

FCC Test Report

FCC ID : RYK-WUBR507N
Equipment : 802.11abgn Wireless USB Module
Brand Name : SparkLAN
Model Name : WUBR-507N(M); WUBR-507N(MU)
Applicant : SparkLAN Communications, Inc.
8F., No.257, Sec. 2, Tiding Blvd., Neihu District, Taipei
City 11493, Taiwan
Manufacturer : SparkLAN Communications, Inc.
8F., No.257, Sec. 2, Tiding Blvd., Neihu District, Taipei
City 11493, Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Jan. 17, 2019, and testing was started from Jan. 24, 2019 and completed on Jan. 25, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-D1 Ver2.3
FCC ID: RYK-WUBR507N

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Conducted Output Power	PASS	-
3.3	15.407(a)	Peak Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: 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
5250-5350	a, n (HT20)	5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
5250-5350	n (HT40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	1TX(Port 1)
5.47-5.725GHz	802.11a	20	1TX(Port 1)
5.25-5.35GHz	802.11n HT20	20	2TX
5.47-5.725GHz	802.11n HT20	20	2TX
5.25-5.35GHz	802.11n HT40	40	2TX
5.47-5.725GHz	802.11n HT40	40	2TX

Note:

- 11a, 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	Gain (dBi)
1	1	-	-	PCB	U.FL connector	3.27

Note: 1: 802.11a only includes 1TX and Port 1 for emission.

Note: 2: 802.11n used two antennas are for signal transmitting and receiving.(2T2R Spatial Multiplexing MIMO configuration)

**Note 3: Antenna was provided by customer.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From system		
EUT Function	☐ Outdoor	☐ Indoor	
	☐ Fixed P2P	☒ Client	
Beamforming Function	☐ With beamforming	☒ Without beamforming	
TPC Function	☒ With TPC Function	☐ Without TPC Function	
Weather Band	☒ With 5600~5650MHz	☐ Without 5600~5650MHz	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.: ...		
☐	Other:		

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT20	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)

1.1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR001817-12AN

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

Modifications	Performance Checking
Adding U-NII-1 and U-NII-2A band for PCB antenna	Emission Bandwidth, Maximum Conducted Output Power , Peak Power Spectral Density, Unwanted Emissions were evaluated

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 789033 D02 v02r01
- ♦ KDB 662911 D01 v02r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Gary	23.2°C / 62%	25/Jan/2019
Radiated	03CH02-HY	Patrick	23.6°C / 53.2%	24/Jan/2019

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	110V

2.2 Test Channel Mode

Test Software	QA 1.5.8.2
Mode	PowerSetting
802.11a_Nss1,(6Mbps)_1TX	-
5260MHz	06
5300MHz	07
5320MHz	07
5500MHz	08
5580MHz	09
5700MHz	0A
802.11n HT20_Nss1,(MCS0)_2TX	-
5260MHz	04,04
5300MHz	04,04
5320MHz	04,04
5500MHz	04,04
5580MHz	05,05
5700MHz	06,06
802.11n HT40_Nss1,(MCS0)_2TX	-
5270MHz	04,04
5310MHz	04,04
5510MHz	05,05
5550MHz	05,05
5670MHz	06,06

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density
Test Condition	Conducted measurement at transmit chains

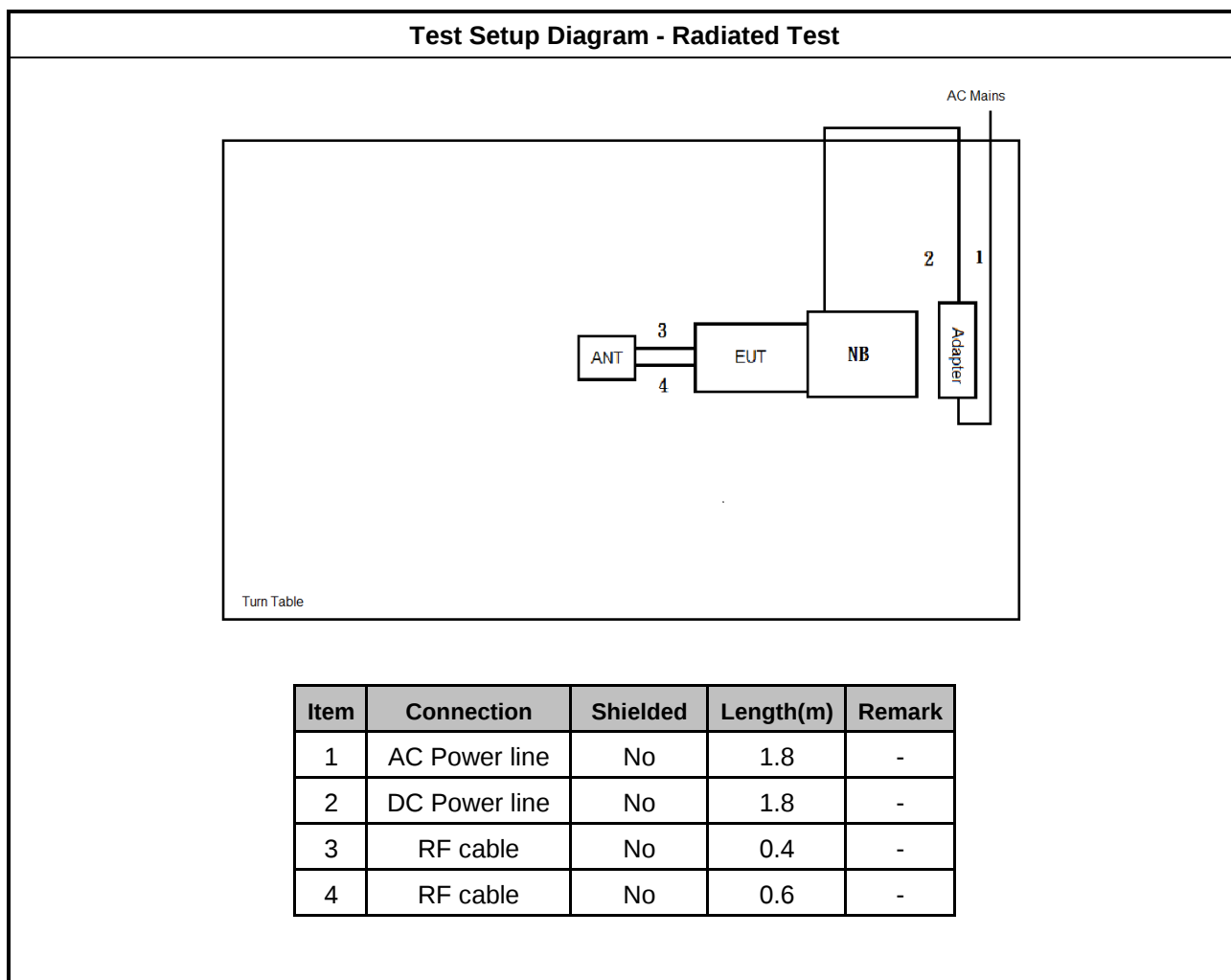
The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest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

2.4 Support Equipment

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

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	PP13S	-
2	AC Adapter	DELL	LA90PM111	-

2.5 Test Setup Diagram



3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☐	For the 5.15-5.25 GHz band, N/A
☒	For the 5.25-5.35 GHz band, N/A
☒	For the 5.47-5.725 GHz band, N/A
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

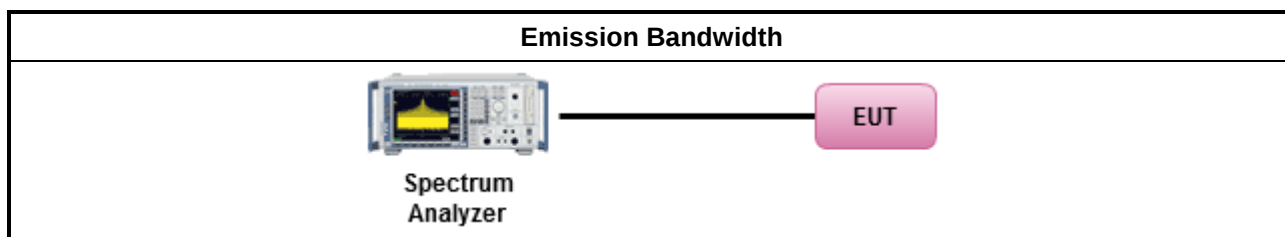
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☐ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

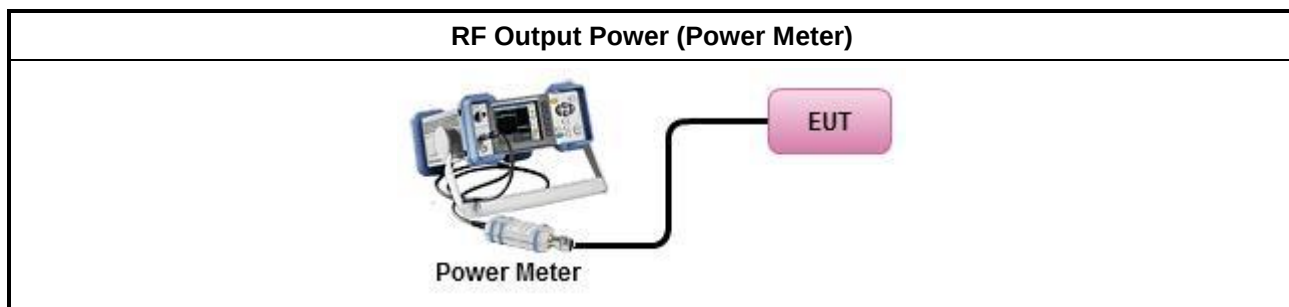
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
Maximum Conducted Output Power	
	Duty cycle $\geq 98\%$
☐	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
☐	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as KDB 789033, clause E Method PM (using an RF average power meter).
For conducted measurement.	
	If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	If multiple transmit chains, EIRP calculation could be following as methods: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.3 Peak Power Spectral Density

3.3.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☐ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☒	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☒	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that the same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

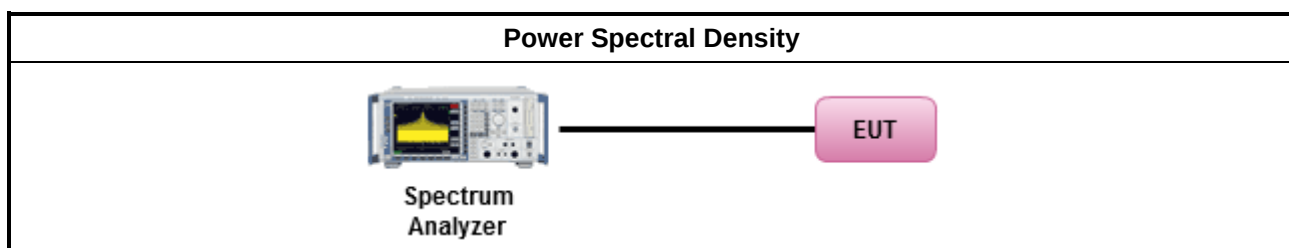
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐ Refer as KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
Duty cycle ≥ 98%	
☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).	
Duty cycle < 98%	
☒ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☐ Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.4 Unwanted Emissions

3.4.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz 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.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

Note 1: 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).

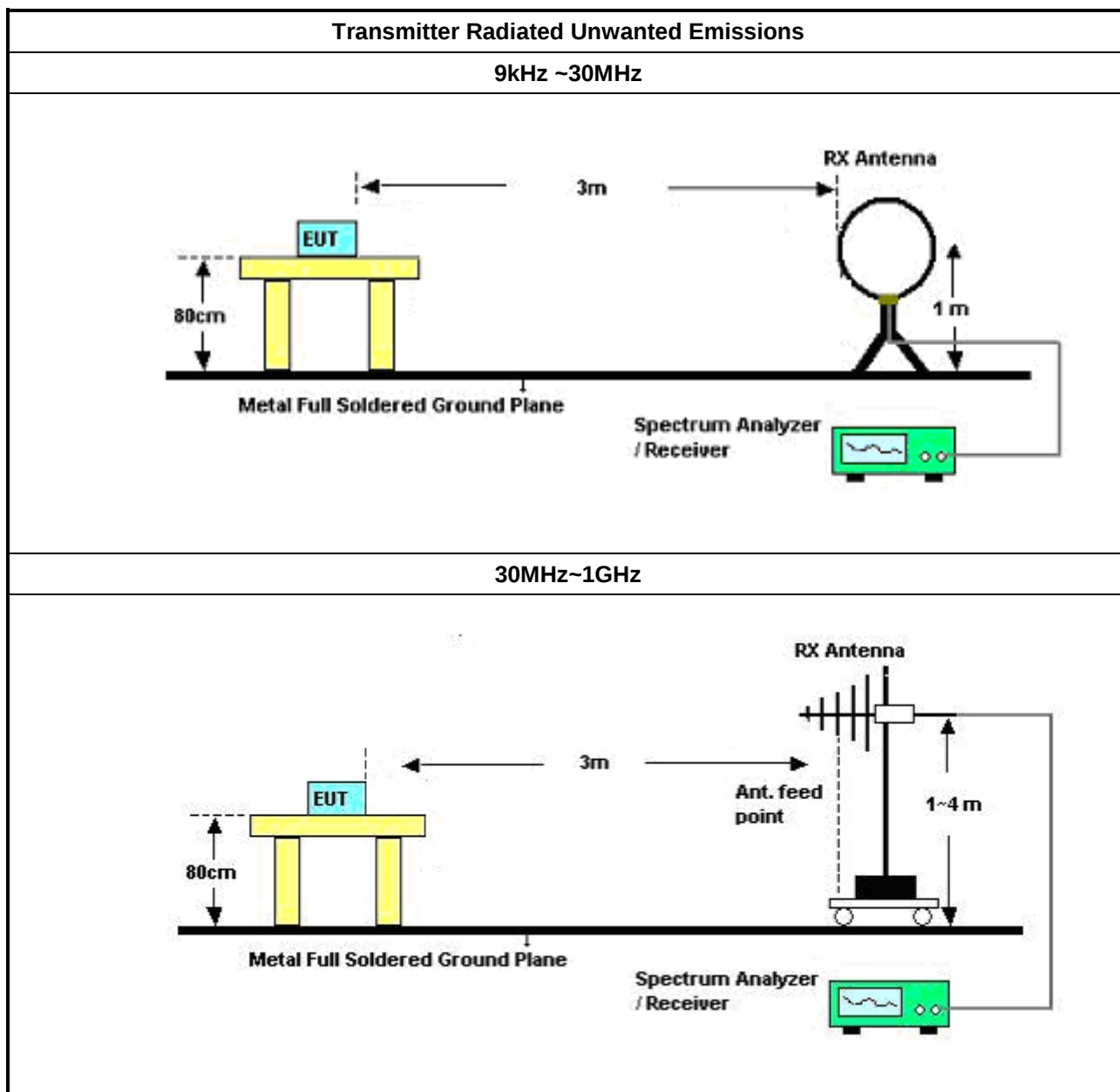
3.4.2 Measuring Instruments

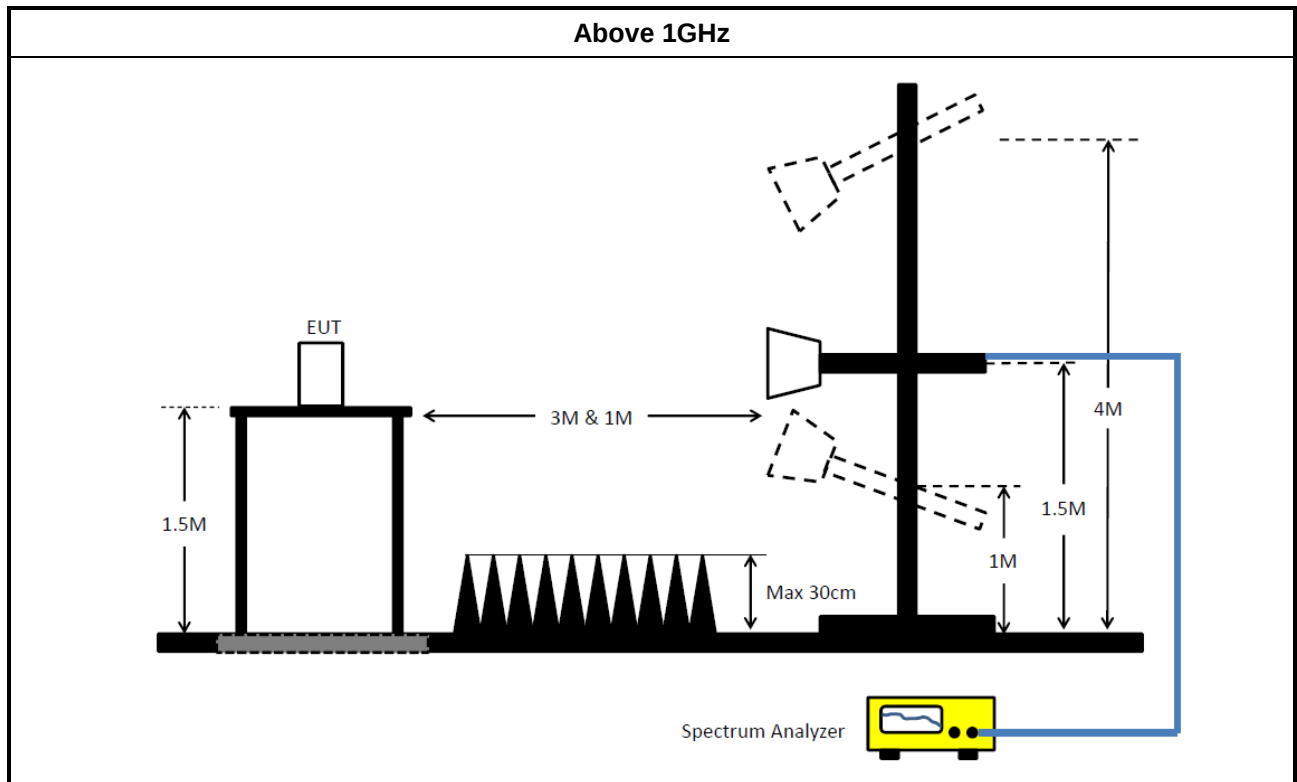
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
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. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. 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).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☒ Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
	☒ Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.4.4 Test Setup





3.4.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.4.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.5 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	05/Feb/2018	04/Feb/2019
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.5m	HUBER	MY39470/4	RF Cable - 29	30MHz ~18G	10/Jan/2019	09/Jan/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	25/Oct/2018	24/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	25/Oct/2018	24/Oct/2019
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	27Jul/2018	02/Jul/2019
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	23/Oct/2018	22/Oct/2019
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40GHz	18/Jul/2018	17/Jul/2019
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	10/Apr/2018	09/Apr/2019
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	18/Jan/2019	17/Jan/2020
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	18/Jan/2019	17/Jan/2020
Bilog Antenna	SCHAFFNER	CBL 6112B	2723	30MHz ~ 1GHz	13/Oct/2018	12/Oct/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019
Broadband Horn Antenna	SCHWARZBEC K	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	12/Mar/2018	11/Mar/2019
Double Ridged Guide Horn Antenna	SCHWARZBEC K	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	11/May/2018	10/May/2019

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	20.35M	16.442M	16M4D1D	19.6M	16.417M
802.11n HT20_Nss1,(MCS0)_2TX	20.525M	17.566M	17M6D1D	19.825M	17.441M
802.11n HT40_Nss1,(MCS0)_2TX	41M	35.982M	36M0D1D	40.5M	35.832M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	20.375M	16.417M	16M4D1D	19.6M	16.392M
802.11n HT20_Nss1,(MCS0)_2TX	20.4M	17.541M	17M5D1D	19.775M	17.441M
802.11n HT40_Nss1,(MCS0)_2TX	40.8M	36.032M	36M0D1D	40.55M	35.882M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

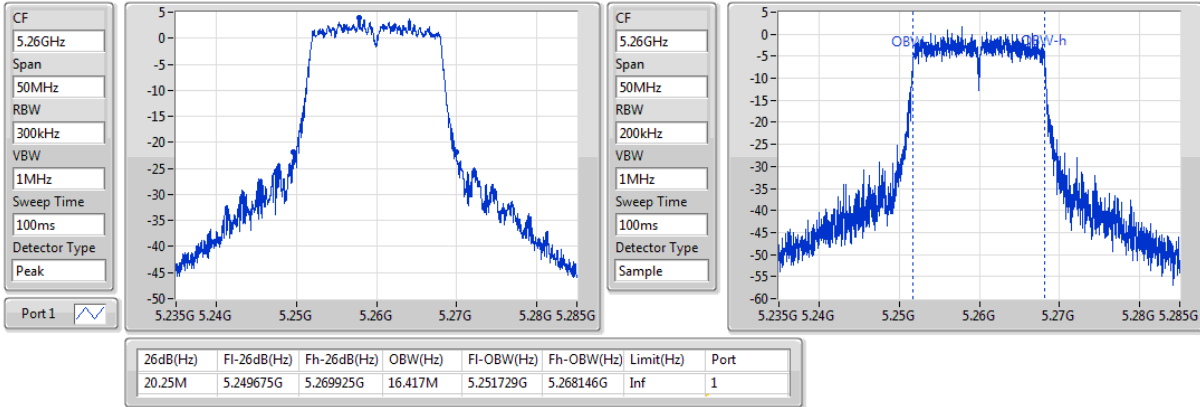
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5260MHz	Pass	Inf	20.25M	16.417M		
5300MHz	Pass	Inf	19.6M	16.417M		
5320MHz	Pass	Inf	20.35M	16.442M		
5500MHz	Pass	Inf	19.625M	16.417M		
5580MHz	Pass	Inf	19.6M	16.392M		
5700MHz	Pass	Inf	20.375M	16.417M		
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	19.95M	17.491M	20.525M	17.516M
5300MHz	Pass	Inf	19.85M	17.491M	19.825M	17.441M
5320MHz	Pass	Inf	20M	17.491M	20.4M	17.566M
5500MHz	Pass	Inf	19.775M	17.441M	19.875M	17.466M
5580MHz	Pass	Inf	20M	17.466M	19.975M	17.516M
5700MHz	Pass	Inf	20.35M	17.516M	20.4M	17.541M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	40.75M	35.882M	40.7M	35.832M
5310MHz	Pass	Inf	40.5M	35.982M	41M	35.932M
5510MHz	Pass	Inf	40.8M	36.032M	40.75M	35.882M
5550MHz	Pass	Inf	40.65M	35.882M	40.55M	35.982M
5670MHz	Pass	Inf	40.75M	35.982M	40.75M	35.932M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

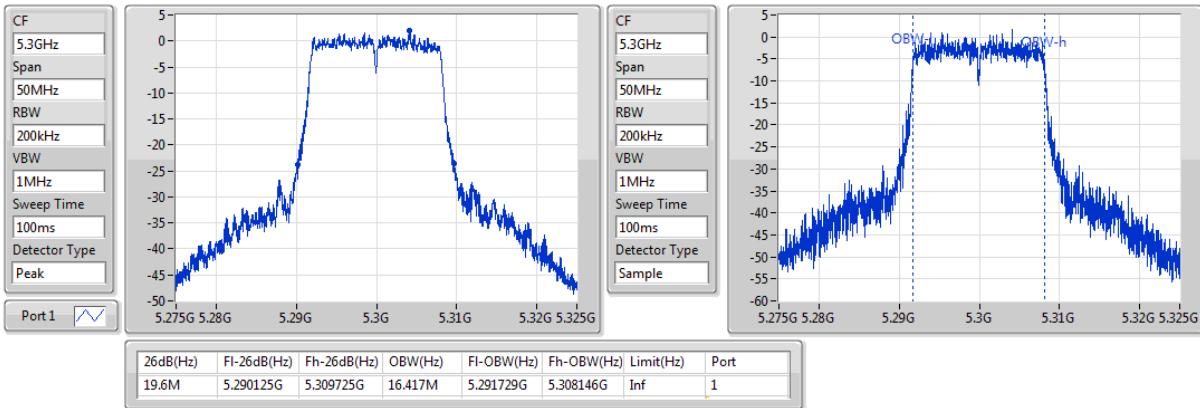
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX
EBW
5260MHz

