



FCC Test Report

Equipment : Set top box
Brand Name : DIRECTV
Model No. : C71KW-200
FCC ID : A3LC71KW-200
Standard : 47 CFR FCC Part 15.407
Operating Band : 5150 MHz – 5250 MHz
5250 MHz – 5350 MHz
5470 MHz – 5725 MHz
5725 MHz – 5850 MHz
Applicant : Samsung Electronics Co Ltd
19 Chapin Rd., Building D Pine Brook, NJ 07058
Manufacturer : Calcomp public company limited
(Branch 00002) 138 MOO 4, PETCHKASEM ROAD,
SAPANG, KOAW-YOI, PETCHBURI, Thailand 76140
Function : ☐ Outdoor; ☒ Indoor; ☐ Fixed P2P
☒ Client
TPC Function : ☒ With TPC ☐ Without TPC

The product sample received on Jul. 19, 2017 and completely tested on Oct. 12, 2017. We, SPORTON, 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 test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.


Cliff Chang
SPORTON INTERNATIONAL INC.



Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Testing Applied Standards	9
1.3	Testing Location Information	9
1.4	Measurement Uncertainty	9
2	TEST CONFIGURATION OF EUT	10
2.1	Test Channel Mode	10
2.2	The Worst Case Measurement Configuration.....	13
2.3	EUT Operation during Test	15
2.4	Accessories	16
2.5	Support Equipment.....	16
2.6	Test Setup Diagram	18
3	TRANSMITTER TEST RESULT	21
3.1	AC Power-line Conducted Emissions	21
3.2	Emission Bandwidth	23
3.3	Maximum Conducted Output Power	24
3.4	Peak Power Spectral Density.....	26
3.5	Unwanted Emissions.....	29
3.6	Frequency Stability.....	33
4	TEST EQUIPMENT AND CALIBRATION DATA	34
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS		
APPENDIX B. TEST RESULTS OF EMISSION BANDWIDTH		
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER		
APPENDIX D. TEST RESULTS OF PEAK POWER SPECTRAL DENSITY		
APPENDIX E. TEST RESULTS OF UNWANTED EMISSIONS		
APPENDIX F. TEST RESULTS OF FREQUENCY STABILITY		
APPENDIX G. TEST PHOTOS		
PHOTOGRAPHS OF EUT V01		



Summary of Test Result

Conformance Test Specifications			
Report Clause	Ref. Std. Clause	Description	Result
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.207	AC Power-line Conducted Emissions	Complied
3.2	15.407(a)	Emission Bandwidth	Complied
3.3	15.407(a)	Maximum Conducted Output Power	Complied
3.4	15.407(a)	Peak Power Spectral Density	Complied
3.5	15.407(b)	Unwanted Emissions	Complied
3.6	15.407(g)	Frequency Stability	Complied



SPORTON INTERNATIONAL INC.
TEL : 886-3-3273456
FAX : 886-3-3270973
FCC ID: A3LC71KW-200

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), ac (VHT20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [6]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5690	106-138 [3]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.15-5.25GHz	802.11n HT20	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.15-5.25GHz	802.11n HT40	40	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.25-5.35GHz	802.11a	20	4TX
5.25-5.35GHz	802.11n HT20	20	4TX
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.25-5.35GHz	802.11ac VHT20-BF	20	4TX
5.25-5.35GHz	802.11n HT40	40	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT80	80	4TX

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ac VHT80-BF	80	4TX
5.47-5.725GHz	802.11a	20	4TX
5.47-5.725GHz	802.11n HT20	20	4TX
5.47-5.725GHz	802.11ac VHT20	20	4TX
5.47-5.725GHz	802.11ac VHT20-BF	20	4TX
5.47-5.725GHz	802.11n HT40	40	4TX
5.47-5.725GHz	802.11ac VHT40	40	4TX
5.47-5.725GHz	802.11ac VHT40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT80	80	4TX
5.47-5.725GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11a	20	4TX
5.725-5.85GHz	802.11n HT20	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11n HT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 and VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Airgain	N2425DSA7	PCB Antenna	I-PEX	Note 1
2	Airgain	N2425DSB6	PCB Antenna	I-PEX	
3	Airgain	N2425DSC6	PCB Antenna	I-PEX	
4	Airgain	N2425DSD7	PCB Antenna	I-PEX	

Note 1:

Frequency	Max Gain				Max DG			
	Ant. 1	Ant. 2	Ant. 3	Ant. 4	4T1S	4T2S	4T3S	4T4S
2410 MHz	2.34	2.40	4.19	3.18	6.75	3.78	2.31	0.93
2440 MHz	2.77	2.23	3.78	3.04	7.04	4.05	2.67	1.15
2460 MHz	3.03	2.21	3.75	3.22	7.11	4.10	2.81	1.11

Frequency	Max Gain				Max DG			
	Ant. 1	Ant. 2	Ant. 3	Ant. 4	4T1S	4T2S	4T3S	4T4S
5200 MHz	4.22	2.27	4.05	3.26	7.72	4.83	4.04	1.87
5600 MHz	4.91	3.56	3.23	3.49	7.92	4.92	3.91	2.06
5800 MHz	4.88	3.31	3.36	3.01	7.38	4.50	3.76	1.71

Note 2:

Ant. 1(Port 1), Ant. 2(Port 2), Ant. 3(Port 3) and Ant. 4(Port 4) can be used as transmitting/receiving antenna.
Ant. 1(Port 1), Ant. 2(Port 2), Ant. 3(Port 3) and Ant. 4(Port 4) could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.992	0.035	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT20	0.977	0.101	1.925m	1k
802.11ac VHT20-BF	0.938	0.278	3.839m	300
802.11ac VHT40	0.913	0.395	3.686m	300
802.11ac VHT40-BF	0.81	0.915	3.686m	300
802.11ac VHT80	0.907	0.424	446.25u	3k
802.11ac VHT80-BF	0.902	0.448	5.078m	300

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming for 802.11ac in 2.4GHz/5GHz	☐	Without beamforming
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz

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
- ◆ FCC KDB 789033 D02 v01r04
- ◆ FCC KDB 644545 D03 v01
- ◆ FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

Testing Location				
☐	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.	TEL : 886-3-327-3456	FAX : 886-3-318-0055
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.	TEL : 886-3-656-9065	FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Serway Li	26°C / 62%	Sep. 09, 2017~Oct. 12, 2017
Radiated	03CH01-CB	Mason Chen / Paul Chen Jay Luo / Justin Lin	25°C / 49%	Jul. 19, 2017~Sep. 21, 2017
AC Conduction	CO01-CB	Peter Wu	26°C / 61%	Sep. 25, 2017

Test site Designation No. TW0006 with FCC
Test site registered number IC 4086D with Industry Canada.

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)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74 x10 ⁻⁸	Confidence levels of 95%
Frequency Stability	6.06 x10 ⁻⁸	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

For Master Mode Band 1~4 and Client Mode Band 2~4:

Mode	Power Setting
802.11a_(6Mbps)_4TX	-
5180MHz	76
5200MHz	92
5240MHz	91
5260MHz	68
5300MHz	67
5320MHz	68
5500MHz	70
5580MHz	69
5700MHz	67
5720MHz Straddle 5.47-5.725GHz	67
5720MHz Straddle 5.725-5.85GHz	67
5745MHz	97
5785MHz	97
5825MHz	94
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5180MHz	80
5200MHz	93
5240MHz	92
5260MHz	69
5300MHz	68
5320MHz	69
5500MHz	71
5580MHz	69
5700MHz	69
5720MHz Straddle 5.47-5.725GHz	69
5720MHz Straddle 5.725-5.85GHz	69
5745MHz	97
5785MHz	97
5825MHz	93
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5190MHz	64
5230MHz	90
5270MHz	72
5310MHz	63
5510MHz	65
5550MHz	72



Mode	Power Setting
5670MHz	72
5710MHz Straddle 5.47-5.725GHz	75
5710MHz Straddle 5.725-5.85GHz	75
5755MHz	94
5795MHz	95
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5210MHz	61
5290MHz	61
5530MHz	61
5610MHz	74
5690MHz Straddle 5.47-5.725GHz	74
5690MHz Straddle 5.725-5.85GHz	74
5775MHz	85
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
5180MHz	80
5200MHz	83
5240MHz	83
5260MHz	62
5300MHz	61
5320MHz	59
5500MHz	60
5580MHz	60
5700MHz	61
5720MHz Straddle 5.47-5.725GHz	63
5720MHz Straddle 5.725-5.85GHz	63
5745MHz	93
5785MHz	94
5825MHz	94
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
5190MHz	60
5230MHz	81
5270MHz	60
5310MHz	59
5510MHz	60
5550MHz	60
5670MHz	60
5710MHz Straddle 5.47-5.725GHz	64
5710MHz Straddle 5.725-5.85GHz	64
5755MHz	92
5795MHz	93
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-
5210MHz	62



Mode	Power Setting
5290MHz	60
5530MHz	60
5610MHz	61
5690MHz Straddle 5.47-5.725GHz	64
5690MHz Straddle 5.725-5.85GHz	64
5775MHz	80

For Client Mode Band 1:

Mode	Power Setting
802.11a_(6Mbps)_4TX	-
5180MHz	68
5200MHz	67
5240MHz	66
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5180MHz	69
5200MHz	68
5240MHz	67
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5190MHz	64
5230MHz	71
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5210MHz	61
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
5180MHz	57
5200MHz	57
5240MHz	57
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
5190MHz	56
5230MHz	56
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-
5210MHz	56

Note:

- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
- ♦ There are two modes of EUT for 802.11ac in 2.4GHz/5GHz. One is beamforming mode, and the other is non-beamforming mode. Both modes have been tested and recorded in this test report.

2.2 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	CTX - 2.4GHz
2	CTX - 5GHz
For operating mode 2 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density Frequency Stability
Test Condition	Conducted measurement at transmit chains
Test Mode	1 Master Mode Band 1~4 and Client Mode Band 2~4
	2 Client Mode Band 1

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	CTX - 2.4GHz - in Z axis
2	CTX - 2.4GHz - in Y axis
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	CTX - 5GHz - in Y axis
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed in Z axis and Y axis position. The worst case was found in Y axis, so it was selected to perform test and its test result was written in the report.	
1	CTX - EUT in Y axis.



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	Bluetooth + WLAN 2.4GHz
2	Bluetooth + WLAN 5GHz
Refer to Sporton Test Report No.: FA772025 for Co-location RF Exposure Evaluation.	

Note: Adapter information as below:

The EUT was powered by Adapter, and the Adapter was for measurement only, would not be marked.

Support Unit	Brand Name	Model Name
Adapter	DIRECTV	EPS10R4-08



2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under ttermpro.
3. Executed "iperf" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

2.4 Accessories

N/A

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E6430	DoC
2	Flash disk3.0	Transcend	JetFlash-700	DoC
3	Test Fixture	NA	NA	NA
4	Adapter	DIRECTV	EPS10R4-08	Adapter

For Test Site No: 03CH01-CB (below 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	Test Fixture	NA	NA	NA
3	Adapter	DIRECTV	EPS10R4-08	Adapter

For Test Site No: 03CH01-CB (Above 1GHz)

For Non-Beamforming Mode

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	Test Fixture	NA	NA	NA
3	Adapter	DIRECTV	EPS10R4-08	Adapter

For Test Site No: 03CH01-CB (above 1GHz)

For Beamforming Mode

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E4300	DoC
2	RX Device	ASUS	RT-AC88U	MSQ-RTGW00
3	Test Fixture	NA	NA	NA
4	Adapter	DIRECTV	EPS10R4-08	Adapter



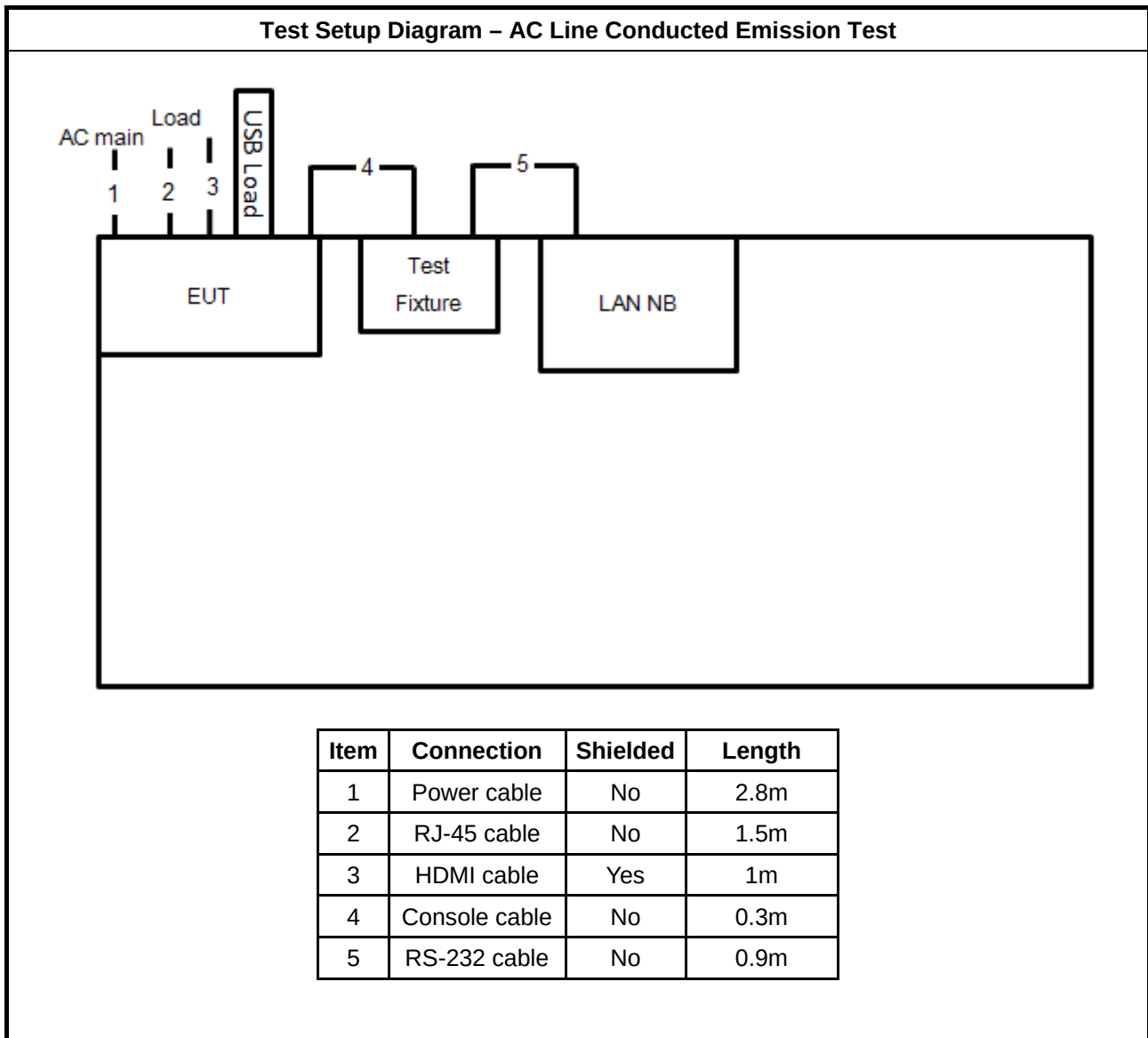
For Test Site No: TH01-CB
For Non-Beamforming Mode

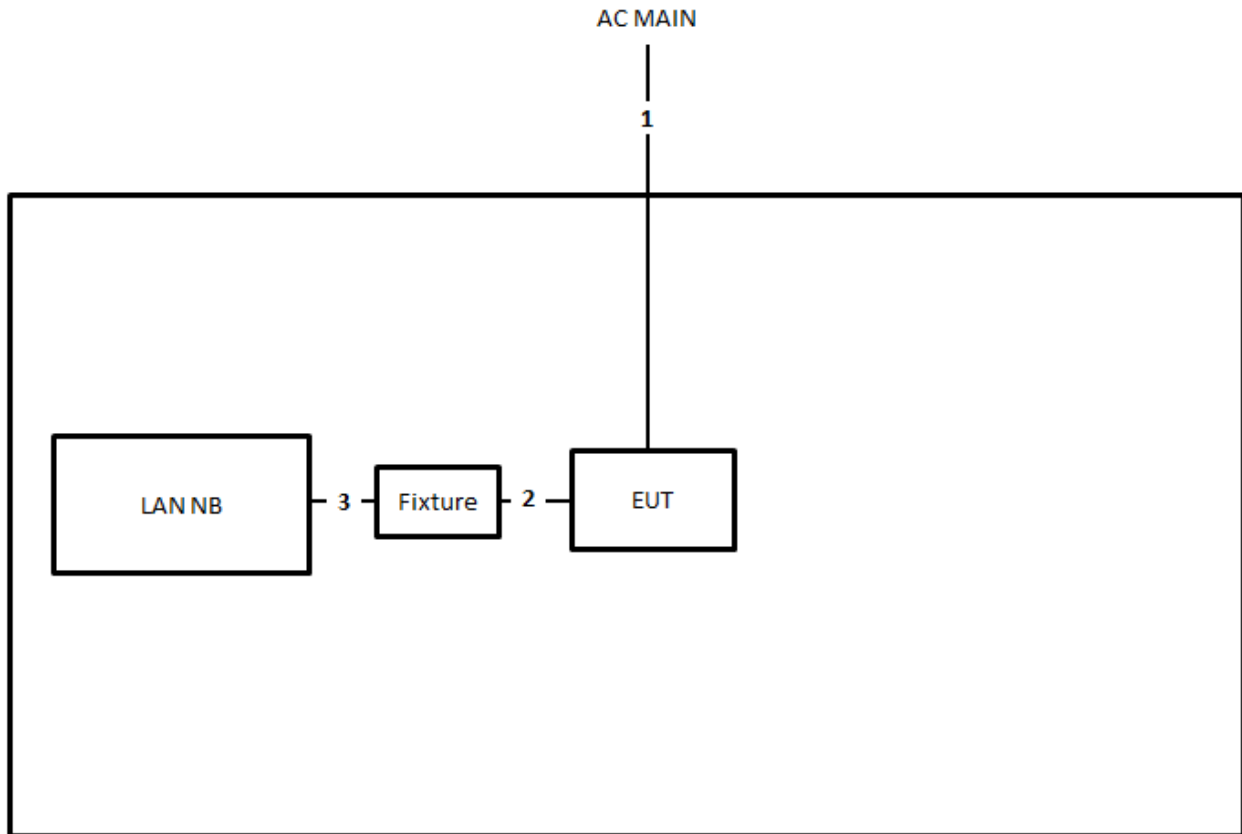
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	Test Fixture	NA	NA	NA
3	Adapter	DIRECTV	EPS10R4-08	NA

For Test Site No: TH01-CB
For Beamforming Mode

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	RX Device	ASUS	PCE-AC88	MSQ-PCIE0U00
3	PC	DELL	T3400	DoC
4	Test Fixture	NA	NA	NA
5	Adapter	DIRECTV	EPS10R4-08	NA

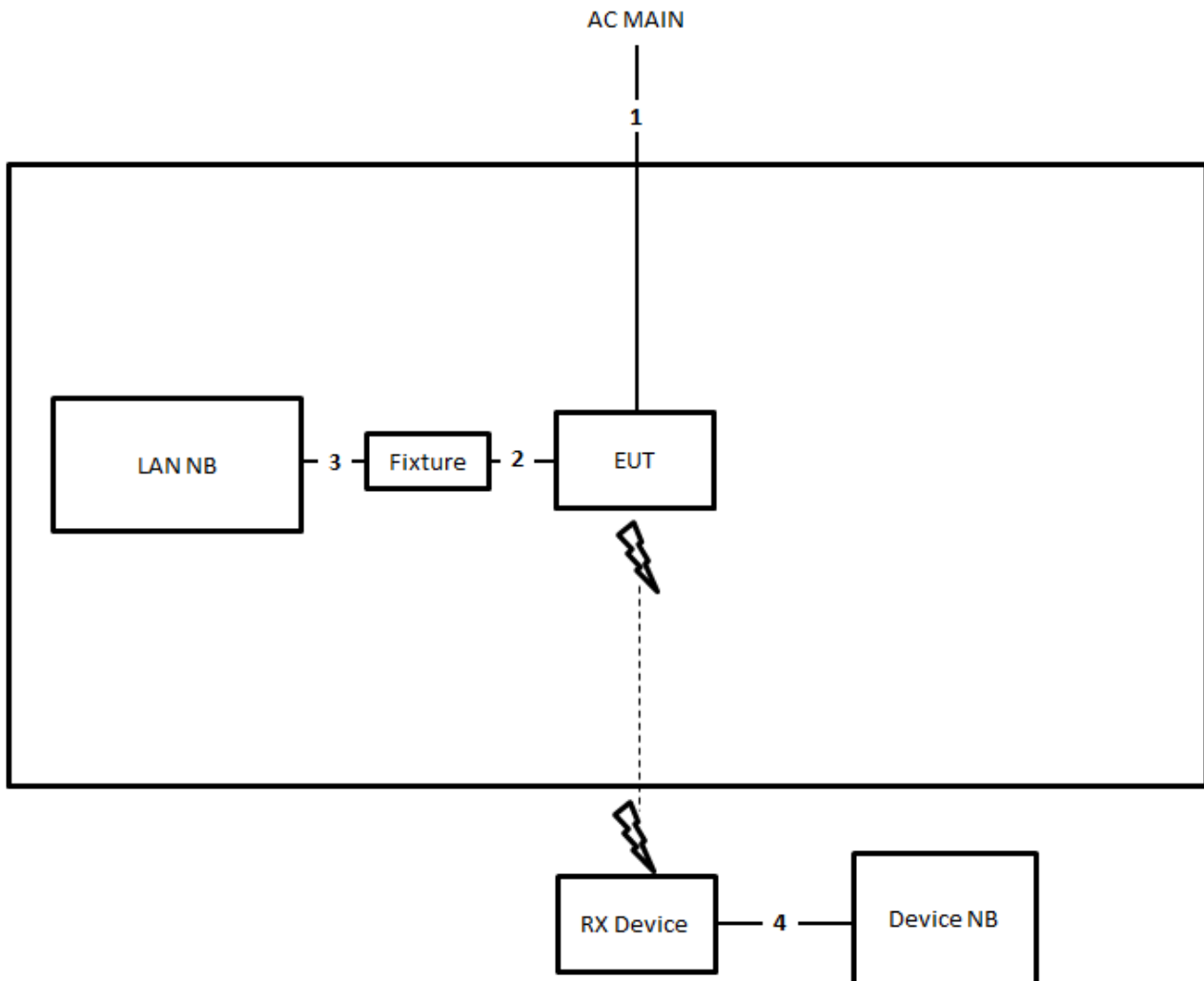
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test (1 GHz and Above 1GHz Non-beamforming Mode)


Item	Connection	Shielded	Length
1	Power cable	No	2.8m
2	Console cable	No	0.3m
3	RS-232 cable	No	1.8m

**Test Setup Diagram - Radiated Test > 1GHz
(Beamforming Mode)**



Item	Connection	Shielded	Length
1	Power cable	No	2.8m
2	Console cable	No	0.3m
3	RS-232 cable	No	1.8m
4	RJ-45 Cable	No	1.5m

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.

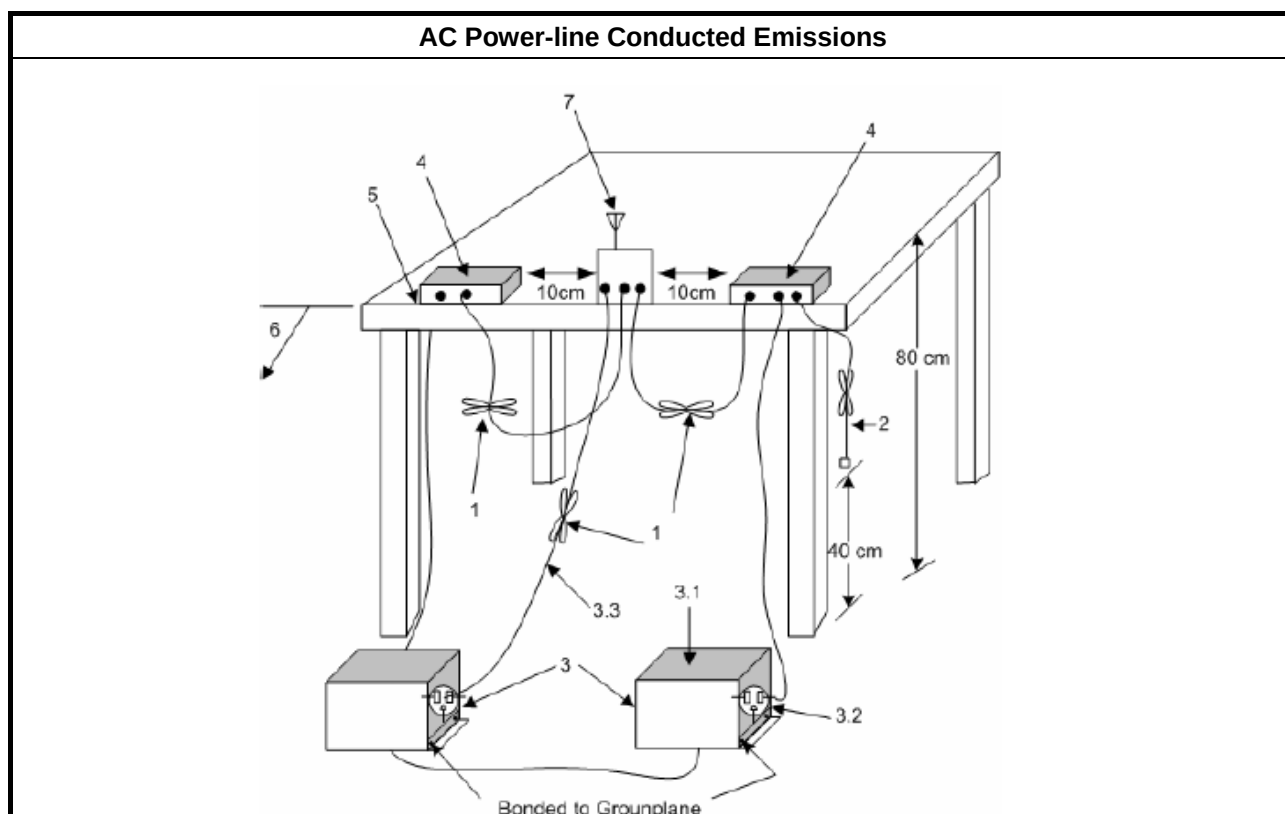
3.1.2 Measuring Instruments

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, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.
LE-LAN Devices	
☐	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

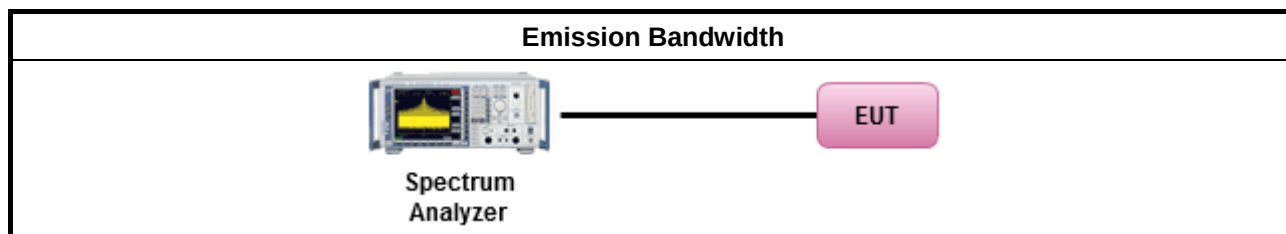
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☒	Refer as IC RSS-Gen, clause 4.6 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.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	
☐ For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
☐ 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

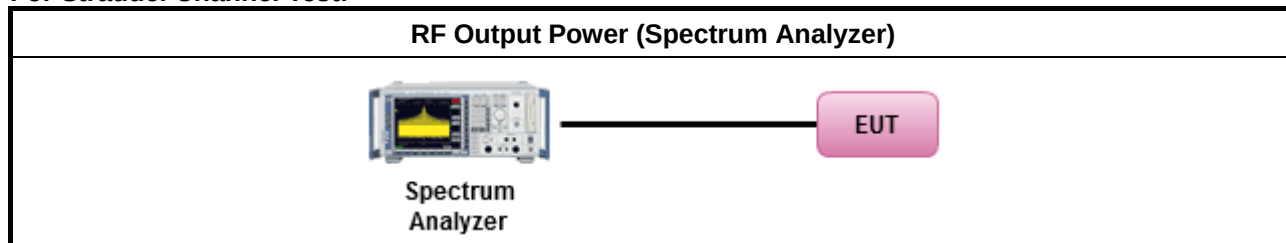
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

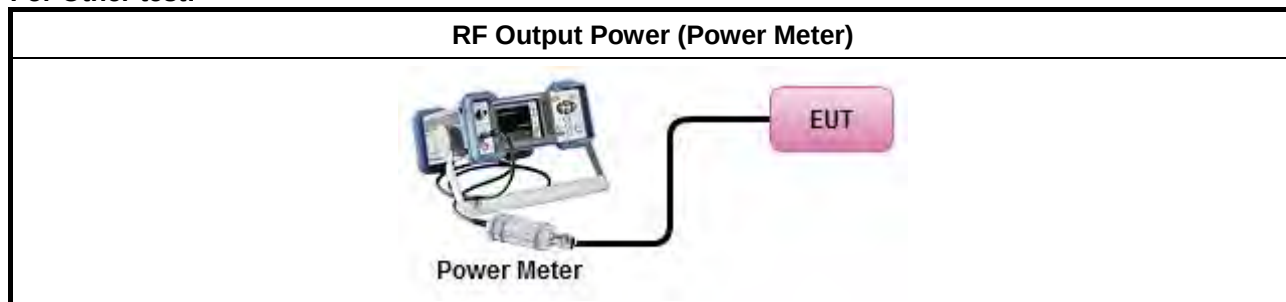
Test Method	
Maximum Conducted Output Power	
Average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
Wideband RF power meter and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC 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

For Straddle Channel Test:



For Other test:



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.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.	
	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.	
☐ 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 he 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.	

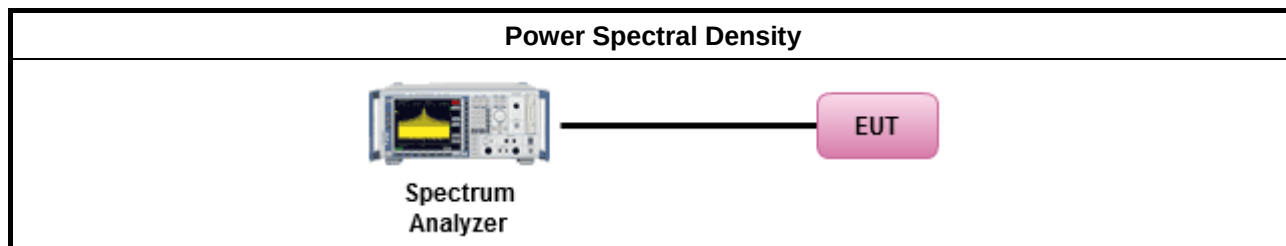
3.4.2 Measuring Instruments

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 FCC KDB 789033, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth [duty cycle ≥ 98% or external video / power trigger]	
☒ Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).	
☐ Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed) duty cycle < 98% and average over on/off periods with duty factor	
☒ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).	
☐ Refer as FCC 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:	
☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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.	
☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,	
☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.	
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	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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).

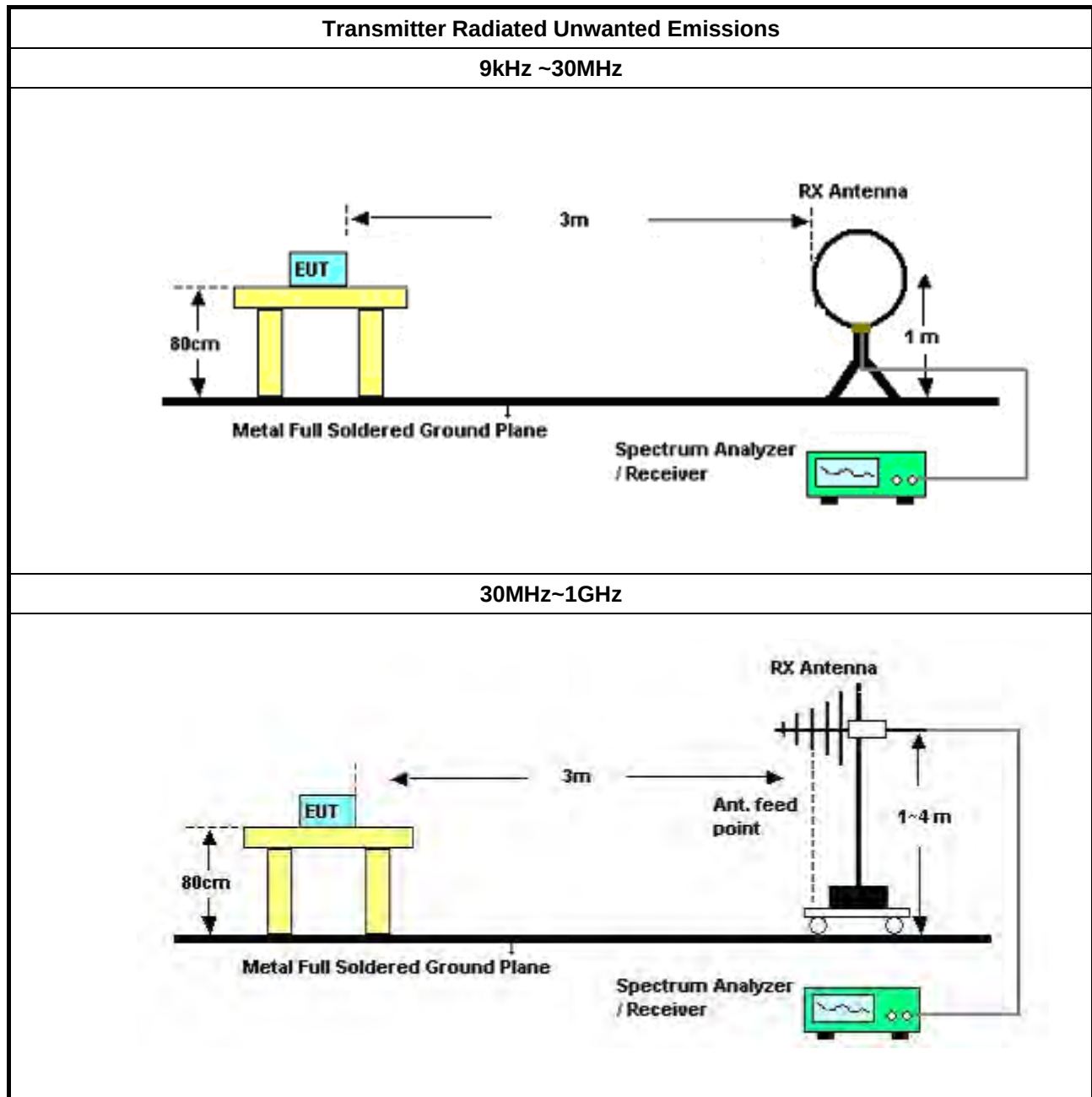
3.5.2 Measuring Instruments

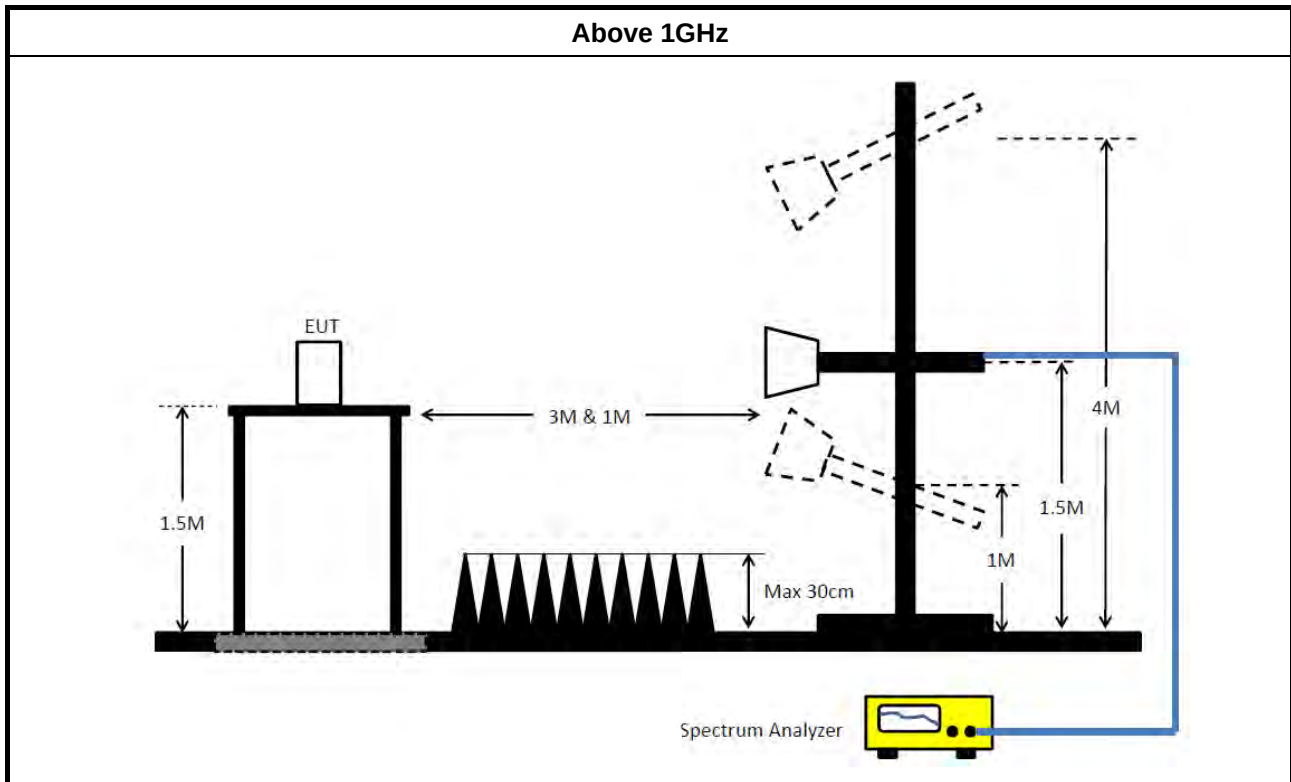
Refer a test equipment and calibration data table in this test report.

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 ≥ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.2 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)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Frequency Stability

3.6.1 Frequency Stability Limit

Frequency Stability Limit	
UNII Devices	
In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.	
LE-LAN Devices	
N/A	
IEEE Std. 802.11	
The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.	

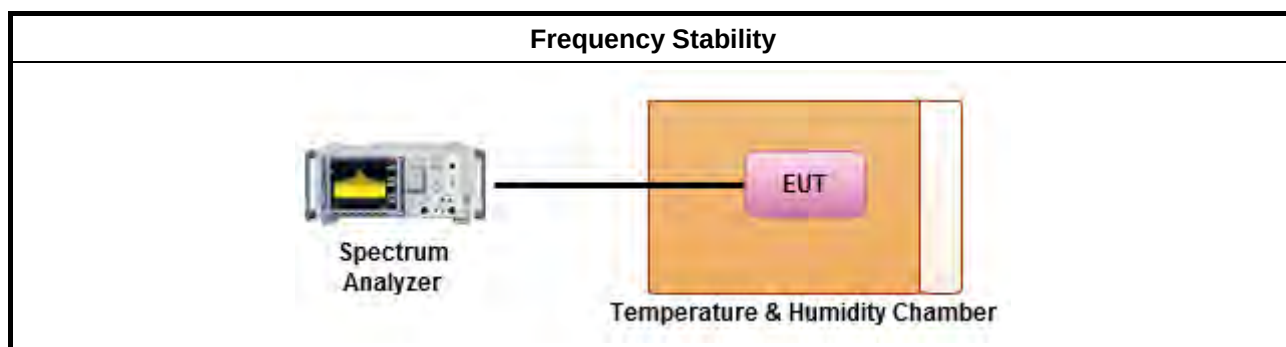
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method	
Refer as ANSI C63.10, clause 6.8 for frequency stability tests	
	Frequency stability with respect to ambient temperature
	Frequency stability when varying supply voltage
	Extreme temperature is 0°C~50°C.

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Jan. 22, 2018	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-5 0-16-2	04083	150kHz ~ 100MHz	Dec. 14, 2016	Dec. 13, 2017	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Dec. 20, 2017	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	May 22, 2018	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Mar. 15, 2018*	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMC	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2016	Aug. 29, 2017	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMC	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Nov. 09, 2017	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91702 52	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	May 01, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Jan. 15, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Nov. 21, 2017	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	May 05, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G# 1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G# 2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Dec. 25, 2017	Conducted (TH01-CB)



FCC Test Report

Report No. : FR772025AB

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2017	Jun. 01, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz –26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz –26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz –26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Nov. 21, 2017	Conducted (TH01-CB)

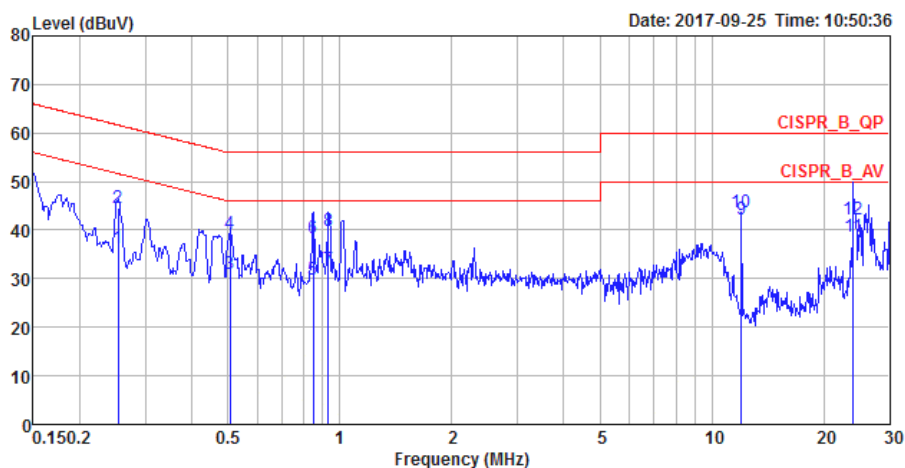
Note: Calibration Interval of instruments listed above is one year.

“*” Calibration Interval of instruments listed above is two years.

N.C.R. means Non-Calibration required.

AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Neutral
Operating Function	CTX		



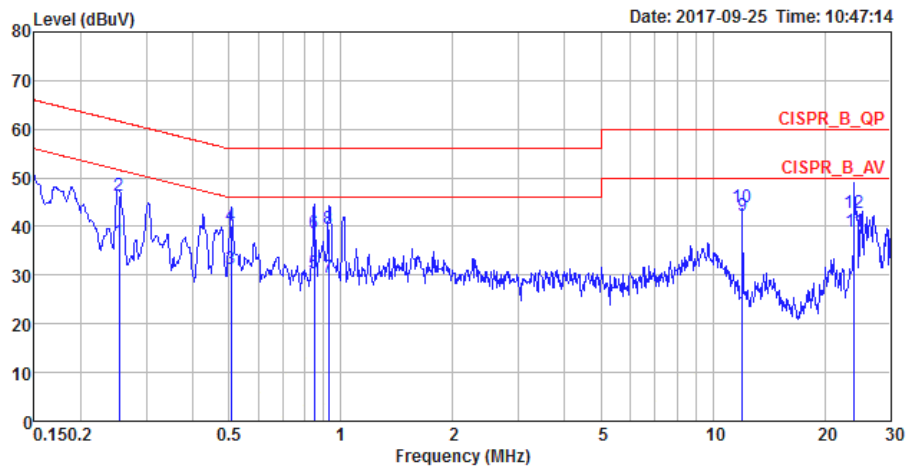
	Freq	Level	Over	Limit	Read	LISN	Cable	Remark	Pol/Phase
	MHz	dBuV	Limit	Line	Level	Factor	Loss		
			dB	dBuV	dBuV	dB	dB		
1	0.2535	36.16	-15.48	51.64	25.99	10.08	0.09	Average	NEUTRAL
2	0.2535	44.44	-17.20	61.64	34.27	10.08	0.09	QP	NEUTRAL
3	0.5074	31.08	-14.92	46.00	20.80	10.22	0.06	Average	NEUTRAL
4	0.5074	39.30	-16.70	56.00	29.02	10.22	0.06	QP	NEUTRAL
5	0.8483	29.96	-16.04	46.00	19.70	10.10	0.16	Average	NEUTRAL
6	0.8483	38.25	-17.75	56.00	27.99	10.10	0.16	QP	NEUTRAL
7	0.9331	31.84	-14.16	46.00	21.59	10.07	0.18	Average	NEUTRAL
8	0.9331	39.80	-16.20	56.00	29.55	10.07	0.18	QP	NEUTRAL
9	12.0012	42.13	-7.87	50.00	31.73	10.23	0.17	Average	NEUTRAL
10	12.0012	43.80	-16.20	60.00	33.40	10.23	0.17	QP	NEUTRAL
11	24.0018	38.65	-11.35	50.00	27.97	10.44	0.24	Average	NEUTRAL
12	24.0018	42.20	-17.80	60.00	31.52	10.44	0.24	QP	NEUTRAL

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	2	Power Phase	Line
Operating Function	CTX		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark	Pol/Phase
	MHz	dBuV	Limit	Line	Level	Factor	Loss		
			dB	dBuV	dBuV	dB	dB		
1	0.2535	36.95	-14.69	51.64	26.94	9.92	0.09	Average	LINE
2	0.2535	46.38	-15.26	61.64	36.37	9.92	0.09	QP	LINE
3	0.5074	31.40	-14.60	46.00	21.39	9.95	0.06	Average	LINE
4	0.5074	40.27	-15.73	56.00	30.26	9.95	0.06	QP	LINE
5	0.8483	30.46	-15.54	46.00	20.34	9.96	0.16	Average	LINE
6	0.8483	38.81	-17.19	56.00	28.69	9.96	0.16	QP	LINE
7	0.9282	29.56	-16.44	46.00	19.42	9.96	0.18	Average	LINE
8	0.9282	39.48	-16.52	56.00	29.34	9.96	0.18	QP	LINE
9	12.0012	42.15	-7.85	50.00	31.81	10.17	0.17	Average	LINE
10	12.0012	43.91	-16.09	60.00	33.57	10.17	0.17	QP	LINE
11	24.0020	38.84	-11.16	50.00	28.19	10.41	0.24	Average	LINE
12	24.0020	42.79	-17.21	60.00	32.14	10.41	0.24	QP	LINE

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.)



EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11a_(6Mbps)_4TX	-	-	-	-	-
5.15-5.25GHz	38.075M	17.541M	17M5D1D	21.4M	16.567M
5.25-5.35GHz	21.575M	16.617M	16M6D1D	21.375M	16.517M
5.47-5.725GHz	21.65M	16.617M	16M6D1D	15.645M	13.313M
5.725-5.85GHz	16.35M	28.186M	28M2D1D	3.08M	3.758M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	44.55M	19.165M	19M2D1D	22.025M	17.741M
5.25-5.35GHz	21.875M	17.766M	17M8D1D	21.35M	17.691M
5.47-5.725GHz	21.925M	17.791M	17M8D1D	15.705M	13.943M
5.725-5.85GHz	17.575M	30.835M	30M8D1D	3.7M	4.158M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	90.8M	36.882M	36M9D1D	39.7M	36.182M
5.25-5.35GHz	40.5M	36.282M	36M3D1D	39.65M	36.232M
5.47-5.725GHz	42.2M	36.332M	36M3D1D	34.93M	33.058M
5.725-5.85GHz	36.35M	59.67M	59M7D1D	3.08M	3.438M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	81.9M	75.862M	75M9D1D	81M	75.662M
5.25-5.35GHz	82M	75.762M	75M8D1D	81.1M	75.662M
5.47-5.725GHz	82.7M	75.962M	76M0D1D	75.675M	72.414M
5.725-5.85GHz	75.7M	76.162M	76M2D1D	2.98M	3.638M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	43.45M	19.09M	19M1D1D	24.35M	17.641M
5.25-5.35GHz	21.775M	17.766M	17M8D1D	21.075M	17.166M
5.47-5.725GHz	21.85M	17.891M	17M9D1D	15.435M	13.688M
5.725-5.85GHz	17.7M	25.112M	25M1D1D	3.78M	4.138M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	81M	36.832M	36M8D1D	39.25M	35.632M
5.25-5.35GHz	40.1M	36.332M	36M3D1D	39.5M	35.532M
5.47-5.725GHz	40.05M	36.332M	36M3D1D	34.545M	32.779M
5.725-5.85GHz	36.35M	52.574M	52M6D1D	3.08M	3.438M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	81.7M	75.762M	75M8D1D	80M	74.163M
5.25-5.35GHz	81.3M	76.362M	76M4D1D	80.4M	75.362M
5.47-5.725GHz	81.5M	76.362M	76M4D1D	75.075M	71.514M
5.725-5.85GHz	76.4M	76.462M	76M5D1D	3M	3.598M

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;



EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

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)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.65M	16.617M	21.65M	16.642M	21.625M	16.642M	21.4M	16.567M
5200MHz	Pass	Inf	36.825M	16.967M	37.9M	17.541M	36.95M	16.967M	34.65M	16.842M
5240MHz	Pass	Inf	35.725M	17.016M	38.075M	17.466M	35.575M	16.792M	33.1M	16.742M
5260MHz	Pass	Inf	21.4M	16.542M	21.575M	16.592M	21.575M	16.592M	21.45M	16.567M
5300MHz	Pass	Inf	21.4M	16.567M	21.55M	16.592M	21.5M	16.567M	21.375M	16.517M
5320MHz	Pass	Inf	21.425M	16.567M	21.575M	16.617M	21.425M	16.542M	21.475M	16.592M
5500MHz	Pass	Inf	21.35M	16.592M	21.55M	16.567M	21.65M	16.617M	21.375M	16.617M
5580MHz	Pass	Inf	21.45M	16.592M	21.6M	16.567M	21.625M	16.592M	21.35M	16.542M
5700MHz	Pass	Inf	21.425M	16.567M	21.5M	16.542M	21.575M	16.567M	21.475M	16.617M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.75M	13.328M	15.735M	13.343M	15.72M	13.343M	15.645M	13.313M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	3.778M	3.1M	3.838M	3.2M	3.758M	3.08M	3.818M
5745MHz	Pass	500k	16.325M	17.791M	16.275M	28.186M	16.3M	23.663M	16.325M	21.589M
5785MHz	Pass	500k	16.325M	18.166M	16.35M	27.661M	16.3M	22.739M	16.325M	20.315M
5825MHz	Pass	500k	16.325M	17.116M	16.3M	23.038M	16.325M	19.09M	16.325M	18.341M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	23.6M	17.741M	28.175M	17.791M	23.275M	17.791M	22.025M	17.791M
5200MHz	Pass	Inf	40.85M	18.116M	44.55M	19.165M	41M	18.166M	37.275M	18.016M
5240MHz	Pass	Inf	39.7M	18.091M	43.425M	18.691M	37.625M	18.066M	38.125M	17.916M
5260MHz	Pass	Inf	21.5M	17.691M	21.65M	17.766M	21.725M	17.766M	21.575M	17.716M
5300MHz	Pass	Inf	21.65M	17.741M	21.875M	17.741M	21.5M	17.716M	21.6M	17.766M
5320MHz	Pass	Inf	21.625M	17.766M	21.8M	17.741M	21.575M	17.766M	21.35M	17.766M
5500MHz	Pass	Inf	21.5M	17.716M	21.9M	17.766M	21.575M	17.741M	21.675M	17.766M
5580MHz	Pass	Inf	21.5M	17.766M	21.925M	17.766M	21.575M	17.741M	21.625M	17.791M
5700MHz	Pass	Inf	21.675M	17.741M	21.85M	17.791M	21.6M	17.741M	21.525M	17.741M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.705M	13.943M	15.9M	13.943M	15.795M	13.943M	15.795M	13.958M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.72M	4.158M	3.7M	4.198M	3.72M	4.178M	3.72M	4.198M
5745MHz	Pass	500k	17.55M	18.766M	17.55M	30.835M	17.525M	25.137M	17.575M	22.514M
5785MHz	Pass	500k	17.55M	18.916M	17.5M	29.21M	17.55M	25.112M	17.55M	23.188M
5825MHz	Pass	500k	17.55M	18.066M	17.55M	23.063M	17.55M	19.815M	17.55M	18.566M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.8M	36.232M	40.2M	36.232M	39.95M	36.282M	39.7M	36.182M
5230MHz	Pass	Inf	75.1M	36.432M	90.8M	36.882M	82.65M	36.582M	70.65M	36.432M
5270MHz	Pass	Inf	39.85M	36.232M	40.5M	36.232M	39.95M	36.232M	39.65M	36.282M
5310MHz	Pass	Inf	39.7M	36.282M	40.2M	36.282M	39.8M	36.232M	39.9M	36.232M
5510MHz	Pass	Inf	39.85M	36.232M	40.5M	36.182M	39.7M	36.282M	40.05M	36.282M
5550MHz	Pass	Inf	39.9M	36.332M	40.3M	36.282M	40M	36.282M	39.75M	36.282M
5670MHz	Pass	Inf	39.95M	36.232M	42.2M	36.282M	39.9M	36.282M	39.85M	36.182M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.14M	33.128M	39.235M	33.058M	34.93M	33.058M	35.105M	33.128M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	3.438M	3.1M	3.918M	3.08M	3.578M	3.1M	3.578M
5755MHz	Pass	500k	36.3M	36.732M	36.35M	58.421M	36.35M	40.43M	36.3M	38.531M
5795MHz	Pass	500k	36.3M	37.131M	36.3M	59.67M	36.3M	44.678M	36.05M	40.53M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-



EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

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)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5210MHz	Pass	Inf	81M	75.662M	81.9M	75.762M	81.3M	75.862M	81.1M	75.662M
5290MHz	Pass	Inf	81.1M	75.662M	82M	75.762M	81.6M	75.662M	81.6M	75.662M
5530MHz	Pass	Inf	81M	75.662M	81.9M	75.662M	81.4M	75.662M	81.2M	75.762M
5610MHz	Pass	Inf	81.4M	75.762M	82.7M	75.762M	81.9M	75.762M	81.6M	75.962M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.675M	72.489M	82.425M	72.414M	77.7M	72.639M	75.75M	72.489M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	2.98M	3.638M	3.06M	6.257M	3.08M	3.898M	3.08M	3.698M
5775MHz	Pass	500k	75.5M	75.562M	75.4M	76.162M	75.7M	75.862M	75.7M	75.962M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	37.375M	18.066M	27.15M	17.991M	25.65M	17.641M	30.85M	17.816M
5200MHz	Pass	Inf	43.45M	19.09M	27.975M	17.741M	24.825M	17.816M	41.175M	18.216M
5240MHz	Pass	Inf	41.575M	19.09M	34.35M	17.716M	24.35M	17.666M	41.35M	18.091M
5260MHz	Pass	Inf	21.775M	17.741M	21.775M	17.741M	21.55M	17.166M	21.725M	17.766M
5300MHz	Pass	Inf	21.625M	17.766M	21.675M	17.766M	21.3M	17.391M	21.65M	17.691M
5320MHz	Pass	Inf	21.65M	17.716M	21.65M	17.766M	21.075M	17.616M	21.45M	17.716M
5500MHz	Pass	Inf	21.7M	17.716M	21.175M	17.591M	21.7M	17.891M	21.225M	17.666M
5580MHz	Pass	Inf	21.1M	17.416M	21.85M	17.841M	21.3M	17.591M	21.625M	17.766M
5700MHz	Pass	Inf	21.575M	17.716M	21.325M	17.416M	21.85M	17.716M	21.725M	17.816M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.81M	14.123M	15.735M	13.943M	15.435M	13.688M	15.84M	14.138M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	4.218M	3.78M	4.178M	3.8M	4.138M	3.8M	4.298M
5745MHz	Pass	500k	17.55M	18.841M	17.025M	20.665M	16.275M	21.314M	16.425M	19.59M
5785MHz	Pass	500k	17.7M	20.365M	17.525M	23.138M	17.525M	25.112M	16.35M	22.564M
5825MHz	Pass	500k	17.575M	19.44M	16.975M	22.614M	15.925M	23.188M	17.55M	23.238M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.4M	35.832M	39.45M	35.832M	39.25M	35.632M	40.1M	36.282M
5230MHz	Pass	Inf	81M	36.832M	73.2M	36.282M	55.9M	35.682M	79.9M	36.582M
5270MHz	Pass	Inf	39.85M	36.082M	40M	36.332M	39.55M	35.532M	39.85M	36.232M
5310MHz	Pass	Inf	40.1M	36.232M	40.05M	36.282M	39.5M	36.332M	39.9M	36.132M
5510MHz	Pass	Inf	40.05M	36.182M	39.15M	36.182M	39.65M	36.232M	39.55M	35.182M
5550MHz	Pass	Inf	39.7M	36.182M	39.45M	35.982M	39.75M	35.932M	39.55M	35.732M
5670MHz	Pass	Inf	39.8M	36.332M	39.7M	36.132M	39.75M	36.182M	39.4M	36.082M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.035M	32.849M	34.545M	32.779M	35.385M	33.023M	35.105M	32.919M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	3.498M	3.14M	3.458M	3.1M	3.438M	3.1M	3.438M
5755MHz	Pass	500k	36.25M	37.031M	36.35M	52.574M	35.9M	46.477M	36M	41.529M
5795MHz	Pass	500k	35.7M	38.931M	36.3M	47.076M	35.75M	45.877M	32.5M	39.03M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	80.1M	74.263M	80.1M	74.163M	80M	75.062M	81.7M	75.762M
5290MHz	Pass	Inf	80.4M	75.362M	81M	76.362M	81.3M	75.762M	80.5M	75.562M
5530MHz	Pass	Inf	80.6M	75.062M	81M	75.862M	81.5M	75.262M	80.9M	75.762M
5610MHz	Pass	Inf	79.5M	71.664M	80.9M	76.162M	81.1M	76.362M	81.3M	73.763M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.075M	72.114M	76.05M	71.514M	75.6M	72.939M	75.3M	72.639M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	3.598M	3M	3.918M	3.08M	3.598M	3.1M	3.658M
5775MHz	Pass	500k	74.4M	75.962M	76.4M	76.462M	72.3M	71.664M	69.4M	73.763M

