

FCC Test Report

FCC ID : VUIUPWL6580
Equipment : Wireless module
Brand Name : PEGATRON
Model Name : UPWL6580
Applicant : PEGATRON CORPORATION
5F., NO. 76, LIGONG ST., BEITOU DISTRICT,
TAIPEI CITY 112 Taiwan
Manufacturer : PEGATRON CORPORATION
5F., NO. 76, LIGONG ST., BEITOU DISTRICT,
TAIPEI CITY 112 Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Oct. 23, 2018, and testing was started from Oct. 30, 2018 and completed on Nov. 30, 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 variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Phoenix Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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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	-

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: Sam Tsai

Report Producer: Jenny Yang

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	3TX
5.725-5.85GHz	802.11a	20	3TX
5.15-5.25GHz	802.11n HT20	20	3TX
5.725-5.85GHz	802.11n HT20	20	3TX
5.15-5.25GHz	802.11n HT40	40	3TX
5.725-5.85GHz	802.11n HT40	40	3TX

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	Gain (dBi)
1	Wanshih	UC3WFI0057	PCB Antenna	I-PEX	1.99
2	Wanshih	UC3WFI0058	PCB Antenna	I-PEX	2.08
3	Wanshih	UC3WFI0090	PCB Antenna	I-PEX	2.03

Note 1: The EUT has three antennas.

For 5GHz function:

For IEEE 802.11 a/n mode (3TX/3RX)

Ant. 1, Ant. 2 and Ant. 3 could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From Switching Power Supply		
EUT Function	☐ Outdoor	☐ Indoor	
	☐ Fixed P2P	☒ Client	
Beamforming Function	☐ With beamforming	☒ Without beamforming	
TPC Function	☐ With TPC Function	☒ Without TPC Function	
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.:	Equipment Name: Wireless Cable Modem Brand Name: CISCO Model No.: DPC3939	
☐	Other:		

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.969	0.137	1.361m	1k
802.11n HT20	0.967	0.146	1.274m	1k
802.11n HT40	0.953	0.209	633.75u	3k

1.1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR272809AI and FR272809AN. Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Updated standard	All test items were evaluated
11a mode was changed from 1TX to 3TX	
The EUT was limited to Wireless Cable Modem	

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
AC Conduction	CO04-HY	Jeremy	21°C / 59.8%	30/Oct/2018
RF Conducted	TH06-HY	Streak	23.1°C / 61%	30/Nov/2018
Radiated	03CH09-HY	Andy	22.8°C / 59%	29/Nov/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)	3.54 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	120V

2.2 Test Channel Mode

Test Software	art
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Mode	Power Setting
802.11a_Nss1,(6Mbps)_3TX	-
5180MHz	19.5
5200MHz	19.5
5240MHz	19.5
5745MHz	25
5785MHz	28
5825MHz	31.5
802.11n HT20_Nss1,(MCS0)_3TX	-
5180MHz	19.5
5200MHz	19.5
5240MHz	20
5745MHz	25
5785MHz	28
5825MHz	31.5
802.11n HT40_Nss1,(MCS0)_3TX	-
5190MHz	15
5230MHz	20.5
5755MHz	24
5795MHz	26

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	Switching Power Supply mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	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	Switching Power Supply mode
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	Y Plane
	
Worst Planes of EUT	V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	WLAN 2.4GHz+WLAN 5GHz+DECT
Refer to Sporton Test Report No.: FA272809-01 for Co-location RF Exposure Evaluation.	

2.4 Accessories and Support Equipment

Accessories		
AC Power Cord Cable	In/Out door	In door
	Power Cord	1.8meter, Non-Shielded cable, w/o ferrite core
RJ45 Cable	In/Out door	In door
	Cable	2.05meter, Non-Shielded cable, w/o ferrite core

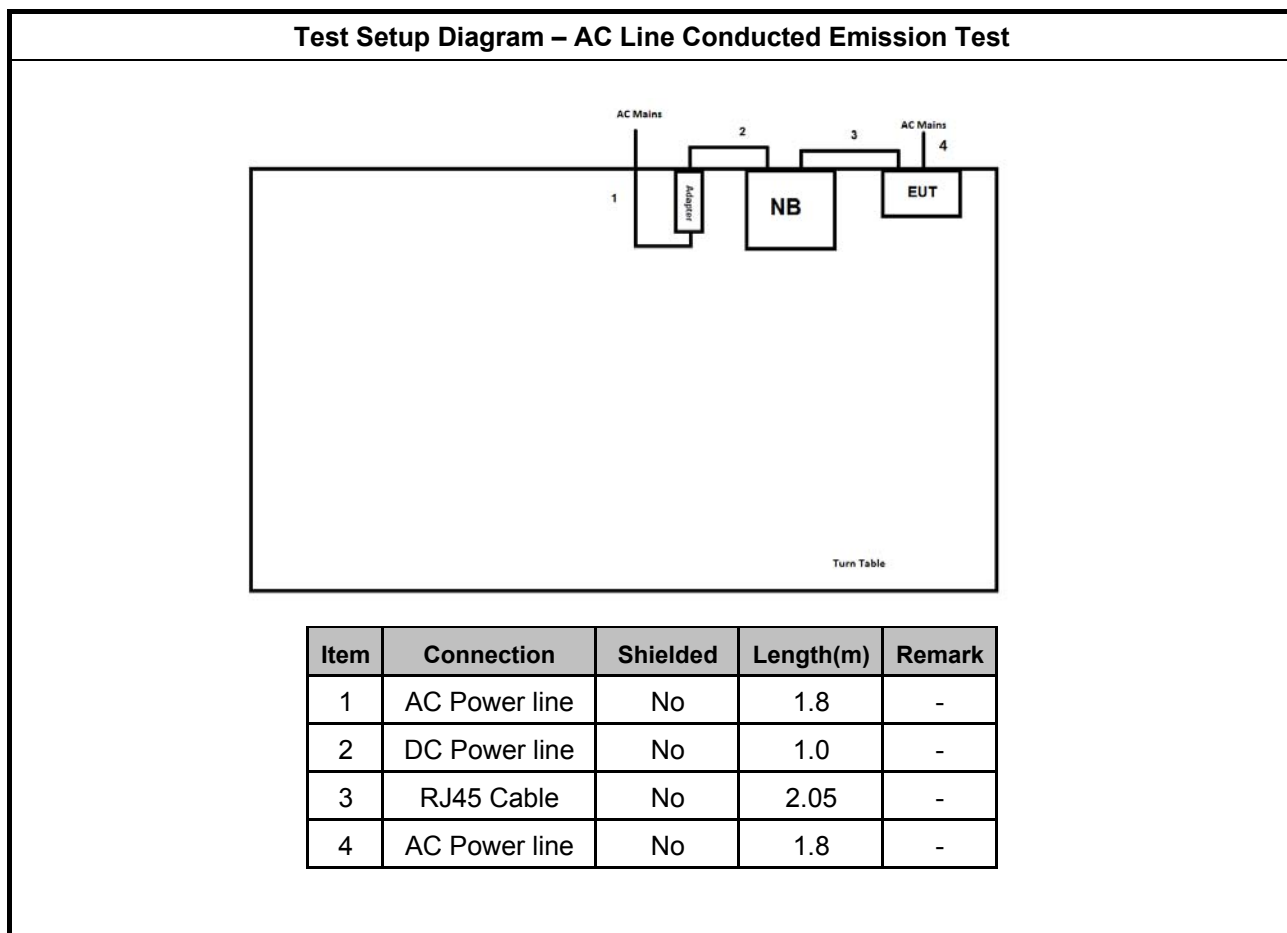
Reminder: Regarding to more detail and other information, please refer to user manual.

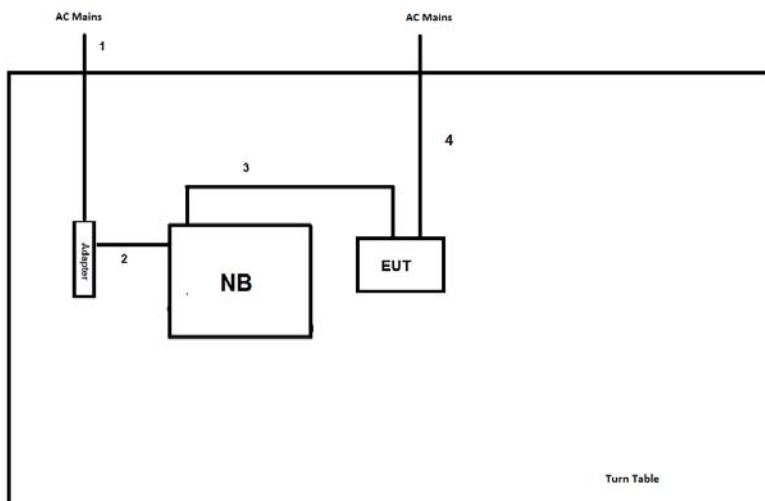
Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5540	N/A
2	AC adapter for NB	DELL	LA90PS0-00	N/A

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

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5540	N/A
2	Adapter for NB	DELL	FA90PSO-00	N/A

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8	-
2	DC Power line	No	1.0	-
3	RJ45 Cable	No	2.05	-
4	AC Power line	No	1.8	-

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.

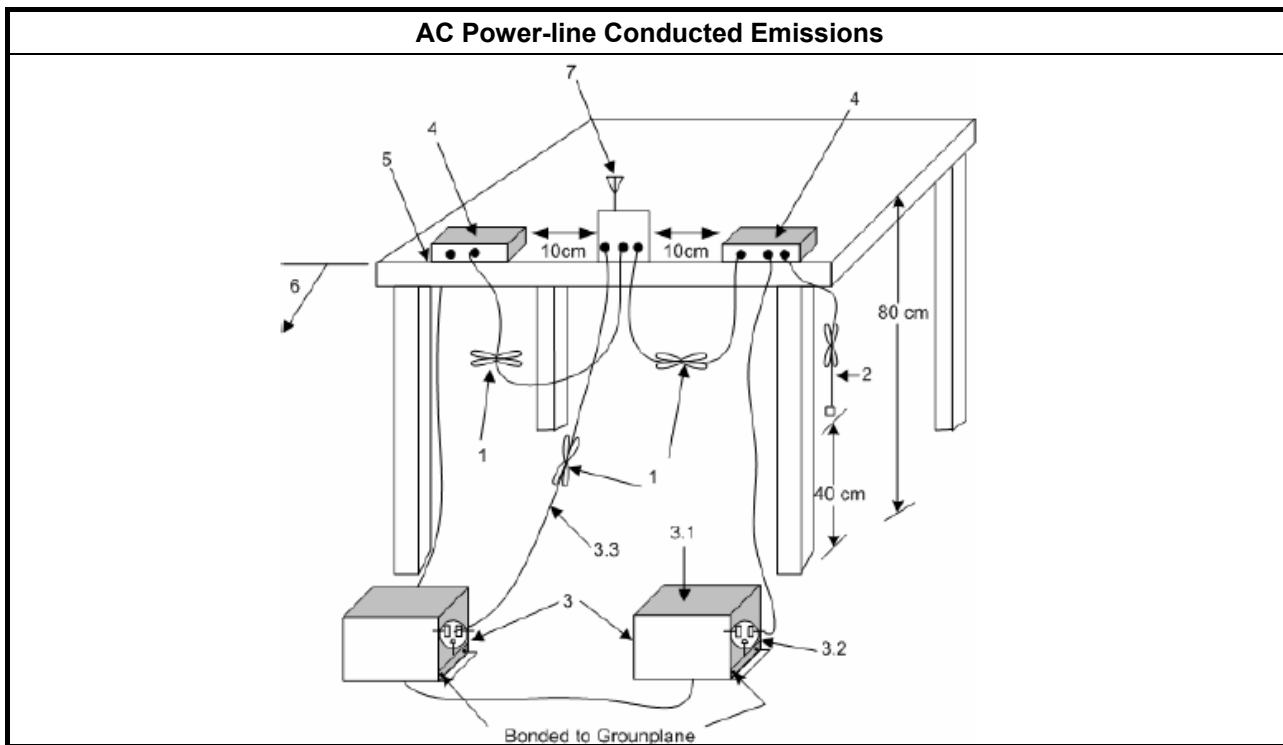
3.1.2 Measuring Instruments

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

Refer as Appendix A

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, 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.

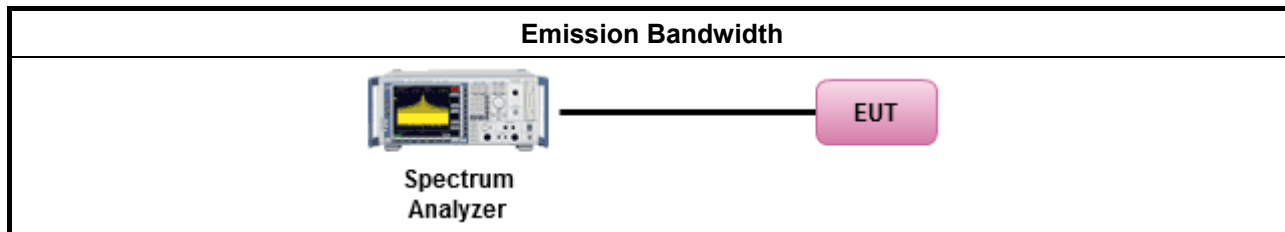
3.2.2 Measuring Instruments

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 B

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 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.	

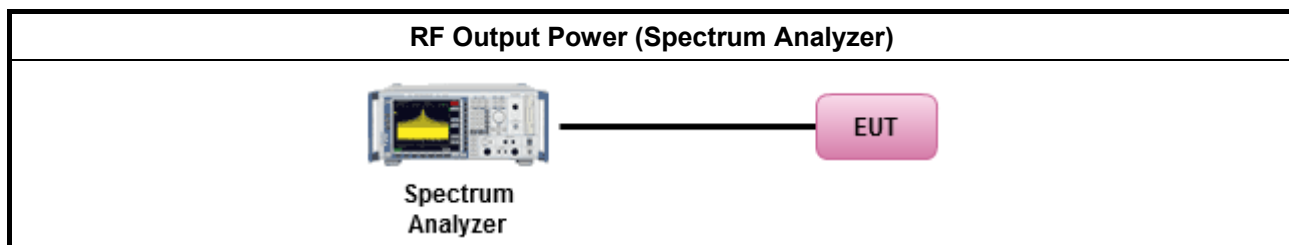
3.3.2 Measuring Instruments

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: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 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.	

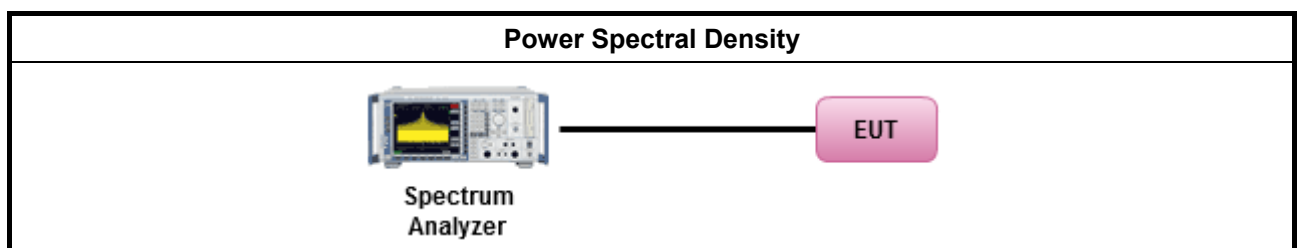
3.4.2 Measuring Instruments

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 D

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).	

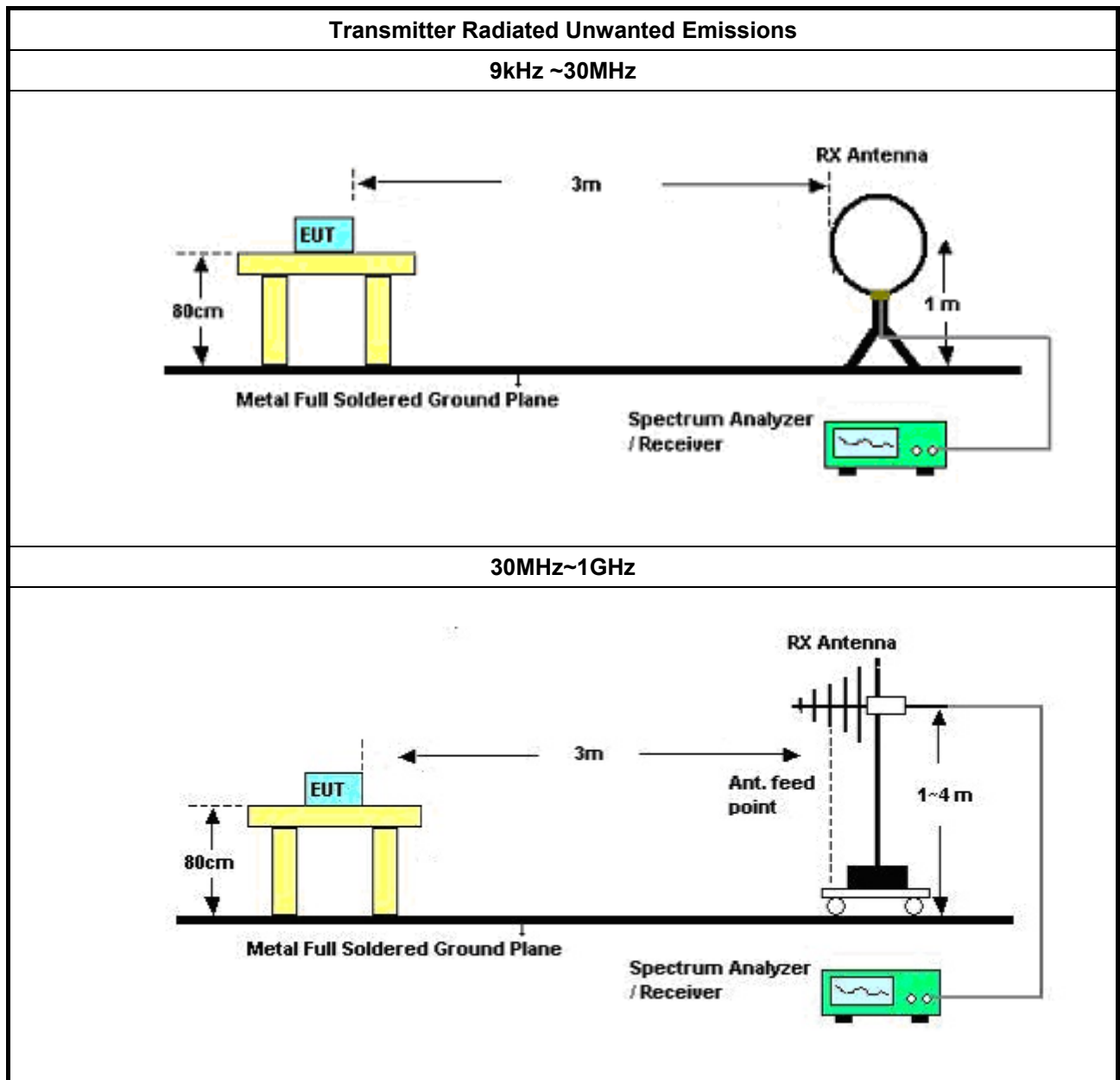
3.5.2 Measuring Instruments

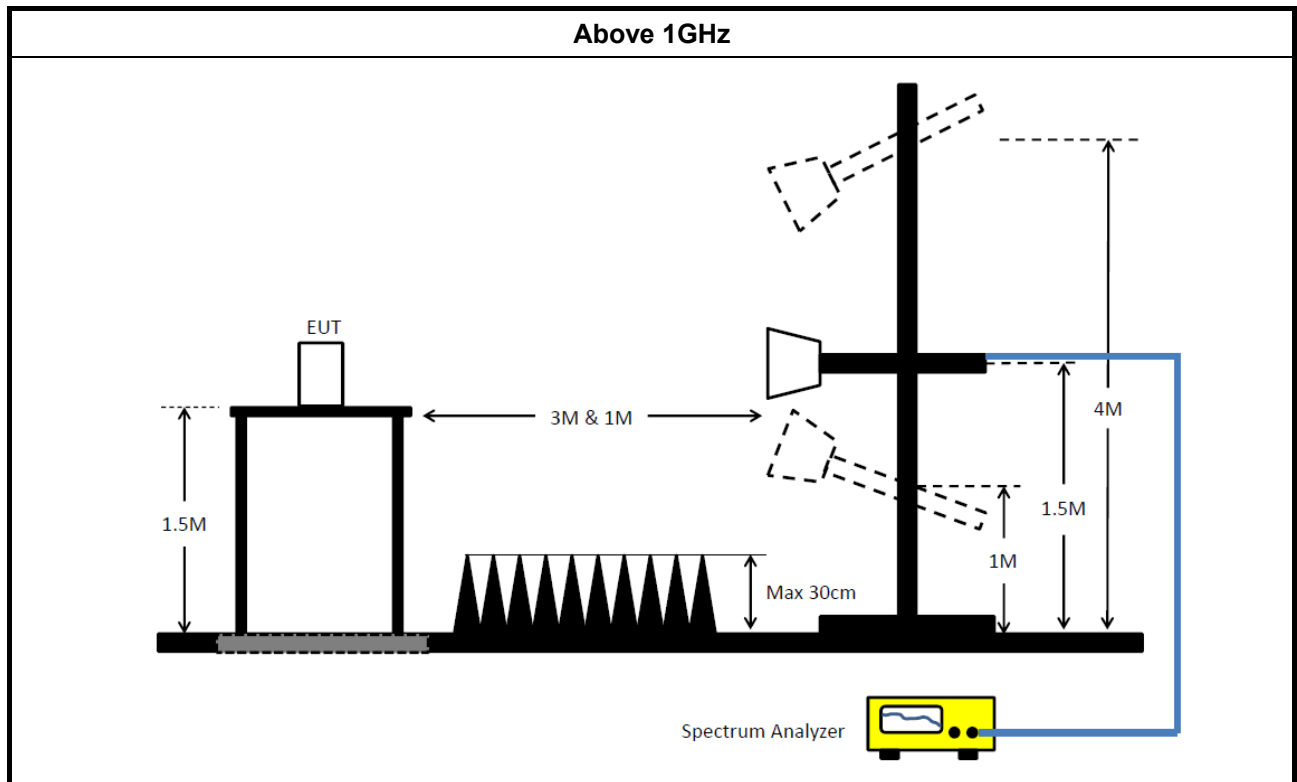
Refer a test equipment and calibration data table in this test report.

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 E

3.6 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR	102051	9KHz ~ 3.6GHz	03/May/2018	02/May/2019
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	17/Nov/2017	16/Nov/2018
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2018	11/Oct/2019

NCR : Non-Calibration Require
Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	29/Dec/2017	28/Dec/2018
Signal Generator	Anritsu	MG3694C	163401	10MHz~40GHz	15/Jan/2018	14/Jan/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~1G	11/Jan/2018	10/Jan/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	1G~18G	11/Jan/2018	10/Jan/2019
Cable 0.5m	HUBER	MY10715/4	RF Cable - 06	30MHz~1G	11/Jan/2018	10/Jan/2019

Instrument for Radiated Test

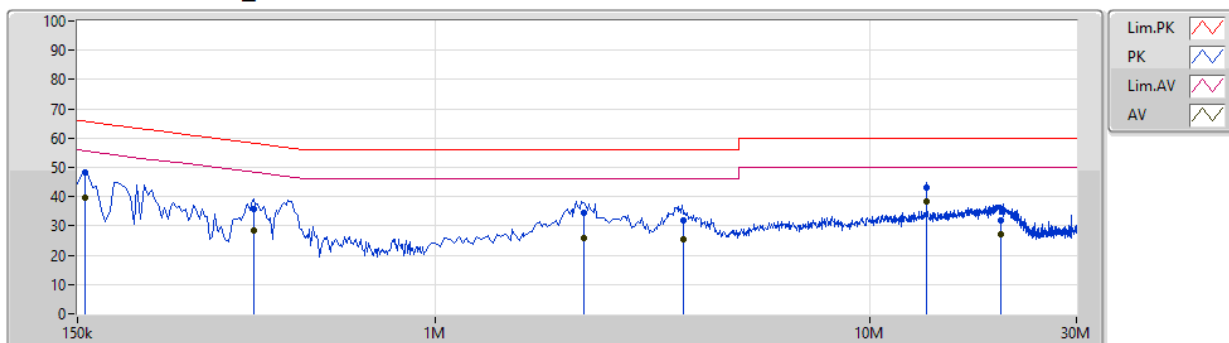
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	23/Apr/2018	22/Apr/2019
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	14/Jun/2018	13/Jun/2019
Microwave Preamplifier	Agilent	8449B	3008A02096	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	02/Oct/2018	03/Oct/2019
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	1/Feb/2018	31/Jan/2019
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz ~ 40GHz	14/Mar/2018	13/Mar/2019

AC Power-line Conducted Emissions Result

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

AC Conduction_Mode 1

30/10/2018



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.419k	48.39	65.66	-17.27	19.65	Neutral	-	28.74	9.62	0.03	10.00			
AV	156.419k	39.87	55.66	-15.79	19.65	Neutral	-	20.22	9.62	0.03	10.00			
QP	382.15k	35.63	58.24	-22.61	19.70	Neutral	-	15.93	9.61	0.09	10.00			
AV	382.15k	28.43	48.24	-19.81	19.70	Neutral	-	8.73	9.61	0.09	10.00			
QP	2.198M	34.29	56.00	-21.71	19.63	Neutral	-	14.66	9.62	0.01	10.00			
AV	2.198M	25.81	46.00	-20.19	19.63	Neutral	-	6.18	9.62	0.01	10.00			
QP	3.733M	32.07	56.00	-23.93	19.71	Neutral	-	12.36	9.63	0.08	10.00			
AV	3.733M	25.52	46.00	-20.48	19.71	Neutral	-	5.81	9.63	0.08	10.00			
QP	13.561M	43.31	60.00	-16.69	19.69	Neutral	-	23.62	9.64	0.05	10.00			
AV	13.561M	38.34	50.00	-11.66	19.69	Neutral	-	18.65	9.64	0.05	10.00			
QP	20.139M	32.07	60.00	-27.93	19.81	Neutral	-	12.26	9.62	0.19	10.00			
AV	20.139M	27.04	50.00	-22.96	19.81	Neutral	-	7.23	9.62	0.19	10.00			

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

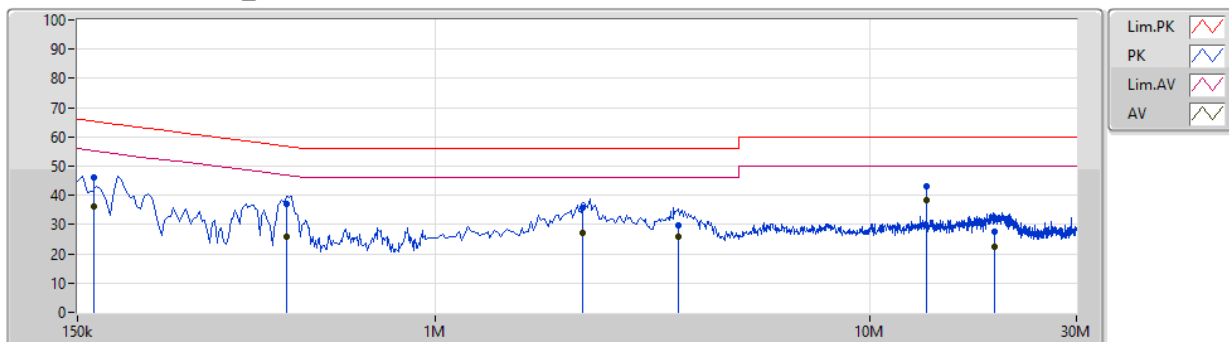
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result

