

# FCC Test Report

**FCC ID** : COFMT-52  
**Equipment** : 802.11b/g/n + BT 4.2 IOT Module  
**Brand Name** : USI  
**Model Name** : MT-52  
**Applicant / Manufacturer** : Universal Global Scientific Industrial Co., Ltd  
141, Lane 351, Sec. 1, Taiping Road.,  
Tsaotuen, Nantou 54261, Taiwan  
**Standard** : 47 CFR FCC Part 15.247

This report was evaluated for permissive change. The product was received on Aug. 07, 2018, and testing was completed on Sep. 15, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

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



# Table of Contents

**HISTORY OF THIS TEST REPORT .....3**

**SUMMARY OF TEST RESULT .....4**

**1 GENERAL DESCRIPTION .....5**

1.1 Information.....5

1.2 Testing Location Information .....6

1.3 Measurement Uncertainty .....6

**2 TEST CONFIGURATION OF EUT.....7**

2.1 The Worst Case Measurement Configuration .....7

2.2 Support Equipment.....7

2.3 Test Setup Diagram .....8

**3 TRANSMITTER TEST RESULT .....9**

3.1 Emissions in Restricted Frequency Bands.....9

**4 TEST EQUIPMENT AND CALIBRATION DATA .....13**

**APPENDIX A. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS**

**APPENDIX B. TEST PHOTOS**

**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	15.247(d)	Emissions in Restricted Frequency Bands	PASS	Restricted Bands: FCC 15.209

Reviewed by: Jackson Tsai

Report Producer: Debby Hung



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX

Note:

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

### 1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	SmartAnt	USI05-220170	Dipole antenna	MHF-SW23	2.5

**For 2.4GHz function:**

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

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

**For BT function:**

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

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

### 1.1.3 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR880224AC

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Dipole Antenna was added	Emissions in Restricted Frequency Bands was evaluated

## 1.2 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
Radiated	03CH03-HY	Jeff	24.2°C / 62%	15/Sep/2018




## 1.3 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
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%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%

## 2 Test Configuration of EUT

### 2.1 The Worst Case Measurement Configuration

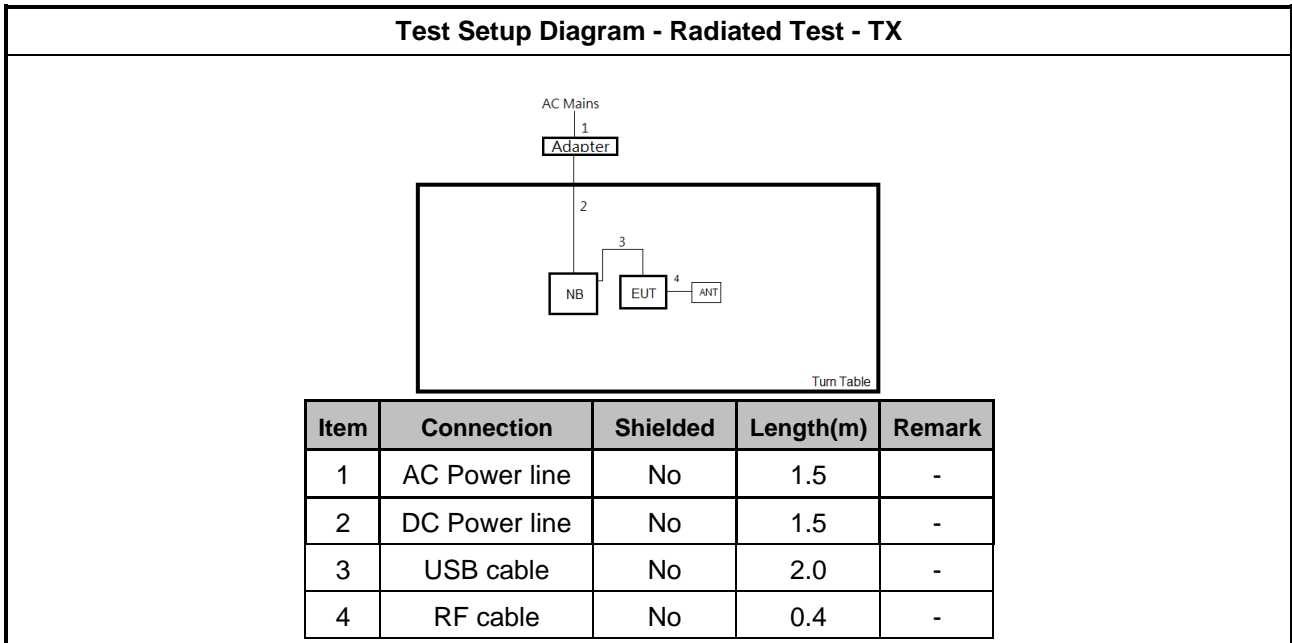
The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should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

### 2.2 Support Equipment

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5520	-
2	AC adapter	DELL	LA65NS2-01	-
3	Fixture	-	-	-

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

### 2.3 Test Setup Diagram







### 3 Transmitter Test Result

#### 3.1 Emissions in Restricted Frequency Bands

##### 3.1.1 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.

##### 3.1.2 Measuring Instruments

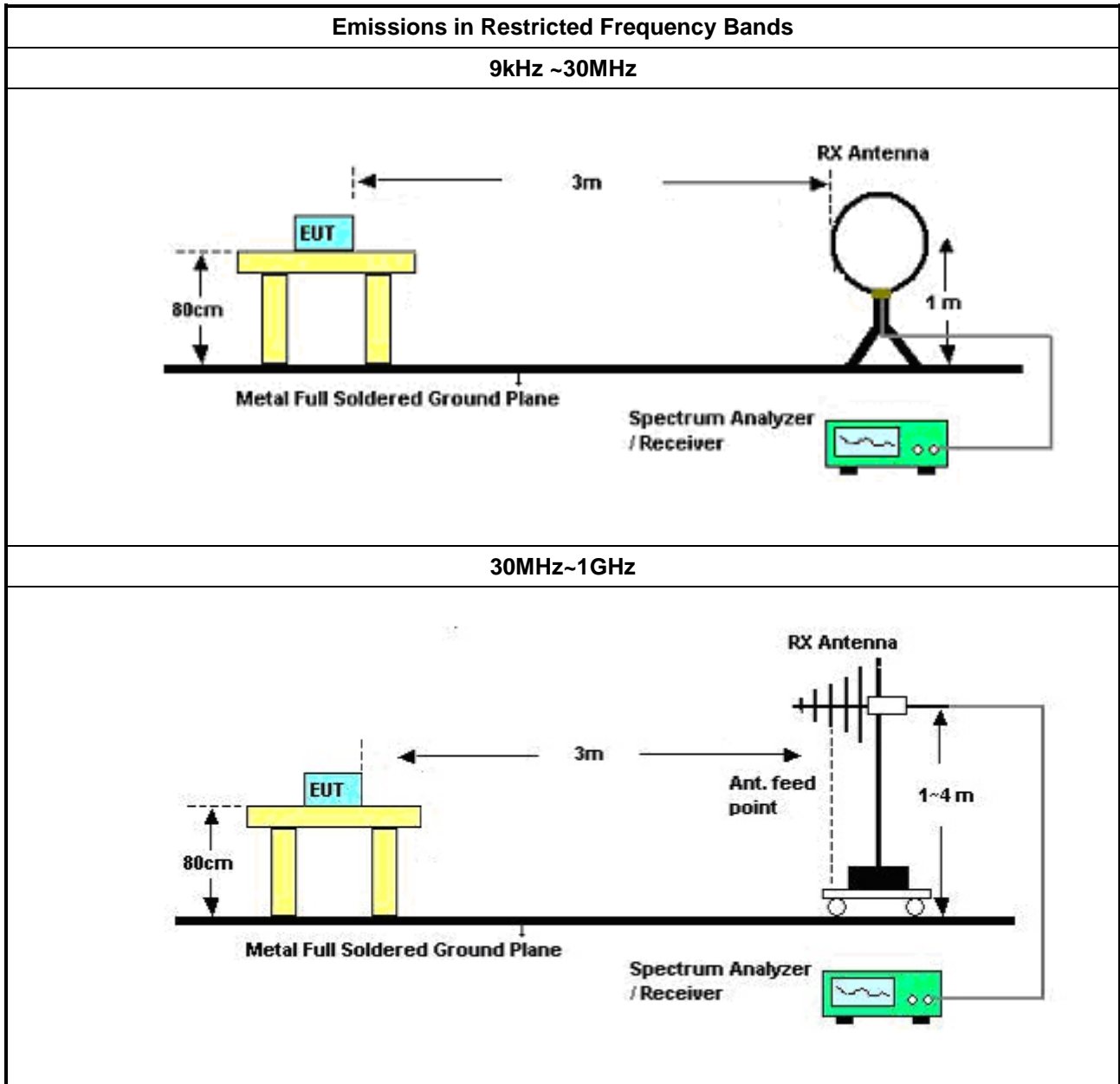
Refer a test equipment and calibration data table in this test report.

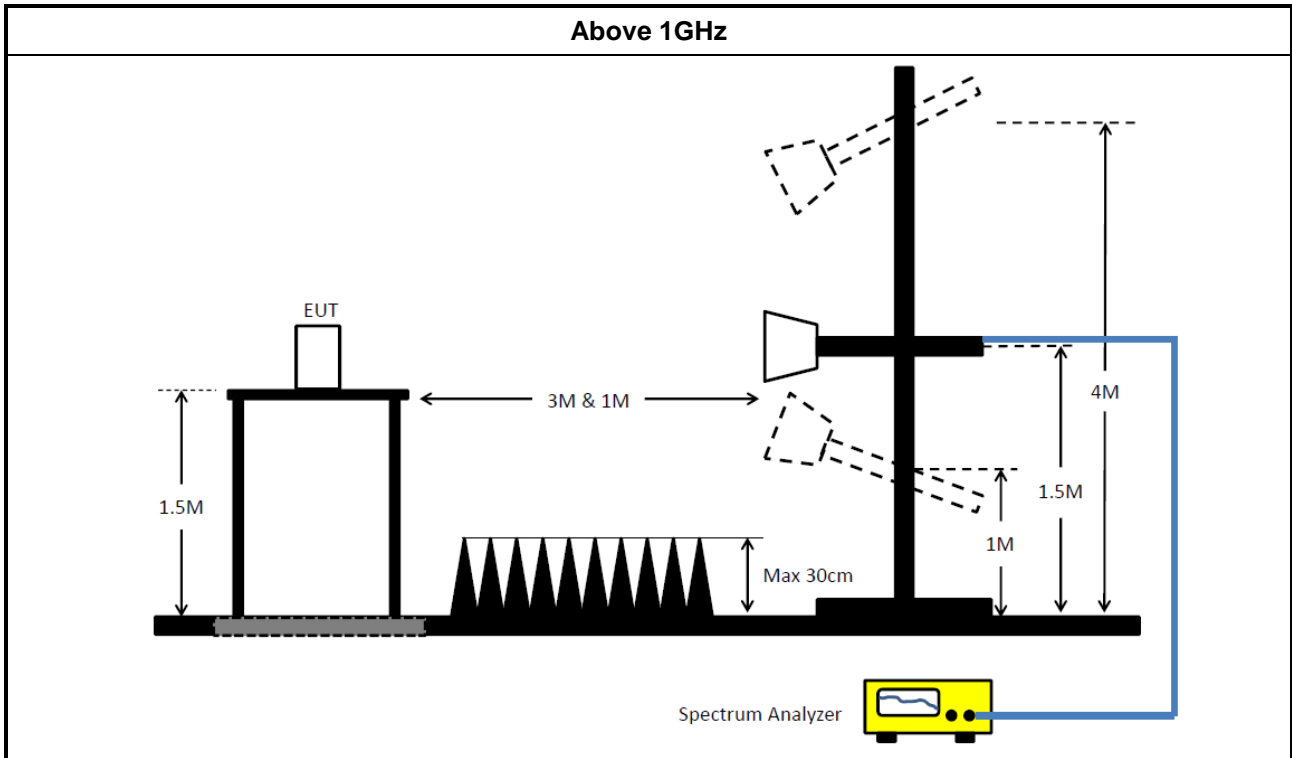


3.1.3 Test Procedures

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>

### 3.1.4 Test Setup





### 3.1.5 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.

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

Refer as Appendix A



## 4 Test Equipment and Calibration Data

### Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	31/Oct/2017	30/Oct/2018
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz 3m	01/Nov/2017	31/Oct/2018
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	23/Apr/2018	19/Apr/2019
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz ~ 26.5GHz	30/Aug/2018	29/Aug/2019
Signal Analyzer	R&S	FSP40	100305	10Hz ~ 40GHz	04/Jan/2018	03/Jan/2019
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	29/Jan/2018	28/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX 106	CB222	1GHz ~ 40GHz	29/Jan/2018	28/Jan/2019
Bilog Antenna & 5db Attenuator	SCHAFFNE R/MTJ	CBL6112D / MTJ6102-05	2678 / 001	30MHz ~ 2GHz	07/July/2018	06/July/2019
Receiver	R&S	ESCS 30	100354	9kHz ~ 2.75GHz	08/Dec/2017	07/Dec/2018
Broadband Horn Antenna	SCHWARZBEC K	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	06/Feb/ 2018	05/Feb/2019
Double Ridged Guide Horn Antenna	SCHWARZBEC K	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	18/Apr/ 2018	17/Apr/2019
Loop Antenna	TESEQ	HLA 6120	31244	9kHz ~ 30MHz	28/Mar/2018	27/Mar/2019