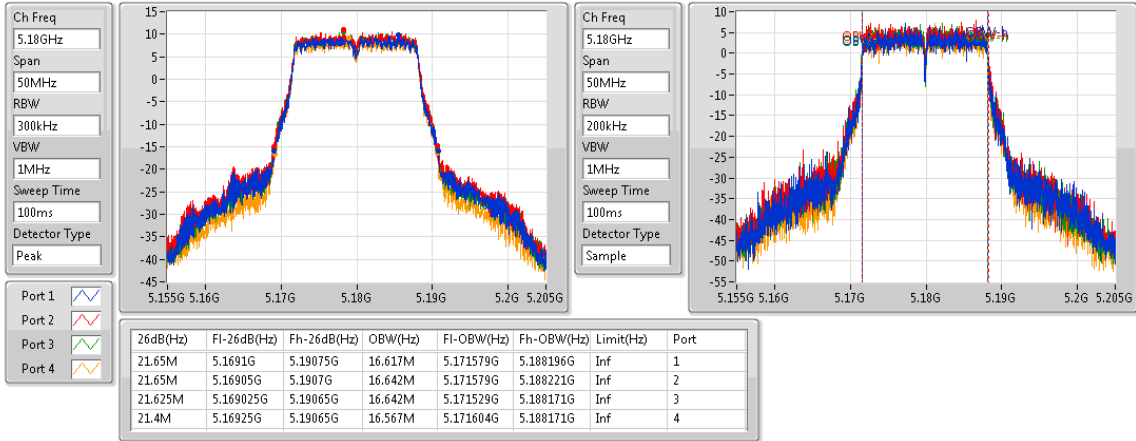
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

802.11a_(6Mbps)_4TX

EBW

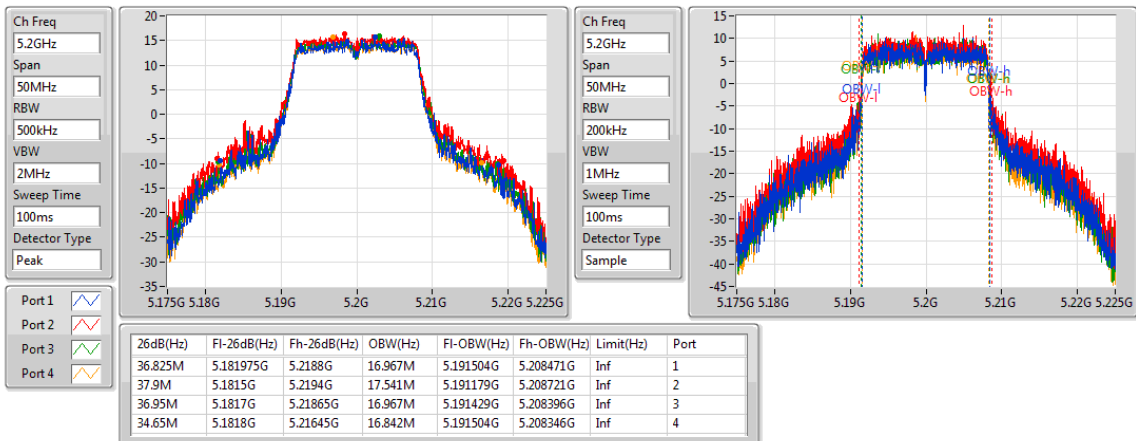
5180MHz



802.11a_(6Mbps)_4TX

EBW

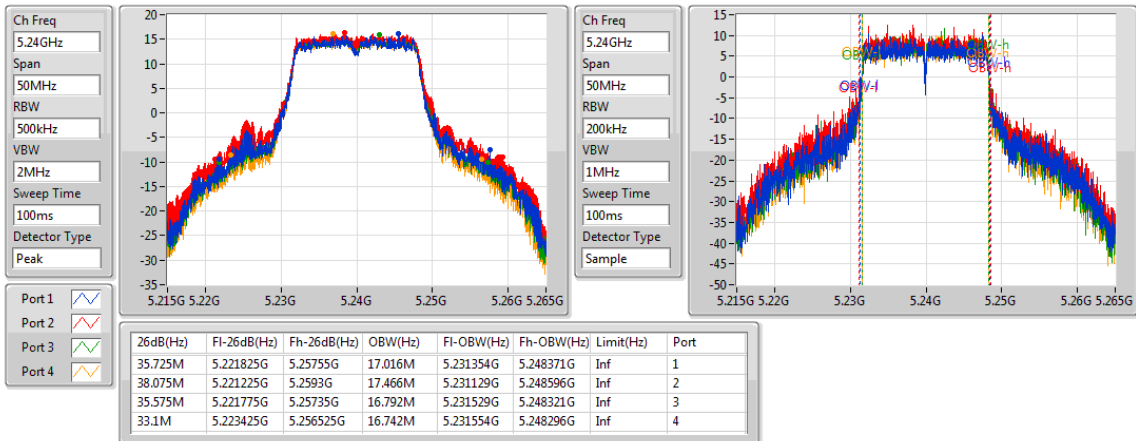
5200MHz



802.11a_(6Mbps)_4TX

EBW

5240MHz





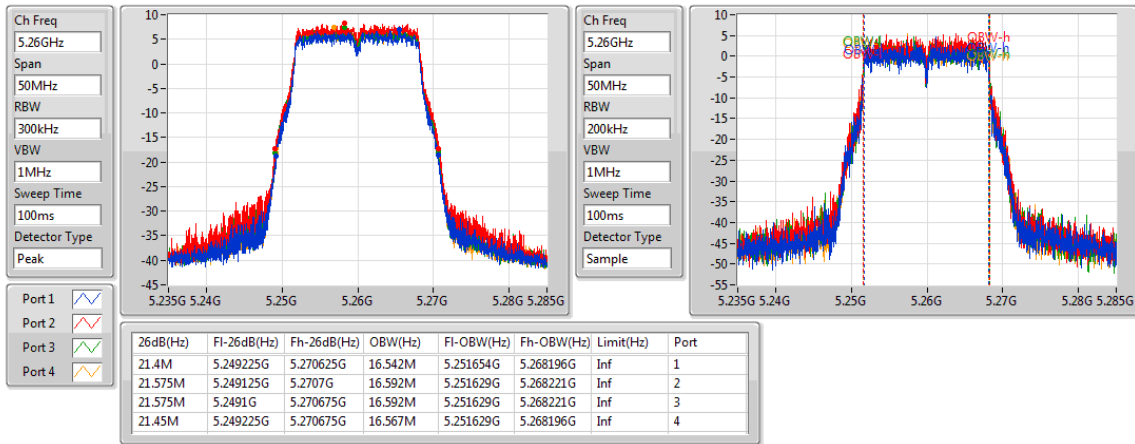
EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

802.11a_(6Mbps)_4TX

EBW

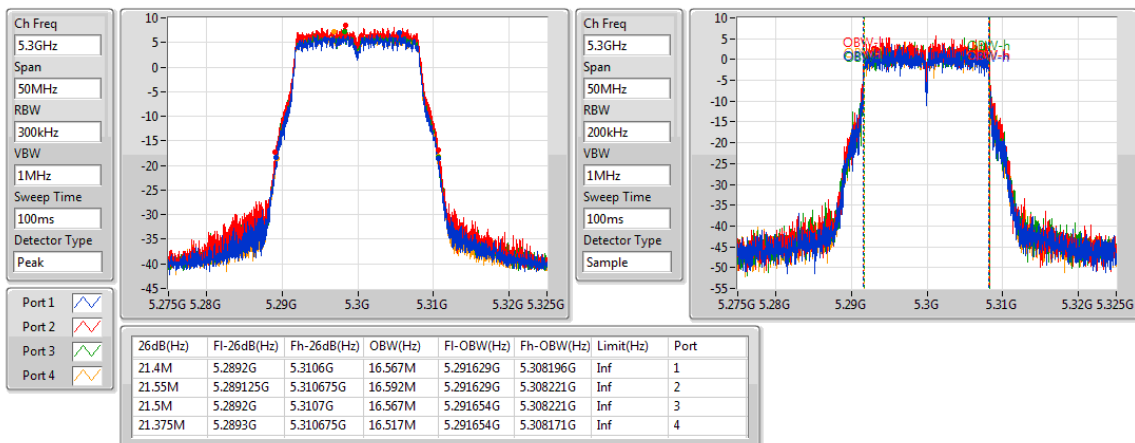
5260MHz



802.11a_(6Mbps)_4TX

EBW

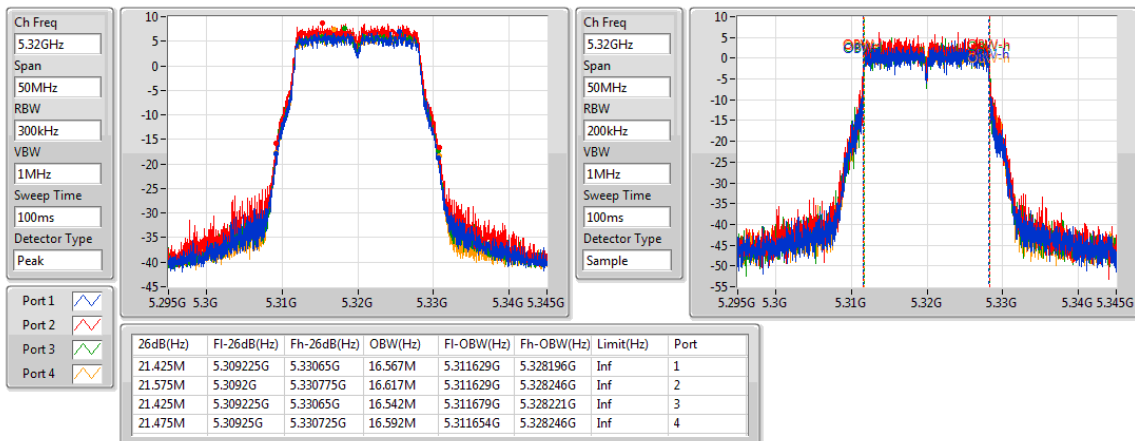
5300MHz



802.11a_(6Mbps)_4TX

EBW

5320MHz





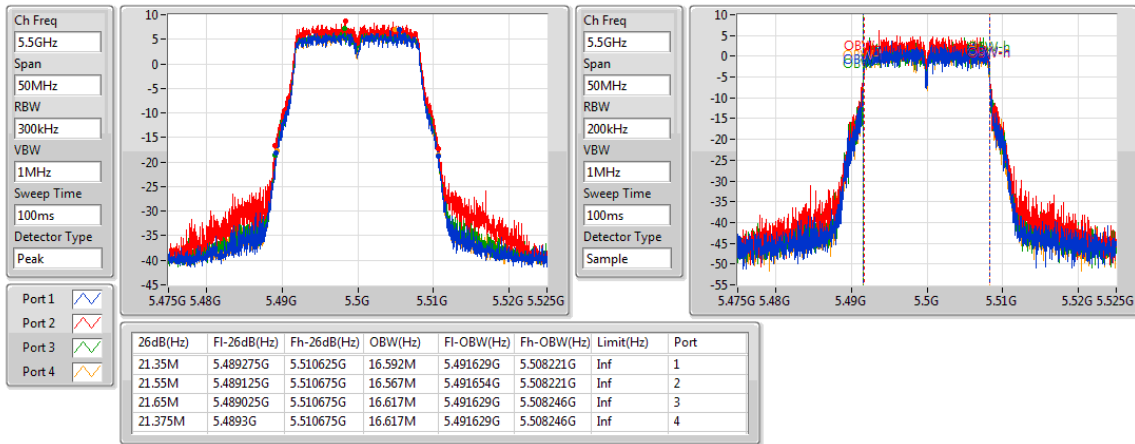
EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

802.11a_(6Mbps)_4TX

EBW

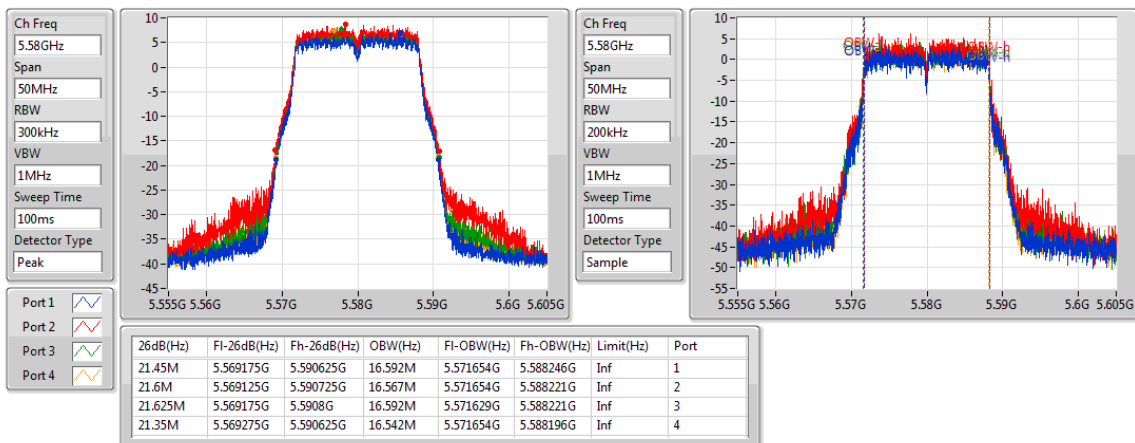
5500MHz



802.11a_(6Mbps)_4TX

EBW

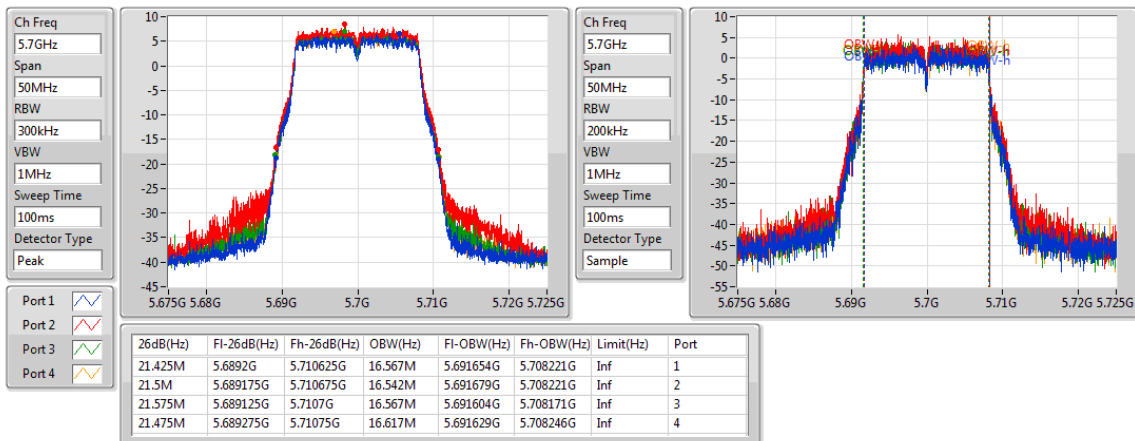
5580MHz



802.11a_(6Mbps)_4TX

EBW

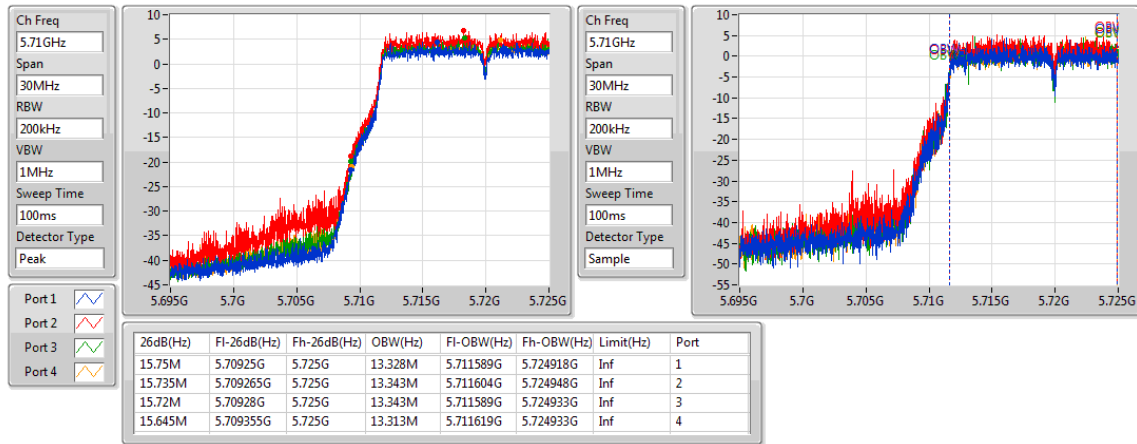
5700MHz



802.11a_(6Mbps)_4TX

EBW

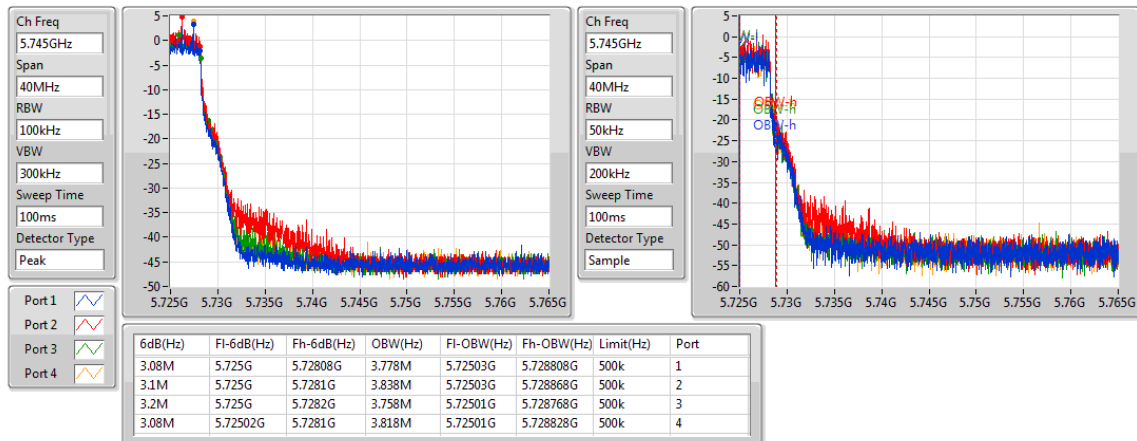
5720MHz Straddle 5.47-5.725GHz



802.11a_(6Mbps)_4TX

EBW

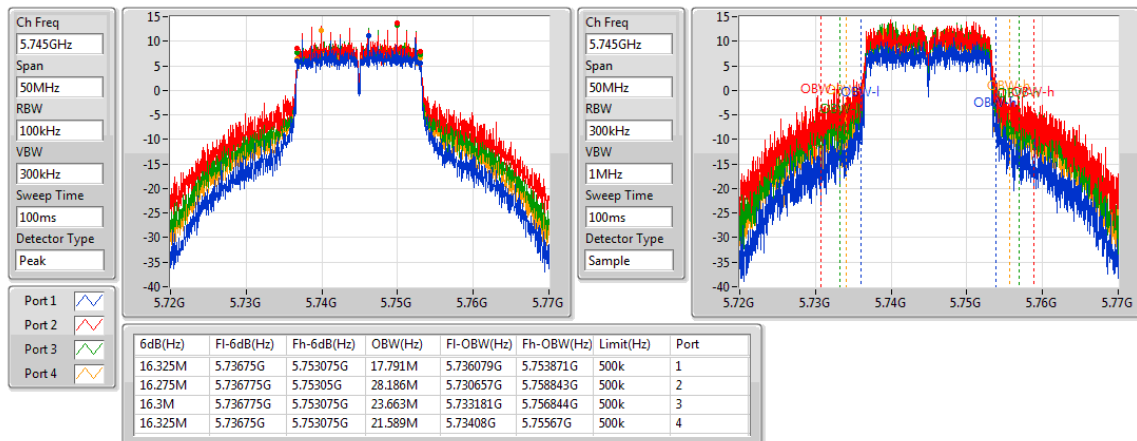
5720MHz Straddle 5.725-5.85GHz



802.11a_(6Mbps)_4TX

EBW

5745MHz





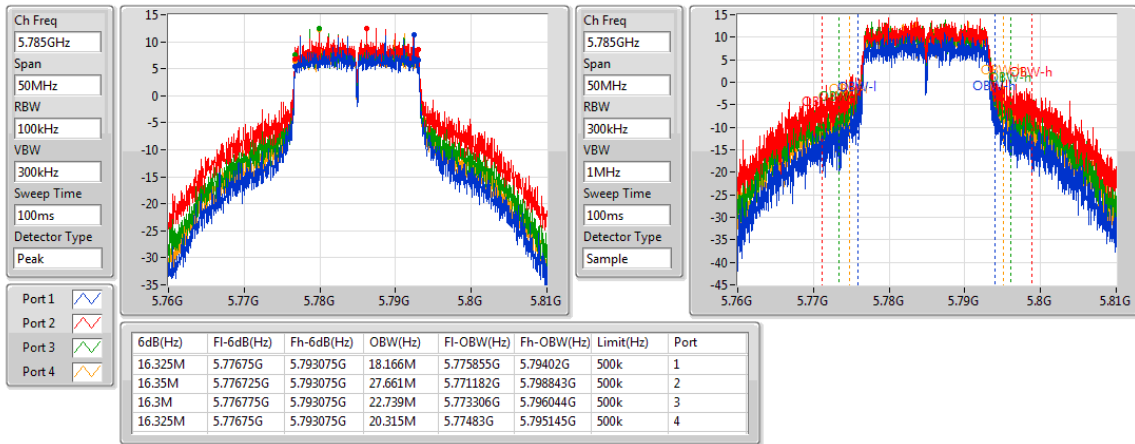
EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

802.11a (6Mbps)_4TX

EBW

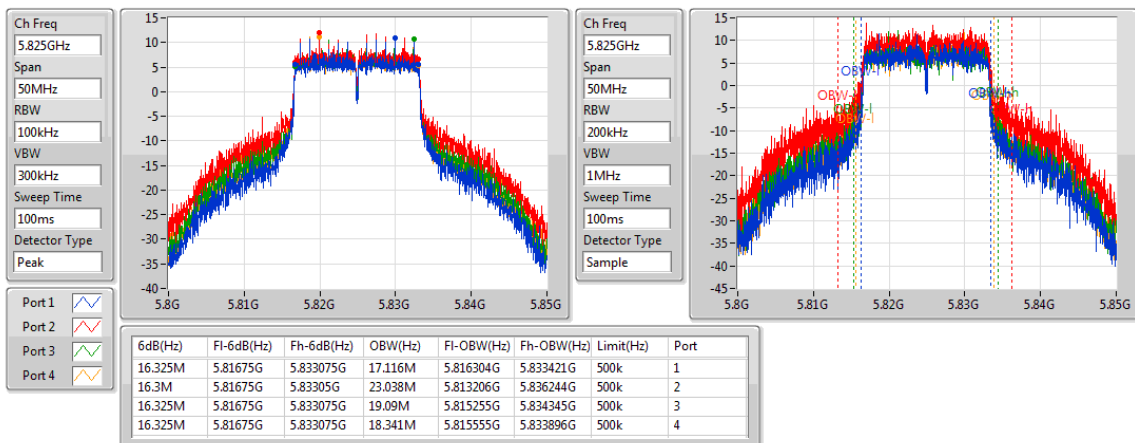
5785MHz



802.11a (6Mbps)_4TX

EBW

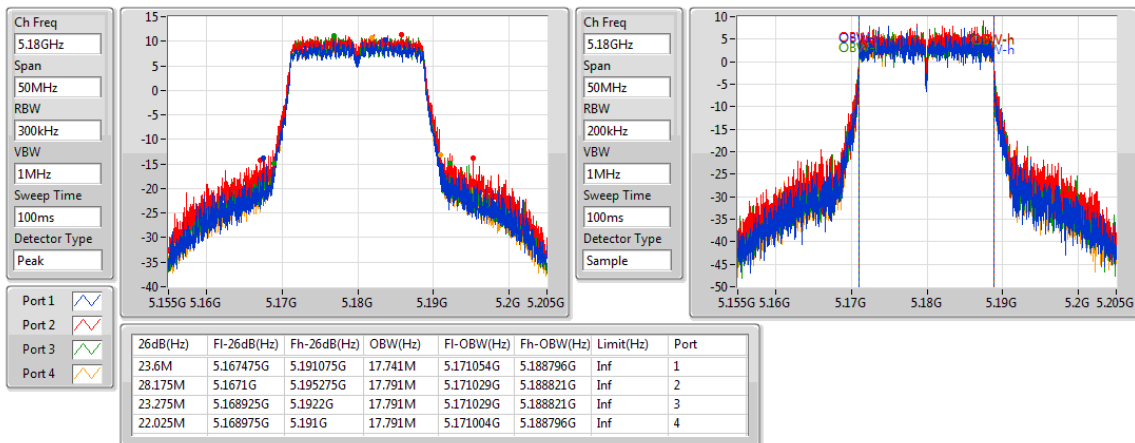
5825MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5180MHz





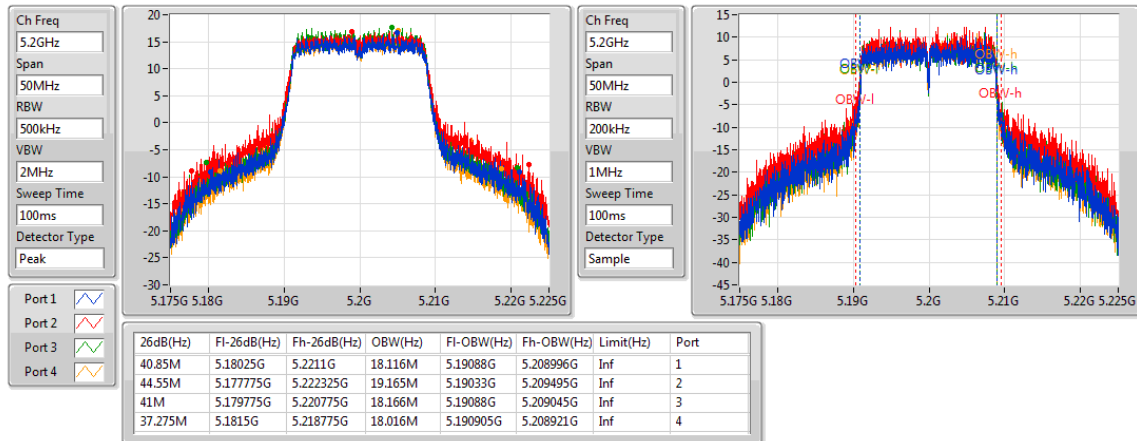
EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

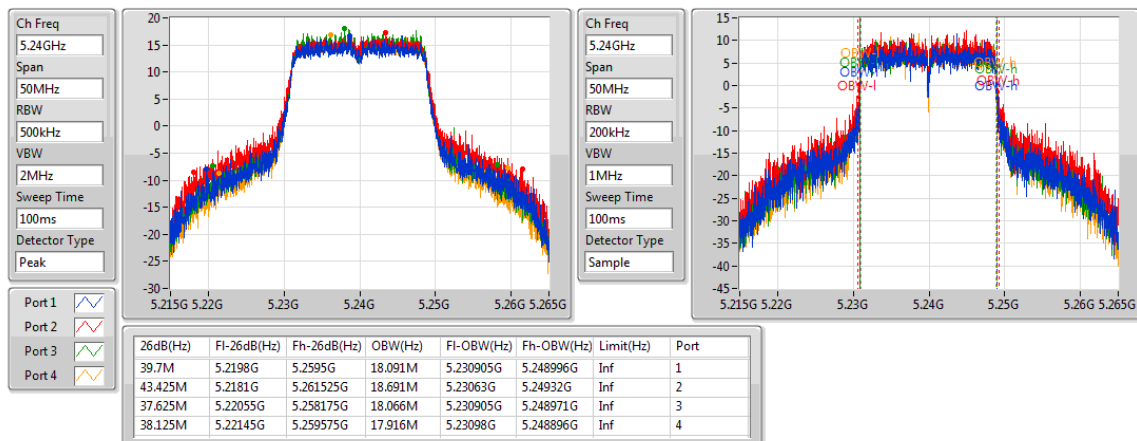
5200MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

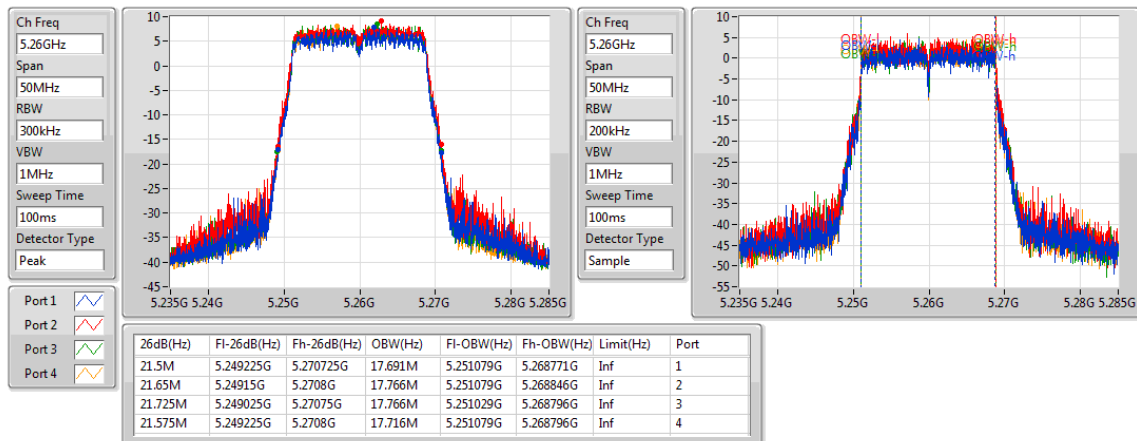
5240MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

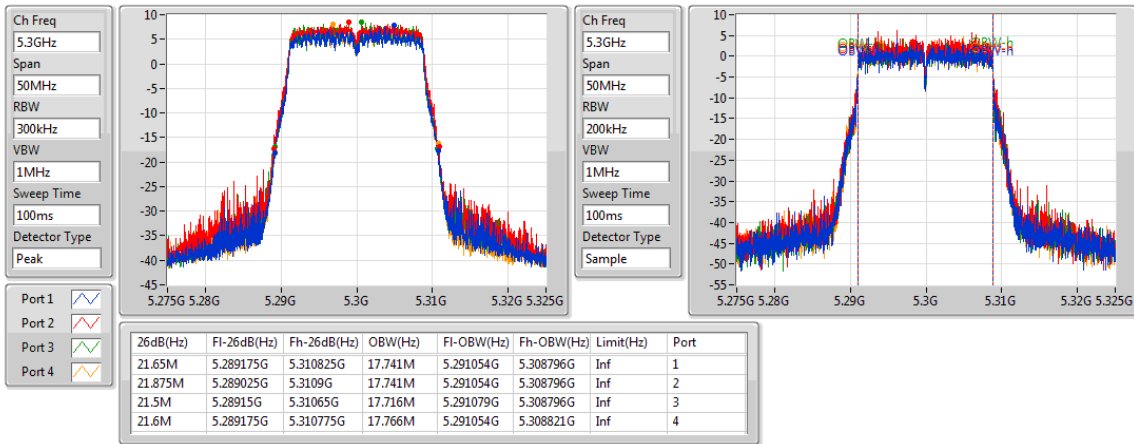
5260MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

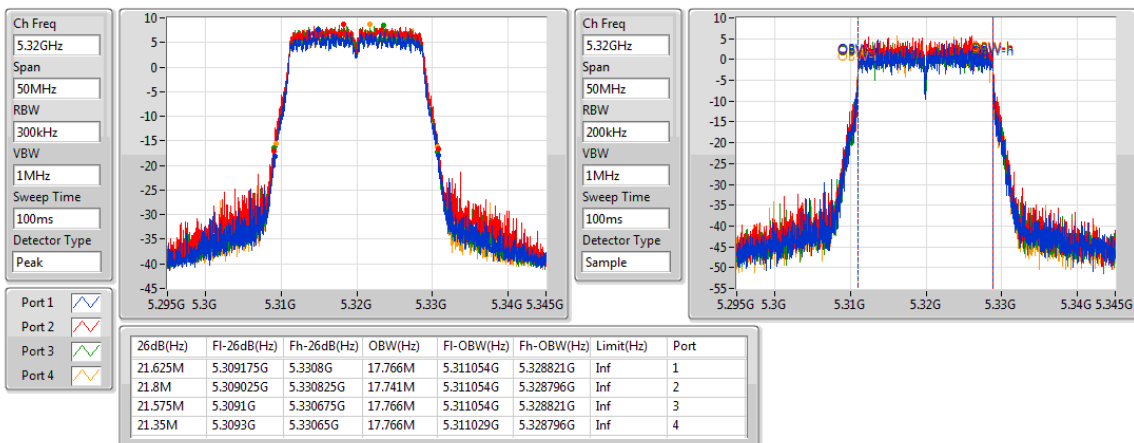
5300MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

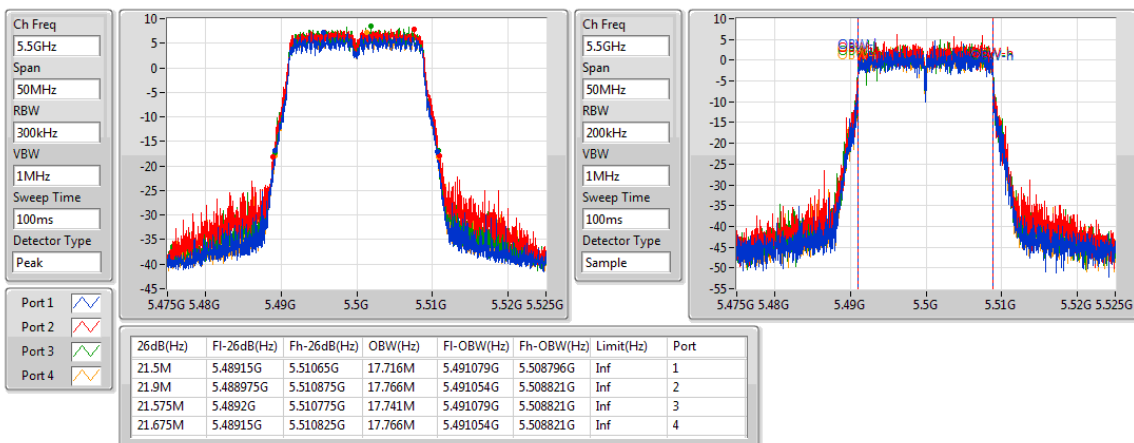
5320MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5500MHz





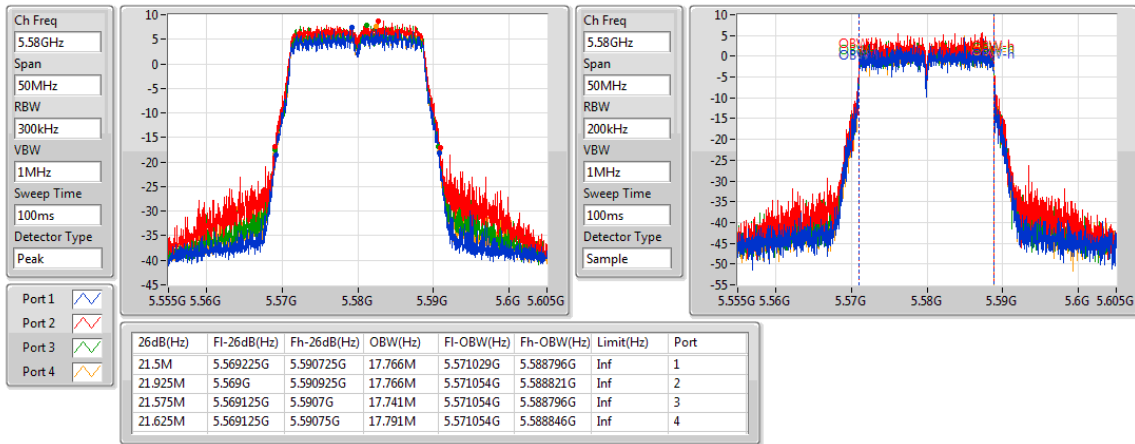
EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

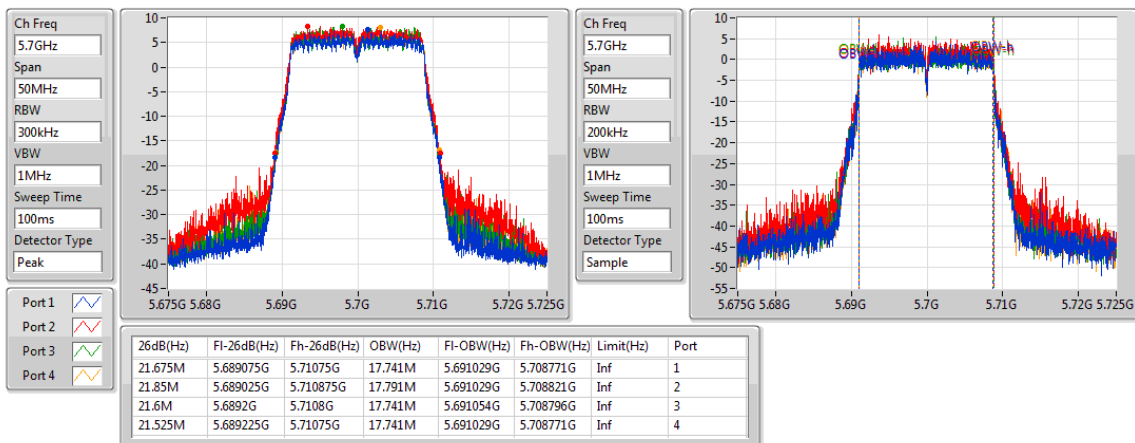
5580MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

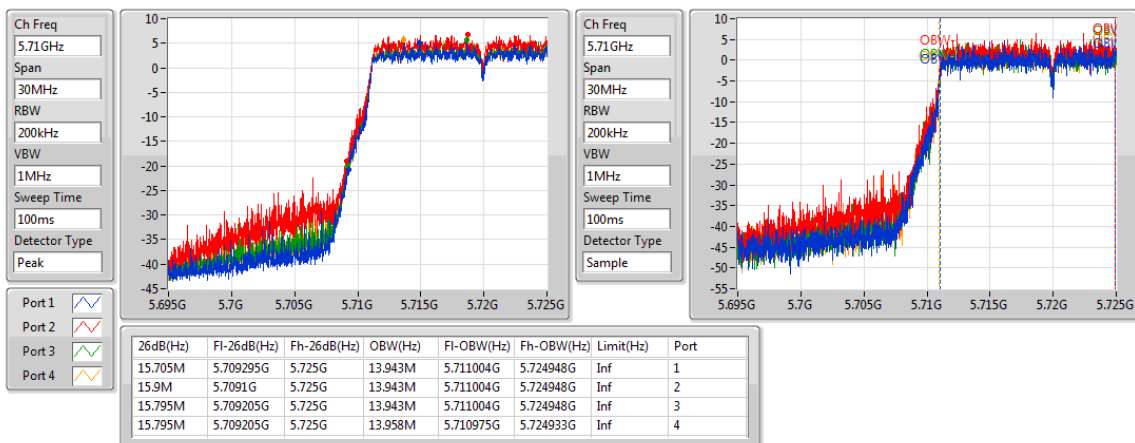
5700MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

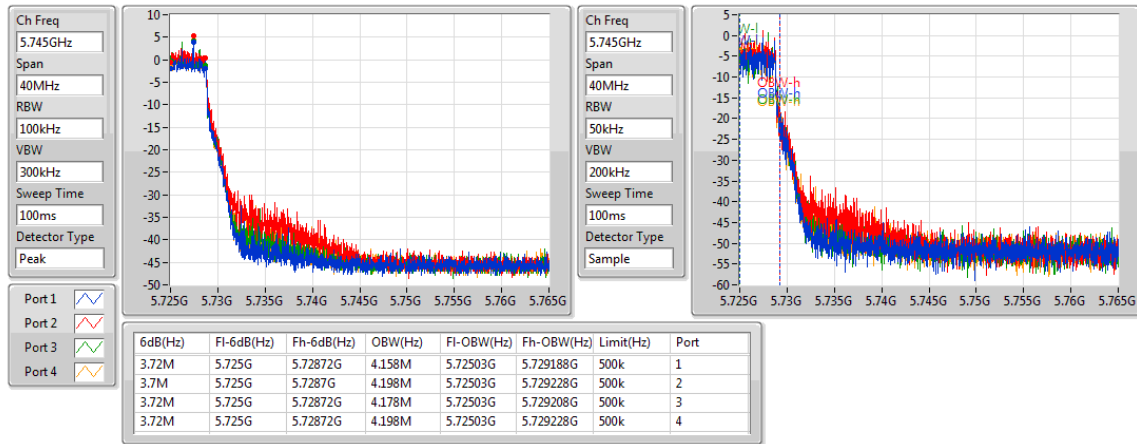
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

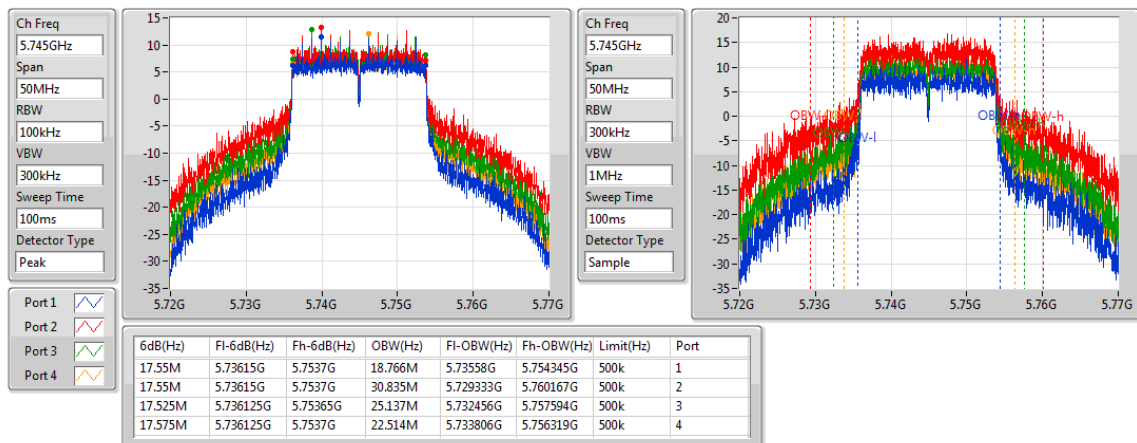
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

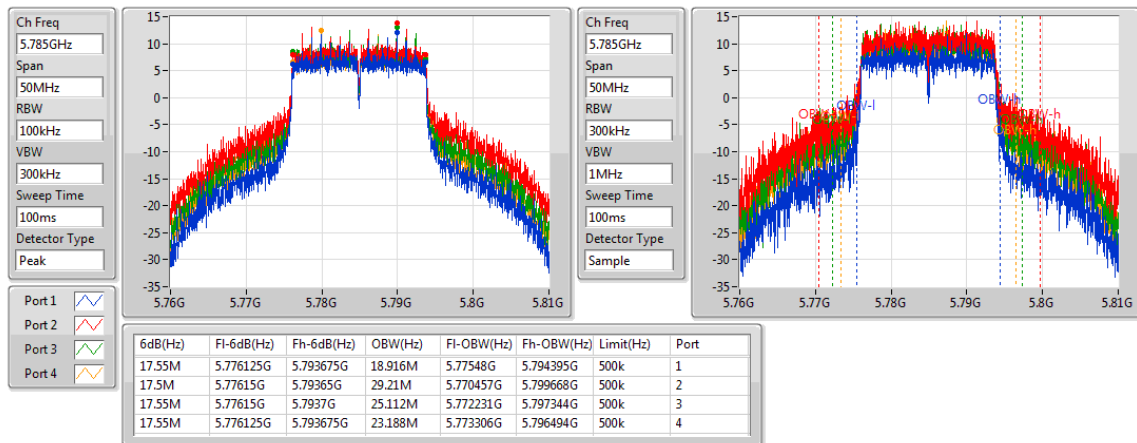
5745MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5785MHz





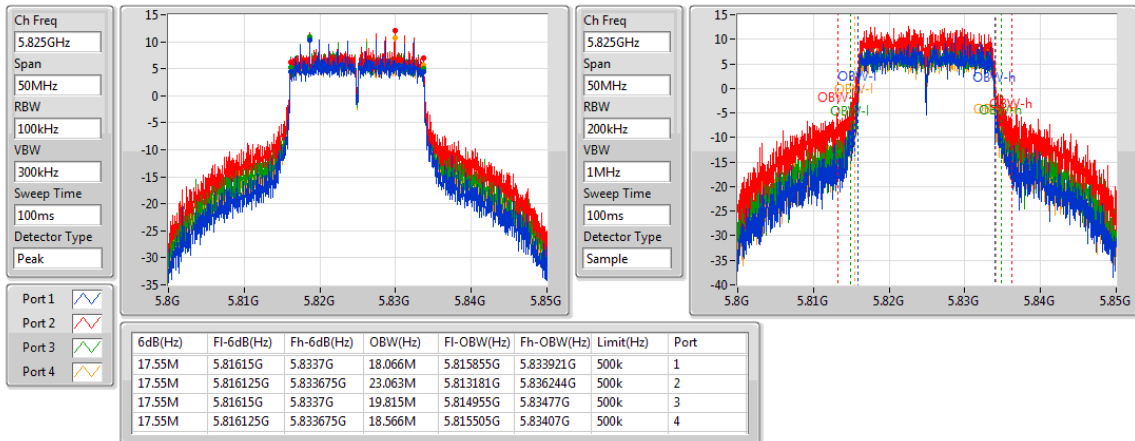
EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

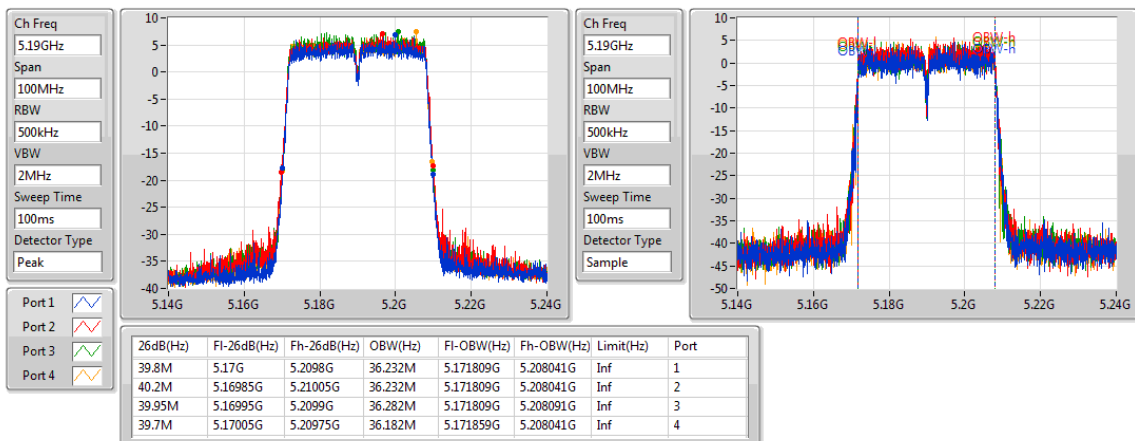
5825MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

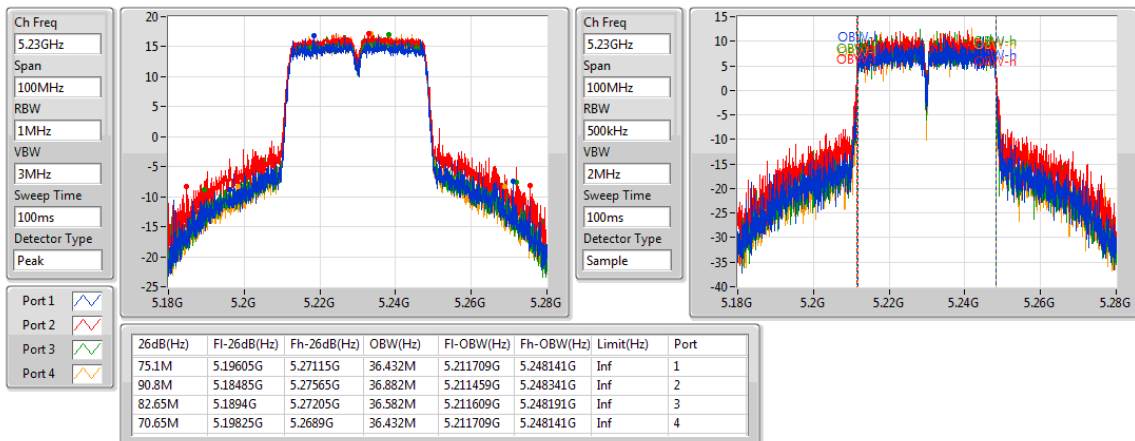
5190MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5230MHz





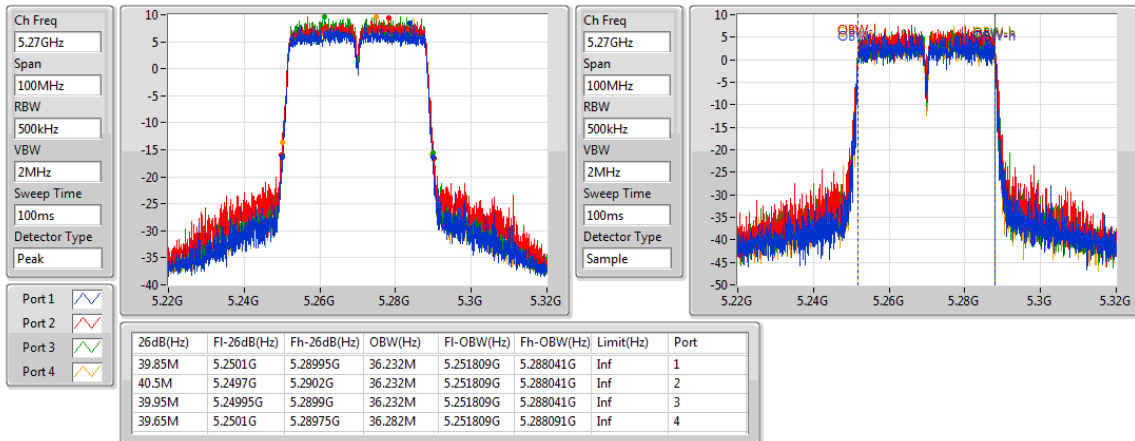
EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

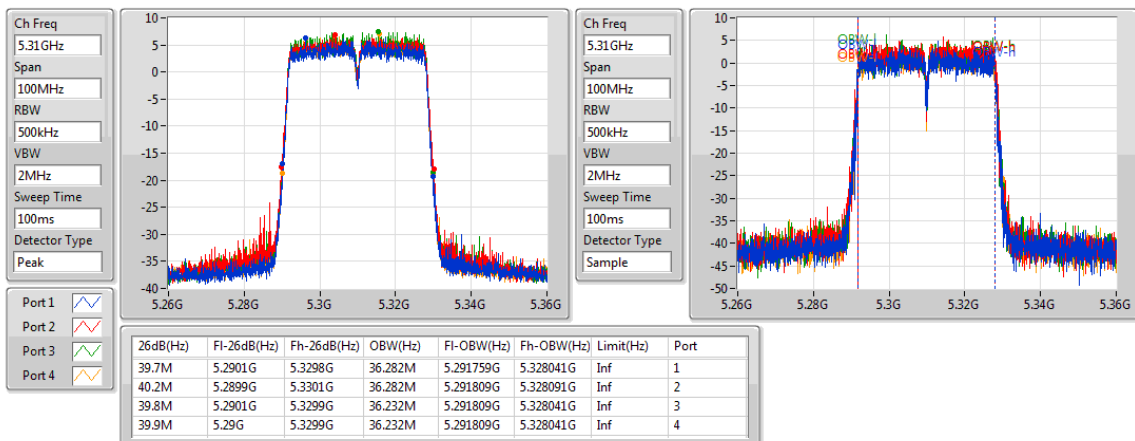
5270MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

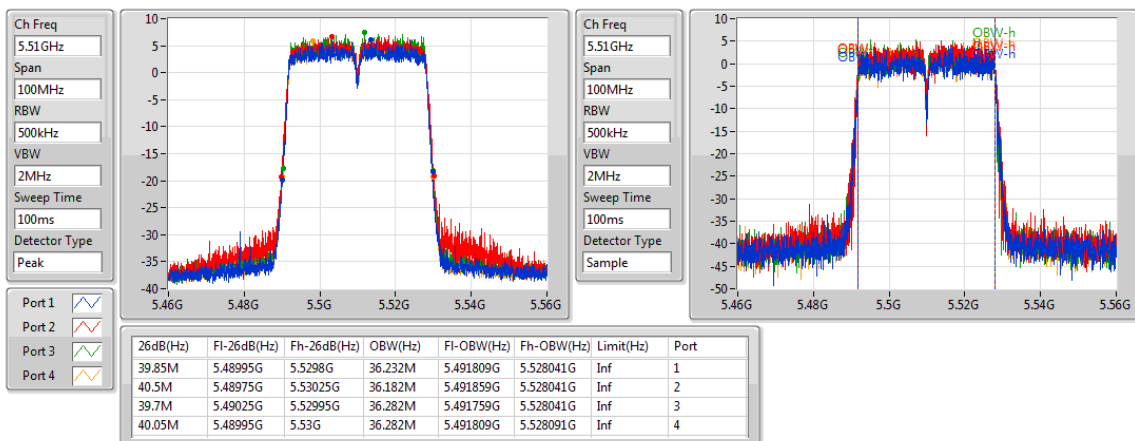
5310MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

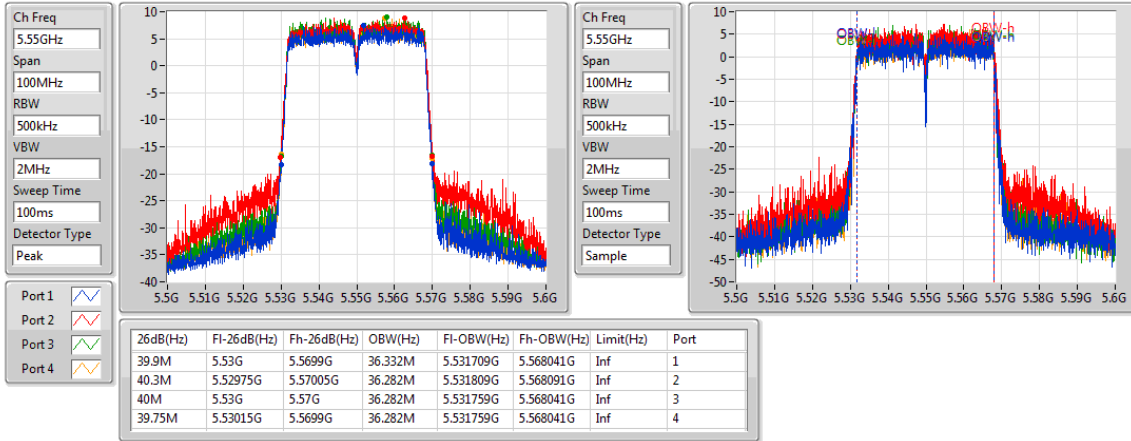
5510MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

