



FCC Test Report

FCC ID : SWX-UDIMAC
Equipment : UniFi DIMMER
Brand Name : UBIQUITI
Model Name : UDIM-AC
Applicant / 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 Jul. 24, 2018, and testing was started from Jul. 28, 2018 and completed on Aug. 23, 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 V01



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: Debby Hung



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	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX

Note:

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

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector
1	1	-	-	PCB Antenna	I-PEX

Gain(dBi)	
2.4G	BT
4	3.5

For 2.4 GHz function:

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

Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.

For Bluetooth function:

For Bluetooth mode (1TX/1RX)

Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.



1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Main			
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	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT20	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)



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 v04

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
RF Conducted	TH01-HY	Andy	24.6°C / 63.7%	31/Jul/2018
Radiated <9k-30M>	03CH09-HY	Jerry	24.8°C / 57%	23/Aug/2018
Radiated <30M-1G>	03CH09-HY	Jerry	25.5°C / 55%	28/Jul/2018
AC Conduction	CO04-HY	Jeremy	20.1°C / 65%	02/Aug/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	Dos
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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		



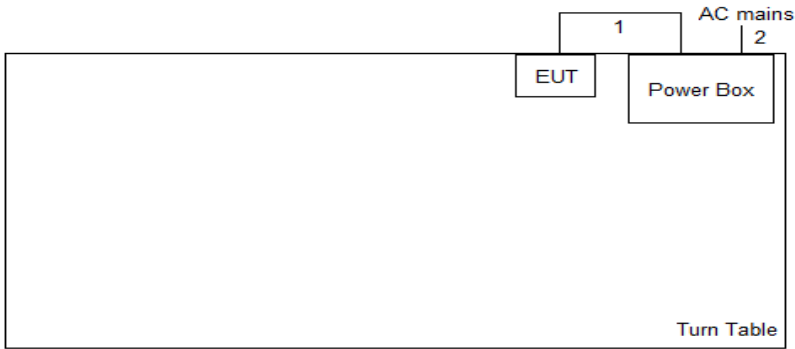
The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz
Refer to Sporton Test Report No.: FA7N0734-03 for Co-location RF Exposure Evaluation.	

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 Source	GW	APS-9102	-

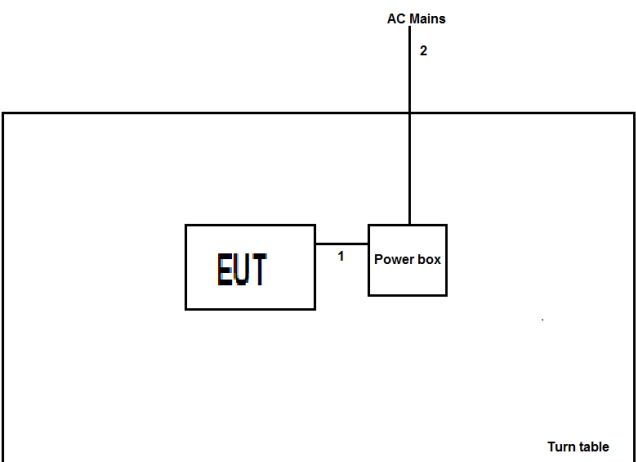
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	0.65	-
2	AC Power line	No	1.5	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	0.65	-
2	AC Power line	No	2.0	-

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.

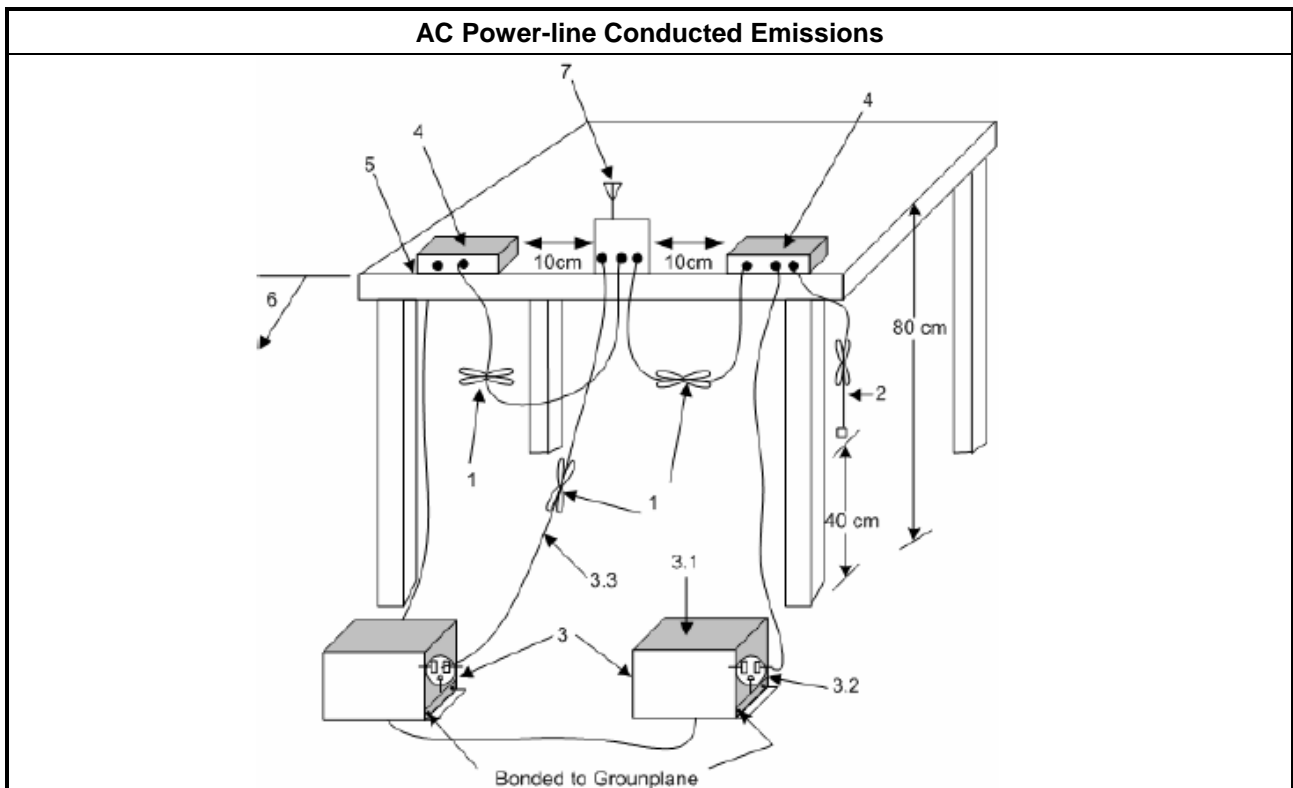
3.1.2 Measuring Instruments

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.

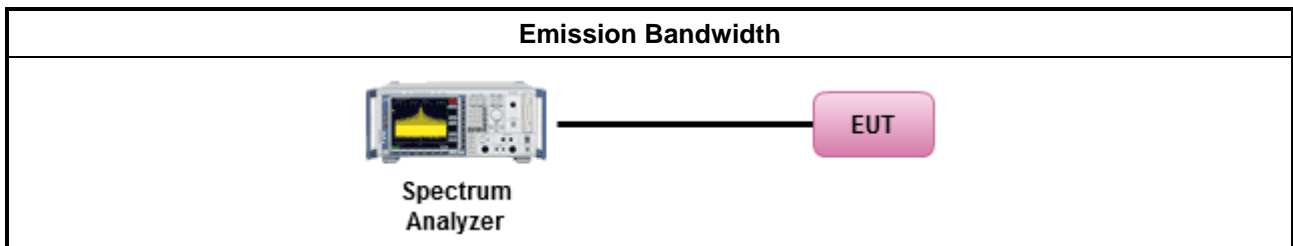
3.2.2 Measuring Instruments

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 8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/>	Refer as RSS-Gen, clause 6.7 for for occupied bandwidth testing.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

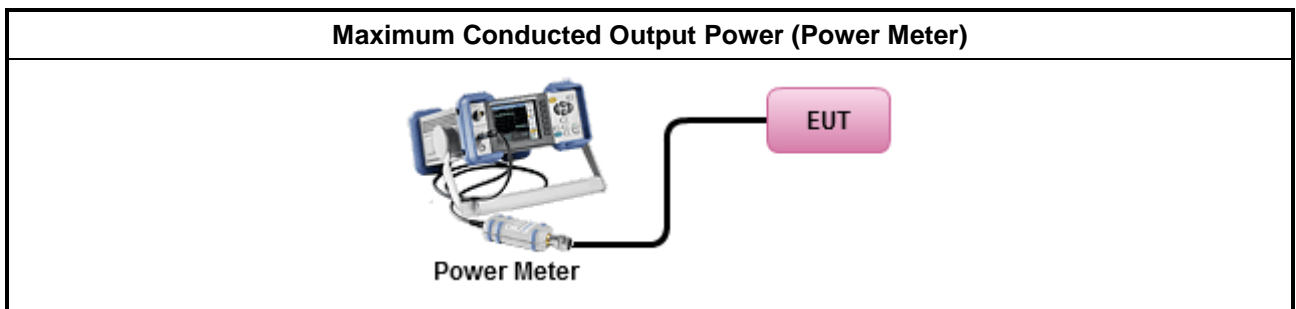
3.3.2 Measuring Instruments

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 9.1.1 Option 1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as KDB 558074, clause 9.1.2 Option 2 (integrated band power method)
<input type="checkbox"/>	Refer as KDB 558074, clause 9.1.3 Option 3 (peak power meter for VBW ≥ DTS BW)
<ul style="list-style-type: none"> Maximum Average Conducted Output Power 	
Duty cycle ≥ 98%	
<input type="checkbox"/>	Refer as KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
Duty cycle < 98%	
<input type="checkbox"/>	Refer as KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
RF power meter and average over on/off periods with duty factor or gated trigger	
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 9.2.3.1 Method AVGPM (using an RF average 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

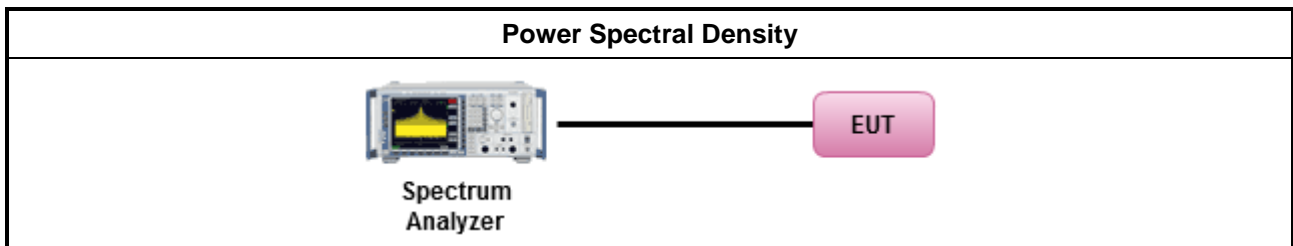
3.4.2 Measuring Instruments

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 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).
<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.

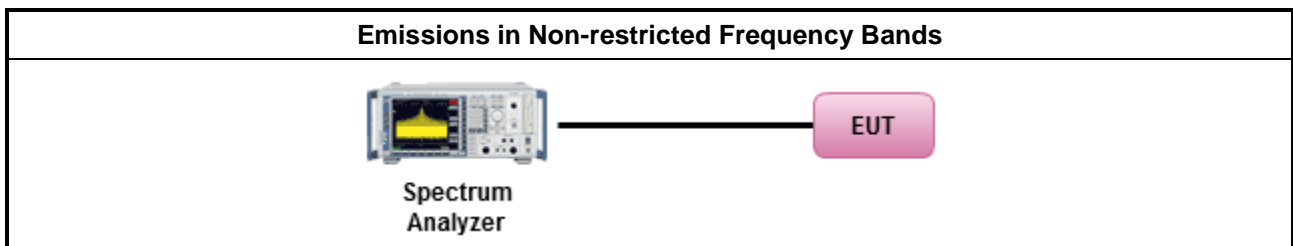
3.5.2 Measuring Instruments

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 11 for unwanted emissions into non-restricted 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

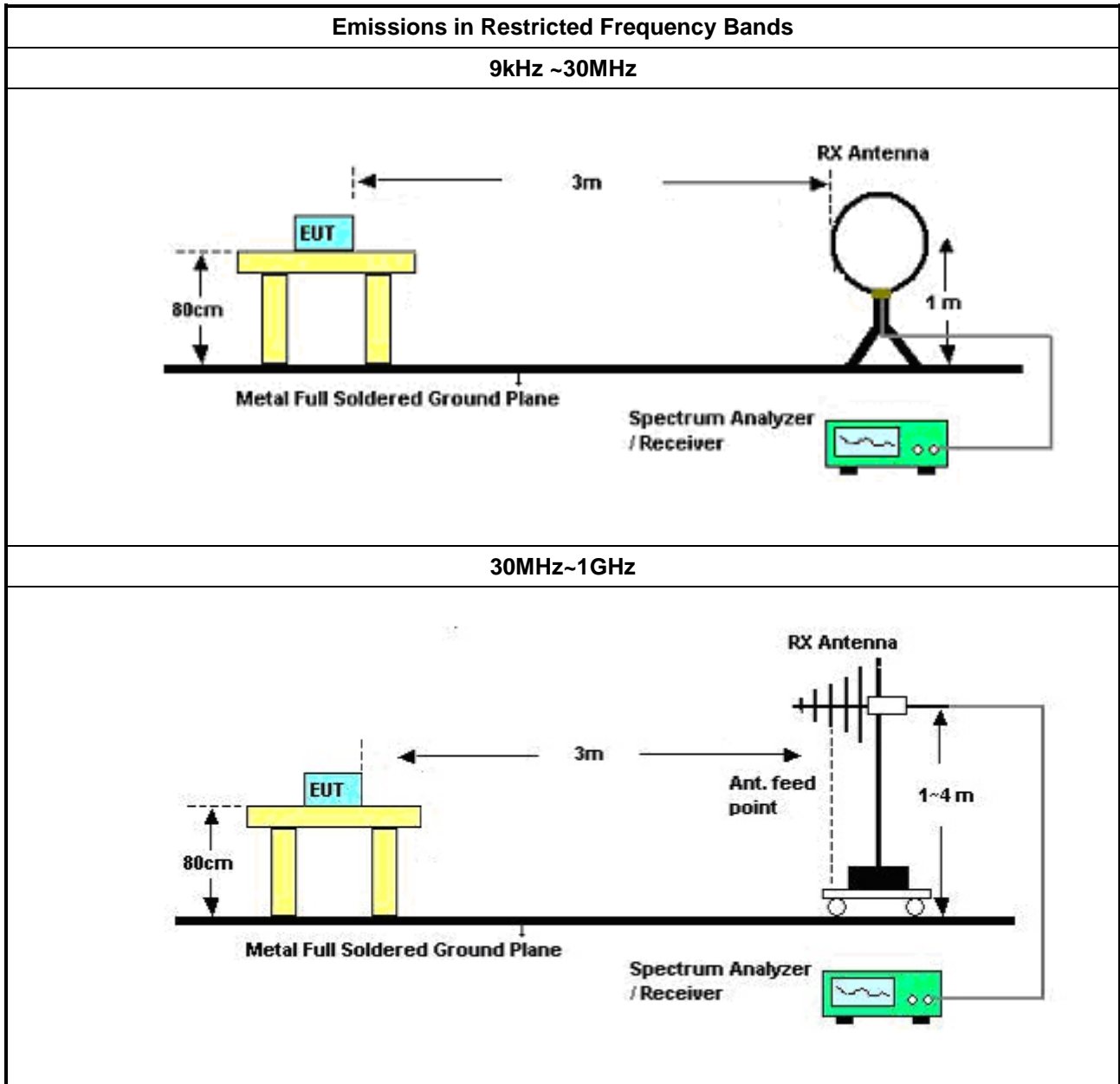
Refer a test equipment and calibration data table in this test report.

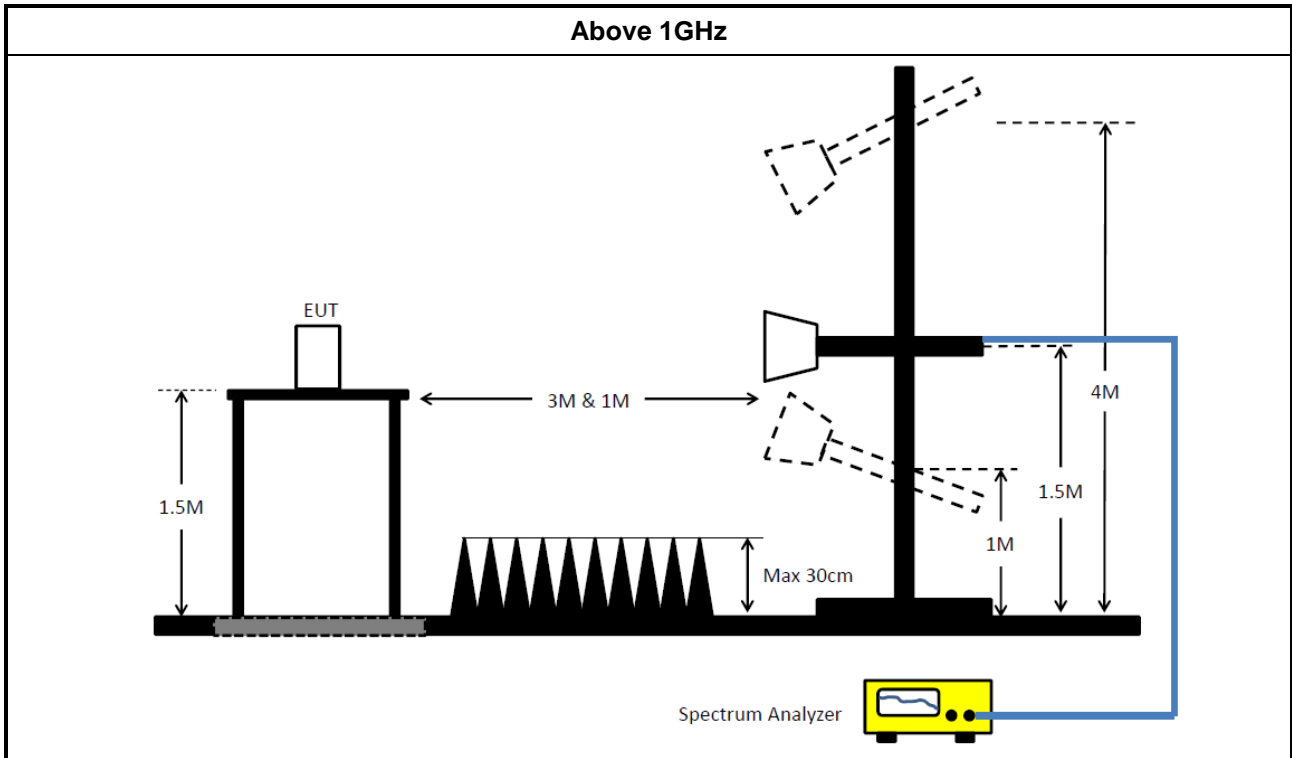


3.6.3 Test Procedures

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 12 for unwanted emissions into restricted bands. 	
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Refer as KDB 558074, clause 12.2.5.3 (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW\geq1/T. 	
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Refer as KDB 558074, clause 12.2.4 measurement procedure peak limit. 	
<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 13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below. 	
<ul style="list-style-type: none"> Refer as KDB 558074, clause 13.2 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements. 	
<ul style="list-style-type: none"> Refer as KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz). 	
<ul style="list-style-type: none"> For conducted and cabinet radiation measurement, refer as KDB 558074, clause 12.2.2. 	
<ul style="list-style-type: none"> For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB 	
<ul style="list-style-type: none"> For KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred. 	

3.6.4 Test Setup





3.6.5 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	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	0761183202000 1	9kHz ~ 30MHz	06/Oct/2017	05/Oct/2018
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Puls e Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2017	11/Oct/2018

NCR : Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	23/Apr/2018	22/Apr/2019
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	14/Jun/2018	13/Jun/2019
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	10/May/2018	09/May/2019
Amplifier	EMC	EMC9135	980232	9KHz~1GHz	27/Apr/2018	26/Apr/2019
EXA Signal Analyzer	KEYSIGHT	N9010A	SG56070103	10Hz ~ 44GHz	15/Dec/2016	14/Dec/2018
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	09/Sep/2017	08/Sep/2018
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	30/Apr/2018	29/Apr/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	18GHz~40GHz	09/Feb/2018	08/Feb/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019
RF Cable-R03m	Jye Bao	RG142	CB031	9kHz ~ 1GHz	1/Feb/2018	31/Jan/2019
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz ~ 40GHz	14/Mar/2018	13/Mar/2019



Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	05/Feb/2018	04/Feb/2019
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
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-1m	HUBER+SUHNER	SUCOFLEX_104	MY38490/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	26/Jul/2018	25/Jul/2019

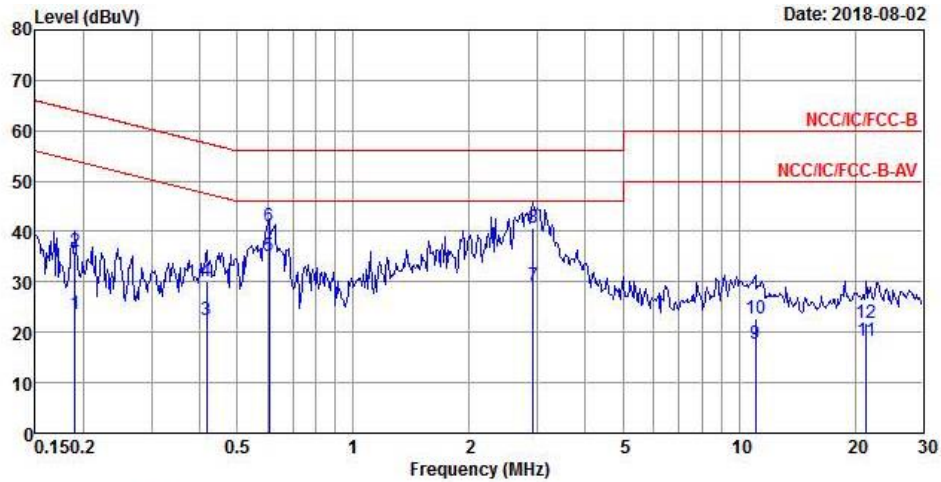


AC Power-line Conducted Emissions Result																																																																																																																																	
Operating Mode	1	Power Phase	Neutral																																																																																																																														
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<p style="text-align: right; font-size: small;">Date: 2018-08-02</p>																																																																																																																																	
<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th></th> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Limit Line</th> <th>Read Level</th> <th>LISN Factor</th> <th>Cable Loss</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV</th> <th>dB</th> <th>dBuV</th> <th>dBuV</th> <th>dB</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td>0.19</td><td>22.75</td><td>-31.27</td><td>54.02</td><td>13.12</td><td>9.62</td><td>0.01</td><td>Average</td></tr> <tr><td>2</td><td>0.19</td><td>33.79</td><td>-30.23</td><td>64.02</td><td>24.16</td><td>9.62</td><td>0.01</td><td>QP</td></tr> <tr><td>3</td><td>0.44</td><td>26.64</td><td>-20.34</td><td>46.98</td><td>16.94</td><td>9.61</td><td>0.09</td><td>Average</td></tr> <tr><td>4</td><td>0.44</td><td>39.37</td><td>-17.61</td><td>56.98</td><td>29.67</td><td>9.61</td><td>0.09</td><td>QP</td></tr> <tr style="background-color: #e0e0e0;"><td>5 MAX</td><td>0.60</td><td>39.73</td><td>-6.27</td><td>46.00</td><td>30.06</td><td>9.61</td><td>0.06</td><td>Average</td></tr> <tr><td>6</td><td>0.60</td><td>49.73</td><td>-6.27</td><td>56.00</td><td>40.06</td><td>9.61</td><td>0.06</td><td>QP</td></tr> <tr><td>7</td><td>1.64</td><td>27.88</td><td>-18.12</td><td>46.00</td><td>18.25</td><td>9.63</td><td>0.00</td><td>Average</td></tr> <tr><td>8</td><td>1.64</td><td>38.10</td><td>-17.90</td><td>56.00</td><td>28.47</td><td>9.63</td><td>0.00</td><td>QP</td></tr> <tr><td>9</td><td>2.93</td><td>33.17</td><td>-12.83</td><td>46.00</td><td>23.48</td><td>9.64</td><td>0.05</td><td>Average</td></tr> <tr><td>10</td><td>2.93</td><td>45.85</td><td>-10.15</td><td>56.00</td><td>36.16</td><td>9.64</td><td>0.05</td><td>QP</td></tr> <tr><td>11</td><td>10.23</td><td>21.72</td><td>-28.28</td><td>50.00</td><td>11.84</td><td>9.69</td><td>0.19</td><td>Average</td></tr> <tr><td>12</td><td>10.23</td><td>25.86</td><td>-34.14</td><td>60.00</td><td>15.98</td><td>9.69</td><td>0.19</td><td>QP</td></tr> </tbody> </table>					Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark		MHz	dBuV	dB	dBuV	dBuV	dB	dB		1	0.19	22.75	-31.27	54.02	13.12	9.62	0.01	Average	2	0.19	33.79	-30.23	64.02	24.16	9.62	0.01	QP	3	0.44	26.64	-20.34	46.98	16.94	9.61	0.09	Average	4	0.44	39.37	-17.61	56.98	29.67	9.61	0.09	QP	5 MAX	0.60	39.73	-6.27	46.00	30.06	9.61	0.06	Average	6	0.60	49.73	-6.27	56.00	40.06	9.61	0.06	QP	7	1.64	27.88	-18.12	46.00	18.25	9.63	0.00	Average	8	1.64	38.10	-17.90	56.00	28.47	9.63	0.00	QP	9	2.93	33.17	-12.83	46.00	23.48	9.64	0.05	Average	10	2.93	45.85	-10.15	56.00	36.16	9.64	0.05	QP	11	10.23	21.72	-28.28	50.00	11.84	9.69	0.19	Average	12	10.23	25.86	-34.14	60.00	15.98	9.69	0.19	QP
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark																																																																																																																									
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<p>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.)</p>																																																																																																																																	



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Switching Power Supply mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.19	23.53	-30.49	54.02	13.90	9.62	0.01	Average
2	0.19	35.91	-28.11	64.02	26.28	9.62	0.01	QP
3	0.42	22.55	-24.96	47.51	12.84	9.61	0.10	Average
4	0.42	30.10	-27.41	57.51	20.39	9.61	0.10	QP
5 MAX	0.60	35.01	-10.99	46.00	25.34	9.61	0.06	Average
6	0.60	41.14	-14.86	56.00	31.47	9.61	0.06	QP
7	2.93	29.16	-16.84	46.00	19.48	9.63	0.05	Average
8	2.93	40.85	-15.15	56.00	31.17	9.63	0.05	QP
9	11.02	17.76	-32.24	50.00	7.96	9.65	0.15	Average
10	11.02	22.72	-37.28	60.00	12.92	9.65	0.15	QP
11	21.37	18.16	-31.84	50.00	8.42	9.60	0.14	Average
12	21.37	21.70	-38.30	60.00	11.96	9.60	0.14	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

