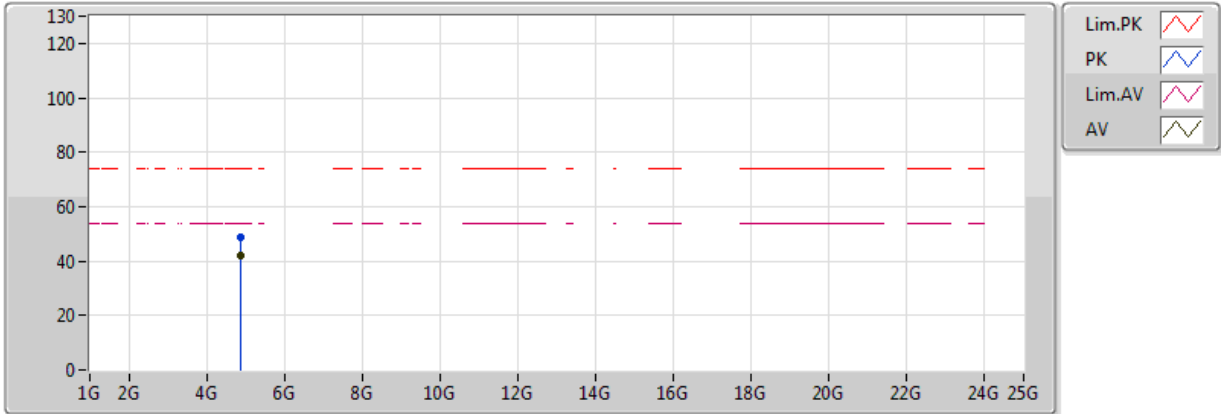


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87202G	33.71	54.00	-20.29	5.93	3	Vertical	210	1.59	-
PK	4.87616G	47.15	74.00	-26.85	5.94	3	Vertical	210	1.59	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

28/07/2018

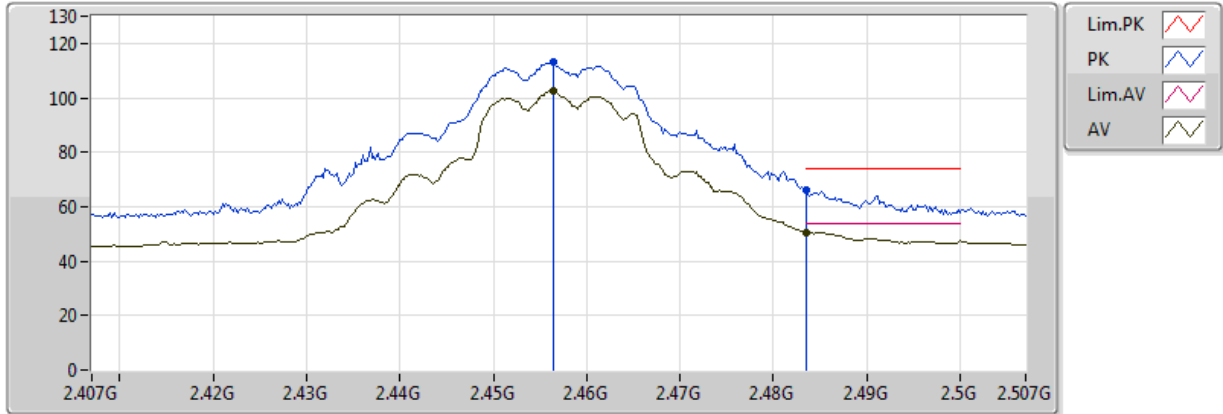


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.88756G	42.01	54.00	-11.99	5.96	3	Horizontal	134	1.55	-
PK	4.88786G	48.87	74.00	-25.13	5.96	3	Horizontal	134	1.55	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

29/07/2018

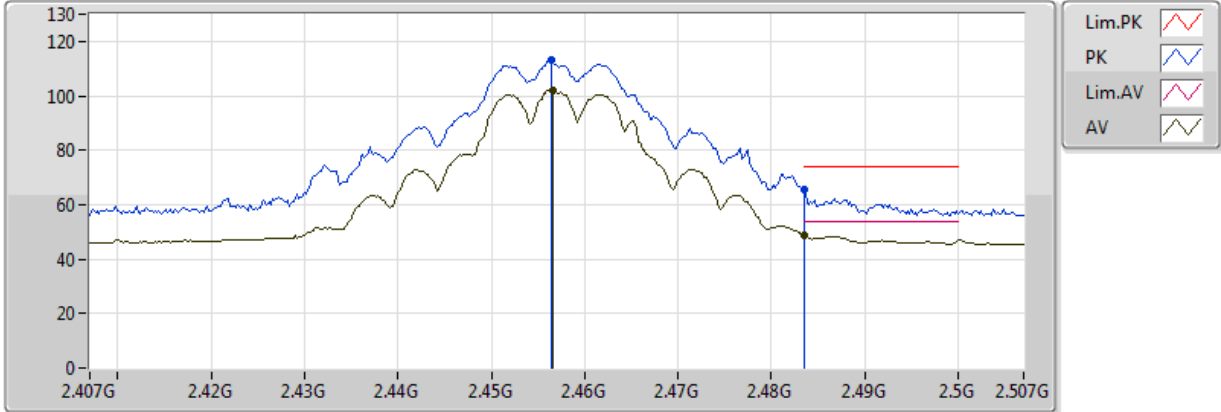


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4564G	102.80	Inf	-Inf	30.60	3	Vertical	251	2.22	-
AV	2.483502G	50.55	54.00	-3.45	30.69	3	Vertical	251	2.22	-
PK	2.4564G	113.22	Inf	-Inf	30.60	3	Vertical	251	2.22	-
PK	2.483502G	66.09	74.00	-7.91	30.69	3	Vertical	251	2.22	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

29/07/2018

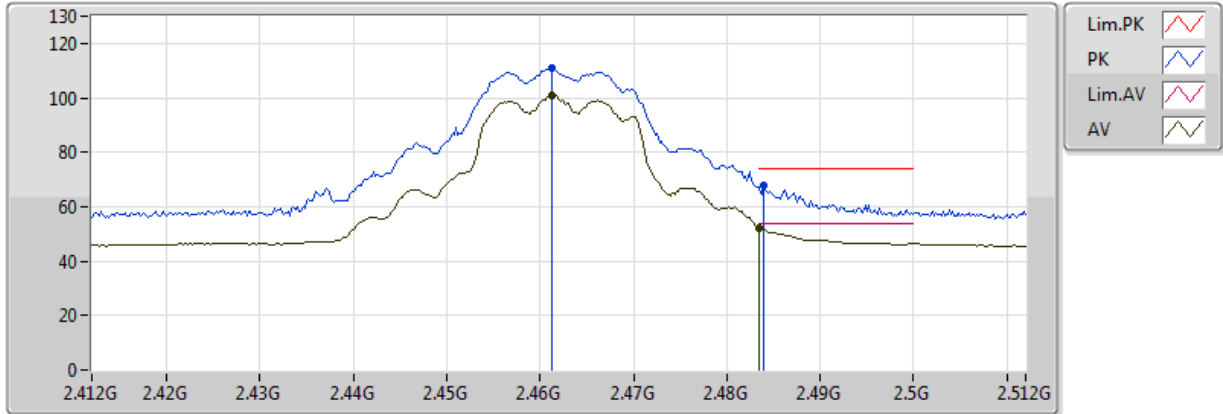


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4566G	102.26	Inf	-Inf	30.60	3	Horizontal	188	1.55	-
AV	2.483502G	48.97	54.00	-5.03	30.69	3	Horizontal	188	1.55	-
PK	2.4564G	113.08	Inf	-Inf	30.60	3	Horizontal	188	1.55	-
PK	2.483502G	65.61	74.00	-8.39	30.69	3	Horizontal	188	1.55	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

28/07/2018

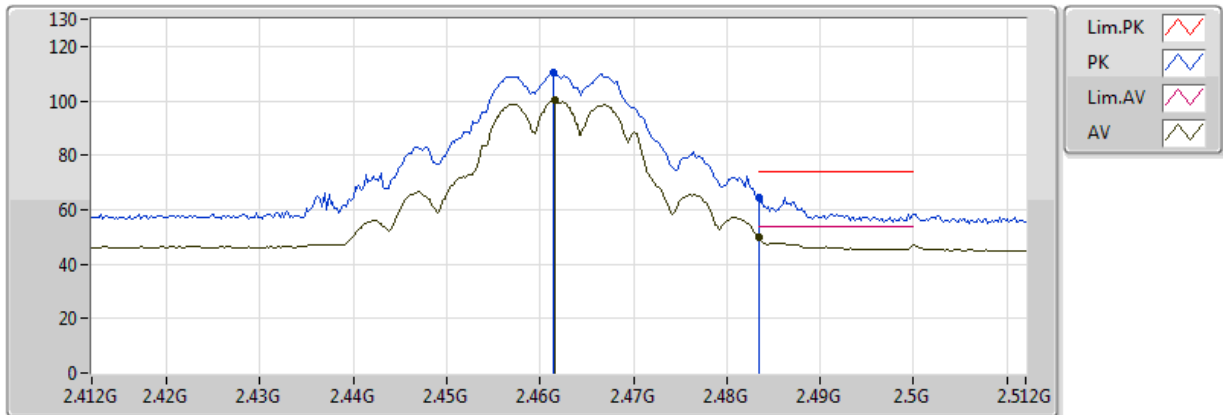


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4612G	101.06	Inf	-Inf	30.62	3	Vertical	256	1.99	-
AV	2.483502G	52.18	54.00	-1.82	30.69	3	Vertical	256	1.99	-
PK	2.4612G	111.11	Inf	-Inf	30.62	3	Vertical	256	1.99	-
PK	2.484G	68.04	74.00	-5.96	30.69	3	Vertical	256	1.99	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

28/07/2018

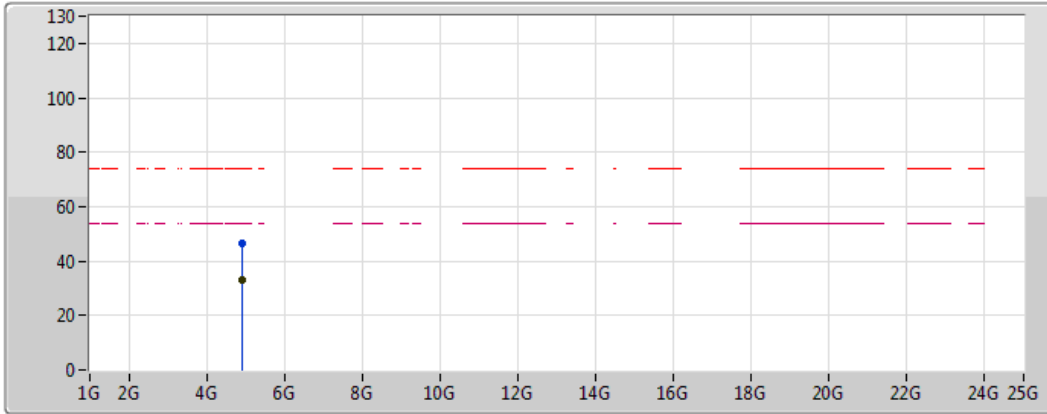






Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4616G	100.34	Inf	-Inf	30.62	3	Horizontal	188	1.79	-
AV	2.483502G	49.84	54.00	-4.16	30.69	3	Horizontal	188	1.79	-
PK	2.4614G	110.57	Inf	-Inf	30.62	3	Horizontal	188	1.79	-
PK	2.483502G	64.21	74.00	-9.79	30.69	3	Horizontal	188	1.79	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