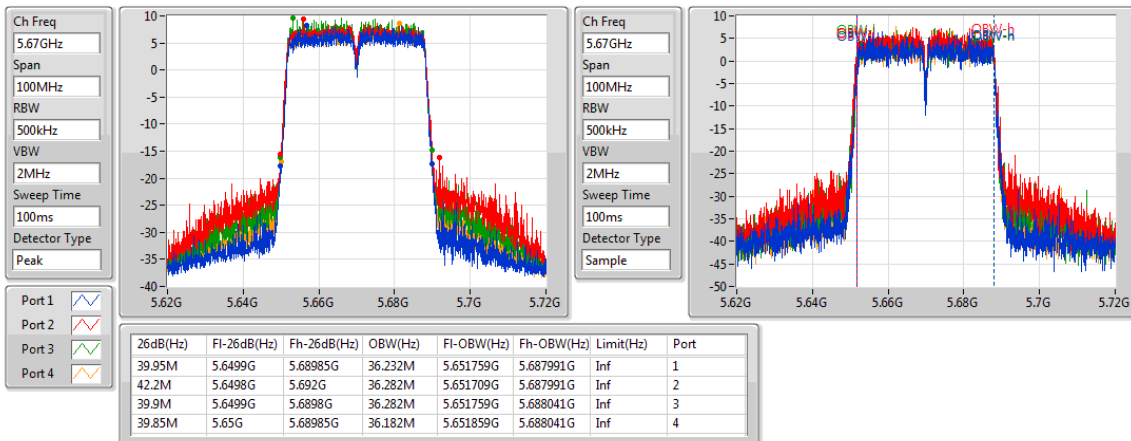
5550MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

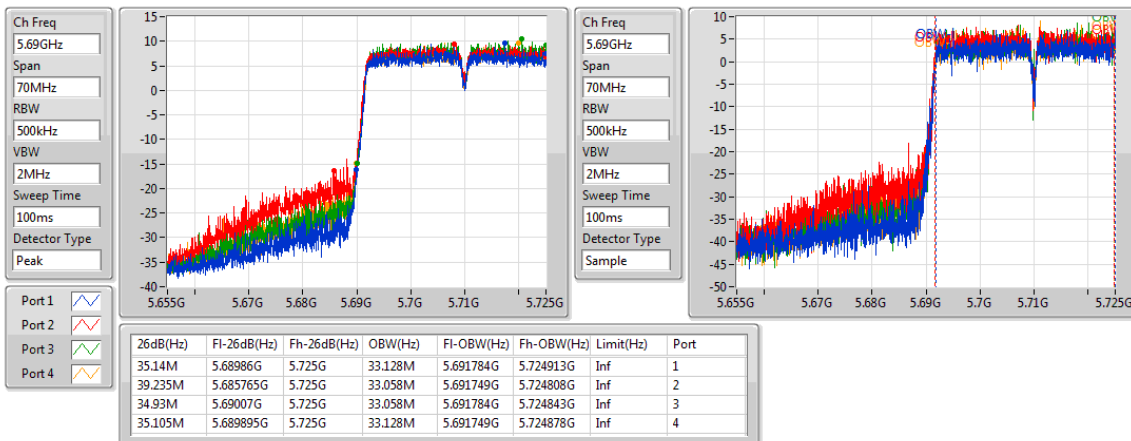
5670MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.47-5.725GHz





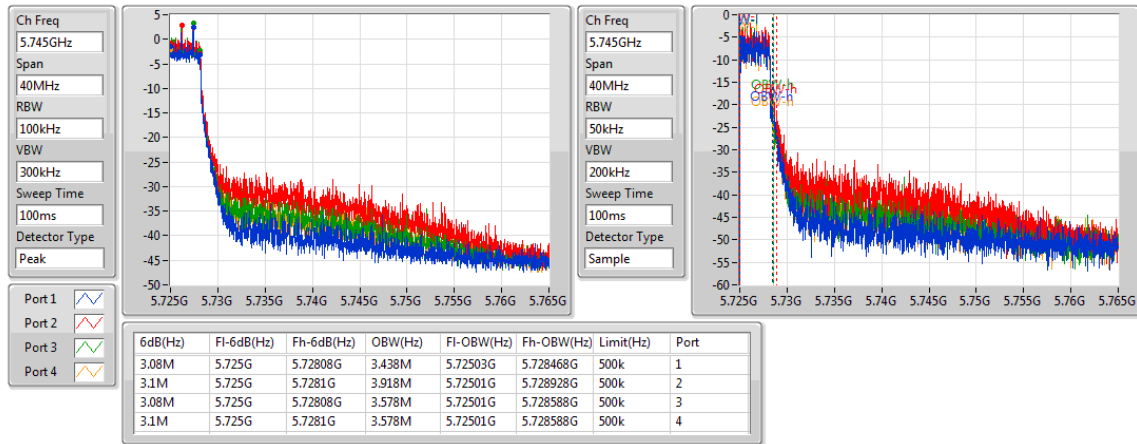
EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

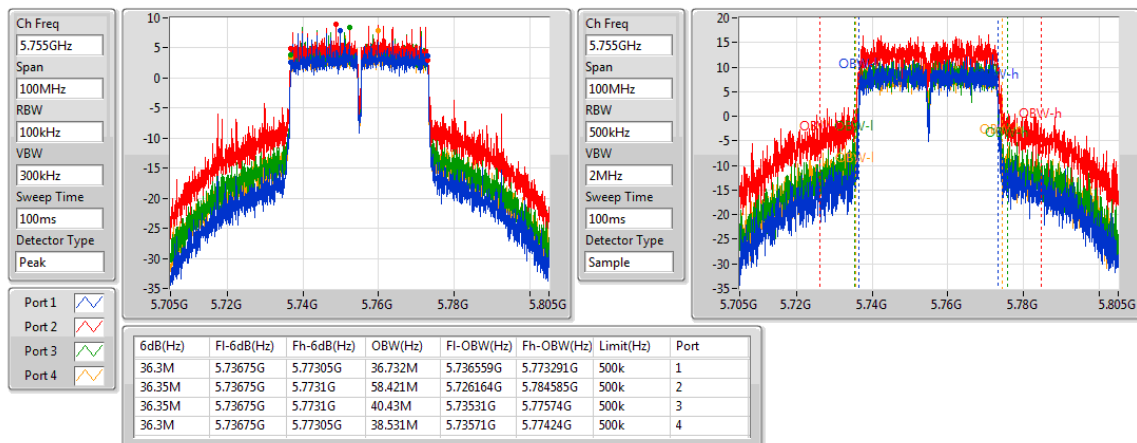
5710MHz Straddle 5.725-5.85GHz



802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

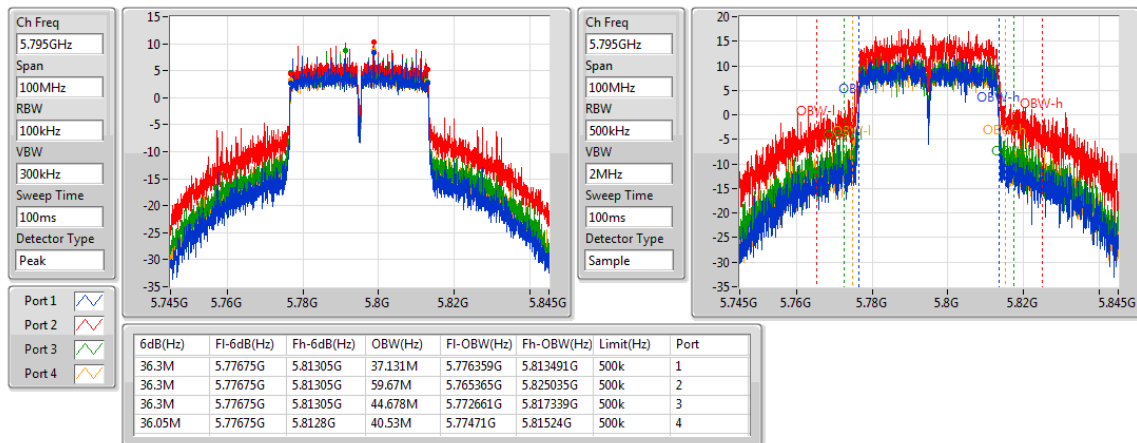
5755MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5795MHz





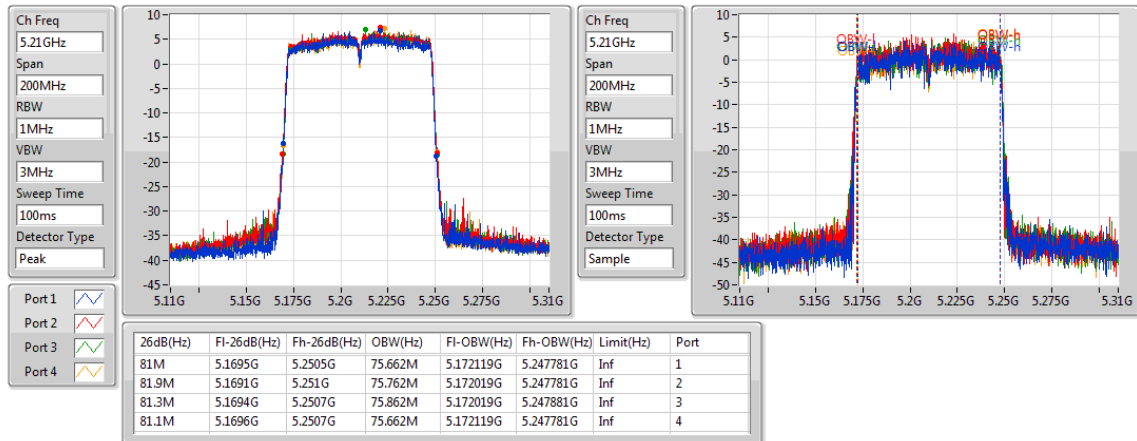
EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

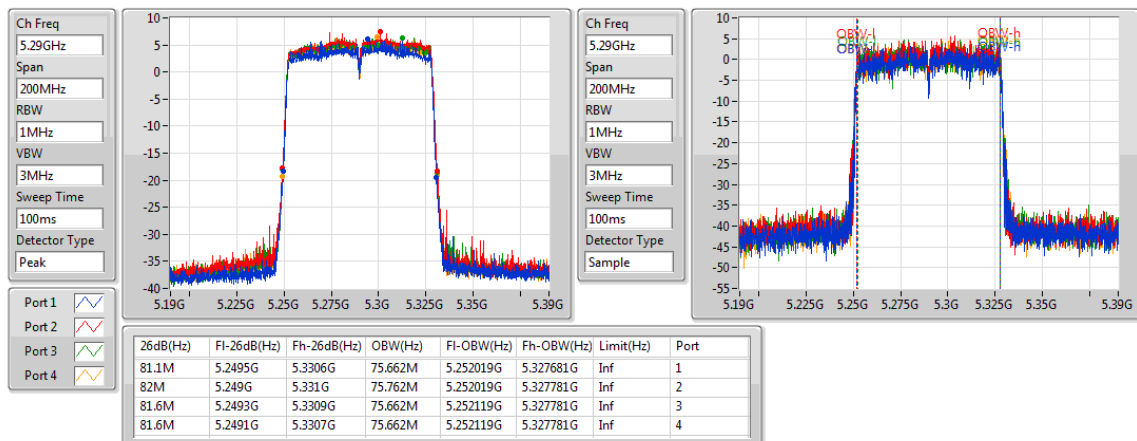
5210MHz



802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

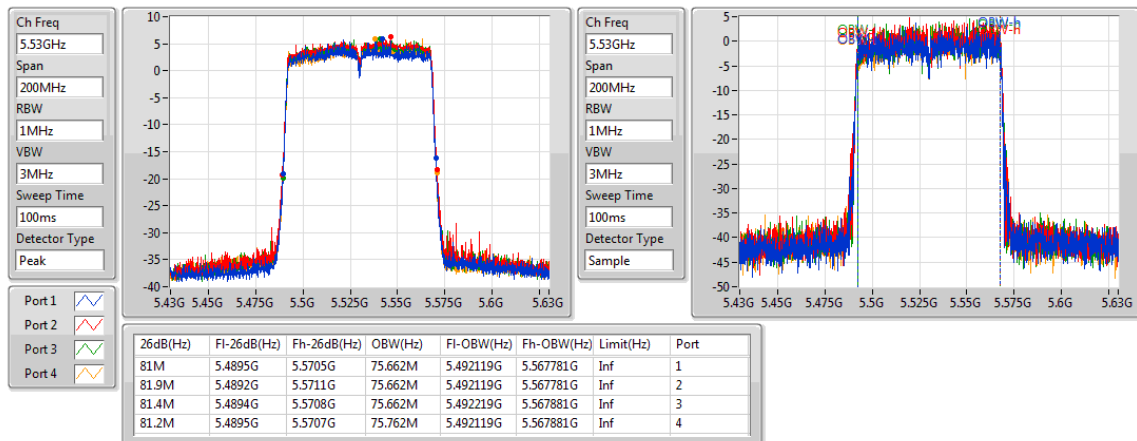
5290MHz



802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

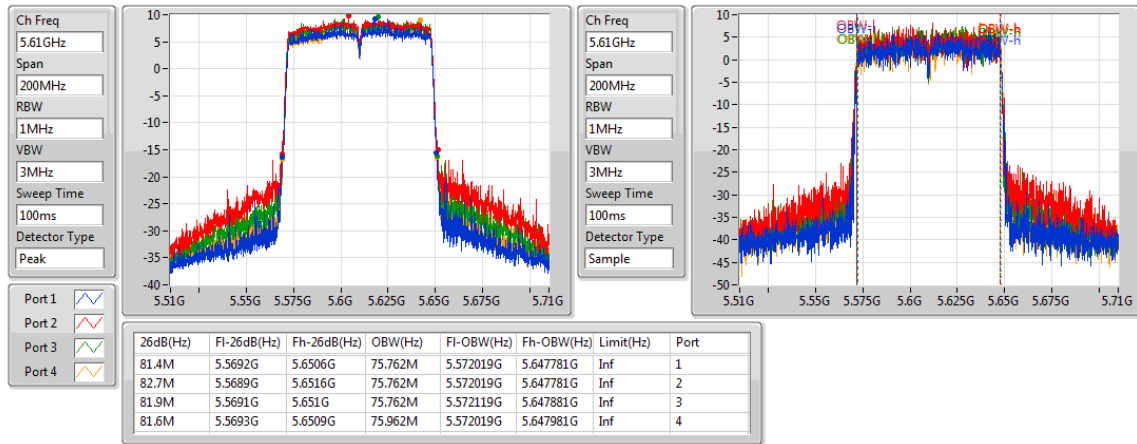
5530MHz



802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

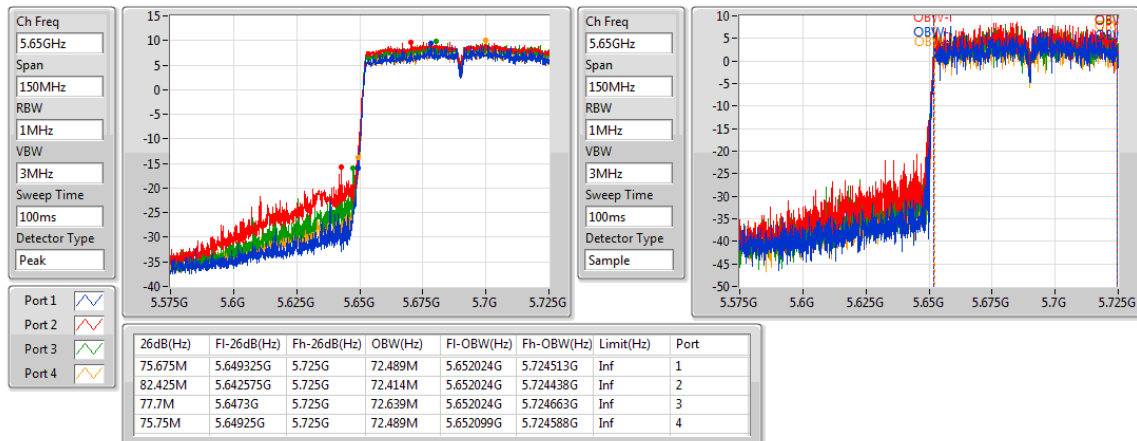
5610MHz



802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

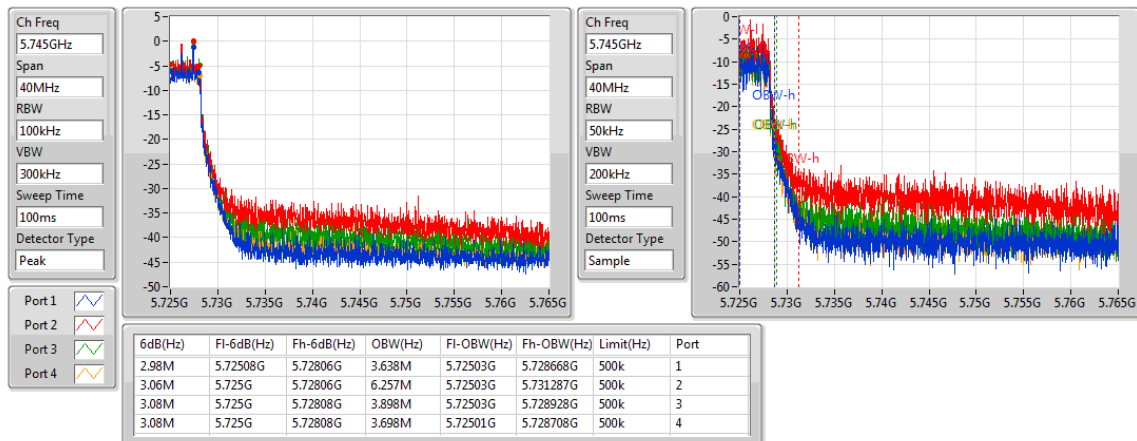
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz





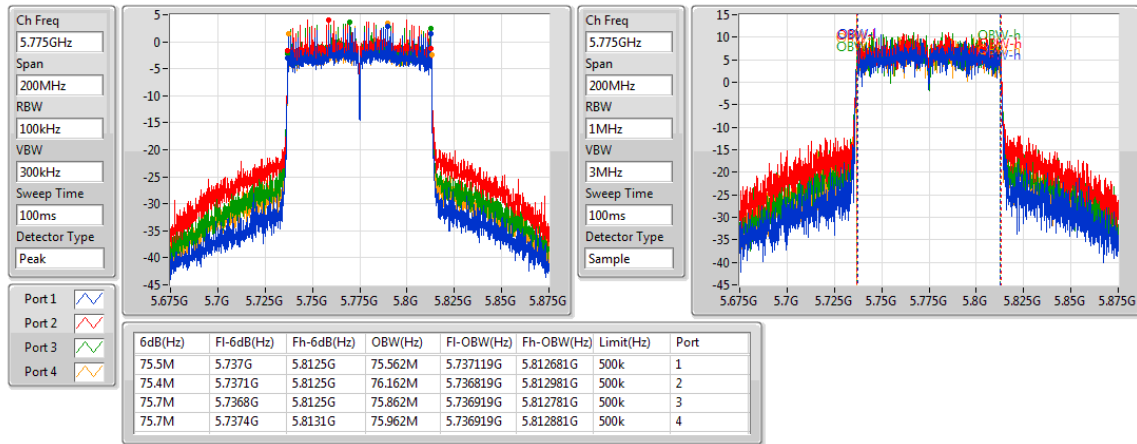
EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

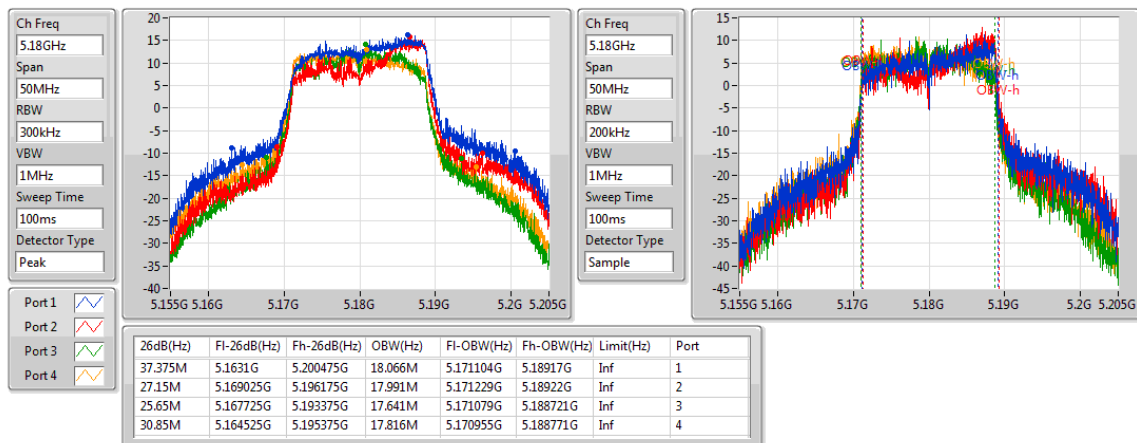
5775MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

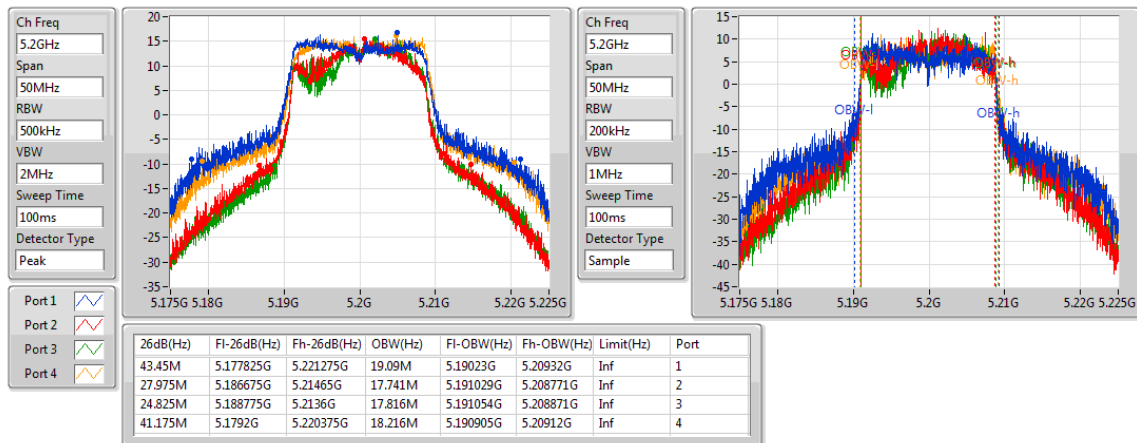
5180MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

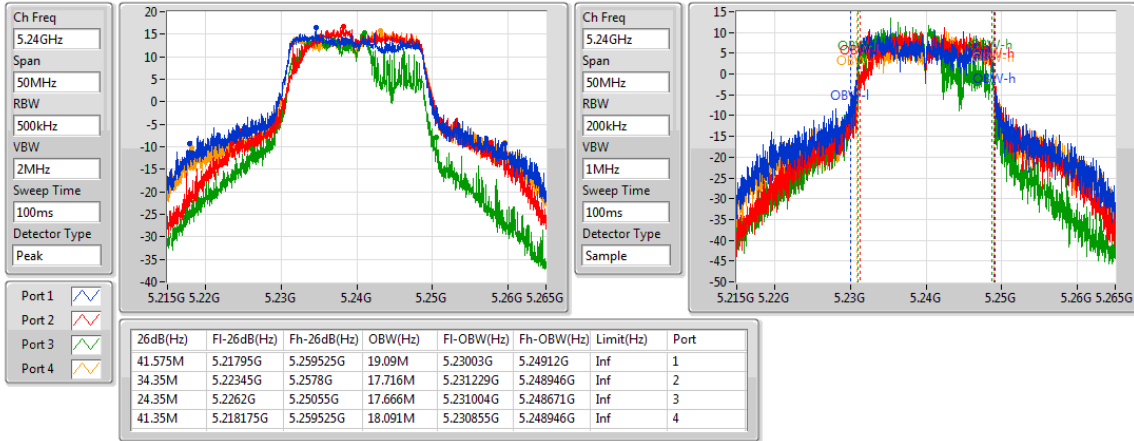
5200MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

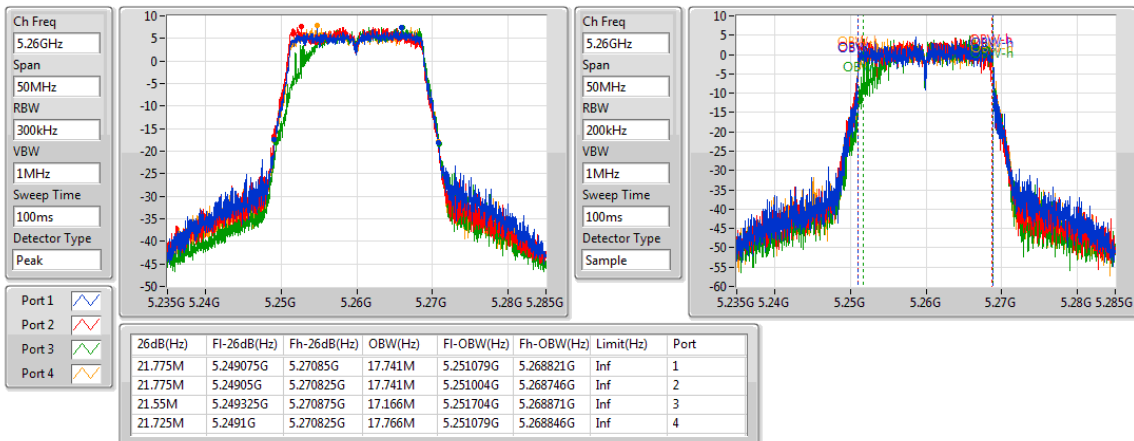
5240MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

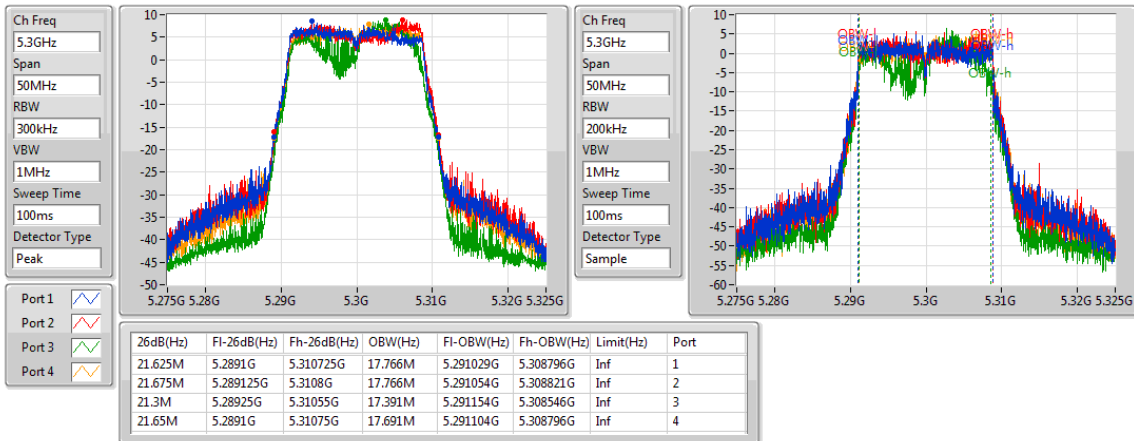
5260MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

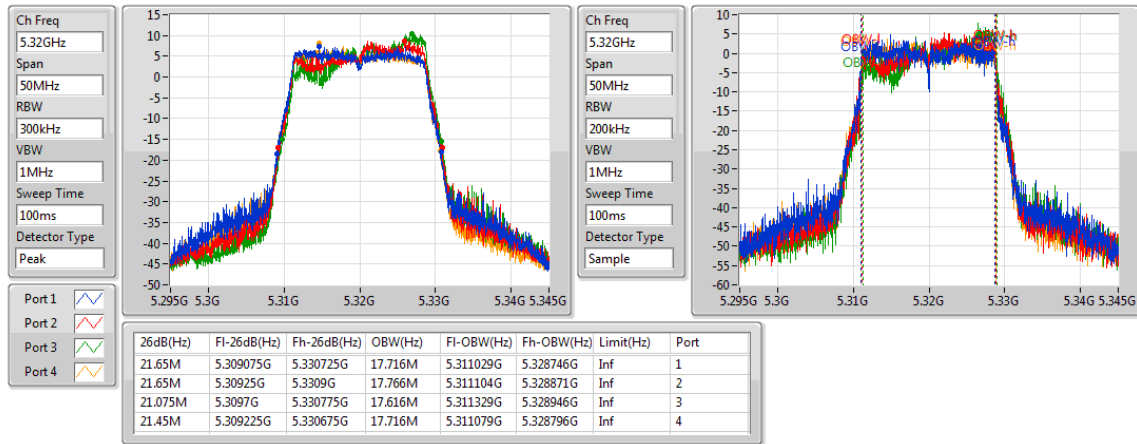
5300MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

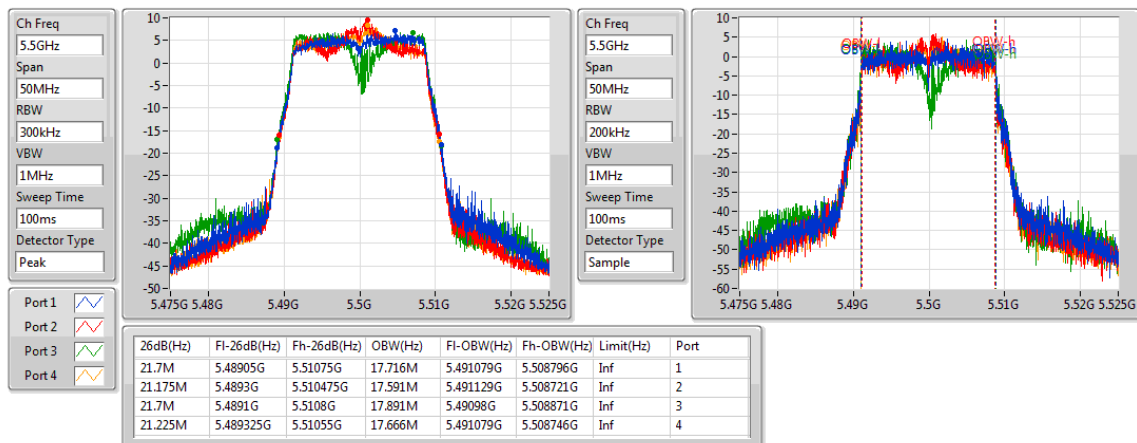
5320MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

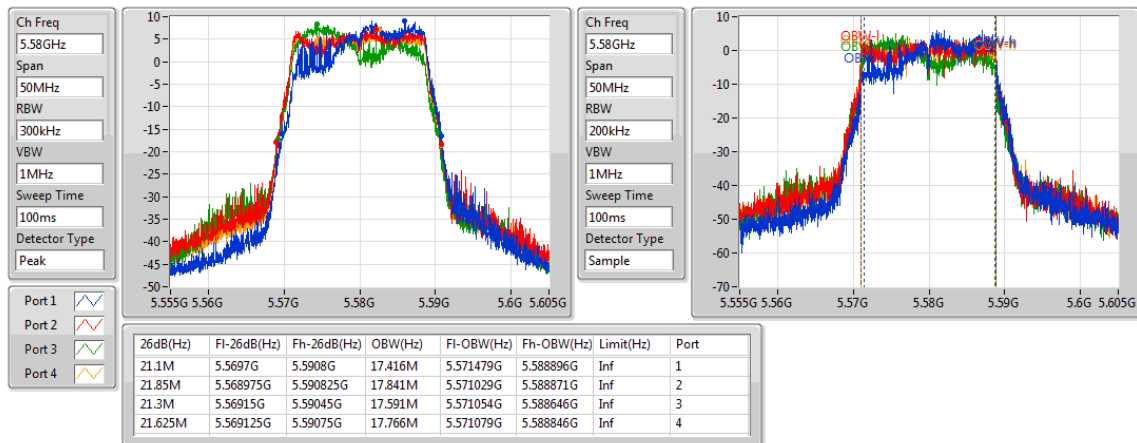
5500MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5580MHz





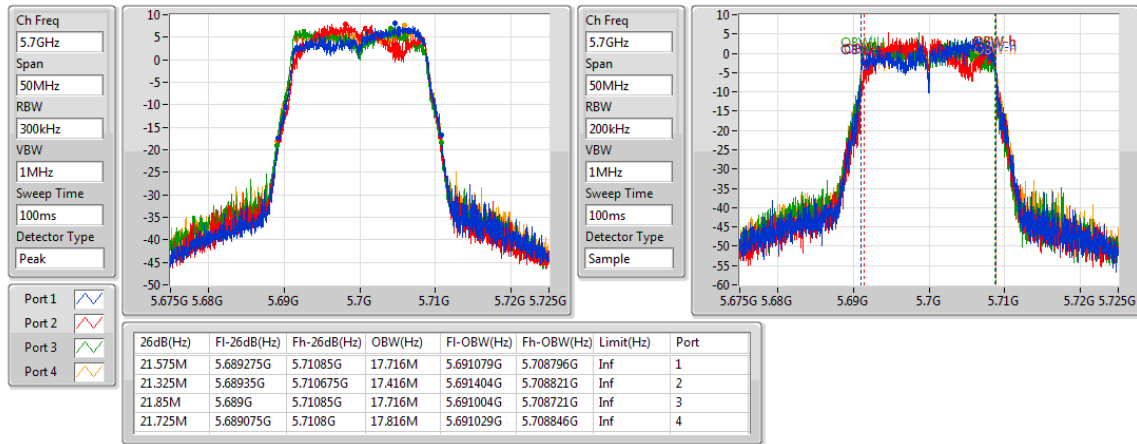
EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

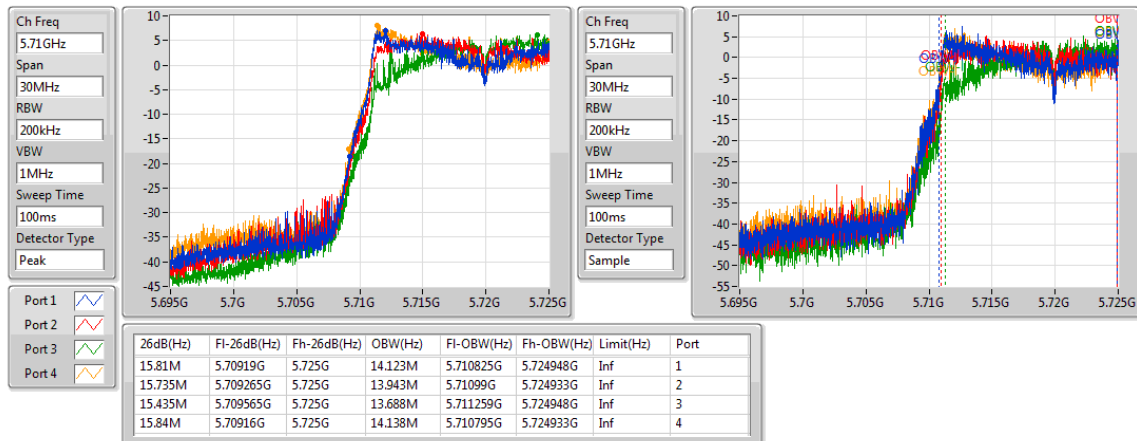
5700MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

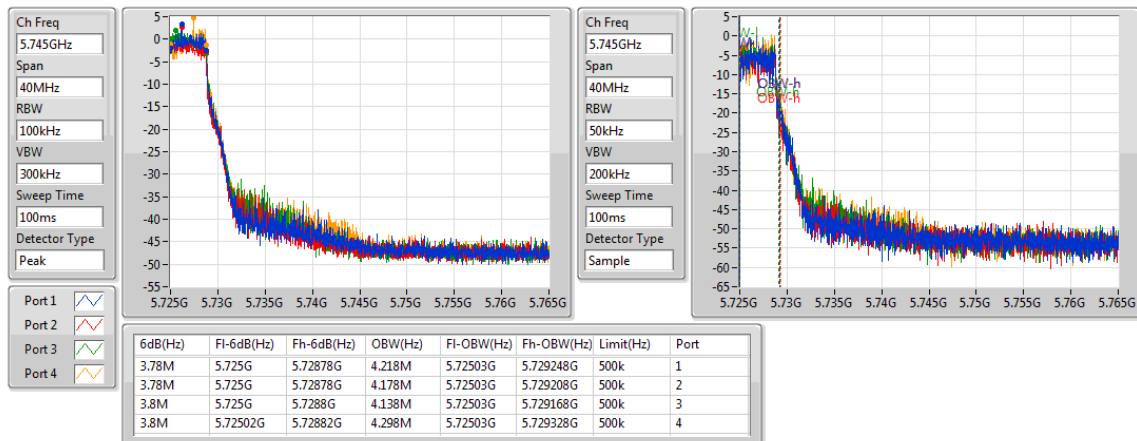
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

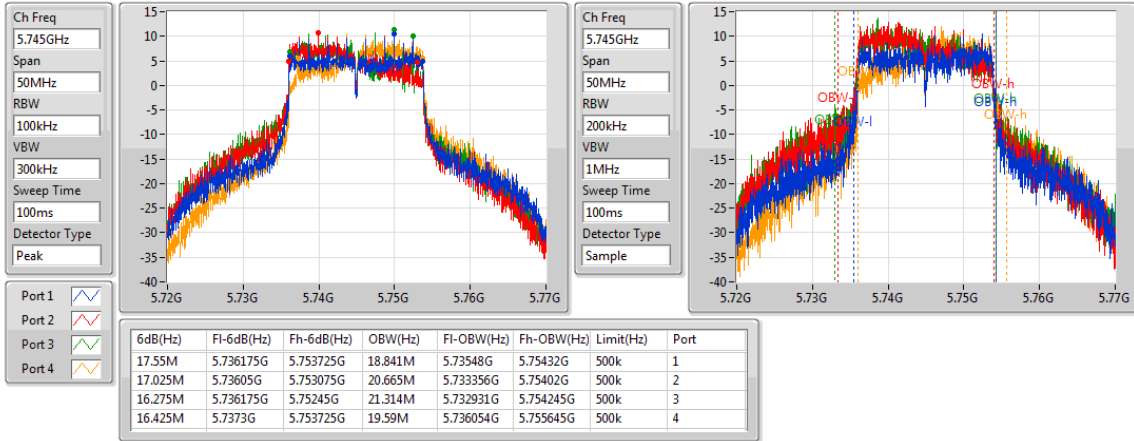
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

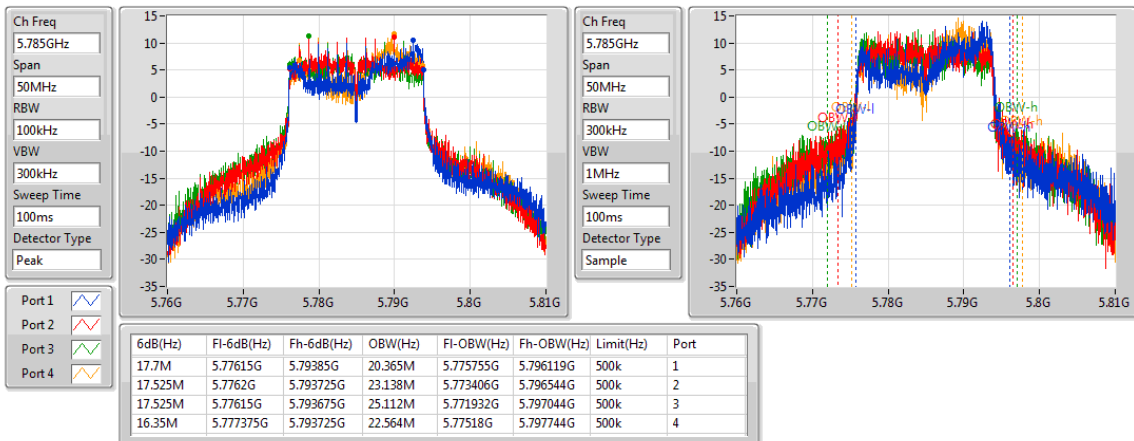
5745MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

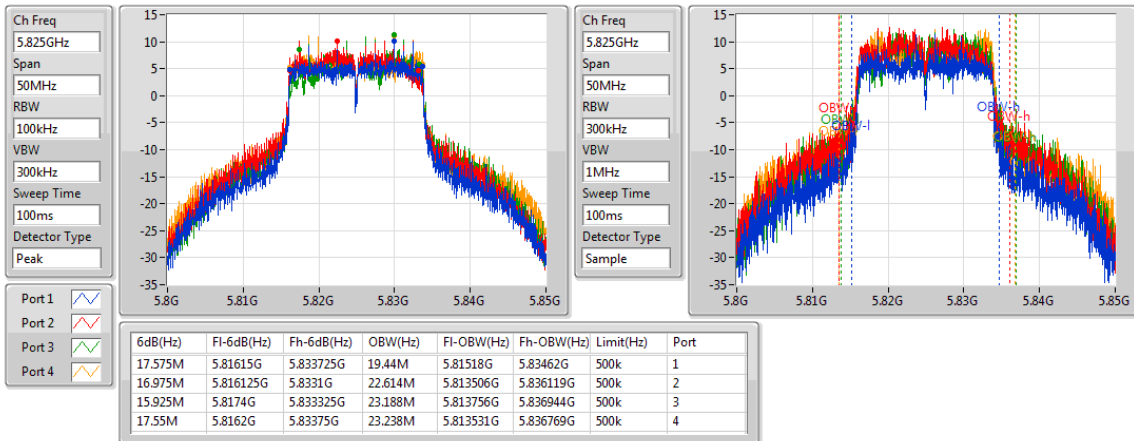
5785MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

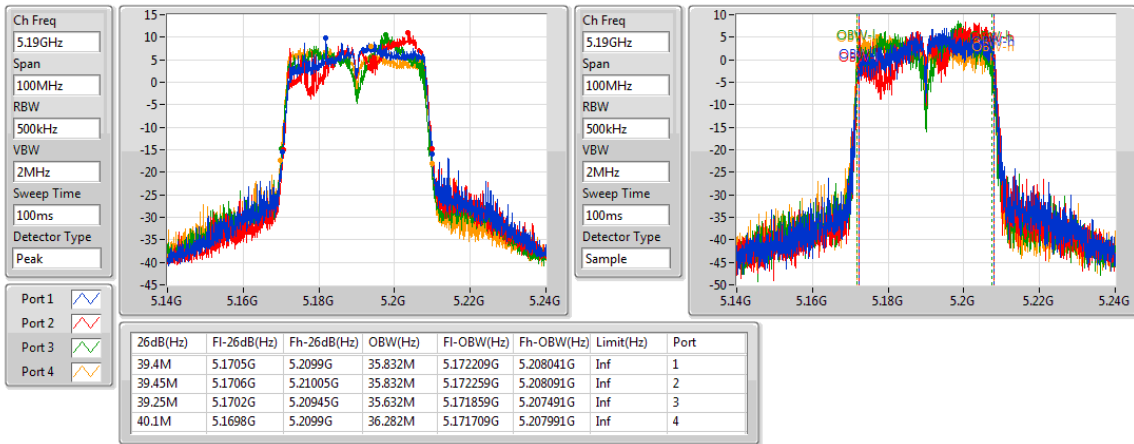
5825MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

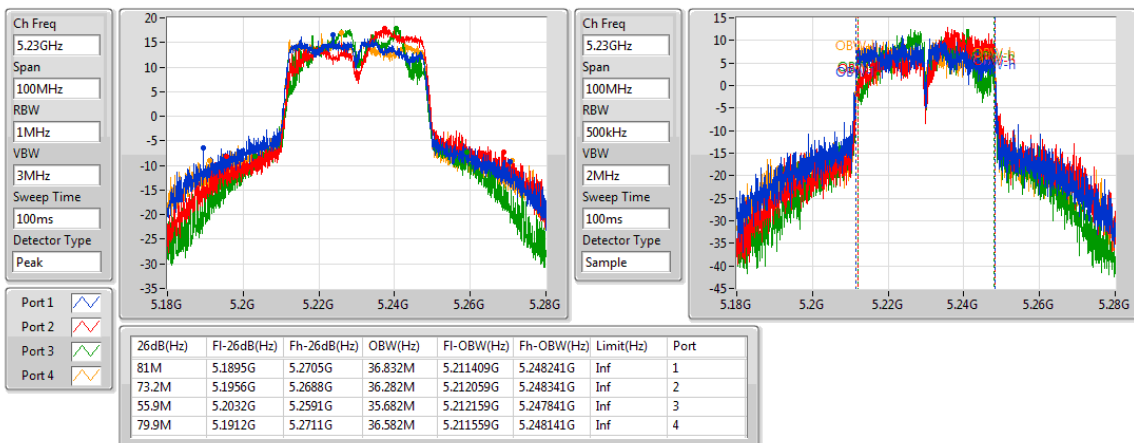
5190MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

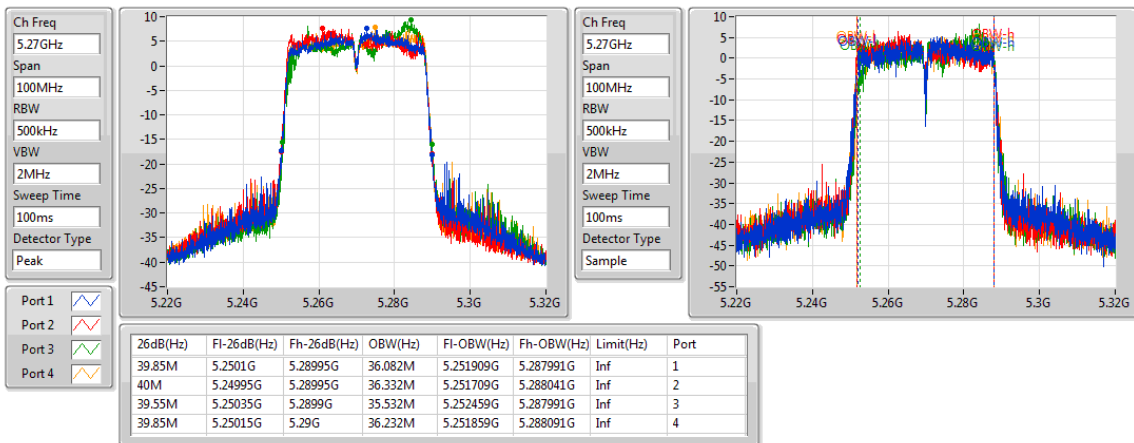
5230MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5270MHz





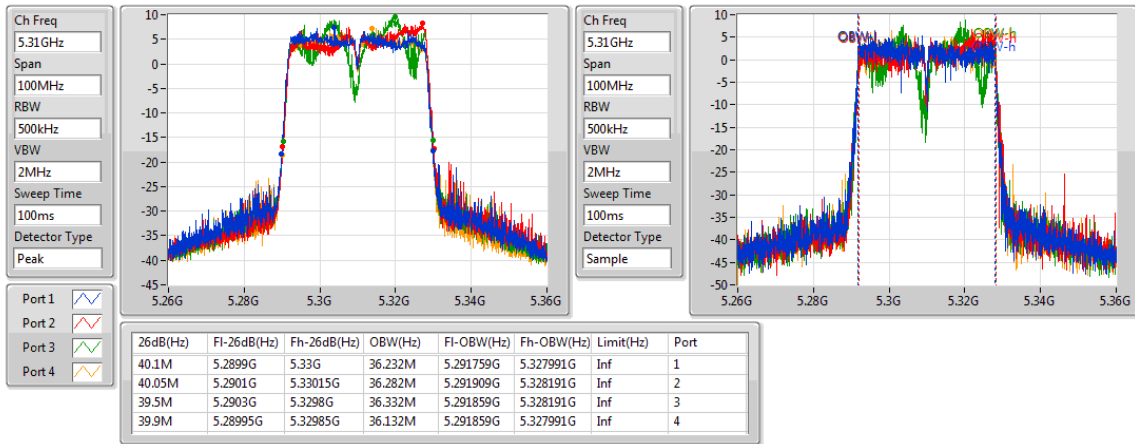
EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

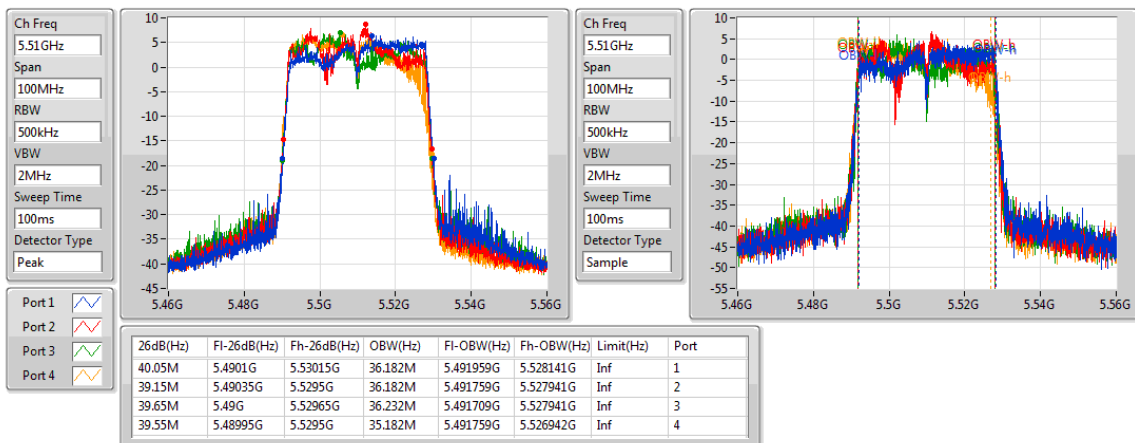
5310MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

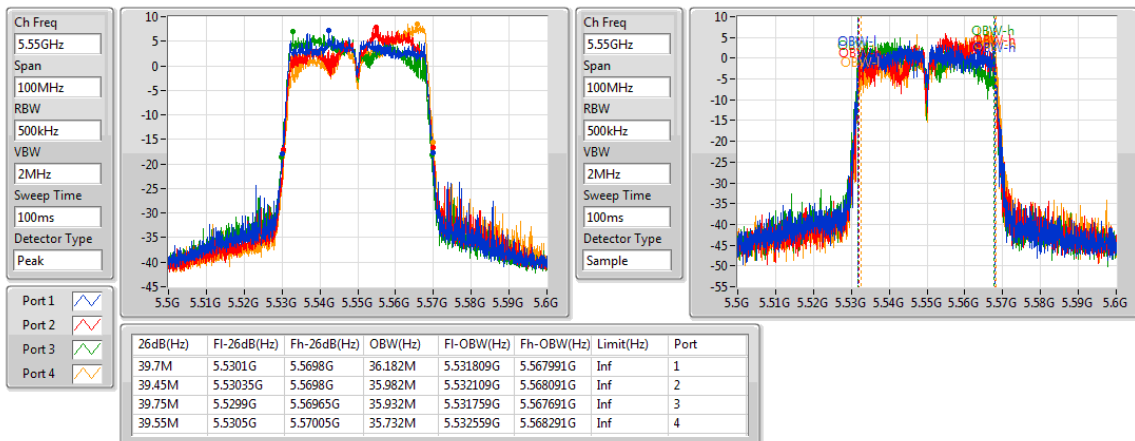
5510MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

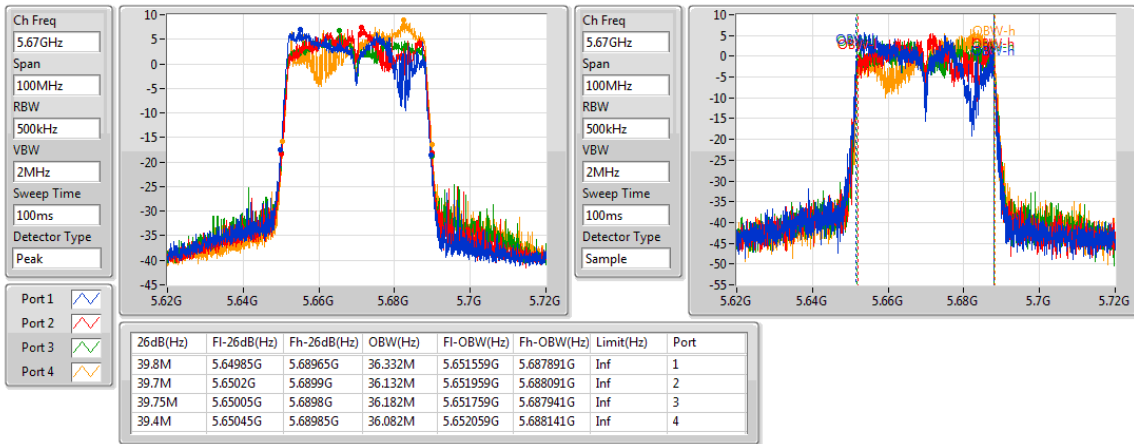
5550MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

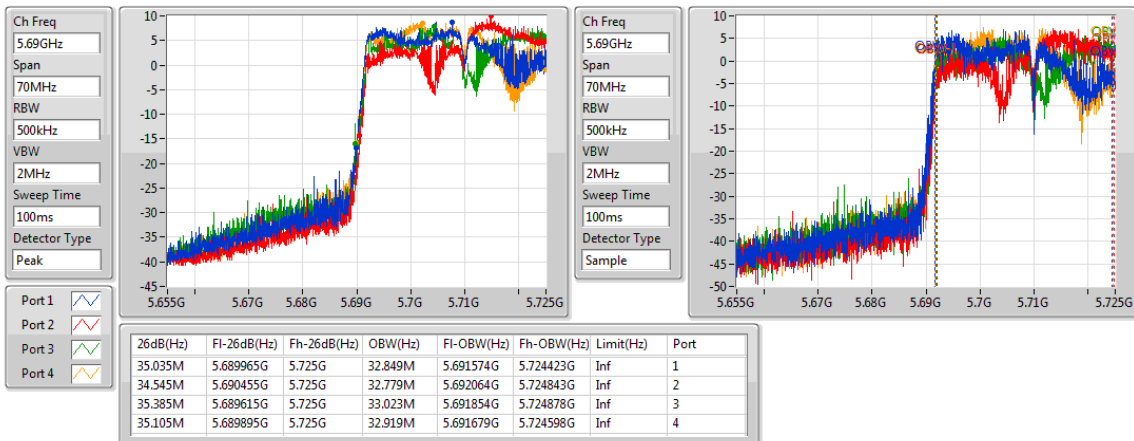
5670MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

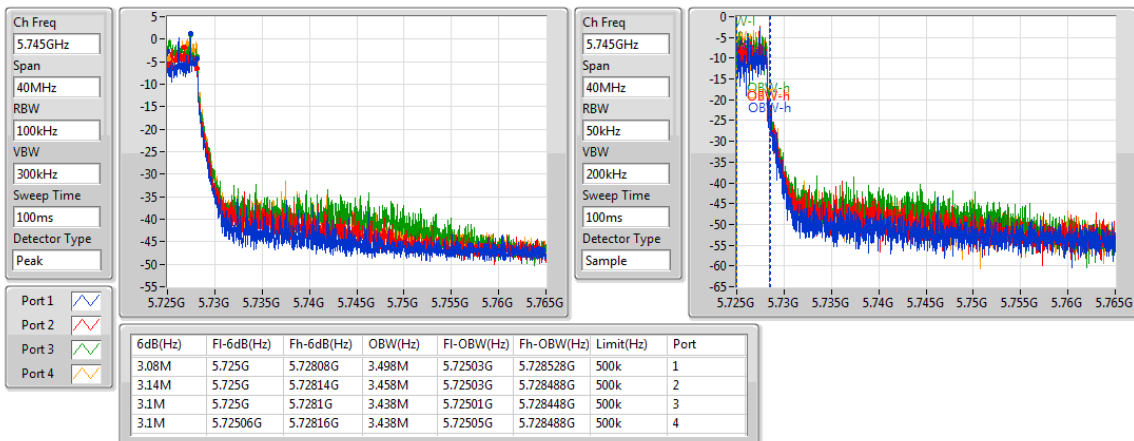
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz





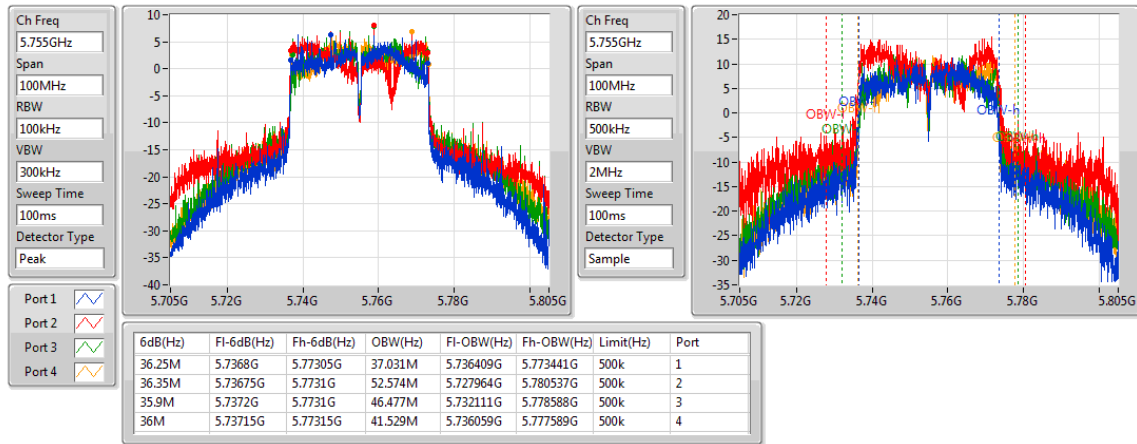
EBW Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix B.1

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

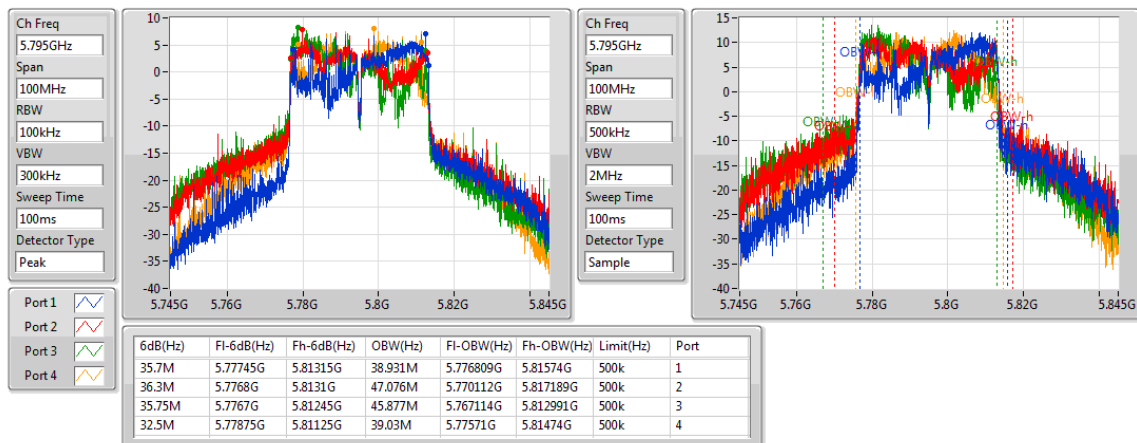
5755MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

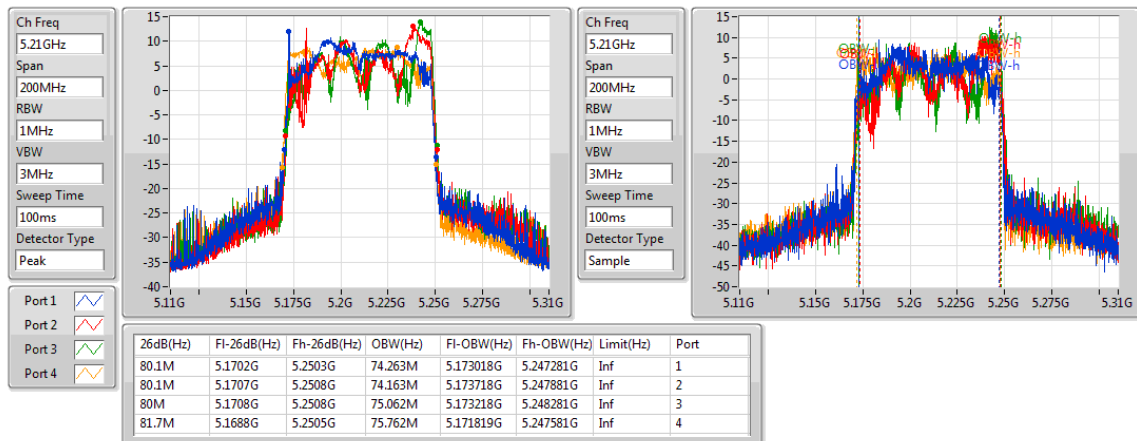
5795MHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

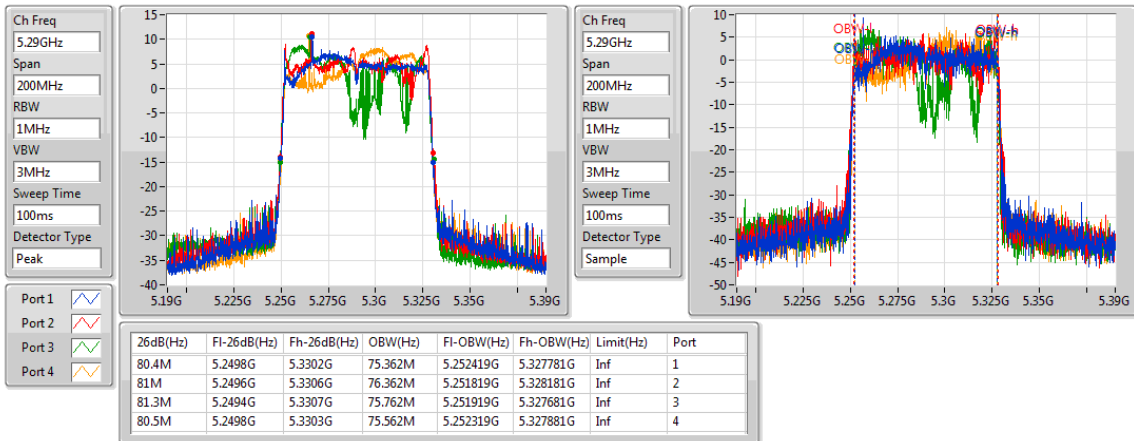
5210MHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

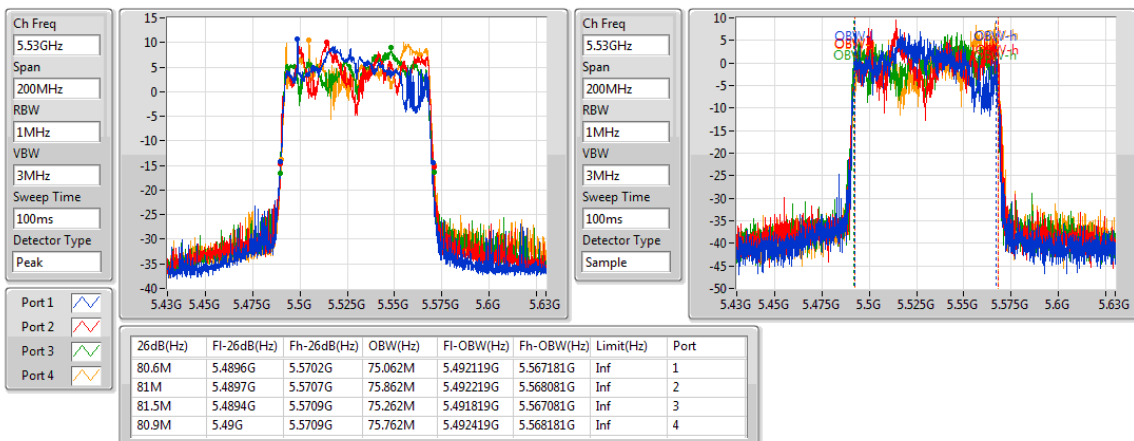
5290MHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

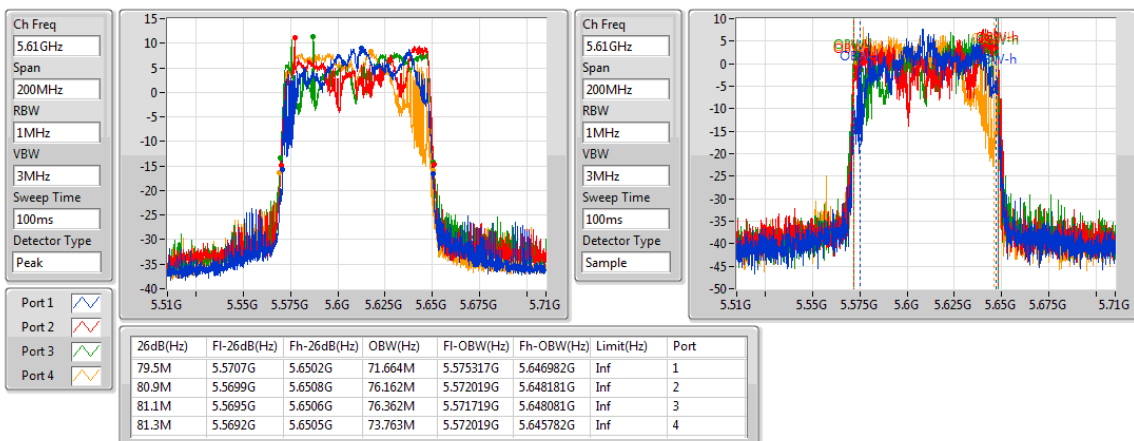
5530MHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

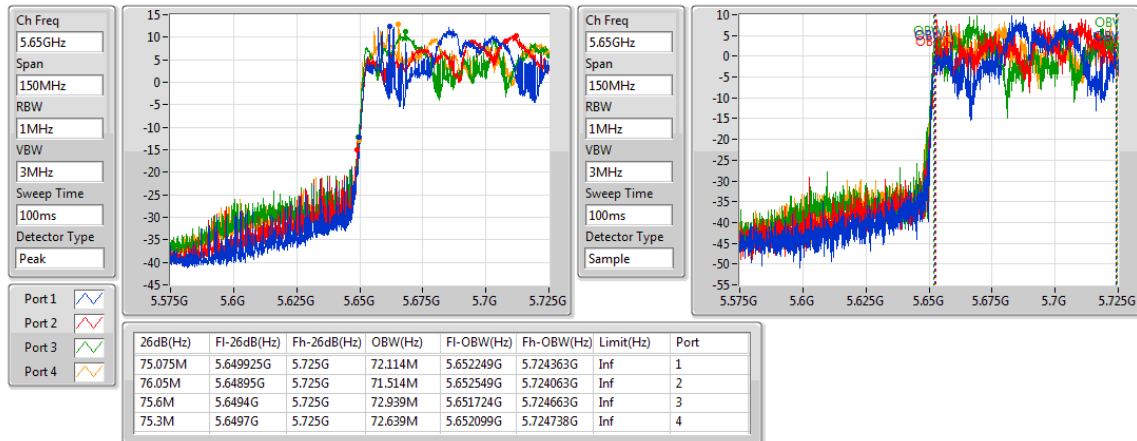
5610MHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

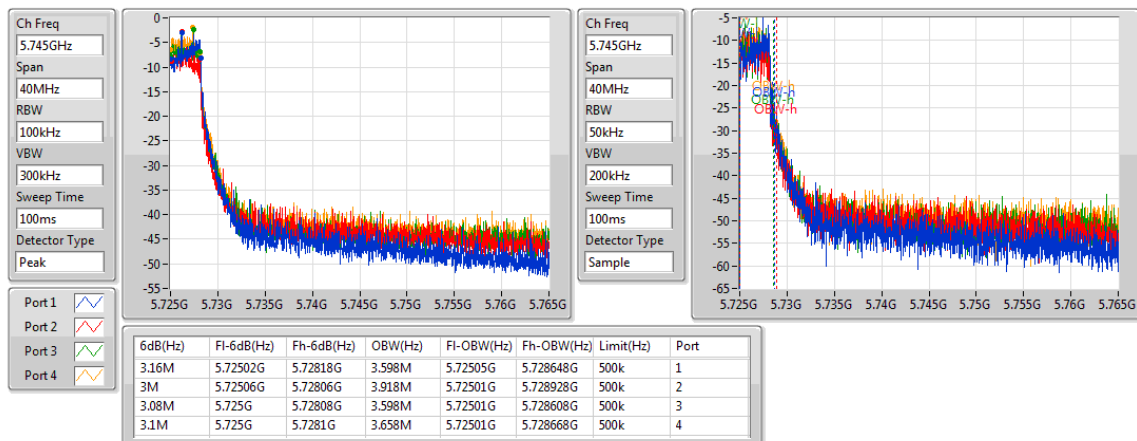
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

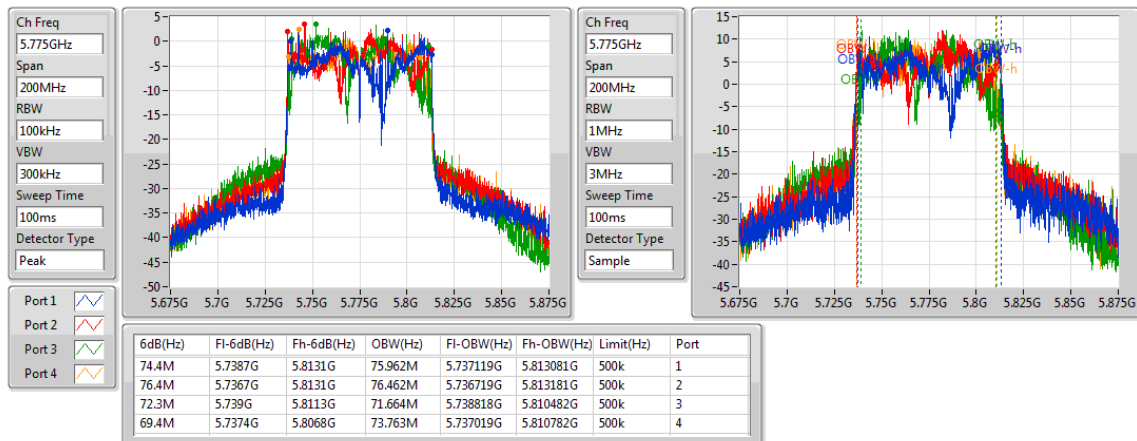
5690MHz Straddle 5.725-5.85GHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11a_(6Mbps)_4TX	-	-	-	-	-
5.15-5.25GHz	21.575M	16.592M	16M6D1D	21.325M	16.542M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	21.875M	17.791M	17M8D1D	21.375M	17.691M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	40.25M	36.282M	36M3D1D	39.7M	36.182M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	81.9M	75.862M	75M9D1D	81M	75.662M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	21.85M	17.816M	17M8D1D	20.925M	17.116M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	40.2M	36.282M	36M3D1D	38.95M	35.432M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	82.3M	75.762M	75M8D1D	79.7M	72.964M

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)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.4M	16.567M	21.55M	16.567M	21.55M	16.567M	21.4M	16.567M
5200MHz	Pass	Inf	21.475M	16.592M	21.575M	16.567M	21.55M	16.567M	21.4M	16.542M
5240MHz	Pass	Inf	21.375M	16.592M	21.55M	16.592M	21.475M	16.567M	21.325M	16.542M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.5M	17.766M	21.725M	17.766M	21.6M	17.741M	21.875M	17.716M
5200MHz	Pass	Inf	21.725M	17.741M	21.65M	17.716M	21.5M	17.741M	21.675M	17.741M
5240MHz	Pass	Inf	21.8M	17.791M	21.85M	17.691M	21.375M	17.741M	21.7M	17.766M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.8M	36.232M	40.2M	36.232M	39.95M	36.282M	39.7M	36.182M
5230MHz	Pass	Inf	39.85M	36.282M	40.25M	36.232M	39.7M	36.282M	39.9M	36.232M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81M	75.662M	81.9M	75.762M	81.3M	75.862M	81.1M	75.662M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.2M	17.491M	21.25M	17.816M	21.125M	17.116M	21.675M	17.766M
5200MHz	Pass	Inf	21.85M	17.766M	21.475M	17.616M	21.35M	17.391M	21.625M	17.716M
5240MHz	Pass	Inf	21.2M	17.791M	21.775M	17.516M	20.925M	17.141M	21.7M	17.791M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.8M	35.432M	39.4M	35.882M	39.6M	35.832M	39.6M	36.282M
5230MHz	Pass	Inf	39.7M	36.182M	39.55M	35.982M	38.95M	35.432M	40.2M	36.232M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	80M	73.363M	80.9M	74.863M	79.7M	72.964M	82.3M	75.762M

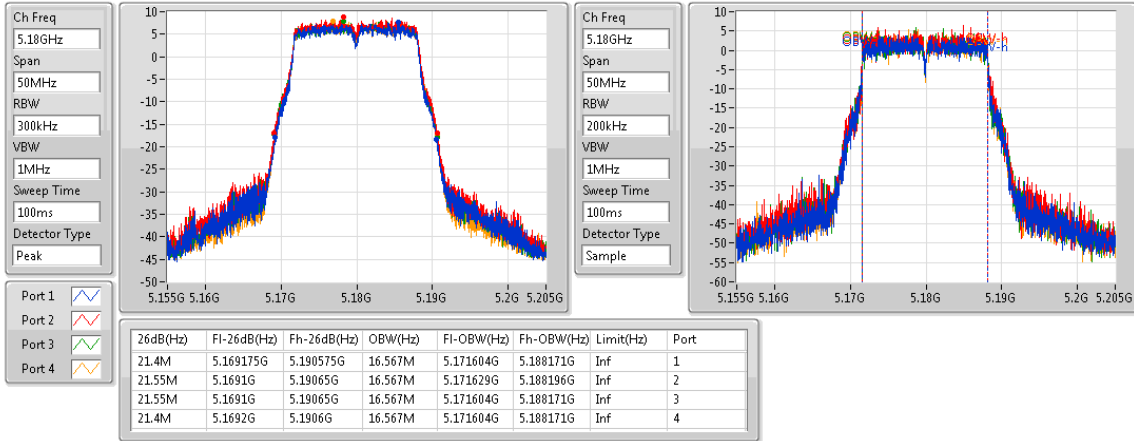
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

802.11a (6Mbps)_4TX

EBW

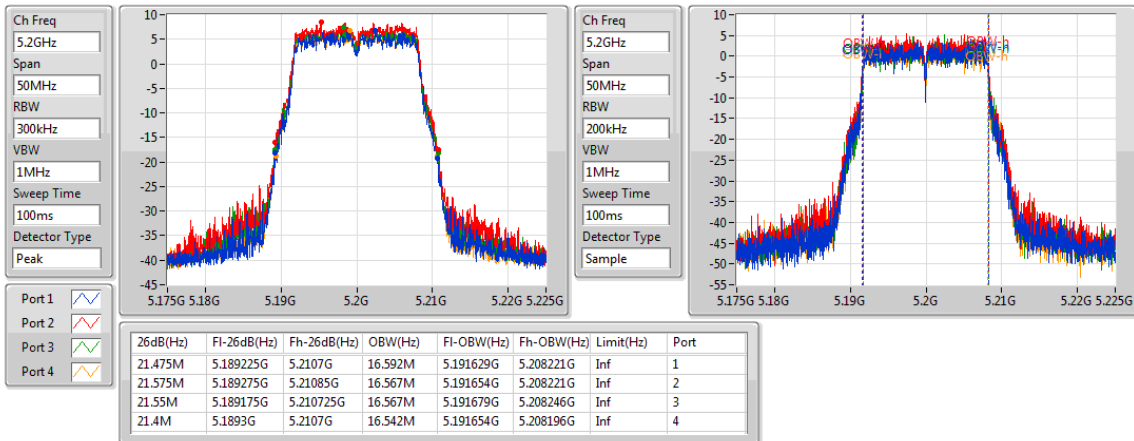
5180MHz



802.11a (6Mbps)_4TX

EBW

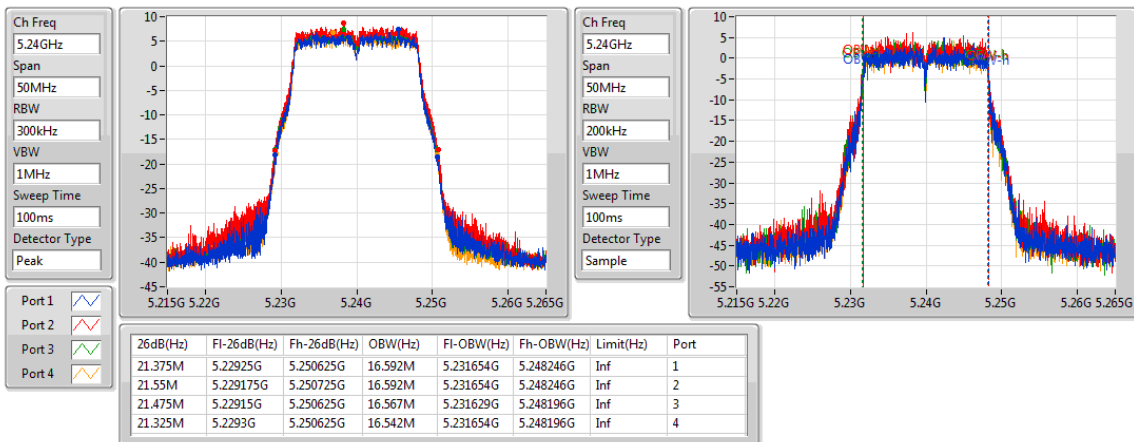
5200MHz

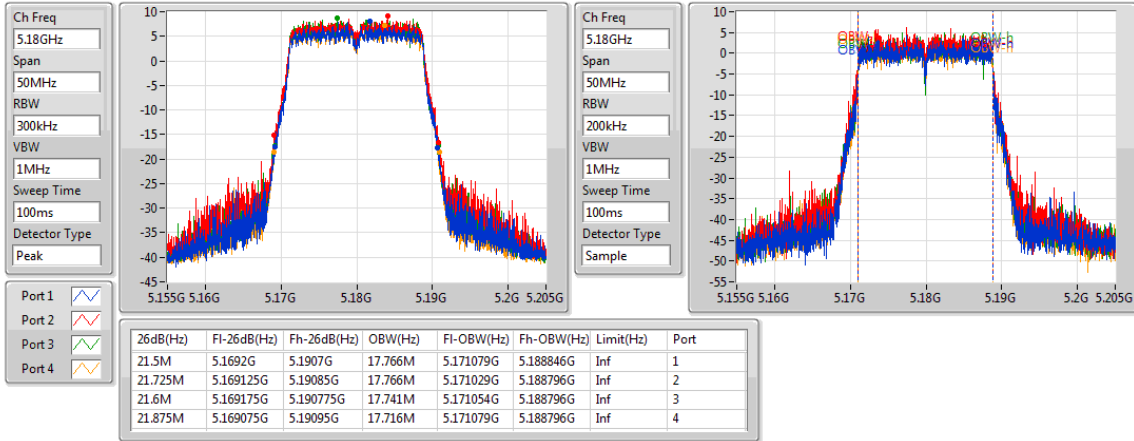
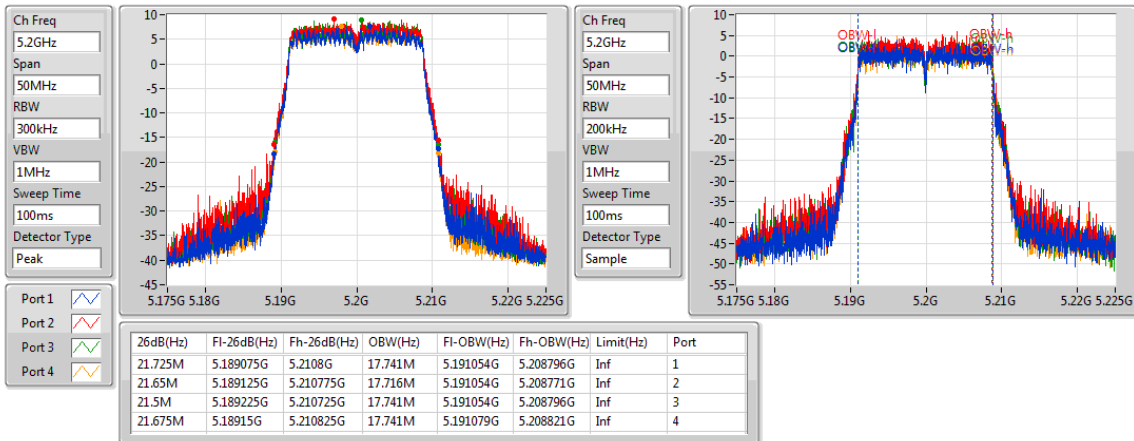
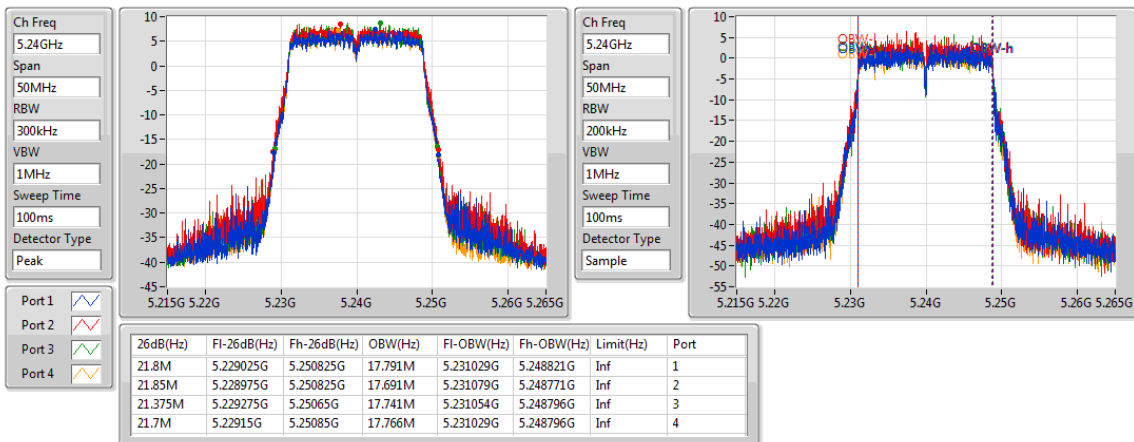


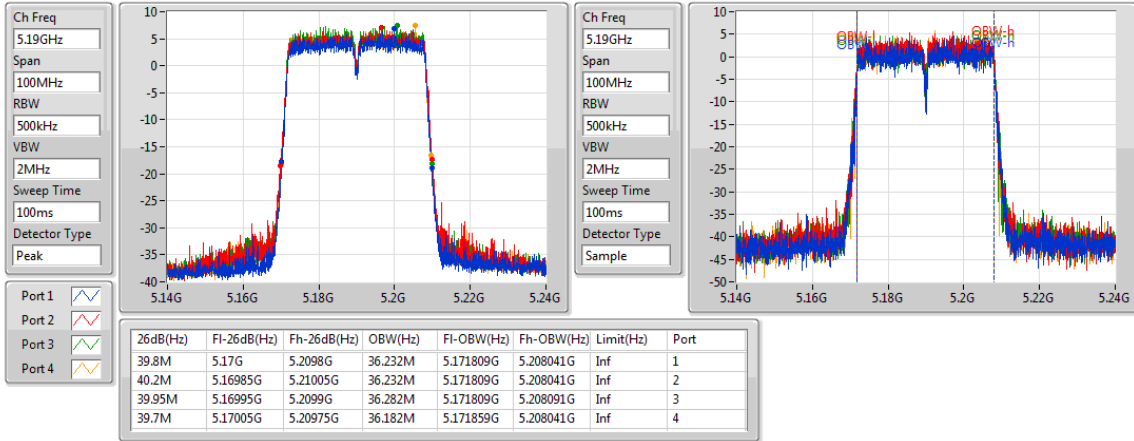
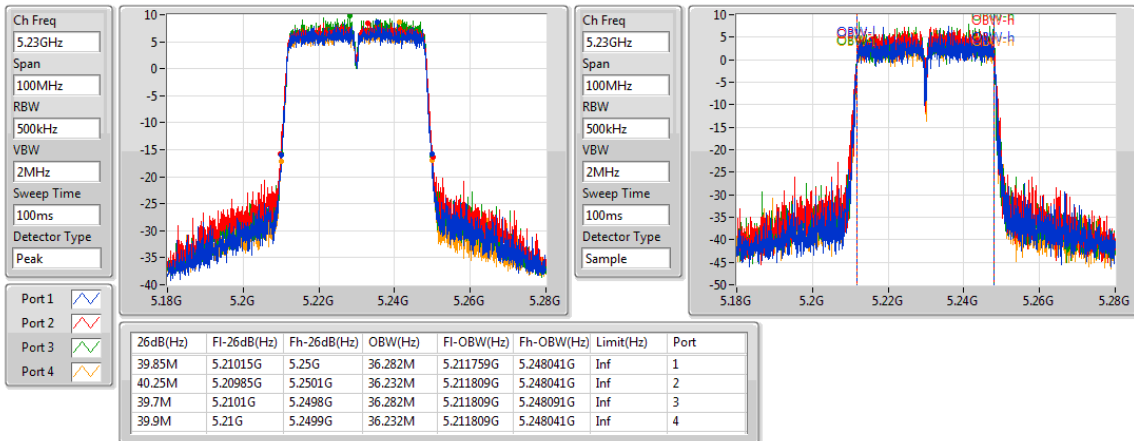
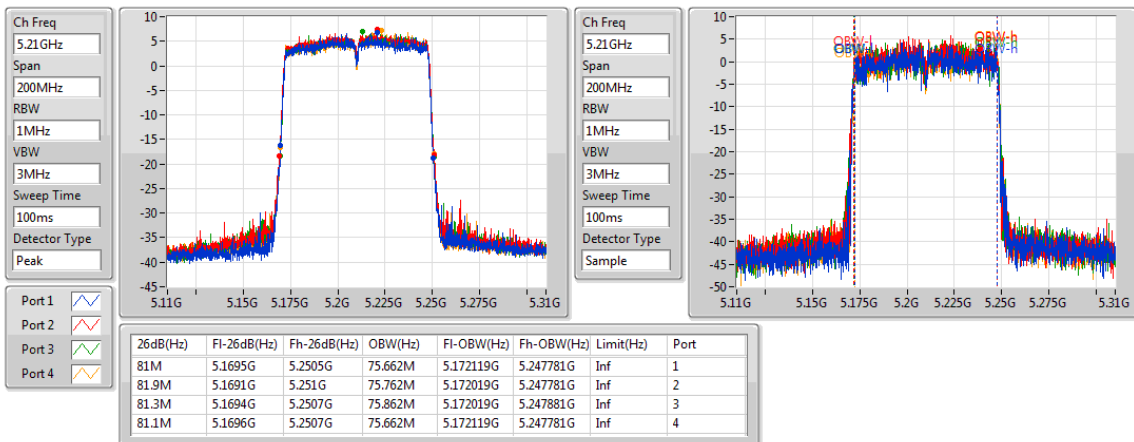
802.11a (6Mbps)_4TX

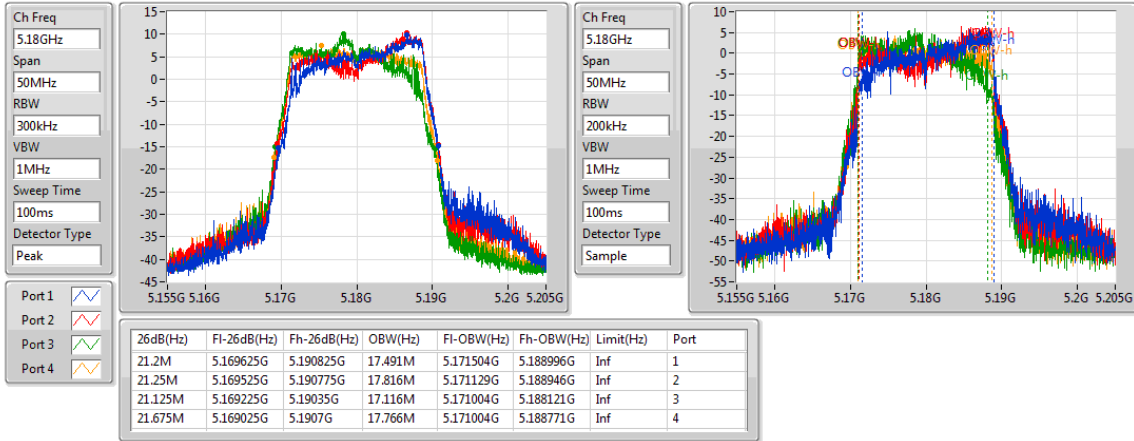
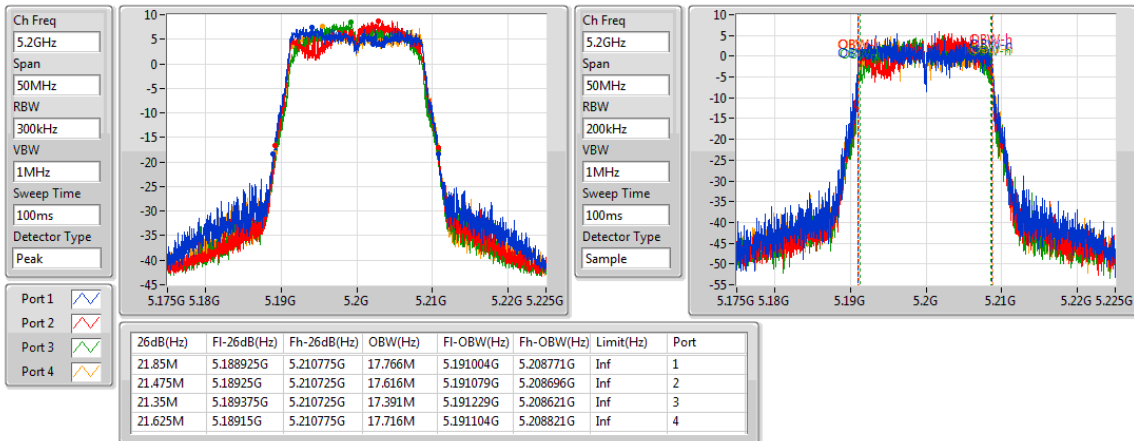
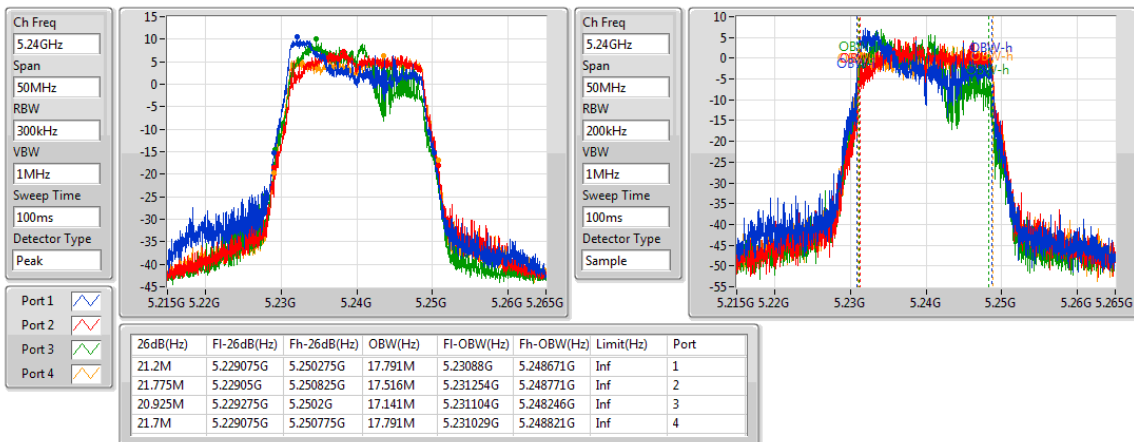
EBW

5240MHz



802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5180MHz

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5200MHz

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5240MHz


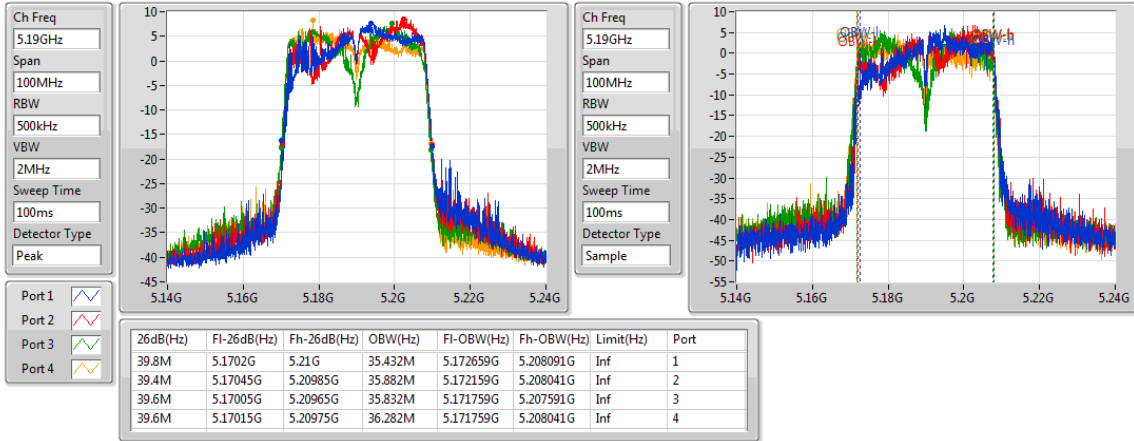
802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5190MHz

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5230MHz

802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5210MHz


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5180MHz

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5200MHz

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5240MHz


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

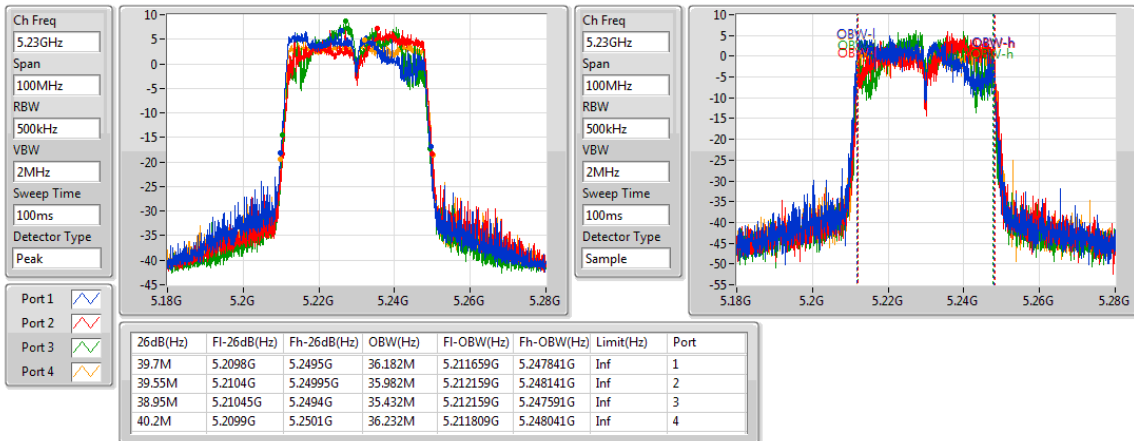
5190MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

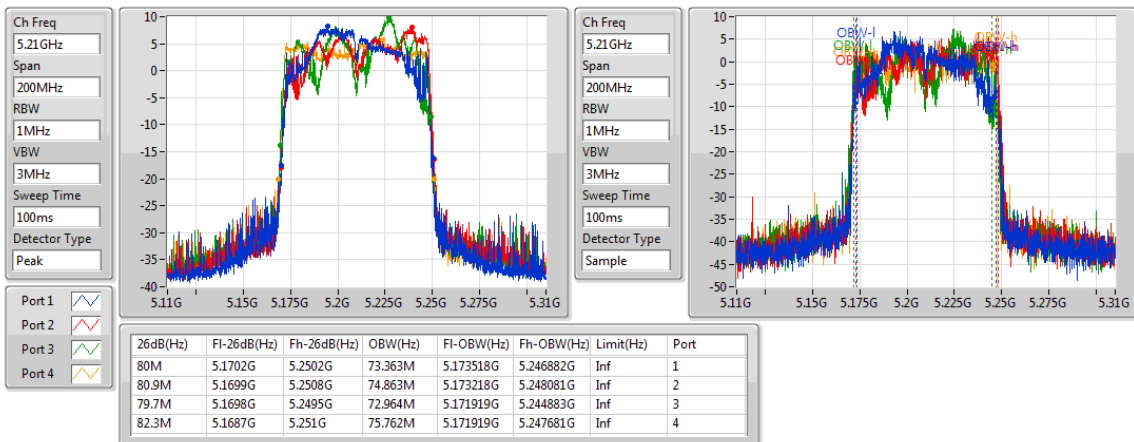
5230MHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz





Power Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11a_(6Mbps)_4TX	-	-	-	-
5.15-5.25GHz	28.79	0.75683	33.01	1.99986
5.25-5.35GHz	22.92	0.19588	27.14	0.51761
5.47-5.725GHz	23.13	0.20559	28.04	0.63680
5.725-5.85GHz	29.98	0.99541	34.86	3.06196
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-
5.15-5.25GHz	29.13	0.81846	33.35	2.16272
5.25-5.35GHz	23.25	0.21135	27.47	0.55847
5.47-5.725GHz	23.24	0.21086	28.15	0.65313
5.725-5.85GHz	29.98	0.99541	34.86	3.06196
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-
5.15-5.25GHz	28.57	0.71945	32.79	1.90108
5.25-5.35GHz	23.94	0.24774	28.16	0.65464
5.47-5.725GHz	23.93	0.24717	28.84	0.76560
5.725-5.85GHz	29.68	0.92897	34.56	2.85759
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-
5.15-5.25GHz	21.19	0.13152	25.41	0.34754
5.25-5.35GHz	21.18	0.13122	25.40	0.34674
5.47-5.725GHz	23.97	0.24946	28.88	0.77268
5.725-5.85GHz	26.85	0.48417	31.73	1.48936
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-
5.15-5.25GHz	28.21	0.66222	35.93	3.91742
5.25-5.35GHz	22.22	0.16672	29.94	0.98628
5.47-5.725GHz	21.87	0.15382	29.79	0.95280
5.725-5.85GHz	28.57	0.71945	35.95	3.93550
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-
5.15-5.25GHz	28.11	0.64714	35.83	3.82825
5.25-5.35GHz	22.21	0.16634	29.93	0.98401
5.47-5.725GHz	22.03	0.15959	29.95	0.98855
5.725-5.85GHz	28.60	0.72444	35.98	3.96278
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-
5.15-5.25GHz	23.03	0.20091	30.75	1.18850
5.25-5.35GHz	22.22	0.16672	29.94	0.98628
5.47-5.725GHz	22.12	0.16293	30.04	1.00925
5.725-5.85GHz	26.02	0.39994	33.40	2.18776



Power Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix C.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.22	18.54	19.49	19.34	18.16	24.94	30.00
5200MHz	Pass	4.22	22.12	23.61	22.93	21.99	28.73	30.00
5240MHz	Pass	4.22	22.19	23.51	22.85	22.43	28.79	30.00
5260MHz	Pass	4.22	16.11	17.76	16.81	16.61	22.89	23.98
5300MHz	Pass	4.22	16.03	17.50	16.67	16.40	22.71	23.98
5320MHz	Pass	4.22	16.23	17.71	16.79	16.74	22.92	23.98
5500MHz	Pass	4.91	16.34	17.76	17.03	16.56	22.98	23.98
5580MHz	Pass	4.91	16.39	17.87	16.82	17.23	23.13	23.98
5700MHz	Pass	4.91	15.81	17.50	16.54	16.29	22.60	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	4.91	14.33	16.02	15.02	14.79	21.11	22.94
5720MHz Straddle 5.725-5.85GHz	Pass	4.88	8.06	9.70	8.81	8.63	14.86	30.00
5745MHz	Pass	4.88	23.22	24.52	24.22	23.77	29.98	30.00
5785MHz	Pass	4.88	23.19	24.60	23.98	23.57	29.89	30.00
5825MHz	Pass	4.88	22.57	23.68	23.00	22.74	29.04	30.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.22	19.47	20.89	19.75	19.70	26.01	30.00
5200MHz	Pass	4.22	22.34	24.04	23.22	22.62	29.13	30.00
5240MHz	Pass	4.22	22.49	23.82	23.09	22.64	29.06	30.00
5260MHz	Pass	4.22	16.49	17.85	17.11	16.91	23.14	23.98
5300MHz	Pass	4.22	16.12	17.85	16.83	16.68	22.94	23.98
5320MHz	Pass	4.22	16.37	18.04	17.13	17.21	23.25	23.98
5500MHz	Pass	4.91	16.47	18.02	17.35	16.90	23.24	23.98
5580MHz	Pass	4.91	16.29	18.02	17.14	16.71	23.11	23.98
5700MHz	Pass	4.91	16.38	17.95	16.97	16.81	23.09	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	4.91	14.77	16.40	15.39	15.14	21.49	22.96
5720MHz Straddle 5.725-5.85GHz	Pass	4.88	9.06	10.59	9.74	9.48	15.77	30.00
5745MHz	Pass	4.88	23.12	24.60	24.24	23.72	29.98	30.00
5785MHz	Pass	4.88	23.11	24.63	23.91	23.73	29.90	30.00
5825MHz	Pass	4.88	22.34	23.49	22.62	22.54	28.79	30.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.22	15.22	16.76	16.03	15.77	22.00	30.00
5230MHz	Pass	4.22	21.87	23.32	22.57	22.30	28.57	30.00
5270MHz	Pass	4.22	17.16	18.73	17.82	17.81	23.94	23.98
5310MHz	Pass	4.22	15.00	16.65	15.89	15.43	21.81	23.98
5510MHz	Pass	4.91	15.04	16.88	15.87	15.28	21.85	23.98
5550MHz	Pass	4.91	16.90	18.75	17.90	17.66	23.87	23.98
5670MHz	Pass	4.91	16.91	18.70	18.20	17.30	23.86	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	4.91	17.14	18.78	17.94	17.60	23.93	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	4.88	6.70	8.24	7.73	6.85	13.45	30.00
5755MHz	Pass	4.88	22.73	24.30	23.53	23.07	29.47	30.00
5795MHz	Pass	4.88	22.98	24.70	23.57	23.17	29.68	30.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-



Power Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix C.1

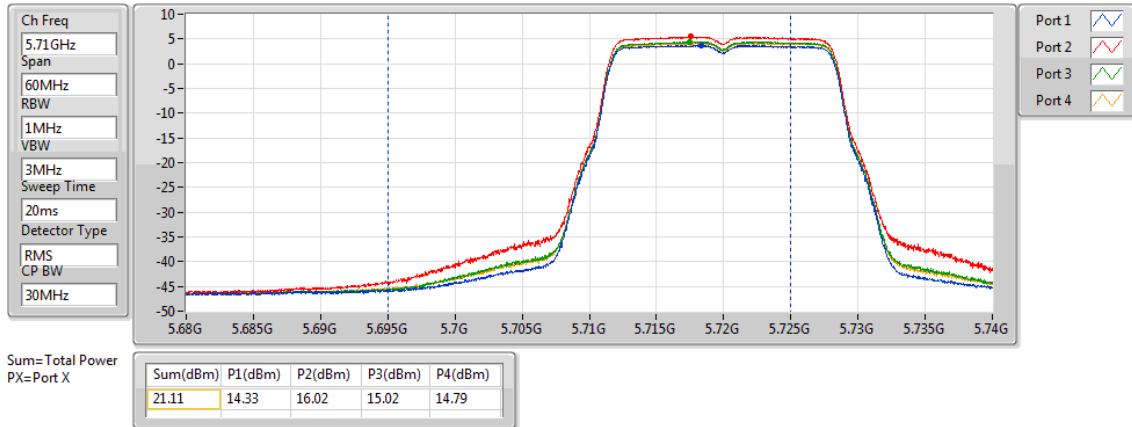
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
5210MHz	Pass	4.22	14.62	15.95	15.25	14.72	21.19	30.00
5290MHz	Pass	4.22	14.21	15.94	15.16	15.16	21.18	23.98
5530MHz	Pass	4.91	15.03	16.31	15.91	15.29	21.68	23.98
5610MHz	Pass	4.91	17.16	18.89	18.27	17.24	23.97	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	4.91	16.97	18.83	18.00	17.07	23.81	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	4.88	2.77	4.43	4.13	3.10	9.68	30.00
5775MHz	Pass	4.88	20.18	21.59	21.02	20.40	26.85	30.00
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.72	21.12	21.23	20.97	21.01	27.10	28.28
5200MHz	Pass	7.72	22.02	22.17	21.89	21.92	28.02	28.28
5240MHz	Pass	7.72	21.92	22.43	22.16	22.24	28.21	28.28
5260MHz	Pass	7.72	16.21	16.37	15.95	16.27	22.22	22.26
5300MHz	Pass	7.72	16.26	16.71	15.79	15.95	22.21	22.26
5320MHz	Pass	7.72	15.89	16.25	16.37	16.04	22.16	22.26
5500MHz	Pass	7.92	15.84	16.12	15.58	15.86	21.87	22.06
5580MHz	Pass	7.92	15.92	15.82	15.45	15.84	21.78	22.06
5700MHz	Pass	7.92	15.77	15.93	15.76	15.91	21.86	22.06
5720MHz Straddle 5.47-5.725GHz	Pass	7.92	14.79	15.25	14.52	14.91	20.90	20.97
5720MHz Straddle 5.725-5.85GHz	Pass	7.38	8.85	7.80	10.04	9.40	15.12	28.62
5745MHz	Pass	7.38	22.26	22.62	22.55	22.77	28.57	28.62
5785MHz	Pass	7.38	22.03	22.84	22.56	22.62	28.54	28.62
5825MHz	Pass	7.38	22.37	22.68	22.14	22.75	28.51	28.62
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.72	17.16	17.32	17.41	16.93	23.23	28.28
5230MHz	Pass	7.72	21.89	22.24	22.17	22.06	28.11	28.28
5270MHz	Pass	7.72	15.87	16.03	16.12	16.09	22.05	22.26
5310MHz	Pass	7.72	15.89	16.45	16.26	16.13	22.21	22.26
5510MHz	Pass	7.92	15.95	16.02	15.98	15.83	21.97	22.06
5550MHz	Pass	7.92	15.86	16.14	15.82	16.17	22.02	22.06
5670MHz	Pass	7.92	15.8	15.98	15.94	16.22	22.01	22.06
5710MHz Straddle 5.47-5.725GHz	Pass	7.92	15.85	16.05	15.85	16.26	22.03	22.06
5710MHz Straddle 5.725-5.85GHz	Pass	7.38	3.54	5.75	6.91	6.83	11.97	28.62
5755MHz	Pass	7.38	22.21	22.50	22.65	22.92	28.60	28.62
5795MHz	Pass	7.38	22.27	22.85	22.29	22.81	28.58	28.62
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.72	17.01	17.21	16.99	16.81	23.03	28.28
5290MHz	Pass	7.72	16.25	16.13	15.86	16.54	22.22	22.26
5530MHz	Pass	7.92	15.87	15.95	15.91	16.02	21.96	22.06
5610MHz	Fail	7.92	15.99	16.13	16.21	16.07	22.12	22.06
5690MHz Straddle 5.47-5.725GHz	Pass	7.92	15.88	16.03	15.56	15.92	21.87	22.06
5690MHz Straddle 5.725-5.85GHz	Pass	7.38	1.62	-0.51	1.57	3.21	7.69	28.62
5775MHz	Pass	7.38	19.67	20.04	20.15	20.11	26.02	28.62

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

802.11a_(6Mbps)_4TX

AV Power

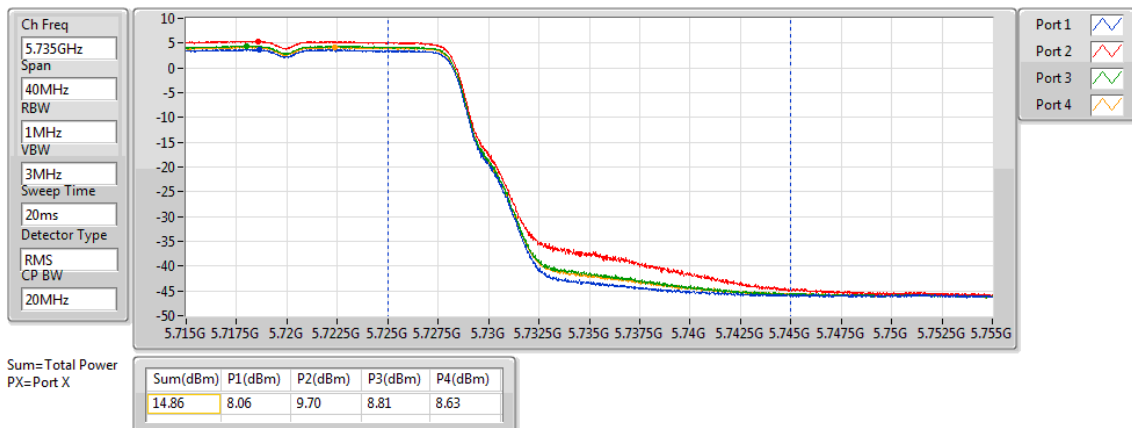
5720MHz Straddle 5.47-5.725GHz



802.11a_(6Mbps)_4TX

AV Power

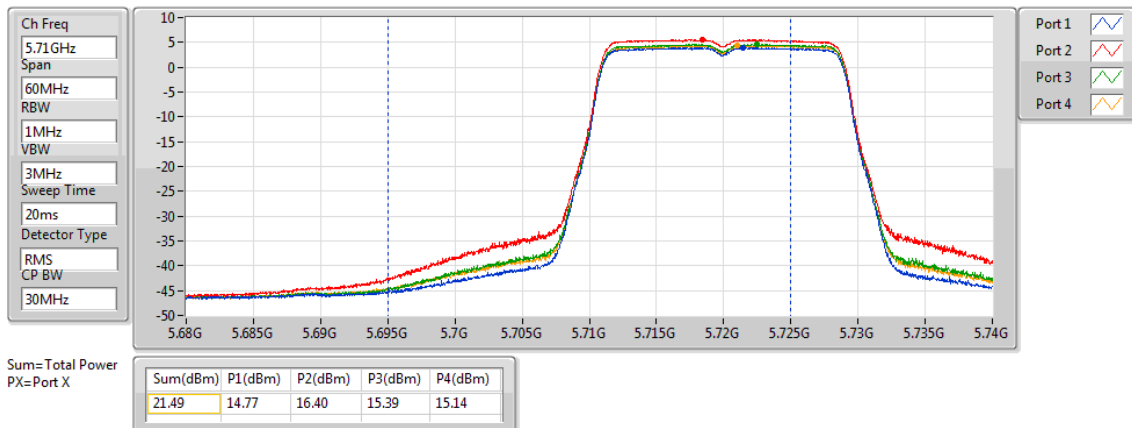
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT20_Nss1,(MCS0)_4TX

AV Power

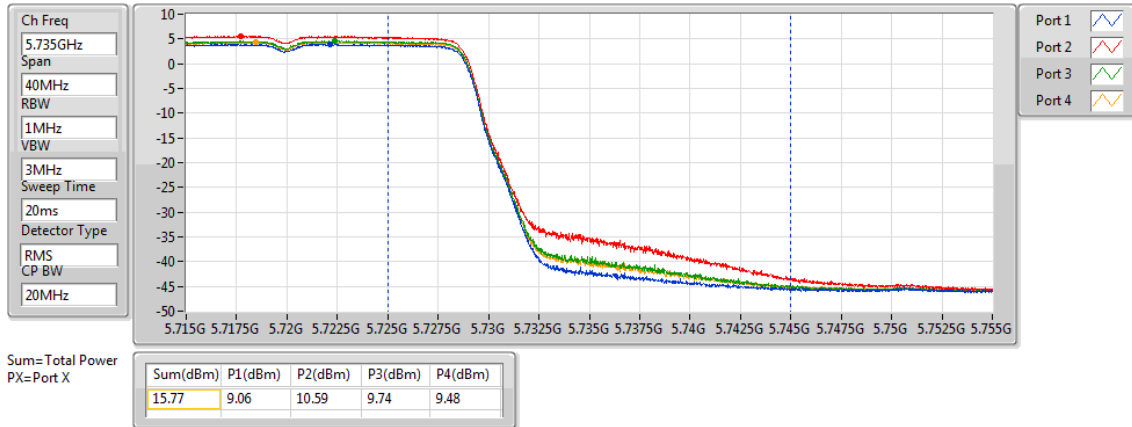
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20_Nss1,(MCS0)_4TX

