

# FCC Test Report

**FCC ID** : SWX-LAPGPS  
**Equipment** : LiteAP GPS  
**Brand Name** : UBIQUITI  
**Model Name** : LAP-GPS  
**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 Apr. 25, 2018, and testing was started from May 03, 2018 and completed on May 12, 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: Phoenix Chen

**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: Jeremy Lin

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), ac (VHT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), ac (VHT40)	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	-	-	internal antenna	Murata
2	2	-	-	internal antenna	Murata

Ant.	Gain (dBi)	
	2.4G	5G
1	2	17
2	-	17

Note 1: The EUT has two antennas.

**For 2.4GHz function:**

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

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

**For 5GHz function:**

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

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



1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.985	0.066	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.912	0.4	1.366m	1k
802.11n HT20	0.923	0.348	1.275m	1k
802.11n HT40	0.82	0.862	617.5u	3k



## 1.2 Testing Applied Standards

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

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013
- ◆ KDB 558074 D01 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
AC Conduction	CO04-HY	Kevin	23.5°C / 55%	12/May/2018
RF Conducted	TH06-HY	Tim	22.5°C / 65%	04/May/2018
Radiated	03CH09-HY	Jerry	23.5°C / 60%	03/May/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
---------------	-----

### 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	PoE 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	PoE Mode
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	Y Plane 
	V
Worst Planes of EUT	





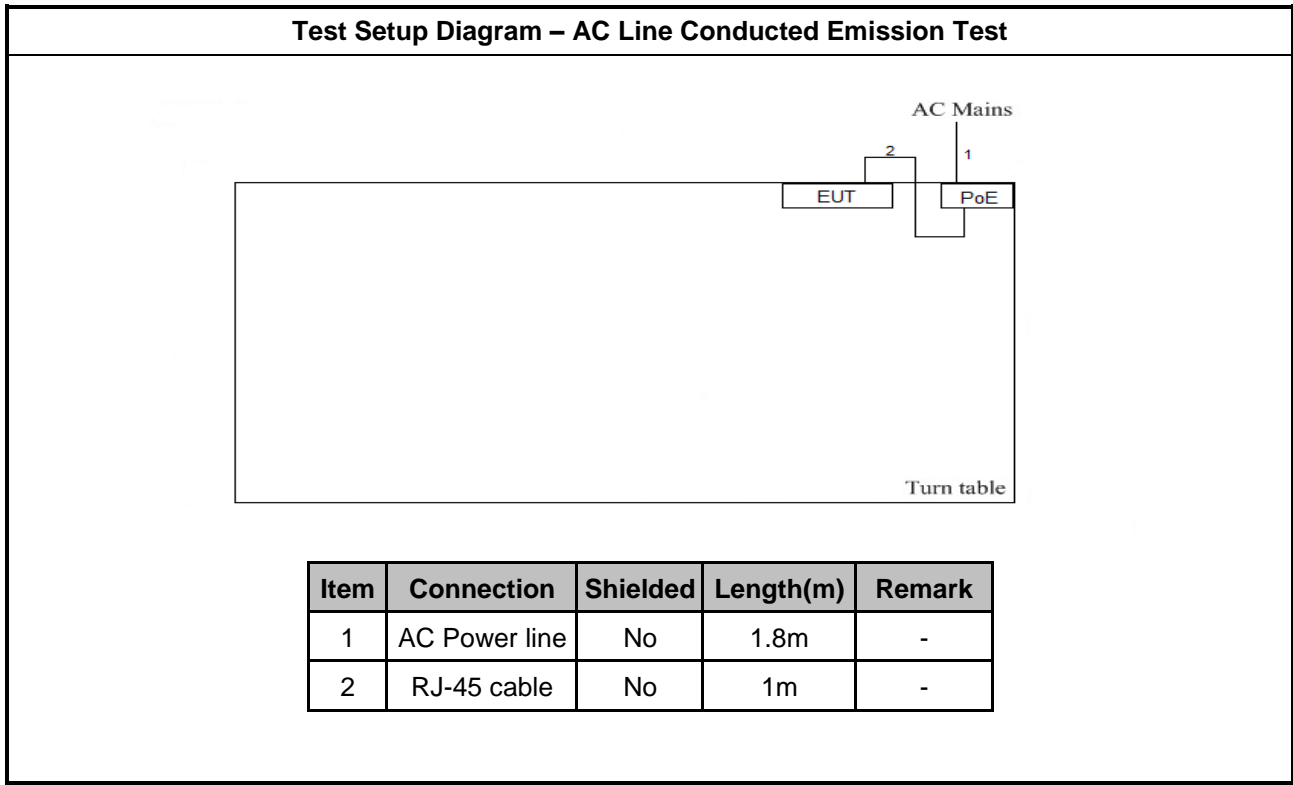
## 2.4 Accessories

Accessories				
PoE Adapter	Brand Name	UBIQUITI	Model Name	GP-J240-030G
	Power Rating	I/P: 100 - 240Vac, 0.3 A, O/P: 24 Vdc, 0.3 A		

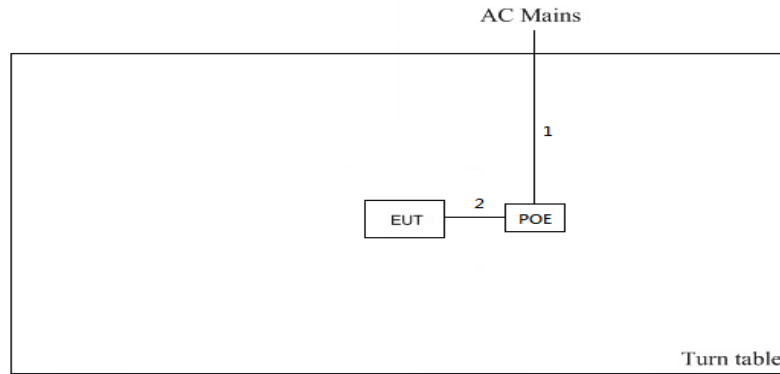
Reminder: Regarding to more detail and other information, please refer to user manual.

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 Source	G.W	APS-9102	-

## 2.5 Test Setup Diagram



**Test Setup Diagram - Radiated Test**



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8m	-
2	RJ-45 cable	No	0.3m	-

### 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.

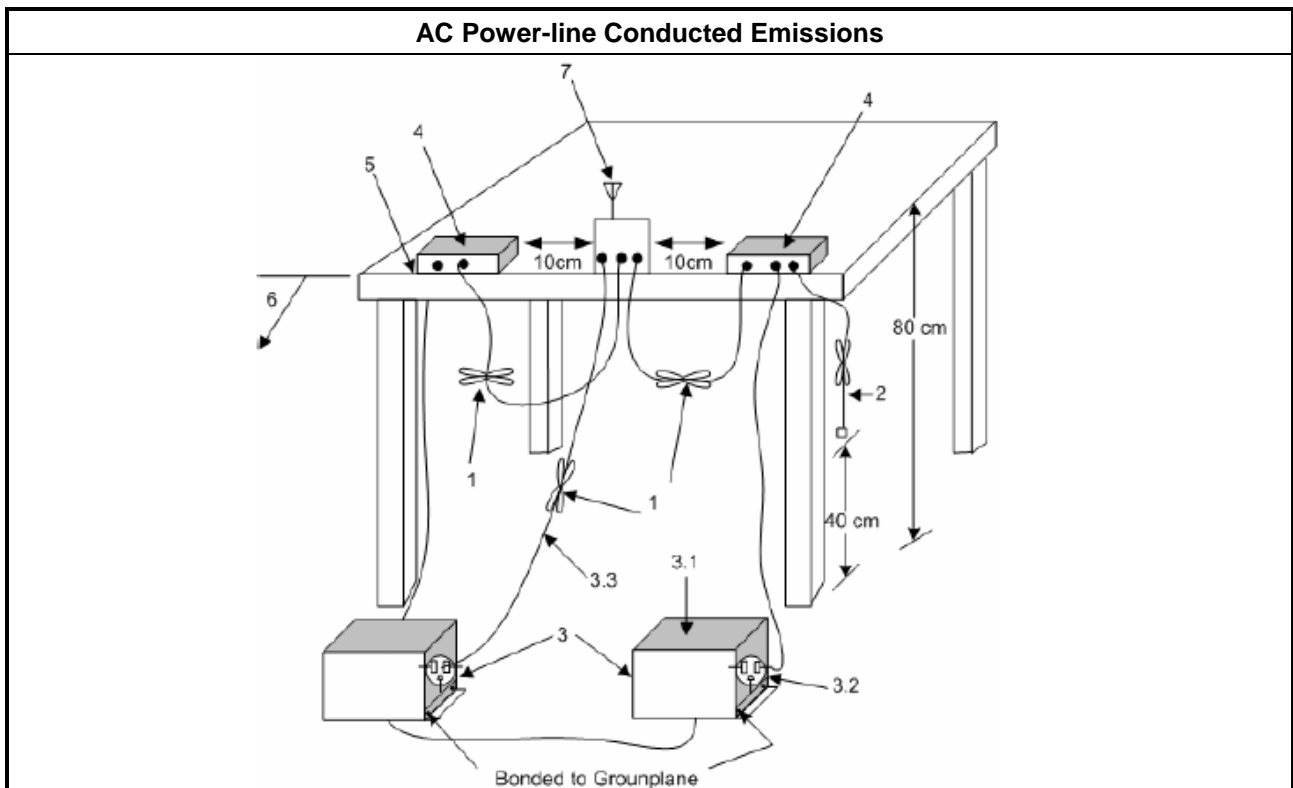
##### 3.1.2 Measuring Instruments

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

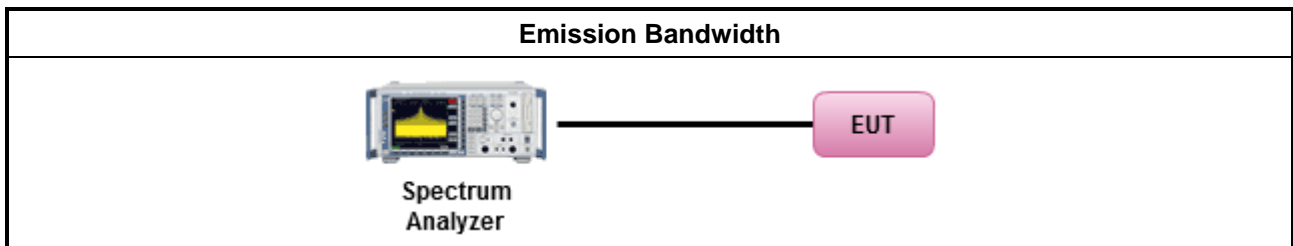
#### 3.2.2 Measuring Instruments

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"> <li>▪ For the emission bandwidth shall be measured using one of the options below:</li> </ul>	
<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"> <li>▪ If <math>G_{TX} \leq 6</math> dBi, then <math>P_{Out} \leq 30</math> dBm (1 W)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-point systems (P2P): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Smart antenna system (SAS):</li> </ul>
	<ul style="list-style-type: none"> <li>- Single beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Overlap beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Aggregate power on all beams: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3 + 8</math> dB dBm</li> </ul>
e.i.r.p. Power Limit:	
	<ul style="list-style-type: none"> <li>▪ 2400-2483.5 MHz Band</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): <math>P_{eirp} \leq 36</math> dBm (4 W)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-point systems (P2P): <math>P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Smart antenna system (SAS)</li> </ul>
	<ul style="list-style-type: none"> <li>- Single beam: <math>P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Overlap beam: <math>P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Aggregate power on all beams: <math>P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])</math> dBm</li> </ul>
<p><math>P_{Out}</math> = maximum peak conducted output power or maximum conducted output power in dBm,  <math>G_{TX}</math> = the maximum transmitting antenna directional gain in dBi.</p>	

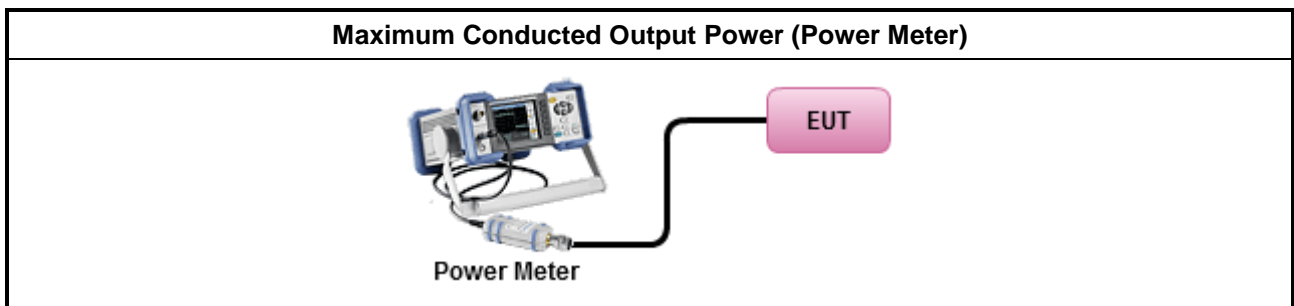
#### 3.3.2 Measuring Instruments

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"> <li>▪ Maximum Peak Conducted Output Power</li> </ul>	
<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"> <li>▪ Maximum Average Conducted Output Power</li> </ul>	
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"> <li>▪ For conducted measurement.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ 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.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ If multiple transmit chains, EIRP calculation could be following as methods:  <math>P_{total} = P_1 + P_2 + \dots + P_n</math>                      (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>EIRP_{total} = P_{total} + DG</math> </li> </ul>	

### 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"> <li>Power Spectral Density (PSD) <math>\leq</math> 8 dBm/3kHz</li> </ul>

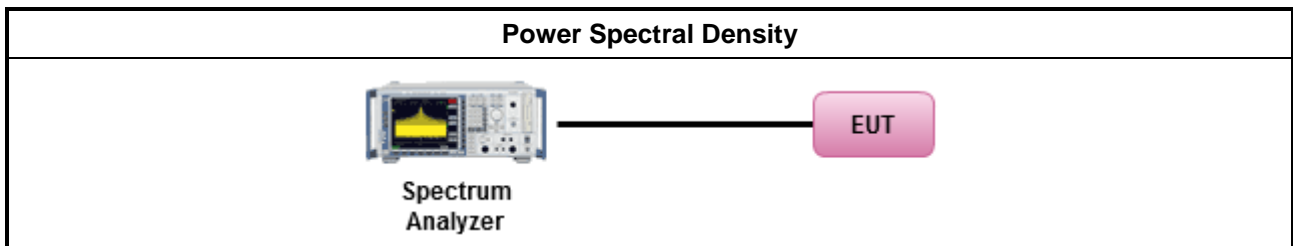
#### 3.4.2 Measuring Instruments

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"> <li>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).</li> </ul>
<input checked="" type="checkbox"/> Refer as KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).
<ul style="list-style-type: none"> <li>For conducted measurement.             <ul style="list-style-type: none"> <li>If The EUT supports multiple transmit chains using options given below:                 <ul style="list-style-type: none"> <li>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.</li> </ul> </li> </ul> </li> </ul>

#### 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.

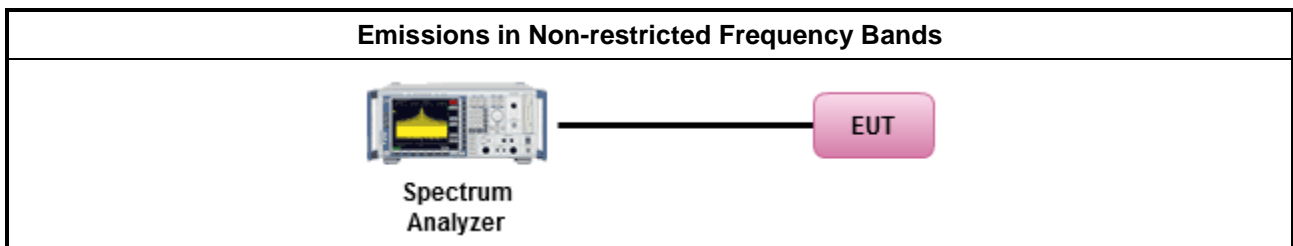
#### 3.5.2 Measuring Instruments

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"> <li>Refer as KDB 558074, clause 11 for unwanted emissions into non-restricted bands.</li> </ul>

#### 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

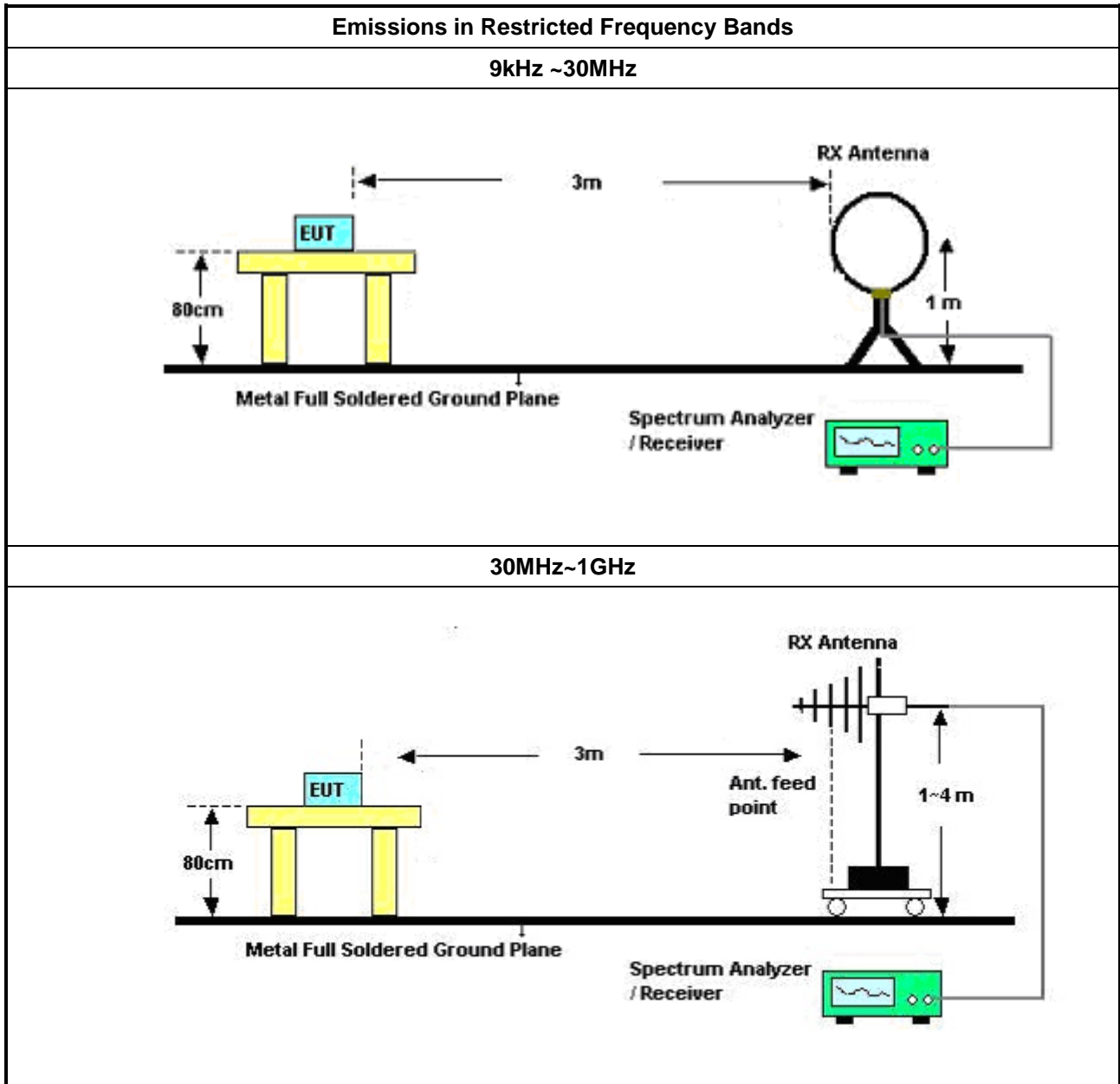
Refer a test equipment and calibration data table in this test report.

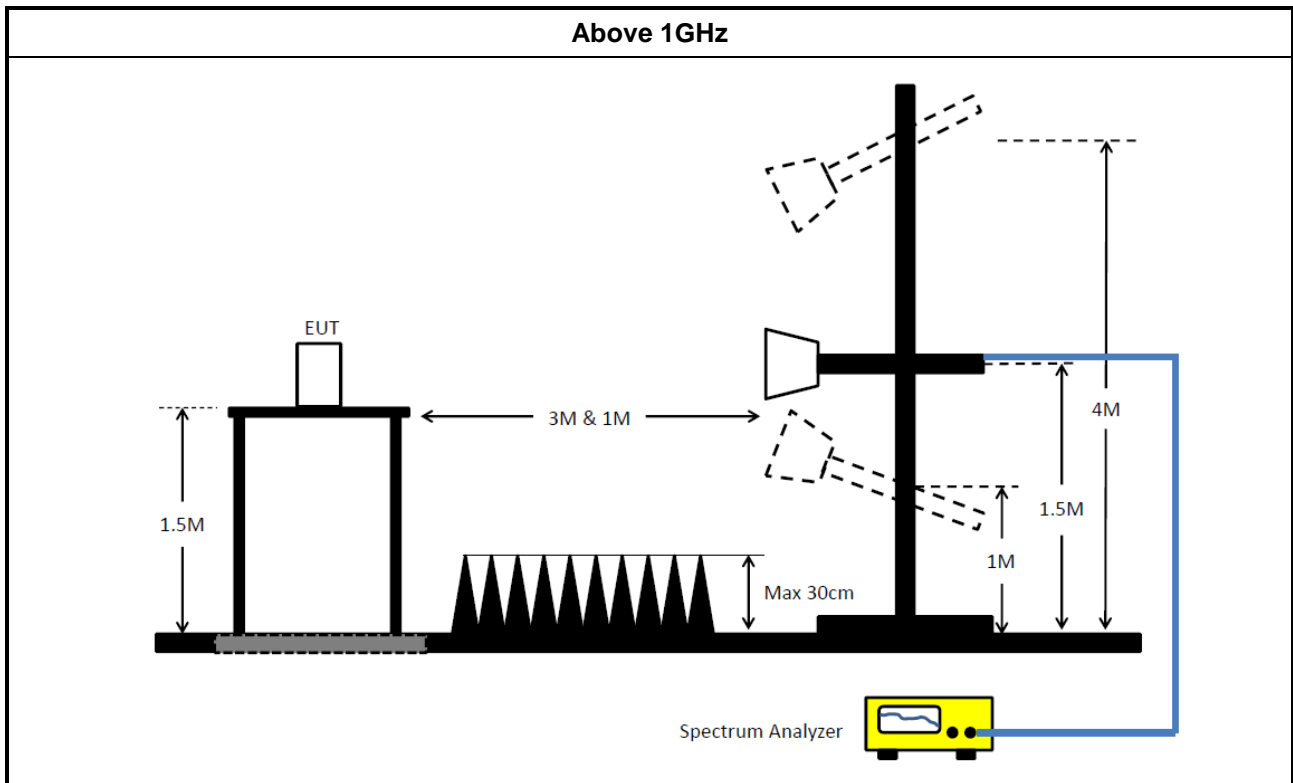


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>	
<ul style="list-style-type: none"> <li>▪ 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.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 558074, clause 12 for unwanted emissions into restricted bands.</li> </ul>
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 12.2.5.3 (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW $\geq$ 1/T.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> <li>▪ For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ 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.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 558074, clause 13.2 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 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).</li> </ul>
<ul style="list-style-type: none"> <li>▪ For conducted and cabinet radiation measurement, refer as KDB 558074, clause 12.2.2.</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ 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</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 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.</li> </ul>

### 3.6.4 Test Setup





### 3.6.5 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

### 3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESCS30	838251/003	9KHz ~ 2.75GHz	13/Jun/2017	12/Jun/2018
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
N.S.A. Measurement	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	29/Apr/2018	28/Apr/2019
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	28/Jun/2017	27/Jun/2018
Amplifier	Agilent	8449B	3008A02326	1GHz ~ 26.5GHz	17/Jul/2017	16/Jul/2018
Amplifier	EMC	EMC9135	980209	9KHz~1GHz	03/Jan/2018	02/Jan/2019
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	20/Jul/2017	19/Jul/2018
Bilog Antenna & 5dB Attenuator	TESEQ	CBL 6111D	35418	30MHz~1GHz	09/Sep/2017	08/Sep/2018
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA9120D 1534	1GHz~18GHz	30/Apr/2018	29/Apr/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	18GHz~40GHz	09/Feb/2018	08/Feb/2019
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2017	23/Aug/2018
Loop Antenna	TESEQ	HLA 6120	31244	9kHz ~ 30MHz	28/Mar/2018	27/Mar/2019
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	02/Feb/2018	01/Feb/2019
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	02/Feb/2018	01/Feb/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	29/Dec/2017	28/Dec/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018
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	MY10709/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10712/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018



AC Power-line Conducted Emissions Result																																																																																																																																										
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**Summary**

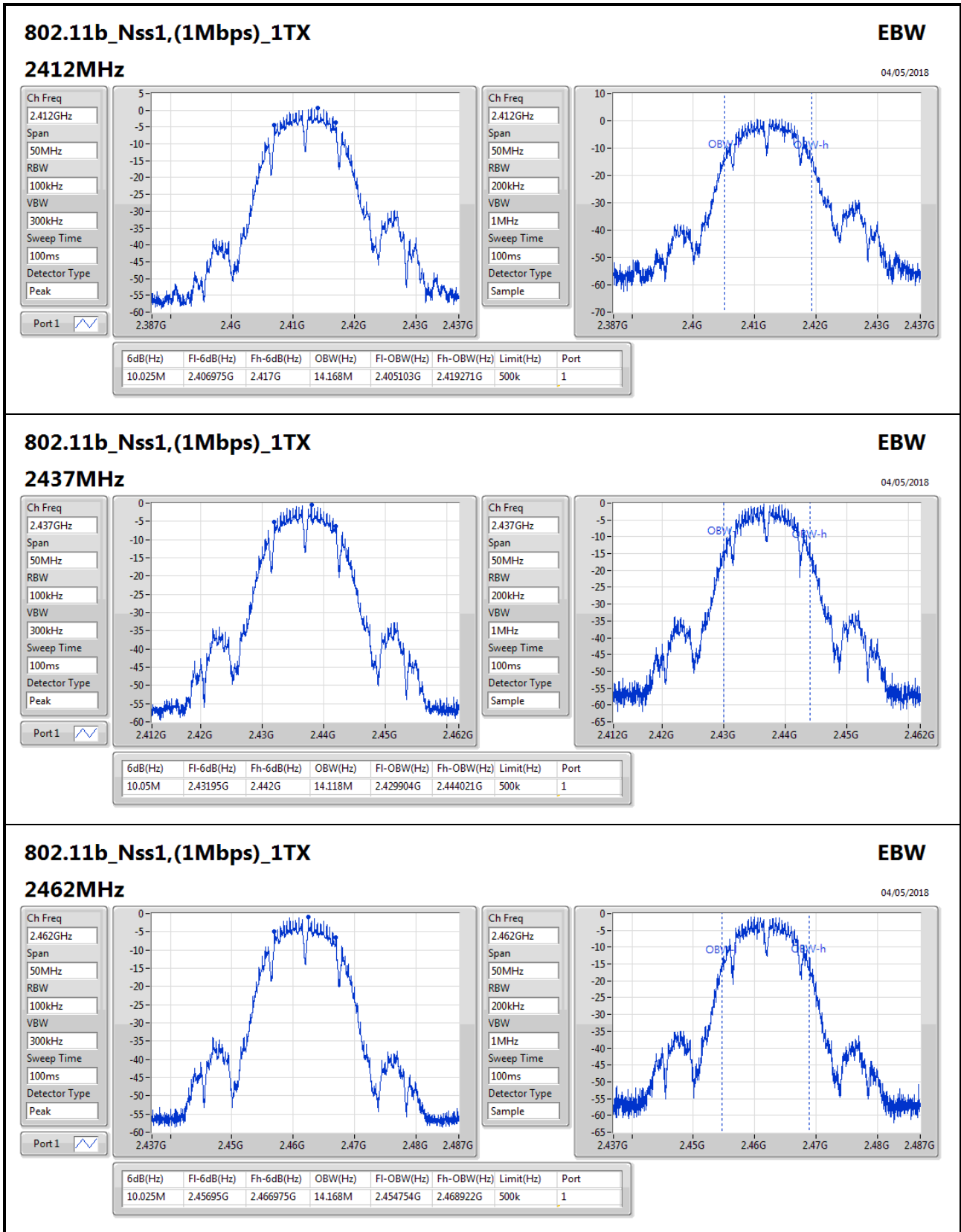
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	10.05M	14.168M	14M2G1D	10.025M	14.118M
802.11g_Nss1,(6Mbps)_1TX	16.275M	28.311M	28M3D1D	15.725M	18.591M
802.11n HT20_Nss1,(MCS0)_1TX	16.55M	30.01M	30M0D1D	16.125M	19.94M
802.11n HT40_Nss1,(MCS0)_1TX	35.7M	36.582M	36M6D1D	35.3M	36.332M