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	62.98M	33.11	40.00	-6.89	-14.36	3	Horizontal	0	1.00	-



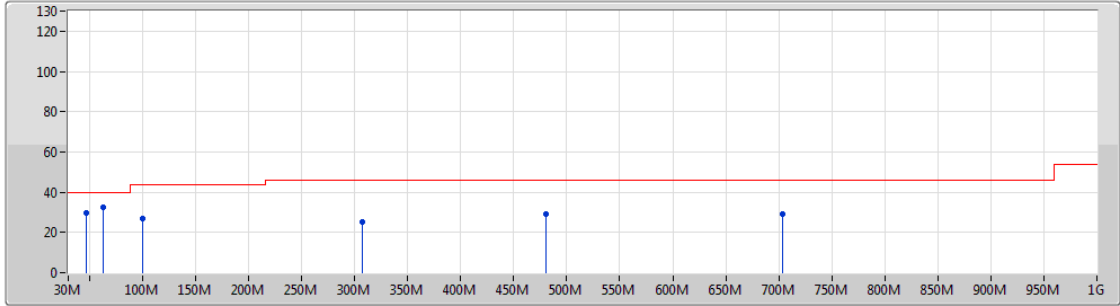
Result

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	47.46M	29.60	40.00	-10.40	-11.62	3	Vertical	360	1.00	-
2437MHz	Pass	PK	62.98M	32.43	40.00	-7.57	-14.36	3	Vertical	360	1.00	-
2437MHz	Pass	PK	99.84M	26.72	43.50	-16.78	-9.41	3	Vertical	360	1.00	-
2437MHz	Pass	PK	307.42M	25.00	46.00	-21.00	-5.52	3	Vertical	360	1.00	-
2437MHz	Pass	PK	480.08M	29.25	46.00	-16.75	-1.41	3	Vertical	360	1.00	-
2437MHz	Pass	PK	703.18M	29.09	46.00	-16.91	0.49	3	Vertical	360	1.00	-
2437MHz	Pass	PK	62.98M	33.11	40.00	-6.89	-14.36	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	142.52M	30.26	43.50	-13.24	-8.95	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	247.28M	21.25	46.00	-24.75	-6.94	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	414.12M	22.54	46.00	-23.46	-2.39	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	738.1M	27.36	46.00	-18.64	1.38	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	862.26M	30.93	46.00	-15.07	2.77	3	Horizontal	0	1.00	-

802.11n HT40\_Nss1,(MCS0)\_1TX

15/09/2018

2437MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	47.46M	29.60	40.00	-10.40	-11.62	3	Vertical	360	1.00	-
PK	62.98M	32.43	40.00	-7.57	-14.36	3	Vertical	360	1.00	-
PK	99.84M	26.72	43.50	-16.78	-9.41	3	Vertical	360	1.00	-
PK	307.42M	25.00	46.00	-21.00	-5.52	3	Vertical	360	1.00	-
PK	480.08M	29.25	46.00	-16.75	-1.41	3	Vertical	360	1.00	-
PK	703.18M	29.09	46.00	-16.91	0.49	3	Vertical	360	1.00	-

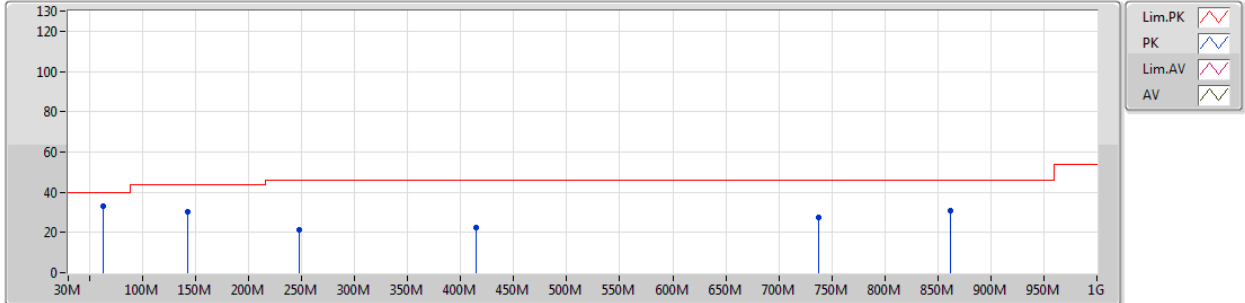




802.11n HT40\_Nss1,(MCS0)\_1TX

15/09/2018

2437MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	62.98M	33.11	40.00	-6.89	-14.36	3	Horizontal	0	1.00	-
PK	142.52M	30.26	43.50	-13.24	-8.95	3	Horizontal	0	1.00	-
PK	247.28M	21.25	46.00	-24.75	-6.94	3	Horizontal	0	1.00	-
PK	414.12M	22.54	46.00	-23.46	-2.39	3	Horizontal	0	1.00	-
PK	738.11M	27.36	46.00	-18.64	1.38	3	Horizontal	0	1.00	-
PK	862.26M	30.93	46.00	-15.07	2.77	3	Horizontal	0	1.00	-



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	4.82396G	49.90	54.00	-4.10	2.13	3	Horizontal	74	1.11	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	49.42	54.00	-4.58	31.11	3	Horizontal	69	1.02	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	50.92	54.00	-3.08	31.11	3	Horizontal	72	1.11	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	AV	2.4844G	51.12	54.00	-2.88	31.12	3	Horizontal	286	1.00	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3898G	46.18	54.00	-7.82	30.77	3	Horizontal	71	1.07	-
2412MHz	Pass	AV	2.4128G	105.07	Inf	-Inf	30.86	3	Horizontal	71	1.07	-
2412MHz	Pass	PK	2.3792G	56.64	74.00	-17.36	30.74	3	Horizontal	71	1.07	-
2412MHz	Pass	PK	2.4128G	106.80	Inf	-Inf	30.86	3	Horizontal	71	1.07	-
2412MHz	Pass	AV	4.82396G	49.20	54.00	-4.80	2.13	3	Vertical	209	3.19	-
2412MHz	Pass	PK	4.82402G	51.83	74.00	-22.17	2.13	3	Vertical	209	3.19	-
2412MHz	Pass	AV	4.82396G	49.90	54.00	-4.10	2.13	3	Horizontal	74	1.11	-
2412MHz	Pass	PK	4.82388G	52.43	74.00	-21.57	2.13	3	Horizontal	74	1.11	-
2417MHz	Pass	AV	2.3898G	46.34	54.00	-7.66	30.77	3	Horizontal	78	1.06	-
2417MHz	Pass	AV	2.4178G	105.27	Inf	-Inf	30.87	3	Horizontal	78	1.06	-
2417MHz	Pass	PK	2.3812G	56.75	74.00	-17.25	30.75	3	Horizontal	78	1.06	-
2417MHz	Pass	PK	2.4178G	107.00	Inf	-Inf	30.87	3	Horizontal	78	1.06	-
2437MHz	Pass	AV	2.371G	43.26	54.00	-10.74	30.71	3	Horizontal	286	1.25	-
2437MHz	Pass	AV	2.4362G	104.30	Inf	-Inf	30.94	3	Horizontal	286	1.25	-
2437MHz	Pass	AV	2.4886G	44.79	54.00	-9.21	31.13	3	Horizontal	286	1.25	-
2437MHz	Pass	PK	2.3682G	56.10	74.00	-17.90	30.70	3	Horizontal	286	1.25	-
2437MHz	Pass	PK	2.4378G	106.61	Inf	-Inf	30.95	3	Horizontal	286	1.25	-
2437MHz	Pass	PK	2.4846G	57.09	74.00	-16.91	31.12	3	Horizontal	286	1.25	-
2437MHz	Pass	AV	4.87396G	46.92	54.00	-7.08	2.25	3	Vertical	312	3.19	-
2437MHz	Pass	PK	4.87392G	50.13	74.00	-23.87	2.25	3	Vertical	312	3.19	-
2437MHz	Pass	AV	4.87396G	46.27	54.00	-7.73	2.25	3	Horizontal	20	1.01	-
2437MHz	Pass	PK	4.87396G	49.94	74.00	-24.06	2.25	3	Horizontal	20	1.01	-
2462MHz	Pass	AV	2.4612G	105.54	Inf	-Inf	31.03	3	Horizontal	75	1.03	-
2462MHz	Pass	AV	2.4986G	45.94	54.00	-8.06	31.17	3	Horizontal	75	1.03	-
2462MHz	Pass	PK	2.461G	107.69	Inf	-Inf	31.03	3	Horizontal	75	1.03	-
2462MHz	Pass	PK	2.4958G	58.62	74.00	-15.38	31.16	3	Horizontal	75	1.03	-
2462MHz	Pass	AV	4.92394G	49.15	54.00	-4.85	2.38	3	Vertical	306	2.74	-
2462MHz	Pass	PK	4.92388G	52.04	74.00	-21.96	2.38	3	Vertical	306	2.74	-
2462MHz	Pass	AV	4.92396G	48.92	54.00	-5.08	2.38	3	Horizontal	70	1.06	-
2462MHz	Pass	PK	4.92394G	51.89	74.00	-22.11	2.38	3	Horizontal	70	1.06	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	47.00	54.00	-7.00	30.77	3	Horizontal	72	1.05	-
2412MHz	Pass	AV	2.4128G	99.29	Inf	-Inf	30.86	3	Horizontal	72	1.05	-
2412MHz	Pass	PK	2.39G	63.42	74.00	-10.58	30.77	3	Horizontal	72	1.05	-
2412MHz	Pass	PK	2.4148G	108.59	Inf	-Inf	30.86	3	Horizontal	72	1.05	-
2412MHz	Pass	AV	4.8258G	33.45	54.00	-20.55	2.14	3	Vertical	282	2.72	-
2412MHz	Pass	PK	4.82322G	46.30	74.00	-27.70	2.13	3	Vertical	282	2.72	-
2412MHz	Pass	AV	4.8243G	34.28	54.00	-19.72	2.13	3	Horizontal	70	1.11	-
2412MHz	Pass	PK	4.82406G	48.08	74.00	-25.92	2.13	3	Horizontal	70	1.11	-
2437MHz	Pass	AV	2.3898G	43.78	54.00	-10.22	30.77	3	Horizontal	66	1.05	-
2437MHz	Pass	AV	2.4378G	98.41	Inf	-Inf	30.95	3	Horizontal	66	1.05	-
2437MHz	Pass	AV	2.4934G	45.67	54.00	-8.33	31.14	3	Horizontal	66	1.05	-
2437MHz	Pass	PK	2.3478G	56.79	74.00	-17.21	30.62	3	Horizontal	66	1.05	-
2437MHz	Pass	PK	2.437G	108.60	Inf	-Inf	30.94	3	Horizontal	66	1.05	-
2437MHz	Pass	PK	2.4835G	58.18	74.00	-15.82	31.11	3	Horizontal	66	1.05	-
2437MHz	Pass	AV	4.87876G	33.48	54.00	-20.52	2.27	3	Vertical	97	1.28	-
2437MHz	Pass	PK	4.86922G	46.59	74.00	-27.41	2.24	3	Vertical	97	1.28	-