28/07/2018



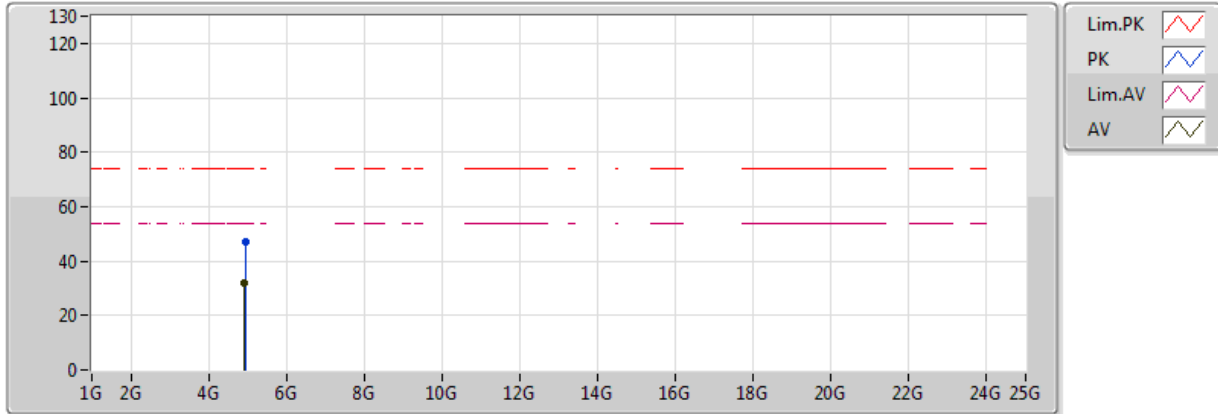
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PK	
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AV	

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92598G	32.80	54.00	-21.20	6.04	3	Vertical	324	1.74	-
PK	4.92562G	46.48	74.00	-27.52	6.04	3	Vertical	324	1.74	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

28/07/2018

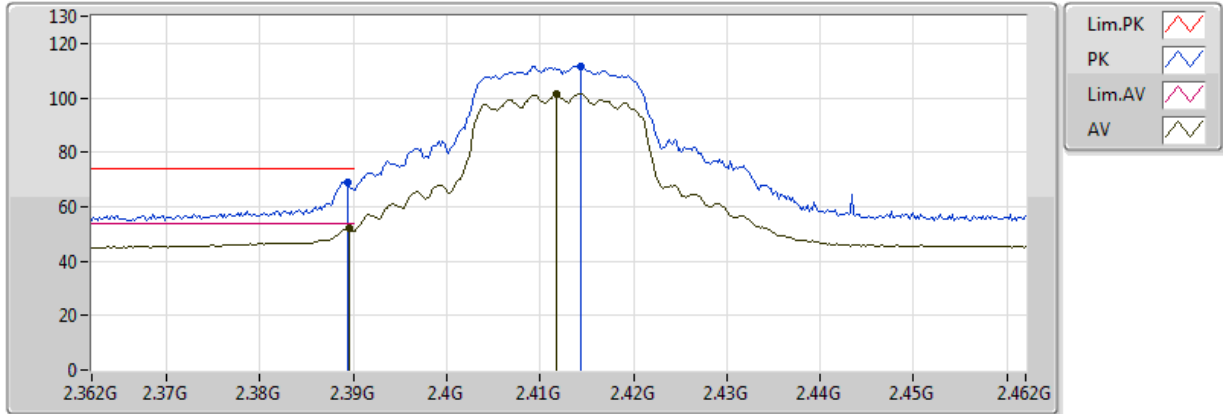


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92694G	32.09	54.00	-21.91	6.05	3	Horizontal	115	1.64	-
PK	4.93522G	46.81	74.00	-27.19	6.06	3	Horizontal	115	1.64	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

28/07/2018

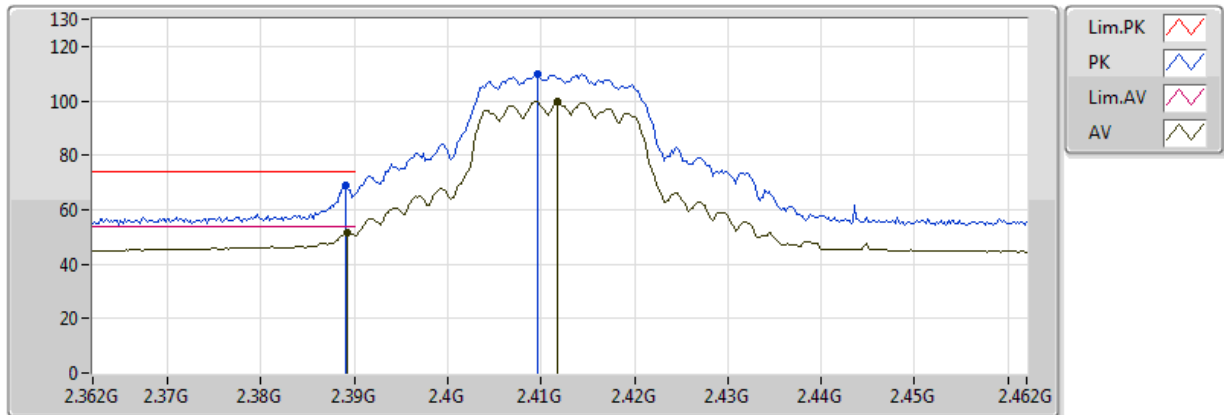


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3896G	51.95	54.00	-2.05	30.38	3	Vertical	266	2.52	-
AV	2.4118G	101.67	Inf	-Inf	30.45	3	Vertical	266	2.52	-
PK	2.3894G	69.07	74.00	-4.93	30.37	3	Vertical	266	2.52	-
PK	2.4144G	111.60	Inf	-Inf	30.46	3	Vertical	266	2.52	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

28/07/2018

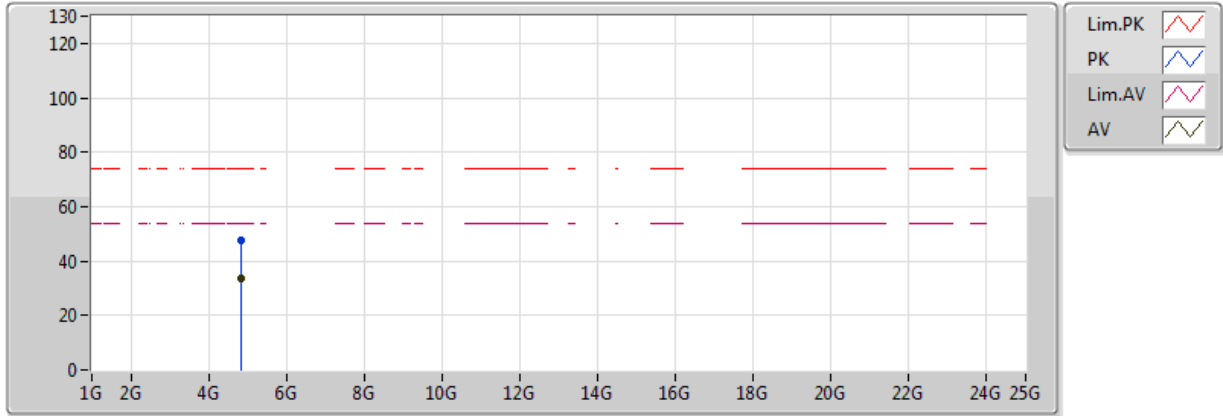


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3892G	51.52	54.00	-2.48	30.37	3	Horizontal	192	1.60	-
AV	2.4118G	99.71	Inf	-Inf	30.45	3	Horizontal	192	1.60	-
PK	2.389G	68.80	74.00	-5.20	30.37	3	Horizontal	192	1.60	-
PK	2.4096G	109.75	Inf	-Inf	30.44	3	Horizontal	192	1.60	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

28/07/2018

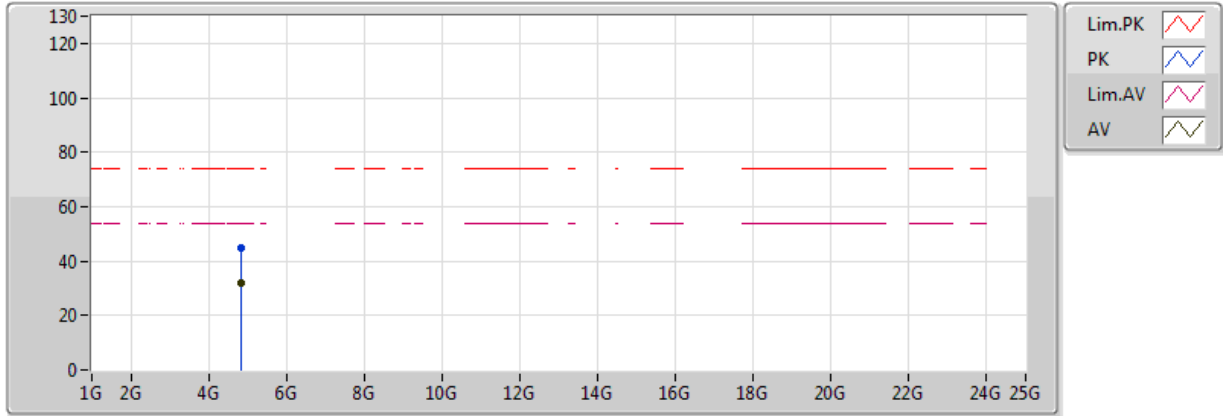


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82274G	33.90	54.00	-20.10	5.83	3	Vertical	75	2.13	-
PK	4.82316G	47.40	74.00	-26.60	5.83	3	Vertical	75	2.13	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

28/07/2018

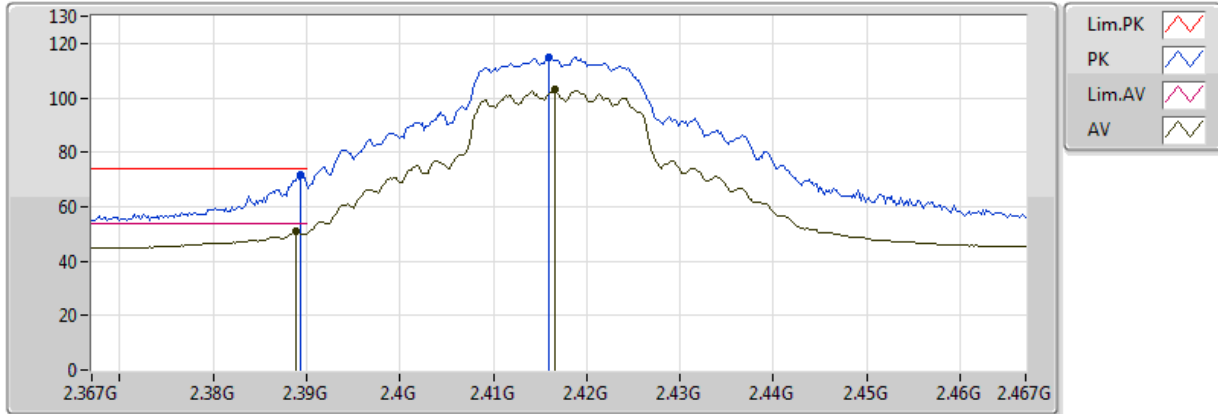


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8183G	31.93	54.00	-22.07	5.82	3	Horizontal	164	2.08	-
PK	4.82442G	44.77	74.00	-29.23	5.83	3	Horizontal	164	2.08	-