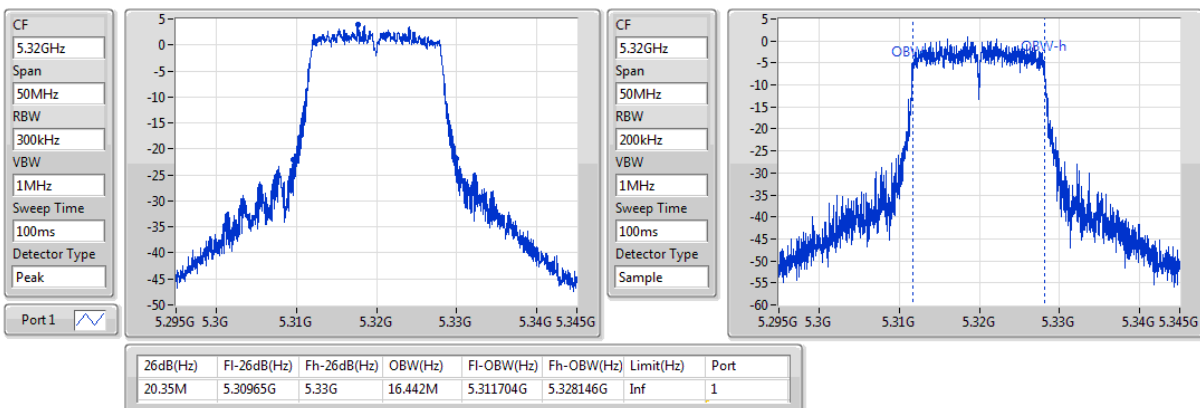
25/01/2019


802.11a_Nss1,(6Mbps)_1TX
EBW
5300MHz

25/01/2019

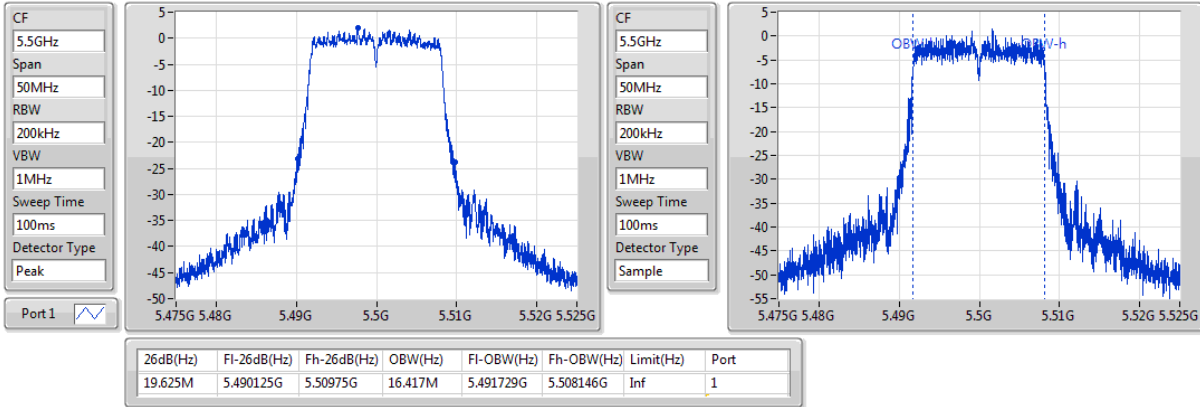

802.11a_Nss1,(6Mbps)_1TX
EBW
5320MHz

25/01/2019

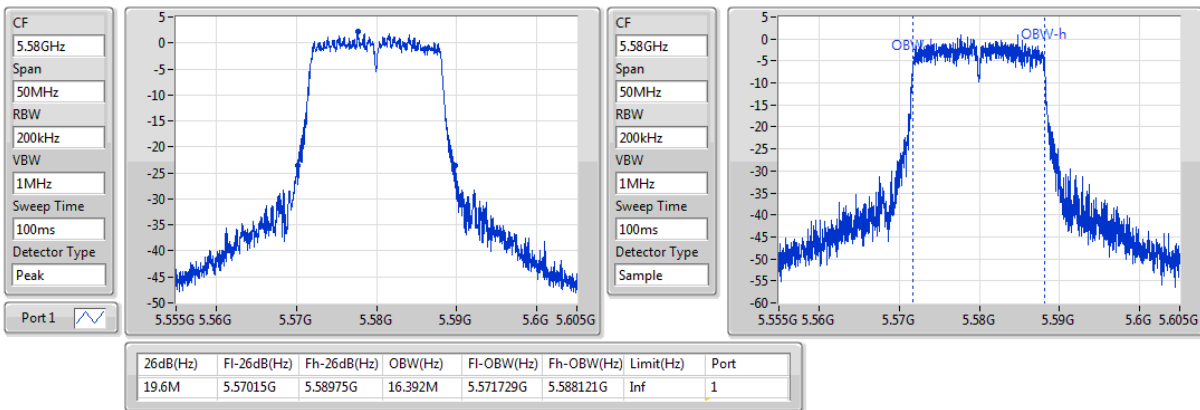


802.11a_Nss1,(6Mbps)_1TX
EBW
5500MHz

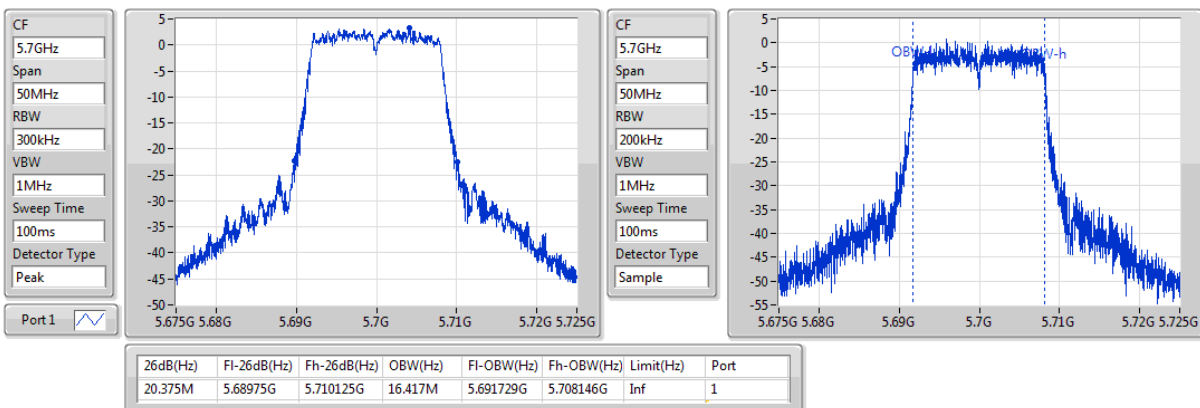
25/01/2019


802.11a_Nss1,(6Mbps)_1TX
EBW
5580MHz

25/01/2019


802.11a_Nss1,(6Mbps)_1TX
EBW
5700MHz

25/01/2019

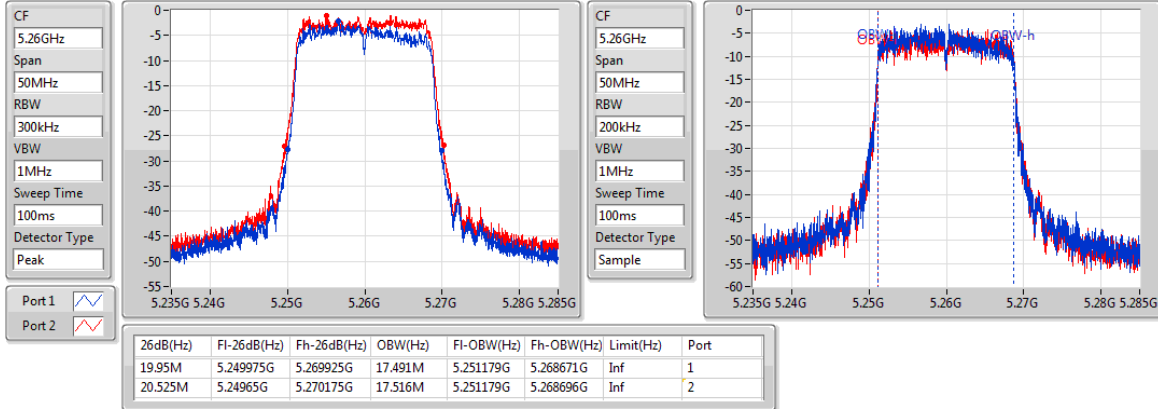


802.11n HT20_Nss1,(MCS0)_2TX

EBW

5260MHz

25/01/2019

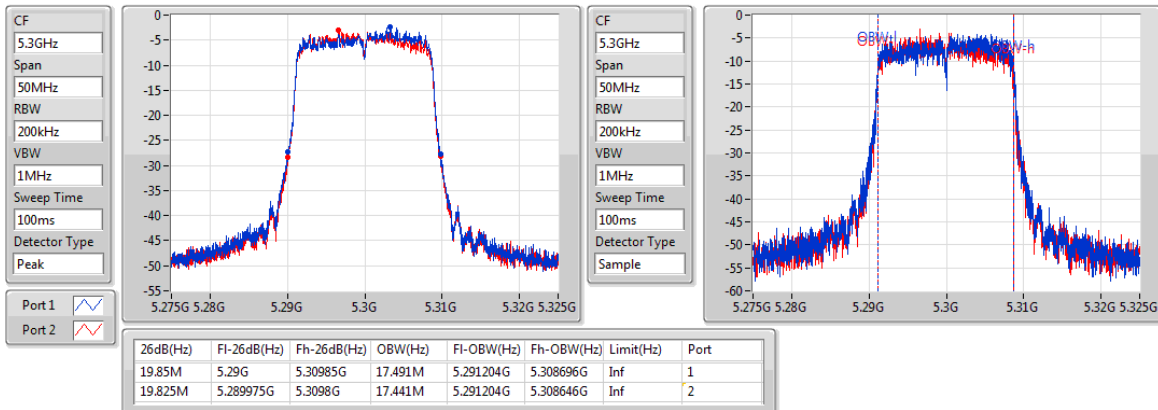


802.11n HT20_Nss1,(MCS0)_2TX

EBW

5300MHz

25/01/2019

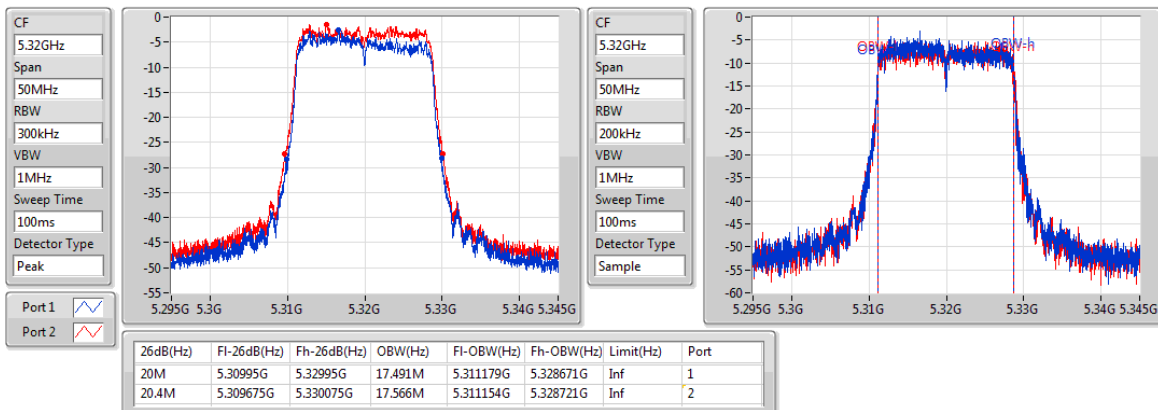


802.11n HT20_Nss1,(MCS0)_2TX

EBW

5320MHz

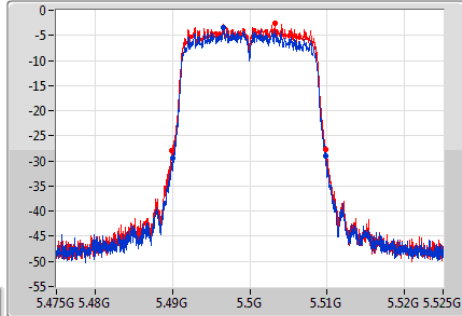
25/01/2019



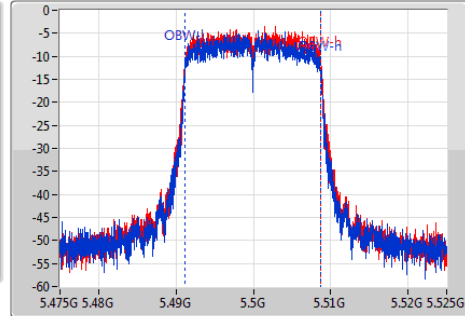
802.11n HT20_Nss1,(MCS0)_2TX
EBW
5500MHz

25/01/2019

CF
5.5GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



CF
5.5GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample

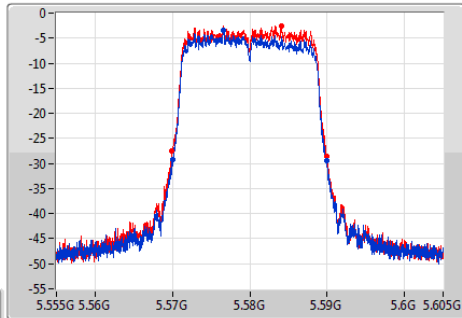


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.775M	5.490025G	5.5098G	17.441M	5.491204G	5.508646G	Inf	1
19.875M	5.48995G	5.509825G	17.466M	5.491204G	5.508671G	Inf	2

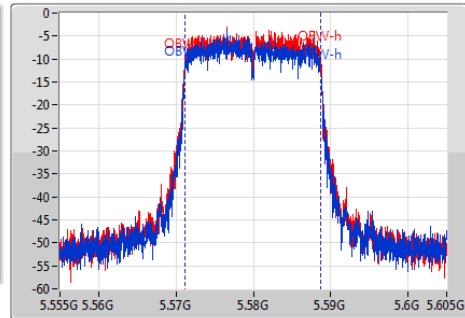
802.11n HT20_Nss1,(MCS0)_2TX
EBW
5580MHz

25/01/2019

CF
5.58GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



CF
5.58GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample

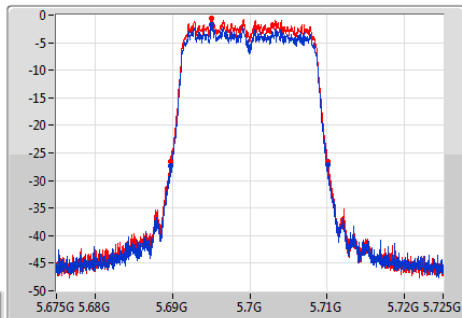


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20M	5.569975G	5.589975G	17.466M	5.571204G	5.588671G	Inf	1
19.975M	5.56995G	5.589925G	17.516M	5.571179G	5.588696G	Inf	2

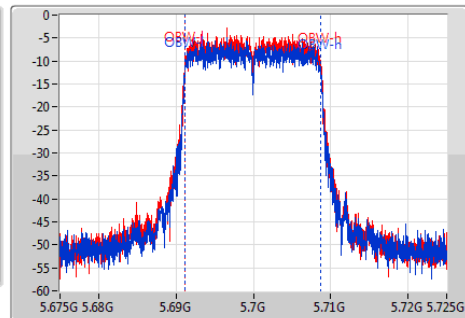
802.11n HT20_Nss1,(MCS0)_2TX
EBW
5700MHz

25/01/2019

CF
5.7GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



CF
5.7GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample

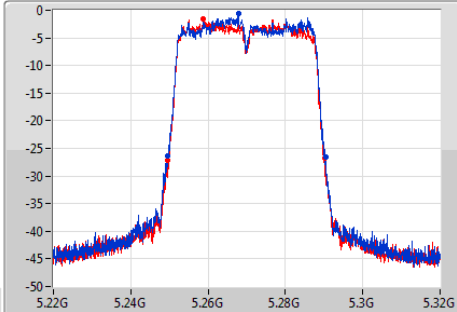


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.35M	5.689775G	5.710125G	17.516M	5.691179G	5.708696G	Inf	1
20.4M	5.6897G	5.7101G	17.541M	5.691179G	5.708721G	Inf	2

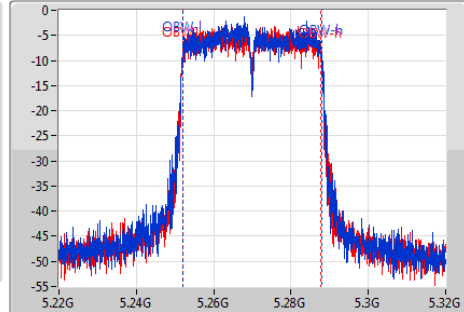
802.11n HT40_Nss1,(MCS0)_2TX
EBW
5270MHz

25/01/2019

CF
5.27GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



CF
5.27GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample
Port 1
Port 2

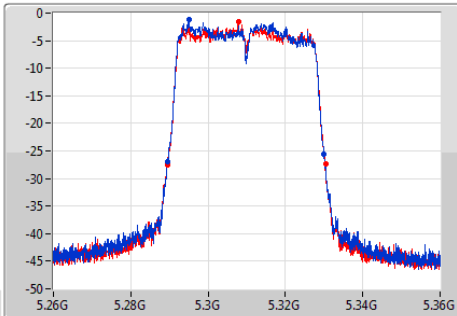


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.75M	5.2496G	5.29035G	35.882M	5.252009G	5.287891G	Inf	1
40.7M	5.2495G	5.2902G	35.832M	5.251959G	5.287791G	Inf	2

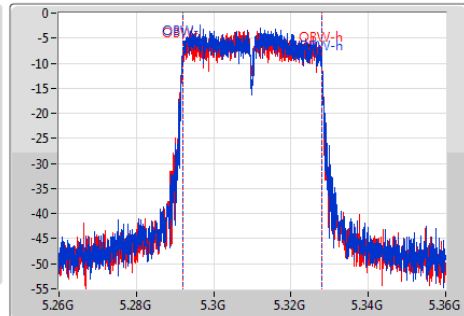
802.11n HT40_Nss1,(MCS0)_2TX
EBW
5310MHz

25/01/2019

CF
5.31GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



CF
5.31GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample
Port 1
Port 2

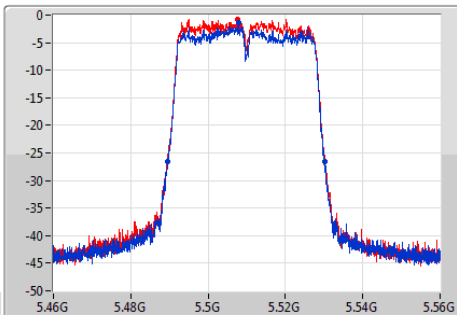


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.5M	5.28955G	5.33005G	35.982M	5.291909G	5.327891G	Inf	1
41M	5.2894G	5.3304G	35.932M	5.291959G	5.327891G	Inf	2

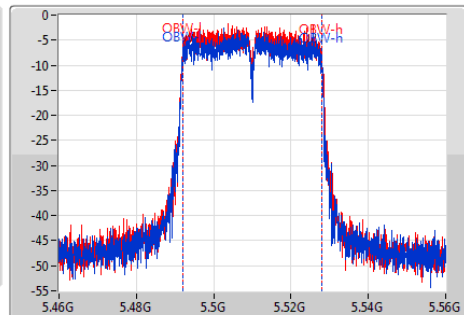
802.11n HT40_Nss1,(MCS0)_2TX
EBW
5510MHz

25/01/2019

CF
5.51GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



CF
5.51GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample
Port 1
Port 2



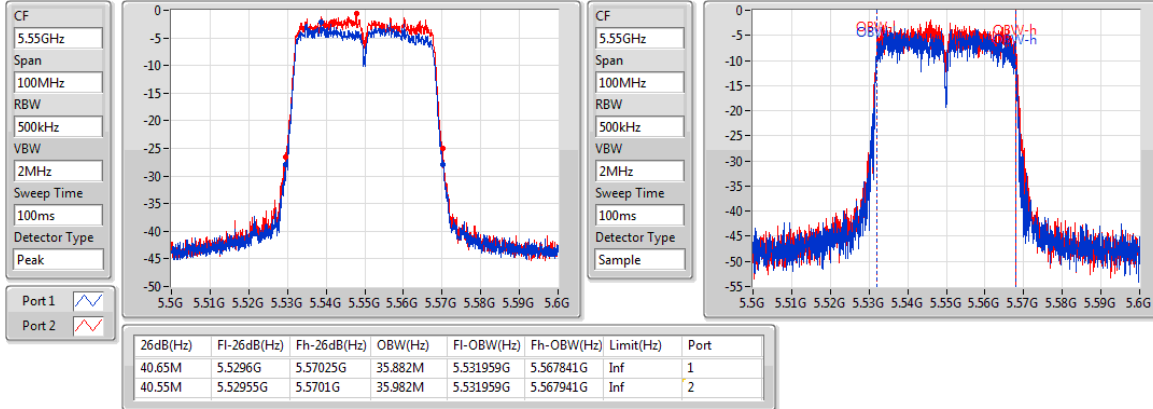
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.8M	5.48945G	5.53025G	36.032M	5.491909G	5.527941G	Inf	1
40.75M	5.48945G	5.5302G	35.882M	5.491959G	5.527841G	Inf	2

802.11n HT40_Nss1,(MCS0)_2TX

EBW

5550MHz

25/01/2019

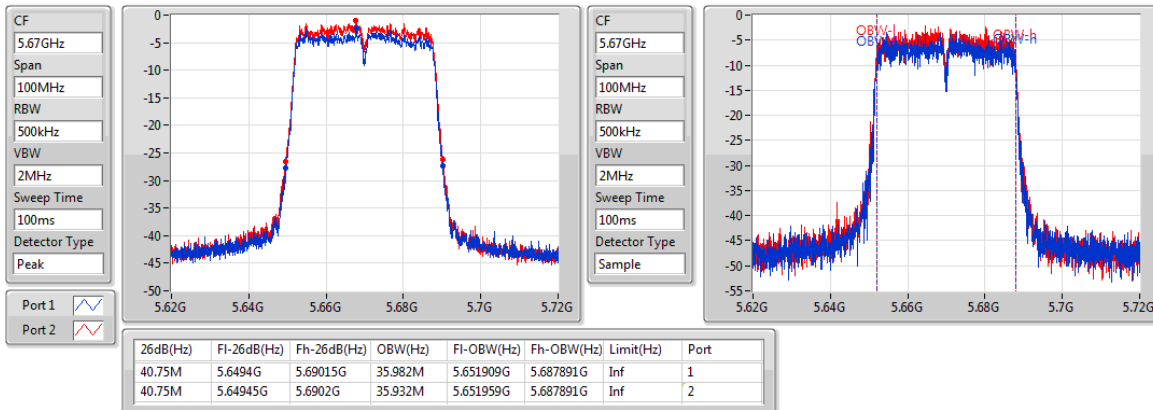


802.11n HT40_Nss1,(MCS0)_2TX

EBW

5670MHz

25/01/2019



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	12.99	0.01991	16.26	0.04227
802.11n HT20_Nss1,(MCS0)_2TX	11.99	0.01581	15.26	0.03357
802.11n HT40_Nss1,(MCS0)_2TX	11.96	0.01570	15.23	0.03334
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	12.99	0.01991	16.26	0.04227
802.11n HT20_Nss1,(MCS0)_2TX	11.56	0.01432	14.83	0.03041
802.11n HT40_Nss1,(MCS0)_2TX	11.97	0.01574	15.24	0.03342

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-
5260MHz	Pass	3.27	12.91		12.91	24.00	16.18	30.00
5300MHz	Pass	3.27	12.99		12.99	24.00	16.26	30.00
5320MHz	Pass	3.27	12.76		12.76	24.00	16.03	30.00
5500MHz	Pass	3.27	12.89		12.89	24.00	16.16	30.00
5580MHz	Pass	3.27	12.98		12.98	24.00	16.25	30.00
5700MHz	Pass	3.27	12.99		12.99	24.00	16.26	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	3.27	9.20	8.74	11.99	24.00	15.26	30.00
5300MHz	Pass	3.27	8.84	8.65	11.76	24.00	15.03	30.00
5320MHz	Pass	3.27	8.68	8.33	11.52	24.00	14.79	30.00
5500MHz	Pass	3.27	7.88	9.09	11.54	24.00	14.81	30.00
5580MHz	Pass	3.27	7.75	9.19	11.54	24.00	14.81	30.00
5700MHz	Pass	3.27	7.80	9.19	11.56	24.00	14.83	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	3.27	9.08	8.82	11.96	24.00	15.23	30.00
5310MHz	Pass	3.27	8.79	8.41	11.61	24.00	14.88	30.00
5510MHz	Pass	3.27	8.23	9.58	11.97	24.00	15.24	30.00
5550MHz	Pass	3.27	7.97	9.34	11.72	24.00	14.99	30.00
5670MHz	Pass	3.27	7.99	9.36	11.74	24.00	15.01	30.00

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

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	0.17	3.44
802.11n HT20_Nss1,(MCS0)_2TX	-1.22	5.06
802.11n HT40_Nss1,(MCS0)_2TX	-4.23	2.05
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	0.16	3.43
802.11n HT20_Nss1,(MCS0)_2TX	-1.49	4.79
802.11n HT40_Nss1,(MCS0)_2TX	-3.95	2.33

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-
5260MHz	Pass	3.27	-0.09		-0.09	11.00	3.18	17.00
5300MHz	Pass	3.27	0.17		0.17	11.00	3.44	17.00
5320MHz	Pass	3.27	-0.21		-0.21	11.00	3.06	17.00
5500MHz	Pass	3.27	0.16		0.16	11.00	3.43	17.00
5580MHz	Pass	3.27	-0.01		-0.01	11.00	3.26	17.00
5700MHz	Pass	3.27	-0.13		-0.13	11.00	3.14	17.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	6.28	-3.46	-4.48	-1.22	10.72	5.06	17.00
5300MHz	Pass	6.28	-4.10	-4.09	-1.39	10.72	4.89	17.00
5320MHz	Pass	6.28	-3.86	-5.09	-1.62	10.72	4.66	17.00
5500MHz	Pass	6.28	-4.82	-3.96	-1.49	10.72	4.79	17.00
5580MHz	Pass	6.28	-4.73	-3.92	-1.56	10.72	4.72	17.00
5700MHz	Pass	6.28	-5.35	-4.11	-2.01	10.72	4.27	17.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	6.28	-6.42	-7.30	-4.23	10.72	2.05	17.00
5310MHz	Pass	6.28	-6.90	-7.05	-4.49	10.72	1.79	17.00
5510MHz	Pass	6.28	-7.38	-6.32	-3.95	10.72	2.33	17.00
5550MHz	Pass	6.28	-7.95	-6.67	-4.55	10.72	1.73	17.00
5670MHz	Pass	6.28	-8.10	-6.70	-4.59	10.72	1.69	17.00

