

FCC Test Report

FCC ID : SSA-JW2212
Equipment : Industrial Dual 802.11n 2.4G/5G 2T2R MIMO Wireless AP
Brand Name : Korenix
Model Name : JetWave 2212-EU, JetWave 2212S-EU, JetWave 2212X-EU
Applicant / Manufacturer : Korenix Technology Co., Ltd.
14F, No.213, Sec. 3, Beixin Rd., Xindian Dist.,
New Taipei City 23143, Taiwan (R.O.C.)
Standard : 47 CFR FCC Part 15.407

The product was received on May 22, 2018, and testing was started from Aug. 28, 2018 and completed on Sep. 07, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

[illegible]

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	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Conducted Output Power	PASS	-
3.4	15.407(a)	Peak Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Reviewed by: Sam Chen

Report Producer: Ann Hou

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.15-5.25GHz	802.11n HT40	40	2TX
5.725-5.85GHz	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.	Brand	Model Name	Antenna Type	Connector
1	-	-	Dipole	Reverse SMA
2	-	-	Dipole	Reverse SMA

Ant.	Port	Gain (dBi)		
		2.4G	5G-U-NII-1	5G-U-NII-3
1	1	2	3	3
2	2	2	3	3

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

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

For 5GHz function:

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

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

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From DC power supply		
EUT Function	☐ Outdoor	☒ Indoor	
	☐ Fixed P2P	☐ Client	
Beamforming Function	☐ With beamforming	☒ Without beamforming	
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	0.956	0.195	2.029m	1k
802.11n HT20	0.955	0.2	1.889m	1k
802.11n HT40	0.93	0.315	930u	3k

1.1.5 Table for Multiple Listing

The brand/model names in the following table are all refer to the identical product.

Brand Name	Model Name	Description
Korenix	JetWave 2212-EU	Full I/O, Full function
	JetWave 2212S-EU	Remove 2 Switches
	JetWave 2212X-EU	Remove 2 Switches and serial port

Note : JetWave 2212S-EU configuration was pretested and found to be the worst case and measured during the test.

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	TH01-HY	Dexter	27°C / 58%	30/Aug/2018
Radiated	03CH09-HY	Andy	23.7°C / 61%	07/Sep/2018

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	24V

2.2 Test Channel Mode

Test Software Version	KorenixArt_v0.7.exe
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Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	17.5
5200MHz	19
5240MHz	19
5745MHz	20
5785MHz	23
5825MHz	23.5
802.11n HT20_Nss1,(MCS0)_2TX	-
5180MHz	18
5200MHz	18.5
5240MHz	18.5
5745MHz	26
5785MHz	25.5
5825MHz	27
802.11n HT40_Nss1,(MCS0)_2TX	-
5190MHz	13
5230MHz	20
5755MHz	28.5
5795MHz	27.5

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	DC power supply mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

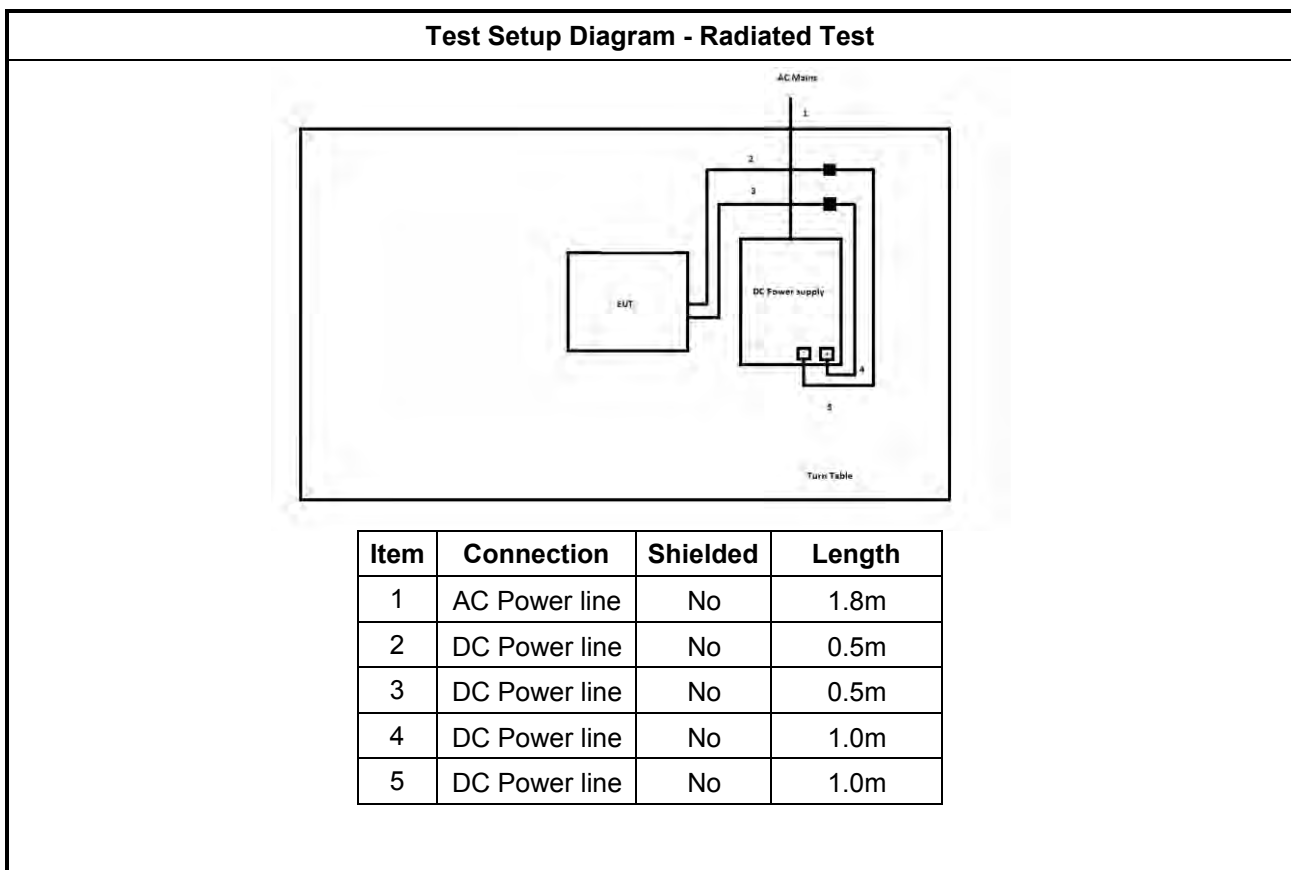
The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	WLAN 2.4GHz +WLAN 5GHz
Refer to Sporton Test Report No.: FA852105 for Co-location RF Exposure Evaluation and Appendix E for Radiated Emission Co-location.	

2.4 Support Equipment

Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	DC Power Supply	GW	GPS-3030DD	-

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	DC Power Supply	GW	GPS-3030DD	-

2.5 Test Setup Diagram



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

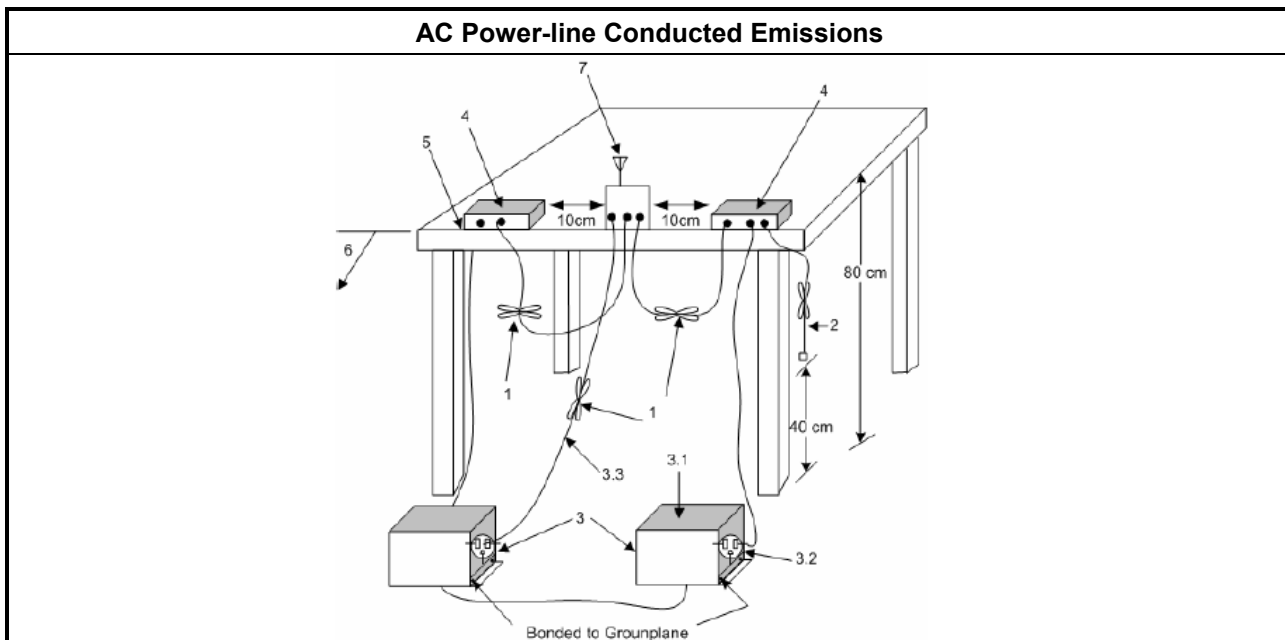
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Please refer to 15.207 which states, "Measurements to demonstrate compliance with the conducted limits are not required for devices employ DC power source for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines".

Therefore, for this device, AC Power Line Conducted Emissions investigation is not required.

3.2 Emission Bandwidth

3.2.1 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, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

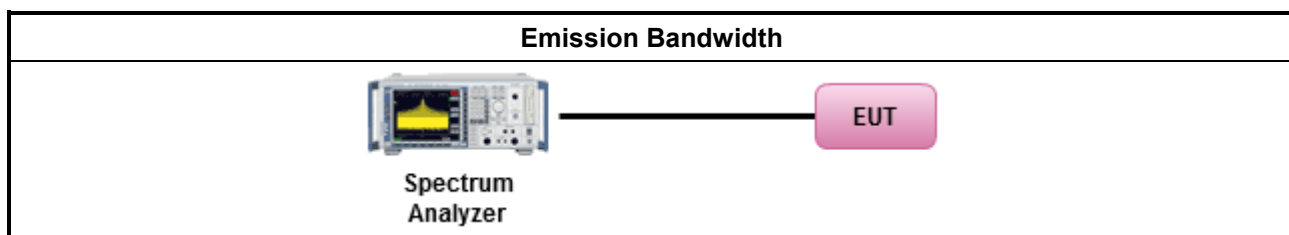
3.2.2 Measuring Instruments

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

3.2.3 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.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.3 Maximum Conducted Output Power

3.3.1 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 $11 \text{ dBm} + 10 \log B$, 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 $11 \text{ dBm} + 10 \log B$, 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.	

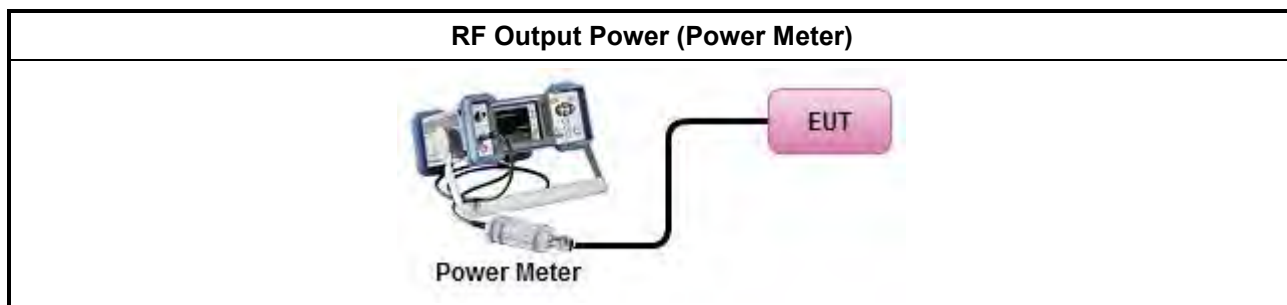
3.3.2 Measuring Instruments

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

3.3.3 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]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.4 Peak Power Spectral Density

3.4.1 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.	

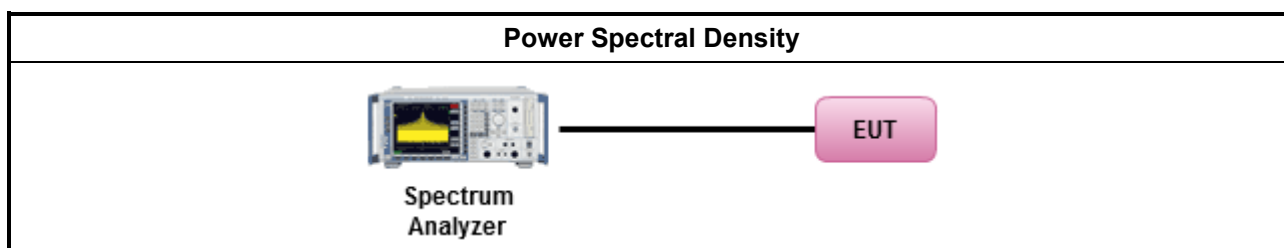
3.4.2 Measuring Instruments

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

3.4.3 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]) $EIRP_{total} = PPSD_{total} + DG$	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

3.5 Unwanted Emissions

3.5.1 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).

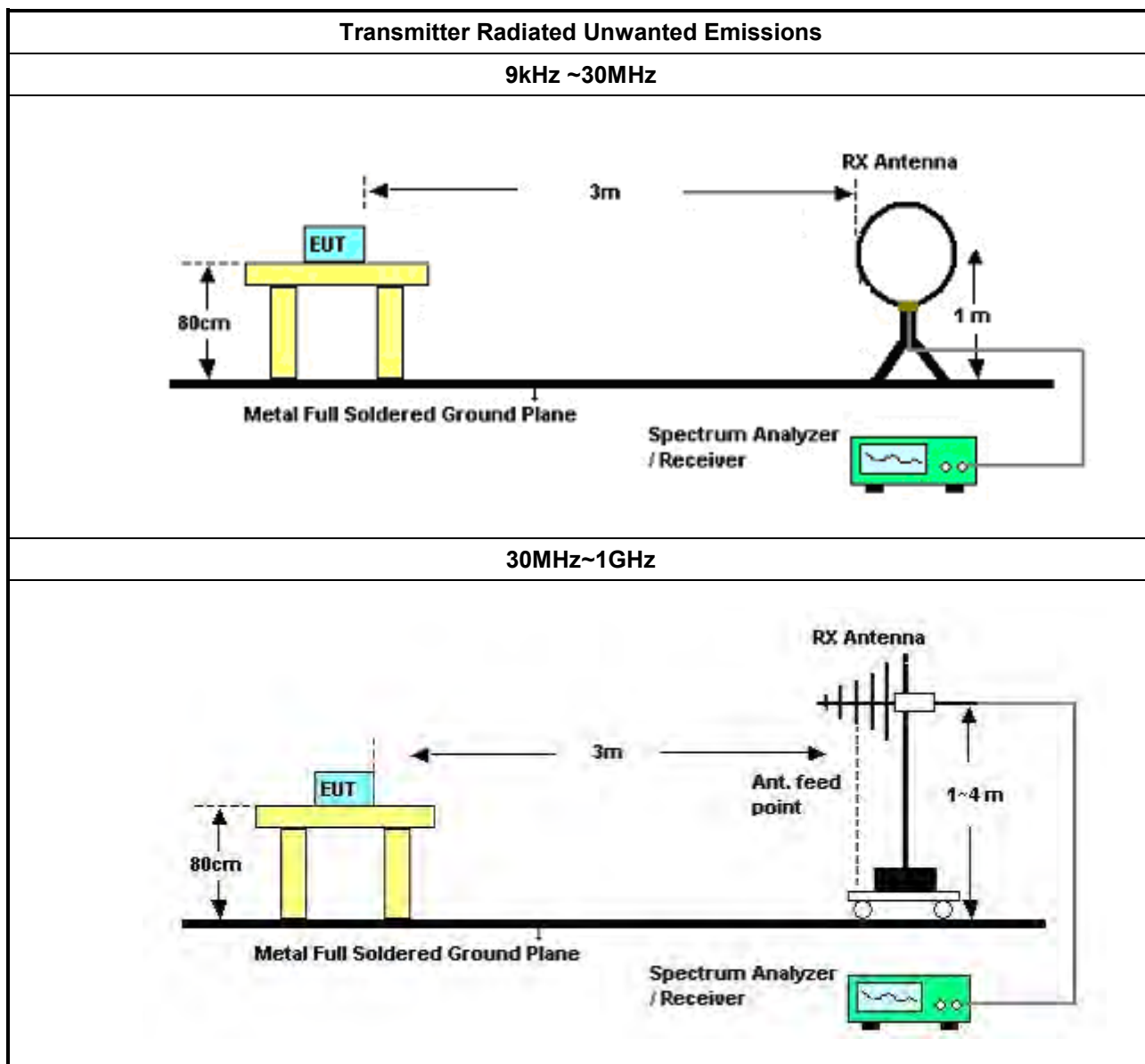
3.5.2 Measuring Instruments

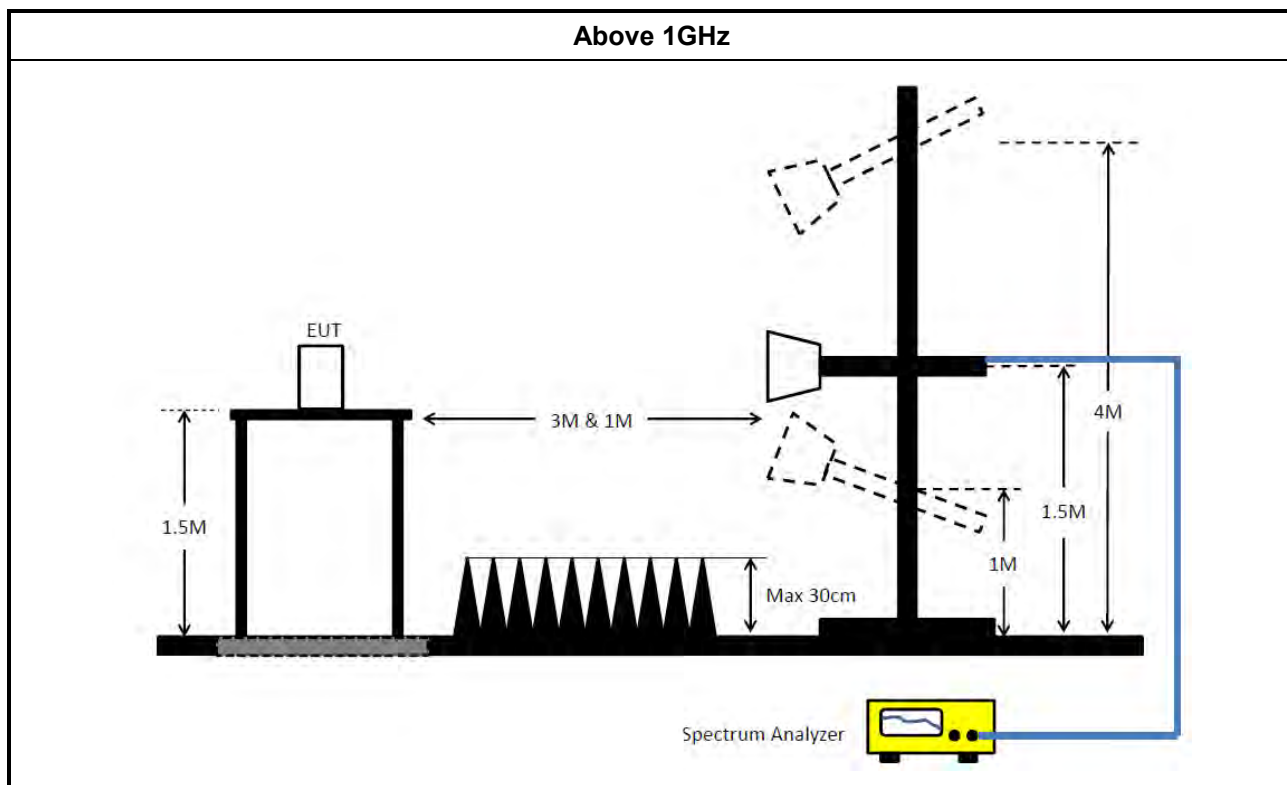
Refer a test equipment and calibration data table in this test report.

3.5.3 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.	

3.5.4 Test Setup





3.5.5 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.

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D

3.6 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	9kHz~40GHz	05/Feb/2018	04/Feb/2019
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	25/Aug/2018	24/Aug/2019
RF Cable-1m	HUBER+SUHNER	SUCOFLEX_104	MY37332/4	30MHz ~ 26.5GHz	25/Aug/2018	24/Aug/2019
RF Cable-1m	HUBER+SUHNER	SUCOFLEX_104	MY37333/4	30MHz ~ 26.5GHz	25/Aug/2018	24/Aug/2019
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	26/Jul/2018	25/Jul/2019

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	23/Apr/2018	22/Apr/2019
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	14/Jun/2018	13/Jun/2019
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	10/May/2018	09/May/2019
Amplifier	EMC	EMC9135	980232	9KHz~1GHz	27/Apr/2018	26/Apr/2019
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	31/Jul/2018	30/Jul/2019
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	09/Sep/2017	08/Sep/2018
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	30/Apr/2018	29/Apr/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	18GHz~40GHz	09/Feb/2018	08/Feb/2019
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019
RF Cable-R03m	Jye Bao	RG142	CB031	9kHz ~ 1GHz	01/Feb/2018	31/Jan/2019
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz ~ 40GHz	14/Mar/2018	13/Mar/2019

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	42.3M	19.19M	19M2D1D	28.975M	16.692M
802.11n HT20_Nss1,(MCS0)_2TX	43.475M	19.09M	19M1D1D	33.25M	17.866M
802.11n HT40_Nss1,(MCS0)_2TX	86M	37.531M	37M5D1D	44.9M	36.282M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.35M	20.115M	20M1D1D	16.275M	16.642M
802.11n HT20_Nss1,(MCS0)_2TX	17.325M	26.537M	26M5D1D	16.5M	21.639M
802.11n HT40_Nss1,(MCS0)_2TX	36.3M	58.571M	58M6D1D	35.05M	51.074M

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

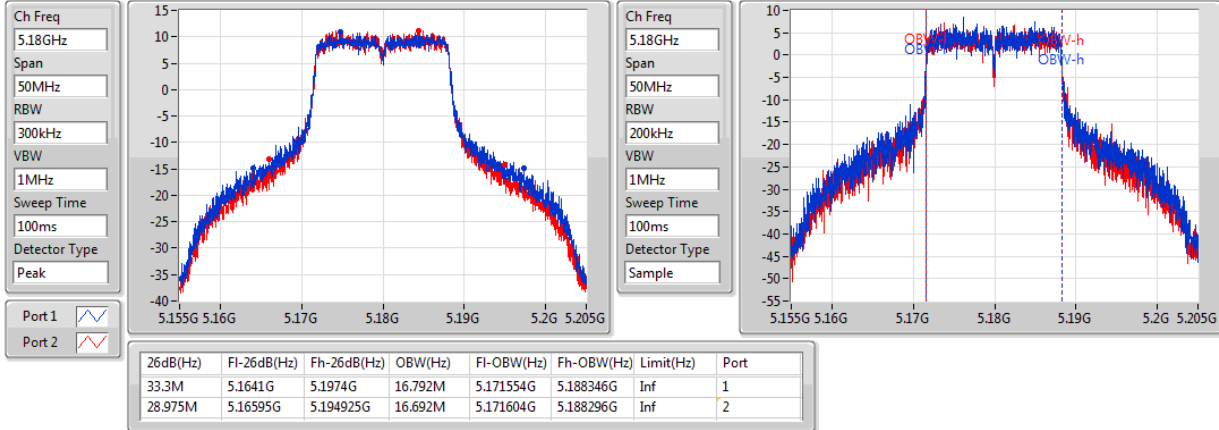
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	33.3M	16.792M	28.975M	16.692M
5200MHz_TnomVnom	Pass	Inf	40.975M	18.766M	38.7M	17.416M
5240MHz_TnomVnom	Pass	Inf	42.3M	19.19M	38.2M	17.641M
5745MHz_TnomVnom	Pass	500k	16.3M	16.792M	16.275M	16.642M
5785MHz_TnomVnom	Pass	500k	16.325M	19.69M	16.325M	17.666M
5825MHz_TnomVnom	Pass	500k	16.3M	20.115M	16.35M	17.316M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	37.175M	18.016M	33.25M	17.866M
5200MHz_TnomVnom	Pass	Inf	42.8M	18.766M	38.125M	18.091M
5240MHz_TnomVnom	Pass	Inf	43.475M	19.09M	39.95M	18.316M
5745MHz_TnomVnom	Pass	500k	16.875M	25.562M	16.5M	23.238M
5785MHz_TnomVnom	Pass	500k	17.275M	24.638M	17.325M	21.639M
5825MHz_TnomVnom	Pass	500k	17.25M	26.537M	17.25M	24.888M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	Inf	44.9M	36.282M	45.4M	36.282M
5230MHz_TnomVnom	Pass	Inf	86M	37.531M	79.6M	36.932M
5755MHz_TnomVnom	Pass	500k	36.05M	58.571M	35.65M	55.622M
5795MHz_TnomVnom	Pass	500k	36.3M	54.973M	35.05M	51.074M