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

AC Conduction_Mode 1

30/10/2018



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	163.173k	46.20	65.29	-19.09	19.65	Line	-	26.55	9.62	0.03	10.00			
AV	163.173k	36.01	55.29	-19.28	19.65	Line	-	16.36	9.62	0.03	10.00			
QP	455.261k	37.21	56.78	-19.57	19.69	Line	-	17.52	9.61	0.08	10.00			
AV	455.261k	25.85	46.78	-20.93	19.69	Line	-	6.16	9.61	0.08	10.00			
QP	2.182M	35.96	56.00	-20.04	19.63	Line	-	16.33	9.62	0.01	10.00			
AV	2.182M	27.32	46.00	-18.68	19.63	Line	-	7.69	9.62	0.01	10.00			
QP	3.626M	29.73	56.00	-26.27	19.70	Line	-	10.03	9.63	0.07	10.00			
AV	3.626M	25.75	46.00	-20.25	19.70	Line	-	6.05	9.63	0.07	10.00			
QP	13.56M	43.19	60.00	-16.81	19.69	Line	-	23.50	9.64	0.05	10.00			
AV	13.56M	38.41	50.00	-11.59	19.69	Line	"Worst"	18.72	9.64	0.05	10.00			
QP	19.426M	27.47	60.00	-32.53	19.80	Line	-	7.67	9.62	0.18	10.00			
AV	19.426M	22.27	50.00	-27.73	19.80	Line	-	2.47	9.62	0.18	10.00			

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	24.525M	16.515M	16M5D1D	22.275M	16.452M
802.11n HT20_Nss1,(MCS0)_3TX	25.45M	17.682M	17M7D1D	23.225M	17.625M
802.11n HT40_Nss1,(MCS0)_3TX	61.1M	36.345M	36M3D1D	45.6M	36.157M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	16.3M	35.238M	35M2D1D	15.675M	16.618M
802.11n HT20_Nss1,(MCS0)_3TX	17.55M	36.142M	36M1D1D	15.5M	17.725M
802.11n HT40_Nss1,(MCS0)_3TX	36.25M	55.563M	55M6D1D	35.35M	36.394M

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

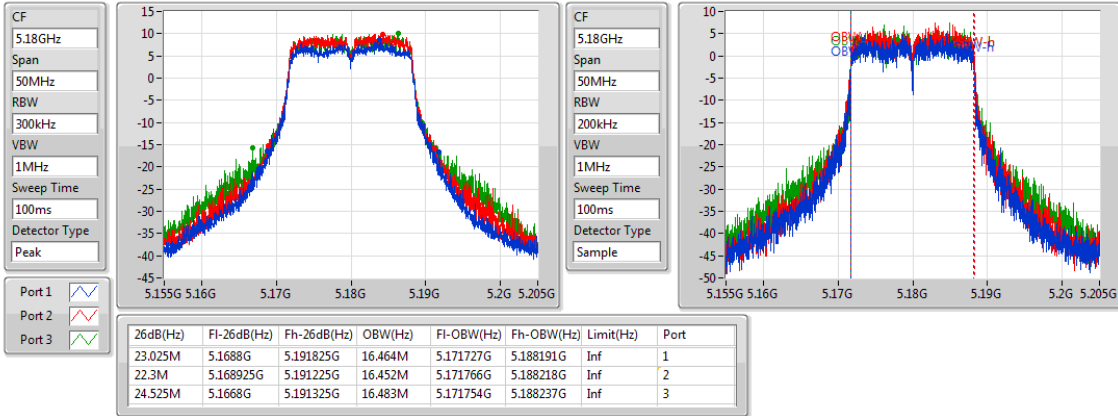
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	23.025M	16.464M	22.3M	16.452M	24.525M	16.483M
5200MHz_TnomVnom	Pass	Inf	22.5M	16.496M	22.6M	16.463M	22.9M	16.515M
5240MHz_TnomVnom	Pass	Inf	22.275M	16.499M	22.4M	16.485M	22.725M	16.487M
5745MHz_TnomVnom	Pass	500k	16.275M	19.516M	16.3M	16.618M	16.3M	19.001M
5785MHz_TnomVnom	Pass	500k	15.875M	30.124M	16M	21.508M	16.025M	26.513M
5825MHz_TnomVnom	Pass	500k	16.3M	35.238M	15.675M	28.395M	16.275M	32.952M
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	23.65M	17.682M	23.975M	17.625M	25.45M	17.668M
5200MHz_TnomVnom	Pass	Inf	23.45M	17.636M	23.4M	17.632M	24.775M	17.682M
5240MHz_TnomVnom	Pass	Inf	23.775M	17.656M	23.225M	17.654M	24.025M	17.667M
5745MHz_TnomVnom	Pass	500k	16.75M	21.556M	17.125M	17.725M	17.5M	19.136M
5785MHz_TnomVnom	Pass	500k	15.5M	31.595M	16.275M	22.217M	17.525M	28.187M
5825MHz_TnomVnom	Pass	500k	17.55M	36.142M	16.875M	29.116M	16.575M	34.436M
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	Inf	47.2M	36.157M	46.65M	36.277M	45.6M	36.285M
5230MHz_TnomVnom	Pass	Inf	48.75M	36.207M	53.7M	36.278M	61.1M	36.345M
5755MHz_TnomVnom	Pass	500k	35.85M	37.038M	36.05M	36.394M	36.25M	36.477M
5795MHz_TnomVnom	Pass	500k	35.35M	55.563M	36.05M	36.602M	36.25M	43.216M

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

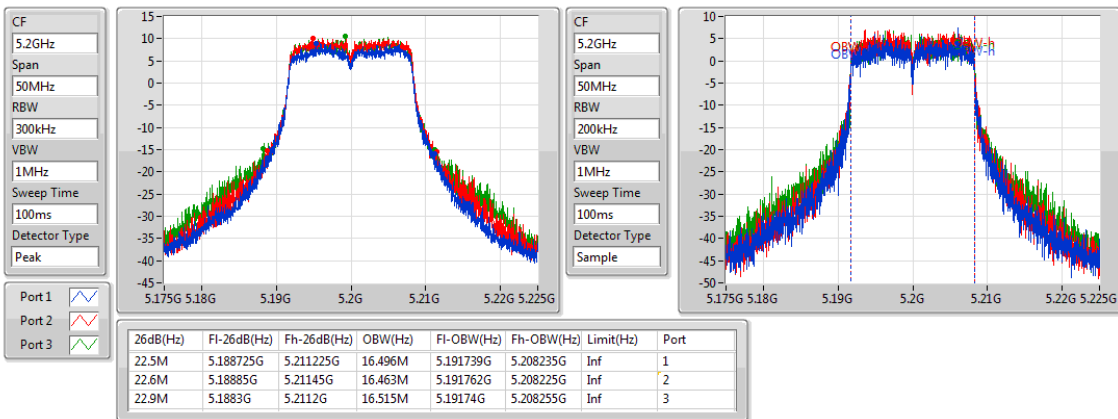
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_3TX
EBW
5180MHz

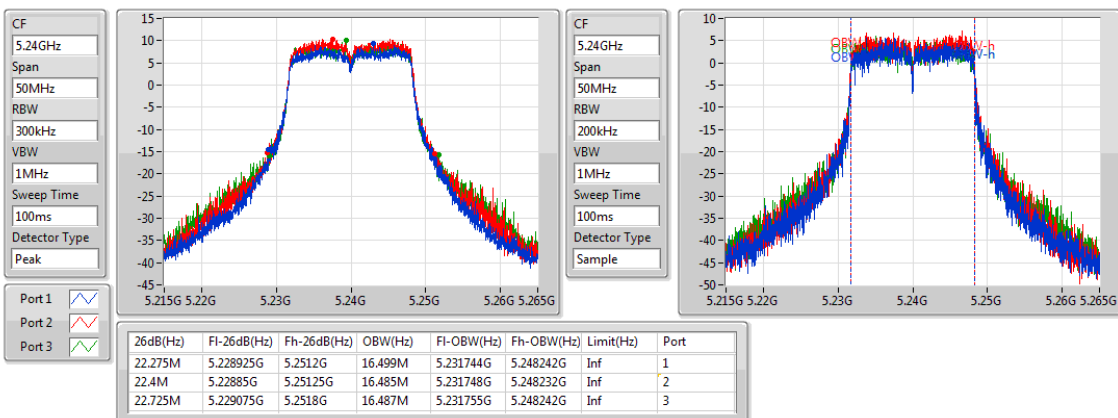
30/11/2018


802.11a_Nss1,(6Mbps)_3TX
EBW
5200MHz

30/11/2018

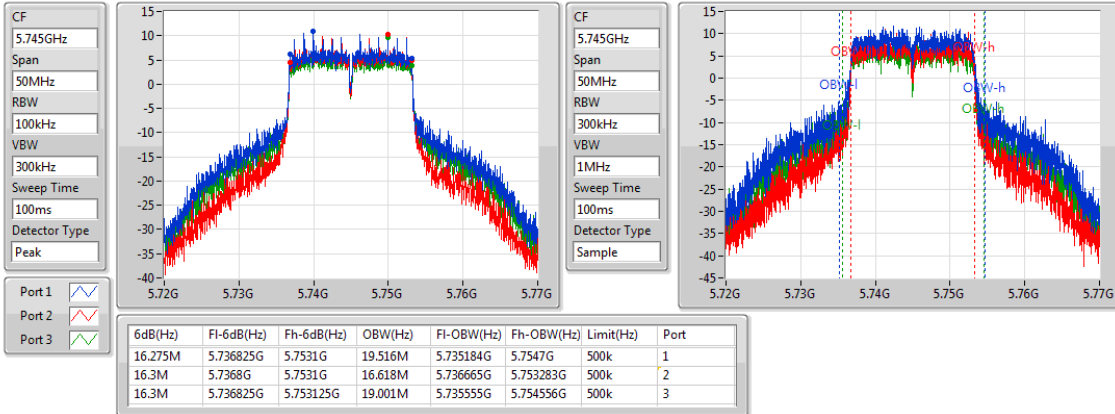

802.11a_Nss1,(6Mbps)_3TX
EBW
5240MHz

30/11/2018

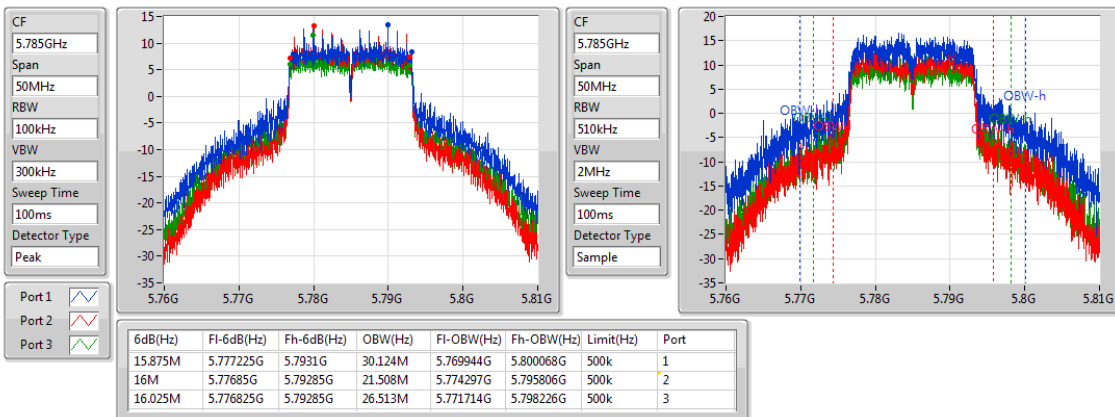


802.11a_Nss1,(6Mbps)_3TX
EBW
5745MHz

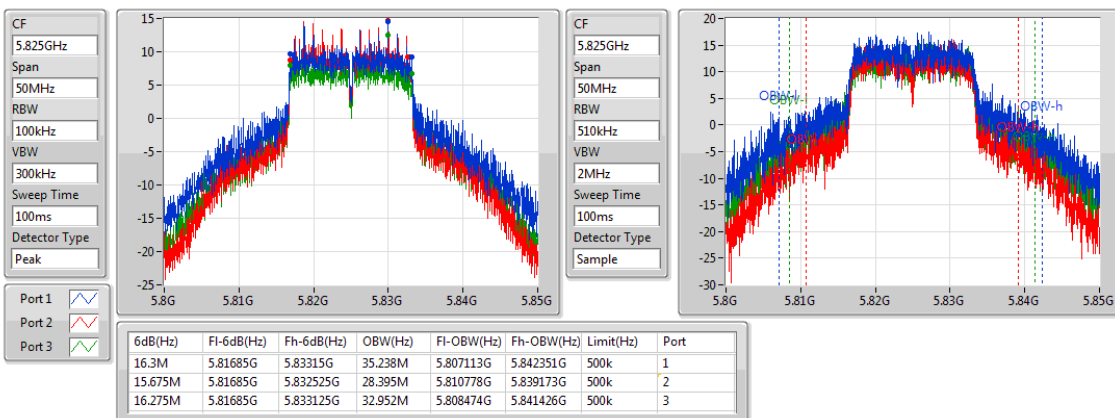
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802.11a_Nss1,(6Mbps)_3TX
EBW
5785MHz

30/11/2018

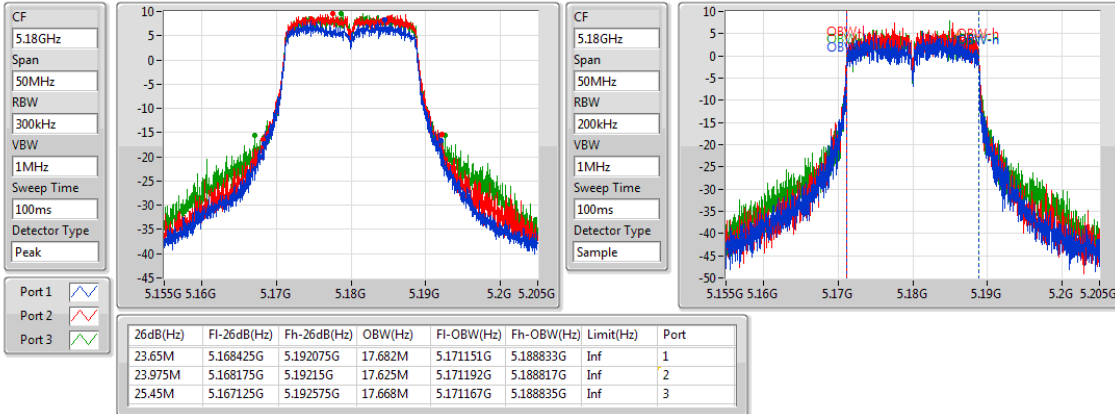

802.11a_Nss1,(6Mbps)_3TX
EBW
5825MHz

30/11/2018

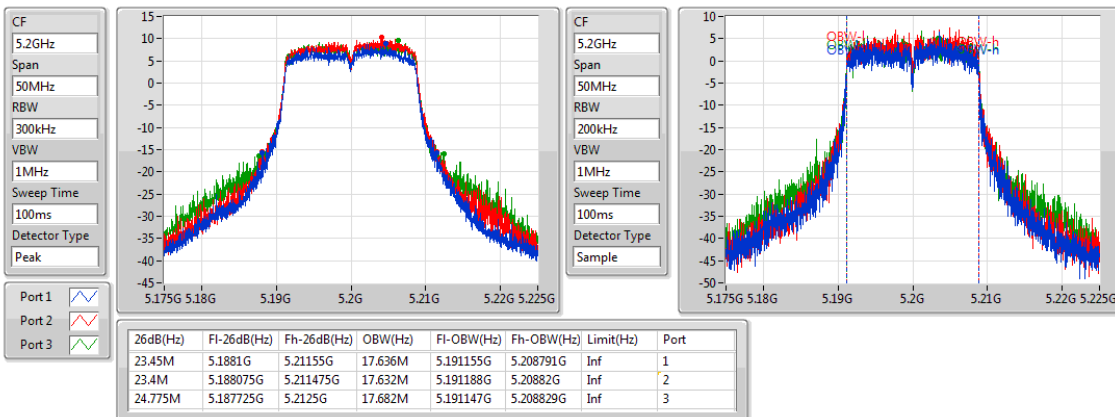


802.11n HT20_Nss1,(MCS0)_3TX
EBW
5180MHz

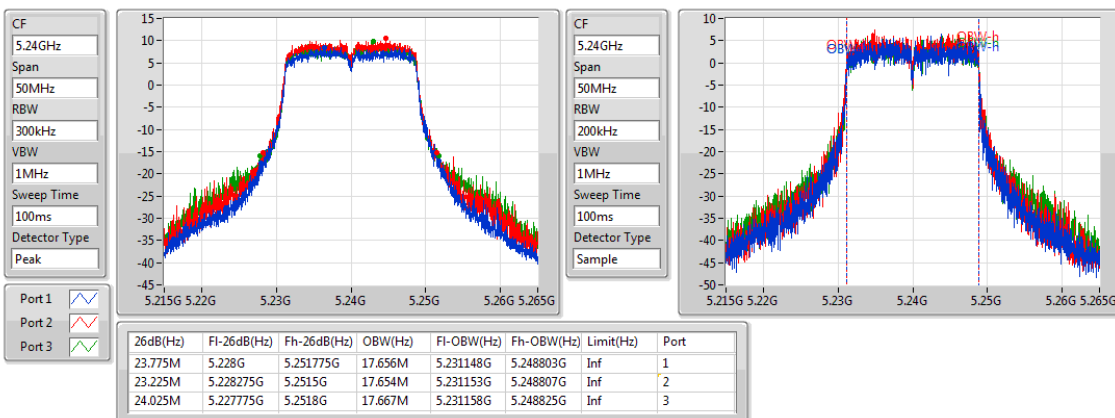
30/11/2018


802.11n HT20_Nss1,(MCS0)_3TX
EBW
5200MHz

30/11/2018

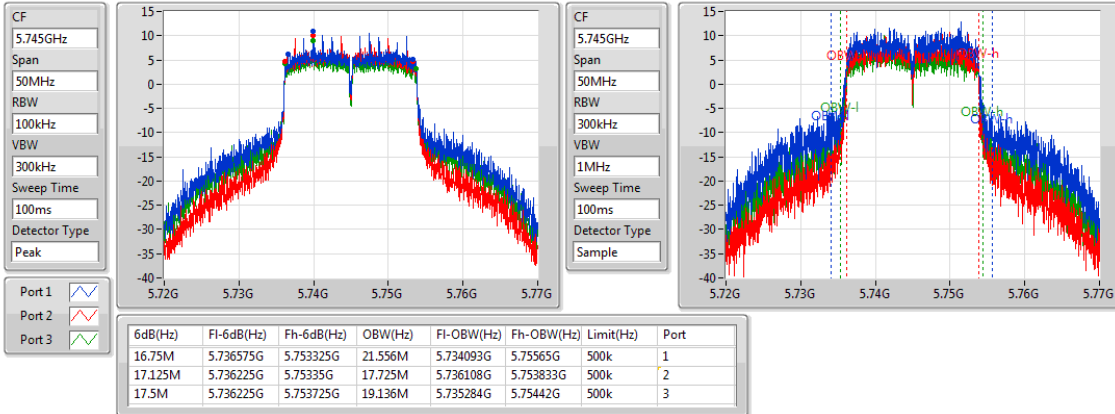

802.11n HT20_Nss1,(MCS0)_3TX
EBW
5240MHz

30/11/2018

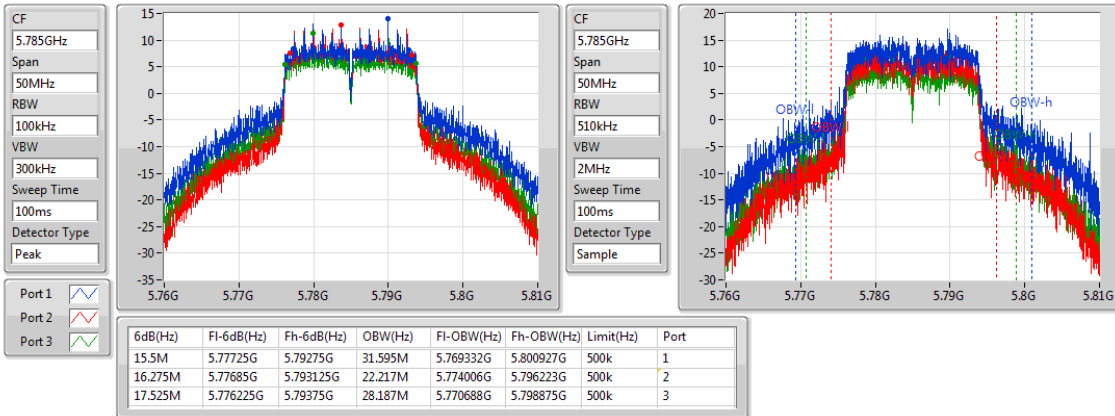


802.11n HT20_Nss1,(MCS0)_3TX
EBW
5745MHz

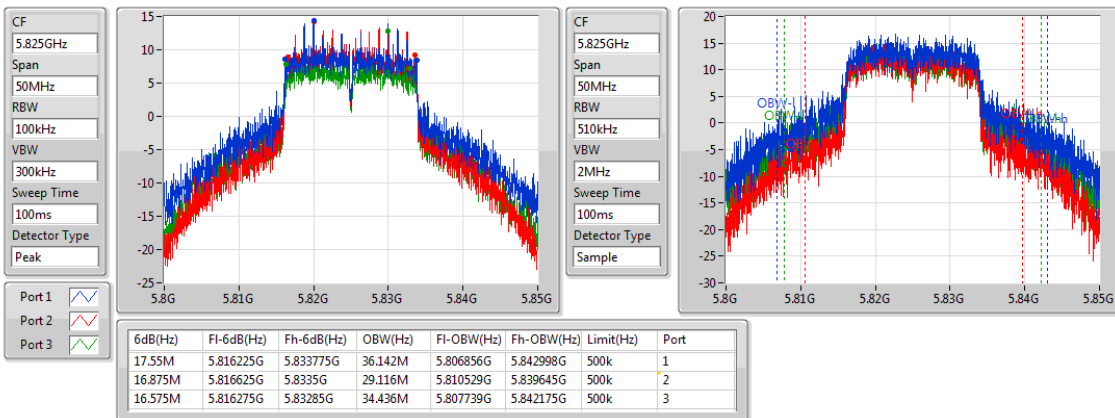
30/11/2018


802.11n HT20_Nss1,(MCS0)_3TX
EBW
5785MHz

30/11/2018

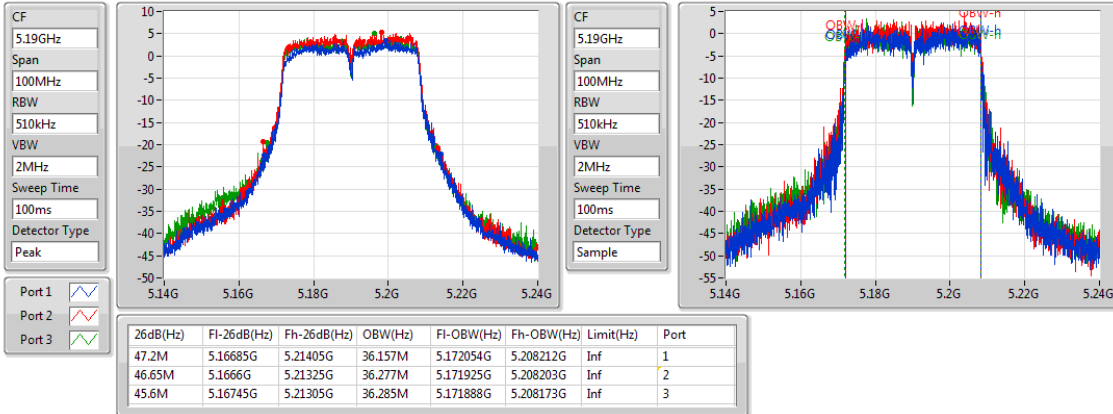

802.11n HT20_Nss1,(MCS0)_3TX
EBW
5825MHz

30/11/2018

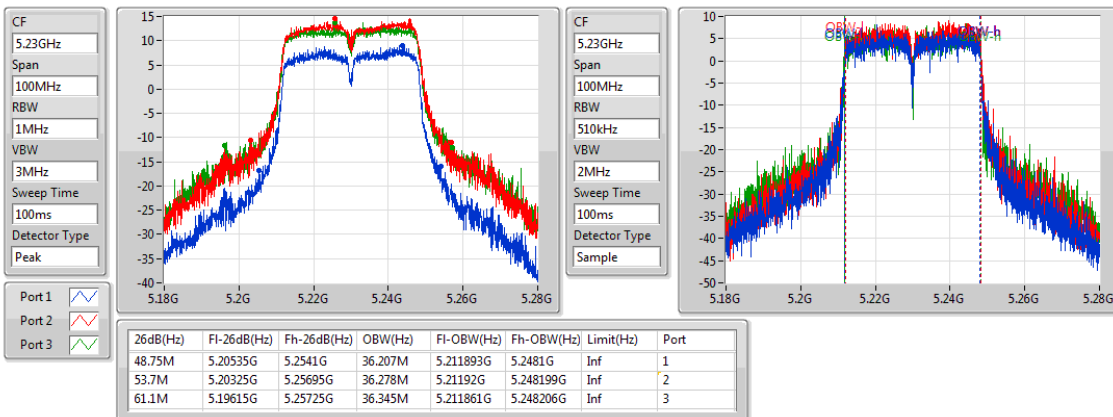


802.11n HT40_Nss1,(MCS0)_3TX
EBW
5190MHz

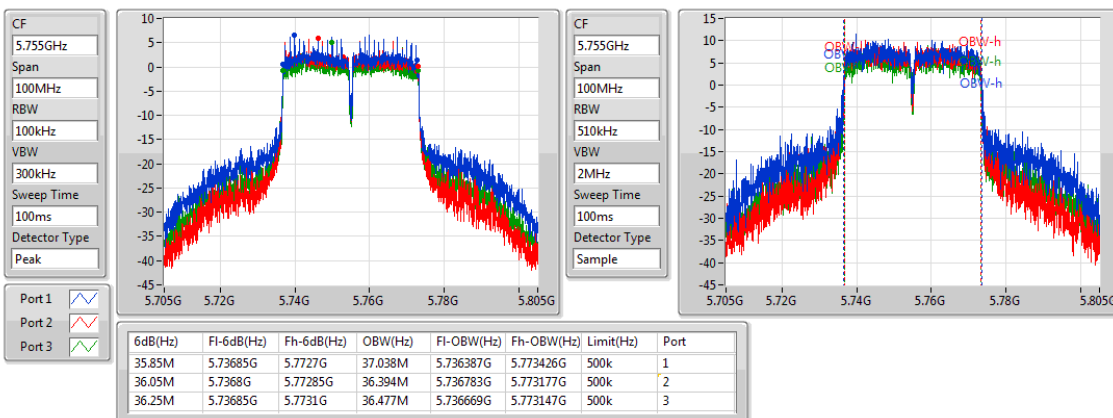
30/11/2018


802.11n HT40_Nss1,(MCS0)_3TX
EBW
5230MHz

30/11/2018


802.11n HT40_Nss1,(MCS0)_3TX
EBW
5755MHz

30/11/2018

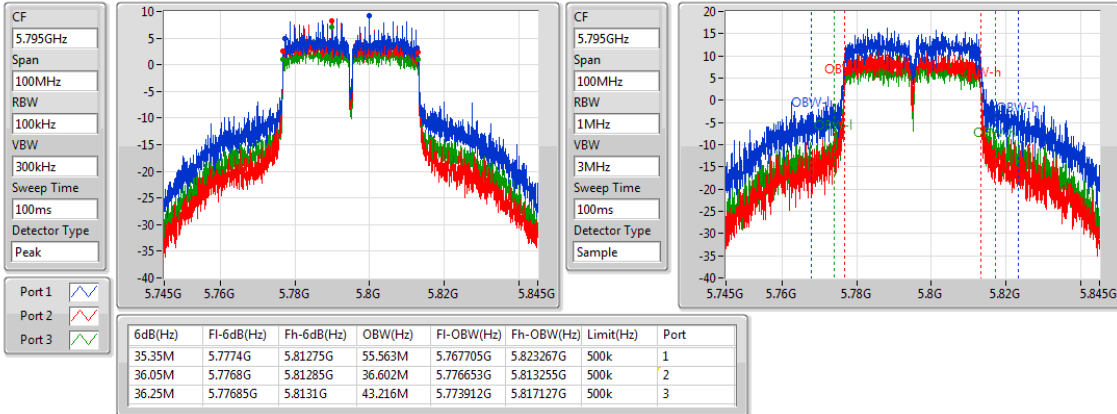


802.11n HT40_Nss1,(MCS0)_3TX

EBW

5795MHz

30/11/2018



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	23.18	0.20797	25.26	0.33574
802.11n HT20_Nss1,(MCS0)_3TX	23.29	0.21330	25.37	0.34435
802.11n HT40_Nss1,(MCS0)_3TX	23.96	0.24889	26.04	0.40179
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	29.20	0.83176	31.28	1.34276
802.11n HT20_Nss1,(MCS0)_3TX	29.18	0.82794	31.26	1.33660
802.11n HT40_Nss1,(MCS0)_3TX	27.37	0.54576	29.45	0.88105