AV Power

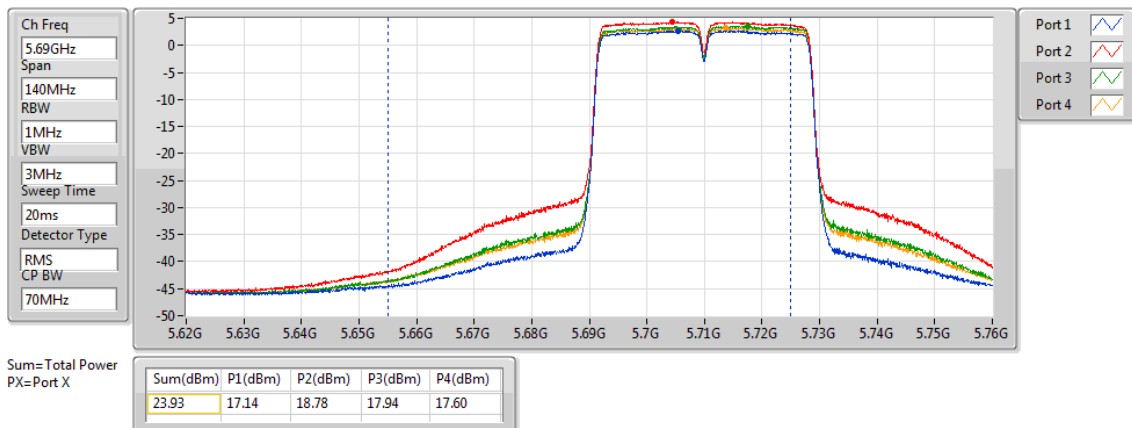
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT40_Nss1,(MCS0)_4TX

AV Power

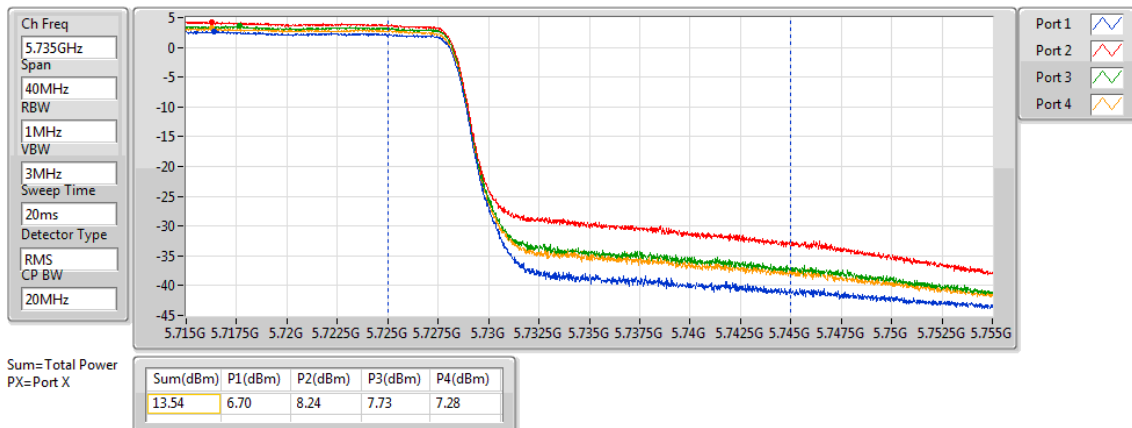
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT40_Nss1,(MCS0)_4TX

AV Power

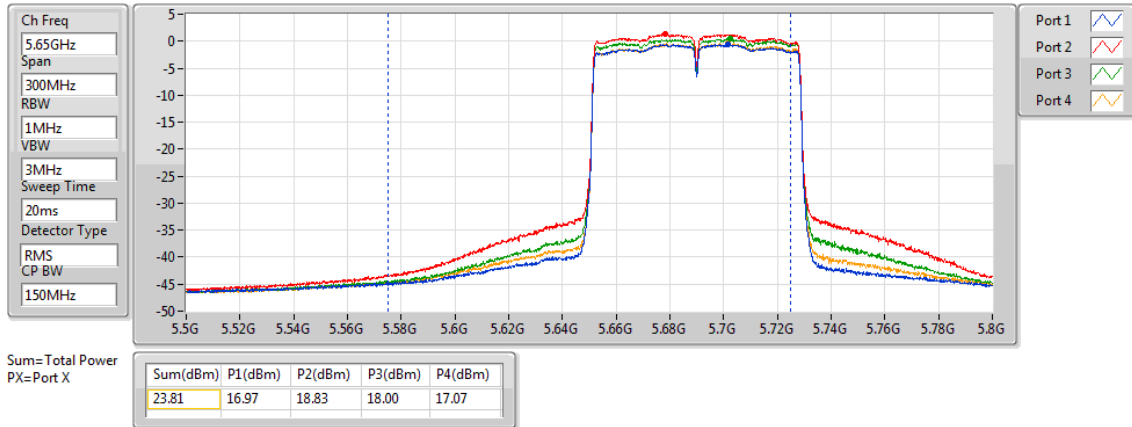
5710MHz Straddle 5.725-5.85GHz



802.11ac VHT80_Nss1,(MCS0)_4TX

AV Power

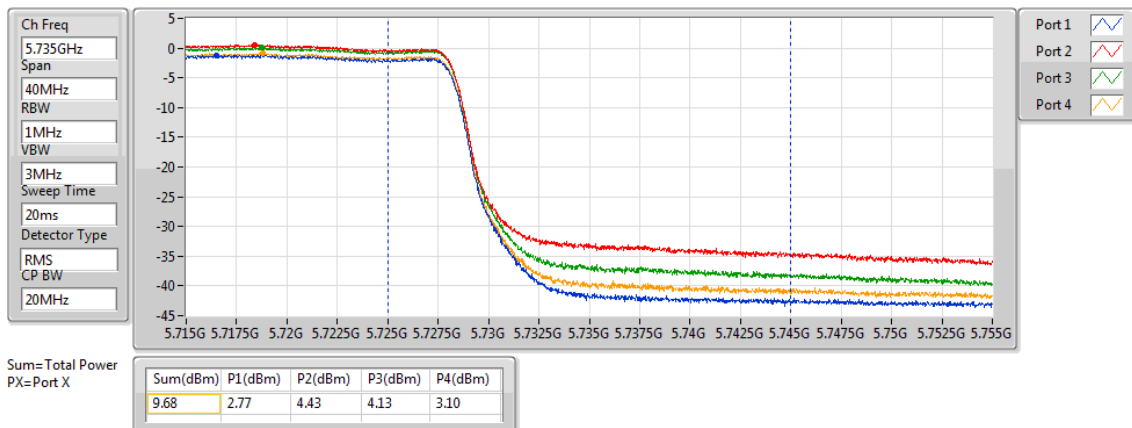
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT80_Nss1,(MCS0)_4TX

AV Power

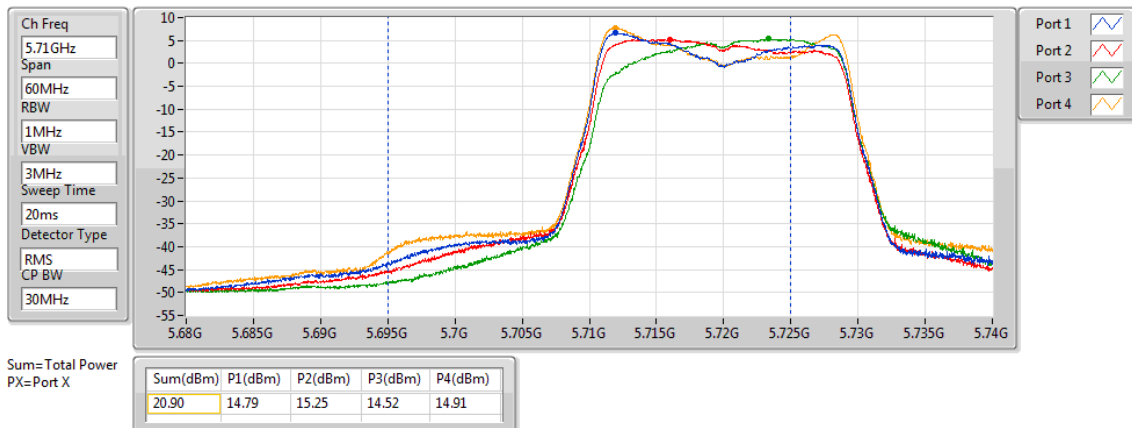
5690MHz Straddle 5.725-5.85GHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

AV Power

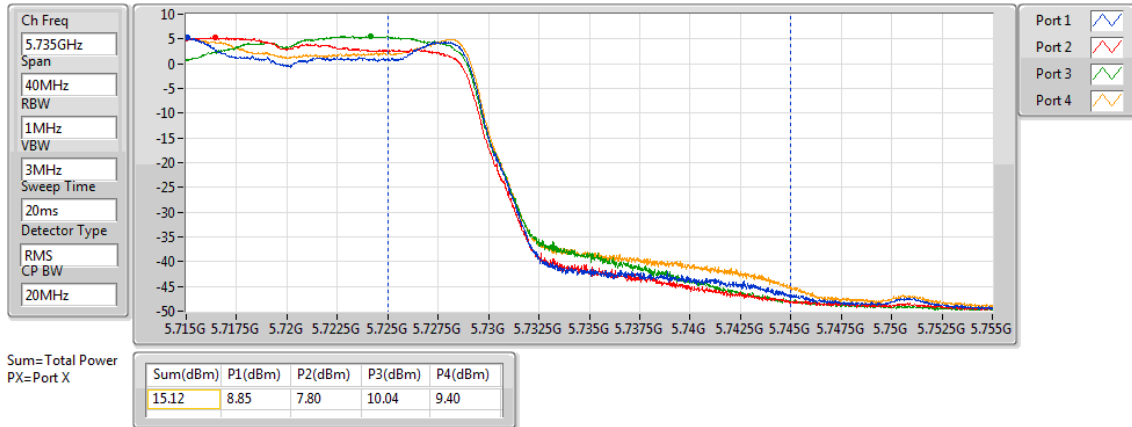
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

AV Power

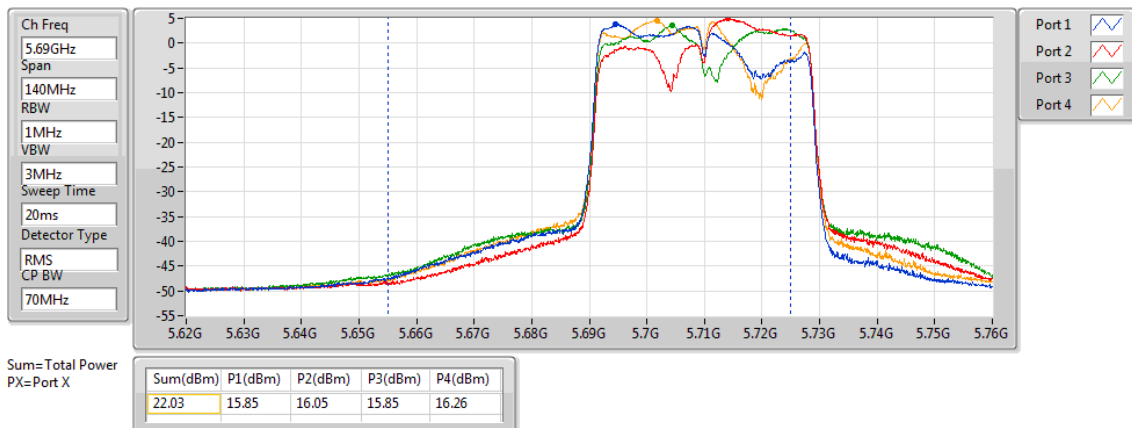
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

AV Power

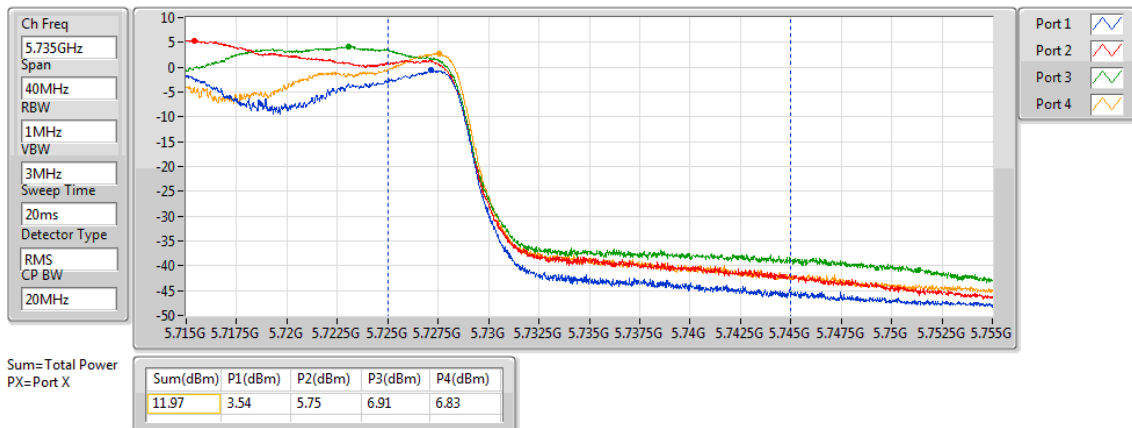
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

AV Power

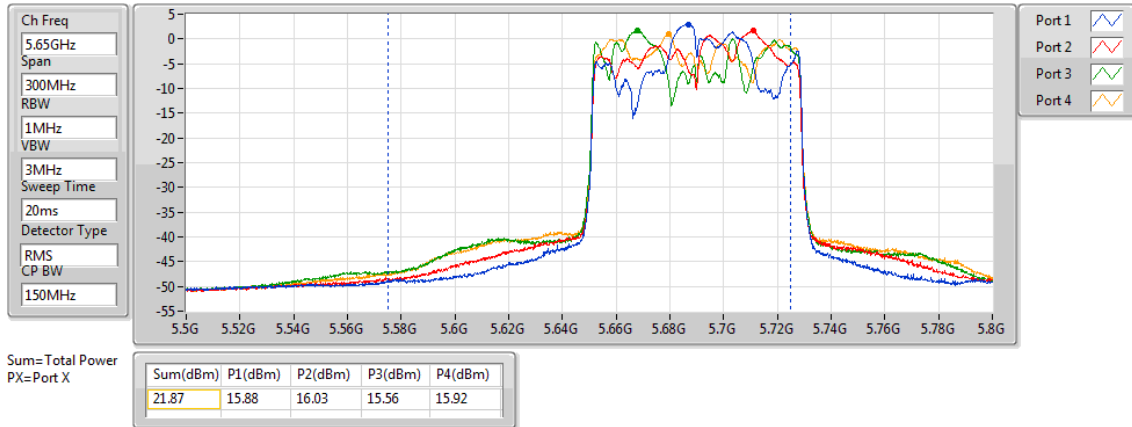
5710MHz Straddle 5.725-5.85GHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

AV Power

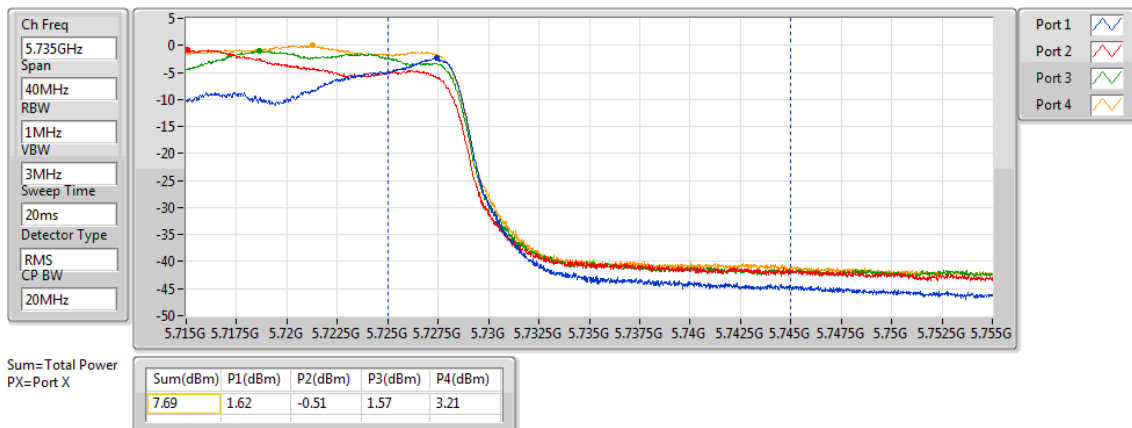
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz



**Summary**

Mode	Total Power (dBm)	Total Power (W)
802.11a_(6Mbps)_4TX	-	-
5.15-5.25GHz	22.92	0.19588
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-
5.15-5.25GHz	23.33	0.21528
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-
5.15-5.25GHz	23.80	0.23988
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-
5.15-5.25GHz	21.19	0.13152
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-
5.15-5.25GHz	22.24	0.16749
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-
5.15-5.25GHz	22.24	0.16749
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-
5.15-5.25GHz	22.23	0.16711



Power Result_For Client Mode Band 1

Appendix C.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.22	16.51	17.44	16.87	16.74	22.92	23.98
5200MHz	Pass	4.22	16.43	17.48	16.99	16.35	22.86	23.98
5240MHz	Pass	4.22	16.05	17.56	16.86	15.96	22.68	23.98
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.22	16.63	17.92	17.33	17.27	23.33	23.98
5200MHz	Pass	4.22	16.67	17.78	17	16.46	23.03	23.98
5240MHz	Pass	4.22	16.31	17.87	17.15	16.51	23.02	23.98
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.22	15.22	16.76	16.03	15.77	22.00	23.98
5230MHz	Pass	4.22	16.97	18.6	18.05	17.32	23.80	23.98
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.22	14.62	15.95	15.25	14.72	21.19	23.98
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.72	16.09	16.17	15.93	16.05	22.08	22.26
5200MHz	Pass	7.72	16.19	16.46	16.17	16.02	22.23	22.26
5240MHz	Pass	7.72	16.11	16.4	16.34	16.01	22.24	22.26
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.72	16.18	16.25	16.13	15.96	22.15	22.26
5230MHz	Pass	7.72	16.01	16.32	16.39	16.15	22.24	22.26
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.72	16.14	16.36	16.08	16.25	22.23	22.26

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



PSD Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix D.1

Summary

Mode	PD (dBm/RBW)
802.11a_(6Mbps)_4TX	-
5.15-5.25GHz	15.25
5.25-5.35GHz	9.26
5.47-5.725GHz	9.07
5.725-5.85GHz	14.76
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5.15-5.25GHz	15.24
5.25-5.35GHz	9.25
5.47-5.725GHz	9.04
5.725-5.85GHz	14.57
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5.15-5.25GHz	12.05
5.25-5.35GHz	7.49
5.47-5.725GHz	7.83
5.725-5.85GHz	11.59
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5.15-5.25GHz	1.46
5.25-5.35GHz	1.36
5.47-5.725GHz	4.73
5.725-5.85GHz	6.17
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
5.15-5.25GHz	15.26
5.25-5.35GHz	9.19
5.47-5.725GHz	9.03
5.725-5.85GHz	14.02
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
5.15-5.25GHz	12.31
5.25-5.35GHz	6.42
5.47-5.725GHz	6.73
5.725-5.85GHz	10.77
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-
5.15-5.25GHz	6.58
5.25-5.35GHz	2.85
5.47-5.725GHz	3.25
5.725-5.85GHz	5.06

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



PSD Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix D.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.72	5.46	6.34	6.12	5.07	11.75	15.28
5200MHz	Pass	7.72	8.85	10.09	9.23	8.48	15.12	15.28
5240MHz	Pass	7.72	8.80	9.95	9.31	9.00	15.25	15.28
5260MHz	Pass	7.72	2.62	4.08	3.19	3.28	9.26	9.28
5300MHz	Pass	7.72	2.56	3.93	3.14	3.02	9.15	9.28
5320MHz	Pass	7.72	2.62	4.12	3.15	3.08	9.24	9.28
5500MHz	Pass	7.92	2.21	4.10	3.08	2.70	9.01	9.08
5580MHz	Pass	7.92	2.27	4.12	3.14	2.84	9.07	9.08
5700MHz	Pass	7.92	2.17	3.84	2.89	2.71	8.92	9.08
5720MHz Straddle 5.47-5.725GHz	Pass	7.92	2.15	3.85	2.91	2.63	8.91	9.08
5720MHz Straddle 5.725-5.85GHz	Pass	7.38	0.37	2.02	1.08	0.95	7.11	28.62
5745MHz	Pass	7.38	8.05	9.38	9.20	8.62	14.72	28.62
5785MHz	Pass	7.38	8.20	9.49	9.02	8.53	14.76	28.62
5825MHz	Pass	7.38	7.35	8.40	7.90	7.38	13.72	28.62
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.72	5.47	6.88	6.19	5.78	12.04	15.28
5200MHz	Pass	7.72	8.61	10.20	9.37	8.84	15.24	15.28
5240MHz	Pass	7.72	8.61	10.04	9.34	8.91	15.17	15.28
5260MHz	Pass	7.72	2.50	4.12	3.26	3.07	9.25	9.28
5300MHz	Pass	7.72	2.44	4.09	3.10	2.98	9.13	9.28
5320MHz	Pass	7.72	2.43	4.12	3.23	2.96	9.17	9.28
5500MHz	Pass	7.92	2.30	3.87	3.22	2.73	9.02	9.08
5580MHz	Pass	7.92	2.03	3.96	3.00	2.60	8.90	9.08
5700MHz	Pass	7.92	2.42	4.04	3.04	2.82	9.03	9.08
5720MHz Straddle 5.47-5.725GHz	Pass	7.92	2.39	4.01	3.02	2.80	9.04	9.08
5720MHz Straddle 5.725-5.85GHz	Pass	7.38	0.69	2.24	1.43	1.17	7.40	28.62
5745MHz	Pass	7.38	7.82	9.11	8.88	8.38	14.47	28.62
5785MHz	Pass	7.38	7.96	9.35	8.66	8.40	14.57	28.62
5825MHz	Pass	7.38	6.79	7.99	7.35	7.03	13.21	28.62
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.72	-1.24	0.13	-0.66	-0.95	5.28	15.28
5230MHz	Pass	7.72	5.42	6.99	6.12	5.84	12.05	15.28
5270MHz	Pass	7.72	0.74	2.41	1.63	1.30	7.49	9.28
5310MHz	Pass	7.72	-1.52	0.16	-0.61	-1.07	5.23	9.28
5510MHz	Pass	7.92	-1.91	0.01	-0.94	-1.56	4.89	9.08
5550MHz	Pass	7.92	-0.08	2.11	1.05	0.53	6.92	9.08
5670MHz	Pass	7.92	0.52	2.23	1.43	0.86	7.18	9.08
5710MHz Straddle 5.47-5.725GHz	Pass	7.92	1.09	2.77	1.94	1.61	7.83	9.08
5710MHz Straddle 5.725-5.85GHz	Pass	7.38	-0.88	0.71	0.16	-0.24	5.95	28.62
5755MHz	Pass	7.38	4.80	6.22	5.52	5.06	11.40	28.62
5795MHz	Pass	7.38	4.98	6.62	5.59	5.18	11.59	28.62
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-



PSD Result For Master Mode Band 1~4 and Client Mode Band 2~4

Appendix D.1

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
5210MHz	Pass	7.72	-5.18	-3.80	-4.22	-4.87	1.46	15.28
5290MHz	Pass	7.72	-5.53	-3.60	-4.47	-5.03	1.36	9.28
5530MHz	Pass	7.92	-5.89	-4.04	-4.74	-5.34	0.97	9.08
5610MHz	Pass	7.92	-2.34	-0.55	-1.08	-2.11	4.46	9.08
5690MHz Straddle 5.47-5.725GHz	Pass	7.92	-2.07	-0.16	-1.06	-1.89	4.73	9.08
5690MHz Straddle 5.725-5.85GHz	Pass	7.38	-4.71	-3.12	-3.30	-4.48	2.10	28.62
5775MHz	Pass	7.38	-0.48	1.00	0.47	-0.16	6.17	28.62
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.72	9.49	11.47	9.32	8.05	14.80	15.28
5200MHz	Pass	7.72	8.64	10.38	10.56	8.71	15.18	15.28
5240MHz	Pass	7.72	8.65	10.19	11.68	9.49	15.26	15.28
5260MHz	Pass	7.72	2.90	3.76	3.47	3.16	8.84	9.28
5300MHz	Pass	7.72	3.35	4.65	4.73	3.62	9.19	9.28
5320MHz	Pass	7.72	2.56	4.08	5.27	2.65	9.11	9.28
5500MHz	Pass	7.92	2.56	5.55	2.87	3.82	8.81	9.08
5580MHz	Pass	7.92	5.03	3.26	4.02	2.65	8.68	9.08
5700MHz	Pass	7.92	4.25	4.37	3.92	3.68	8.77	9.08
5720MHz Straddle 5.47-5.725GHz	Pass	7.92	4.89	3.56	3.88	5.65	9.03	9.08
5720MHz Straddle 5.725-5.85GHz	Pass	7.38	0.76	0.11	1.93	1.98	6.55	28.62
5745MHz	Pass	7.38	6.90	8.78	8.46	8.87	13.11	28.62
5785MHz	Pass	7.38	9.85	7.55	7.52	10.75	14.02	28.62
5825MHz	Pass	7.38	6.50	8.41	8.21	8.06	13.15	28.62
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.72	2.02	3.99	4.02	1.17	7.85	15.28
5230MHz	Pass	7.72	5.99	8.41	8.65	5.71	12.31	15.28
5270MHz	Pass	7.72	0.40	0.38	3.06	0.20	6.17	9.28
5310MHz	Pass	7.72	-0.19	2.00	3.14	-0.19	6.42	9.28
5510MHz	Pass	7.92	-0.08	2.62	1.07	1.22	5.88	9.08
5550MHz	Pass	7.92	-0.21	2.51	0.51	2.89	5.93	9.08
5670MHz	Pass	7.92	1.11	1.92	0.35	2.48	5.74	9.08
5710MHz Straddle 5.47-5.725GHz	Pass	7.92	2.09	3.42	1.69	2.93	6.73	9.08
5710MHz Straddle 5.725-5.85GHz	Pass	7.38	-3.30	-1.53	0.30	-0.59	4.29	28.62
5755MHz	Pass	7.38	5.46	5.99	6.29	6.01	10.50	28.62
5795MHz	Pass	7.38	6.74	6.16	7.62	6.49	10.77	28.62
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.72	0.44	3.06	4.65	-1.13	6.58	15.28
5290MHz	Pass	7.72	-1.84	-0.21	-0.69	-1.13	2.85	9.28
5530MHz	Pass	7.92	-0.80	0.11	-1.79	-0.15	2.84	9.08
5610MHz	Pass	7.92	-0.68	-0.40	-1.68	-1.40	2.70	9.08
5690MHz Straddle 5.47-5.725GHz	Pass	7.92	1.11	-0.11	0.17	-0.60	3.25	9.08
5690MHz Straddle 5.725-5.85GHz	Pass	7.38	-5.16	-7.62	-5.39	-4.37	0.01	28.62
5775MHz	Pass	7.38	0.67	2.18	2.43	0.81	5.06	28.62

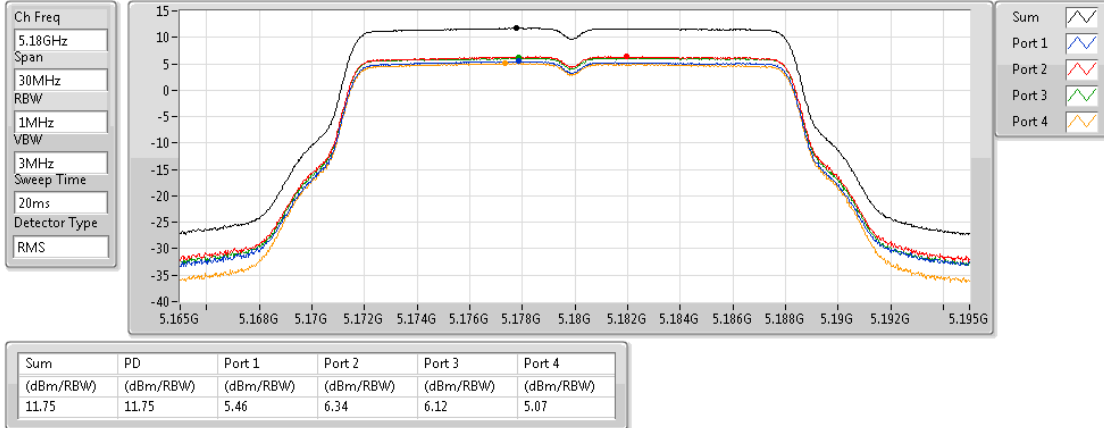
DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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

802.11a_(6Mbps)_4TX

PSD

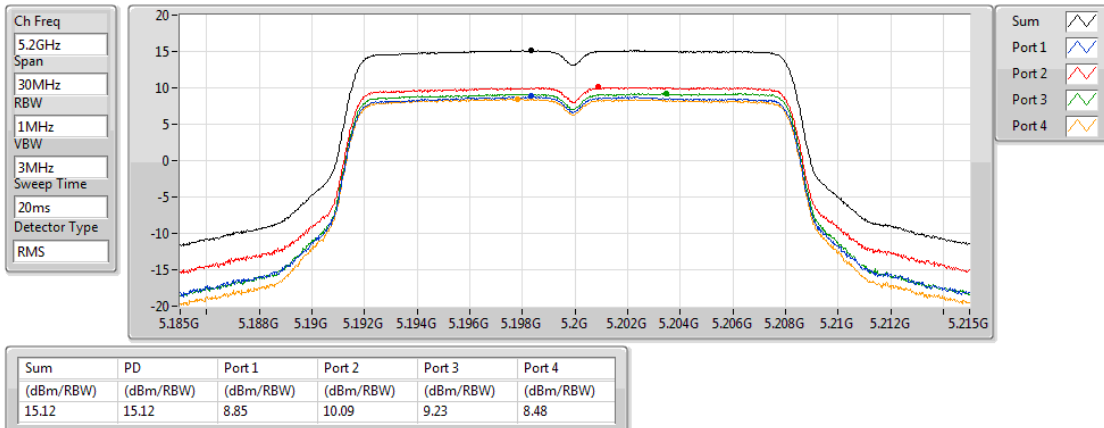
5180MHz



802.11a_(6Mbps)_4TX

PSD

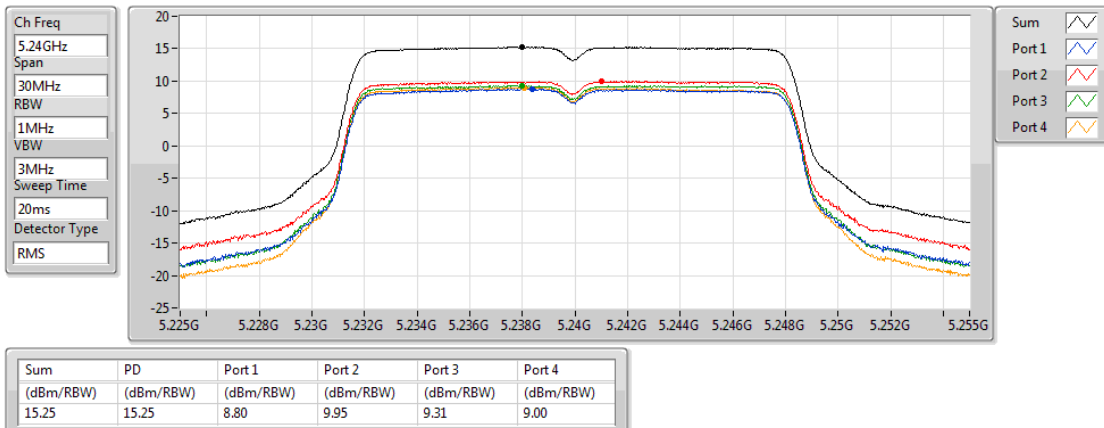
5200MHz



802.11a_(6Mbps)_4TX

PSD

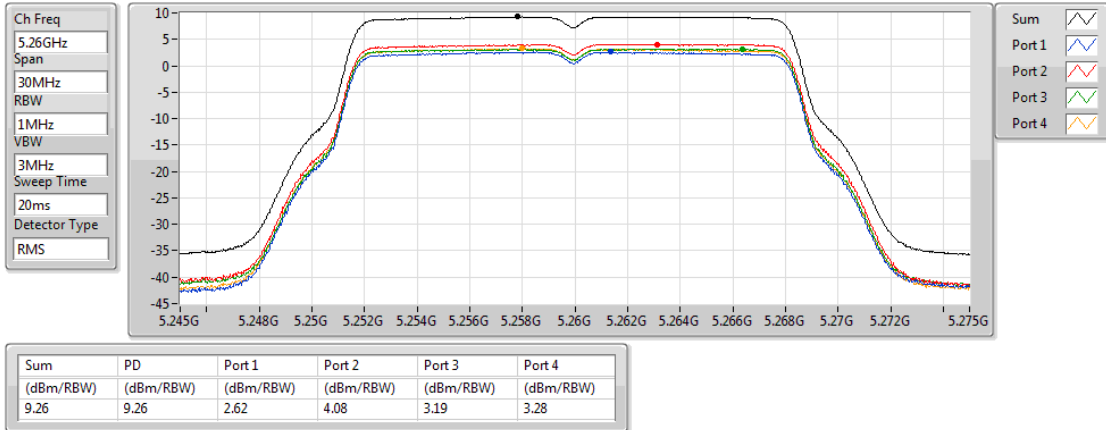
5240MHz



802.11a_(6Mbps)_4TX

PSD

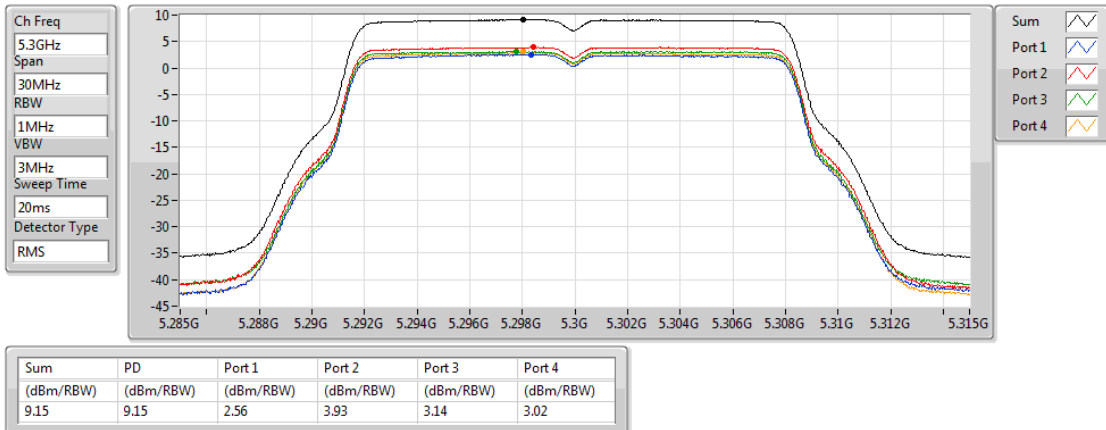
5260MHz



802.11a_(6Mbps)_4TX

PSD

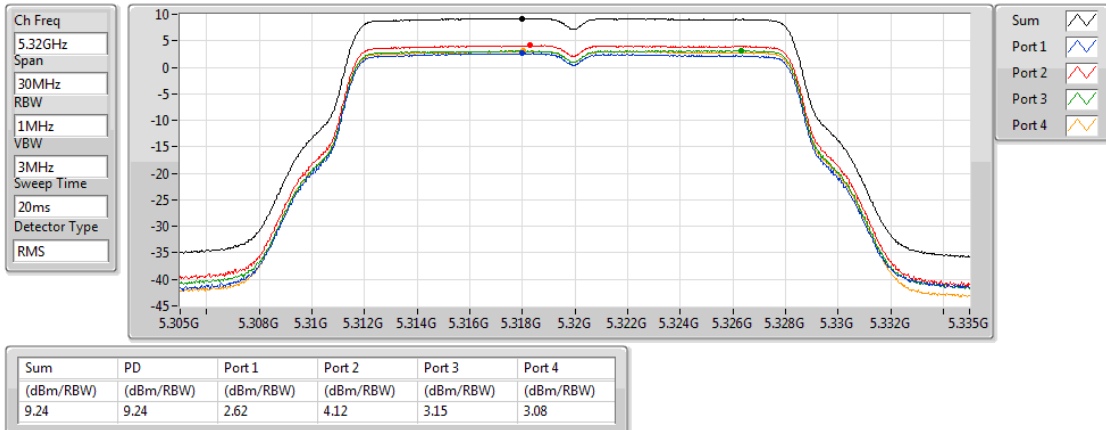
5300MHz



802.11a_(6Mbps)_4TX

PSD

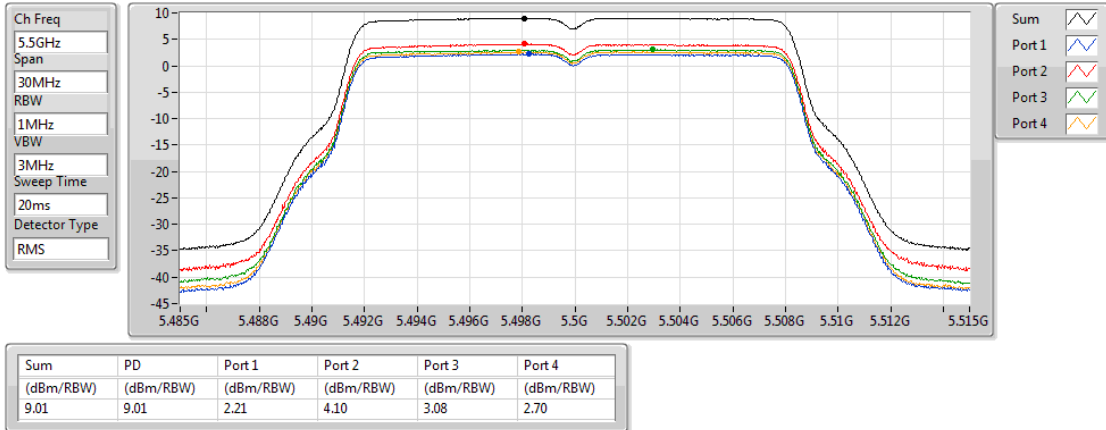
5320MHz



802.11a_(6Mbps)_4TX

PSD

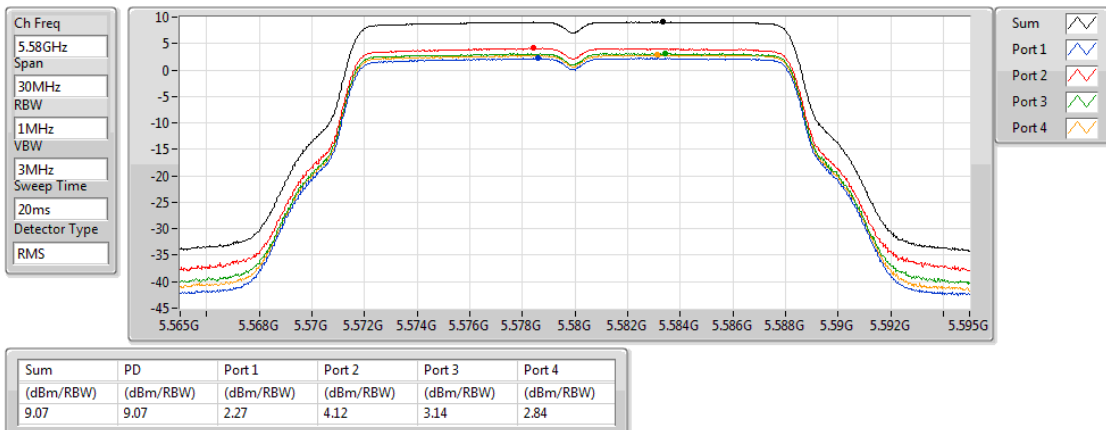
5500MHz



802.11a_(6Mbps)_4TX

PSD

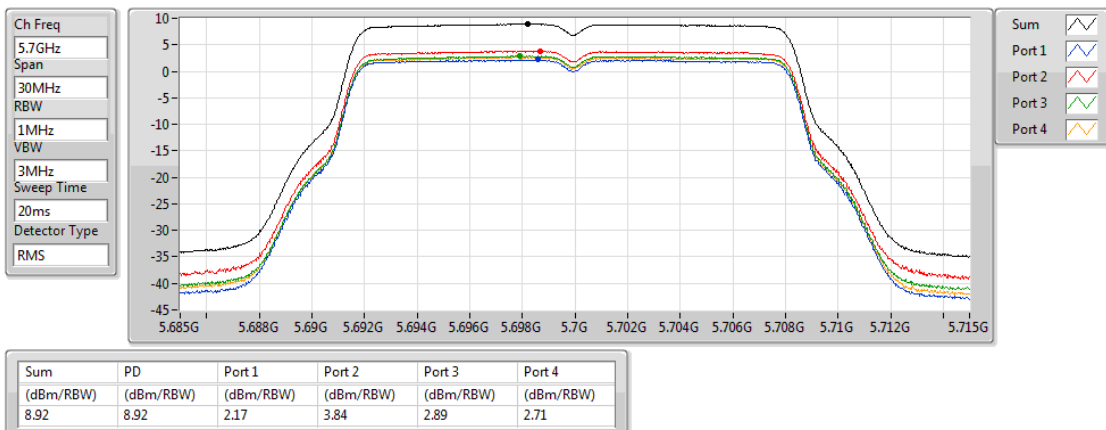
5580MHz



802.11a_(6Mbps)_4TX

PSD

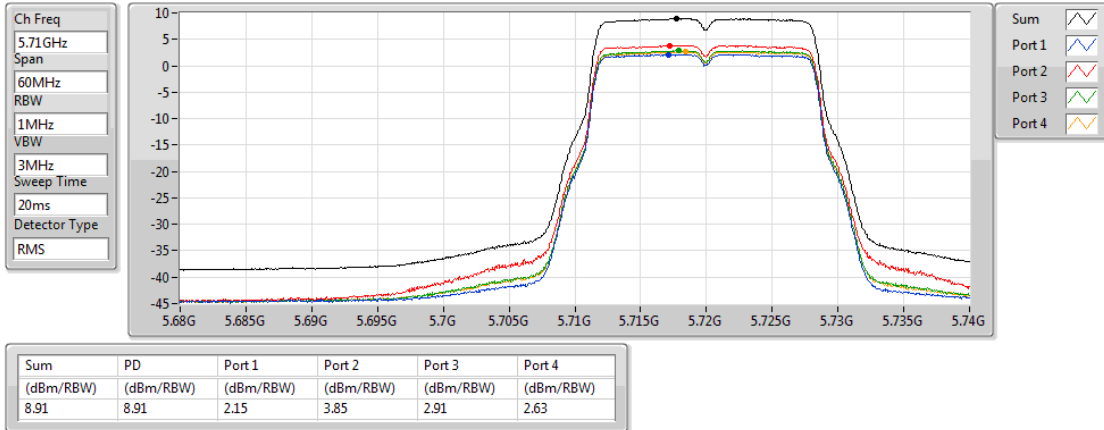
5700MHz



802.11a_(6Mbps)_4TX

PSD

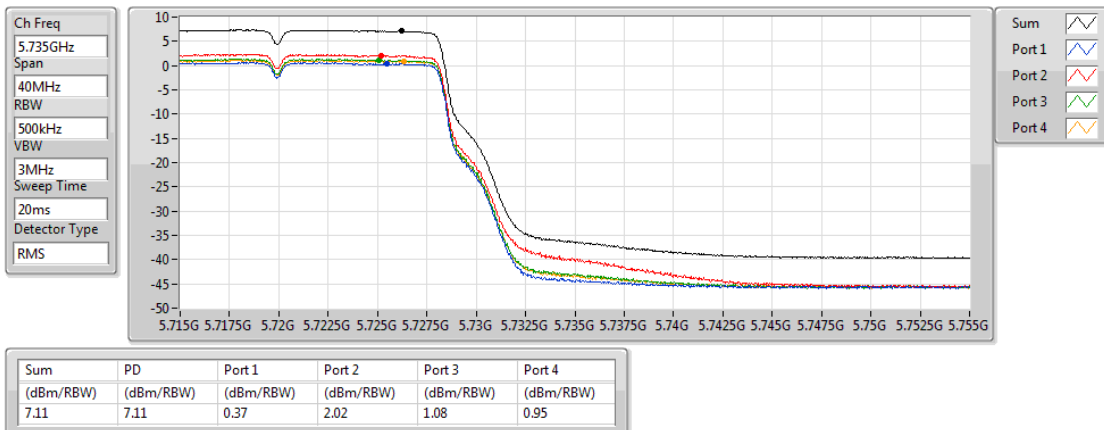
5720MHz Straddle 5.47-5.725GHz



802.11a_(6Mbps)_4TX

PSD

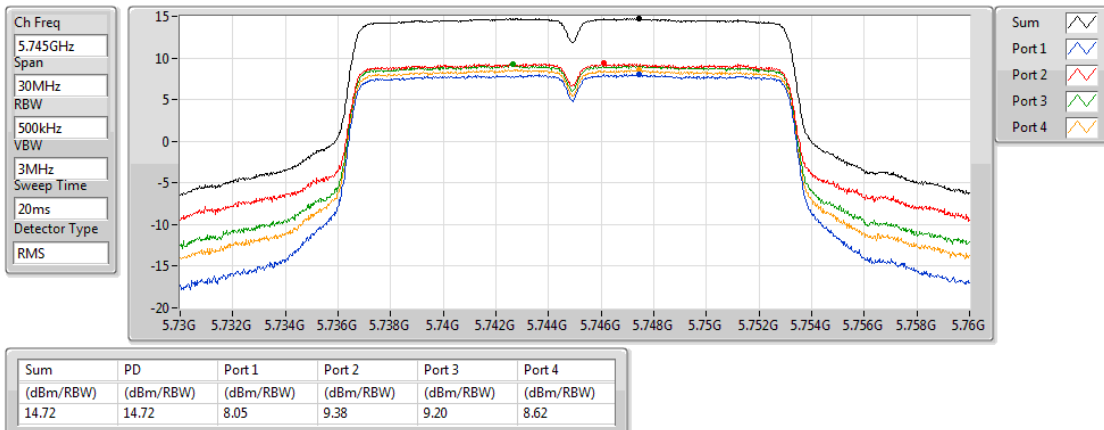
5720MHz Straddle 5.725-5.85GHz



802.11a_(6Mbps)_4TX

PSD

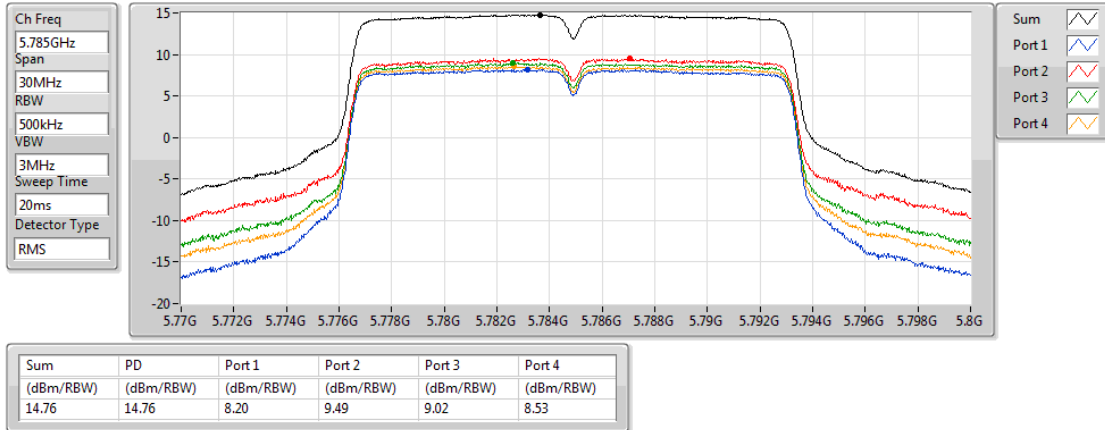
5745MHz



802.11a_(6Mbps)_4TX

PSD

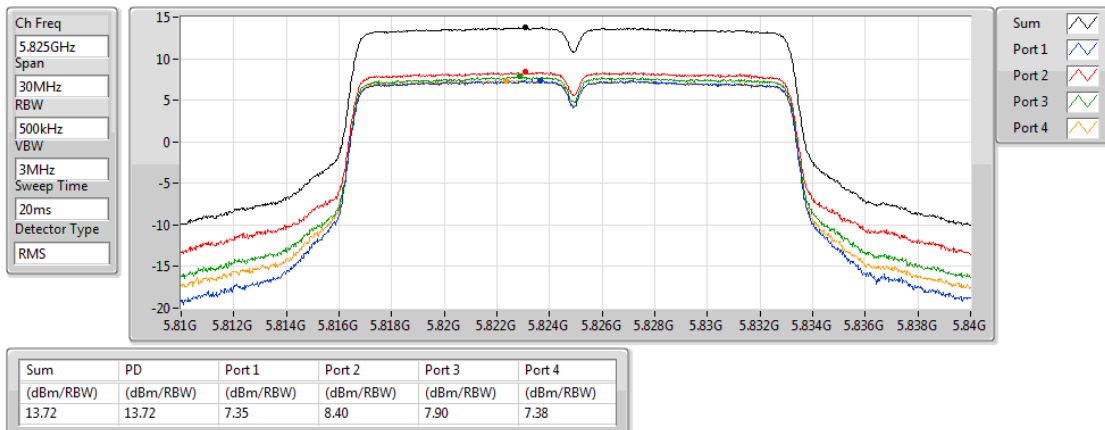
5785MHz



802.11a_(6Mbps)_4TX

PSD

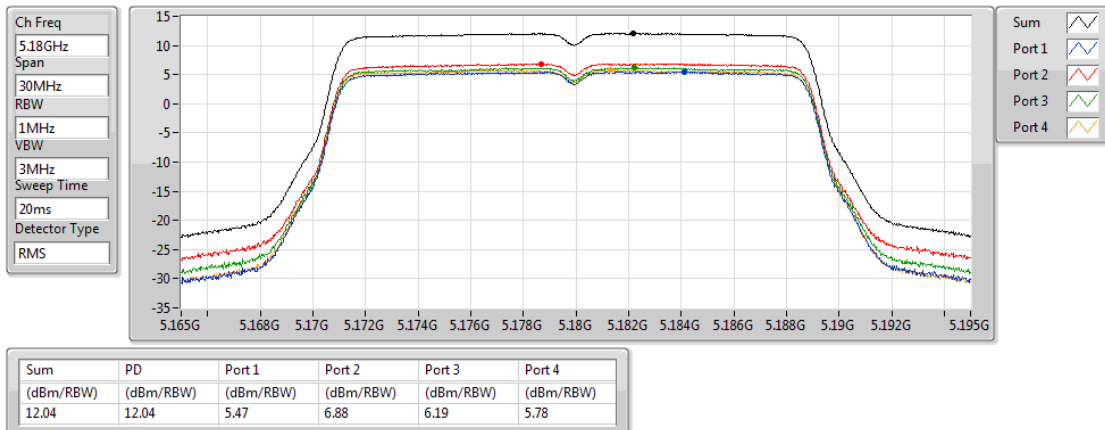
5825MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

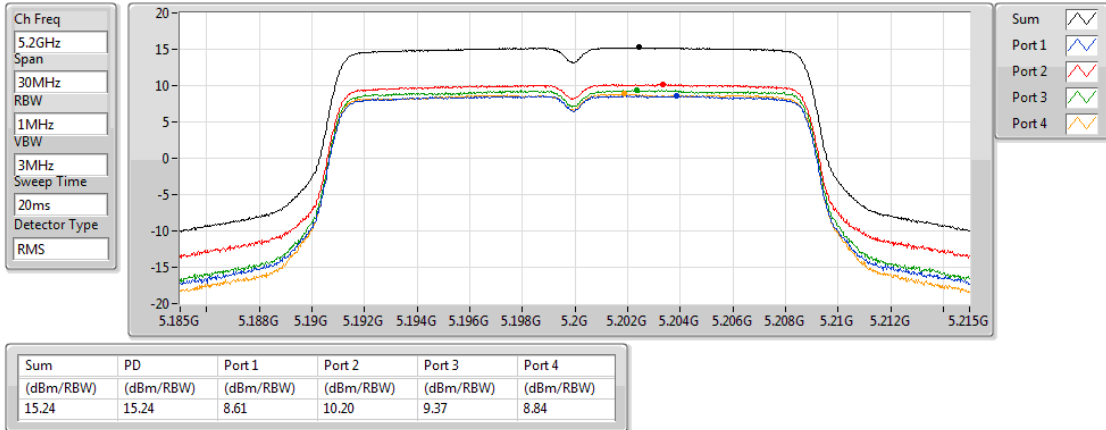
5180MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

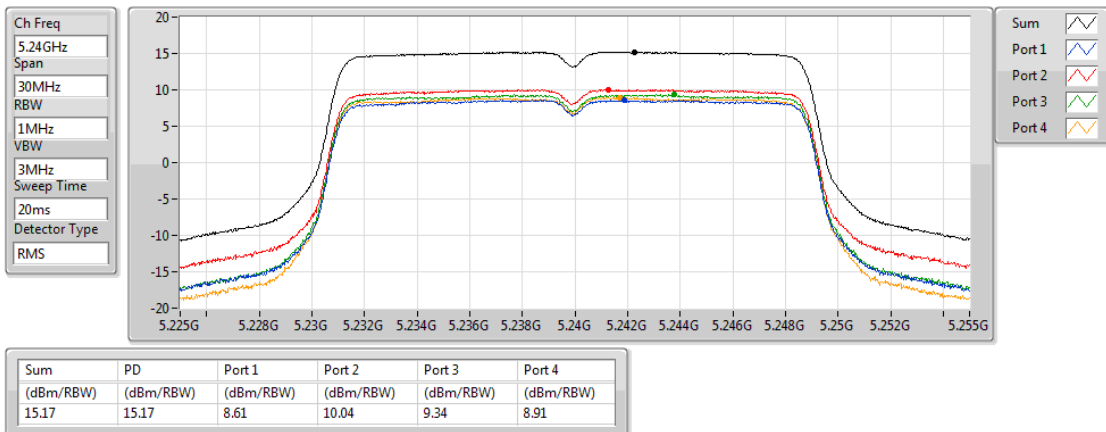
5200MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

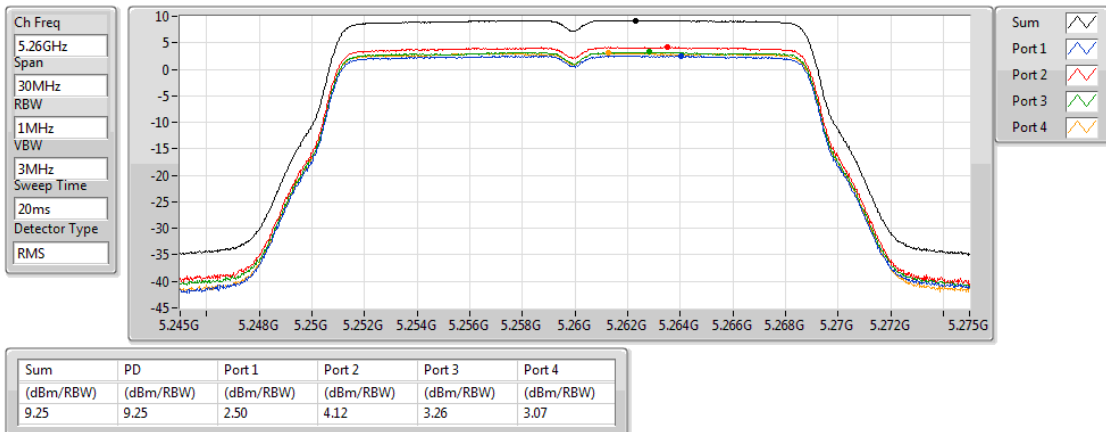
5240MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

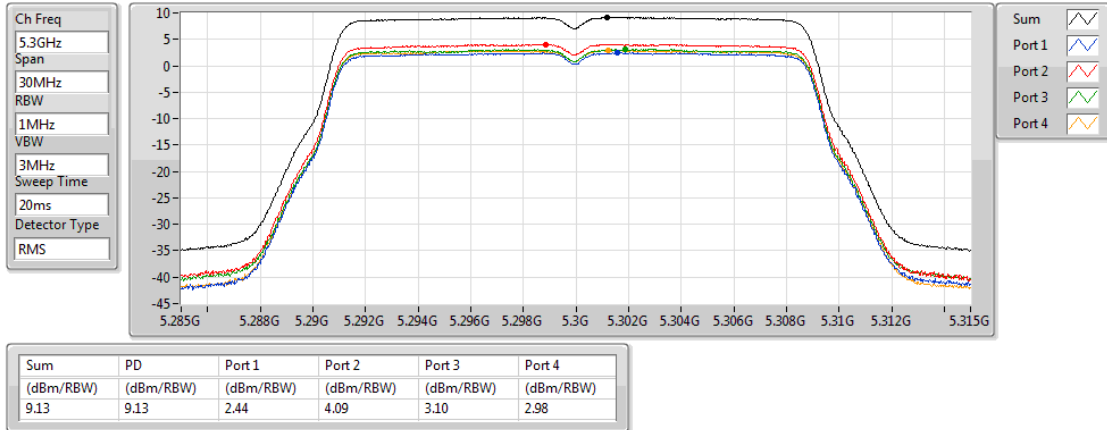
5260MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