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

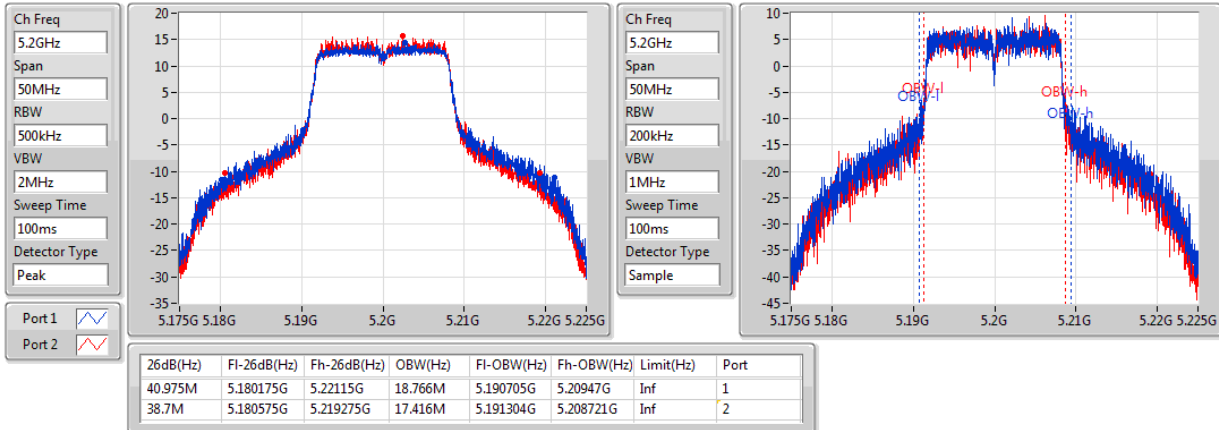
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

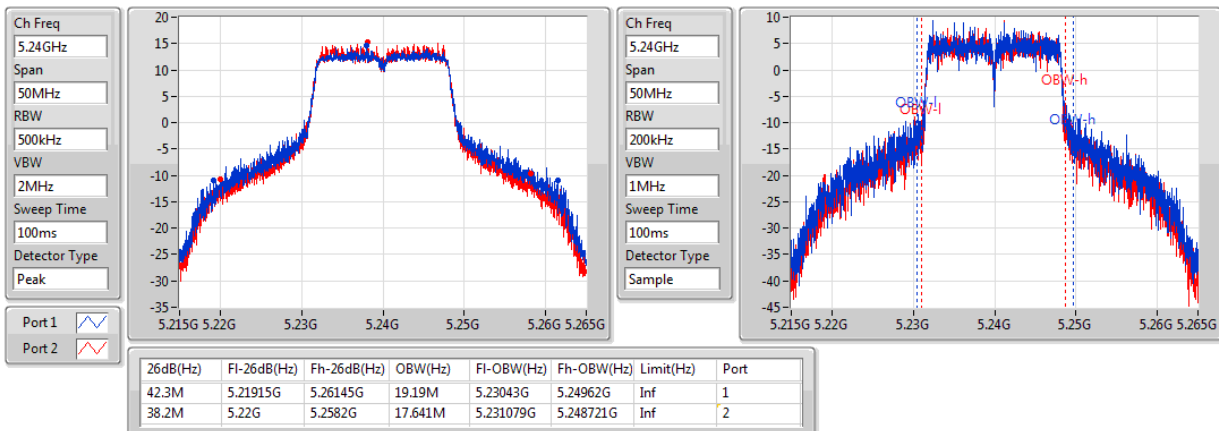
30/08/2018


802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

30/08/2018

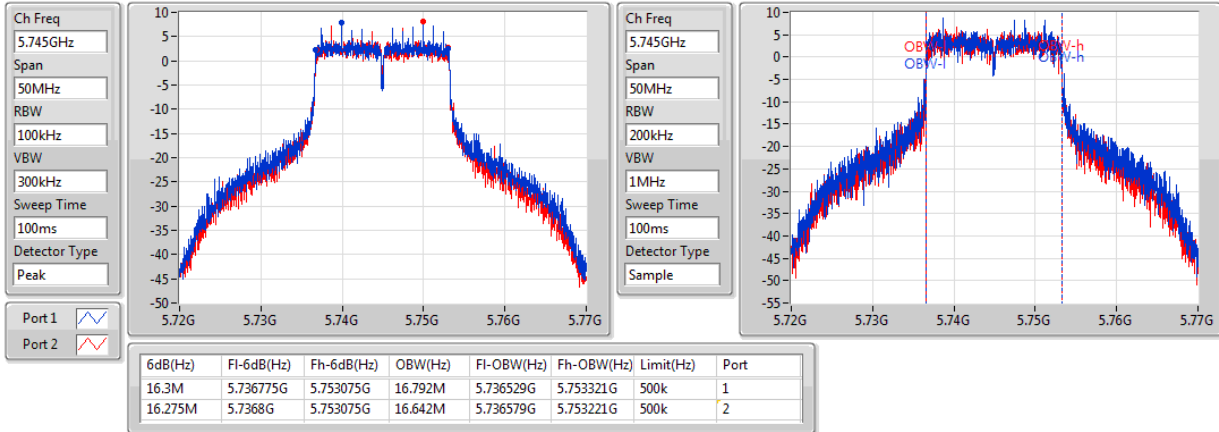

802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

30/08/2018

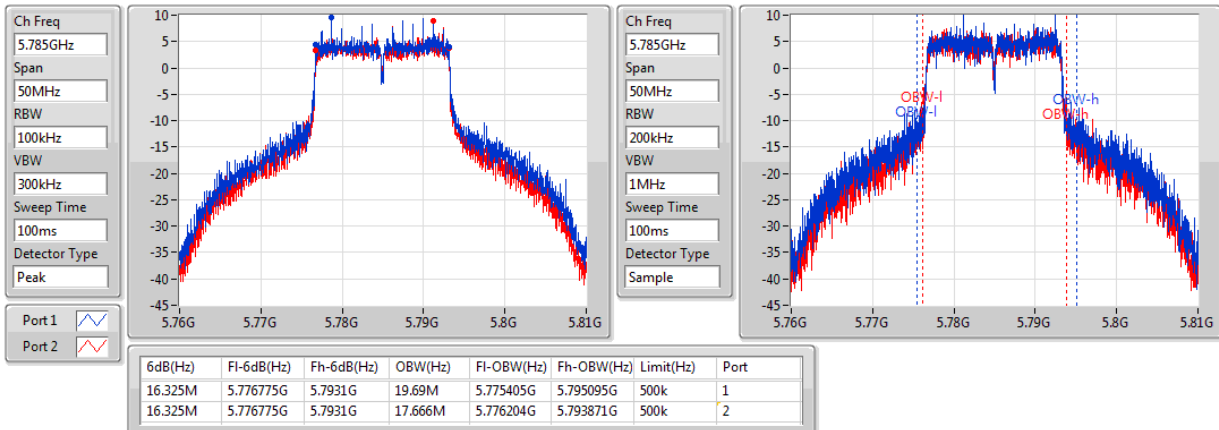


802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

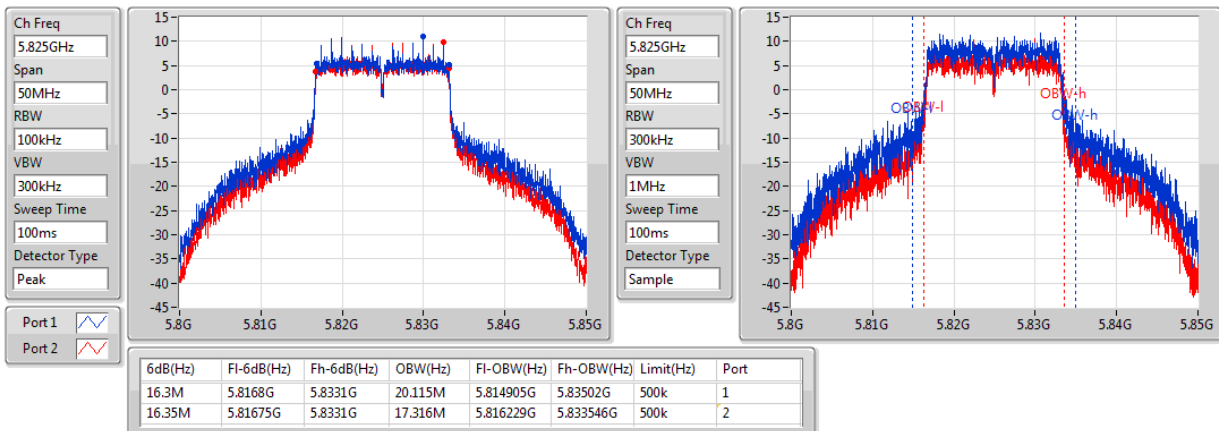
30/08/2018


802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

30/08/2018

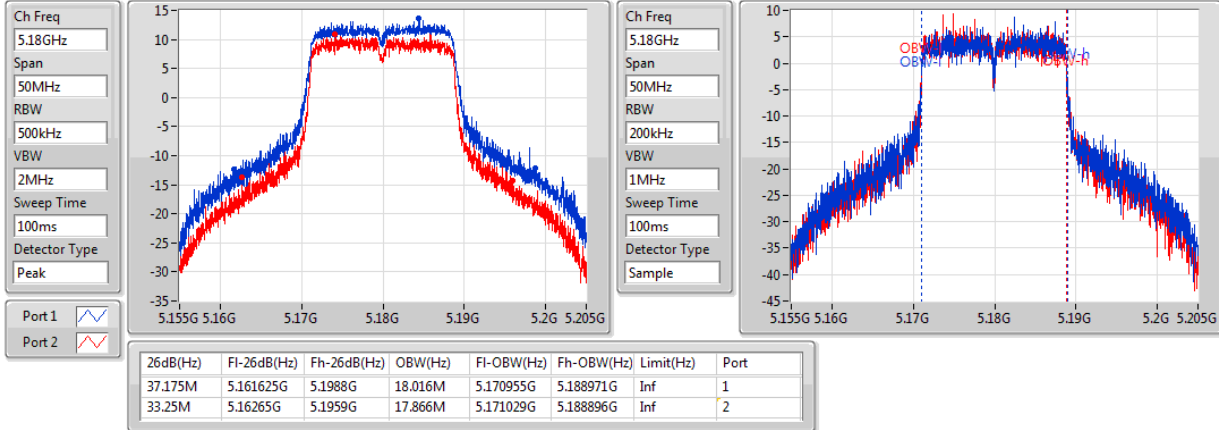

802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

30/08/2018

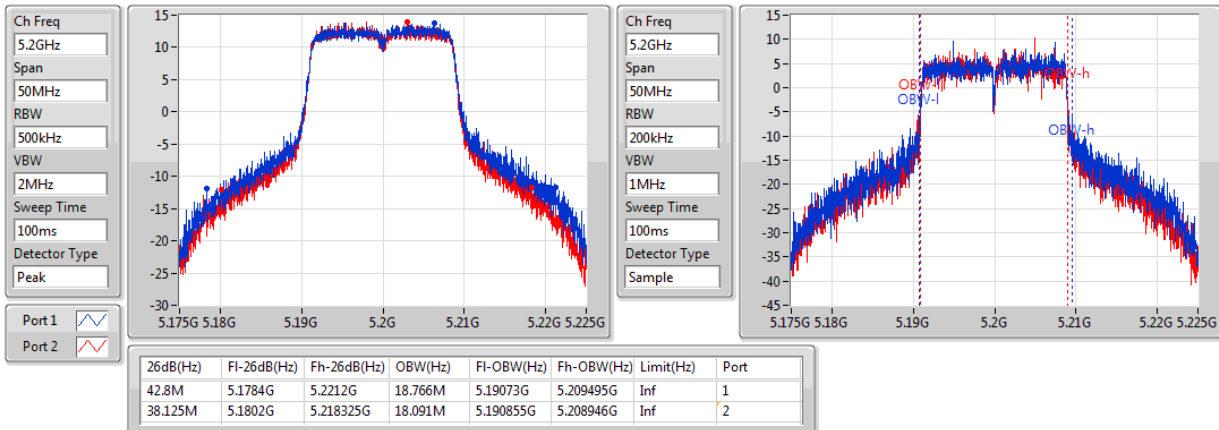


802.11n HT20_Nss1,(MCS0)_2TX
EBW
5180MHz

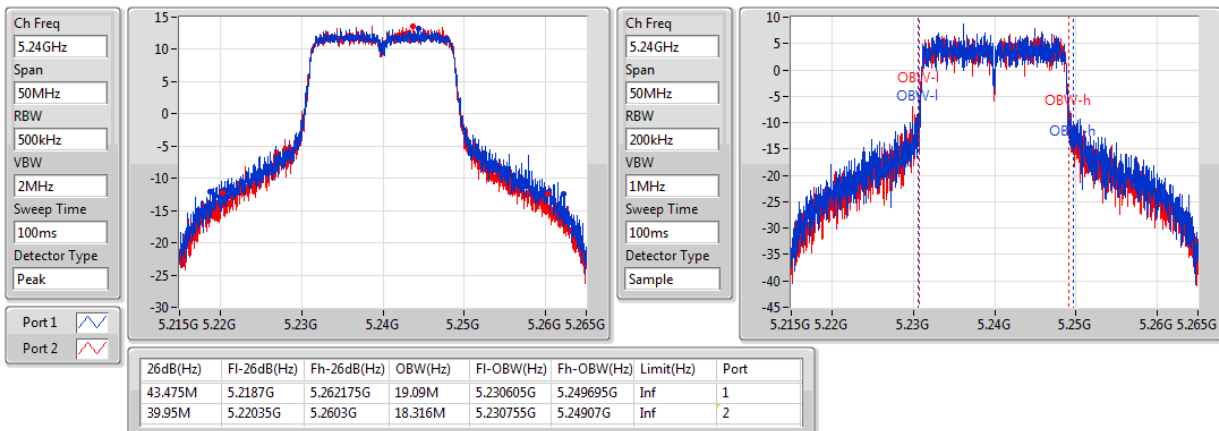
30/08/2018


802.11n HT20_Nss1,(MCS0)_2TX
EBW
5200MHz

30/08/2018

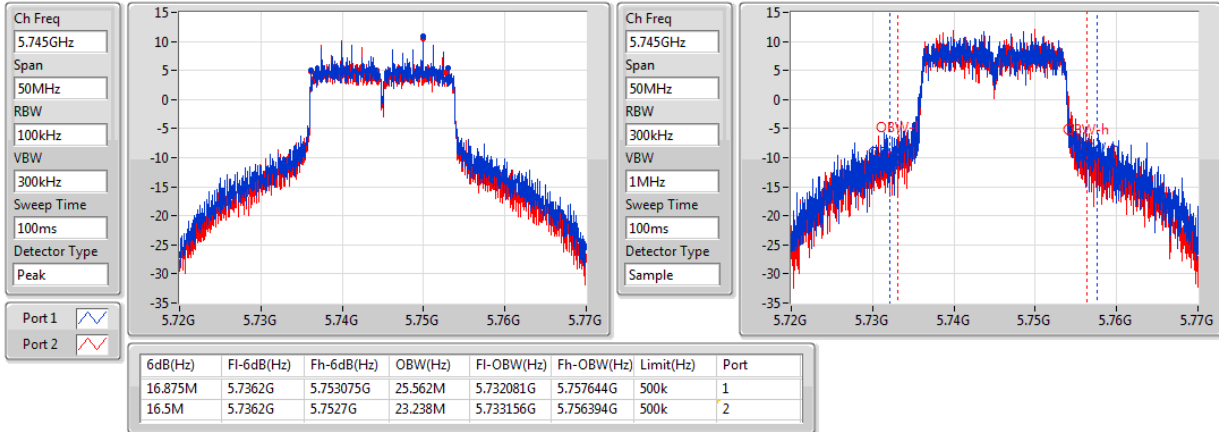

802.11n HT20_Nss1,(MCS0)_2TX
EBW
5240MHz

30/08/2018

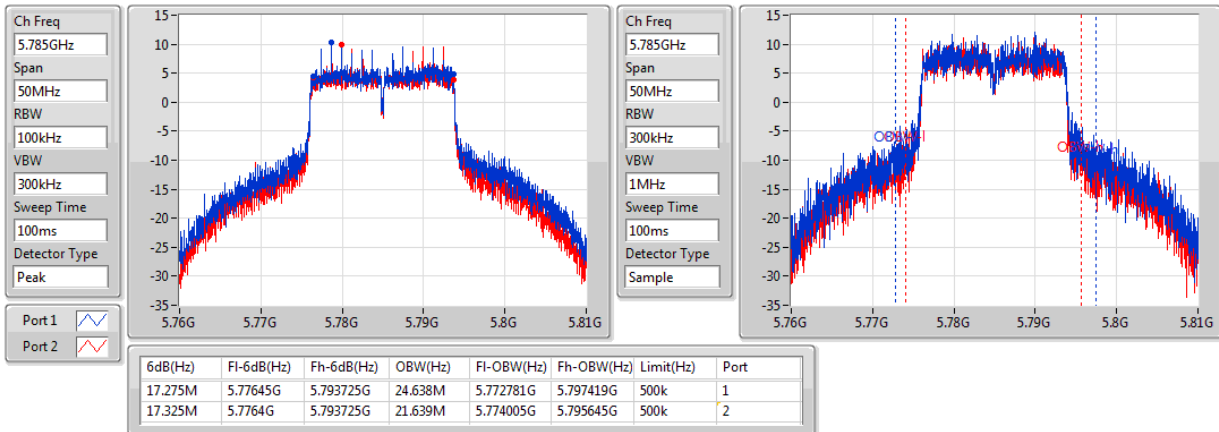


802.11n HT20_Nss1,(MCS0)_2TX
EBW
5745MHz

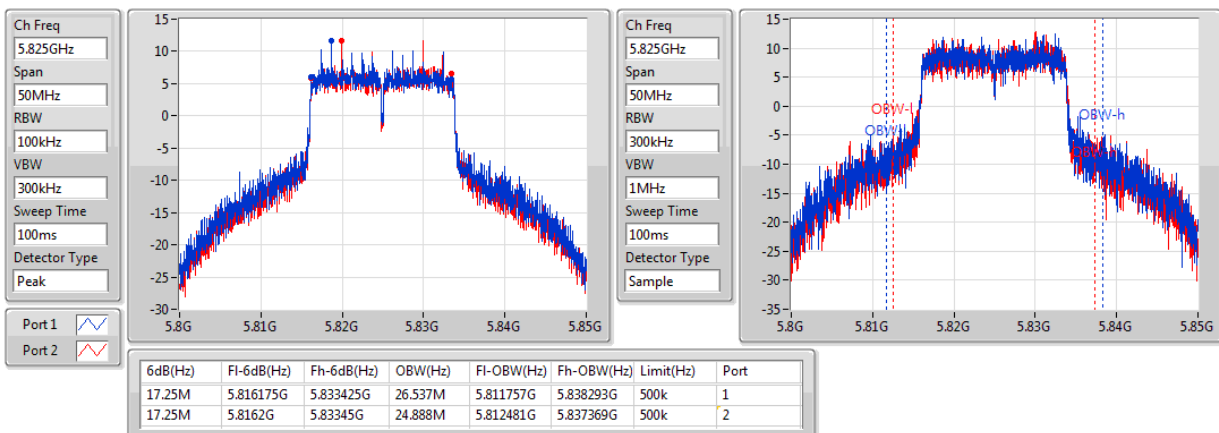
30/08/2018


802.11n HT20_Nss1,(MCS0)_2TX
EBW
5785MHz

30/08/2018

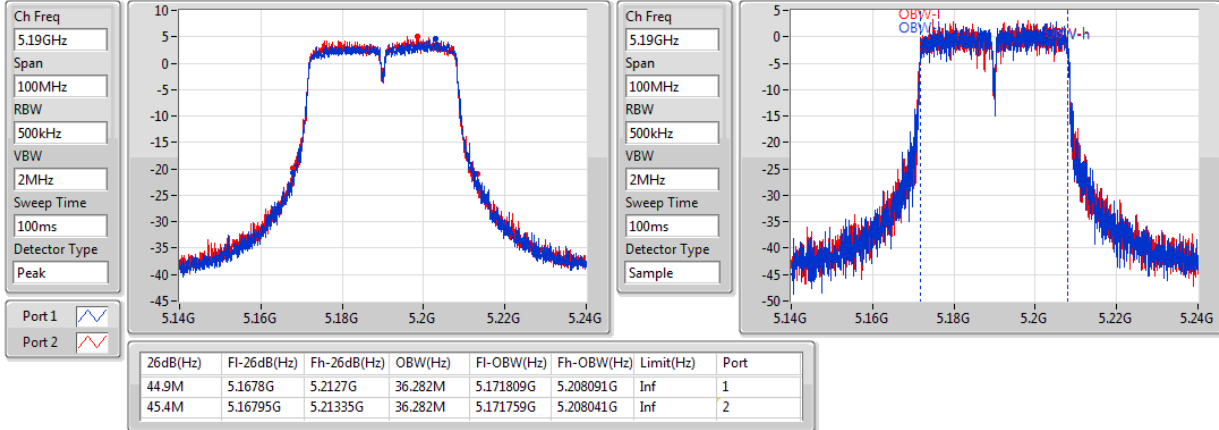

802.11n HT20_Nss1,(MCS0)_2TX
EBW
5825MHz

30/08/2018

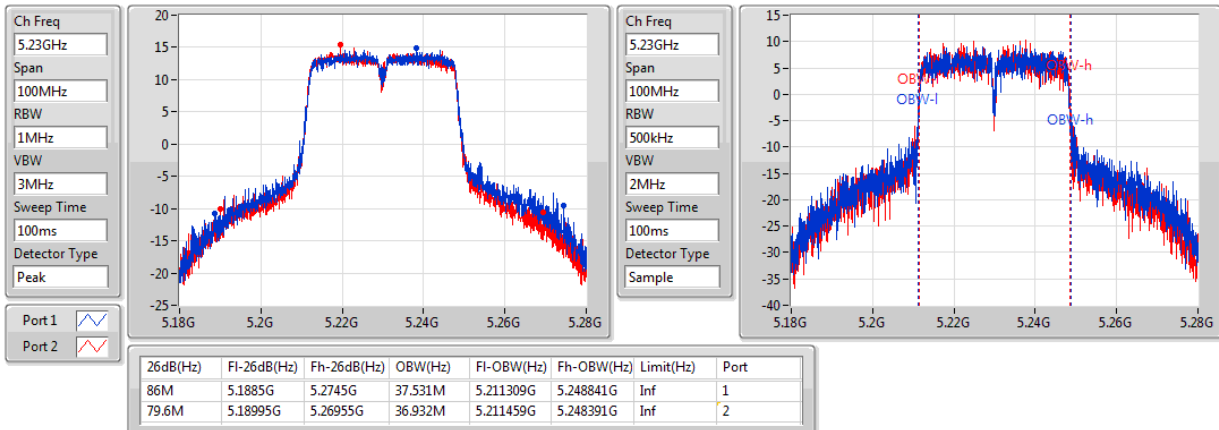


802.11n HT40_Nss1,(MCS0)_2TX
EBW
5190MHz

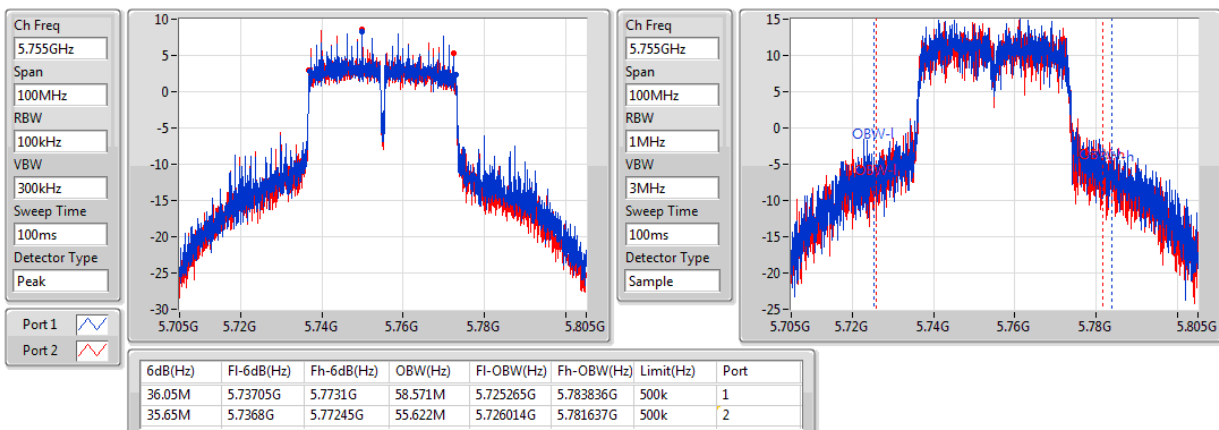
30/08/2018


802.11n HT40_Nss1,(MCS0)_2TX
EBW
5230MHz

30/08/2018


802.11n HT40_Nss1,(MCS0)_2TX
EBW
5755MHz

30/08/2018

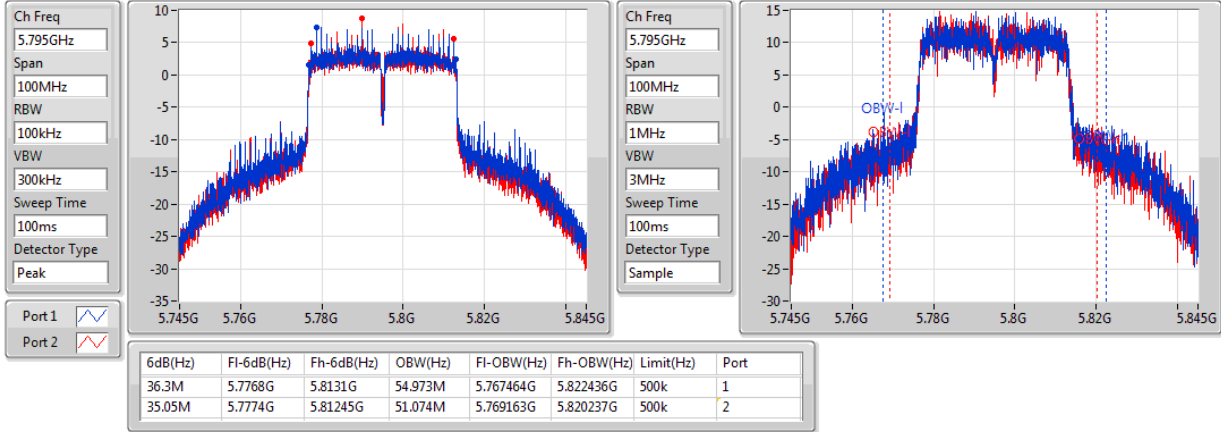


802.11n HT40_Nss1,(MCS0)_2TX

EBW

5795MHz

30/08/2018



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.08	0.20324	26.08	0.40551
802.11n HT20_Nss1,(MCS0)_2TX	22.78	0.18967	25.78	0.37844
802.11n HT40_Nss1,(MCS0)_2TX	22.39	0.17338	25.39	0.34594
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.38	0.21777	26.38	0.43451
802.11n HT20_Nss1,(MCS0)_2TX	24.46	0.27925	27.46	0.55719
802.11n HT40_Nss1,(MCS0)_2TX	24.23	0.26485	27.23	0.52845