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	2.08	17.06	18.85	18.54	22.99	24.00	25.07	30.00
5200MHz_TnomVnom	Pass	2.08	17.51	18.99	18.59	23.18	24.00	25.26	30.00
5240MHz_TnomVnom	Pass	2.08	17.48	19.02	18.14	23.03	24.00	25.11	30.00
5745MHz_TnomVnom	Pass	2.08	22.12	22.10	20.98	26.54	30.00	28.62	36.00
5785MHz_TnomVnom	Pass	2.08	24.19	24.22	22.50	28.48	30.00	30.56	36.00
5825MHz_TnomVnom	Pass	2.08	24.65	25.28	23.06	29.20	30.00	31.28	36.00
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	2.08	17.13	18.84	18.61	23.03	24.00	25.11	30.00
5200MHz_TnomVnom	Pass	2.08	17.35	18.88	18.42	23.03	24.00	25.11	30.00
5240MHz_TnomVnom	Pass	2.08	17.76	19.26	18.42	23.29	24.00	25.37	30.00
5745MHz_TnomVnom	Pass	2.08	22.03	22.00	20.95	26.46	30.00	28.54	36.00
5785MHz_TnomVnom	Pass	2.08	24.03	24.23	22.53	28.43	30.00	30.51	36.00
5825MHz_TnomVnom	Pass	2.08	24.63	25.28	23.03	29.18	30.00	31.26	36.00
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	2.08	12.48	14.42	13.63	18.35	24.00	20.43	30.00
5230MHz_TnomVnom	Pass	2.08	18.45	20.01	18.97	23.96	24.00	26.04	30.00
5755MHz_TnomVnom	Pass	2.08	21.35	20.93	19.79	25.51	30.00	27.59	36.00
5795MHz_TnomVnom	Pass	2.08	23.39	22.73	21.48	27.37	30.00	29.45	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)_3TX	9.91	16.76
802.11n HT20_Nss1,(MCS0)_3TX	9.77	16.62
802.11n HT40_Nss1,(MCS0)_3TX	7.79	14.64
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_3TX	13.49	20.34
802.11n HT20_Nss1,(MCS0)_3TX	13.15	20.00
802.11n HT40_Nss1,(MCS0)_3TX	9.22	16.07

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)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	6.85	4.28	5.92	5.22	9.87	10.15	16.72	17.00
5200MHz_TnomVnom	Pass	6.85	4.50	5.78	5.30	9.91	10.15	16.76	17.00
5240MHz_TnomVnom	Pass	6.85	4.33	5.69	4.73	9.63	10.15	16.48	17.00
5745MHz_TnomVnom	Pass	6.85	7.22	7.59	6.36	11.65	29.15	18.50	36.00
5785MHz_TnomVnom	Pass	6.85	8.63	8.69	7.52	12.89	29.15	19.74	36.00
5825MHz_TnomVnom	Pass	6.85	8.91	9.73	7.42	13.49	29.15	20.34	36.00
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	6.85	3.81	5.38	4.90	9.42	10.15	16.27	17.00
5200MHz_TnomVnom	Pass	6.85	4.15	5.60	4.87	9.60	10.15	16.45	17.00
5240MHz_TnomVnom	Pass	6.85	4.47	5.81	4.95	9.77	10.15	16.62	17.00
5745MHz_TnomVnom	Pass	6.85	7.13	7.02	5.83	11.29	29.15	18.14	36.00
5785MHz_TnomVnom	Pass	6.85	8.39	8.67	7.45	12.91	29.15	19.76	36.00
5825MHz_TnomVnom	Pass	6.85	8.58	9.25	7.29	13.15	29.15	20.00	36.00
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	6.85	-3.55	-1.89	-2.65	2.04	10.15	8.89	17.00
5230MHz_TnomVnom	Pass	6.85	2.54	3.97	2.76	7.79	10.15	14.64	17.00
5755MHz_TnomVnom	Pass	6.85	4.05	4.18	3.24	8.52	29.15	15.37	36.00
5795MHz_TnomVnom	Pass	6.85	4.93	4.91	3.87	9.22	29.15	16.07	36.00

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

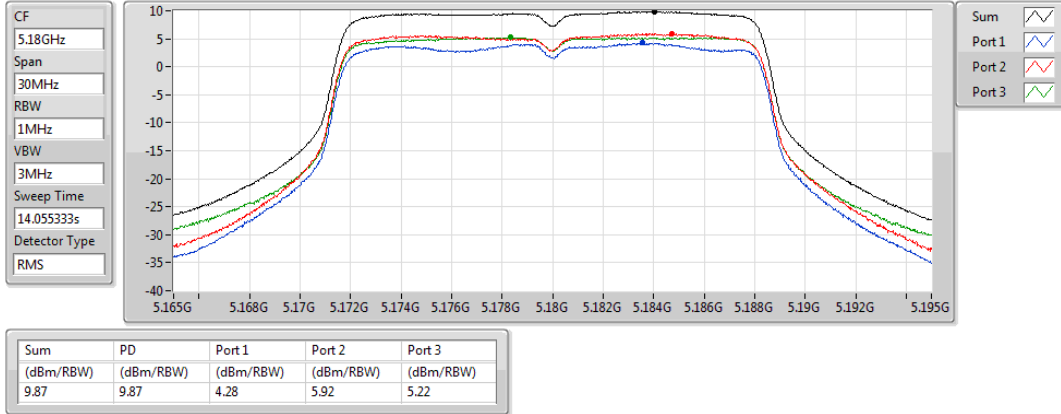
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11a_Nss1,(6Mbps)_3TX

PSD

5180MHz

30/11/2018

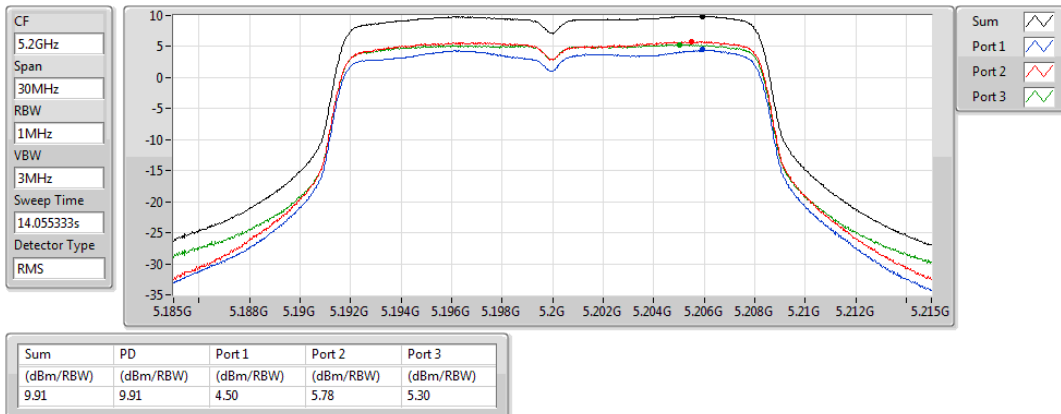


802.11a_Nss1,(6Mbps)_3TX

PSD

5200MHz

30/11/2018

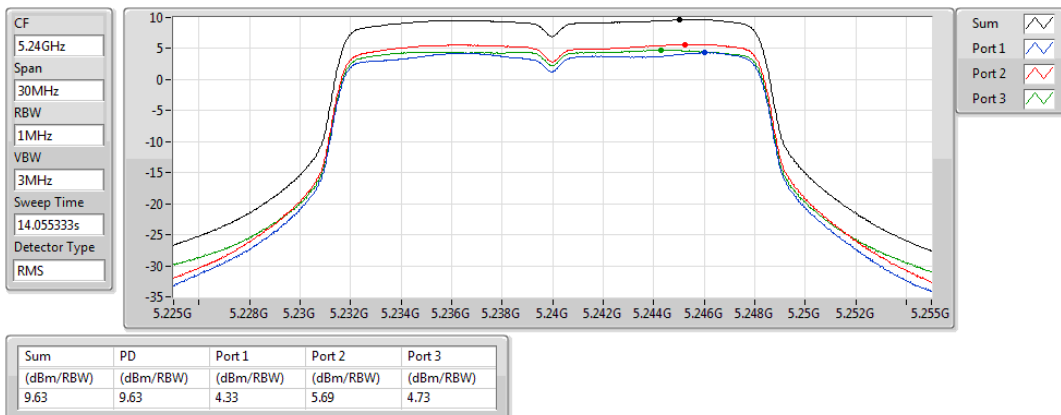


802.11a_Nss1,(6Mbps)_3TX

PSD

5240MHz

30/11/2018

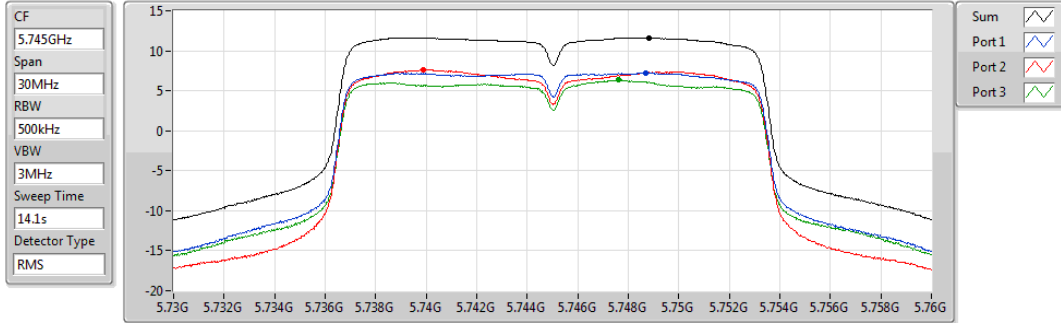


802.11a_Nss1,(6Mbps)_3TX

PSD

5745MHz

30/11/2018



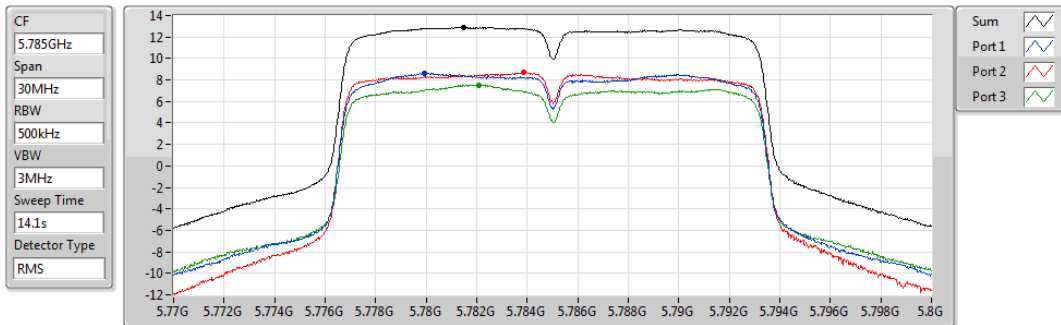
Sum	PD	Port 1	Port 2	Port 3
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
11.65	11.65	7.22	7.59	6.36

802.11a_Nss1,(6Mbps)_3TX

PSD

5785MHz

30/11/2018



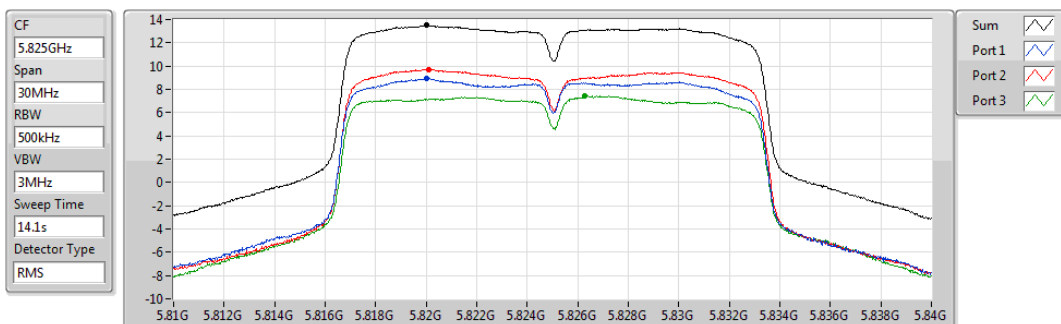
Sum	PD	Port 1	Port 2	Port 3
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
12.89	12.89	8.63	8.69	7.52

802.11a_Nss1,(6Mbps)_3TX

PSD

5825MHz

30/11/2018



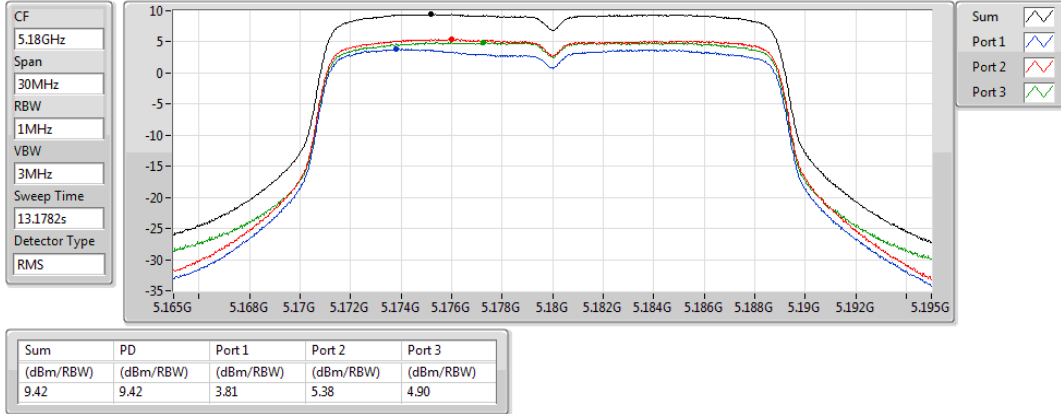
Sum	PD	Port 1	Port 2	Port 3
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
13.49	13.49	8.91	9.73	7.42

802.11n HT20_Nss1,(MCS0)_3TX

PSD

5180MHz

30/11/2018

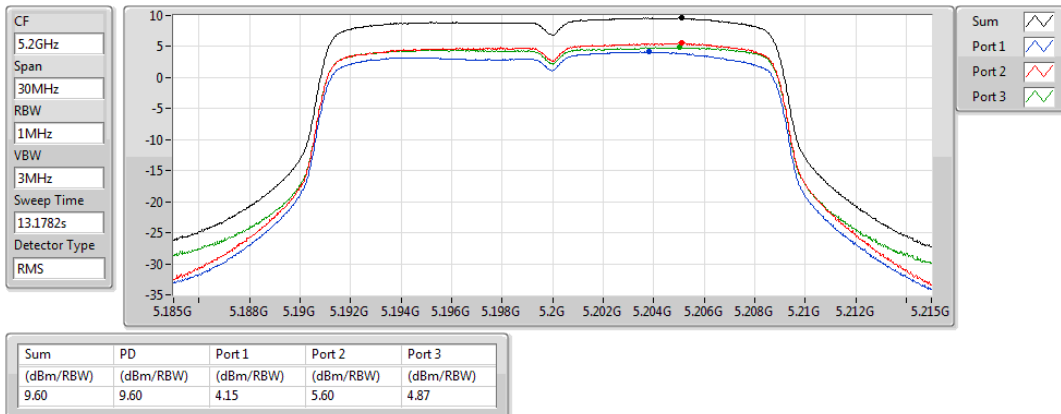


802.11n HT20_Nss1,(MCS0)_3TX

PSD

5200MHz

30/11/2018

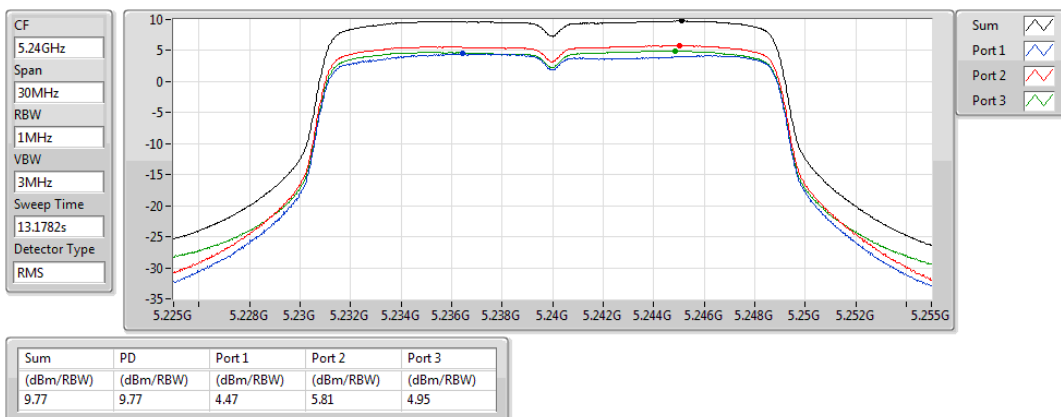


802.11n HT20_Nss1,(MCS0)_3TX

PSD

5240MHz

30/11/2018

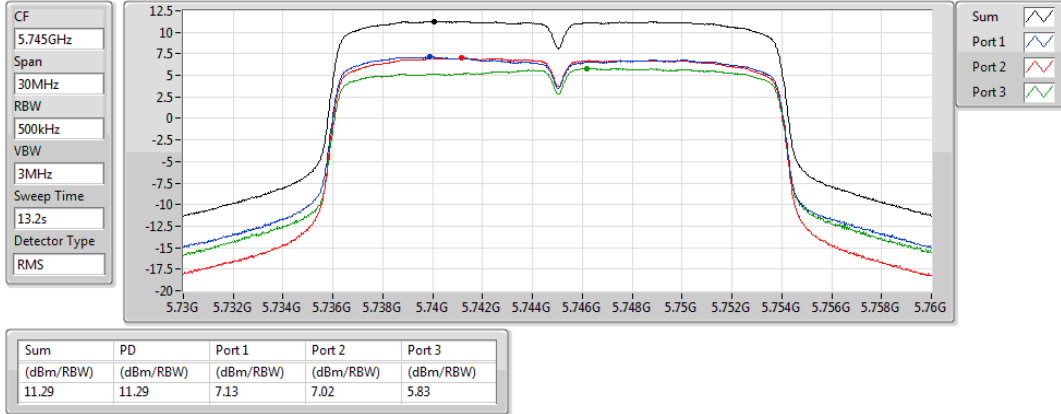


802.11n HT20_Nss1,(MCS0)_3TX

PSD

5745MHz

30/11/2018

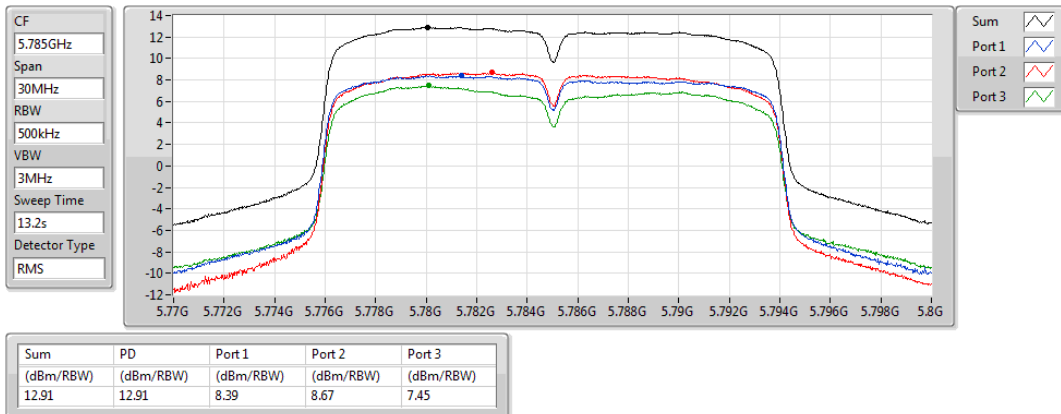


802.11n HT20_Nss1,(MCS0)_3TX

PSD

5785MHz

30/11/2018

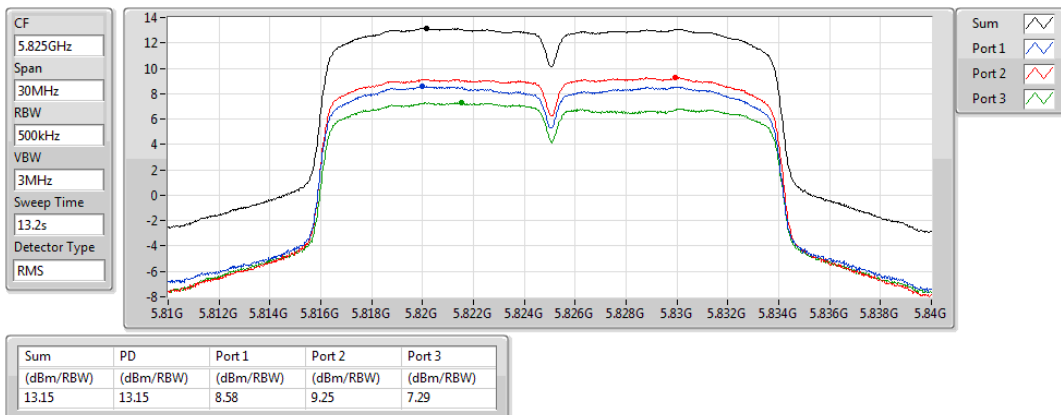


802.11n HT20_Nss1,(MCS0)_3TX

PSD

5825MHz

30/11/2018

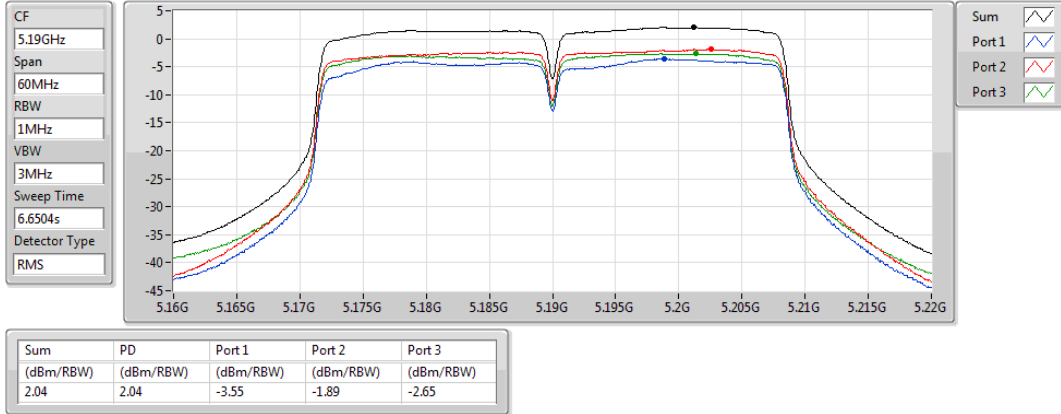


802.11n HT40_Nss1,(MCS0)_3TX

PSD

5190MHz

30/11/2018

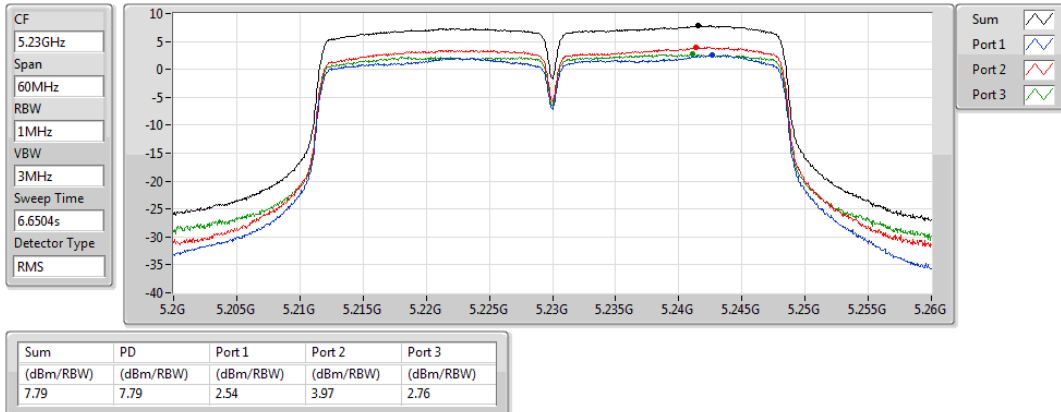


802.11n HT40_Nss1,(MCS0)_3TX

PSD

5230MHz

30/11/2018

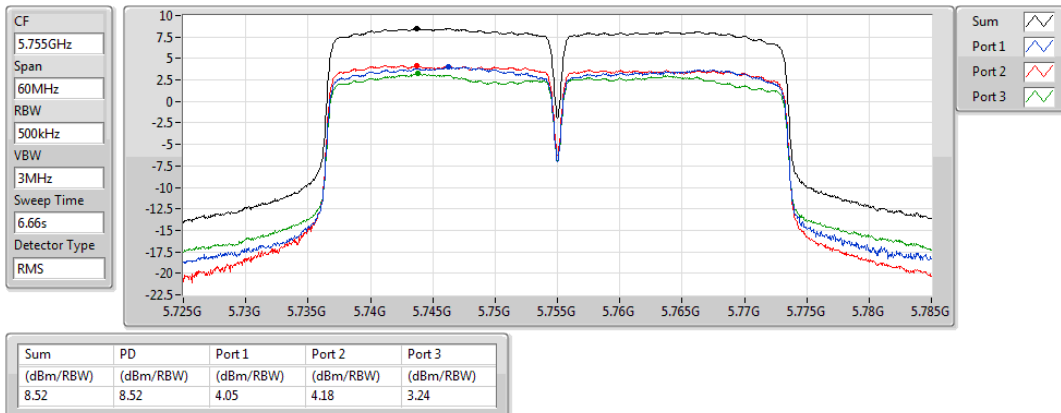


802.11n HT40_Nss1,(MCS0)_3TX

PSD

5755MHz

30/11/2018



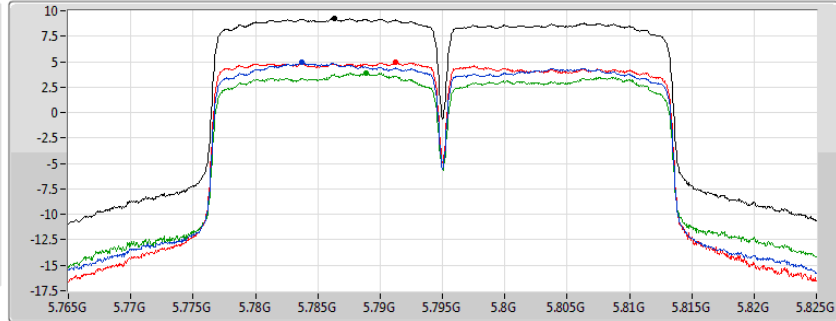
802.11n HT40_Nss1,(MCS0)_3TX

PSD

5795MHz

30/11/2018

CF
5.795GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
6.66s
Detector Type
RMS