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

29/07/2018

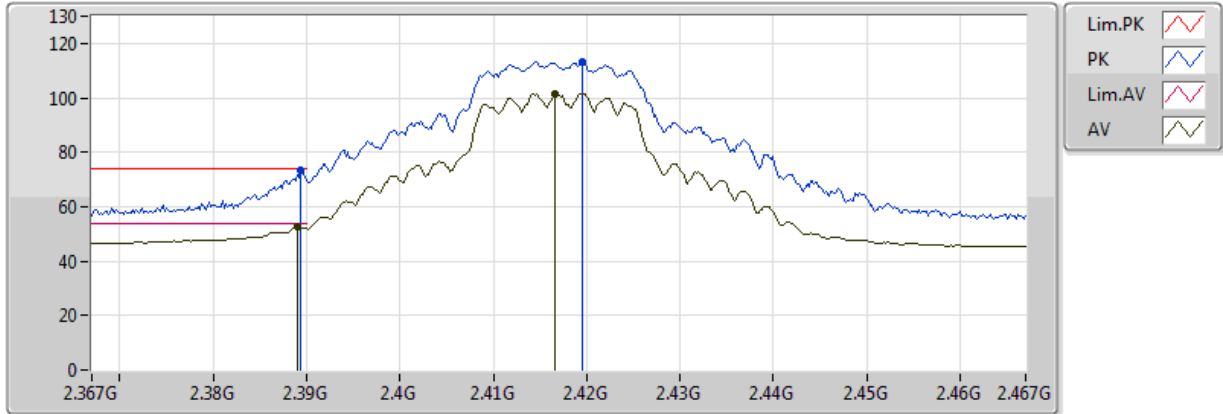


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3888G	50.77	54.00	-3.23	30.37	3	Vertical	252	2.52	-
AV	2.4166G	103.30	Inf	-Inf	30.47	3	Vertical	252	2.52	-
PK	2.3894G	71.64	74.00	-2.36	30.37	3	Vertical	252	2.52	-
PK	2.416G	114.79	Inf	-Inf	30.46	3	Vertical	252	2.52	-

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

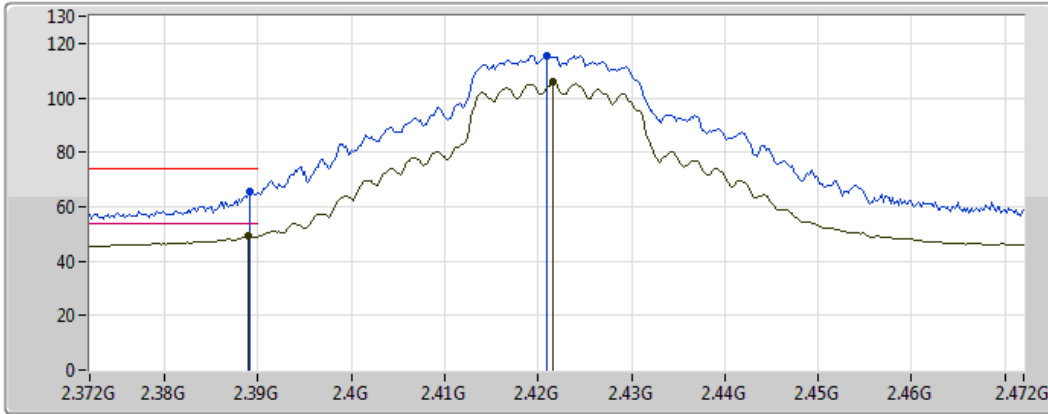
29/07/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389G	52.66	54.00	-1.34	30.37	3	Horizontal	190	1.80	-
AV	2.4166G	101.62	Inf	-Inf	30.47	3	Horizontal	190	1.80	-
PK	2.3894G	73.23	74.00	-0.77	30.37	3	Horizontal	190	1.80	-
PK	2.4196G	113.25	Inf	-Inf	30.48	3	Horizontal	190	1.80	-

**802.11n HT20_Nss1,(MCS0)_2TX
2422MHz_TX**

29/07/2018

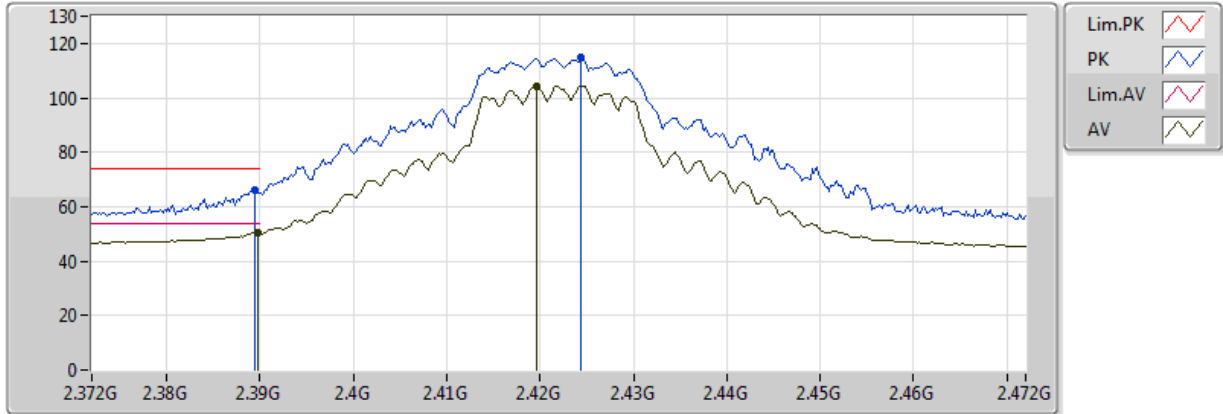


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389G	49.10	54.00	-4.90	30.37	3	Vertical	257	2.43	-
AV	2.4216G	105.65	Inf	-Inf	30.48	3	Vertical	257	2.43	-
PK	2.3892G	65.51	74.00	-8.49	30.37	3	Vertical	257	2.43	-
PK	2.421G	115.62	Inf	-Inf	30.48	3	Vertical	257	2.43	-

802.11n HT20_Nss1,(MCS0)_2TX

2422MHz_TX

29/07/2018

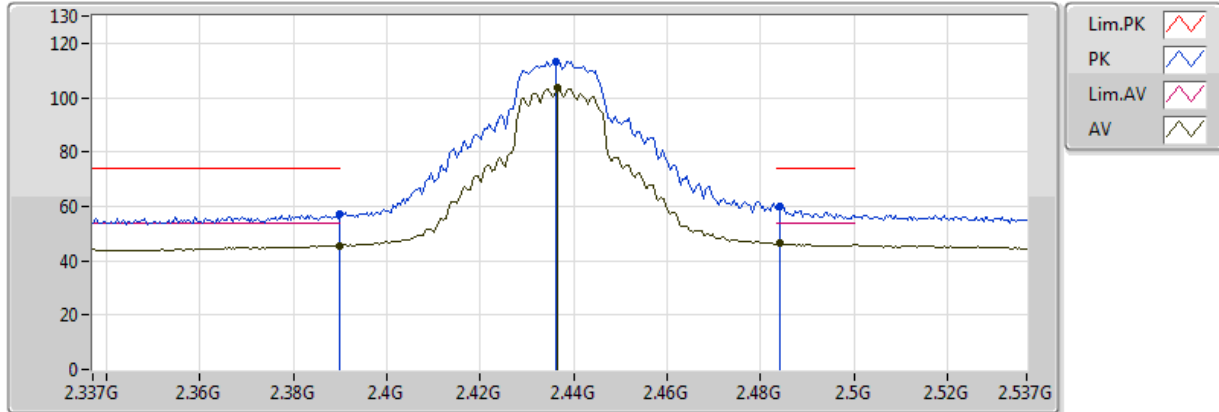


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	50.38	54.00	-3.62	30.38	3	Horizontal	186	1.80	-
AV	2.4196G	104.46	Inf	-Inf	30.48	3	Horizontal	186	1.80	-
PK	2.3894G	66.26	74.00	-7.74	30.37	3	Horizontal	186	1.80	-
PK	2.4244G	114.73	Inf	-Inf	30.49	3	Horizontal	186	1.80	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

28/07/2018

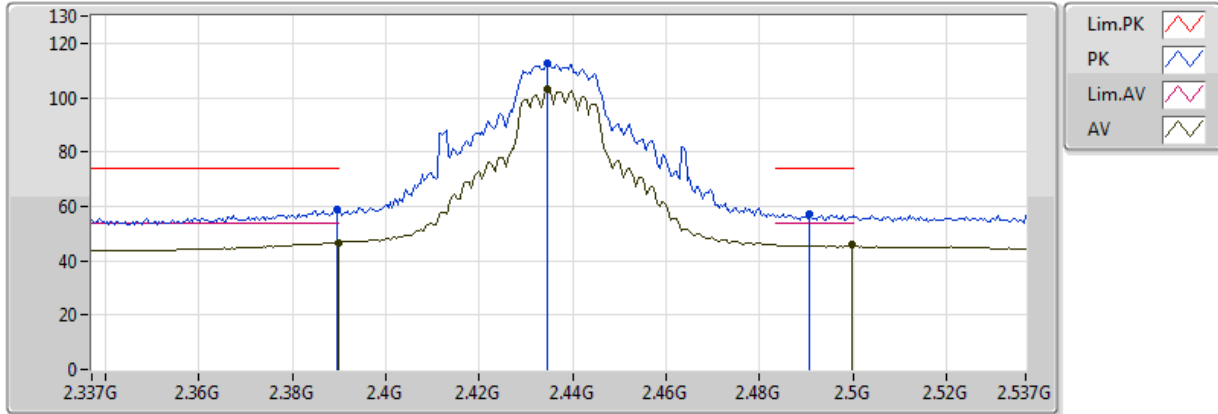


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	45.61	54.00	-8.39	30.38	3	Vertical	251	2.38	-
AV	2.4366G	103.73	Inf	-Inf	30.53	3	Vertical	251	2.38	-
AV	2.4842G	46.30	54.00	-7.70	30.69	3	Vertical	251	2.38	-
PK	2.3898G	57.40	74.00	-16.60	30.38	3	Vertical	251	2.38	-
PK	2.4362G	113.20	Inf	-Inf	30.53	3	Vertical	251	2.38	-
PK	2.4842G	60.07	74.00	-13.93	30.69	3	Vertical	251	2.38	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

28/07/2018

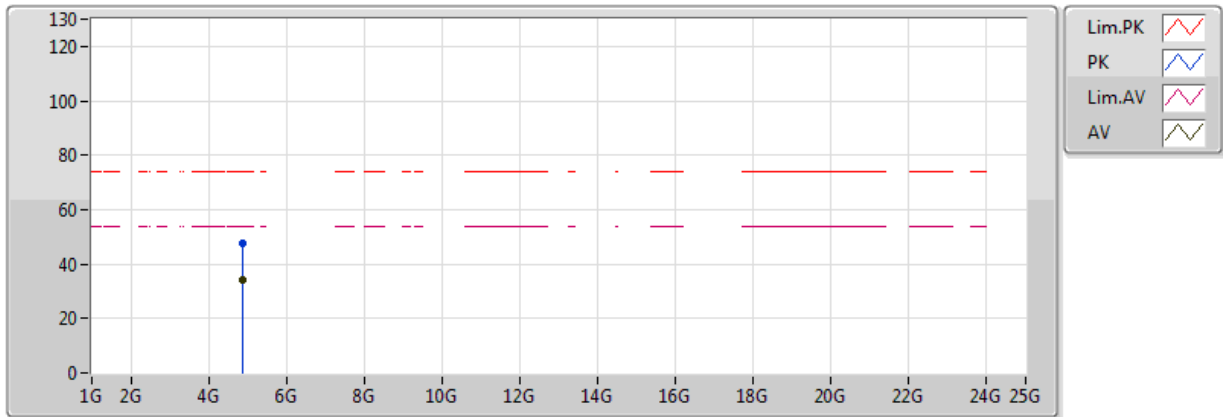


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	46.72	54.00	-7.28	30.38	3	Horizontal	194	1.72	-
AV	2.4346G	102.97	Inf	-Inf	30.53	3	Horizontal	194	1.72	-
AV	2.4998G	45.75	54.00	-8.25	30.75	3	Horizontal	194	1.72	-
PK	2.3894G	58.73	74.00	-15.27	30.37	3	Horizontal	194	1.72	-
PK	2.4346G	112.73	Inf	-Inf	30.53	3	Horizontal	194	1.72	-
PK	2.4906G	57.11	74.00	-16.89	30.72	3	Horizontal	194	1.72	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