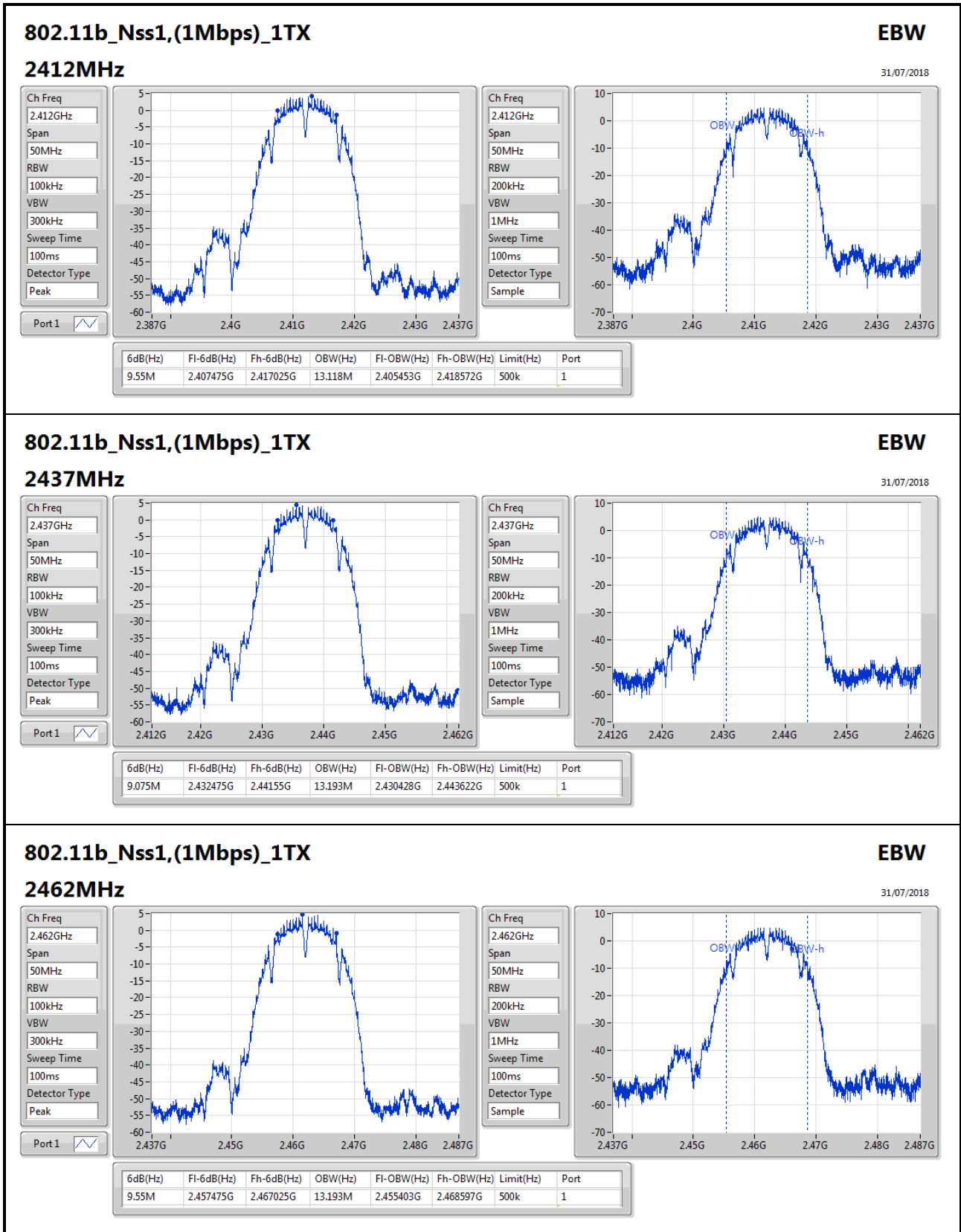
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	9.55M	13.193M	13M2G1D	9.075M	13.118M
802.11g_Nss1,(6Mbps)_1TX	15.525M	16.317M	16M3D1D	15.025M	16.217M
802.11n HT20_Nss1,(MCS0)_1TX	16.275M	17.466M	17M5D1D	15.05M	17.341M
802.11n HT40_Nss1,(MCS0)_1TX	35.1M	35.982M	36M0D1D	33.25M	35.682M

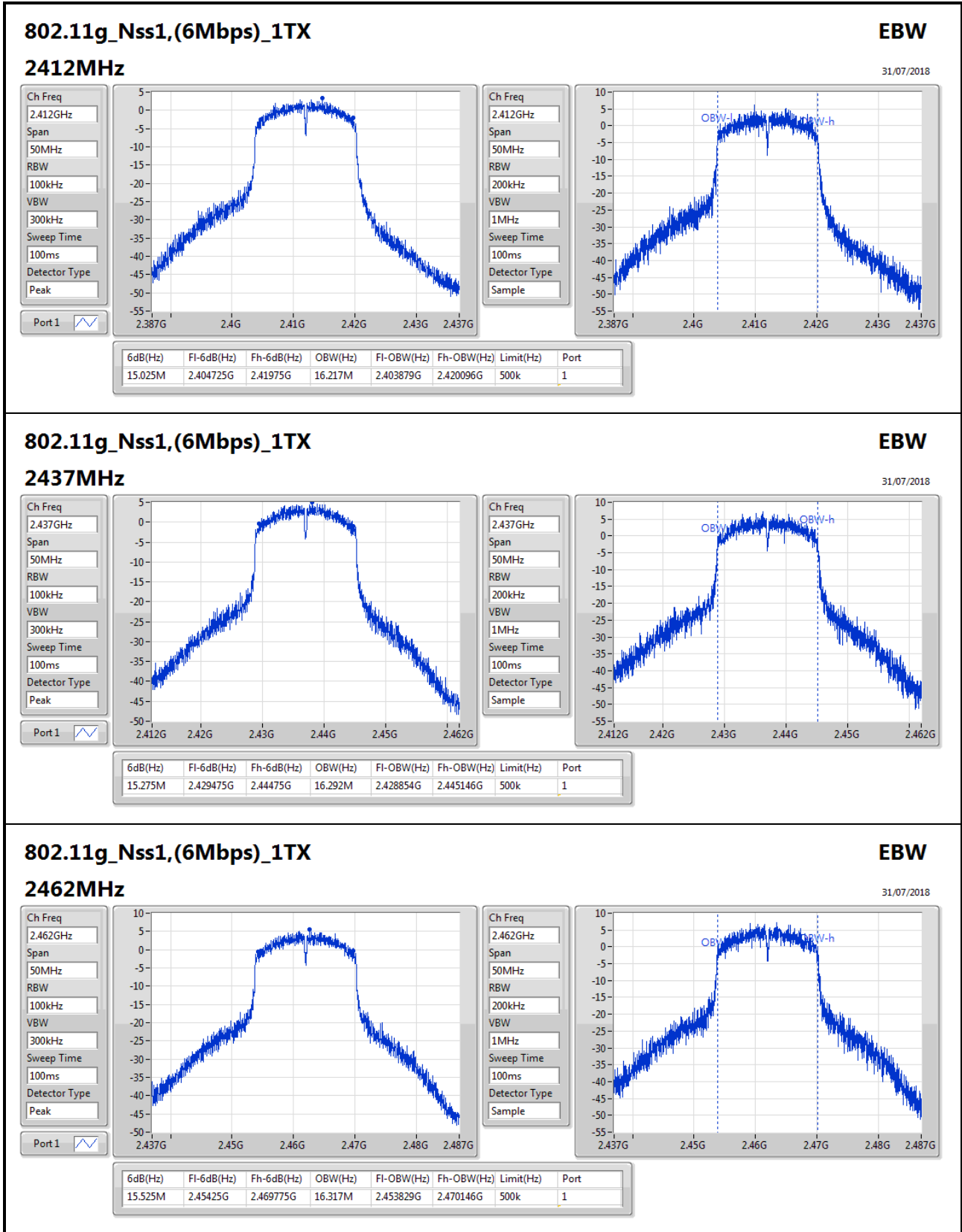
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

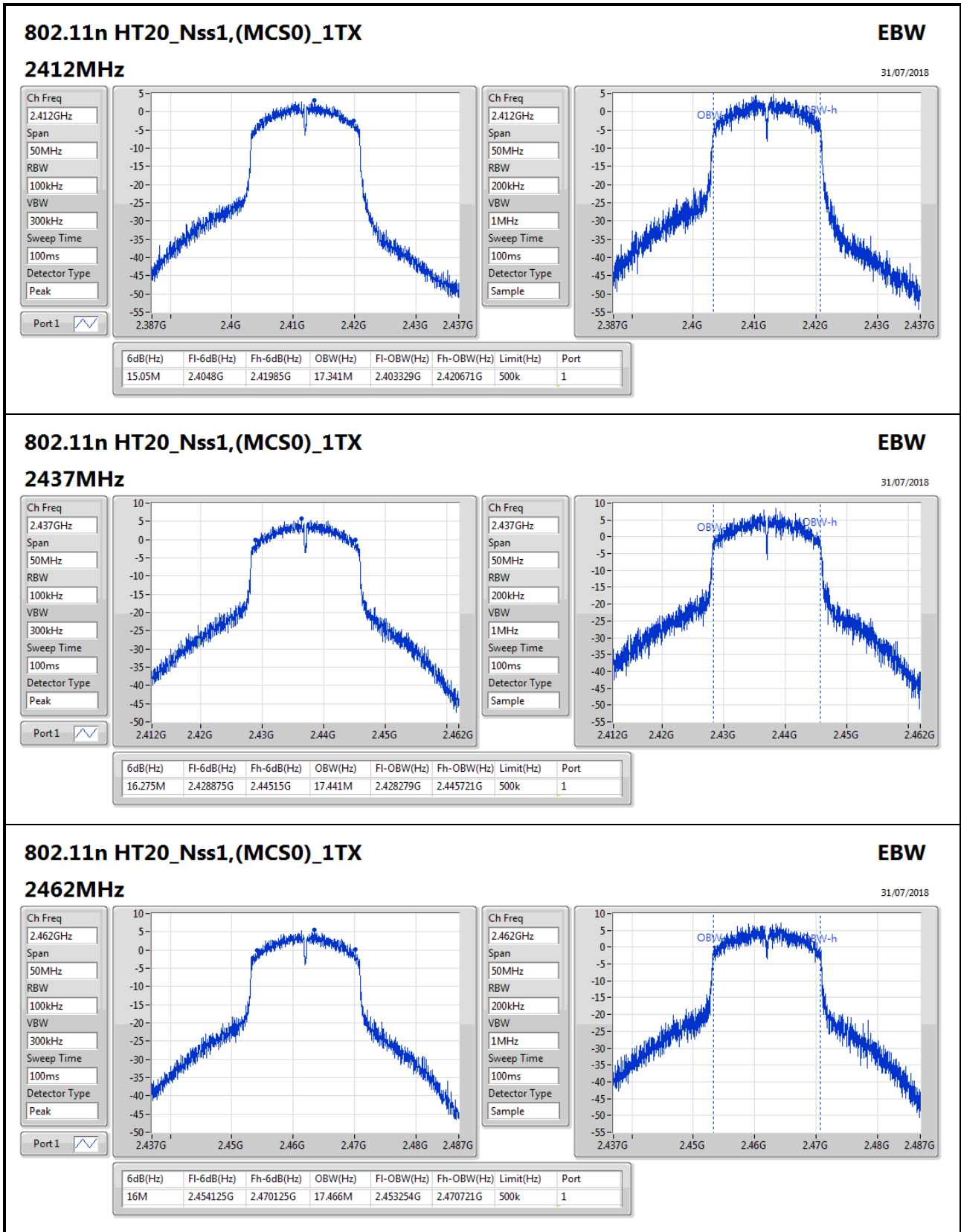
Result

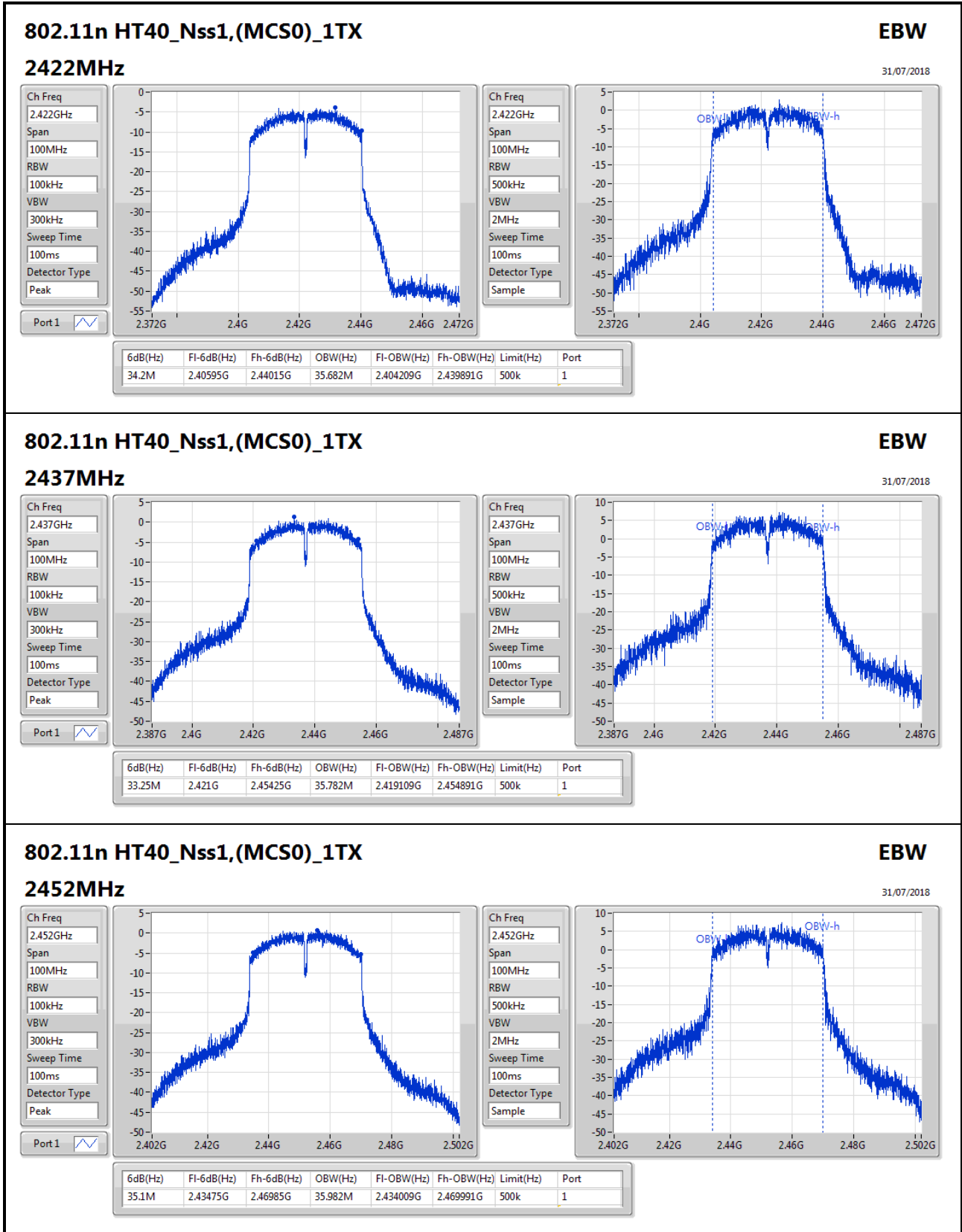
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	9.55M	13.118M
2437MHz_TnomVnom	Pass	500k	9.075M	13.193M
2462MHz_TnomVnom	Pass	500k	9.55M	13.193M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	15.025M	16.217M
2437MHz_TnomVnom	Pass	500k	15.275M	16.292M
2462MHz_TnomVnom	Pass	500k	15.525M	16.317M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	15.05M	17.341M
2437MHz_TnomVnom	Pass	500k	16.275M	17.441M
2462MHz_TnomVnom	Pass	500k	16M	17.466M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz_TnomVnom	Pass	500k	34.2M	35.682M
2437MHz_TnomVnom	Pass	500k	33.25M	35.782M
2452MHz_TnomVnom	Pass	500k	35.1M	35.982M

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











Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	13.87	0.02438
802.11g_Nss1,(6Mbps)_1TX	17.48	0.05598
802.11n HT20_Nss1,(MCS0)_1TX	17.29	0.05358
802.11n HT40_Nss1,(MCS0)_1TX	17.09	0.05117

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.00	13.73	13.73	30.00
2437MHz_TnomVnom	Pass	4.00	13.87	13.87	30.00
2462MHz_TnomVnom	Pass	4.00	13.82	13.82	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.00	15.80	15.80	30.00
2417MHz_TnomVnom	Pass	4.00	17.48	17.48	30.00
2437MHz_TnomVnom	Pass	4.00	17.14	17.14	30.00
2462MHz_TnomVnom	Pass	4.00	17.45	17.45	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.00	15.04	15.04	30.00
2417MHz_TnomVnom	Pass	4.00	17.29	17.29	30.00
2437MHz_TnomVnom	Pass	4.00	17.14	17.14	30.00
2462MHz_TnomVnom	Pass	4.00	17.03	17.03	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz_TnomVnom	Pass	4.00	12.15	12.15	30.00
2427MHz_TnomVnom	Pass	4.00	13.75	13.75	30.00
2432MHz_TnomVnom	Pass	4.00	15.06	15.06	30.00
2437MHz_TnomVnom	Pass	4.00	16.87	16.87	30.00
2452MHz_TnomVnom	Pass	4.00	17.09	17.09	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)_1TX	-10.07
802.11g_Nss1,(6Mbps)_1TX	-8.00
802.11n HT20_Nss1,(MCS0)_1TX	-7.72
802.11n HT40_Nss1,(MCS0)_1TX	-11.53

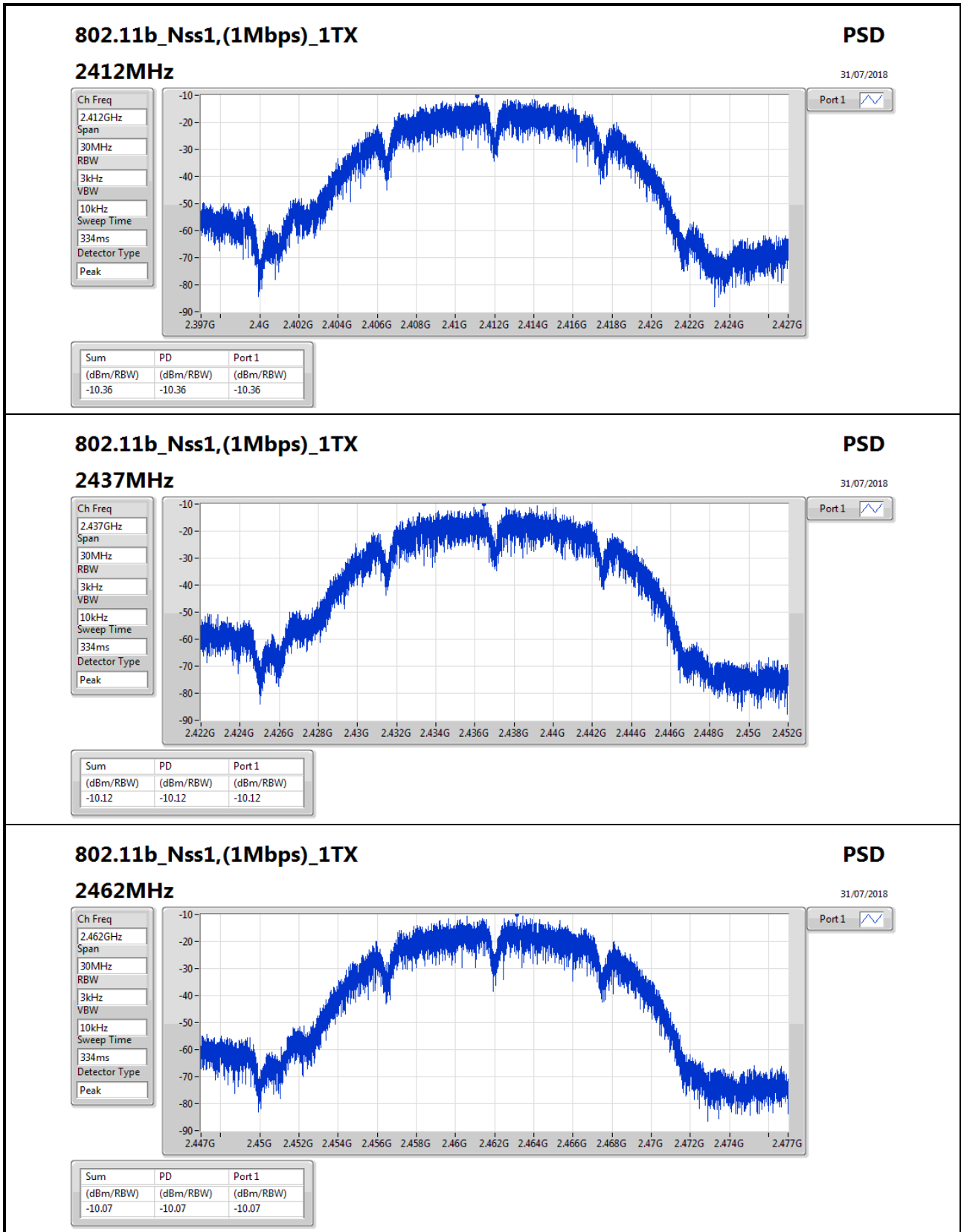
RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.00	-10.36	-10.36	8.00
2437MHz_TnomVnom	Pass	4.00	-10.12	-10.12	8.00
2462MHz_TnomVnom	Pass	4.00	-10.07	-10.07	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.00	-9.37	-9.37	8.00
2437MHz_TnomVnom	Pass	4.00	-8.18	-8.18	8.00
2462MHz_TnomVnom	Pass	4.00	-8.00	-8.00	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.00	-9.72	-9.72	8.00
2437MHz_TnomVnom	Pass	4.00	-7.72	-7.72	8.00
2462MHz_TnomVnom	Pass	4.00	-7.99	-7.99	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz_TnomVnom	Pass	4.00	-16.04	-16.04	8.00
2437MHz_TnomVnom	Pass	4.00	-11.97	-11.97	8.00
2452MHz_TnomVnom	Pass	4.00	-11.53	-11.53	8.00

DG = Directional Gain; RBW=3kHz;

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



802.11b_Nss1,(1Mbps)_1TX

2462MHz

PSD

31/07/2018

Ch Freq
2.462GHz

Span
30MHz

RBW
3kHz

VBW
10kHz

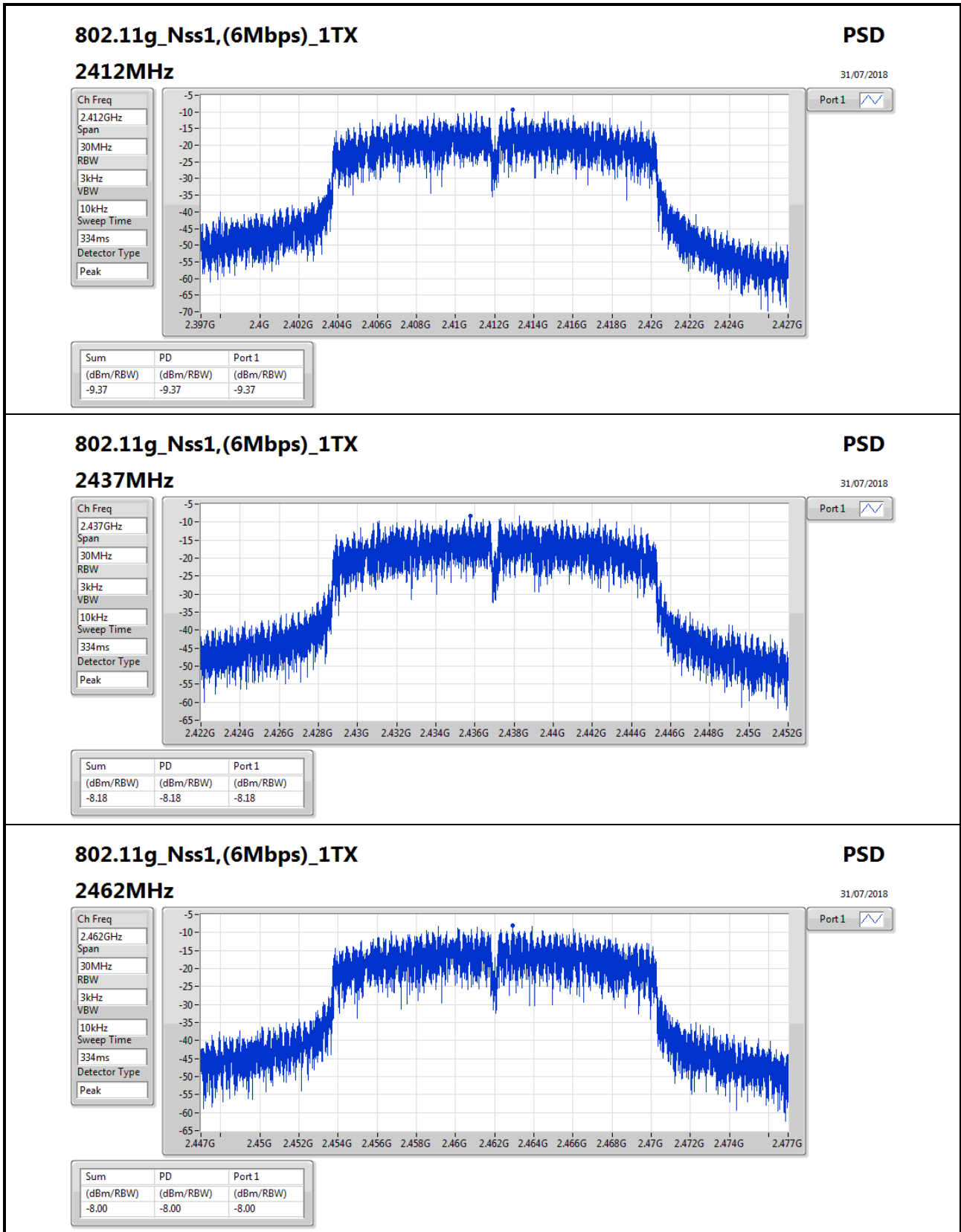
Sweep Time
334ms

Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.07	-10.07	-10.07



802.11g_Nss1,(6Mbps)_1TX

2462MHz

PSD

31/07/2018

Ch Freq
2.462GHz

Span
30MHz

RBW
3kHz

VBW
10kHz

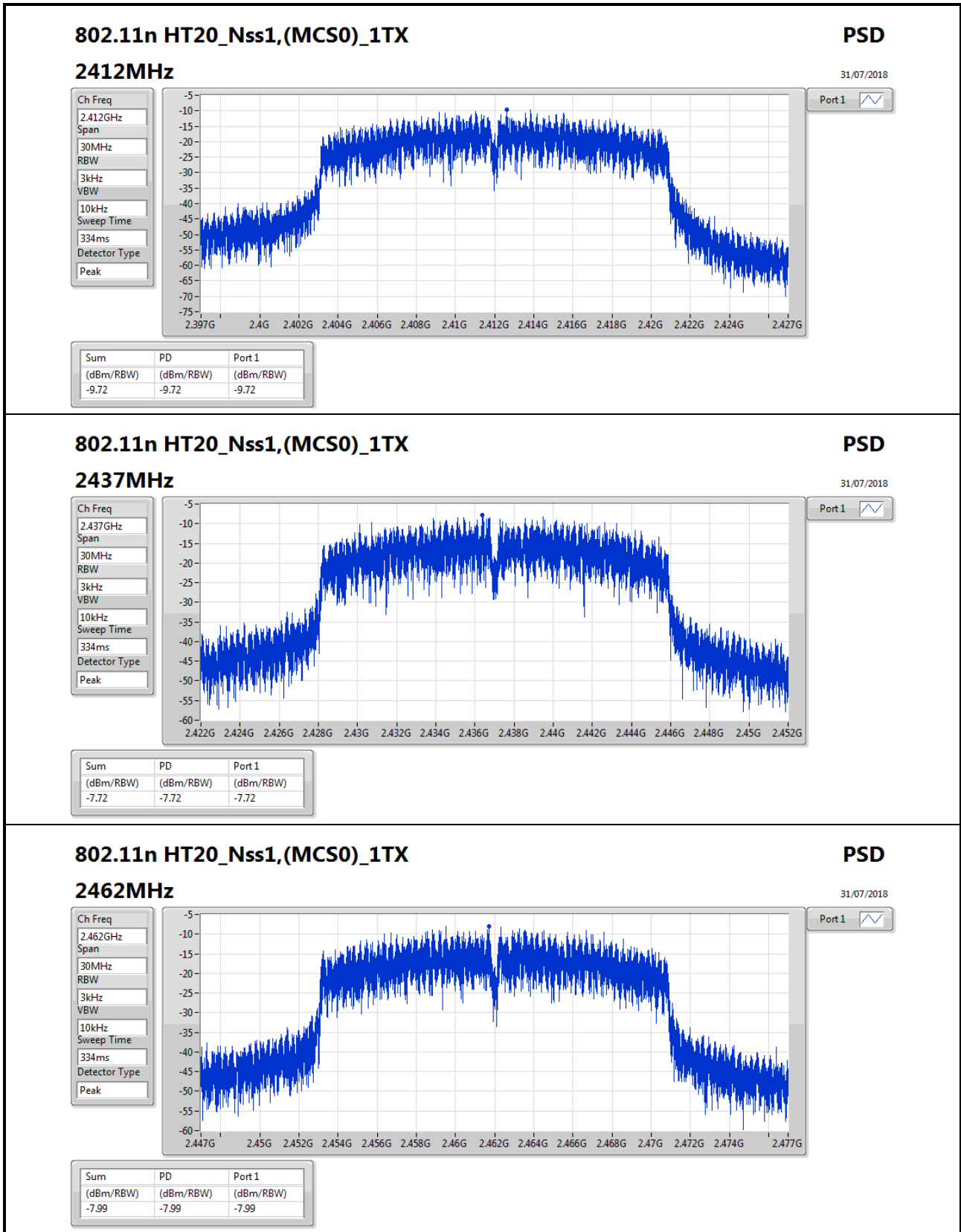
Sweep Time
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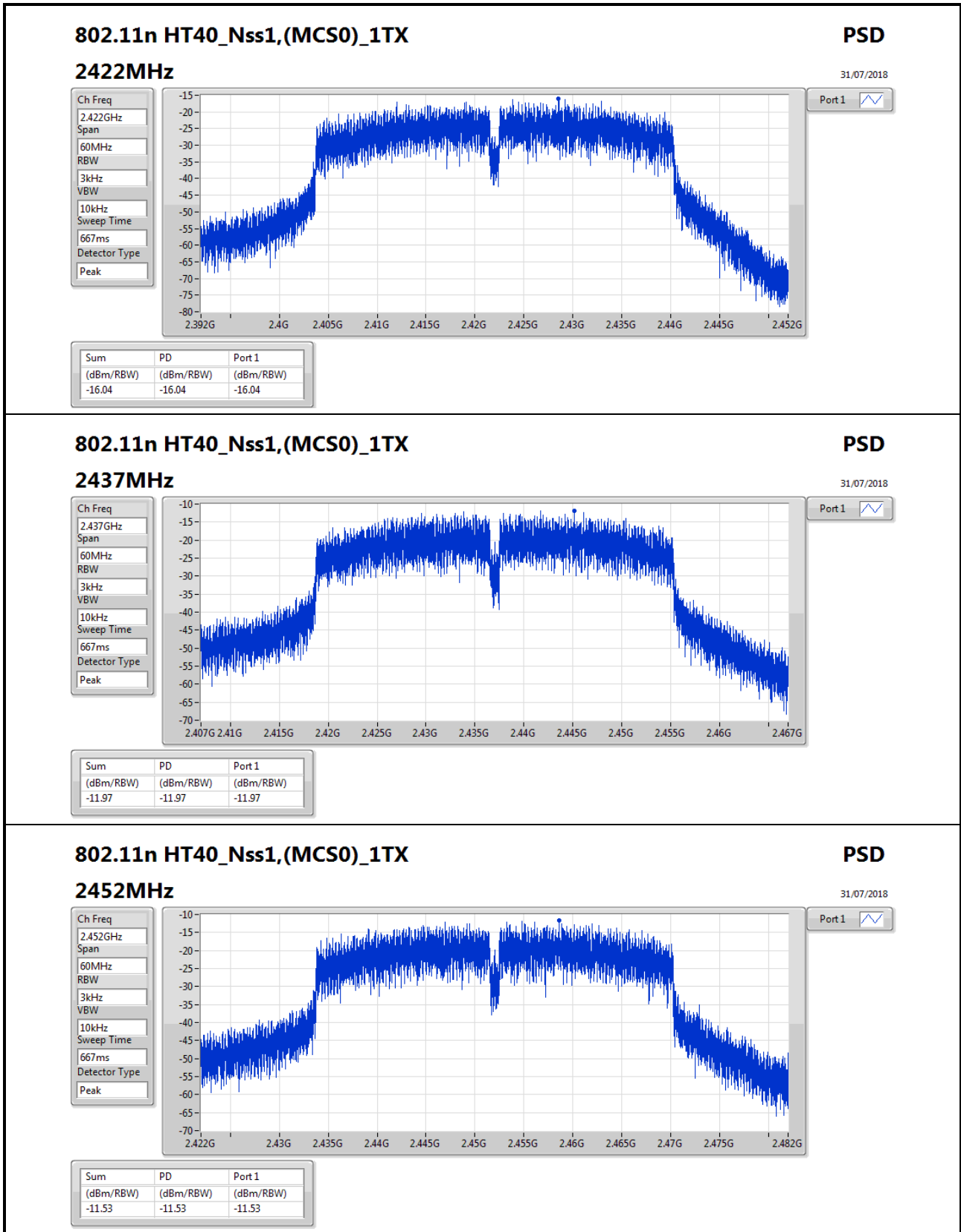
Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.00	-8.00	-8.00