RSE TX above 1GHz Result

Appendix A.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	AV	4.87772G	34.61	54.00	-19.39	2.26	3	Horizontal	317	2.45	-
2437MHz	Pass	PK	4.8768G	47.79	74.00	-26.21	2.26	3	Horizontal	317	2.45	-
2462MHz	Pass	AV	2.4626G	99.35	Inf	-Inf	31.04	3	Horizontal	69	1.02	-
2462MHz	Pass	AV	2.4835G	49.42	54.00	-4.58	31.11	3	Horizontal	69	1.02	-
2462MHz	Pass	PK	2.4604G	109.27	Inf	-Inf	31.03	3	Horizontal	69	1.02	-
2462MHz	Pass	PK	2.4836G	67.11	74.00	-6.89	31.11	3	Horizontal	69	1.02	-
2462MHz	Pass	AV	4.92718G	33.92	54.00	-20.08	2.39	3	Vertical	45	1.82	-
2462MHz	Pass	PK	4.92608G	46.67	74.00	-27.33	2.39	3	Vertical	45	1.82	-
2462MHz	Pass	AV	4.9289G	34.54	54.00	-19.46	2.40	3	Horizontal	217	1.82	-
2462MHz	Pass	PK	4.9254G	48.29	74.00	-25.71	2.39	3	Horizontal	217	1.82	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	49.60	54.00	-4.40	30.77	3	Horizontal	67	1.04	-
2412MHz	Pass	AV	2.4134G	99.00	Inf	-Inf	30.86	3	Horizontal	67	1.04	-
2412MHz	Pass	PK	2.39G	68.63	74.00	-5.37	30.77	3	Horizontal	67	1.04	-
2412MHz	Pass	PK	2.4138G	109.02	Inf	-Inf	30.86	3	Horizontal	67	1.04	-
2412MHz	Pass	AV	4.82848G	33.99	54.00	-20.01	2.15	3	Vertical	313	1.65	-
2412MHz	Pass	PK	4.82294G	46.36	74.00	-27.64	2.13	3	Vertical	313	1.65	-
2412MHz	Pass	AV	4.82876G	33.19	54.00	-20.81	2.15	3	Horizontal	267	2.00	-
2412MHz	Pass	PK	4.82762G	46.52	74.00	-27.48	2.14	3	Horizontal	267	2.00	-
2437MHz	Pass	AV	2.389G	43.59	54.00	-10.41	30.77	3	Horizontal	69	1.08	-
2437MHz	Pass	AV	2.4378G	98.26	Inf	-Inf	30.95	3	Horizontal	69	1.08	-
2437MHz	Pass	AV	2.4934G	45.61	54.00	-8.39	31.14	3	Horizontal	69	1.08	-
2437MHz	Pass	PK	2.3842G	56.10	74.00	-17.90	30.76	3	Horizontal	69	1.08	-
2437MHz	Pass	PK	2.4358G	107.80	Inf	-Inf	30.94	3	Horizontal	69	1.08	-
2437MHz	Pass	PK	2.4954G	58.44	74.00	-15.56	31.16	3	Horizontal	69	1.08	-
2437MHz	Pass	AV	4.87514G	33.75	54.00	-20.25	2.26	3	Vertical	142	1.04	-
2437MHz	Pass	PK	4.87408G	46.50	74.00	-27.50	2.25	3	Vertical	142	1.04	-
2437MHz	Pass	AV	4.8787G	33.85	54.00	-20.15	2.27	3	Horizontal	347	1.91	-
2437MHz	Pass	PK	4.87484G	46.54	74.00	-27.46	2.25	3	Horizontal	347	1.91	-
2462MHz	Pass	AV	2.461G	99.18	Inf	-Inf	31.03	3	Horizontal	72	1.11	-
2462MHz	Pass	AV	2.4835G	50.92	54.00	-3.08	31.11	3	Horizontal	72	1.11	-
2462MHz	Pass	PK	2.4628G	108.88	Inf	-Inf	31.04	3	Horizontal	72	1.11	-
2462MHz	Pass	PK	2.4836G	70.19	74.00	-3.81	31.11	3	Horizontal	72	1.11	-
2462MHz	Pass	AV	4.92466G	33.76	54.00	-20.24	2.38	3	Vertical	306	2.95	-
2462MHz	Pass	PK	4.9222G	46.74	74.00	-27.26	2.38	3	Vertical	306	2.95	-
2462MHz	Pass	AV	4.9243G	33.49	54.00	-20.51	2.38	3	Horizontal	67	1.00	-
2462MHz	Pass	PK	4.92298G	46.55	74.00	-27.45	2.38	3	Horizontal	67	1.00	-
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.39G	49.32	54.00	-4.68	30.77	3	Horizontal	278	1.02	-
2422MHz	Pass	AV	2.4232G	93.09	Inf	-Inf	30.89	3	Horizontal	278	1.02	-
2422MHz	Pass	AV	2.484G	44.42	54.00	-9.58	31.12	3	Horizontal	278	1.02	-
2422MHz	Pass	PK	2.3892G	66.10	74.00	-7.90	30.77	3	Horizontal	278	1.02	-
2422MHz	Pass	PK	2.4276G	103.48	Inf	-Inf	30.91	3	Horizontal	278	1.02	-
2422MHz	Pass	PK	2.486G	58.26	74.00	-15.74	31.12	3	Horizontal	278	1.02	-
2422MHz	Pass	AV	4.84402G	30.07	54.00	-23.93	2.18	3	Vertical	248	1.83	-
2422MHz	Pass	PK	4.84722G	43.58	74.00	-30.42	2.19	3	Vertical	248	1.83	-
2422MHz	Pass	AV	4.8436G	30.21	54.00	-23.79	2.18	3	Horizontal	213	2.28	-
2422MHz	Pass	PK	4.8437G	43.53	74.00	-30.47	2.18	3	Horizontal	213	2.28	-
2427MHz	Pass	AV	2.3894G	46.67	54.00	-7.33	30.77	3	Horizontal	69	1.04	-



RSE TX above 1GHz Result

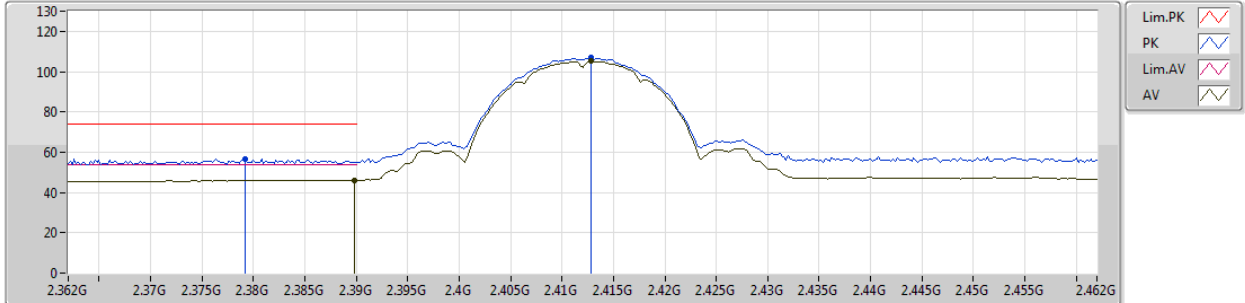
Appendix A.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2427MHz	Pass	AV	2.4254G	93.85	Inf	-Inf	30.90	3	Horizontal	69	1.04	-
2427MHz	Pass	AV	2.491G	44.69	54.00	-9.31	31.13	3	Horizontal	69	1.04	-
2427MHz	Pass	PK	2.3894G	61.85	74.00	-12.15	30.77	3	Horizontal	69	1.04	-
2427MHz	Pass	PK	2.4254G	103.63	Inf	-Inf	30.90	3	Horizontal	69	1.04	-
2427MHz	Pass	PK	2.4934G	57.04	74.00	-16.96	31.14	3	Horizontal	69	1.04	-
2437MHz	Pass	AV	2.3898G	43.81	54.00	-10.19	30.77	3	Horizontal	275	1.05	-
2437MHz	Pass	AV	2.4394G	93.94	Inf	-Inf	30.95	3	Horizontal	275	1.05	-
2437MHz	Pass	AV	2.4835G	45.32	54.00	-8.68	31.11	3	Horizontal	275	1.05	-
2437MHz	Pass	PK	2.379G	56.08	74.00	-17.92	30.74	3	Horizontal	275	1.05	-
2437MHz	Pass	PK	2.443G	103.68	Inf	-Inf	30.96	3	Horizontal	275	1.05	-
2437MHz	Pass	PK	2.4846G	57.52	74.00	-16.48	31.12	3	Horizontal	275	1.05	-
2437MHz	Pass	AV	4.8755G	29.37	54.00	-24.63	2.26	3	Vertical	267	1.85	-
2437MHz	Pass	PK	4.87638G	42.80	74.00	-31.20	2.26	3	Vertical	267	1.85	-
2437MHz	Pass	AV	4.87666G	29.42	54.00	-24.58	2.26	3	Horizontal	170	2.44	-
2437MHz	Pass	PK	4.87886G	43.80	74.00	-30.20	2.27	3	Horizontal	170	2.44	-
2452MHz	Pass	AV	2.3868G	43.10	54.00	-10.90	30.76	3	Horizontal	286	1.00	-
2452MHz	Pass	AV	2.4504G	94.33	Inf	-Inf	30.99	3	Horizontal	286	1.00	-
2452MHz	Pass	AV	2.4844G	51.12	54.00	-2.88	31.12	3	Horizontal	286	1.00	-
2452MHz	Pass	PK	2.3888G	56.40	74.00	-17.60	30.77	3	Horizontal	286	1.00	-
2452MHz	Pass	PK	2.4508G	104.23	Inf	-Inf	30.99	3	Horizontal	286	1.00	-
2452MHz	Pass	PK	2.4844G	67.41	74.00	-6.59	31.12	3	Horizontal	286	1.00	-
2452MHz	Pass	AV	4.89922G	29.46	54.00	-24.54	2.32	3	Vertical	141	2.05	-
2452MHz	Pass	PK	4.8997G	42.77	74.00	-31.23	2.32	3	Vertical	141	2.05	-
2452MHz	Pass	AV	4.89944G	29.60	54.00	-24.40	2.32	3	Horizontal	349	1.80	-
2452MHz	Pass	PK	4.90372G	43.18	74.00	-30.82	2.33	3	Horizontal	349	1.80	-