28/07/2018

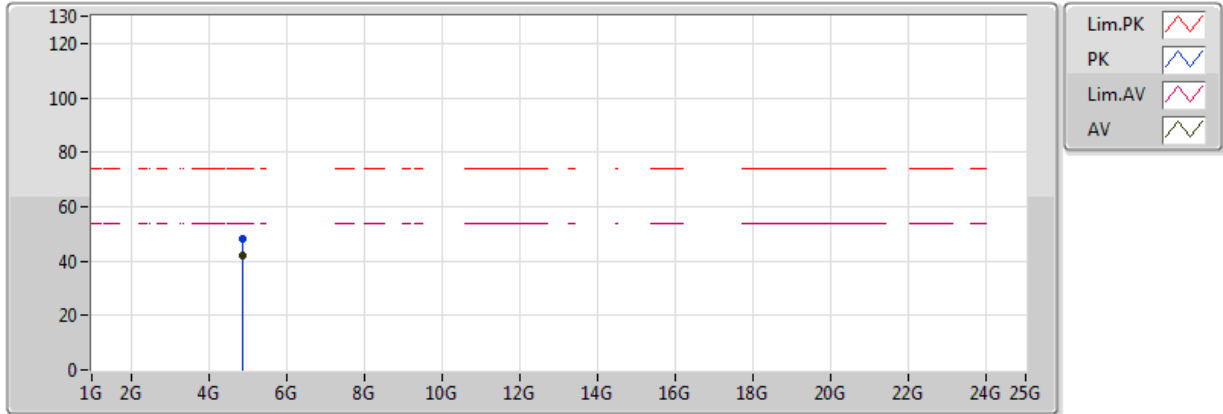


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87328G	34.08	54.00	-19.92	5.93	3	Vertical	34	1.46	-
PK	4.87766G	47.47	74.00	-26.53	5.94	3	Vertical	34	1.46	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

28/07/2018

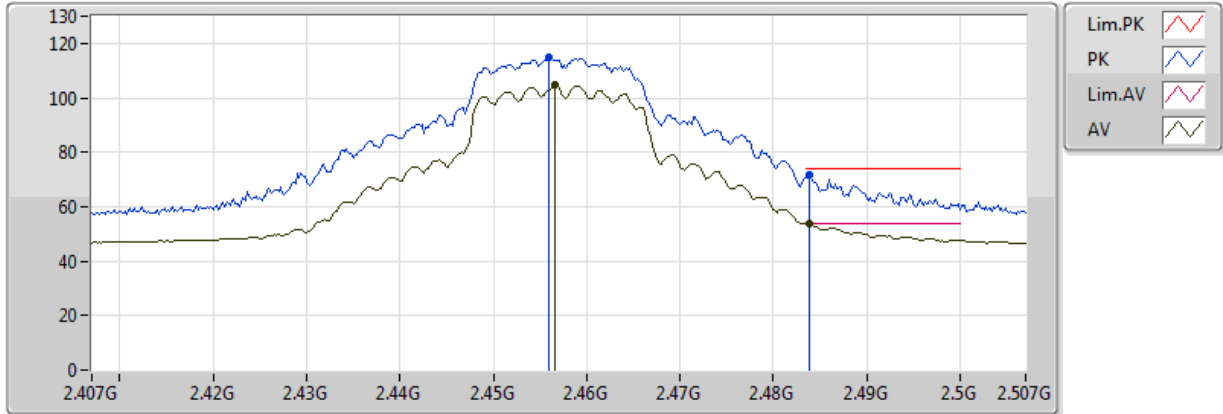


Type	Freq (Hz)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8875G	42.30	54.00	-11.70	5.96	3	Horizontal	150	1.75	-
PK	4.88756G	48.08	74.00	-25.92	5.96	3	Horizontal	150	1.75	-

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

29/07/2018

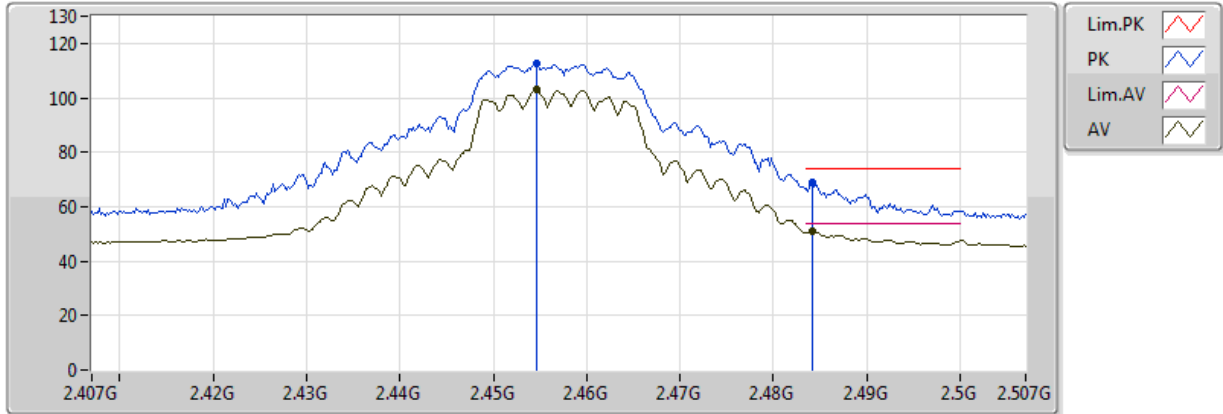


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4566G	104.62	Inf	-Inf	30.60	3	Vertical	259	2.59	-
AV	2.4838G	53.88	54.00	-0.12	30.69	3	Vertical	259	2.59	-
PK	2.456G	114.95	Inf	-Inf	30.60	3	Vertical	259	2.59	-
PK	2.4838G	71.94	74.00	-2.06	30.69	3	Vertical	259	2.59	-

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

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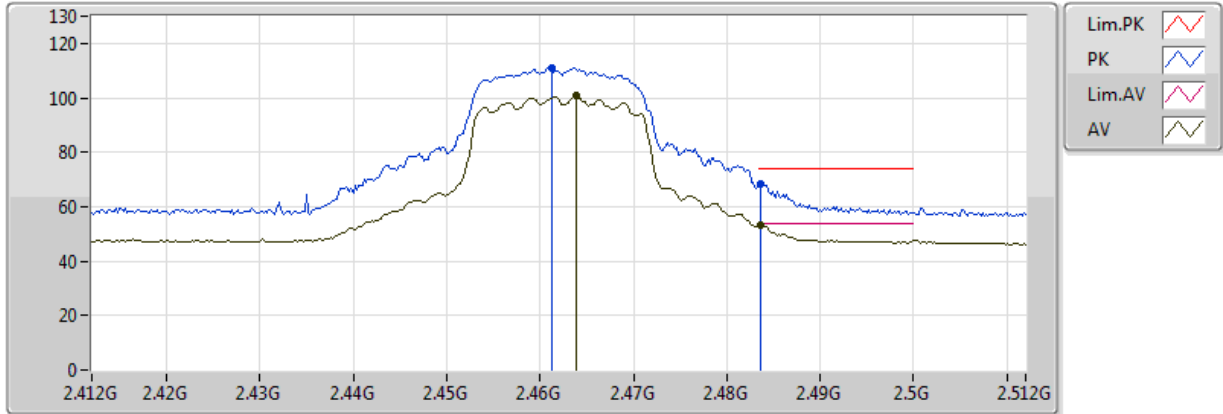


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4546G	102.95	Inf	-Inf	30.60	3	Horizontal	187	1.78	-
AV	2.4842G	51.23	54.00	-2.77	30.69	3	Horizontal	187	1.78	-
PK	2.4546G	112.42	Inf	-Inf	30.60	3	Horizontal	187	1.78	-
PK	2.4842G	69.14	74.00	-4.86	30.69	3	Horizontal	187	1.78	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

28/07/2018

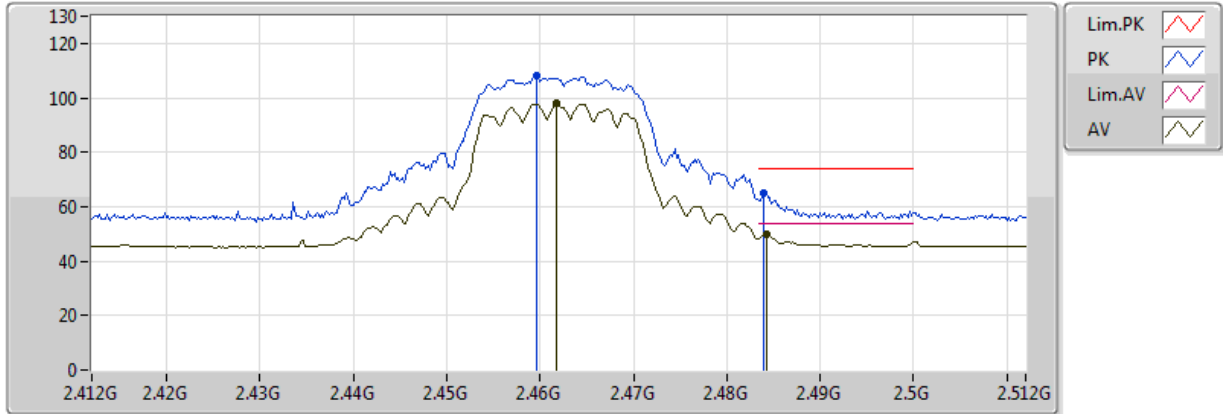


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4638G	100.61	Inf	-Inf	30.63	3	Vertical	260	2.52	-
AV	2.4836G	53.07	54.00	-0.93	30.69	3	Vertical	260	2.52	-
PK	2.4612G	111.03	Inf	-Inf	30.62	3	Vertical	260	2.52	-
PK	2.4836G	68.58	74.00	-5.42	30.69	3	Vertical	260	2.52	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