Sum
Port 1
Port 2
Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.22	9.22	4.93	4.91	3.87

**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)_3TX	Pass	QP	39.7M	39.80	40.00	-0.20	-18.19	3	Vertical	360	1.00	-

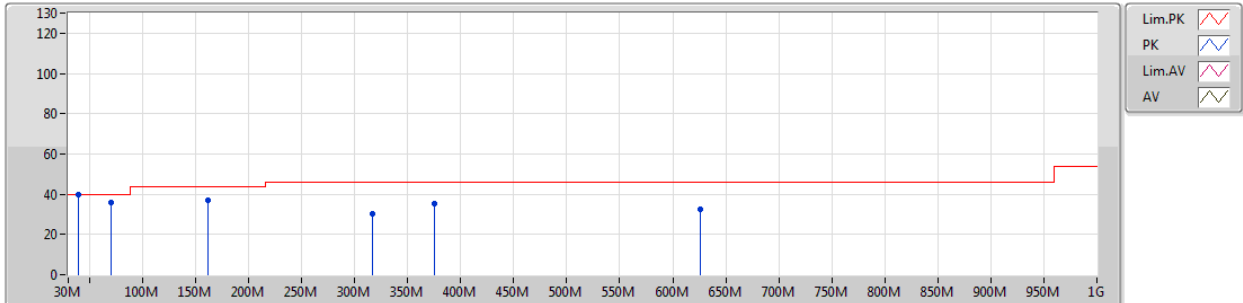
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	QP	39.7M	39.80	40.00	-0.20	-18.19	3	Vertical	360	1.00	-
5755MHz	Pass	QP	70.74M	36.13	40.00	-3.87	-25.07	3	Vertical	360	1.00	-
5755MHz	Pass	PK	161.92M	36.94	43.50	-6.56	-20.11	3	Vertical	360	1.00	-
5755MHz	Pass	PK	317.12M	30.10	46.00	-15.90	-16.44	3	Vertical	360	1.00	-
5755MHz	Pass	PK	375.32M	35.23	46.00	-10.77	-14.85	3	Vertical	360	1.00	-
5755MHz	Pass	PK	625.58M	32.42	46.00	-13.58	-10.19	3	Vertical	360	1.00	-
5755MHz	Pass	PK	74.62M	33.49	40.00	-6.51	-24.77	3	Horizontal	0	3.00	-
5755MHz	Pass	PK	103.72M	39.80	43.50	-3.70	-20.68	3	Horizontal	0	3.00	-
5755MHz	Pass	PK	165.8M	35.44	43.50	-8.06	-20.40	3	Horizontal	0	3.00	-
5755MHz	Pass	PK	375.32M	38.70	46.00	-7.30	-14.85	3	Horizontal	0	3.00	-
5755MHz	Pass	PK	499.48M	37.09	46.00	-8.91	-12.10	3	Horizontal	0	3.00	-
5755MHz	Pass	PK	625.58M	39.73	46.00	-6.27	-10.19	3	Horizontal	0	3.00	-

802.11n HT40_Nss1,(MCS0)_3TX

5755MHz_Switching Power Supply

02/11/2018

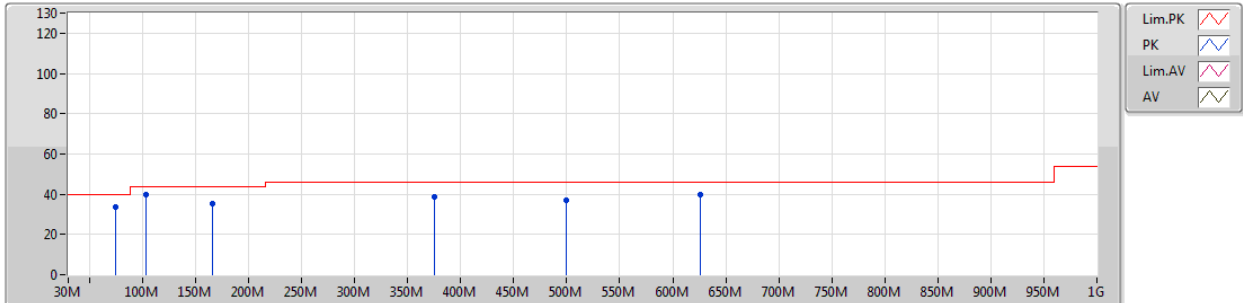


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
QP	39.7M	39.80	40.00	-0.20	-18.19	3	Vertical	360	1.00	-
QP	70.74M	36.13	40.00	-3.87	-25.07	3	Vertical	360	1.00	-
PK	161.92M	36.94	43.50	-6.56	-20.11	3	Vertical	360	1.00	-
PK	317.12M	30.10	46.00	-15.90	-16.44	3	Vertical	360	1.00	-
PK	375.32M	35.23	46.00	-10.77	-14.85	3	Vertical	360	1.00	-
PK	625.58M	32.42	46.00	-13.58	-10.19	3	Vertical	360	1.00	-

802.11n HT40_Nss1,(MCS0)_3TX

5755MHz_Switching Power Supply

02/11/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	74.62M	33.49	40.00	-6.51	-24.77	3	Horizontal	0	3.00	-
PK	103.72M	39.80	43.50	-3.70	-20.68	3	Horizontal	0	3.00	-
PK	165.8M	35.44	43.50	-8.06	-20.40	3	Horizontal	0	3.00	-
PK	375.32M	38.70	46.00	-7.30	-14.85	3	Horizontal	0	3.00	-
PK	499.48M	37.09	46.00	-8.91	-12.10	3	Horizontal	0	3.00	-
PK	625.58M	39.73	46.00	-6.27	-10.19	3	Horizontal	0	3.00	-

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)_3TX	Pass	AV	5.1492G	53.62	54.00	-0.38	2.74	3	Horizontal	343	1.23	-
802.11n HT20_Nss1,(MCS0)_3TX	Pass	AV	5.36G	53.75	54.00	-0.25	2.98	3	Horizontal	354	1.02	-
802.11n HT40_Nss1,(MCS0)_3TX	Pass	AV	5.1476G	53.31	54.00	-0.69	2.74	3	Horizontal	335	1.48	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	Pass	AV	11.49378G	53.79	54.00	-0.21	13.58	3	Vertical	256	2.57	-
802.11n HT20_Nss1,(MCS0)_3TX	Pass	AV	11.4954G	53.63	54.00	-0.37	13.58	3	Vertical	256	2.32	-
802.11n HT40_Nss1,(MCS0)_3TX	Pass	PK	5.641G	67.63	68.20	-0.57	3.43	3	Horizontal	352	2.32	-

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)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.15G	47.22	54.00	-6.78	2.74	3	Vertical	130	1.50	-
5180MHz	Pass	AV	5.1792G	101.16	Inf	-Inf	2.78	3	Vertical	130	1.50	-
5180MHz	Pass	PK	5.1492G	64.17	74.00	-9.83	2.74	3	Vertical	130	1.50	-
5180MHz	Pass	PK	5.1808G	110.85	Inf	-Inf	2.78	3	Vertical	130	1.50	-
5180MHz	Pass	AV	5.15G	51.73	54.00	-2.27	2.74	3	Horizontal	357	1.01	-
5180MHz	Pass	AV	5.186G	106.06	Inf	-Inf	2.78	3	Horizontal	357	1.01	-
5180MHz	Pass	PK	5.1478G	65.57	74.00	-8.43	2.74	3	Horizontal	357	1.01	-
5180MHz	Pass	PK	5.1864G	115.00	Inf	-Inf	2.78	3	Horizontal	357	1.01	-
5180MHz	Pass	AV	10.36564G	41.02	54.00	-12.98	12.64	3	Vertical	254	2.35	-
5180MHz	Pass	PK	10.35724G	54.91	74.00	-19.09	12.63	3	Vertical	254	2.35	-
5180MHz	Pass	AV	10.36636G	41.81	54.00	-12.19	12.64	3	Horizontal	282	1.34	-
5180MHz	Pass	PK	10.35658G	55.20	74.00	-18.80	12.63	3	Horizontal	282	1.34	-
5200MHz	Pass	AV	5.1436G	48.18	54.00	-5.82	2.74	3	Vertical	123	1.70	-
5200MHz	Pass	AV	5.2028G	108.00	Inf	-Inf	2.80	3	Vertical	123	1.70	-
5200MHz	Pass	PK	5.1444G	66.58	74.00	-7.42	2.74	3	Vertical	123	1.70	-
5200MHz	Pass	PK	5.2028G	117.08	Inf	-Inf	2.80	3	Vertical	123	1.70	-
5200MHz	Pass	AV	5.1492G	53.62	54.00	-0.38	2.74	3	Horizontal	343	1.23	-
5200MHz	Pass	AV	5.1984G	111.69	Inf	-Inf	2.80	3	Horizontal	343	1.23	-
5200MHz	Pass	PK	5.1476G	68.20	74.00	-5.80	2.74	3	Horizontal	343	1.23	-
5200MHz	Pass	PK	5.1988G	120.72	Inf	-Inf	2.80	3	Horizontal	343	1.23	-
5200MHz	Pass	AV	10.3964G	43.19	54.00	-10.81	12.71	3	Vertical	264	1.57	-
5200MHz	Pass	PK	10.39658G	56.43	74.00	-17.57	12.72	3	Vertical	264	1.57	-
5200MHz	Pass	AV	10.39724G	43.74	54.00	-10.26	12.72	3	Horizontal	280	1.50	-
5200MHz	Pass	PK	10.39694G	56.57	74.00	-17.43	12.72	3	Horizontal	280	1.50	-
5240MHz	Pass	AV	5.12G	48.32	54.00	-5.68	2.70	3	Vertical	56	2.69	-
5240MHz	Pass	AV	5.2436G	110.21	Inf	-Inf	2.85	3	Vertical	56	2.69	-
5240MHz	Pass	AV	5.354G	47.52	54.00	-6.48	2.97	3	Vertical	56	2.69	-
5240MHz	Pass	PK	5.15G	61.59	74.00	-12.41	2.74	3	Vertical	56	2.69	-
5240MHz	Pass	PK	5.2436G	119.67	Inf	-Inf	2.85	3	Vertical	56	2.69	-
5240MHz	Pass	PK	5.3546G	58.77	74.00	-15.23	2.97	3	Vertical	56	2.69	-
5240MHz	Pass	AV	5.1482G	50.52	54.00	-3.48	2.74	3	Horizontal	356	1.01	-
5240MHz	Pass	AV	5.2382G	113.99	Inf	-Inf	2.84	3	Horizontal	356	1.01	-
5240MHz	Pass	AV	5.36G	52.05	54.00	-1.95	2.98	3	Horizontal	356	1.01	-
5240MHz	Pass	PK	5.1482G	65.21	74.00	-8.79	2.74	3	Horizontal	356	1.01	-
5240MHz	Pass	PK	5.2382G	123.82	Inf	-Inf	2.84	3	Horizontal	356	1.01	-
5240MHz	Pass	PK	5.3774G	63.71	74.00	-10.29	3.00	3	Horizontal	356	1.01	-
5240MHz	Pass	AV	10.48648G	49.48	54.00	-4.52	12.91	3	Vertical	271	1.50	-
5240MHz	Pass	PK	10.47532G	63.34	74.00	-10.66	12.89	3	Vertical	271	1.50	-
5240MHz	Pass	AV	10.47766G	46.74	54.00	-7.26	12.90	3	Horizontal	234	1.32	-
5240MHz	Pass	PK	10.47886G	60.26	74.00	-13.74	12.90	3	Horizontal	234	1.32	-
5745MHz	Pass	AV	5.7474G	104.27	Inf	-Inf	3.63	3	Vertical	168	2.28	-
5745MHz	Pass	PK	5.649G	57.10	68.20	-11.10	3.44	3	Vertical	168	2.28	-
5745MHz	Pass	PK	5.7474G	112.83	Inf	-Inf	3.63	3	Vertical	168	2.28	-
5745MHz	Pass	PK	5.9778G	55.71	68.20	-12.49	4.08	3	Vertical	168	2.28	-
5745MHz	Pass	AV	5.7426G	109.97	Inf	-Inf	3.62	3	Horizontal	357	1.74	-
5745MHz	Pass	PK	5.5902G	60.95	68.20	-7.25	3.32	3	Horizontal	357	1.74	-
5745MHz	Pass	PK	5.7426G	118.53	Inf	-Inf	3.62	3	Horizontal	357	1.74	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5745MHz	Pass	PK	5.9622G	60.64	68.20	-7.56	4.05	3	Horizontal	357	1.74	-
5745MHz	Pass	AV	11.49378G	53.79	54.00	-0.21	13.58	3	Vertical	256	2.57	-
5745MHz	Pass	PK	11.49282G	66.63	74.00	-7.37	13.58	3	Vertical	256	2.57	-
5745MHz	Pass	AV	11.49354G	51.21	54.00	-2.79	13.58	3	Horizontal	286	1.44	-
5745MHz	Pass	PK	11.48298G	63.68	74.00	-10.32	13.59	3	Horizontal	286	1.44	-
5785MHz	Pass	AV	5.7874G	105.20	Inf	-Inf	3.70	3	Vertical	170	1.42	-
5785MHz	Pass	PK	5.6134G	58.14	68.20	-10.06	3.37	3	Vertical	170	1.42	-
5785MHz	Pass	PK	5.7778G	114.69	Inf	-Inf	3.68	3	Vertical	170	1.42	-
5785MHz	Pass	PK	5.9242G	58.66	68.79	-10.13	3.98	3	Vertical	170	1.42	-
5785MHz	Pass	AV	5.7826G	112.56	Inf	-Inf	3.70	3	Horizontal	359	1.96	-
5785MHz	Pass	PK	5.6362G	61.48	68.20	-6.72	3.42	3	Horizontal	359	1.96	-
5785MHz	Pass	PK	5.7838G	121.34	Inf	-Inf	3.70	3	Horizontal	359	1.96	-
5785MHz	Pass	PK	5.965G	60.29	68.20	-7.91	4.06	3	Horizontal	359	1.96	-
5785MHz	Pass	AV	11.57342G	53.45	54.00	-0.55	13.51	3	Vertical	274	2.88	-
5785MHz	Pass	PK	11.56448G	66.27	74.00	-7.73	13.51	3	Vertical	274	2.88	-
5785MHz	Pass	AV	11.49288G	51.00	54.00	-3.00	13.58	3	Horizontal	230	1.49	-
5785MHz	Pass	PK	11.49342G	63.90	74.00	-10.10	13.58	3	Horizontal	230	1.49	-
5825MHz	Pass	AV	5.8226G	107.16	Inf	-Inf	3.78	3	Vertical	0	1.72	-
5825MHz	Pass	PK	5.6162G	58.83	68.20	-9.37	3.37	3	Vertical	0	1.72	-
5825MHz	Pass	PK	5.831G	116.54	Inf	-Inf	3.79	3	Vertical	0	1.72	-
5825MHz	Pass	PK	5.9258G	58.70	68.20	-9.50	3.99	3	Vertical	0	1.72	-
5825MHz	Pass	AV	5.8238G	113.84	Inf	-Inf	3.78	3	Horizontal	352	2.08	-
5825MHz	Pass	PK	5.5586G	63.83	68.20	-4.37	3.25	3	Horizontal	352	2.08	-
5825MHz	Pass	PK	5.8226G	122.89	Inf	-Inf	3.78	3	Horizontal	352	2.08	-
5825MHz	Pass	PK	5.927G	67.70	68.20	-0.50	3.99	3	Horizontal	352	2.08	-
5825MHz	Pass	AV	11.65354G	53.47	54.00	-0.53	13.43	3	Vertical	266	1.87	-
5825MHz	Pass	PK	11.6527G	67.08	74.00	-6.92	13.43	3	Vertical	266	1.87	-
5825MHz	Pass	AV	11.65354G	52.37	54.00	-1.63	13.43	3	Horizontal	316	1.29	-
5825MHz	Pass	PK	11.65312G	64.87	74.00	-9.13	13.43	3	Horizontal	316	1.29	-
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.15G	45.21	54.00	-8.79	2.74	3	Vertical	130	1.50	-
5180MHz	Pass	AV	5.1788G	100.75	Inf	-Inf	2.78	3	Vertical	130	1.50	-
5180MHz	Pass	PK	5.1494G	62.14	74.00	-11.86	2.74	3	Vertical	130	1.50	-
5180MHz	Pass	PK	5.1788G	110.48	Inf	-Inf	2.78	3	Vertical	130	1.50	-
5180MHz	Pass	AV	5.15G	52.89	54.00	-1.11	2.74	3	Horizontal	357	1.01	-
5180MHz	Pass	AV	5.1814G	105.27	Inf	-Inf	2.78	3	Horizontal	357	1.01	-
5180MHz	Pass	PK	5.1496G	67.23	74.00	-6.77	2.74	3	Horizontal	357	1.01	-
5180MHz	Pass	PK	5.1816G	114.25	Inf	-Inf	2.78	3	Horizontal	357	1.01	-
5180MHz	Pass	AV	10.35856G	40.83	54.00	-13.17	12.63	3	Vertical	283	2.50	-
5180MHz	Pass	PK	10.3633G	53.16	74.00	-20.84	12.64	3	Vertical	283	2.50	-
5180MHz	Pass	AV	10.3546G	41.43	54.00	-12.57	12.63	3	Horizontal	279	1.34	-
5180MHz	Pass	PK	10.35124G	54.12	74.00	-19.88	12.61	3	Horizontal	279	1.34	-
5200MHz	Pass	AV	5.1476G	49.75	54.00	-4.25	2.74	3	Vertical	124	1.72	-
5200MHz	Pass	AV	5.2056G	108.22	Inf	-Inf	2.80	3	Vertical	124	1.72	-
5200MHz	Pass	PK	5.1464G	66.26	74.00	-7.74	2.74	3	Vertical	124	1.72	-
5200MHz	Pass	PK	5.2044G	117.61	Inf	-Inf	2.80	3	Vertical	124	1.72	-
5200MHz	Pass	AV	5.1492G	52.70	54.00	-1.30	2.74	3	Horizontal	0	1.02	-
5200MHz	Pass	AV	5.2068G	109.98	Inf	-Inf	2.80	3	Horizontal	0	1.02	-
5200MHz	Pass	PK	5.1484G	67.46	74.00	-6.54	2.74	3	Horizontal	0	1.02	-



RSE TX above 1GHz Result

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5200MHz	Pass	PK	5.2068G	119.40	Inf	-Inf	2.80	3	Horizontal	0	1.02	-
5200MHz	Pass	AV	10.4012G	42.80	54.00	-11.20	12.73	3	Vertical	259	1.54	-
5200MHz	Pass	PK	10.40006G	55.53	74.00	-18.47	12.73	3	Vertical	259	1.54	-
5200MHz	Pass	AV	10.39394G	43.46	54.00	-10.54	12.71	3	Horizontal	279	1.26	-
5200MHz	Pass	PK	10.3958G	56.13	74.00	-17.87	12.71	3	Horizontal	279	1.26	-
5240MHz	Pass	AV	5.12G	46.50	54.00	-7.50	2.70	3	Vertical	135	1.54	-
5240MHz	Pass	AV	5.2454G	106.70	Inf	-Inf	2.85	3	Vertical	135	1.54	-
5240MHz	Pass	AV	5.3642G	46.22	54.00	-7.78	2.98	3	Vertical	135	1.54	-
5240MHz	Pass	PK	5.1278G	58.23	74.00	-15.77	2.72	3	Vertical	135	1.54	-
5240MHz	Pass	PK	5.2442G	115.97	Inf	-Inf	2.85	3	Vertical	135	1.54	-
5240MHz	Pass	PK	5.3666G	58.09	74.00	-15.91	2.99	3	Vertical	135	1.54	-
5240MHz	Pass	AV	5.12G	50.01	54.00	-3.99	2.70	3	Horizontal	354	1.02	-
5240MHz	Pass	AV	5.2358G	112.98	Inf	-Inf	2.84	3	Horizontal	354	1.02	-
5240MHz	Pass	AV	5.36G	53.75	54.00	-0.25	2.98	3	Horizontal	354	1.02	-
5240MHz	Pass	PK	5.1482G	60.20	74.00	-13.80	2.74	3	Horizontal	354	1.02	-
5240MHz	Pass	PK	5.2358G	121.86	Inf	-Inf	2.84	3	Horizontal	354	1.02	-
5240MHz	Pass	PK	5.36G	63.74	74.00	-10.26	2.98	3	Horizontal	354	1.02	-
5240MHz	Pass	AV	10.48042G	44.14	54.00	-9.86	12.90	3	Vertical	270	1.50	-
5240MHz	Pass	PK	10.4803G	57.47	74.00	-16.53	12.90	3	Vertical	270	1.50	-
5240MHz	Pass	AV	10.47832G	43.26	54.00	-10.74	12.90	3	Horizontal	334	1.50	-
5240MHz	Pass	PK	10.47946G	56.04	74.00	-17.96	12.90	3	Horizontal	334	1.50	-
5745MHz	Pass	AV	5.7486G	105.22	Inf	-Inf	3.63	3	Vertical	166	1.70	-
5745MHz	Pass	PK	5.5194G	58.63	68.20	-9.57	3.18	3	Vertical	166	1.70	-
5745MHz	Pass	PK	5.7498G	113.65	Inf	-Inf	3.63	3	Vertical	166	1.70	-
5745MHz	Pass	PK	5.931G	56.29	68.20	-11.91	3.99	3	Vertical	166	1.70	-
5745MHz	Pass	AV	5.7414G	108.72	Inf	-Inf	3.62	3	Horizontal	1	1.72	-
5745MHz	Pass	PK	5.6142G	60.18	68.20	-8.02	3.37	3	Horizontal	1	1.72	-
5745MHz	Pass	PK	5.7426G	117.69	Inf	-Inf	3.62	3	Horizontal	1	1.72	-
5745MHz	Pass	PK	5.9802G	59.86	68.20	-8.34	4.09	3	Horizontal	1	1.72	-
5745MHz	Pass	AV	11.4954G	53.63	54.00	-0.37	13.58	3	Vertical	256	2.32	-
5745MHz	Pass	PK	11.49846G	67.15	74.00	-6.85	13.57	3	Vertical	256	2.32	-
5745MHz	Pass	AV	11.4979G	50.43	54.00	-3.57	13.57	3	Horizontal	254	1.50	-
5745MHz	Pass	PK	11.4983G	64.46	74.00	-9.54	13.57	3	Horizontal	254	1.50	-
5785MHz	Pass	AV	5.7922G	106.63	Inf	-Inf	3.71	3	Vertical	160	1.58	-
5785MHz	Pass	PK	5.5774G	58.79	68.20	-9.41	3.29	3	Vertical	160	1.58	-
5785MHz	Pass	PK	5.7898G	115.56	Inf	-Inf	3.71	3	Vertical	160	1.58	-
5785MHz	Pass	PK	5.9266G	56.99	68.20	-11.21	3.99	3	Vertical	160	1.58	-
5785MHz	Pass	AV	5.7802G	112.59	Inf	-Inf	3.69	3	Horizontal	348	2.40	-
5785MHz	Pass	PK	5.6122G	61.52	68.20	-6.68	3.37	3	Horizontal	348	2.40	-
5785MHz	Pass	PK	5.7814G	121.72	Inf	-Inf	3.69	3	Horizontal	348	2.40	-
5785MHz	Pass	PK	5.9458G	60.03	68.20	-8.17	4.02	3	Horizontal	348	2.40	-
5785MHz	Pass	AV	11.57636G	52.78	54.00	-1.22	13.50	3	Vertical	259	1.91	-
5785MHz	Pass	PK	11.57696G	66.08	74.00	-7.92	13.50	3	Vertical	259	1.91	-
5785MHz	Pass	AV	11.5763G	50.79	54.00	-3.21	13.50	3	Horizontal	290	1.43	-
5785MHz	Pass	PK	11.57852G	64.05	74.00	-9.95	13.50	3	Horizontal	290	1.43	-
5825MHz	Pass	AV	5.8238G	108.20	Inf	-Inf	3.78	3	Vertical	160	1.52	-
5825MHz	Pass	PK	5.591G	59.51	68.20	-8.69	3.32	3	Vertical	160	1.52	-
5825MHz	Pass	PK	5.8238G	117.97	Inf	-Inf	3.78	3	Vertical	160	1.52	-
5825MHz	Pass	PK	5.9318G	59.83	68.20	-8.37	3.99	3	Vertical	160	1.52	-