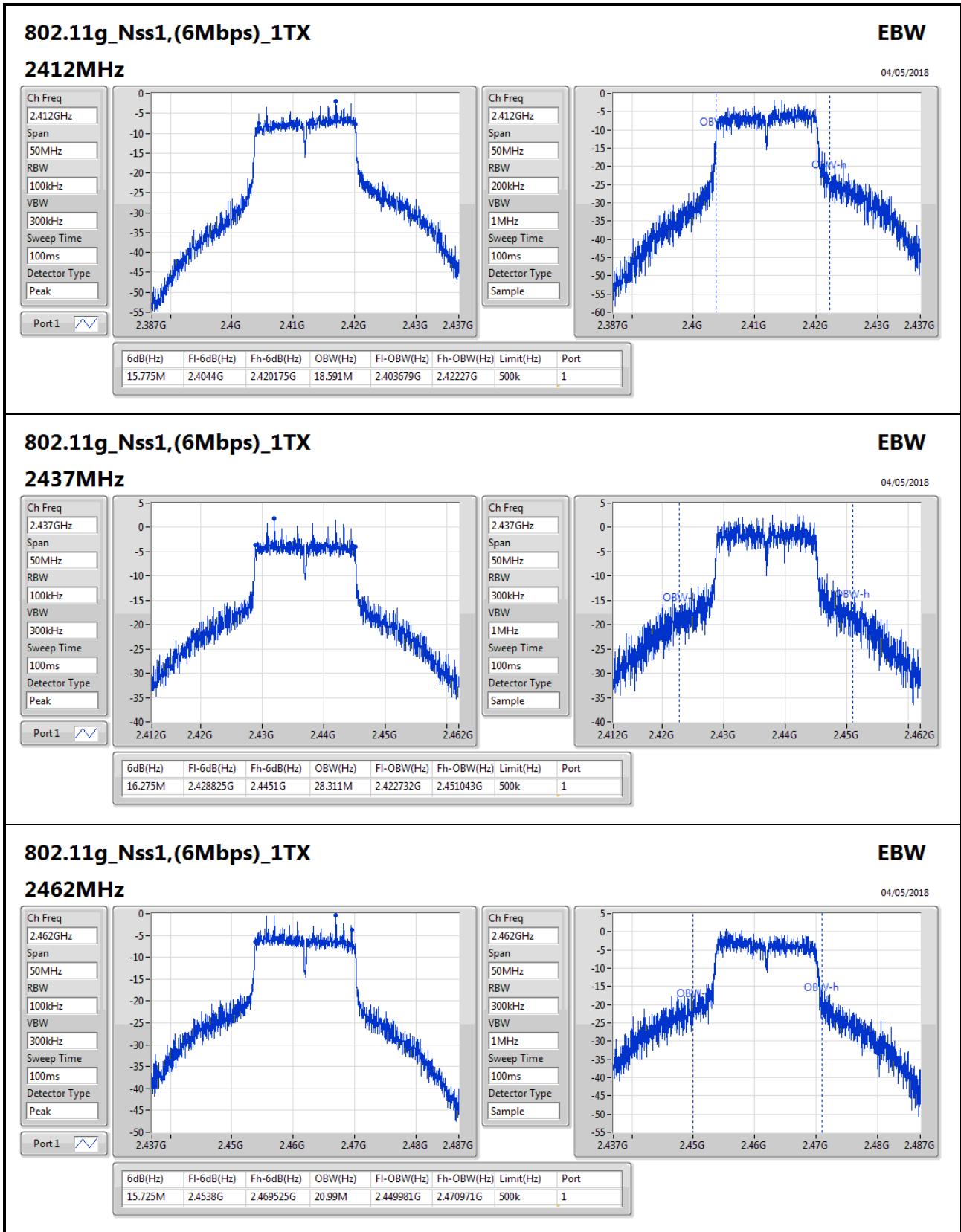
**Max-N dB** = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;  
**Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

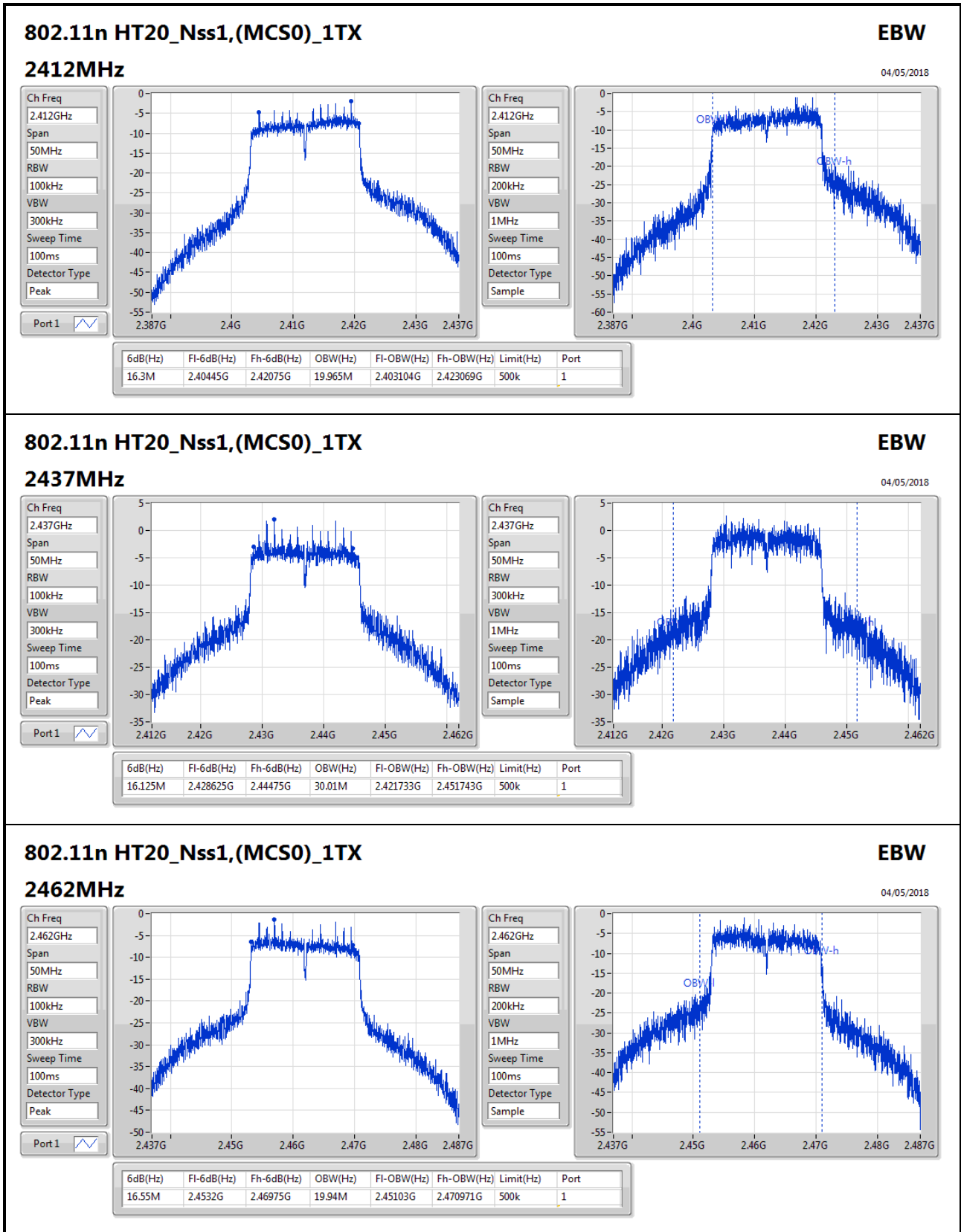
**Result**

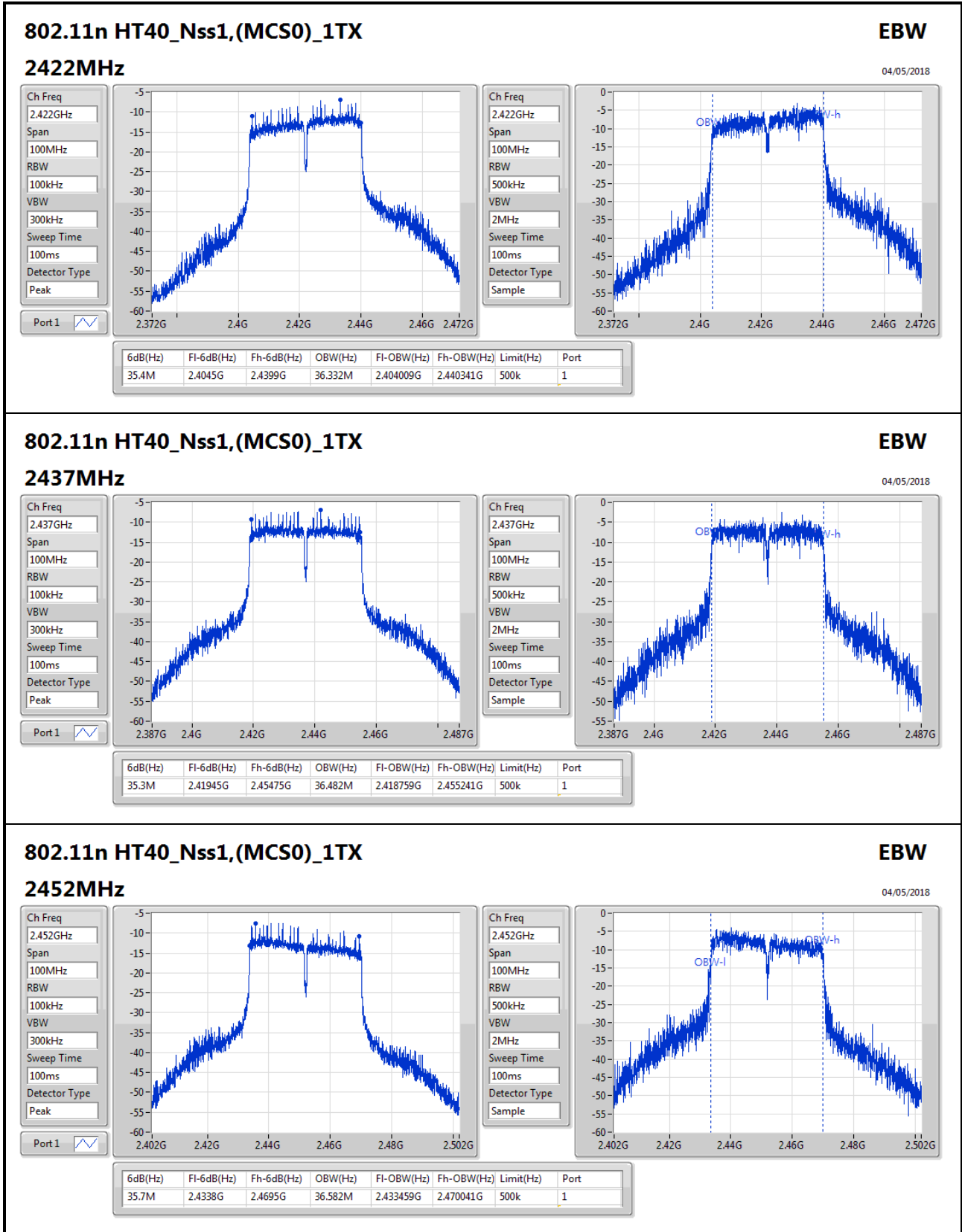
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	10.025M	14.168M
2437MHz_TnomVnom	Pass	500k	10.05M	14.118M
2462MHz_TnomVnom	Pass	500k	10.025M	14.168M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	15.775M	18.591M
2437MHz_TnomVnom	Pass	500k	16.275M	28.311M
2462MHz_TnomVnom	Pass	500k	15.725M	20.99M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	16.3M	19.965M
2437MHz_TnomVnom	Pass	500k	16.125M	30.01M
2462MHz_TnomVnom	Pass	500k	16.55M	19.94M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz_TnomVnom	Pass	500k	35.4M	36.332M
2437MHz_TnomVnom	Pass	500k	35.3M	36.482M
2452MHz_TnomVnom	Pass	500k	35.7M	36.582M

**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	11.59	0.01442
802.11g_Nss1,(6Mbps)_1TX	12.48	0.01770
802.11n HT20_Nss1,(MCS0)_1TX	12.67	0.01849
802.11n HT40_Nss1,(MCS0)_1TX	8.96	0.00787

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.00	11.59	11.59	30.00
2437MHz_TnomVnom	Pass	2.00	9.57	9.57	30.00
2462MHz_TnomVnom	Pass	2.00	8.92	8.92	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.00	9.31	9.31	30.00
2437MHz_TnomVnom	Pass	2.00	12.48	12.48	30.00
2457MHz_TnomVnom	Pass	2.00	11.48	11.48	30.00
2462MHz_TnomVnom	Pass	2.00	10.88	10.88	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.00	8.95	8.95	30.00
2437MHz_TnomVnom	Pass	2.00	12.67	12.67	30.00
2457MHz_TnomVnom	Pass	2.00	11.63	11.63	30.00
2462MHz_TnomVnom	Pass	2.00	9.78	9.78	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.00	7.08	7.08	30.00
2437MHz_TnomVnom	Pass	2.00	7.53	7.53	30.00
2442MHz_TnomVnom	Pass	2.00	8.96	8.96	30.00
2447MHz_TnomVnom	Pass	2.00	8.10	8.10	30.00
2452MHz_TnomVnom	Pass	2.00	6.57	6.57	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	-14.29
802.11g_Nss1,(6Mbps)_1TX	-14.04
802.11n HT20_Nss1,(MCS0)_1TX	-14.67
802.11n HT40_Nss1,(MCS0)_1TX	-21.85

RBW=3kHz.

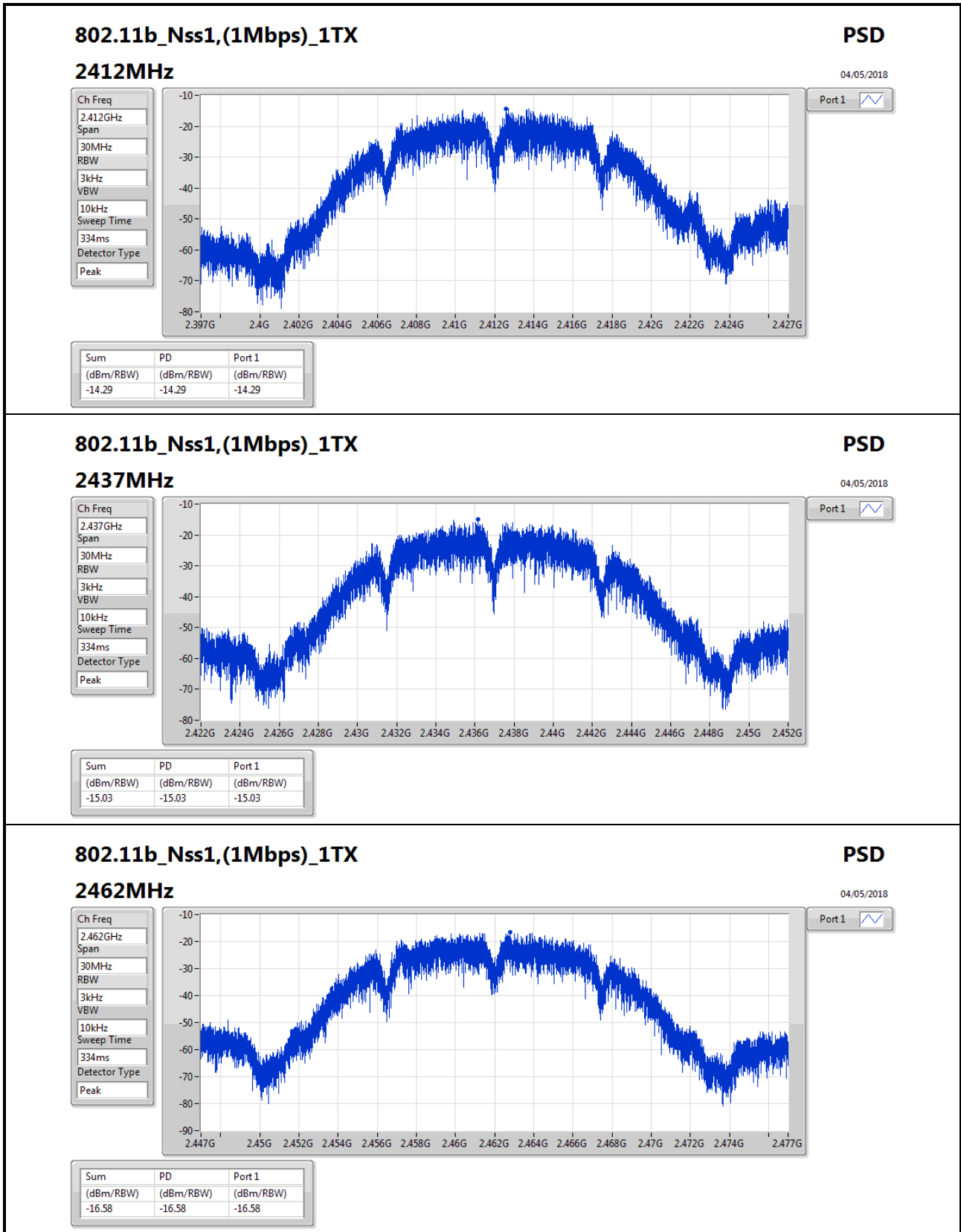
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.00	-14.29	-14.29	8.00
2437MHz_TnomVnom	Pass	2.00	-15.03	-15.03	8.00
2462MHz_TnomVnom	Pass	2.00	-16.58	-16.58	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.00	-16.70	-16.70	8.00
2437MHz_TnomVnom	Pass	2.00	-14.04	-14.04	8.00
2462MHz_TnomVnom	Pass	2.00	-16.50	-16.50	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.00	-16.32	-16.32	8.00
2437MHz_TnomVnom	Pass	2.00	-14.67	-14.67	8.00
2462MHz_TnomVnom	Pass	2.00	-16.09	-16.09	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.00	-21.99	-21.99	8.00
2437MHz_TnomVnom	Pass	2.00	-22.04	-22.04	8.00
2452MHz_TnomVnom	Pass	2.00	-21.85	-21.85	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

04/05/2018

Ch Freq  
2.462GHz

Span  
30MHz

RBW  
3kHz

VBW  
10kHz

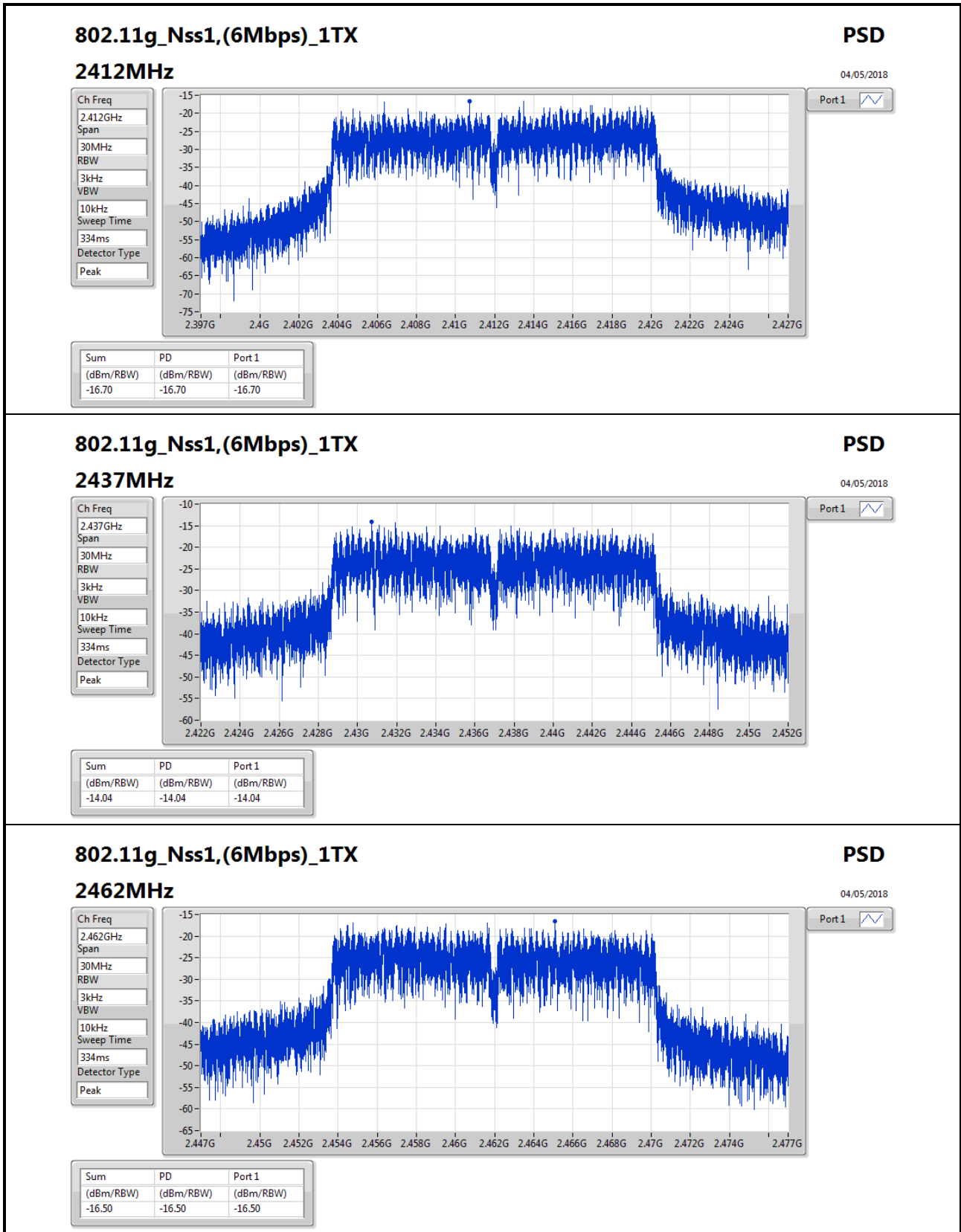
Sweep Time  
334ms

Detector Type  
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-16.58	-16.58	-16.58