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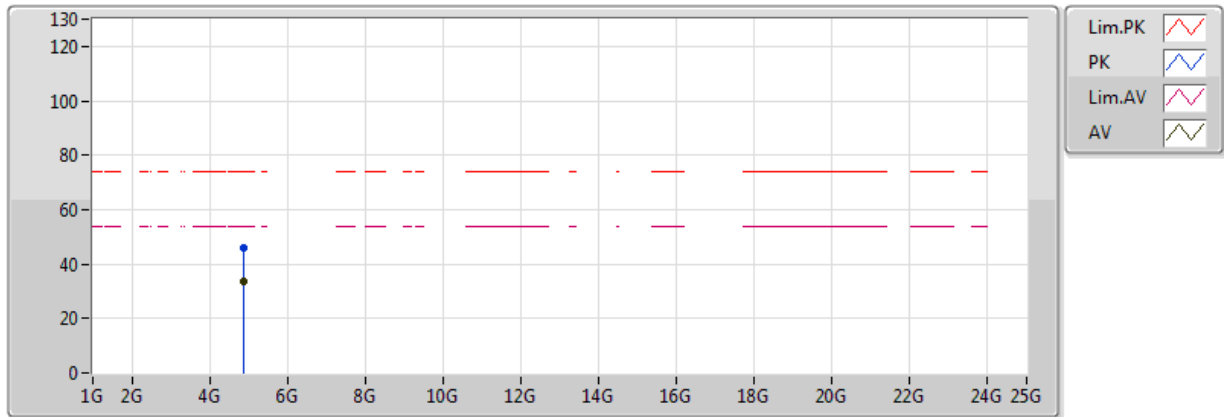


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4618G	97.80	Inf	-Inf	30.62	3	Horizontal	188	1.49	-
AV	2.4842G	49.77	54.00	-4.23	30.69	3	Horizontal	188	1.49	-
PK	2.4596G	107.98	Inf	-Inf	30.61	3	Horizontal	188	1.49	-
PK	2.484G	64.83	74.00	-9.17	30.69	3	Horizontal	188	1.49	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

28/07/2018

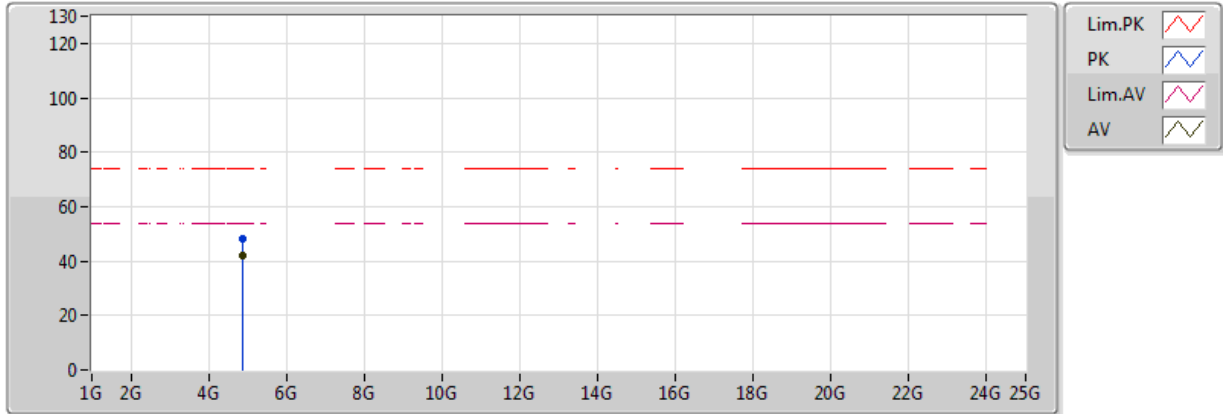


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.88762G	33.71	54.00	-20.29	5.96	3	Vertical	130	1.54	-
PK	4.88804G	45.74	74.00	-28.26	5.96	3	Vertical	130	1.54	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

28/07/2018

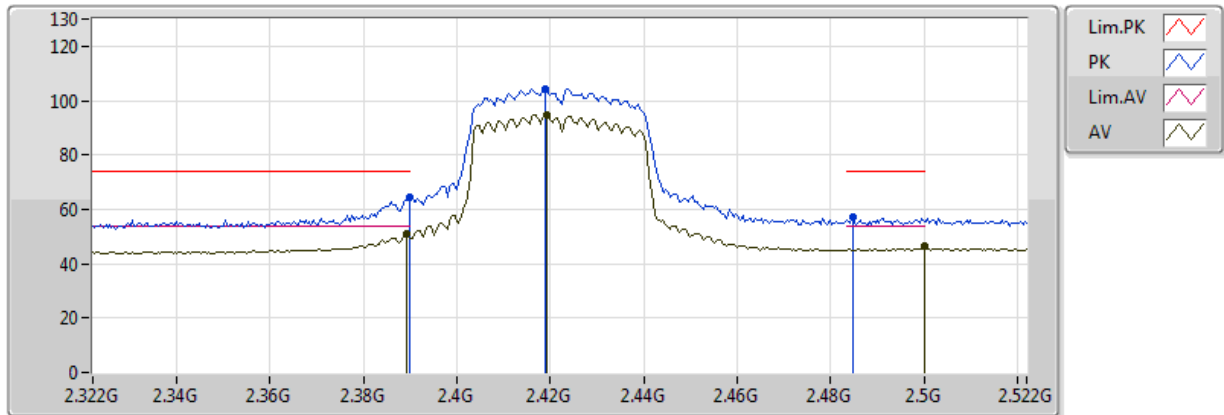


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8875G	42.26	54.00	-11.74	5.96	3	Horizontal	191	1.66	-
PK	4.88762G	48.38	74.00	-25.62	5.96	3	Horizontal	191	1.66	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

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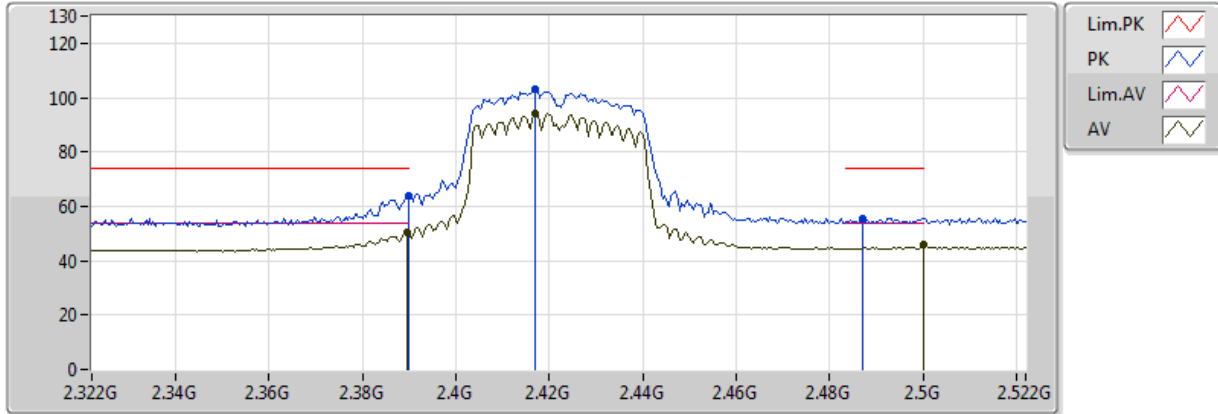


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3892G	50.80	54.00	-3.20	30.37	3	Vertical	258	2.56	-
AV	2.4192G	94.92	Inf	-Inf	30.48	3	Vertical	258	2.56	-
AV	2.499998G	46.72	54.00	-7.28	30.75	3	Vertical	258	2.56	-
PK	2.389998G	64.23	74.00	-9.77	30.38	3	Vertical	258	2.56	-
PK	2.4188G	104.48	Inf	-Inf	30.47	3	Vertical	258	2.56	-
PK	2.4848G	57.10	74.00	-16.90	30.69	3	Vertical	258	2.56	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

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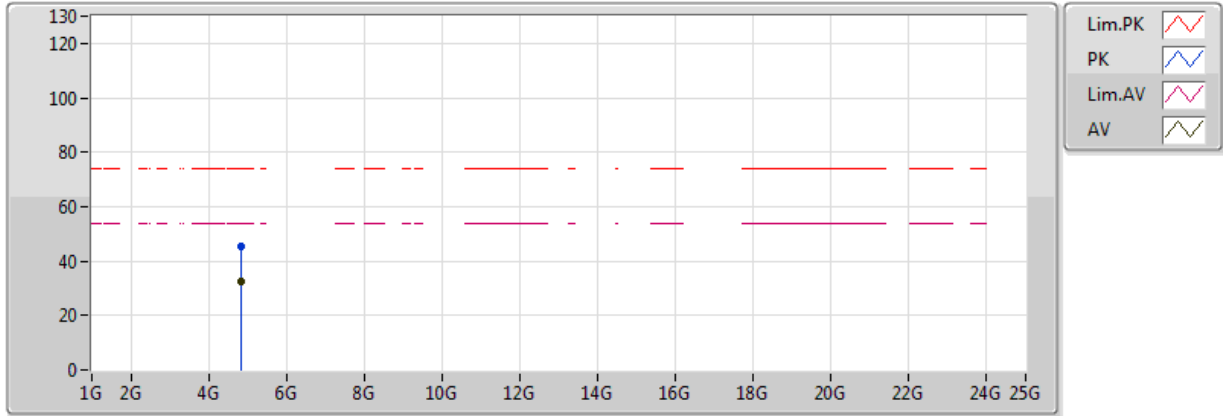


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3896G	50.51	54.00	-3.49	30.38	3	Horizontal	193	1.78	-
AV	2.4168G	93.97	Inf	-Inf	30.47	3	Horizontal	193	1.78	-
AV	2.499998G	45.96	54.00	-8.04	30.75	3	Horizontal	193	1.78	-
PK	2.389998G	63.66	74.00	-10.34	30.38	3	Horizontal	193	1.78	-
PK	2.4168G	103.05	Inf	-Inf	30.47	3	Horizontal	193	1.78	-
PK	2.4872G	55.59	74.00	-18.41	30.71	3	Horizontal	193	1.78	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

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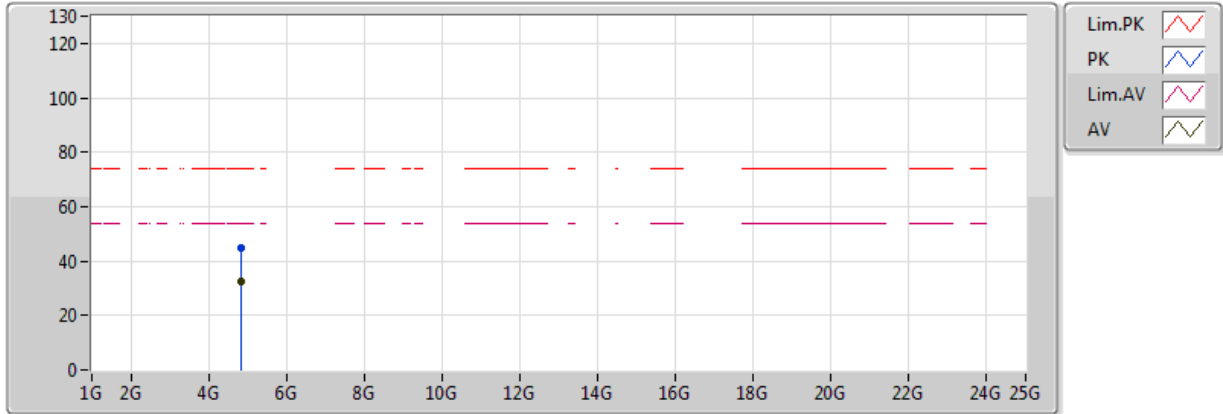


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.84448G	32.72	54.00	-21.28	5.87	3	Vertical	130	1.59	-
PK	4.83848G	45.26	74.00	-28.74	5.86	3	Vertical	130	1.59	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