802.11n HT40_Nss1,(MCS0)_1TX

2452MHz

PSD

31/07/2018

Ch Freq
2.452GHz

Span
60MHz

RBW
3kHz

VBW
10kHz

Sweep Time
667ms

Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.53	-11.53	-11.53

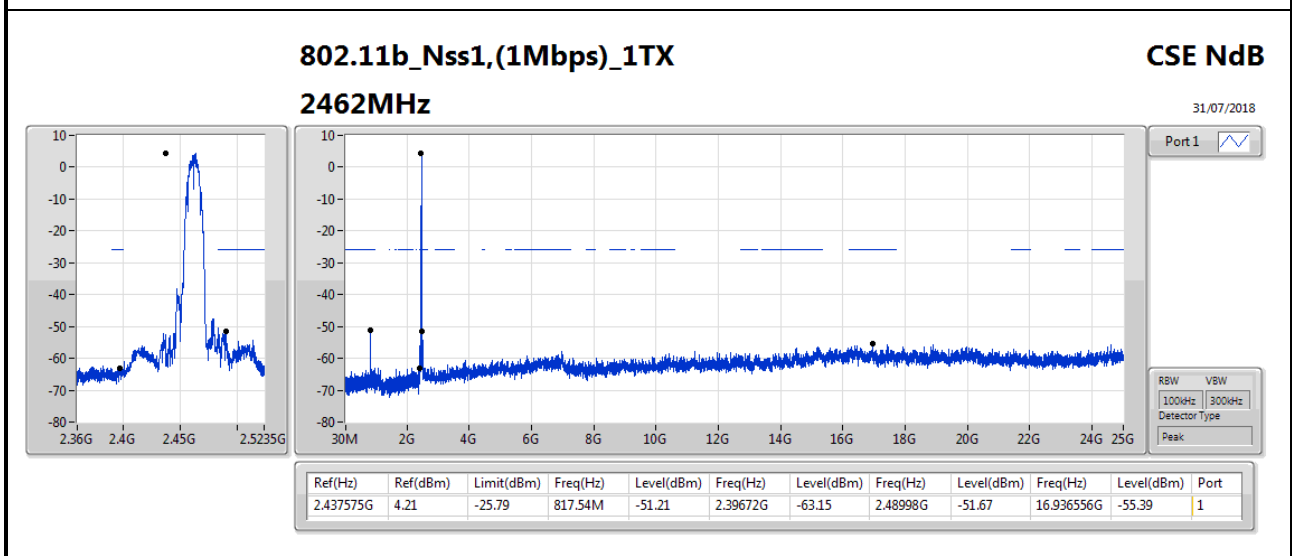
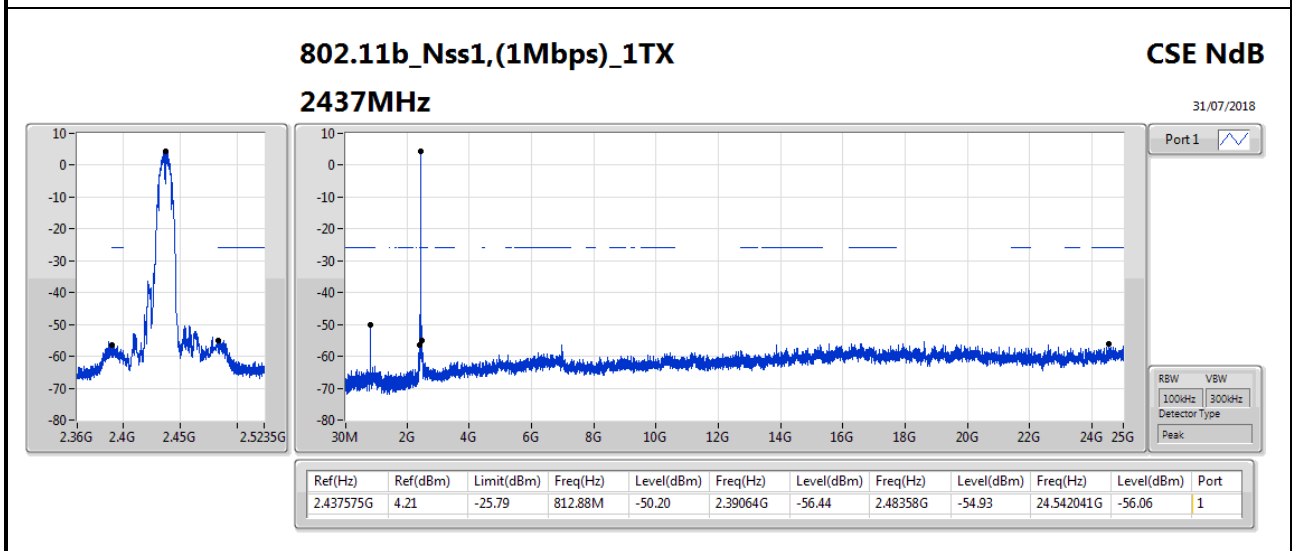
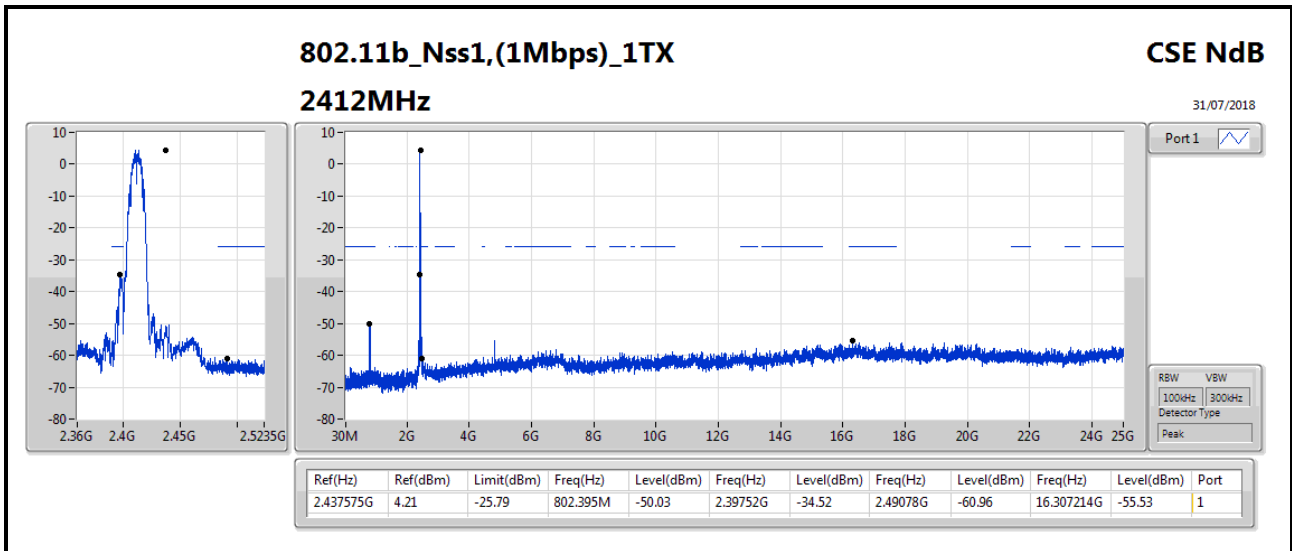


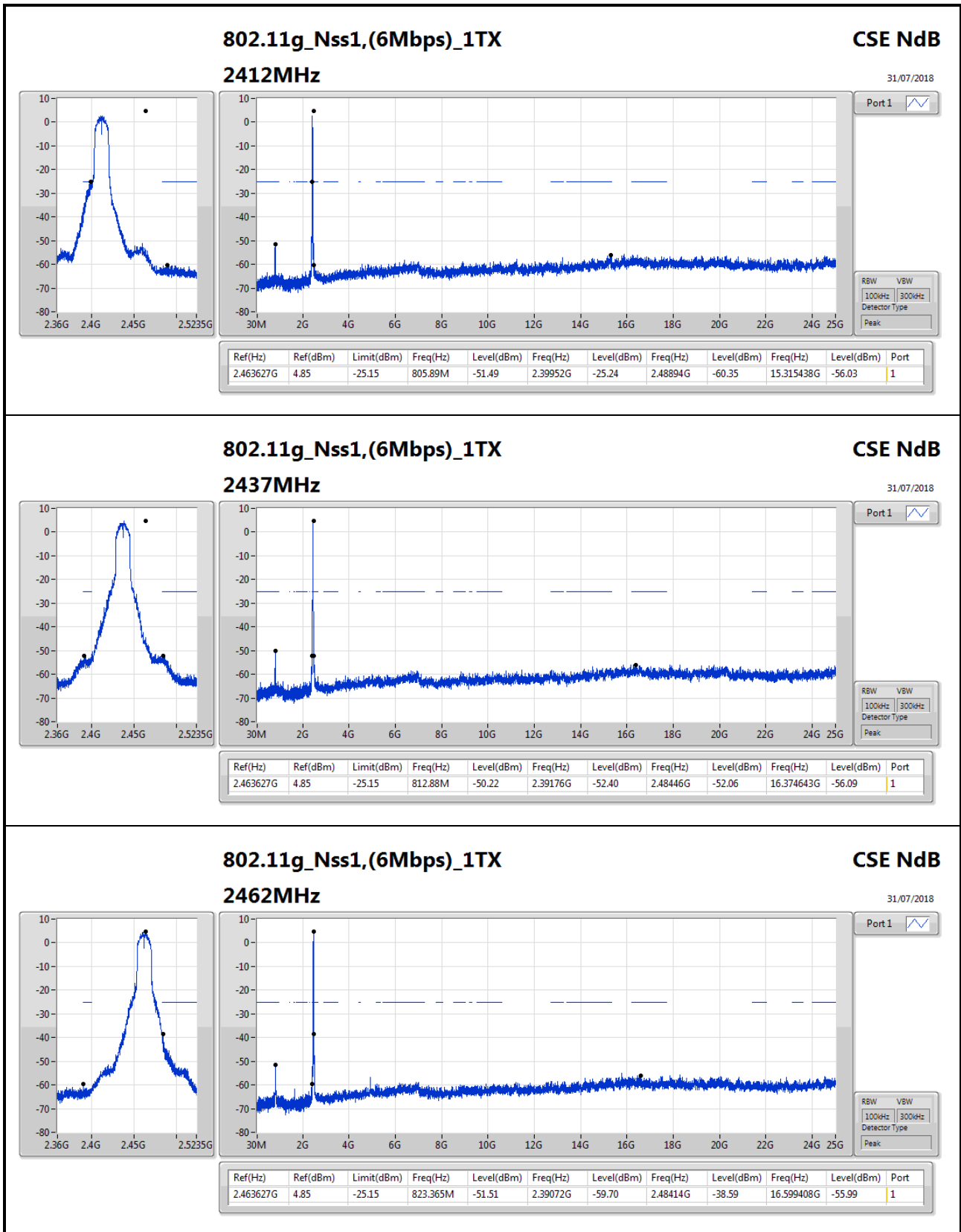
Summary

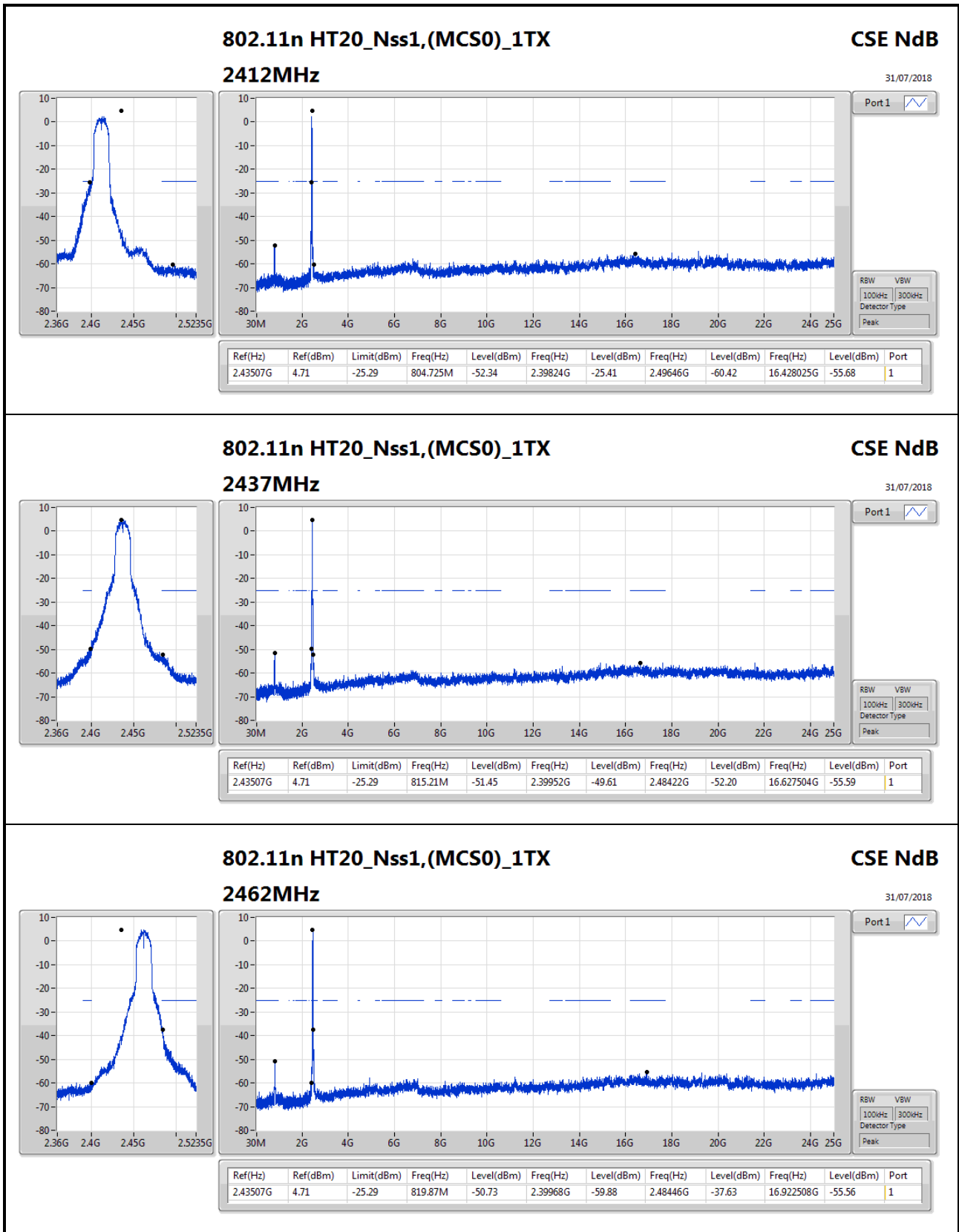
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.437575G	4.21	-25.79	802.395M	-50.03	2.39752G	-34.52	2.49078G	-60.96	16.307214G	-55.53	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.463627G	4.85	-25.15	805.89M	-51.49	2.39952G	-25.24	2.48894G	-60.35	15.315438G	-56.03	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.43507G	4.71	-25.29	804.725M	-52.34	2.39824G	-25.41	2.49646G	-60.42	16.428025G	-55.68	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.458617G	1.34	-28.66	822.34M	-52.73	2.39744G	-30.62	2.48382G	-42.85	25G	-55.84	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.437575G	4.21	-25.79	802.395M	-50.03	2.39752G	-34.52	2.49078G	-60.96	16.307214G	-55.53	1
2437MHz_TnomVnom	Pass	2.437575G	4.21	-25.79	812.88M	-50.20	2.39064G	-56.44	2.48358G	-54.93	24.542041G	-56.06	1
2462MHz_TnomVnom	Pass	2.437575G	4.21	-25.79	817.54M	-51.21	2.39672G	-63.15	2.48998G	-51.67	16.936556G	-55.39	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.463627G	4.85	-25.15	805.89M	-51.49	2.39952G	-25.24	2.48894G	-60.35	15.315438G	-56.03	1
2437MHz_TnomVnom	Pass	2.463627G	4.85	-25.15	812.88M	-50.22	2.39176G	-52.40	2.48446G	-52.06	16.374643G	-56.09	1
2462MHz_TnomVnom	Pass	2.463627G	4.85	-25.15	823.365M	-51.51	2.39072G	-59.70	2.48414G	-38.59	16.599408G	-55.99	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43507G	4.71	-25.29	804.725M	-52.34	2.39824G	-25.41	2.49646G	-60.42	16.428025G	-55.68	1
2437MHz_TnomVnom	Pass	2.43507G	4.71	-25.29	815.21M	-51.45	2.39952G	-49.61	2.48422G	-52.20	16.627504G	-55.59	1
2462MHz_TnomVnom	Pass	2.43507G	4.71	-25.29	819.87M	-50.73	2.39968G	-59.88	2.48446G	-37.63	16.922508G	-55.56	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.458617G	1.34	-28.66	816.615M	-58.49	2.39456G	-33.07	2.48382G	-56.84	16.364752G	-56.29	1
2437MHz_TnomVnom	Pass	2.458617G	1.34	-28.66	822.34M	-52.73	2.39744G	-30.62	2.48382G	-42.85	25G	-55.84	1
2452MHz_TnomVnom	Pass	2.458617G	1.34	-28.66	824.63M	-53.53	2.39984G	-45.36	2.4851G	-35.80	16.381579G	-56.05	1







802.11n HT20_Nss1,(MCS0)_1TX

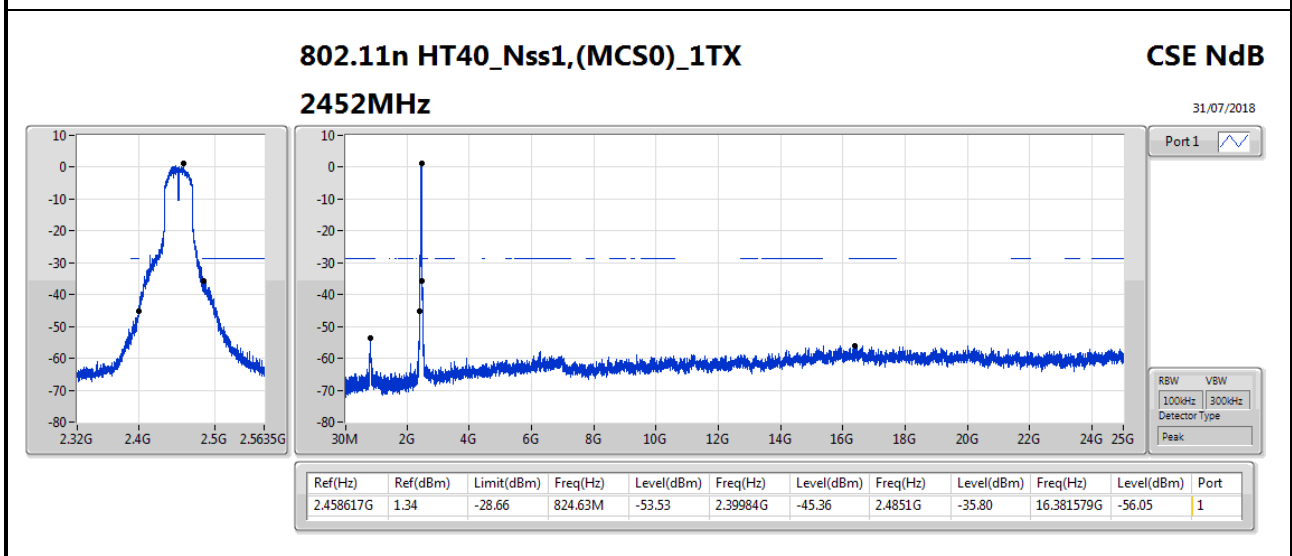
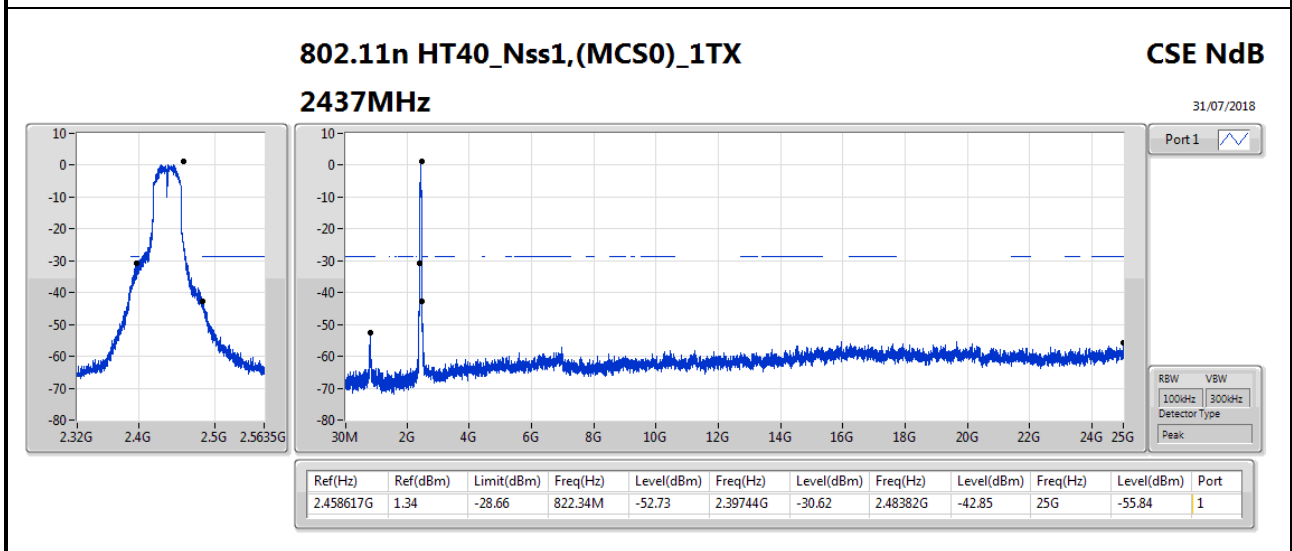
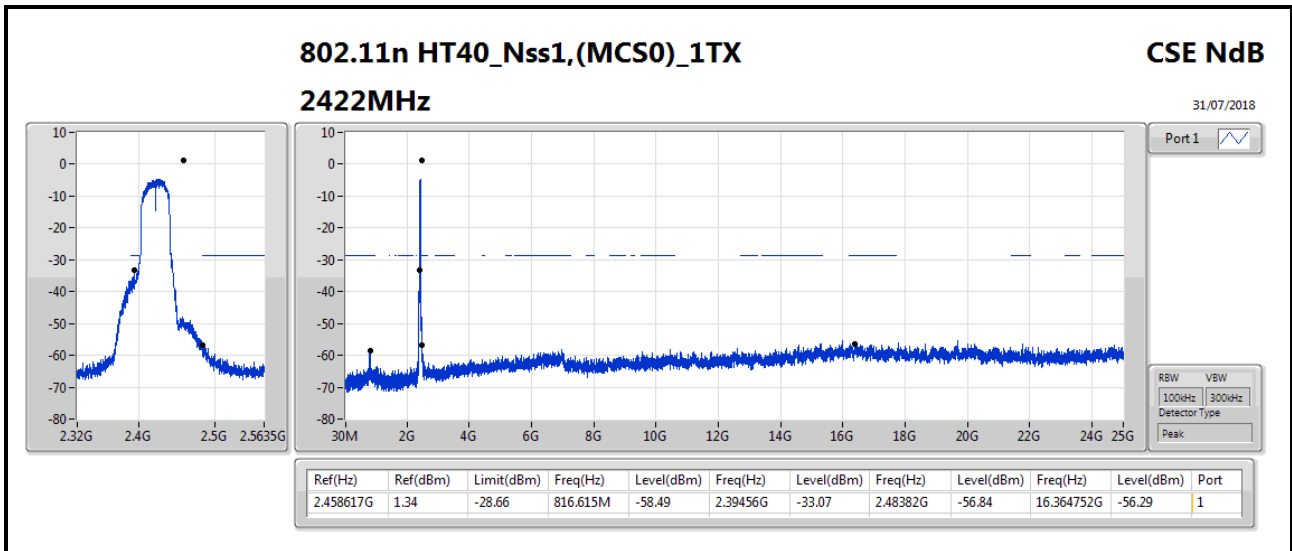
2462MHz

CSE NdB

31/07/2018

Port1

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43507G	4.71	-25.29	819.87M	-50.73	2.39968G	-59.88	2.48446G	-37.63	16.922508G	-55.56	1





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	PK	47.46M	34.78	40.00	-5.22	-22.21	3	Vertical	360	1.00	-