### 802.11g\_Nss1,(6Mbps)\_1TX

#### 2462MHz

PSD

04/05/2018

Ch Freq

2.462GHz

Span

30MHz

RBW

3kHz

VBW

10kHz

Sweep Time

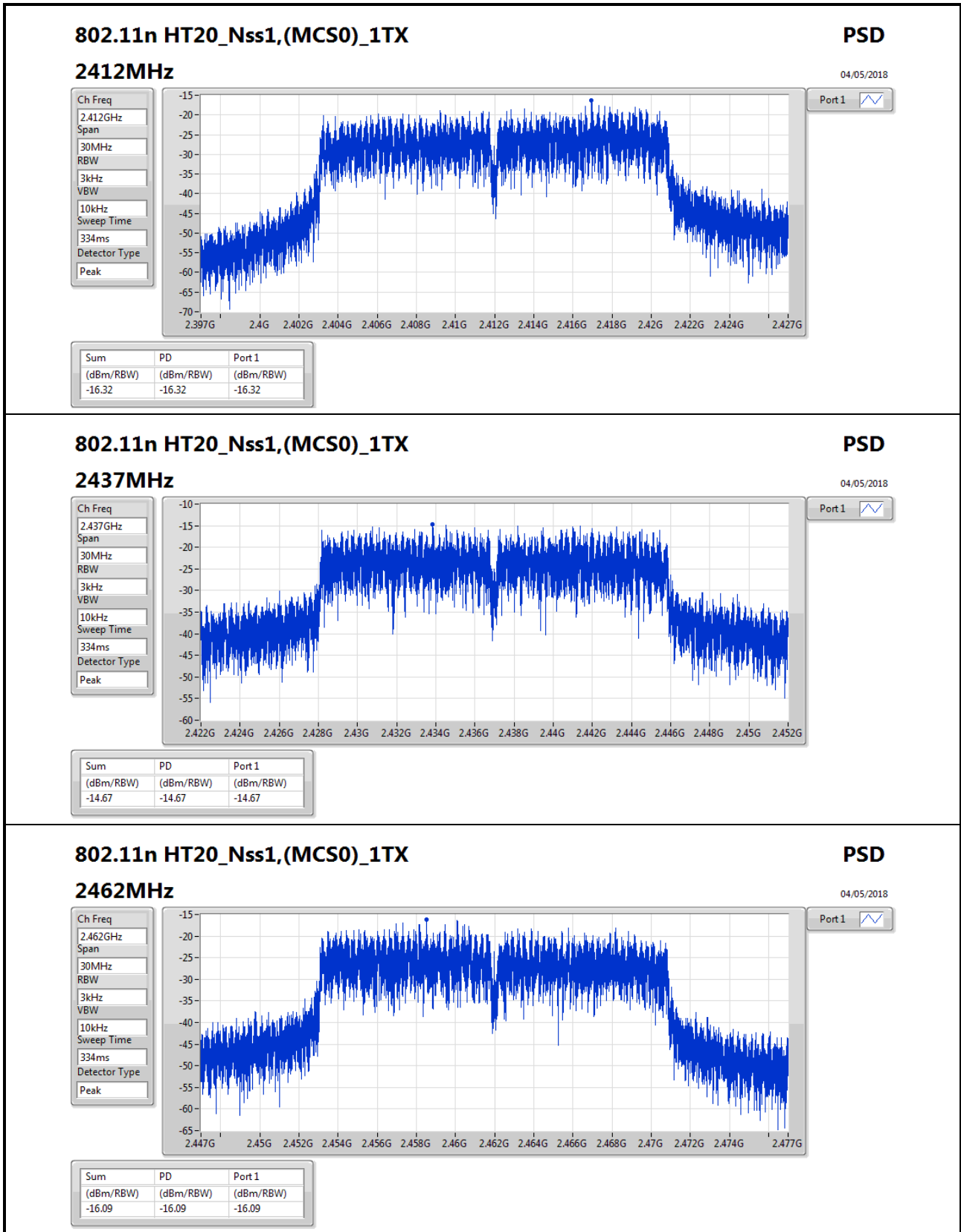
334ms

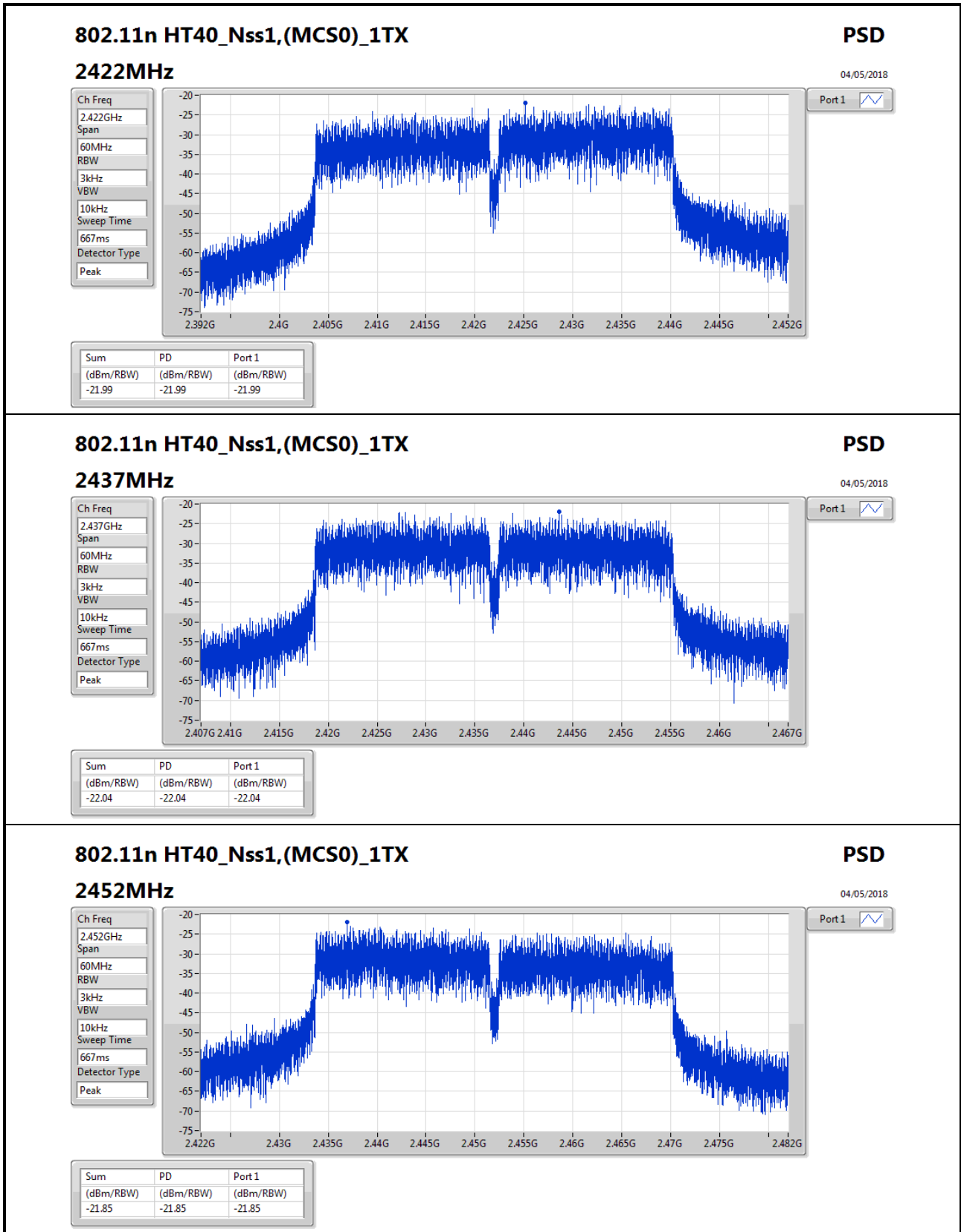
Detector Type

Peak

Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-16.50	-16.50	-16.50





### 802.11n HT40\_Nss1,(MCS0)\_1TX

#### 2452MHz

PSD

04/05/2018

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)
-21.85	-21.85	-21.85

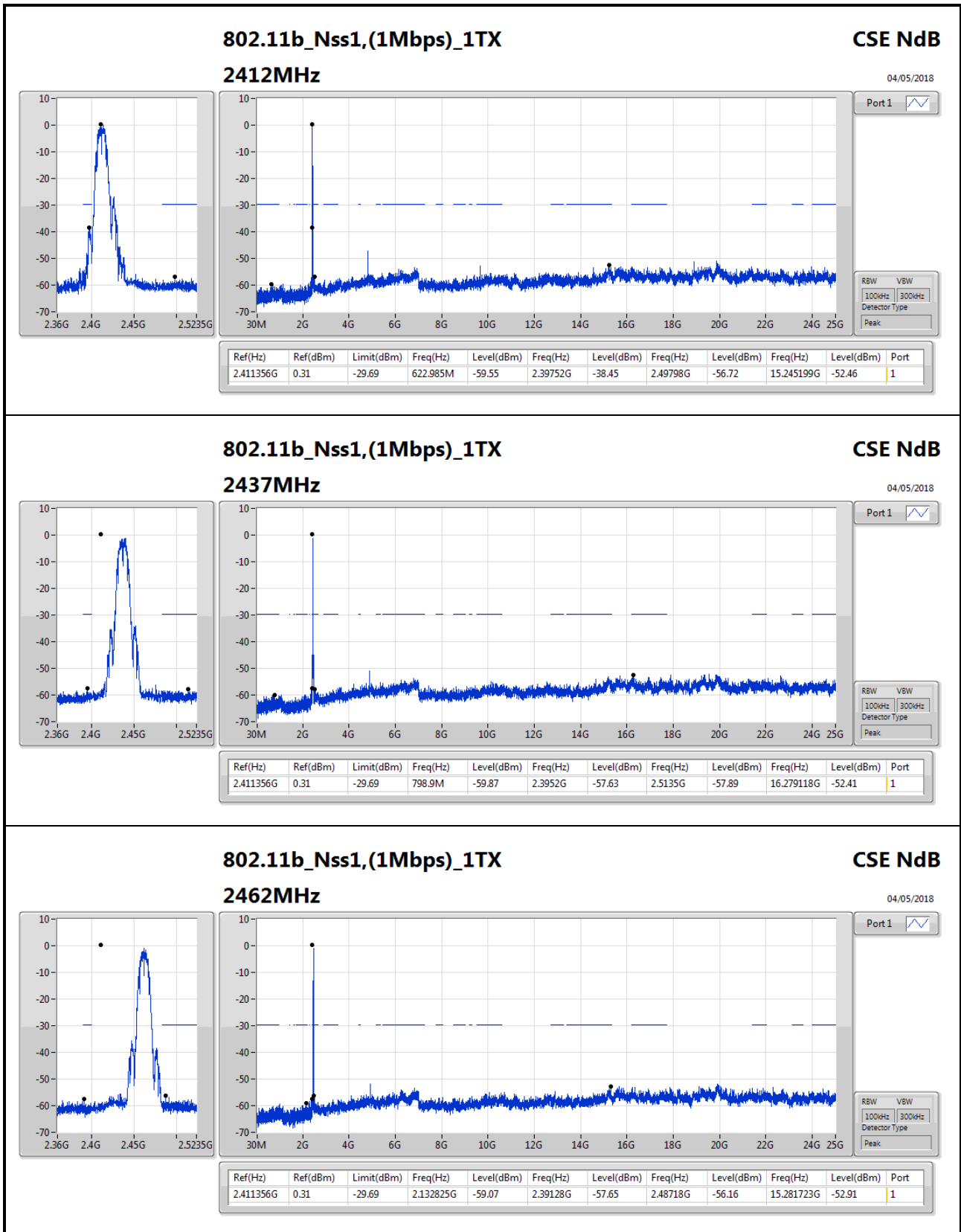


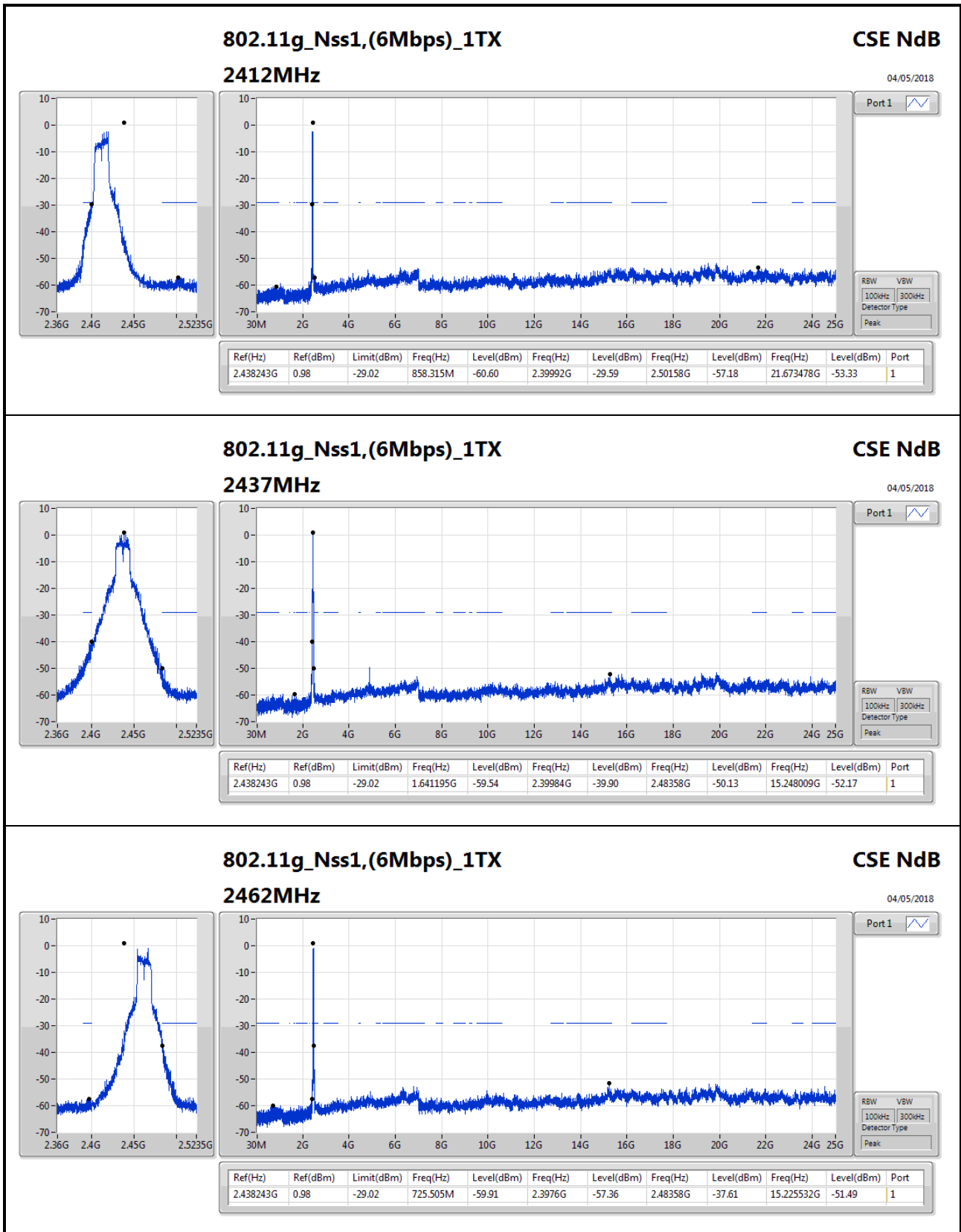
Summary

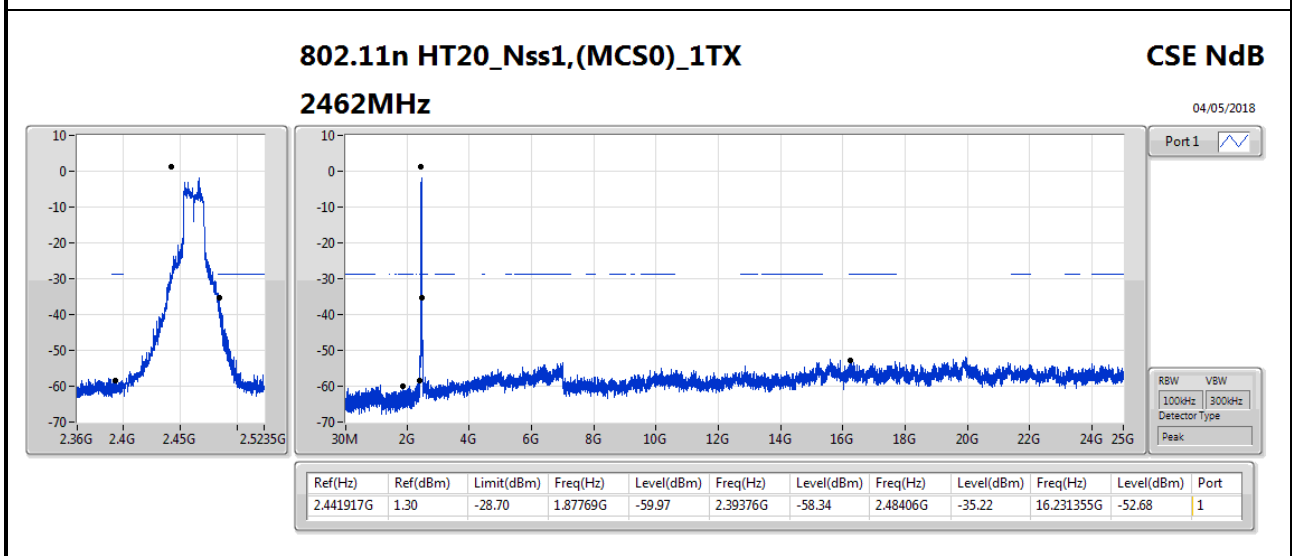
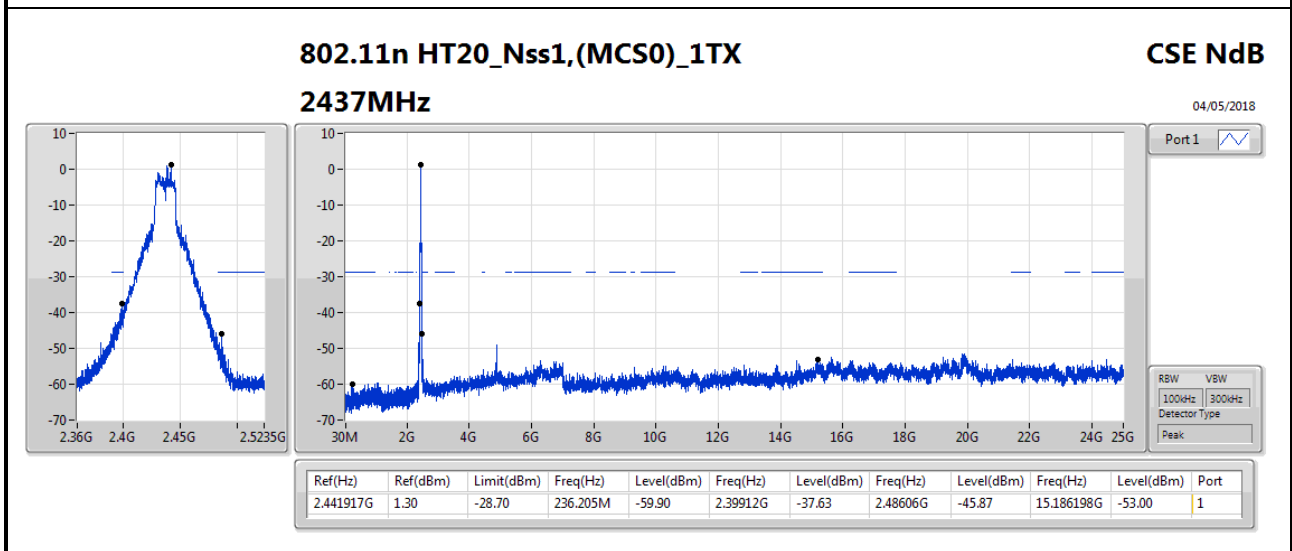
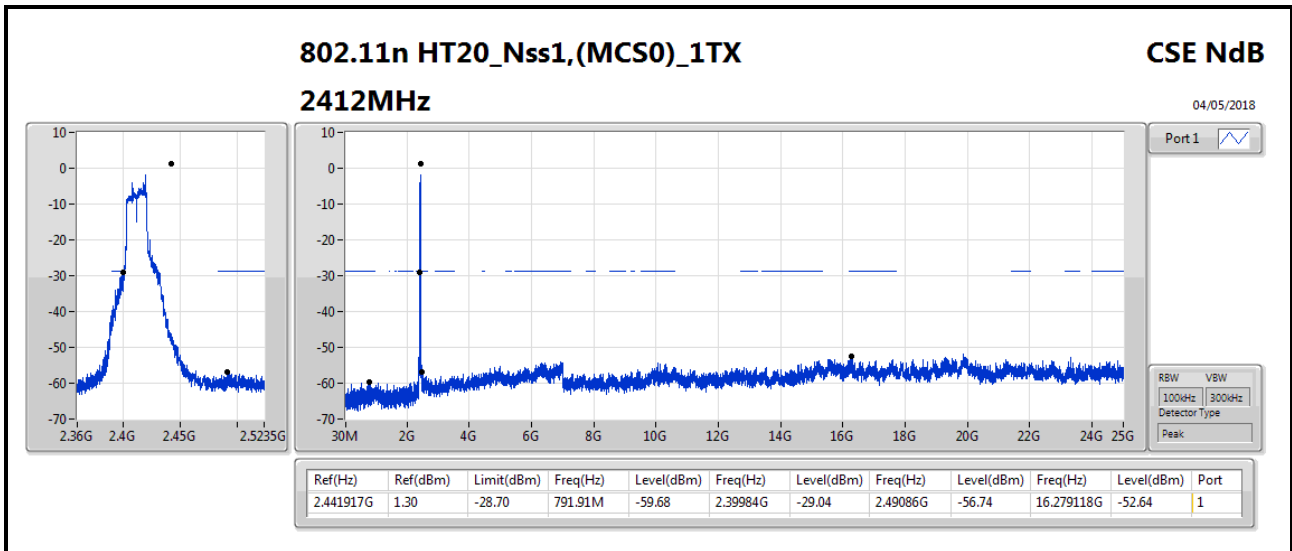
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.411356G	0.31	-29.69	622.985M	-59.55	2.39752G	-38.45	2.49798G	-56.72	15.245199G	-52.46	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.438243G	0.98	-29.02	858.315M	-60.60	2.39992G	-29.59	2.50158G	-57.18	21.673478G	-53.33	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.441917G	1.30	-28.70	791.91M	-59.68	2.39984G	-29.04	2.49086G	-56.74	16.279118G	-52.64	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.425718G	-7.68	-37.68	763.945M	-59.70	2.39264G	-38.24	2.4883G	-55.41	17.551082G	-53.36	1

Result

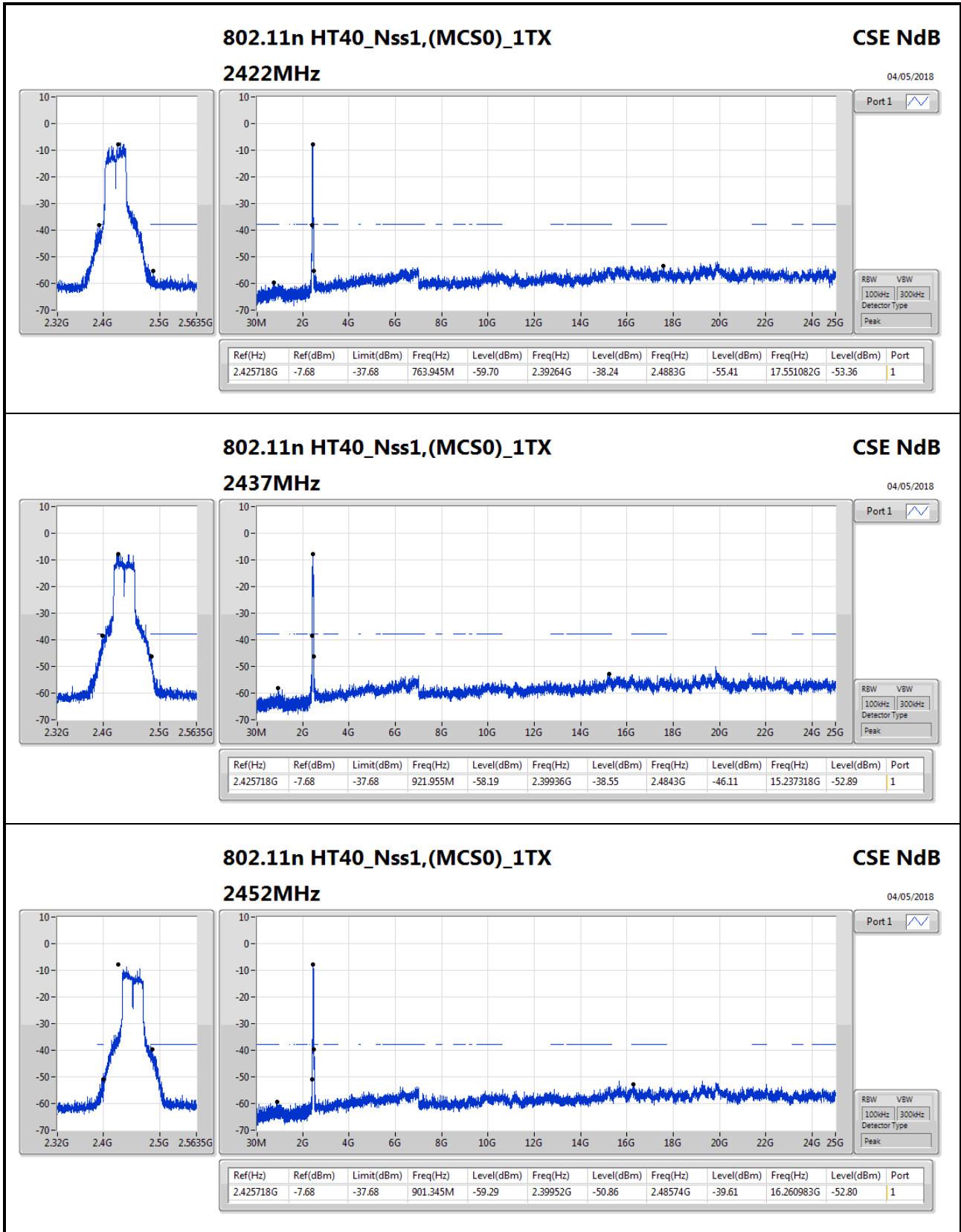
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.411356G	0.31	-29.69	622.985M	-59.55	2.39752G	-38.45	2.49798G	-56.72	15.245199G	-52.46	1
2437MHz_TnomVnom	Pass	2.411356G	0.31	-29.69	798.9M	-59.87	2.3952G	-57.63	2.5135G	-57.89	16.279118G	-52.41	1
2462MHz_TnomVnom	Pass	2.411356G	0.31	-29.69	2.132825G	-59.07	2.39128G	-57.65	2.48718G	-56.16	15.281723G	-52.91	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.438243G	0.98	-29.02	858.315M	-60.60	2.39992G	-29.59	2.50158G	-57.18	21.673478G	-53.33	1
2437MHz_TnomVnom	Pass	2.438243G	0.98	-29.02	1.641195G	-59.54	2.39984G	-39.90	2.48358G	-50.13	15.248009G	-52.17	1
2462MHz_TnomVnom	Pass	2.438243G	0.98	-29.02	725.505M	-59.91	2.3976G	-57.36	2.48358G	-37.61	15.225532G	-51.49	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.441917G	1.30	-28.70	791.91M	-59.68	2.39984G	-29.04	2.49086G	-56.74	16.279118G	-52.64	1
2437MHz_TnomVnom	Pass	2.441917G	1.30	-28.70	236.205M	-59.90	2.39912G	-37.63	2.48606G	-45.87	15.186198G	-53.00	1
2462MHz_TnomVnom	Pass	2.441917G	1.30	-28.70	1.87769G	-59.97	2.39376G	-58.34	2.48406G	-35.22	16.231355G	-52.68	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.425718G	-7.68	-37.68	763.945M	-59.70	2.39264G	-38.24	2.4883G	-55.41	17.551082G	-53.36	1
2437MHz_TnomVnom	Pass	2.425718G	-7.68	-37.68	921.955M	-58.19	2.39936G	-38.55	2.4843G	-46.11	15.237318G	-52.89	1
2452MHz_TnomVnom	Pass	2.425718G	-7.68	-37.68	901.345M	-59.29	2.39952G	-50.86	2.48574G	-39.61	16.260983G	-52.80	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)_1TX	Pass	PK	33.88M	38.44	40.00	-1.56	-15.28	3	Vertical	0	1.00	-



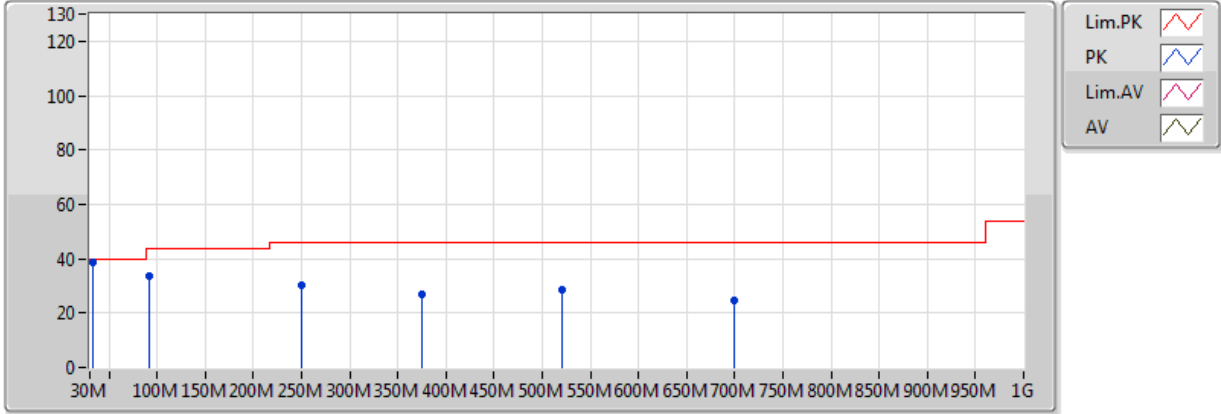
Result

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)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	33.88M	38.44	40.00	-1.56	-15.28	3	Vertical	0	1.00	-
2437MHz	Pass	PK	92.08M	33.47	43.50	-10.03	-22.10	3	Vertical	0	1.00	-
2437MHz	Pass	PK	249.22M	30.32	46.00	-15.68	-17.02	3	Vertical	0	1.00	-
2437MHz	Pass	PK	375.32M	27.15	46.00	-18.85	-14.65	3	Vertical	0	1.00	-
2437MHz	Pass	PK	520.82M	28.49	46.00	-17.51	-11.89	3	Vertical	0	1.00	-
2437MHz	Pass	PK	699.3M	24.49	46.00	-21.51	-9.46	3	Vertical	0	1.00	-
2437MHz	Pass	PK	92.08M	26.29	43.50	-17.21	-22.10	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	165.8M	25.60	43.50	-17.90	-20.25	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	249.22M	38.97	46.00	-7.03	-17.02	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	400.54M	37.58	46.00	-8.42	-13.87	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	485.9M	27.76	46.00	-18.24	-12.07	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	800.18M	30.64	46.00	-15.36	-7.88	3	Horizontal	360	1.00	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2437MHz\_PoE

03/05/2018

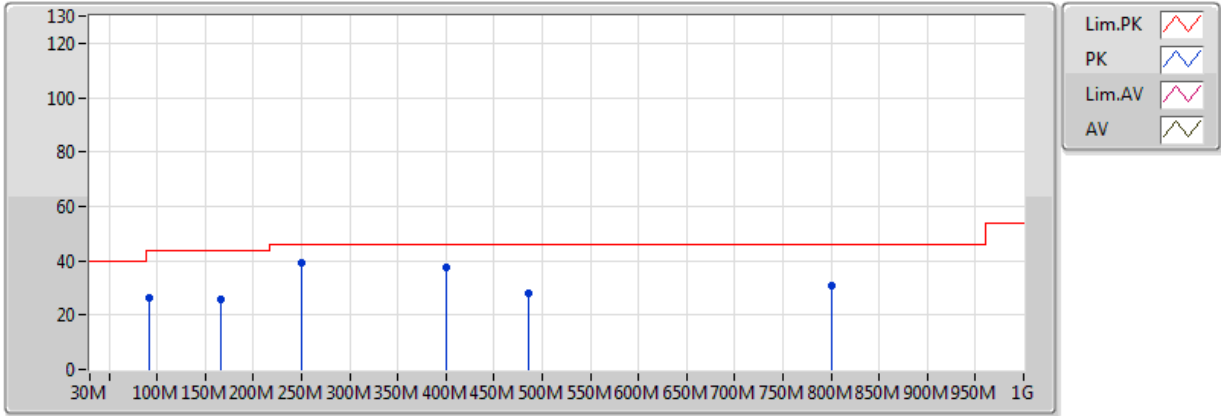


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	33.88M	38.44	40.00	-1.56	-15.28	3	Vertical	0	1.00	-
PK	92.08M	33.47	43.50	-10.03	-22.10	3	Vertical	0	1.00	-
PK	249.22M	30.32	46.00	-15.68	-17.02	3	Vertical	0	1.00	-
PK	375.32M	27.15	46.00	-18.85	-14.65	3	Vertical	0	1.00	-
PK	520.82M	28.49	46.00	-17.51	-11.89	3	Vertical	0	1.00	-
PK	699.3M	24.49	46.00	-21.51	-9.46	3	Vertical	0	1.00	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2437MHz\_PoE