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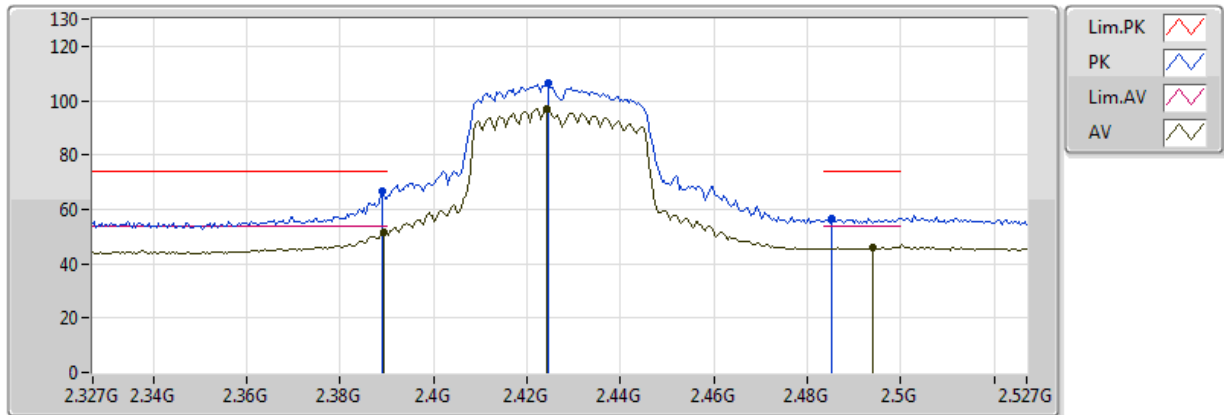


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.85528G	32.57	54.00	-21.43	5.90	3	Horizontal	188	2.21	-
PK	4.84868G	45.01	74.00	-28.99	5.88	3	Horizontal	188	2.21	-

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

29/07/2018

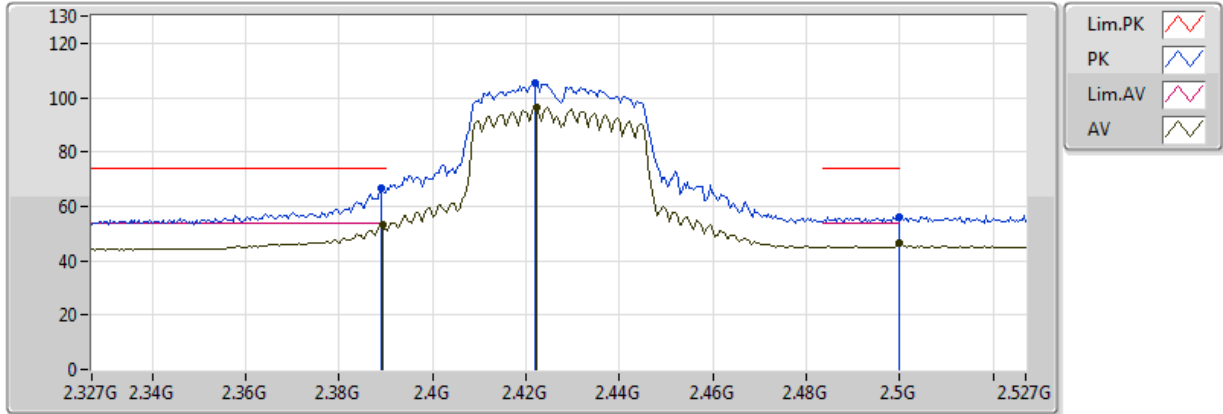


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	51.60	54.00	-2.40	30.37	3	Vertical	265	2.00	-
AV	2.4242G	97.10	Inf	-Inf	30.49	3	Vertical	265	2.00	-
AV	2.4942G	46.22	54.00	-7.78	30.73	3	Vertical	265	2.00	-
PK	2.389G	66.85	74.00	-7.15	30.37	3	Vertical	265	2.00	-
PK	2.4246G	106.22	Inf	-Inf	30.49	3	Vertical	265	2.00	-
PK	2.4854G	56.74	74.00	-17.26	30.70	3	Vertical	265	2.00	-

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

29/07/2018

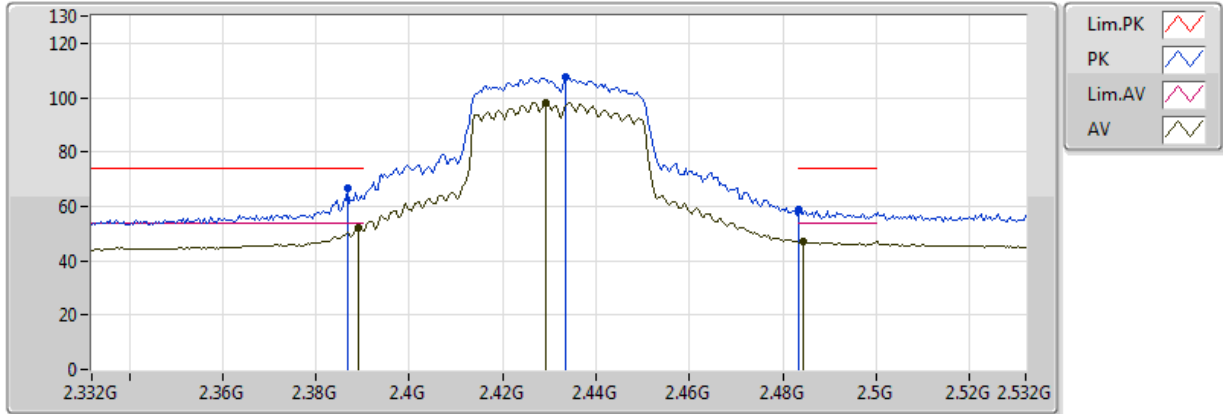


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	53.15	54.00	-0.85	30.37	3	Horizontal	188	1.81	-
AV	2.4222G	96.48	Inf	-Inf	30.49	3	Horizontal	188	1.81	-
AV	2.4998G	46.62	54.00	-7.38	30.75	3	Horizontal	188	1.81	-
PK	2.389G	66.86	74.00	-7.14	30.37	3	Horizontal	188	1.81	-
PK	2.4218G	105.54	Inf	-Inf	30.48	3	Horizontal	188	1.81	-
PK	2.4998G	56.13	74.00	-17.87	30.75	3	Horizontal	188	1.81	-

802.11n HT40_Nss1,(MCS0)_2TX

2432MHz_TX

29/07/2018

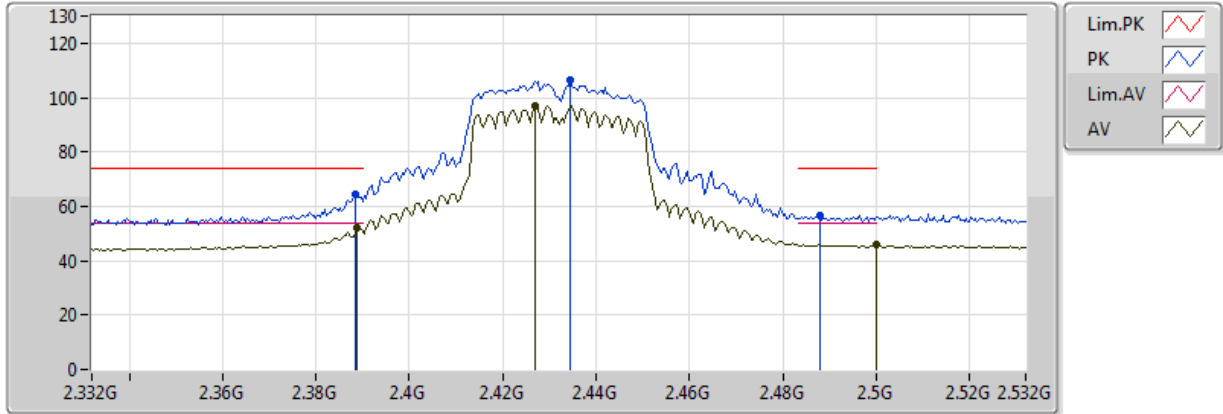


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3892G	52.11	54.00	-1.89	30.37	3	Vertical	265	2.35	-
AV	2.4292G	98.21	Inf	-Inf	30.51	3	Vertical	265	2.35	-
AV	2.4844G	46.97	54.00	-7.03	30.69	3	Vertical	265	2.35	-
PK	2.3868G	66.65	74.00	-7.35	30.37	3	Vertical	265	2.35	-
PK	2.4336G	107.59	Inf	-Inf	30.52	3	Vertical	265	2.35	-
PK	2.483502G	58.56	74.00	-15.44	30.69	3	Vertical	265	2.35	-

802.11n HT40_Nss1,(MCS0)_2TX

2432MHz_TX

29/07/2018

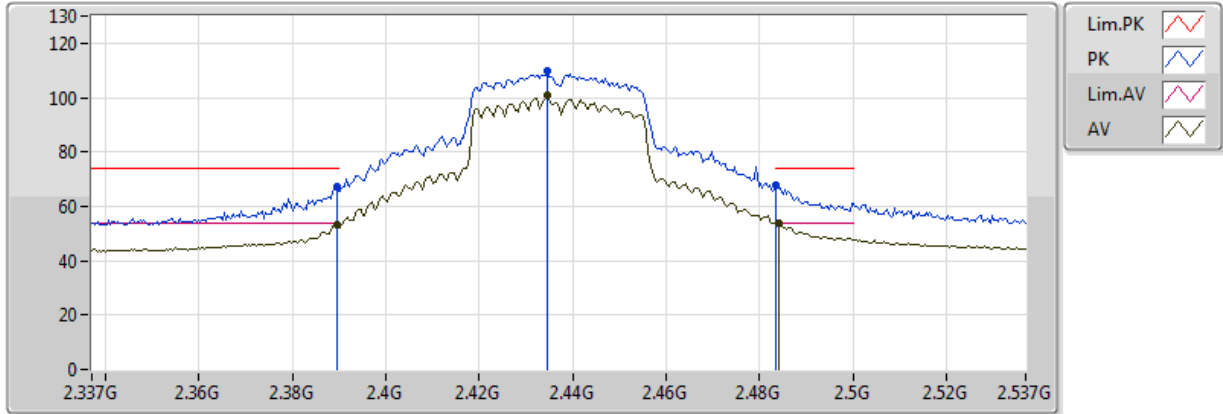


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3888G	52.13	54.00	-1.87	30.37	3	Horizontal	193	1.72	-
AV	2.4268G	96.77	Inf	-Inf	30.50	3	Horizontal	193	1.72	-
AV	2.499998G	46.02	54.00	-7.98	30.75	3	Horizontal	193	1.72	-
PK	2.3884G	64.69	74.00	-9.31	30.37	3	Horizontal	193	1.72	-
PK	2.4344G	106.50	Inf	-Inf	30.53	3	Horizontal	193	1.72	-
PK	2.488G	56.61	74.00	-17.39	30.71	3	Horizontal	193	1.72	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