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

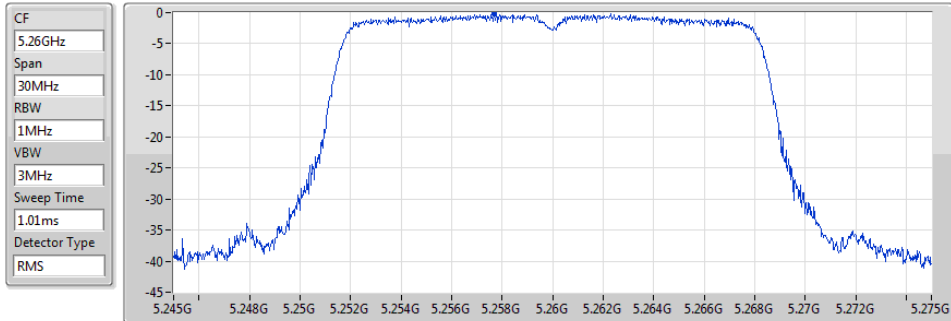
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11a_Nss1,(6Mbps)_1TX

PSD

5260MHz

25/01/2019



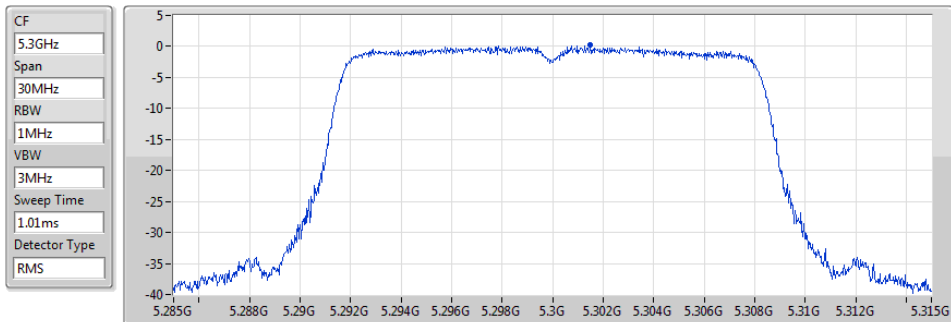
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.09	-0.09	-0.09

802.11a_Nss1,(6Mbps)_1TX

PSD

5300MHz

25/01/2019



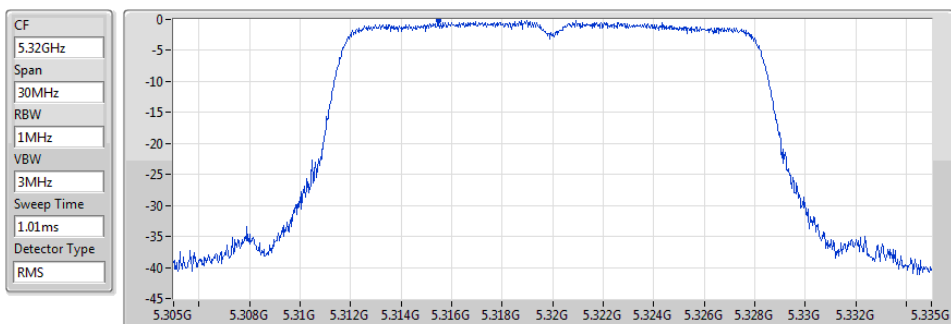
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.17	0.17	0.17

802.11a_Nss1,(6Mbps)_1TX

PSD

5320MHz

25/01/2019



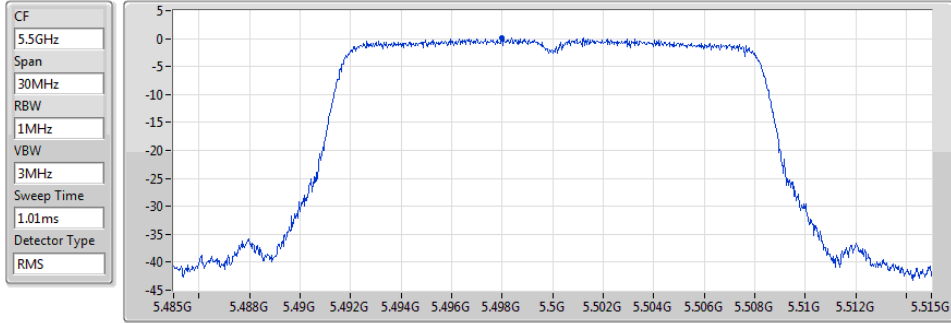
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.21	-0.21	-0.21

802.11a_Nss1,(6Mbps)_1TX

PSD

5500MHz

25/01/2019



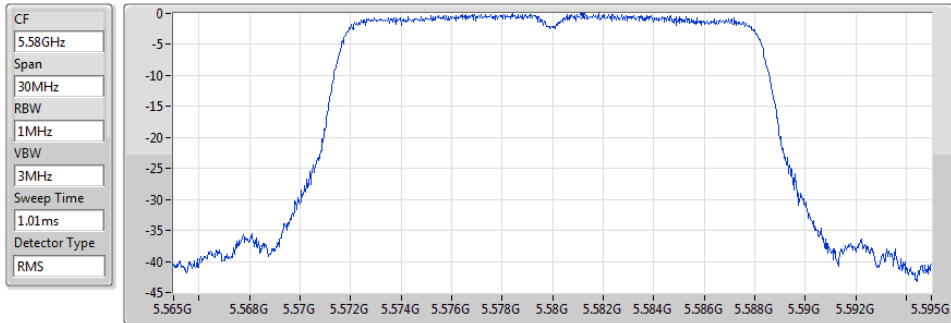
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.16	0.16	0.16

802.11a_Nss1,(6Mbps)_1TX

PSD

5580MHz

25/01/2019



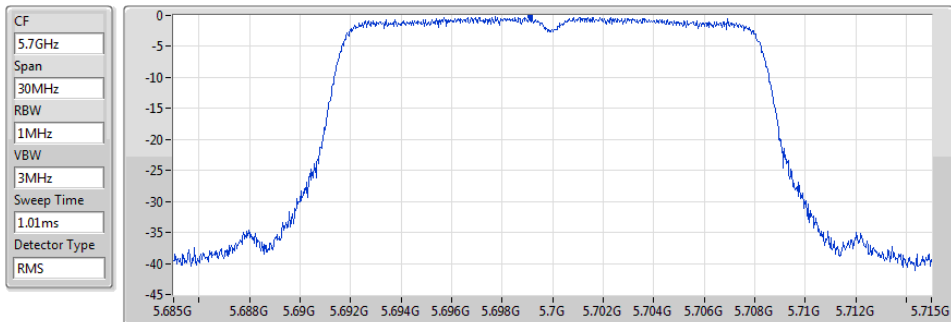
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-0.01	-0.01	-0.01

802.11a_Nss1,(6Mbps)_1TX

PSD

5700MHz

25/01/2019



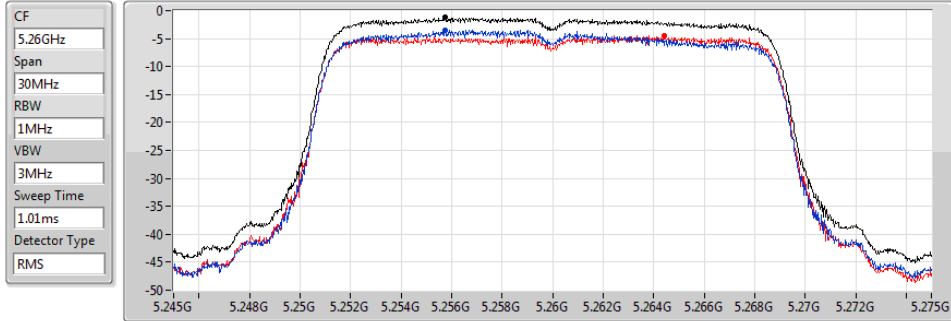
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-0.13	-0.13	-0.13

802.11n HT20_Nss1,(MCS0)_2TX

PSD

5260MHz

25/01/2019



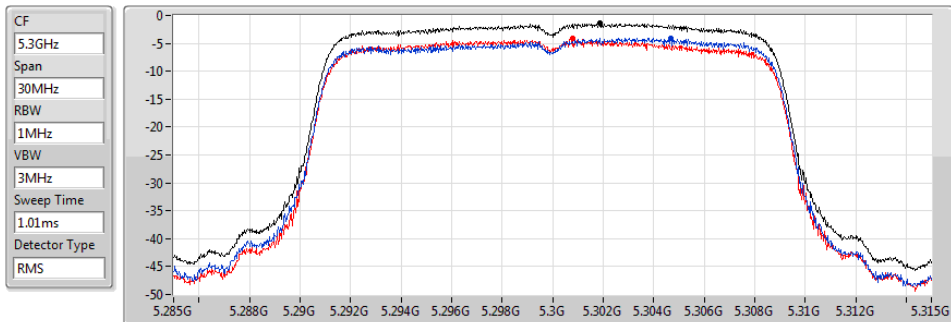
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-1.22	-1.22	-3.46	-4.48

802.11n HT20_Nss1,(MCS0)_2TX

PSD

5300MHz

25/01/2019



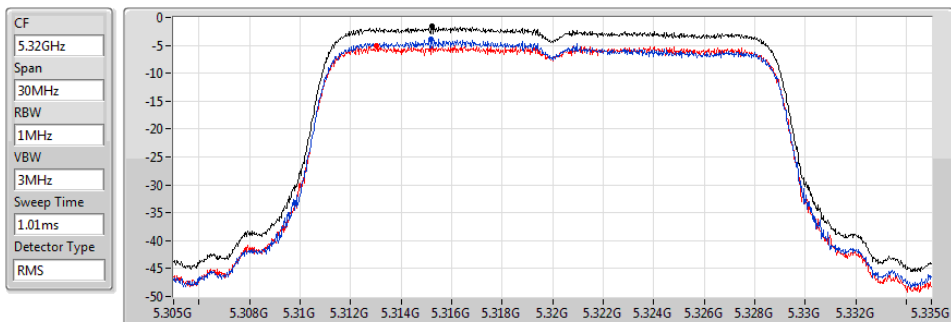
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-1.39	-1.39	-4.10	-4.09

802.11n HT20_Nss1,(MCS0)_2TX

PSD

5320MHz

25/01/2019



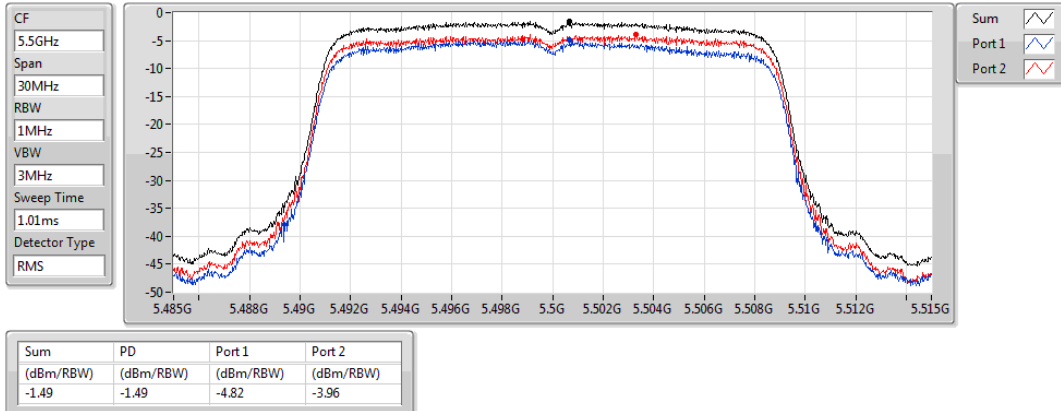
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-1.62	-1.62	-3.86	-5.09

802.11n HT20_Nss1,(MCS0)_2TX

PSD

5500MHz

25/01/2019

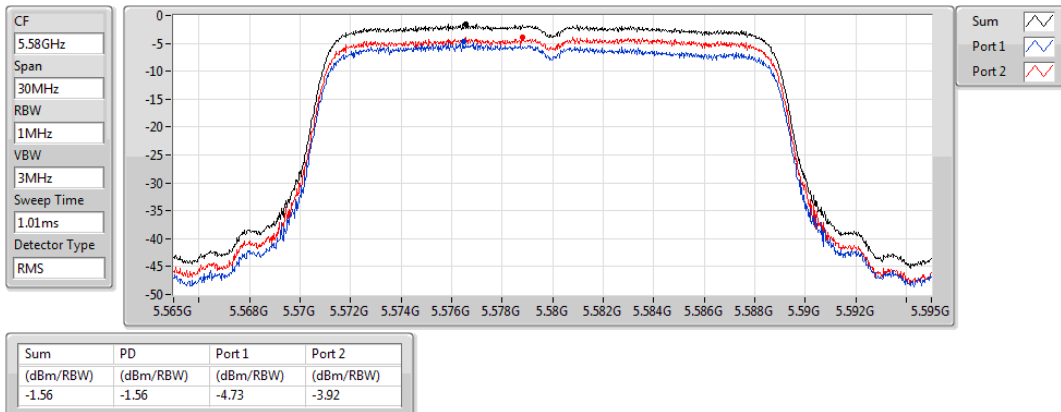


802.11n HT20_Nss1,(MCS0)_2TX

PSD

5580MHz

25/01/2019

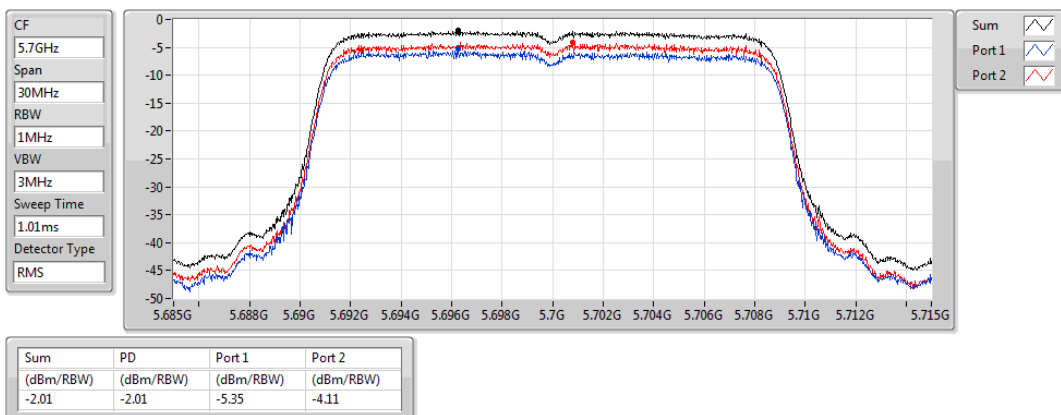


802.11n HT20_Nss1,(MCS0)_2TX

PSD

5700MHz

25/01/2019

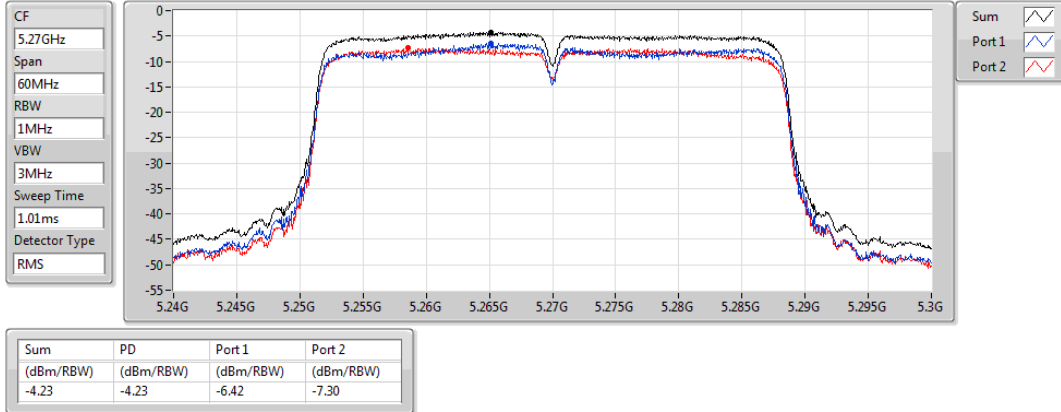


802.11n HT40_Nss1,(MCS0)_2TX

PSD

5270MHz

25/01/2019

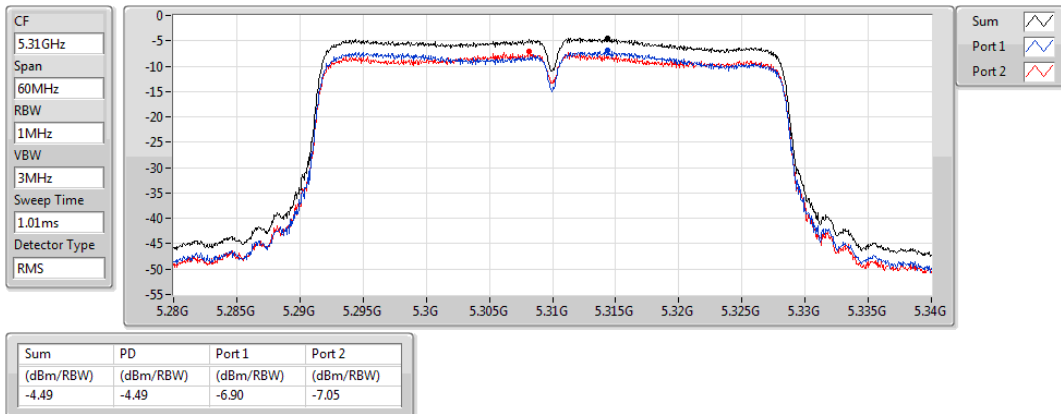


802.11n HT40_Nss1,(MCS0)_2TX

PSD

5310MHz

25/01/2019

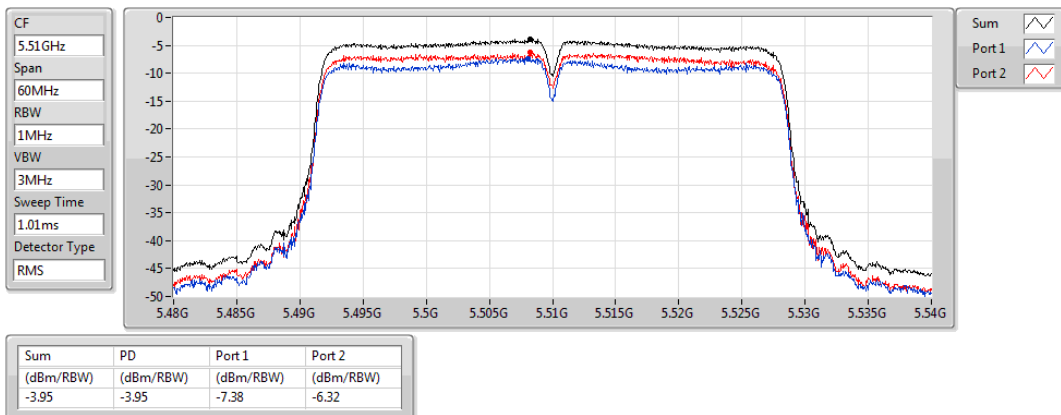


802.11n HT40_Nss1,(MCS0)_2TX

PSD

5510MHz

25/01/2019

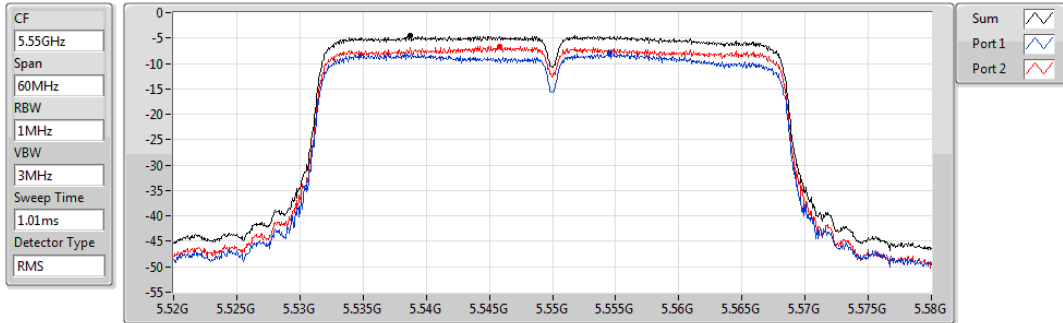


802.11n HT40_Nss1,(MCS0)_2TX

PSD

5550MHz

25/01/2019



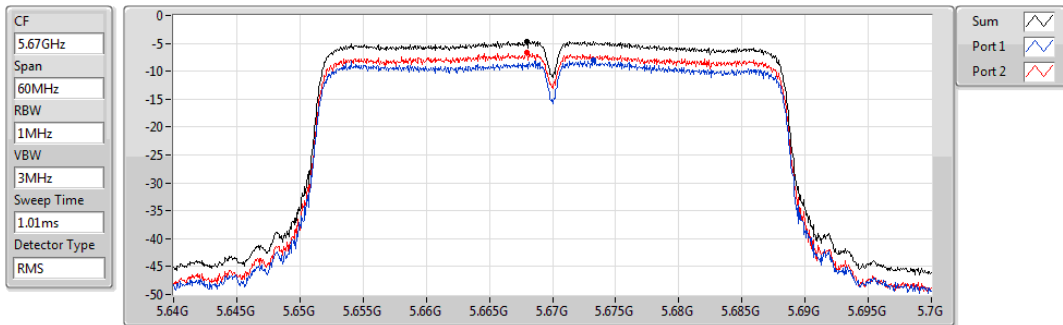
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-4.55	-4.55	-7.95	-6.67

802.11n HT40_Nss1,(MCS0)_2TX

PSD

5670MHz

25/01/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-4.59	-4.59	-8.10	-6.70