03/05/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	92.08M	26.29	43.50	-17.21	-22.10	3	Horizontal	360	1.00	-
PK	165.8M	25.60	43.50	-17.90	-20.25	3	Horizontal	360	1.00	-
PK	249.22M	38.97	46.00	-7.03	-17.02	3	Horizontal	360	1.00	-
PK	400.54M	37.58	46.00	-8.42	-13.87	3	Horizontal	360	1.00	-
PK	485.9M	27.76	46.00	-18.24	-12.07	3	Horizontal	360	1.00	-
PK	800.18M	30.64	46.00	-15.36	-7.88	3	Horizontal	360	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)_1TX	Pass	AV	4.92394G	53.43	54.00	-0.57	4.68	3	Vertical	177	2.79	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	7.3122G	53.69	54.00	-0.31	10.37	3	Vertical	174	2.08	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.389998G	53.89	54.00	-0.11	34.05	3	Horizontal	107	1.09	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	AV	2.483502G	53.85	54.00	-0.15	34.07	3	Vertical	187	2.07	-



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)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3642G	45.84	54.00	-8.16	34.04	3	Vertical	164	1.24	-
2412MHz	Pass	AV	2.4138G	88.71	Inf	-Inf	34.05	3	Vertical	164	1.24	-
2412MHz	Pass	PK	2.366G	59.65	74.00	-14.35	34.05	3	Vertical	164	1.24	-
2412MHz	Pass	PK	2.4148G	90.91	Inf	-Inf	34.05	3	Vertical	164	1.24	-
2412MHz	Pass	AV	2.3664G	45.90	54.00	-8.10	34.05	3	Horizontal	113	1.06	-
2412MHz	Pass	AV	2.4138G	88.06	Inf	-Inf	34.05	3	Horizontal	113	1.06	-
2412MHz	Pass	PK	2.3816G	60.16	74.00	-13.84	34.05	3	Horizontal	113	1.06	-
2412MHz	Pass	PK	2.4148G	90.32	Inf	-Inf	34.05	3	Horizontal	113	1.06	-
2412MHz	Pass	AV	4.82394G	53.12	54.00	-0.88	4.31	3	Vertical	173	2.49	-
2412MHz	Pass	PK	4.824G	55.10	74.00	-18.90	4.31	3	Vertical	173	2.49	-
2412MHz	Pass	AV	4.82394G	53.40	54.00	-0.60	4.31	3	Horizontal	191	2.61	-
2412MHz	Pass	PK	4.82394G	54.96	74.00	-19.04	4.31	3	Horizontal	191	2.61	-
2437MHz	Pass	AV	2.375G	45.72	54.00	-8.28	34.05	3	Vertical	170	1.21	-
2437MHz	Pass	AV	2.4998G	46.13	54.00	-7.87	34.07	3	Vertical	170	1.21	-
2437MHz	Pass	AV	2.4386G	89.50	Inf	-Inf	34.06	3	Vertical	170	1.21	-
2437MHz	Pass	PK	2.3382G	58.77	74.00	-15.23	34.05	3	Vertical	170	1.21	-
2437MHz	Pass	PK	2.4882G	58.75	74.00	-15.25	34.07	3	Vertical	170	1.21	-
2437MHz	Pass	PK	2.4398G	91.89	Inf	-Inf	34.06	3	Vertical	170	1.21	-
2437MHz	Pass	AV	2.371G	45.76	54.00	-8.24	34.05	3	Horizontal	194	1.31	-
2437MHz	Pass	AV	2.4998G	46.00	54.00	-8.00	34.07	3	Horizontal	194	1.31	-
2437MHz	Pass	AV	2.4386G	87.67	Inf	-Inf	34.06	3	Horizontal	194	1.31	-
2437MHz	Pass	PK	2.3726G	58.77	74.00	-15.23	34.05	3	Horizontal	194	1.31	-
2437MHz	Pass	PK	2.491G	59.10	74.00	-14.90	34.07	3	Horizontal	194	1.31	-
2437MHz	Pass	PK	2.4382G	89.93	Inf	-Inf	34.06	3	Horizontal	194	1.31	-
2437MHz	Pass	AV	4.874G	53.37	54.00	-0.63	4.49	3	Vertical	165	2.92	-
2437MHz	Pass	PK	4.87388G	55.30	74.00	-18.70	4.49	3	Vertical	165	2.92	-
2437MHz	Pass	AV	4.87394G	52.40	54.00	-1.60	4.49	3	Horizontal	194	2.40	-
2437MHz	Pass	PK	4.87406G	54.76	74.00	-19.24	4.49	3	Horizontal	194	2.40	-
2462MHz	Pass	AV	2.4996G	46.11	54.00	-7.89	34.07	3	Vertical	164	1.04	-
2462MHz	Pass	AV	2.4602G	91.35	Inf	-Inf	34.06	3	Vertical	164	1.04	-
2462MHz	Pass	PK	2.485G	59.34	74.00	-14.66	34.07	3	Vertical	164	1.04	-
2462MHz	Pass	PK	2.4594G	93.52	Inf	-Inf	34.06	3	Vertical	164	1.04	-
2462MHz	Pass	AV	2.4972G	46.13	54.00	-7.87	34.07	3	Horizontal	192	2.16	-
2462MHz	Pass	AV	2.4602G	88.33	Inf	-Inf	34.06	3	Horizontal	192	2.16	-
2462MHz	Pass	PK	2.4958G	58.79	74.00	-15.21	34.07	3	Horizontal	192	2.16	-
2462MHz	Pass	PK	2.4592G	90.43	Inf	-Inf	34.06	3	Horizontal	192	2.16	-
2462MHz	Pass	AV	4.92394G	53.43	54.00	-0.57	4.68	3	Vertical	177	2.79	-
2462MHz	Pass	PK	4.92388G	55.65	74.00	-18.35	4.68	3	Vertical	177	2.79	-
2462MHz	Pass	AV	4.92394G	51.38	54.00	-2.62	4.68	3	Horizontal	133	1.09	-
2462MHz	Pass	PK	4.92388G	53.89	74.00	-20.11	4.68	3	Horizontal	133	1.09	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.389998G	53.08	54.00	-0.92	34.05	3	Vertical	165	1.09	-
2412MHz	Pass	AV	2.4186G	88.47	Inf	-Inf	34.05	3	Vertical	165	1.09	-
2412MHz	Pass	PK	2.389G	69.06	74.00	-4.94	34.05	3	Vertical	165	1.09	-
2412MHz	Pass	PK	2.4194G	98.27	Inf	-Inf	34.05	3	Vertical	165	1.09	-
2412MHz	Pass	AV	2.389998G	53.50	54.00	-0.50	34.05	3	Horizontal	112	1.06	-
2412MHz	Pass	AV	2.4182G	87.10	Inf	-Inf	34.05	3	Horizontal	112	1.06	-



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	2.38998G	69.77	74.00	-4.23	34.05	3	Horizontal	112	1.06	-
2412MHz	Pass	PK	2.4104G	97.50	Inf	-Inf	34.05	3	Horizontal	112	1.06	-
2412MHz	Pass	AV	4.825G	52.19	54.00	-1.81	4.31	3	Vertical	175	2.64	-
2412MHz	Pass	PK	4.8282G	62.91	74.00	-11.09	4.32	3	Vertical	175	2.64	-
2412MHz	Pass	AV	4.8248G	52.84	54.00	-1.16	4.31	3	Horizontal	189	2.60	-
2412MHz	Pass	PK	4.8234G	64.55	74.00	-9.45	4.30	3	Horizontal	189	2.60	-
2437MHz	Pass	AV	2.389G	45.93	54.00	-8.07	34.05	3	Vertical	164	1.22	-
2437MHz	Pass	AV	2.485G	46.27	54.00	-7.73	34.07	3	Vertical	164	1.22	-
2437MHz	Pass	AV	2.4414G	88.18	Inf	-Inf	34.06	3	Vertical	164	1.22	-
2437MHz	Pass	PK	2.351G	59.56	74.00	-14.44	34.05	3	Vertical	164	1.22	-
2437MHz	Pass	PK	2.489G	58.48	74.00	-15.52	34.07	3	Vertical	164	1.22	-
2437MHz	Pass	PK	2.4426G	98.36	Inf	-Inf	34.06	3	Vertical	164	1.22	-
2437MHz	Pass	AV	2.389G	46.01	54.00	-7.99	34.05	3	Horizontal	191	1.47	-
2437MHz	Pass	AV	2.4862G	46.18	54.00	-7.82	34.07	3	Horizontal	191	1.47	-
2437MHz	Pass	AV	2.431G	86.51	Inf	-Inf	34.06	3	Horizontal	191	1.47	-
2437MHz	Pass	PK	2.3426G	59.98	74.00	-14.02	34.04	3	Horizontal	191	1.47	-
2437MHz	Pass	PK	2.4962G	59.81	74.00	-14.19	34.07	3	Horizontal	191	1.47	-
2437MHz	Pass	PK	2.4314G	96.50	Inf	-Inf	34.06	3	Horizontal	191	1.47	-
2437MHz	Pass	AV	4.875G	50.18	54.00	-3.82	4.49	3	Vertical	167	1.86	-
2437MHz	Pass	AV	7.3122G	53.69	54.00	-0.31	10.37	3	Vertical	174	2.08	-
2437MHz	Pass	PK	4.8716G	60.98	74.00	-13.02	4.48	3	Vertical	167	1.86	-
2437MHz	Pass	PK	7.3142G	66.41	74.00	-7.59	10.38	3	Vertical	174	2.08	-
2437MHz	Pass	AV	4.8746G	50.85	54.00	-3.15	4.49	3	Horizontal	105	1.28	-
2437MHz	Pass	AV	7.3122G	51.42	54.00	-2.58	10.37	3	Horizontal	224	1.63	-
2437MHz	Pass	PK	4.8772G	61.92	74.00	-12.08	4.50	3	Horizontal	105	1.28	-
2437MHz	Pass	PK	7.3148G	63.75	74.00	-10.25	10.38	3	Horizontal	224	1.63	-
2457MHz	Pass	AV	2.4506G	90.13	Inf	-Inf	34.06	3	Vertical	186	2.09	-
2457MHz	Pass	AV	2.483502G	51.43	54.00	-2.57	34.07	3	Vertical	186	2.09	-
2457MHz	Pass	PK	2.4586G	100.91	Inf	-Inf	34.06	3	Vertical	186	2.09	-
2457MHz	Pass	PK	2.485G	69.03	74.00	-4.97	34.07	3	Vertical	186	2.09	-
2457MHz	Pass	AV	2.4506G	87.36	Inf	-Inf	34.06	3	Horizontal	138	1.46	-
2457MHz	Pass	AV	2.483502G	48.77	54.00	-5.23	34.07	3	Horizontal	138	1.46	-
2457MHz	Pass	PK	2.4508G	97.47	Inf	-Inf	34.06	3	Horizontal	138	1.46	-
2457MHz	Pass	PK	2.485G	62.45	74.00	-11.55	34.07	3	Horizontal	138	1.46	-
2462MHz	Pass	AV	2.483502G	53.64	54.00	-0.36	34.07	3	Vertical	164	1.06	-
2462MHz	Pass	AV	2.457G	87.82	Inf	-Inf	34.06	3	Vertical	164	1.06	-
2462MHz	Pass	PK	2.4836G	72.37	74.00	-1.63	34.07	3	Vertical	164	1.06	-
2462MHz	Pass	PK	2.4586G	98.52	Inf	-Inf	34.06	3	Vertical	164	1.06	-
2462MHz	Pass	AV	2.483502G	49.46	54.00	-4.54	34.07	3	Horizontal	166	1.24	-
2462MHz	Pass	AV	2.4578G	84.38	Inf	-Inf	34.06	3	Horizontal	166	1.24	-
2462MHz	Pass	PK	2.483502G	65.85	74.00	-8.15	34.07	3	Horizontal	166	1.24	-
2462MHz	Pass	PK	2.4584G	95.01	Inf	-Inf	34.06	3	Horizontal	166	1.24	-
2462MHz	Pass	AV	4.9236G	47.36	54.00	-6.64	4.68	3	Vertical	218	2.49	-
2462MHz	Pass	AV	7.3828G	48.97	54.00	-5.03	10.51	3	Vertical	179	1.07	-
2462MHz	Pass	PK	4.924G	58.79	74.00	-15.21	4.68	3	Vertical	218	2.49	-
2462MHz	Pass	PK	7.3836G	60.58	74.00	-13.42	10.51	3	Vertical	179	1.07	-
2462MHz	Pass	AV	4.9252G	46.10	54.00	-7.90	4.68	3	Horizontal	131	1.19	-
2462MHz	Pass	AV	7.3842G	49.22	54.00	-4.78	10.51	3	Horizontal	144	2.25	-
2462MHz	Pass	PK	4.9234G	58.38	74.00	-15.62	4.68	3	Horizontal	131	1.19	-





RSE TX above 1GHz Result

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	7.378G	60.85	74.00	-13.15	10.50	3	Horizontal	144	2.25	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.389998G	53.88	54.00	-0.12	34.05	3	Vertical	160	1.10	-
2412MHz	Pass	AV	2.419G	87.59	Inf	-Inf	34.05	3	Vertical	160	1.10	-
2412MHz	Pass	PK	2.389998G	69.96	74.00	-4.04	34.05	3	Vertical	160	1.10	-
2412MHz	Pass	PK	2.4192G	97.56	Inf	-Inf	34.05	3	Vertical	160	1.10	-
2412MHz	Pass	AV	2.389998G	53.89	54.00	-0.11	34.05	3	Horizontal	107	1.09	-
2412MHz	Pass	AV	2.4186G	86.42	Inf	-Inf	34.05	3	Horizontal	107	1.09	-
2412MHz	Pass	PK	2.389998G	70.02	74.00	-3.98	34.05	3	Horizontal	107	1.09	-
2412MHz	Pass	PK	2.418G	97.01	Inf	-Inf	34.05	3	Horizontal	107	1.09	-
2412MHz	Pass	AV	4.8236G	49.94	54.00	-4.06	4.30	3	Vertical	178	3.15	-
2412MHz	Pass	PK	4.8232G	60.99	74.00	-13.01	4.30	3	Vertical	178	3.15	-
2412MHz	Pass	AV	4.8252G	50.88	54.00	-3.12	4.31	3	Horizontal	189	2.62	-
2412MHz	Pass	PK	4.8212G	62.76	74.00	-11.24	4.29	3	Horizontal	189	2.62	-
2437MHz	Pass	AV	2.3898G	46.29	54.00	-7.71	34.05	3	Vertical	163	1.21	-
2437MHz	Pass	AV	2.483502G	46.74	54.00	-7.26	34.07	3	Vertical	163	1.21	-
2437MHz	Pass	AV	2.441G	88.38	Inf	-Inf	34.06	3	Vertical	163	1.21	-
2437MHz	Pass	PK	2.3898G	59.82	74.00	-14.18	34.05	3	Vertical	163	1.21	-
2437MHz	Pass	PK	2.4894G	63.58	74.00	-10.42	34.07	3	Vertical	163	1.21	-
2437MHz	Pass	PK	2.4406G	98.40	Inf	-Inf	34.06	3	Vertical	163	1.21	-
2437MHz	Pass	AV	2.389G	46.34	54.00	-7.66	34.05	3	Horizontal	191	1.48	-
2437MHz	Pass	AV	2.4838G	46.34	54.00	-7.66	34.07	3	Horizontal	191	1.48	-
2437MHz	Pass	AV	2.4302G	86.73	Inf	-Inf	34.06	3	Horizontal	191	1.48	-
2437MHz	Pass	PK	2.3794G	59.60	74.00	-14.40	34.05	3	Horizontal	191	1.48	-
2437MHz	Pass	PK	2.485G	59.39	74.00	-14.61	34.07	3	Horizontal	191	1.48	-
2437MHz	Pass	PK	2.4342G	96.54	Inf	-Inf	34.06	3	Horizontal	191	1.48	-
2437MHz	Pass	AV	4.876G	50.85	54.00	-3.15	4.50	3	Vertical	162	1.06	-
2437MHz	Pass	AV	7.3102G	53.58	54.00	-0.42	10.37	3	Vertical	175	2.92	-
2437MHz	Pass	PK	4.8788G	62.01	74.00	-11.99	4.51	3	Vertical	162	1.06	-
2437MHz	Pass	PK	7.3018G	65.30	74.00	-8.70	10.35	3	Vertical	175	2.92	-
2437MHz	Pass	AV	4.875G	50.94	54.00	-3.06	4.49	3	Horizontal	191	2.41	-
2437MHz	Pass	AV	7.3152G	52.73	54.00	-1.27	10.38	3	Horizontal	208	1.62	-
2437MHz	Pass	PK	4.8764G	62.44	74.00	-11.56	4.50	3	Horizontal	191	2.41	-
2437MHz	Pass	PK	7.312G	63.75	74.00	-10.25	10.37	3	Horizontal	208	1.62	-
2457MHz	Pass	AV	2.4506G	90.14	Inf	-Inf	34.06	3	Vertical	187	2.08	-
2457MHz	Pass	AV	2.483502G	52.69	54.00	-1.31	34.07	3	Vertical	187	2.08	-
2457MHz	Pass	PK	2.451G	100.04	Inf	-Inf	34.06	3	Vertical	187	2.08	-
2457MHz	Pass	PK	2.484G	69.81	74.00	-4.19	34.07	3	Vertical	187	2.08	-
2457MHz	Pass	AV	2.4504G	87.08	Inf	-Inf	34.06	3	Horizontal	138	1.49	-
2457MHz	Pass	AV	2.483502G	49.26	54.00	-4.74	34.07	3	Horizontal	138	1.49	-
2457MHz	Pass	PK	2.4504G	97.78	Inf	-Inf	34.06	3	Horizontal	138	1.49	-
2457MHz	Pass	PK	2.4846G	64.28	74.00	-9.72	34.07	3	Horizontal	138	1.49	-
2462MHz	Pass	AV	2.483502G	53.14	54.00	-0.86	34.07	3	Vertical	162	1.06	-
2462MHz	Pass	AV	2.4576G	87.25	Inf	-Inf	34.06	3	Vertical	162	1.06	-
2462MHz	Pass	PK	2.483502G	70.38	74.00	-3.62	34.07	3	Vertical	162	1.06	-
2462MHz	Pass	PK	2.4544G	96.96	Inf	-Inf	34.06	3	Vertical	162	1.06	-
2462MHz	Pass	AV	2.483502G	49.49	54.00	-4.51	34.07	3	Horizontal	165	1.24	-
2462MHz	Pass	AV	2.4576G	83.94	Inf	-Inf	34.06	3	Horizontal	165	1.24	-
2462MHz	Pass	PK	2.485G	63.88	74.00	-10.12	34.07	3	Horizontal	165	1.24	-



RSE TX above 1GHz Result

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	2.4594G	94.72	Inf	-Inf	34.06	3	Horizontal	165	1.24	-
2462MHz	Pass	AV	7.3856G	47.15	54.00	-6.85	10.51	3	Vertical	178	2.03	-
2462MHz	Pass	PK	7.381G	60.11	74.00	-13.89	10.50	3	Vertical	178	2.03	-
2462MHz	Pass	AV	7.3868G	46.34	54.00	-7.66	10.51	3	Horizontal	146	1.23	-
2462MHz	Pass	PK	7.387G	59.37	74.00	-14.63	10.52	3	Horizontal	146	1.23	-
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.389998G	53.23	54.00	-0.77	34.05	3	Vertical	163	1.13	-
2422MHz	Pass	AV	2.4848G	47.28	54.00	-6.72	34.07	3	Vertical	163	1.13	-
2422MHz	Pass	AV	2.43G	84.11	Inf	-Inf	34.06	3	Vertical	163	1.13	-
2422MHz	Pass	PK	2.389998G	65.22	74.00	-8.78	34.05	3	Vertical	163	1.13	-
2422MHz	Pass	PK	2.4844G	61.69	74.00	-12.31	34.07	3	Vertical	163	1.13	-
2422MHz	Pass	PK	2.428G	93.87	Inf	-Inf	34.06	3	Vertical	163	1.13	-
2422MHz	Pass	AV	2.389998G	53.37	54.00	-0.63	34.05	3	Horizontal	191	1.48	-
2422MHz	Pass	AV	2.483502G	46.53	54.00	-7.47	34.07	3	Horizontal	191	1.48	-
2422MHz	Pass	AV	2.4304G	82.47	Inf	-Inf	34.06	3	Horizontal	191	1.48	-
2422MHz	Pass	PK	2.3892G	66.53	74.00	-7.47	34.05	3	Horizontal	191	1.48	-
2422MHz	Pass	PK	2.4984G	58.82	74.00	-15.18	34.07	3	Horizontal	191	1.48	-
2422MHz	Pass	PK	2.4308G	92.77	Inf	-Inf	34.06	3	Horizontal	191	1.48	-
2422MHz	Pass	AV	7.2806G	44.93	54.00	-9.07	10.31	3	Vertical	174	1.82	-
2422MHz	Pass	PK	7.2798G	56.68	74.00	-17.32	10.31	3	Vertical	174	1.82	-
2422MHz	Pass	AV	7.279G	44.25	54.00	-9.75	10.31	3	Horizontal	134	2.31	-
2422MHz	Pass	PK	7.3028G	56.68	74.00	-17.32	10.36	3	Horizontal	134	2.31	-
2437MHz	Pass	AV	2.3898G	48.63	54.00	-5.37	34.05	3	Vertical	162	1.02	-
2437MHz	Pass	AV	2.483502G	53.17	54.00	-0.83	34.07	3	Vertical	162	1.02	-
2437MHz	Pass	AV	2.4486G	84.00	Inf	-Inf	34.06	3	Vertical	162	1.02	-
2437MHz	Pass	PK	2.3894G	61.87	74.00	-12.13	34.05	3	Vertical	162	1.02	-
2437MHz	Pass	PK	2.4842G	67.80	74.00	-6.20	34.07	3	Vertical	162	1.02	-
2437MHz	Pass	PK	2.4494G	94.04	Inf	-Inf	34.06	3	Vertical	162	1.02	-
2437MHz	Pass	AV	2.3898G	48.51	54.00	-5.49	34.05	3	Horizontal	192	1.05	-
2437MHz	Pass	AV	2.483502G	49.11	54.00	-4.89	34.07	3	Horizontal	192	1.05	-
2437MHz	Pass	AV	2.4302G	82.01	Inf	-Inf	34.06	3	Horizontal	192	1.05	-
2437MHz	Pass	PK	2.3882G	62.83	74.00	-11.17	34.05	3	Horizontal	192	1.05	-
2437MHz	Pass	PK	2.4846G	63.07	74.00	-10.93	34.07	3	Horizontal	192	1.05	-
2437MHz	Pass	PK	2.4298G	91.86	Inf	-Inf	34.06	3	Horizontal	192	1.05	-
2437MHz	Pass	AV	7.3186G	44.54	54.00	-9.46	10.39	3	Vertical	173	2.07	-
2437MHz	Pass	PK	7.3212G	56.22	74.00	-17.78	10.39	3	Vertical	173	2.07	-
2437MHz	Pass	AV	7.3168G	43.77	54.00	-10.23	10.38	3	Horizontal	134	2.21	-
2437MHz	Pass	PK	7.307G	55.42	74.00	-18.58	10.36	3	Horizontal	134	2.21	-
2442MHz	Pass	AV	2.389998G	47.01	54.00	-6.99	34.05	3	Vertical	187	2.07	-
2442MHz	Pass	AV	2.4492G	83.12	Inf	-Inf	34.06	3	Vertical	187	2.07	-
2442MHz	Pass	AV	2.483502G	53.85	54.00	-0.15	34.07	3	Vertical	187	2.07	-
2442MHz	Pass	PK	2.3896G	60.05	74.00	-13.95	34.05	3	Vertical	187	2.07	-
2442MHz	Pass	PK	2.452G	93.69	Inf	-Inf	34.06	3	Vertical	187	2.07	-
2442MHz	Pass	PK	2.483502G	69.34	74.00	-4.66	34.07	3	Vertical	187	2.07	-
2442MHz	Pass	AV	2.389998G	47.12	54.00	-6.88	34.05	3	Horizontal	142	1.00	-
2442MHz	Pass	AV	2.4304G	81.45	Inf	-Inf	34.06	3	Horizontal	142	1.00	-
2442MHz	Pass	AV	2.483502G	50.71	54.00	-3.29	34.07	3	Horizontal	142	1.00	-
2442MHz	Pass	PK	2.3896G	61.09	74.00	-12.91	34.05	3	Horizontal	142	1.00	-
2442MHz	Pass	PK	2.4356G	92.14	Inf	-Inf	34.06	3	Horizontal	142	1.00	-



RSE TX above 1GHz Result

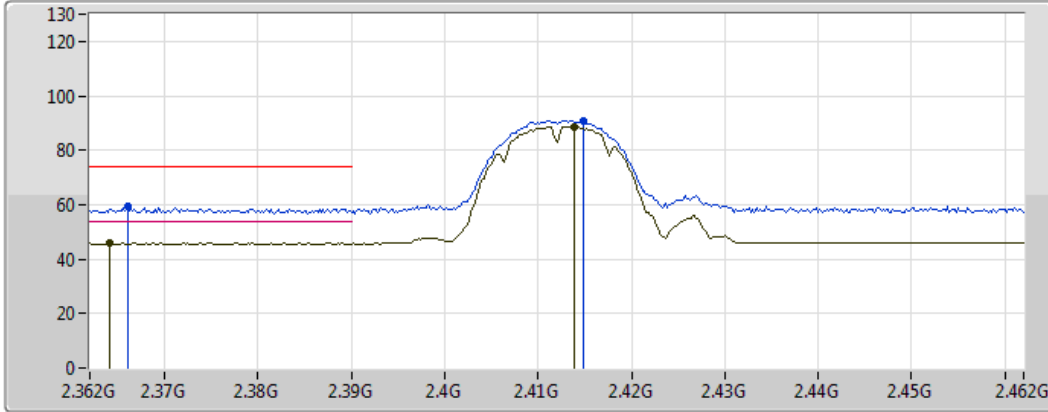
Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2442MHz	Pass	PK	2.483502G	65.72	74.00	-8.28	34.07	3	Horizontal	142	1.00	-
2447MHz	Pass	AV	2.3894G	46.59	54.00	-7.41	34.05	3	Vertical	187	2.08	-
2447MHz	Pass	AV	2.4398G	82.45	Inf	-Inf	34.06	3	Vertical	187	2.08	-
2447MHz	Pass	AV	2.483502G	53.60	54.00	-0.40	34.07	3	Vertical	187	2.08	-
2447MHz	Pass	PK	2.3574G	60.50	74.00	-13.50	34.05	3	Vertical	187	2.08	-
2447MHz	Pass	PK	2.4374G	93.26	Inf	-Inf	34.06	3	Vertical	187	2.08	-
2447MHz	Pass	PK	2.4846G	68.14	74.00	-5.86	34.07	3	Vertical	187	2.08	-
2447MHz	Pass	AV	2.3898G	46.62	54.00	-7.38	34.05	3	Horizontal	140	1.83	-
2447MHz	Pass	AV	2.4386G	80.74	Inf	-Inf	34.06	3	Horizontal	140	1.83	-
2447MHz	Pass	AV	2.483502G	50.20	54.00	-3.80	34.07	3	Horizontal	140	1.83	-
2447MHz	Pass	PK	2.389G	61.16	74.00	-12.84	34.05	3	Horizontal	140	1.83	-
2447MHz	Pass	PK	2.4378G	90.98	Inf	-Inf	34.06	3	Horizontal	140	1.83	-
2447MHz	Pass	PK	2.4886G	65.16	74.00	-8.84	34.07	3	Horizontal	140	1.83	-
2452MHz	Pass	AV	2.3528G	45.76	54.00	-8.24	34.05	3	Vertical	161	1.21	-
2452MHz	Pass	AV	2.483502G	53.41	54.00	-0.59	34.07	3	Vertical	161	1.21	-
2452MHz	Pass	AV	2.44G	82.39	Inf	-Inf	34.06	3	Vertical	161	1.21	-
2452MHz	Pass	PK	2.3872G	58.49	74.00	-15.51	34.05	3	Vertical	161	1.21	-
2452MHz	Pass	PK	2.483502G	67.39	74.00	-6.61	34.07	3	Vertical	161	1.21	-
2452MHz	Pass	PK	2.44G	92.41	Inf	-Inf	34.06	3	Vertical	161	1.21	-
2452MHz	Pass	AV	2.382G	45.69	54.00	-8.31	34.05	3	Horizontal	186	1.68	-
2452MHz	Pass	AV	2.484G	50.51	54.00	-3.49	34.07	3	Horizontal	186	1.68	-
2452MHz	Pass	AV	2.4404G	80.39	Inf	-Inf	34.06	3	Horizontal	186	1.68	-
2452MHz	Pass	PK	2.3564G	58.59	74.00	-15.41	34.05	3	Horizontal	186	1.68	-
2452MHz	Pass	PK	2.483502G	63.53	74.00	-10.47	34.07	3	Horizontal	186	1.68	-
2452MHz	Pass	PK	2.4384G	89.67	Inf	-Inf	34.06	3	Horizontal	186	1.68	-
2452MHz	Pass	AV	7.3512G	41.07	54.00	-12.93	10.45	3	Vertical	176	0.00	-
2452MHz	Pass	PK	7.3618G	52.16	74.00	-21.84	10.47	3	Vertical	176	0.00	-
2452MHz	Pass	AV	7.36G	40.95	54.00	-13.05	10.46	3	Horizontal	137	0.00	-
2452MHz	Pass	PK	7.3582G	51.93	74.00	-22.07	10.46	3	Horizontal	137	0.00	-