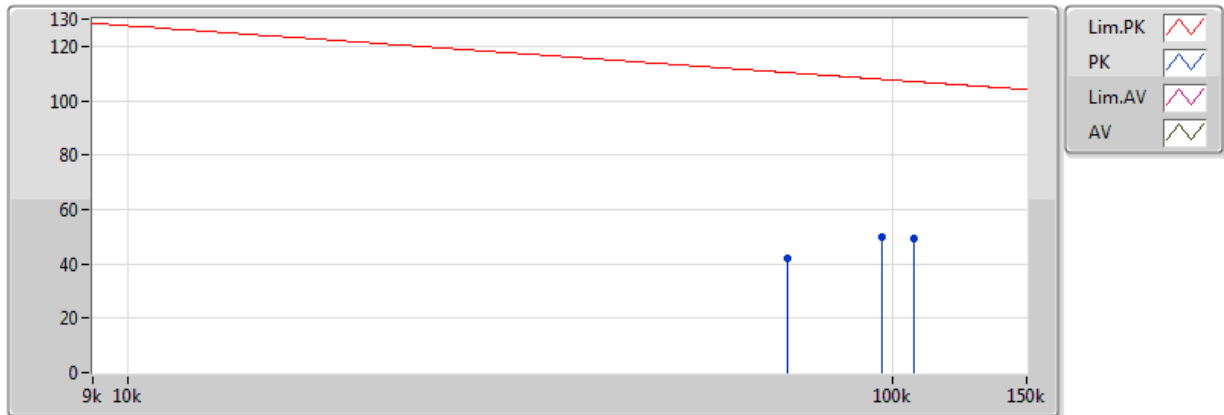
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	73.01k	42.20	110.33	-68.13	20.99	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	96.84k	49.97	107.87	-57.90	20.80	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	106.71k	49.25	107.03	-57.78	20.77	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	14.359M	40.64	69.50	-28.86	22.60	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	17.135M	40.90	69.50	-28.60	22.91	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	22.836M	42.46	69.50	-27.04	23.40	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	47.46M	34.78	40.00	-5.22	-22.21	3	Vertical	360	1.00	-
2437MHz	Pass	PK	107.6M	33.63	43.50	-9.87	-20.25	3	Vertical	360	1.00	-
2437MHz	Pass	PK	146.4M	31.18	43.50	-12.32	-19.39	3	Vertical	360	1.00	-
2437MHz	Pass	PK	390.84M	25.65	46.00	-20.35	-14.36	3	Vertical	360	1.00	-
2437MHz	Pass	PK	540.22M	33.47	46.00	-12.53	-12.03	3	Vertical	360	1.00	-
2437MHz	Pass	PK	588.72M	32.75	46.00	-13.25	-10.96	3	Vertical	360	1.00	-
2437MHz	Pass	PK	109.54M	32.54	43.50	-10.96	-20.04	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	142.52M	23.83	43.50	-19.67	-19.31	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	191.02M	26.57	43.50	-16.93	-21.35	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	311.3M	27.29	46.00	-18.71	-16.51	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	392.78M	28.91	46.00	-17.09	-14.29	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	491.72M	24.05	46.00	-21.95	-12.21	3	Horizontal	0	1.00	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_Switch Power Supply

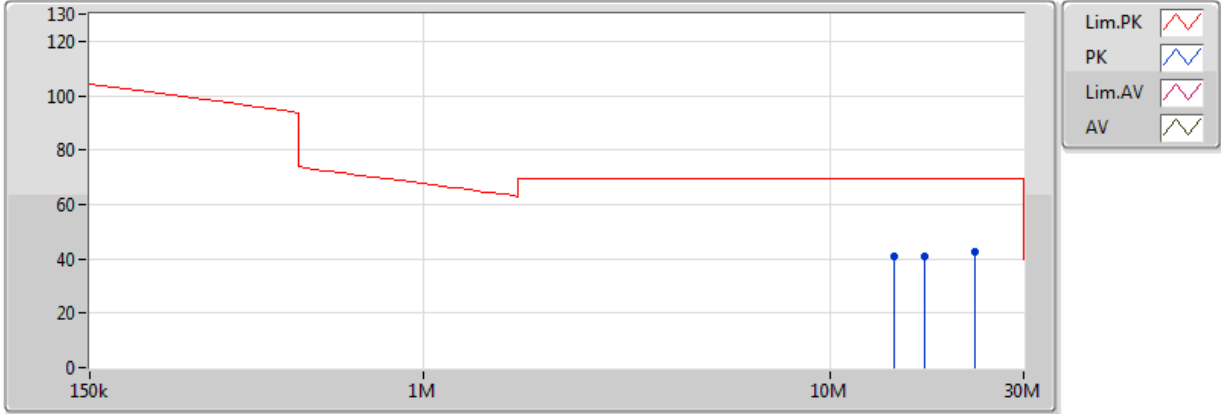
23/08/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	73.01k	42.20	110.33	-68.13	20.99	3	Horizontal	0	1.00	-
PK	96.84k	49.97	107.87	-57.90	20.80	3	Horizontal	0	1.00	-
PK	106.71k	49.25	107.03	-57.78	20.77	3	Horizontal	0	1.00	-

**802.11n HT40_Nss1,(MCS0)_2TX
2437MHz_Switch Power Supply**

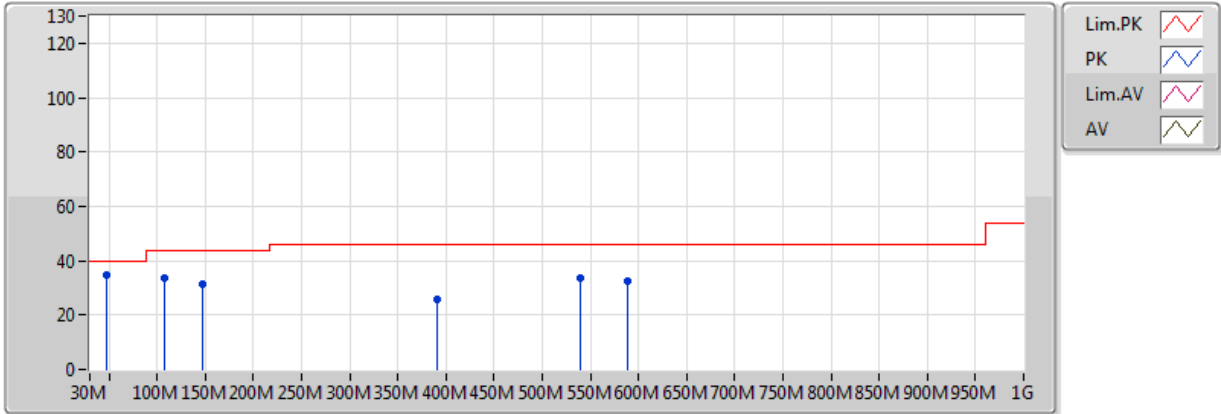
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	14.359M	40.64	69.50	-28.86	22.60	3	Horizontal	360	1.00	-
PK	17.135M	40.90	69.50	-28.60	22.91	3	Horizontal	360	1.00	-
PK	22.836M	42.46	69.50	-27.04	23.40	3	Horizontal	360	1.00	-

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

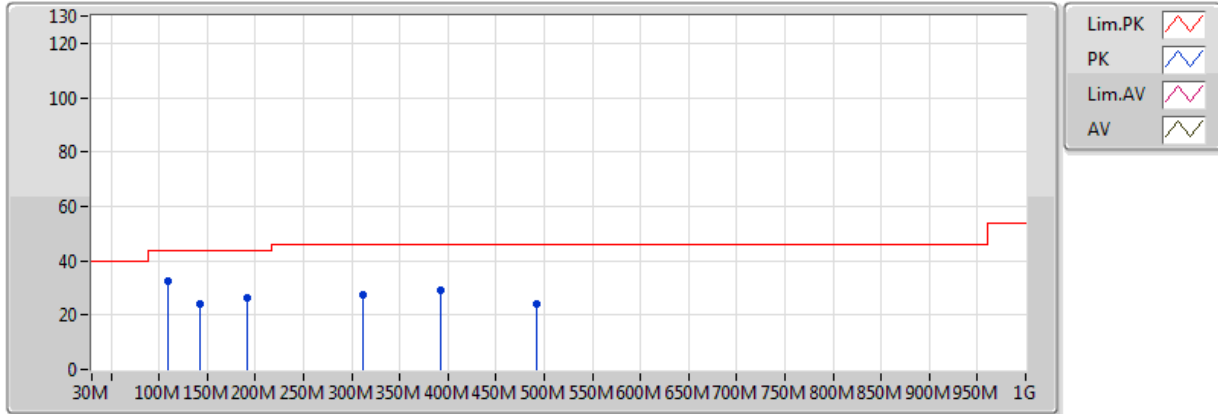
28/07/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	47.46M	34.78	40.00	-5.22	-22.21	3	Vertical	360	1.00	-
PK	107.6M	33.63	43.50	-9.87	-20.25	3	Vertical	360	1.00	-
PK	146.4M	31.18	43.50	-12.32	-19.39	3	Vertical	360	1.00	-
PK	390.84M	25.65	46.00	-20.35	-14.36	3	Vertical	360	1.00	-
PK	540.22M	33.47	46.00	-12.53	-12.03	3	Vertical	360	1.00	-
PK	588.72M	32.75	46.00	-13.25	-10.96	3	Vertical	360	1.00	-

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

28/07/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	109.54M	32.54	43.50	-10.96	-20.04	3	Horizontal	0	1.00	-
PK	142.52M	23.83	43.50	-19.67	-19.31	3	Horizontal	0	1.00	-
PK	191.02M	26.57	43.50	-16.93	-21.35	3	Horizontal	0	1.00	-
PK	311.3M	27.29	46.00	-18.71	-16.51	3	Horizontal	0	1.00	-
PK	392.78M	28.91	46.00	-17.09	-14.29	3	Horizontal	0	1.00	-
PK	491.72M	24.05	46.00	-21.95	-12.21	3	Horizontal	0	1.00	-



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	4.8792G	53.84	54.00	-0.16	2.27	3	Horizontal	41	2.54	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	4.922G	53.86	54.00	-0.14	2.37	3	Horizontal	39	2.50	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.389998G	53.36	54.00	-0.64	30.77	3	Vertical	80	1.04	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	AV	2.3898G	53.53	54.00	-0.47	30.77	3	Vertical	79	1.00	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3658G	42.77	54.00	-11.23	30.69	3	Vertical	63	1.45	-
2412MHz	Pass	AV	2.413G	97.09	Inf	-Inf	30.86	3	Vertical	63	1.45	-
2412MHz	Pass	PK	2.363G	55.53	74.00	-18.47	30.68	3	Vertical	63	1.45	-
2412MHz	Pass	PK	2.4148G	104.27	Inf	-Inf	30.86	3	Vertical	63	1.45	-
2412MHz	Pass	AV	2.3898G	42.20	54.00	-11.80	30.77	3	Horizontal	226	1.31	-
2412MHz	Pass	AV	2.413G	90.64	Inf	-Inf	30.86	3	Horizontal	226	1.31	-
2412MHz	Pass	PK	2.3662G	55.58	74.00	-18.42	30.70	3	Horizontal	226	1.31	-
2412MHz	Pass	PK	2.4148G	98.08	Inf	-Inf	30.86	3	Horizontal	226	1.31	-
2412MHz	Pass	AV	4.8292G	50.71	54.00	-3.29	2.14	3	Vertical	329	2.57	-
2412MHz	Pass	PK	4.8295G	57.18	74.00	-16.82	2.14	3	Vertical	329	2.57	-
2412MHz	Pass	AV	4.8292G	53.62	54.00	-0.38	2.14	3	Horizontal	43	2.45	-
2412MHz	Pass	PK	4.8296G	59.51	74.00	-14.49	2.14	3	Horizontal	43	2.45	-
2437MHz	Pass	AV	2.3882G	42.54	54.00	-11.46	30.77	3	Vertical	69	1.50	-
2437MHz	Pass	AV	2.4382G	96.48	Inf	-Inf	30.95	3	Vertical	69	1.50	-
2437MHz	Pass	AV	2.4866G	43.22	54.00	-10.78	31.12	3	Vertical	69	1.50	-
2437MHz	Pass	PK	2.3446G	54.85	74.00	-19.15	30.61	3	Vertical	69	1.50	-
2437MHz	Pass	PK	2.4398G	103.53	Inf	-Inf	30.95	3	Vertical	69	1.50	-
2437MHz	Pass	PK	2.4986G	55.62	74.00	-18.38	31.17	3	Vertical	69	1.50	-
2437MHz	Pass	AV	2.387G	42.02	54.00	-11.98	30.76	3	Horizontal	29	2.31	-
2437MHz	Pass	AV	2.4382G	91.86	Inf	-Inf	30.95	3	Horizontal	29	2.31	-
2437MHz	Pass	AV	2.4842G	42.79	54.00	-11.21	31.12	3	Horizontal	29	2.31	-
2437MHz	Pass	PK	2.3478G	55.14	74.00	-18.86	30.62	3	Horizontal	29	2.31	-
2437MHz	Pass	PK	2.4398G	98.88	Inf	-Inf	30.95	3	Horizontal	29	2.31	-
2437MHz	Pass	PK	2.4946G	55.56	74.00	-18.44	31.15	3	Horizontal	29	2.31	-
2437MHz	Pass	AV	4.8792G	51.69	54.00	-2.31	2.27	3	Vertical	334	2.55	-
2437MHz	Pass	PK	4.8794G	57.69	74.00	-16.31	2.27	3	Vertical	334	2.55	-
2437MHz	Pass	AV	4.8792G	53.84	54.00	-0.16	2.27	3	Horizontal	41	2.54	-
2437MHz	Pass	PK	4.8796G	60.00	74.00	-14.00	2.27	3	Horizontal	41	2.54	-
2462MHz	Pass	AV	2.4602G	97.60	Inf	-Inf	31.03	3	Vertical	46	1.15	-
2462MHz	Pass	AV	2.487G	43.14	54.00	-10.86	31.12	3	Vertical	46	1.15	-
2462MHz	Pass	PK	2.4592G	104.64	Inf	-Inf	31.02	3	Vertical	46	1.15	-
2462MHz	Pass	PK	2.4854G	56.22	74.00	-17.78	31.12	3	Vertical	46	1.15	-
2462MHz	Pass	AV	2.463G	92.40	Inf	-Inf	31.04	3	Horizontal	143	2.49	-
2462MHz	Pass	AV	2.4888G	42.80	54.00	-11.20	31.13	3	Horizontal	143	2.49	-
2462MHz	Pass	PK	2.4648G	99.44	Inf	-Inf	31.04	3	Horizontal	143	2.49	-
2462MHz	Pass	PK	2.499G	56.23	74.00	-17.77	31.17	3	Horizontal	143	2.49	-
2462MHz	Pass	AV	4.9189G	51.64	54.00	-2.36	2.37	3	Vertical	343	2.68	-
2462MHz	Pass	PK	4.9185G	57.93	74.00	-16.07	2.37	3	Vertical	343	2.68	-
2462MHz	Pass	AV	4.9188G	53.23	54.00	-0.77	2.37	3	Horizontal	35	2.59	-
2462MHz	Pass	PK	4.9185G	59.07	74.00	-14.93	2.37	3	Horizontal	35	2.59	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.389998G	53.36	54.00	-0.64	30.77	3	Vertical	71	1.50	-
2412MHz	Pass	AV	2.413G	97.38	Inf	-Inf	30.86	3	Vertical	71	1.50	-
2412MHz	Pass	PK	2.389998G	67.47	74.00	-6.53	30.77	3	Vertical	71	1.50	-
2412MHz	Pass	PK	2.4112G	107.90	Inf	-Inf	30.85	3	Vertical	71	1.50	-
2412MHz	Pass	AV	2.389998G	49.82	54.00	-4.18	30.77	3	Horizontal	128	2.38	-
2412MHz	Pass	AV	2.4132G	92.63	Inf	-Inf	30.86	3	Horizontal	128	2.38	-



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
2412MHz	Pass	PK	2.389998G	63.18	74.00	-10.82	30.77	3	Horizontal	128	2.38	-
2412MHz	Pass	PK	2.4126G	102.48	Inf	-Inf	30.86	3	Horizontal	128	2.38	-
2412MHz	Pass	AV	4.8236G	50.40	54.00	-3.60	2.13	3	Vertical	337	2.75	-
2412MHz	Pass	PK	4.8294G	64.48	74.00	-9.52	2.14	3	Vertical	337	2.75	-
2412MHz	Pass	AV	4.8246G	52.16	54.00	-1.84	2.13	3	Horizontal	36	2.41	-
2412MHz	Pass	PK	4.8301G	66.69	74.00	-7.31	2.15	3	Horizontal	36	2.41	-
2417MHz	Pass	AV	2.389998G	48.82	54.00	-5.18	30.77	3	Vertical	83	1.22	-
2417MHz	Pass	AV	2.4154G	98.78	Inf	-Inf	30.87	3	Vertical	83	1.22	-
2417MHz	Pass	PK	2.3898G	63.54	74.00	-10.46	30.77	3	Vertical	83	1.22	-
2417MHz	Pass	PK	2.4152G	109.40	Inf	-Inf	30.86	3	Vertical	83	1.22	-
2417MHz	Pass	AV	2.389998G	43.87	54.00	-10.13	30.77	3	Horizontal	197	1.50	-
2417MHz	Pass	AV	2.4154G	91.10	Inf	-Inf	30.87	3	Horizontal	197	1.50	-
2417MHz	Pass	PK	2.389G	57.77	74.00	-16.23	30.77	3	Horizontal	197	1.50	-
2417MHz	Pass	PK	2.414G	101.91	Inf	-Inf	30.86	3	Horizontal	197	1.50	-
2437MHz	Pass	AV	2.3882G	43.39	54.00	-10.61	30.77	3	Vertical	54	1.01	-
2437MHz	Pass	AV	2.4354G	98.87	Inf	-Inf	30.94	3	Vertical	54	1.01	-
2437MHz	Pass	AV	2.4842G	44.25	54.00	-9.75	31.12	3	Vertical	54	1.01	-
2437MHz	Pass	PK	2.389G	55.82	74.00	-18.18	30.77	3	Vertical	54	1.01	-
2437MHz	Pass	PK	2.4346G	108.91	Inf	-Inf	30.93	3	Vertical	54	1.01	-
2437MHz	Pass	PK	2.483502G	56.65	74.00	-17.35	31.11	3	Vertical	54	1.01	-
2437MHz	Pass	AV	2.3898G	42.26	54.00	-11.74	30.77	3	Horizontal	34	2.28	-
2437MHz	Pass	AV	2.439G	94.53	Inf	-Inf	30.95	3	Horizontal	34	2.28	-
2437MHz	Pass	AV	2.4858G	43.08	54.00	-10.92	31.12	3	Horizontal	34	2.28	-
2437MHz	Pass	PK	2.3766G	56.20	74.00	-17.80	30.72	3	Horizontal	34	2.28	-
2437MHz	Pass	PK	2.4394G	104.94	Inf	-Inf	30.95	3	Horizontal	34	2.28	-
2437MHz	Pass	PK	2.4986G	55.90	74.00	-18.10	31.17	3	Horizontal	34	2.28	-
2437MHz	Pass	AV	4.8747G	51.34	54.00	-2.66	2.26	3	Vertical	337	2.55	-
2437MHz	Pass	PK	4.8752G	65.29	74.00	-8.71	2.26	3	Vertical	337	2.55	-
2437MHz	Pass	AV	4.8754G	53.83	54.00	-0.17	2.26	3	Horizontal	37	2.54	-
2437MHz	Pass	PK	4.8694G	67.64	74.00	-6.36	2.24	3	Horizontal	37	2.54	-
2462MHz	Pass	AV	2.4608G	98.60	Inf	-Inf	31.03	3	Vertical	72	1.11	-
2462MHz	Pass	AV	2.483502G	51.66	54.00	-2.34	31.11	3	Vertical	72	1.11	-
2462MHz	Pass	PK	2.4622G	109.18	Inf	-Inf	31.03	3	Vertical	72	1.11	-
2462MHz	Pass	PK	2.483502G	64.78	74.00	-9.22	31.11	3	Vertical	72	1.11	-
2462MHz	Pass	AV	2.4632G	93.92	Inf	-Inf	31.04	3	Horizontal	218	1.00	-
2462MHz	Pass	AV	2.483502G	47.43	54.00	-6.57	31.11	3	Horizontal	218	1.00	-
2462MHz	Pass	PK	2.462G	104.24	Inf	-Inf	31.03	3	Horizontal	218	1.00	-
2462MHz	Pass	PK	2.483502G	60.21	74.00	-13.79	31.11	3	Horizontal	218	1.00	-
2462MHz	Pass	AV	4.9235G	51.66	54.00	-2.34	2.38	3	Vertical	338	2.37	-
2462MHz	Pass	PK	4.9258G	65.66	74.00	-8.34	2.38	3	Vertical	338	2.37	-
2462MHz	Pass	AV	4.922G	53.86	54.00	-0.14	2.37	3	Horizontal	39	2.50	-
2462MHz	Pass	PK	4.923G	68.17	74.00	-5.83	2.38	3	Horizontal	39	2.50	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.389998G	53.36	54.00	-0.64	30.77	3	Vertical	80	1.04	-
2412MHz	Pass	AV	2.4132G	96.99	Inf	-Inf	30.86	3	Vertical	80	1.04	-
2412MHz	Pass	PK	2.3894G	68.45	74.00	-5.55	30.77	3	Vertical	80	1.04	-
2412MHz	Pass	PK	2.4118G	108.19	Inf	-Inf	30.85	3	Vertical	80	1.04	-
2412MHz	Pass	AV	2.389998G	47.40	54.00	-6.60	30.77	3	Horizontal	194	1.51	-
2412MHz	Pass	AV	2.4136G	90.02	Inf	-Inf	30.86	3	Horizontal	194	1.51	-



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
2412MHz	Pass	PK	2.3896G	61.04	74.00	-12.96	30.77	3	Horizontal	194	1.51	-
2412MHz	Pass	PK	2.41G	101.62	Inf	-Inf	30.85	3	Horizontal	194	1.51	-
2412MHz	Pass	AV	4.8255G	46.78	54.00	-7.22	2.13	3	Vertical	330	2.44	-
2412MHz	Pass	PK	4.8231G	61.36	74.00	-12.64	2.13	3	Vertical	330	2.44	-
2412MHz	Pass	AV	4.8238G	48.83	54.00	-5.17	2.13	3	Horizontal	44	1.00	-
2412MHz	Pass	PK	4.8238G	63.83	74.00	-10.17	2.13	3	Horizontal	44	1.00	-
2417MHz	Pass	AV	2.389998G	52.09	54.00	-1.91	30.77	3	Vertical	79	1.17	-
2417MHz	Pass	AV	2.4182G	99.40	Inf	-Inf	30.88	3	Vertical	79	1.17	-
2417MHz	Pass	PK	2.3892G	68.81	74.00	-5.19	30.77	3	Vertical	79	1.17	-
2417MHz	Pass	PK	2.416G	110.31	Inf	-Inf	30.87	3	Vertical	79	1.17	-
2417MHz	Pass	AV	2.389998G	45.95	54.00	-8.05	30.77	3	Horizontal	198	1.50	-
2417MHz	Pass	AV	2.4152G	91.91	Inf	-Inf	30.86	3	Horizontal	198	1.50	-
2417MHz	Pass	PK	2.3894G	60.48	74.00	-13.52	30.77	3	Horizontal	198	1.50	-
2417MHz	Pass	PK	2.4156G	102.46	Inf	-Inf	30.87	3	Horizontal	198	1.50	-
2437MHz	Pass	AV	2.3894G	43.27	54.00	-10.73	30.77	3	Vertical	46	1.01	-
2437MHz	Pass	AV	2.4358G	99.13	Inf	-Inf	30.94	3	Vertical	46	1.01	-
2437MHz	Pass	AV	2.483502G	44.18	54.00	-9.82	31.11	3	Vertical	46	1.01	-
2437MHz	Pass	PK	2.3598G	56.49	74.00	-17.51	30.67	3	Vertical	46	1.01	-
2437MHz	Pass	PK	2.4354G	110.26	Inf	-Inf	30.94	3	Vertical	46	1.01	-
2437MHz	Pass	PK	2.4838G	57.54	74.00	-16.46	31.11	3	Vertical	46	1.01	-
2437MHz	Pass	AV	2.3898G	41.84	54.00	-12.16	30.77	3	Horizontal	25	2.30	-
2437MHz	Pass	AV	2.4386G	93.76	Inf	-Inf	30.95	3	Horizontal	25	2.30	-
2437MHz	Pass	AV	2.483502G	42.69	54.00	-11.31	31.11	3	Horizontal	25	2.30	-
2437MHz	Pass	PK	2.3822G	55.31	74.00	-18.69	30.75	3	Horizontal	25	2.30	-
2437MHz	Pass	PK	2.4374G	104.57	Inf	-Inf	30.94	3	Horizontal	25	2.30	-
2437MHz	Pass	PK	2.4842G	56.41	74.00	-17.59	31.12	3	Horizontal	25	2.30	-
2437MHz	Pass	AV	4.8751G	51.09	54.00	-2.91	2.26	3	Vertical	330	2.46	-
2437MHz	Pass	PK	4.8732G	66.59	74.00	-7.41	2.25	3	Vertical	330	2.46	-
2437MHz	Pass	AV	4.8748G	53.11	54.00	-0.89	2.26	3	Horizontal	31	2.48	-
2437MHz	Pass	PK	4.8782G	67.92	74.00	-6.08	2.27	3	Horizontal	31	2.48	-
2462MHz	Pass	AV	2.4604G	98.76	Inf	-Inf	31.03	3	Vertical	44	1.16	-
2462MHz	Pass	AV	2.483502G	53.24	54.00	-0.76	31.11	3	Vertical	44	1.16	-
2462MHz	Pass	PK	2.4604G	109.92	Inf	-Inf	31.03	3	Vertical	44	1.16	-
2462MHz	Pass	PK	2.483502G	67.26	74.00	-6.74	31.11	3	Vertical	44	1.16	-
2462MHz	Pass	AV	2.4638G	92.97	Inf	-Inf	31.04	3	Horizontal	43	2.23	-
2462MHz	Pass	AV	2.483502G	47.66	54.00	-6.34	31.11	3	Horizontal	43	2.23	-
2462MHz	Pass	PK	2.4642G	104.38	Inf	-Inf	31.04	3	Horizontal	43	2.23	-
2462MHz	Pass	PK	2.4838G	60.60	74.00	-13.40	31.11	3	Horizontal	43	2.23	-
2462MHz	Pass	AV	4.9246G	51.10	54.00	-2.90	2.38	3	Vertical	355	2.40	-
2462MHz	Pass	PK	4.926G	66.76	74.00	-7.24	2.38	3	Vertical	355	2.40	-
2462MHz	Pass	AV	4.9239G	53.12	54.00	-0.88	2.38	3	Horizontal	29	2.49	-
2462MHz	Pass	PK	4.9255G	68.05	74.00	-5.95	2.38	3	Horizontal	29	2.49	-
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.389998G	53.41	54.00	-0.59	30.77	3	Vertical	79	1.01	-
2422MHz	Pass	AV	2.4248G	90.63	Inf	-Inf	30.90	3	Vertical	79	1.01	-
2422MHz	Pass	AV	2.484G	42.80	54.00	-11.20	31.12	3	Vertical	79	1.01	-
2422MHz	Pass	PK	2.3896G	67.23	74.00	-6.77	30.77	3	Vertical	79	1.01	-
2422MHz	Pass	PK	2.4252G	101.59	Inf	-Inf	30.90	3	Vertical	79	1.01	-
2422MHz	Pass	PK	2.4964G	55.99	74.00	-18.01	31.16	3	Vertical	79	1.01	-