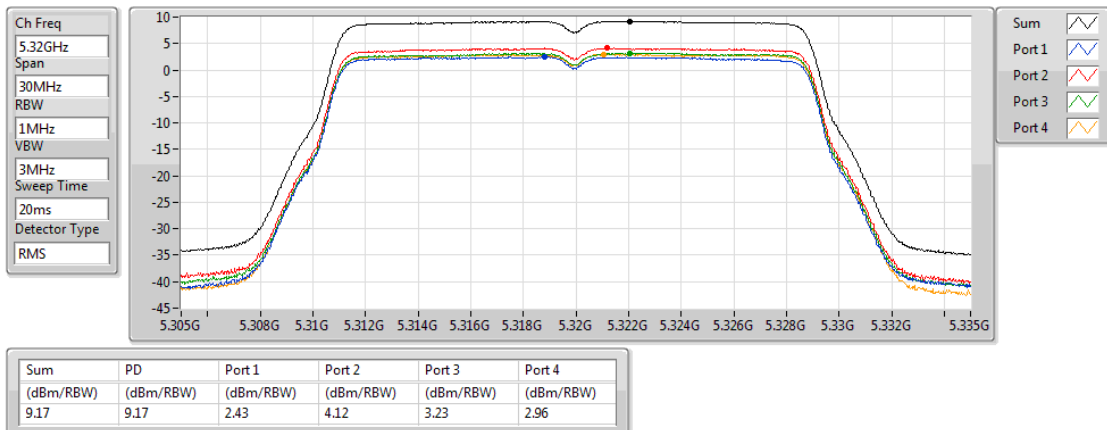
5300MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

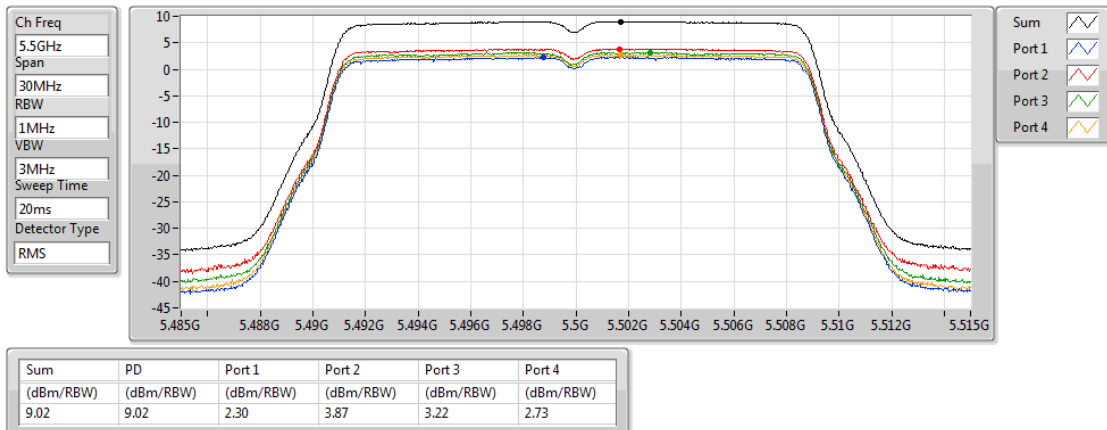
5320MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

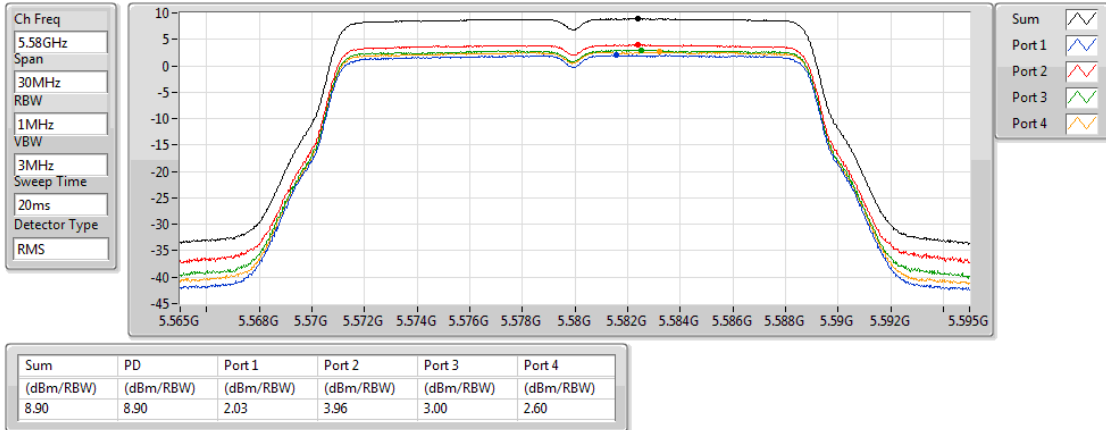
5500MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

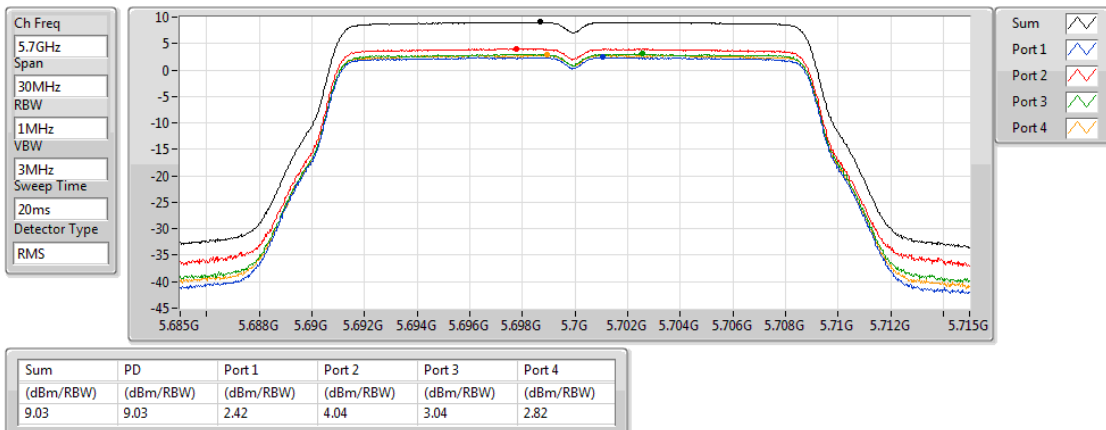
5580MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

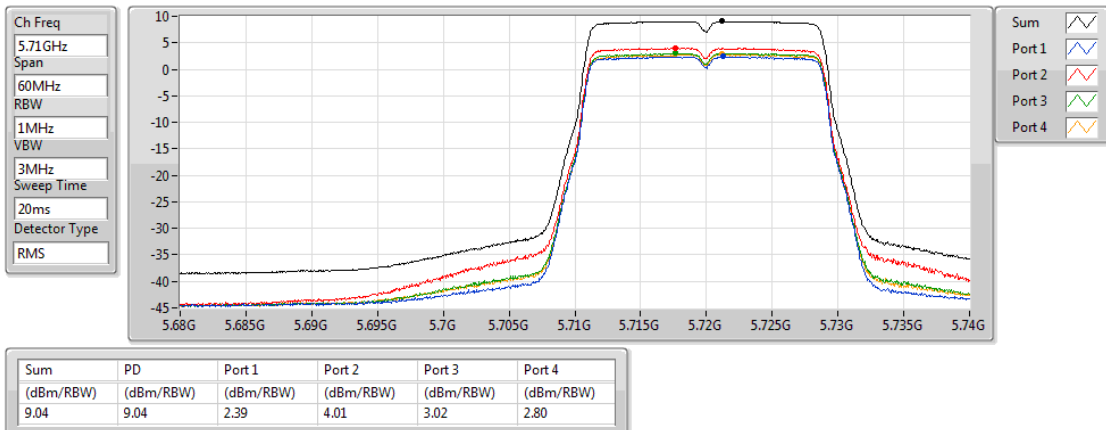
5700MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

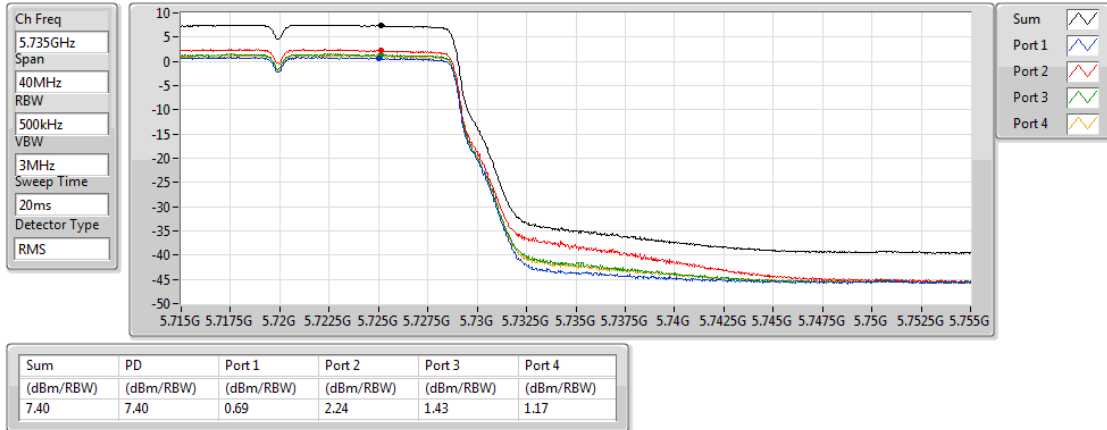
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

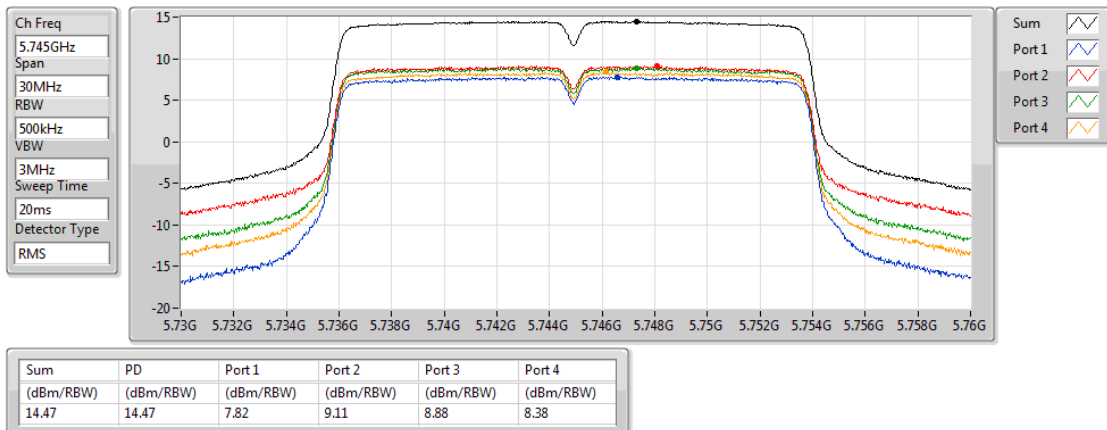
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

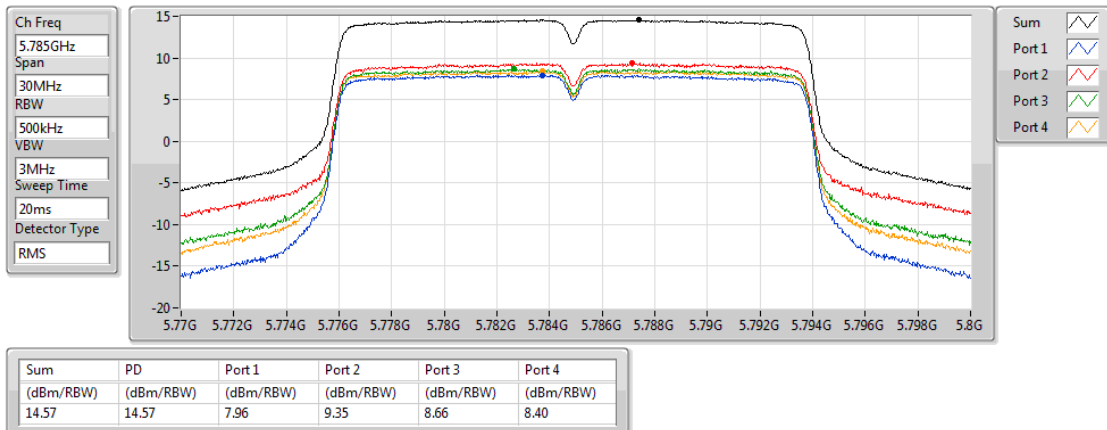
5745MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

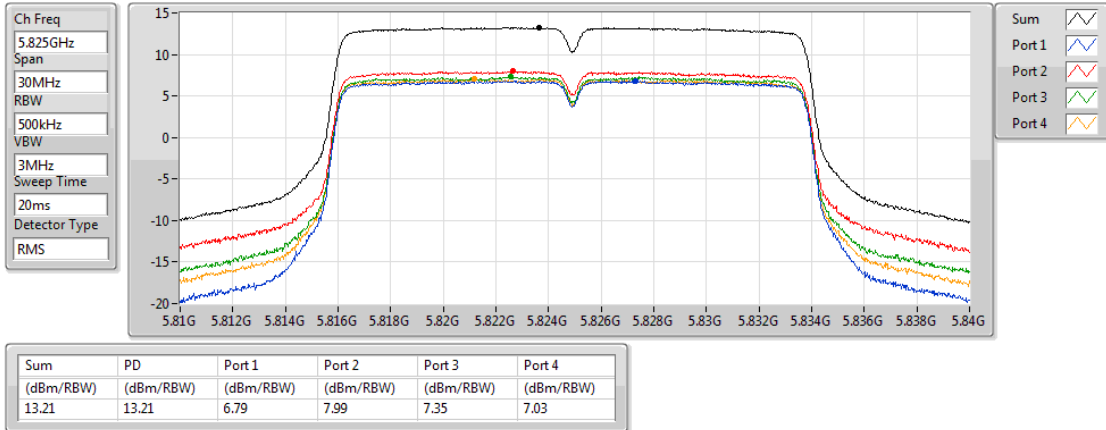
5785MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

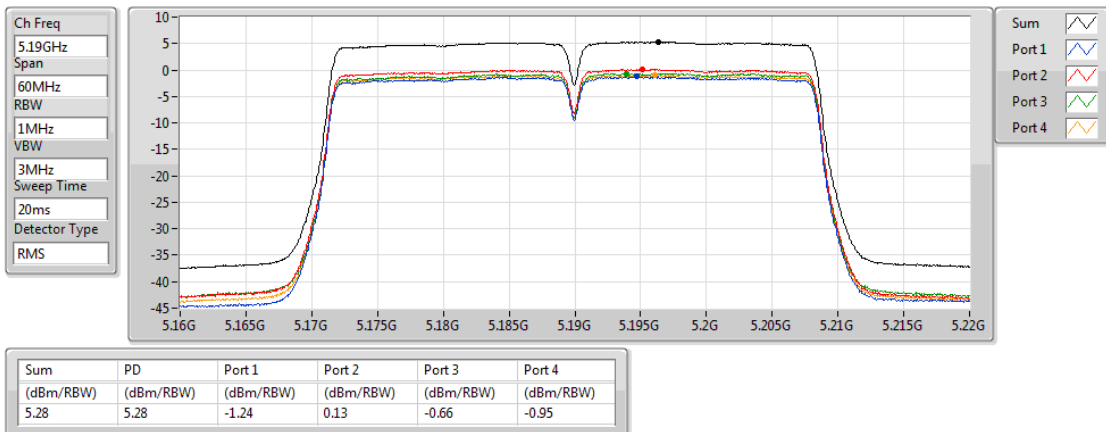
5825MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

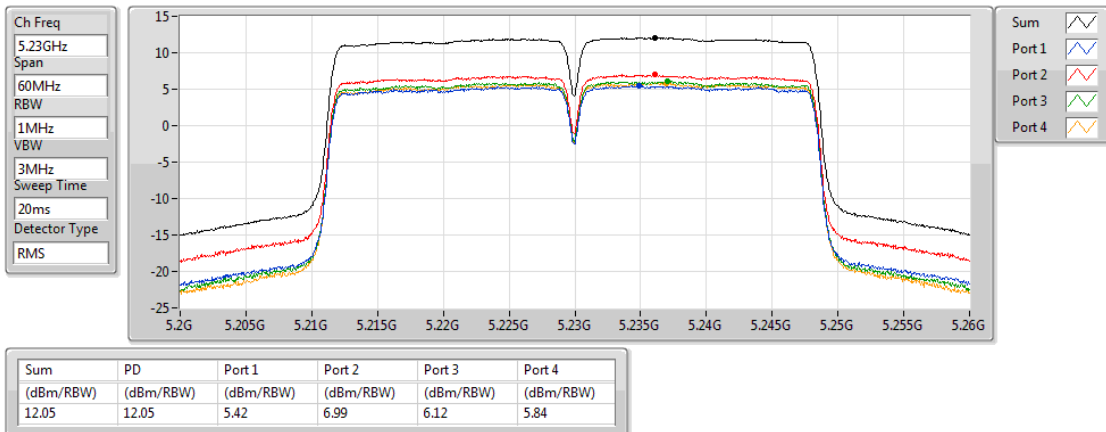
5190MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

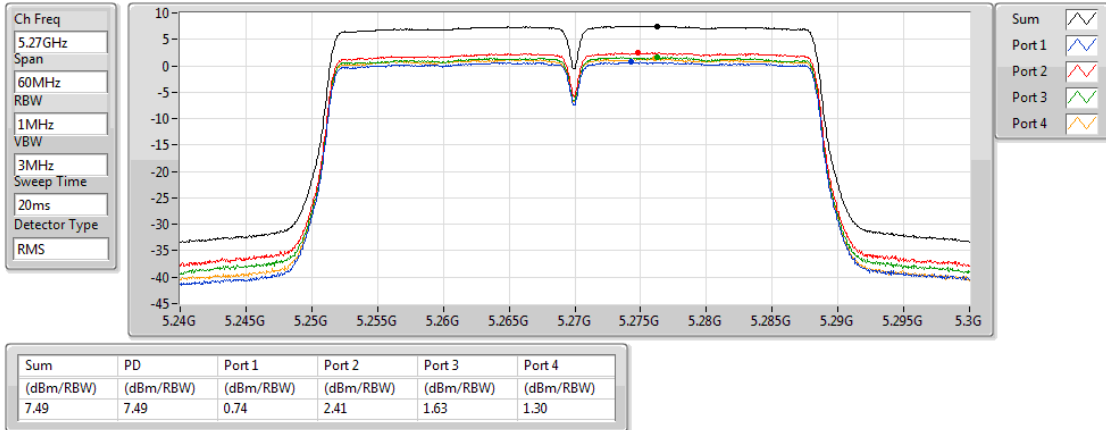
5230MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

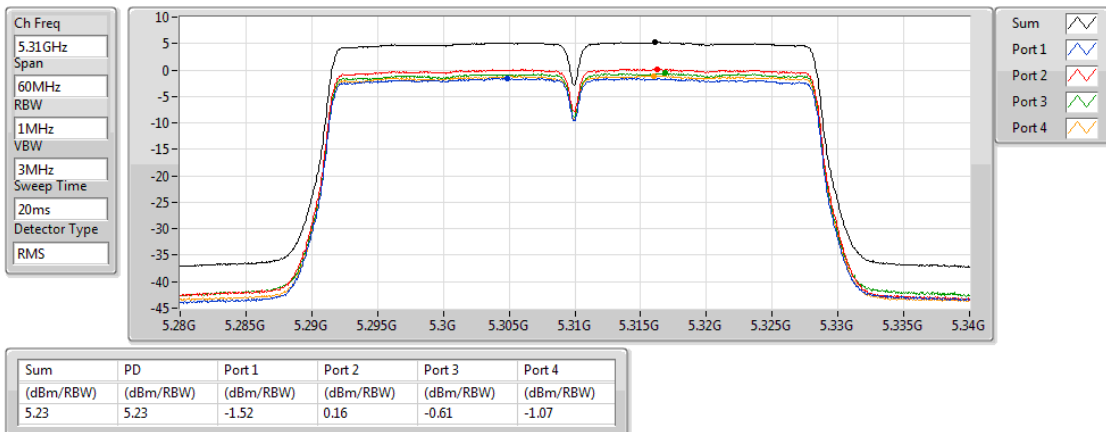
5270MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

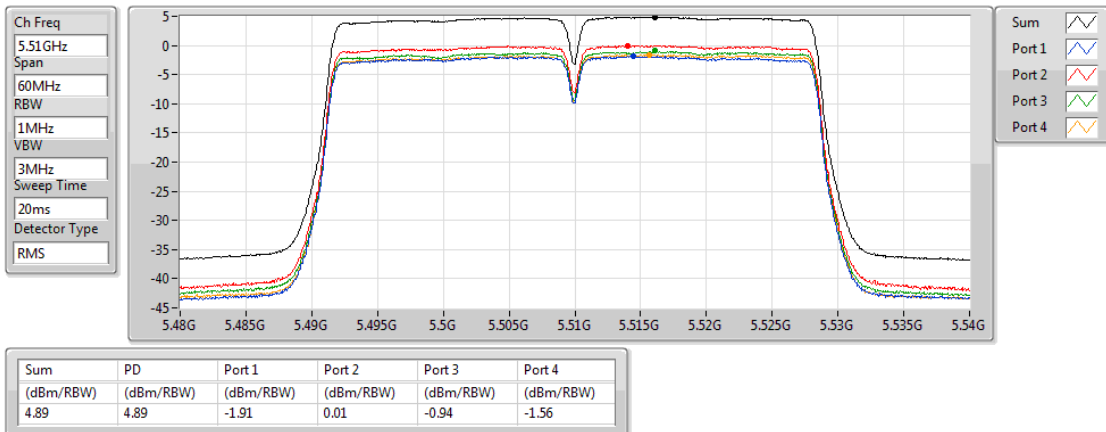
5310MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

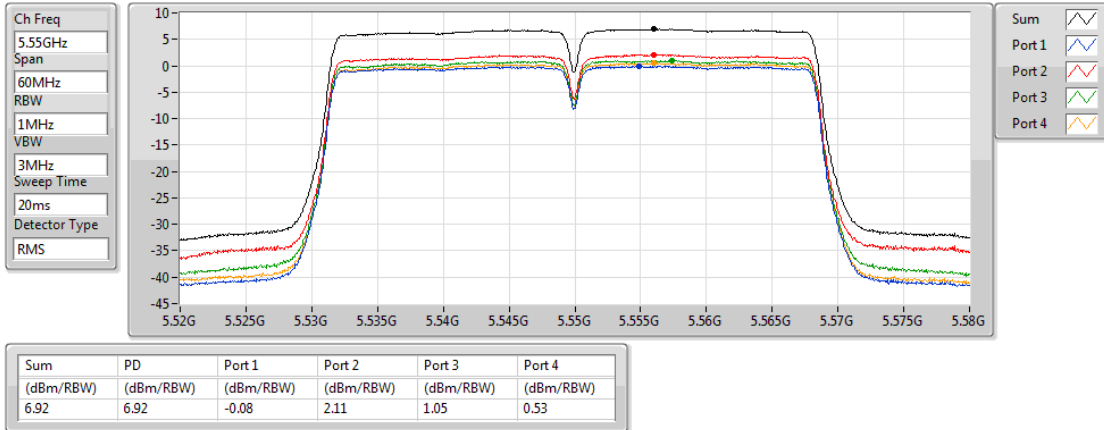
5510MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

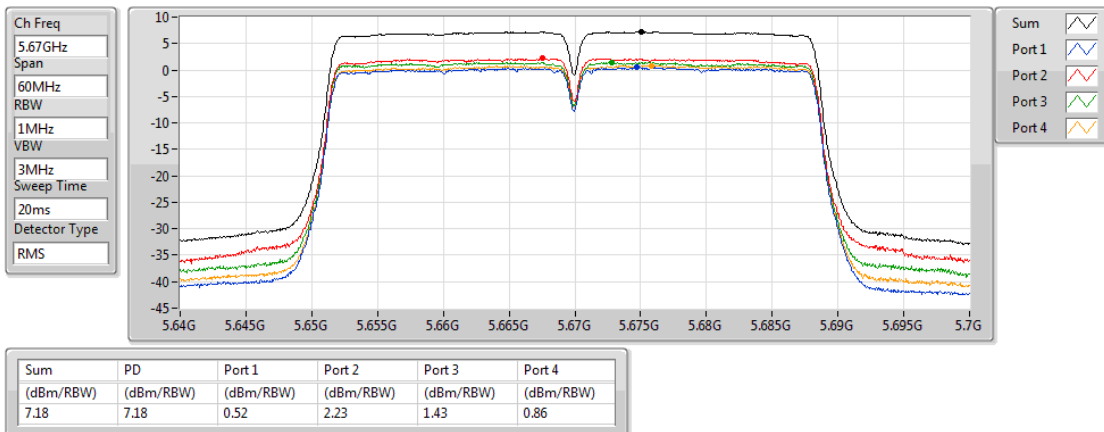
5550MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

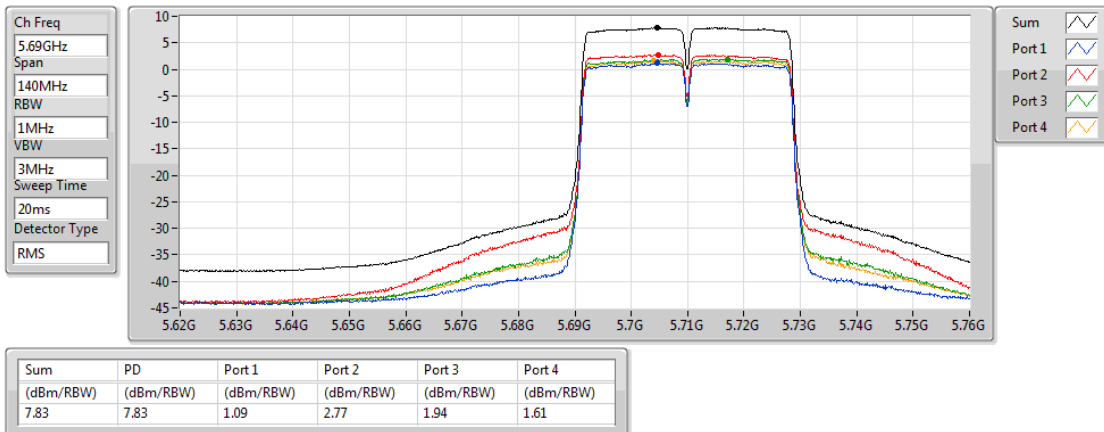
5670MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

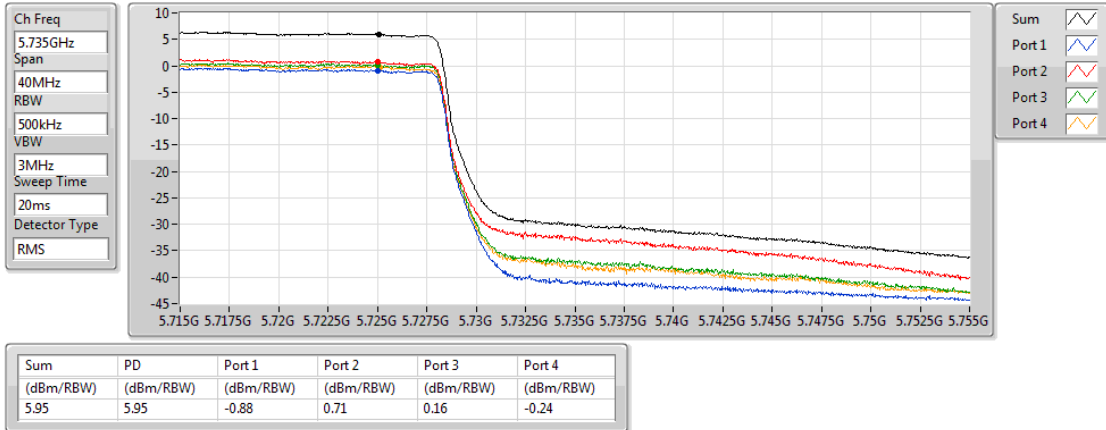
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

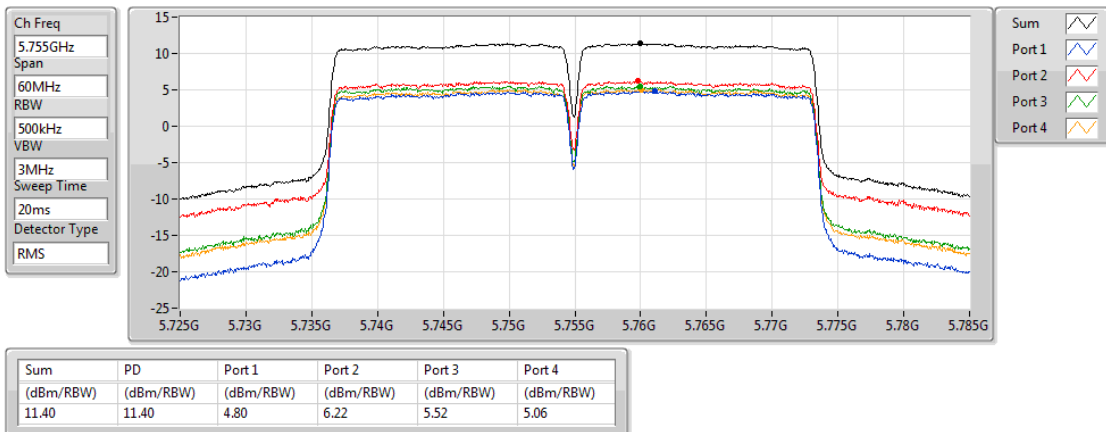
5710MHz Straddle 5.725-5.85GHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

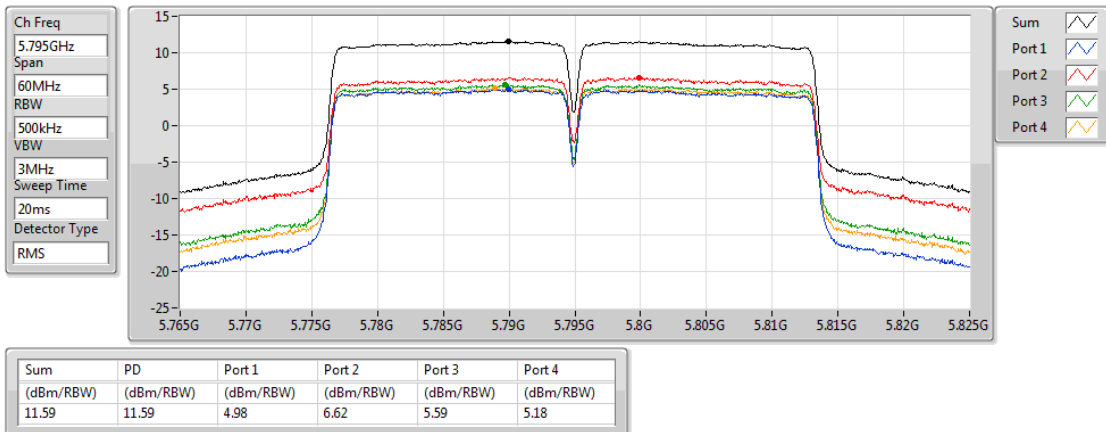
5755MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

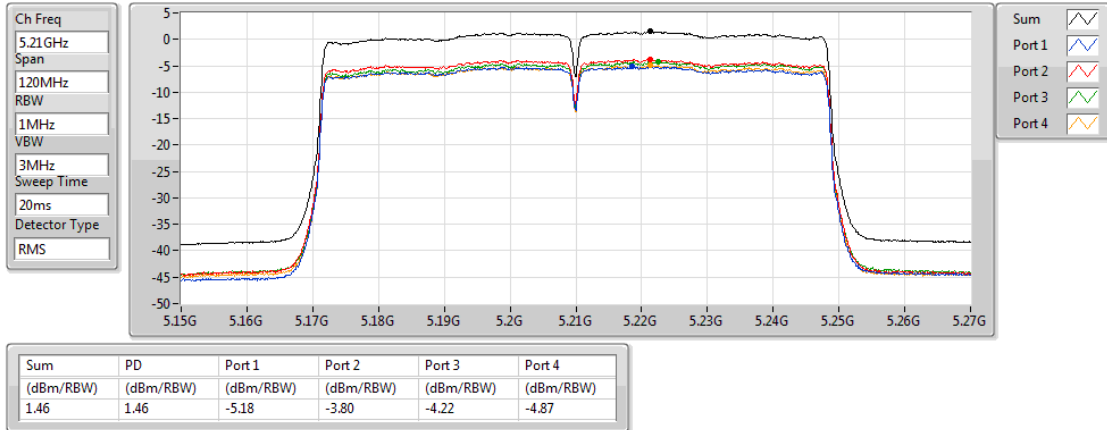
5795MHz



802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

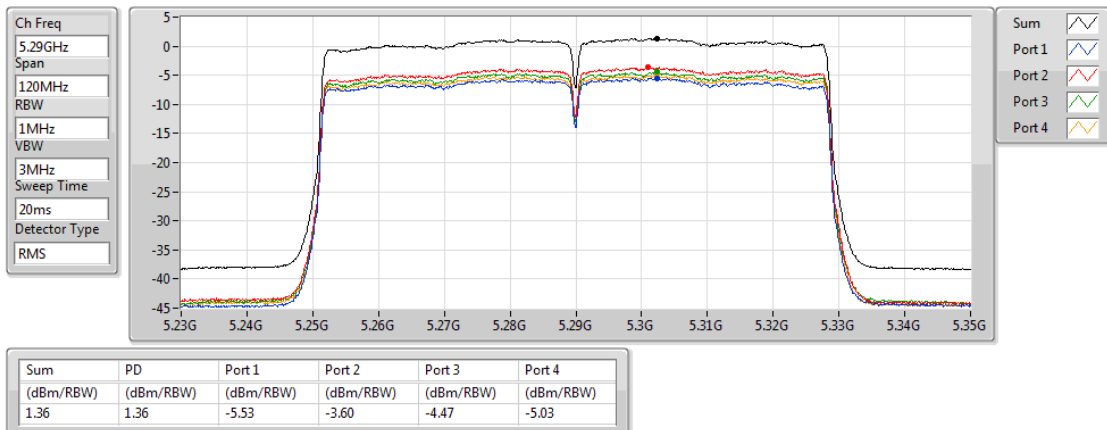
5210MHz



802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

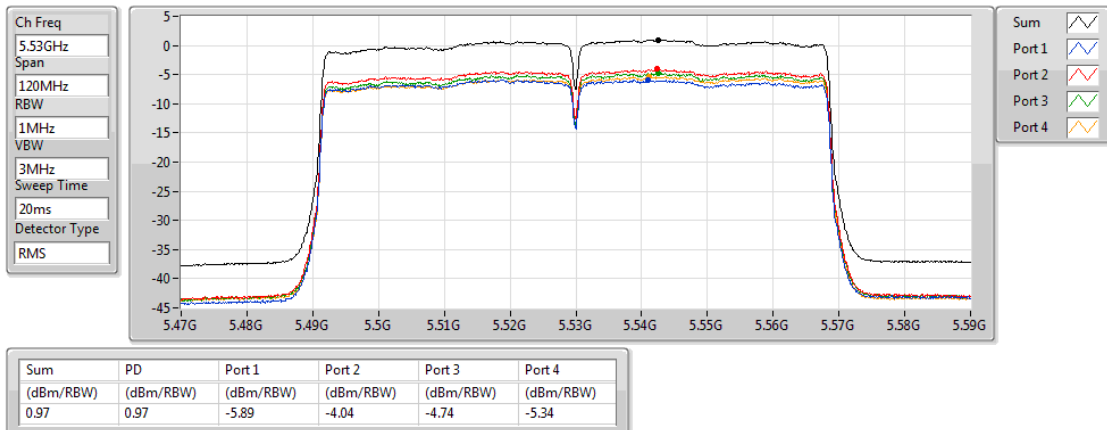
5290MHz



802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

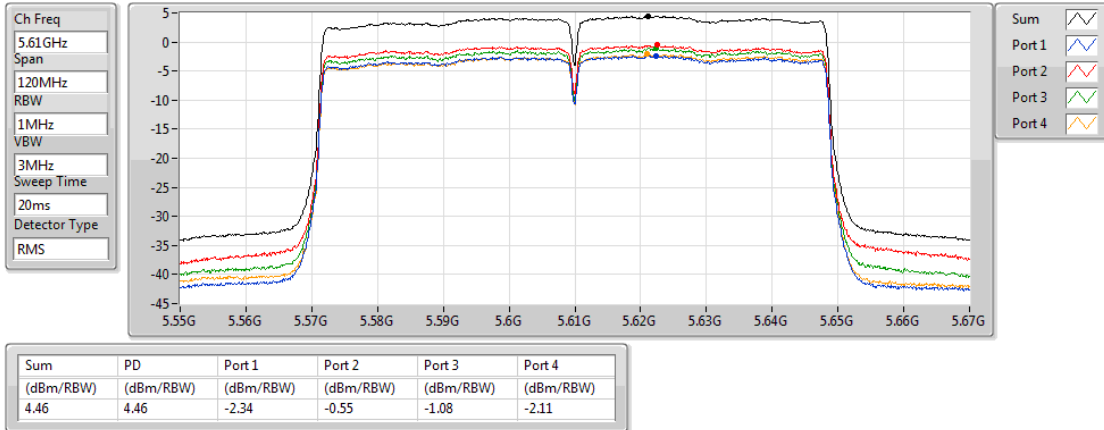
5530MHz



802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

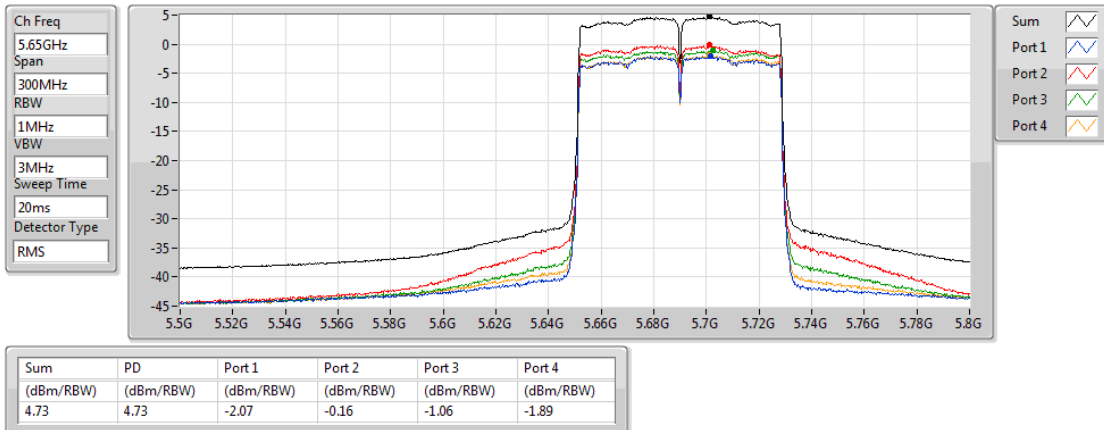
5610MHz



802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

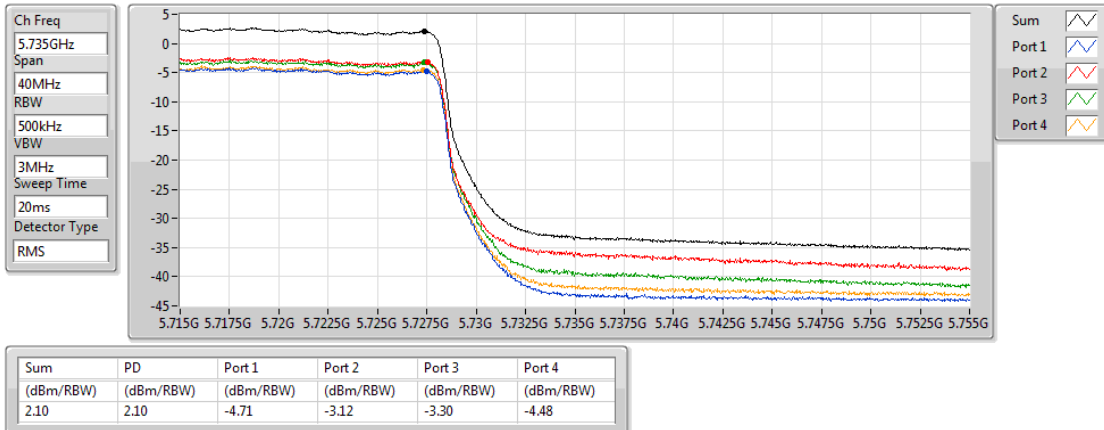
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

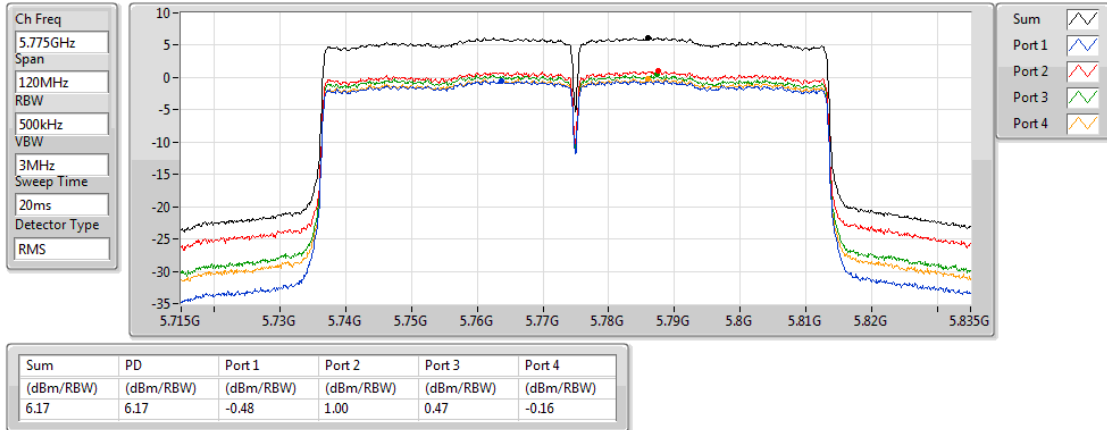
5690MHz Straddle 5.725-5.85GHz



802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

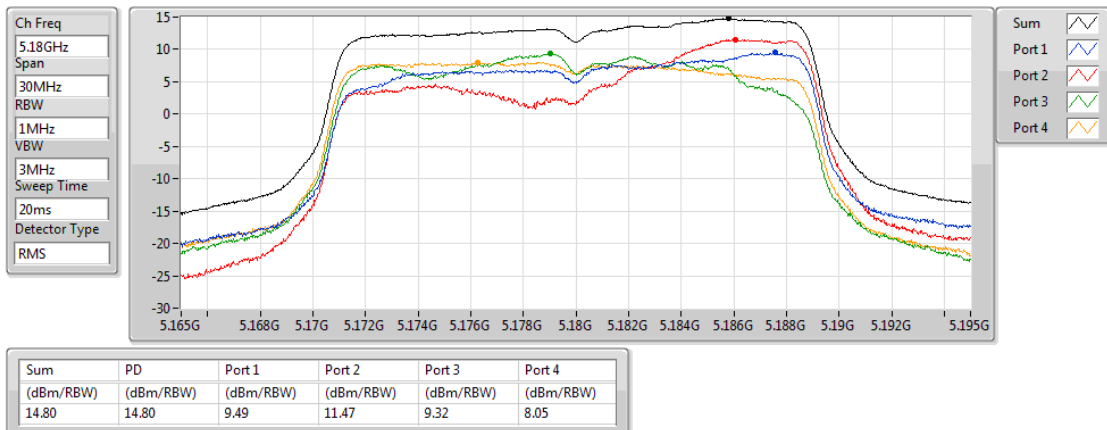
5775MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

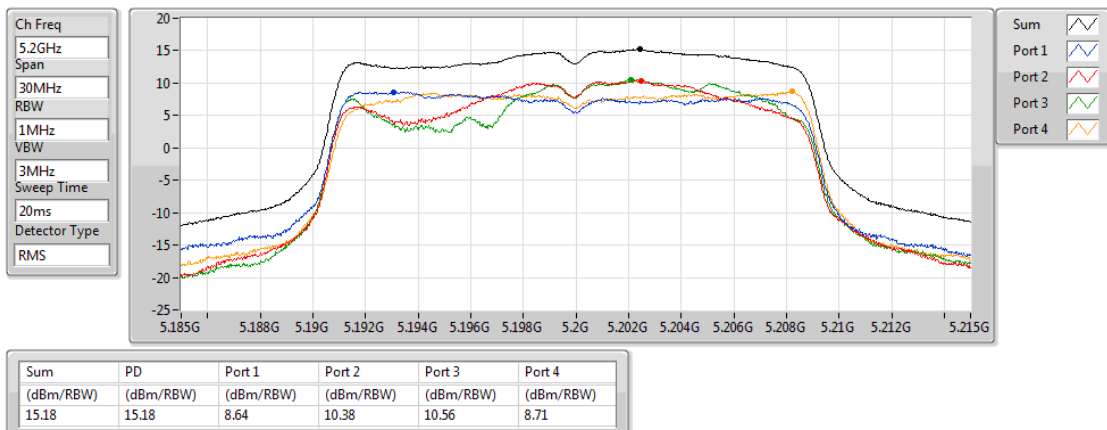
5180MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

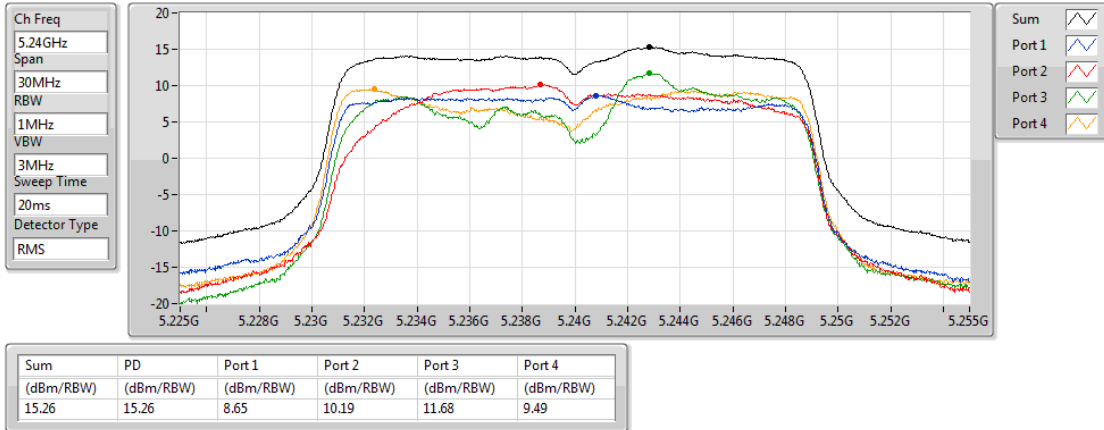
5200MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

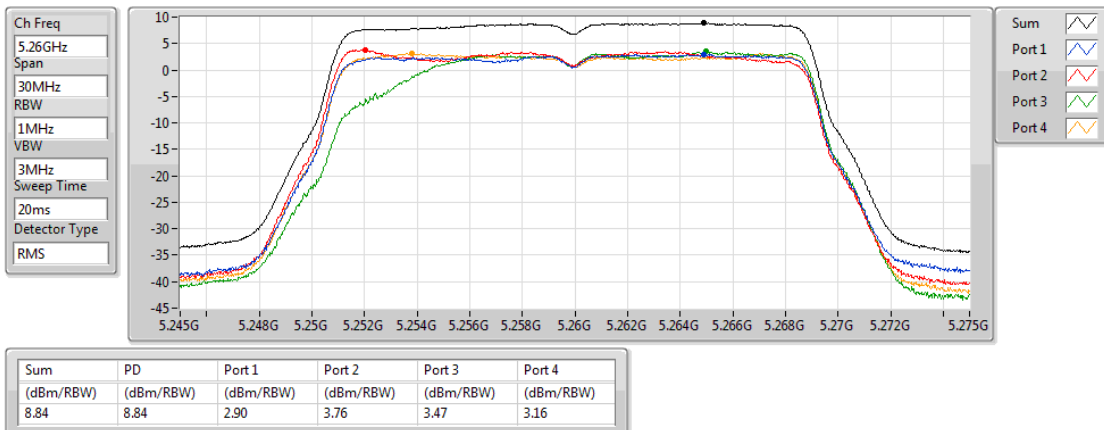
5240MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

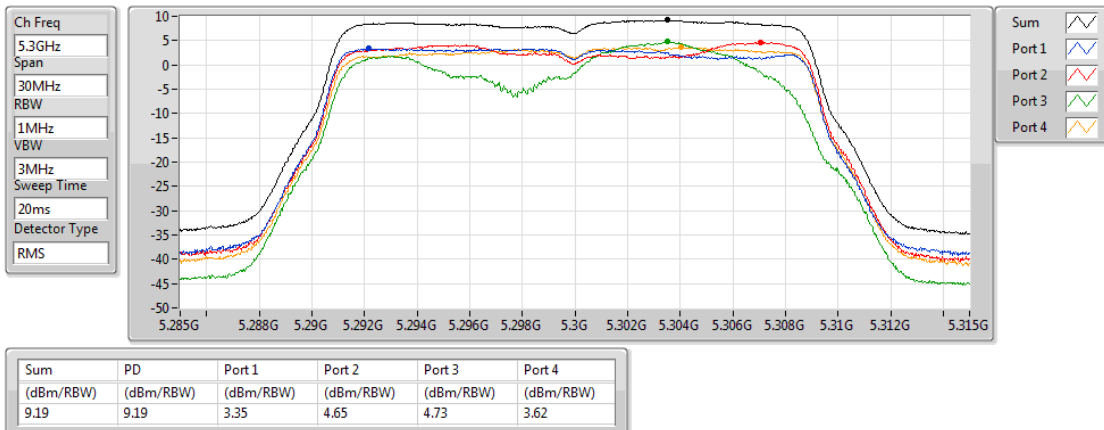
5260MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

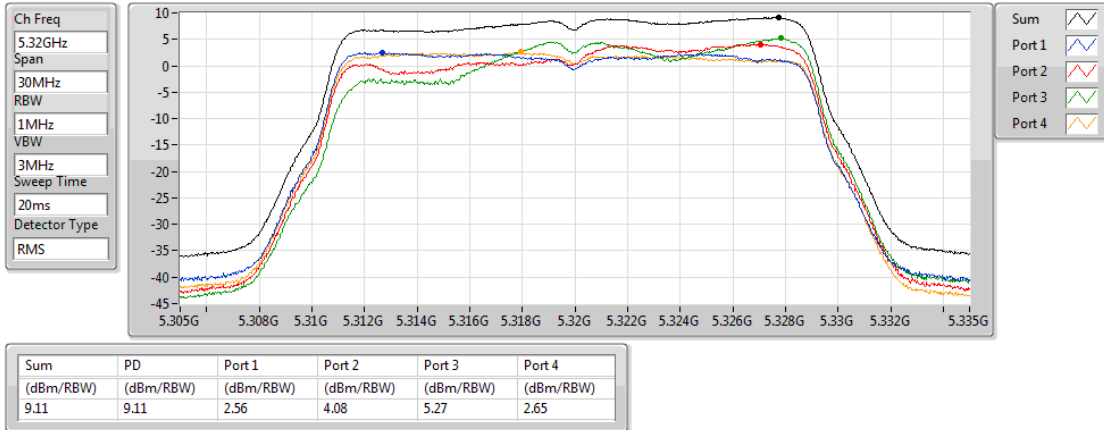
5300MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

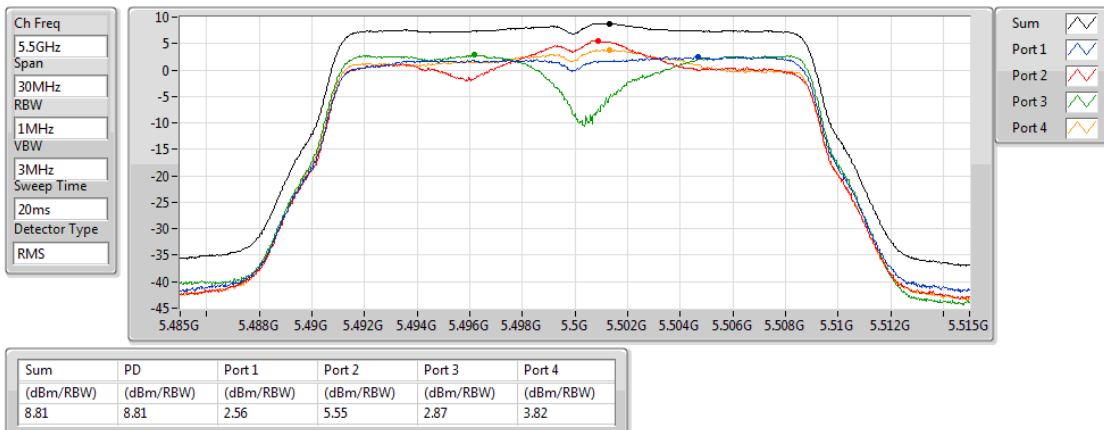
5320MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

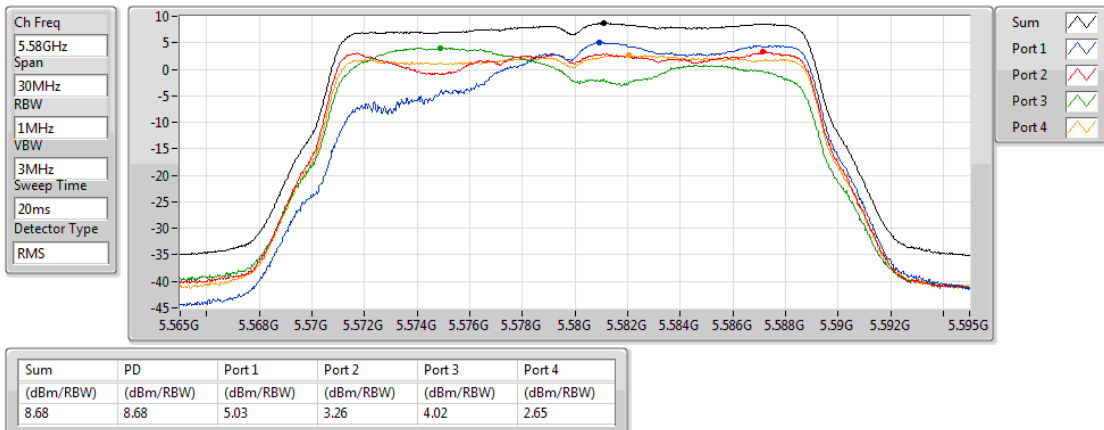
5500MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

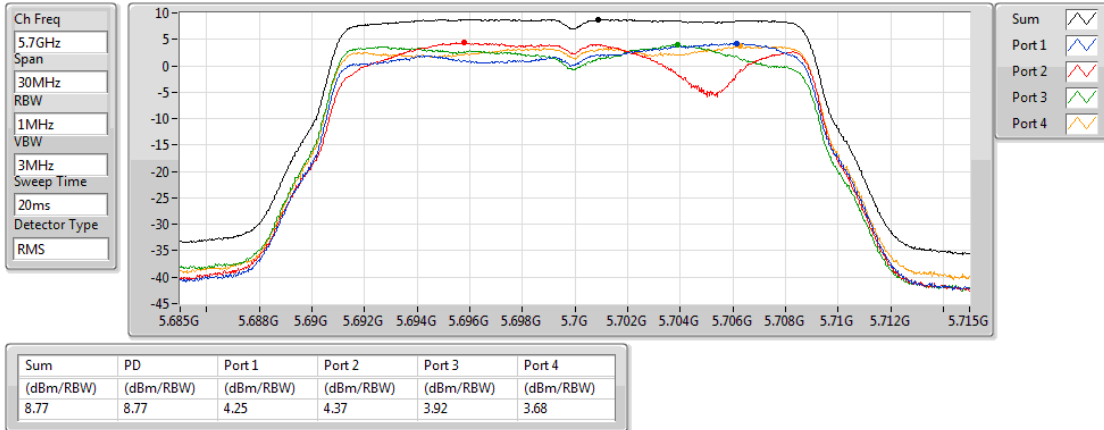
5580MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