### 802.11b\_Nss1,(1Mbps)\_1TX

### 2412MHz\_TX

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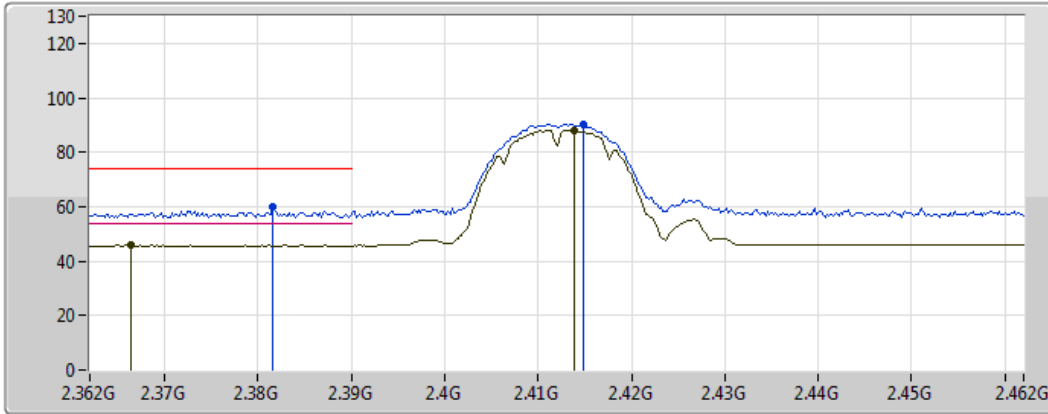


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3642G	45.84	54.00	-8.16	34.04	3	Vertical	164	1.24	-
AV	2.4138G	88.71	Inf	-Inf	34.05	3	Vertical	164	1.24	-
PK	2.366G	59.65	74.00	-14.35	34.05	3	Vertical	164	1.24	-
PK	2.4148G	90.91	Inf	-Inf	34.05	3	Vertical	164	1.24	-

### 802.11b\_Nss1,(1Mbps)\_1TX

### 2412MHz\_TX

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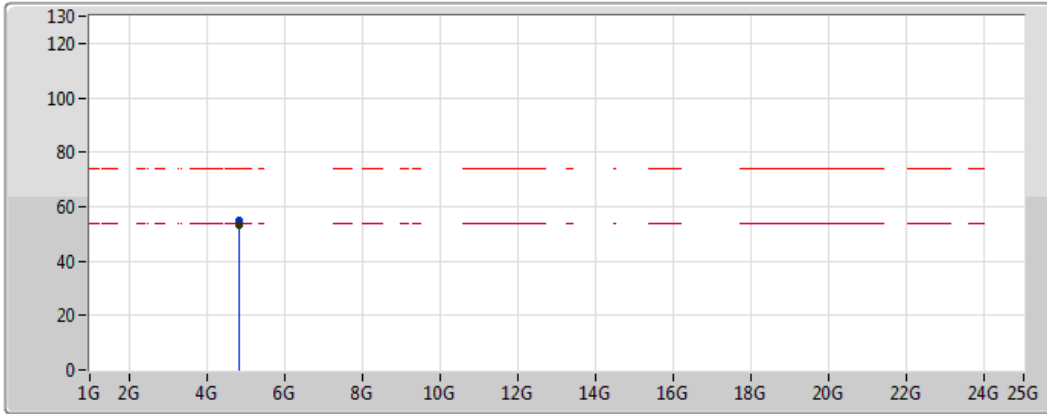






Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3664G	45.90	54.00	-8.10	34.05	3	Horizontal	113	1.06	-
AV	2.4138G	88.06	Inf	-Inf	34.05	3	Horizontal	113	1.06	-
PK	2.3816G	60.16	74.00	-13.84	34.05	3	Horizontal	113	1.06	-
PK	2.4148G	90.32	Inf	-Inf	34.05	3	Horizontal	113	1.06	-

### 802.11b\_Nss1,(1Mbps)\_1TX

### 2412MHz\_TX

03/05/2018



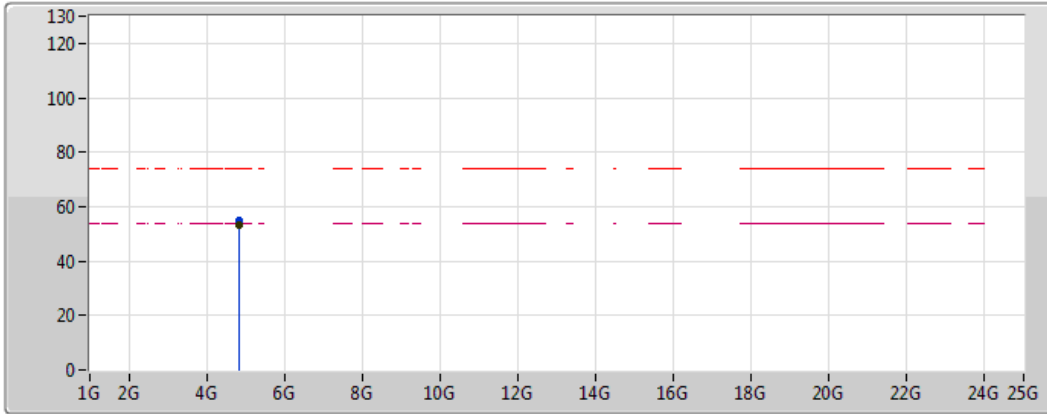
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Lim.AV	
AV	




Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82394G	53.12	54.00	-0.88	4.31	3	Vertical	173	2.49	-
PK	4.824G	55.10	74.00	-18.90	4.31	3	Vertical	173	2.49	-

### 802.11b\_Nss1,(1Mbps)\_1TX

### 2412MHz\_TX

03/05/2018



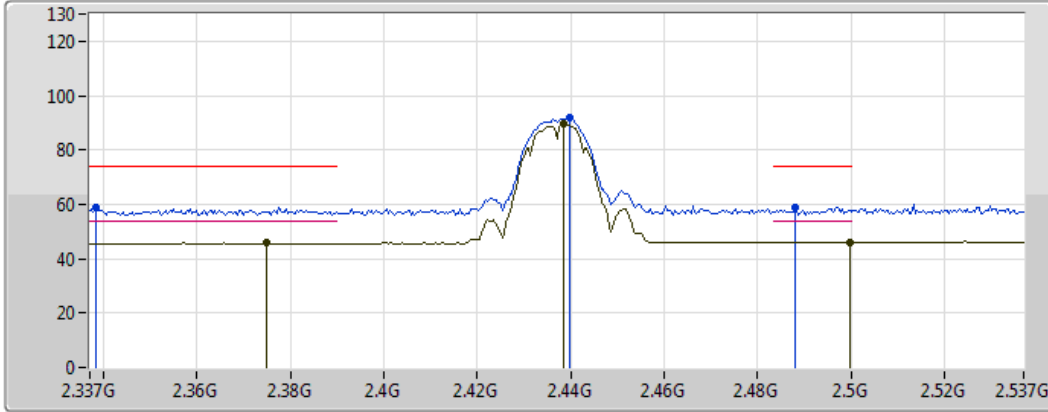
Lim.PK	
PK	
Lim.AV	
AV	

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82394G	53.40	54.00	-0.60	4.31	3	Horizontal	191	2.61	-
PK	4.82394G	54.96	74.00	-19.04	4.31	3	Horizontal	191	2.61	-

### 802.11b\_Nss1,(1Mbps)\_1TX

### 2437MHz\_TX

03/05/2018



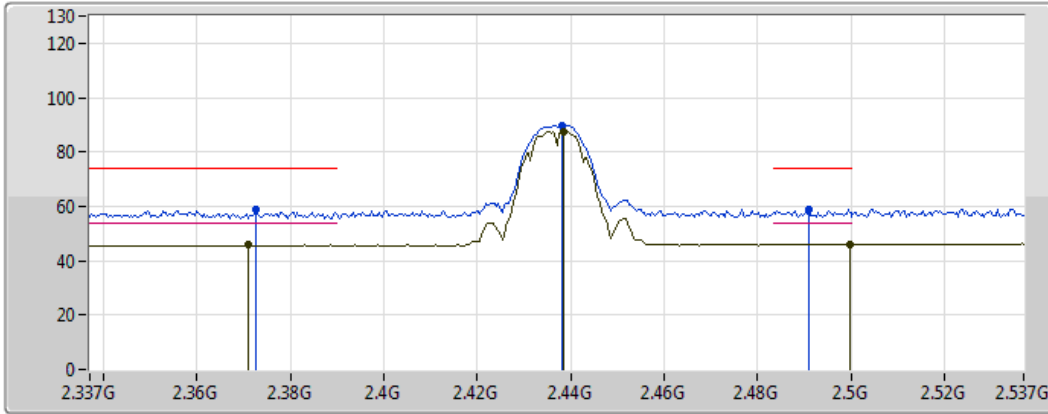
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.375G	45.72	54.00	-8.28	34.05	3	Vertical	170	1.21	-
AV	2.4998G	46.13	54.00	-7.87	34.07	3	Vertical	170	1.21	-
AV	2.4386G	89.50	Inf	-Inf	34.06	3	Vertical	170	1.21	-
PK	2.3382G	58.77	74.00	-15.23	34.05	3	Vertical	170	1.21	-
PK	2.4882G	58.75	74.00	-15.25	34.07	3	Vertical	170	1.21	-
PK	2.4398G	91.89	Inf	-Inf	34.06	3	Vertical	170	1.21	-






### 802.11b\_Nss1,(1Mbps)\_1TX

### 2437MHz\_TX

03/05/2018



Lim.PK	
PK	
Lim.AV	
AV	

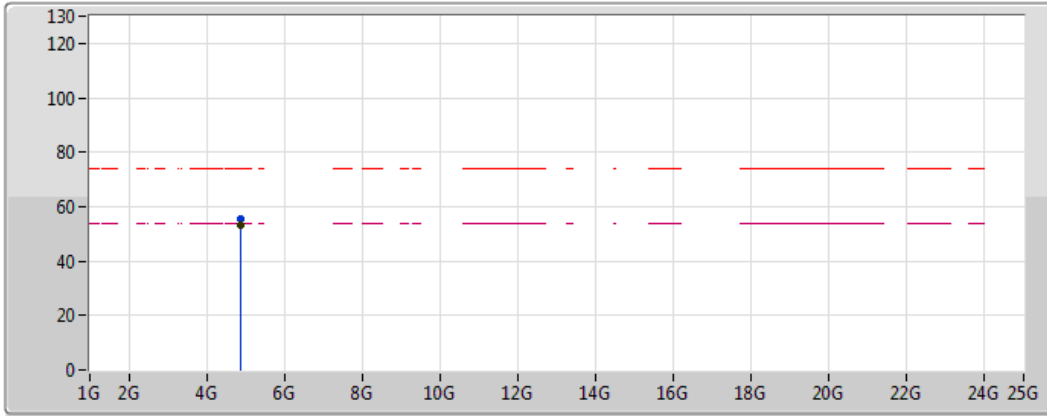
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.371G	45.76	54.00	-8.24	34.05	3	Horizontal	194	1.31	-
AV	2.4998G	46.00	54.00	-8.00	34.07	3	Horizontal	194	1.31	-
AV	2.4386G	87.67	Inf	-Inf	34.06	3	Horizontal	194	1.31	-
PK	2.3726G	58.77	74.00	-15.23	34.05	3	Horizontal	194	1.31	-
PK	2.491G	59.10	74.00	-14.90	34.07	3	Horizontal	194	1.31	-
PK	2.4382G	89.93	Inf	-Inf	34.06	3	Horizontal	194	1.31	-



### 802.11b\_Nss1,(1Mbps)\_1TX

### 2437MHz\_TX

03/05/2018

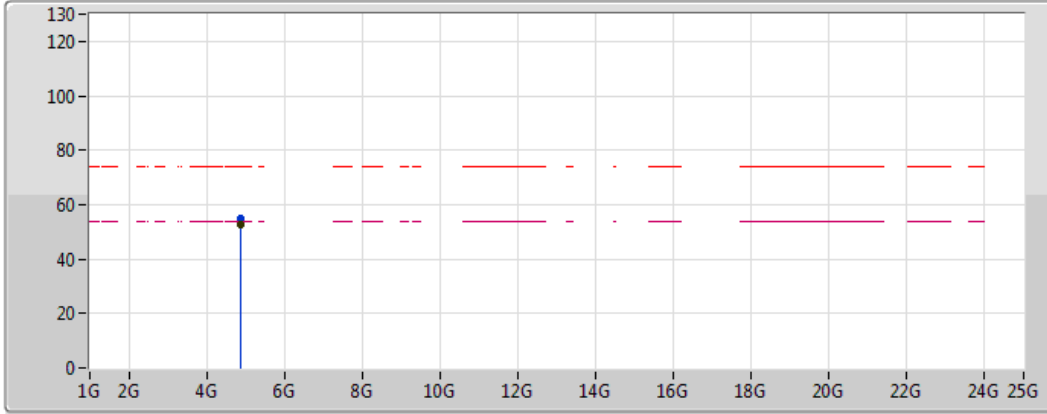


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.874G	53.37	54.00	-0.63	4.49	3	Vertical	165	2.92	-
PK	4.87388G	55.30	74.00	-18.70	4.49	3	Vertical	165	2.92	-

### 802.11b\_Nss1,(1Mbps)\_1TX

### 2437MHz\_TX

03/05/2018

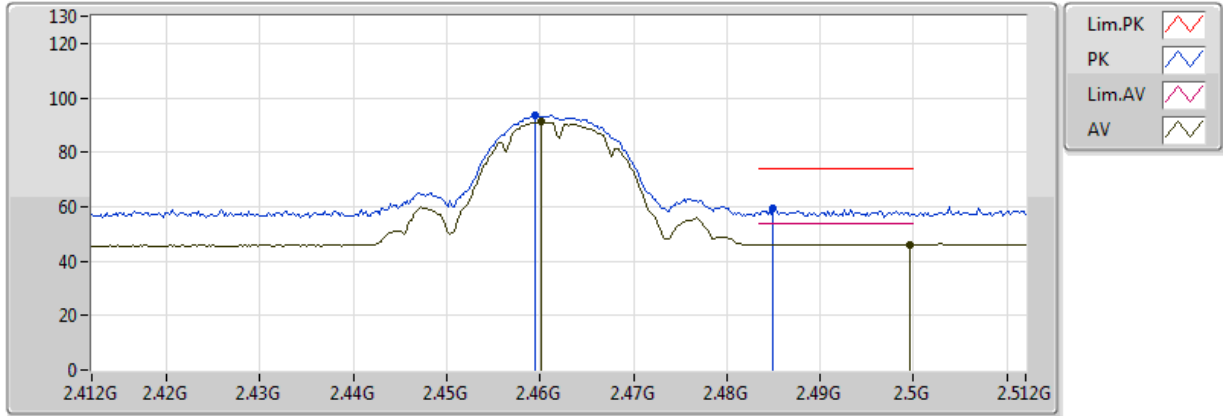


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87394G	52.40	54.00	-1.60	4.49	3	Horizontal	194	2.40	-
PK	4.87406G	54.76	74.00	-19.24	4.49	3	Horizontal	194	2.40	-

### 802.11b\_Nss1,(1Mbps)\_1TX

### 2462MHz\_TX

03/05/2018

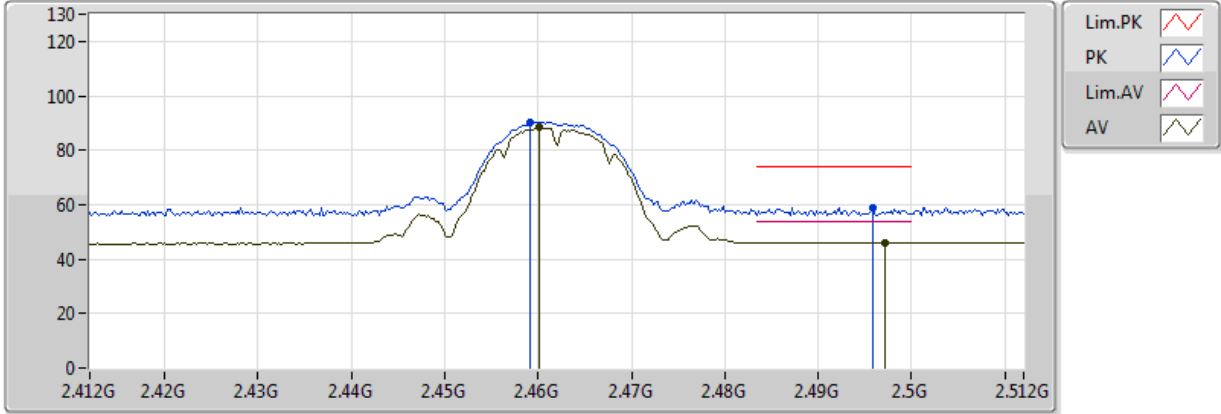


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4996G	46.11	54.00	-7.89	34.07	3	Vertical	164	1.04	-
AV	2.4602G	91.35	Inf	-Inf	34.06	3	Vertical	164	1.04	-
PK	2.485G	59.34	74.00	-14.66	34.07	3	Vertical	164	1.04	-
PK	2.4594G	93.52	Inf	-Inf	34.06	3	Vertical	164	1.04	-

### 802.11b\_Nss1,(1Mbps)\_1TX

### 2462MHz\_TX

03/05/2018

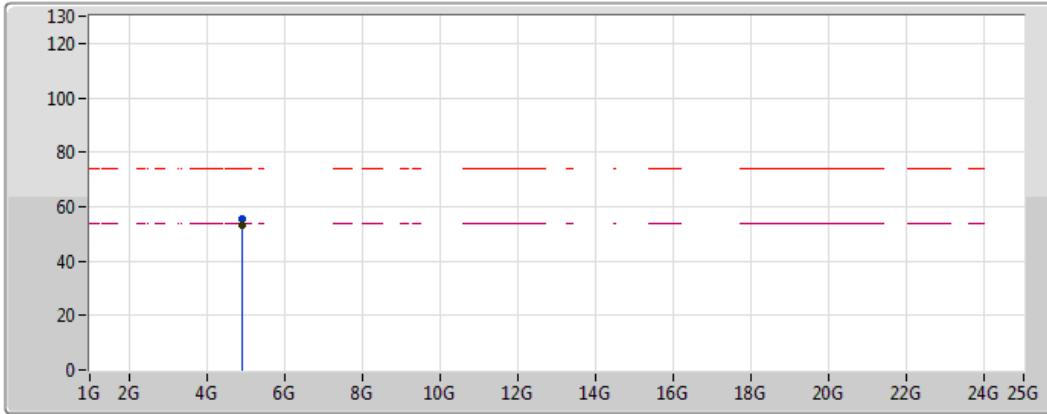






Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4972G	46.13	54.00	-7.87	34.07	3	Horizontal	192	2.16	-
AV	2.4602G	88.33	Inf	-Inf	34.06	3	Horizontal	192	2.16	-
PK	2.4958G	58.79	74.00	-15.21	34.07	3	Horizontal	192	2.16	-
PK	2.4592G	90.43	Inf	-Inf	34.06	3	Horizontal	192	2.16	-

### 802.11b\_Nss1,(1Mbps)\_1TX

### 2462MHz\_TX

03/05/2018



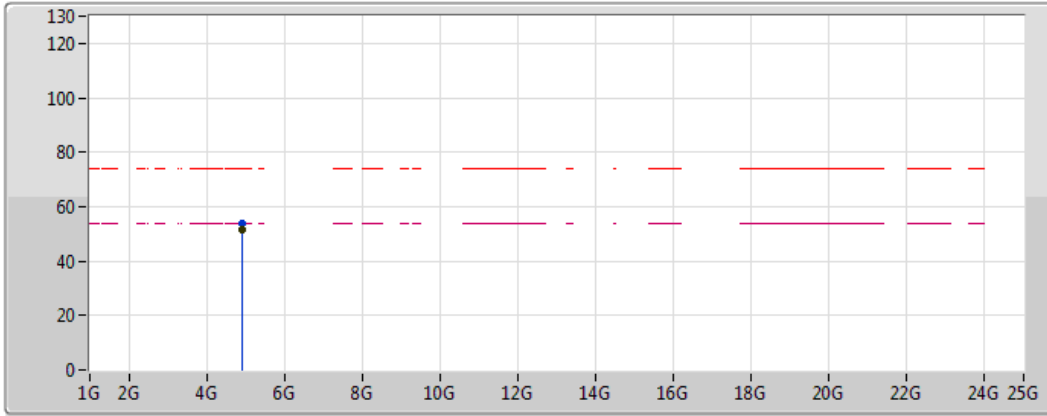
Lim.PK	
PK	
Lim.AV	
AV	

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92394G	53.43	54.00	-0.57	4.68	3	Vertical	177	2.79	-
PK	4.92388G	55.65	74.00	-18.35	4.68	3	Vertical	177	2.79	-

### 802.11b\_Nss1,(1Mbps)\_1TX

### 2462MHz\_TX

03/05/2018

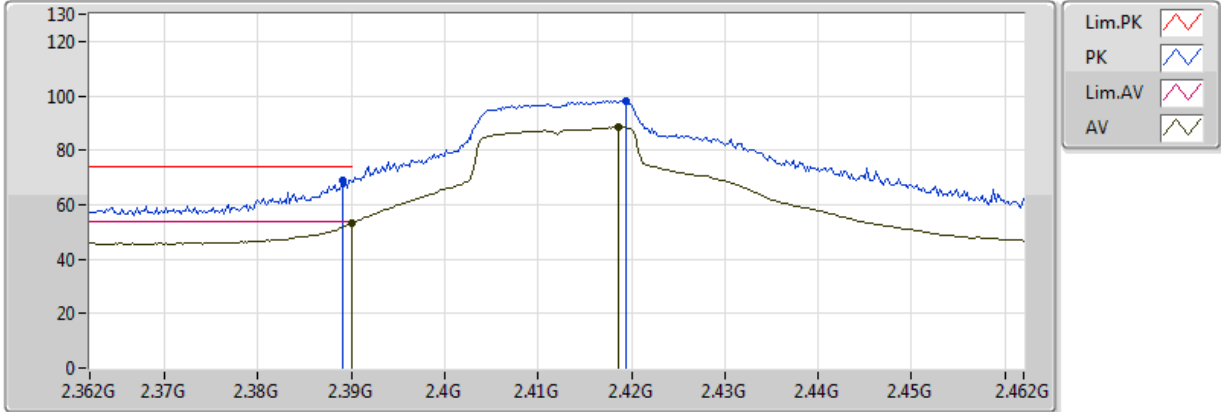


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92394G	51.38	54.00	-2.62	4.68	3	Horizontal	133	1.09	-
PK	4.92388G	53.89	74.00	-20.11	4.68	3	Horizontal	133	1.09	-

### 802.11g\_Nss1,(6Mbps)\_1TX

### 2412MHz\_TX

03/05/2018



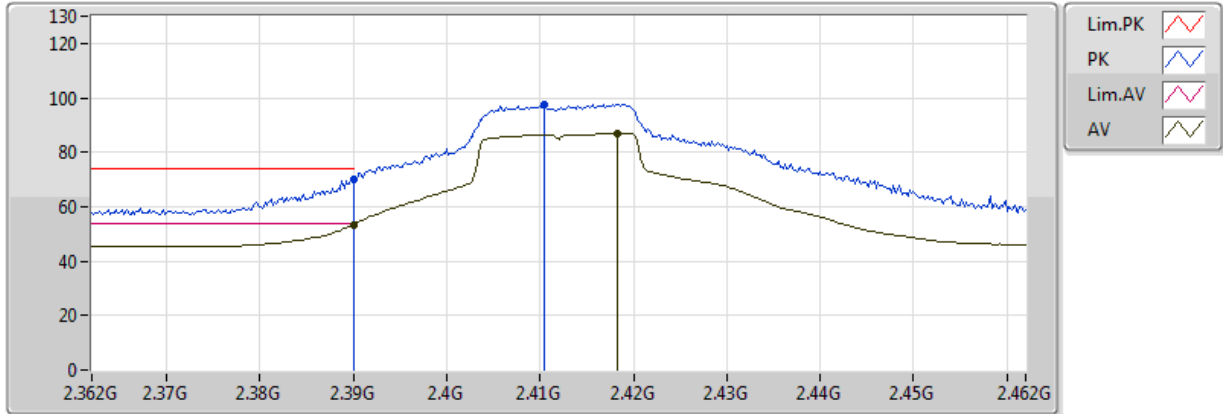
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.08	54.00	-0.92	34.05	3	Vertical	165	1.09	-
AV	2.4186G	88.47	Inf	-Inf	34.05	3	Vertical	165	1.09	-
PK	2.389G	69.06	74.00	-4.94	34.05	3	Vertical	165	1.09	-
PK	2.4194G	98.27	Inf	-Inf	34.05	3	Vertical	165	1.09	-



### 802.11g\_Nss1,(6Mbps)\_1TX

### 2412MHz\_TX

03/05/2018



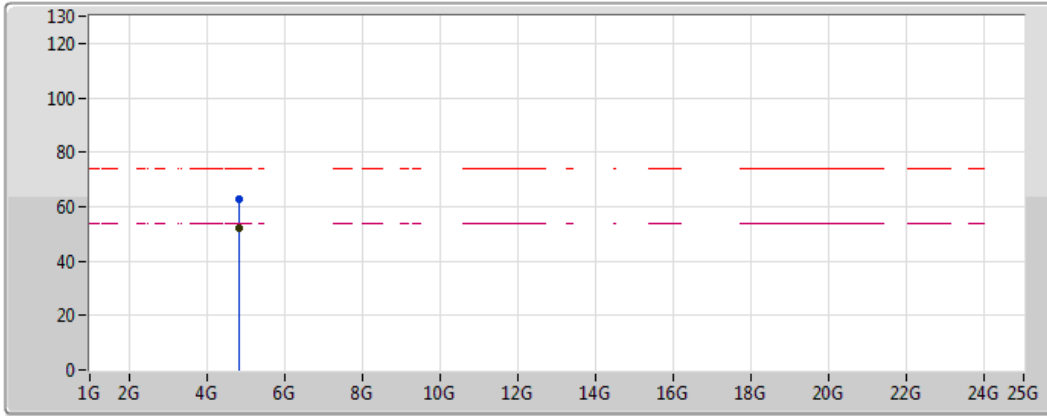
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.50	54.00	-0.50	34.05	3	Horizontal	112	1.06	-
AV	2.4182G	87.10	Inf	-Inf	34.05	3	Horizontal	112	1.06	-
PK	2.389998G	69.77	74.00	-4.23	34.05	3	Horizontal	112	1.06	-
PK	2.4104G	97.50	Inf	-Inf	34.05	3	Horizontal	112	1.06	-