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)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	3.00	19.09	19.14	22.13	30.00	25.13	36.00
5200MHz_TnomVnom	Pass	3.00	20.14	20.00	23.08	30.00	26.08	36.00
5240MHz_TnomVnom	Pass	3.00	19.76	19.63	22.71	30.00	25.71	36.00
5745MHz_TnomVnom	Pass	3.00	18.46	18.34	21.41	30.00	24.41	36.00
5785MHz_TnomVnom	Pass	3.00	19.78	19.44	22.62	30.00	25.62	36.00
5825MHz_TnomVnom	Pass	3.00	20.64	20.09	23.38	30.00	26.38	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	3.00	19.17	19.19	22.19	30.00	25.19	36.00
5200MHz_TnomVnom	Pass	3.00	19.82	19.72	22.78	30.00	25.78	36.00
5240MHz_TnomVnom	Pass	3.00	19.34	19.21	22.29	30.00	25.29	36.00
5745MHz_TnomVnom	Pass	3.00	20.98	20.54	23.78	30.00	26.78	36.00
5785MHz_TnomVnom	Pass	3.00	20.67	20.32	23.51	30.00	26.51	36.00
5825MHz_TnomVnom	Pass	3.00	21.49	21.40	24.46	30.00	27.46	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	3.00	13.36	13.34	16.36	30.00	19.36	36.00
5230MHz_TnomVnom	Pass	3.00	19.44	19.32	22.39	30.00	25.39	36.00
5755MHz_TnomVnom	Pass	3.00	21.33	21.11	24.23	30.00	27.23	36.00
5795MHz_TnomVnom	Pass	3.00	21.19	20.93	24.07	30.00	27.07	36.00

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



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.77	16.78
802.11n HT20_Nss1,(MCS0)_2TX	9.90	15.91
802.11n HT40_Nss1,(MCS0)_2TX	6.75	12.76
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.41	15.42
802.11n HT20_Nss1,(MCS0)_2TX	10.10	16.11
802.11n HT40_Nss1,(MCS0)_2TX	7.15	13.16

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)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	6.01	6.64	6.64	9.60	16.99	15.61	23.00
5200MHz_TnomVnom	Pass	6.01	7.88	7.77	10.77	16.99	16.78	23.00
5240MHz_TnomVnom	Pass	6.01	7.31	7.28	10.21	16.99	16.22	23.00
5745MHz_TnomVnom	Pass	6.01	4.45	4.55	7.47	29.99	13.48	36.00
5785MHz_TnomVnom	Pass	6.01	6.00	5.69	8.84	29.99	14.85	36.00
5825MHz_TnomVnom	Pass	6.01	6.80	6.23	9.41	29.99	15.42	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	6.01	6.49	6.42	9.33	16.99	15.34	23.00
5200MHz_TnomVnom	Pass	6.01	7.11	6.90	9.90	16.99	15.91	23.00
5240MHz_TnomVnom	Pass	6.01	6.70	6.65	9.67	16.99	15.68	23.00
5745MHz_TnomVnom	Pass	6.01	6.64	6.38	9.51	29.99	15.52	36.00
5785MHz_TnomVnom	Pass	6.01	6.30	6.08	9.18	29.99	15.19	36.00
5825MHz_TnomVnom	Pass	6.01	7.28	7.11	10.10	29.99	16.11	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	6.01	-1.96	-2.01	0.94	16.99	6.95	23.00
5230MHz_TnomVnom	Pass	6.01	3.91	3.84	6.75	16.99	12.76	23.00
5755MHz_TnomVnom	Pass	6.01	4.23	4.21	7.15	29.99	13.16	36.00
5795MHz_TnomVnom	Pass	6.01	3.88	3.86	6.87	29.99	12.88	36.00

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

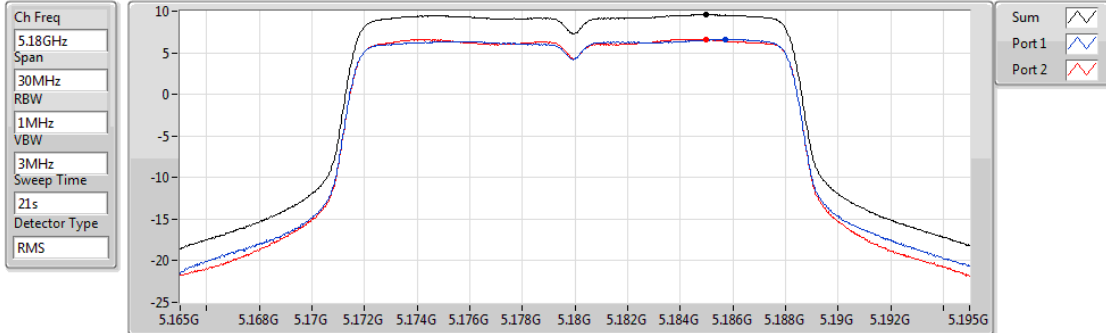
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

30/08/2018



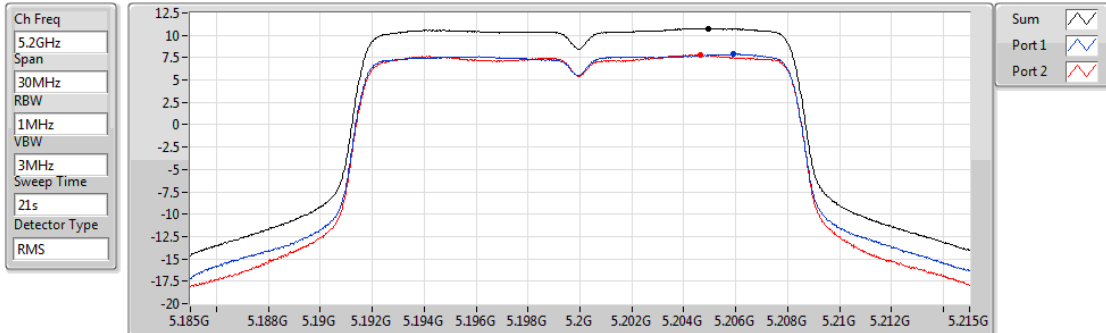
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.60	9.60	6.64	6.64

802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

30/08/2018



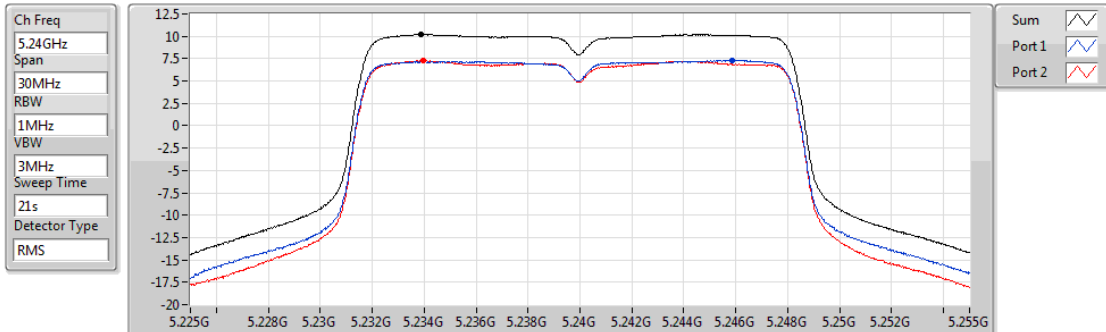
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.77	10.77	7.88	7.77

802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

30/08/2018



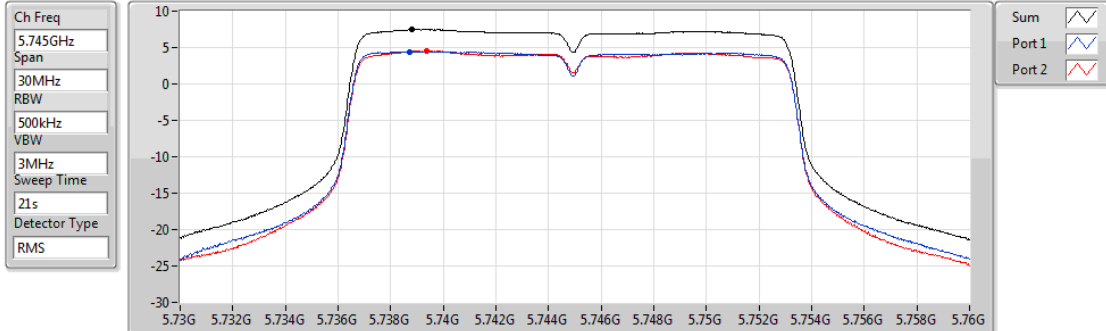
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.21	10.21	7.31	7.28

802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

30/08/2018



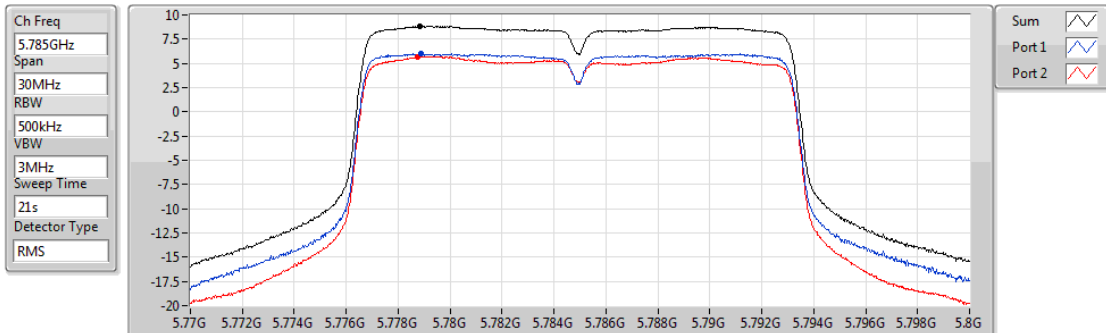
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.47	7.47	4.45	4.55

802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

30/08/2018



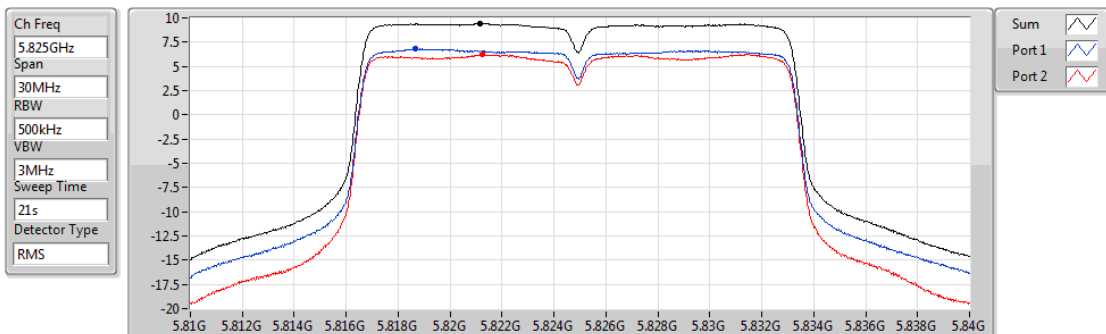
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.84	8.84	6.00	5.69

802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

30/08/2018



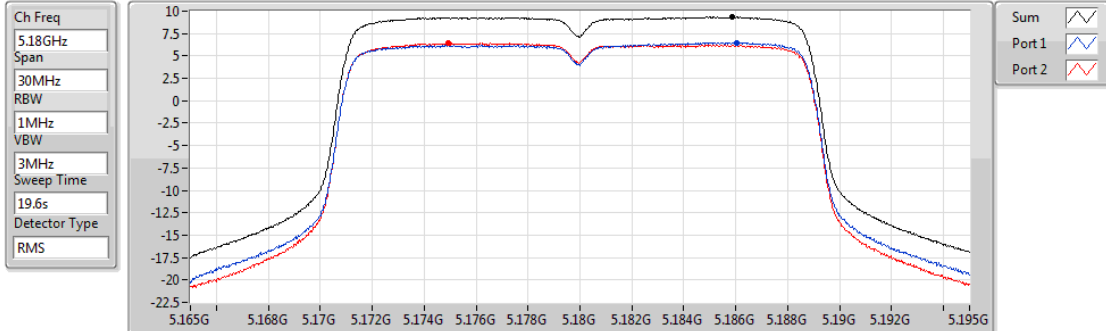
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.41	9.41	6.80	6.23

802.11n HT20_Nss1,(MCS0)_2TX

PSD

5180MHz

30/08/2018



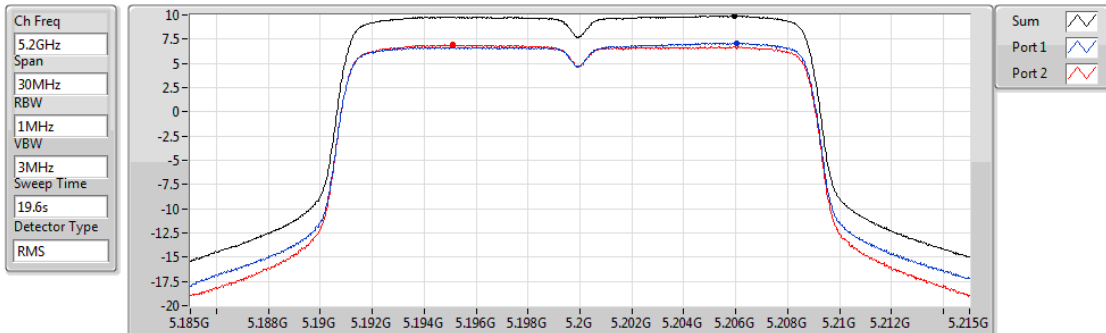
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.33	9.33	6.49	6.42

802.11n HT20_Nss1,(MCS0)_2TX

PSD

5200MHz

30/08/2018



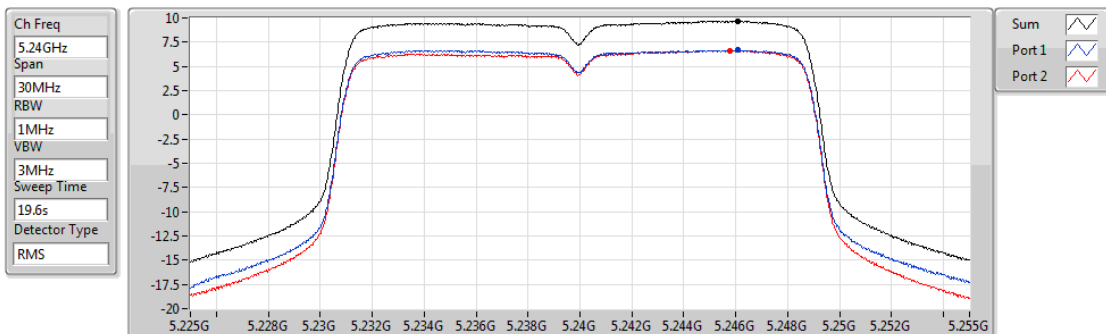
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.90	9.90	7.11	6.90

802.11n HT20_Nss1,(MCS0)_2TX

PSD

5240MHz

30/08/2018



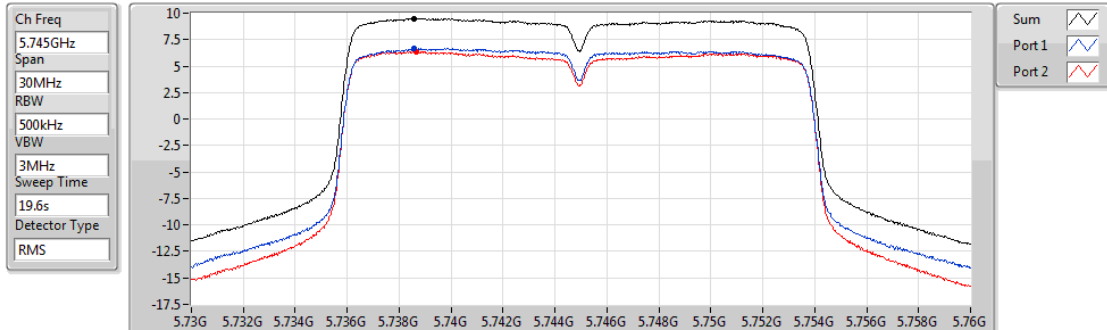
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.67	9.67	6.70	6.65

802.11n HT20_Nss1,(MCS0)_2TX

PSD

5745MHz

30/08/2018



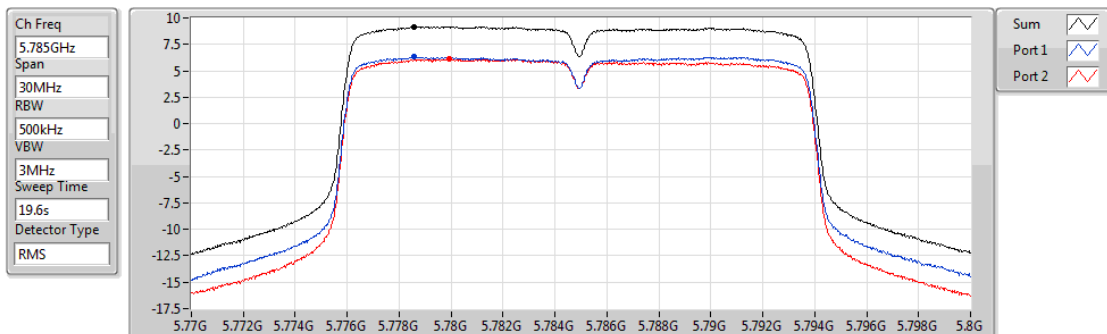
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.51	9.51	6.64	6.38

802.11n HT20_Nss1,(MCS0)_2TX

PSD

5785MHz

30/08/2018



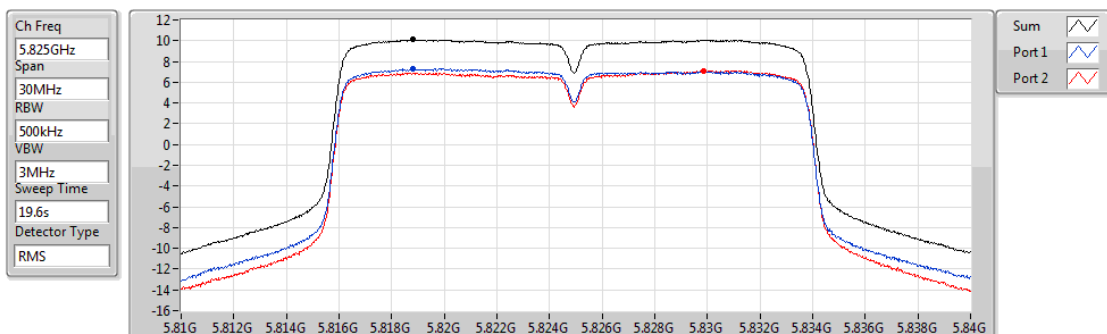
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.18	9.18	6.30	6.08

802.11n HT20_Nss1,(MCS0)_2TX

PSD

5825MHz

30/08/2018



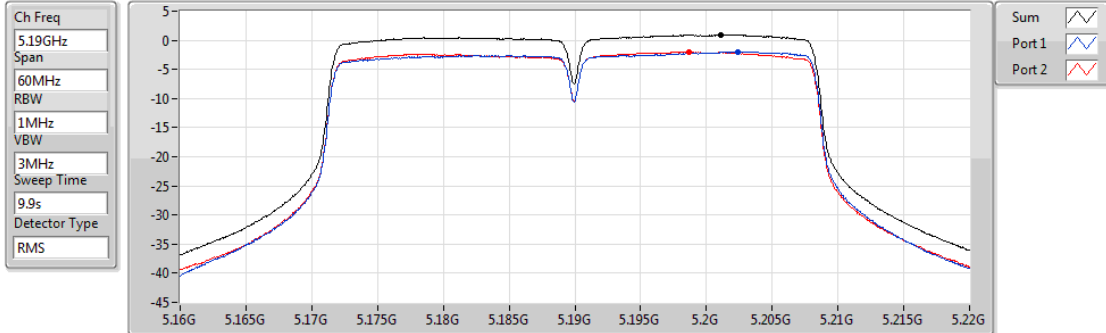
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.10	10.10	7.28	7.11

802.11n HT40_Nss1,(MCS0)_2TX

PSD

5190MHz

30/08/2018



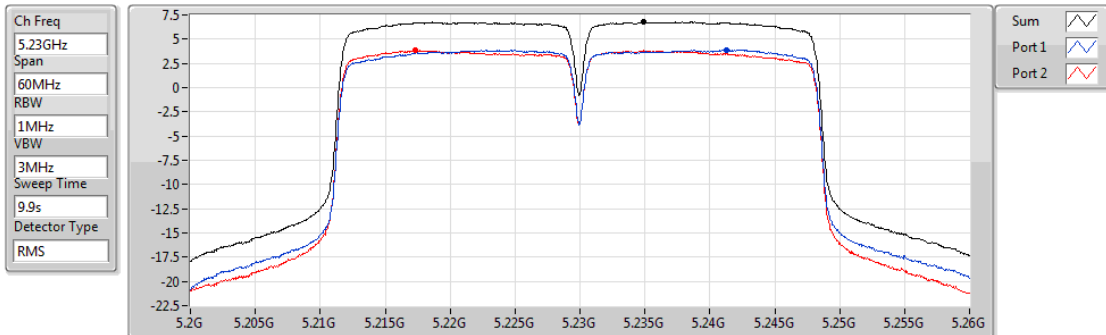
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.94	0.94	-1.96	-2.01