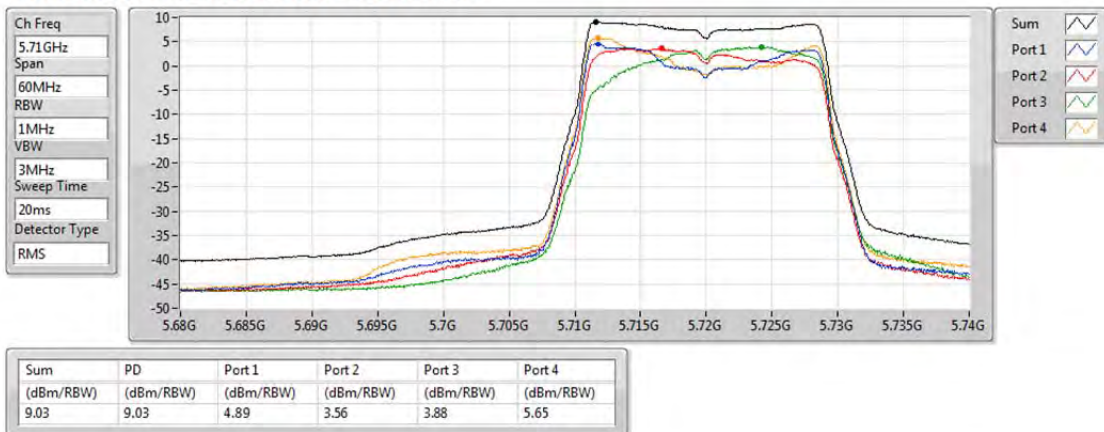
5700MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

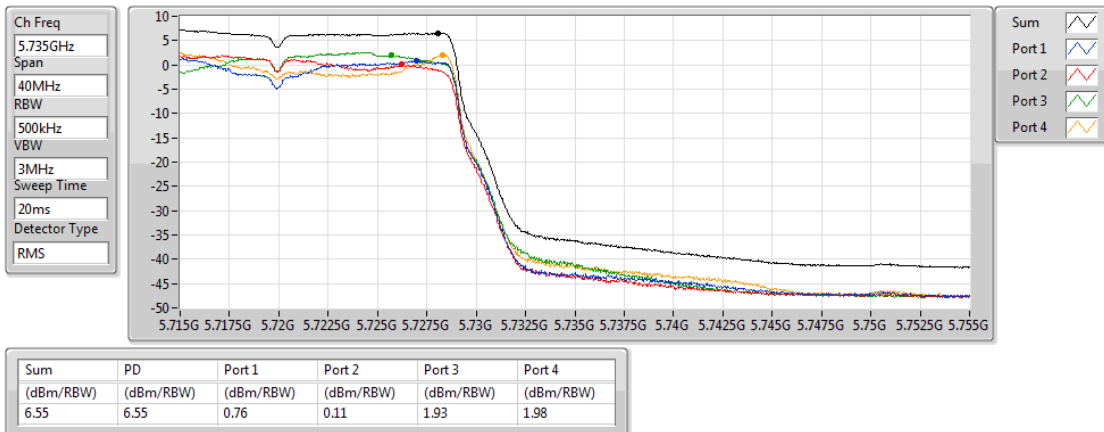
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

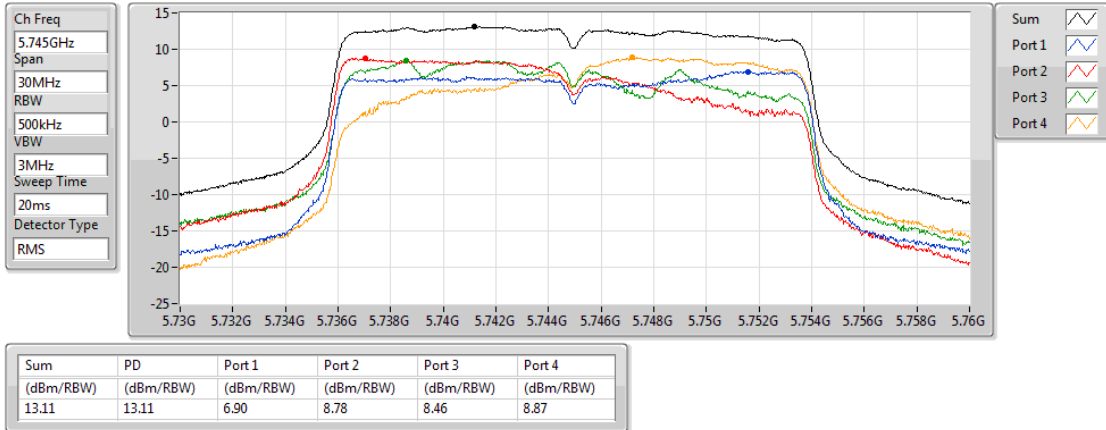
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

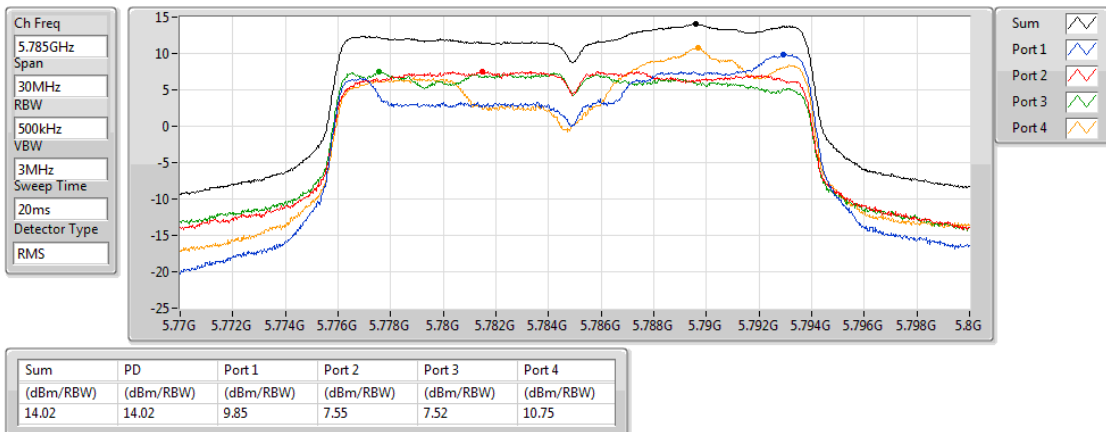
5745MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

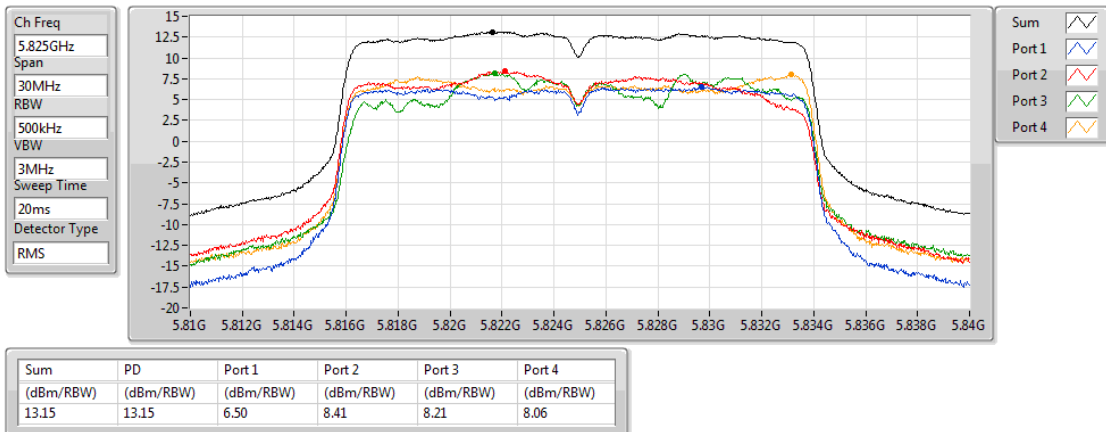
5785MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

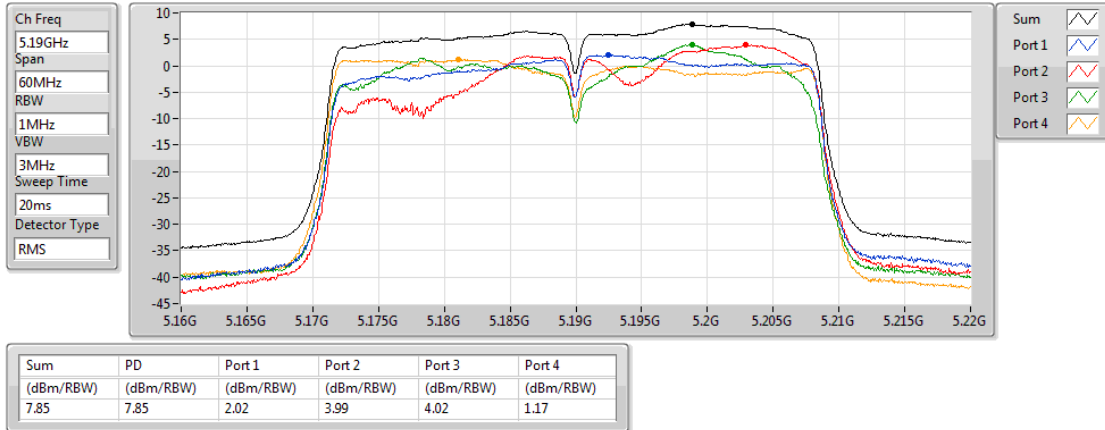
5825MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

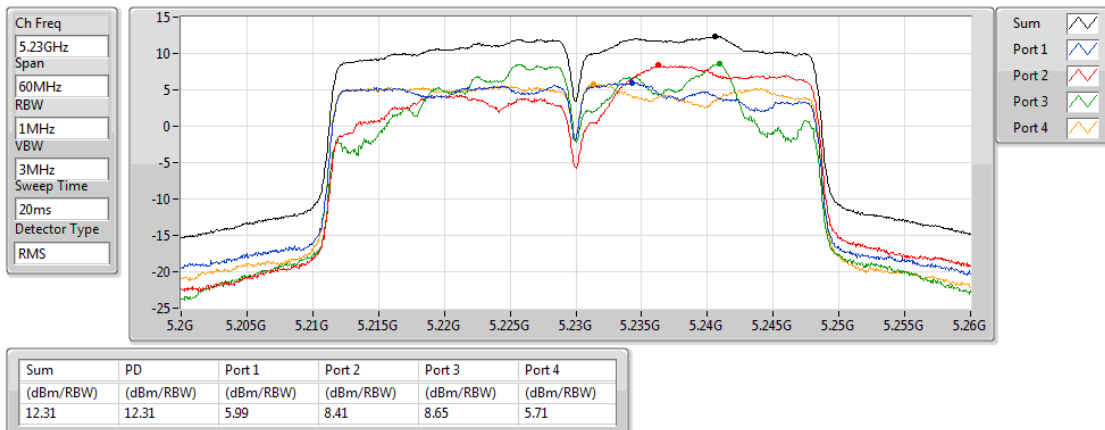
5190MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

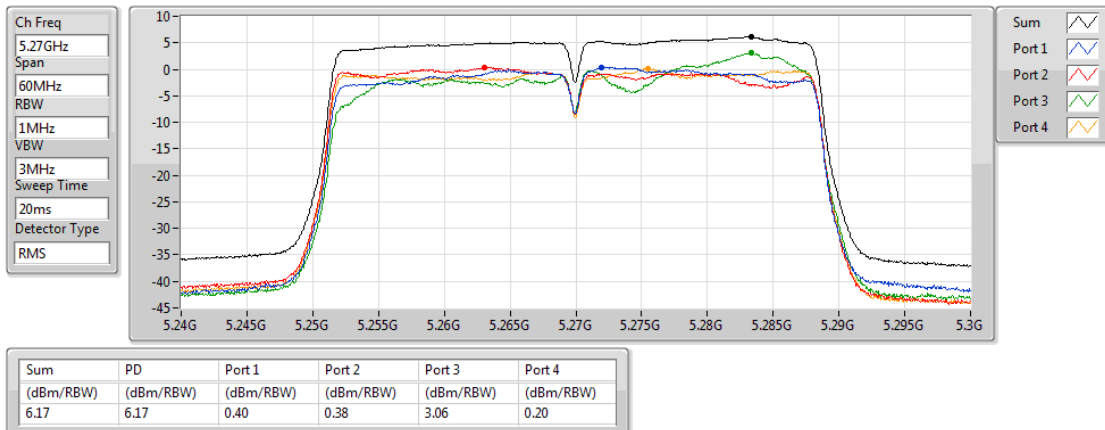
5230MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

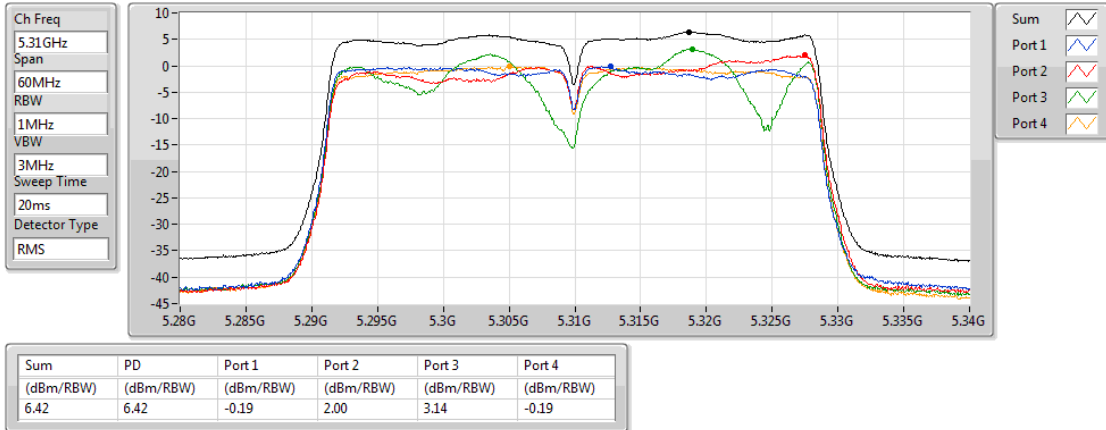
5270MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

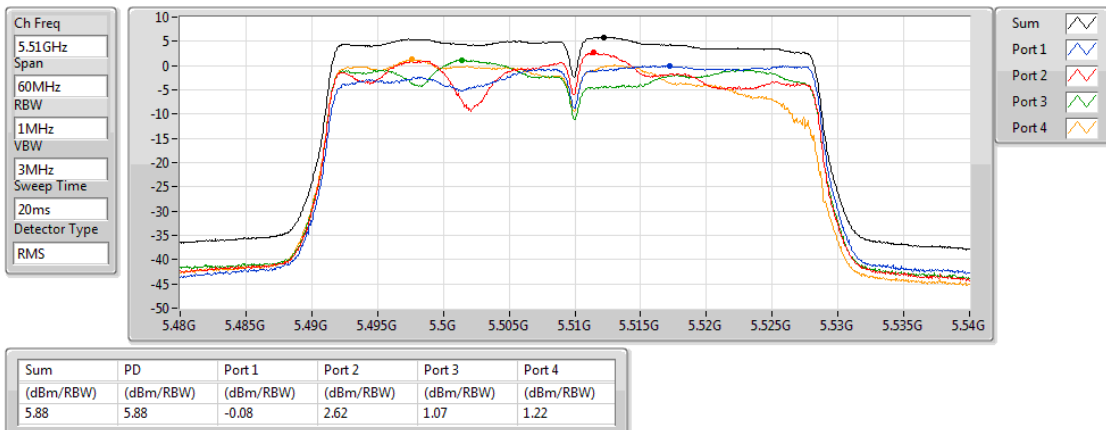
5310MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

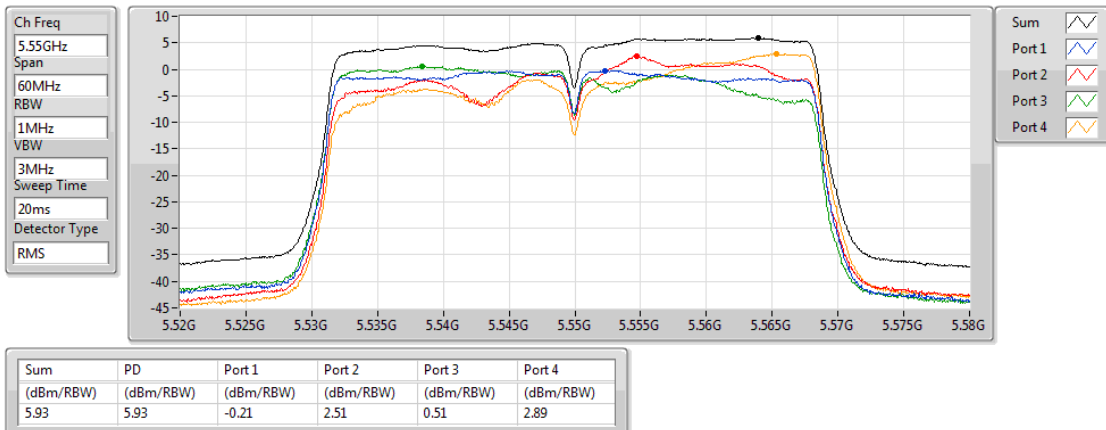
5510MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

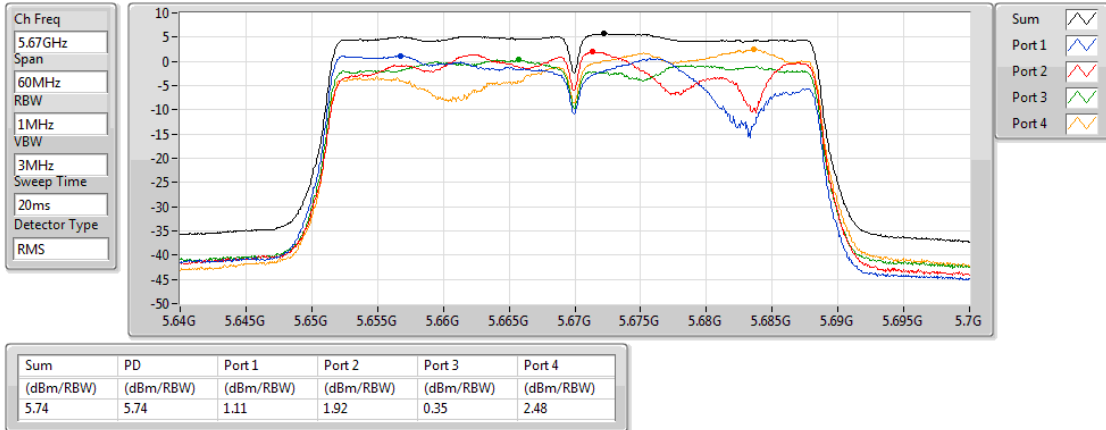
5550MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

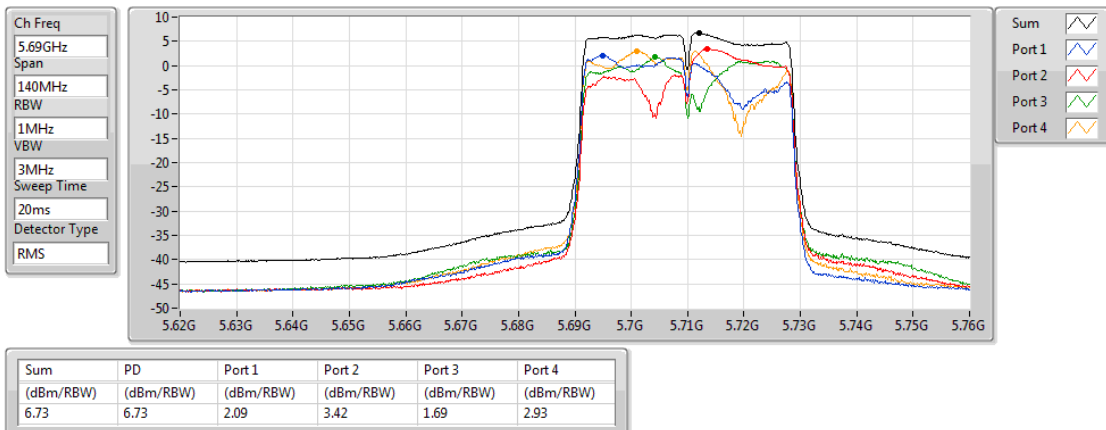
5670MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

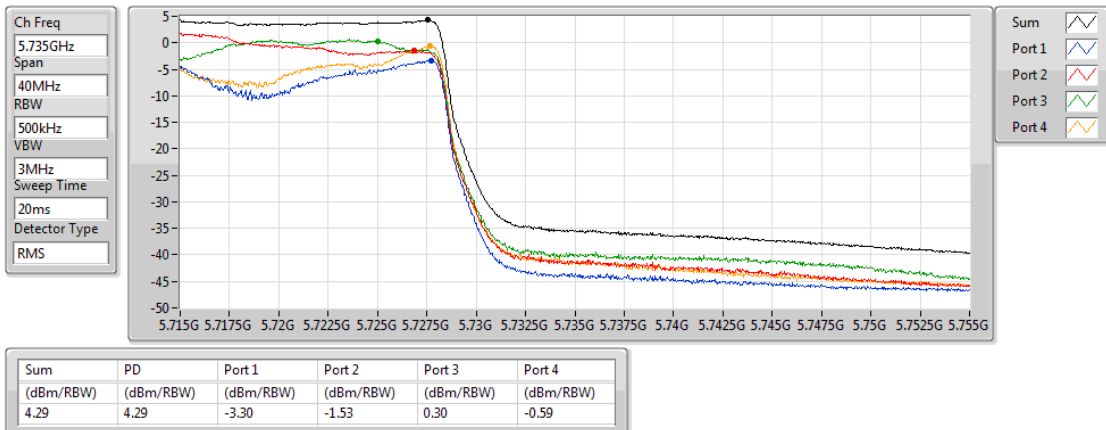
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

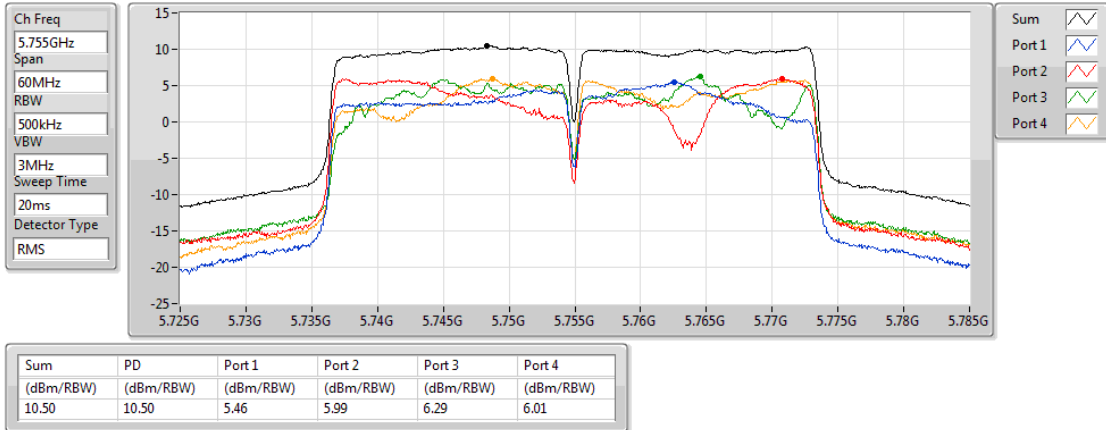
5710MHz Straddle 5.725-5.85GHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

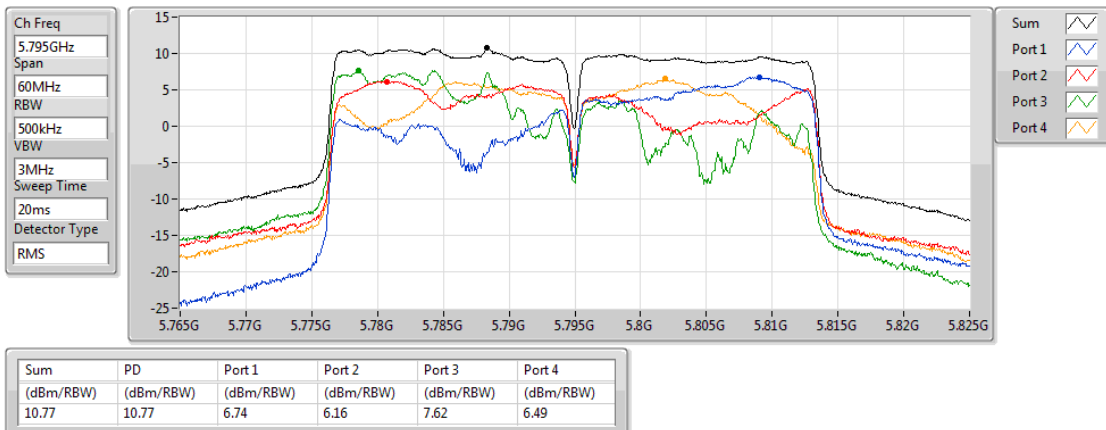
5755MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

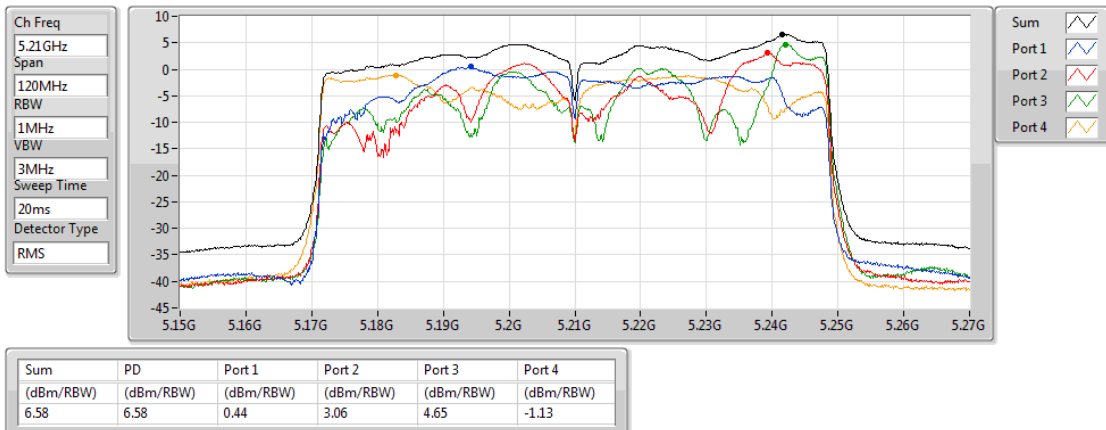
5795MHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

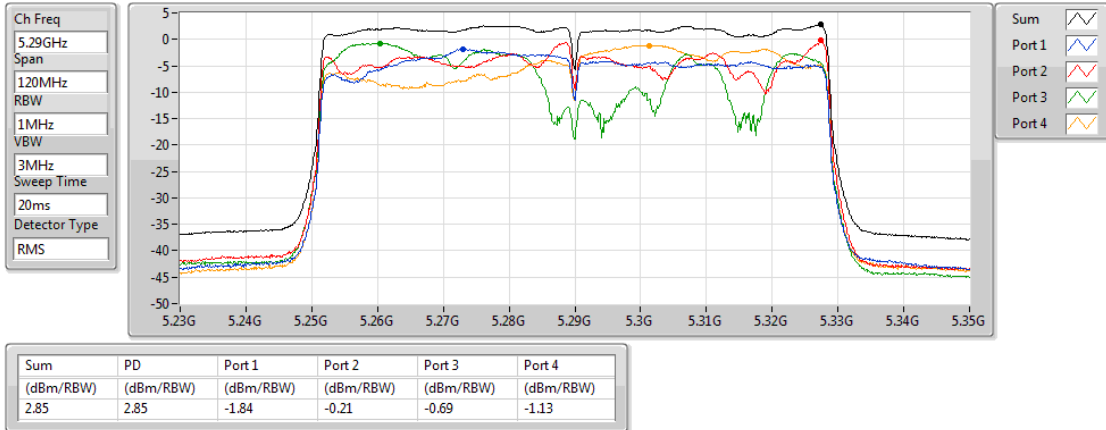
5210MHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

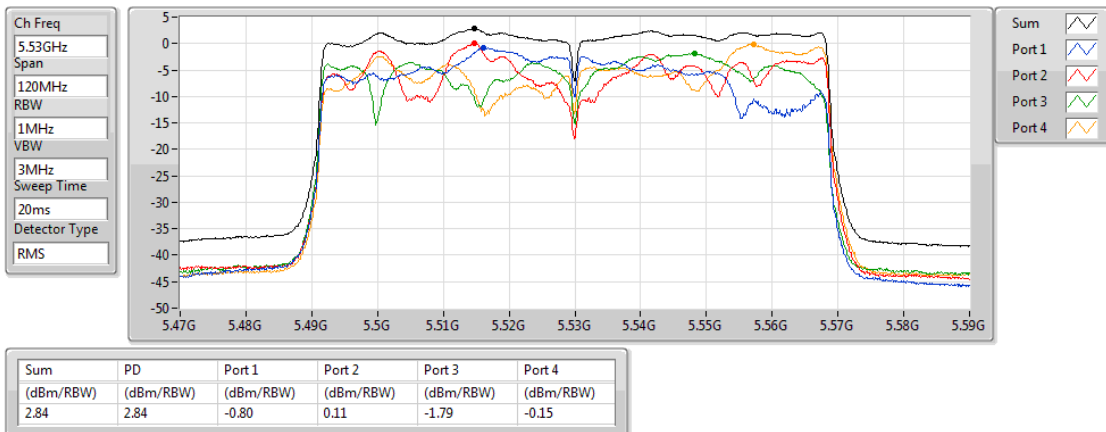
5290MHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

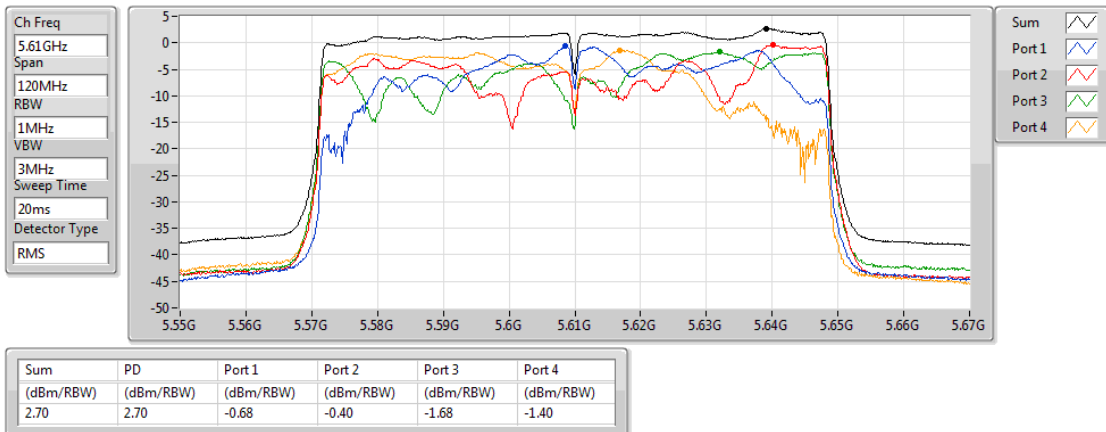
5530MHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

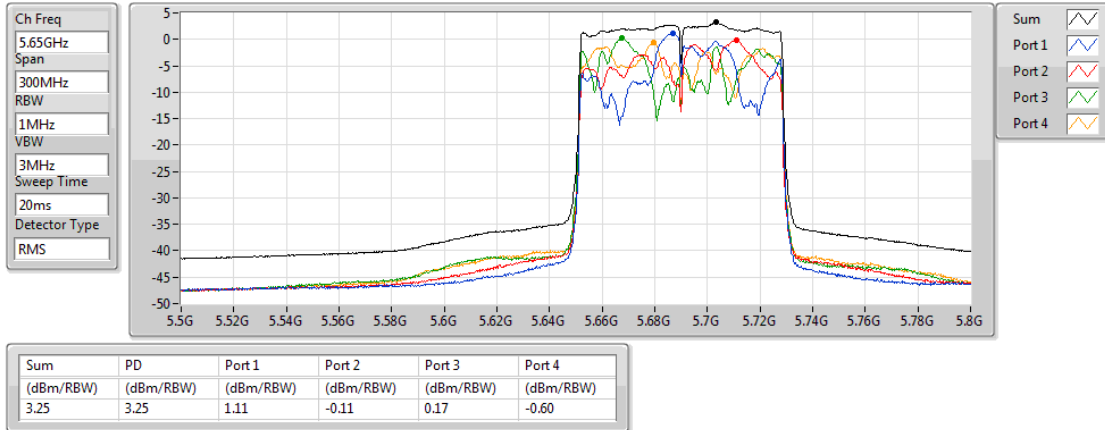
5610MHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

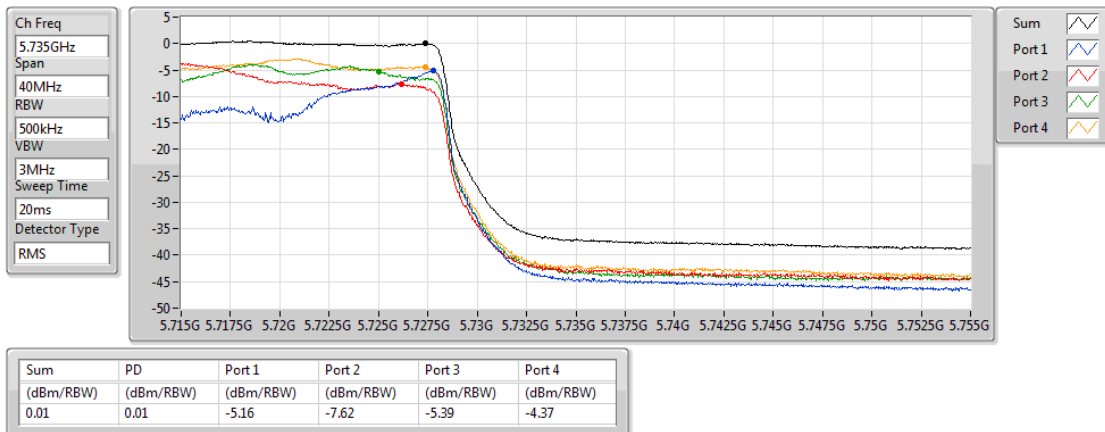
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

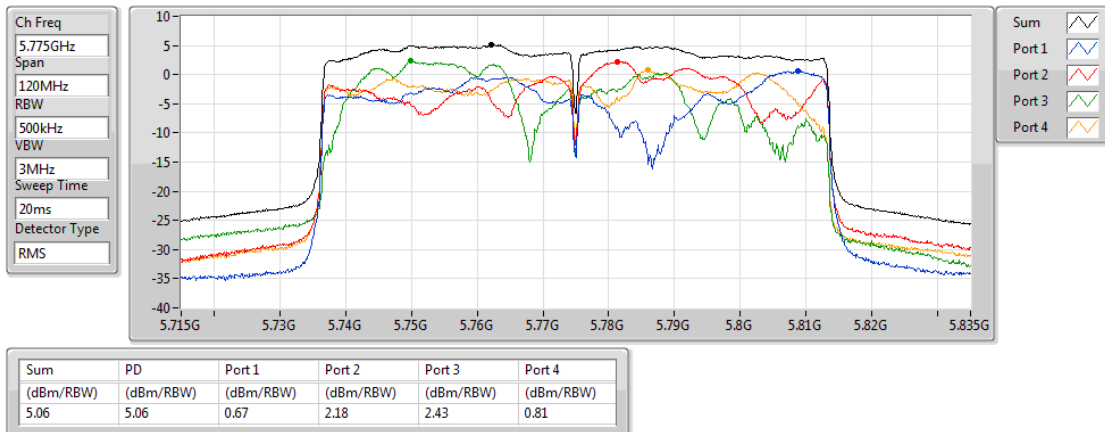
5690MHz Straddle 5.725-5.85GHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5775MHz



Summary

Mode	PD (dBm/RBW)
802.11a_(6Mbps)_4TX	-
5.15-5.25GHz	9.24
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5.15-5.25GHz	9.22
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5.15-5.25GHz	7.36
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5.15-5.25GHz	1.46
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
5.15-5.25GHz	9.24
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
5.15-5.25GHz	6.14
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-
5.15-5.25GHz	3.07

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)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.72	2.79	3.91	3.2	3.12	9.24	9.28
5200MHz	Pass	7.72	2.83	4.14	3.32	2.66	9.23	9.28
5240MHz	Pass	7.72	2.65	3.93	3.19	2.49	9.05	9.28
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.72	2.6	4.08	3.36	2.49	9.11	9.28
5200MHz	Pass	7.72	2.65	4.2	3.4	2.6	9.22	9.28
5240MHz	Pass	7.72	2.6	4.09	3.39	2.71	9.16	9.28
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.72	-1.24	0.13	-0.66	-0.95	5.28	9.28
5230MHz	Pass	7.72	0.71	2.15	1.63	0.91	7.36	9.28
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.72	-5.18	-3.8	-4.22	-4.87	1.46	9.28
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.72	5.27	5.55	4.9	1.99	9.02	9.28
5200MHz	Pass	7.72	3.69	4.93	4.4	3.04	9.24	9.28
5240MHz	Pass	7.72	5.88	3.03	5.03	1.79	9.21	9.28
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.72	1.55	2.3	2.1	-0.37	6.14	9.28
5230MHz	Pass	7.72	0.76	1.22	2.46	-0.75	5.92	9.28
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.72	-1.32	-1.19	-0.19	-4.43	3.07	9.28

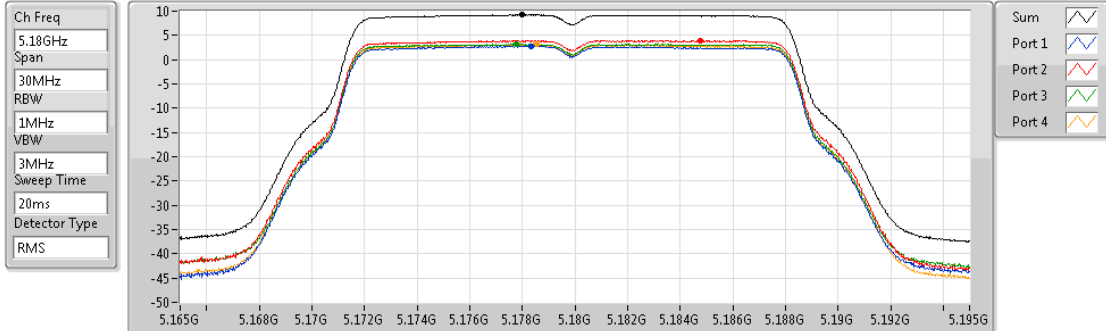
DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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

802.11a_(6Mbps)_4TX

PSD

5180MHz

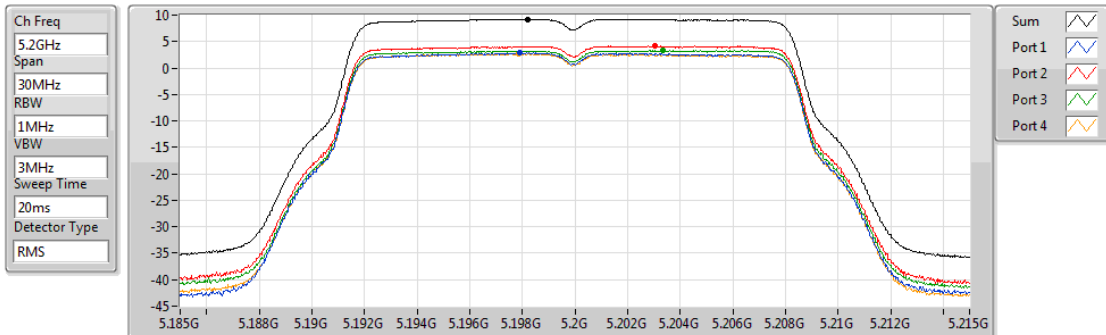


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.24	9.24	2.79	3.91	3.20	3.12

802.11a_(6Mbps)_4TX

PSD

5200MHz

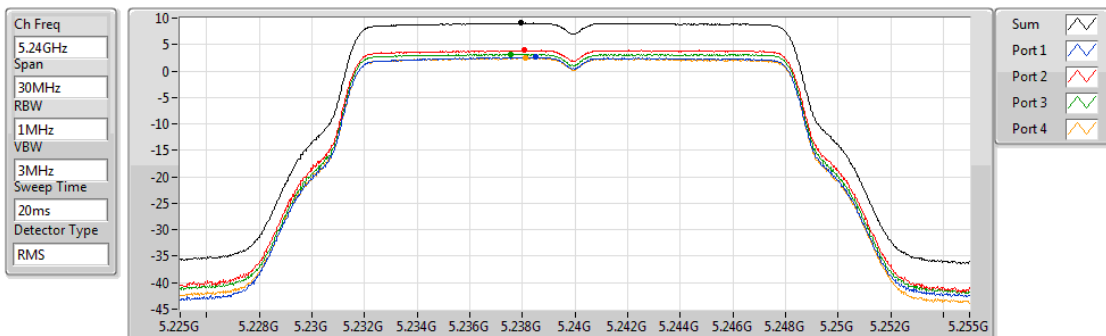


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.23	9.23	2.83	4.14	3.32	2.66

802.11a_(6Mbps)_4TX

PSD

5240MHz

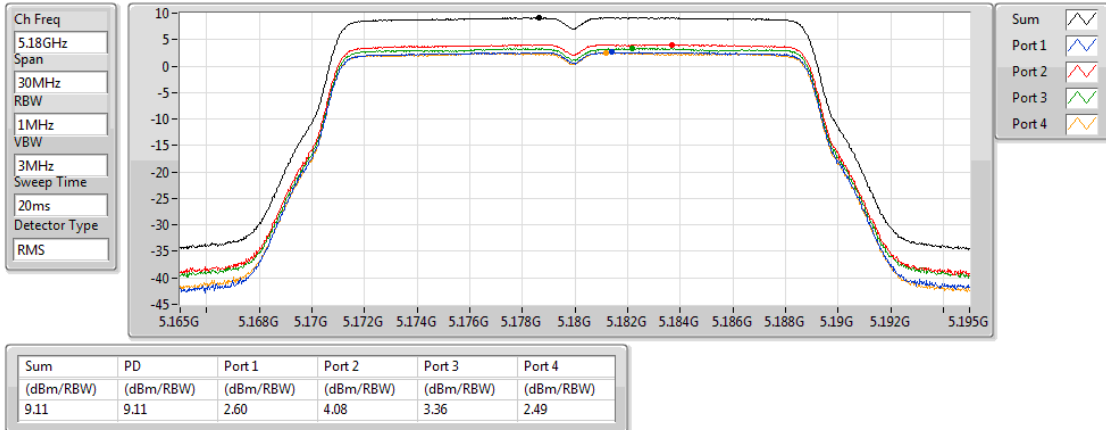


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.05	9.05	2.65	3.93	3.19	2.49

802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

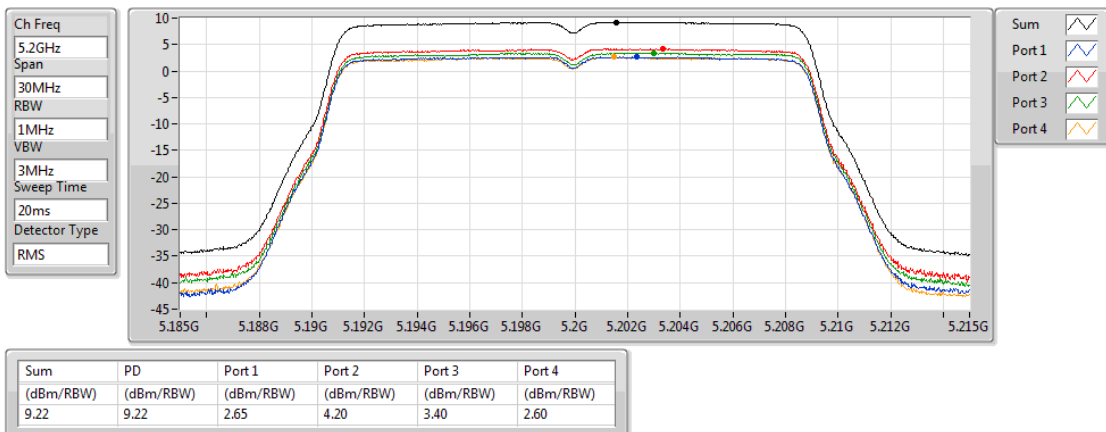
5180MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

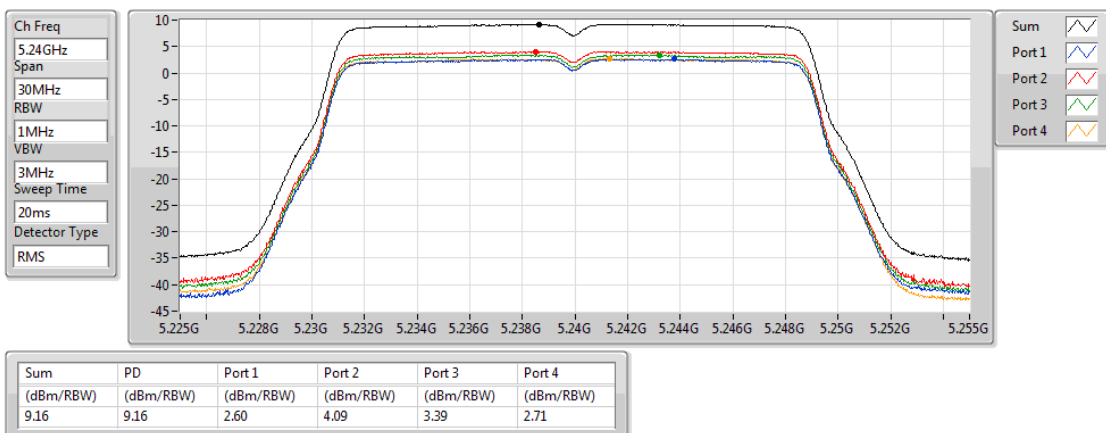
5200MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

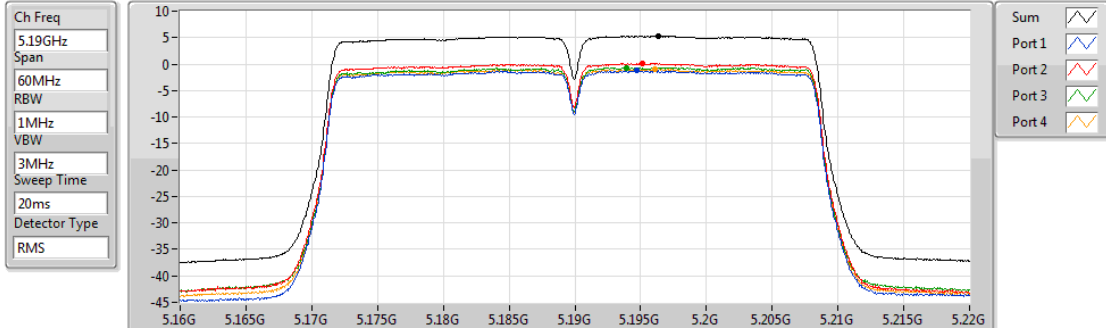
5240MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5190MHz

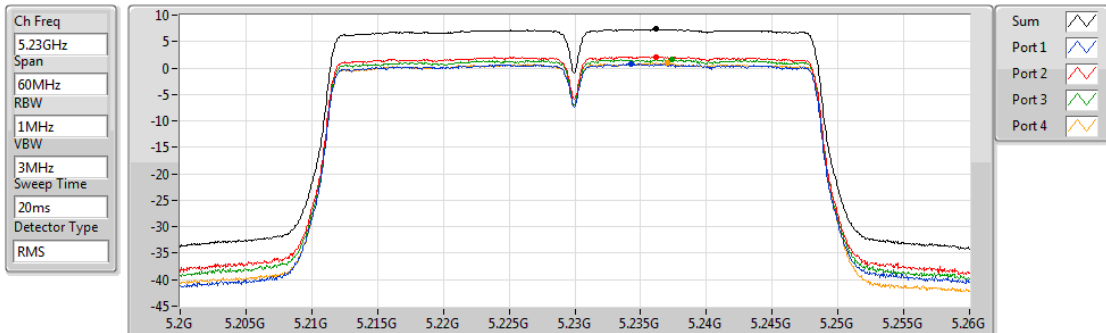


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.28	5.28	-1.24	0.13	-0.66	-0.95

802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5230MHz

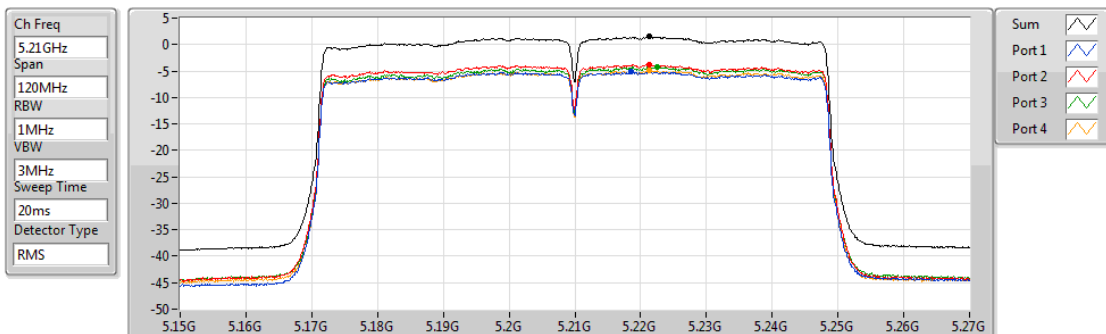


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.36	7.36	0.71	2.15	1.63	0.91

802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5210MHz

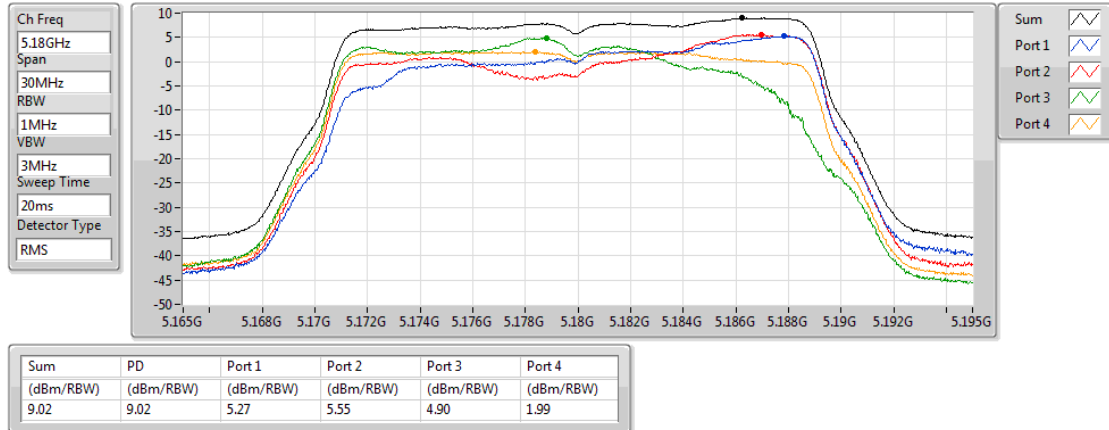


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
1.46	1.46	-5.18	-3.80	-4.22	-4.87

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

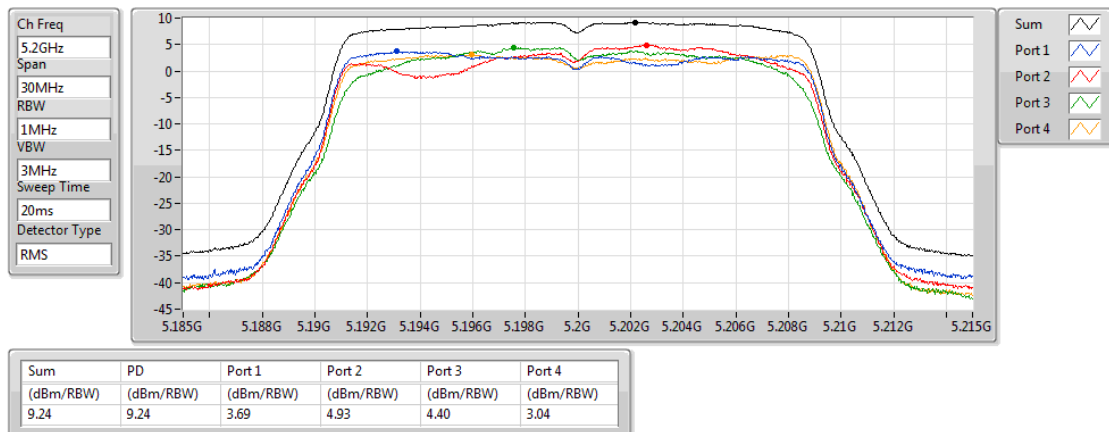
5180MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

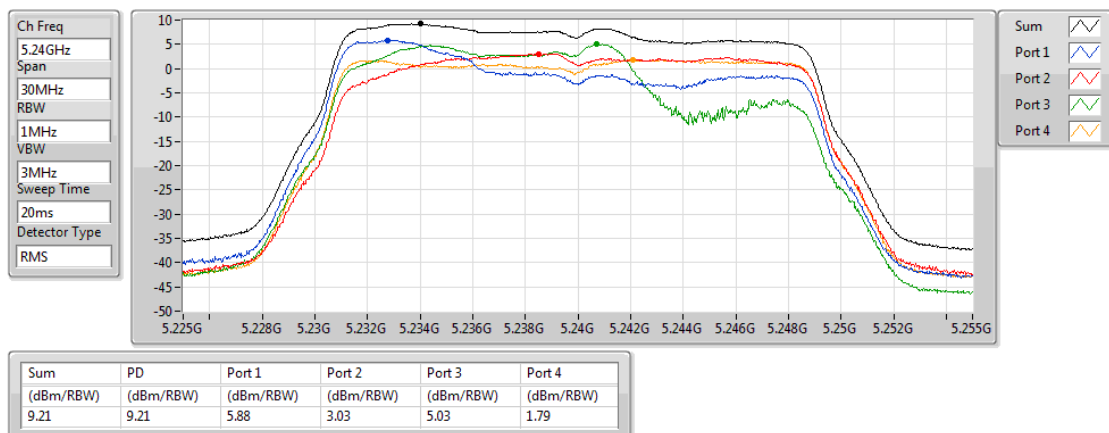
5200MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

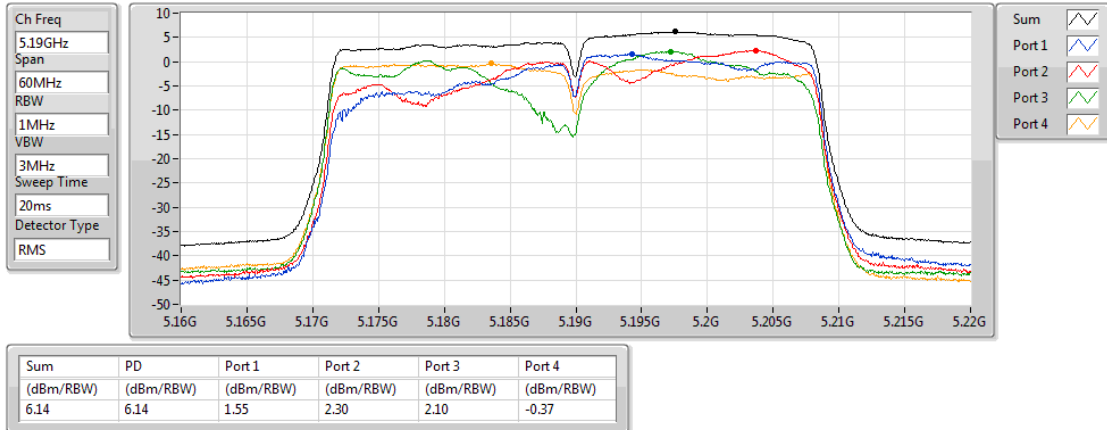
5240MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