### 802.11g\_Nss1,(6Mbps)\_1TX

### 2412MHz\_TX

03/05/2018



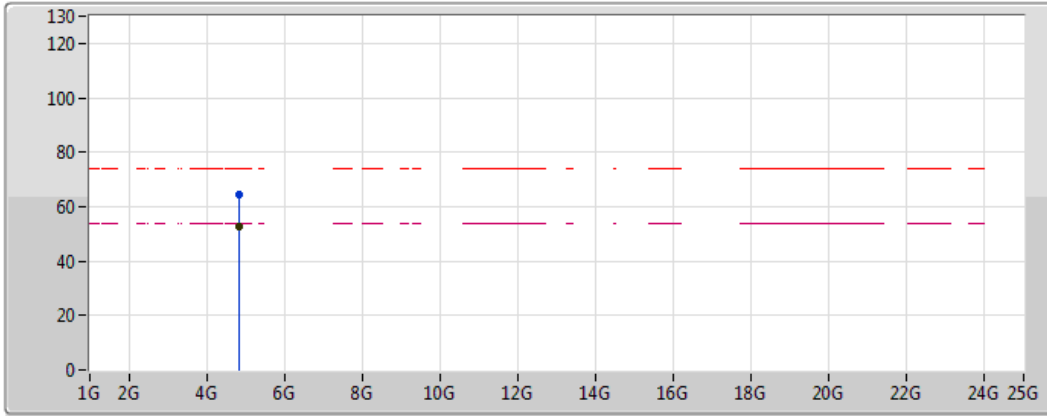
Lim.PK	
PK	
Lim.AV	
AV	

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.825G	52.19	54.00	-1.81	4.31	3	Vertical	175	2.64	-
PK	4.8282G	62.91	74.00	-11.09	4.32	3	Vertical	175	2.64	-

### 802.11g\_Nss1,(6Mbps)\_1TX

### 2412MHz\_TX

03/05/2018

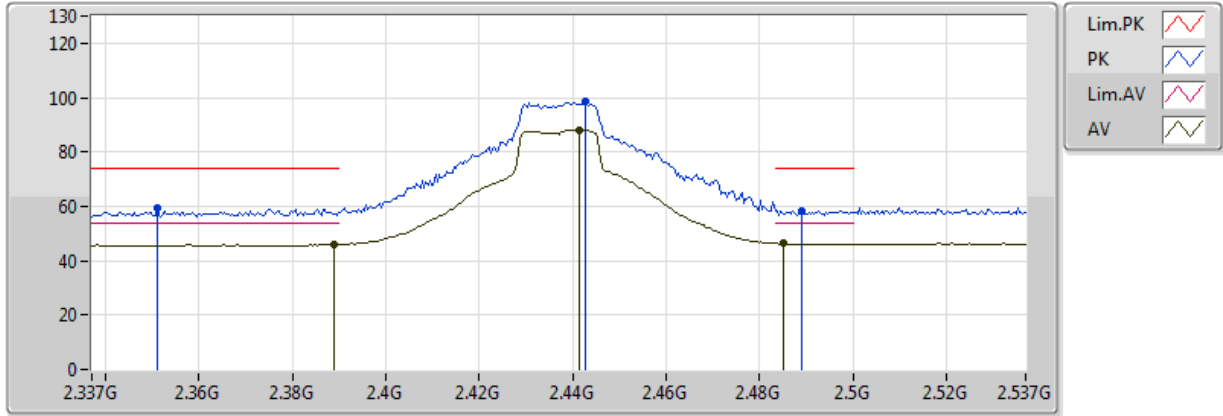


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8248G	52.84	54.00	-1.16	4.31	3	Horizontal	189	2.60	-
PK	4.8234G	64.55	74.00	-9.45	4.30	3	Horizontal	189	2.60	-

### 802.11g\_Nss1,(6Mbps)\_1TX

### 2437MHz\_TX

03/05/2018

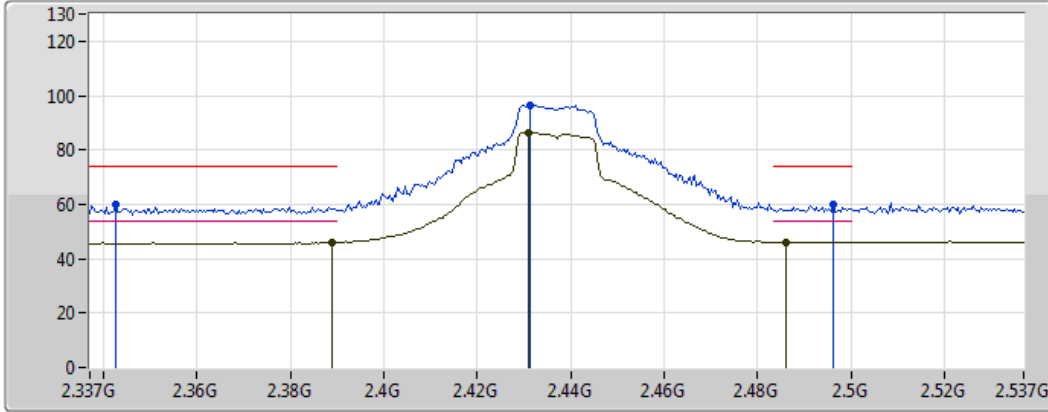






Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389G	45.93	54.00	-8.07	34.05	3	Vertical	164	1.22	-
AV	2.485G	46.27	54.00	-7.73	34.07	3	Vertical	164	1.22	-
AV	2.4414G	88.18	Inf	-Inf	34.06	3	Vertical	164	1.22	-
PK	2.351G	59.56	74.00	-14.44	34.05	3	Vertical	164	1.22	-
PK	2.489G	58.48	74.00	-15.52	34.07	3	Vertical	164	1.22	-
PK	2.4426G	98.36	Inf	-Inf	34.06	3	Vertical	164	1.22	-

### 802.11g\_Nss1,(6Mbps)\_1TX

### 2437MHz\_TX

03/05/2018



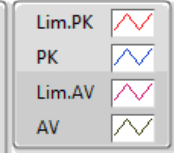
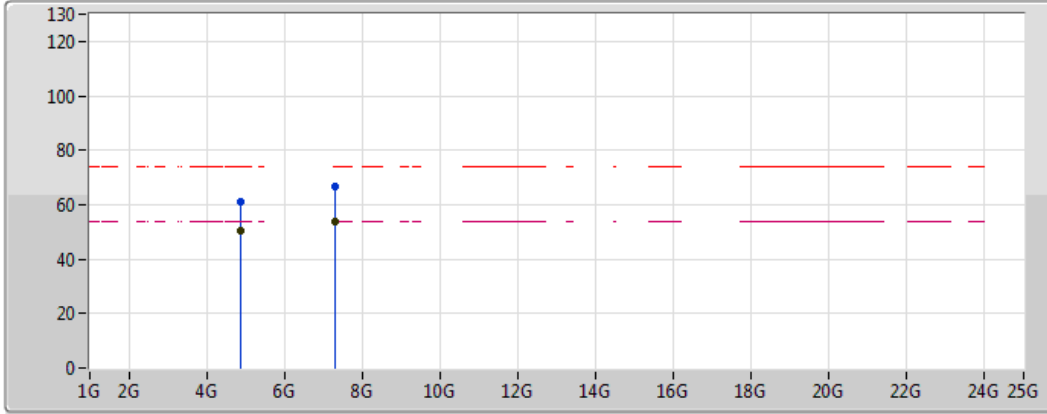
- Lim.PK 
- PK 
- Lim.AV 
- AV 

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389G	46.01	54.00	-7.99	34.05	3	Horizontal	191	1.47	-
AV	2.4862G	46.18	54.00	-7.82	34.07	3	Horizontal	191	1.47	-
AV	2.431G	86.51	Inf	-Inf	34.06	3	Horizontal	191	1.47	-
PK	2.3426G	59.98	74.00	-14.02	34.04	3	Horizontal	191	1.47	-
PK	2.4962G	59.81	74.00	-14.19	34.07	3	Horizontal	191	1.47	-
PK	2.4314G	96.50	Inf	-Inf	34.06	3	Horizontal	191	1.47	-

### 802.11g\_Nss1,(6Mbps)\_1TX

### 2437MHz\_TX

03/05/2018

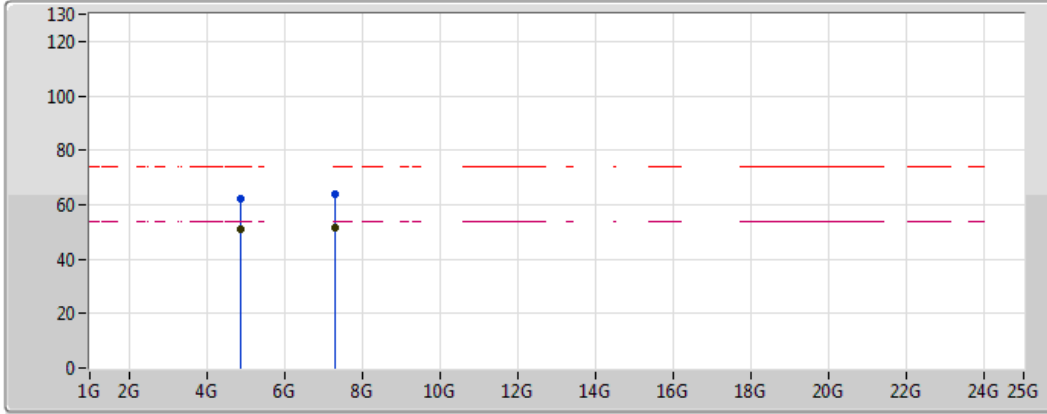






Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.875G	50.18	54.00	-3.82	4.49	3	Vertical	167	1.86	-
AV	7.3122G	53.69	54.00	-0.31	10.37	3	Vertical	174	2.08	-
PK	4.8716G	60.98	74.00	-13.02	4.48	3	Vertical	167	1.86	-
PK	7.3142G	66.41	74.00	-7.59	10.38	3	Vertical	174	2.08	-

### 802.11g\_Nss1,(6Mbps)\_1TX

### 2437MHz\_TX

03/05/2018



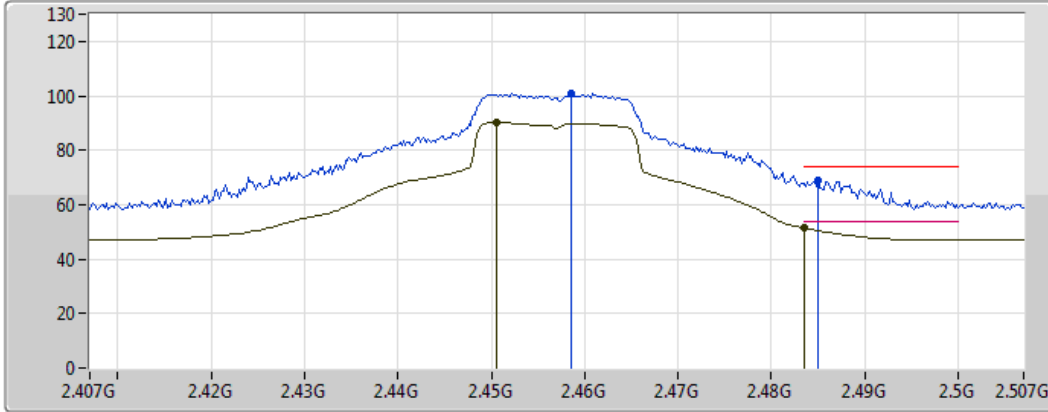
Lim.PK	
PK	
Lim.AV	
AV	

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8746G	50.85	54.00	-3.15	4.49	3	Horizontal	105	1.28	-
AV	7.3122G	51.42	54.00	-2.58	10.37	3	Horizontal	224	1.63	-
PK	4.8772G	61.92	74.00	-12.08	4.50	3	Horizontal	105	1.28	-
PK	7.3148G	63.75	74.00	-10.25	10.38	3	Horizontal	224	1.63	-





### 802.11g\_Nss1,(6Mbps)\_1TX

### 2457MHz\_TX

03/05/2018



Legend:

- Lim.PK 
- PK 
- Lim.AV 
- AV 

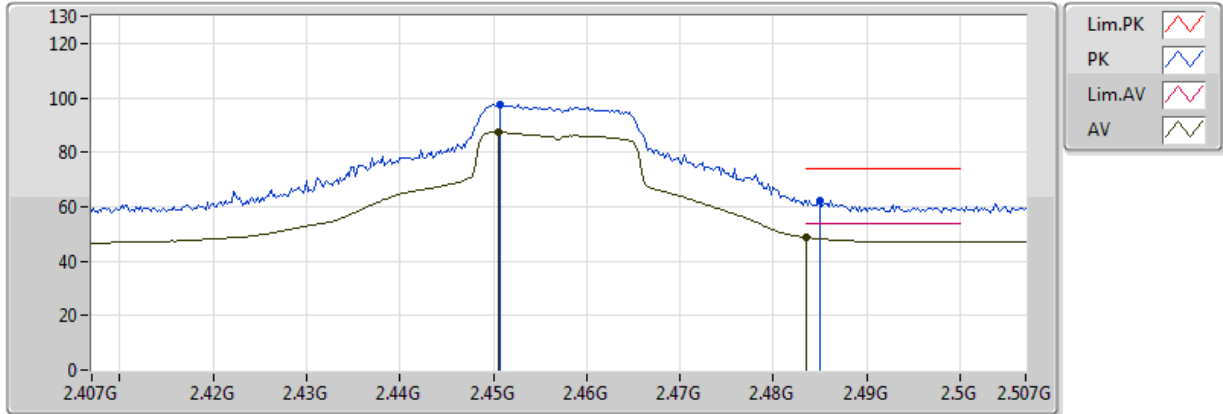
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4506G	90.13	Inf	-Inf	34.06	3	Vertical	186	2.09	-
AV	2.483502G	51.43	54.00	-2.57	34.07	3	Vertical	186	2.09	-
PK	2.4586G	100.91	Inf	-Inf	34.06	3	Vertical	186	2.09	-
PK	2.485G	69.03	74.00	-4.97	34.07	3	Vertical	186	2.09	-



### 802.11g\_Nss1,(6Mbps)\_1TX

### 2457MHz\_TX

03/05/2018

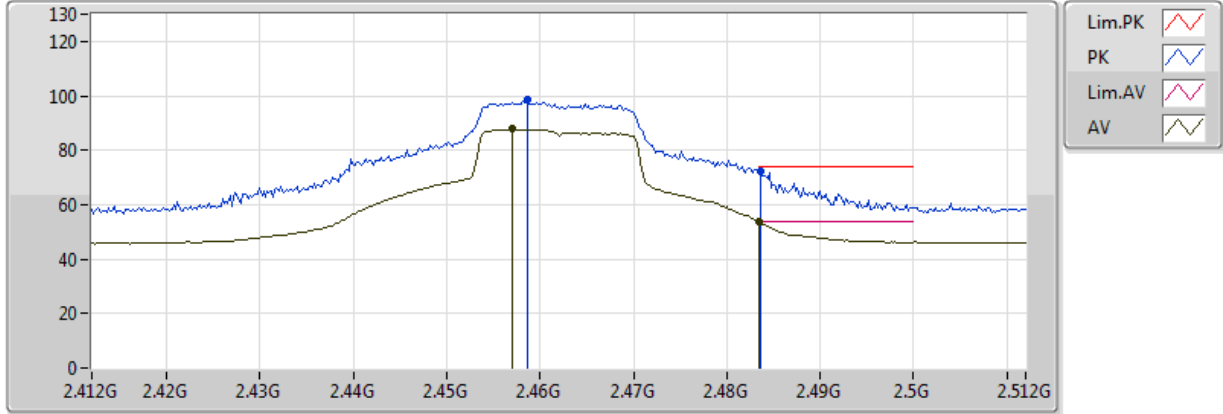


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4506G	87.36	Inf	-Inf	34.06	3	Horizontal	138	1.46	-
AV	2.483502G	48.77	54.00	-5.23	34.07	3	Horizontal	138	1.46	-
PK	2.4508G	97.47	Inf	-Inf	34.06	3	Horizontal	138	1.46	-
PK	2.485G	62.45	74.00	-11.55	34.07	3	Horizontal	138	1.46	-

### 802.11g\_Nss1,(6Mbps)\_1TX

### 2462MHz\_TX

03/05/2018

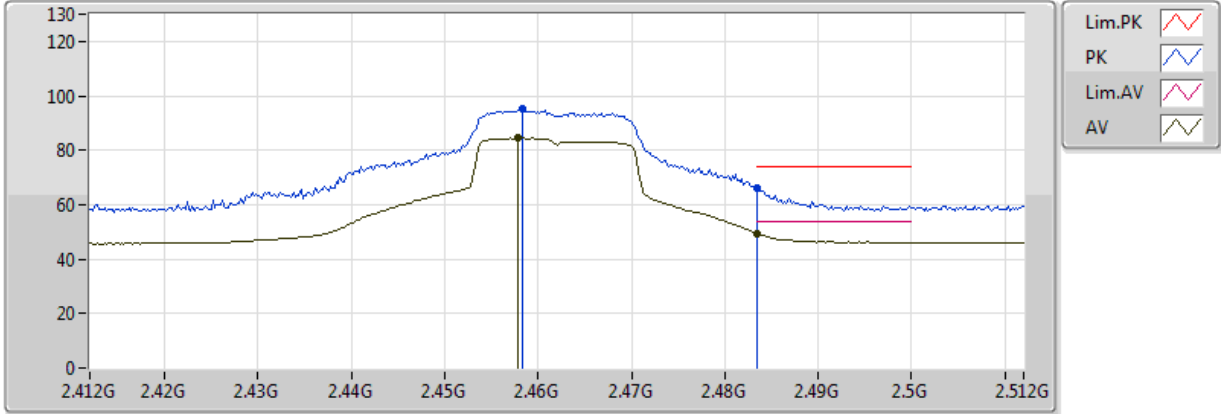


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.483502G	53.64	54.00	-0.36	34.07	3	Vertical	164	1.06	-
AV	2.457G	87.82	Inf	-Inf	34.06	3	Vertical	164	1.06	-
PK	2.4836G	72.37	74.00	-1.63	34.07	3	Vertical	164	1.06	-
PK	2.4586G	98.52	Inf	-Inf	34.06	3	Vertical	164	1.06	-

### 802.11g\_Nss1,(6Mbps)\_1TX

### 2462MHz\_TX

03/05/2018

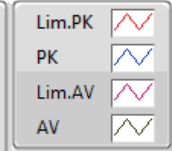
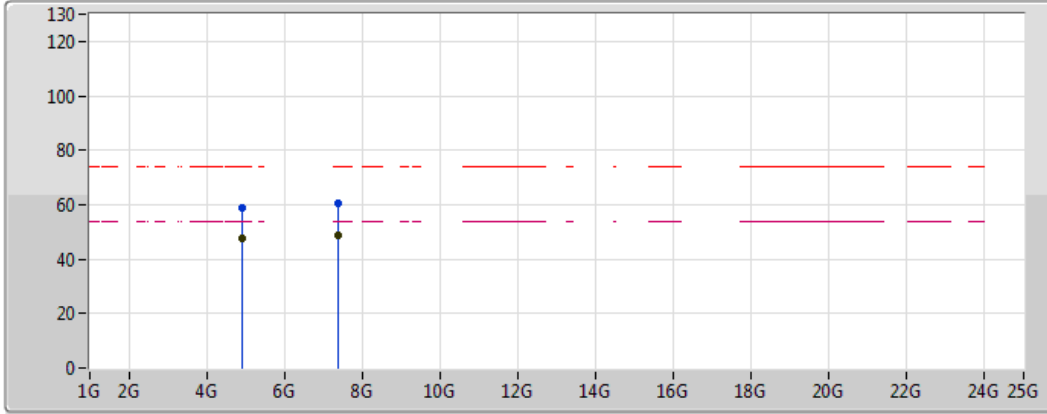


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.483502G	49.46	54.00	-4.54	34.07	3	Horizontal	166	1.24	-
AV	2.4578G	84.38	Inf	-Inf	34.06	3	Horizontal	166	1.24	-
PK	2.483502G	65.85	74.00	-8.15	34.07	3	Horizontal	166	1.24	-
PK	2.4584G	95.01	Inf	-Inf	34.06	3	Horizontal	166	1.24	-

### 802.11g\_Nss1,(6Mbps)\_1TX

### 2462MHz\_TX

03/05/2018

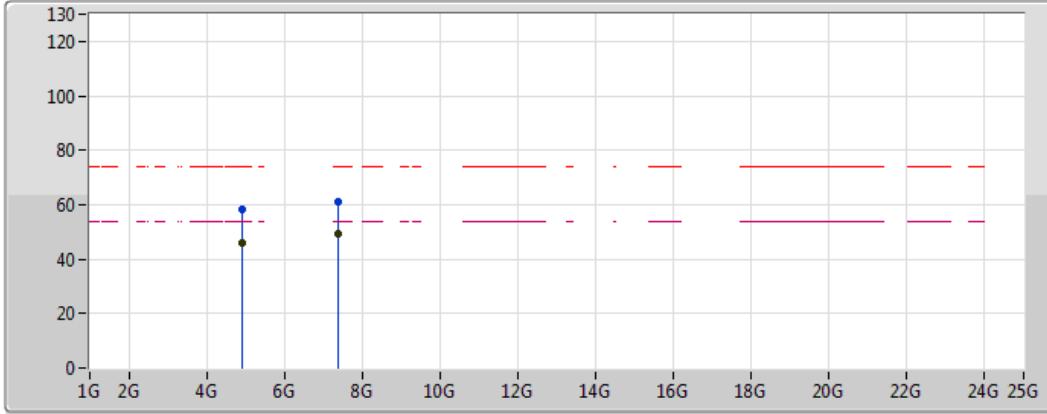






Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9236G	47.36	54.00	-6.64	4.68	3	Vertical	218	2.49	-
AV	7.3828G	48.97	54.00	-5.03	10.51	3	Vertical	179	1.07	-
PK	4.924G	58.79	74.00	-15.21	4.68	3	Vertical	218	2.49	-
PK	7.3836G	60.58	74.00	-13.42	10.51	3	Vertical	179	1.07	-

### 802.11g\_Nss1,(6Mbps)\_1TX

### 2462MHz\_TX

03/05/2018



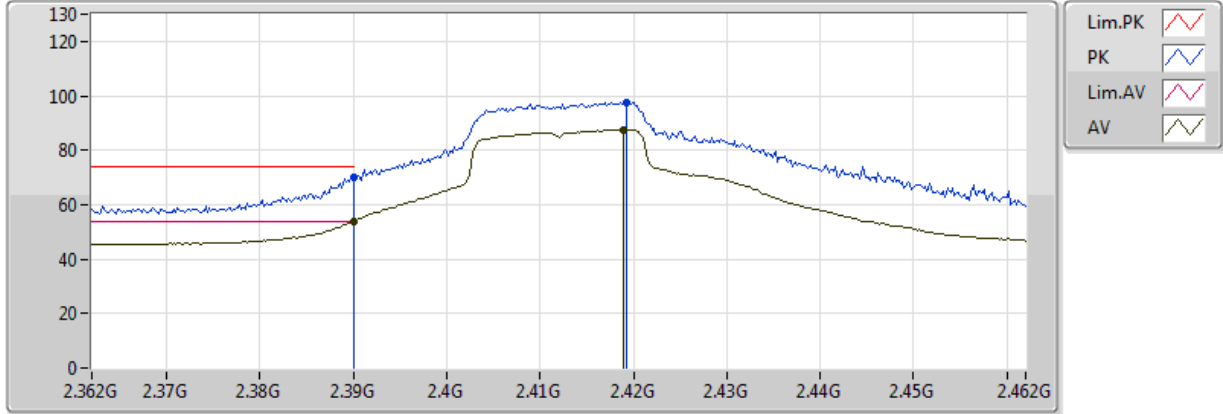
Lim.PK	
PK	
Lim.AV	
AV	

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9252G	46.10	54.00	-7.90	4.68	3	Horizontal	131	1.19	-
AV	7.3842G	49.22	54.00	-4.78	10.51	3	Horizontal	144	2.25	-
PK	4.9234G	58.38	74.00	-15.62	4.68	3	Horizontal	131	1.19	-
PK	7.378G	60.85	74.00	-13.15	10.50	3	Horizontal	144	2.25	-

### 802.11n HT20\_Nss1,(MCS0)\_1TX

### 2412MHz\_TX

03/05/2018

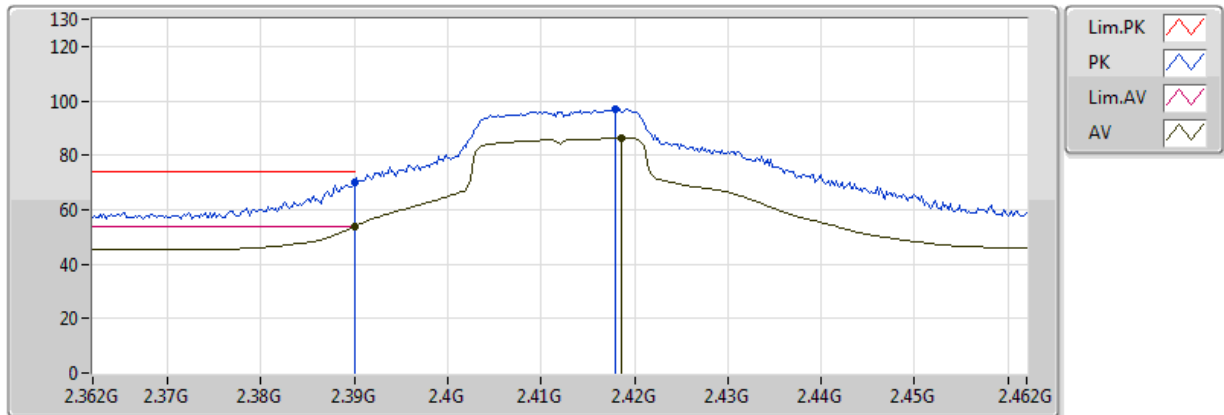


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.88	54.00	-0.12	34.05	3	Vertical	160	1.10	-
AV	2.419G	87.59	Inf	-Inf	34.05	3	Vertical	160	1.10	-
PK	2.389998G	69.96	74.00	-4.04	34.05	3	Vertical	160	1.10	-
PK	2.4192G	97.56	Inf	-Inf	34.05	3	Vertical	160	1.10	-

### 802.11n HT20\_Nss1,(MCS0)\_1TX

### 2412MHz\_TX

03/05/2018

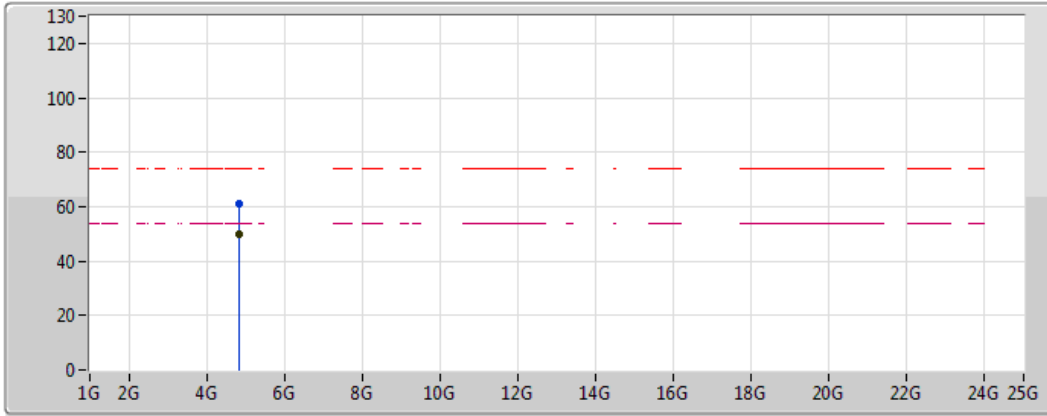






Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.89	54.00	-0.11	34.05	3	Horizontal	107	1.09	-
AV	2.4186G	86.42	Inf	-Inf	34.05	3	Horizontal	107	1.09	-
PK	2.389998G	70.02	74.00	-3.98	34.05	3	Horizontal	107	1.09	-
PK	2.418G	97.01	Inf	-Inf	34.05	3	Horizontal	107	1.09	-