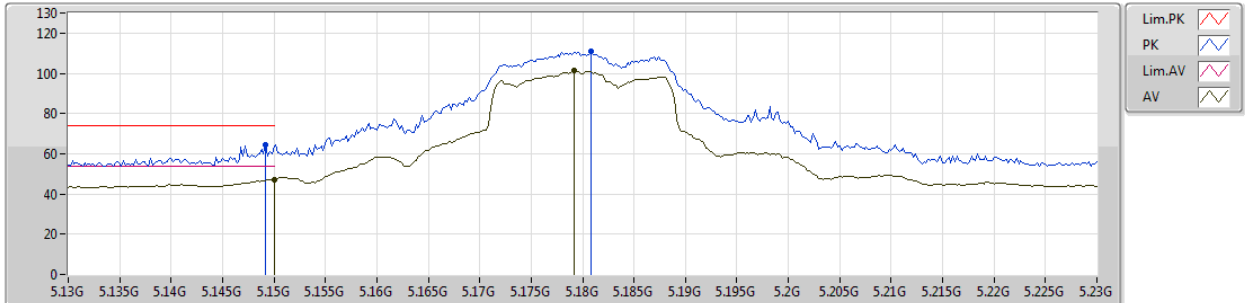
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5825MHz	Pass	AV	5.8178G	111.57	Inf	-Inf	3.76	3	Horizontal	348	2.17	-
5825MHz	Pass	PK	5.6234G	62.59	68.20	-5.61	3.39	3	Horizontal	348	2.17	-
5825MHz	Pass	PK	5.8202G	121.94	Inf	-Inf	3.77	3	Horizontal	348	2.17	-
5825MHz	Pass	PK	5.9246G	67.39	68.50	-1.11	3.98	3	Horizontal	348	2.17	-
5825MHz	Pass	AV	11.65654G	51.91	54.00	-2.09	13.42	3	Vertical	266	1.49	-
5825MHz	Pass	PK	11.6551G	64.58	74.00	-9.42	13.42	3	Vertical	266	1.49	-
5825MHz	Pass	AV	11.6563G	49.44	54.00	-4.56	13.42	3	Horizontal	319	1.43	-
5825MHz	Pass	PK	11.65684G	62.48	74.00	-11.52	13.42	3	Horizontal	319	1.43	-
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	PK	5.1444G	58.85	74.00	-15.15	2.74	3	Vertical	133	1.62	-
5190MHz	Pass	AV	5.15G	46.47	54.00	-7.53	2.74	3	Vertical	133	1.62	-
5190MHz	Pass	PK	5.1988G	103.67	Inf	-Inf	2.80	3	Vertical	133	1.62	-
5190MHz	Pass	AV	5.2004G	94.44	Inf	-Inf	2.80	3	Vertical	133	1.62	-
5190MHz	Pass	AV	5.1476G	53.31	54.00	-0.69	2.74	3	Horizontal	335	1.48	-
5190MHz	Pass	AV	5.204G	97.78	Inf	-Inf	2.80	3	Horizontal	335	1.48	-
5190MHz	Pass	PK	5.1448G	67.79	74.00	-6.21	2.74	3	Horizontal	335	1.48	-
5190MHz	Pass	PK	5.1852G	107.22	Inf	-Inf	2.78	3	Horizontal	335	1.48	-
5190MHz	Pass	AV	10.37574G	41.65	54.00	-12.35	12.67	3	Vertical	25	1.50	-
5190MHz	Pass	PK	10.37208G	53.62	74.00	-20.38	12.66	3	Vertical	25	1.50	-
5190MHz	Pass	AV	10.38744G	41.74	54.00	-12.26	12.69	3	Horizontal	76	1.50	-
5190MHz	Pass	PK	10.37412G	53.94	74.00	-20.06	12.66	3	Horizontal	76	1.50	-
5230MHz	Pass	AV	5.1492G	47.67	54.00	-6.33	2.74	3	Vertical	58	1.60	-
5230MHz	Pass	AV	5.2408G	102.45	Inf	-Inf	2.84	3	Vertical	58	1.60	-
5230MHz	Pass	PK	5.1436G	59.97	74.00	-14.03	2.74	3	Vertical	58	1.60	-
5230MHz	Pass	PK	5.246G	111.83	Inf	-Inf	2.85	3	Vertical	58	1.60	-
5230MHz	Pass	AV	5.144G	51.96	54.00	-2.04	2.74	3	Horizontal	342	1.52	-
5230MHz	Pass	AV	5.2428G	106.23	Inf	-Inf	2.85	3	Horizontal	342	1.52	-
5230MHz	Pass	PK	5.1444G	66.53	74.00	-7.47	2.74	3	Horizontal	342	1.52	-
5230MHz	Pass	PK	5.224G	115.17	Inf	-Inf	2.83	3	Horizontal	342	1.52	-
5230MHz	Pass	AV	10.4618G	43.40	54.00	-10.60	12.86	3	Vertical	272	1.50	-
5230MHz	Pass	PK	10.45172G	55.58	74.00	-18.42	12.83	3	Vertical	272	1.50	-
5230MHz	Pass	AV	10.45016G	42.63	54.00	-11.37	12.83	3	Horizontal	293	1.67	-
5230MHz	Pass	PK	10.4633G	54.60	74.00	-19.40	12.86	3	Horizontal	293	1.67	-
5755MHz	Pass	AV	5.743G	102.77	Inf	-Inf	3.62	3	Vertical	161	1.42	-
5755MHz	Pass	PK	5.6338G	59.15	68.20	-9.05	3.41	3	Vertical	161	1.42	-
5755MHz	Pass	PK	5.7634G	111.26	Inf	-Inf	3.66	3	Vertical	161	1.42	-
5755MHz	Pass	PK	5.9338G	57.19	68.20	-11.01	4.00	3	Vertical	161	1.42	-
5755MHz	Pass	AV	5.7562G	108.14	Inf	-Inf	3.65	3	Horizontal	352	2.32	-
5755MHz	Pass	PK	5.641G	67.63	68.20	-0.57	3.43	3	Horizontal	352	2.32	-
5755MHz	Pass	PK	5.7574G	116.30	Inf	-Inf	3.65	3	Horizontal	352	2.32	-
5755MHz	Pass	PK	5.9314G	59.36	68.20	-8.84	3.99	3	Horizontal	352	2.32	-
5755MHz	Pass	AV	11.5157G	50.14	54.00	-3.86	13.55	3	Vertical	225	1.47	-
5755MHz	Pass	PK	11.49638G	62.73	74.00	-11.27	13.58	3	Vertical	225	1.47	-
5755MHz	Pass	AV	11.51744G	48.02	54.00	-5.98	13.55	3	Horizontal	284	1.78	-
5755MHz	Pass	PK	11.51558G	60.10	74.00	-13.90	13.55	3	Horizontal	284	1.78	-
5795MHz	Pass	AV	5.7842G	103.43	Inf	-Inf	3.70	3	Vertical	171	1.54	-
5795MHz	Pass	PK	5.5802G	58.12	68.20	-10.08	3.30	3	Vertical	171	1.54	-
5795MHz	Pass	PK	5.7842G	112.02	Inf	-Inf	3.70	3	Vertical	171	1.54	-
5795MHz	Pass	PK	5.9258G	58.96	68.20	-9.24	3.99	3	Vertical	171	1.54	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5795MHz	Pass	AV	5.7962G	109.32	Inf	-Inf	3.72	3	Horizontal	1	2.07	-
5795MHz	Pass	PK	5.6414G	64.33	68.20	-3.87	3.43	3	Horizontal	1	2.07	-
5795MHz	Pass	PK	5.7962G	117.40	Inf	-Inf	3.72	3	Horizontal	1	2.07	-
5795MHz	Pass	PK	5.9246G	66.31	68.50	-2.19	3.98	3	Horizontal	1	2.07	-
5795MHz	Pass	AV	11.59606G	49.99	54.00	-4.01	13.49	3	Vertical	264	1.48	-
5795MHz	Pass	PK	11.5948G	61.38	74.00	-12.62	13.49	3	Vertical	264	1.48	-
5795MHz	Pass	AV	11.59606G	47.53	54.00	-6.47	13.49	3	Horizontal	290	1.87	-
5795MHz	Pass	PK	11.59468G	60.07	74.00	-13.93	13.49	3	Horizontal	290	1.87	-

802.11a_Nss1,(6Mbps)_3TX

29/11/2018

5180MHz_TX

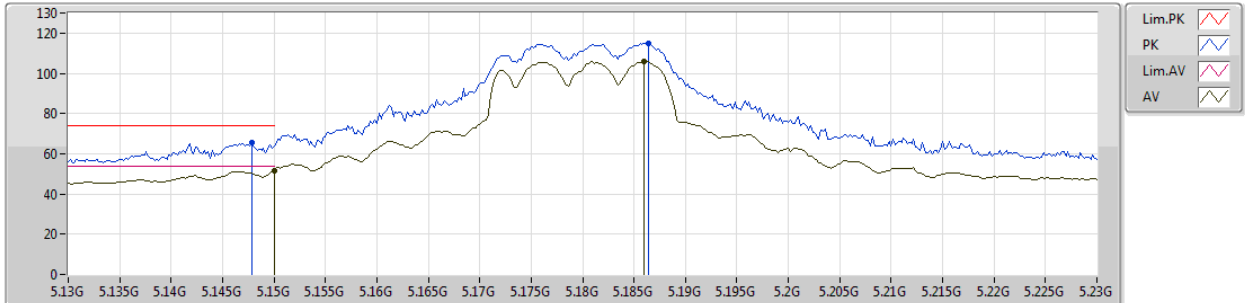


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.15G	47.22	54.00	-6.78	2.74	3	Vertical	130	1.50	-
AV	5.1792G	101.16	Inf	-Inf	2.78	3	Vertical	130	1.50	-
PK	5.1492G	64.17	74.00	-9.83	2.74	3	Vertical	130	1.50	-
PK	5.1808G	110.85	Inf	-Inf	2.78	3	Vertical	130	1.50	-

802.11a_Nss1,(6Mbps)_3TX

29/11/2018

5180MHz_TX

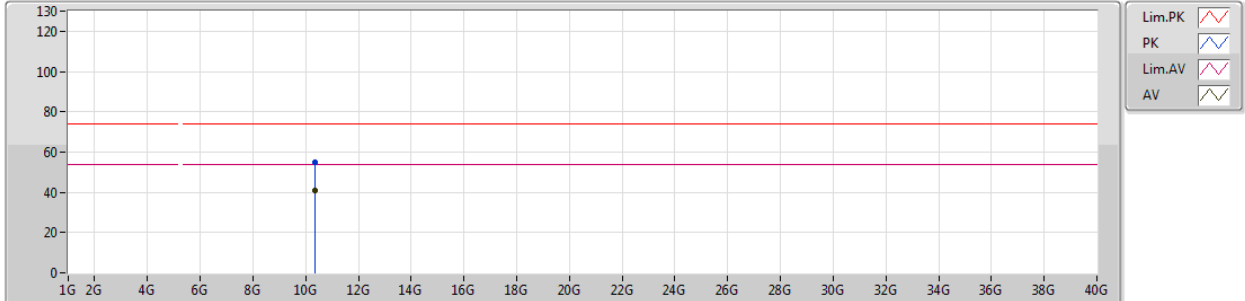


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.15G	51.73	54.00	-2.27	2.74	3	Horizontal	357	1.01	-
AV	5.186G	106.06	Inf	-Inf	2.78	3	Horizontal	357	1.01	-
PK	5.1478G	65.57	74.00	-8.43	2.74	3	Horizontal	357	1.01	-
PK	5.1864G	115.00	Inf	-Inf	2.78	3	Horizontal	357	1.01	-

802.11a_Nss1,(6Mbps)_3TX

29/11/2018

5180MHz_TX

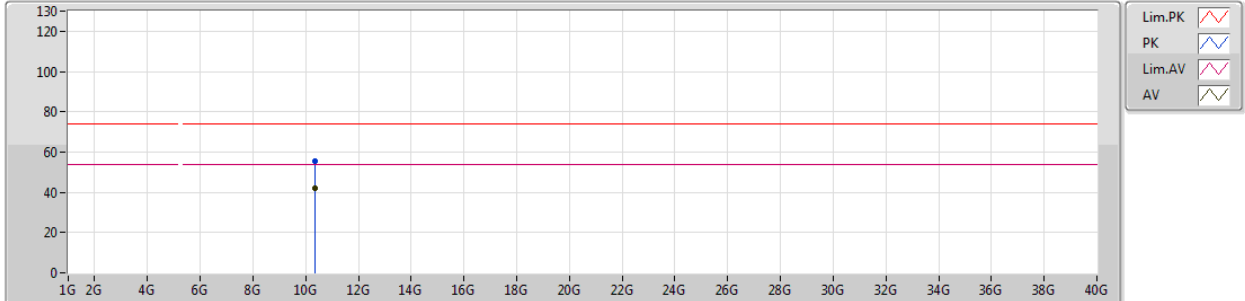


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.36564G	41.02	54.00	-12.98	12.64	3	Vertical	254	2.35	-								
PK	10.35724G	54.91	74.00	-19.09	12.63	3	Vertical	254	2.35	-								

802.11a_Nss1,(6Mbps)_3TX

29/11/2018

5180MHz_TX

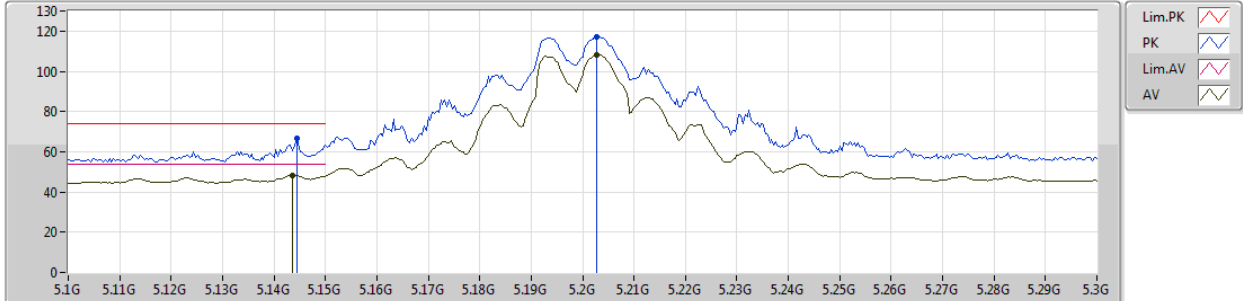


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.36636G	41.81	54.00	-12.19	12.64	3	Horizontal	282	1.34	-								
PK	10.36636G	55.20	74.00	-18.80	12.63	3	Horizontal	282	1.34	-								

802.11a_Nss1,(6Mbps)_3TX

29/11/2018

5200MHz_TX

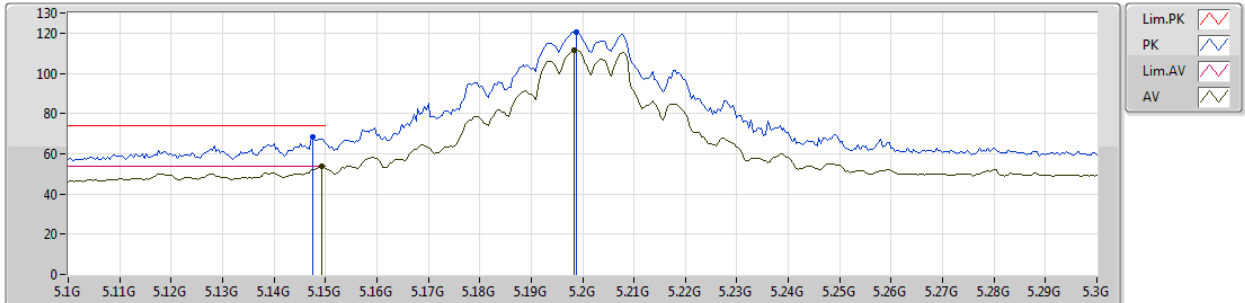


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1436G	48.18	54.00	-5.82	2.74	3	Vertical	123	1.70	-
AV	5.2028G	108.00	Inf	-Inf	2.80	3	Vertical	123	1.70	-
PK	5.1444G	66.58	74.00	-7.42	2.74	3	Vertical	123	1.70	-
PK	5.2028G	117.08	Inf	-Inf	2.80	3	Vertical	123	1.70	-

802.11a_Nss1,(6Mbps)_3TX

29/11/2018

5200MHz_TX

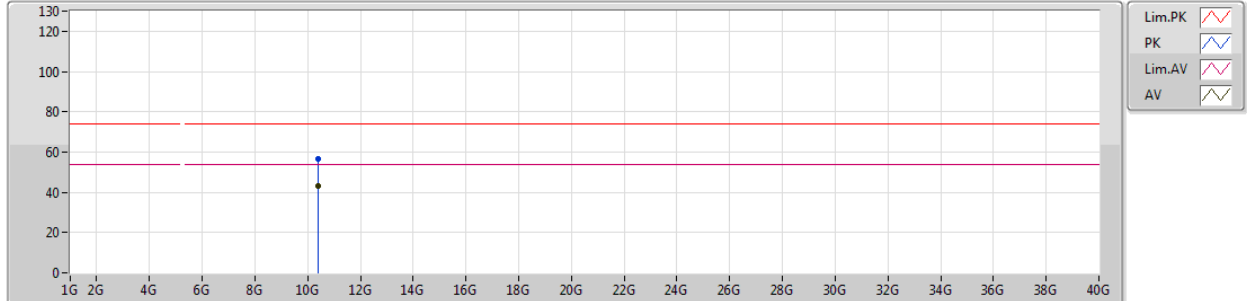


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1492G	53.62	54.00	-0.38	2.74	3	Horizontal	343	1.23	-
AV	5.1984G	111.69	Inf	-Inf	2.80	3	Horizontal	343	1.23	-
PK	5.1476G	68.20	74.00	-5.80	2.74	3	Horizontal	343	1.23	-
PK	5.1988G	120.72	Inf	-Inf	2.80	3	Horizontal	343	1.23	-

802.11a_Nss1,(6Mbps)_3TX

29/11/2018

5200MHz_TX

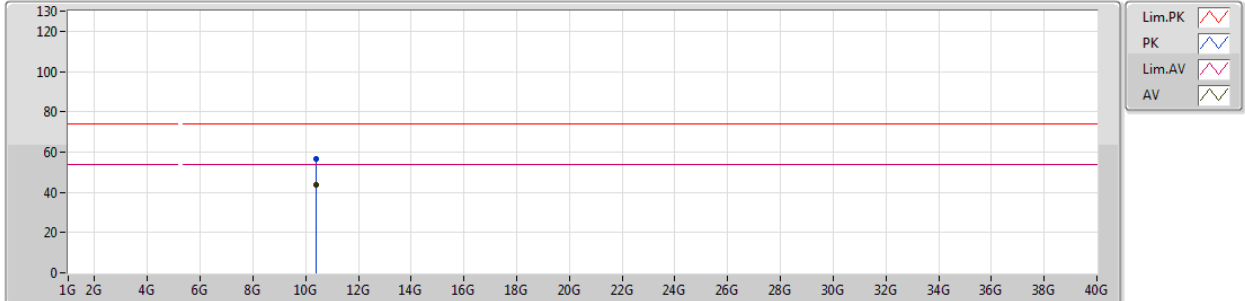


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.3964 G	43.19	54.00	-10.81	12.71	3	Vertical	264	1.57	-								
PK	10.39658 G	56.43	74.00	-17.57	12.72	3	Vertical	264	1.57	-								

802.11a_Nss1,(6Mbps)_3TX

29/11/2018

5200MHz_TX

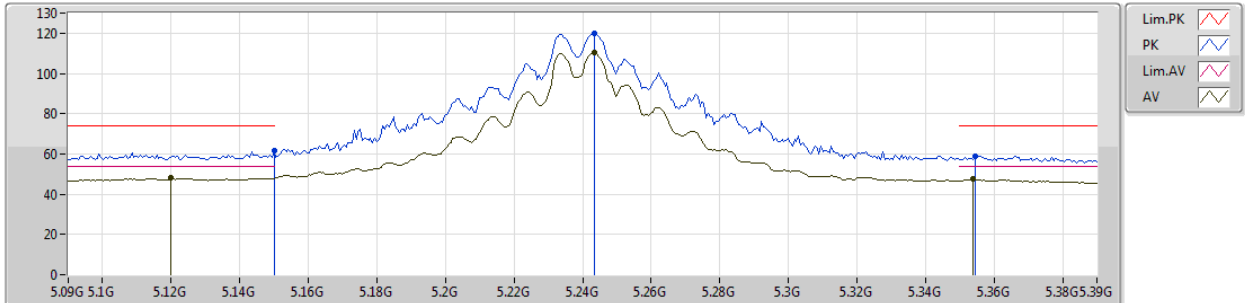


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.39724G	43.74	54.00	-10.26	12.72	3	Horizontal	280	1.50	-								
PK	10.39694G	56.57	74.00	-17.43	12.72	3	Horizontal	280	1.50	-								

802.11a_Nss1,(6Mbps)_3TX

27/11/2018

5240MHz_TX

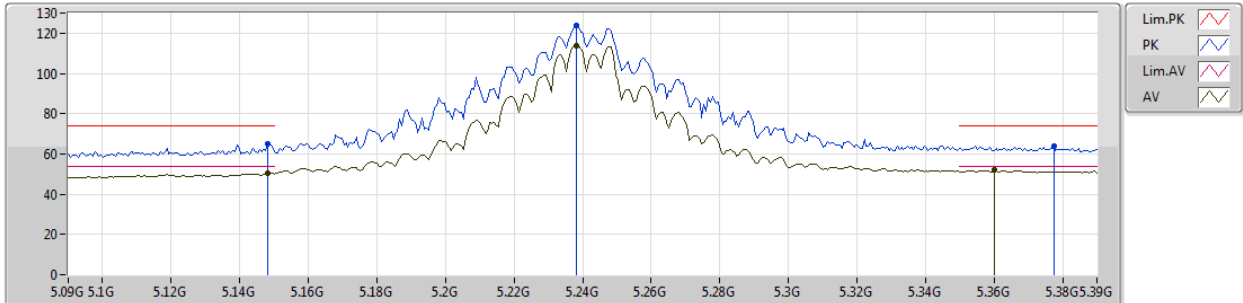


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.12G	48.32	54.00	-5.68	2.70	3	Vertical	56	2.69	-
AV	5.2436G	110.21	Inf	-Inf	2.85	3	Vertical	56	2.69	-
AV	5.354G	47.52	54.00	-6.48	2.97	3	Vertical	56	2.69	-
PK	5.15G	61.59	74.00	-12.41	2.74	3	Vertical	56	2.69	-
PK	5.2436G	119.67	Inf	-Inf	2.85	3	Vertical	56	2.69	-
PK	5.3546G	58.77	74.00	-15.23	2.97	3	Vertical	56	2.69	-

802.11a_Nss1,(6Mbps)_3TX

27/11/2018

5240MHz_TX

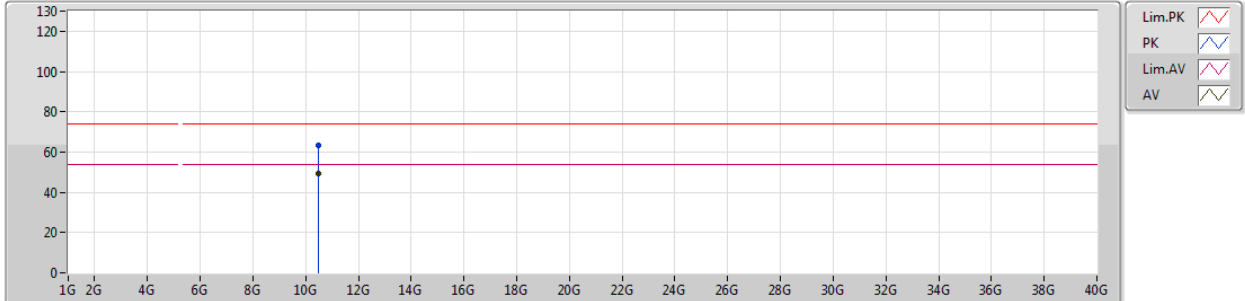


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1482G	50.52	54.00	-3.48	2.74	3	Horizontal	356	1.01	-
AV	5.2382G	113.99	Inf	-Inf	2.84	3	Horizontal	356	1.01	-
AV	5.36G	52.05	54.00	-1.95	2.98	3	Horizontal	356	1.01	-
PK	5.1482G	65.21	74.00	-8.79	2.74	3	Horizontal	356	1.01	-
PK	5.2382G	123.82	Inf	-Inf	2.84	3	Horizontal	356	1.01	-
PK	5.3774G	63.71	74.00	-10.29	3.00	3	Horizontal	356	1.01	-

802.11a_Nss1,(6Mbps)_3TX

27/11/2018

5240MHz_TX

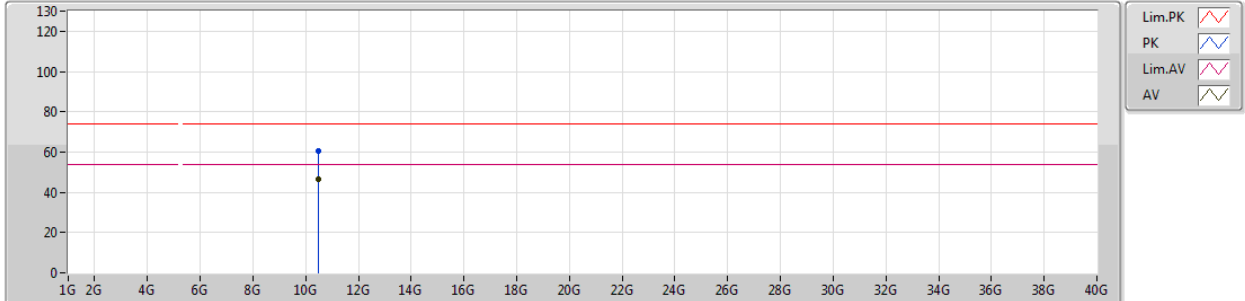


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.48648G	49.48	54.00	-4.52	12.91	3	Vertical	271	1.50	-
PK	10.47532G	63.34	74.00	-10.66	12.89	3	Vertical	271	1.50	-

802.11a_Nss1,(6Mbps)_3TX

27/11/2018

5240MHz_TX

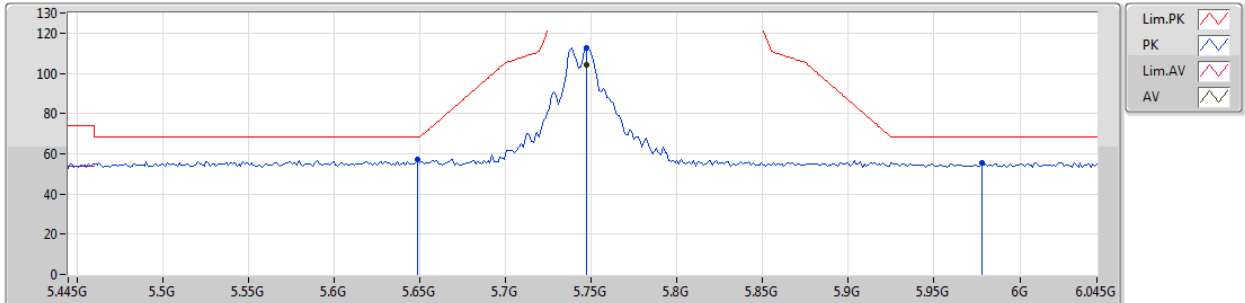


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.47766G	46.74	54.00	-7.26	12.90	3	Horizontal	234	1.32	-								
PK	10.47886G	60.26	74.00	-13.74	12.90	3	Horizontal	234	1.32	-								