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	AV	5.3502G	46.83	54.00	-7.17	4.39	3	Vertical	107	2.99	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	5.3544G	45.45	54.00	-8.55	4.39	3	Horizontal	180	1.49	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	AV	5.35G	53.59	54.00	-0.41	4.39	3	Horizontal	182	1.49	-
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	AV	5.4306G	45.53	54.00	-8.47	4.49	3	Horizontal	208	1.01	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	PK	5.4662G	59.97	68.20	-8.23	4.54	3	Horizontal	199	2.99	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	PK	5.4696G	66.81	68.20	-1.39	4.54	3	Horizontal	180	1.01	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.134G	45.32	54.00	-8.68	4.11	3	Vertical	156	1.25	-
5260MHz	Pass	AV	5.2564G	90.20	Inf	-Inf	4.27	3	Vertical	156	1.25	-
5260MHz	Pass	AV	5.3776G	44.92	54.00	-9.08	4.43	3	Vertical	156	1.25	-
5260MHz	Pass	PK	5.1406G	58.18	74.00	-15.82	4.12	3	Vertical	156	1.25	-
5260MHz	Pass	PK	5.2582G	100.01	Inf	-Inf	4.27	3	Vertical	156	1.25	-
5260MHz	Pass	PK	5.3896G	57.56	74.00	-16.44	4.43	3	Vertical	156	1.25	-
5260MHz	Pass	AV	5.1274G	45.48	54.00	-8.52	4.11	3	Horizontal	348	2.88	-
5260MHz	Pass	AV	5.257G	93.40	Inf	-Inf	4.27	3	Horizontal	348	2.88	-
5260MHz	Pass	AV	5.374G	45.04	54.00	-8.96	4.42	3	Horizontal	348	2.88	-
5260MHz	Pass	PK	5.128G	57.95	74.00	-16.05	4.11	3	Horizontal	348	2.88	-
5260MHz	Pass	PK	5.2534G	103.43	Inf	-Inf	4.27	3	Horizontal	348	2.88	-
5260MHz	Pass	PK	5.365G	57.78	74.00	-16.22	4.41	3	Horizontal	348	2.88	-
5260MHz	Pass	AV	10.53338G	44.32	54.00	-9.68	14.52	3	Vertical	343	1.50	-
5260MHz	Pass	PK	10.5227G	58.08	74.00	-15.92	14.49	3	Vertical	343	1.50	-
5260MHz	Pass	AV	10.52444G	44.26	54.00	-9.74	14.50	3	Horizontal	71	1.50	-
5260MHz	Pass	PK	10.52084G	57.84	74.00	-16.16	14.49	3	Horizontal	71	1.50	-
5300MHz	Pass	AV	5.2968G	87.31	Inf	-Inf	4.32	3	Vertical	155	1.05	-
5300MHz	Pass	AV	5.3524G	45.41	54.00	-8.59	4.39	3	Vertical	155	1.05	-
5300MHz	Pass	PK	5.2968G	96.93	Inf	-Inf	4.32	3	Vertical	155	1.05	-
5300MHz	Pass	PK	5.3812G	57.82	74.00	-16.18	4.43	3	Vertical	155	1.05	-
5300MHz	Pass	AV	5.3028G	90.27	Inf	-Inf	4.33	3	Horizontal	183	1.09	-
5300MHz	Pass	AV	5.3524G	46.13	54.00	-7.87	4.39	3	Horizontal	183	1.09	-
5300MHz	Pass	PK	5.3032G	99.75	Inf	-Inf	4.33	3	Horizontal	183	1.09	-
5300MHz	Pass	PK	5.3524G	58.67	74.00	-15.33	4.39	3	Horizontal	183	1.09	-
5300MHz	Pass	AV	10.58506G	43.92	54.00	-10.08	14.64	3	Vertical	189	1.63	-
5300MHz	Pass	PK	10.59562G	57.64	74.00	-16.36	14.65	3	Vertical	189	1.63	-
5300MHz	Pass	AV	10.58722G	43.84	54.00	-10.16	14.64	3	Horizontal	34	1.50	-
5300MHz	Pass	PK	10.5859G	57.45	74.00	-16.55	14.64	3	Horizontal	34	1.50	-
5320MHz	Pass	AV	5.323G	91.73	Inf	-Inf	4.35	3	Vertical	107	2.99	-
5320MHz	Pass	AV	5.3502G	46.83	54.00	-7.17	4.39	3	Vertical	107	2.99	-
5320MHz	Pass	PK	5.323G	101.36	Inf	-Inf	4.35	3	Vertical	107	2.99	-
5320MHz	Pass	PK	5.35G	59.80	74.00	-14.20	4.39	3	Vertical	107	2.99	-
5320MHz	Pass	AV	5.3188G	91.69	Inf	-Inf	4.35	3	Horizontal	204	2.99	-
5320MHz	Pass	AV	5.3504G	46.59	54.00	-7.41	4.39	3	Horizontal	204	2.99	-
5320MHz	Pass	PK	5.3134G	101.42	Inf	-Inf	4.34	3	Horizontal	204	2.99	-
5320MHz	Pass	PK	5.351G	59.36	74.00	-14.64	4.39	3	Horizontal	204	2.99	-
5320MHz	Pass	AV	10.63448G	43.57	54.00	-10.43	14.76	3	Vertical	231	1.50	-
5320MHz	Pass	PK	10.6403G	57.62	74.00	-16.38	14.77	3	Vertical	231	1.50	-
5320MHz	Pass	AV	10.6301G	43.52	54.00	-10.48	14.75	3	Horizontal	67	2.91	-
5320MHz	Pass	PK	10.63598G	57.11	74.00	-16.89	14.76	3	Horizontal	67	2.91	-
5500MHz	Pass	AV	5.453G	44.99	54.00	-9.01	4.52	3	Vertical	141	1.05	-
5500MHz	Pass	AV	5.5026G	86.53	Inf	-Inf	4.58	3	Vertical	141	1.05	-
5500MHz	Pass	PK	5.4696G	57.82	68.20	-10.38	4.54	3	Vertical	141	1.05	-
5500MHz	Pass	PK	5.5034G	96.02	Inf	-Inf	4.58	3	Vertical	141	1.05	-
5500MHz	Pass	AV	5.459G	45.47	54.00	-8.53	4.53	3	Horizontal	209	1.02	-
5500MHz	Pass	AV	5.4988G	92.01	Inf	-Inf	4.58	3	Horizontal	209	1.02	-
5500MHz	Pass	PK	5.4688G	59.13	68.20	-9.07	4.54	3	Horizontal	209	1.02	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5500MHz	Pass	PK	5.4992G	101.30	Inf	-Inf	4.58	3	Horizontal	209	1.02	-
5500MHz	Pass	AV	10.98518G	44.29	54.00	-9.71	15.58	3	Vertical	171	2.11	-
5500MHz	Pass	PK	10.985G	57.35	74.00	-16.65	15.58	3	Vertical	171	2.11	-
5500MHz	Pass	AV	11.01026G	44.17	54.00	-9.83	15.60	3	Horizontal	50	1.50	-
5500MHz	Pass	PK	11.0072G	57.85	74.00	-16.15	15.60	3	Horizontal	50	1.50	-
5580MHz	Pass	AV	5.4366G	45.01	54.00	-8.99	4.50	3	Vertical	141	1.00	-
5580MHz	Pass	AV	5.5782G	85.21	Inf	-Inf	4.72	3	Vertical	141	1.00	-
5580MHz	Pass	PK	5.4606G	57.48	68.20	-10.72	4.53	3	Vertical	141	1.00	-
5580MHz	Pass	PK	5.5824G	94.46	Inf	-Inf	4.74	3	Vertical	141	1.00	-
5580MHz	Pass	PK	5.7294G	57.79	68.20	-10.41	5.09	3	Vertical	141	1.00	-
5580MHz	Pass	AV	5.4306G	45.53	54.00	-8.47	4.49	3	Horizontal	208	1.01	-
5580MHz	Pass	AV	5.5776G	89.77	Inf	-Inf	4.72	3	Horizontal	208	1.01	-
5580MHz	Pass	PK	5.4606G	57.32	68.20	-10.88	4.53	3	Horizontal	208	1.01	-
5580MHz	Pass	PK	5.5824G	99.12	Inf	-Inf	4.74	3	Horizontal	208	1.01	-
5580MHz	Pass	PK	5.7282G	56.78	68.20	-11.42	5.09	3	Horizontal	208	1.01	-
5580MHz	Pass	AV	11.1645G	43.14	54.00	-10.86	15.42	3	Vertical	209	1.37	-
5580MHz	Pass	PK	11.16852G	56.65	74.00	-17.35	15.41	3	Vertical	209	1.37	-
5580MHz	Pass	AV	11.17158G	42.99	54.00	-11.01	15.40	3	Horizontal	93	1.15	-
5580MHz	Pass	PK	11.16102G	56.72	74.00	-17.28	15.43	3	Horizontal	93	1.15	-
5700MHz	Pass	AV	5.7032G	87.41	Inf	-Inf	5.02	3	Vertical	64	2.89	-
5700MHz	Pass	PK	5.704G	97.21	Inf	-Inf	5.04	3	Vertical	64	2.89	-
5700MHz	Pass	PK	5.7524G	58.10	68.20	-10.10	5.14	3	Vertical	64	2.89	-
5700MHz	Pass	AV	5.7024G	90.03	Inf	-Inf	5.02	3	Horizontal	207	2.90	-
5700MHz	Pass	PK	5.7024G	99.51	Inf	-Inf	5.02	3	Horizontal	207	2.90	-
5700MHz	Pass	PK	5.7608G	58.03	68.20	-10.17	5.17	3	Horizontal	207	2.90	-
5700MHz	Pass	AV	11.3871G	42.64	54.00	-11.36	15.17	3	Vertical	205	2.15	-
5700MHz	Pass	PK	11.397G	56.38	74.00	-17.62	15.14	3	Vertical	205	2.15	-
5700MHz	Pass	AV	11.41236G	42.64	54.00	-11.36	15.14	3	Horizontal	228	1.52	-
5700MHz	Pass	PK	11.39652G	56.22	74.00	-17.78	15.14	3	Horizontal	228	1.52	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.1286G	45.29	54.00	-8.71	4.11	3	Vertical	137	1.01	-
5260MHz	Pass	AV	5.263G	89.07	Inf	-Inf	4.28	3	Vertical	137	1.01	-
5260MHz	Pass	AV	5.3752G	44.94	54.00	-9.06	4.43	3	Vertical	137	1.01	-
5260MHz	Pass	PK	5.1484G	58.29	74.00	-15.71	4.13	3	Vertical	137	1.01	-
5260MHz	Pass	PK	5.2624G	98.52	Inf	-Inf	4.28	3	Vertical	137	1.01	-
5260MHz	Pass	PK	5.3602G	58.09	74.00	-15.91	4.41	3	Vertical	137	1.01	-
5260MHz	Pass	AV	5.1214G	45.38	54.00	-8.62	4.09	3	Horizontal	183	1.01	-
5260MHz	Pass	AV	5.263G	95.44	Inf	-Inf	4.28	3	Horizontal	183	1.01	-
5260MHz	Pass	AV	5.3758G	45.16	54.00	-8.84	4.43	3	Horizontal	183	1.01	-
5260MHz	Pass	PK	5.1124G	57.85	74.00	-16.15	4.08	3	Horizontal	183	1.01	-
5260MHz	Pass	PK	5.2618G	105.34	Inf	-Inf	4.28	3	Horizontal	183	1.01	-
5260MHz	Pass	PK	5.3932G	58.39	74.00	-15.61	4.45	3	Horizontal	183	1.01	-
5260MHz	Pass	AV	10.52492G	44.25	54.00	-9.75	14.50	3	Vertical	324	1.51	-
5260MHz	Pass	PK	10.52996G	57.78	74.00	-16.22	14.51	3	Vertical	324	1.51	-
5260MHz	Pass	AV	10.52582G	44.26	54.00	-9.74	14.50	3	Horizontal	308	1.78	-
5260MHz	Pass	PK	10.5158G	58.41	74.00	-15.59	14.48	3	Horizontal	308	1.78	-
5300MHz	Pass	AV	5.3016G	89.06	Inf	-Inf	4.33	3	Vertical	159	2.87	-
5300MHz	Pass	AV	5.3608G	44.93	54.00	-9.07	4.41	3	Vertical	159	2.87	-
5300MHz	Pass	PK	5.3016G	98.69	Inf	-Inf	4.33	3	Vertical	159	2.87	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5300MHz	Pass	PK	5.356G	58.21	74.00	-15.79	4.40	3	Vertical	159	2.87	-
5300MHz	Pass	AV	5.3016G	92.88	Inf	-Inf	4.33	3	Horizontal	180	1.49	-
5300MHz	Pass	AV	5.3544G	45.45	54.00	-8.55	4.39	3	Horizontal	180	1.49	-
5300MHz	Pass	PK	5.3G	102.46	Inf	-Inf	4.32	3	Horizontal	180	1.49	-
5300MHz	Pass	PK	5.3668G	58.21	74.00	-15.79	4.41	3	Horizontal	180	1.49	-
5300MHz	Pass	AV	10.5874G	43.88	54.00	-10.12	14.64	3	Vertical	311	1.50	-
5300MHz	Pass	PK	10.5862G	57.64	74.00	-16.36	14.64	3	Vertical	311	1.50	-
5300MHz	Pass	AV	10.6084G	43.88	54.00	-10.12	14.69	3	Horizontal	173	2.12	-
5300MHz	Pass	PK	10.60546G	57.33	74.00	-16.67	14.69	3	Horizontal	173	2.12	-
5320MHz	Pass	AV	5.3168G	86.59	Inf	-Inf	4.34	3	Vertical	151	1.18	-
5320MHz	Pass	AV	5.356G	44.89	54.00	-9.11	4.40	3	Vertical	151	1.18	-
5320MHz	Pass	PK	5.3166G	96.01	Inf	-Inf	4.34	3	Vertical	151	1.18	-
5320MHz	Pass	PK	5.3558G	58.18	74.00	-15.82	4.40	3	Vertical	151	1.18	-
5320MHz	Pass	AV	5.3186G	93.24	Inf	-Inf	4.35	3	Horizontal	181	1.50	-
5320MHz	Pass	AV	5.3558G	45.27	54.00	-8.73	4.40	3	Horizontal	181	1.50	-
5320MHz	Pass	PK	5.319G	103.22	Inf	-Inf	4.35	3	Horizontal	181	1.50	-
5320MHz	Pass	PK	5.356G	58.52	74.00	-15.48	4.40	3	Horizontal	181	1.50	-
5320MHz	Pass	AV	10.62656G	43.62	54.00	-10.38	14.73	3	Vertical	330	2.28	-
5320MHz	Pass	PK	10.64948G	57.55	74.00	-16.45	14.79	3	Vertical	330	2.28	-
5320MHz	Pass	AV	10.62752G	43.54	54.00	-10.46	14.73	3	Horizontal	306	1.46	-
5320MHz	Pass	PK	10.64216G	57.36	74.00	-16.64	14.77	3	Horizontal	306	1.46	-
5500MHz	Pass	AV	5.458G	45.07	54.00	-8.93	4.52	3	Vertical	128	1.01	-
5500MHz	Pass	AV	5.4984G	88.64	Inf	-Inf	4.58	3	Vertical	128	1.01	-
5500MHz	Pass	PK	5.4696G	58.23	68.20	-9.97	4.54	3	Vertical	128	1.01	-
5500MHz	Pass	PK	5.499G	98.49	Inf	-Inf	4.58	3	Vertical	128	1.01	-
5500MHz	Pass	AV	5.4594G	45.69	54.00	-8.31	4.53	3	Horizontal	199	2.99	-
5500MHz	Pass	AV	5.5028G	95.96	Inf	-Inf	4.58	3	Horizontal	199	2.99	-
5500MHz	Pass	PK	5.4662G	59.97	68.20	-8.23	4.54	3	Horizontal	199	2.99	-
5500MHz	Pass	PK	5.5032G	105.59	Inf	-Inf	4.58	3	Horizontal	199	2.99	-
5500MHz	Pass	AV	10.98524G	44.10	54.00	-9.90	15.58	3	Vertical	330	1.21	-
5500MHz	Pass	PK	10.98812G	58.02	74.00	-15.98	15.59	3	Vertical	330	1.21	-
5500MHz	Pass	AV	10.98686G	44.07	54.00	-9.93	15.58	3	Horizontal	321	1.92	-
5500MHz	Pass	PK	10.99628G	57.31	74.00	-16.69	15.61	3	Horizontal	321	1.92	-
5580MHz	Pass	AV	5.4318G	44.88	54.00	-9.12	4.49	3	Vertical	129	1.03	-
5580MHz	Pass	AV	5.577G	89.28	Inf	-Inf	4.72	3	Vertical	129	1.03	-
5580MHz	Pass	PK	5.4672G	57.38	68.20	-10.82	4.54	3	Vertical	129	1.03	-
5580MHz	Pass	PK	5.577G	99.07	Inf	-Inf	4.72	3	Vertical	129	1.03	-
5580MHz	Pass	PK	5.7264G	57.64	68.20	-10.56	5.08	3	Vertical	129	1.03	-
5580MHz	Pass	AV	5.4402G	45.24	54.00	-8.76	4.50	3	Horizontal	235	2.12	-
5580MHz	Pass	AV	5.583G	92.57	Inf	-Inf	4.74	3	Horizontal	235	2.12	-
5580MHz	Pass	PK	5.469G	56.77	68.20	-11.43	4.54	3	Horizontal	235	2.12	-
5580MHz	Pass	PK	5.5824G	102.23	Inf	-Inf	4.74	3	Horizontal	235	2.12	-
5580MHz	Pass	PK	5.73G	56.59	68.20	-11.61	5.09	3	Horizontal	235	2.12	-
5580MHz	Pass	AV	11.16792G	43.03	54.00	-10.97	15.41	3	Vertical	81	1.57	-
5580MHz	Pass	PK	11.14818G	56.36	74.00	-17.64	15.44	3	Vertical	81	1.57	-
5580MHz	Pass	AV	11.16378G	42.97	54.00	-11.03	15.42	3	Horizontal	131	2.43	-
5580MHz	Pass	PK	11.17308G	56.93	74.00	-17.07	15.40	3	Horizontal	131	2.43	-
5700MHz	Pass	AV	5.7052G	89.99	Inf	-Inf	5.04	3	Vertical	65	2.90	-
5700MHz	Pass	PK	5.704G	99.58	Inf	-Inf	5.04	3	Vertical	65	2.90	-

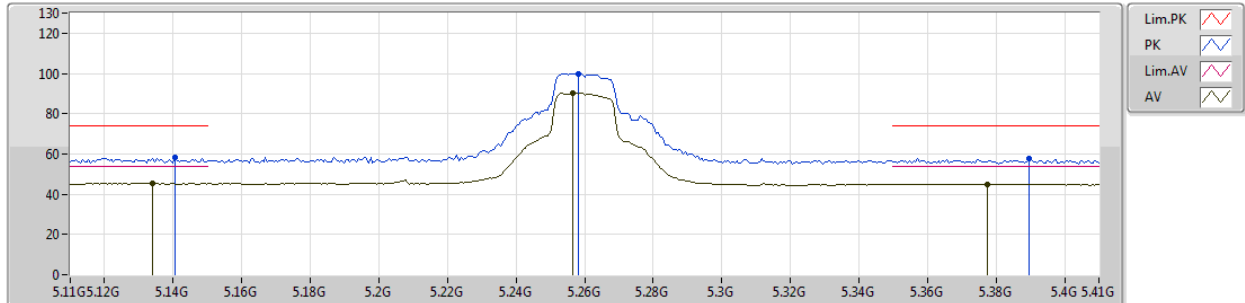
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5700MHz	Pass	PK	5.7252G	58.86	68.20	-9.34	5.08	3	Vertical	65	2.90	-
5700MHz	Pass	AV	5.702G	93.89	Inf	-Inf	5.02	3	Horizontal	207	2.90	-
5700MHz	Pass	PK	5.702G	103.60	Inf	-Inf	5.02	3	Horizontal	207	2.90	-
5700MHz	Pass	PK	5.726G	58.95	68.20	-9.25	5.08	3	Horizontal	207	2.90	-
5700MHz	Pass	AV	11.39466G	42.62	54.00	-11.38	15.15	3	Vertical	333	1.98	-
5700MHz	Pass	PK	11.39328G	56.94	74.00	-17.06	15.15	3	Vertical	333	1.98	-
5700MHz	Pass	AV	11.39106G	42.67	54.00	-11.33	15.15	3	Horizontal	242	2.40	-
5700MHz	Pass	PK	11.39544G	56.38	74.00	-17.62	15.15	3	Horizontal	242	2.40	-
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	AV	5.2716G	85.75	Inf	-Inf	4.29	3	Vertical	144	1.06	-
5270MHz	Pass	AV	5.3648G	44.88	54.00	-9.12	4.41	3	Vertical	144	1.06	-
5270MHz	Pass	PK	5.2728G	95.10	Inf	-Inf	4.29	3	Vertical	144	1.06	-
5270MHz	Pass	PK	5.3616G	57.15	74.00	-16.85	4.41	3	Vertical	144	1.06	-
5270MHz	Pass	AV	5.2716G	92.52	Inf	-Inf	4.29	3	Horizontal	182	1.00	-
5270MHz	Pass	AV	5.3508G	45.20	54.00	-8.80	4.39	3	Horizontal	182	1.00	-
5270MHz	Pass	PK	5.2712G	101.88	Inf	-Inf	4.29	3	Horizontal	182	1.00	-
5270MHz	Pass	PK	5.3524G	57.90	74.00	-16.10	4.39	3	Horizontal	182	1.00	-
5270MHz	Pass	AV	10.52872G	44.22	54.00	-9.78	14.50	3	Vertical	266	1.88	-
5270MHz	Pass	PK	10.54288G	58.26	74.00	-15.74	14.54	3	Vertical	266	1.88	-
5270MHz	Pass	AV	10.54006G	44.35	54.00	-9.65	14.54	3	Horizontal	150	1.61	-
5270MHz	Pass	PK	10.5319G	58.36	74.00	-15.64	14.51	3	Horizontal	150	1.61	-
5310MHz	Pass	AV	5.3084G	82.10	Inf	-Inf	4.34	3	Vertical	149	1.50	-
5310MHz	Pass	AV	5.35G	48.17	54.00	-5.83	4.39	3	Vertical	149	1.50	-
5310MHz	Pass	PK	5.308G	92.08	Inf	-Inf	4.33	3	Vertical	149	1.50	-
5310MHz	Pass	PK	5.35G	61.24	74.00	-12.76	4.39	3	Vertical	149	1.50	-
5310MHz	Pass	AV	5.3116G	90.08	Inf	-Inf	4.34	3	Horizontal	182	1.49	-
5310MHz	Pass	AV	5.35G	53.59	54.00	-0.41	4.39	3	Horizontal	182	1.49	-
5310MHz	Pass	PK	5.308G	99.85	Inf	-Inf	4.33	3	Horizontal	182	1.49	-
5310MHz	Pass	PK	5.35G	68.52	74.00	-5.48	4.39	3	Horizontal	182	1.49	-
5310MHz	Pass	AV	10.61556G	43.66	54.00	-10.34	14.71	3	Vertical	315	1.46	-
5310MHz	Pass	PK	10.63434G	57.46	74.00	-16.54	14.76	3	Vertical	315	1.46	-
5310MHz	Pass	AV	10.61034G	43.71	54.00	-10.29	14.70	3	Horizontal	138	1.02	-
5310MHz	Pass	PK	10.61142G	57.59	74.00	-16.41	14.70	3	Horizontal	138	1.02	-
5510MHz	Pass	AV	5.4584G	45.35	54.00	-8.65	4.53	3	Vertical	140	1.01	-
5510MHz	Pass	AV	5.4944G	84.45	Inf	-Inf	4.58	3	Vertical	140	1.01	-
5510MHz	Pass	PK	5.4696G	59.72	68.20	-8.48	4.54	3	Vertical	140	1.01	-
5510MHz	Pass	PK	5.4948G	94.06	Inf	-Inf	4.58	3	Vertical	140	1.01	-
5510MHz	Pass	AV	5.4596G	47.29	54.00	-6.71	4.53	3	Horizontal	180	1.01	-
5510MHz	Pass	AV	5.5132G	90.80	Inf	-Inf	4.61	3	Horizontal	180	1.01	-
5510MHz	Pass	PK	5.4696G	66.81	68.20	-1.39	4.54	3	Horizontal	180	1.01	-
5510MHz	Pass	PK	5.5136G	100.46	Inf	-Inf	4.61	3	Horizontal	180	1.01	-
5510MHz	Pass	AV	11.0203G	44.11	54.00	-9.89	15.59	3	Vertical	257	1.66	-
5510MHz	Pass	PK	11.00662G	57.79	74.00	-16.21	15.60	3	Vertical	257	1.66	-
5510MHz	Pass	AV	11.0302G	44.04	54.00	-9.96	15.57	3	Horizontal	202	2.13	-
5510MHz	Pass	PK	11.0125G	57.54	74.00	-16.46	15.59	3	Horizontal	202	2.13	-
5550MHz	Pass	AV	5.4592G	44.82	54.00	-9.18	4.53	3	Vertical	159	1.01	-
5550MHz	Pass	AV	5.5344G	84.11	Inf	-Inf	4.64	3	Vertical	159	1.01	-
5550MHz	Pass	PK	5.466G	57.31	68.20	-10.89	4.54	3	Vertical	159	1.01	-
5550MHz	Pass	PK	5.5348G	93.79	Inf	-Inf	4.64	3	Vertical	159	1.01	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5550MHz	Pass	AV	5.4584G	45.08	54.00	-8.92	4.53	3	Horizontal	237	1.50	-
5550MHz	Pass	AV	5.5516G	87.77	Inf	-Inf	4.68	3	Horizontal	237	1.50	-
5550MHz	Pass	PK	5.4672G	56.89	68.20	-11.31	4.54	3	Horizontal	237	1.50	-
5550MHz	Pass	PK	5.5536G	97.17	Inf	-Inf	4.69	3	Horizontal	237	1.50	-
5550MHz	Pass	AV	11.0853G	43.47	54.00	-10.53	15.52	3	Vertical	350	2.10	-
5550MHz	Pass	PK	11.1036G	57.08	74.00	-16.92	15.49	3	Vertical	350	2.10	-
5550MHz	Pass	AV	11.08794G	43.52	54.00	-10.48	15.51	3	Horizontal	290	1.08	-
5550MHz	Pass	PK	11.10912G	56.50	74.00	-17.50	15.48	3	Horizontal	290	1.08	-
5670MHz	Pass	AV	5.6718G	83.97	Inf	-Inf	4.95	3	Vertical	131	1.01	-
5670MHz	Pass	PK	5.6532G	93.35	Inf	-Inf	4.90	3	Vertical	131	1.01	-
5670MHz	Pass	PK	5.7462G	57.85	68.20	-10.35	5.13	3	Vertical	131	1.01	-
5670MHz	Pass	AV	5.6544G	89.10	Inf	-Inf	4.91	3	Horizontal	186	2.95	-
5670MHz	Pass	PK	5.655G	98.37	Inf	-Inf	4.91	3	Horizontal	186	2.95	-
5670MHz	Pass	PK	5.7966G	58.13	68.20	-10.07	5.26	3	Horizontal	186	2.95	-
5670MHz	Pass	AV	11.3256G	42.97	54.00	-11.03	15.23	3	Vertical	143	2.24	-
5670MHz	Pass	PK	11.34528G	56.36	74.00	-17.64	15.22	3	Vertical	143	2.24	-
5670MHz	Pass	AV	11.32608G	42.79	54.00	-11.21	15.23	3	Horizontal	254	1.56	-
5670MHz	Pass	PK	11.33718G	56.61	74.00	-17.39	15.22	3	Horizontal	254	1.56	-

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5260MHz_TX

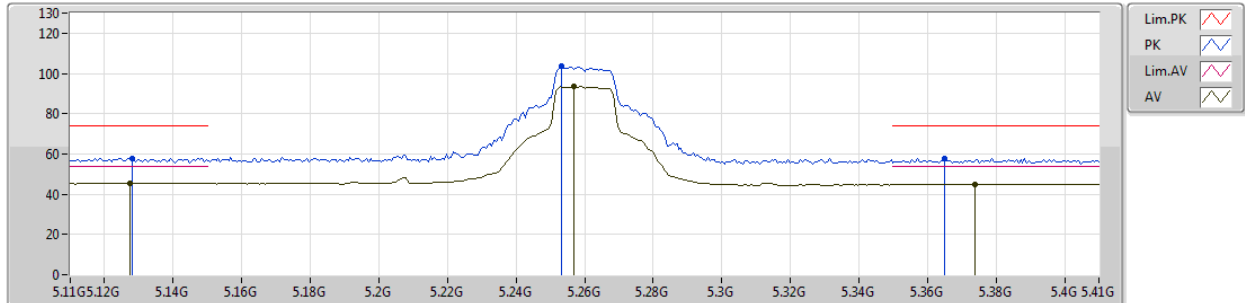


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.134G	45.32	54.00	-8.68	4.11	3	Vertical	156	1.25	-
AV	5.2564G	90.20	Inf	-Inf	4.27	3	Vertical	156	1.25	-
AV	5.3776G	44.92	54.00	-9.08	4.43	3	Vertical	156	1.25	-
PK	5.1406G	58.18	74.00	-15.82	4.12	3	Vertical	156	1.25	-
PK	5.2582G	100.01	Inf	-Inf	4.27	3	Vertical	156	1.25	-
PK	5.3896G	57.56	74.00	-16.44	4.43	3	Vertical	156	1.25	-