802.11b\_Nss1,(1Mbps)\_1TX

14/09/2018

2412MHz\_TX



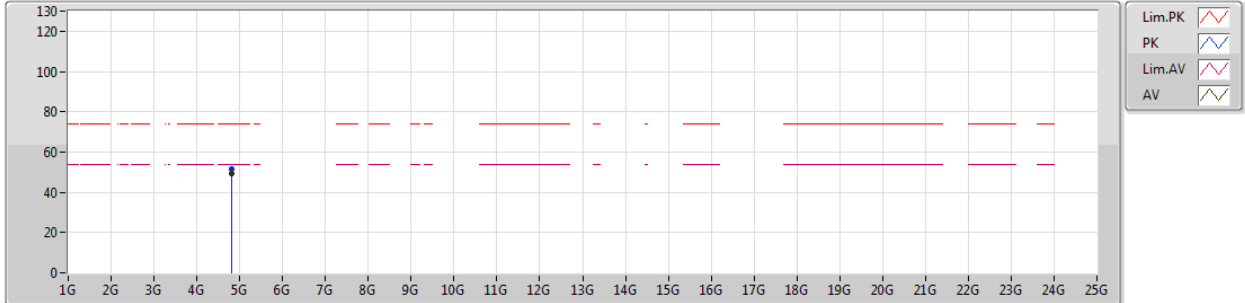
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	46.18	54.00	-7.82	30.77	3	Horizontal	71	1.07	-
AV	2.4128G	105.07	Inf	-Inf	30.86	3	Horizontal	71	1.07	-
PK	2.3792G	56.64	74.00	-17.36	30.74	3	Horizontal	71	1.07	-
PK	2.4128G	106.80	Inf	-Inf	30.86	3	Horizontal	71	1.07	-



802.11b\_Nss1,(1Mbps)\_1TX

14/09/2018

2412MHz\_TX



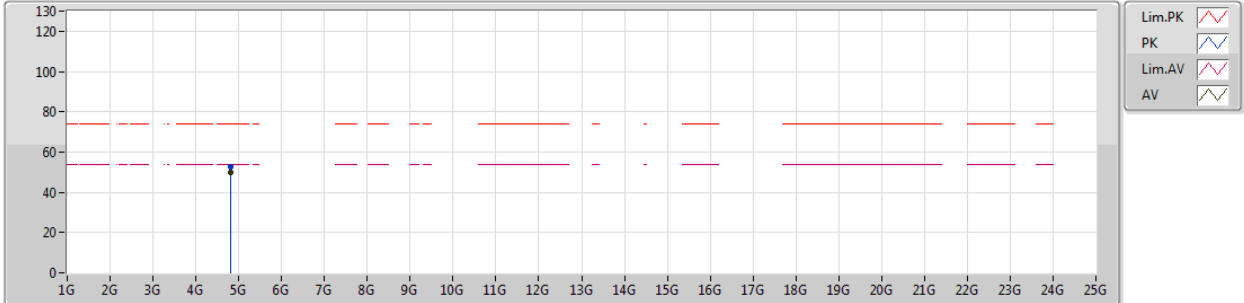
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82396G	49.20	54.00	-4.80	2.13	3	Vertical	209	3.19	-
PK	4.82402G	51.83	74.00	-22.17	2.13	3	Vertical	209	3.19	-



802.11b\_Nss1,(1Mbps)\_1TX

14/09/2018

2412MHz\_TX



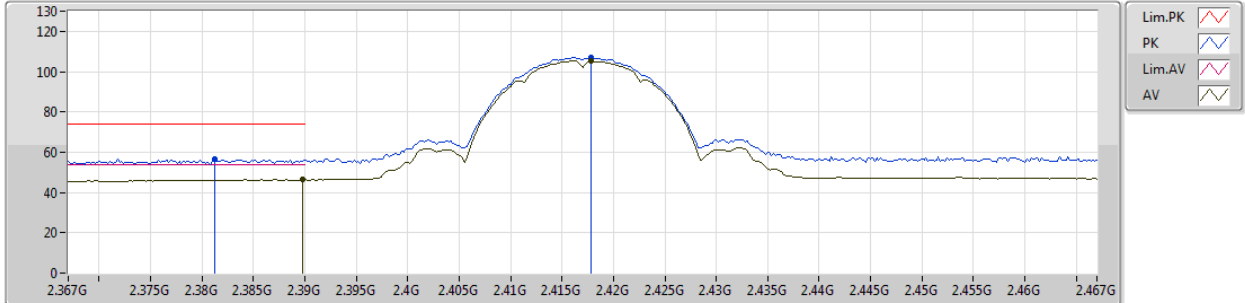
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82396G	49.90	54.00	-4.10	2.13	3	Horizontal	74	1.11	-
PK	4.82388G	52.43	74.00	-21.57	2.13	3	Horizontal	74	1.11	-



802.11b\_Nss1,(1Mbps)\_1TX

15/09/2018

2417MHz\_TX

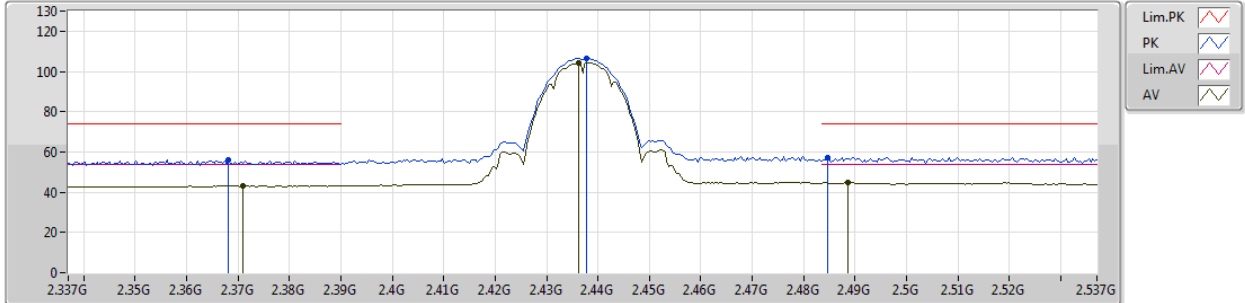


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	46.34	54.00	-7.66	30.77	3	Horizontal	78	1.06	-
AV	2.4178G	105.27	Inf	-Inf	30.87	3	Horizontal	78	1.06	-
PK	2.3812G	56.75	74.00	-17.25	30.75	3	Horizontal	78	1.06	-
PK	2.4178G	107.00	Inf	-Inf	30.87	3	Horizontal	78	1.06	-

802.11b\_Nss1,(1Mbps)\_1TX

14/09/2018

2437MHz\_TX

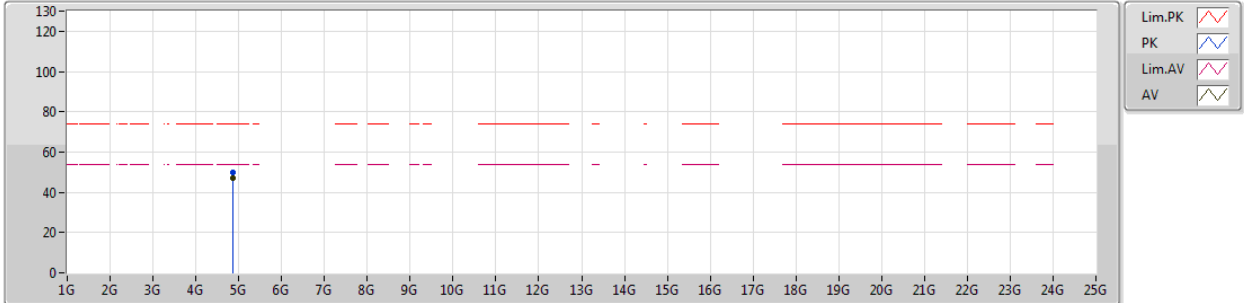


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.371G	43.26	54.00	-10.74	30.71	3	Horizontal	286	1.25	-
AV	2.4362G	104.30	Inf	-Inf	30.94	3	Horizontal	286	1.25	-
AV	2.4886G	44.79	54.00	-9.21	31.13	3	Horizontal	286	1.25	-
PK	2.3682G	56.10	74.00	-17.90	30.70	3	Horizontal	286	1.25	-
PK	2.4378G	106.61	Inf	-Inf	30.95	3	Horizontal	286	1.25	-
PK	2.4846G	57.09	74.00	-16.91	31.12	3	Horizontal	286	1.25	-

802.11b\_Nss1,(1Mbps)\_1TX

14/09/2018

2437MHz\_TX



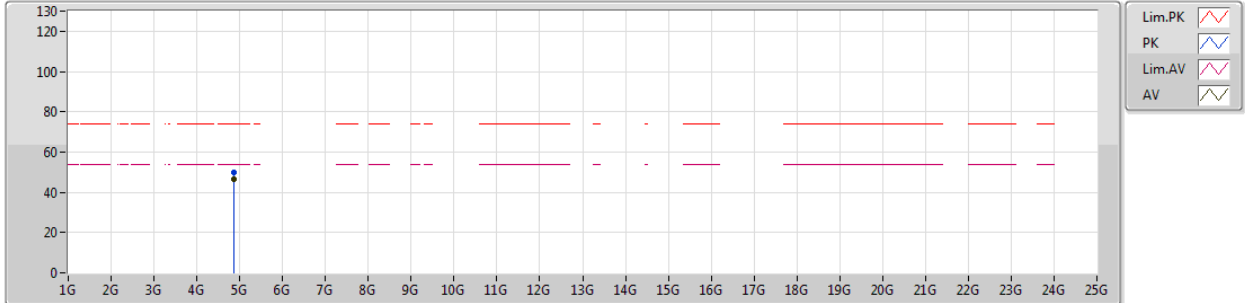
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87396G	46.92	54.00	-7.08	2.25	3	Vertical	312	3.19	-
PK	4.87392G	50.13	74.00	-23.87	2.25	3	Vertical	312	3.19	-



802.11b\_Nss1,(1Mbps)\_1TX

14/09/2018

2437MHz\_TX

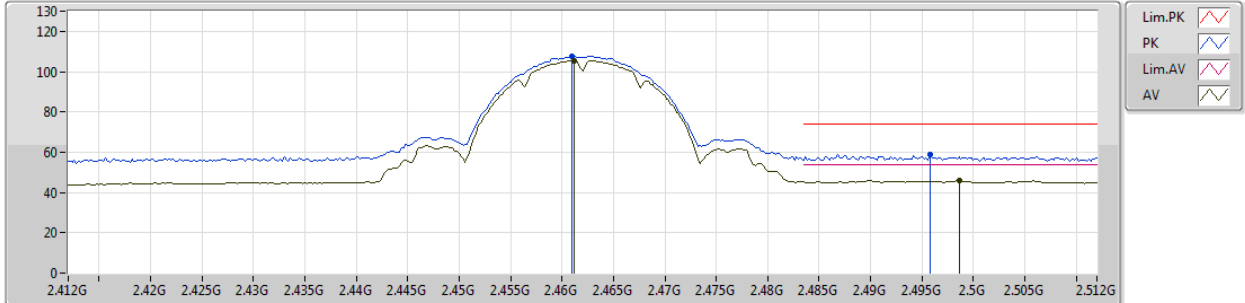


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87396G	46.27	54.00	-7.73	2.25	3	Horizontal	20	1.01	-
PK	4.87396G	49.94	74.00	-24.06	2.25	3	Horizontal	20	1.01	-

802.11b\_Nss1,(1Mbps)\_1TX

14/09/2018

2462MHz\_TX

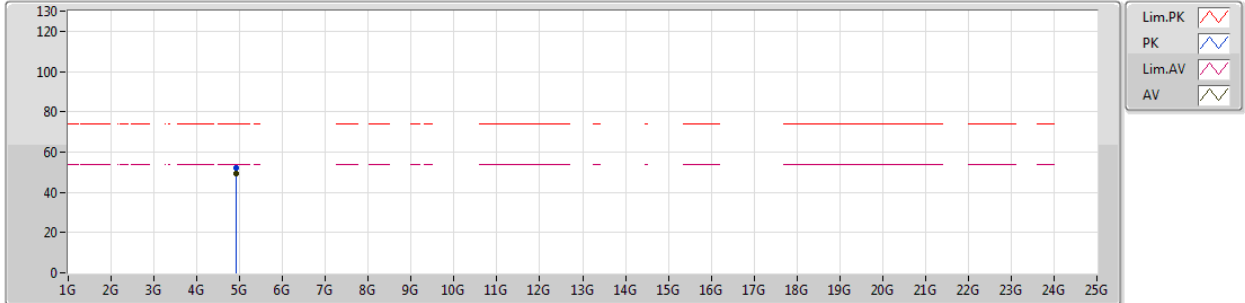


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4612G	105.54	Inf	-Inf	31.03	3	Horizontal	75	1.03	-
AV	2.4986G	45.94	54.00	-8.06	31.17	3	Horizontal	75	1.03	-
PK	2.461G	107.69	Inf	-Inf	31.03	3	Horizontal	75	1.03	-
PK	2.4958G	58.62	74.00	-15.38	31.16	3	Horizontal	75	1.03	-