28/07/2018

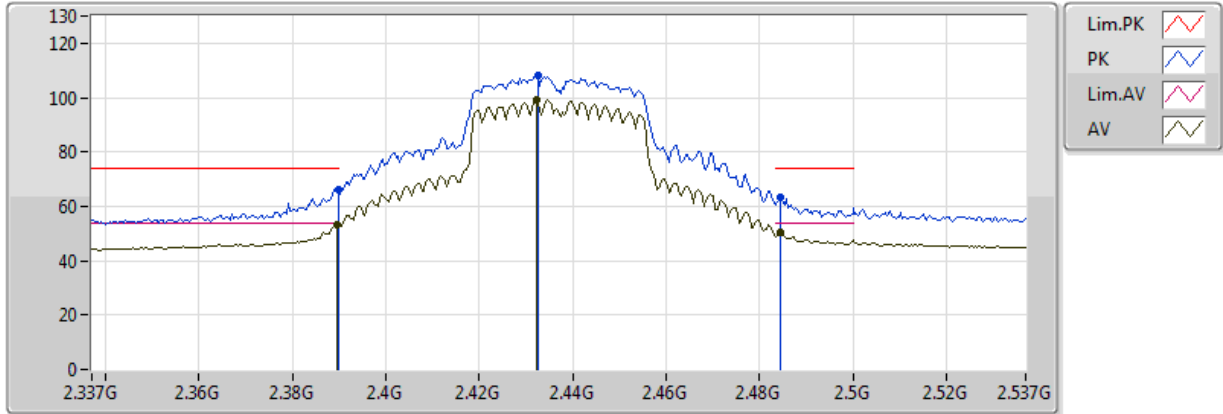


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	53.03	54.00	-0.97	30.37	3	Vertical	263	2.39	-
AV	2.4346G	100.85	Inf	-Inf	30.53	3	Vertical	263	2.39	-
AV	2.4842G	53.65	54.00	-0.35	30.69	3	Vertical	263	2.39	-
PK	2.3894G	67.20	74.00	-6.80	30.37	3	Vertical	263	2.39	-
PK	2.4346G	110.01	Inf	-Inf	30.53	3	Vertical	263	2.39	-
PK	2.483502G	67.84	74.00	-6.16	30.69	3	Vertical	263	2.39	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

28/07/2018

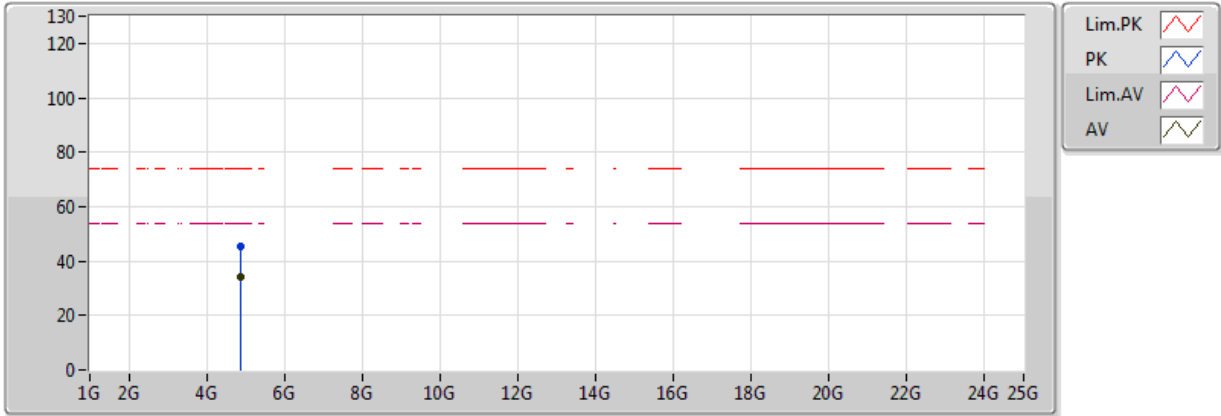


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	53.15	54.00	-0.85	30.37	3	Horizontal	187	1.58	-
AV	2.4322G	99.15	Inf	-Inf	30.52	3	Horizontal	187	1.58	-
AV	2.4846G	50.37	54.00	-3.63	30.69	3	Horizontal	187	1.58	-
PK	2.3898G	66.24	74.00	-7.76	30.38	3	Horizontal	187	1.58	-
PK	2.4326G	108.13	Inf	-Inf	30.52	3	Horizontal	187	1.58	-
PK	2.4846G	63.04	74.00	-10.96	30.69	3	Horizontal	187	1.58	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

28/07/2018

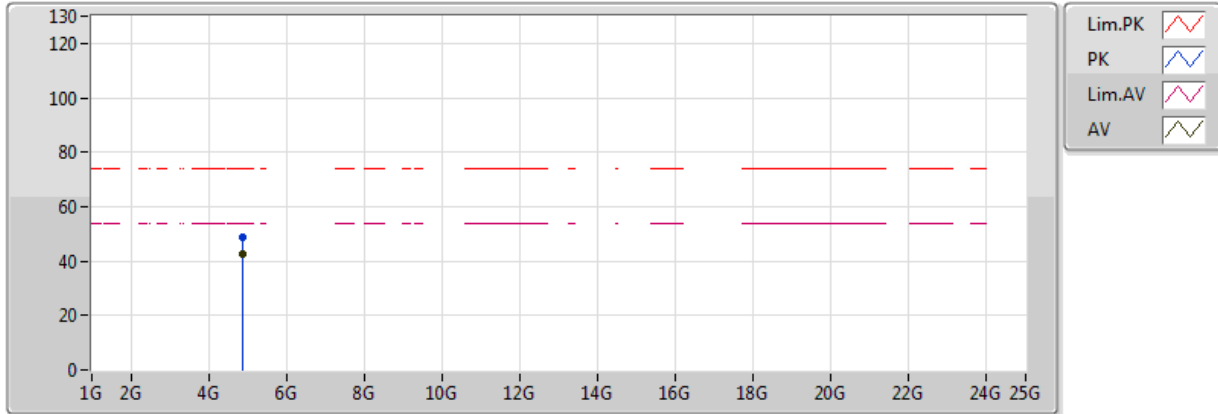


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8875G	34.16	54.00	-19.84	5.96	3	Vertical	168	1.77	-
PK	4.8773G	45.21	74.00	-28.79	5.94	3	Vertical	168	1.77	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

28/07/2018

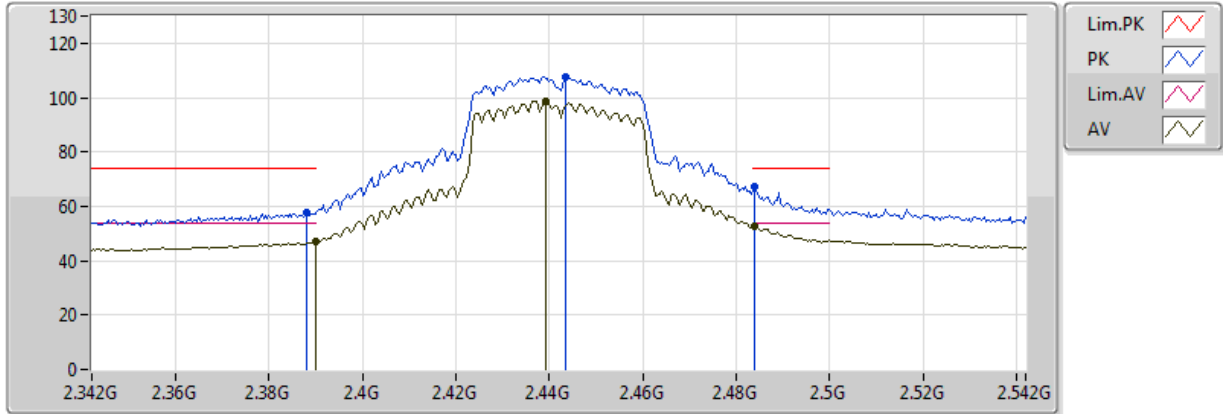


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.88756G	42.50	54.00	-11.50	5.96	3	Horizontal	45	1.63	-
PK	4.8875G	48.47	74.00	-25.53	5.96	3	Horizontal	45	1.63	-

802.11n HT40_Nss1,(MCS0)_2TX

2442MHz_TX

29/07/2018

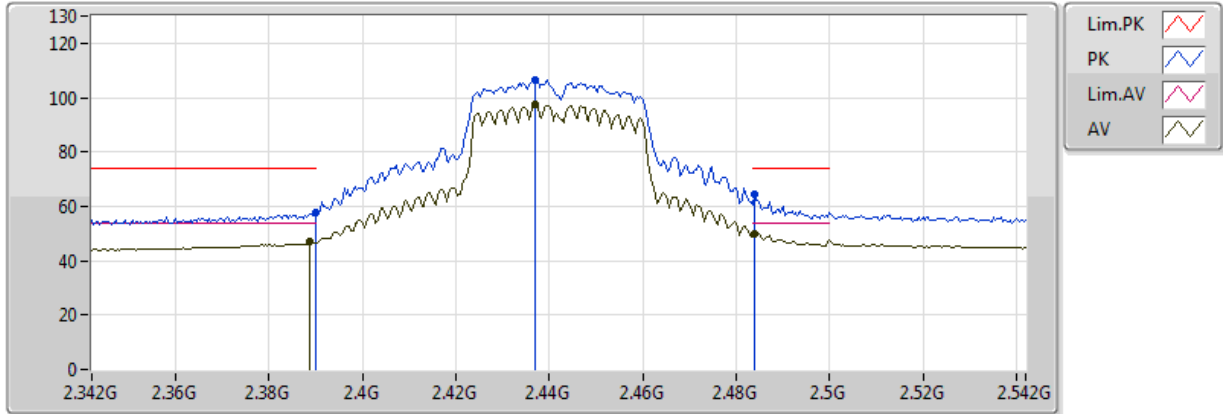


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	46.83	54.00	-7.17	30.38	3	Vertical	252	2.26	-
AV	2.4392G	98.66	Inf	-Inf	30.54	3	Vertical	252	2.26	-
AV	2.484G	52.70	54.00	-1.30	30.69	3	Vertical	252	2.26	-
PK	2.388G	57.59	74.00	-16.41	30.37	3	Vertical	252	2.26	-
PK	2.4436G	107.45	Inf	-Inf	30.56	3	Vertical	252	2.26	-
PK	2.484G	67.01	74.00	-6.99	30.69	3	Vertical	252	2.26	-

802.11n HT40_Nss1,(MCS0)_2TX

2442MHz_TX

29/07/2018

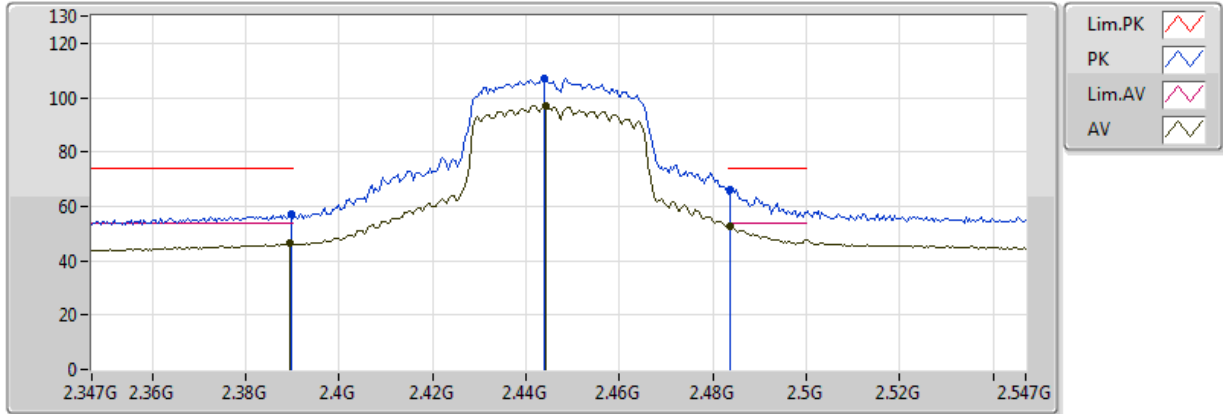


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3888G	47.06	54.00	-6.94	30.37	3	Horizontal	186	1.58	-
AV	2.4368G	97.42	Inf	-Inf	30.54	3	Horizontal	186	1.58	-
AV	2.484G	50.03	54.00	-3.97	30.69	3	Horizontal	186	1.58	-
PK	2.389998G	57.50	74.00	-16.50	30.38	3	Horizontal	186	1.58	-
PK	2.4368G	106.52	Inf	-Inf	30.54	3	Horizontal	186	1.58	-
PK	2.484G	64.59	74.00	-9.41	30.69	3	Horizontal	186	1.58	-