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5260MHz_TX

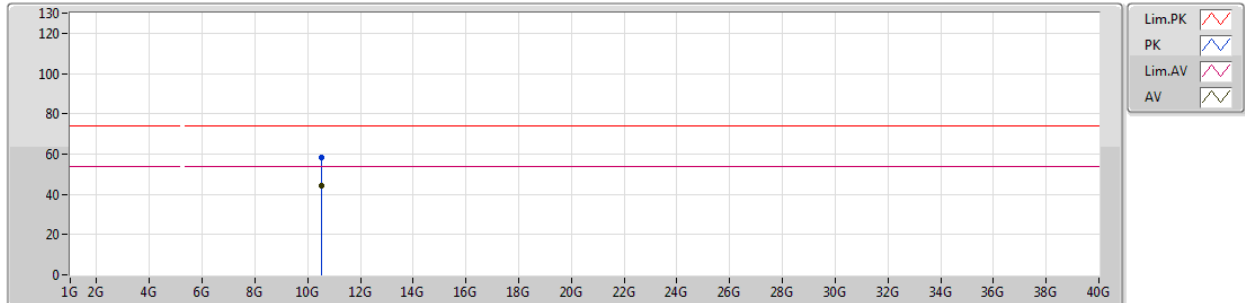


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1274G	45.48	54.00	-8.52	4.11	3	Horizontal	348	2.88	-
AV	5.257G	93.40	Inf	-Inf	4.27	3	Horizontal	348	2.88	-
AV	5.374G	45.04	54.00	-8.96	4.42	3	Horizontal	348	2.88	-
PK	5.128G	57.95	74.00	-16.05	4.11	3	Horizontal	348	2.88	-
PK	5.2534G	103.43	Inf	-Inf	4.27	3	Horizontal	348	2.88	-
PK	5.365G	57.78	74.00	-16.22	4.41	3	Horizontal	348	2.88	-

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5260MHz_TX

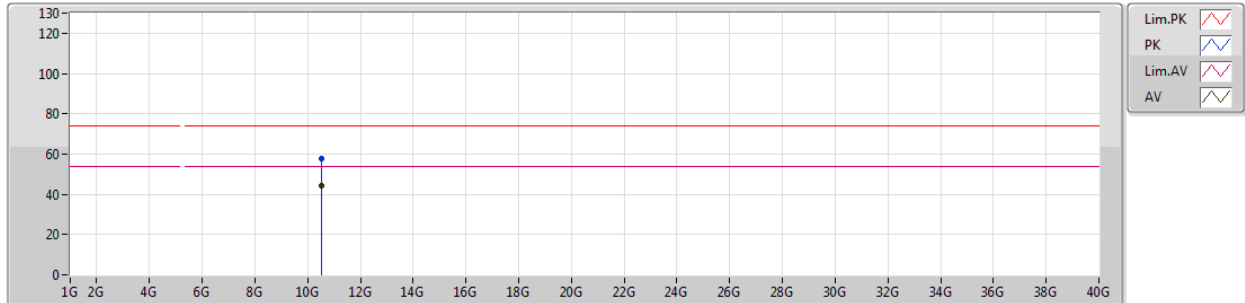


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments								
	[Hz]	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)									
AV	10.53338G	44.32	54.00	-9.68	14.52	3	Vertical	343	1.50	-								
PK	10.5227G	58.08	74.00	-15.92	14.49	3	Vertical	343	1.50	-								

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5260MHz_TX

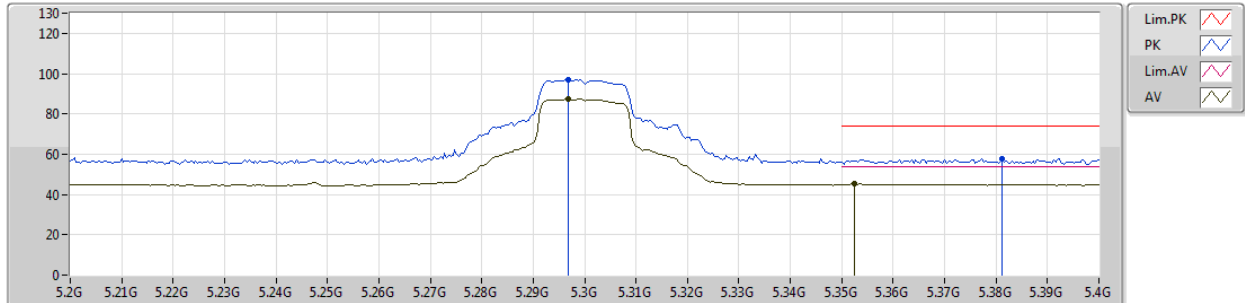


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.52444G	44.26	54.00	-9.74	14.50	3	Horizontal	71	1.50	-								
PK	10.52084G	57.84	74.00	-16.16	14.49	3	Horizontal	71	1.50	-								

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5300MHz_TX

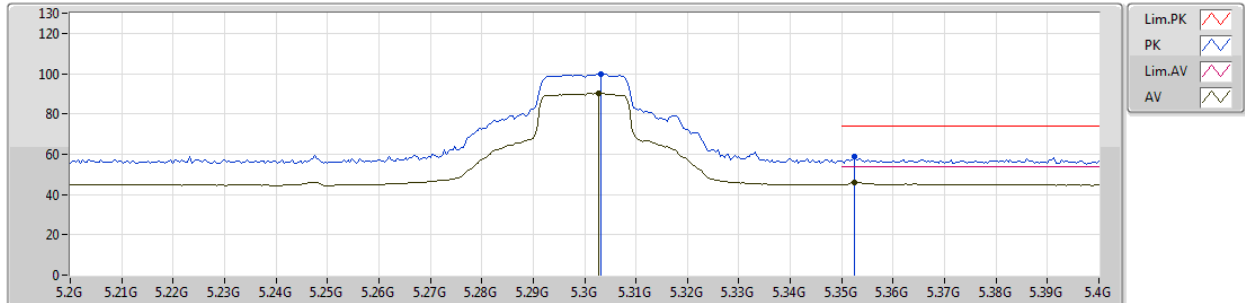


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.2968G	87.31	Inf	-Inf	4.32	3	Vertical	155	1.05	-
AV	5.3524G	45.41	54.00	-8.59	4.39	3	Vertical	155	1.05	-
PK	5.2968G	96.93	Inf	-Inf	4.32	3	Vertical	155	1.05	-
PK	5.3812G	57.82	74.00	-16.18	4.43	3	Vertical	155	1.05	-

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5300MHz_TX

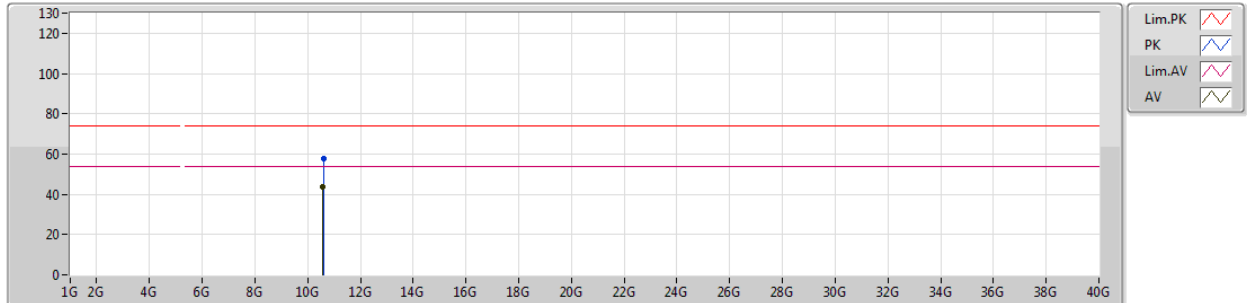


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.3028G	90.27	Inf	-Inf	4.33	3	Horizontal	183	1.09	-
AV	5.3524G	46.13	54.00	-7.87	4.39	3	Horizontal	183	1.09	-
PK	5.3032G	99.75	Inf	-Inf	4.33	3	Horizontal	183	1.09	-
PK	5.3524G	58.67	74.00	-15.33	4.39	3	Horizontal	183	1.09	-

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5300MHz_TX

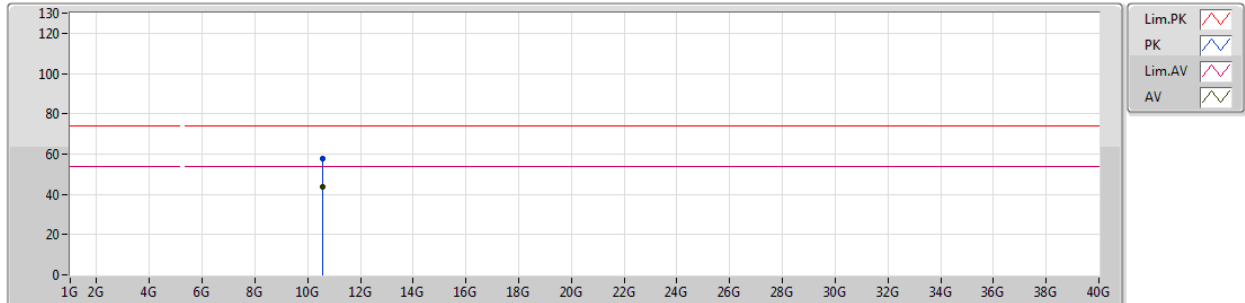


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.58506G	43.92	54.00	-10.08	14.64	3	Vertical	189	1.63	-								
PK	10.59562G	57.64	74.00	-16.36	14.65	3	Vertical	189	1.63	-								

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5300MHz_TX

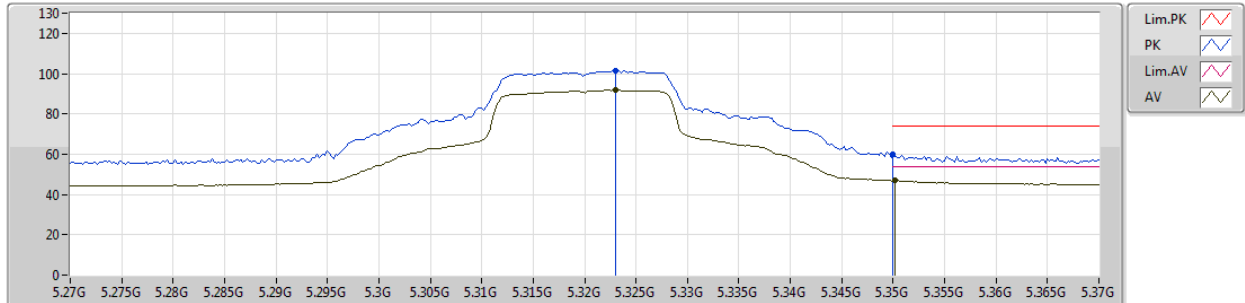


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.58722G	43.84	54.00	-10.16	14.64	3	Horizontal	34	1.50	-								
PK	10.5859G	57.45	74.00	-16.55	14.64	3	Horizontal	34	1.50	-								

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5320MHz_TX

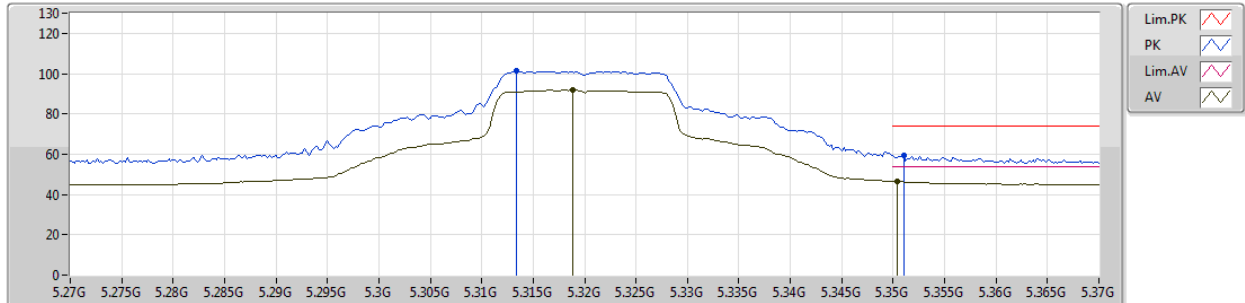


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.329G	91.73	Inf	-Inf	4.35	3	Vertical	107	2.99	-
AV	5.3502G	46.83	54.00	-7.17	4.39	3	Vertical	107	2.99	-
PK	5.329G	101.36	Inf	-Inf	4.35	3	Vertical	107	2.99	-
PK	5.35G	59.80	74.00	-14.20	4.39	3	Vertical	107	2.99	-

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5320MHz_TX

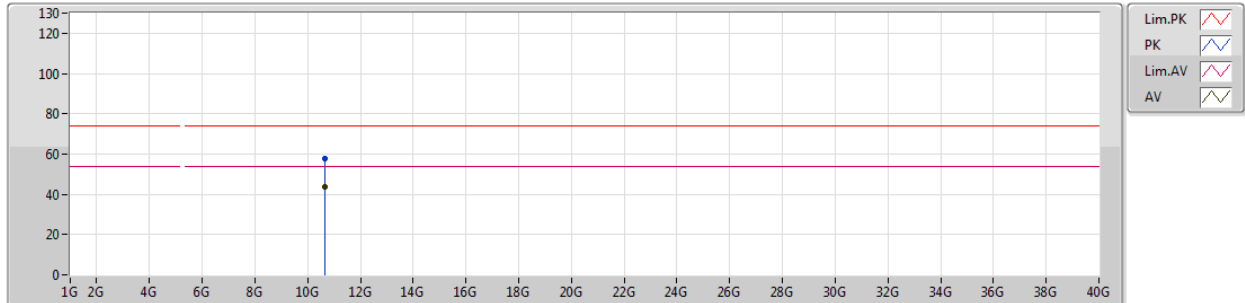


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.3188G	91.69	Inf	-Inf	4.35	3	Horizontal	204	2.99	-
AV	5.3504G	46.59	54.00	-7.41	4.39	3	Horizontal	204	2.99	-
PK	5.3134G	101.42	Inf	-Inf	4.34	3	Horizontal	204	2.99	-
PK	5.351G	59.36	74.00	-14.64	4.39	3	Horizontal	204	2.99	-

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5320MHz_TX

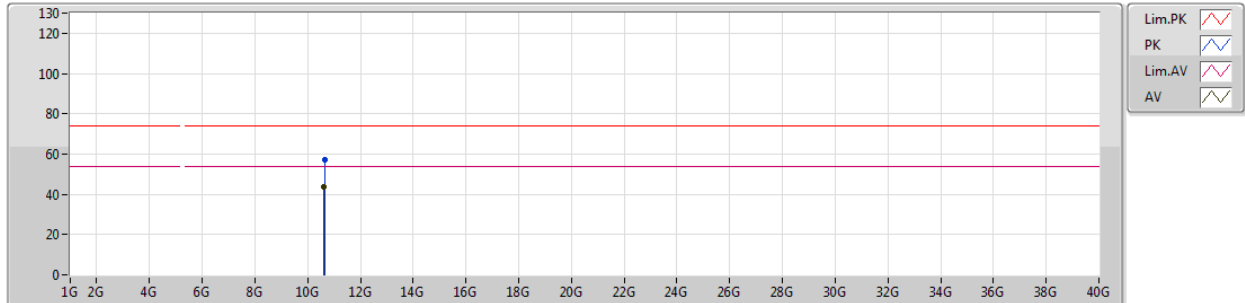


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.63448G	43.57	54.00	-10.43	14.76	3	Vertical	231	1.50	-								
PK	10.6403G	57.62	74.00	-16.38	14.77	3	Vertical	231	1.50	-								

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5320MHz_TX

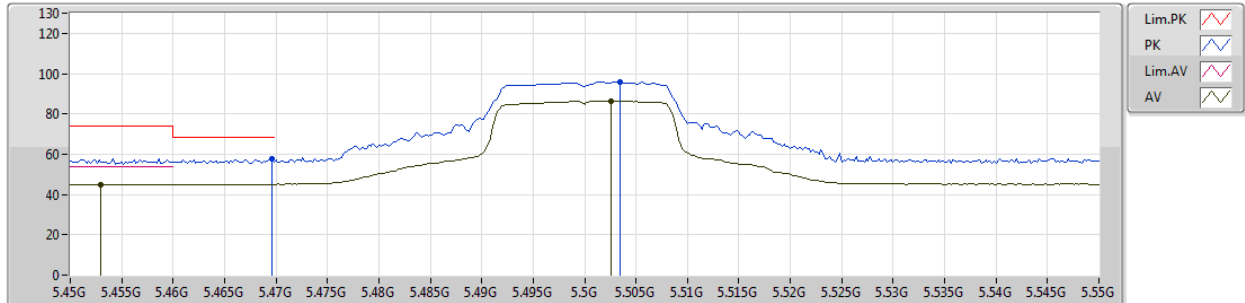


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.6301G	43.52	54.00	-10.48	14.75	3	Horizontal	67	2.91	-								
PK	10.63598G	57.11	74.00	-16.89	14.76	3	Horizontal	67	2.91	-								

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5500MHz_TX

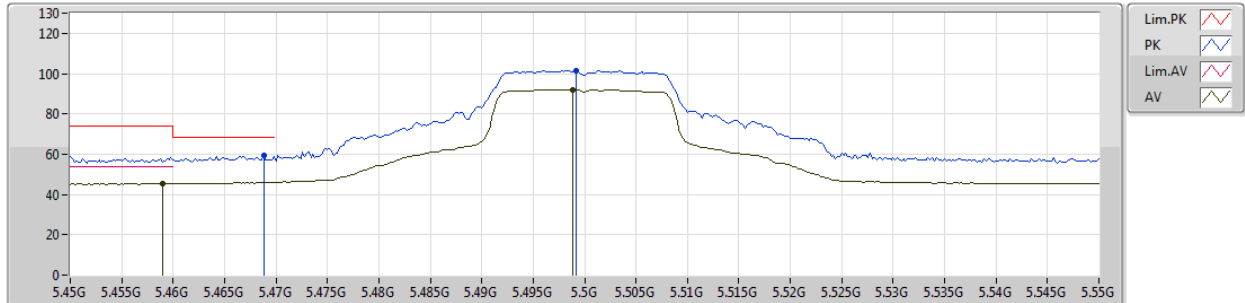


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.453G	44.99	54.00	-9.01	4.52	3	Vertical	141	1.05	-
AV	5.5026G	86.53	Inf	-Inf	4.58	3	Vertical	141	1.05	-
PK	5.4696G	57.82	68.20	-10.38	4.54	3	Vertical	141	1.05	-
PK	5.5034G	96.02	Inf	-Inf	4.58	3	Vertical	141	1.05	-

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5500MHz_TX

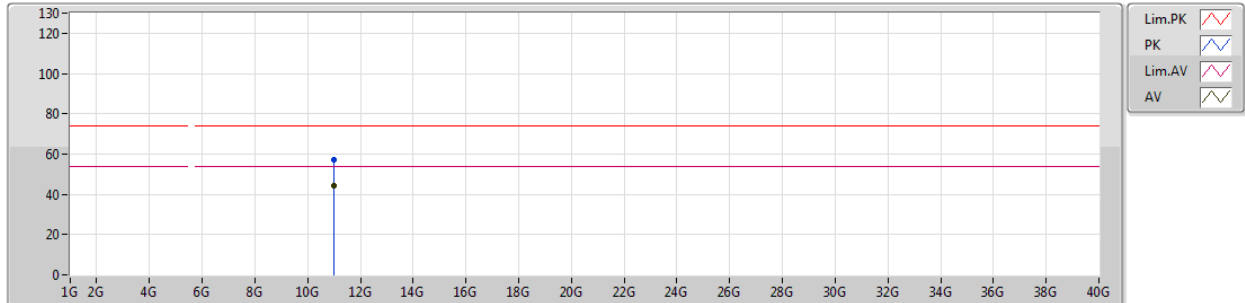


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.459G	45.47	54.00	-8.53	4.53	3	Horizontal	209	1.02	-
AV	5.4988G	92.01	Inf	-Inf	4.58	3	Horizontal	209	1.02	-
PK	5.4688G	59.13	68.20	-9.07	4.54	3	Horizontal	209	1.02	-
PK	5.4992G	101.30	Inf	-Inf	4.58	3	Horizontal	209	1.02	-

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5500MHz_TX

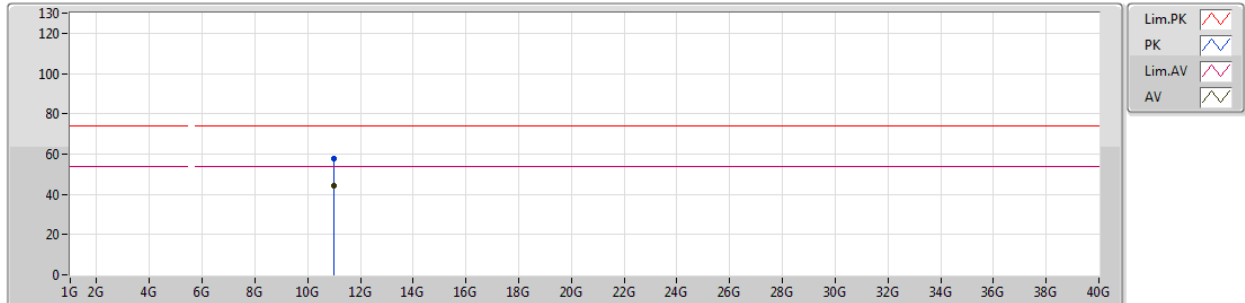


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments								
	(Hz)	(dBuV/m)	(dBuV/m)		(dB)	(m)		(°)	(m)									
AV	10.98518G	44.29	54.00	-9.71	15.58	3	Vertical	171	2.11	-								
PK	10.985G	57.35	74.00	-16.65	15.58	3	Vertical	171	2.11	-								

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5500MHz_TX

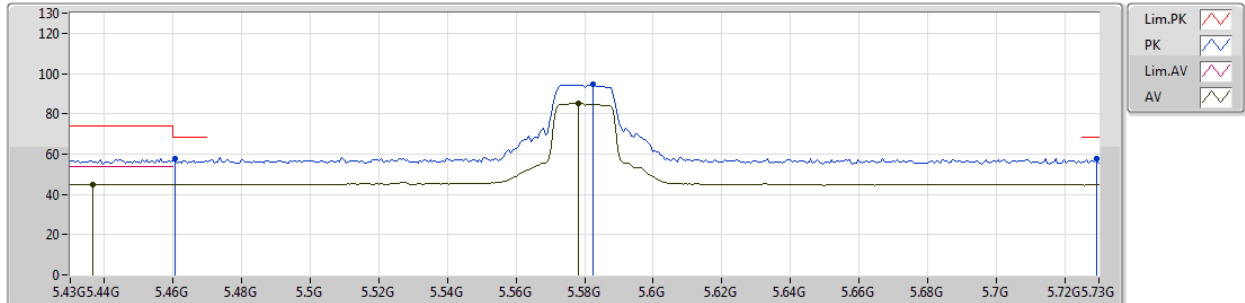


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.01026G	44.17	54.00	-9.83	15.60	3	Horizontal	50	1.50	-								
PK	11.0072G	57.85	74.00	-16.15	15.60	3	Horizontal	50	1.50	-								

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5580MHz_TX

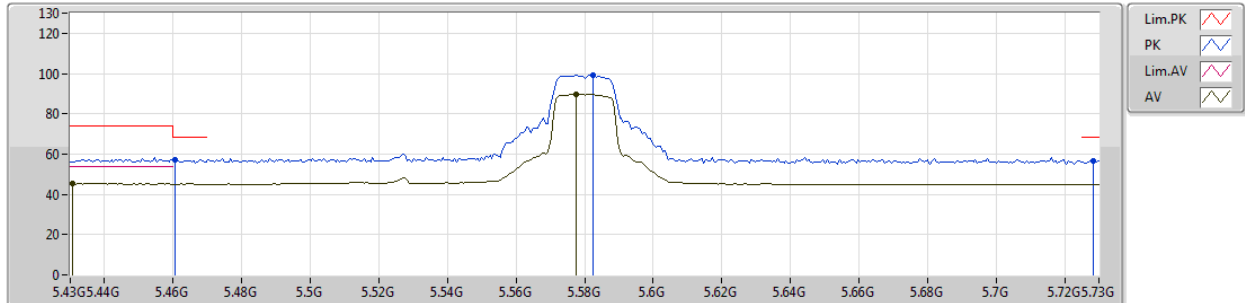


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.4366G	45.01	54.00	-8.99	4.50	3	Vertical	141	1.00	-
AV	5.5782G	85.21	Inf	-Inf	4.72	3	Vertical	141	1.00	-
PK	5.4606G	57.48	68.20	-10.72	4.53	3	Vertical	141	1.00	-
PK	5.5824G	94.46	Inf	-Inf	4.74	3	Vertical	141	1.00	-
PK	5.7294G	57.79	68.20	-10.41	5.09	3	Vertical	141	1.00	-