802.11n HT40_Nss1,(MCS0)_2TX

PSD

5230MHz

30/08/2018



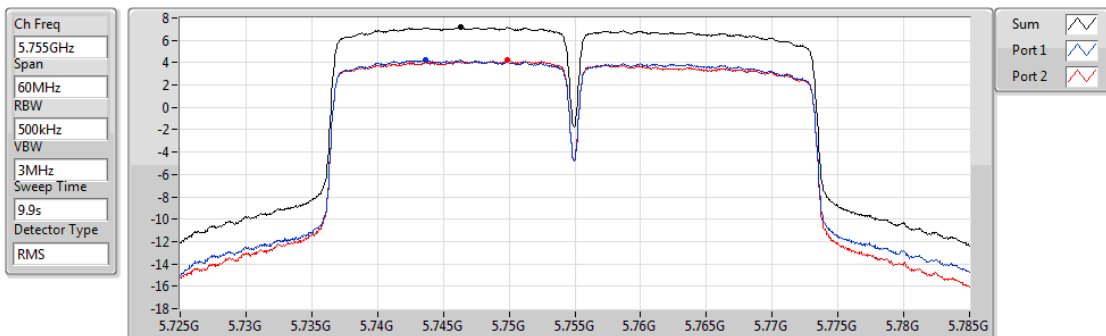
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.75	6.75	3.91	3.84

802.11n HT40_Nss1,(MCS0)_2TX

PSD

5755MHz

30/08/2018



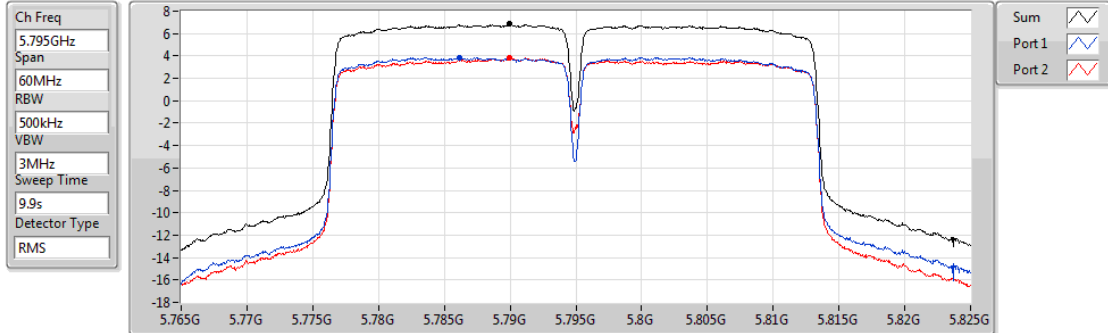
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.15	7.15	4.23	4.21

802.11n HT40_Nss1,(MCS0)_2TX

PSD

5795MHz

30/08/2018



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.87	6.87	3.88	3.86

**Summary**

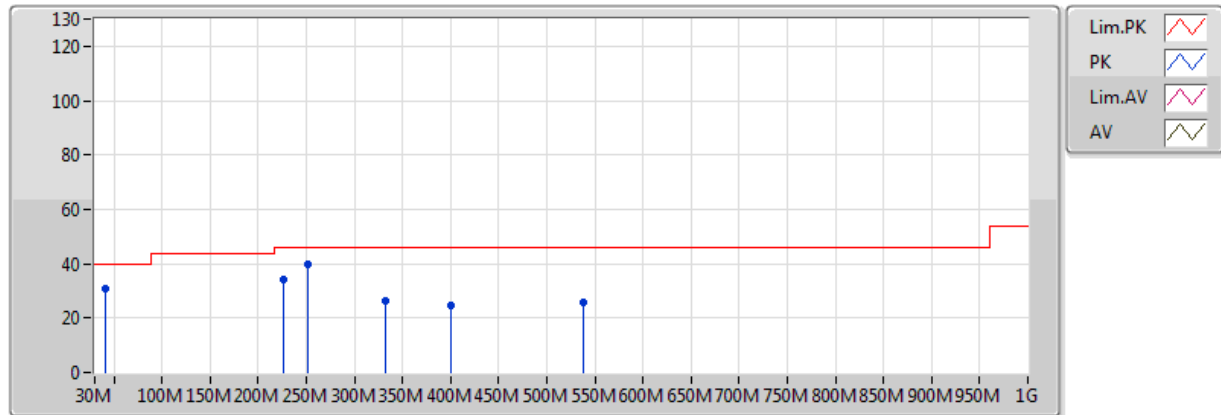
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	PK	251.16M	40.03	46.00	-5.97	-16.97	3	Vertical	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5795MHz	Pass	PK	41.64M	30.92	40.00	-9.08	-19.22	3	Vertical	0	1.00	-
5795MHz	Pass	PK	225.94M	34.07	46.00	-11.93	-20.24	3	Vertical	0	1.00	-
5795MHz	Pass	PK	251.16M	40.03	46.00	-5.97	-16.97	3	Vertical	0	1.00	-
5795MHz	Pass	PK	332.64M	26.10	46.00	-19.90	-15.99	3	Vertical	0	1.00	-
5795MHz	Pass	PK	400.54M	24.86	46.00	-21.14	-14.02	3	Vertical	0	1.00	-
5795MHz	Pass	PK	538.28M	25.75	46.00	-20.25	-12.06	3	Vertical	0	1.00	-
5795MHz	Pass	PK	57.16M	25.44	40.00	-14.56	-25.37	3	Horizontal	360	1.00	-
5795MHz	Pass	PK	247.28M	26.52	46.00	-19.48	-17.55	3	Horizontal	360	1.00	-
5795MHz	Pass	PK	299.66M	35.25	46.00	-10.75	-16.66	3	Horizontal	360	1.00	-
5795MHz	Pass	PK	334.58M	31.20	46.00	-14.80	-15.92	3	Horizontal	360	1.00	-
5795MHz	Pass	PK	400.54M	30.00	46.00	-16.00	-14.02	3	Horizontal	360	1.00	-
5795MHz	Pass	PK	478.14M	25.67	46.00	-20.33	-12.41	3	Horizontal	360	1.00	-

802.11n HT40_Nss1,(MCS0)_2TX 5795MHz_Switching Power Supply

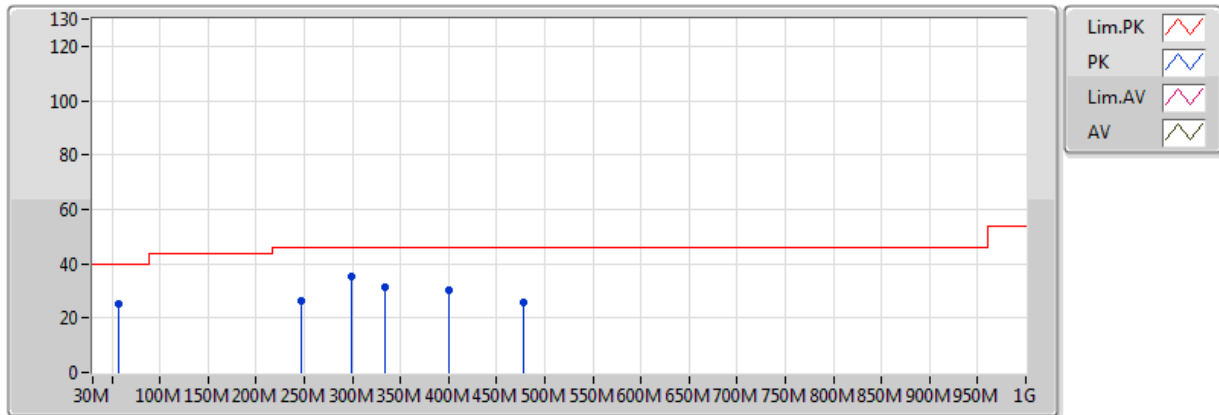
30/08/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	41.64M	30.92	40.00	-9.08	-19.22	3	Vertical	0	1.00	-
PK	225.94M	34.07	46.00	-11.93	-20.24	3	Vertical	0	1.00	-
PK	251.16M	40.03	46.00	-5.97	-16.97	3	Vertical	0	1.00	-
PK	332.64M	26.10	46.00	-19.90	-15.99	3	Vertical	0	1.00	-
PK	400.54M	24.86	46.00	-21.14	-14.02	3	Vertical	0	1.00	-
PK	538.28M	25.75	46.00	-20.25	-12.06	3	Vertical	0	1.00	-

802.11n HT40_Nss1,(MCS0)_2TX 5795MHz_Switching Power Supply

30/08/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	57.16M	25.44	40.00	-14.56	-25.37	3	Horizontal	360	1.00	-
PK	247.28M	26.52	46.00	-19.48	-17.55	3	Horizontal	360	1.00	-
PK	299.66M	35.25	46.00	-10.75	-16.66	3	Horizontal	360	1.00	-
PK	334.58M	31.20	46.00	-14.80	-15.92	3	Horizontal	360	1.00	-
PK	400.54M	30.00	46.00	-16.00	-14.02	3	Horizontal	360	1.00	-
PK	478.14M	25.67	46.00	-20.33	-12.41	3	Horizontal	360	1.00	-

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	5.3714G	53.83	54.00	-0.17	4.09	3	Vertical	11	1.51	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	5.1456G	53.72	54.00	-0.28	3.67	3	Vertical	10	1.85	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	AV	5.1464G	53.31	54.00	-0.69	3.68	3	Vertical	10	1.50	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	5.5626G	63.59	68.20	-4.61	3.26	3	Vertical	149	1.92	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	PK	5.6038G	62.81	68.20	-5.39	3.35	3	Vertical	5	1.83	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	PK	5.6386G	66.14	68.20	-2.06	3.42	3	Vertical	314	1.83	-

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)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.149995G	53.51	54.00	-0.49	3.68	3	Vertical	353	1.49	-
5180MHz	Pass	AV	5.1852G	106.79	Inf	-Inf	3.74	3	Vertical	353	1.49	-
5180MHz	Pass	PK	5.1498G	65.85	74.00	-8.15	3.68	3	Vertical	353	1.49	-
5180MHz	Pass	PK	5.1848G	115.80	Inf	-Inf	3.74	3	Vertical	353	1.49	-
5180MHz	Pass	AV	10.3617G	42.16	54.00	-11.84	12.64	3	Vertical	345	1.78	-
5180MHz	Pass	PK	10.3564G	55.49	74.00	-18.51	12.63	3	Vertical	345	1.78	-
5180MHz	Pass	AV	10.35738G	37.07	54.00	-16.93	12.63	3	Horizontal	264	1.50	-
5180MHz	Pass	PK	10.3612G	50.34	74.00	-23.66	12.64	3	Horizontal	264	1.50	-
5220MHz	Pass	AV	5.1354G	49.79	54.00	-4.21	3.65	3	Vertical	18	1.50	-
5220MHz	Pass	AV	5.2254G	107.72	Inf	-Inf	3.82	3	Vertical	18	1.50	-
5220MHz	Pass	AV	5.3556G	52.71	54.00	-1.29	4.06	3	Vertical	18	1.50	-
5220MHz	Pass	PK	5.1294G	61.32	74.00	-12.68	3.65	3	Vertical	18	1.50	-
5220MHz	Pass	PK	5.2254G	115.96	Inf	-Inf	3.82	3	Vertical	18	1.50	-
5220MHz	Pass	PK	5.3514G	64.31	74.00	-9.69	4.05	3	Vertical	18	1.50	-
5220MHz	Pass	AV	10.4412G	43.87	54.00	-10.13	12.81	3	Vertical	360	1.80	-
5220MHz	Pass	PK	10.4406G	57.51	74.00	-16.49	12.81	3	Vertical	360	1.80	-
5220MHz	Pass	AV	10.441G	38.36	54.00	-15.64	12.81	3	Horizontal	43	1.26	-
5220MHz	Pass	PK	10.44252G	50.87	74.00	-23.13	12.81	3	Horizontal	43	1.26	-
5240MHz	Pass	AV	5.12G	50.38	54.00	-3.62	3.62	3	Vertical	11	1.51	-
5240MHz	Pass	AV	5.246G	109.84	Inf	-Inf	3.86	3	Vertical	11	1.51	-
5240MHz	Pass	AV	5.3714G	53.83	54.00	-0.17	4.09	3	Vertical	11	1.51	-
5240MHz	Pass	PK	5.1134G	61.81	74.00	-12.19	3.62	3	Vertical	11	1.51	-
5240MHz	Pass	PK	5.246G	118.84	Inf	-Inf	3.86	3	Vertical	11	1.51	-
5240MHz	Pass	PK	5.3696G	65.45	74.00	-8.55	4.08	3	Vertical	11	1.51	-
5240MHz	Pass	AV	10.4812G	44.10	54.00	-9.90	12.90	3	Vertical	40	2.14	-
5240MHz	Pass	PK	10.4803G	56.99	74.00	-17.01	12.90	3	Vertical	40	2.14	-
5240MHz	Pass	AV	10.47544G	38.39	54.00	-15.61	12.89	3	Horizontal	36	1.32	-
5240MHz	Pass	PK	10.48072G	51.57	74.00	-22.43	12.90	3	Horizontal	36	1.32	-
5745MHz	Pass	AV	5.7414G	105.75	Inf	-Inf	3.62	3	Vertical	149	1.92	-
5745MHz	Pass	PK	5.5626G	63.59	68.20	-4.61	3.26	3	Vertical	149	1.92	-
5745MHz	Pass	PK	5.7426G	114.94	Inf	-Inf	3.62	3	Vertical	149	1.92	-
5745MHz	Pass	PK	5.9454G	58.65	68.20	-9.55	4.02	3	Vertical	149	1.92	-
5745MHz	Pass	AV	11.48704G	39.00	54.00	-15.00	13.58	3	Vertical	44	1.71	-
5745MHz	Pass	PK	11.48572G	52.43	74.00	-21.57	13.58	3	Vertical	44	1.71	-
5745MHz	Pass	AV	11.49328G	39.01	54.00	-14.99	13.58	3	Horizontal	157	2.22	-
5745MHz	Pass	PK	11.48732G	51.78	74.00	-22.22	13.58	3	Horizontal	157	2.22	-
5785MHz	Pass	AV	5.791G	106.93	Inf	-Inf	3.71	3	Vertical	322	1.97	-
5785MHz	Pass	PK	5.6242G	62.73	68.20	-5.47	3.39	3	Vertical	322	1.97	-
5785MHz	Pass	PK	5.7862G	116.28	Inf	-Inf	3.70	3	Vertical	322	1.97	-
5785MHz	Pass	PK	5.929G	58.06	68.20	-10.14	3.99	3	Vertical	322	1.97	-
5785MHz	Pass	AV	11.57394G	38.86	54.00	-15.14	13.50	3	Vertical	237	1.21	-
5785MHz	Pass	PK	11.5664G	52.18	74.00	-21.82	13.51	3	Vertical	237	1.21	-
5785MHz	Pass	AV	11.57358G	38.89	54.00	-15.11	13.50	3	Horizontal	189	1.61	-
5785MHz	Pass	PK	11.57256G	52.00	74.00	-22.00	13.50	3	Horizontal	189	1.61	-
5825MHz	Pass	AV	5.8322G	106.28	Inf	-Inf	3.79	3	Vertical	145	1.88	-
5825MHz	Pass	PK	5.5934G	60.84	68.20	-7.36	3.33	3	Vertical	145	1.88	-
5825MHz	Pass	PK	5.8274G	115.56	Inf	-Inf	3.78	3	Vertical	145	1.88	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5825MHz	Pass	PK	5.9438G	57.91	68.20	-10.29	4.02	3	Vertical	145	1.88	-
5825MHz	Pass	AV	11.65008G	38.81	54.00	-15.19	13.43	3	Vertical	57	1.18	-
5825MHz	Pass	PK	11.64596G	51.05	74.00	-22.95	13.44	3	Vertical	57	1.18	-
5825MHz	Pass	AV	11.64568G	38.84	54.00	-15.16	13.44	3	Horizontal	358	1.25	-
5825MHz	Pass	PK	11.65032G	51.35	74.00	-22.65	13.43	3	Horizontal	358	1.25	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1456G	53.72	54.00	-0.28	3.67	3	Vertical	10	1.85	-
5180MHz	Pass	AV	5.183G	108.16	Inf	-Inf	3.74	3	Vertical	10	1.85	-
5180MHz	Pass	PK	5.1428G	67.09	74.00	-6.91	3.67	3	Vertical	10	1.85	-
5180MHz	Pass	PK	5.1844G	117.08	Inf	-Inf	3.74	3	Vertical	10	1.85	-
5180MHz	Pass	AV	10.3622G	41.35	54.00	-12.65	12.64	3	Vertical	100	1.93	-
5180MHz	Pass	PK	10.3594G	55.04	74.00	-18.96	12.63	3	Vertical	100	1.93	-
5180MHz	Pass	AV	10.35878G	38.15	54.00	-15.85	12.63	3	Horizontal	22	1.34	-
5180MHz	Pass	PK	10.36334G	51.17	74.00	-22.83	12.64	3	Horizontal	22	1.34	-
5220MHz	Pass	PK	5.142G	60.89	74.00	-13.11	3.67	3	Vertical	24	1.50	-
5220MHz	Pass	AV	5.1364G	49.61	54.00	-4.39	3.65	3	Vertical	24	1.50	-
5220MHz	Pass	PK	5.2236G	115.61	Inf	-Inf	3.81	3	Vertical	24	1.50	-
5220MHz	Pass	AV	5.222G	106.98	Inf	-Inf	3.81	3	Vertical	24	1.50	-
5220MHz	Pass	AV	10.4443G	43.01	54.00	-10.99	12.82	3	Vertical	173	1.58	-
5220MHz	Pass	PK	10.4444G	56.43	74.00	-17.57	12.82	3	Vertical	173	1.58	-
5220MHz	Pass	AV	10.43684G	38.03	54.00	-15.97	12.80	3	Horizontal	347	1.12	-
5220MHz	Pass	PK	10.44338G	51.06	74.00	-22.94	12.82	3	Horizontal	347	1.12	-
5240MHz	Pass	AV	5.1224G	49.74	54.00	-4.26	3.63	3	Vertical	19	1.84	-
5240MHz	Pass	AV	5.2376G	107.89	Inf	-Inf	3.84	3	Vertical	19	1.84	-
5240MHz	Pass	AV	5.3786G	53.23	54.00	-0.77	4.10	3	Vertical	19	1.84	-
5240MHz	Pass	PK	5.138G	60.57	74.00	-13.43	3.66	3	Vertical	19	1.84	-
5240MHz	Pass	PK	5.2382G	116.86	Inf	-Inf	3.84	3	Vertical	19	1.84	-
5240MHz	Pass	PK	5.3714G	64.43	74.00	-9.57	4.09	3	Vertical	19	1.84	-
5240MHz	Pass	AV	10.4817G	42.79	54.00	-11.21	12.90	3	Vertical	74	2.19	-
5240MHz	Pass	PK	10.4848G	56.91	74.00	-17.09	12.91	3	Vertical	74	2.19	-
5240MHz	Pass	AV	10.48304G	38.34	54.00	-15.66	12.90	3	Horizontal	54	2.34	-
5240MHz	Pass	PK	10.47916G	51.56	74.00	-22.44	12.89	3	Horizontal	54	2.34	-
5745MHz	Pass	AV	5.739G	107.27	Inf	-Inf	3.61	3	Vertical	168	1.79	-
5745MHz	Pass	PK	5.5854G	62.78	68.20	-5.42	3.31	3	Vertical	168	1.79	-
5745MHz	Pass	PK	5.7414G	116.12	Inf	-Inf	3.62	3	Vertical	168	1.79	-
5745MHz	Pass	PK	5.9634G	59.03	68.20	-9.17	4.05	3	Vertical	168	1.79	-
5745MHz	Pass	AV	11.486G	39.00	54.00	-15.00	13.58	3	Vertical	337	2.31	-
5745MHz	Pass	PK	11.49386G	52.13	74.00	-21.87	13.58	3	Vertical	337	2.31	-
5745MHz	Pass	AV	11.4851G	39.10	54.00	-14.90	13.58	3	Horizontal	245	1.82	-
5745MHz	Pass	PK	11.48714G	51.91	74.00	-22.09	13.58	3	Horizontal	245	1.82	-
5785MHz	Pass	AV	5.7778G	106.35	Inf	-Inf	3.69	3	Vertical	5	1.83	-
5785MHz	Pass	PK	5.6038G	62.81	68.20	-5.39	3.35	3	Vertical	5	1.83	-
5785MHz	Pass	PK	5.779G	115.41	Inf	-Inf	3.69	3	Vertical	5	1.83	-
5785MHz	Pass	PK	5.9686G	57.84	68.20	-10.36	4.07	3	Vertical	5	1.83	-
5785MHz	Pass	AV	11.5726G	38.67	54.00	-15.33	13.50	3	Vertical	6	1.92	-
5785MHz	Pass	PK	11.57092G	51.71	74.00	-22.29	13.50	3	Vertical	6	1.92	-
5785MHz	Pass	AV	11.5742G	38.69	54.00	-15.31	13.50	3	Horizontal	201	2.05	-
5785MHz	Pass	PK	11.5671G	51.87	74.00	-22.13	13.51	3	Horizontal	201	2.05	-
5825MHz	Pass	AV	5.819G	106.88	Inf	-Inf	3.77	3	Vertical	166	1.95	-



RSE TX above 1GHz Result

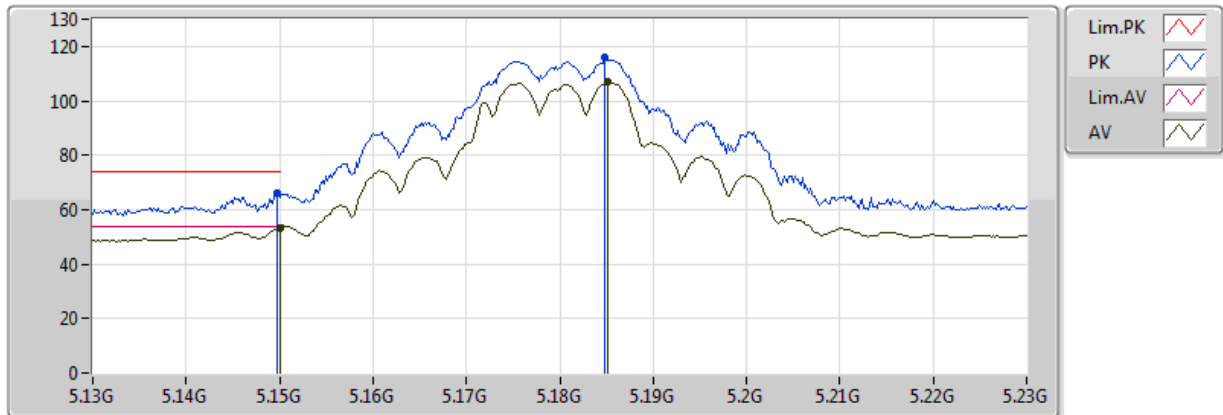
Appendix D.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5825MHz	Pass	PK	5.627G	62.05	68.20	-6.15	3.40	3	Vertical	166	1.95	-
5825MHz	Pass	PK	5.819G	116.02	Inf	-Inf	3.77	3	Vertical	166	1.95	-
5825MHz	Pass	PK	5.9738G	58.25	68.20	-9.95	4.07	3	Vertical	166	1.95	-
5825MHz	Pass	AV	11.64522G	38.82	54.00	-15.18	13.44	3	Vertical	325	1.36	-
5825MHz	Pass	PK	11.64808G	51.27	74.00	-22.73	13.43	3	Vertical	325	1.36	-
5825MHz	Pass	AV	11.64516G	38.66	54.00	-15.34	13.44	3	Horizontal	176	1.22	-
5825MHz	Pass	PK	11.6518G	51.64	74.00	-22.36	13.43	3	Horizontal	176	1.22	-
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.149995G	53.20	54.00	-0.80	3.68	3	Vertical	10	1.58	-
5190MHz	Pass	AV	5.194G	99.48	Inf	-Inf	3.76	3	Vertical	10	1.58	-
5190MHz	Pass	PK	5.1496G	64.22	74.00	-9.78	3.68	3	Vertical	10	1.58	-
5190MHz	Pass	PK	5.1948G	108.66	Inf	-Inf	3.76	3	Vertical	10	1.58	-
5190MHz	Pass	AV	10.38356G	39.00	54.00	-15.00	12.69	3	Vertical	305	1.81	-
5190MHz	Pass	PK	10.38282G	51.37	74.00	-22.63	12.68	3	Vertical	305	1.81	-
5190MHz	Pass	AV	10.37646G	38.87	54.00	-15.13	12.67	3	Horizontal	74	1.31	-
5190MHz	Pass	PK	10.38476G	51.52	74.00	-22.48	12.69	3	Horizontal	74	1.31	-
5230MHz	Pass	AV	5.1464G	53.31	54.00	-0.69	3.68	3	Vertical	10	1.50	-
5230MHz	Pass	AV	5.244G	107.51	Inf	-Inf	3.85	3	Vertical	10	1.50	-
5230MHz	Pass	PK	5.1472G	65.49	74.00	-8.51	3.68	3	Vertical	10	1.50	-
5230MHz	Pass	PK	5.244G	116.15	Inf	-Inf	3.85	3	Vertical	10	1.50	-
5230MHz	Pass	AV	10.4642G	44.58	54.00	-9.42	12.86	3	Vertical	240	1.12	-
5230MHz	Pass	PK	10.4562G	57.63	74.00	-16.37	12.84	3	Vertical	240	1.12	-
5230MHz	Pass	AV	10.45874G	38.91	54.00	-15.09	12.85	3	Horizontal	284	1.54	-
5230MHz	Pass	PK	10.4564G	51.25	74.00	-22.75	12.84	3	Horizontal	284	1.54	-
5755MHz	Pass	AV	5.7538G	105.44	Inf	-Inf	3.64	3	Vertical	314	1.83	-
5755MHz	Pass	PK	5.6386G	66.14	68.20	-2.06	3.42	3	Vertical	314	1.83	-
5755MHz	Pass	PK	5.7538G	114.44	Inf	-Inf	3.64	3	Vertical	314	1.83	-
5755MHz	Pass	PK	5.9326G	58.62	68.20	-9.58	4.00	3	Vertical	314	1.83	-
5755MHz	Pass	AV	11.50888G	39.62	54.00	-14.38	13.56	3	Vertical	161	1.16	-
5755MHz	Pass	PK	11.5124G	51.97	74.00	-22.03	13.56	3	Vertical	161	1.16	-
5755MHz	Pass	AV	11.50996G	39.45	54.00	-14.55	13.56	3	Horizontal	331	1.76	-
5755MHz	Pass	PK	11.50876G	51.65	74.00	-22.35	13.56	3	Horizontal	331	1.76	-
5795MHz	Pass	AV	5.7926G	105.51	Inf	-Inf	3.72	3	Vertical	314	1.81	-
5795MHz	Pass	PK	5.609G	63.18	68.20	-5.02	3.36	3	Vertical	314	1.81	-
5795MHz	Pass	PK	5.7914G	114.64	Inf	-Inf	3.71	3	Vertical	314	1.81	-
5795MHz	Pass	PK	5.9318G	58.20	68.20	-10.00	3.99	3	Vertical	314	1.81	-
5795MHz	Pass	AV	11.59216G	39.38	54.00	-14.62	13.49	3	Vertical	297	1.46	-
5795MHz	Pass	PK	11.5868G	52.21	74.00	-21.79	13.49	3	Vertical	297	1.46	-
5795MHz	Pass	AV	11.5937G	39.28	54.00	-14.72	13.48	3	Horizontal	41	1.34	-
5795MHz	Pass	PK	11.58564G	51.85	74.00	-22.15	13.49	3	Horizontal	41	1.34	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