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
2422MHz	Pass	AV	2.389998G	46.73	54.00	-7.27	30.77	3	Horizontal	196	1.50	-
2422MHz	Pass	AV	2.416G	82.54	Inf	-Inf	30.87	3	Horizontal	196	1.50	-
2422MHz	Pass	AV	2.484G	42.29	54.00	-11.71	31.12	3	Horizontal	196	1.50	-
2422MHz	Pass	PK	2.3864G	59.29	74.00	-14.71	30.76	3	Horizontal	196	1.50	-
2422MHz	Pass	PK	2.4152G	93.41	Inf	-Inf	30.86	3	Horizontal	196	1.50	-
2422MHz	Pass	PK	2.4872G	55.89	74.00	-18.11	31.12	3	Horizontal	196	1.50	-
2422MHz	Pass	AV	4.8439G	39.76	54.00	-14.24	2.18	3	Vertical	344	2.44	-
2422MHz	Pass	PK	4.843G	54.62	74.00	-19.38	2.18	3	Vertical	344	2.44	-
2422MHz	Pass	AV	4.8442G	41.33	54.00	-12.67	2.18	3	Horizontal	32	2.32	-
2422MHz	Pass	PK	4.8447G	55.48	74.00	-18.52	2.18	3	Horizontal	32	2.32	-
2427MHz	Pass	AV	2.3898G	53.53	54.00	-0.47	30.77	3	Vertical	79	1.00	-
2427MHz	Pass	AV	2.4234G	91.71	Inf	-Inf	30.89	3	Vertical	79	1.00	-
2427MHz	Pass	AV	2.483502G	43.42	54.00	-10.58	31.11	3	Vertical	79	1.00	-
2427MHz	Pass	PK	2.3894G	68.99	74.00	-5.01	30.77	3	Vertical	79	1.00	-
2427MHz	Pass	PK	2.4238G	102.66	Inf	-Inf	30.90	3	Vertical	79	1.00	-
2427MHz	Pass	PK	2.4858G	55.98	74.00	-18.02	31.12	3	Vertical	79	1.00	-
2427MHz	Pass	AV	2.3898G	47.71	54.00	-6.29	30.77	3	Horizontal	122	1.84	-
2427MHz	Pass	AV	2.4334G	84.84	Inf	-Inf	30.93	3	Horizontal	122	1.84	-
2427MHz	Pass	AV	2.4842G	42.39	54.00	-11.61	31.12	3	Horizontal	122	1.84	-
2427MHz	Pass	PK	2.3898G	60.46	74.00	-13.54	30.77	3	Horizontal	122	1.84	-
2427MHz	Pass	PK	2.4218G	96.10	Inf	-Inf	30.89	3	Horizontal	122	1.84	-
2427MHz	Pass	PK	2.4902G	55.39	74.00	-18.61	31.13	3	Horizontal	122	1.84	-
2432MHz	Pass	AV	2.389998G	53.52	54.00	-0.48	30.77	3	Vertical	47	1.00	-
2432MHz	Pass	AV	2.4272G	92.73	Inf	-Inf	30.91	3	Vertical	47	1.00	-
2432MHz	Pass	AV	2.483502G	44.59	54.00	-9.41	31.11	3	Vertical	47	1.00	-
2432MHz	Pass	PK	2.389998G	67.73	74.00	-6.27	30.77	3	Vertical	47	1.00	-
2432MHz	Pass	PK	2.4352G	103.36	Inf	-Inf	30.94	3	Vertical	47	1.00	-
2432MHz	Pass	PK	2.4856G	58.01	74.00	-15.99	31.12	3	Vertical	47	1.00	-
2432MHz	Pass	AV	2.389998G	46.20	54.00	-7.80	30.77	3	Horizontal	27	2.29	-
2432MHz	Pass	AV	2.4372G	87.35	Inf	-Inf	30.94	3	Horizontal	27	2.29	-
2432MHz	Pass	AV	2.483502G	42.91	54.00	-11.09	31.11	3	Horizontal	27	2.29	-
2432MHz	Pass	PK	2.3892G	59.67	74.00	-14.33	30.77	3	Horizontal	27	2.29	-
2432MHz	Pass	PK	2.4376G	98.27	Inf	-Inf	30.95	3	Horizontal	27	2.29	-
2432MHz	Pass	PK	2.4984G	55.96	74.00	-18.04	31.17	3	Horizontal	27	2.29	-
2437MHz	Pass	AV	2.3898G	53.07	54.00	-0.93	30.77	3	Vertical	45	1.00	-
2437MHz	Pass	AV	2.4418G	94.55	Inf	-Inf	30.96	3	Vertical	45	1.00	-
2437MHz	Pass	AV	2.483502G	48.22	54.00	-5.78	31.11	3	Vertical	45	1.00	-
2437MHz	Pass	PK	2.3898G	68.29	74.00	-5.71	30.77	3	Vertical	45	1.00	-
2437MHz	Pass	PK	2.4326G	105.32	Inf	-Inf	30.93	3	Vertical	45	1.00	-
2437MHz	Pass	PK	2.485G	62.51	74.00	-11.49	31.12	3	Vertical	45	1.00	-
2437MHz	Pass	AV	2.3898G	45.54	54.00	-8.46	30.77	3	Horizontal	43	2.29	-
2437MHz	Pass	AV	2.4398G	89.24	Inf	-Inf	30.95	3	Horizontal	43	2.29	-
2437MHz	Pass	AV	2.483502G	44.01	54.00	-9.99	31.11	3	Horizontal	43	2.29	-
2437MHz	Pass	PK	2.3898G	58.23	74.00	-15.77	30.77	3	Horizontal	43	2.29	-
2437MHz	Pass	PK	2.4438G	100.09	Inf	-Inf	30.97	3	Horizontal	43	2.29	-
2437MHz	Pass	PK	2.483502G	57.32	74.00	-16.68	31.11	3	Horizontal	43	2.29	-
2437MHz	Pass	AV	4.874G	46.32	54.00	-7.68	2.26	3	Vertical	344	2.44	-
2437MHz	Pass	PK	4.8758G	61.49	74.00	-12.51	2.26	3	Vertical	344	2.44	-
2437MHz	Pass	AV	4.8741G	47.97	54.00	-6.03	2.26	3	Horizontal	31	2.41	-



RSE TX above 1GHz Result

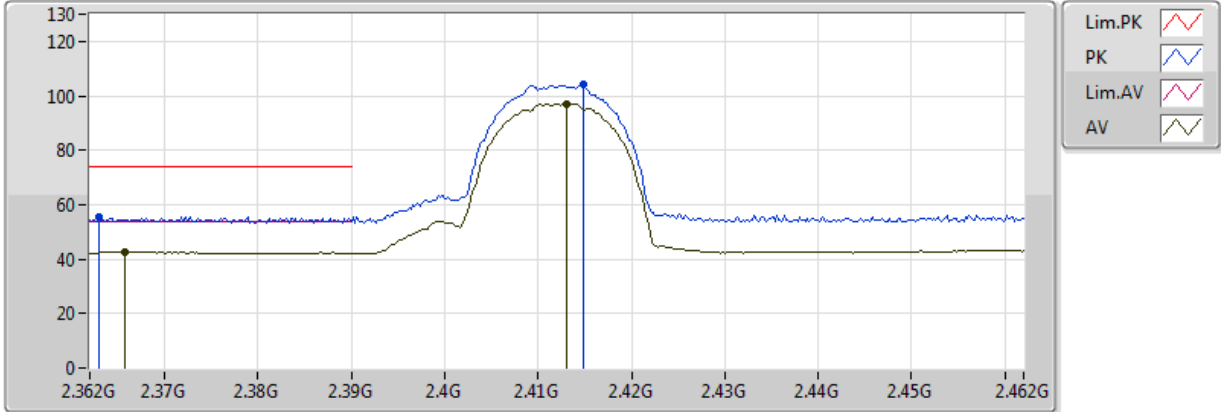
Appendix F.2

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	4.877G	61.98	74.00	-12.02	2.26	3	Horizontal	31	2.41	-
2452MHz	Pass	AV	2.389998G	43.30	54.00	-10.70	30.77	3	Vertical	47	1.12	-
2452MHz	Pass	AV	2.4568G	94.51	Inf	-Inf	31.01	3	Vertical	47	1.12	-
2452MHz	Pass	AV	2.483502G	52.82	54.00	-1.18	31.11	3	Vertical	47	1.12	-
2452MHz	Pass	PK	2.3864G	56.92	74.00	-17.08	30.76	3	Vertical	47	1.12	-
2452MHz	Pass	PK	2.4584G	105.61	Inf	-Inf	31.02	3	Vertical	47	1.12	-
2452MHz	Pass	PK	2.483502G	66.29	74.00	-7.71	31.11	3	Vertical	47	1.12	-
2452MHz	Pass	AV	2.389998G	41.96	54.00	-12.04	30.77	3	Horizontal	43	2.31	-
2452MHz	Pass	AV	2.4444G	88.78	Inf	-Inf	30.97	3	Horizontal	43	2.31	-
2452MHz	Pass	AV	2.483502G	46.34	54.00	-7.66	31.11	3	Horizontal	43	2.31	-
2452MHz	Pass	PK	2.3784G	56.15	74.00	-17.85	30.73	3	Horizontal	43	2.31	-
2452MHz	Pass	PK	2.4436G	99.65	Inf	-Inf	30.97	3	Horizontal	43	2.31	-
2452MHz	Pass	PK	2.483502G	58.75	74.00	-15.25	31.11	3	Horizontal	43	2.31	-
2452MHz	Pass	AV	4.9085G	47.01	54.00	-6.99	2.34	3	Vertical	338	2.25	-
2452MHz	Pass	PK	4.9048G	61.65	74.00	-12.35	2.33	3	Vertical	338	2.25	-
2452MHz	Pass	AV	4.9089G	48.02	54.00	-5.98	2.34	3	Horizontal	34	2.47	-
2452MHz	Pass	PK	4.9028G	62.52	74.00	-11.48	2.33	3	Horizontal	34	2.47	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

27/07/2018

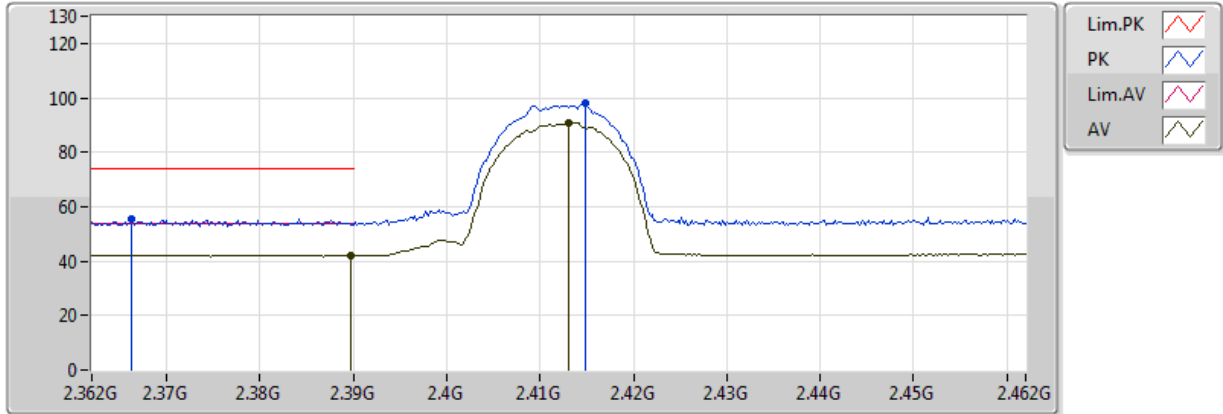


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3658G	42.77	54.00	-11.23	30.69	3	Vertical	63	1.45	-
AV	2.413G	97.09	Inf	-Inf	30.86	3	Vertical	63	1.45	-
PK	2.363G	55.53	74.00	-18.47	30.68	3	Vertical	63	1.45	-
PK	2.4148G	104.27	Inf	-Inf	30.86	3	Vertical	63	1.45	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

27/07/2018

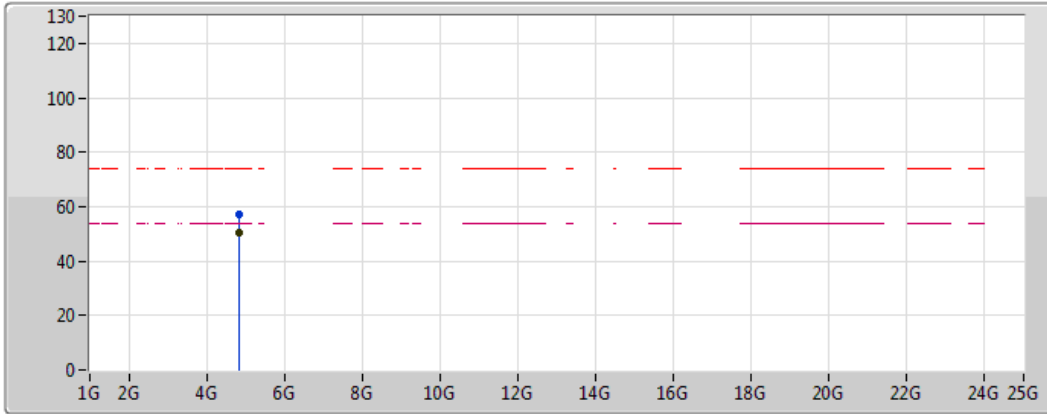






Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	42.20	54.00	-11.80	30.77	3	Horizontal	226	1.31	-
AV	2.413G	90.64	Inf	-Inf	30.86	3	Horizontal	226	1.31	-
PK	2.3662G	55.58	74.00	-18.42	30.70	3	Horizontal	226	1.31	-
PK	2.4148G	98.08	Inf	-Inf	30.86	3	Horizontal	226	1.31	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

27/07/2018



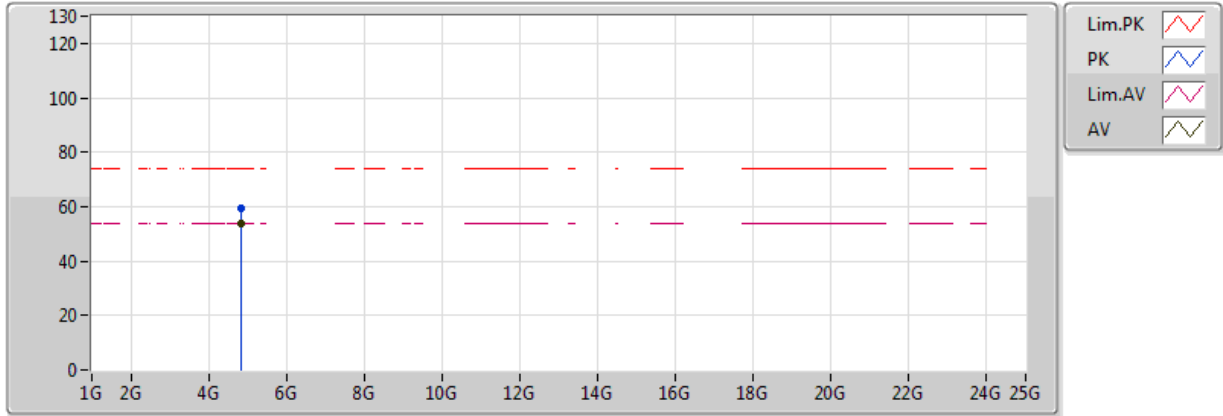
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8292G	50.71	54.00	-3.29	2.14	3	Vertical	329	2.57	-
PK	4.8295G	57.18	74.00	-16.82	2.14	3	Vertical	329	2.57	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

27/07/2018

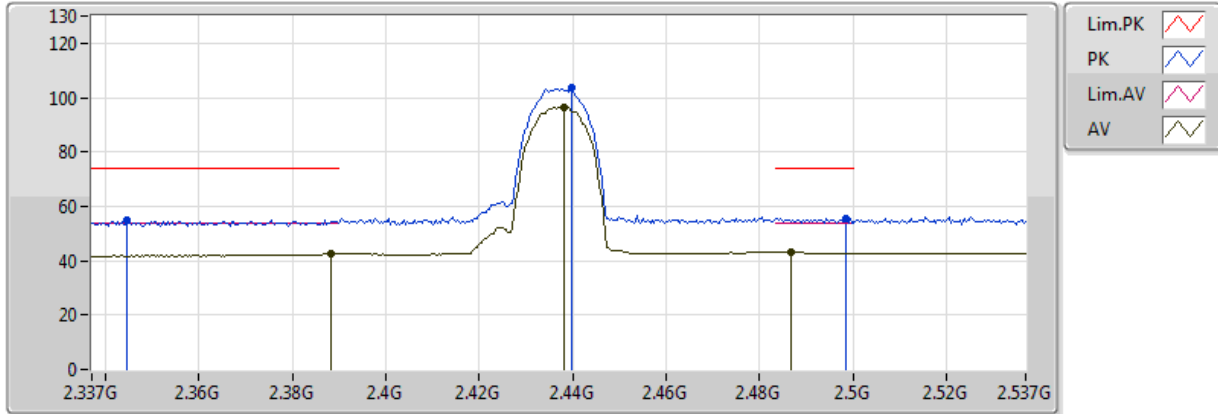


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8292G	53.62	54.00	-0.38	2.14	3	Horizontal	43	2.45	-
PK	4.8296G	59.51	74.00	-14.49	2.14	3	Horizontal	43	2.45	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

28/07/2018

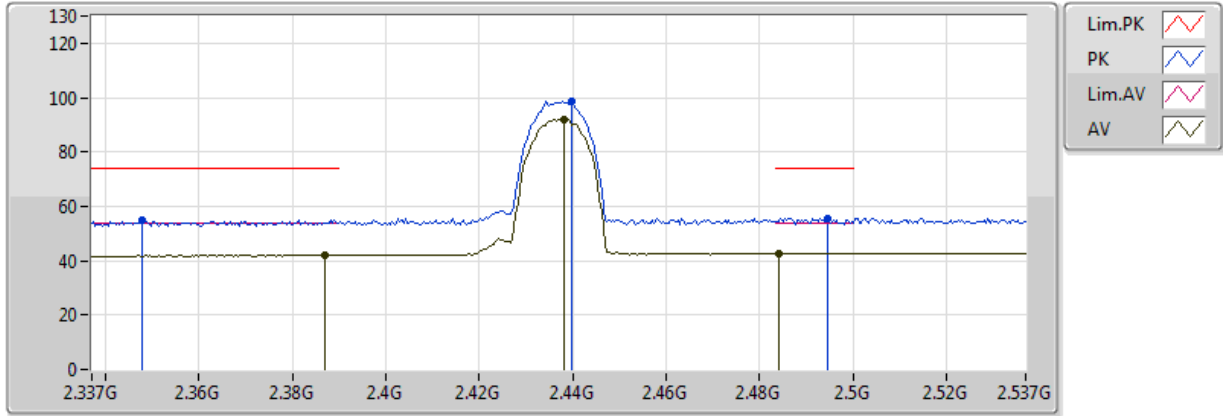


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3882G	42.54	54.00	-11.46	30.77	3	Vertical	69	1.50	-
AV	2.4382G	96.48	Inf	-Inf	30.95	3	Vertical	69	1.50	-
AV	2.4866G	43.22	54.00	-10.78	31.12	3	Vertical	69	1.50	-
PK	2.3446G	54.85	74.00	-19.15	30.61	3	Vertical	69	1.50	-
PK	2.4398G	103.53	Inf	-Inf	30.95	3	Vertical	69	1.50	-
PK	2.4986G	55.62	74.00	-18.38	31.17	3	Vertical	69	1.50	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

28/07/2018

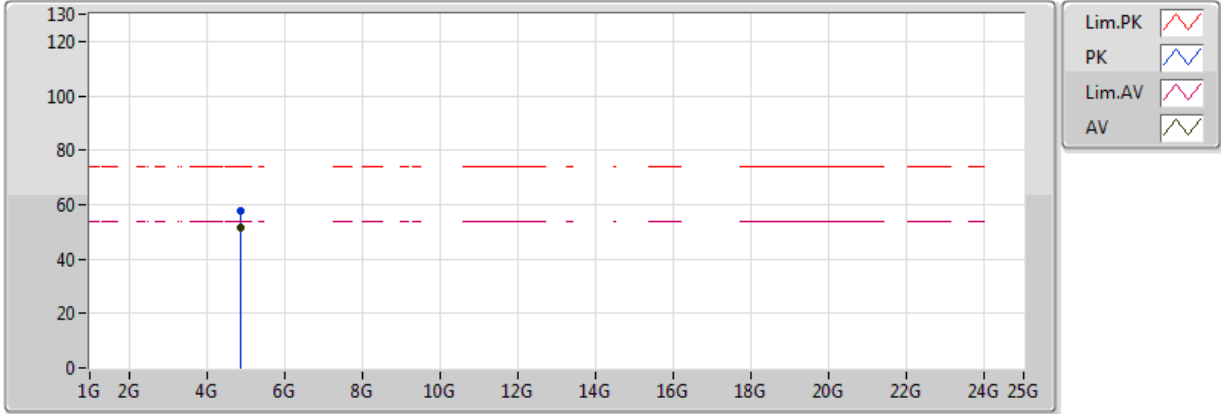


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.387G	42.02	54.00	-11.98	30.76	3	Horizontal	29	2.31	-
AV	2.4382G	91.86	Inf	-Inf	30.95	3	Horizontal	29	2.31	-
AV	2.4842G	42.79	54.00	-11.21	31.12	3	Horizontal	29	2.31	-
PK	2.3478G	55.14	74.00	-18.86	30.62	3	Horizontal	29	2.31	-
PK	2.4398G	98.88	Inf	-Inf	30.95	3	Horizontal	29	2.31	-
PK	2.4946G	55.56	74.00	-18.44	31.15	3	Horizontal	29	2.31	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

28/07/2018

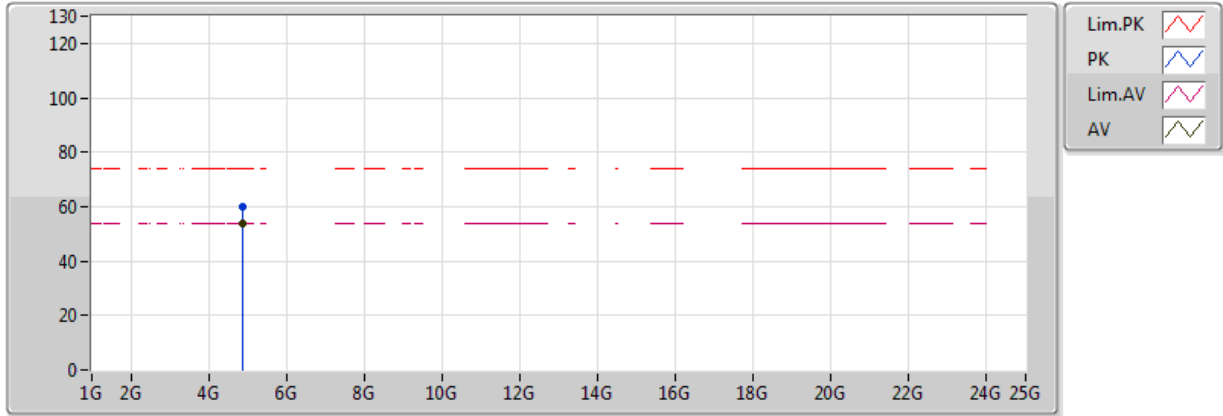


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8792G	51.69	54.00	-2.31	2.27	3	Vertical	334	2.55	-
PK	4.8794G	57.69	74.00	-16.31	2.27	3	Vertical	334	2.55	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

28/07/2018

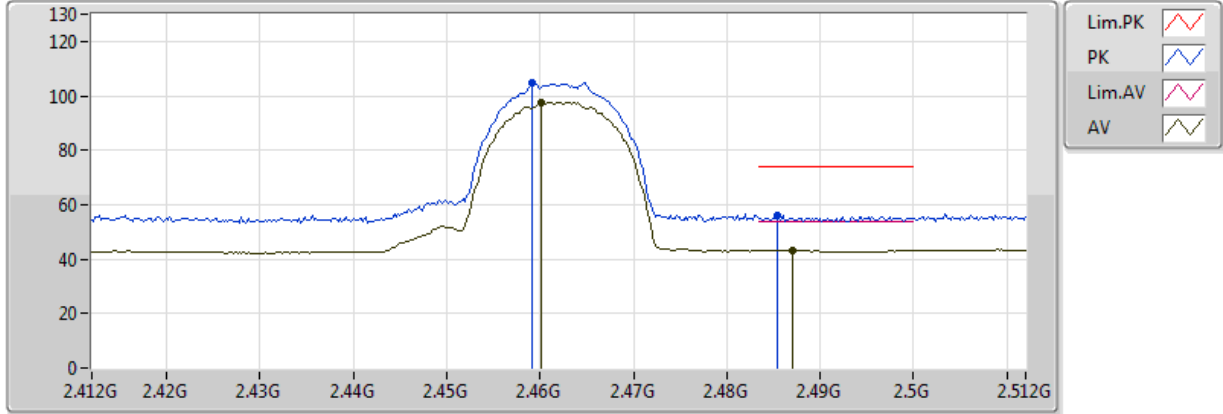


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8792G	53.84	54.00	-0.16	2.27	3	Horizontal	41	2.54	-
PK	4.8796G	60.00	74.00	-14.00	2.27	3	Horizontal	41	2.54	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

28/07/2018

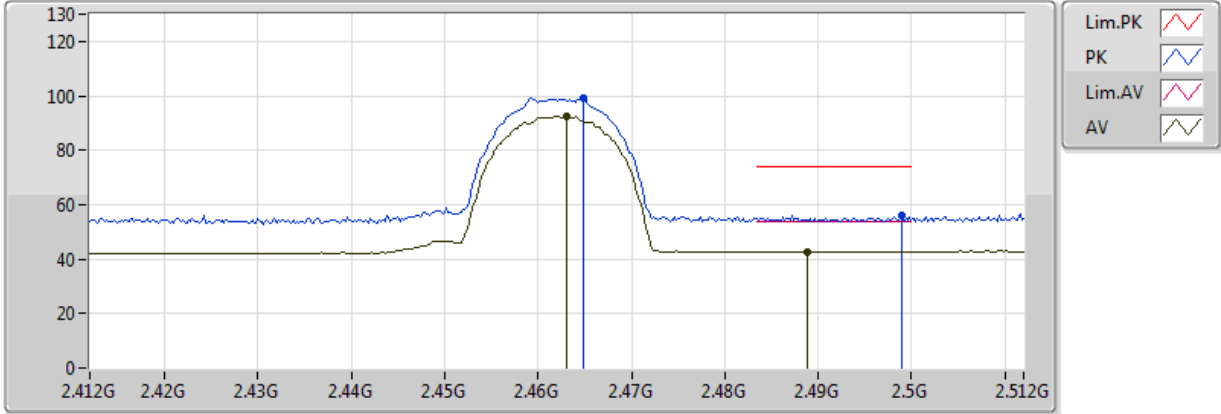


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4602G	97.60	Inf	-Inf	31.03	3	Vertical	46	1.15	-
AV	2.487G	43.14	54.00	-10.86	31.12	3	Vertical	46	1.15	-
PK	2.4592G	104.64	Inf	-Inf	31.02	3	Vertical	46	1.15	-
PK	2.4854G	56.22	74.00	-17.78	31.12	3	Vertical	46	1.15	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

28/07/2018

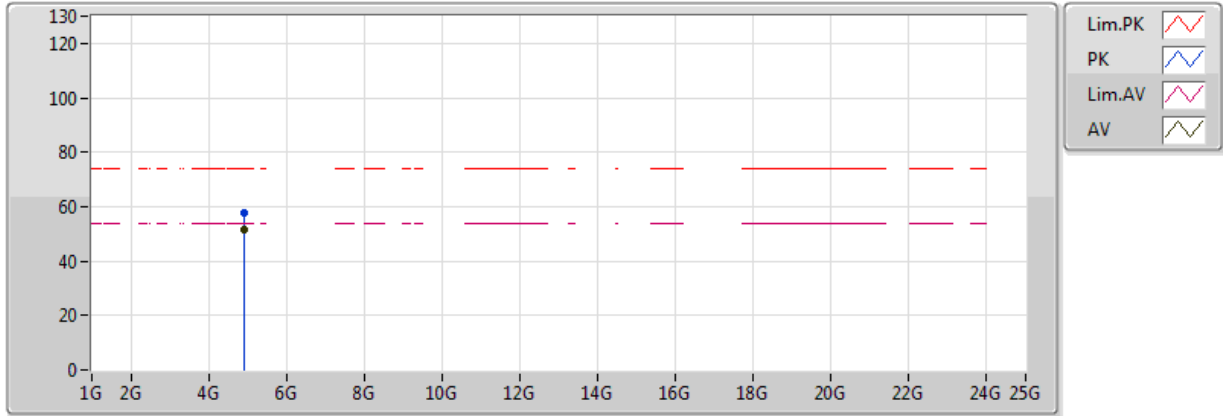


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.463G	92.40	Inf	-Inf	31.04	3	Horizontal	143	2.49	-
AV	2.4888G	42.80	54.00	-11.20	31.13	3	Horizontal	143	2.49	-
PK	2.4648G	99.44	Inf	-Inf	31.04	3	Horizontal	143	2.49	-
PK	2.499G	56.23	74.00	-17.77	31.17	3	Horizontal	143	2.49	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

28/07/2018

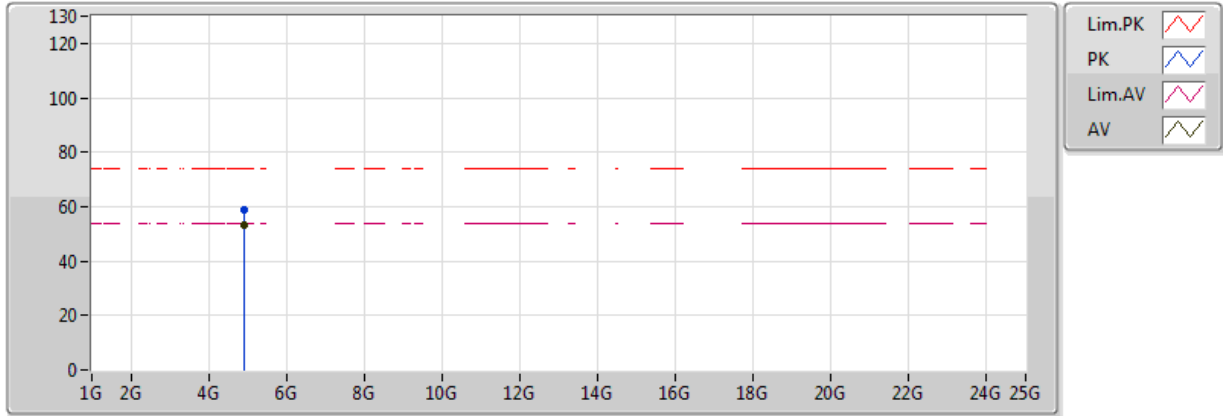


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9189G	51.64	54.00	-2.36	2.37	3	Vertical	343	2.68	-
PK	4.9185G	57.93	74.00	-16.07	2.37	3	Vertical	343	2.68	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