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5580MHz_TX

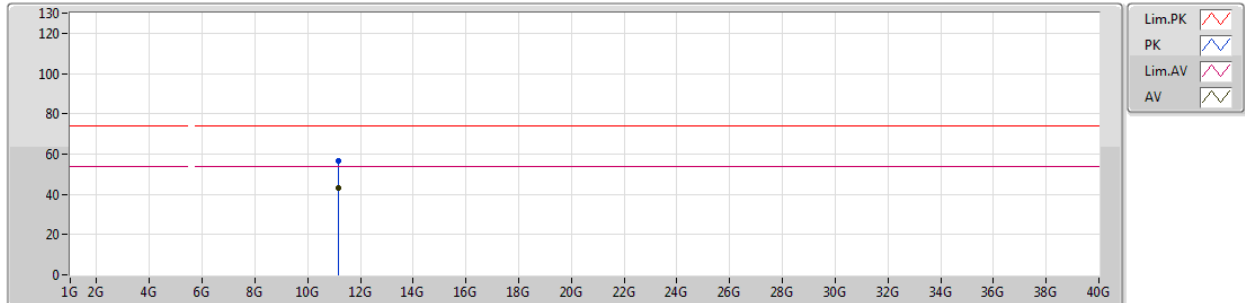


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.4306G	45.53	54.00	-8.47	4.49	3	Horizontal	208	1.01	-
AV	5.5776G	89.77	Inf	-Inf	4.72	3	Horizontal	208	1.01	-
PK	5.4606G	57.32	68.20	-10.88	4.53	3	Horizontal	208	1.01	-
PK	5.5824G	99.12	Inf	-Inf	4.74	3	Horizontal	208	1.01	-
PK	5.7282G	56.78	68.20	-11.42	5.09	3	Horizontal	208	1.01	-

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5580MHz_TX

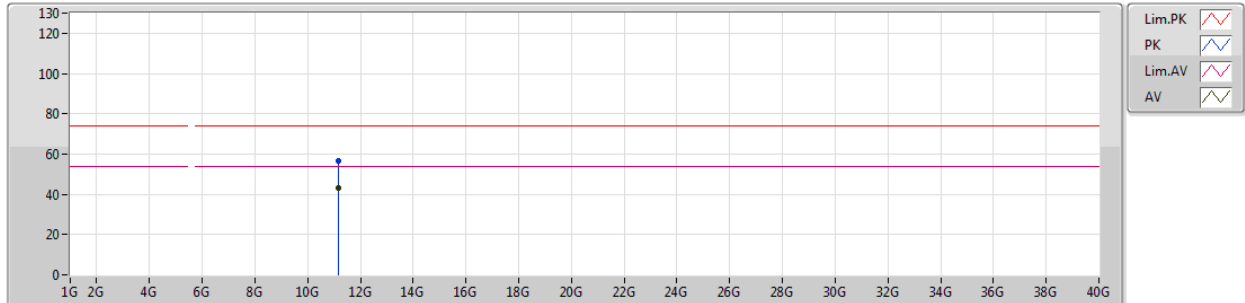


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.1645G	43.14	54.00	-10.86	15.42	3	Vertical	209	1.37	-								
PK	11.16852G	56.65	74.00	-17.35	15.41	3	Vertical	209	1.37	-								

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5580MHz_TX

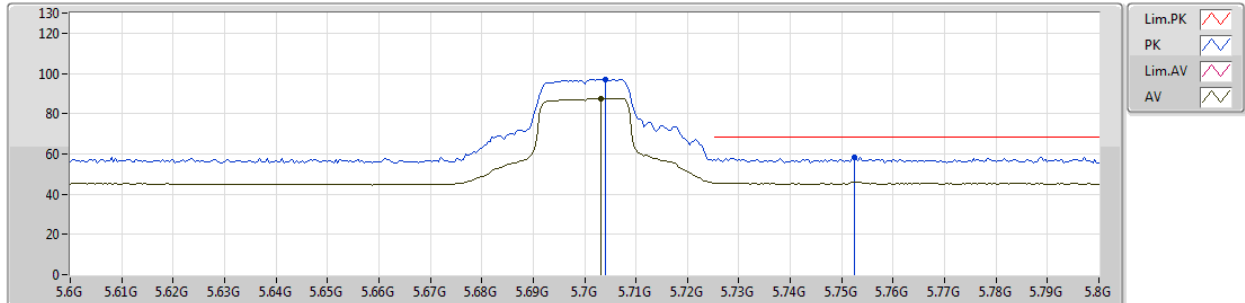


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.17158G	42.99	54.00	-11.01	15.40	3	Horizontal	93	1.15	-								
PK	11.16102G	56.72	74.00	-17.28	15.43	3	Horizontal	93	1.15	-								

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5700MHz_TX

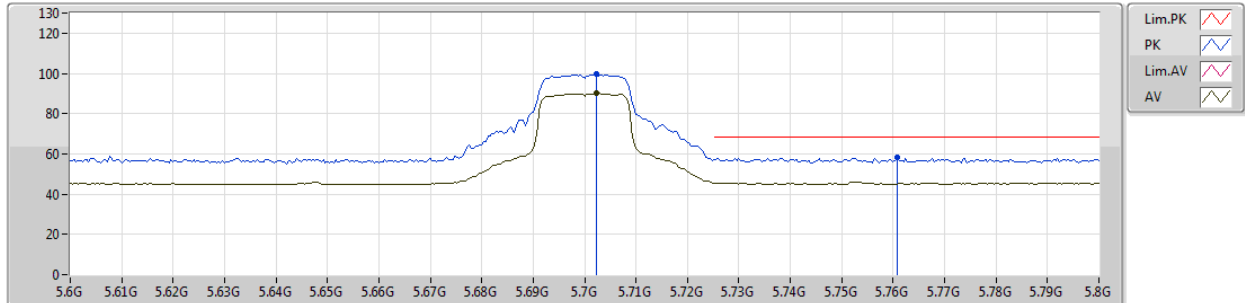


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7032G	87.41	Inf	-Inf	5.02	3	Vertical	64	2.89	-
PK	5.704G	97.21	Inf	-Inf	5.04	3	Vertical	64	2.89	-
PK	5.7524G	58.10	68.20	-10.10	5.14	3	Vertical	64	2.89	-

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5700MHz_TX

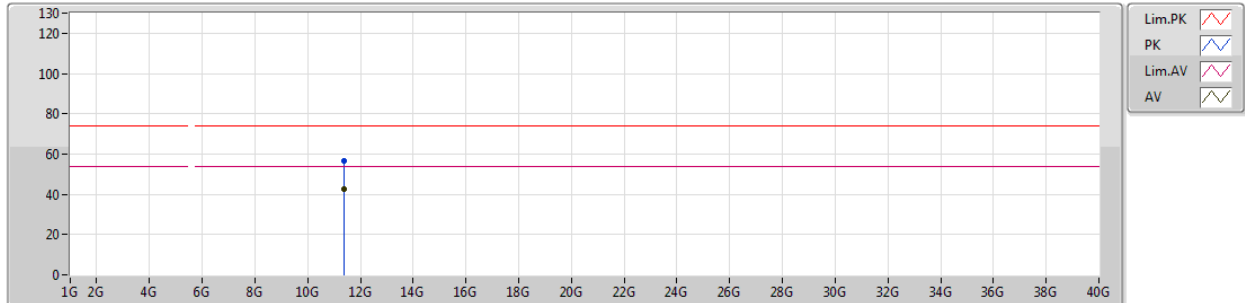


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7024G	90.03	Inf	-Inf	5.02	3	Horizontal	207	2.90	-
PK	5.7024G	99.51	Inf	-Inf	5.02	3	Horizontal	207	2.90	-
PK	5.7608G	58.03	68.20	-10.17	5.17	3	Horizontal	207	2.90	-

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5700MHz_TX

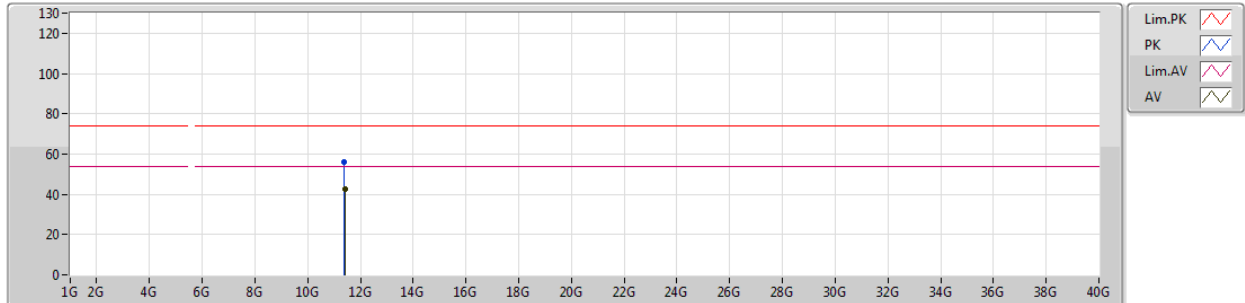


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments								
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)									
AV	11.3871G	42.64	54.00	-11.36	15.17	3	Vertical	205	2.15	-								
PK	11.397G	56.38	74.00	-17.62	15.14	3	Vertical	205	2.15	-								

802.11a_Nss1,(6Mbps)_1TX

23/01/2019

5700MHz_TX

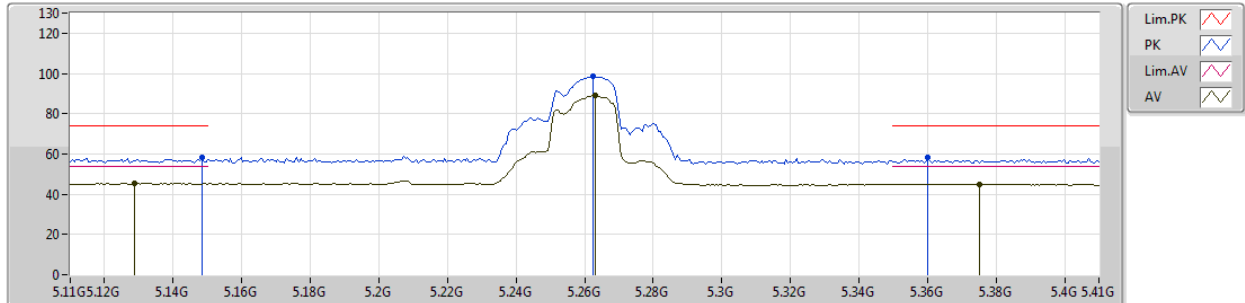


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments							
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)								
AV	11.41236G	42.64	54.00	-11.36	15.14	3	Horizontal	228	1.52	-							
PK	11.39652G	56.22	74.00	-17.78	15.14	3	Horizontal	228	1.52	-							

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5260MHz_TX

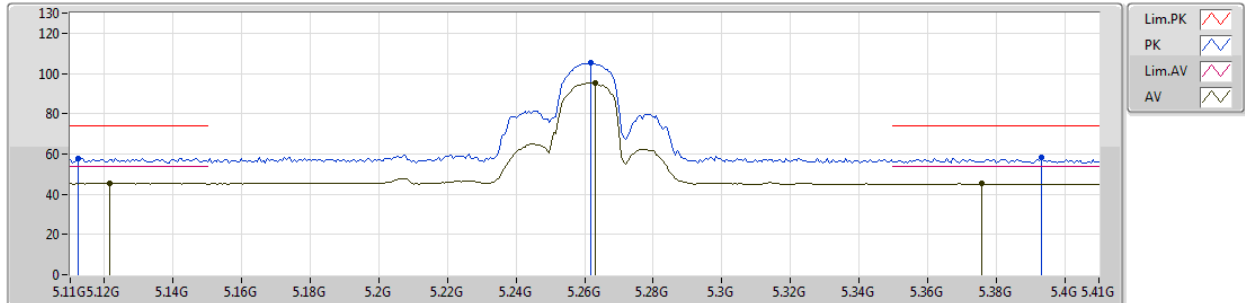


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1286G	45.29	54.00	-8.71	4.11	3	Vertical	137	1.01	-
AV	5.263G	89.07	Inf	-Inf	4.28	3	Vertical	137	1.01	-
AV	5.3752G	44.94	54.00	-9.06	4.43	3	Vertical	137	1.01	-
PK	5.1484G	58.29	74.00	-15.71	4.13	3	Vertical	137	1.01	-
PK	5.2624G	98.52	Inf	-Inf	4.28	3	Vertical	137	1.01	-
PK	5.3602G	58.09	74.00	-15.91	4.41	3	Vertical	137	1.01	-

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5260MHz_TX

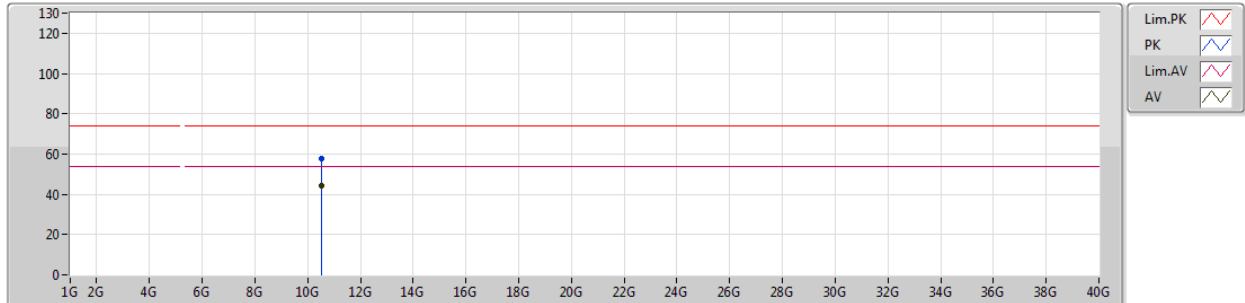


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1214G	45.38	54.00	-8.62	4.09	3	Horizontal	183	1.01	-
AV	5.263G	95.44	Inf	-Inf	4.28	3	Horizontal	183	1.01	-
AV	5.3758G	45.16	54.00	-8.84	4.43	3	Horizontal	183	1.01	-
PK	5.1124G	57.85	74.00	-16.15	4.08	3	Horizontal	183	1.01	-
PK	5.2618G	105.34	Inf	-Inf	4.28	3	Horizontal	183	1.01	-
PK	5.3932G	58.39	74.00	-15.61	4.45	3	Horizontal	183	1.01	-

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5260MHz_TX

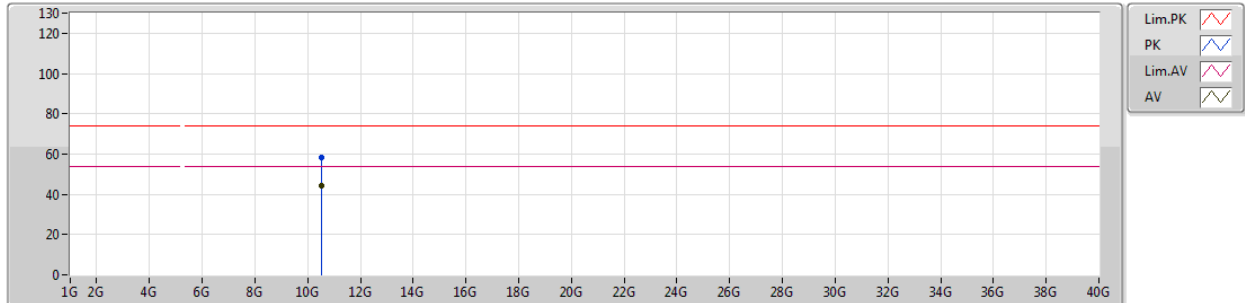


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.52492G	44.25	54.00	-9.75	14.50	3	Vertical	324	1.51	-								
PK	10.52996G	57.78	74.00	-16.22	14.51	3	Vertical	324	1.51	-								

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5260MHz_TX

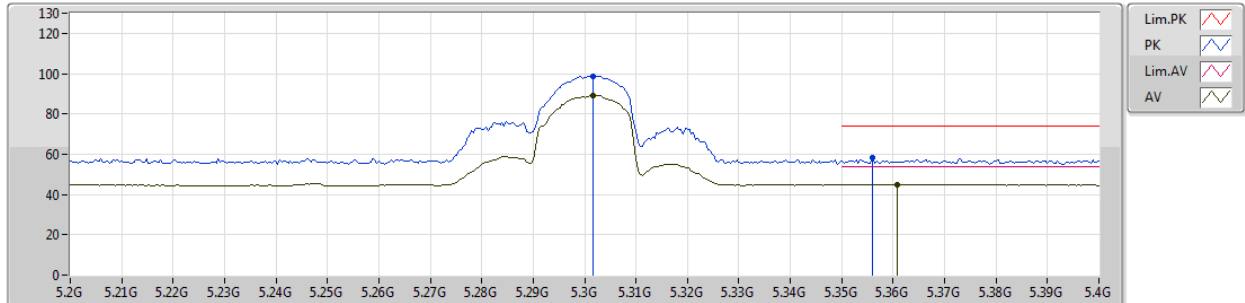


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments							
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)								
AV	10.52582G	44.26	54.00	-9.74	14.50	3	Horizontal	308	1.78	-							
PK	10.5158G	58.41	74.00	-15.59	14.48	3	Horizontal	308	1.78	-							

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5300MHz_TX

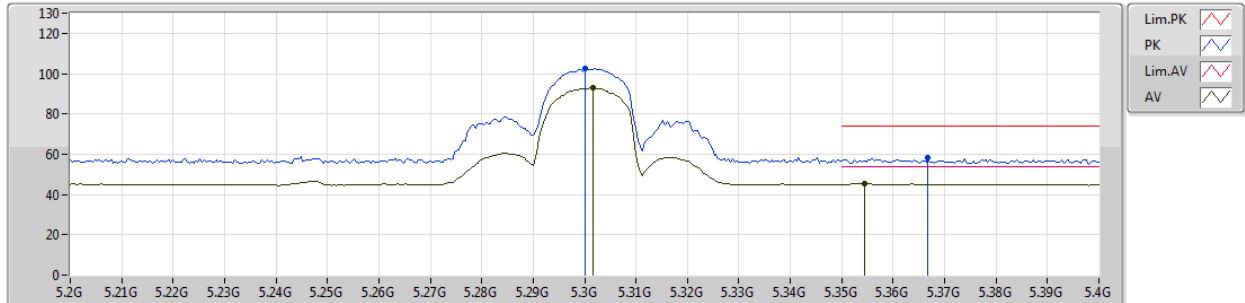


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.3016G	89.06	Inf	-Inf	4.33	3	Vertical	159	2.87	-
AV	5.3608G	44.93	54.00	-9.07	4.41	3	Vertical	159	2.87	-
PK	5.3016G	98.69	Inf	-Inf	4.33	3	Vertical	159	2.87	-
PK	5.356G	58.21	74.00	-15.79	4.40	3	Vertical	159	2.87	-

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5300MHz_TX

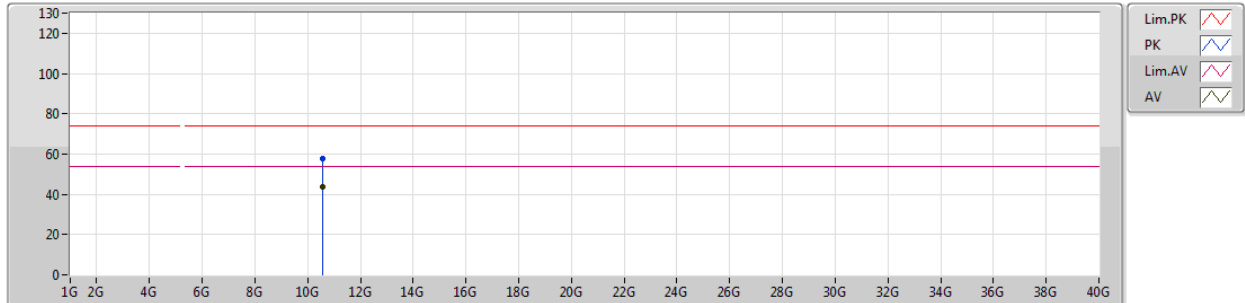


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.3016G	92.88	Inf	-Inf	4.33	3	Horizontal	180	1.49	-
AV	5.3544G	45.45	54.00	-8.55	4.39	3	Horizontal	180	1.49	-
PK	5.3G	102.46	Inf	-Inf	4.32	3	Horizontal	180	1.49	-
PK	5.3668G	58.21	74.00	-15.79	4.41	3	Horizontal	180	1.49	-

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5300MHz_TX

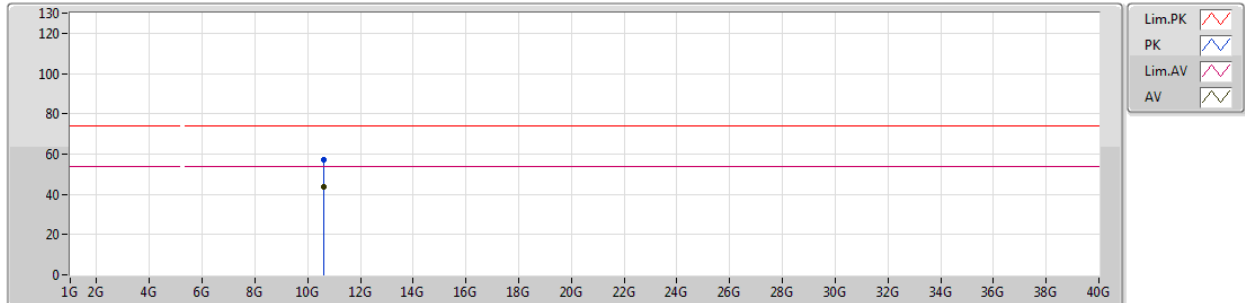


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.5874G	43.88	54.00	-10.12	14.64	3	Vertical	311	1.50	-								
PK	10.5862G	57.64	74.00	-16.36	14.64	3	Vertical	311	1.50	-								

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5300MHz_TX

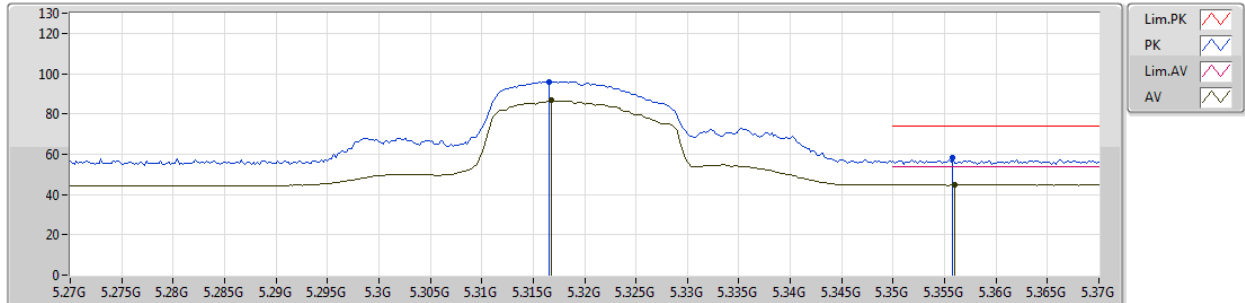


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.6084G	43.88	54.00	-10.12	14.69	3	Horizontal	173	2.12	-
PK	10.60546G	57.33	74.00	-16.67	14.69	3	Horizontal	173	2.12	-

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5320MHz_TX

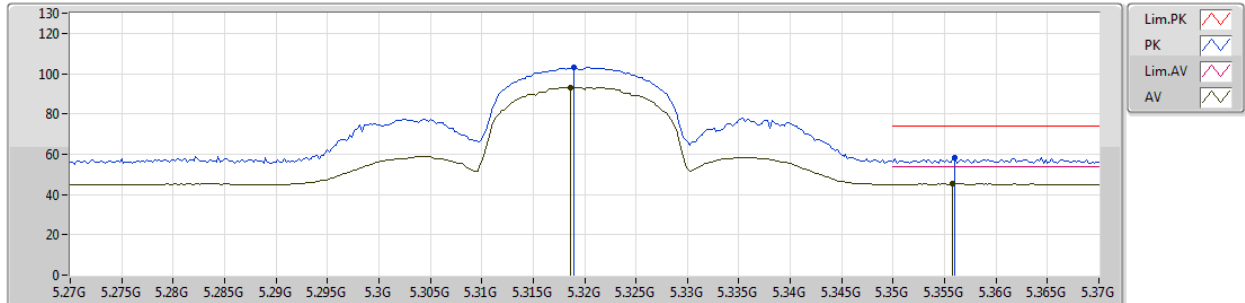


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.3168G	86.59	Inf	-Inf	4.34	3	Vertical	151	1.18	-
AV	5.356G	44.89	54.00	-9.11	4.40	3	Vertical	151	1.18	-
PK	5.3166G	96.01	Inf	-Inf	4.34	3	Vertical	151	1.18	-
PK	5.3558G	58.18	74.00	-15.82	4.40	3	Vertical	151	1.18	-

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5320MHz_TX

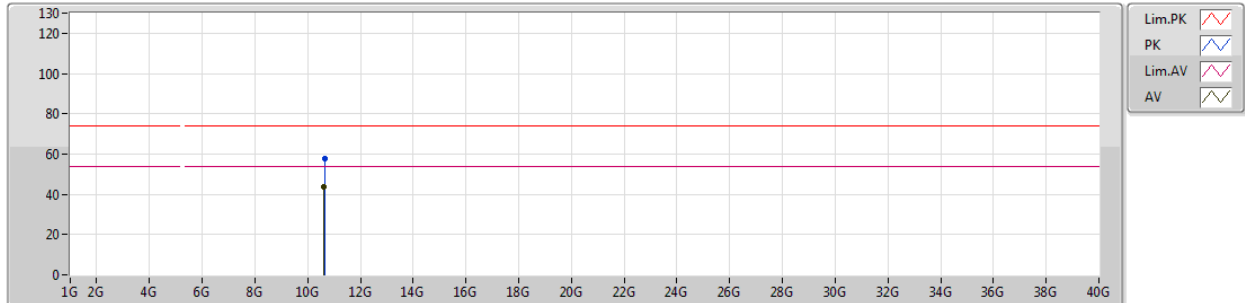


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.3186G	93.24	Inf	-Inf	4.35	3	Horizontal	181	1.50	-
AV	5.3558G	45.27	54.00	-8.73	4.40	3	Horizontal	181	1.50	-
PK	5.319G	103.22	Inf	-Inf	4.35	3	Horizontal	181	1.50	-
PK	5.356G	58.52	74.00	-15.48	4.40	3	Horizontal	181	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5320MHz_TX