29/08/2018

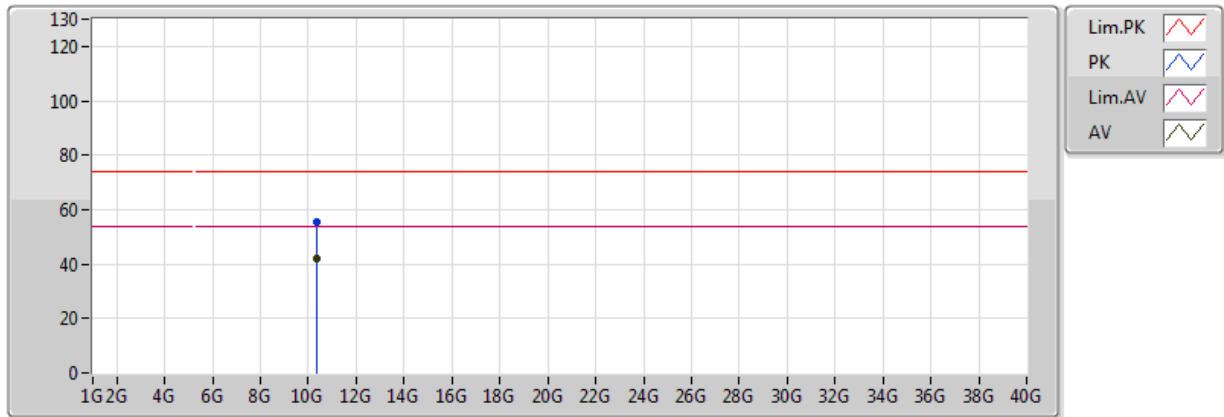


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.149995G	53.51	54.00	-0.49	3.68	3	Vertical	353	1.49	-
AV	5.1852G	106.79	Inf	-Inf	3.74	3	Vertical	353	1.49	-
PK	5.1498G	65.85	74.00	-8.15	3.68	3	Vertical	353	1.49	-
PK	5.1848G	115.80	Inf	-Inf	3.74	3	Vertical	353	1.49	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

30/08/2018

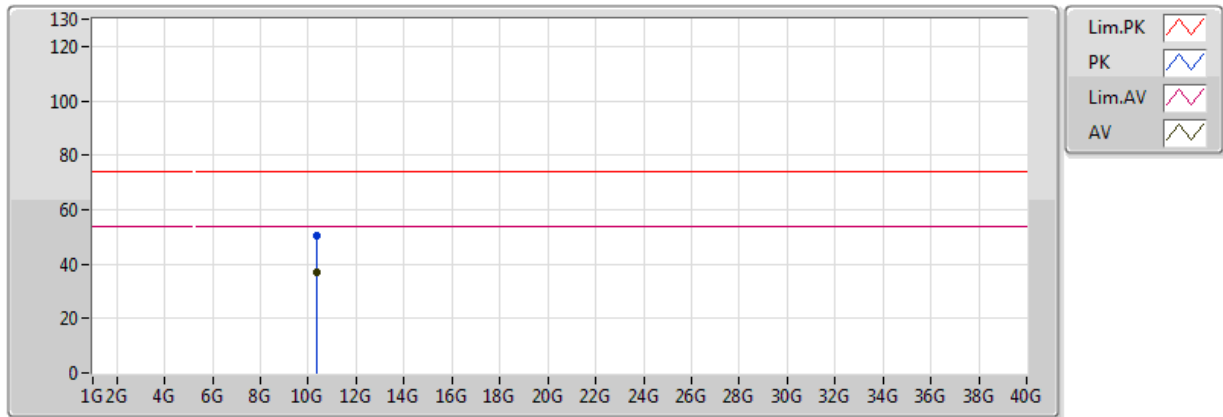


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.3617G	42.16	54.00	-11.84	12.64	3	Vertical	345	1.78	-
PK	10.3564G	55.49	74.00	-18.51	12.63	3	Vertical	345	1.78	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

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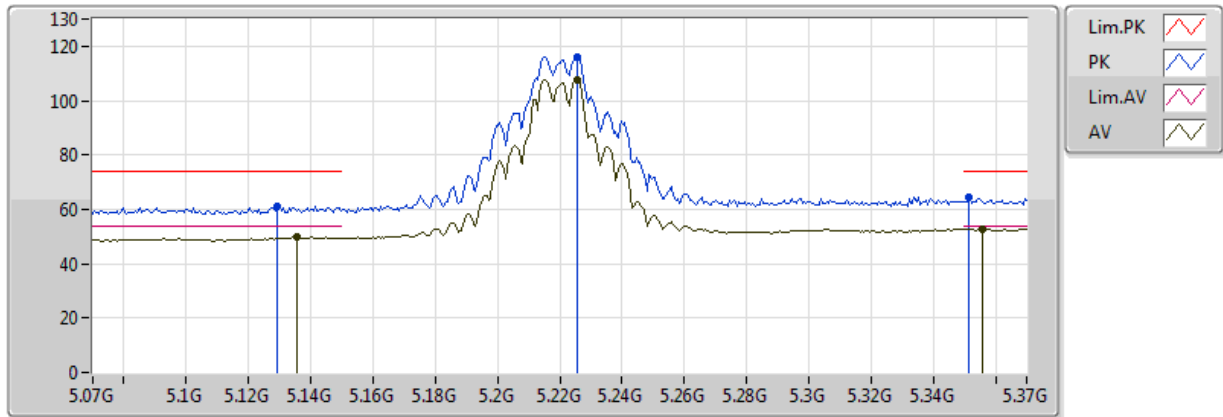


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.35738G	37.07	54.00	-16.93	12.63	3	Horizontal	264	1.50	-
PK	10.3612G	50.34	74.00	-23.66	12.64	3	Horizontal	264	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5220MHz_TX

30/08/2018

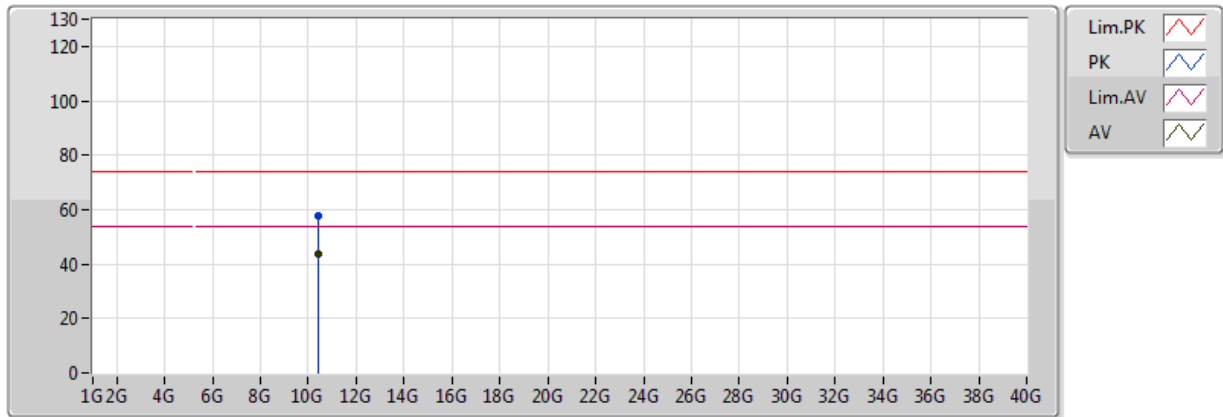


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1354G	49.79	54.00	-4.21	3.65	3	Vertical	18	1.50	-
AV	5.2254G	107.72	Inf	-Inf	3.82	3	Vertical	18	1.50	-
AV	5.3556G	52.71	54.00	-1.29	4.06	3	Vertical	18	1.50	-
PK	5.1294G	61.32	74.00	-12.68	3.65	3	Vertical	18	1.50	-
PK	5.2254G	115.96	Inf	-Inf	3.82	3	Vertical	18	1.50	-
PK	5.3514G	64.31	74.00	-9.69	4.05	3	Vertical	18	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5220MHz_TX

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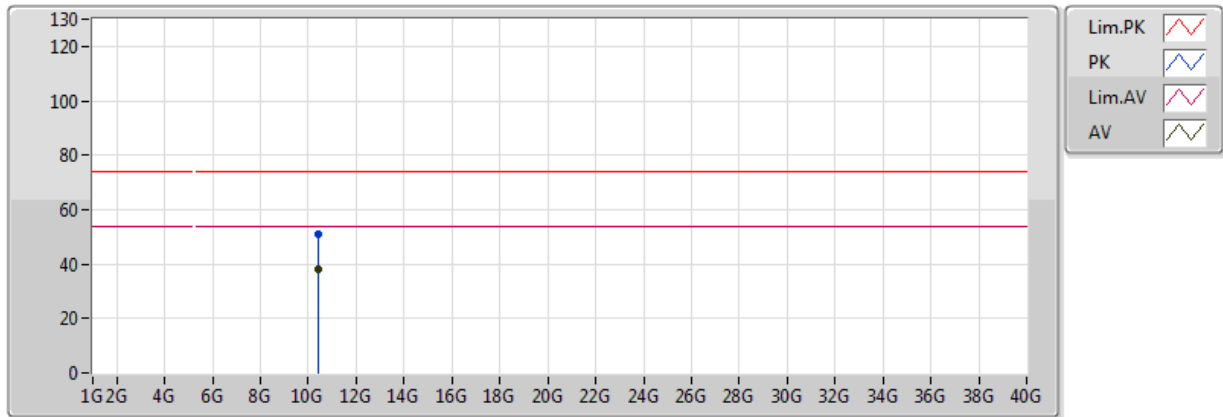


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.4412G	43.87	54.00	-10.13	12.81	3	Vertical	360	1.80	-
PK	10.4406G	57.51	74.00	-16.49	12.81	3	Vertical	360	1.80	-

802.11a_Nss1,(6Mbps)_2TX

5220MHz_TX

30/08/2018

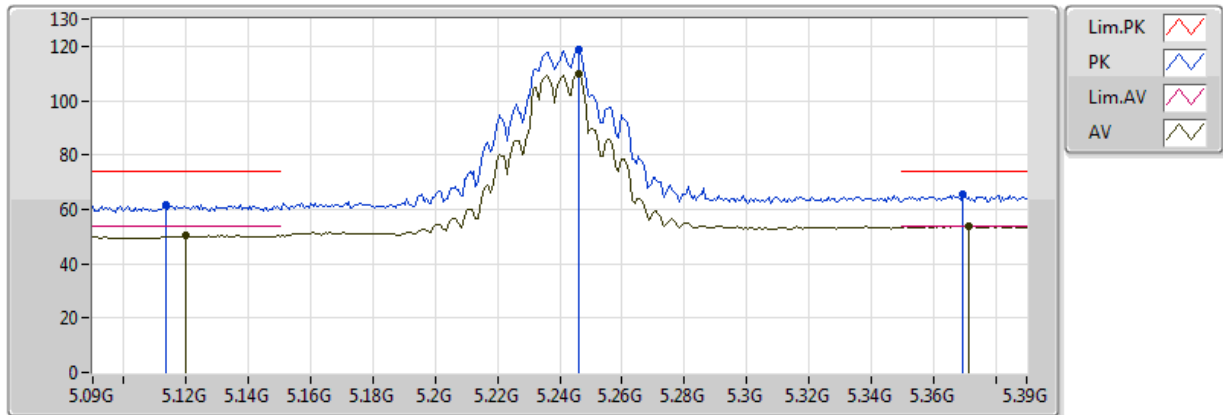


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.441G	38.36	54.00	-15.64	12.81	3	Horizontal	43	1.26	-
PK	10.44252G	50.87	74.00	-23.13	12.81	3	Horizontal	43	1.26	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

30/08/2018

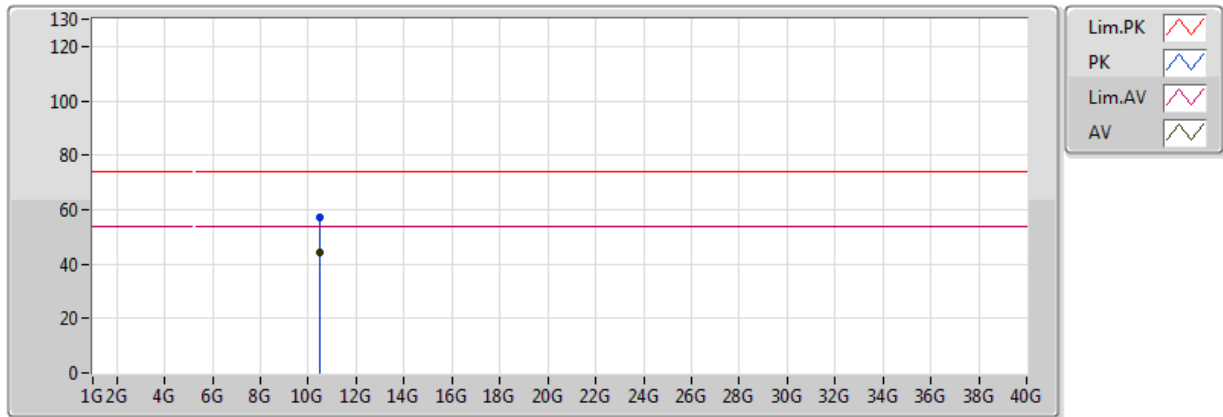


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.12G	50.38	54.00	-3.62	3.62	3	Vertical	11	1.51	-
AV	5.246G	109.84	Inf	-Inf	3.86	3	Vertical	11	1.51	-
AV	5.3714G	53.83	54.00	-0.17	4.09	3	Vertical	11	1.51	-
PK	5.1134G	61.81	74.00	-12.19	3.62	3	Vertical	11	1.51	-
PK	5.246G	118.84	Inf	-Inf	3.86	3	Vertical	11	1.51	-
PK	5.3696G	65.45	74.00	-8.55	4.08	3	Vertical	11	1.51	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

30/08/2018

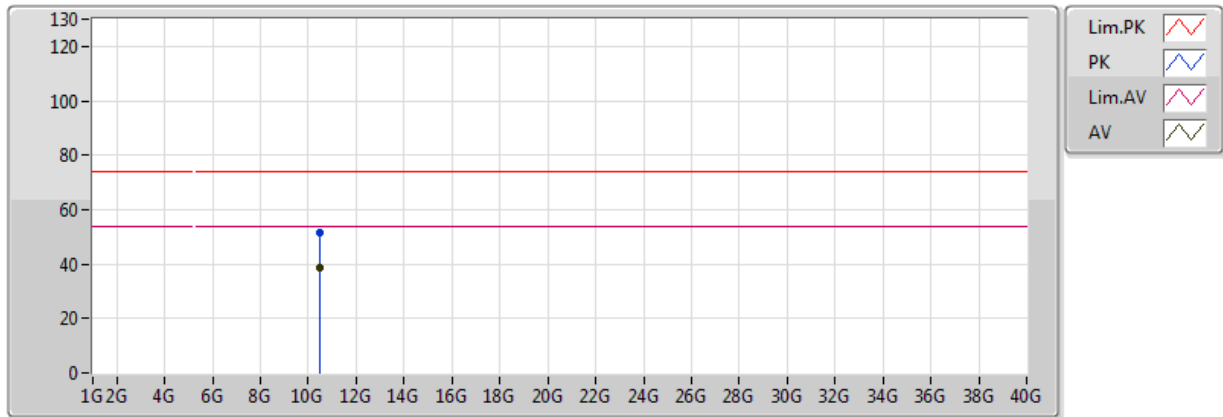


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.4812G	44.10	54.00	-9.90	12.90	3	Vertical	40	2.14	-
PK	10.4803G	56.99	74.00	-17.01	12.90	3	Vertical	40	2.14	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

30/08/2018

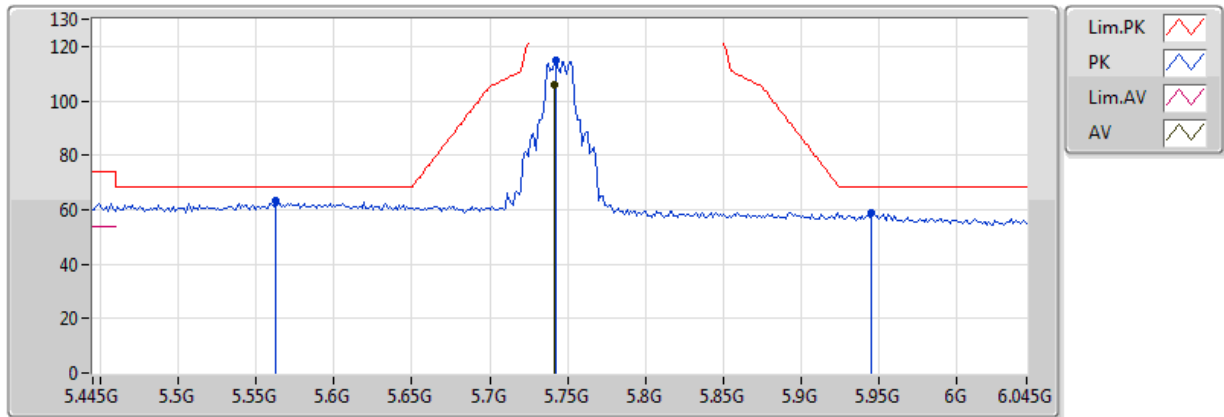


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.47544G	38.39	54.00	-15.61	12.89	3	Horizontal	36	1.32	-
PK	10.48072G	51.57	74.00	-22.43	12.90	3	Horizontal	36	1.32	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

30/08/2018

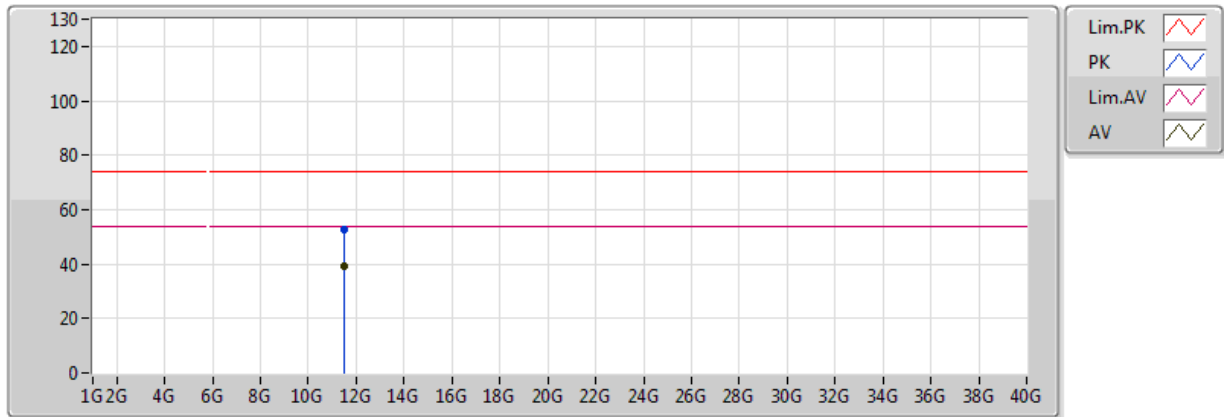


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7414G	105.75	Inf	-Inf	3.62	3	Vertical	149	1.92	-
PK	5.5626G	63.59	68.20	-4.61	3.26	3	Vertical	149	1.92	-
PK	5.7426G	114.94	Inf	-Inf	3.62	3	Vertical	149	1.92	-
PK	5.9454G	58.65	68.20	-9.55	4.02	3	Vertical	149	1.92	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

30/08/2018

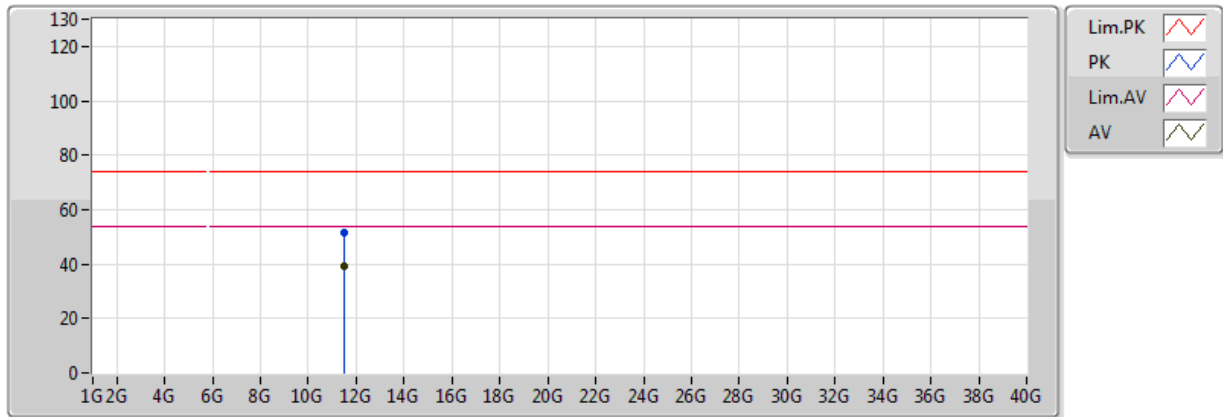


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.48704G	39.00	54.00	-15.00	13.58	3	Vertical	44	1.71	-
PK	11.48572G	52.43	74.00	-21.57	13.58	3	Vertical	44	1.71	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