802.11a_Nss1,(6Mbps)_3TX

27/11/2018

5745MHz_TX

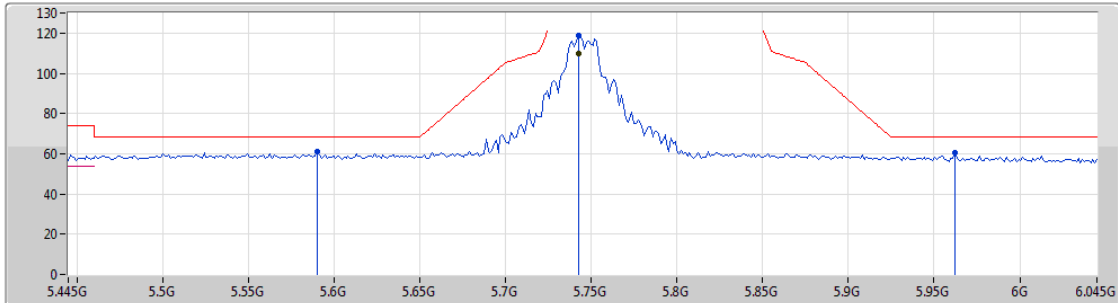


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7474G	104.27	Inf	-Inf	3.63	3	Vertical	168	2.28	-
PK	5.649G	57.10	68.20	-11.10	3.44	3	Vertical	168	2.28	-
PK	5.7474G	112.83	Inf	-Inf	3.63	3	Vertical	168	2.28	-
PK	5.9778G	55.71	68.20	-12.49	4.08	3	Vertical	168	2.28	-

802.11a_Nss1,(6Mbps)_3TX

27/11/2018

5745MHz_TX



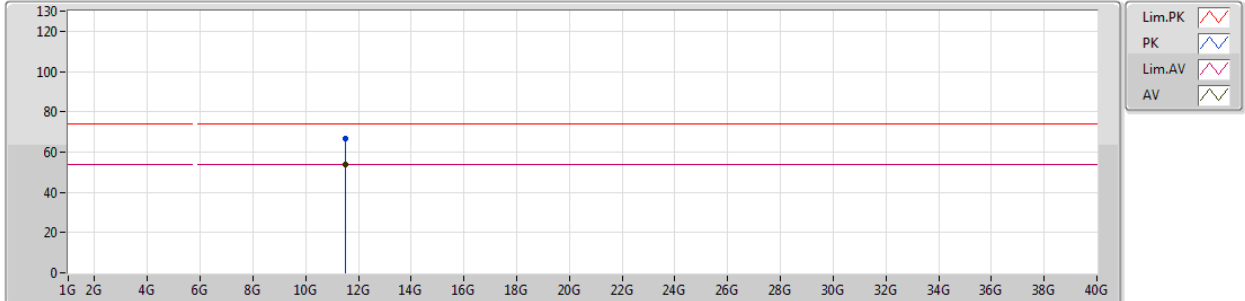
Lim.PK	
PK	
Lim.AV	
AV	

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments							
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)								
AV	5.7426G	109.97	Inf	-Inf	3.62	3	Horizontal	357	1.74	-							
PK	5.5902G	60.95	68.20	-7.25	3.32	3	Horizontal	357	1.74	-							
PK	5.7426G	118.53	Inf	-Inf	3.62	3	Horizontal	357	1.74	-							
PK	5.9622G	60.64	68.20	-7.56	4.05	3	Horizontal	357	1.74	-							

802.11a_Nss1,(6Mbps)_3TX

29/11/2018

5745MHz_TX

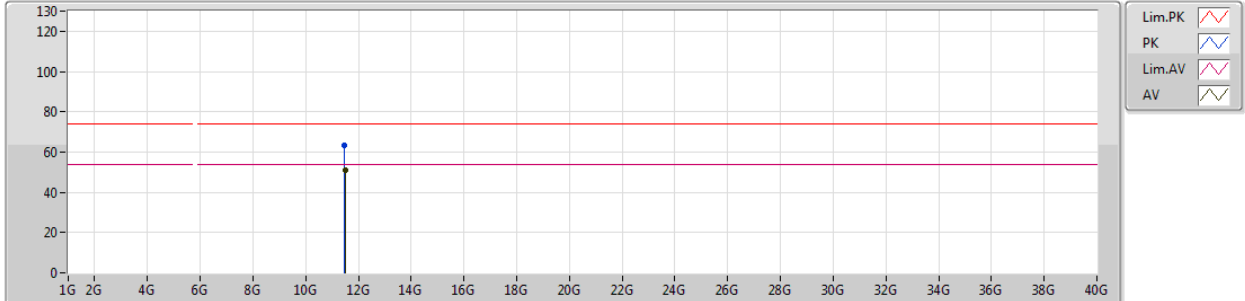


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.49378G	53.79	54.00	-0.21	13.58	3	Vertical	256	2.57	-								
PK	11.49282G	66.63	74.00	-7.37	13.58	3	Vertical	256	2.57	-								

802.11a_Nss1,(6Mbps)_3TX

27/11/2018

5745MHz_TX

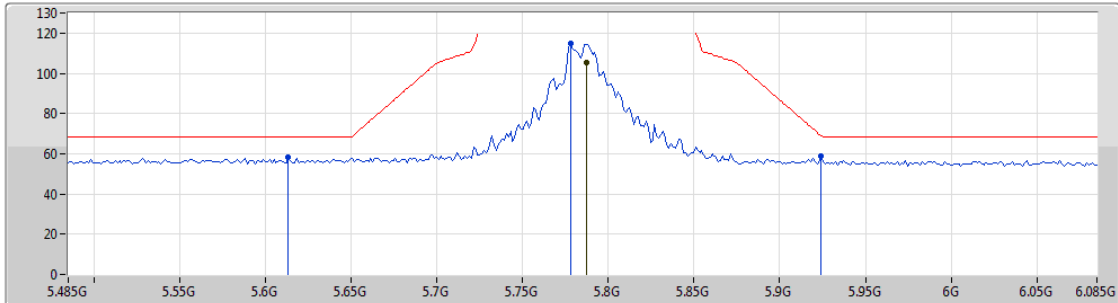


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.49354G	51.06	54.00	-2.94	13.58	3	Horizontal	230	1.49	-								
PK	11.4822G	63.41	74.00	-10.59	13.58	3	Horizontal	230	1.49	-								

802.11a_Nss1,(6Mbps)_3TX

29/11/2018

5785MHz_TX

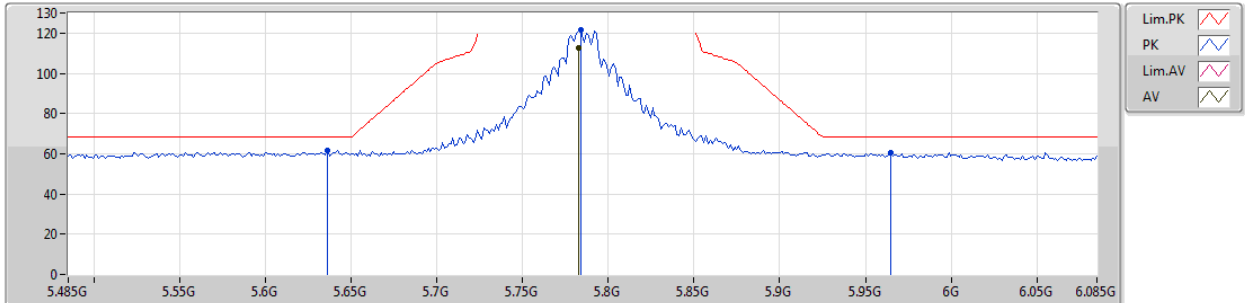


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7874G	105.20	Inf	-Inf	3.70	3	Vertical	170	1.42	-
PK	5.6134G	58.14	68.20	-10.06	3.37	3	Vertical	170	1.42	-
PK	5.7778G	114.69	Inf	-Inf	3.68	3	Vertical	170	1.42	-
PK	5.9242G	58.66	68.79	-10.13	3.98	3	Vertical	170	1.42	-

802.11a_Nss1,(6Mbps)_3TX

29/11/2018

5785MHz_TX

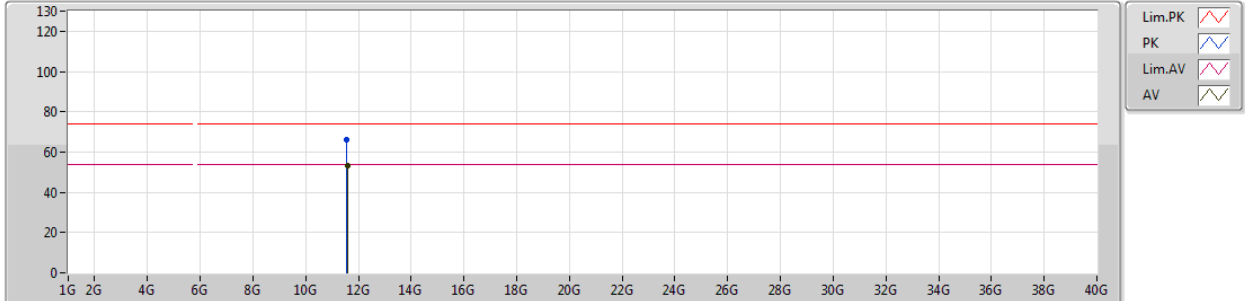


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7826G	112.56	Inf	-Inf	3.70	3	Horizontal	359	1.96	-
PK	5.6362G	61.48	68.20	-6.72	3.42	3	Horizontal	359	1.96	-
PK	5.7838G	121.34	Inf	-Inf	3.70	3	Horizontal	359	1.96	-
PK	5.965G	60.29	68.20	-7.91	4.06	3	Horizontal	359	1.96	-

802.11a_Nss1,(6Mbps)_3TX

29/11/2018

5785MHz_TX

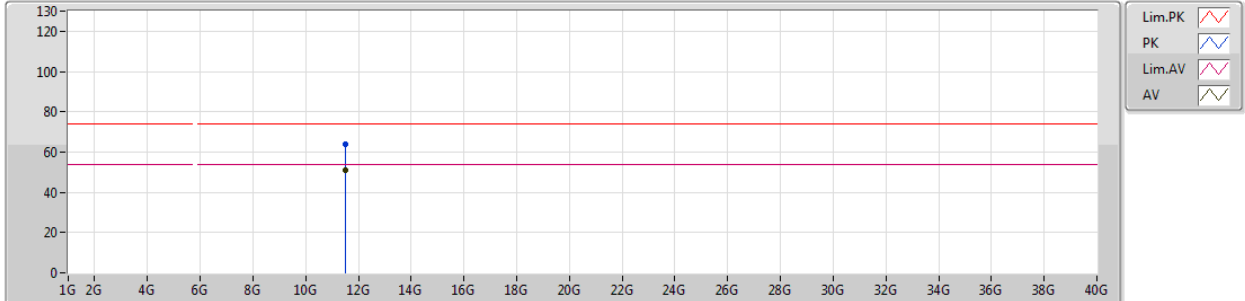


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments							
AV	11.57342G	53.45	54.00	-0.55	13.51	3	Vertical	274	2.88	-							
PK	11.56448G	66.27	74.00	-7.73	13.51	3	Vertical	274	2.88	-							

802.11a_Nss1,(6Mbps)_3TX

29/11/2018

5785MHz_TX

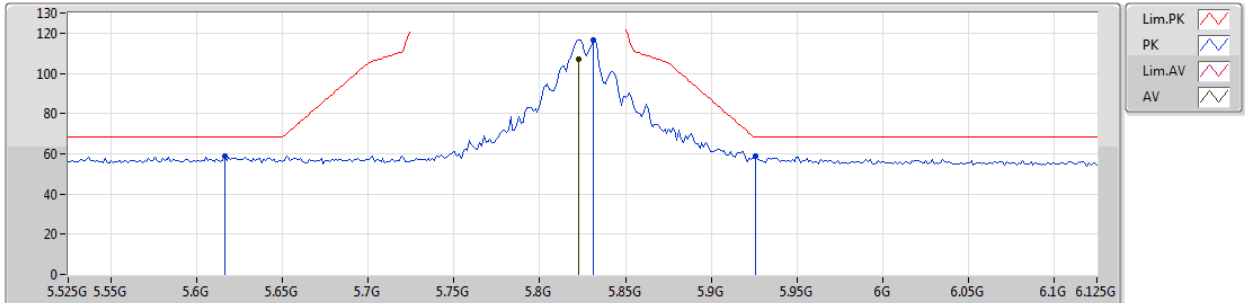


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.49288G	51.00	54.00	-3.00	13.58	3	Horizontal	230	1.49	-								
PK	11.49342G	63.90	74.00	-10.10	13.58	3	Horizontal	230	1.49	-								

802.11a_Nss1,(6Mbps)_3TX

27/11/2018

5825MHz_TX

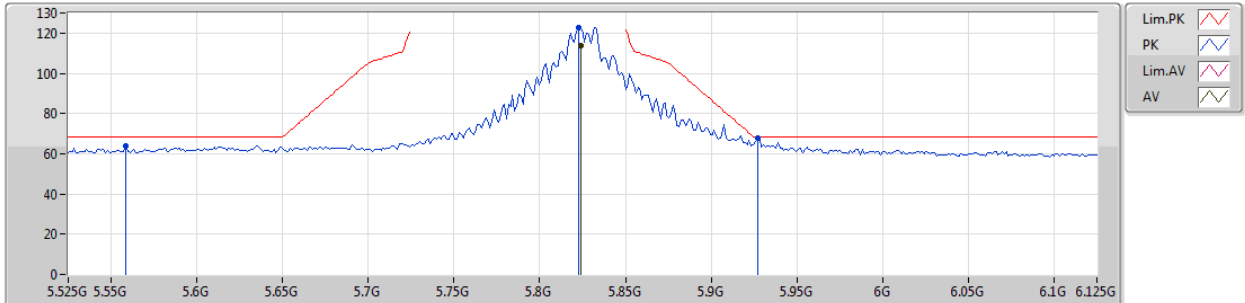


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.8226G	107.16	Inf	-Inf	3.78	3	Vertical	0	1.72	-
PK	5.8162G	58.83	68.20	-9.37	3.37	3	Vertical	0	1.72	-
PK	5.831G	116.54	Inf	-Inf	3.79	3	Vertical	0	1.72	-
PK	5.9258G	58.70	68.20	-9.50	3.99	3	Vertical	0	1.72	-

802.11a_Nss1,(6Mbps)_3TX

27/11/2018

5825MHz_TX

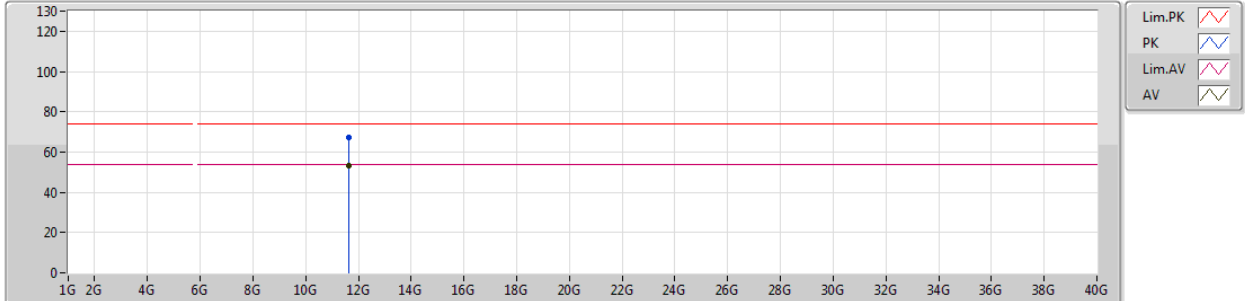


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.8238G	113.84	Inf	-Inf	3.78	3	Horizontal	352	2.08	-
PK	5.5586G	63.83	68.20	-4.37	3.25	3	Horizontal	352	2.08	-
PK	5.8226G	122.89	Inf	-Inf	3.78	3	Horizontal	352	2.08	-
PK	5.927G	67.70	68.20	-0.50	3.99	3	Horizontal	352	2.08	-

802.11a_Nss1,(6Mbps)_3TX

27/11/2018

5825MHz_TX

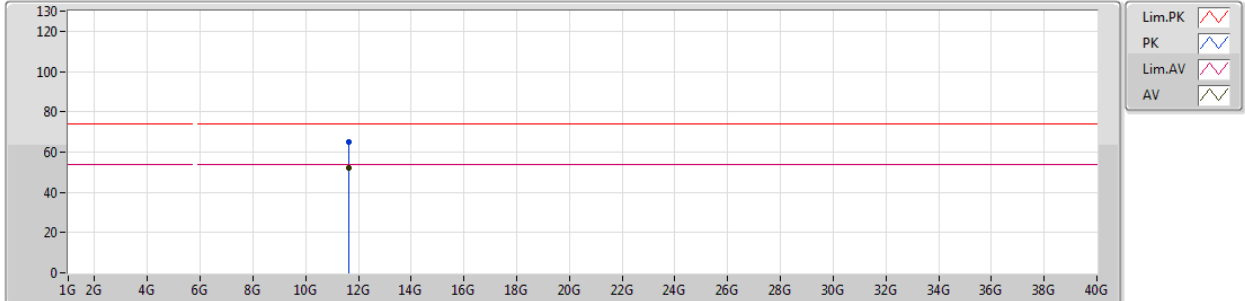


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.65354G	53.47	54.00	-0.53	13.43	3	Vertical	266	1.87	-								
PK	11.6527G	67.08	74.00	-6.92	13.43	3	Vertical	266	1.87	-								

802.11a_Nss1,(6Mbps)_3TX

27/11/2018

5825MHz_TX

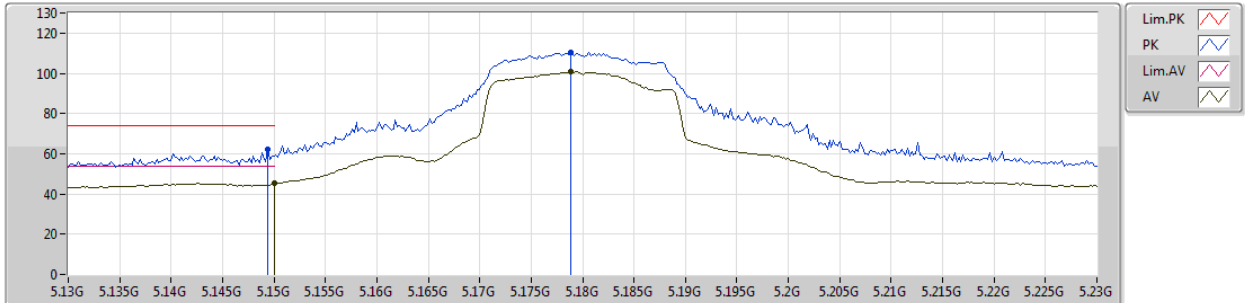


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.65312G	52.37	54.00	-1.63	13.43	3	Horizontal	316	1.29	-
PK	11.65312G	64.87	74.00	-9.13	13.43	3	Horizontal	316	1.29	-

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5180MHz_TX

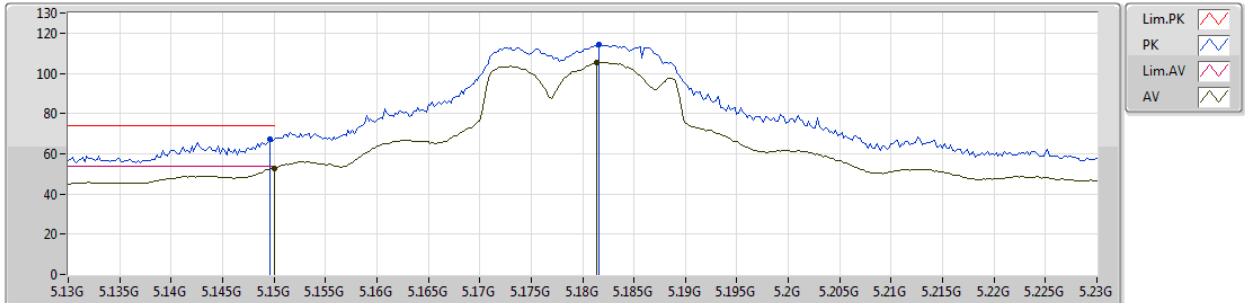


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.15G	45.21	54.00	-8.79	2.74	3	Vertical	130	1.50	-
AV	5.1788G	100.75	Inf	-Inf	2.78	3	Vertical	130	1.50	-
PK	5.1494G	62.14	74.00	-11.86	2.74	3	Vertical	130	1.50	-
PK	5.1788G	110.48	Inf	-Inf	2.78	3	Vertical	130	1.50	-

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5180MHz_TX

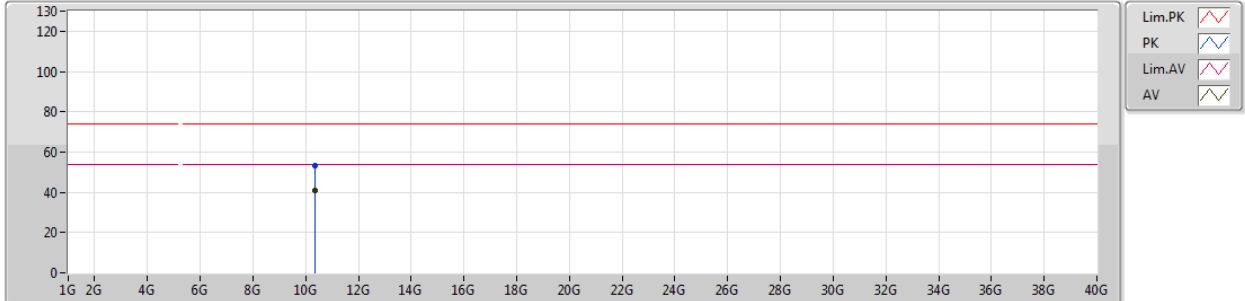


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.15G	52.89	54.00	-1.11	2.74	3	Horizontal	357	1.01	-
AV	5.1814G	105.27	Inf	-Inf	2.78	3	Horizontal	357	1.01	-
PK	5.1496G	67.23	74.00	-6.77	2.74	3	Horizontal	357	1.01	-
PK	5.1816G	114.25	Inf	-Inf	2.78	3	Horizontal	357	1.01	-

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5180MHz_TX

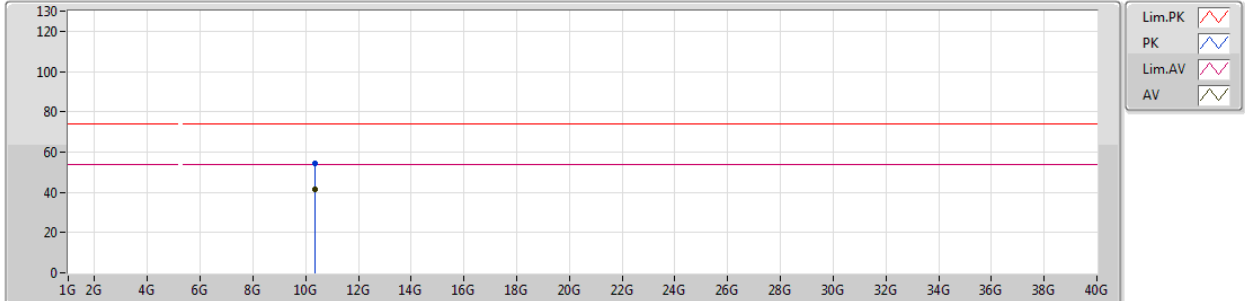


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments								
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)									
AV	10.35856G	40.83	54.00	-13.17	12.63	3	Vertical	283	2.50	-								
PK	10.3633G	53.16	74.00	-20.84	12.64	3	Vertical	283	2.50	-								

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5180MHz_TX

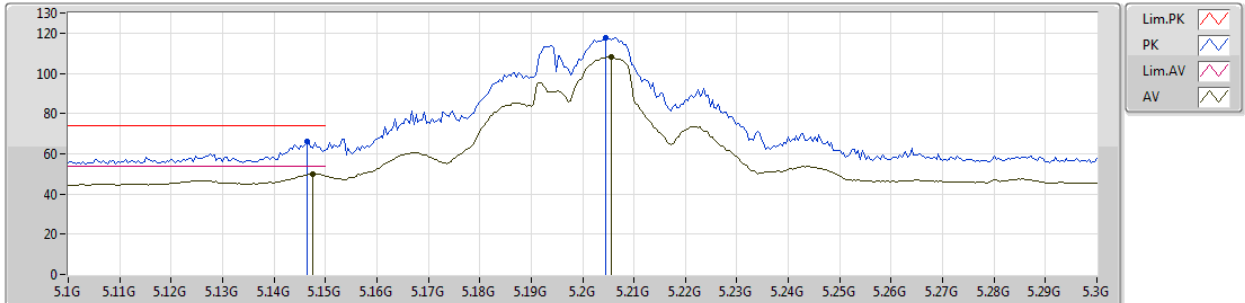


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.3546G	41.43	54.00	-12.57	12.63	3	Horizontal	279	1.34	-								
PK	10.35124G	54.12	74.00	-19.88	12.61	3	Horizontal	279	1.34	-								

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5200MHz_TX

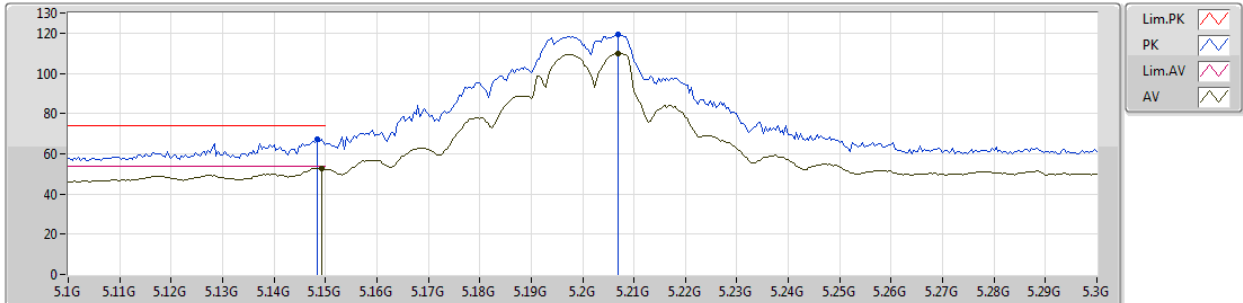


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1476G	49.75	54.00	-4.25	2.74	3	Vertical	124	1.72	-
AV	5.2056G	108.22	Inf	-Inf	2.80	3	Vertical	124	1.72	-
PK	5.1464G	66.26	74.00	-7.74	2.74	3	Vertical	124	1.72	-
PK	5.2044G	117.61	Inf	-Inf	2.80	3	Vertical	124	1.72	-