28/07/2018

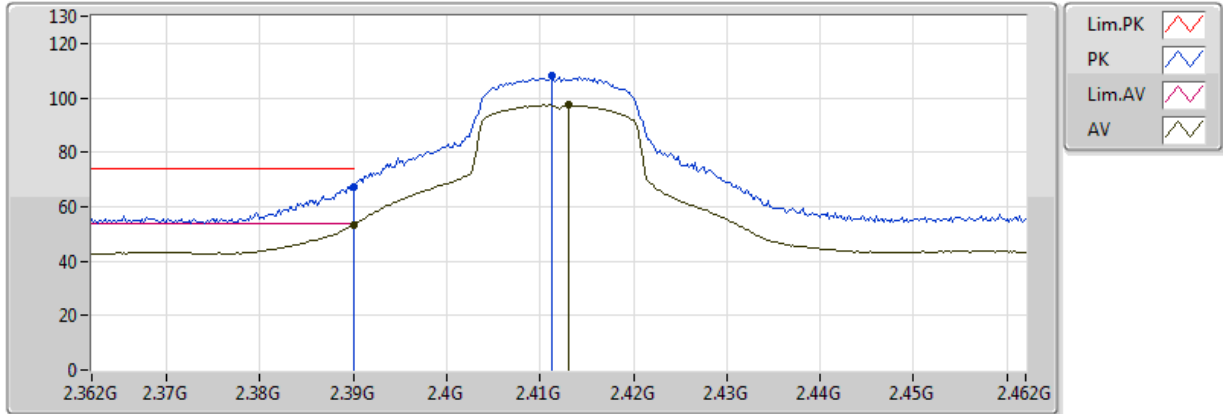


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9188G	53.23	54.00	-0.77	2.37	3	Horizontal	35	2.59	-
PK	4.9185G	59.07	74.00	-14.93	2.37	3	Horizontal	35	2.59	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

28/07/2018

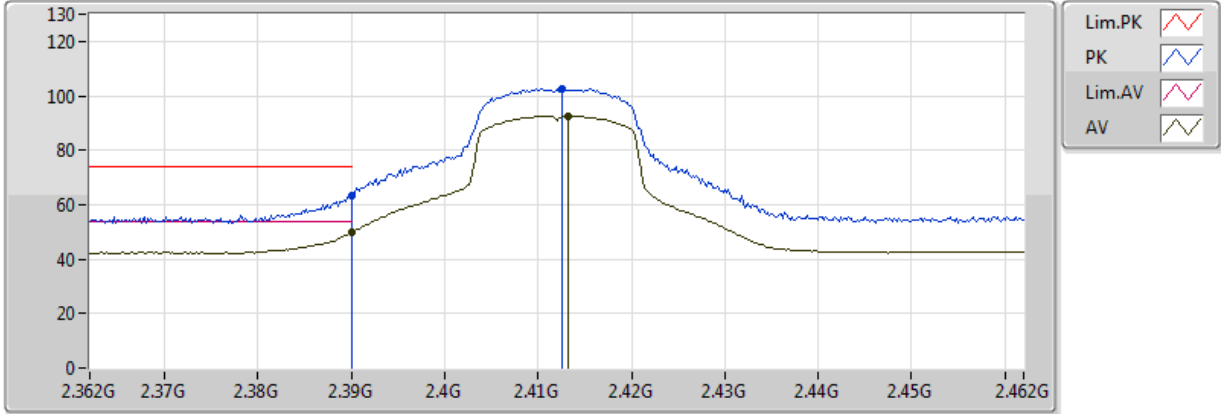


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.36	54.00	-0.64	30.77	3	Vertical	71	1.50	-
AV	2.413G	97.38	Inf	-Inf	30.86	3	Vertical	71	1.50	-
PK	2.389998G	67.47	74.00	-6.53	30.77	3	Vertical	71	1.50	-
PK	2.4112G	107.90	Inf	-Inf	30.85	3	Vertical	71	1.50	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

28/07/2018

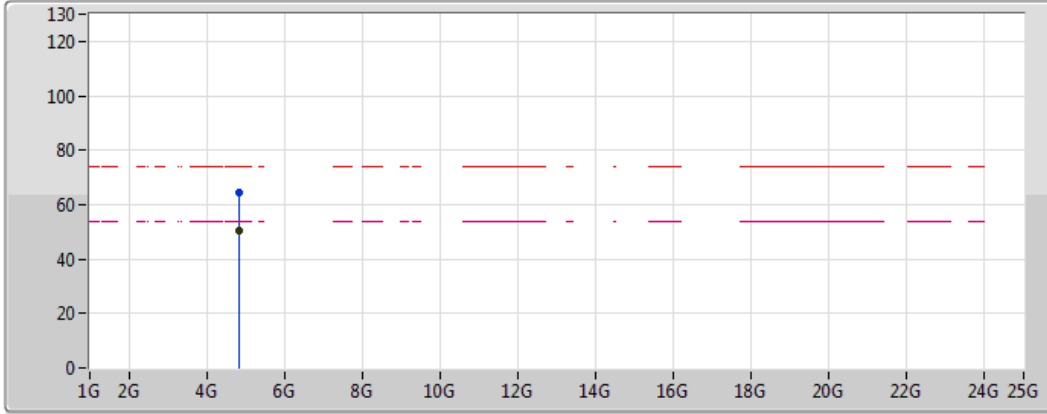






Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	49.82	54.00	-4.18	30.77	3	Horizontal	128	2.38	-
AV	2.4132G	92.63	Inf	-Inf	30.86	3	Horizontal	128	2.38	-
PK	2.389998G	63.18	74.00	-10.82	30.77	3	Horizontal	128	2.38	-
PK	2.4126G	102.48	Inf	-Inf	30.86	3	Horizontal	128	2.38	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

28/07/2018



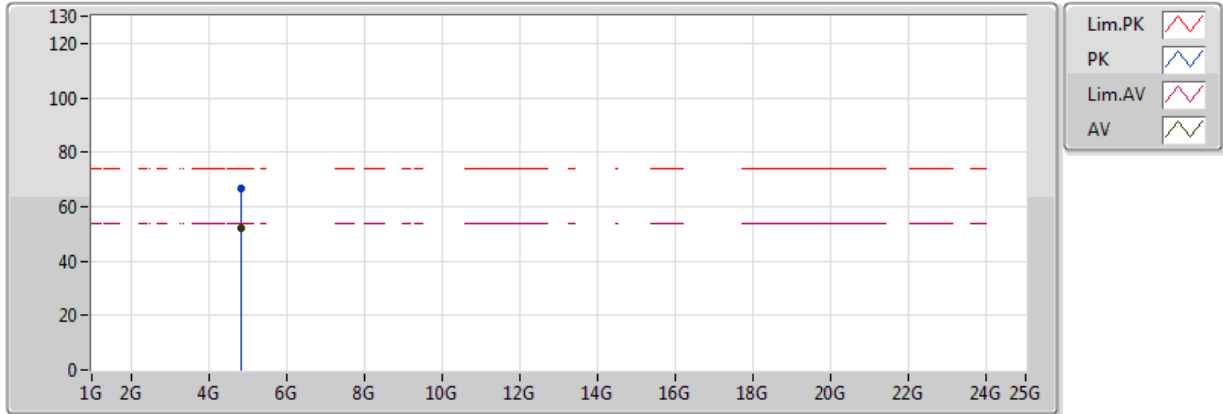
Lim.PK	
PK	
Lim.AV	
AV	

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8236G	50.40	54.00	-3.60	2.13	3	Vertical	337	2.75	-
PK	4.8294G	64.48	74.00	-9.52	2.14	3	Vertical	337	2.75	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

28/07/2018

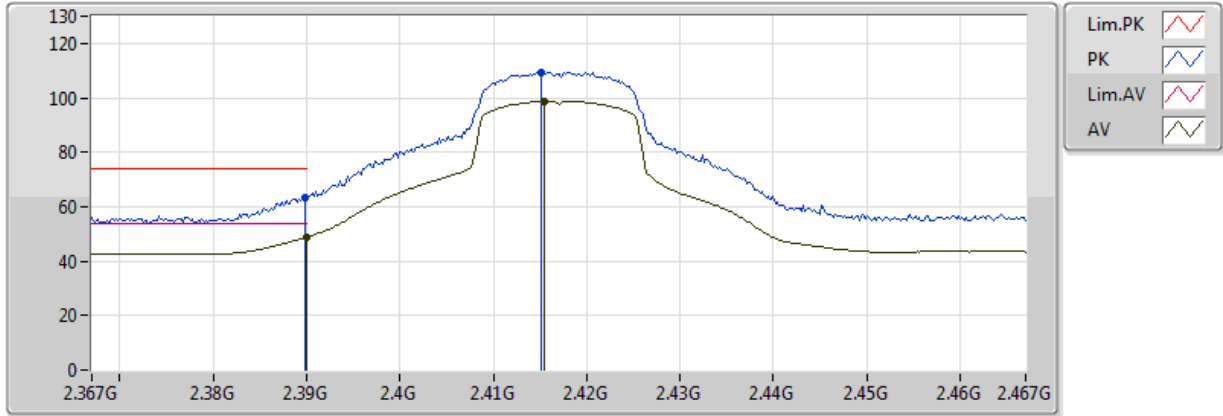


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8246G	52.16	54.00	-1.84	2.13	3	Horizontal	36	2.41	-
PK	4.8301G	66.69	74.00	-7.31	2.15	3	Horizontal	36	2.41	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

28/07/2018

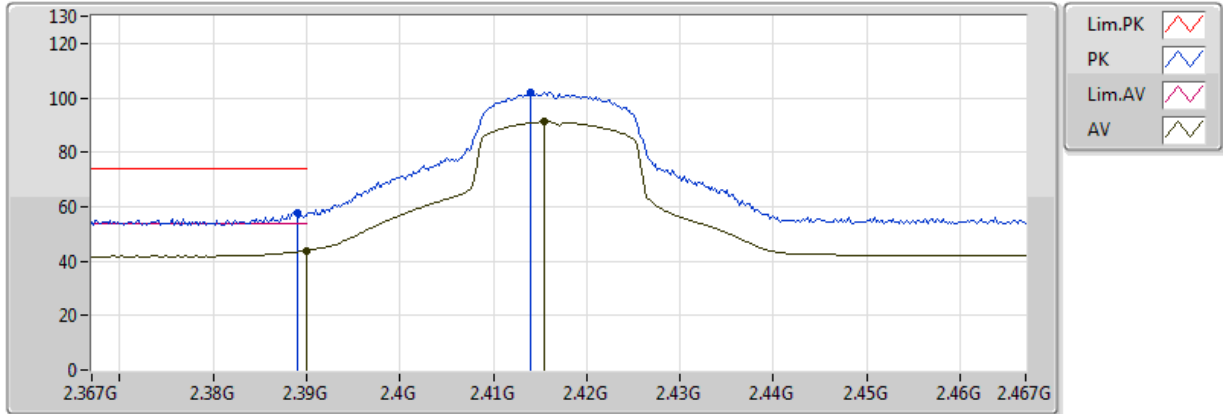


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	48.82	54.00	-5.18	30.77	3	Vertical	83	1.22	-
AV	2.4154G	98.78	Inf	-Inf	30.87	3	Vertical	83	1.22	-
PK	2.3898G	63.54	74.00	-10.46	30.77	3	Vertical	83	1.22	-
PK	2.4152G	109.40	Inf	-Inf	30.86	3	Vertical	83	1.22	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

28/07/2018

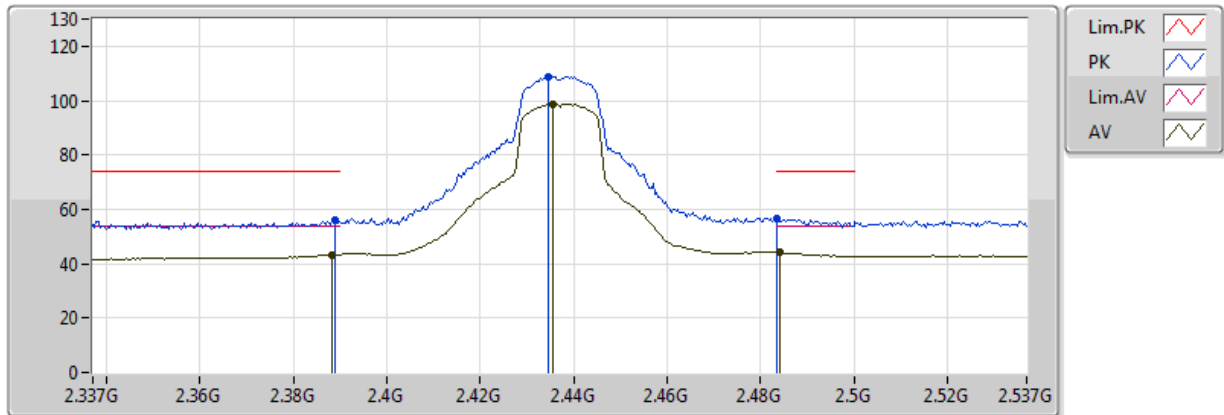


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	43.87	54.00	-10.13	30.77	3	Horizontal	197	1.50	-
AV	2.4154G	91.10	Inf	-Inf	30.87	3	Horizontal	197	1.50	-
PK	2.389G	57.77	74.00	-16.23	30.77	3	Horizontal	197	1.50	-
PK	2.414G	101.91	Inf	-Inf	30.86	3	Horizontal	197	1.50	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

28/07/2018

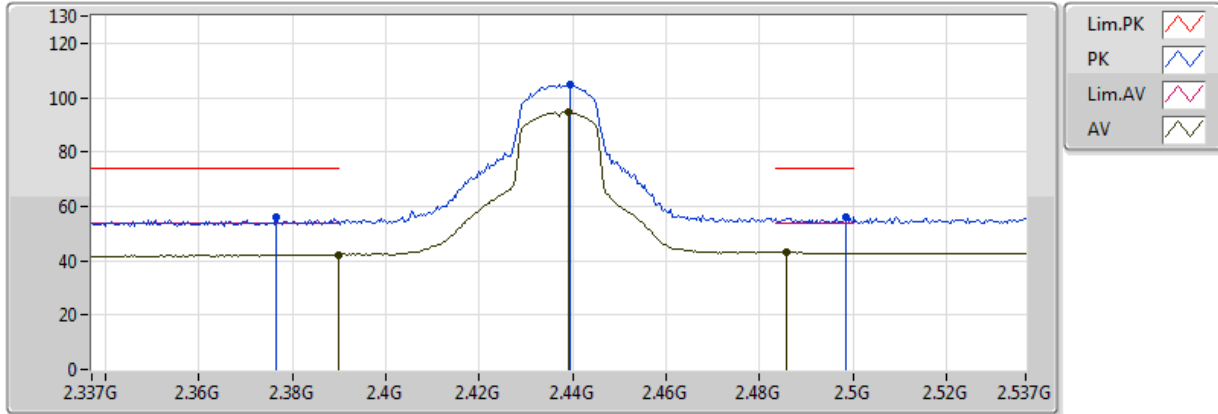


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3882G	43.39	54.00	-10.61	30.77	3	Vertical	54	1.01	-
AV	2.4354G	98.87	Inf	-Inf	30.94	3	Vertical	54	1.01	-
AV	2.4842G	44.25	54.00	-9.75	31.12	3	Vertical	54	1.01	-
PK	2.389G	55.82	74.00	-18.18	30.77	3	Vertical	54	1.01	-
PK	2.4346G	108.91	Inf	-Inf	30.93	3	Vertical	54	1.01	-
PK	2.483502G	56.65	74.00	-17.35	31.11	3	Vertical	54	1.01	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

28/07/2018

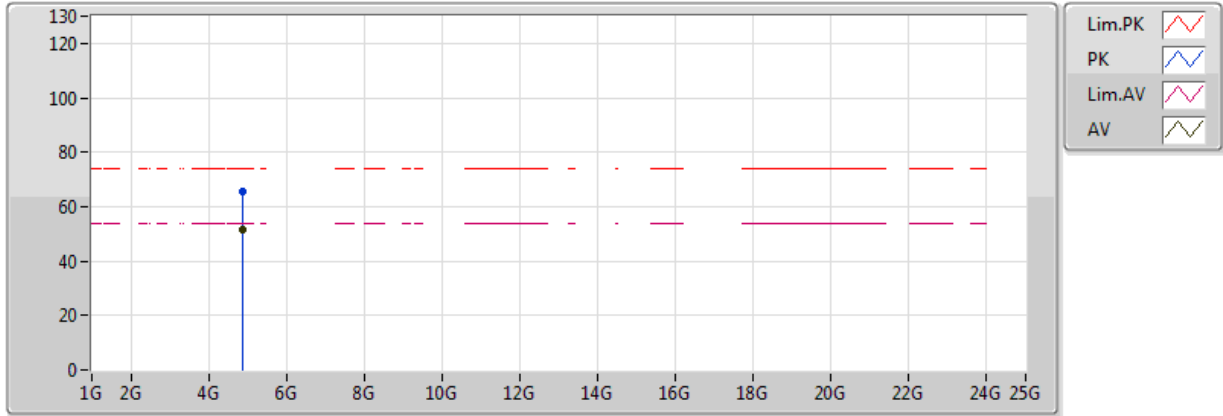


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	42.26	54.00	-11.74	30.77	3	Horizontal	34	2.28	-
AV	2.439G	94.53	Inf	-Inf	30.95	3	Horizontal	34	2.28	-
AV	2.4858G	43.08	54.00	-10.92	31.12	3	Horizontal	34	2.28	-
PK	2.3766G	56.20	74.00	-17.80	30.72	3	Horizontal	34	2.28	-
PK	2.4394G	104.94	Inf	-Inf	30.95	3	Horizontal	34	2.28	-
PK	2.4986G	55.90	74.00	-18.10	31.17	3	Horizontal	34	2.28	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

28/07/2018

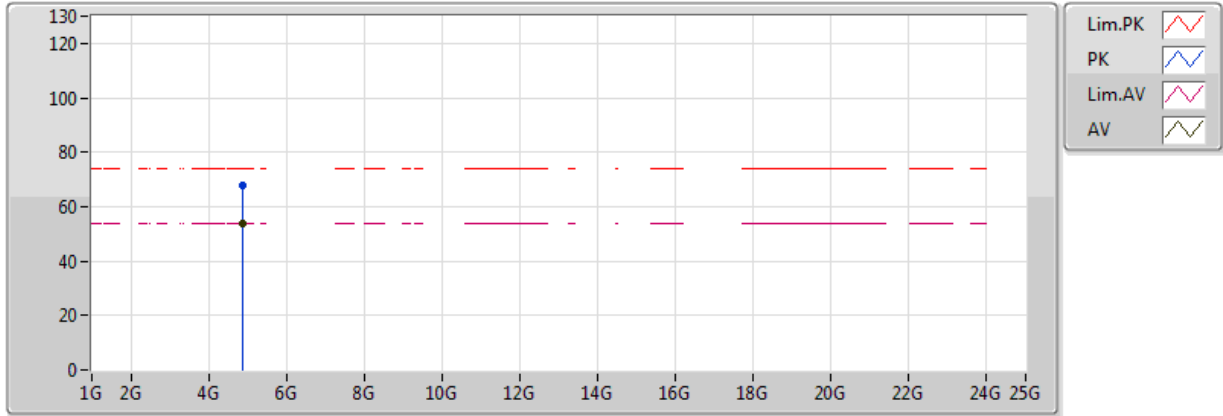


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8747G	51.34	54.00	-2.66	2.26	3	Vertical	337	2.55	-
PK	4.8752G	65.29	74.00	-8.71	2.26	3	Vertical	337	2.55	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

28/07/2018

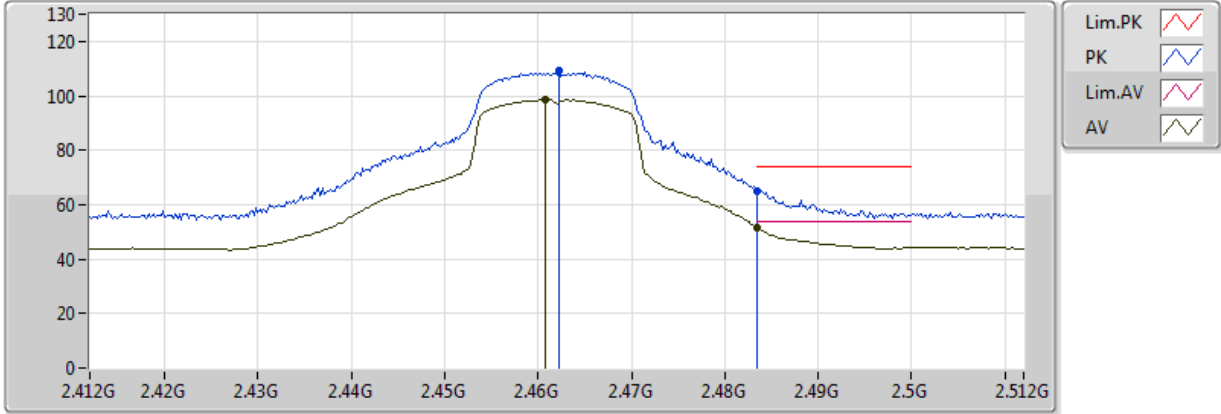


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8754G	53.83	54.00	-0.17	2.26	3	Horizontal	37	2.54	-
PK	4.8694G	67.64	74.00	-6.36	2.24	3	Horizontal	37	2.54	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

28/07/2018

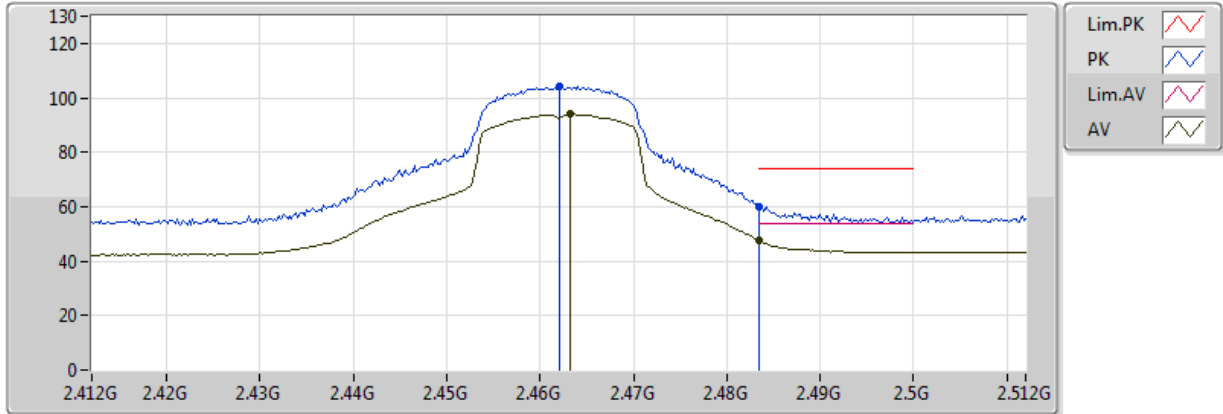


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4608G	98.60	Inf	-Inf	31.03	3	Vertical	72	1.11	-
AV	2.483502G	51.66	54.00	-2.34	31.11	3	Vertical	72	1.11	-
PK	2.4622G	109.18	Inf	-Inf	31.03	3	Vertical	72	1.11	-
PK	2.483502G	64.78	74.00	-9.22	31.11	3	Vertical	72	1.11	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

28/07/2018

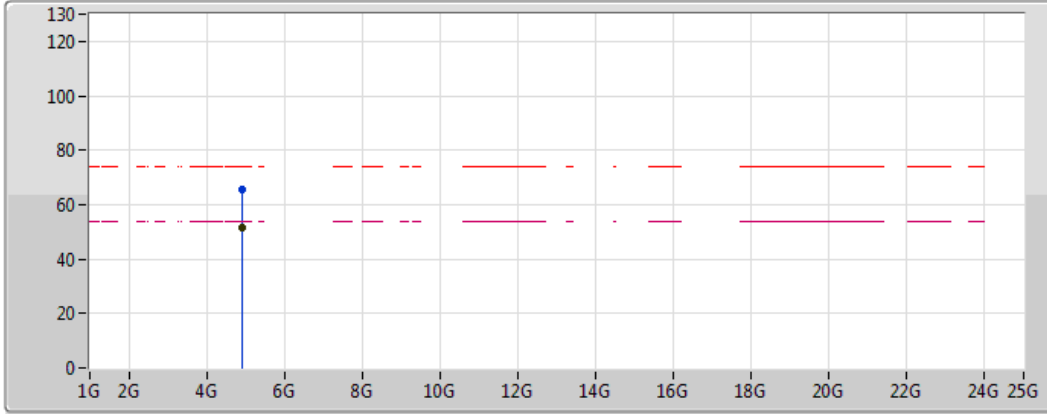


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4632G	93.92	Inf	-Inf	31.04	3	Horizontal	218	1.00	-
AV	2.483502G	47.43	54.00	-6.57	31.11	3	Horizontal	218	1.00	-
PK	2.462G	104.24	Inf	-Inf	31.03	3	Horizontal	218	1.00	-
PK	2.483502G	60.21	74.00	-13.79	31.11	3	Horizontal	218	1.00	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

28/07/2018

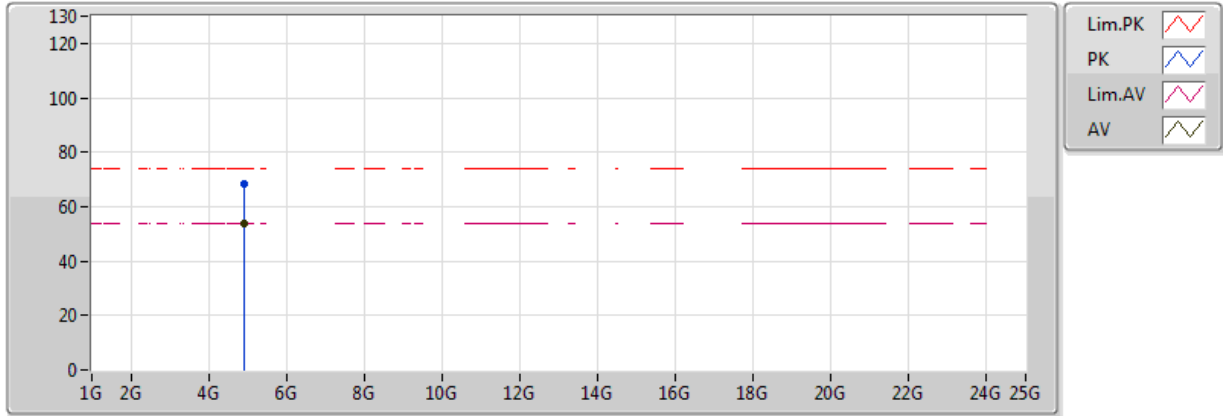


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9235G	51.66	54.00	-2.34	2.38	3	Vertical	338	2.37	-
PK	4.9258G	65.66	74.00	-8.34	2.38	3	Vertical	338	2.37	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

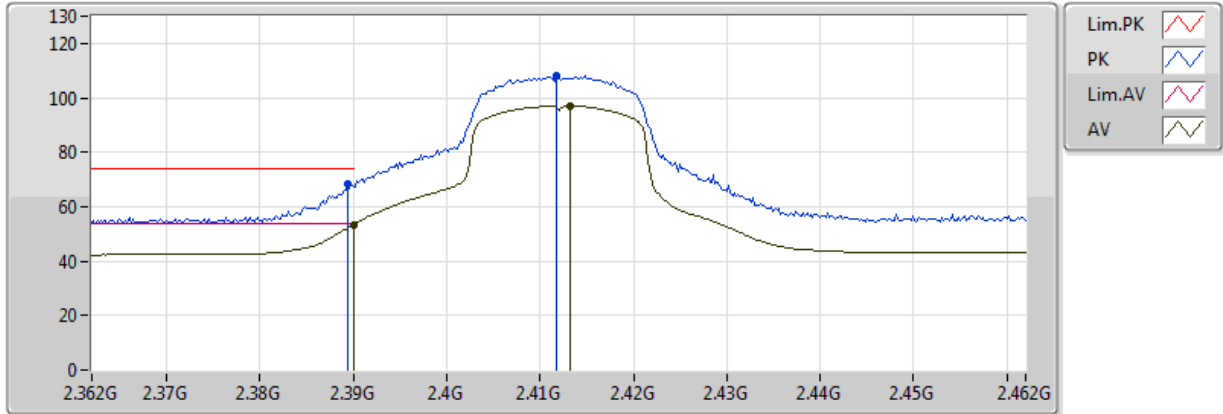
28/07/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.922G	53.86	54.00	-0.14	2.37	3	Horizontal	39	2.50	-
PK	4.923G	68.17	74.00	-5.83	2.38	3	Horizontal	39	2.50	-