802.11b\_Nss1,(1Mbps)\_1TX

14/09/2018

2462MHz\_TX



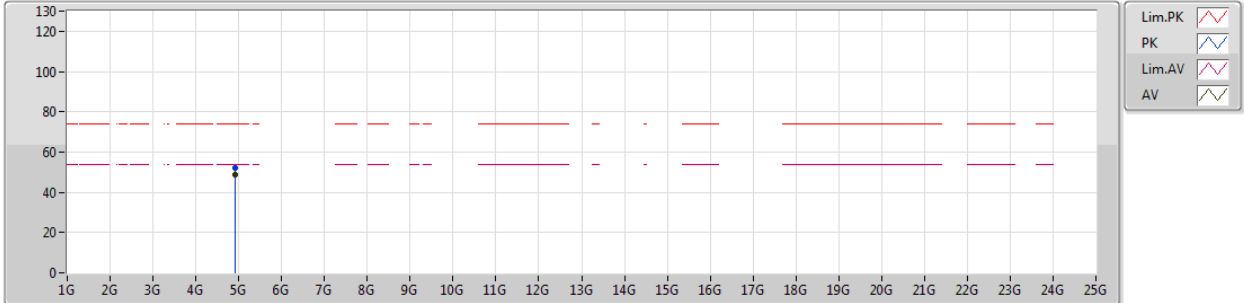
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92394G	49.15	54.00	-4.85	2.38	3	Vertical	306	2.74	-
PK	4.92388G	52.04	74.00	-21.96	2.38	3	Vertical	306	2.74	-



802.11b\_Nss1,(1Mbps)\_1TX

14/09/2018

2462MHz\_TX

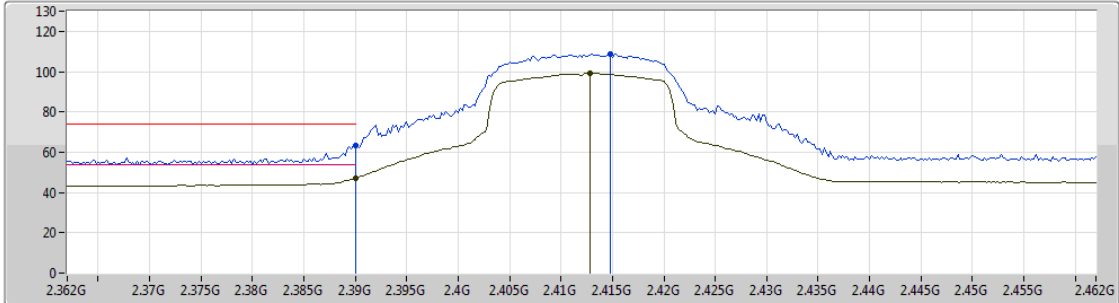


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92396G	48.92	54.00	-5.08	2.38	3	Horizontal	70	1.06	-
PK	4.92394G	51.89	74.00	-22.11	2.38	3	Horizontal	70	1.06	-

802.11g\_Nss1,(6Mbps)\_1TX

14/09/2018

2412MHz\_TX



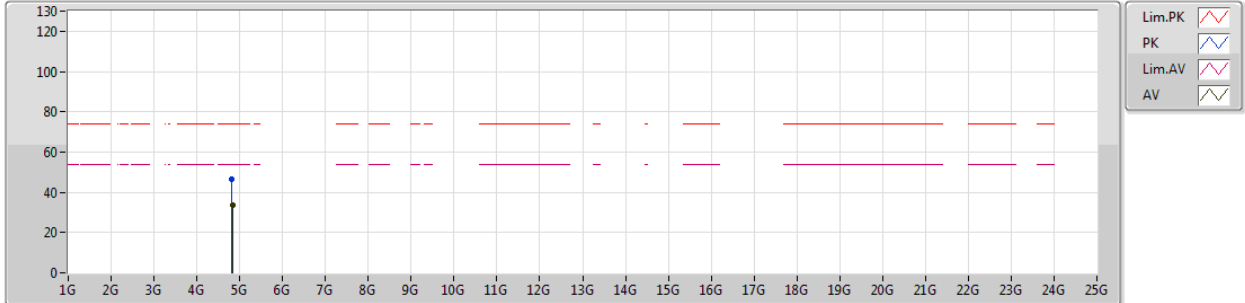
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	47.00	54.00	-7.00	30.77	3	Horizontal	72	1.05	-
AV	2.4128G	99.29	Inf	-Inf	30.86	3	Horizontal	72	1.05	-
PK	2.39G	63.42	74.00	-10.58	30.77	3	Horizontal	72	1.05	-
PK	2.4148G	108.59	Inf	-Inf	30.86	3	Horizontal	72	1.05	-



802.11g\_Nss1,(6Mbps)\_1TX

14/09/2018

2412MHz\_TX



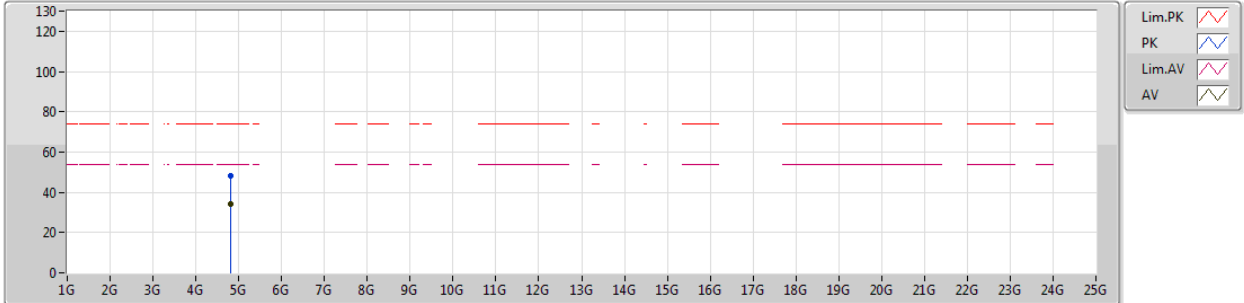
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8258G	33.45	54.00	-20.55	2.14	3	Vertical	282	2.72	-
PK	4.82322G	46.30	74.00	-27.70	2.13	3	Vertical	282	2.72	-



802.11g\_Nss1,(6Mbps)\_1TX

14/09/2018

2412MHz\_TX

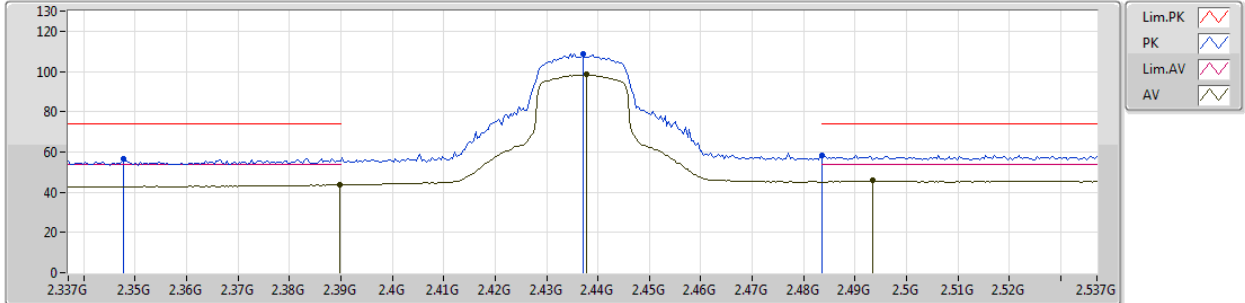


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8243G	34.28	54.00	-19.72	2.13	3	Horizontal	70	1.11	-
PK	4.82406G	48.08	74.00	-25.92	2.13	3	Horizontal	70	1.11	-

802.11g\_Nss1,(6Mbps)\_1TX

14/09/2018

2437MHz\_TX



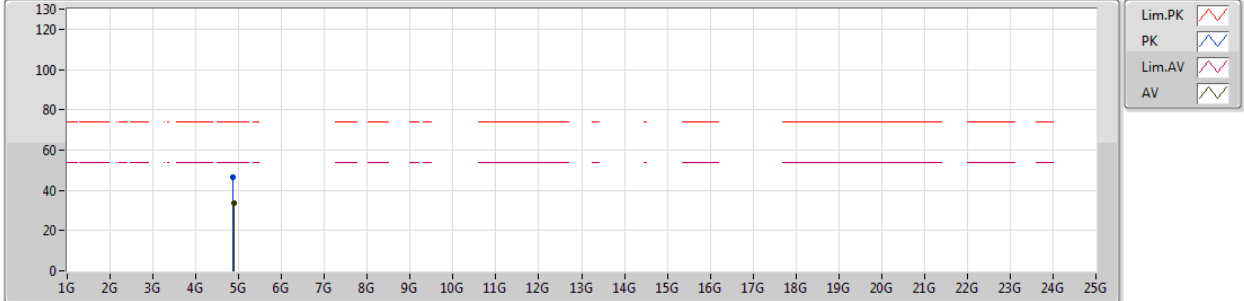
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	43.78	54.00	-10.22	30.77	3	Horizontal	66	1.05	-
AV	2.4378G	98.41	Inf	-Inf	30.95	3	Horizontal	66	1.05	-
AV	2.4934G	45.67	54.00	-8.33	31.14	3	Horizontal	66	1.05	-
PK	2.3478G	56.79	74.00	-17.21	30.62	3	Horizontal	66	1.05	-
PK	2.437G	108.60	Inf	-Inf	30.94	3	Horizontal	66	1.05	-
PK	2.4835G	58.18	74.00	-15.82	31.11	3	Horizontal	66	1.05	-



802.11g\_Nss1,(6Mbps)\_1TX

14/09/2018

2437MHz\_TX



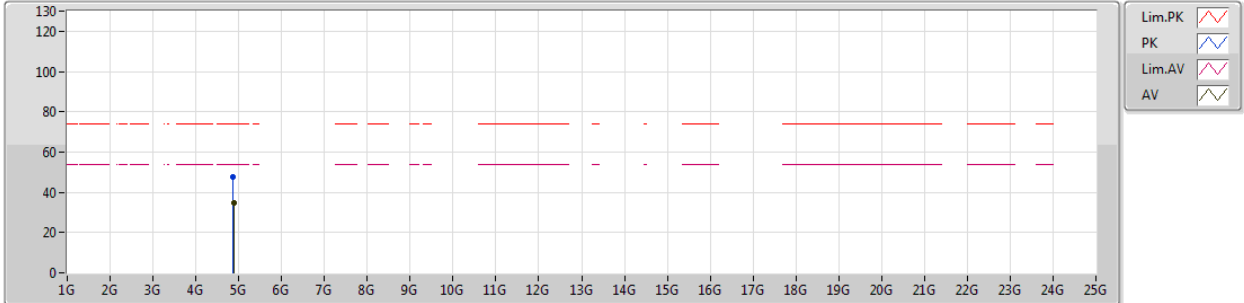
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87876G	33.48	54.00	-20.52	2.27	3	Vertical	97	1.28	-
PK	4.86922G	46.59	74.00	-27.41	2.24	3	Vertical	97	1.28	-