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5200MHz_TX

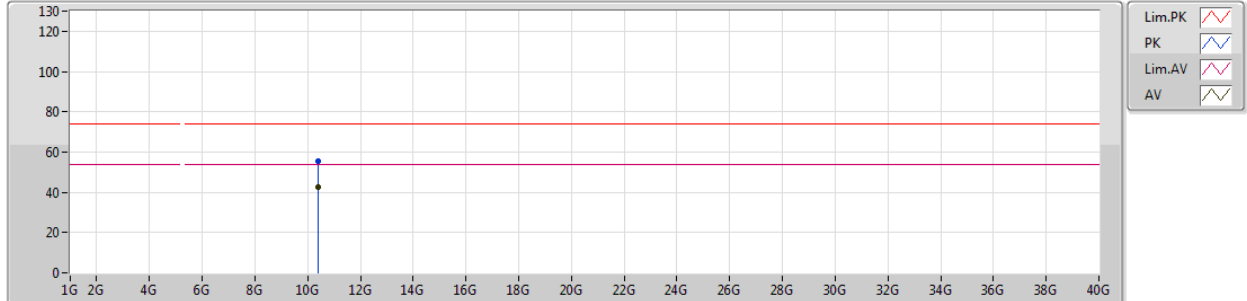


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	5.1492G	52.70	54.00	-1.30	2.74	3	Horizontal	0	1.02	-								
AV	5.2068G	109.98	Inf	-Inf	2.80	3	Horizontal	0	1.02	-								
PK	5.1484G	67.46	74.00	-6.54	2.74	3	Horizontal	0	1.02	-								
PK	5.2068G	119.40	Inf	-Inf	2.80	3	Horizontal	0	1.02	-								

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5200MHz_TX

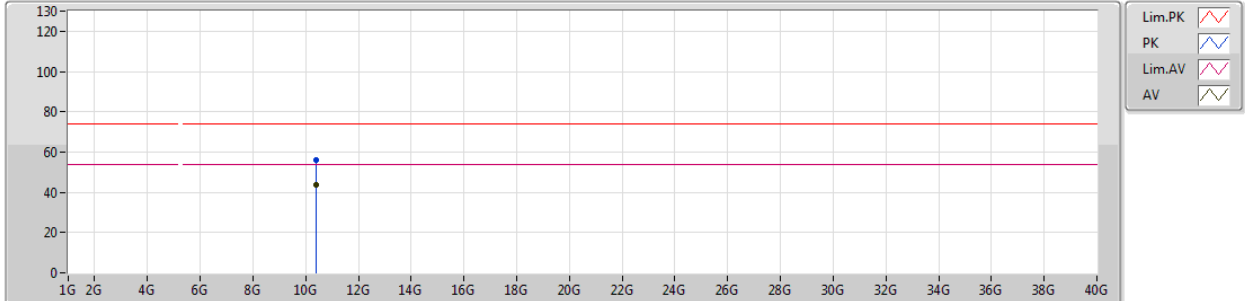


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.4012G	42.80	54.00	-11.20	12.73	3	Vertical	259	1.54	-
PK	10.40006G	55.53	74.00	-18.47	12.73	3	Vertical	259	1.54	-

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5200MHz_TX

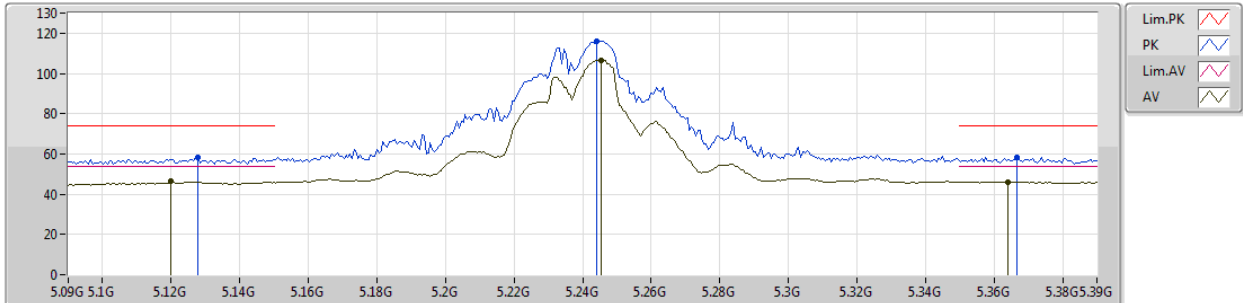


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.39394G	43.46	54.00	-10.54	12.71	3	Horizontal	279	1.26	-
PK	10.3958G	56.13	74.00	-17.87	12.71	3	Horizontal	279	1.26	-

802.11n HT20_Nss1,(MCS0)_3TX

27/11/2018

5240MHz_TX

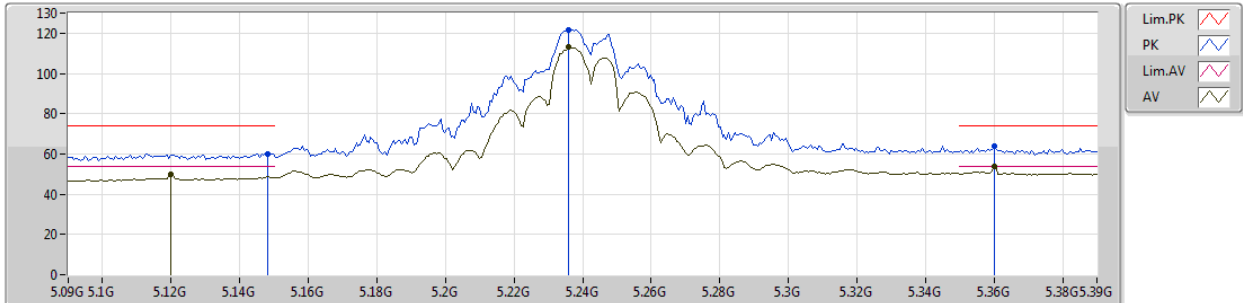


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.12G	46.50	54.00	-7.50	2.70	3	Vertical	135	1.54	-
AV	5.2454G	106.70	Inf	-Inf	2.85	3	Vertical	135	1.54	-
AV	5.3642G	46.22	54.00	-7.78	2.98	3	Vertical	135	1.54	-
PK	5.1278G	58.23	74.00	-15.77	2.72	3	Vertical	135	1.54	-
PK	5.2442G	115.97	Inf	-Inf	2.85	3	Vertical	135	1.54	-
PK	5.3666G	58.09	74.00	-15.91	2.99	3	Vertical	135	1.54	-

802.11n HT20_Nss1,(MCS0)_3TX

27/11/2018

5240MHz_TX

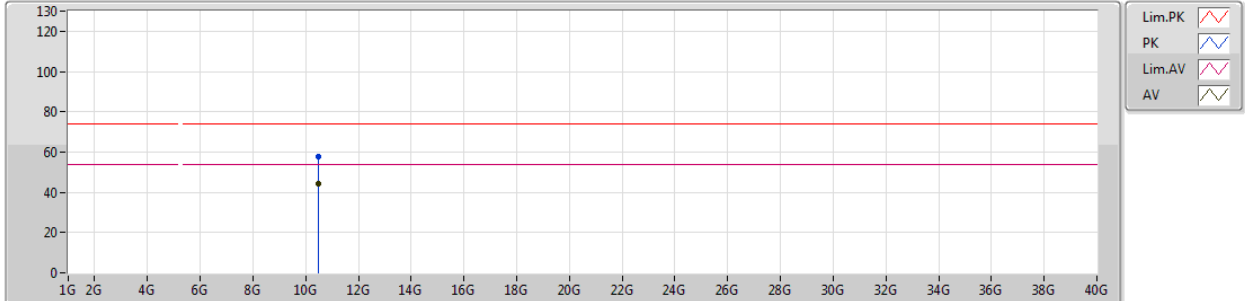


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.12G	50.01	54.00	-3.99	2.70	3	Horizontal	354	1.02	-
AV	5.2358G	112.98	Inf	-Inf	2.84	3	Horizontal	354	1.02	-
AV	5.36G	53.75	54.00	-0.25	2.98	3	Horizontal	354	1.02	-
PK	5.1482G	60.20	74.00	-13.80	2.74	3	Horizontal	354	1.02	-
PK	5.2358G	121.86	Inf	-Inf	2.84	3	Horizontal	354	1.02	-
PK	5.36G	63.74	74.00	-10.26	2.98	3	Horizontal	354	1.02	-

802.11n HT20_Nss1,(MCS0)_3TX

27/11/2018

5240MHz_TX

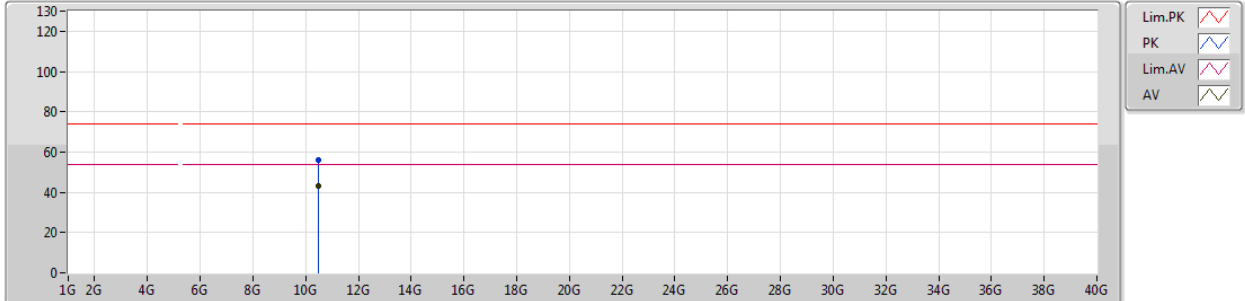


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.48042G	44.14	54.00	-9.86	12.90	3	Vertical	270	1.50	-
PK	10.4803G	57.47	74.00	-16.53	12.90	3	Vertical	270	1.50	-

802.11n HT20_Nss1,(MCS0)_3TX

27/11/2018

5240MHz_TX

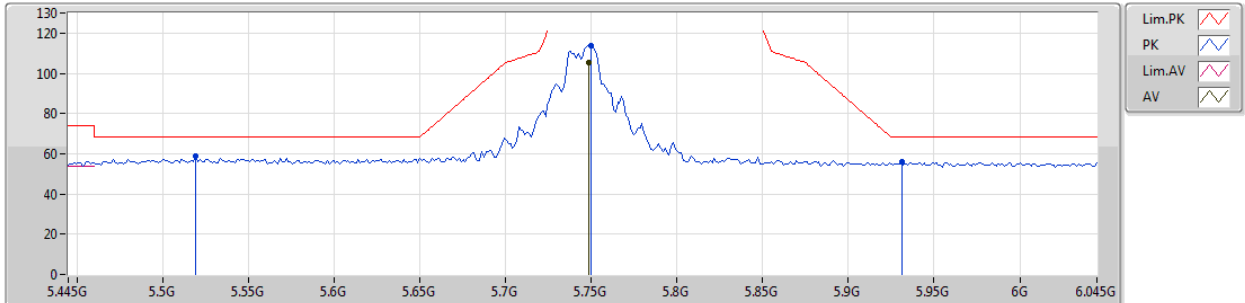


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	10.47832G	43.26	54.00	-10.74	12.90	3	Horizontal	334	1.50	-
PK	10.47946G	56.04	74.00	-17.96	12.90	3	Horizontal	334	1.50	-

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5745MHz_TX

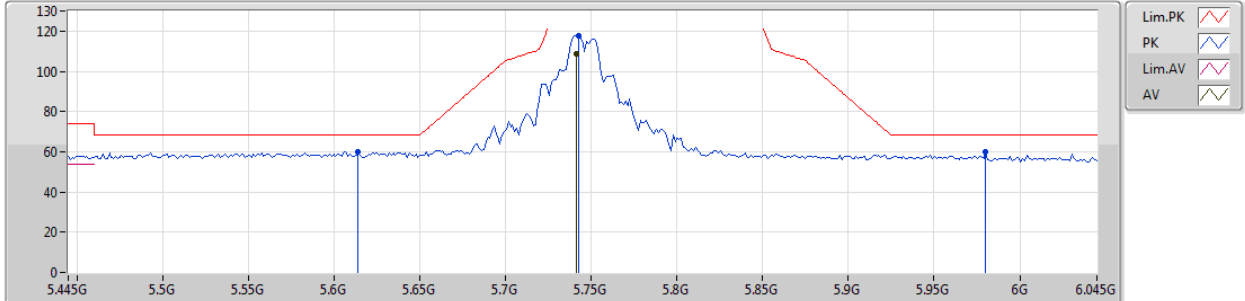


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7486G	105.22	Inf	-Inf	3.63	3	Vertical	166	1.70	-
PK	5.5194G	58.63	68.20	-9.57	3.18	3	Vertical	166	1.70	-
PK	5.7498G	113.65	Inf	-Inf	3.63	3	Vertical	166	1.70	-
PK	5.931G	56.29	68.20	-11.91	3.99	3	Vertical	166	1.70	-

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5745MHz_TX

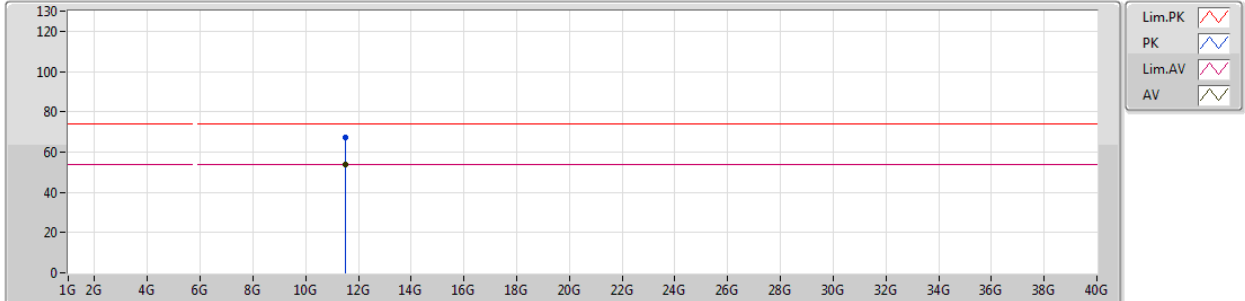


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	5.7414G	108.72	Inf	-Inf	3.62	3	Horizontal	1	1.72	-								
PK	5.6142G	60.18	68.20	-8.02	3.37	3	Horizontal	1	1.72	-								
PK	5.7426G	117.69	Inf	-Inf	3.62	3	Horizontal	1	1.72	-								
PK	5.9802G	59.86	68.20	-8.34	4.09	3	Horizontal	1	1.72	-								

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5745MHz_TX

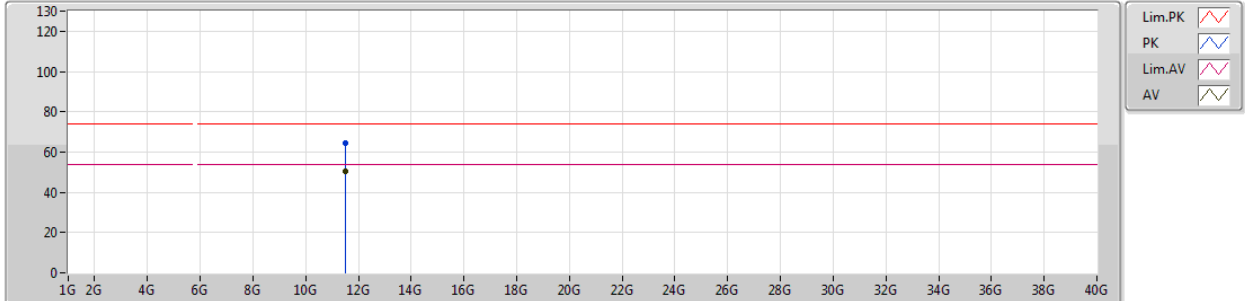


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.4954G	53.63	54.00	-0.37	13.58	3	Vertical	256	2.32	-								
PK	11.49846G	67.15	74.00	-6.85	13.57	3	Vertical	256	2.32	-								

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5745MHz_TX

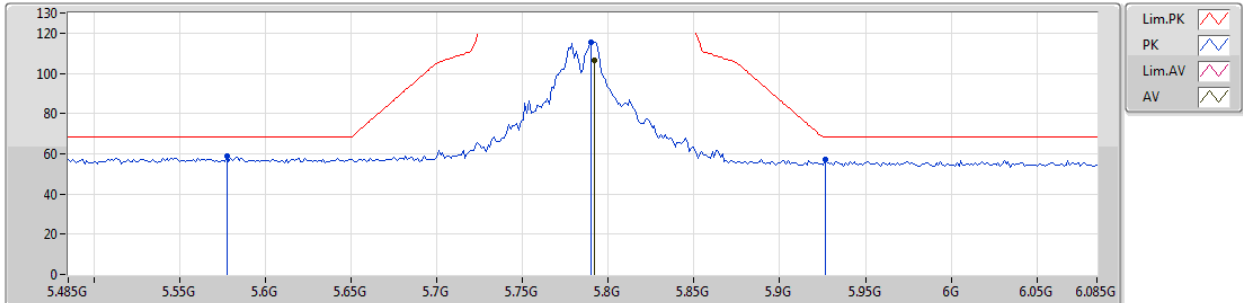


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.4979G	50.43	54.00	-3.57	13.57	3	Horizontal	254	1.50	-								
PK	11.4983G	64.46	74.00	-9.54	13.57	3	Horizontal	254	1.50	-								

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5785MHz_TX

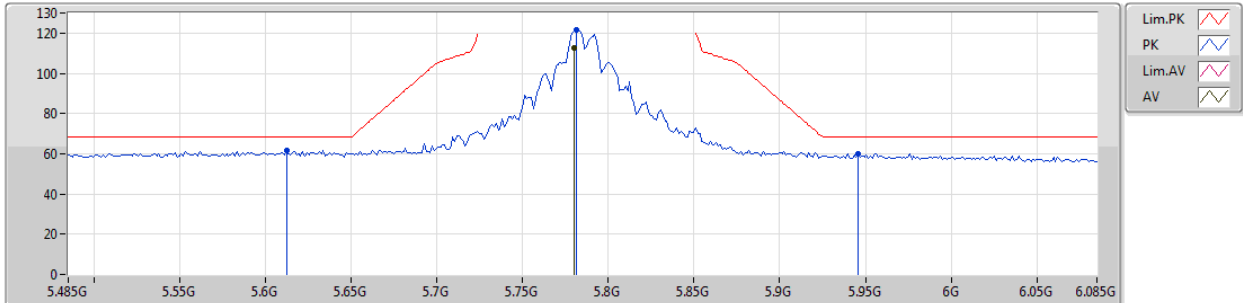


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7922G	106.63	Inf	-Inf	3.71	3	Vertical	160	1.58	-
PK	5.5774G	58.79	68.20	-9.41	3.29	3	Vertical	160	1.58	-
PK	5.7898G	115.56	Inf	-Inf	3.71	3	Vertical	160	1.58	-
PK	5.9266G	56.99	68.20	-11.21	3.99	3	Vertical	160	1.58	-

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5785MHz_TX

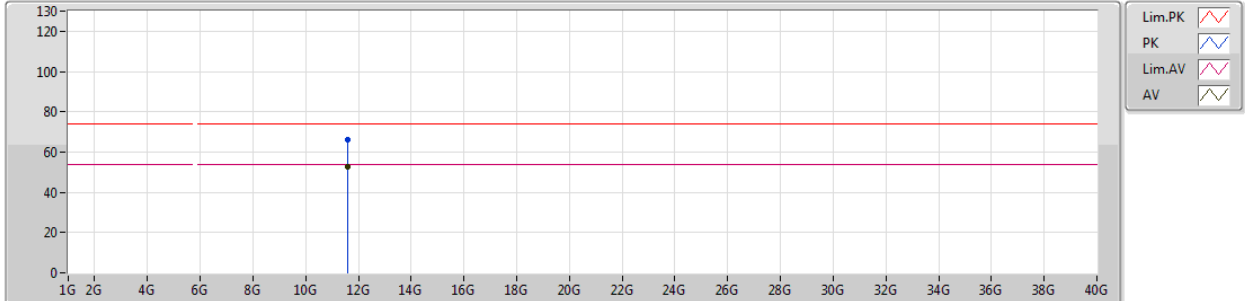


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7802G	112.59	Inf	-Inf	3.69	3	Horizontal	348	2.40	-
PK	5.6122G	61.52	68.20	-6.68	3.37	3	Horizontal	348	2.40	-
PK	5.7814G	121.72	Inf	-Inf	3.69	3	Horizontal	348	2.40	-
PK	5.9458G	60.03	68.20	-8.17	4.02	3	Horizontal	348	2.40	-

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5785MHz_TX

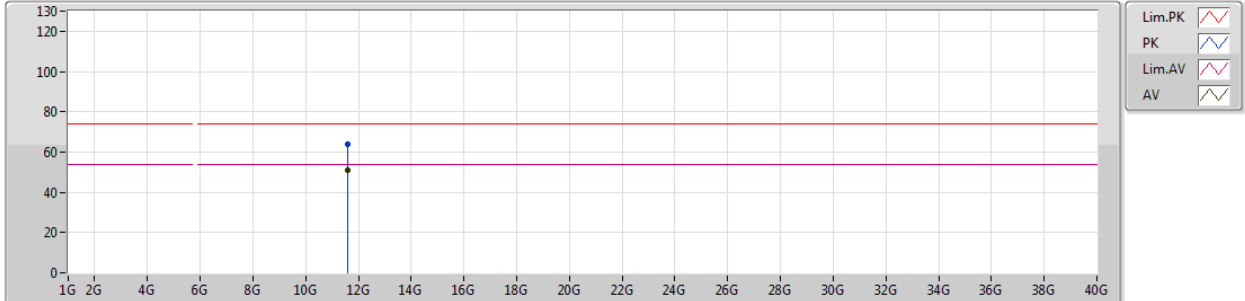


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.57636G	52.78	54.00	-1.22	13.50	3	Vertical	259	1.91	-								
PK	11.57696G	66.08	74.00	-7.92	13.50	3	Vertical	259	1.91	-								

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5785MHz_TX

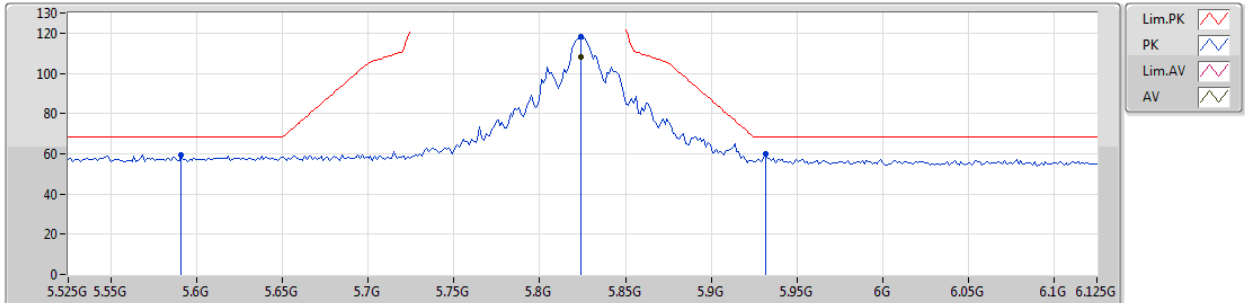


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.5763G	50.79	54.00	-3.21	13.50	3	Horizontal	290	1.43	-								
PK	11.57852G	64.05	74.00	-9.95	13.50	3	Horizontal	290	1.43	-								

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5825MHz_TX

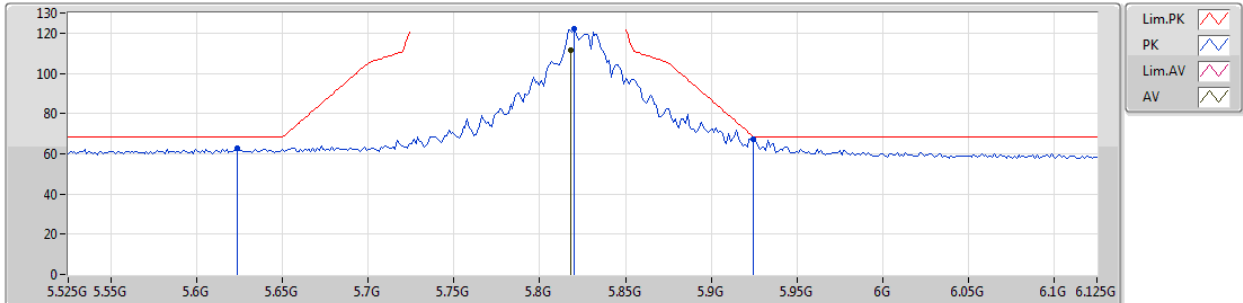


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.8238G	108.20	Inf	-Inf	3.78	3	Vertical	160	1.52	-
PK	5.591G	59.51	68.20	-8.69	3.32	3	Vertical	160	1.52	-
PK	5.8238G	117.97	Inf	-Inf	3.78	3	Vertical	160	1.52	-
PK	5.9318G	59.83	68.20	-8.37	3.99	3	Vertical	160	1.52	-

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5825MHz_TX

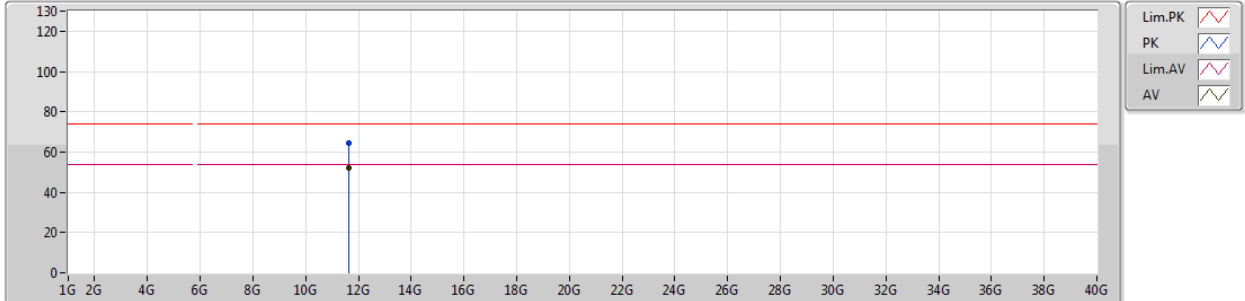


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.8178G	111.57	Inf	-Inf	3.76	3	Horizontal	348	2.17	-
PK	5.6234G	62.59	68.20	-5.61	3.39	3	Horizontal	348	2.17	-
PK	5.8202G	121.94	Inf	-Inf	3.77	3	Horizontal	348	2.17	-
PK	5.9246G	67.39	68.50	-1.11	3.98	3	Horizontal	348	2.17	-