30/08/2018

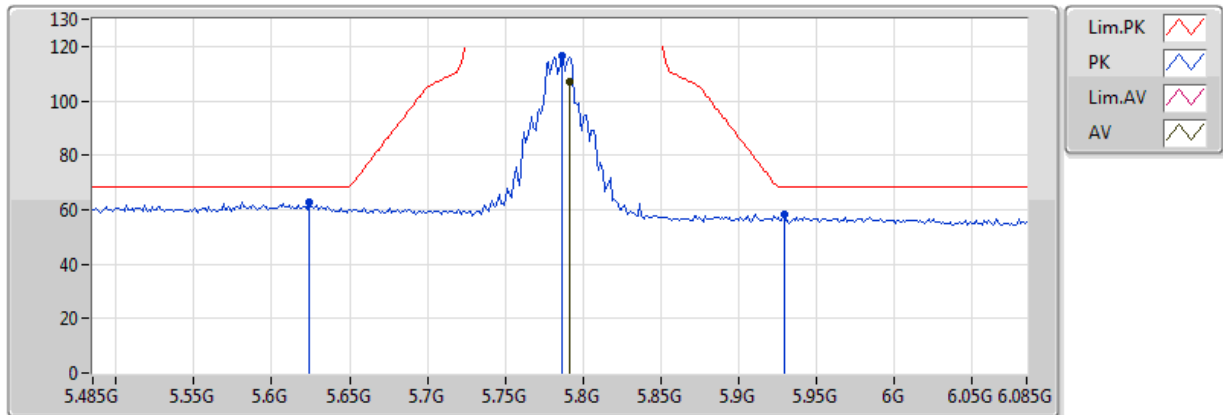


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.49328G	39.01	54.00	-14.99	13.58	3	Horizontal	157	2.22	-
PK	11.48732G	51.78	74.00	-22.22	13.58	3	Horizontal	157	2.22	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

30/08/2018

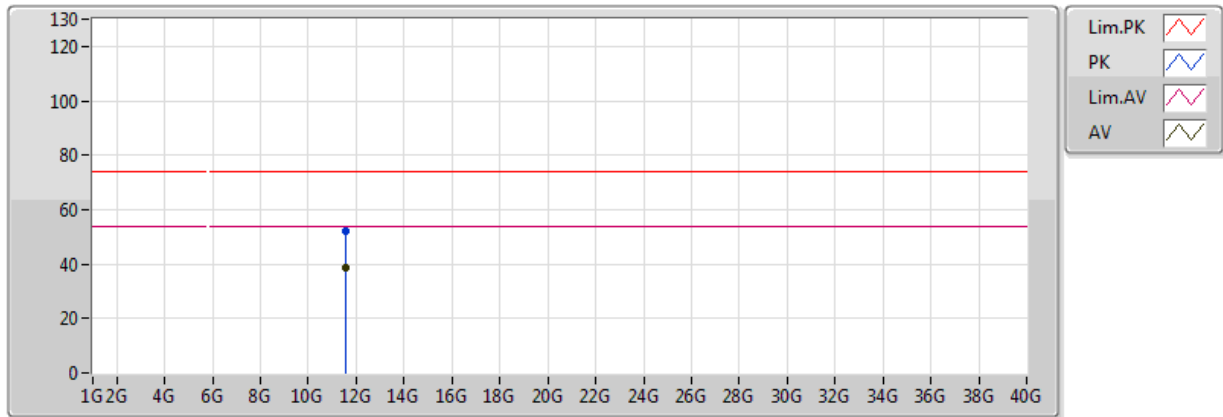


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.791G	106.93	Inf	-Inf	3.71	3	Vertical	322	1.97	-
PK	5.6242G	62.73	68.20	-5.47	3.39	3	Vertical	322	1.97	-
PK	5.7862G	116.28	Inf	-Inf	3.70	3	Vertical	322	1.97	-
PK	5.929G	58.06	68.20	-10.14	3.99	3	Vertical	322	1.97	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

30/08/2018

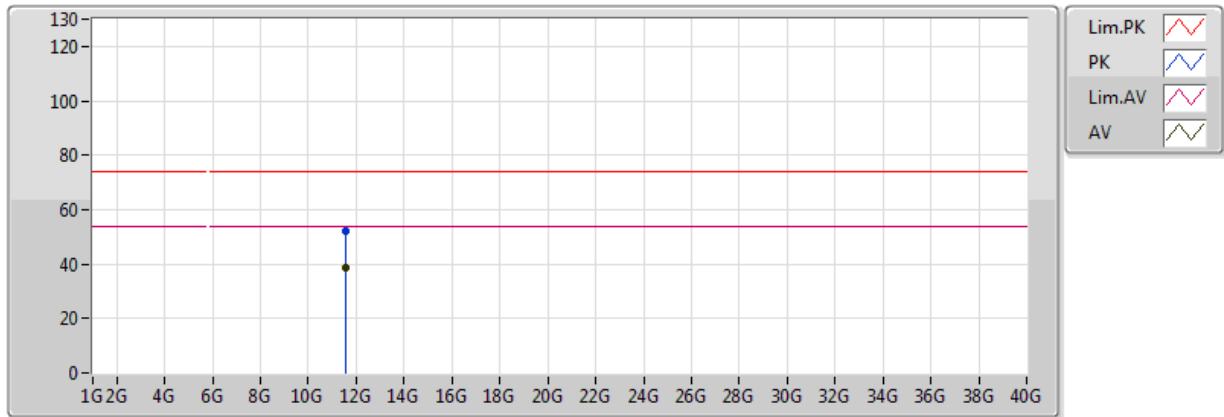


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.57394G	38.86	54.00	-15.14	13.50	3	Vertical	237	1.21	-
PK	11.5664G	52.18	74.00	-21.82	13.51	3	Vertical	237	1.21	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

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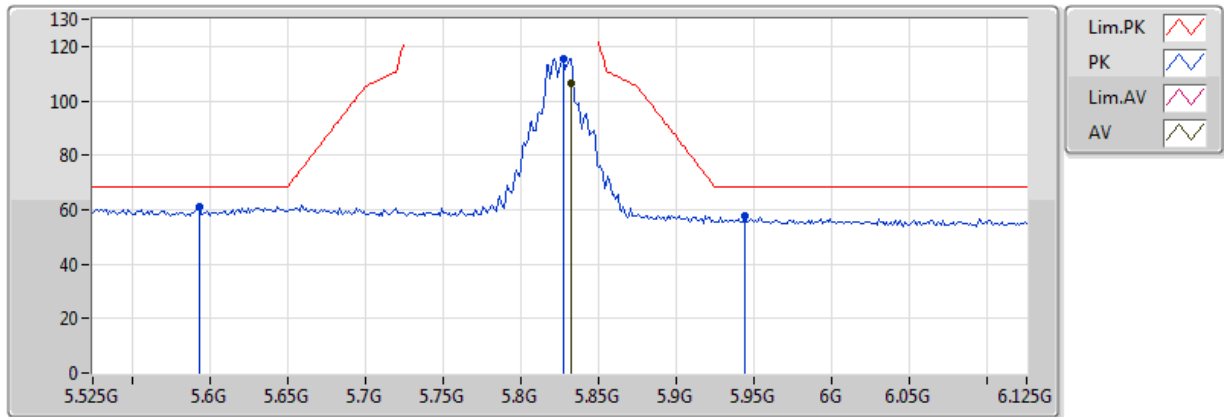


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.57358G	38.89	54.00	-15.11	13.50	3	Horizontal	189	1.61	-
PK	11.57256G	52.00	74.00	-22.00	13.50	3	Horizontal	189	1.61	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

30/08/2018

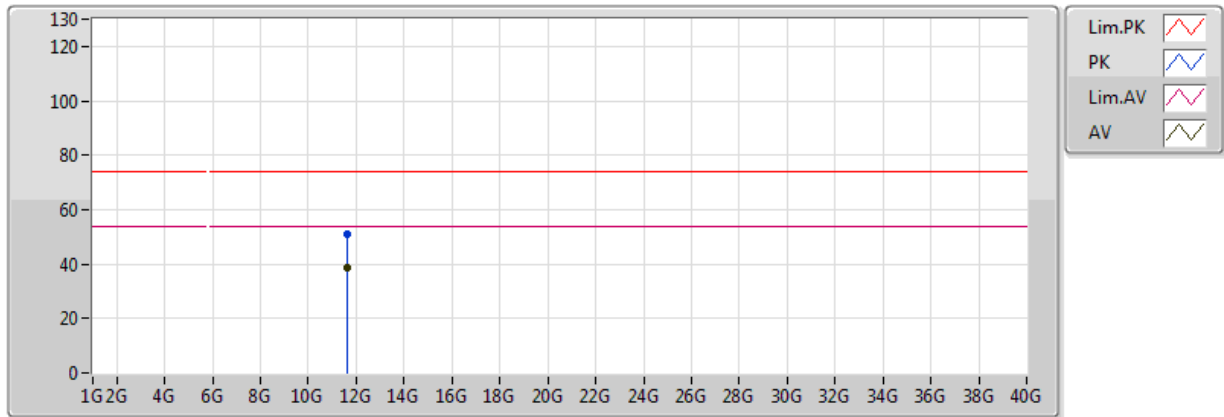


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.8322G	106.28	Inf	-Inf	3.79	3	Vertical	145	1.88	-
PK	5.5934G	60.84	68.20	-7.36	3.33	3	Vertical	145	1.88	-
PK	5.8274G	115.56	Inf	-Inf	3.78	3	Vertical	145	1.88	-
PK	5.9438G	57.91	68.20	-10.29	4.02	3	Vertical	145	1.88	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

30/08/2018

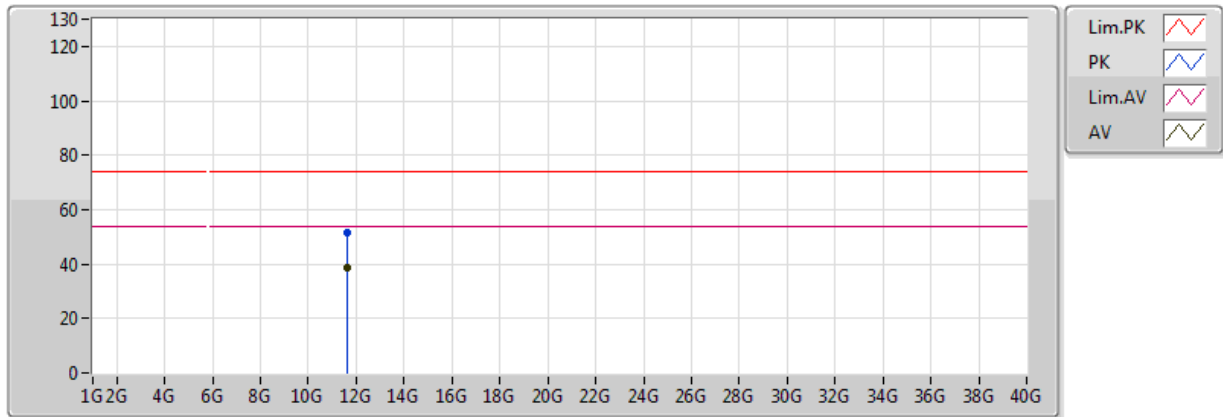


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.65008G	38.81	54.00	-15.19	13.43	3	Vertical	57	1.18	-
PK	11.64596G	51.05	74.00	-22.95	13.44	3	Vertical	57	1.18	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

30/08/2018

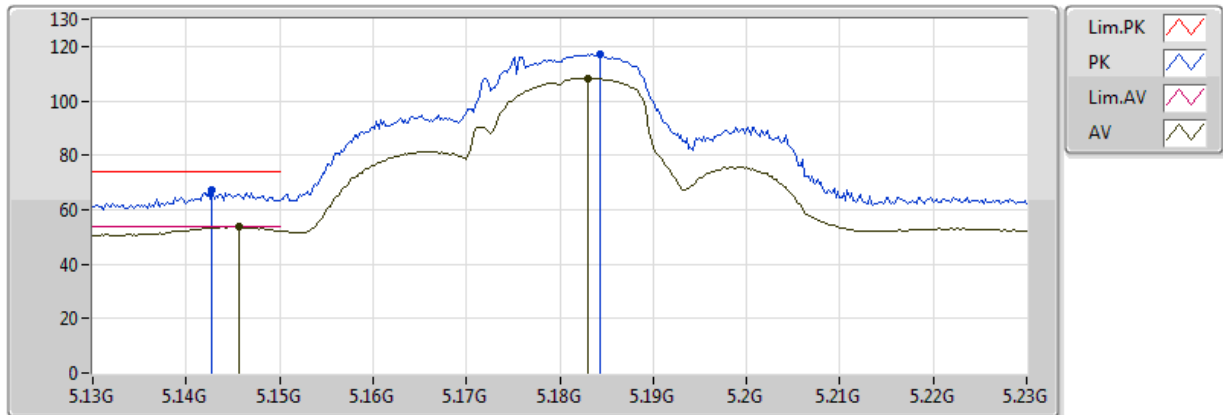


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.64568G	38.84	54.00	-15.16	13.44	3	Horizontal	358	1.25	-
PK	11.65032G	51.35	74.00	-22.65	13.43	3	Horizontal	358	1.25	-

802.11n HT20_Nss1,(MCS0)_2TX

5180MHz_TX

30/08/2018

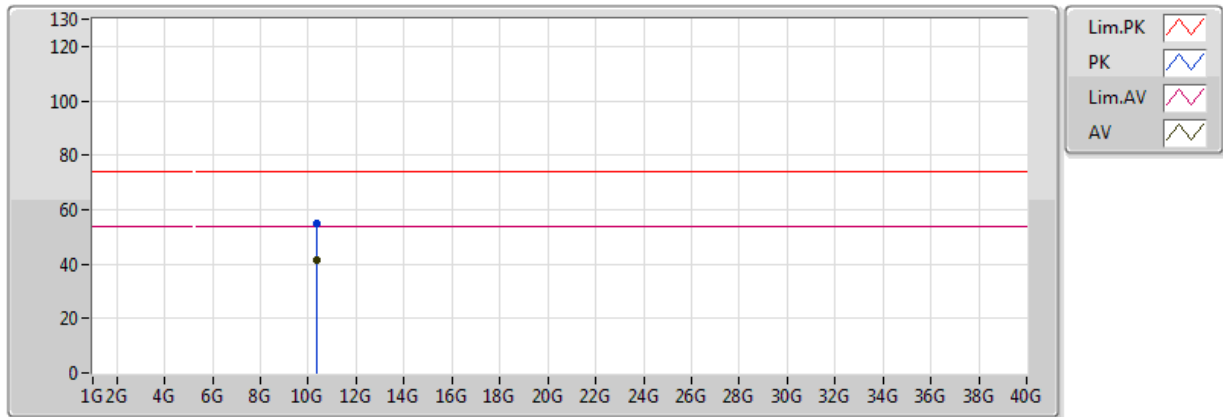


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1456G	53.72	54.00	-0.28	3.67	3	Vertical	10	1.85	-
AV	5.183G	108.16	Inf	-Inf	3.74	3	Vertical	10	1.85	-
PK	5.1428G	67.09	74.00	-6.91	3.67	3	Vertical	10	1.85	-
PK	5.1844G	117.08	Inf	-Inf	3.74	3	Vertical	10	1.85	-

802.11n HT20_Nss1,(MCS0)_2TX

5180MHz_TX

30/08/2018

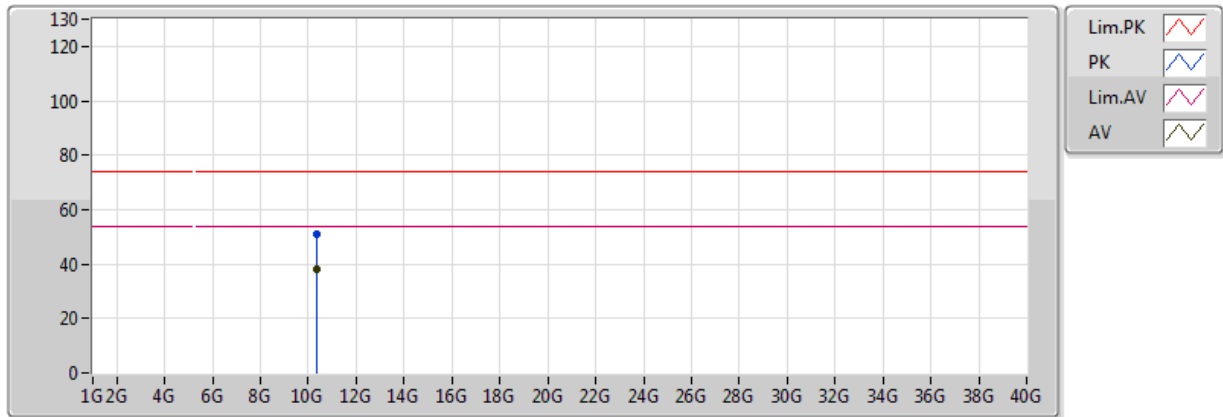


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.3622G	41.35	54.00	-12.65	12.64	3	Vertical	100	1.93	-
PK	10.3594G	55.04	74.00	-18.96	12.63	3	Vertical	100	1.93	-

802.11n HT20_Nss1,(MCS0)_2TX

5180MHz_TX

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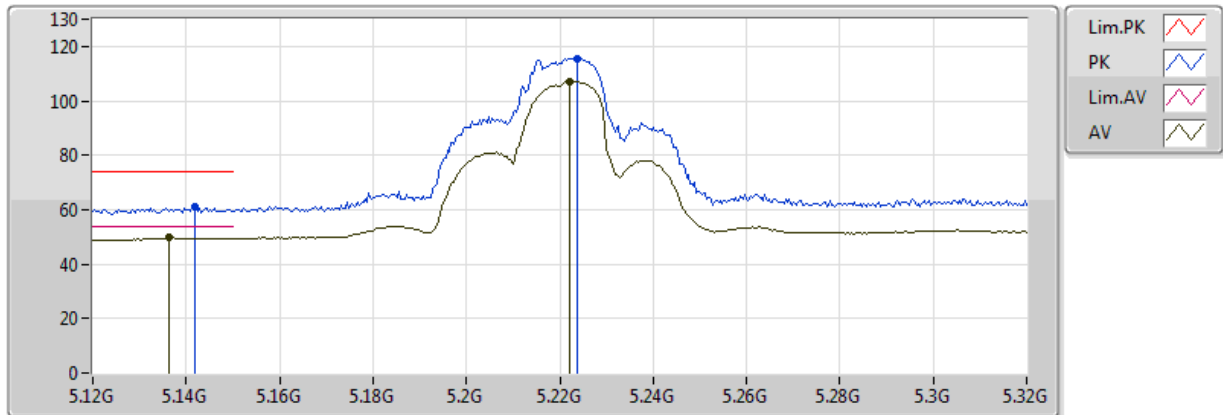


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.35878G	38.15	54.00	-15.85	12.63	3	Horizontal	22	1.34	-
PK	10.36334G	51.17	74.00	-22.83	12.64	3	Horizontal	22	1.34	-

802.11n HT20_Nss1,(MCS0)_2TX

5220MHz_TX

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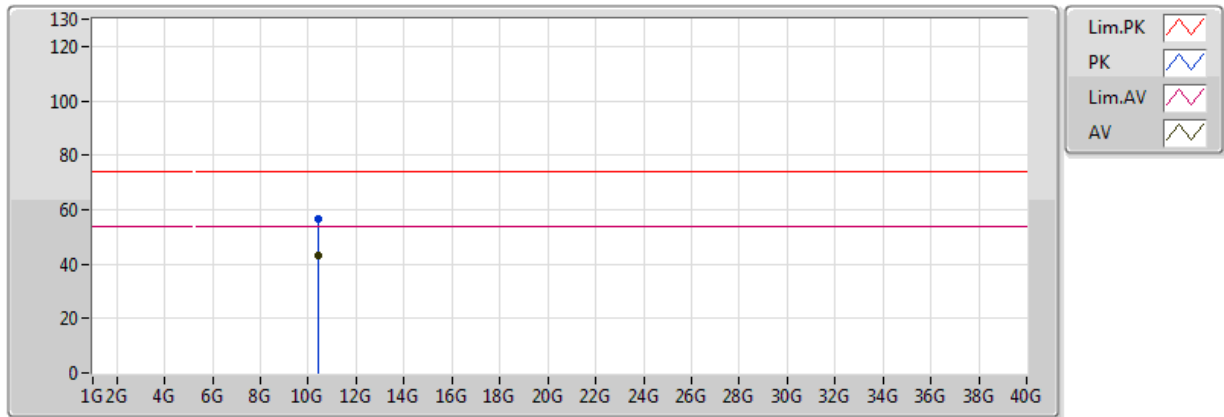


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.142G	60.89	74.00	-13.11	3.67	3	Vertical	24	1.50	-
AV	5.1364G	49.61	54.00	-4.39	3.65	3	Vertical	24	1.50	-
PK	5.2236G	115.61	Inf	-Inf	3.81	3	Vertical	24	1.50	-
AV	5.222G	106.98	Inf	-Inf	3.81	3	Vertical	24	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

5220MHz_TX

30/08/2018

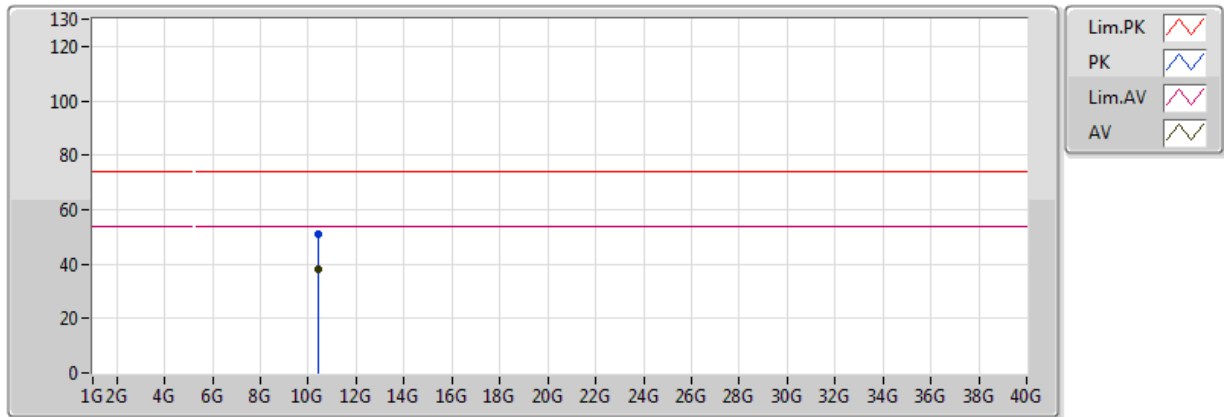


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.4443G	43.01	54.00	-10.99	12.82	3	Vertical	173	1.58	-
PK	10.4444G	56.43	74.00	-17.57	12.82	3	Vertical	173	1.58	-

802.11n HT20_Nss1,(MCS0)_2TX

5220MHz_TX

30/08/2018

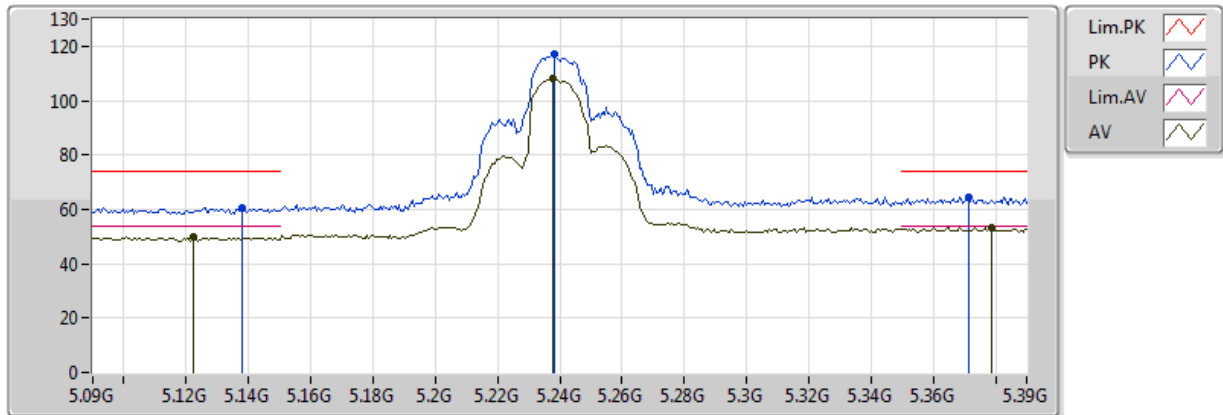


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.43684G	38.03	54.00	-15.97	12.80	3	Horizontal	347	1.12	-
PK	10.44338G	51.06	74.00	-22.94	12.82	3	Horizontal	347	1.12	-