**802.11n HT20_Nss1,(MCS0)_2TX
2412MHz_TX**

28/07/2018

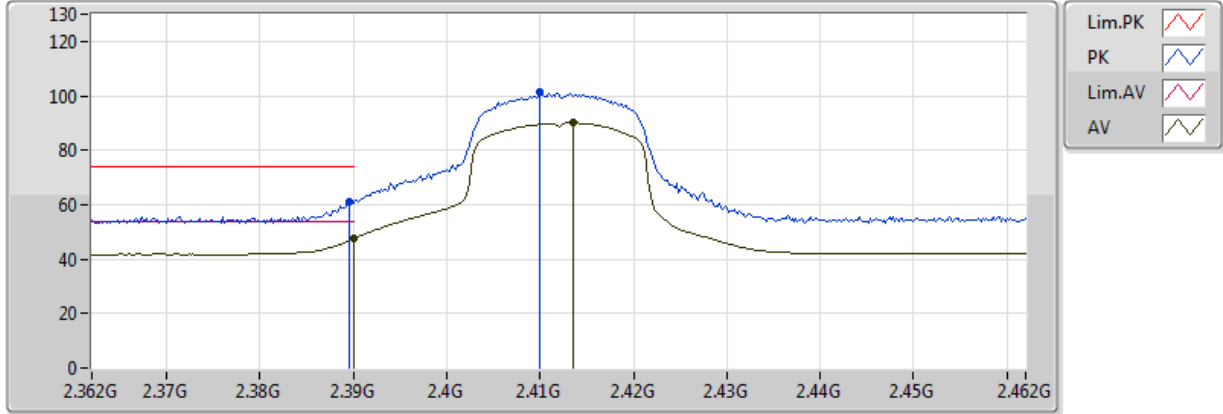


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.36	54.00	-0.64	30.77	3	Vertical	80	1.04	-
AV	2.4132G	96.99	Inf	-Inf	30.86	3	Vertical	80	1.04	-
PK	2.3894G	68.45	74.00	-5.55	30.77	3	Vertical	80	1.04	-
PK	2.4118G	108.19	Inf	-Inf	30.85	3	Vertical	80	1.04	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

28/07/2018

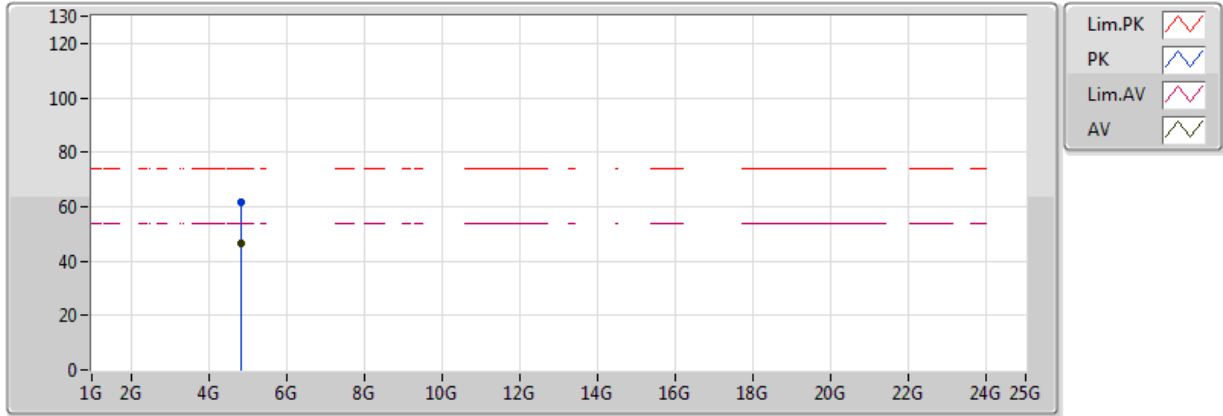


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	47.40	54.00	-6.60	30.77	3	Horizontal	194	1.51	-
AV	2.4136G	90.02	Inf	-Inf	30.86	3	Horizontal	194	1.51	-
PK	2.3896G	61.04	74.00	-12.96	30.77	3	Horizontal	194	1.51	-
PK	2.41G	101.62	Inf	-Inf	30.85	3	Horizontal	194	1.51	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

28/07/2018

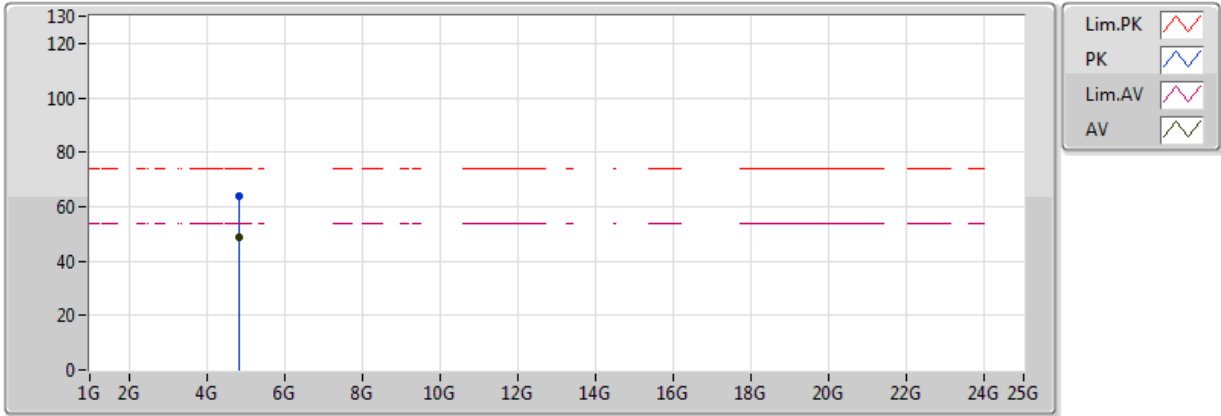


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8255G	46.78	54.00	-7.22	2.13	3	Vertical	330	2.44	-
PK	4.8231G	61.36	74.00	-12.64	2.13	3	Vertical	330	2.44	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

28/07/2018

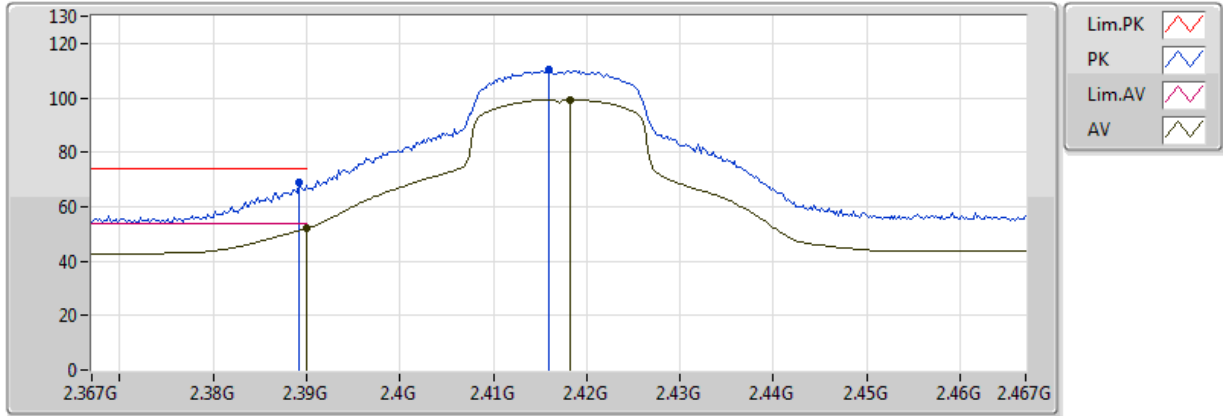


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8238G	48.83	54.00	-5.17	2.13	3	Horizontal	44	1.00	-
PK	4.8238G	63.83	74.00	-10.17	2.13	3	Horizontal	44	1.00	-

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

28/07/2018

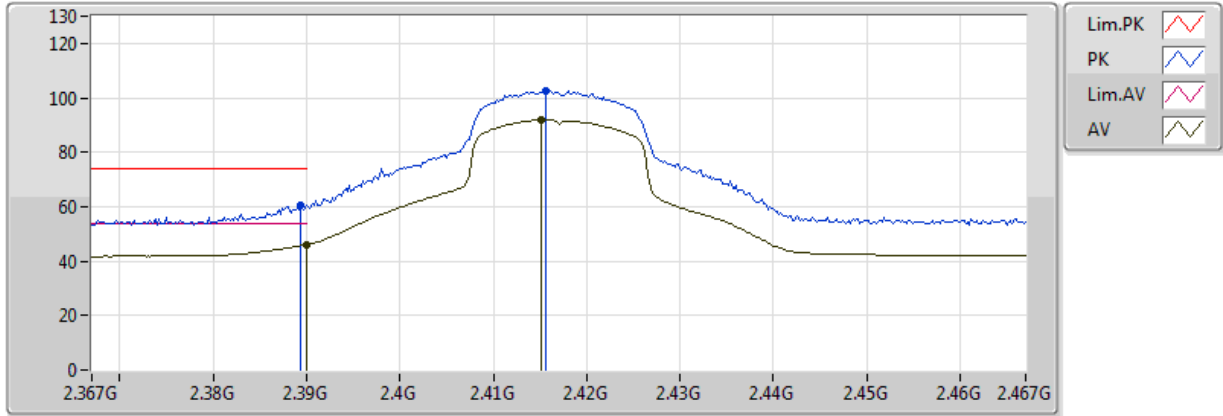


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	52.09	54.00	-1.91	30.77	3	Vertical	79	1.17	-
AV	2.4182G	99.40	Inf	-Inf	30.88	3	Vertical	79	1.17	-
PK	2.3892G	68.81	74.00	-5.19	30.77	3	Vertical	79	1.17	-
PK	2.416G	110.31	Inf	-Inf	30.87	3	Vertical	79	1.17	-

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

28/07/2018

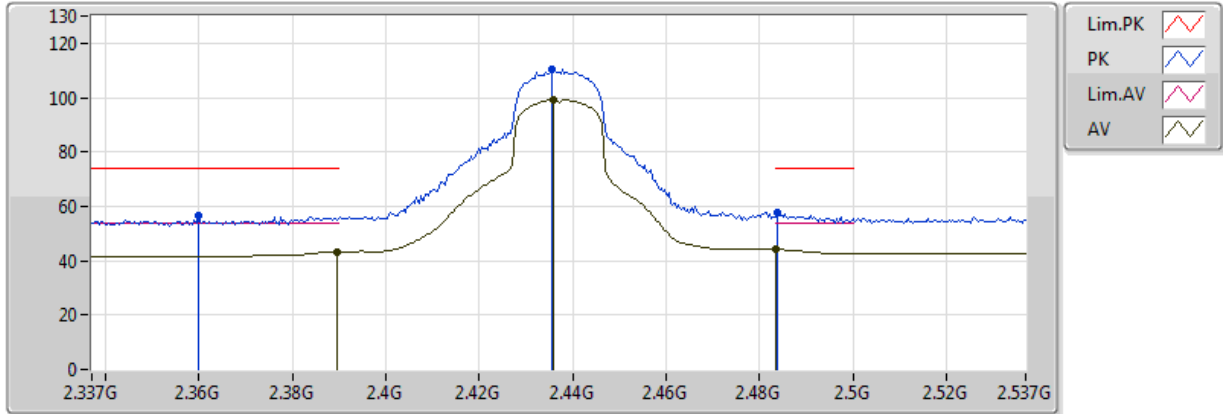


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	45.95	54.00	-8.05	30.77	3	Horizontal	198	1.50	-
AV	2.4152G	91.91	Inf	-Inf	30.86	3	Horizontal	198	1.50	-
PK	2.3894G	60.48	74.00	-13.52	30.77	3	Horizontal	198	1.50	-
PK	2.4156G	102.46	Inf	-Inf	30.87	3	Horizontal	198	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

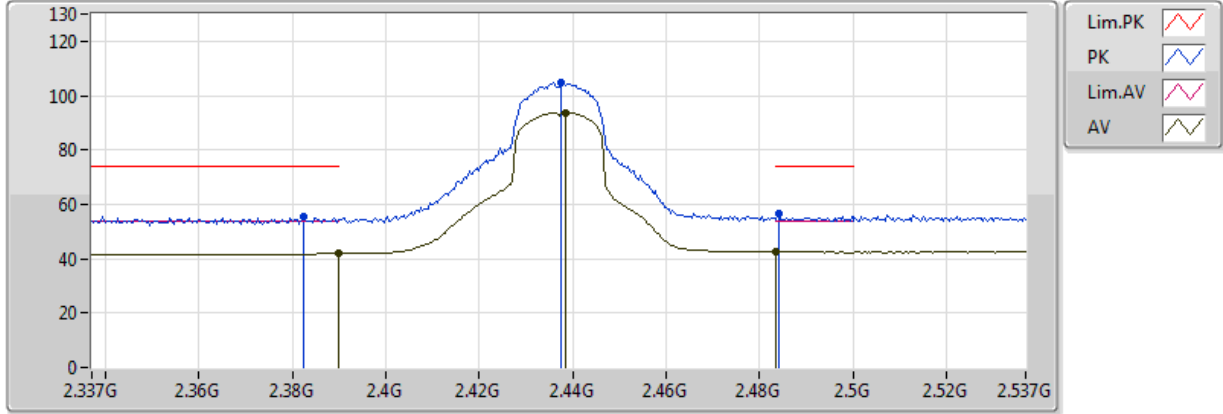
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	43.27	54.00	-10.73	30.77	3	Vertical	46	1.01	-
AV	2.4358G	99.13	Inf	-Inf	30.94	3	Vertical	46	1.01	-
AV	2.483502G	44.18	54.00	-9.82	31.11	3	Vertical	46	1.01	-
PK	2.3598G	56.49	74.00	-17.51	30.67	3	Vertical	46	1.01	-
PK	2.4354G	110.26	Inf	-Inf	30.94	3	Vertical	46	1.01	-
PK	2.4838G	57.54	74.00	-16.46	31.11	3	Vertical	46	1.01	-

**802.11n HT20_Nss1,(MCS0)_2TX
2437MHz_TX**

28/07/2018

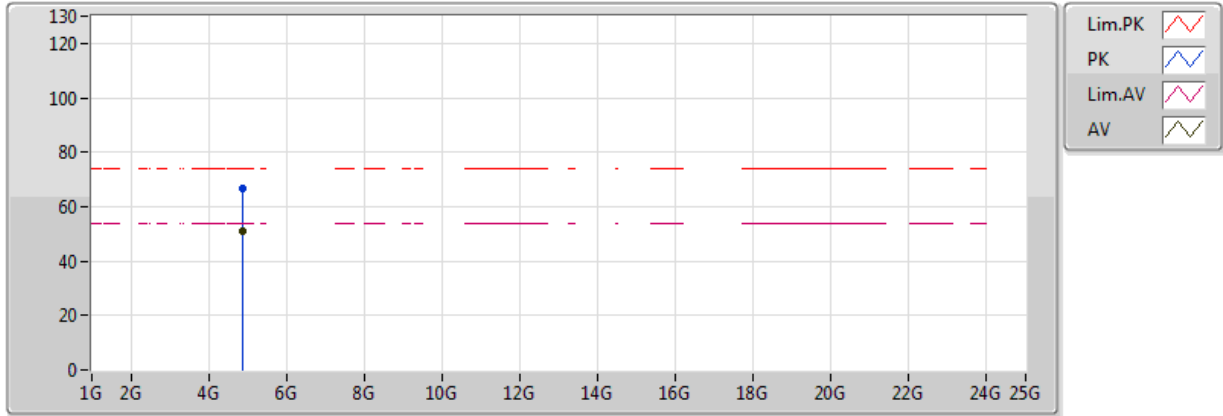


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	41.84	54.00	-12.16	30.77	3	Horizontal	25	2.30	-
AV	2.4386G	93.76	Inf	-Inf	30.95	3	Horizontal	25	2.30	-
AV	2.483502G	42.69	54.00	-11.31	31.11	3	Horizontal	25	2.30	-
PK	2.3822G	55.31	74.00	-18.69	30.75	3	Horizontal	25	2.30	-
PK	2.4374G	104.57	Inf	-Inf	30.94	3	Horizontal	25	2.30	-
PK	2.4842G	56.41	74.00	-17.59	31.12	3	Horizontal	25	2.30	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

28/07/2018

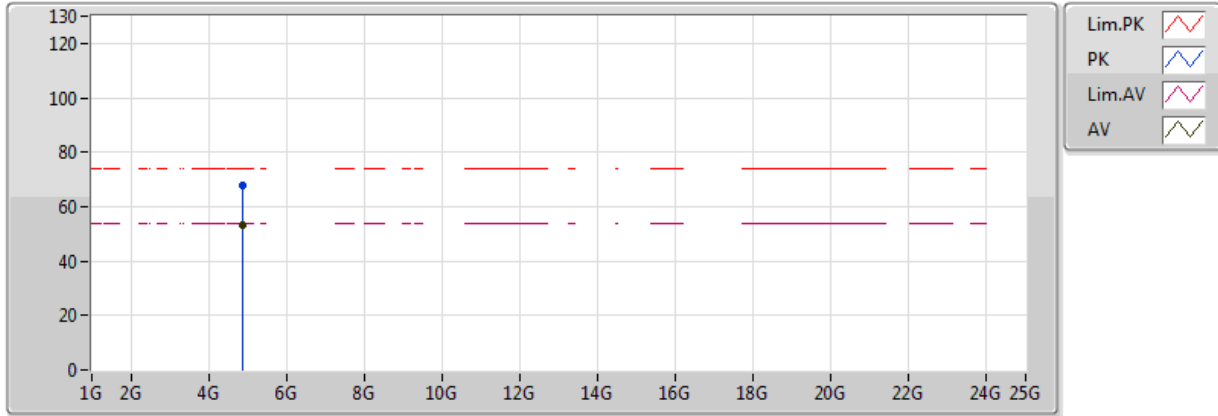


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8751G	51.09	54.00	-2.91	2.26	3	Vertical	330	2.46	-
PK	4.8732G	66.59	74.00	-7.41	2.25	3	Vertical	330	2.46	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

28/07/2018

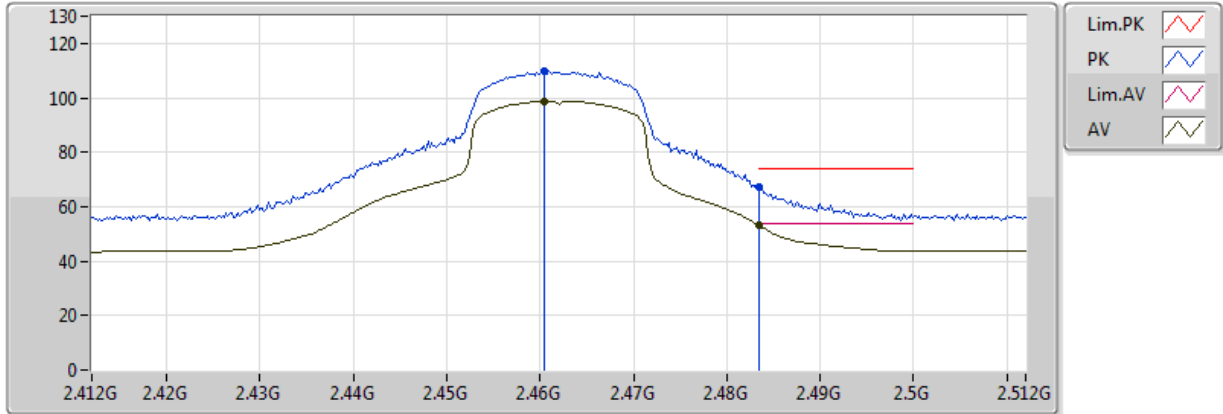


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8748G	53.11	54.00	-0.89	2.26	3	Horizontal	31	2.48	-
PK	4.8782G	67.92	74.00	-6.08	2.27	3	Horizontal	31	2.48	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

28/07/2018

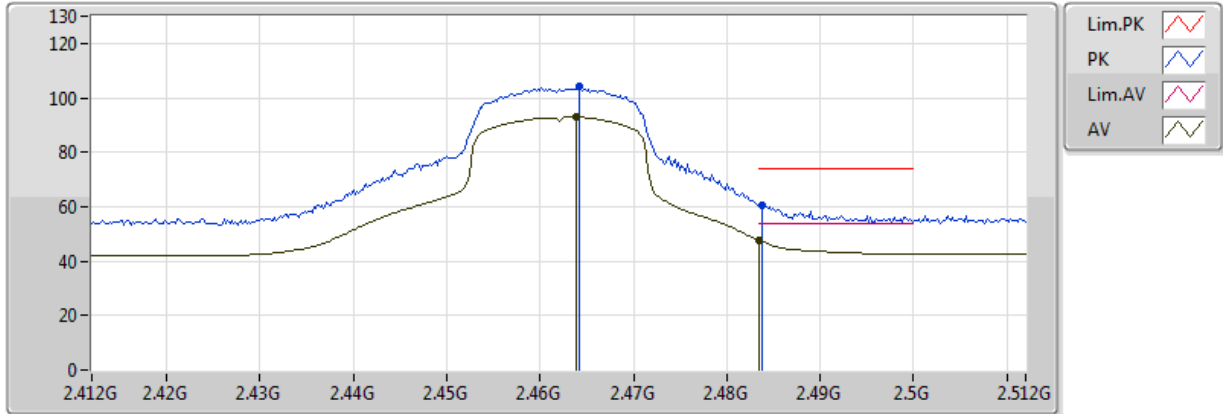


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4604G	98.76	Inf	-Inf	31.03	3	Vertical	44	1.16	-
AV	2.483502G	53.24	54.00	-0.76	31.11	3	Vertical	44	1.16	-
PK	2.4604G	109.92	Inf	-Inf	31.03	3	Vertical	44	1.16	-
PK	2.483502G	67.26	74.00	-6.74	31.11	3	Vertical	44	1.16	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

28/07/2018

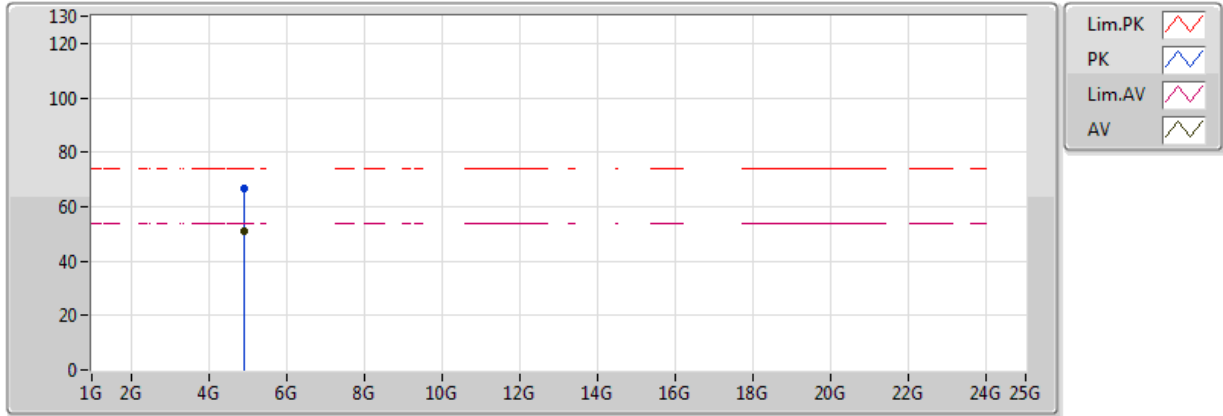


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4638G	92.97	Inf	-Inf	31.04	3	Horizontal	43	2.23	-
AV	2.483502G	47.66	54.00	-6.34	31.11	3	Horizontal	43	2.23	-
PK	2.4642G	104.38	Inf	-Inf	31.04	3	Horizontal	43	2.23	-
PK	2.4838G	60.60	74.00	-13.40	31.11	3	Horizontal	43	2.23	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

28/07/2018

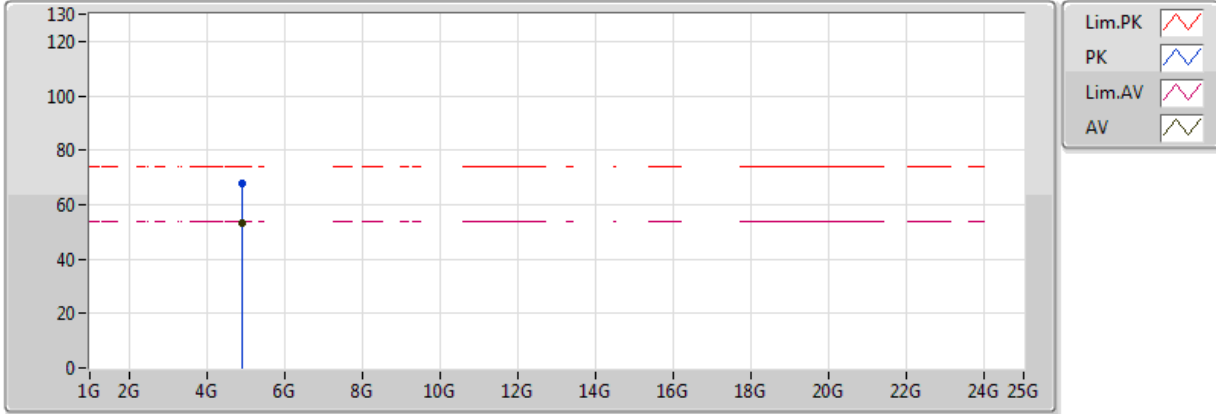


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9246G	51.10	54.00	-2.90	2.38	3	Vertical	355	2.40	-
PK	4.926G	66.76	74.00	-7.24	2.38	3	Vertical	355	2.40	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

28/07/2018

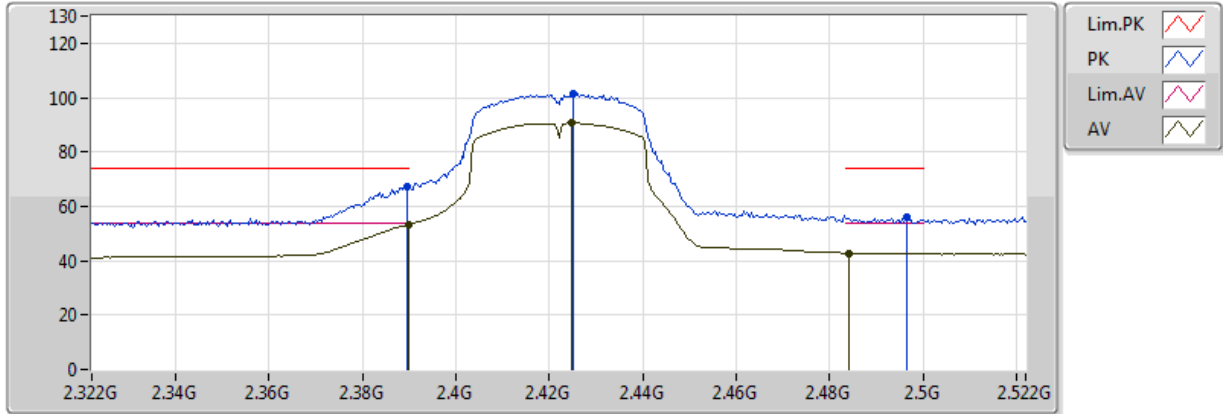


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9239G	53.12	54.00	-0.88	2.38	3	Horizontal	29	2.49	-
PK	4.9255G	68.05	74.00	-5.95	2.38	3	Horizontal	29	2.49	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

28/07/2018

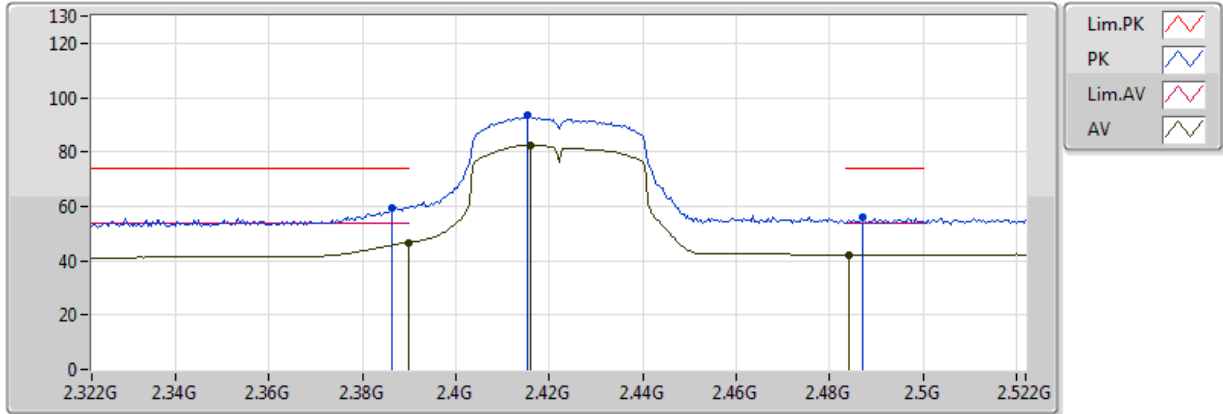


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.41	54.00	-0.59	30.77	3	Vertical	79	1.01	-
AV	2.4248G	90.63	Inf	-Inf	30.90	3	Vertical	79	1.01	-
AV	2.484G	42.80	54.00	-11.20	31.12	3	Vertical	79	1.01	-
PK	2.3896G	67.23	74.00	-6.77	30.77	3	Vertical	79	1.01	-
PK	2.4252G	101.59	Inf	-Inf	30.90	3	Vertical	79	1.01	-
PK	2.4964G	55.99	74.00	-18.01	31.16	3	Vertical	79	1.01	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