### 802.11n HT20\_Nss1,(MCS0)\_1TX

### 2412MHz\_TX

03/05/2018



Lim.PK	
PK	
Lim.AV	
AV	

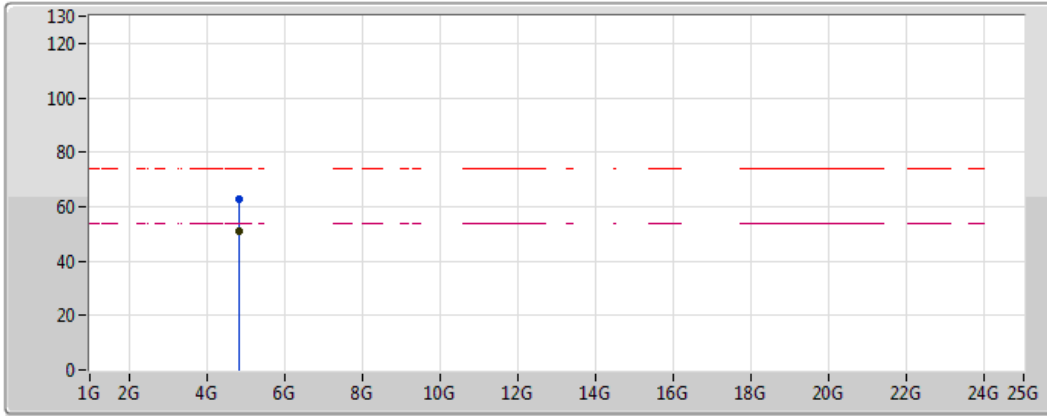
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8236G	49.94	54.00	-4.06	4.30	3	Vertical	178	3.15	-
PK	4.8232G	60.99	74.00	-13.01	4.30	3	Vertical	178	3.15	-



### 802.11n HT20\_Nss1,(MCS0)\_1TX

### 2412MHz\_TX

03/05/2018

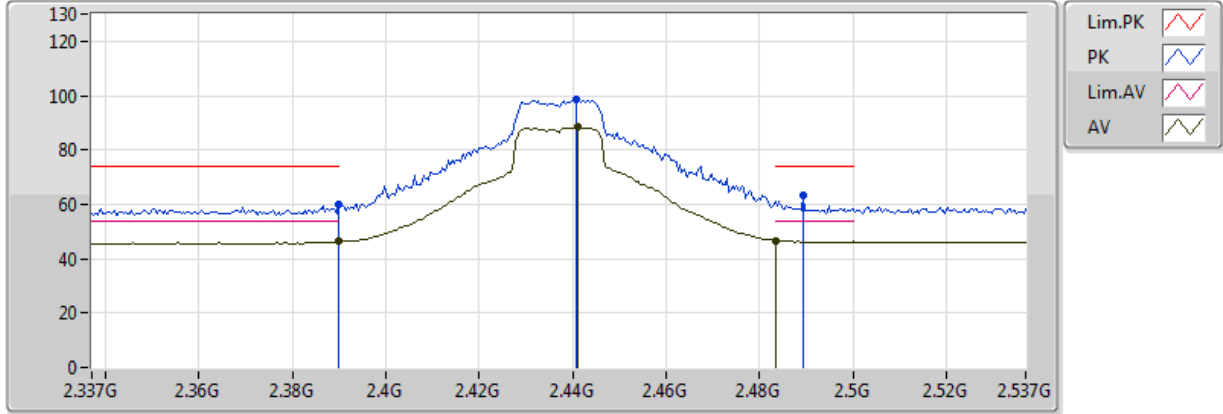


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8252G	50.88	54.00	-3.12	4.31	3	Horizontal	189	2.62	-
PK	4.8212G	62.76	74.00	-11.24	4.29	3	Horizontal	189	2.62	-

### 802.11n HT20\_Nss1,(MCS0)\_1TX

### 2437MHz\_TX

03/05/2018

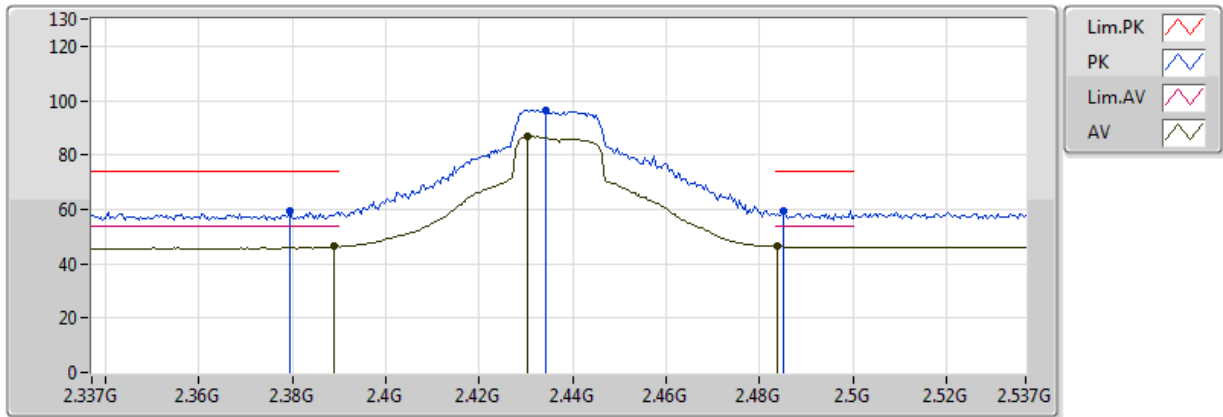


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	46.29	54.00	-7.71	34.05	3	Vertical	163	1.21	-
AV	2.483502G	46.74	54.00	-7.26	34.07	3	Vertical	163	1.21	-
AV	2.441G	88.38	Inf	-Inf	34.06	3	Vertical	163	1.21	-
PK	2.3898G	59.82	74.00	-14.18	34.05	3	Vertical	163	1.21	-
PK	2.4894G	63.58	74.00	-10.42	34.07	3	Vertical	163	1.21	-
PK	2.4406G	98.40	Inf	-Inf	34.06	3	Vertical	163	1.21	-

### 802.11n HT20\_Nss1,(MCS0)\_1TX

### 2437MHz\_TX

03/05/2018

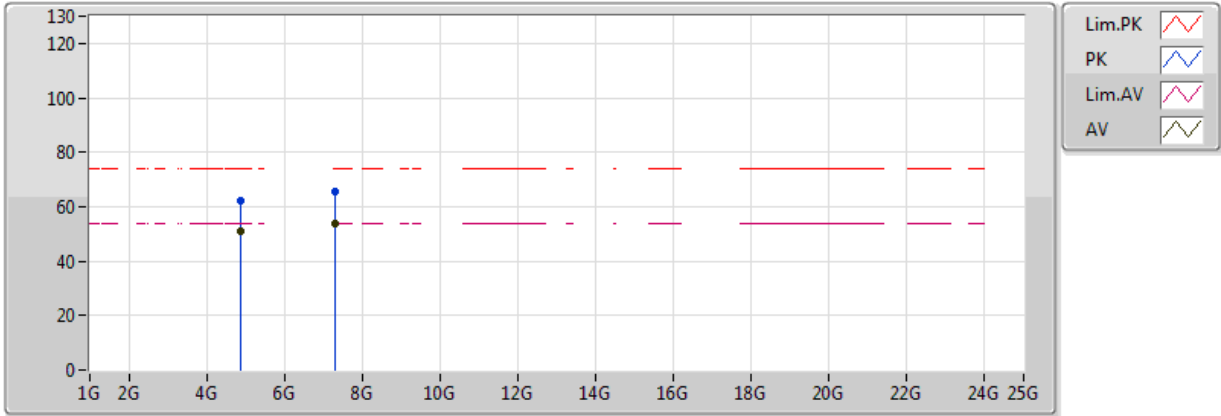


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389G	46.34	54.00	-7.66	34.05	3	Horizontal	191	1.48	-
AV	2.4838G	46.34	54.00	-7.66	34.07	3	Horizontal	191	1.48	-
AV	2.4302G	86.73	Inf	-Inf	34.06	3	Horizontal	191	1.48	-
PK	2.3794G	59.60	74.00	-14.40	34.05	3	Horizontal	191	1.48	-
PK	2.485G	59.39	74.00	-14.61	34.07	3	Horizontal	191	1.48	-
PK	2.4342G	96.54	Inf	-Inf	34.06	3	Horizontal	191	1.48	-

### 802.11n HT20\_Nss1,(MCS0)\_1TX

### 2437MHz\_TX

03/05/2018

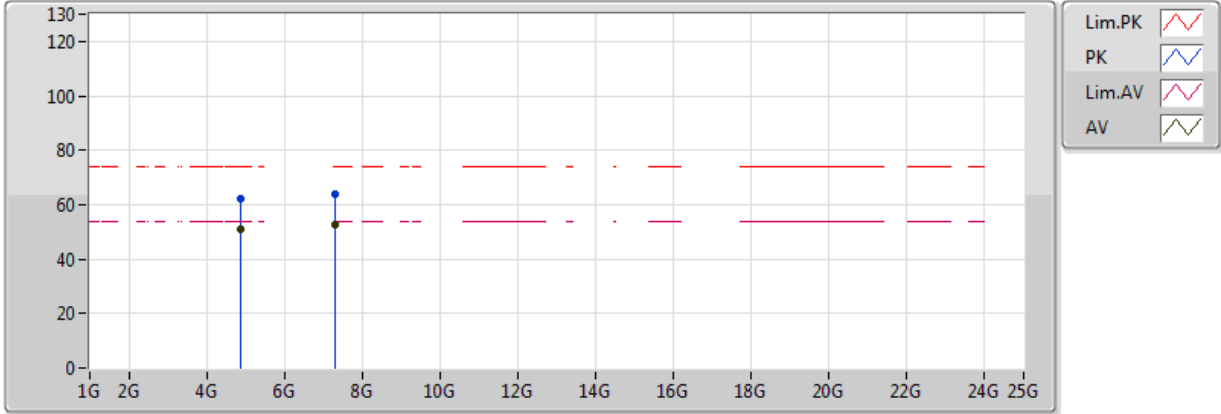


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.876G	50.85	54.00	-3.15	4.50	3	Vertical	162	1.06	-
AV	7.3102G	53.58	54.00	-0.42	10.37	3	Vertical	175	2.92	-
PK	4.8788G	62.01	74.00	-11.99	4.51	3	Vertical	162	1.06	-
PK	7.3018G	65.30	74.00	-8.70	10.35	3	Vertical	175	2.92	-

### 802.11n HT20\_Nss1,(MCS0)\_1TX

### 2437MHz\_TX

03/05/2018

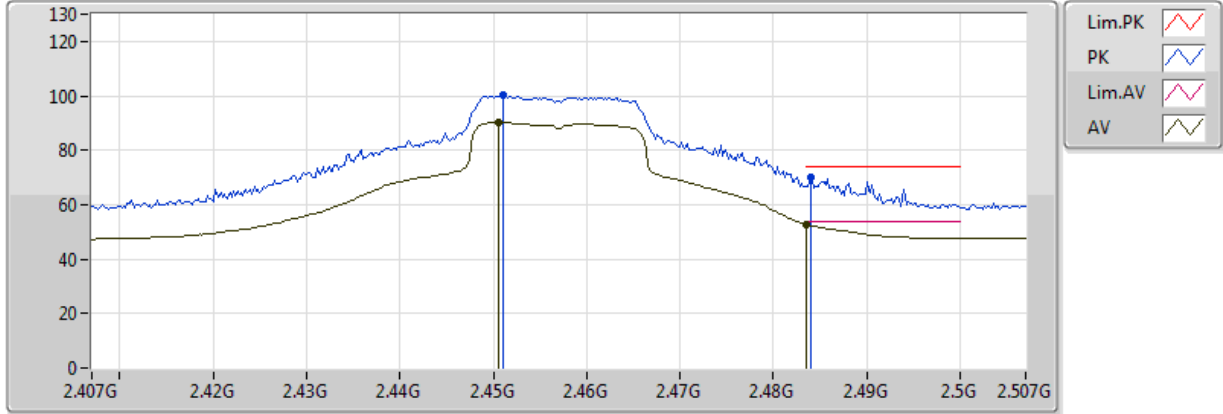


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.875G	50.94	54.00	-3.06	4.49	3	Horizontal	191	2.41	-
AV	7.3152G	52.73	54.00	-1.27	10.38	3	Horizontal	208	1.62	-
PK	4.8764G	62.44	74.00	-11.56	4.50	3	Horizontal	191	2.41	-
PK	7.312G	63.75	74.00	-10.25	10.37	3	Horizontal	208	1.62	-

### 802.11n HT20\_Nss1,(MCS0)\_1TX

### 2457MHz\_TX

03/05/2018

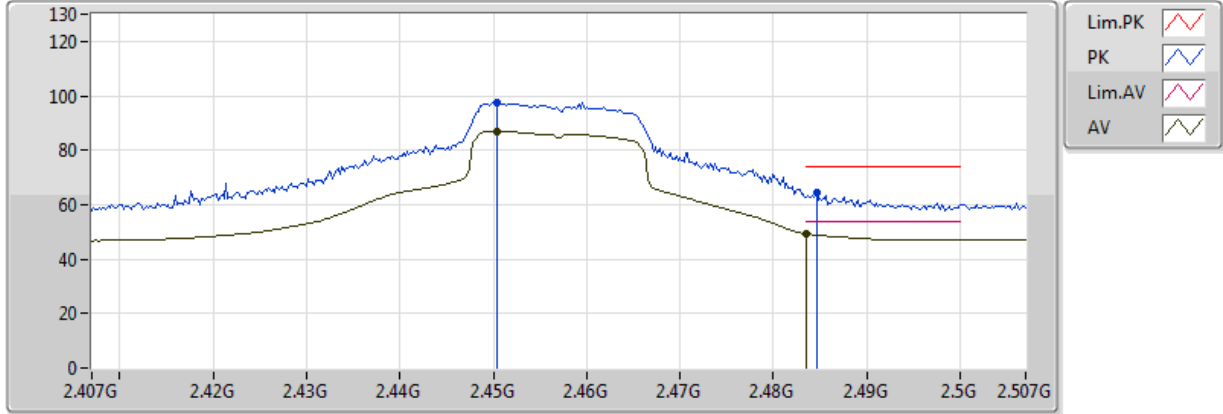


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4506G	90.14	Inf	-Inf	34.06	3	Vertical	187	2.08	-
AV	2.483502G	52.69	54.00	-1.31	34.07	3	Vertical	187	2.08	-
PK	2.451G	100.04	Inf	-Inf	34.06	3	Vertical	187	2.08	-
PK	2.484G	69.81	74.00	-4.19	34.07	3	Vertical	187	2.08	-

### 802.11n HT20\_Nss1,(MCS0)\_1TX

### 2457MHz\_TX

03/05/2018

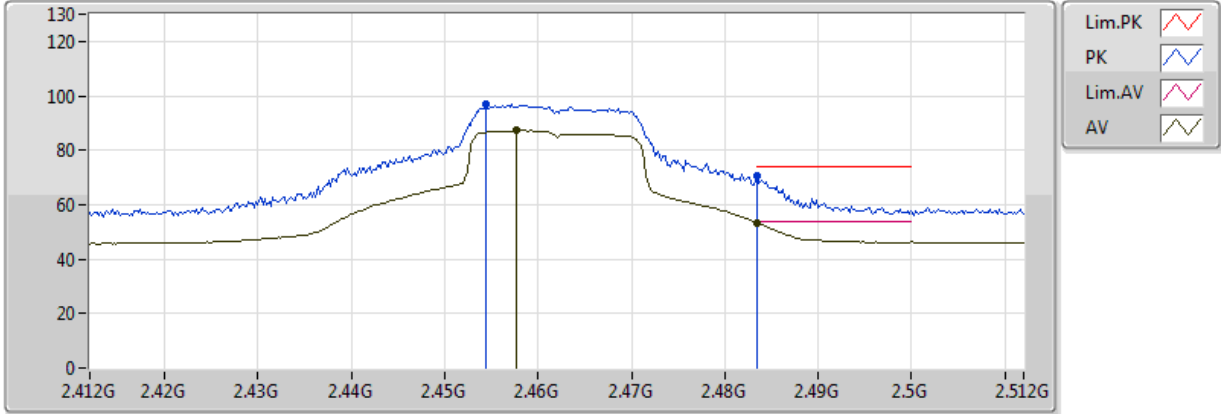


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4504G	87.08	Inf	-Inf	34.06	3	Horizontal	138	1.49	-
AV	2.483502G	49.26	54.00	-4.74	34.07	3	Horizontal	138	1.49	-
PK	2.4504G	97.78	Inf	-Inf	34.06	3	Horizontal	138	1.49	-
PK	2.4846G	64.28	74.00	-9.72	34.07	3	Horizontal	138	1.49	-

### 802.11n HT20\_Nss1,(MCS0)\_1TX

### 2462MHz\_TX

03/05/2018



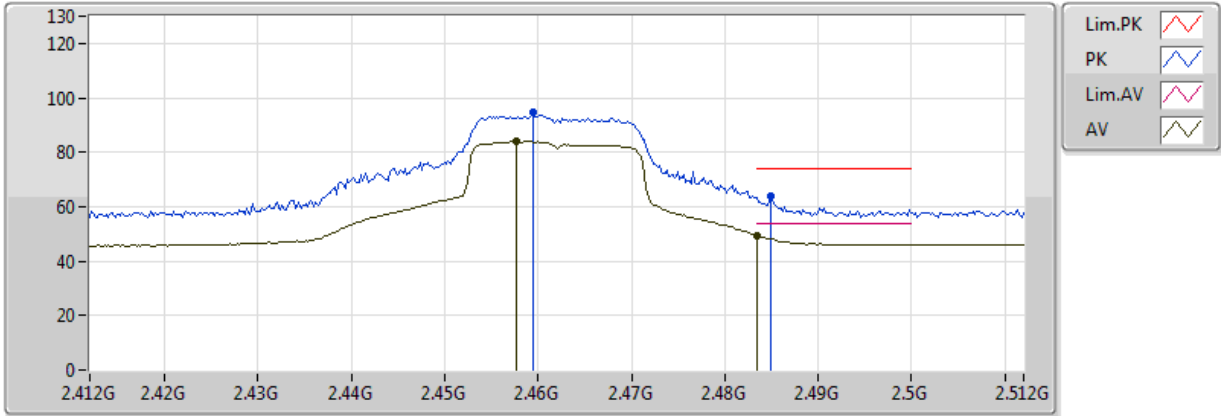
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.483502G	53.14	54.00	-0.86	34.07	3	Vertical	162	1.06	-
AV	2.4576G	87.25	Inf	-Inf	34.06	3	Vertical	162	1.06	-
PK	2.483502G	70.38	74.00	-3.62	34.07	3	Vertical	162	1.06	-
PK	2.4544G	96.96	Inf	-Inf	34.06	3	Vertical	162	1.06	-



### 802.11n HT20\_Nss1,(MCS0)\_1TX

### 2462MHz\_TX

03/05/2018

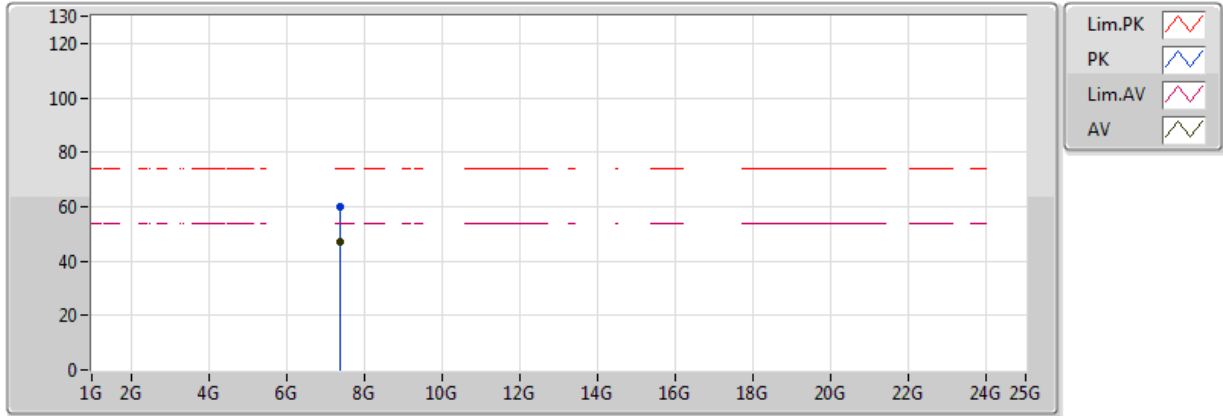


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.483502G	49.49	54.00	-4.51	34.07	3	Horizontal	165	1.24	-
AV	2.4576G	83.94	Inf	-Inf	34.06	3	Horizontal	165	1.24	-
PK	2.485G	63.88	74.00	-10.12	34.07	3	Horizontal	165	1.24	-
PK	2.4594G	94.72	Inf	-Inf	34.06	3	Horizontal	165	1.24	-

### 802.11n HT20\_Nss1,(MCS0)\_1TX

### 2462MHz\_TX

03/05/2018

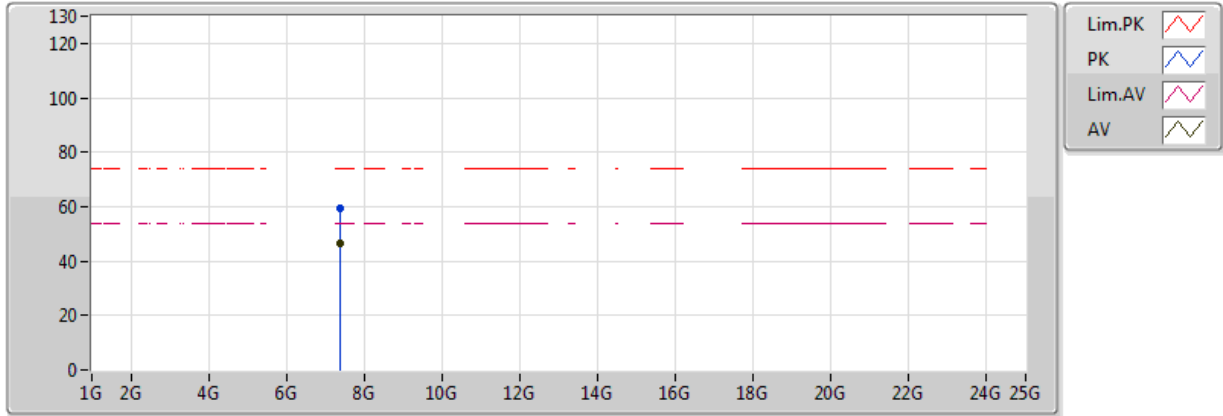


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	7.3856G	47.15	54.00	-6.85	10.51	3	Vertical	178	2.03	-
PK	7.381G	60.11	74.00	-13.89	10.50	3	Vertical	178	2.03	-

### 802.11n HT20\_Nss1,(MCS0)\_1TX

### 2462MHz\_TX

03/05/2018

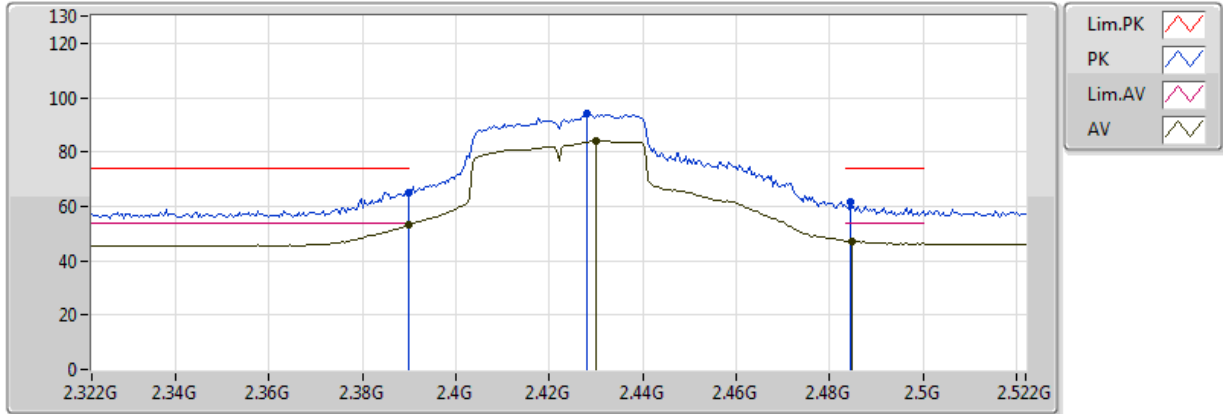


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	7.3868G	46.34	54.00	-7.66	10.51	3	Horizontal	146	1.23	-
PK	7.387G	59.37	74.00	-14.63	10.52	3	Horizontal	146	1.23	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2422MHz\_TX

03/05/2018

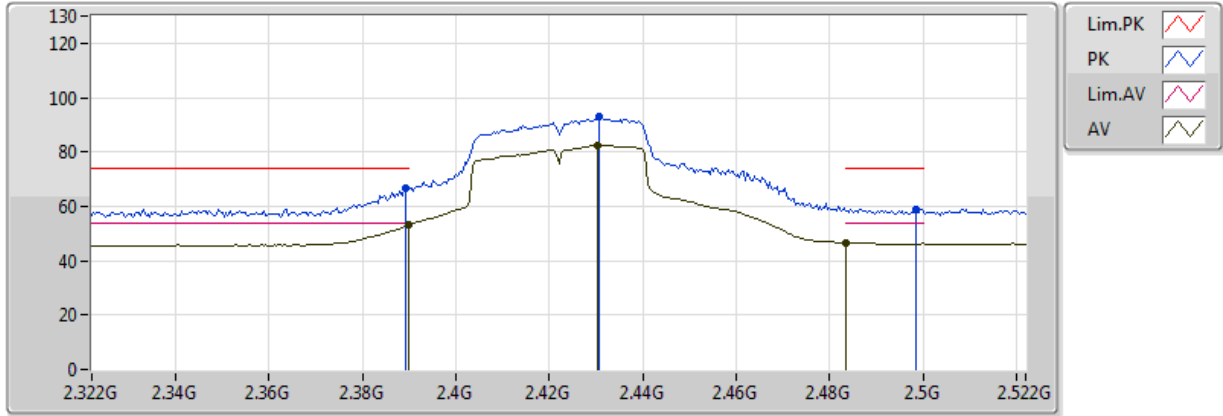


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.23	54.00	-0.77	34.05	3	Vertical	163	1.13	-
AV	2.4848G	47.28	54.00	-6.72	34.07	3	Vertical	163	1.13	-
AV	2.43G	84.11	Inf	-Inf	34.06	3	Vertical	163	1.13	-
PK	2.389998G	65.22	74.00	-8.78	34.05	3	Vertical	163	1.13	-
PK	2.4844G	61.69	74.00	-12.31	34.07	3	Vertical	163	1.13	-
PK	2.428G	93.87	Inf	-Inf	34.06	3	Vertical	163	1.13	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2422MHz\_TX

03/05/2018

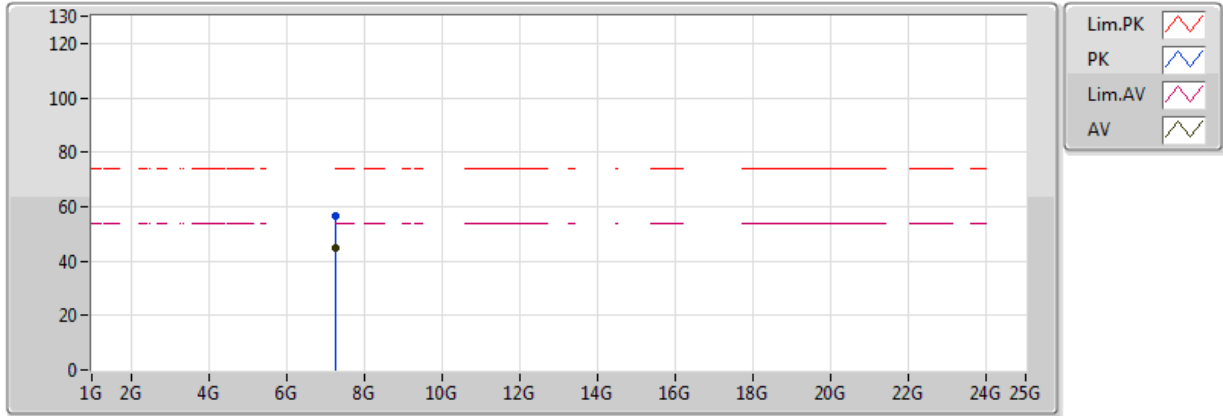


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.37	54.00	-0.63	34.05	3	Horizontal	191	1.48	-
AV	2.483502G	46.53	54.00	-7.47	34.07	3	Horizontal	191	1.48	-
AV	2.4304G	82.47	Inf	-Inf	34.06	3	Horizontal	191	1.48	-
PK	2.3892G	66.53	74.00	-7.47	34.05	3	Horizontal	191	1.48	-
PK	2.4984G	58.82	74.00	-15.18	34.07	3	Horizontal	191	1.48	-
PK	2.4308G	92.77	Inf	-Inf	34.06	3	Horizontal	191	1.48	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2422MHz\_TX