802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

29/07/2018

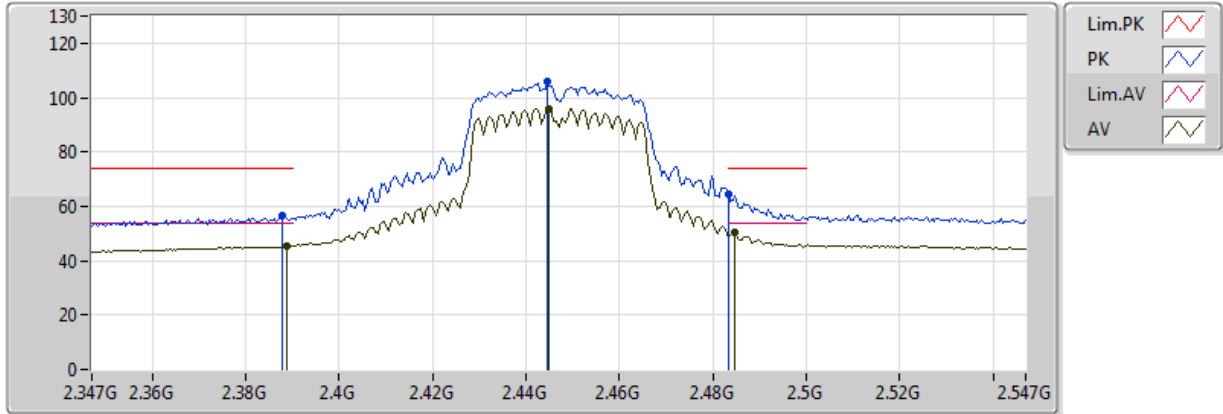


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	46.34	54.00	-7.66	30.37	3	Vertical	270	2.27	-
AV	2.4442G	97.14	Inf	-Inf	30.56	3	Vertical	270	2.27	-
AV	2.4838G	52.79	54.00	-1.21	30.69	3	Vertical	270	2.27	-
PK	2.3898G	56.93	74.00	-17.07	30.38	3	Vertical	270	2.27	-
PK	2.4438G	107.27	Inf	-Inf	30.56	3	Vertical	270	2.27	-
PK	2.4838G	66.32	74.00	-7.68	30.69	3	Vertical	270	2.27	-

802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

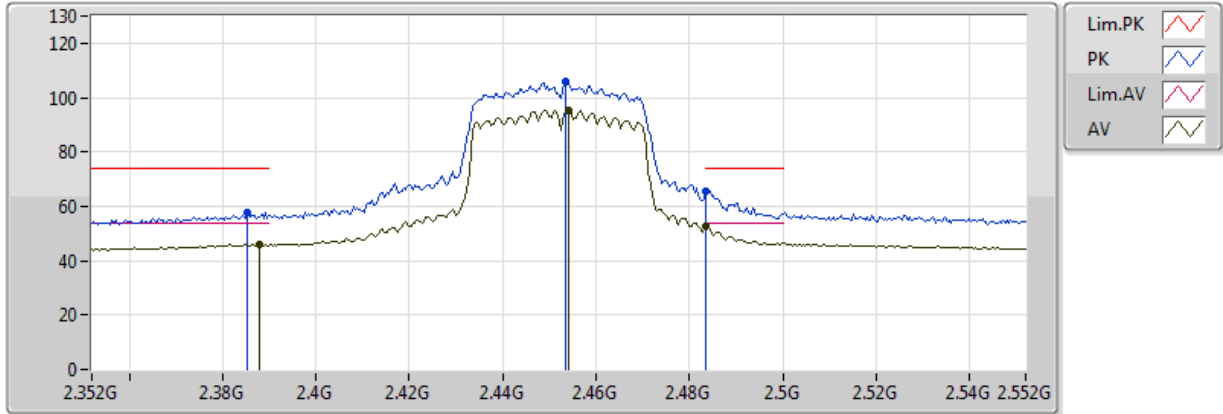
29/07/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3886G	45.41	54.00	-8.59	30.37	3	Horizontal	204	1.57	-
AV	2.445G	96.05	Inf	-Inf	30.56	3	Horizontal	204	1.57	-
AV	2.4846G	50.35	54.00	-3.65	30.69	3	Horizontal	204	1.57	-
PK	2.3878G	56.32	74.00	-17.68	30.37	3	Horizontal	204	1.57	-
PK	2.4446G	106.02	Inf	-Inf	30.56	3	Horizontal	204	1.57	-
PK	2.483502G	64.42	74.00	-9.58	30.69	3	Horizontal	204	1.57	-

**802.11n HT40_Nss1,(MCS0)_2TX
2452MHz_TX**

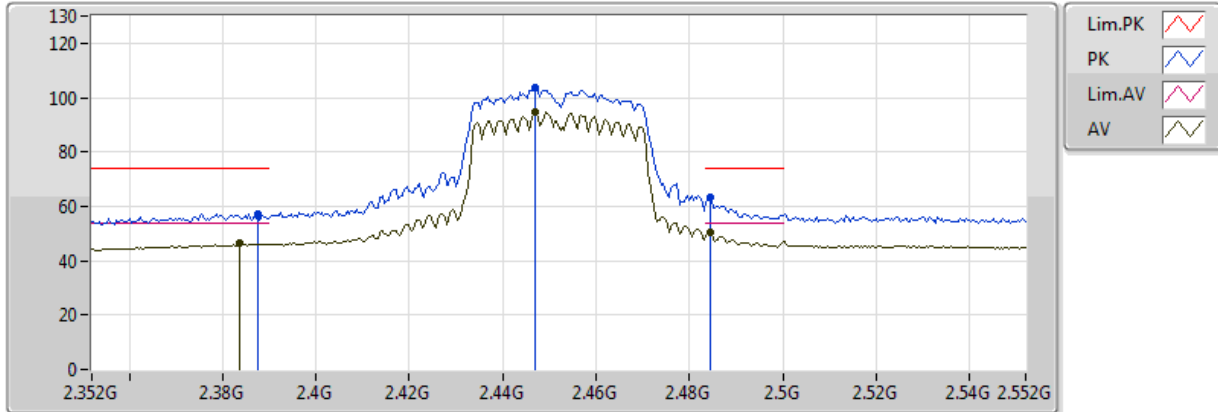
28/07/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.388G	45.91	54.00	-8.09	30.37	3	Vertical	264	2.58	-
AV	2.454G	95.44	Inf	-Inf	30.59	3	Vertical	264	2.58	-
AV	2.483502G	52.57	54.00	-1.43	30.69	3	Vertical	264	2.58	-
PK	2.3852G	57.70	74.00	-16.30	30.36	3	Vertical	264	2.58	-
PK	2.4536G	105.66	Inf	-Inf	30.59	3	Vertical	264	2.58	-
PK	2.483502G	65.64	74.00	-8.36	30.69	3	Vertical	264	2.58	-

**802.11n HT40_Nss1,(MCS0)_2TX
2452MHz_TX**

28/07/2018

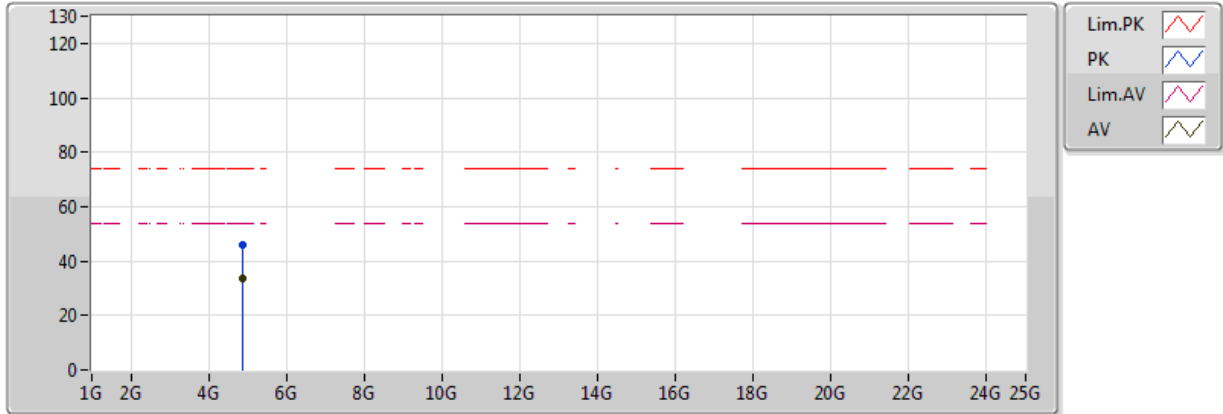


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3836G	46.23	54.00	-7.77	30.36	3	Horizontal	187	1.78	-
AV	2.4468G	94.67	Inf	-Inf	30.57	3	Horizontal	187	1.78	-
AV	2.4844G	50.55	54.00	-3.45	30.69	3	Horizontal	187	1.78	-
PK	2.3876G	57.16	74.00	-16.84	30.37	3	Horizontal	187	1.78	-
PK	2.4468G	103.44	Inf	-Inf	30.57	3	Horizontal	187	1.78	-
PK	2.4844G	63.47	74.00	-10.53	30.69	3	Horizontal	187	1.78	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

28/07/2018

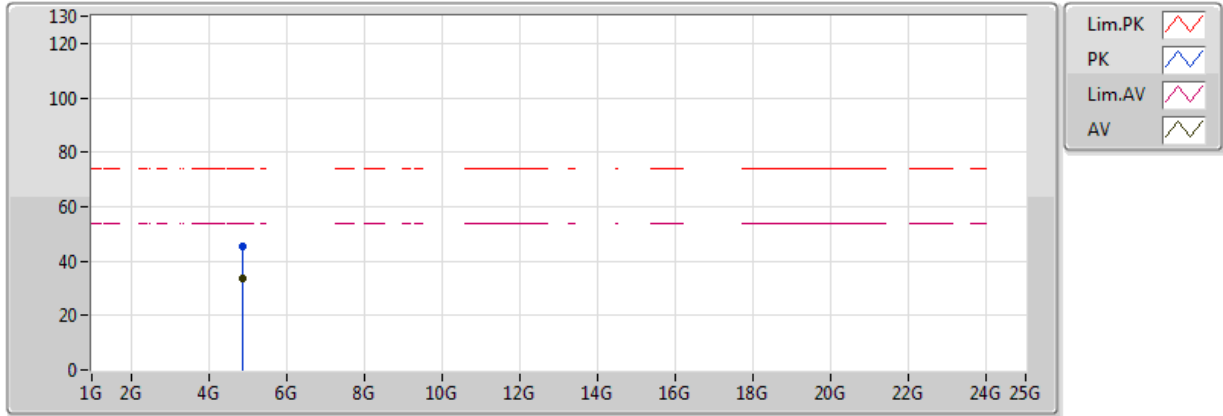


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8902G	33.72	54.00	-20.28	5.97	3	Vertical	85	1.55	-
PK	4.889G	45.73	74.00	-28.27	5.97	3	Vertical	85	1.55	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

28/07/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.88972G	33.64	54.00	-20.36	5.97	3	Horizontal	134	2.31	-
PK	4.89236G	45.17	74.00	-28.83	5.97	3	Horizontal	134	2.31	-