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5825MHz_TX

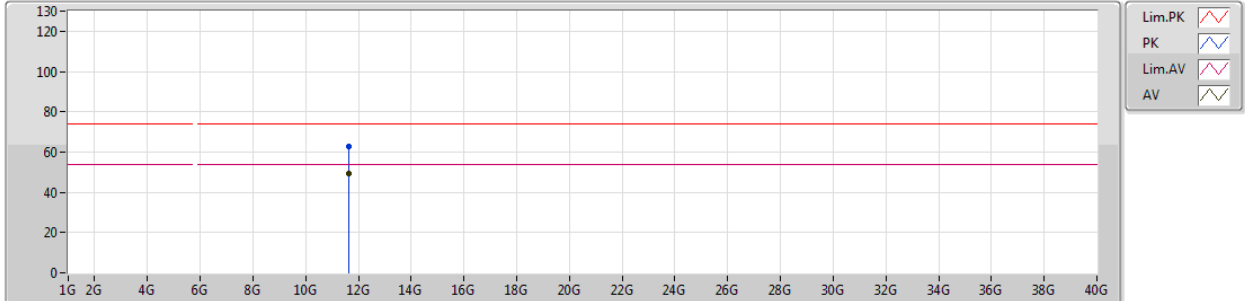


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.65654G	51.91	54.00	-2.09	13.42	3	Vertical	266	1.49	-								
PK	11.6551G	64.58	74.00	-9.42	13.42	3	Vertical	266	1.49	-								

802.11n HT20_Nss1,(MCS0)_3TX

29/11/2018

5825MHz_TX

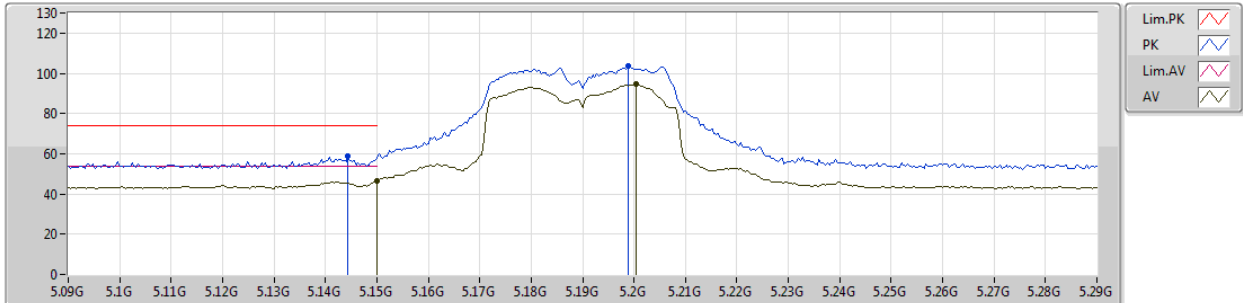


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.6563G	49.44	54.00	-4.56	13.42	3	Horizontal	319	1.43	-								
PK	11.65684G	62.48	74.00	-11.52	13.42	3	Horizontal	319	1.43	-								

802.11n HT40_Nss1,(MCS0)_3TX

29/11/2018

5190MHz_TX

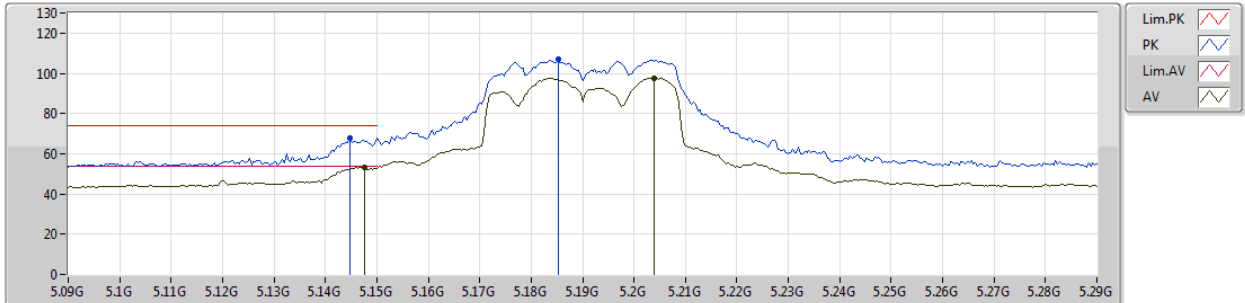


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.15G	46.47	54.00	-7.53	2.74	3	Vertical	133	1.62	-
AV	5.2004G	94.44	Inf	-Inf	2.80	3	Vertical	133	1.62	-
PK	5.1444G	58.85	74.00	-15.15	2.74	3	Vertical	133	1.62	-
PK	5.1988G	103.67	Inf	-Inf	2.80	3	Vertical	133	1.62	-

802.11n HT40_Nss1,(MCS0)_3TX

29/11/2018

5190MHz_TX

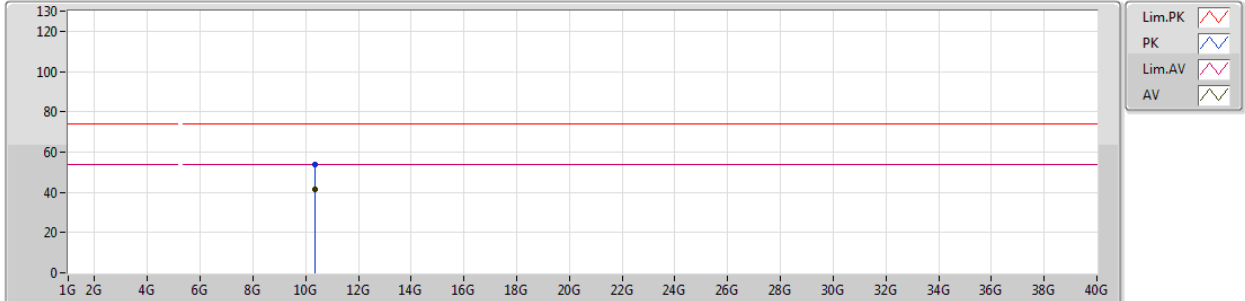


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1476G	53.31	54.00	-0.69	2.74	3	Horizontal	335	1.48	-
AV	5.204G	97.78	Inf	-Inf	2.80	3	Horizontal	335	1.48	-
PK	5.1448G	67.79	74.00	-6.21	2.74	3	Horizontal	335	1.48	-
PK	5.1852G	107.22	Inf	-Inf	2.78	3	Horizontal	335	1.48	-

802.11n HT40_Nss1,(MCS0)_3TX

29/11/2018

5190MHz_TX

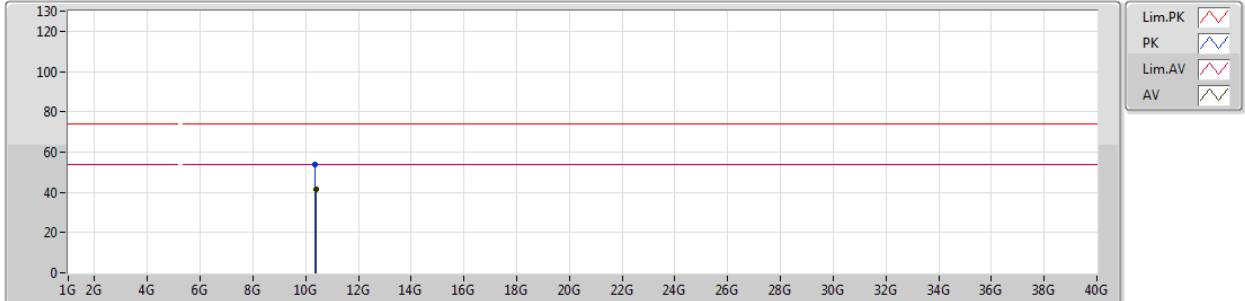


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.37574G	41.65	54.00	-12.35	12.67	3	Vertical	25	1.50	-								
PK	10.37208G	53.62	74.00	-20.38	12.66	3	Vertical	25	1.50	-								

802.11n HT40_Nss1,(MCS0)_3TX

29/11/2018

5190MHz_TX

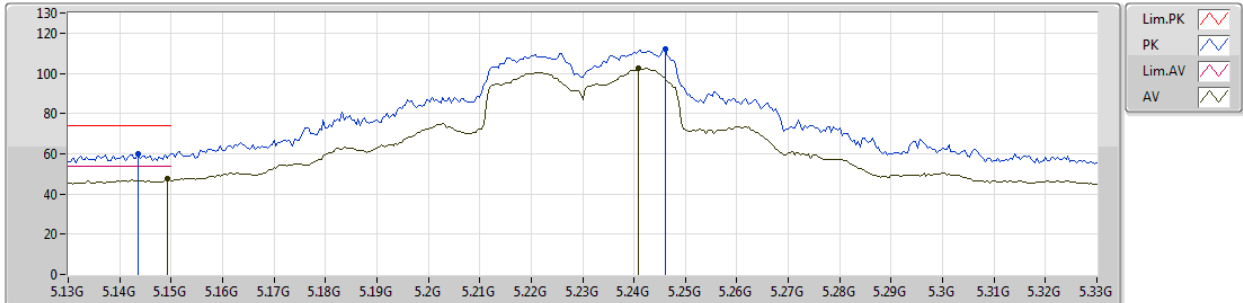


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	10.38744G	41.74	54.00	-12.26	12.69	3	Horizontal	76	1.50	-								
PK	10.37412G	53.94	74.00	-20.06	12.66	3	Horizontal	76	1.50	-								

802.11n HT40_Nss1,(MCS0)_3TX

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5230MHz_TX

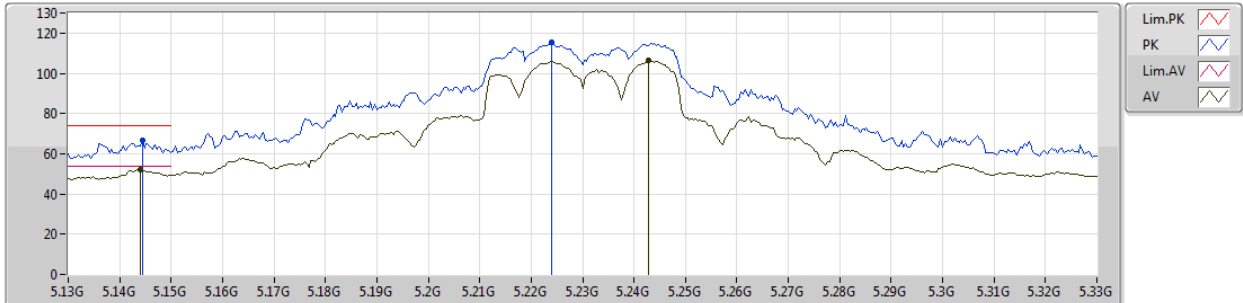


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1492G	47.67	54.00	-6.33	2.74	3	Vertical	58	1.60	-
AV	5.2408G	102.45	Inf	-Inf	2.84	3	Vertical	58	1.60	-
PK	5.1436G	59.97	74.00	-14.03	2.74	3	Vertical	58	1.60	-
PK	5.246G	111.83	Inf	-Inf	2.85	3	Vertical	58	1.60	-

802.11n HT40_Nss1,(MCS0)_3TX

27/11/2018

5230MHz_TX

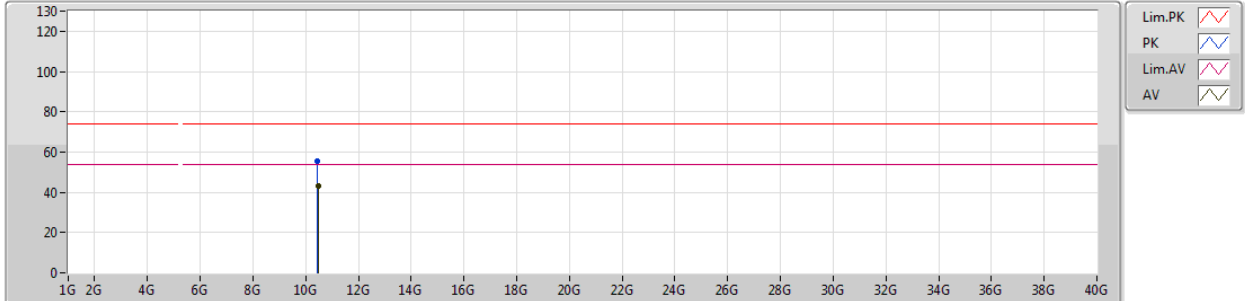


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.144G	51.96	54.00	-2.04	2.74	3	Horizontal	342	1.52	-
AV	5.2428G	106.23	Inf	-Inf	2.85	3	Horizontal	342	1.52	-
PK	5.1444G	66.53	74.00	-7.47	2.74	3	Horizontal	342	1.52	-
PK	5.224G	115.17	Inf	-Inf	2.83	3	Horizontal	342	1.52	-

802.11n HT40_Nss1,(MCS0)_3TX

27/11/2018

5230MHz_TX

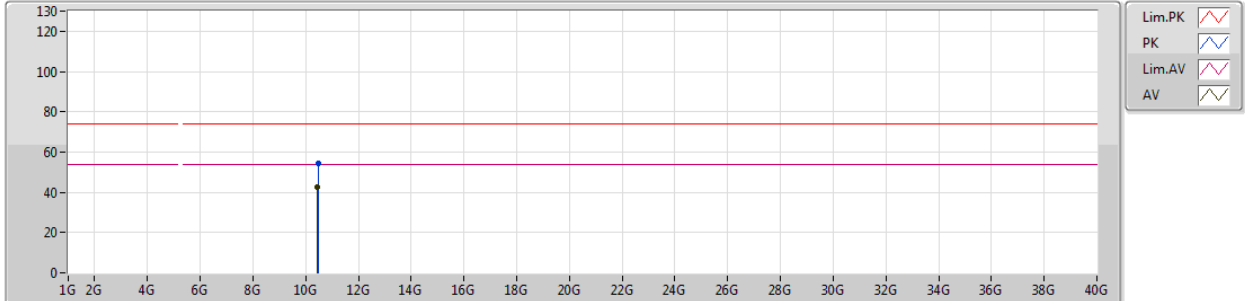


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments							
AV	10.4618G	43.40	54.00	-10.60	12.86	3	Vertical	272	1.50	-							
PK	10.45172G	55.58	74.00	-18.42	12.83	3	Vertical	272	1.50	-							

802.11n HT40_Nss1,(MCS0)_3TX

27/11/2018

5230MHz_TX

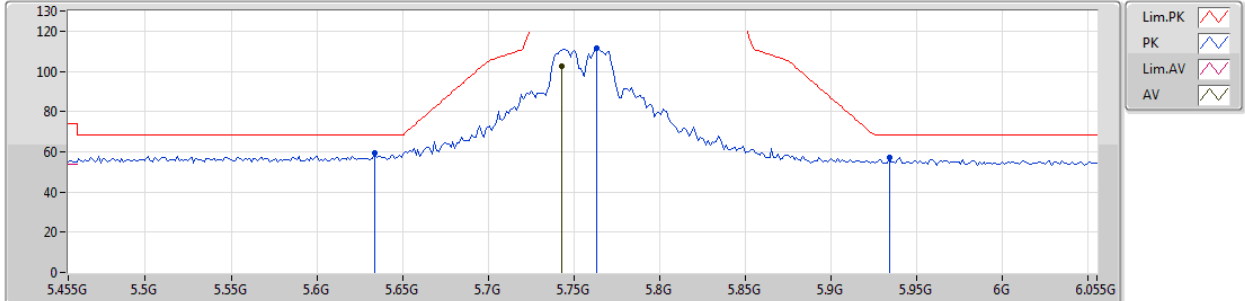


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.45016G	42.63	54.00	-11.37	12.83	3	Horizontal	293	1.67	-
PK	10.4633G	54.60	74.00	-19.40	12.86	3	Horizontal	293	1.67	-

802.11n HT40_Nss1,(MCS0)_3TX

29/11/2018

5755MHz_TX

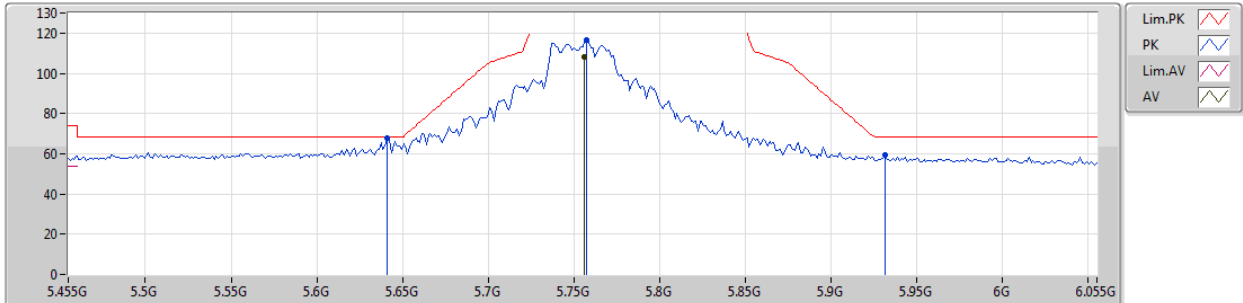


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.743G	102.77	Inf	-Inf	3.62	3	Vertical	161	1.42	-
PK	5.6338G	59.15	68.20	-9.05	3.41	3	Vertical	161	1.42	-
PK	5.7634G	111.26	Inf	-Inf	3.66	3	Vertical	161	1.42	-
PK	5.9338G	57.19	68.20	-11.01	4.00	3	Vertical	161	1.42	-

802.11n HT40_Nss1,(MCS0)_3TX

29/11/2018

5755MHz_TX

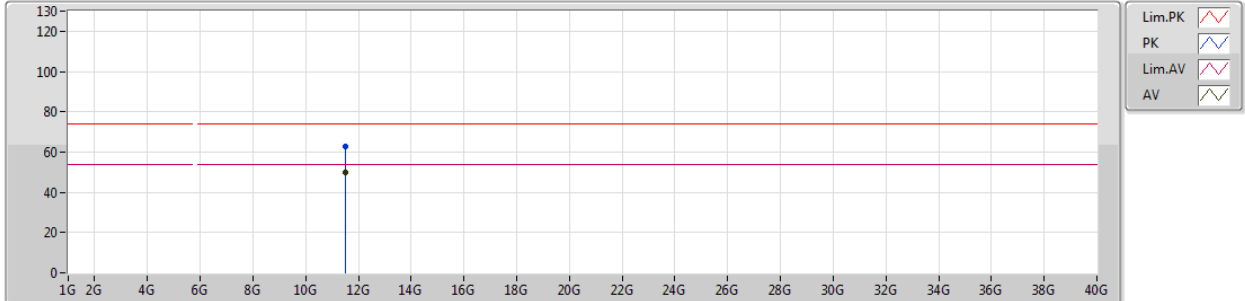


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7562G	108.14	Inf	-Inf	3.65	3	Horizontal	352	2.32	-
PK	5.641G	67.63	68.20	-0.57	3.43	3	Horizontal	352	2.32	-
PK	5.7574G	116.30	Inf	-Inf	3.65	3	Horizontal	352	2.32	-
PK	5.9314G	59.36	68.20	-8.84	3.99	3	Horizontal	352	2.32	-

802.11n HT40_Nss1,(MCS0)_3TX

29/11/2018

5755MHz_TX

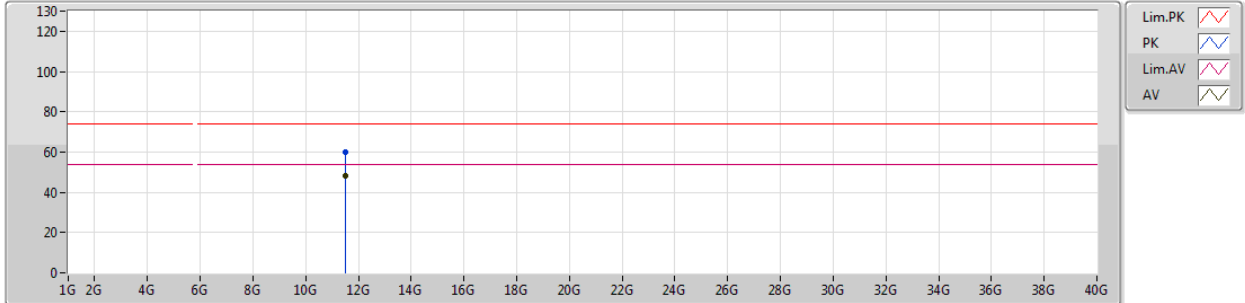


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.5157G	50.14	54.00	-3.86	13.55	3	Vertical	225	1.47	-
PK	11.49638G	62.73	74.00	-11.27	13.58	3	Vertical	225	1.47	-

802.11n HT40_Nss1,(MCS0)_3TX

29/11/2018

5755MHz_TX

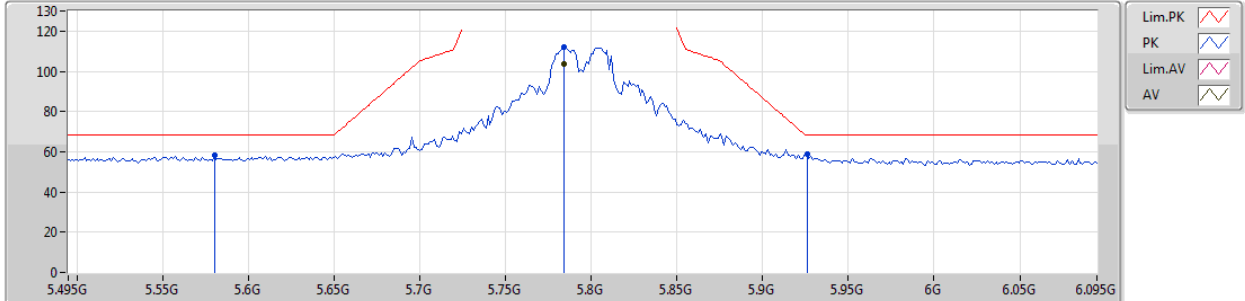


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.51744G	48.02	54.00	-5.98	13.55	3	Horizontal	284	1.78	-
PK	11.51558G	60.10	74.00	-13.90	13.55	3	Horizontal	284	1.78	-

802.11n HT40_Nss1,(MCS0)_3TX

27/11/2018

5795MHz_TX

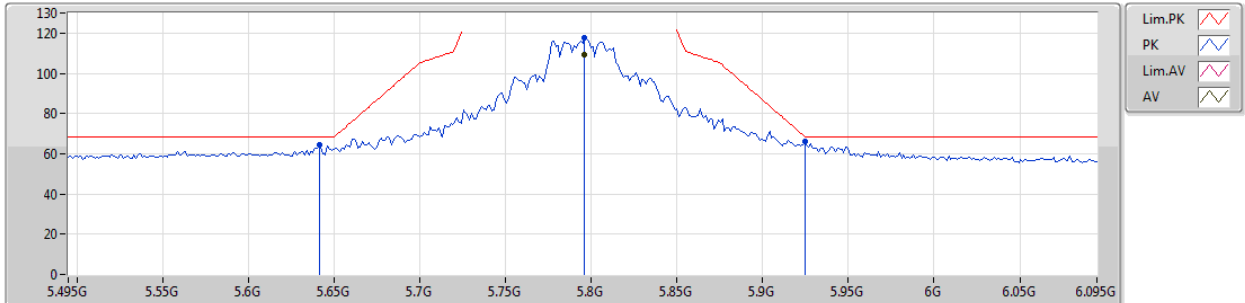


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7842G	103.43	Inf	-Inf	3.70	3	Vertical	171	1.54	-
PK	5.5802G	58.12	68.20	-10.08	3.30	3	Vertical	171	1.54	-
PK	5.7842G	112.02	Inf	-Inf	3.70	3	Vertical	171	1.54	-
PK	5.9258G	58.96	68.20	-9.24	3.99	3	Vertical	171	1.54	-

802.11n HT40_Nss1,(MCS0)_3TX

27/11/2018

5795MHz_TX

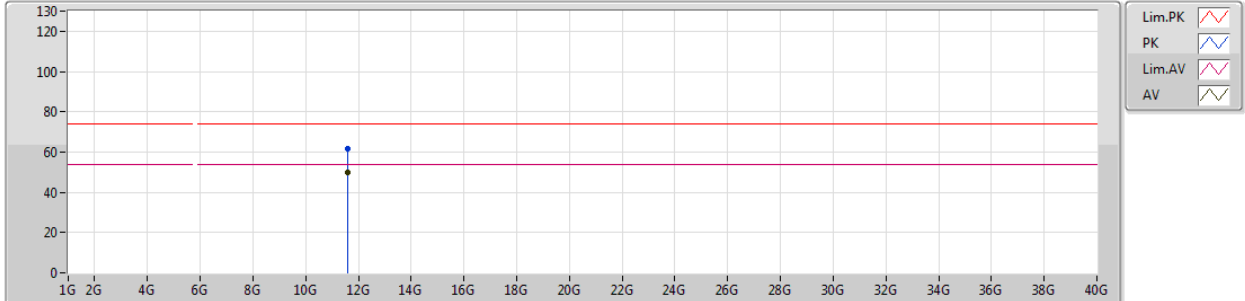


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.7962G	109.32	Inf	-Inf	3.72	3	Horizontal	1	2.07	-
PK	5.6414G	64.33	68.20	-3.87	3.43	3	Horizontal	1	2.07	-
PK	5.7962G	117.40	Inf	-Inf	3.72	3	Horizontal	1	2.07	-
PK	5.9246G	66.31	68.50	-2.19	3.98	3	Horizontal	1	2.07	-

802.11n HT40_Nss1,(MCS0)_3TX

27/11/2018

5795MHz_TX

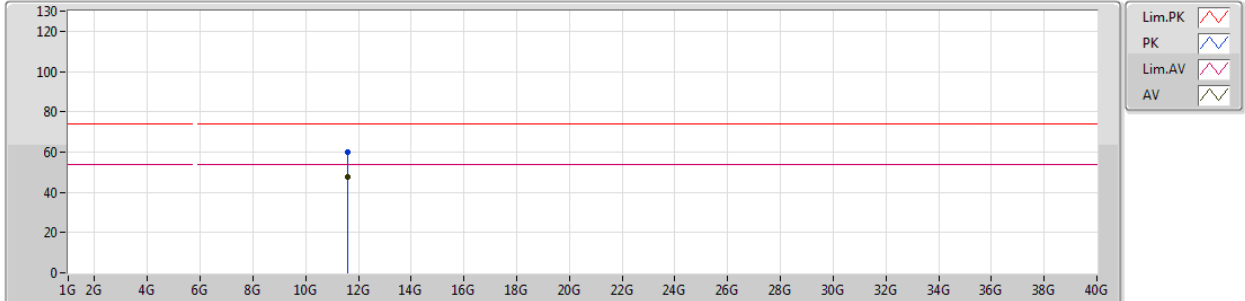


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.59606G	49.99	54.00	-4.01	13.49	3	Vertical	264	1.48	-								
PK	11.5948G	61.38	74.00	-12.62	13.49	3	Vertical	264	1.48	-								

802.11n HT40_Nss1,(MCS0)_3TX

27/11/2018

5795MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	11.59606G	47.53	54.00	-6.47	13.49	3	Horizontal	290	1.87	-								
PK	11.59468G	60.07	74.00	-13.93	13.49	3	Horizontal	290	1.87	-								