802.11g\_Nss1,(6Mbps)\_1TX

14/09/2018

2437MHz\_TX

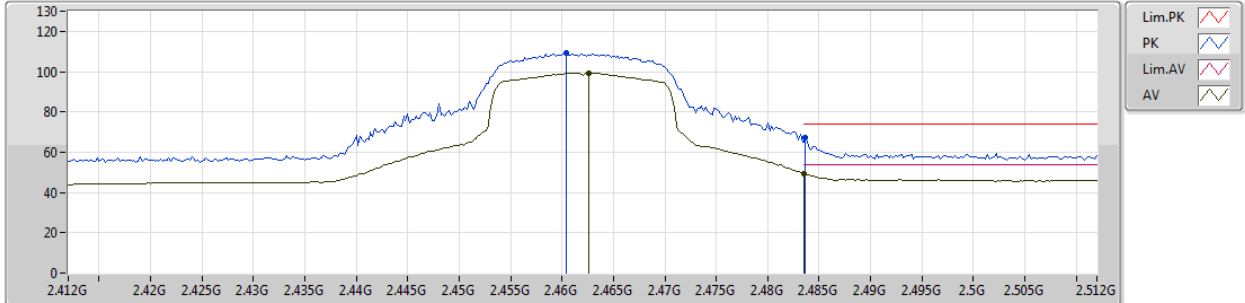


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87772G	34.61	54.00	-19.39	2.26	3	Horizontal	317	2.45	-
PK	4.8768G	47.79	74.00	-26.21	2.26	3	Horizontal	317	2.45	-

802.11g\_Nss1,(6Mbps)\_1TX

14/09/2018

2462MHz\_TX



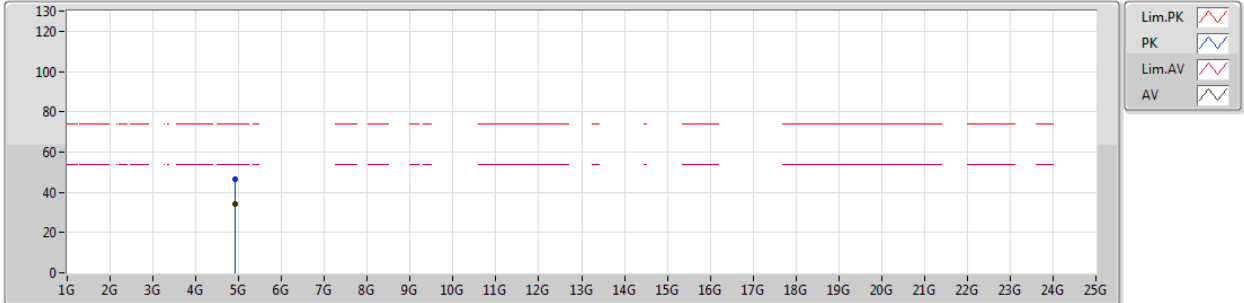
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4626G	99.35	Inf	-Inf	31.04	3	Horizontal	69	1.02	-
AV	2.4835G	49.42	54.00	-4.58	31.11	3	Horizontal	69	1.02	-
PK	2.4604G	109.27	Inf	-Inf	31.03	3	Horizontal	69	1.02	-
PK	2.4836G	67.11	74.00	-6.89	31.11	3	Horizontal	69	1.02	-



802.11g\_Nss1,(6Mbps)\_1TX

14/09/2018

2462MHz\_TX



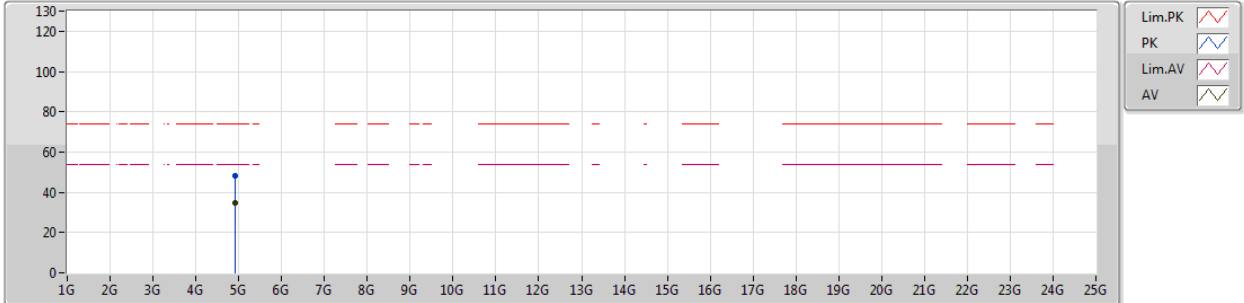
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92718G	33.92	54.00	-20.08	2.39	3	Vertical	45	1.82	-
PK	4.92608G	46.67	74.00	-27.33	2.39	3	Vertical	45	1.82	-



802.11g\_Nss1,(6Mbps)\_1TX

14/09/2018

2462MHz\_TX



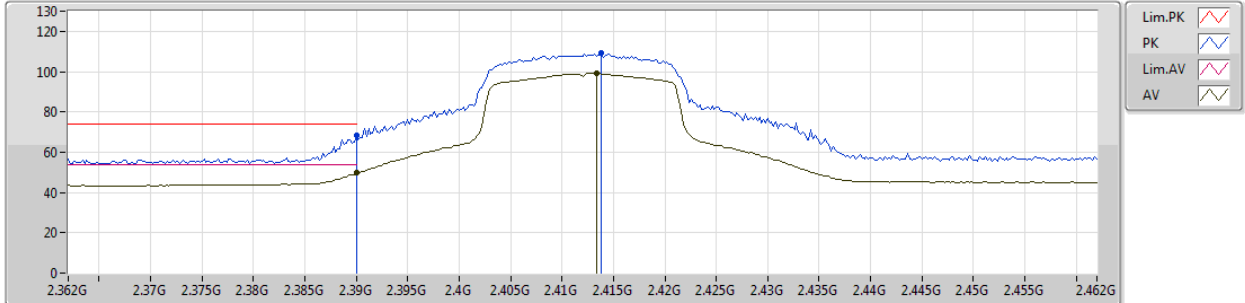
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9289G	34.54	54.00	-19.46	2.40	3	Horizontal	217	1.82	-
PK	4.9254G	48.29	74.00	-25.71	2.39	3	Horizontal	217	1.82	-



802.11n HT20\_Nss1,(MCS0)\_1TX

15/09/2018

2412MHz\_TX



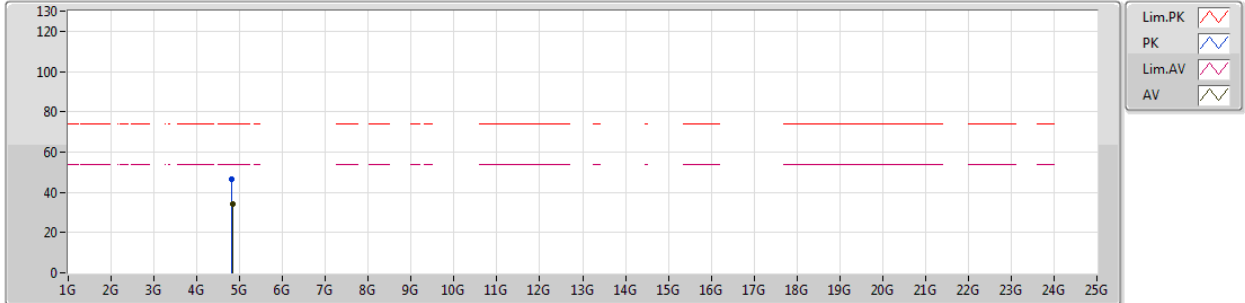
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	49.60	54.00	-4.40	30.77	3	Horizontal	67	1.04	-
AV	2.4134G	99.00	Inf	-Inf	30.86	3	Horizontal	67	1.04	-
PK	2.39G	68.63	74.00	-5.37	30.77	3	Horizontal	67	1.04	-
PK	2.4138G	109.02	Inf	-Inf	30.86	3	Horizontal	67	1.04	-



802.11n HT20\_Nss1,(MCS0)\_1TX

15/09/2018

2412MHz\_TX

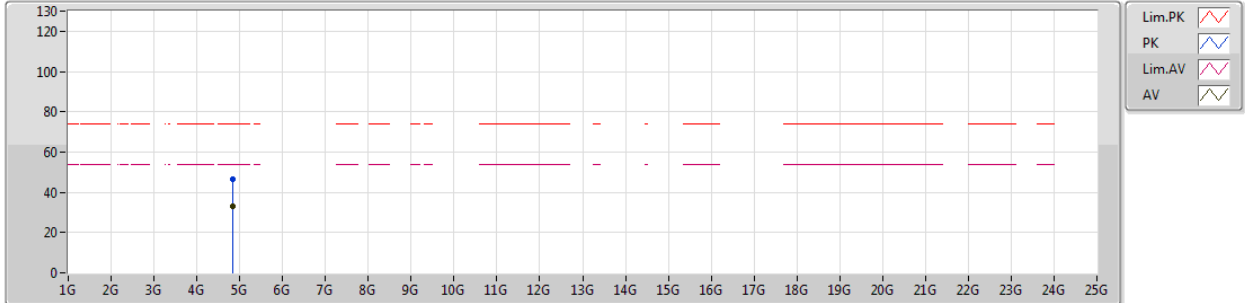


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82848G	33.99	54.00	-20.01	2.15	3	Vertical	313	1.65	-
PK	4.82294G	46.36	74.00	-27.64	2.13	3	Vertical	313	1.65	-

802.11n HT20\_Nss1,(MCS0)\_1TX

15/09/2018

2412MHz\_TX



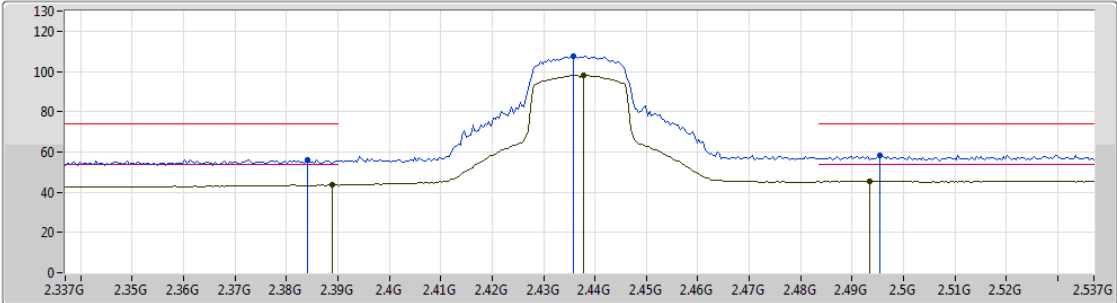
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82876G	33.19	54.00	-20.81	2.15	3	Horizontal	267	2.00	-
PK	4.82762G	46.52	74.00	-27.48	2.14	3	Horizontal	267	2.00	-



802.11n HT20\_Nss1,(MCS0)\_1TX

15/09/2018

2437MHz\_TX



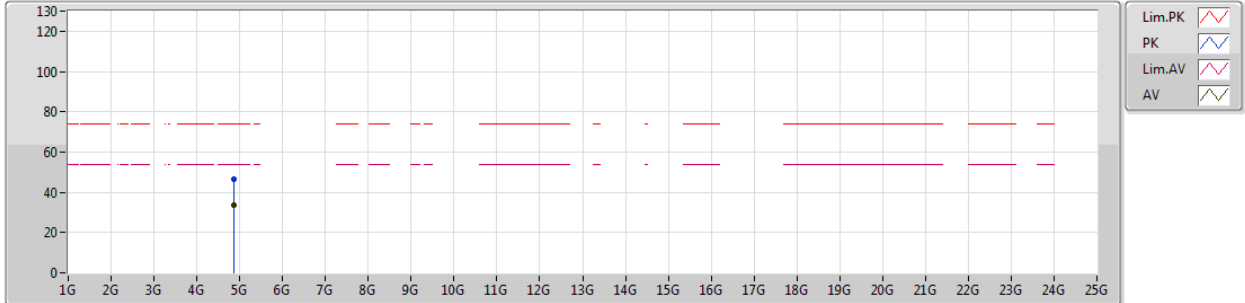
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389G	43.59	54.00	-10.41	30.77	3	Horizontal	69	1.08	-
AV	2.4378G	98.26	Inf	-Inf	30.95	3	Horizontal	69	1.08	-
AV	2.4934G	45.61	54.00	-8.39	31.14	3	Horizontal	69	1.08	-
PK	2.3842G	56.10	74.00	-17.90	30.76	3	Horizontal	69	1.08	-
PK	2.4358G	107.80	Inf	-Inf	30.94	3	Horizontal	69	1.08	-
PK	2.4954G	58.44	74.00	-15.56	31.16	3	Horizontal	69	1.08	-