03/05/2018

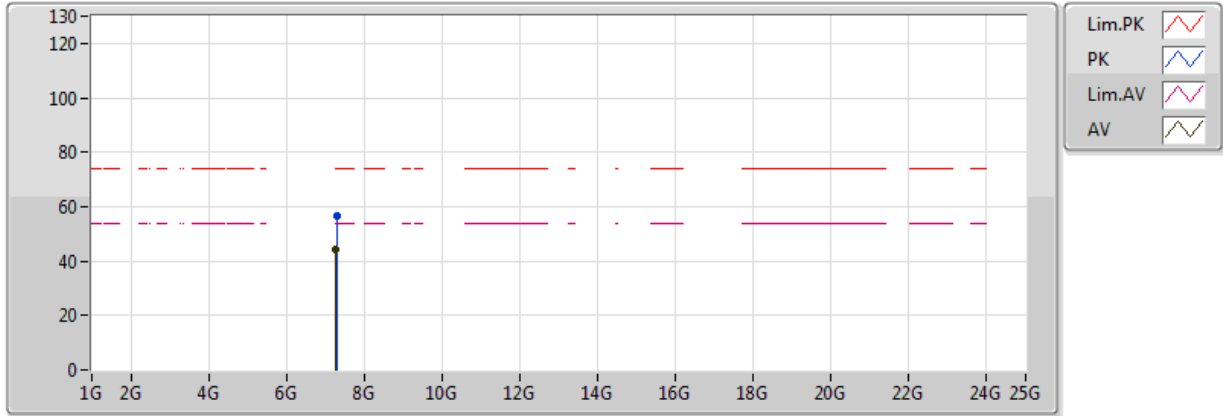


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	7.2806G	44.93	54.00	-9.07	10.31	3	Vertical	174	1.82	-
PK	7.2798G	56.68	74.00	-17.32	10.31	3	Vertical	174	1.82	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2422MHz\_TX

03/05/2018

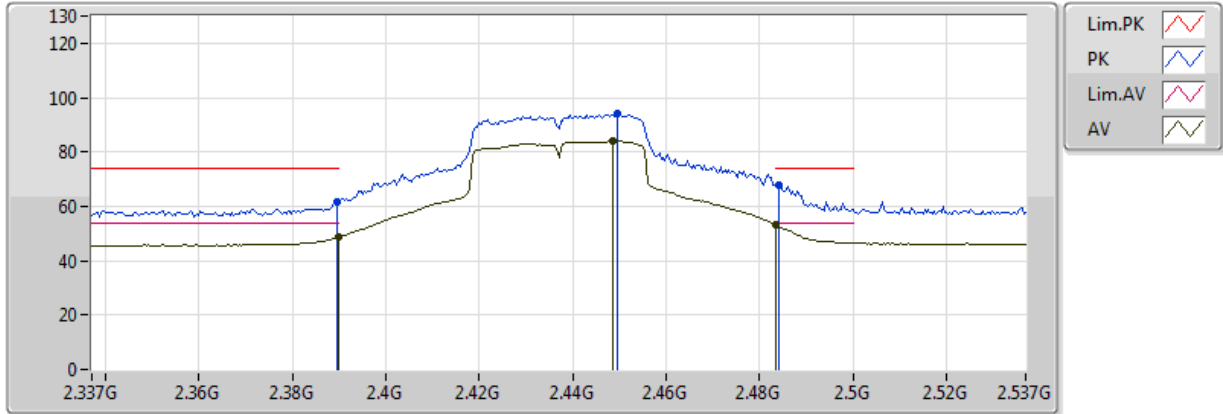


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	7.279G	44.25	54.00	-9.75	10.31	3	Horizontal	134	2.31	-
PK	7.3028G	56.68	74.00	-17.32	10.36	3	Horizontal	134	2.31	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2437MHz\_TX

03/05/2018



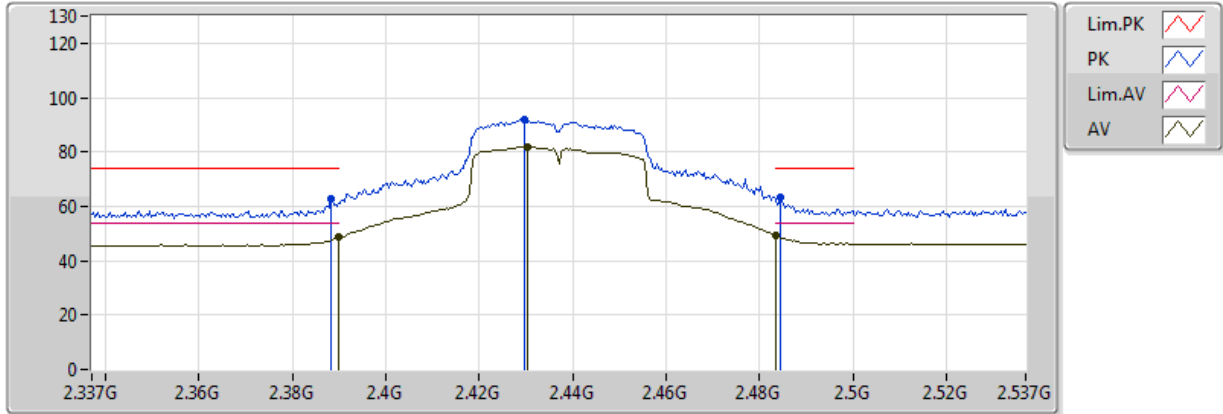
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	48.63	54.00	-5.37	34.05	3	Vertical	162	1.02	-
AV	2.483502G	53.17	54.00	-0.83	34.07	3	Vertical	162	1.02	-
AV	2.4486G	84.00	Inf	-Inf	34.06	3	Vertical	162	1.02	-
PK	2.3894G	61.87	74.00	-12.13	34.05	3	Vertical	162	1.02	-
PK	2.4842G	67.80	74.00	-6.20	34.07	3	Vertical	162	1.02	-
PK	2.4494G	94.04	Inf	-Inf	34.06	3	Vertical	162	1.02	-



### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2437MHz\_TX

03/05/2018

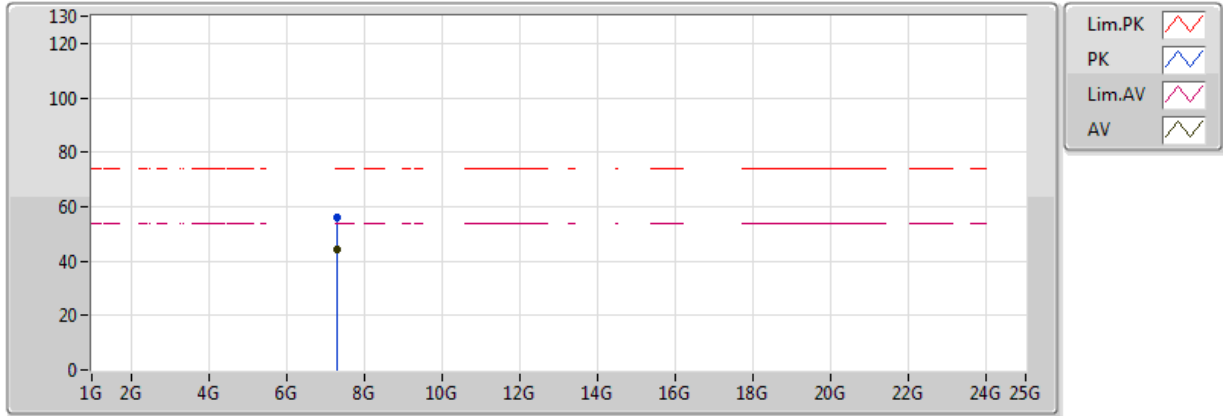


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	48.51	54.00	-5.49	34.05	3	Horizontal	192	1.05	-
AV	2.483502G	49.11	54.00	-4.89	34.07	3	Horizontal	192	1.05	-
AV	2.4302G	82.01	Inf	-Inf	34.06	3	Horizontal	192	1.05	-
PK	2.3882G	62.83	74.00	-11.17	34.05	3	Horizontal	192	1.05	-
PK	2.4846G	63.07	74.00	-10.93	34.07	3	Horizontal	192	1.05	-
PK	2.4298G	91.86	Inf	-Inf	34.06	3	Horizontal	192	1.05	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2437MHz\_TX

03/05/2018

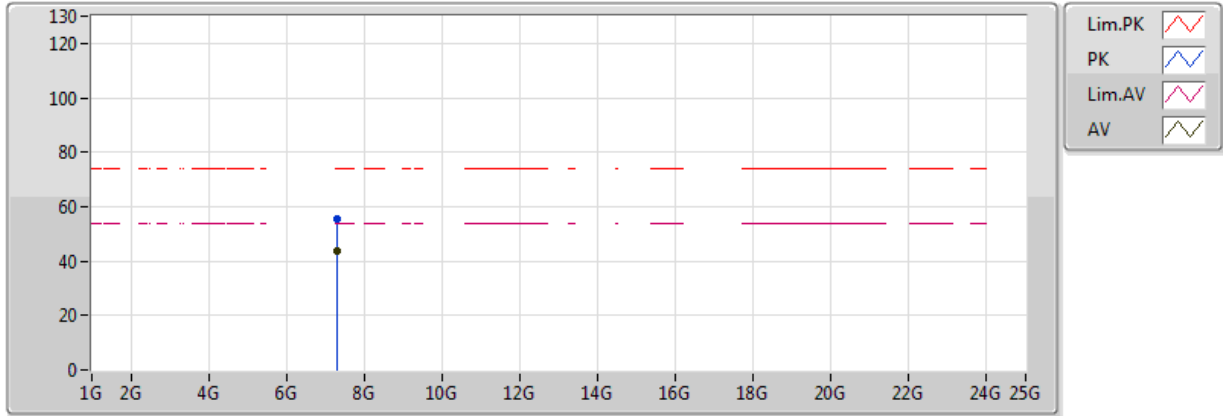


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	7.3186G	44.54	54.00	-9.46	10.39	3	Vertical	173	2.07	-
PK	7.3212G	56.22	74.00	-17.78	10.39	3	Vertical	173	2.07	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2437MHz\_TX

03/05/2018

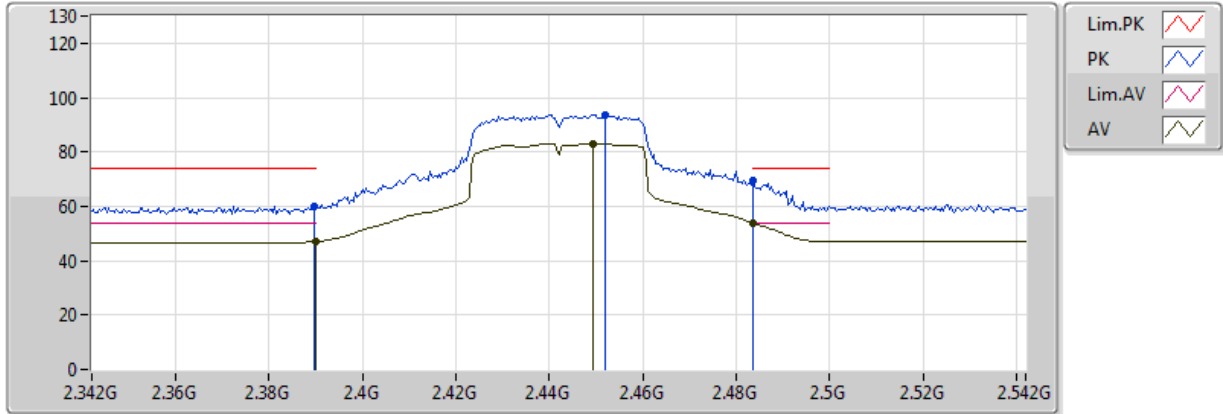


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	7.3168G	43.77	54.00	-10.23	10.38	3	Horizontal	134	2.21	-
PK	7.307G	55.42	74.00	-18.58	10.36	3	Horizontal	134	2.21	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2442MHz\_TX

03/05/2018

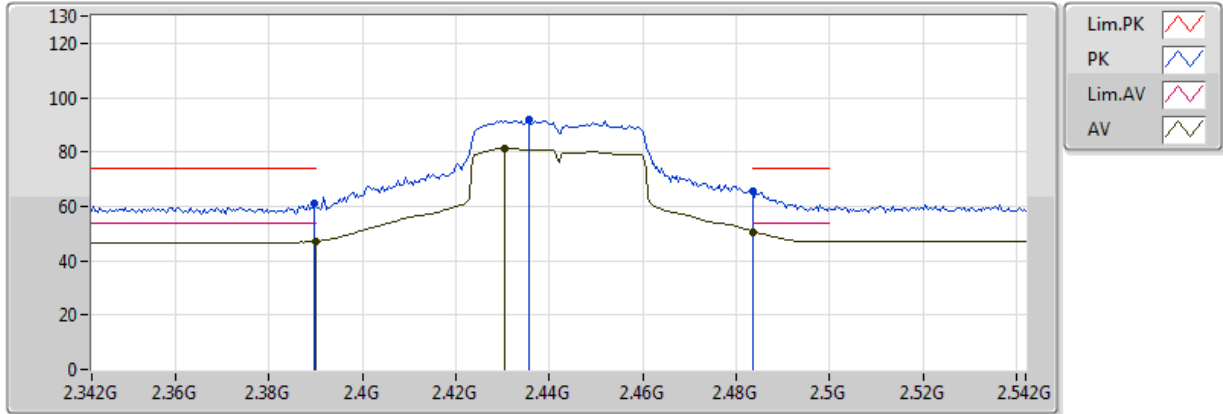


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	47.01	54.00	-6.99	34.05	3	Vertical	187	2.07	-
AV	2.4492G	83.12	Inf	-Inf	34.06	3	Vertical	187	2.07	-
AV	2.483502G	53.85	54.00	-0.15	34.07	3	Vertical	187	2.07	-
PK	2.3896G	60.05	74.00	-13.95	34.05	3	Vertical	187	2.07	-
PK	2.452G	93.69	Inf	-Inf	34.06	3	Vertical	187	2.07	-
PK	2.483502G	69.34	74.00	-4.66	34.07	3	Vertical	187	2.07	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2442MHz\_TX

03/05/2018

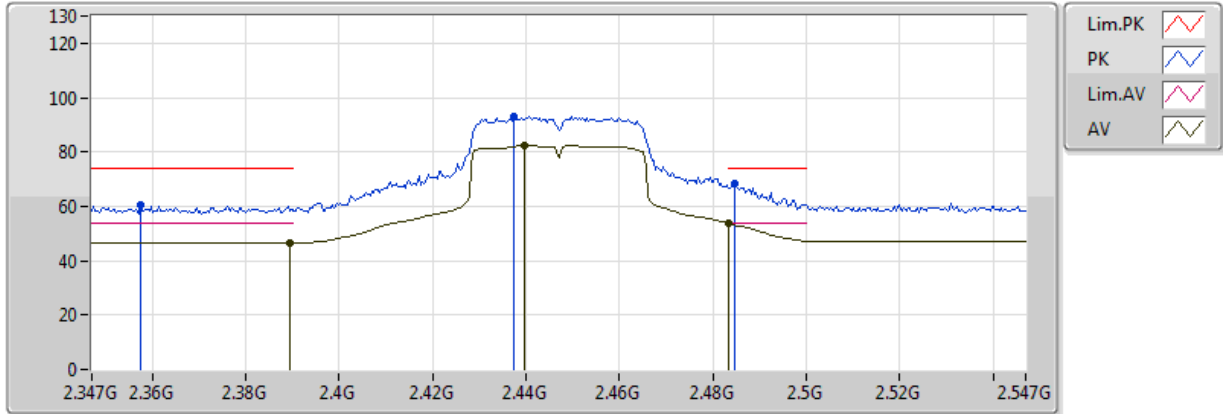


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	47.12	54.00	-6.88	34.05	3	Horizontal	142	1.00	-
AV	2.4304G	81.45	Inf	-Inf	34.06	3	Horizontal	142	1.00	-
AV	2.483502G	50.71	54.00	-3.29	34.07	3	Horizontal	142	1.00	-
PK	2.3896G	61.09	74.00	-12.91	34.05	3	Horizontal	142	1.00	-
PK	2.4356G	92.14	Inf	-Inf	34.06	3	Horizontal	142	1.00	-
PK	2.483502G	65.72	74.00	-8.28	34.07	3	Horizontal	142	1.00	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2447MHz\_TX

03/05/2018

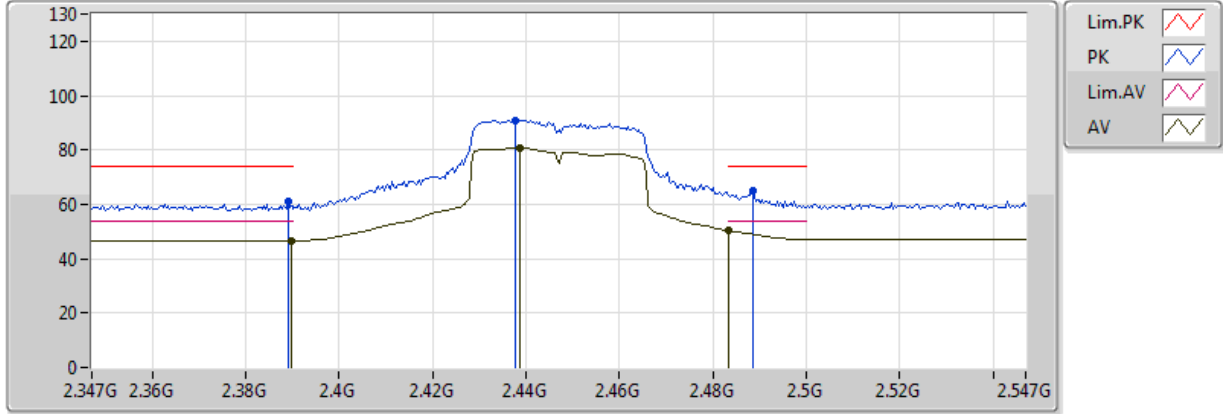


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	46.59	54.00	-7.41	34.05	3	Vertical	187	2.08	-
AV	2.4398G	82.45	Inf	-Inf	34.06	3	Vertical	187	2.08	-
AV	2.483502G	53.60	54.00	-0.40	34.07	3	Vertical	187	2.08	-
PK	2.3574G	60.50	74.00	-13.50	34.05	3	Vertical	187	2.08	-
PK	2.4374G	93.26	Inf	-Inf	34.06	3	Vertical	187	2.08	-
PK	2.4846G	68.14	74.00	-5.86	34.07	3	Vertical	187	2.08	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2447MHz\_TX

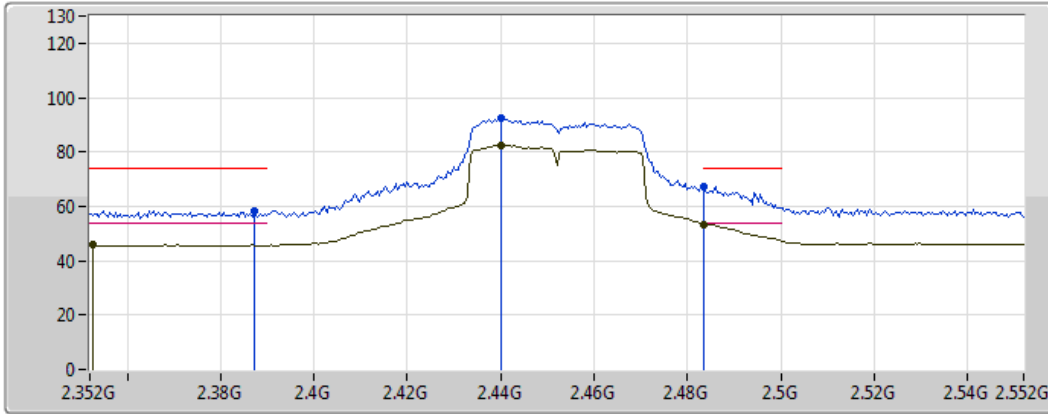
03/05/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	46.62	54.00	-7.38	34.05	3	Horizontal	140	1.83	-
AV	2.4386G	80.74	Inf	-Inf	34.06	3	Horizontal	140	1.83	-
AV	2.483502G	50.20	54.00	-3.80	34.07	3	Horizontal	140	1.83	-
PK	2.389G	61.16	74.00	-12.84	34.05	3	Horizontal	140	1.83	-
PK	2.4378G	90.98	Inf	-Inf	34.06	3	Horizontal	140	1.83	-
PK	2.4886G	65.16	74.00	-8.84	34.07	3	Horizontal	140	1.83	-

**802.11n HT40\_Nss1,(MCS0)\_1TX  
2452MHz\_TX**

03/05/2018



Legend for the spectrum plot:

- Lim.PK: Red line with a peak icon
- PK: Blue line with a peak icon
- Lim.AV: Red line with a valley icon
- AV: Blue line with a valley icon

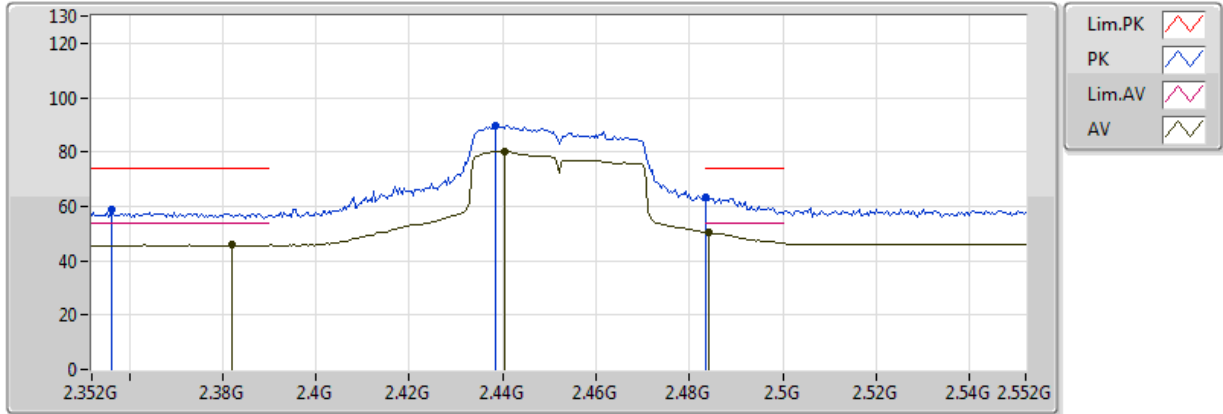
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3528G	45.76	54.00	-8.24	34.05	3	Vertical	161	1.21	-
AV	2.483502G	53.41	54.00	-0.59	34.07	3	Vertical	161	1.21	-
AV	2.44G	82.39	Inf	-Inf	34.06	3	Vertical	161	1.21	-
PK	2.3872G	58.49	74.00	-15.51	34.05	3	Vertical	161	1.21	-
PK	2.483502G	67.39	74.00	-6.61	34.07	3	Vertical	161	1.21	-
PK	2.44G	92.41	Inf	-Inf	34.06	3	Vertical	161	1.21	-



### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2452MHz\_TX

03/05/2018

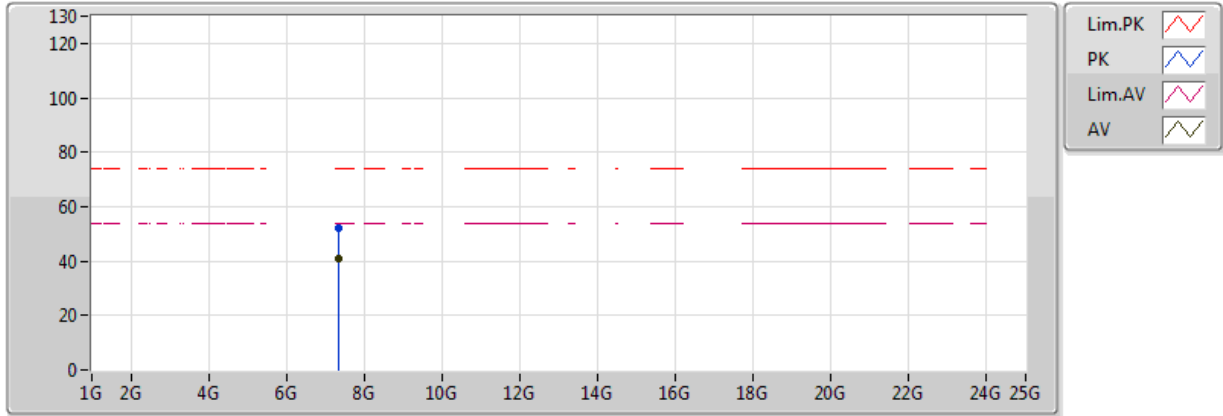


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.382G	45.69	54.00	-8.31	34.05	3	Horizontal	186	1.68	-
AV	2.484G	50.51	54.00	-3.49	34.07	3	Horizontal	186	1.68	-
AV	2.4404G	80.39	Inf	-Inf	34.06	3	Horizontal	186	1.68	-
PK	2.3564G	58.59	74.00	-15.41	34.05	3	Horizontal	186	1.68	-
PK	2.483502G	63.53	74.00	-10.47	34.07	3	Horizontal	186	1.68	-
PK	2.4384G	89.67	Inf	-Inf	34.06	3	Horizontal	186	1.68	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2452MHz\_TX

03/05/2018

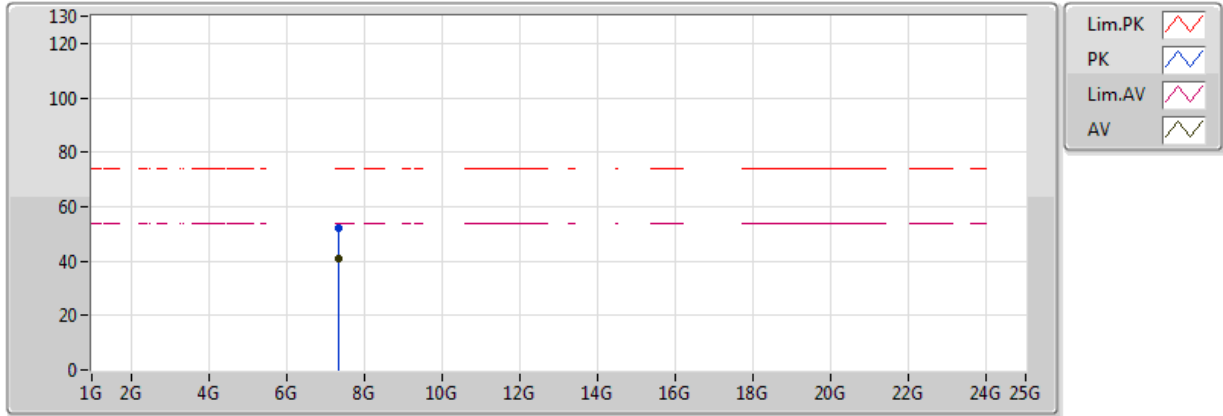


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	7.3512G	41.07	54.00	-12.93	10.45	3	Vertical	176	0.00	-
PK	7.3618G	52.16	74.00	-21.84	10.47	3	Vertical	176	0.00	-

### 802.11n HT40\_Nss1,(MCS0)\_1TX

### 2452MHz\_TX

03/05/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	7.36G	40.95	54.00	-13.05	10.46	3	Horizontal	137	0.00	-
PK	7.3582G	51.93	74.00	-22.07	10.46	3	Horizontal	137	0.00	-