802.11n HT20_Nss1,(MCS0)_2TX

5240MHz_TX

30/08/2018

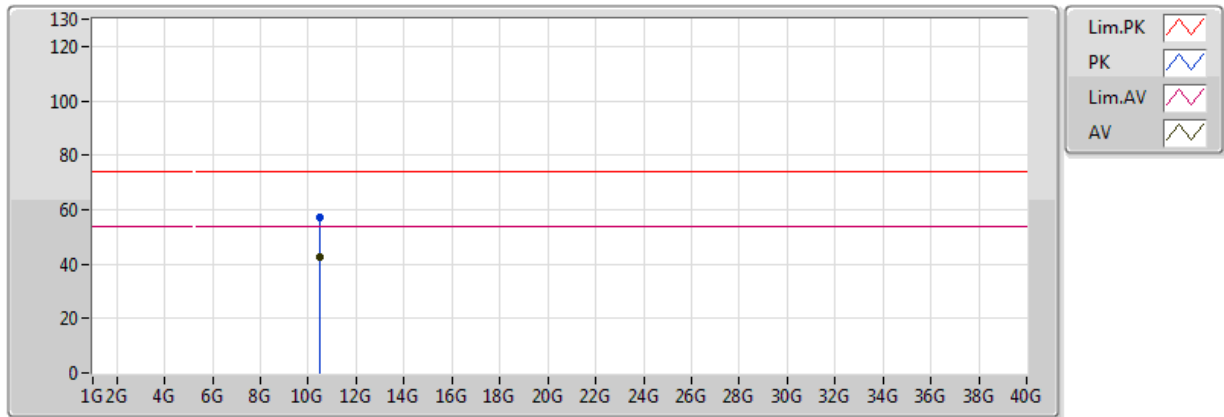


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1224G	49.74	54.00	-4.26	3.63	3	Vertical	19	1.84	-
AV	5.2376G	107.89	Inf	-Inf	3.84	3	Vertical	19	1.84	-
AV	5.3786G	53.23	54.00	-0.77	4.10	3	Vertical	19	1.84	-
PK	5.138G	60.57	74.00	-13.43	3.66	3	Vertical	19	1.84	-
PK	5.2382G	116.86	Inf	-Inf	3.84	3	Vertical	19	1.84	-
PK	5.3714G	64.43	74.00	-9.57	4.09	3	Vertical	19	1.84	-

802.11n HT20_Nss1,(MCS0)_2TX

5240MHz_TX

30/08/2018

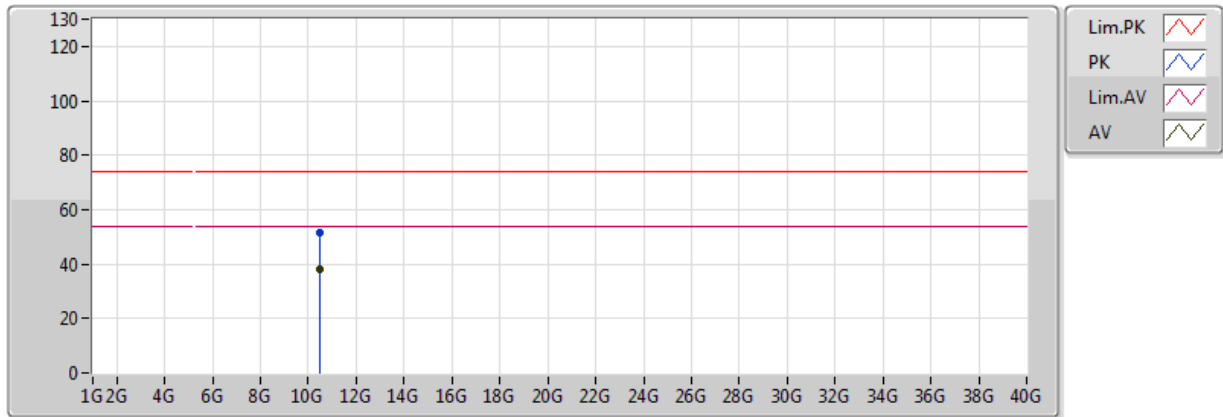


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.4817G	42.79	54.00	-11.21	12.90	3	Vertical	74	2.19	-
PK	10.4848G	56.91	74.00	-17.09	12.91	3	Vertical	74	2.19	-

802.11n HT20_Nss1,(MCS0)_2TX

5240MHz_TX

30/08/2018

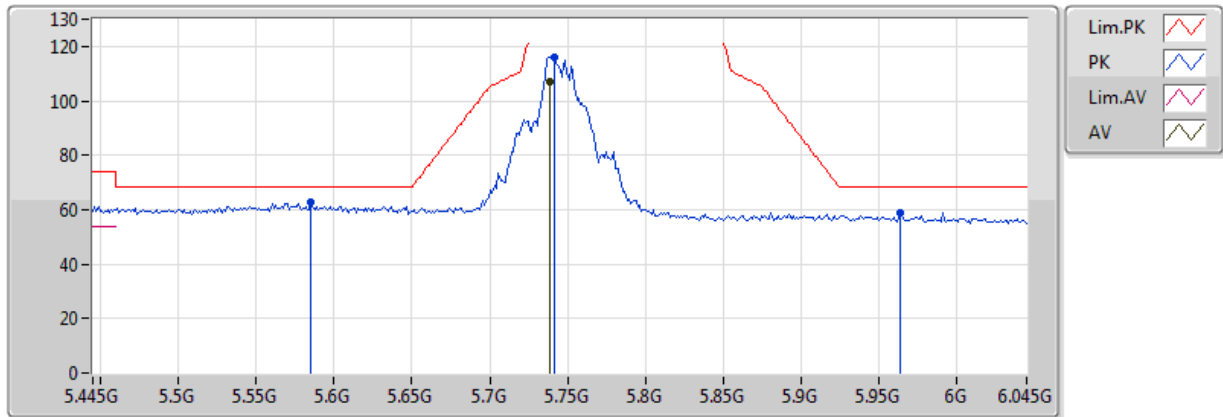


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.48304G	38.34	54.00	-15.66	12.90	3	Horizontal	54	2.34	-
PK	10.47916G	51.56	74.00	-22.44	12.89	3	Horizontal	54	2.34	-

802.11n HT20_Nss1,(MCS0)_2TX

5745MHz_TX

30/08/2018

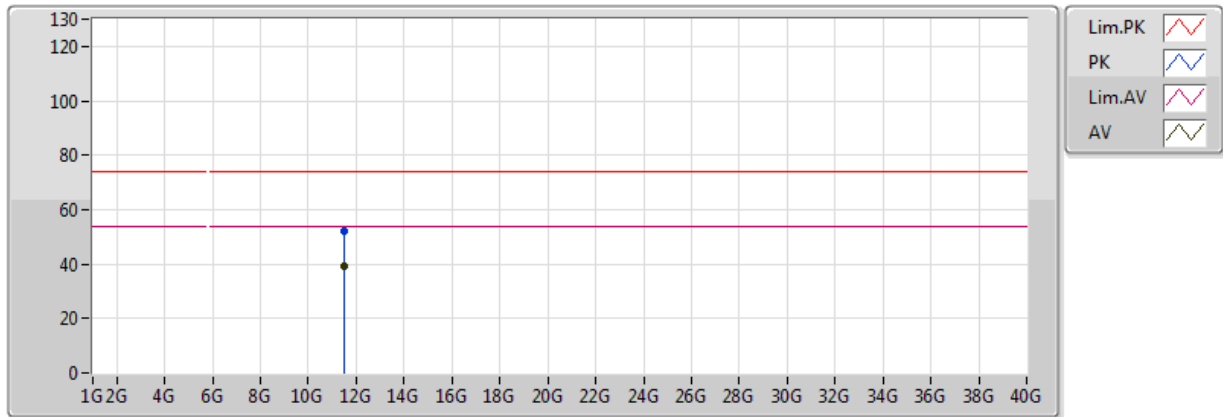


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.739G	107.27	Inf	-Inf	3.61	3	Vertical	168	1.79	-
PK	5.5854G	62.78	68.20	-5.42	3.31	3	Vertical	168	1.79	-
PK	5.7414G	116.12	Inf	-Inf	3.62	3	Vertical	168	1.79	-
PK	5.9634G	59.03	68.20	-9.17	4.05	3	Vertical	168	1.79	-

802.11n HT20_Nss1,(MCS0)_2TX

5745MHz_TX

30/08/2018

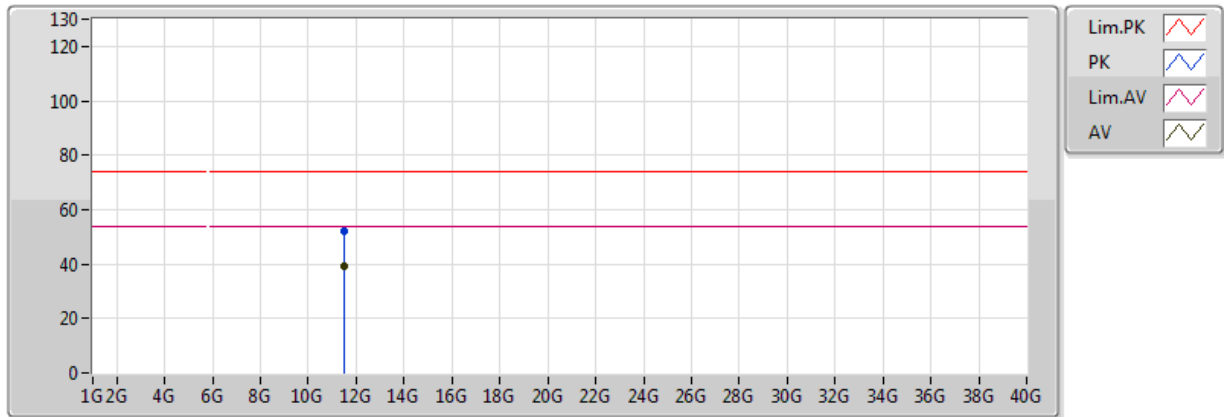


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.486G	39.00	54.00	-15.00	13.58	3	Vertical	337	2.31	-
PK	11.49386G	52.13	74.00	-21.87	13.58	3	Vertical	337	2.31	-

802.11n HT20_Nss1,(MCS0)_2TX

5745MHz_TX

30/08/2018

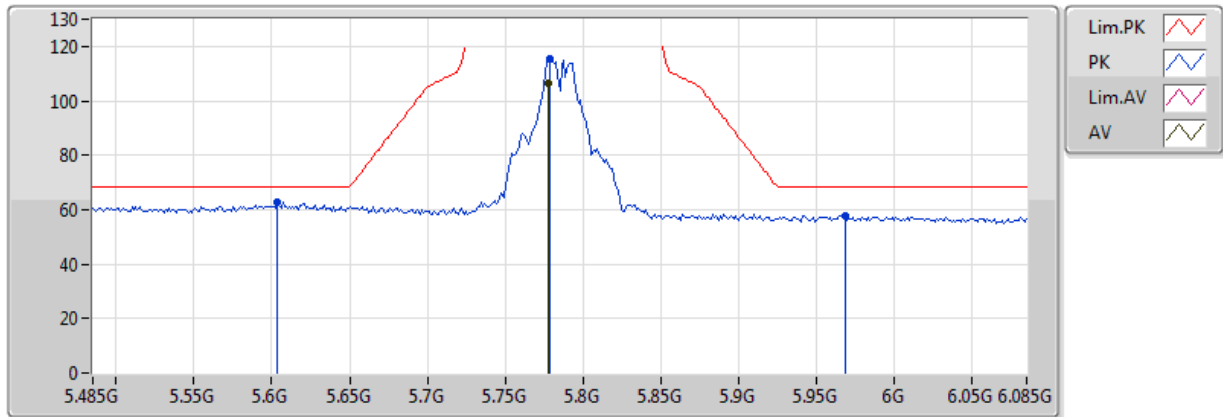


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.4851G	39.10	54.00	-14.90	13.58	3	Horizontal	245	1.82	-
PK	11.48714G	51.91	74.00	-22.09	13.58	3	Horizontal	245	1.82	-

802.11n HT20_Nss1,(MCS0)_2TX

5785MHz_TX

30/08/2018

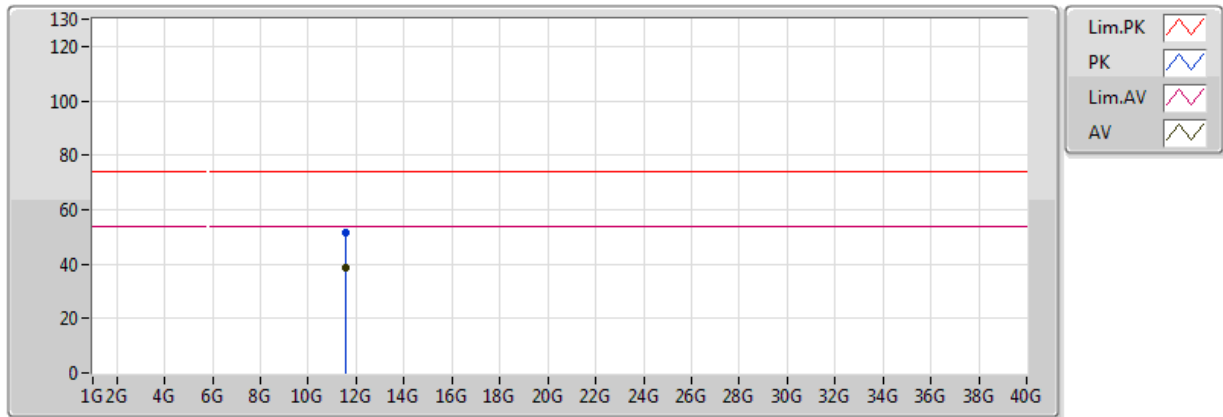


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7778G	106.35	Inf	-Inf	3.69	3	Vertical	5	1.83	-
PK	5.6038G	62.81	68.20	-5.39	3.35	3	Vertical	5	1.83	-
PK	5.779G	115.41	Inf	-Inf	3.69	3	Vertical	5	1.83	-
PK	5.9686G	57.84	68.20	-10.36	4.07	3	Vertical	5	1.83	-

802.11n HT20_Nss1,(MCS0)_2TX

5785MHz_TX

30/08/2018

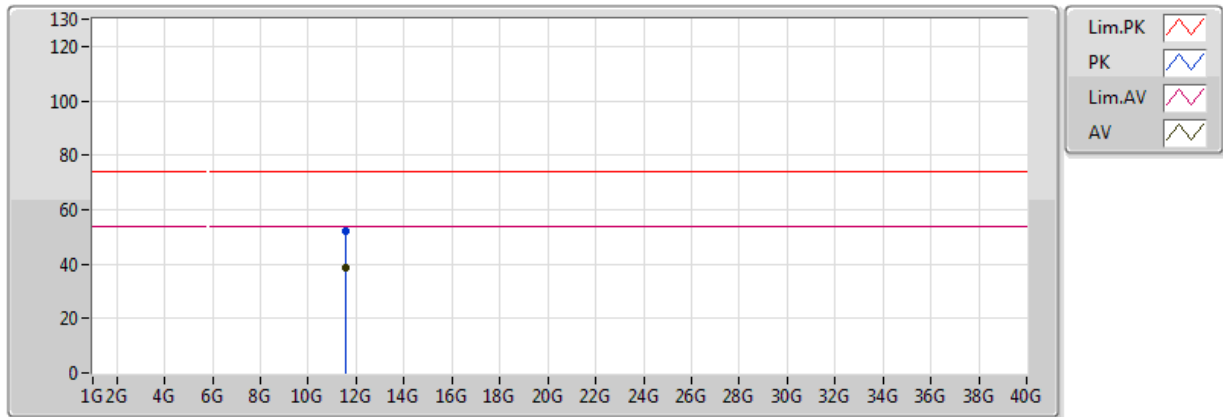


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.5726G	38.67	54.00	-15.33	13.50	3	Vertical	6	1.92	-
PK	11.57092G	51.71	74.00	-22.29	13.50	3	Vertical	6	1.92	-

802.11n HT20_Nss1,(MCS0)_2TX

5785MHz_TX

30/08/2018

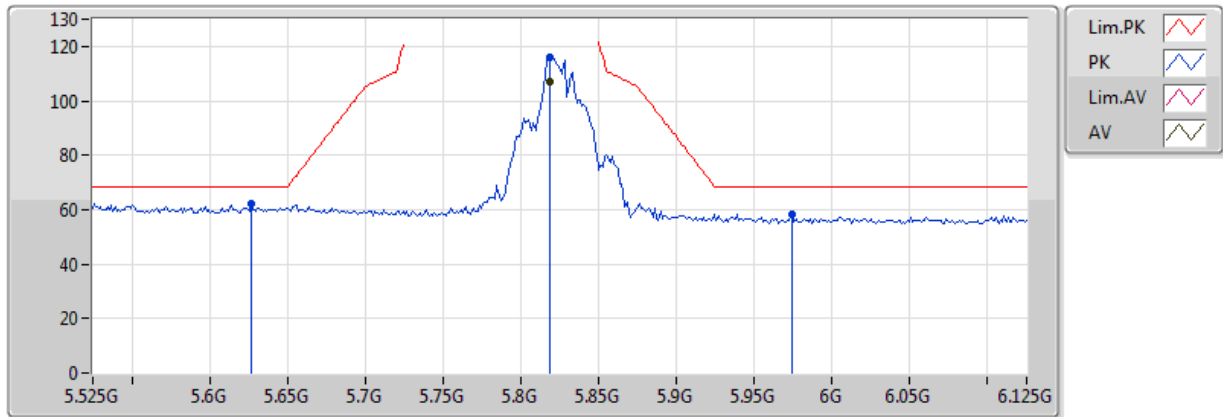


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.5742G	38.69	54.00	-15.31	13.50	3	Horizontal	201	2.05	-
PK	11.5671G	51.87	74.00	-22.13	13.51	3	Horizontal	201	2.05	-

802.11n HT20_Nss1,(MCS0)_2TX

5825MHz_TX

30/08/2018

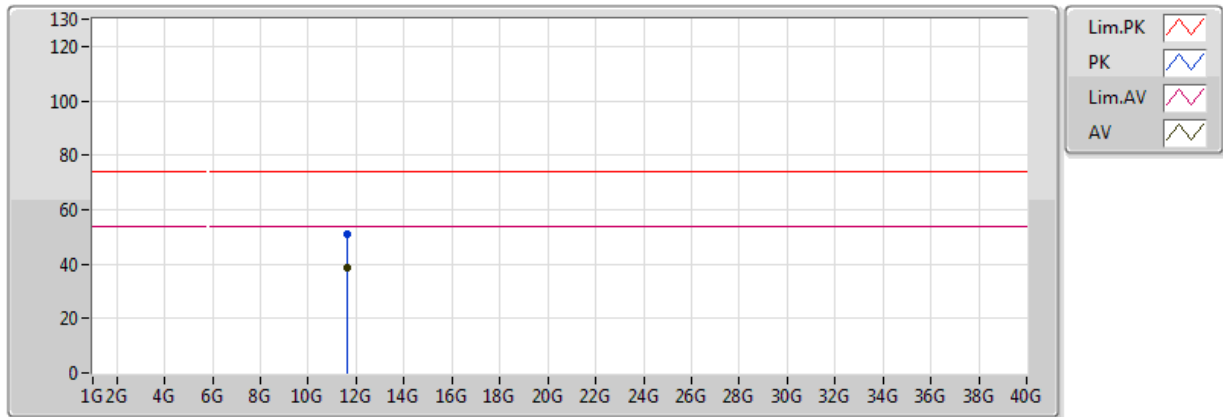


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.819G	106.88	Inf	-Inf	3.77	3	Vertical	166	1.95	-
PK	5.627G	62.05	68.20	-6.15	3.40	3	Vertical	166	1.95	-
PK	5.819G	116.02	Inf	-Inf	3.77	3	Vertical	166	1.95	-
PK	5.9738G	58.25	68.20	-9.95	4.07	3	Vertical	166	1.95	-

802.11n HT20_Nss1,(MCS0)_2TX

5825MHz_TX

30/08/2018

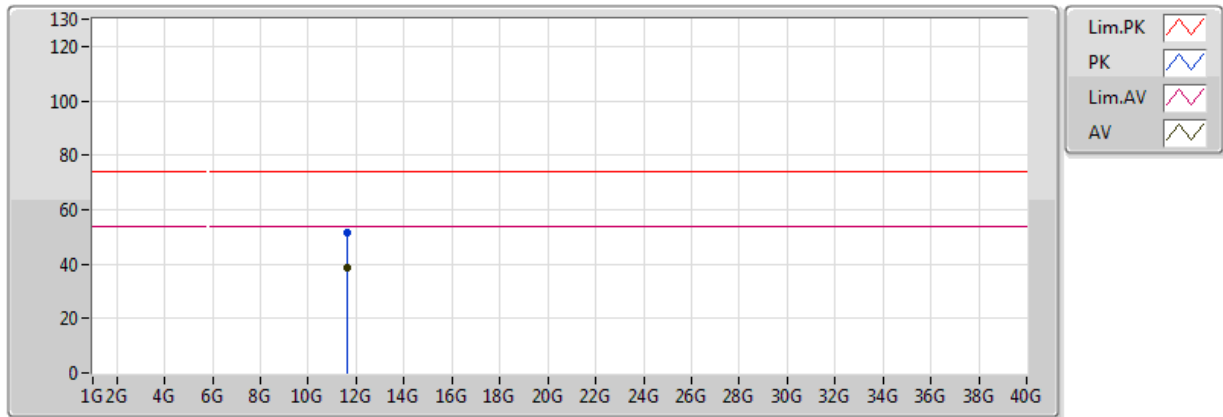


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.64522G	38.82	54.00	-15.18	13.44	3	Vertical	325	1.36	-
PK	11.64808G	51.27	74.00	-22.73	13.43	3	Vertical	325	1.36	-

802.11n HT20_Nss1,(MCS0)_2TX

5825MHz_TX

30/08/2018

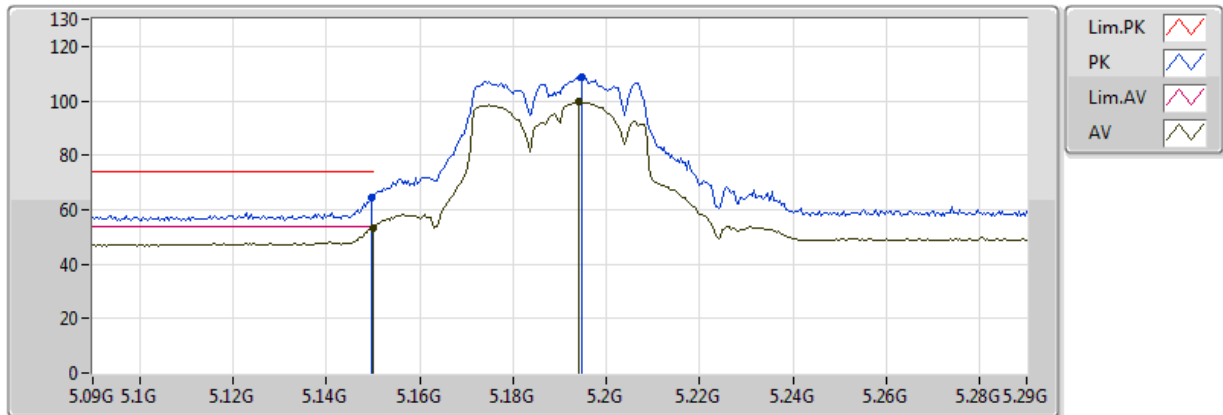


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.64516G	38.66	54.00	-15.34	13.44	3	Horizontal	176	1.22	-
PK	11.6518G	51.64	74.00	-22.36	13.43	3	Horizontal	176	1.22	-

802.11n HT40_Nss1,(MCS0)_2TX

5190MHz_TX

30/08/2018

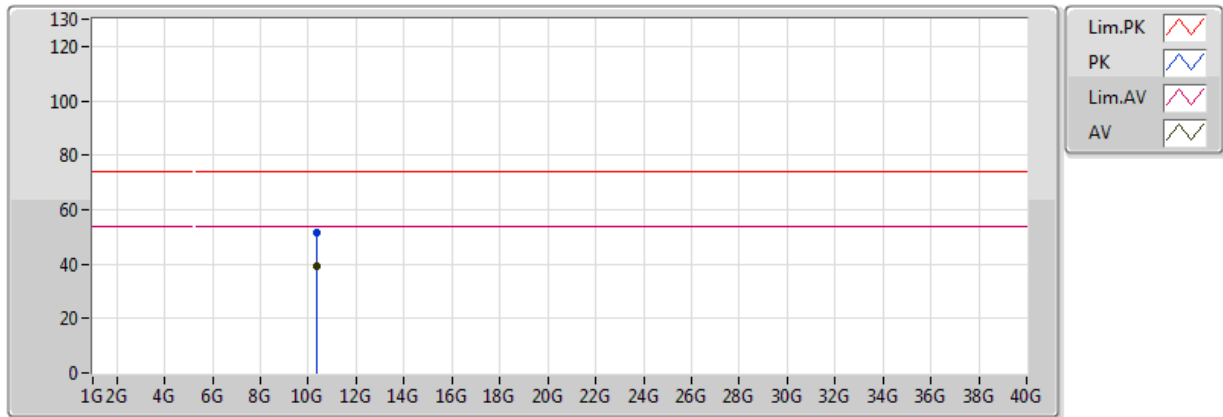


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.149995G	53.20	54.00	-0.80	3.68	3	Vertical	10	1.58	-
AV	5.194G	99.48	Inf	-Inf	3.76	3	Vertical	10	1.58	-
PK	5.1496G	64.22	74.00	-9.78	3.68	3	Vertical	10	1.58	-
PK	5.1948G	108.66	Inf	-Inf	3.76	3	Vertical	10	1.58	-