802.11n HT20\_Nss1,(MCS0)\_1TX

15/09/2018

2437MHz\_TX



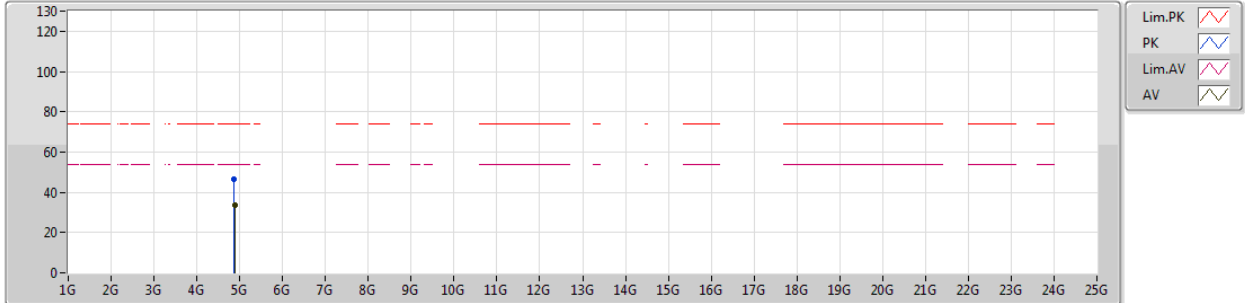
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87514G	33.75	54.00	-20.25	2.26	3	Vertical	142	1.04	-
PK	4.87408G	46.50	74.00	-27.50	2.25	3	Vertical	142	1.04	-



802.11n HT20\_Nss1,(MCS0)\_1TX

15/09/2018

2437MHz\_TX



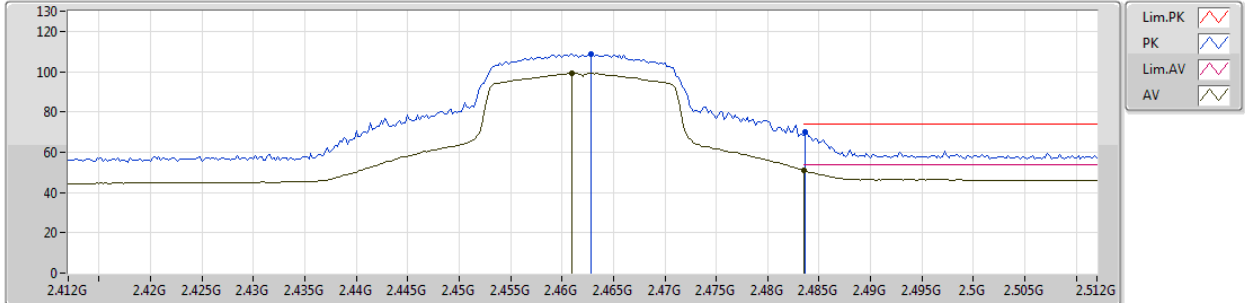
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8787G	33.85	54.00	-20.15	2.27	3	Horizontal	347	1.91	-
PK	4.87484G	46.54	74.00	-27.46	2.25	3	Horizontal	347	1.91	-



802.11n HT20\_Nss1,(MCS0)\_1TX

15/09/2018

2462MHz\_TX



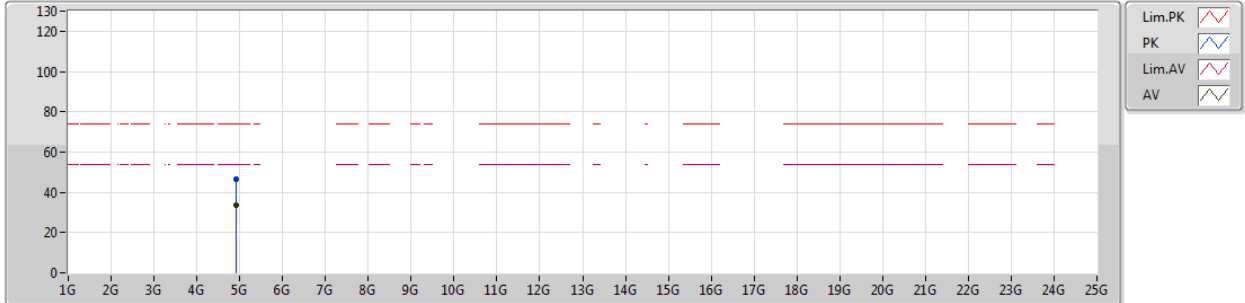
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.461G	99.18	Inf	-Inf	31.03	3	Horizontal	72	1.11	-
AV	2.4835G	50.92	54.00	-3.08	31.11	3	Horizontal	72	1.11	-
PK	2.4628G	108.88	Inf	-Inf	31.04	3	Horizontal	72	1.11	-
PK	2.4836G	70.19	74.00	-3.81	31.11	3	Horizontal	72	1.11	-



802.11n HT20\_Nss1,(MCS0)\_1TX

15/09/2018

2462MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92466G	33.76	54.00	-20.24	2.38	3	Vertical	306	2.95	-
PK	4.9222G	46.74	74.00	-27.26	2.38	3	Vertical	306	2.95	-

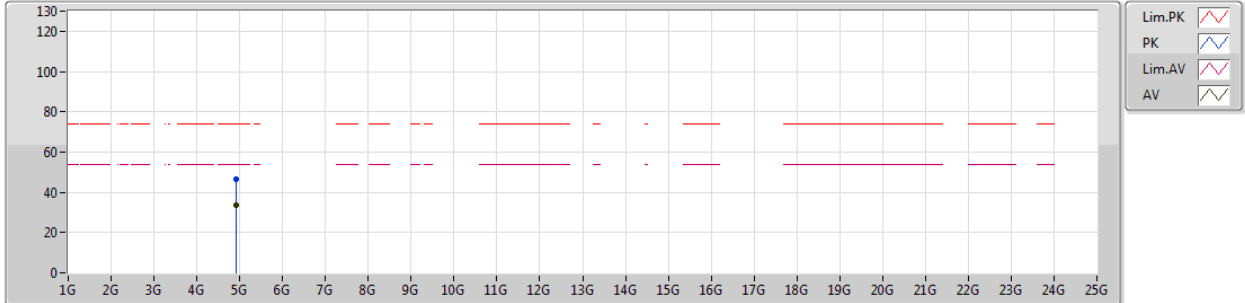




802.11n HT20\_Nss1,(MCS0)\_1TX

15/09/2018

2462MHz\_TX

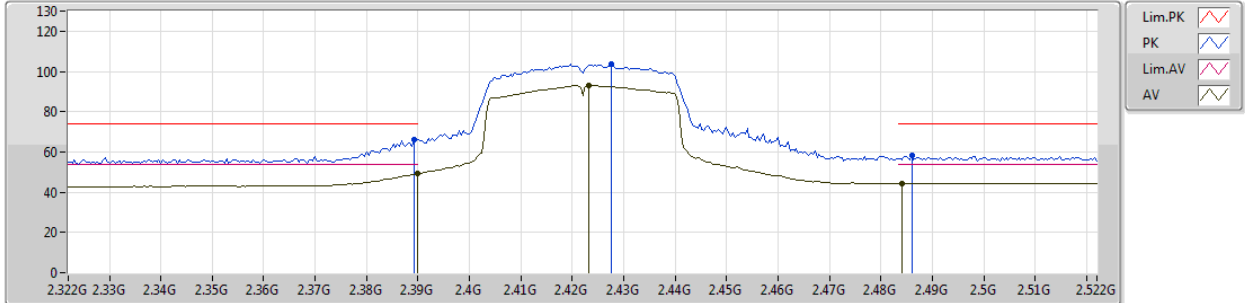


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9243G	33.49	54.00	-20.51	2.38	3	Horizontal	67	1.00	-
PK	4.92298G	46.55	74.00	-27.45	2.38	3	Horizontal	67	1.00	-

802.11n HT40\_Nss1,(MCS0)\_1TX

15/09/2018

2422MHz\_TX



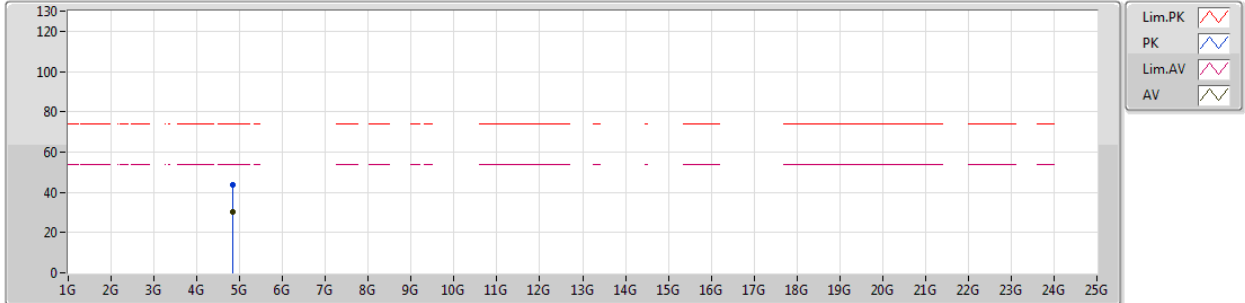
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	49.32	54.00	-4.68	30.77	3	Horizontal	278	1.02	-
AV	2.4232G	93.09	Inf	-Inf	30.89	3	Horizontal	278	1.02	-
AV	2.484G	44.42	54.00	-9.58	31.12	3	Horizontal	278	1.02	-
PK	2.3892G	66.10	74.00	-7.90	30.77	3	Horizontal	278	1.02	-
PK	2.4276G	103.48	Inf	-Inf	30.91	3	Horizontal	278	1.02	-
PK	2.486G	58.26	74.00	-15.74	31.12	3	Horizontal	278	1.02	-



802.11n HT40\_Nss1,(MCS0)\_1TX

15/09/2018

2422MHz\_TX



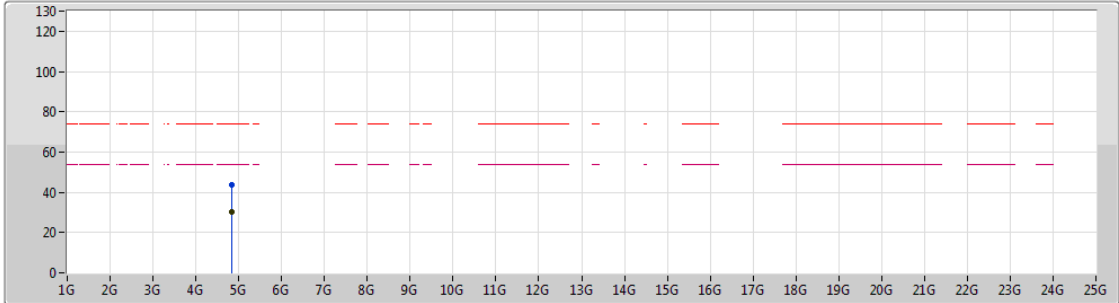
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.84402G	30.07	54.00	-23.93	2.18	3	Vertical	248	1.83	-
PK	4.84722G	43.58	74.00	-30.42	2.19	3	Vertical	248	1.83	-