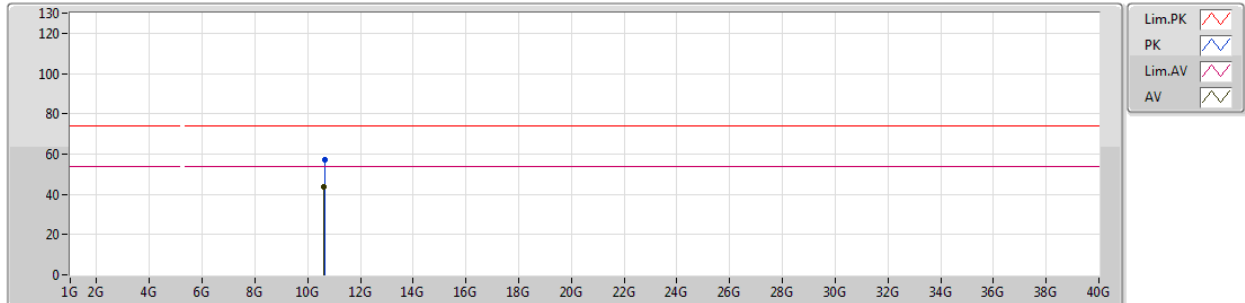


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.62656G	43.62	54.00	-10.38	14.73	3	Vertical	330	2.28	-								
PK	10.64948G	57.55	74.00	-16.45	14.79	3	Vertical	330	2.28	-								

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5320MHz_TX

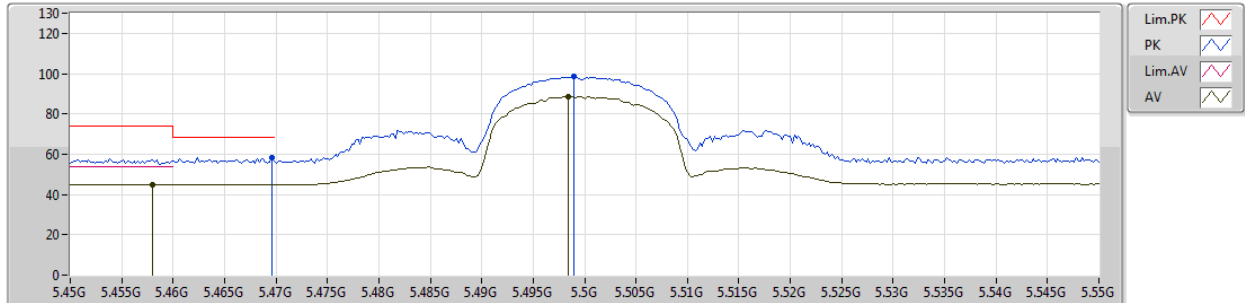


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.62752G	43.54	54.00	-10.46	14.73	3	Horizontal	306	1.46	-								
PK	10.64216G	57.36	74.00	-16.64	14.77	3	Horizontal	306	1.46	-								

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5500MHz_TX

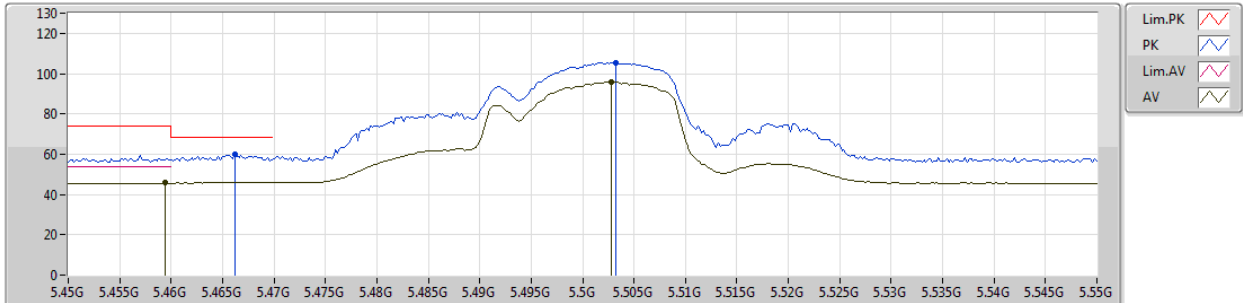


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.458G	45.07	54.00	-8.93	4.52	3	Vertical	128	1.01	-
AV	5.4984G	88.64	Inf	-Inf	4.58	3	Vertical	128	1.01	-
PK	5.4696G	58.23	68.20	-9.97	4.54	3	Vertical	128	1.01	-
PK	5.499G	98.49	Inf	-Inf	4.58	3	Vertical	128	1.01	-

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5500MHz_TX

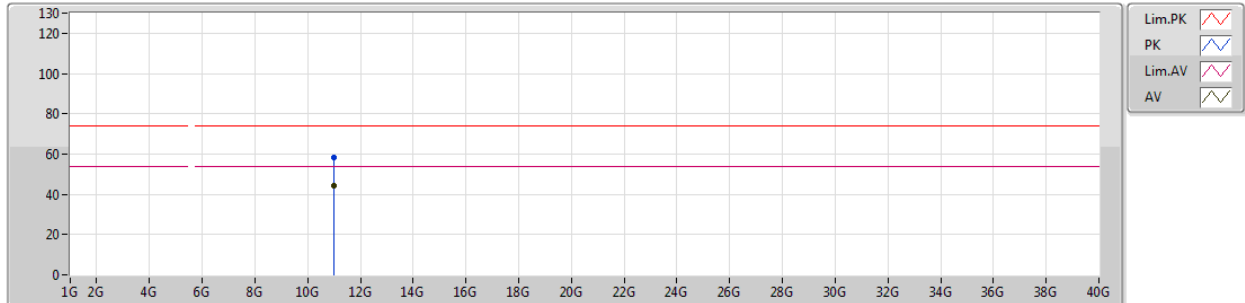


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.4594G	45.69	54.00	-8.31	4.53	3	Horizontal	199	2.99	-
AV	5.5028G	95.96	Inf	-Inf	4.58	3	Horizontal	199	2.99	-
PK	5.4662G	59.97	68.20	-8.23	4.54	3	Horizontal	199	2.99	-
PK	5.5032G	105.59	Inf	-Inf	4.58	3	Horizontal	199	2.99	-

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5500MHz_TX

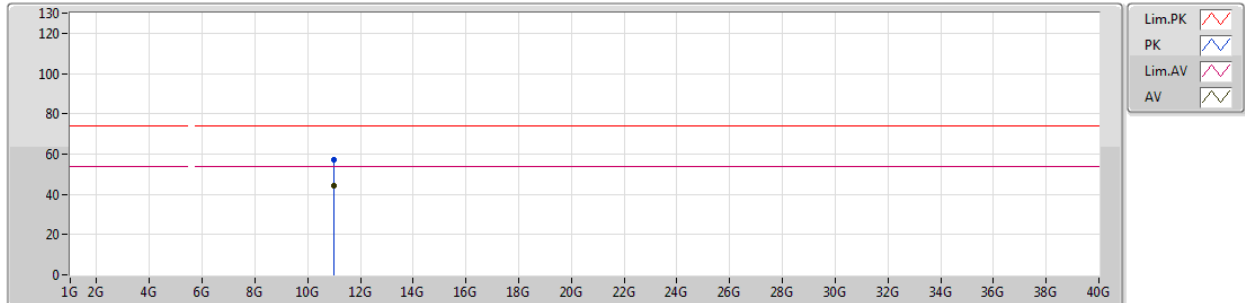


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.98524G	44.10	54.00	-9.90	15.58	3	Vertical	330	1.21	-								
PK	10.98812G	58.02	74.00	-15.98	15.59	3	Vertical	330	1.21	-								

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5500MHz_TX

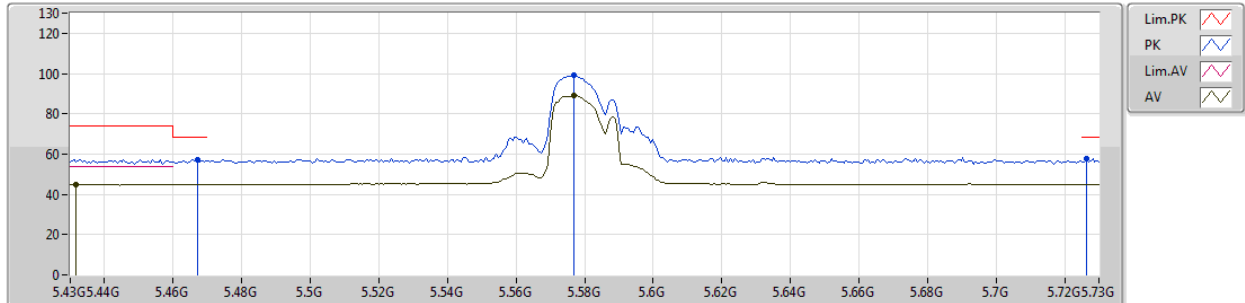


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.98686G	44.07	54.00	-9.93	15.58	3	Horizontal	321	1.92	-								
PK	10.99628G	57.31	74.00	-16.69	15.61	3	Horizontal	321	1.92	-								

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5580MHz_TX

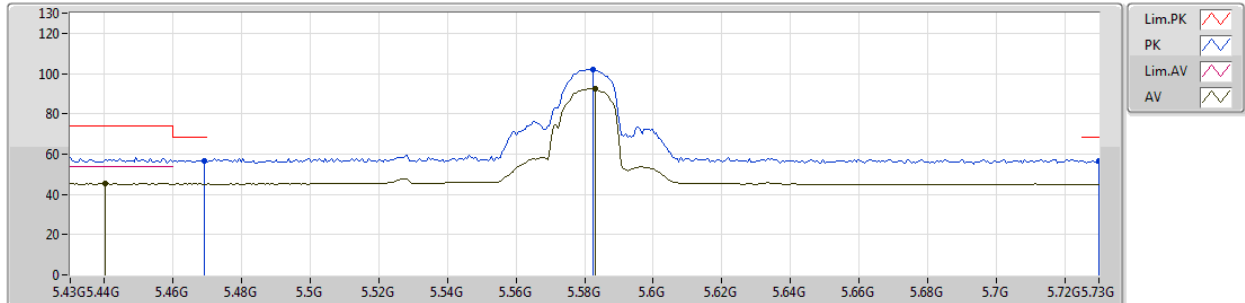


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.4318G	44.88	54.00	-9.12	4.49	3	Vertical	129	1.03	-
AV	5.577G	89.28	Inf	-Inf	4.72	3	Vertical	129	1.03	-
PK	5.4672G	57.38	68.20	-10.82	4.54	3	Vertical	129	1.03	-
PK	5.577G	99.07	Inf	-Inf	4.72	3	Vertical	129	1.03	-
PK	5.7264G	57.64	68.20	-10.56	5.08	3	Vertical	129	1.03	-

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5580MHz_TX

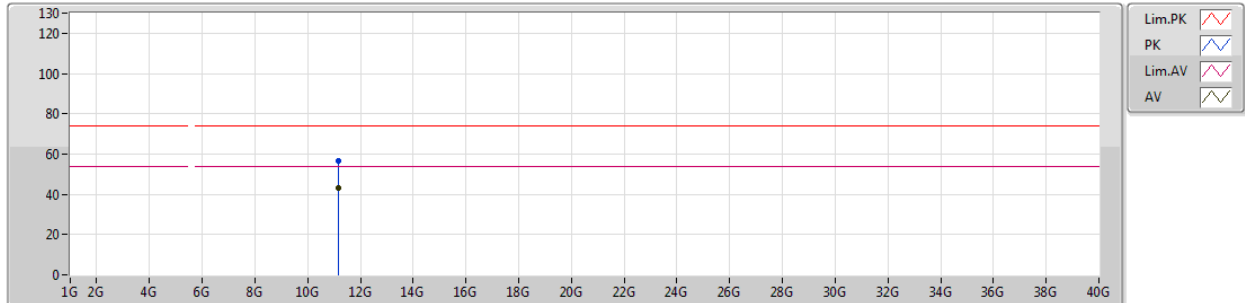


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.4402G	45.24	54.00	-8.76	4.50	3	Horizontal	235	2.12	-
AV	5.583G	92.57	Inf	-Inf	4.74	3	Horizontal	235	2.12	-
PK	5.469G	56.77	68.20	-11.43	4.54	3	Horizontal	235	2.12	-
PK	5.5824G	102.23	Inf	-Inf	4.74	3	Horizontal	235	2.12	-
PK	5.73G	56.59	68.20	-11.61	5.09	3	Horizontal	235	2.12	-

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5580MHz_TX

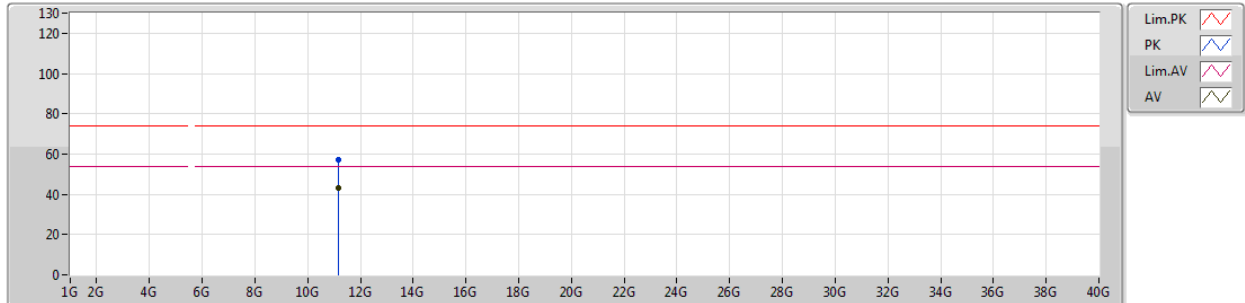


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.16792G	43.03	54.00	-10.97	15.41	3	Vertical	81	1.57	-								
PK	11.14818G	56.36	74.00	-17.64	15.44	3	Vertical	81	1.57	-								

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5580MHz_TX

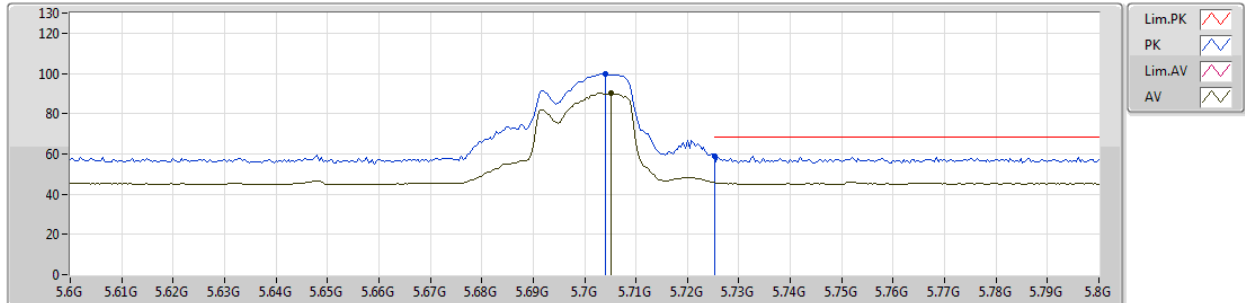


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.16378G	42.97	54.00	-11.03	15.42	3	Horizontal	131	2.43	-								
PK	11.17308G	56.93	74.00	-17.07	15.40	3	Horizontal	131	2.43	-								

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5700MHz_TX

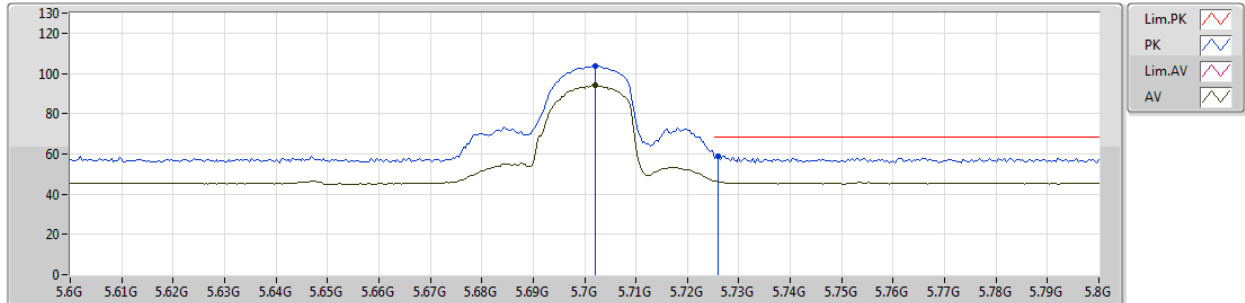


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7052G	89.99	Inf	-Inf	5.04	3	Vertical	65	2.90	-
PK	5.704G	99.58	Inf	-Inf	5.04	3	Vertical	65	2.90	-
PK	5.7252G	58.86	68.20	-9.34	5.08	3	Vertical	65	2.90	-

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5700MHz_TX

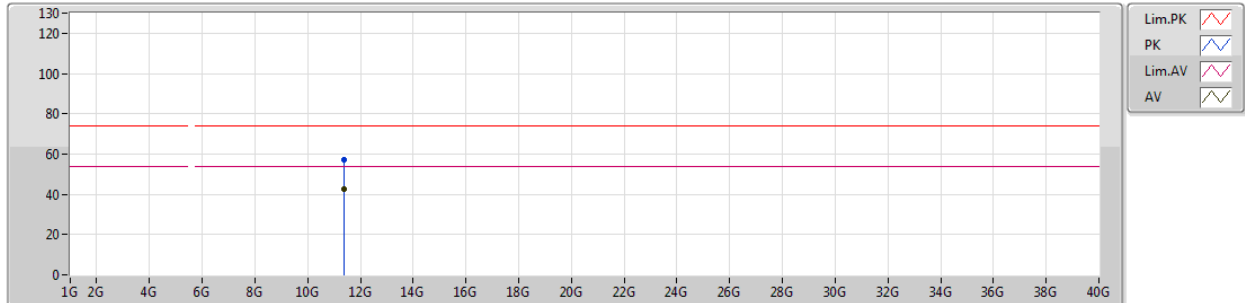


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	5.702G	93.89	Inf	-Inf	5.02	3	Horizontal	207	2.90	-								
PK	5.702G	103.60	Inf	-Inf	5.02	3	Horizontal	207	2.90	-								
PK	5.726G	58.95	68.20	-9.25	5.08	3	Horizontal	207	2.90	-								

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5700MHz_TX

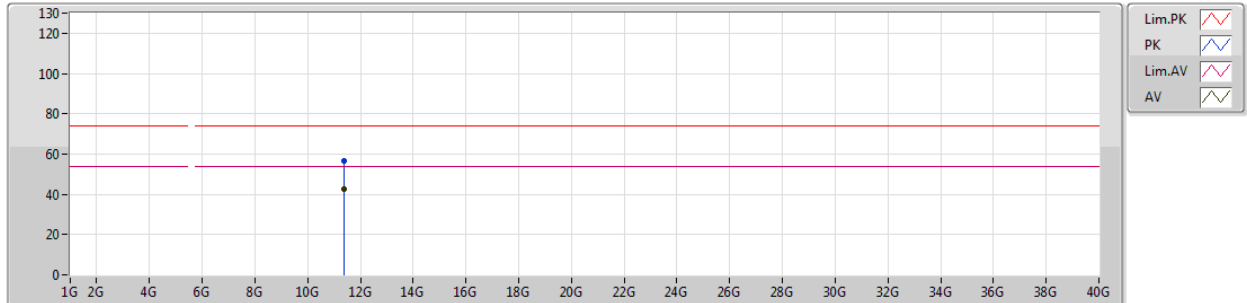


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.39466G	42.62	54.00	-11.38	15.15	3	Vertical	333	1.98	-								
PK	11.39328G	56.94	74.00	-17.06	15.15	3	Vertical	333	1.98	-								

802.11n HT20_Nss1,(MCS0)_2TX

24/01/2019

5700MHz_TX

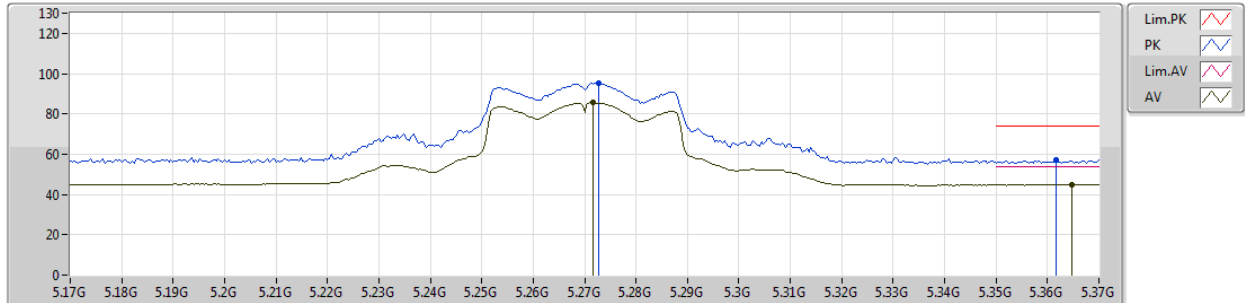


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.39106G	42.67	54.00	-11.33	15.15	3	Horizontal	242	2.40	-								
PK	11.39544G	56.38	74.00	-17.62	15.15	3	Horizontal	242	2.40	-								

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5270MHz_TX

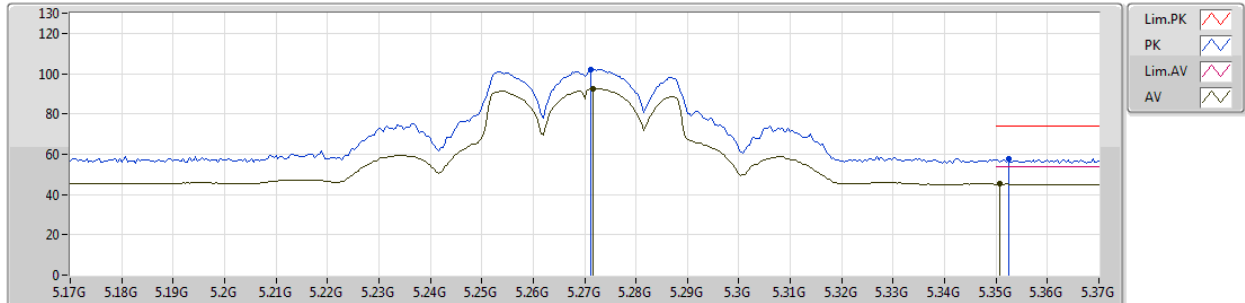


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.2716G	85.75	Inf	-Inf	4.29	3	Vertical	144	1.06	-
AV	5.3648G	44.88	54.00	-9.12	4.41	3	Vertical	144	1.06	-
PK	5.2728G	95.10	Inf	-Inf	4.29	3	Vertical	144	1.06	-
PK	5.3616G	57.15	74.00	-16.85	4.41	3	Vertical	144	1.06	-

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5270MHz_TX

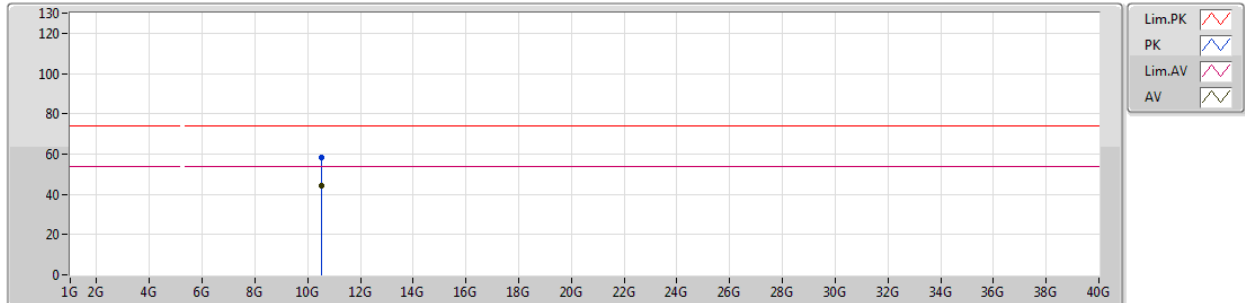


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.2716G	92.52	Inf	-Inf	4.29	3	Horizontal	182	1.00	-
AV	5.3508G	45.20	54.00	-8.80	4.39	3	Horizontal	182	1.00	-
PK	5.2712G	101.88	Inf	-Inf	4.29	3	Horizontal	182	1.00	-
PK	5.3524G	57.90	74.00	-16.10	4.39	3	Horizontal	182	1.00	-