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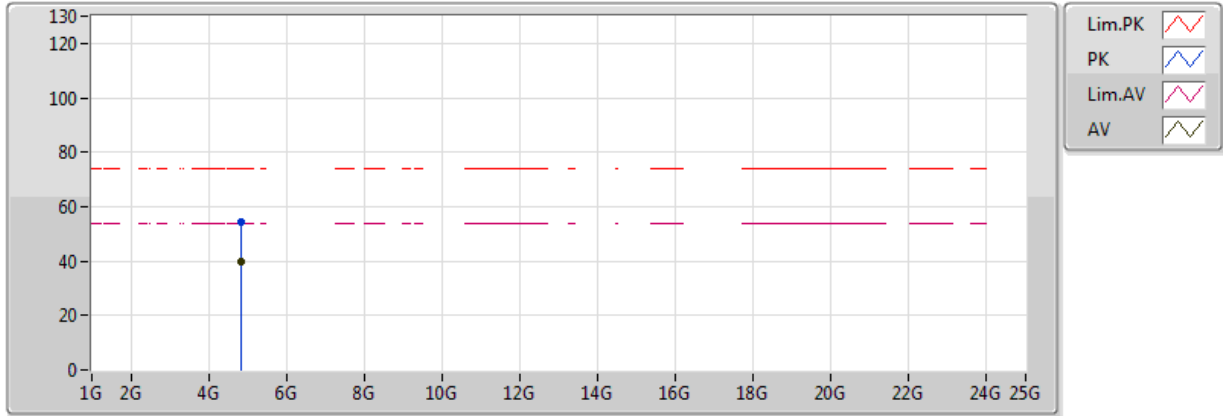


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	46.73	54.00	-7.27	30.77	3	Horizontal	196	1.50	-
AV	2.416G	82.54	Inf	-Inf	30.87	3	Horizontal	196	1.50	-
AV	2.484G	42.29	54.00	-11.71	31.12	3	Horizontal	196	1.50	-
PK	2.3864G	59.29	74.00	-14.71	30.76	3	Horizontal	196	1.50	-
PK	2.4152G	93.41	Inf	-Inf	30.86	3	Horizontal	196	1.50	-
PK	2.4872G	55.89	74.00	-18.11	31.12	3	Horizontal	196	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

28/07/2018

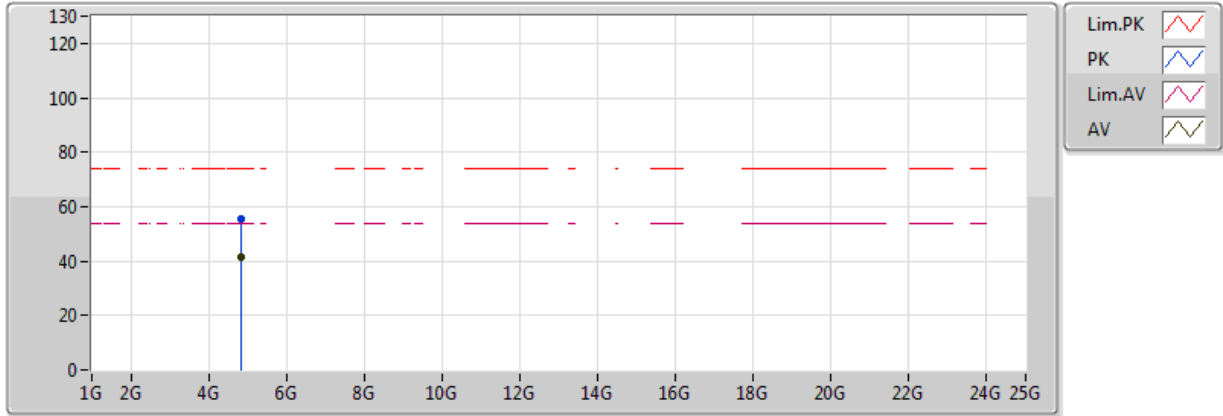


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8439G	39.76	54.00	-14.24	2.18	3	Vertical	344	2.44	-
PK	4.843G	54.62	74.00	-19.38	2.18	3	Vertical	344	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

28/07/2018

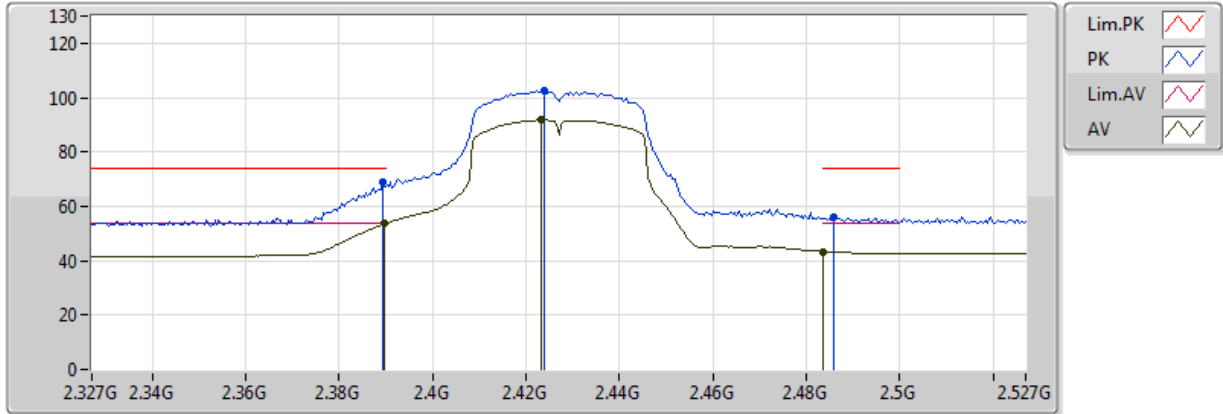


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8442G	41.33	54.00	-12.67	2.18	3	Horizontal	32	2.32	-
PK	4.8447G	55.48	74.00	-18.52	2.18	3	Horizontal	32	2.32	-

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

28/07/2018

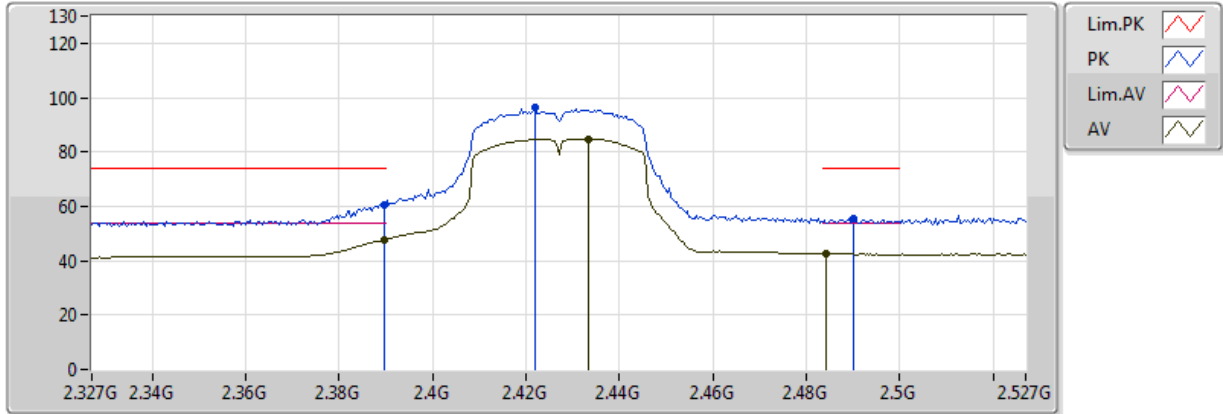


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	53.53	54.00	-0.47	30.77	3	Vertical	79	1.00	-
AV	2.4234G	91.71	Inf	-Inf	30.89	3	Vertical	79	1.00	-
AV	2.483502G	43.42	54.00	-10.58	31.11	3	Vertical	79	1.00	-
PK	2.3894G	68.99	74.00	-5.01	30.77	3	Vertical	79	1.00	-
PK	2.4238G	102.66	Inf	-Inf	30.90	3	Vertical	79	1.00	-
PK	2.4858G	55.98	74.00	-18.02	31.12	3	Vertical	79	1.00	-

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

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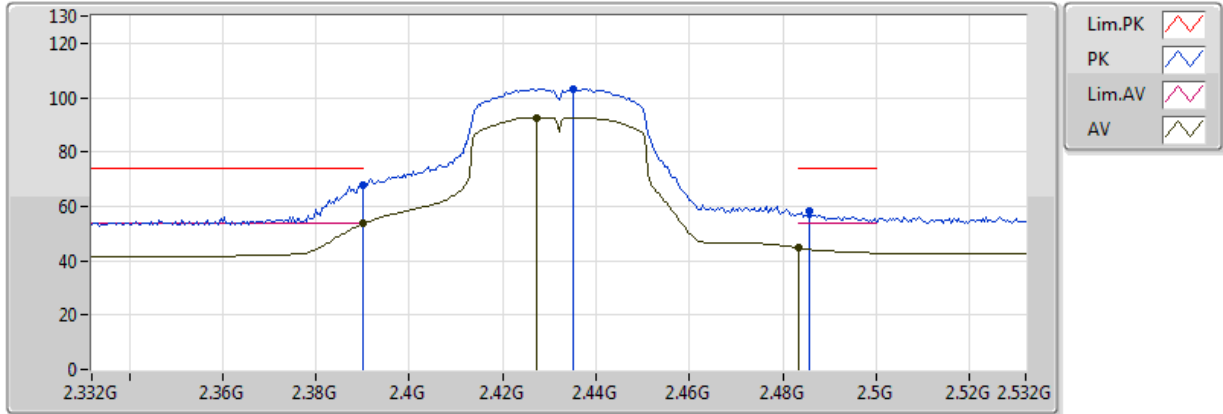


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.71	54.00	-6.29	30.77	3	Horizontal	122	1.84	-
AV	2.4334G	84.84	Inf	-Inf	30.93	3	Horizontal	122	1.84	-
AV	2.4842G	42.39	54.00	-11.61	31.12	3	Horizontal	122	1.84	-
PK	2.3898G	60.46	74.00	-13.54	30.77	3	Horizontal	122	1.84	-
PK	2.4218G	96.10	Inf	-Inf	30.89	3	Horizontal	122	1.84	-
PK	2.4902G	55.39	74.00	-18.61	31.13	3	Horizontal	122	1.84	-

802.11n HT40_Nss1,(MCS0)_2TX

2432MHz_TX

28/07/2018

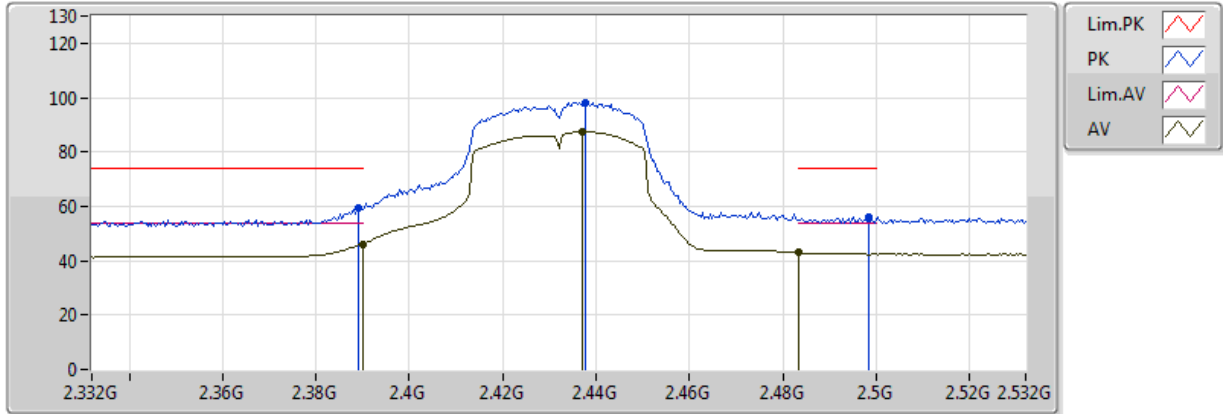


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.52	54.00	-0.48	30.77	3	Vertical	47	1.00	-
AV	2.4272G	92.73	Inf	-Inf	30.91	3	Vertical	47	1.00	-
AV	2.483502G	44.59	54.00	-9.41	31.11	3	Vertical	47	1.00	-
PK	2.389998G	67.73	74.00	-6.27	30.77	3	Vertical	47	1.00	-
PK	2.4352G	103.36	Inf	-Inf	30.94	3	Vertical	47	1.00	-
PK	2.4856G	58.01	74.00	-15.99	31.12	3	Vertical	47	1.00	-

802.11n HT40_Nss1,(MCS0)_2TX

2432MHz_TX

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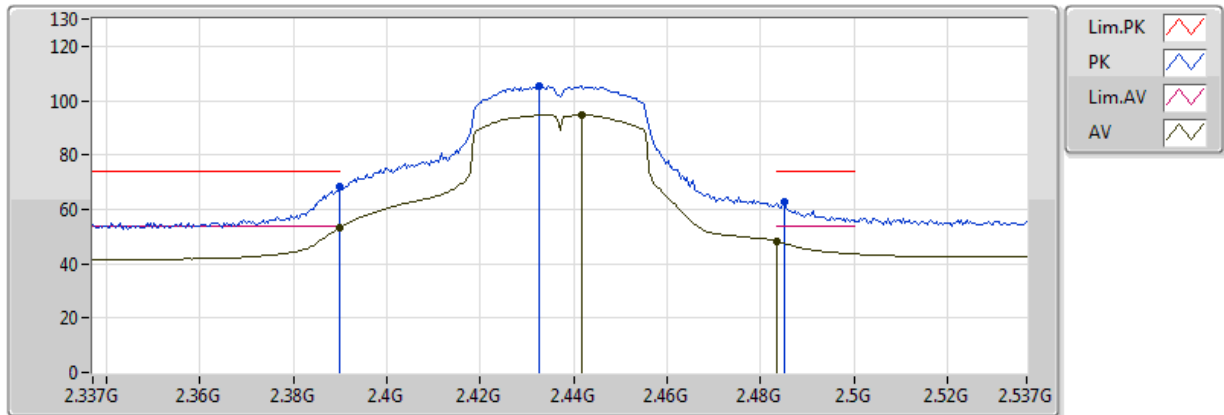


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	46.20	54.00	-7.80	30.77	3	Horizontal	27	2.29	-
AV	2.4372G	87.35	Inf	-Inf	30.94	3	Horizontal	27	2.29	-
AV	2.483502G	42.91	54.00	-11.09	31.11	3	Horizontal	27	2.29	-
PK	2.3892G	59.67	74.00	-14.33	30.77	3	Horizontal	27	2.29	-
PK	2.4376G	98.27	Inf	-Inf	30.95	3	Horizontal	27	2.29	-
PK	2.4984G	55.96	74.00	-18.04	31.17	3	Horizontal	27	2.29	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

28/07/2018

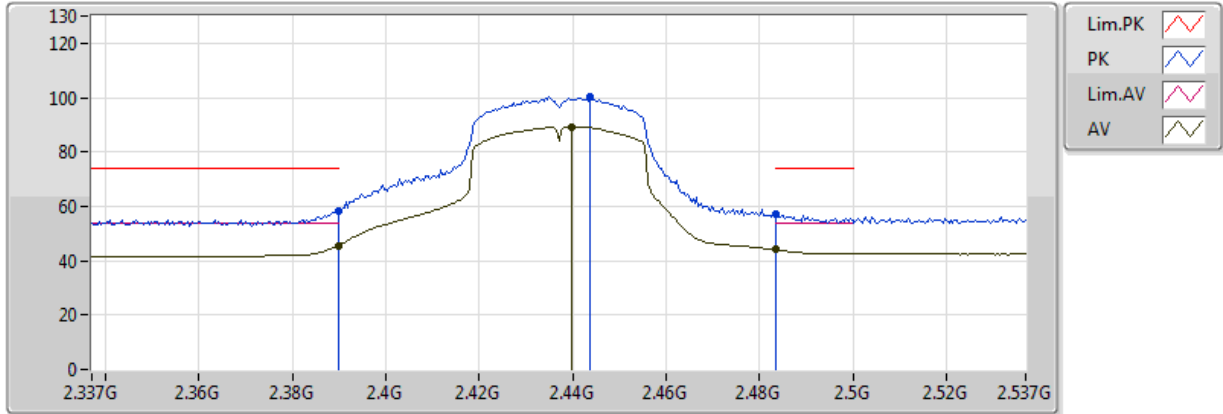


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	53.07	54.00	-0.93	30.77	3	Vertical	45	1.00	-
AV	2.4418G	94.55	Inf	-Inf	30.96	3	Vertical	45	1.00	-
AV	2.483502G	48.22	54.00	-5.78	31.11	3	Vertical	45	1.00	-
PK	2.3898G	68.29	74.00	-5.71	30.77	3	Vertical	45	1.00	-
PK	2.4326G	105.32	Inf	-Inf	30.93	3	Vertical	45	1.00	-
PK	2.485G	62.51	74.00	-11.49	31.12	3	Vertical	45	1.00	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

28/07/2018

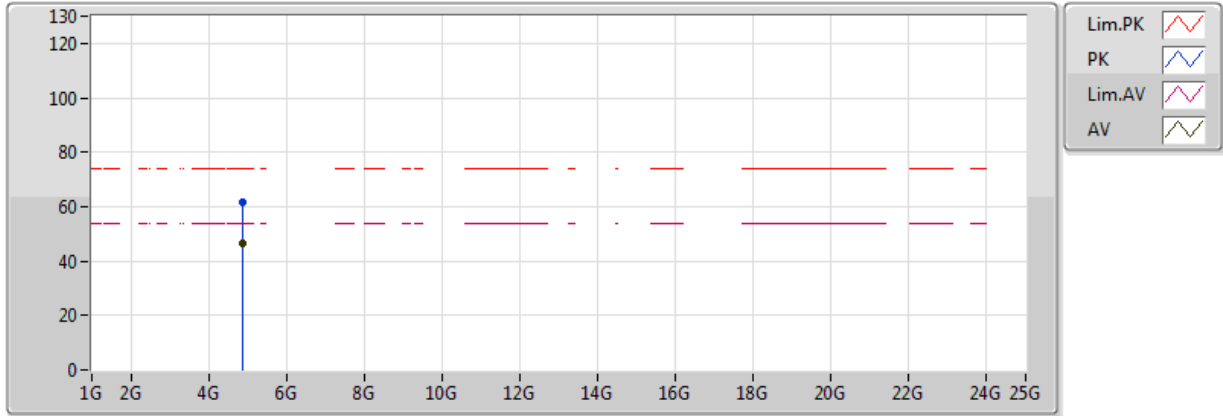


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	45.54	54.00	-8.46	30.77	3	Horizontal	43	2.29	-
AV	2.4398G	89.24	Inf	-Inf	30.95	3	Horizontal	43	2.29	-
AV	2.483502G	44.01	54.00	-9.99	31.11	3	Horizontal	43	2.29	-
PK	2.3898G	58.23	74.00	-15.77	30.77	3	Horizontal	43	2.29	-
PK	2.4438G	100.09	Inf	-Inf	30.97	3	Horizontal	43	2.29	-
PK	2.483502G	57.32	74.00	-16.68	31.11	3	Horizontal	43	2.29	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

28/07/2018

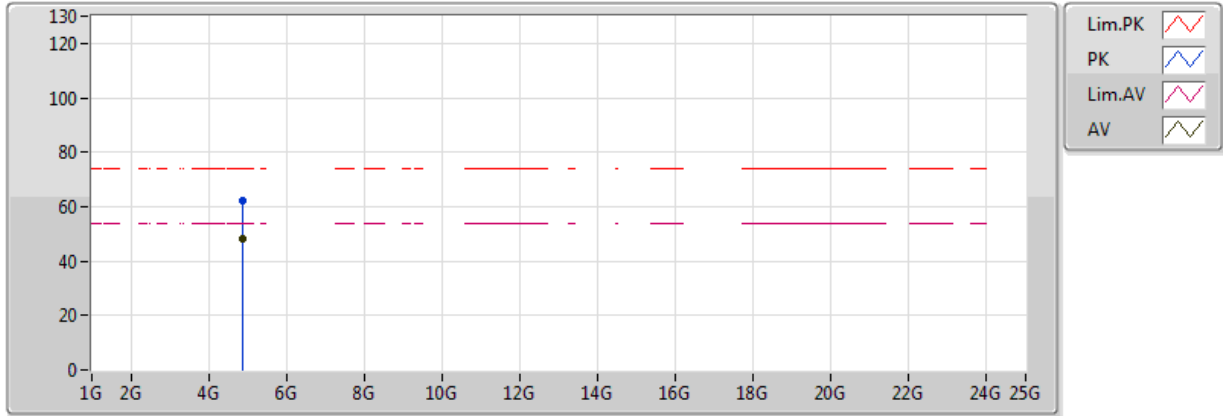


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.874G	46.32	54.00	-7.68	2.26	3	Vertical	344	2.44	-
PK	4.8758G	61.49	74.00	-12.51	2.26	3	Vertical	344	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

28/07/2018

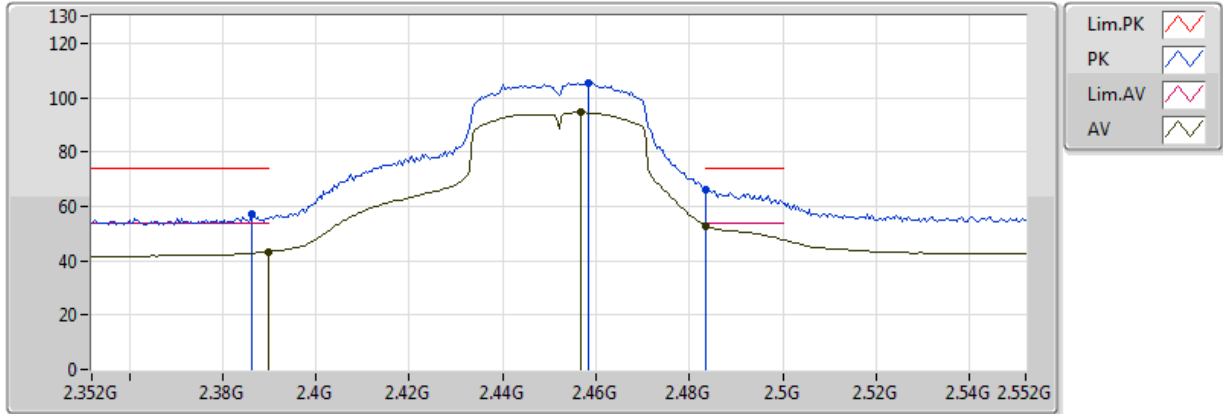


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8741G	47.97	54.00	-6.03	2.26	3	Horizontal	31	2.41	-
PK	4.877G	61.98	74.00	-12.02	2.26	3	Horizontal	31	2.41	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

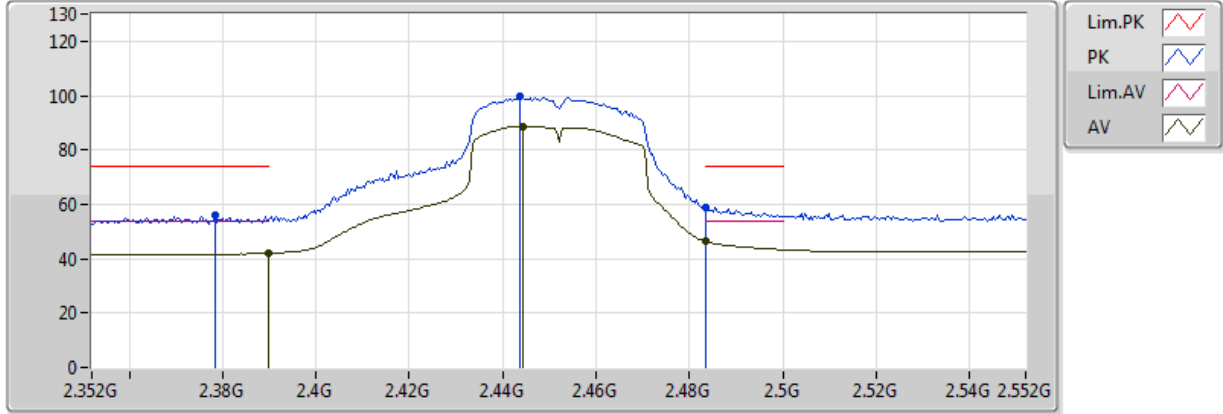
28/07/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	43.30	54.00	-10.70	30.77	3	Vertical	47	1.12	-
AV	2.4568G	94.51	Inf	-Inf	31.01	3	Vertical	47	1.12	-
AV	2.483502G	52.82	54.00	-1.18	31.11	3	Vertical	47	1.12	-
PK	2.3864G	56.92	74.00	-17.08	30.76	3	Vertical	47	1.12	-
PK	2.4584G	105.61	Inf	-Inf	31.02	3	Vertical	47	1.12	-
PK	2.483502G	66.29	74.00	-7.71	31.11	3	Vertical	47	1.12	-

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

28/07/2018

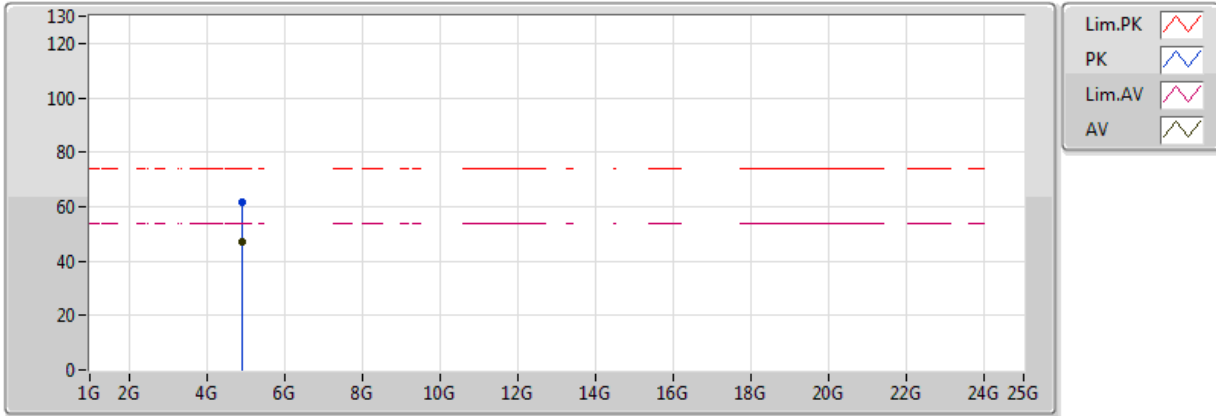


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	41.96	54.00	-12.04	30.77	3	Horizontal	43	2.31	-
AV	2.4444G	88.78	Inf	-Inf	30.97	3	Horizontal	43	2.31	-
AV	2.483502G	46.34	54.00	-7.66	31.11	3	Horizontal	43	2.31	-
PK	2.3784G	56.15	74.00	-17.85	30.73	3	Horizontal	43	2.31	-
PK	2.4436G	99.65	Inf	-Inf	30.97	3	Horizontal	43	2.31	-
PK	2.483502G	58.75	74.00	-15.25	31.11	3	Horizontal	43	2.31	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

28/07/2018

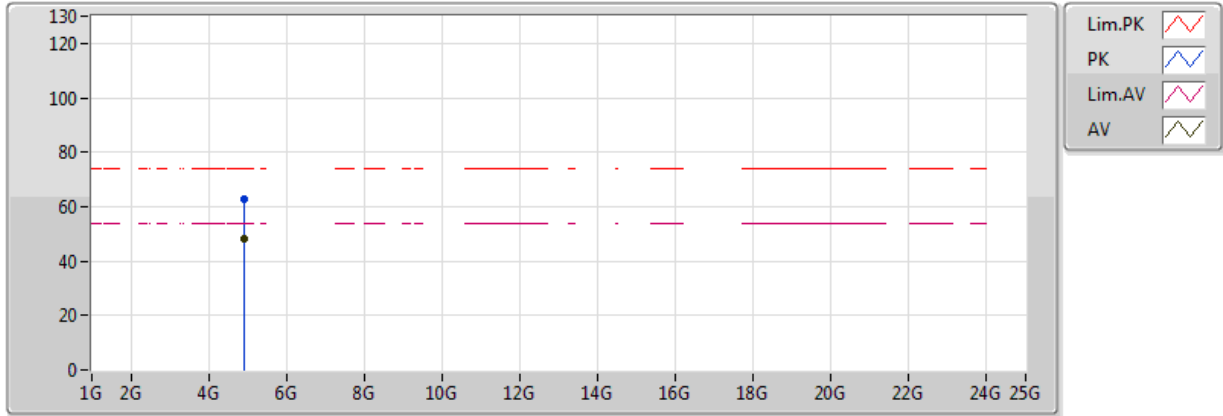


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9085G	47.01	54.00	-6.99	2.34	3	Vertical	338	2.25	-
PK	4.9048G	61.65	74.00	-12.35	2.33	3	Vertical	338	2.25	-

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	4.9089G	48.02	54.00	-5.98	2.34	3	Horizontal	34	2.47	-
PK	4.9028G	62.52	74.00	-11.48	2.33	3	Horizontal	34	2.47	-