802.11n HT40\_Nss1,(MCS0)\_1TX

15/09/2018

2422MHz\_TX



Lim.PK    
 PK    
 Lim.AV    
 AV

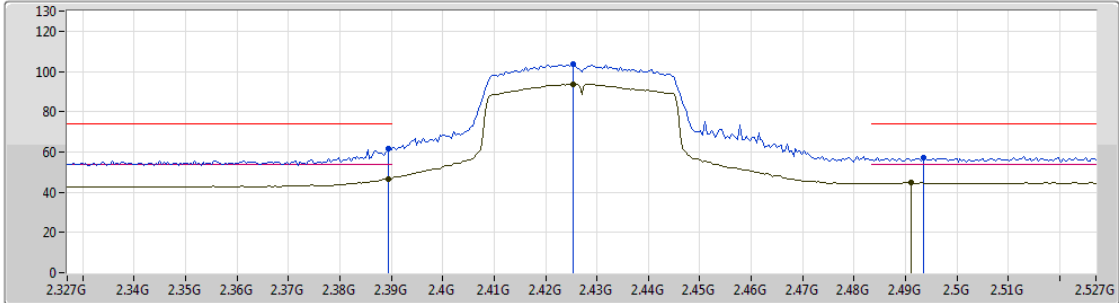
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8436G	30.21	54.00	-23.79	2.18	3	Horizontal	213	2.28	-
PK	4.8437G	43.53	74.00	-30.47	2.18	3	Horizontal	213	2.28	-



802.11n HT40\_Nss1,(MCS0)\_1TX

15/09/2018

2427MHz\_TX

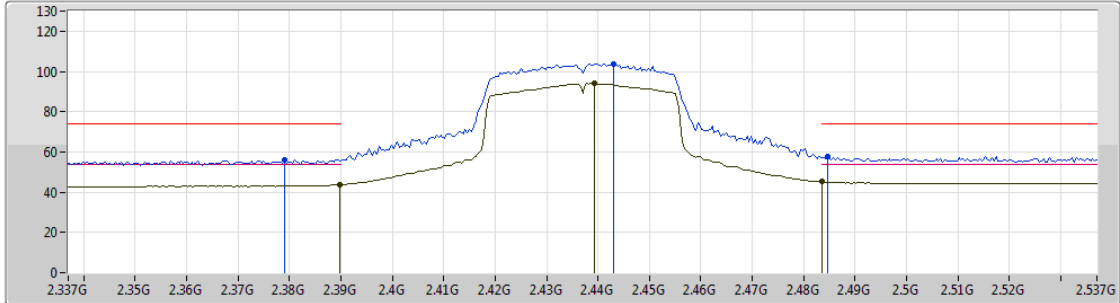


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	46.67	54.00	-7.33	30.77	3	Horizontal	69	1.04	-
AV	2.4254G	93.85	Inf	-Inf	30.90	3	Horizontal	69	1.04	-
AV	2.491G	44.69	54.00	-9.31	31.13	3	Horizontal	69	1.04	-
PK	2.3894G	61.85	74.00	-12.15	30.77	3	Horizontal	69	1.04	-
PK	2.4254G	103.63	Inf	-Inf	30.90	3	Horizontal	69	1.04	-
PK	2.4934G	57.04	74.00	-16.96	31.14	3	Horizontal	69	1.04	-

802.11n HT40\_Nss1,(MCS0)\_1TX

15/09/2018

2437MHz\_TX



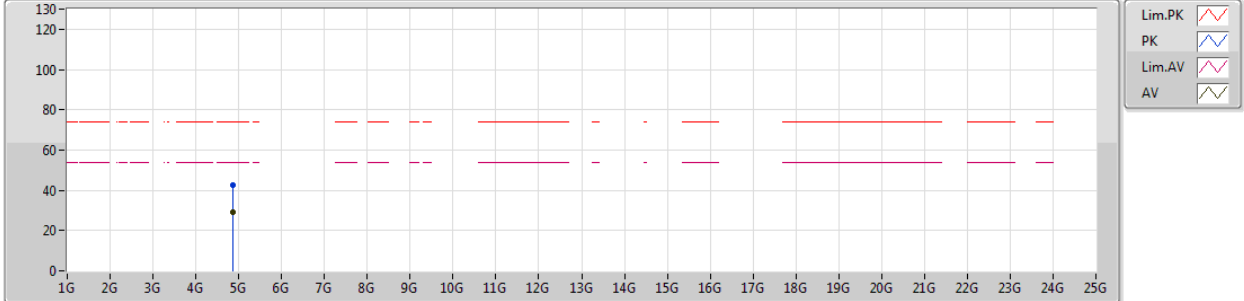
- Lim.PK
- PK
- Lim.AV
- AV

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	43.81	54.00	-10.19	30.77	3	Horizontal	275	1.05	-
AV	2.4394G	93.94	Inf	-Inf	30.95	3	Horizontal	275	1.05	-
AV	2.4835G	45.32	54.00	-8.68	31.11	3	Horizontal	275	1.05	-
PK	2.379G	56.08	74.00	-17.92	30.74	3	Horizontal	275	1.05	-
PK	2.443G	103.68	Inf	-Inf	30.96	3	Horizontal	275	1.05	-
PK	2.4846G	57.52	74.00	-16.48	31.12	3	Horizontal	275	1.05	-

802.11n HT40\_Nss1,(MCS0)\_1TX

15/09/2018

2437MHz\_TX

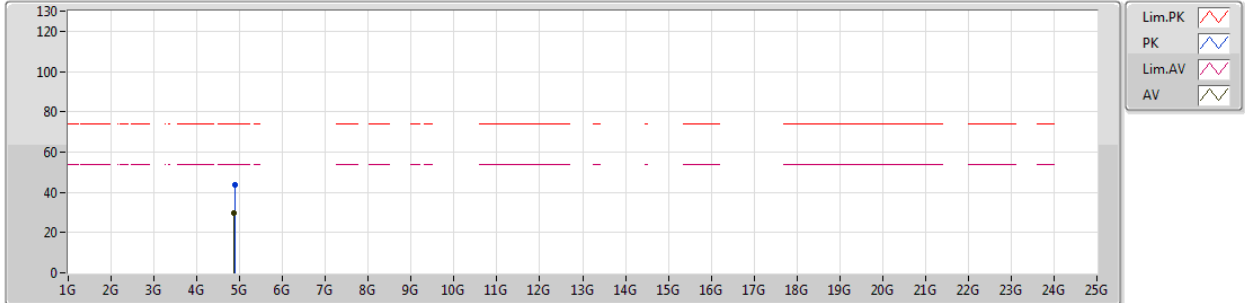


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8755G	29.37	54.00	-24.63	2.26	3	Vertical	267	1.85	-
PK	4.87638G	42.80	74.00	-31.20	2.26	3	Vertical	267	1.85	-

802.11n HT40\_Nss1,(MCS0)\_1TX

15/09/2018

2437MHz\_TX



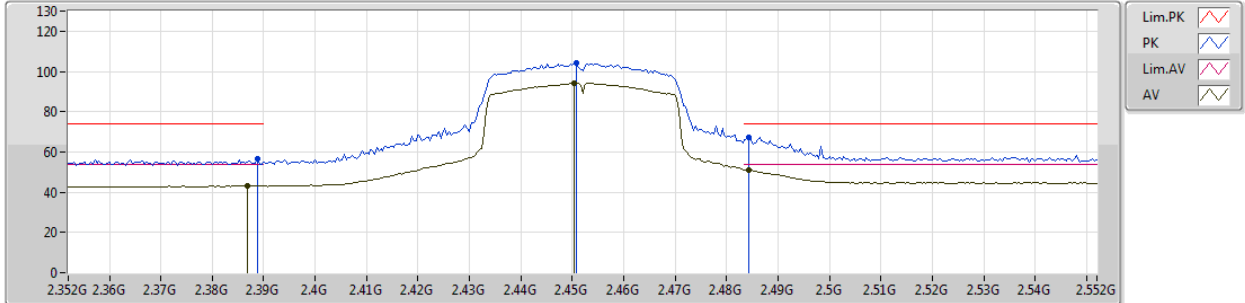
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87666G	29.42	54.00	-24.58	2.26	3	Horizontal	170	2.44	-
PK	4.87886G	43.80	74.00	-30.20	2.27	3	Horizontal	170	2.44	-



802.11n HT40\_Nss1,(MCS0)\_1TX

15/09/2018

2452MHz\_TX

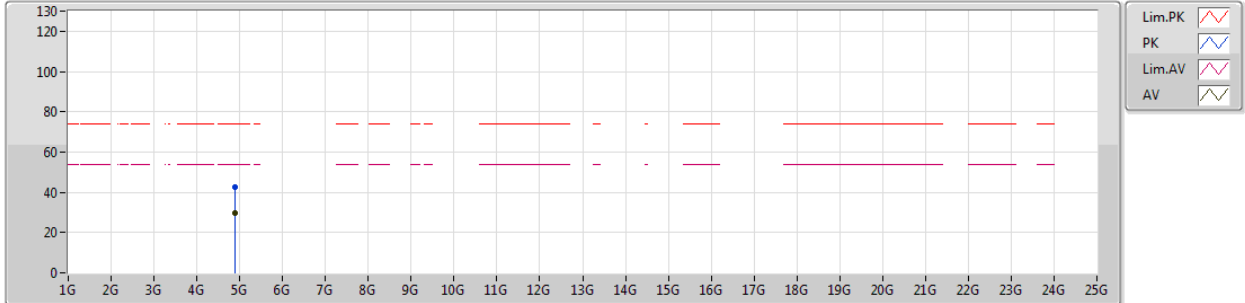


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3868G	43.10	54.00	-10.90	30.76	3	Horizontal	286	1.00	-
AV	2.4504G	94.33	Inf	-Inf	30.99	3	Horizontal	286	1.00	-
AV	2.4844G	51.12	54.00	-2.88	31.12	3	Horizontal	286	1.00	-
PK	2.3888G	56.40	74.00	-17.60	30.77	3	Horizontal	286	1.00	-
PK	2.4508G	104.23	Inf	-Inf	30.99	3	Horizontal	286	1.00	-
PK	2.4844G	67.41	74.00	-6.59	31.12	3	Horizontal	286	1.00	-

802.11n HT40\_Nss1,(MCS0)\_1TX

15/09/2018

2452MHz\_TX



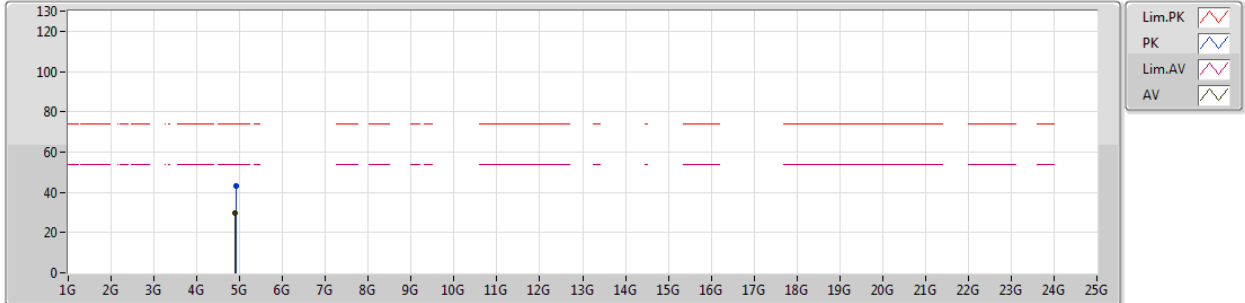
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.89922G	29.46	54.00	-24.54	2.32	3	Vertical	141	2.05	-
PK	4.8997G	42.77	74.00	-31.23	2.32	3	Vertical	141	2.05	-



802.11n HT40\_Nss1,(MCS0)\_1TX

15/09/2018

2452MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.89944G	29.60	54.00	-24.40	2.32	3	Horizontal	349	1.80	-
PK	4.90372G	43.18	74.00	-30.82	2.33	3	Horizontal	349	1.80	-