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5270MHz_TX

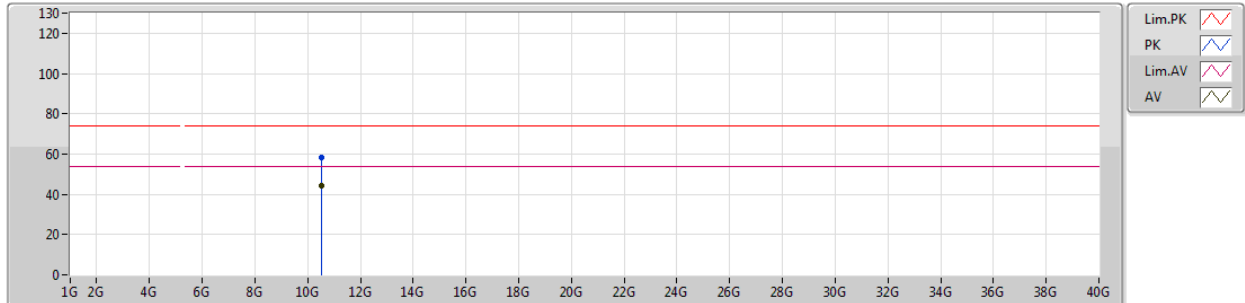


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.52872G	44.22	54.00	-9.78	14.50	3	Vertical	266	1.88	-								
PK	10.54288G	58.26	74.00	-15.74	14.54	3	Vertical	266	1.88	-								

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5270MHz_TX

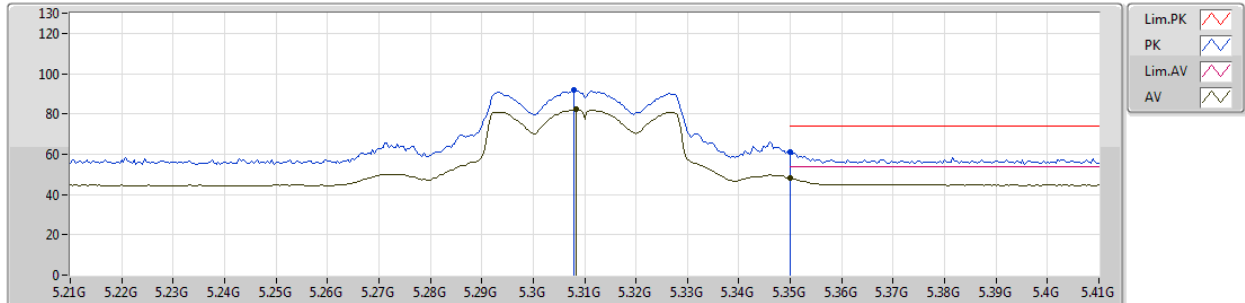


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.54006G	44.35	54.00	-9.65	14.54	3	Horizontal	150	1.61	-								
PK	10.5319G	58.36	74.00	-15.64	14.51	3	Horizontal	150	1.61	-								

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5310MHz_TX

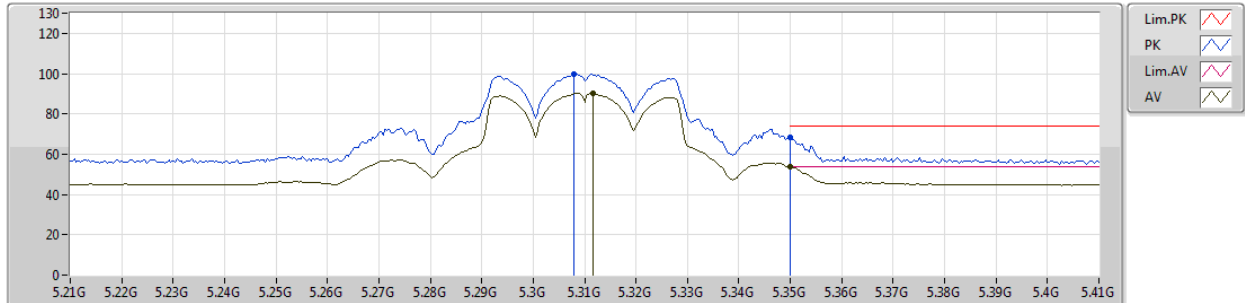


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.3084G	82.10	Inf	-Inf	4.34	3	Vertical	149	1.50	-
AV	5.35G	48.17	54.00	-5.83	4.39	3	Vertical	149	1.50	-
PK	5.308G	92.08	Inf	-Inf	4.33	3	Vertical	149	1.50	-
PK	5.35G	61.24	74.00	-12.76	4.39	3	Vertical	149	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5310MHz_TX

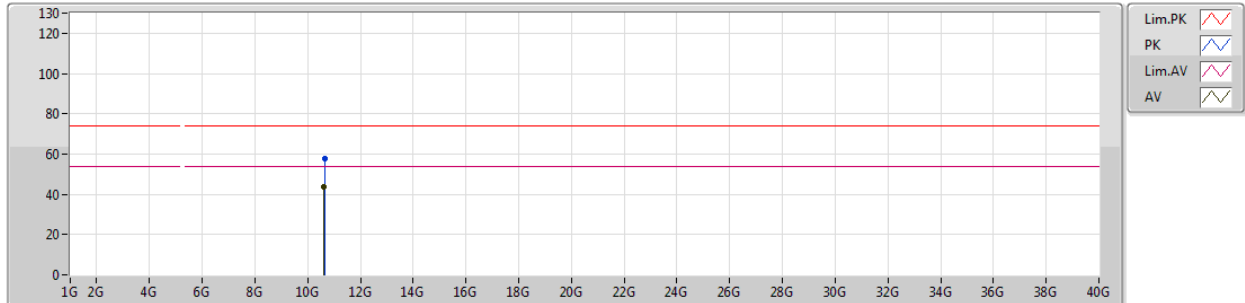


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.3116G	90.08	Inf	-Inf	4.34	3	Horizontal	182	1.49	-
AV	5.35G	53.59	54.00	-0.41	4.39	3	Horizontal	182	1.49	-
PK	5.308G	99.85	Inf	-Inf	4.33	3	Horizontal	182	1.49	-
PK	5.35G	68.52	74.00	-5.48	4.39	3	Horizontal	182	1.49	-

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5310MHz_TX

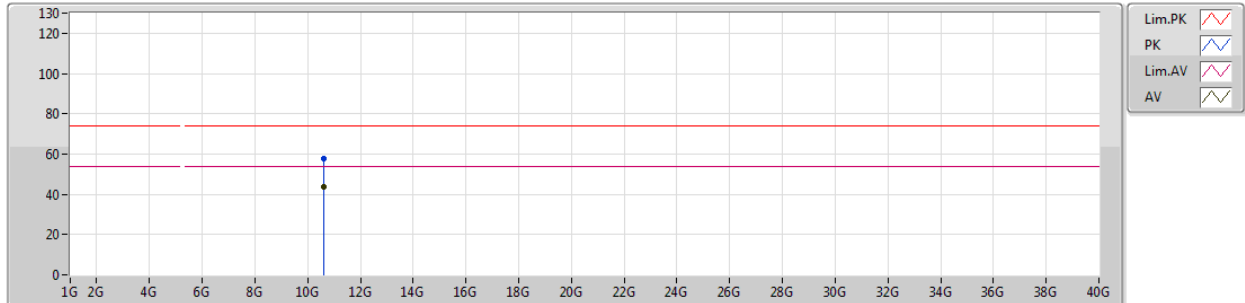


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.61556G	43.66	54.00	-10.34	14.71	3	Vertical	315	1.46	-								
PK	10.63434G	57.46	74.00	-16.54	14.76	3	Vertical	315	1.46	-								

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5310MHz_TX

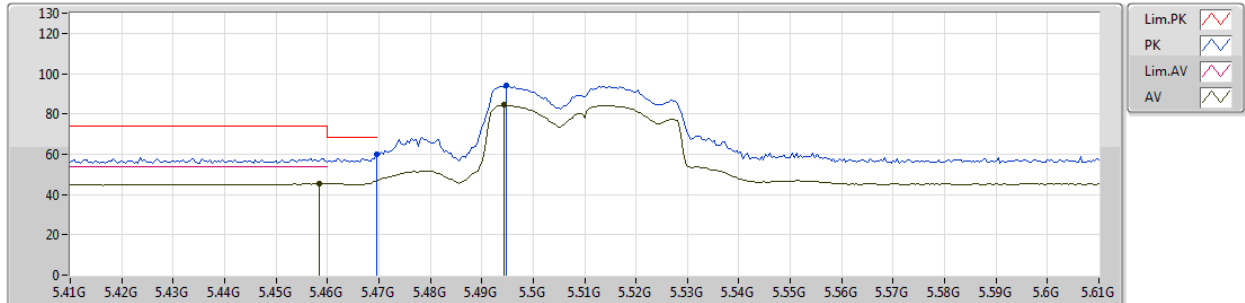


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.61034G	43.71	54.00	-10.29	14.70	3	Horizontal	138	1.02	-								
PK	10.61142G	57.59	74.00	-16.41	14.70	3	Horizontal	138	1.02	-								

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5510MHz_TX

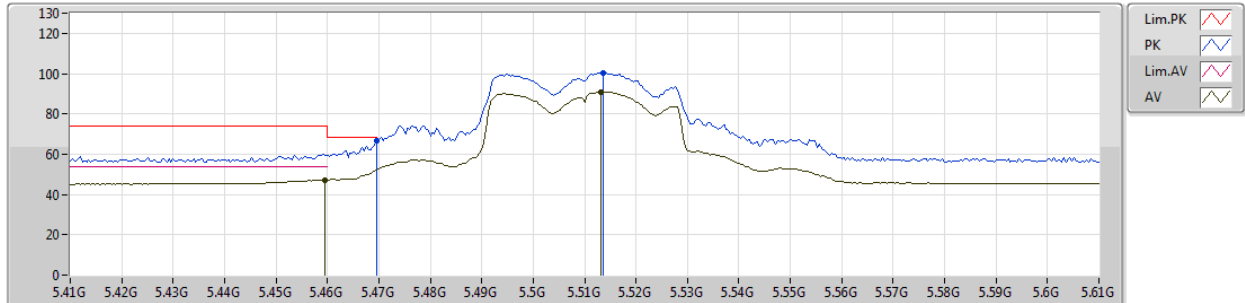


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.4584G	45.35	54.00	-8.65	4.53	3	Vertical	140	1.01	-
AV	5.4944G	84.45	Inf	-Inf	4.58	3	Vertical	140	1.01	-
PK	5.4696G	59.72	68.20	-8.48	4.54	3	Vertical	140	1.01	-
PK	5.4948G	94.06	Inf	-Inf	4.58	3	Vertical	140	1.01	-

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5510MHz_TX

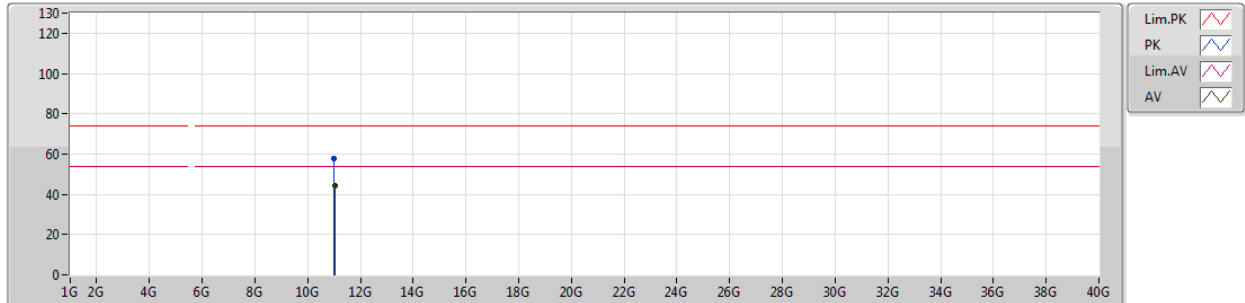


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.4596G	47.29	54.00	-6.71	4.53	3	Horizontal	180	1.01	-
AV	5.5132G	90.80	Inf	-Inf	4.61	3	Horizontal	180	1.01	-
PK	5.4696G	66.81	68.20	-1.39	4.54	3	Horizontal	180	1.01	-
PK	5.5136G	100.46	Inf	-Inf	4.61	3	Horizontal	180	1.01	-

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5510MHz_TX

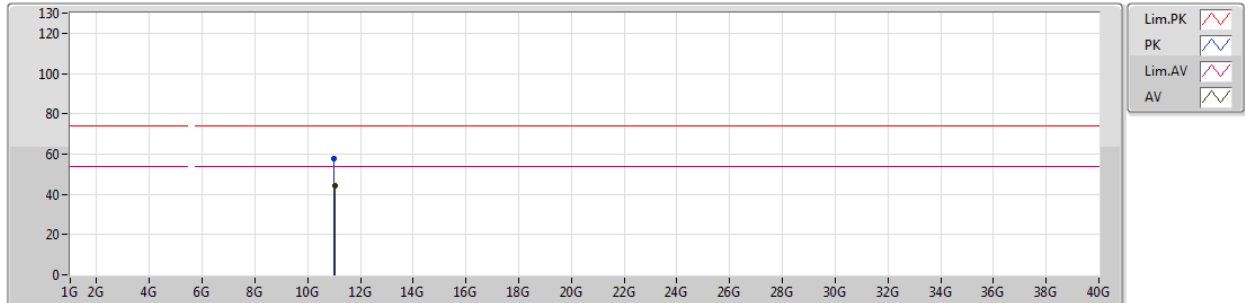


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.0203G	44.11	54.00	-9.89	15.59	3	Vertical	257	1.66	-								
PK	11.00662G	57.79	74.00	-16.21	15.60	3	Vertical	257	1.66	-								

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5510MHz_TX

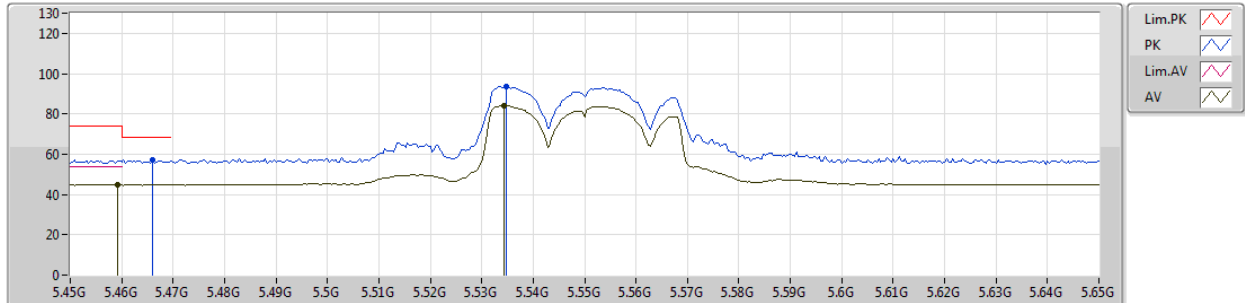


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.0302G	44.04	54.00	-9.96	15.57	3	Horizontal	202	2.13	-
PK	11.0125G	57.54	74.00	-16.46	15.59	3	Horizontal	202	2.13	-

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5550MHz_TX

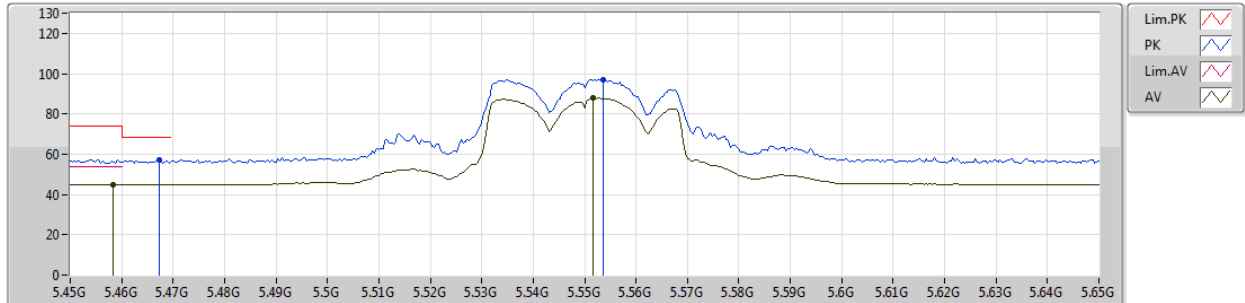


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.4592G	44.82	54.00	-9.18	4.53	3	Vertical	159	1.01	-
AV	5.5344G	84.11	Inf	-Inf	4.64	3	Vertical	159	1.01	-
PK	5.466G	57.31	68.20	-10.89	4.54	3	Vertical	159	1.01	-
PK	5.5348G	93.79	Inf	-Inf	4.64	3	Vertical	159	1.01	-

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5550MHz_TX

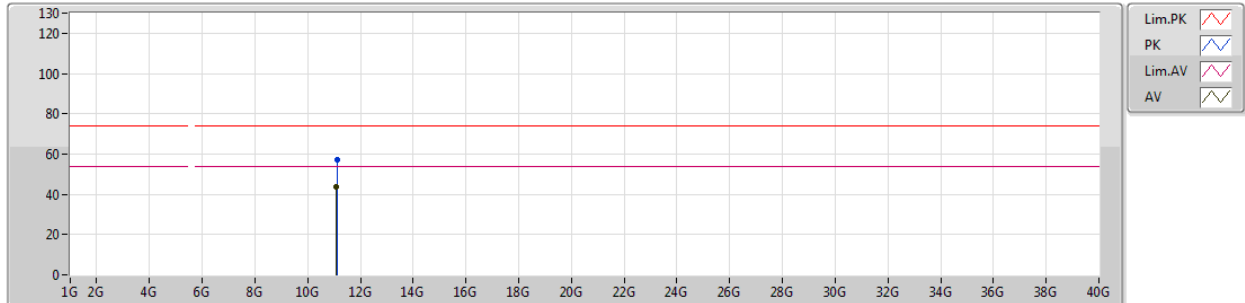


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.4584G	45.08	54.00	-8.92	4.53	3	Horizontal	237	1.50	-
AV	5.5516G	87.77	Inf	-Inf	4.68	3	Horizontal	237	1.50	-
PK	5.4672G	56.89	68.20	-11.31	4.54	3	Horizontal	237	1.50	-
PK	5.5536G	97.17	Inf	-Inf	4.69	3	Horizontal	237	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5550MHz_TX

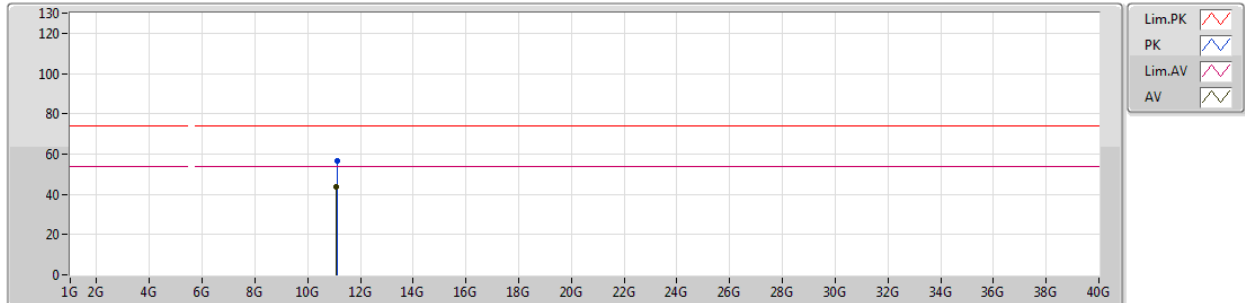


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.0853G	43.47	54.00	-10.53	15.52	3	Vertical	350	2.10	-								
PK	11.1036G	57.08	74.00	-16.92	15.49	3	Vertical	350	2.10	-								

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5550MHz_TX

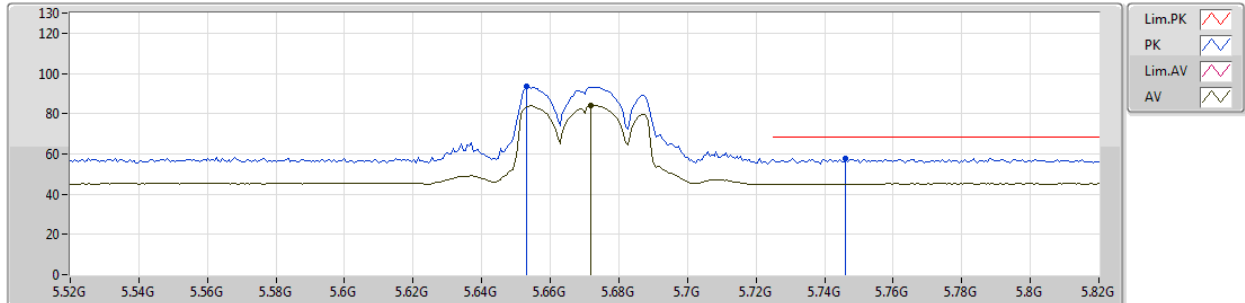


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.08794G	43.52	54.00	-10.48	15.51	3	Horizontal	290	1.08	-
PK	11.10912G	56.50	74.00	-17.50	15.48	3	Horizontal	290	1.08	-

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5670MHz_TX

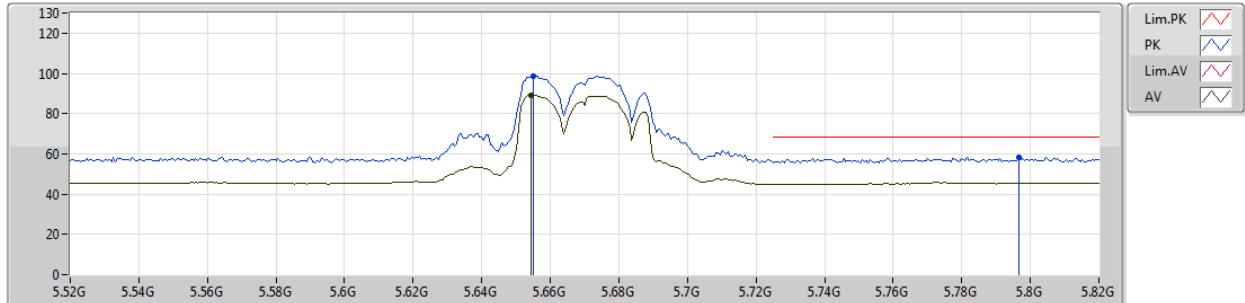


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.6718G	83.97	Inf	-Inf	4.95	3	Vertical	131	1.01	-
PK	5.6532G	93.35	Inf	-Inf	4.90	3	Vertical	131	1.01	-
PK	5.7462G	57.85	68.20	-10.35	5.13	3	Vertical	131	1.01	-

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5670MHz_TX

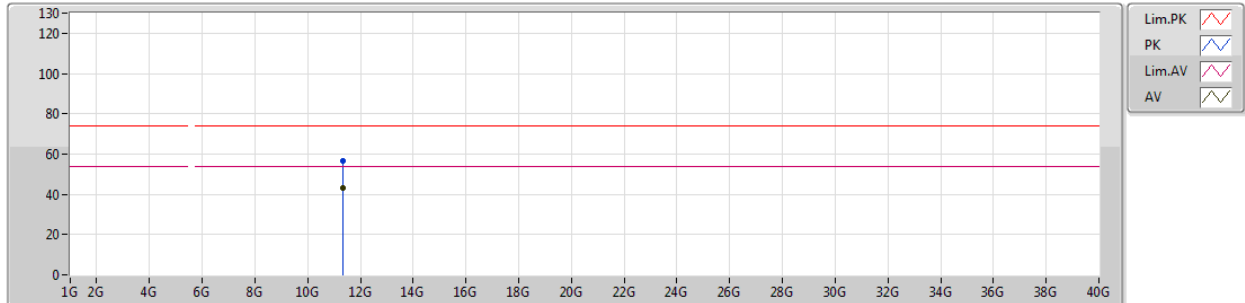


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments							
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)								
AV	5.6544G	89.10	Inf	-Inf	4.91	3	Horizontal	186	2.95	-							
PK	5.655G	98.37	Inf	-Inf	4.91	3	Horizontal	186	2.95	-							
PK	5.7966G	58.13	68.20	-10.07	5.26	3	Horizontal	186	2.95	-							

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5670MHz_TX

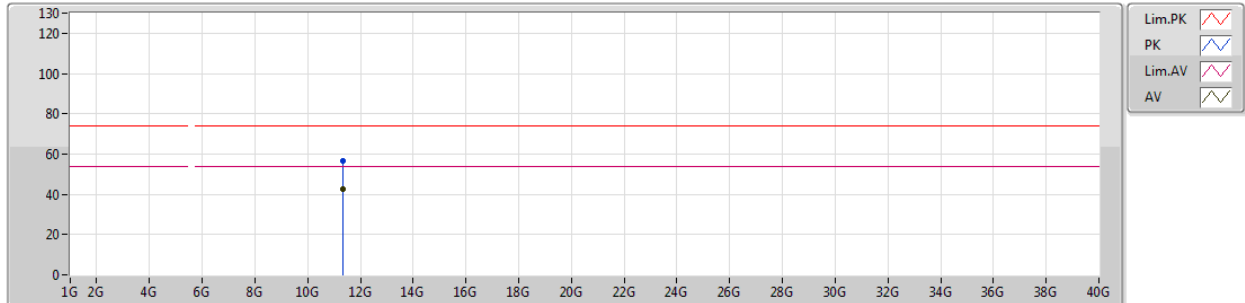


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.3256G	42.97	54.00	-11.03	15.23	3	Vertical	143	2.24	-								
PK	11.34528G	56.36	74.00	-17.64	15.22	3	Vertical	143	2.24	-								

802.11n HT40_Nss1,(MCS0)_2TX

24/01/2019

5670MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.32608G	42.79	54.00	-11.21	15.23	3	Horizontal	254	1.56	-								
PK	11.33718G	56.61	74.00	-17.39	15.22	3	Horizontal	254	1.56	-								