802.11n HT40_Nss1,(MCS0)_2TX

5190MHz_TX

30/08/2018

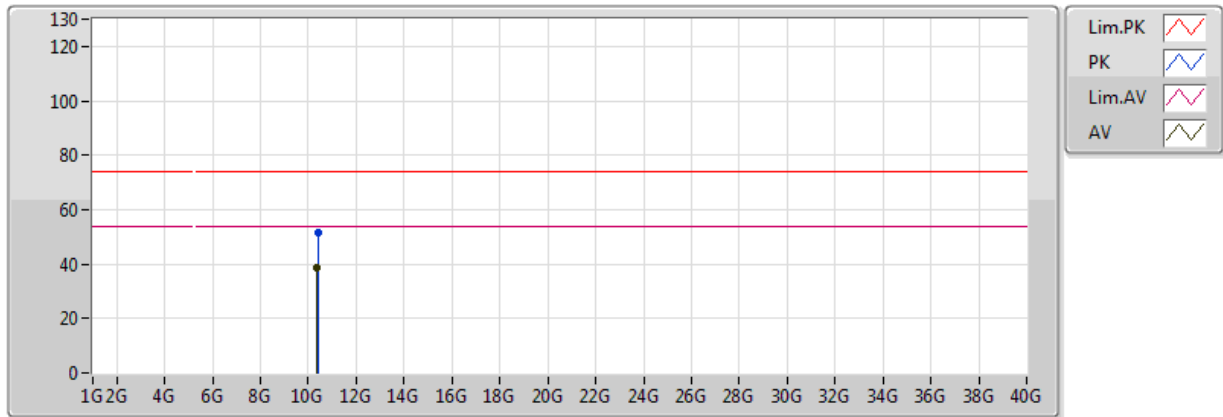


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.38356G	39.00	54.00	-15.00	12.69	3	Vertical	305	1.81	-
PK	10.38282G	51.37	74.00	-22.63	12.68	3	Vertical	305	1.81	-

802.11n HT40_Nss1,(MCS0)_2TX

5190MHz_TX

30/08/2018

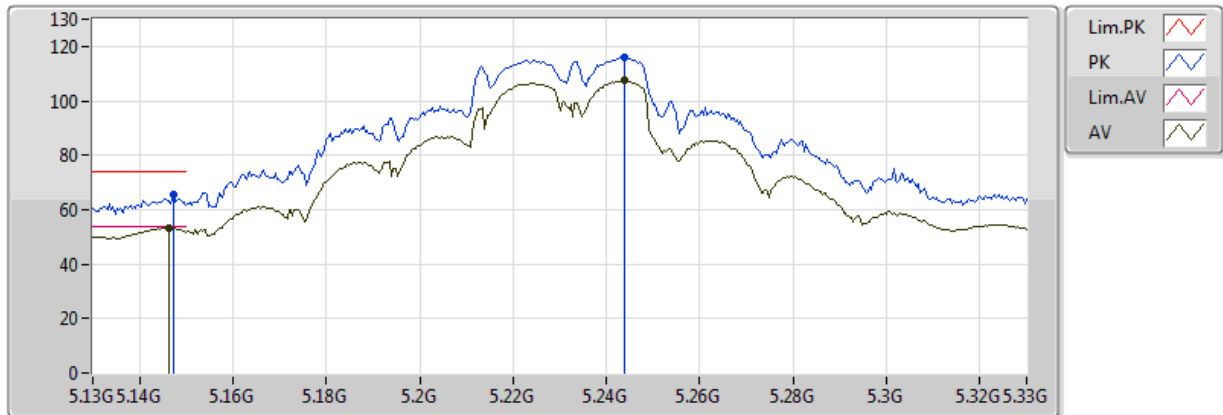


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.37646G	38.87	54.00	-15.13	12.67	3	Horizontal	74	1.31	-
PK	10.38476G	51.52	74.00	-22.48	12.69	3	Horizontal	74	1.31	-

802.11n HT40_Nss1,(MCS0)_2TX

5230MHz_TX

30/08/2018

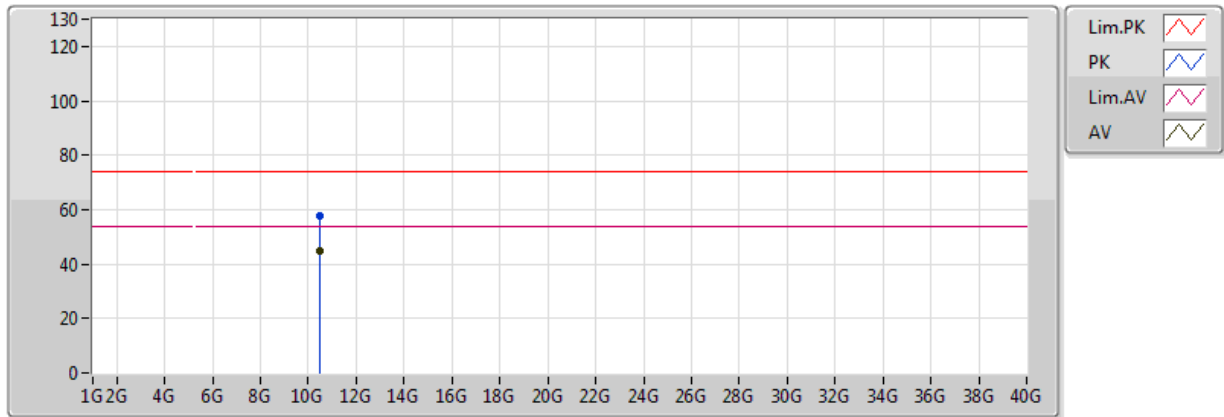


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1464G	53.31	54.00	-0.69	3.68	3	Vertical	10	1.50	-
AV	5.244G	107.51	Inf	-Inf	3.85	3	Vertical	10	1.50	-
PK	5.1472G	65.49	74.00	-8.51	3.68	3	Vertical	10	1.50	-
PK	5.244G	116.15	Inf	-Inf	3.85	3	Vertical	10	1.50	-

802.11n HT40_Nss1,(MCS0)_2TX

5230MHz_TX

30/08/2018

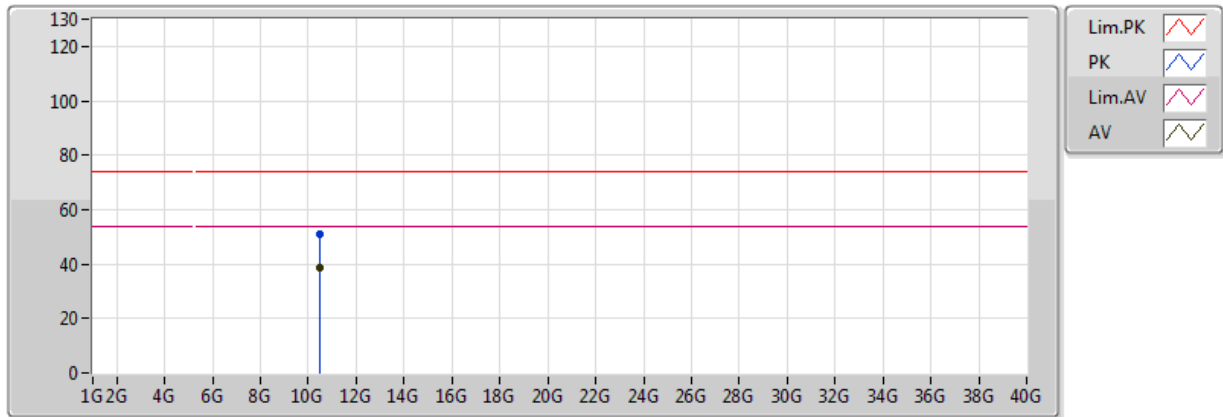


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.4642G	44.58	54.00	-9.42	12.86	3	Vertical	240	1.12	-
PK	10.4562G	57.63	74.00	-16.37	12.84	3	Vertical	240	1.12	-

802.11n HT40_Nss1,(MCS0)_2TX

5230MHz_TX

30/08/2018

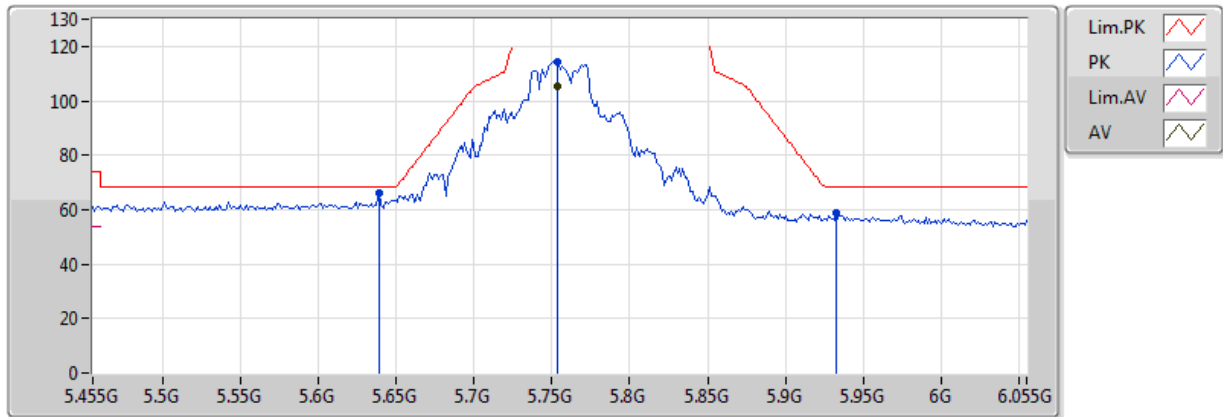


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.45874G	38.91	54.00	-15.09	12.85	3	Horizontal	284	1.54	-
PK	10.4564G	51.25	74.00	-22.75	12.84	3	Horizontal	284	1.54	-

802.11n HT40_Nss1,(MCS0)_2TX

5755MHz_TX

30/08/2018

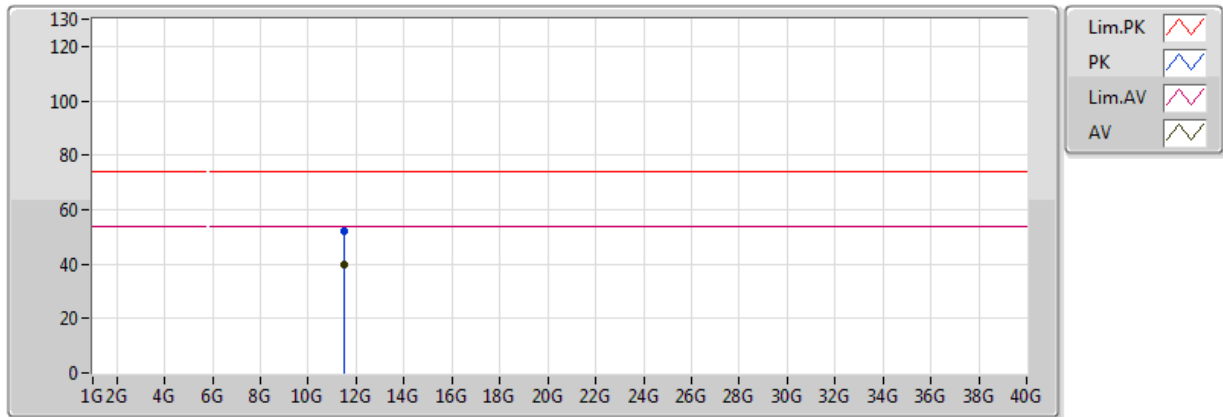


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7538G	105.44	Inf	-Inf	3.64	3	Vertical	314	1.83	-
PK	5.6386G	66.14	68.20	-2.06	3.42	3	Vertical	314	1.83	-
PK	5.7538G	114.44	Inf	-Inf	3.64	3	Vertical	314	1.83	-
PK	5.9326G	58.62	68.20	-9.58	4.00	3	Vertical	314	1.83	-

802.11n HT40_Nss1,(MCS0)_2TX

5755MHz_TX

30/08/2018

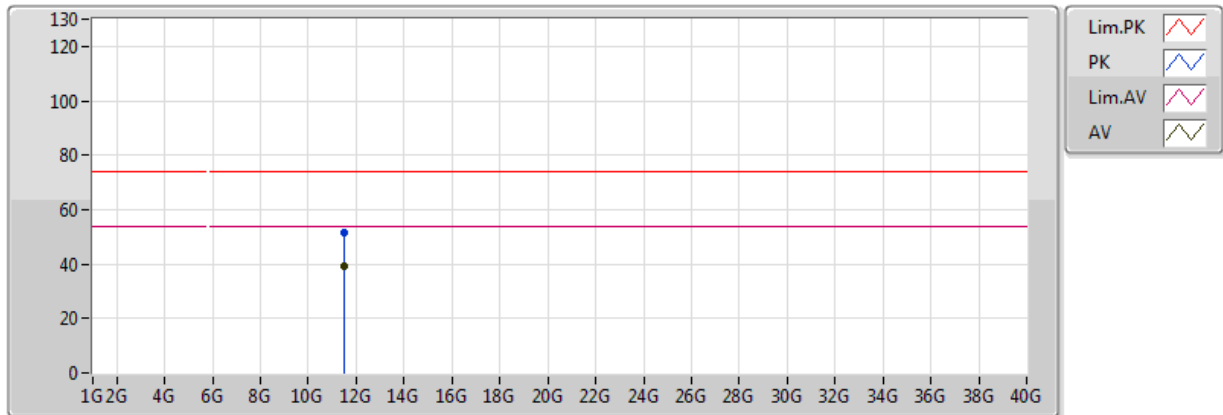


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.50888G	39.62	54.00	-14.38	13.56	3	Vertical	161	1.16	-
PK	11.5124G	51.97	74.00	-22.03	13.56	3	Vertical	161	1.16	-

802.11n HT40_Nss1,(MCS0)_2TX

5755MHz_TX

30/08/2018

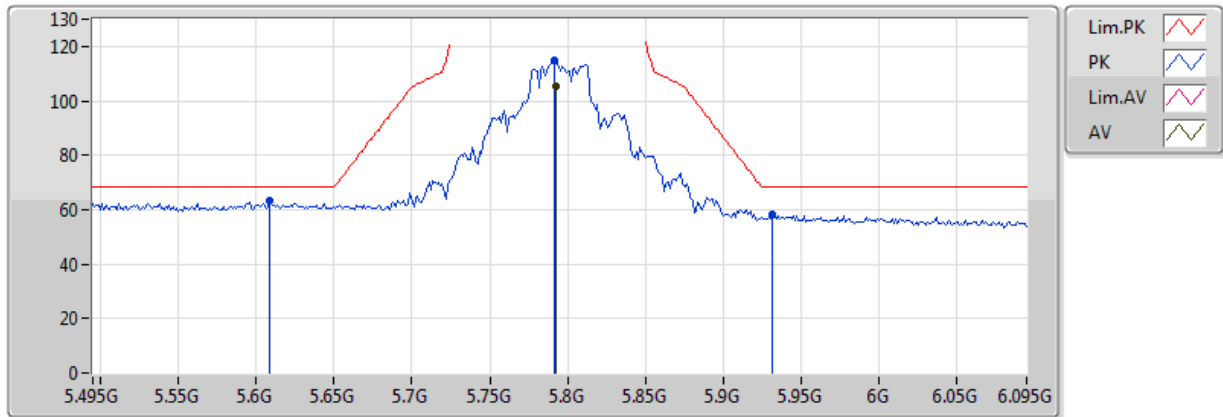


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.50996G	39.45	54.00	-14.55	13.56	3	Horizontal	331	1.76	-
PK	11.50876G	51.65	74.00	-22.35	13.56	3	Horizontal	331	1.76	-

802.11n HT40_Nss1,(MCS0)_2TX

5795MHz_TX

30/08/2018

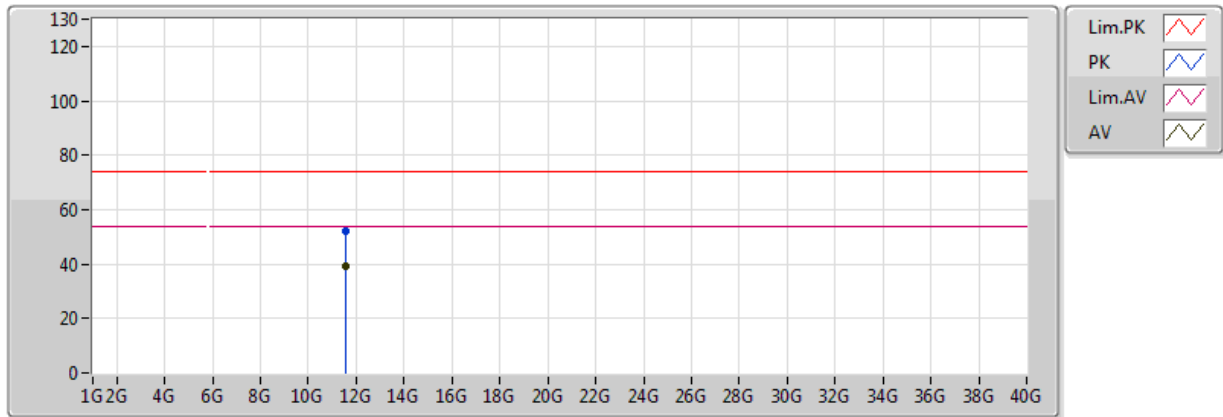


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7926G	105.51	Inf	-Inf	3.72	3	Vertical	314	1.81	-
PK	5.609G	63.18	68.20	-5.02	3.36	3	Vertical	314	1.81	-
PK	5.7914G	114.64	Inf	-Inf	3.71	3	Vertical	314	1.81	-
PK	5.9318G	58.20	68.20	-10.00	3.99	3	Vertical	314	1.81	-

802.11n HT40_Nss1,(MCS0)_2TX

5795MHz_TX

30/08/2018

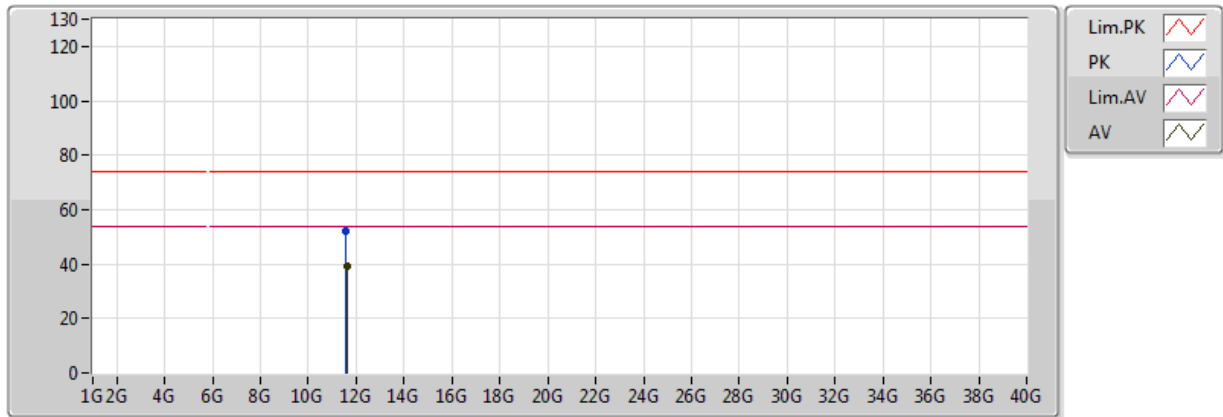


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.59216G	39.38	54.00	-14.62	13.49	3	Vertical	297	1.46	-
PK	11.5868G	52.21	74.00	-21.79	13.49	3	Vertical	297	1.46	-

802.11n HT40_Nss1,(MCS0)_2TX

5795MHz_TX

30/08/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.5937G	39.28	54.00	-14.72	13.48	3	Horizontal	41	1.34	-
PK	11.58564G	51.85	74.00	-22.15	13.49	3	Horizontal	41	1.34	-



RSE above 1GHz Result

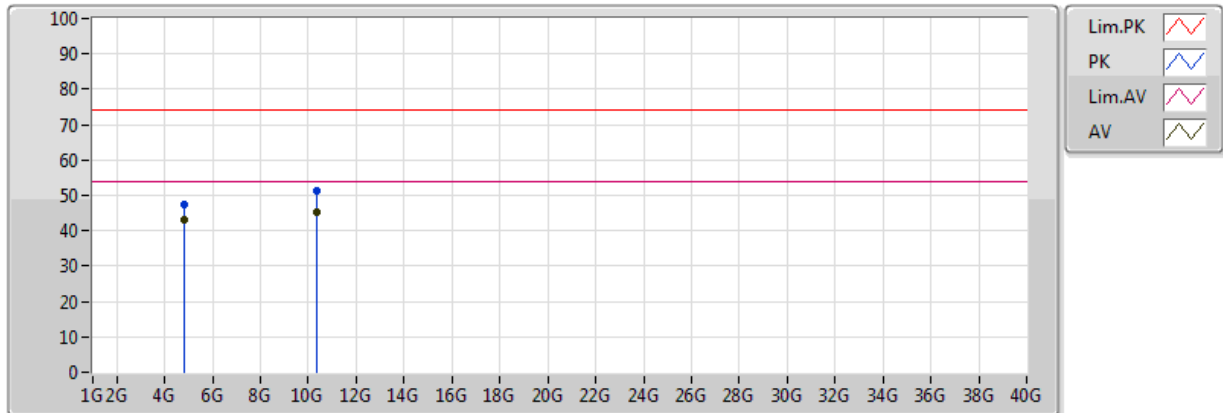
Appendix E

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	4.824G	48.02	54.00	-5.98	2.13	3	Vertical	244	1.50	-

Radiation-above 1GHz_Mode 1

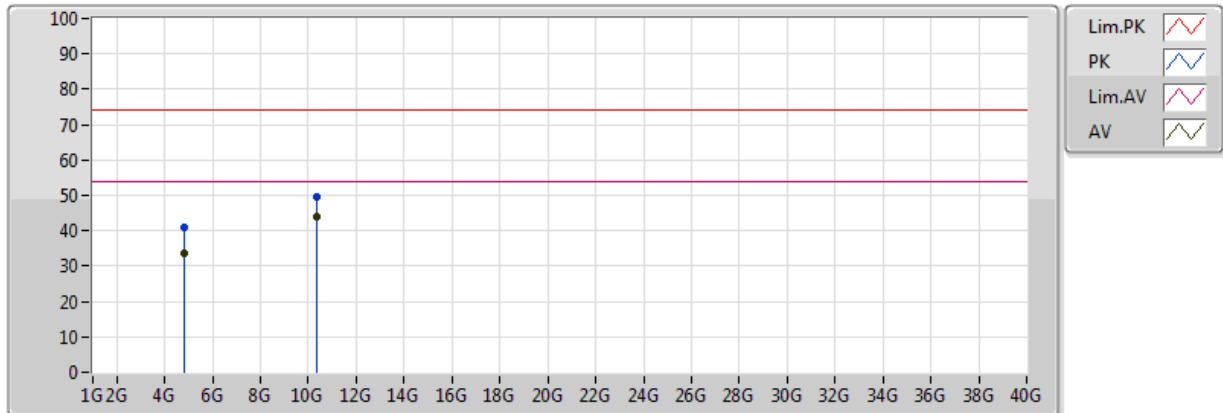
07/09/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.824G	42.98	54.00	-11.02	2.13	3	Vertical	154	1.67	-
AV	10.36549G	45.24	54.00	-8.76	12.65	3	Vertical	212	1.21	-
PK	4.82406G	47.60	74.00	-26.40	2.13	3	Vertical	154	1.67	-
PK	10.37126G	51.15	74.00	-22.85	12.66	3	Vertical	212	1.21	-

Radiation-above 1GHz_Mode 1

07/09/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.824G	33.73	54.00	-20.27	2.09	3	Horizontal	345	1.89	-
AV	10.36878G	43.86	54.00	-10.14	12.65	3	Horizontal	79	2.31	-
PK	4.82406G	40.84	74.00	-33.16	2.09	3	Horizontal	345	1.89	-
PK	10.36432G	49.77	74.00	-24.23	12.64	3	Horizontal	79	2.31	-