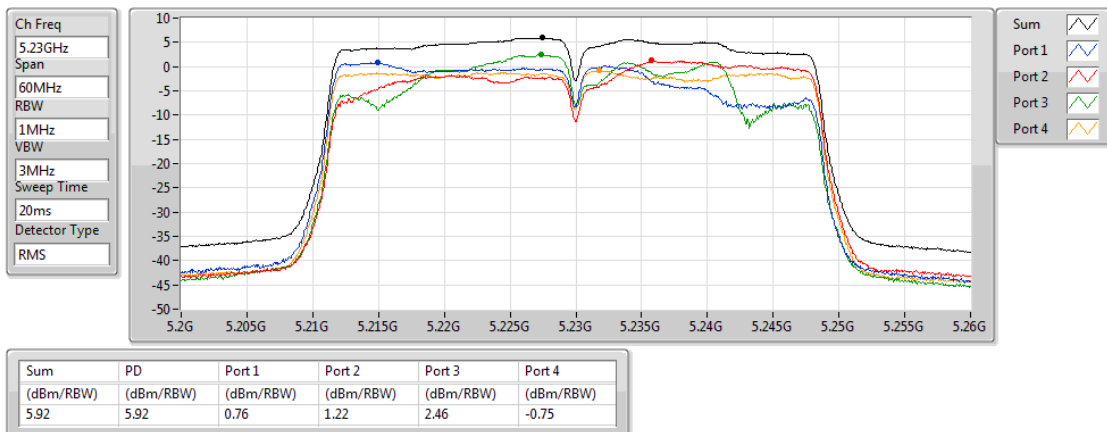
5190MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

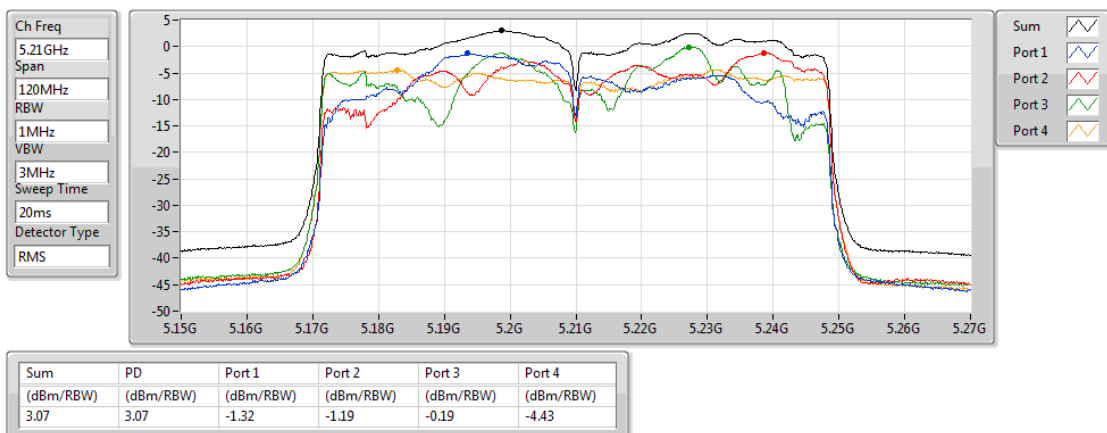
5230MHz

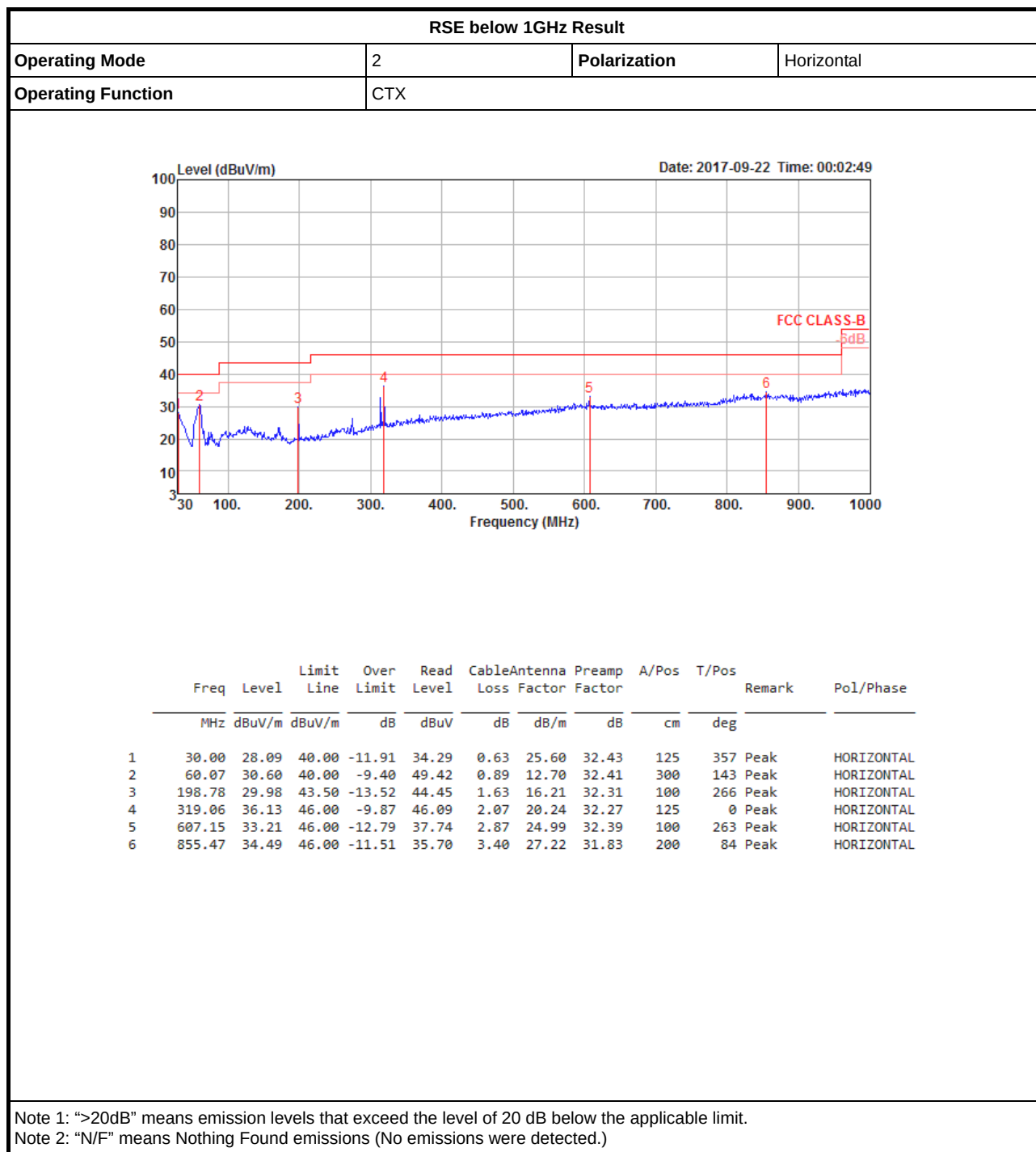


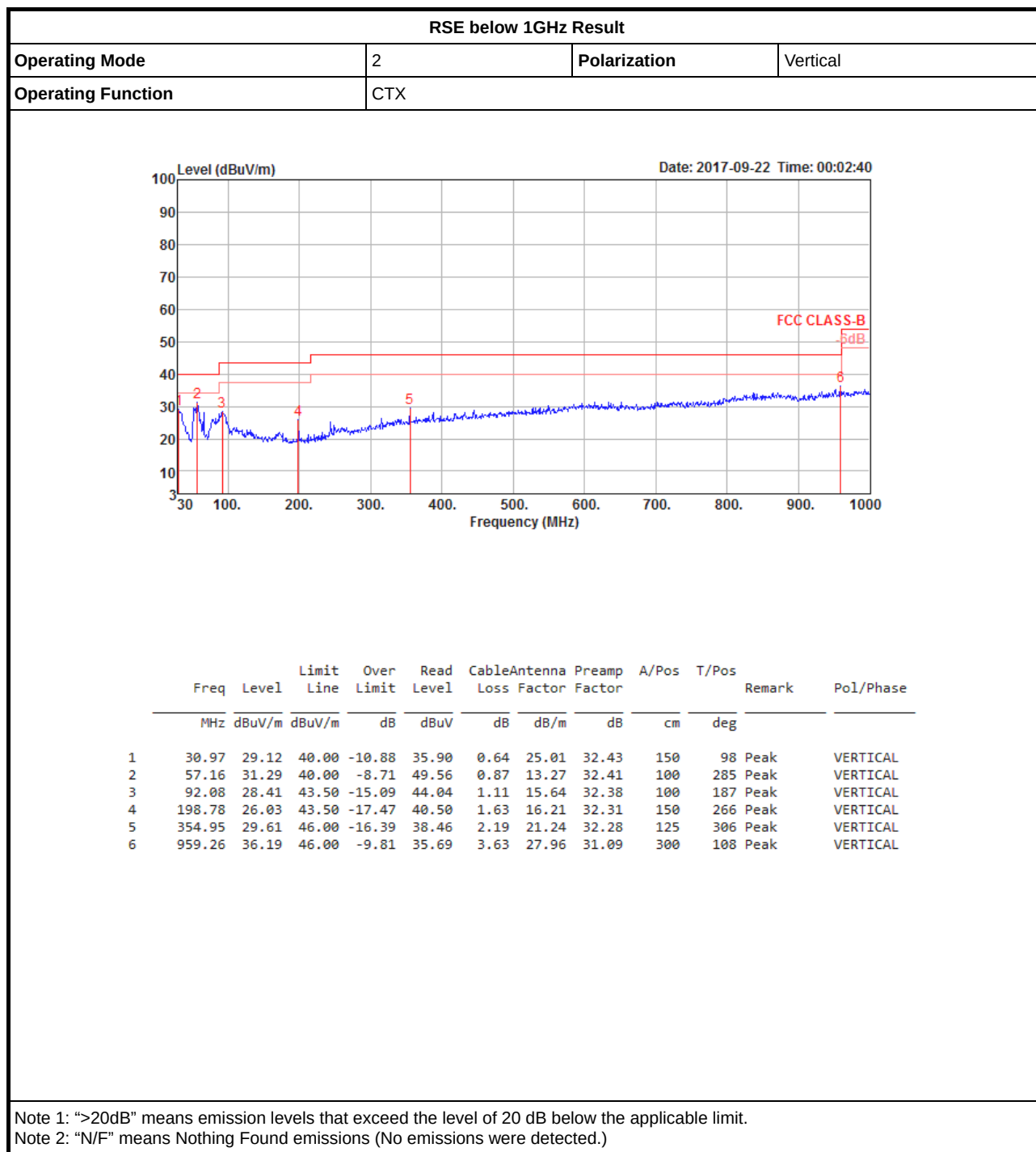
802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5210MHz





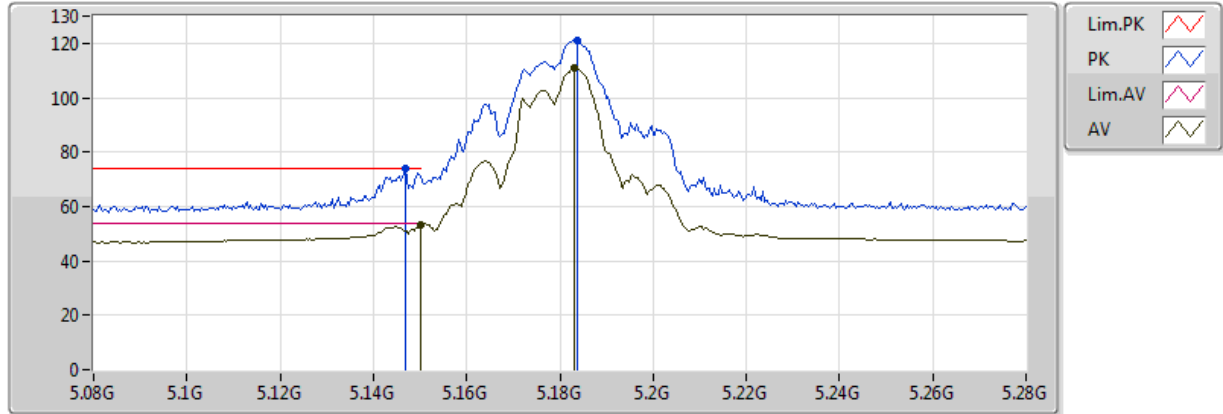


**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5.725-5.85GHz	Pass	PK	5.645G	68.19	68.20	-0.01	6.87	3	V	183	1.61	-

802.11a_(6Mbps)_4TX

5180MHz_TX

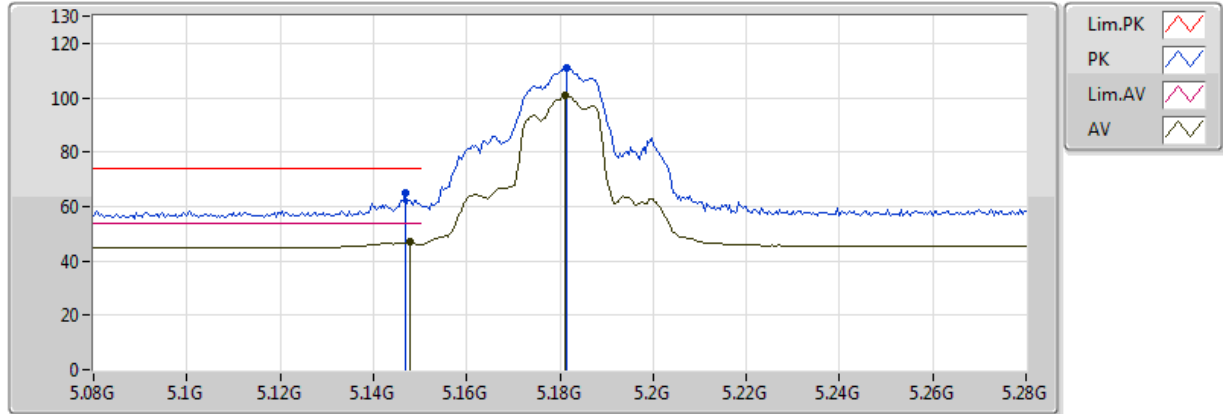


20170722
EUT_Y_4TX
Setting 76
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	52.97	54.00	-1.03	5.44	3	V	0	2.25	-
AV	5.1832G	110.68	Inf	-Inf	5.51	3	V	0	2.25	-
PK	5.1468G	73.77	74.00	-0.23	5.44	3	V	0	2.25	-
PK	5.1836G	121.05	Inf	-Inf	5.52	3	V	0	2.25	-

802.11a_(6Mbps)_4TX

5180MHz_TX

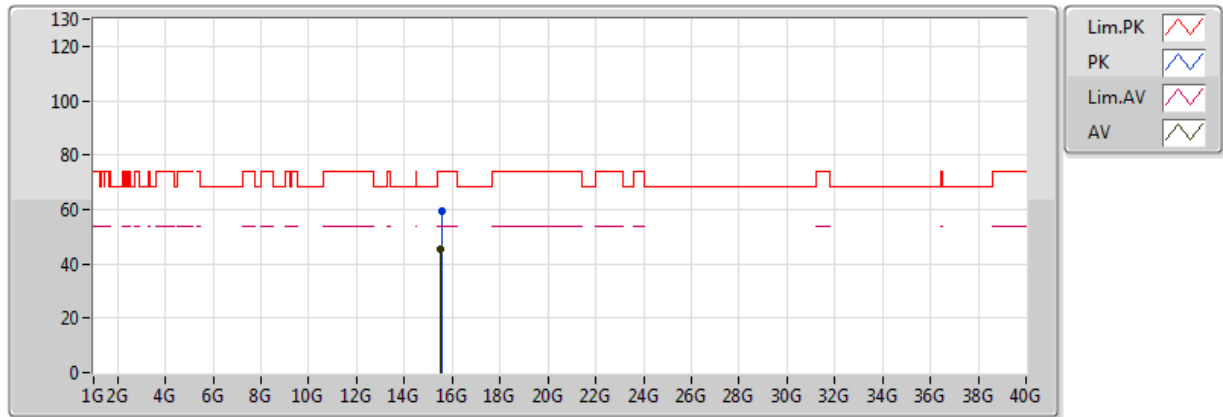


20170722
EUT_Y_4TX
Setting 76
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.148G	47.12	54.00	-6.88	5.44	3	H	86	1.43	-
AV	5.1812G	100.82	Inf	-Inf	5.51	3	H	86	1.43	-
PK	5.1468G	65.22	74.00	-8.78	5.44	3	H	86	1.43	-
PK	5.1816G	111.01	Inf	-Inf	5.51	3	H	86	1.43	-

802.11a_(6Mbps)_4TX

5180MHz_TX

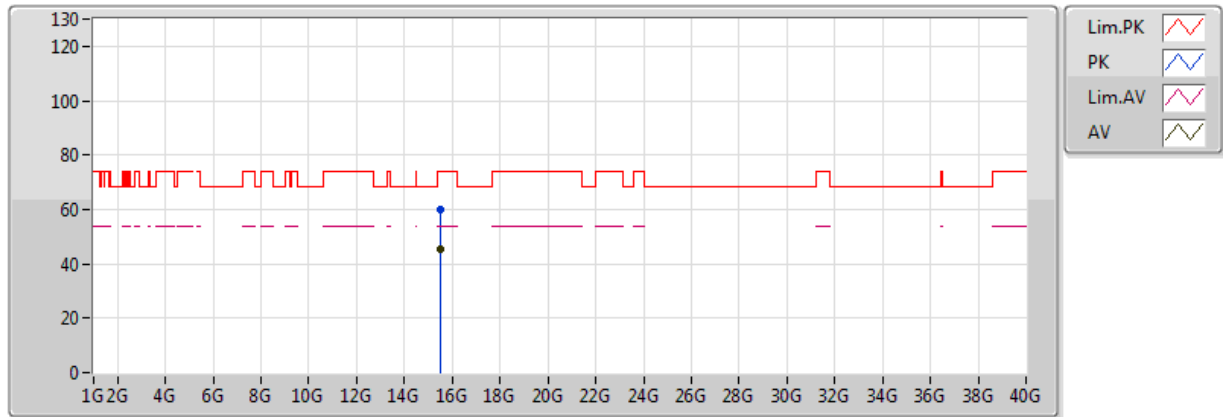


20170722
EUT_Y_4TX
Setting 76
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.53502G	45.39	54.00	-8.61	16.32	3	V	168	1.57	-
PK	15.54234G	59.31	74.00	-14.69	16.30	3	V	168	1.57	-

802.11a_(6Mbps)_4TX

5180MHz_TX

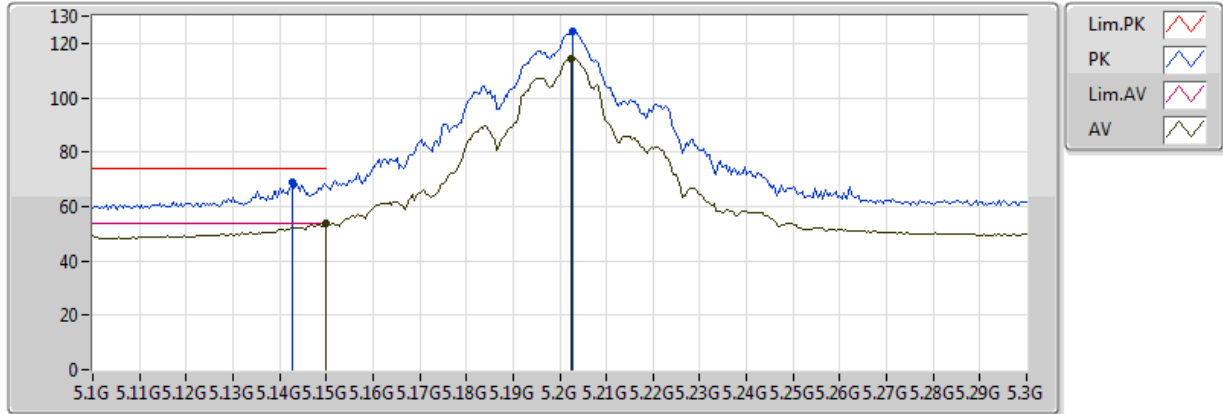


20170722
EUT_Y_4TX
Setting 76
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.53506G	45.41	54.00	-8.59	16.32	3	H	166	1.67	-
PK	15.5375G	59.89	74.00	-14.11	16.31	3	H	166	1.67	-

802.11a_(6Mbps)_4TX

5200MHz_TX

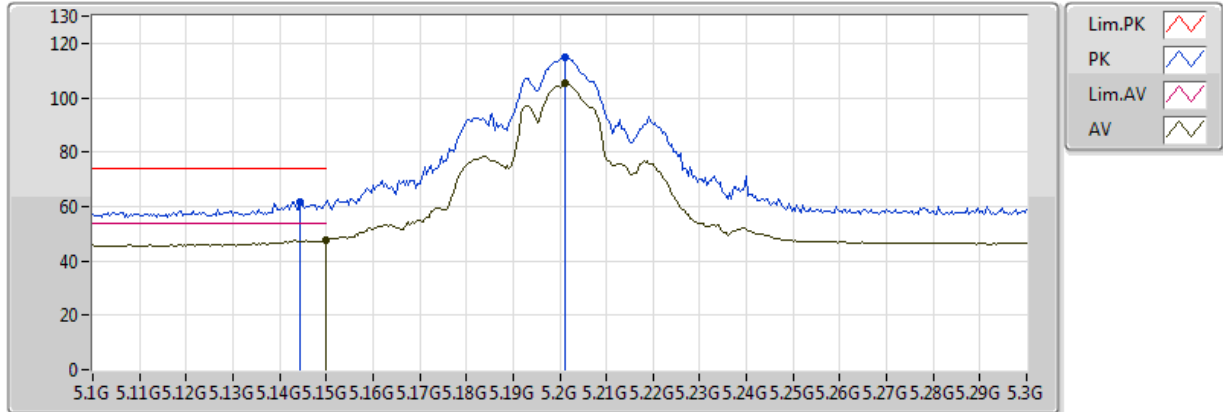


20170722
EUT_Y_4TX
Setting 96
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	53.96	54.00	-0.04	5.44	3	V	359	2.37	-
AV	5.2024G	114.18	Inf	-Inf	5.55	3	V	359	2.37	-
PK	5.1428G	68.79	74.00	-5.21	5.43	3	V	359	2.37	-
PK	5.2028G	124.30	Inf	-Inf	5.56	3	V	359	2.37	-

802.11a_(6Mbps)_4TX

5200MHz_TX

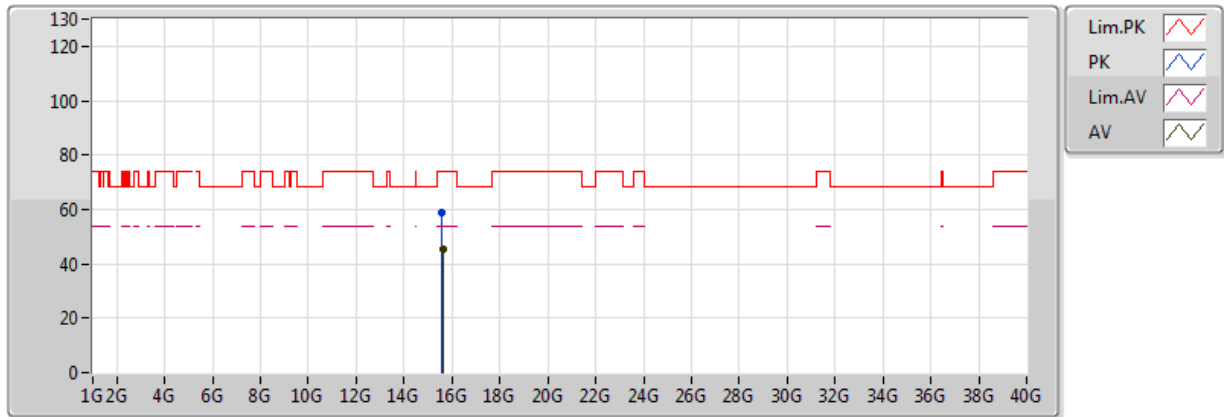


20170722
EUT_Y_4TX
Setting 96
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	47.45	54.00	-6.55	5.44	3	H	41	1.34	-
AV	5.2012G	105.15	Inf	-Inf	5.55	3	H	41	1.34	-
PK	5.1444G	61.67	74.00	-12.33	5.43	3	H	41	1.34	-
PK	5.2012G	114.75	Inf	-Inf	5.55	3	H	41	1.34	-

802.11a_(6Mbps)_4TX

5200MHz_TX

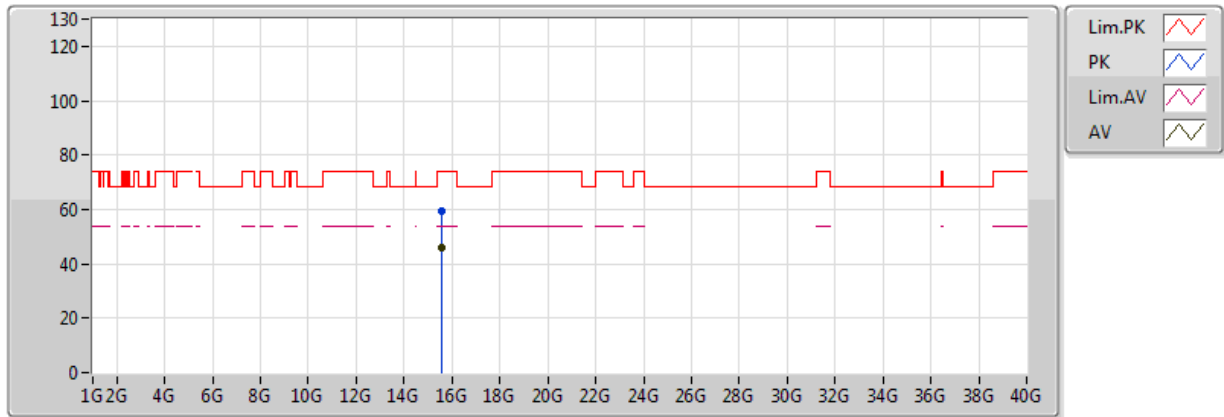


20170722
EUT_Y_4TX
Setting 96
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.60752G	45.61	54.00	-8.39	16.09	3	V	208	2.16	-
PK	15.5956G	58.78	74.00	-15.22	16.12	3	V	208	2.16	-

802.11a_(6Mbps)_4TX

5200MHz_TX

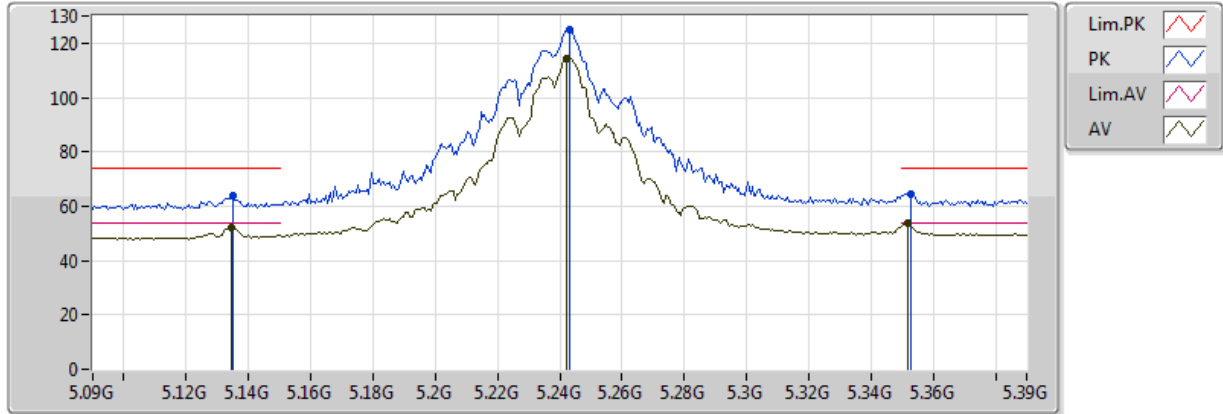


20170722
EUT_Y_4TX
Setting 96
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.59696G	45.91	54.00	-8.09	16.12	3	H	26	1.32	-
PK	15.59836G	59.25	74.00	-14.75	16.12	3	H	26	1.32	-

802.11a_(6Mbps)_4TX

5240MHz_TX

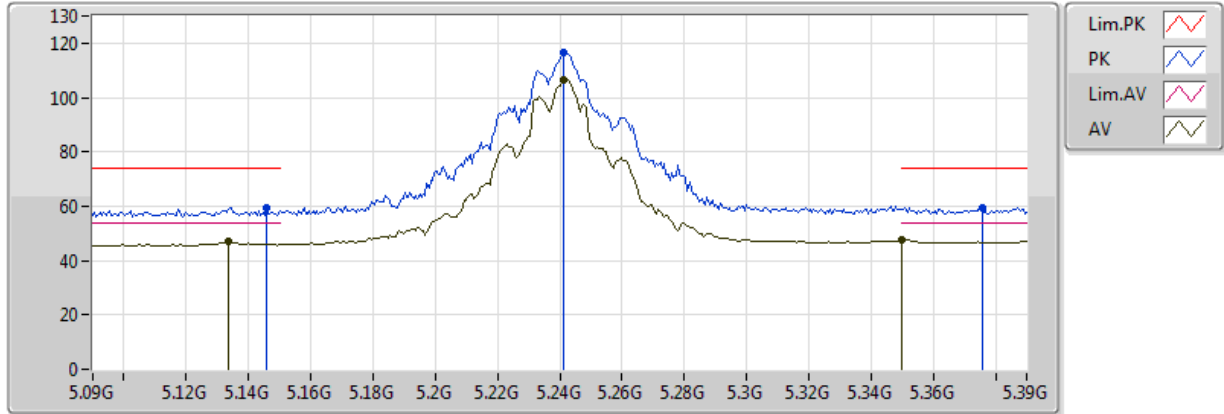


20170722
EUT Y_4TX
Setting 99
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1344G	52.19	54.00	-1.81	5.41	3	V	0	2.34	-
AV	5.2424G	114.59	Inf	-Inf	5.63	3	V	0	2.34	-
AV	5.3516G	53.55	54.00	-0.45	5.83	3	V	0	2.34	-
PK	5.135G	63.70	74.00	-10.30	5.41	3	V	0	2.34	-
PK	5.243G	125.11	Inf	-Inf	5.63	3	V	0	2.34	-
PK	5.3528G	64.69	74.00	-9.31	5.83	3	V	0	2.34	-

802.11a_(6Mbps)_4TX

5240MHz_TX

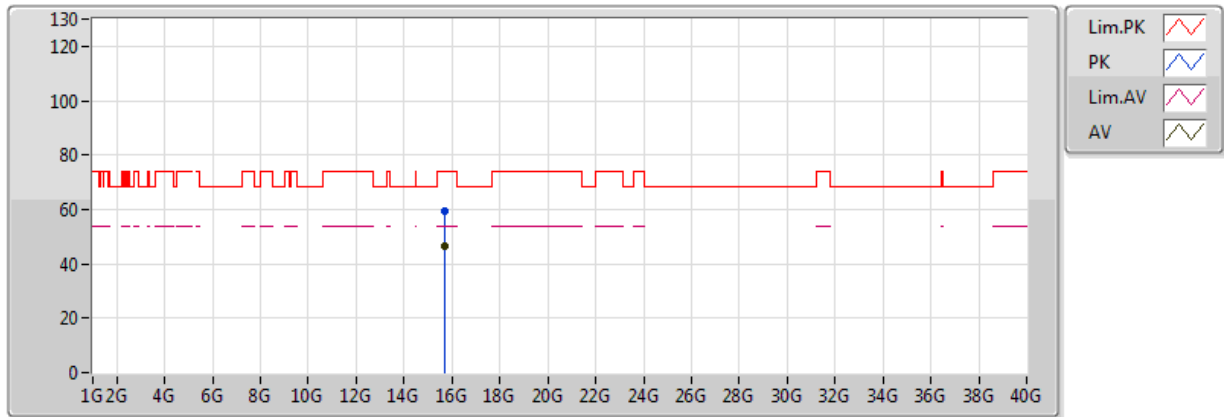


20170722
EUT_Y_4TX
Setting 99
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1338G	47.28	54.00	-6.72	5.41	3	H	46	1.02	-
AV	5.2412G	106.60	Inf	-Inf	5.63	3	H	46	1.02	-
AV	5.350005G	47.88	54.00	-6.12	5.83	3	H	46	1.02	-
PK	5.1458G	59.27	74.00	-14.73	5.44	3	H	46	1.02	-
PK	5.2412G	116.63	Inf	-Inf	5.63	3	H	46	1.02	-
PK	5.3756G	59.44	74.00	-14.56	5.87	3	H	46	1.02	-

802.11a_(6Mbps)_4TX

5240MHz_TX

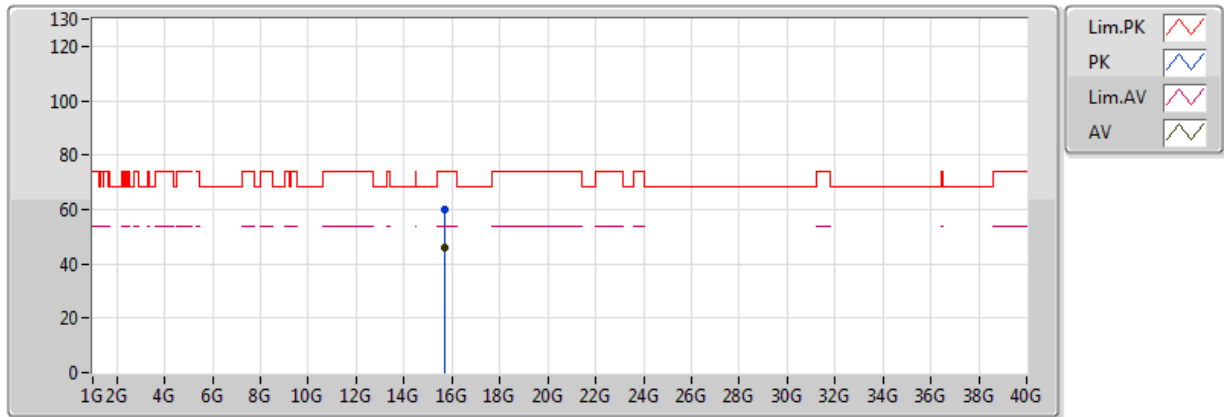


20170722
EUT_Y_4TX
Setting 99
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.7176G	46.27	54.00	-7.73	15.73	3	V	48	1.45	-
PK	15.71376G	59.62	74.00	-14.38	15.74	3	V	48	1.45	-

802.11a_(6Mbps)_4TX

5240MHz_TX

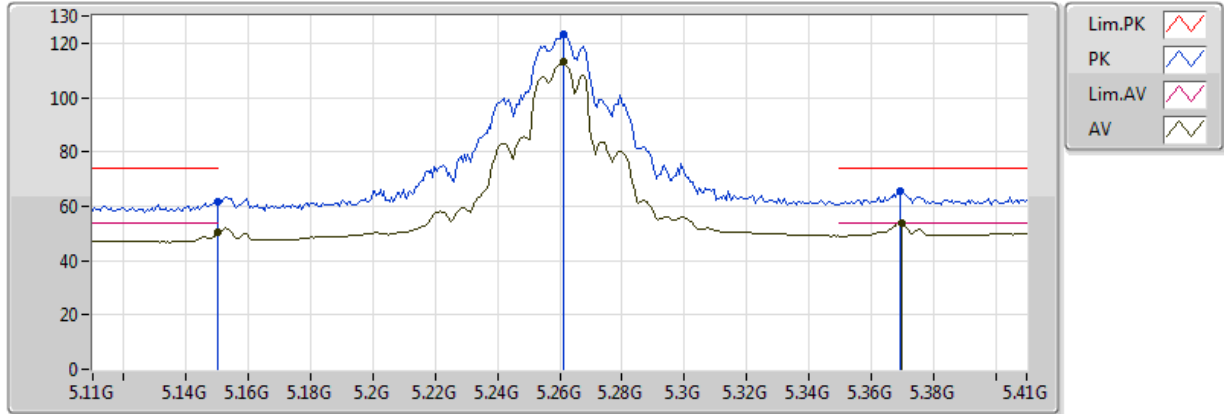


20170722
EUT_Y_4TX
Setting 99
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.71612G	46.22	54.00	-7.78	15.73	3	H	56	1.48	-
PK	15.71576G	60.15	74.00	-13.85	15.73	3	H	56	1.48	-

802.11a_(6Mbps)_4TX

5260MHz_TX

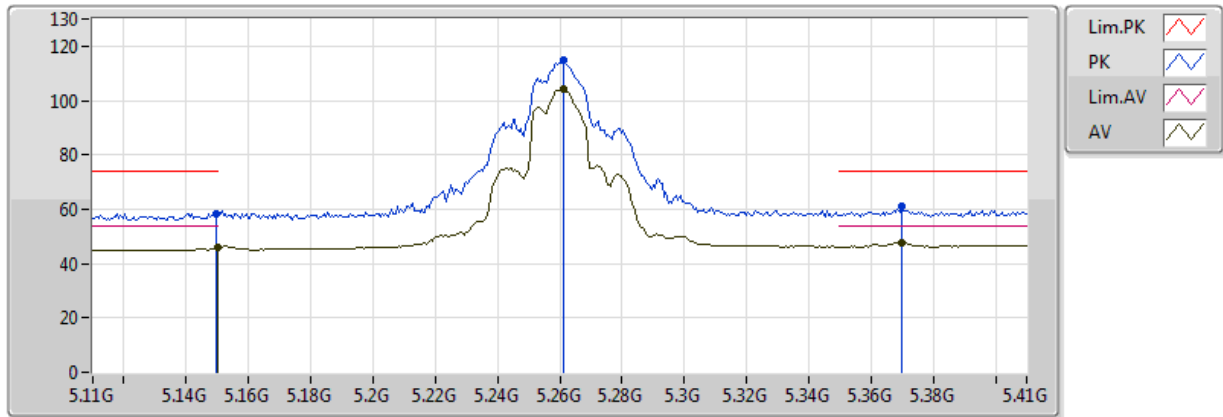


20170722
EUT_Y_4TX
Setting 94
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	50.54	54.00	-3.46	5.44	3	V	355	2.33	-
AV	5.2612G	113.03	Inf	-Inf	5.67	3	V	355	2.33	-
AV	5.3698G	53.76	54.00	-0.24	5.86	3	V	355	2.33	-
PK	5.149995G	61.82	74.00	-12.18	5.44	3	V	355	2.33	-
PK	5.2612G	123.45	Inf	-Inf	5.67	3	V	355	2.33	-
PK	5.3692G	65.33	74.00	-8.67	5.86	3	V	355	2.33	-

802.11a_(6Mbps)_4TX

5260MHz_TX

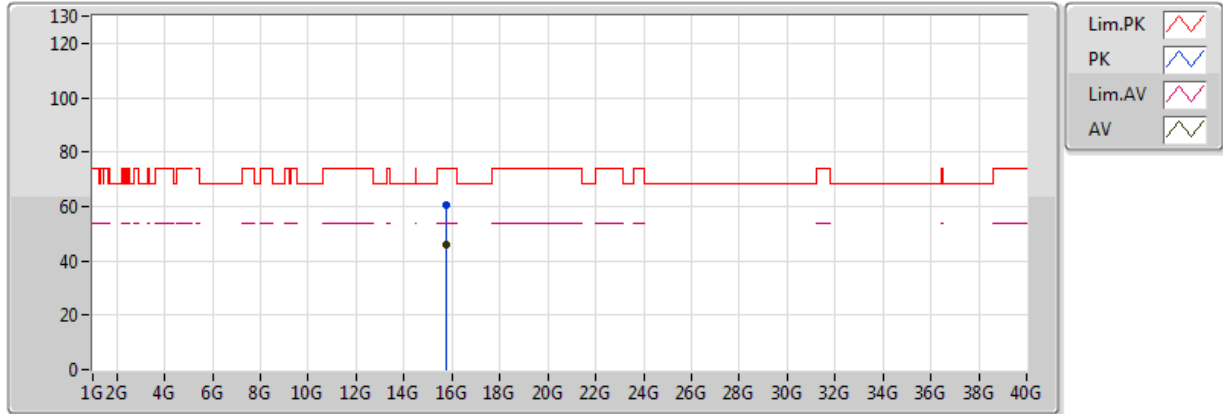


20170722
EUT_Y_4TX
Setting 94
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	46.06	54.00	-7.94	5.44	3	H	44	1.22	-
AV	5.2612G	104.41	Inf	-Inf	5.67	3	H	44	1.22	-
AV	5.3698G	47.88	54.00	-6.12	5.86	3	H	44	1.22	-
PK	5.1496G	58.36	74.00	-15.64	5.44	3	H	44	1.22	-
PK	5.2612G	114.79	Inf	-Inf	5.67	3	H	44	1.22	-
PK	5.3698G	60.82	74.00	-13.18	5.86	3	H	44	1.22	-

802.11a_(6Mbps)_4TX

5260MHz_TX

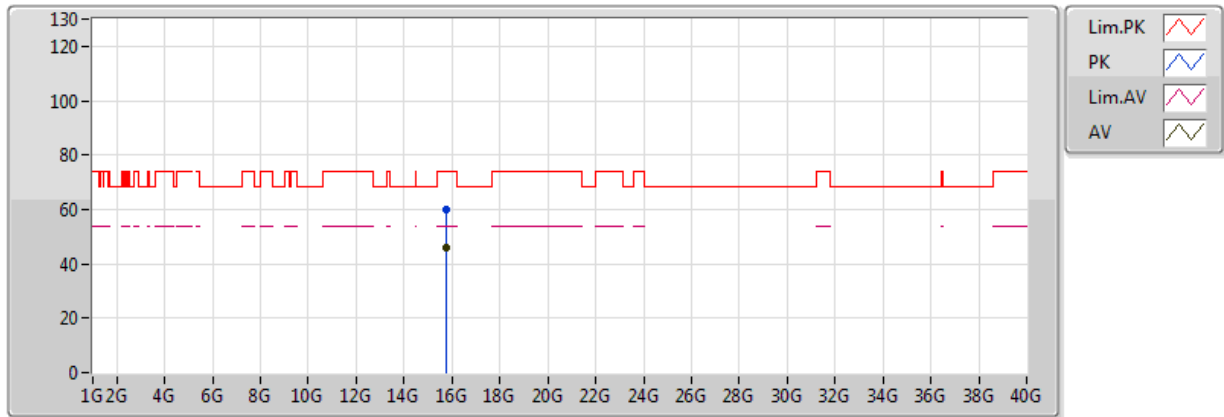


20170722
EUT_Y_4TX
Setting 94
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.78416G	45.74	54.00	-8.26	15.51	3	V	96	2.12	-
PK	15.7872G	60.37	74.00	-13.63	15.50	3	V	96	2.12	-

802.11a_(6Mbps)_4TX

5260MHz_TX

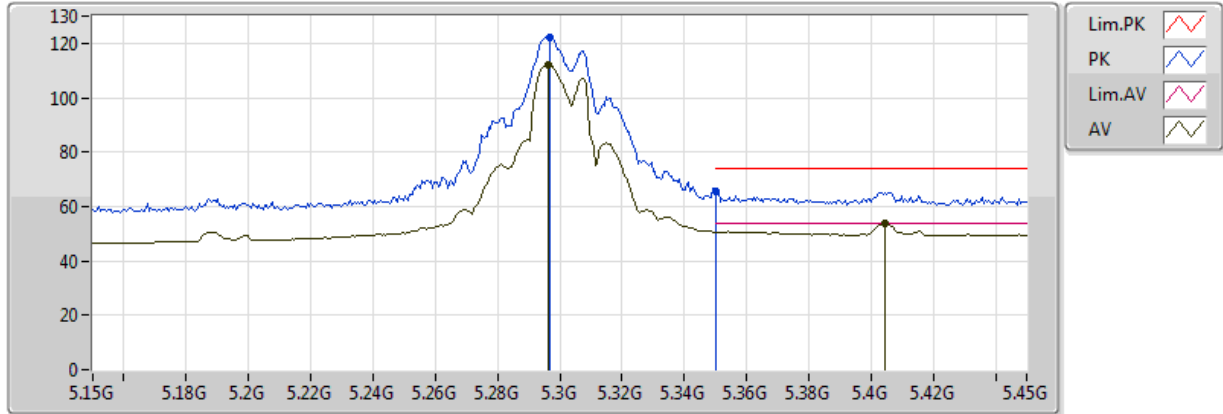


20170722
EUT_Y_4TX
Setting 94
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.78416G	45.83	54.00	-8.17	15.51	3	H	295	1.60	-
PK	15.78752G	60.10	74.00	-13.90	15.50	3	H	295	1.60	-

802.11a_(6Mbps)_4TX

5300MHz_TX

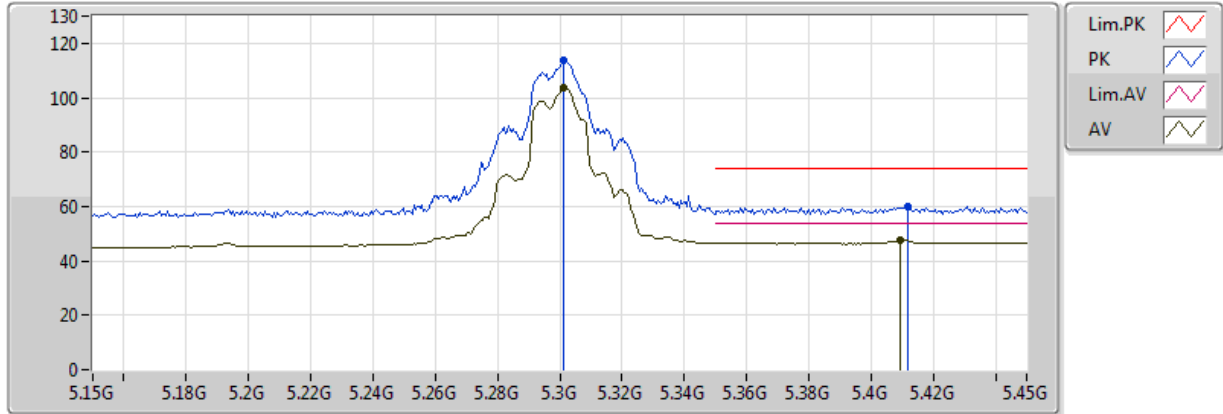


20170722
EUT_Y_4TX
Setting 90
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.2964G	112.24	Inf	-Inf	5.73	3	V	318	1.02	-
AV	5.4044G	53.61	54.00	-0.39	5.92	3	V	318	1.02	-
PK	5.297G	122.41	Inf	-Inf	5.73	3	V	318	1.02	-
PK	5.3504G	65.83	74.00	-8.17	5.83	3	V	318	1.02	-

802.11a_(6Mbps)_4TX

5300MHz_TX

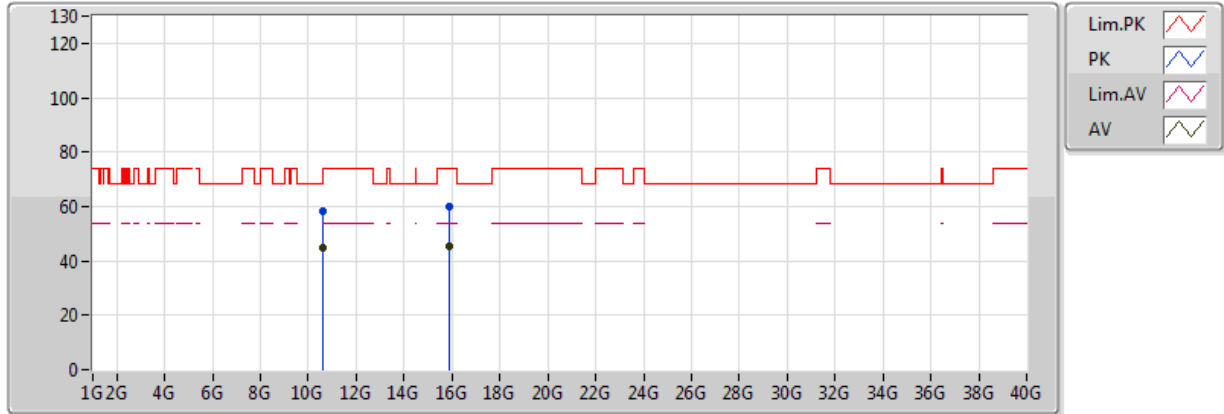


20170722
EUT_Y_4TX
Setting 90
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.3012G	103.47	Inf	-Inf	5.74	3	H	48	1.08	-
AV	5.4092G	47.84	54.00	-6.16	5.93	3	H	48	1.08	-
PK	5.3012G	113.84	Inf	-Inf	5.74	3	H	48	1.08	-
PK	5.4116G	59.83	74.00	-14.17	5.94	3	H	48	1.08	-

802.11a_(6Mbps)_4TX

5300MHz_TX

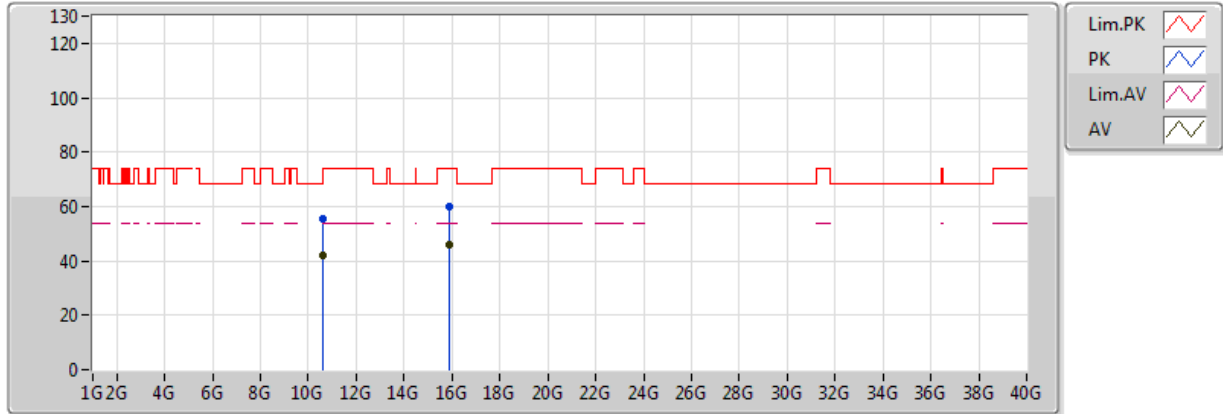


20170722
EUT_Y_4TX
Setting 90
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.60324G	44.91	54.00	-9.09	12.55	3	V	233	1.51	-
AV	15.90256G	45.60	54.00	-8.40	15.13	3	V	93	1.09	-
PK	10.60336G	58.43	74.00	-15.57	12.55	3	V	233	1.51	-
PK	15.89904G	60.16	74.00	-13.84	15.14	3	V	93	1.09	-

802.11a_(6Mbps)_4TX

5300MHz_TX

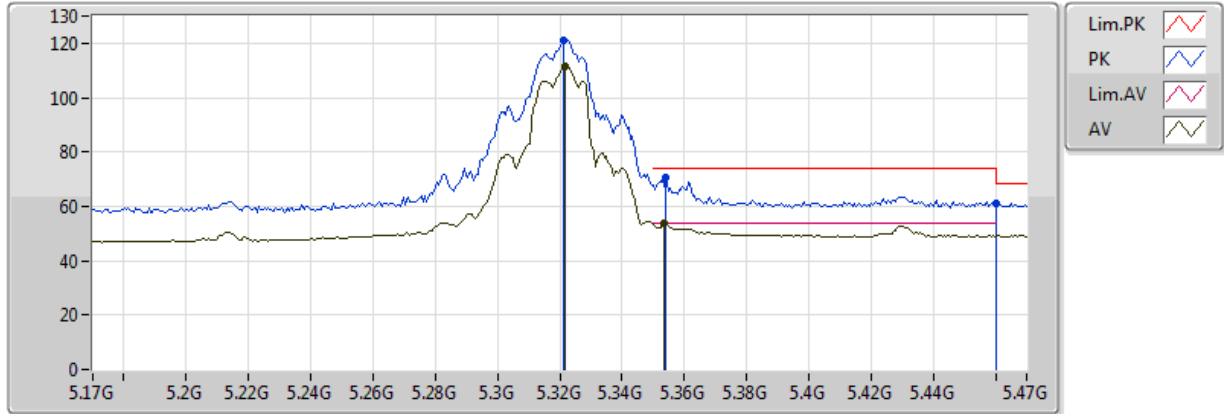


20170722
EUT_Y_4TX
Setting 90
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.6032G	42.01	54.00	-11.99	12.55	3	H	255	1.74	-
AV	15.90472G	45.77	54.00	-8.23	15.12	3	H	232	1.04	-
PK	10.60372G	55.71	74.00	-18.29	12.55	3	H	255	1.74	-
PK	15.90736G	59.94	74.00	-14.06	15.11	3	H	232	1.04	-

802.11a_(6Mbps)_4TX

5320MHz_TX

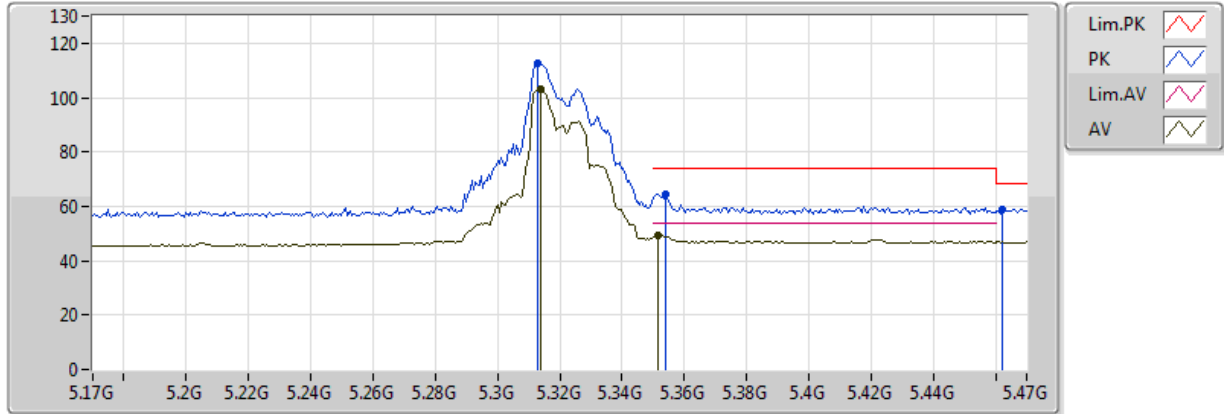


20170722
EUT_Y_4TX
Setting 86
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.3218G	111.66	Inf	-Inf	5.78	3	V	359	2.42	-
AV	5.3536G	53.93	54.00	-0.07	5.83	3	V	359	2.42	-
PK	5.3212G	121.26	Inf	-Inf	5.78	3	V	359	2.42	-
PK	5.3542G	70.62	74.00	-3.38	5.83	3	V	359	2.42	-
PK	5.4604G	60.80	68.20	-7.40	6.06	3	V	359	2.42	-

802.11a_(6Mbps)_4TX

5320MHz_TX

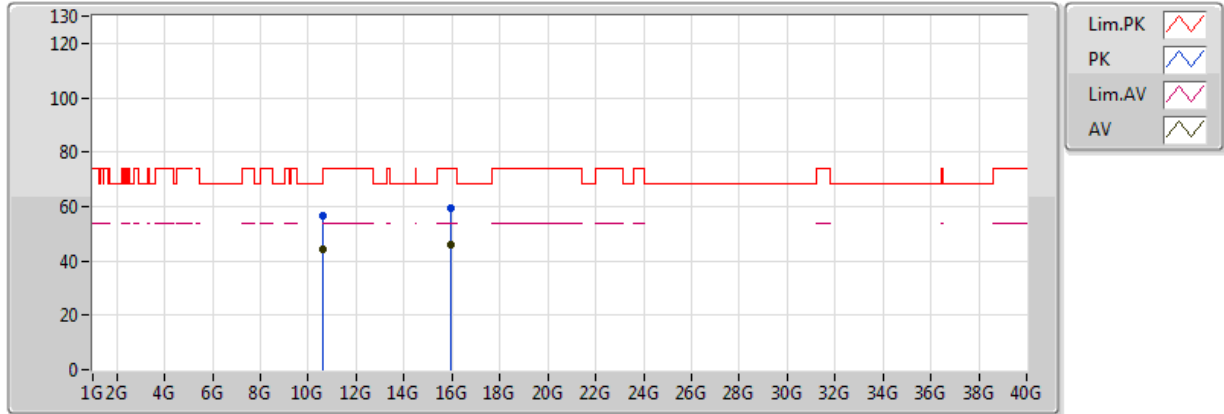


20170722
EUT_Y_4TX
Setting 86
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.314G	103.33	Inf	-Inf	5.76	3	H	73	2.74	-
AV	5.3518G	49.59	54.00	-4.41	5.83	3	H	73	2.74	-
PK	5.3128G	112.55	Inf	-Inf	5.76	3	H	73	2.74	-
PK	5.4622G	58.99	68.20	-9.21	6.07	3	H	73	2.74	-
PK	5.3542G	64.71	74.00	-9.29	5.83	3	H	73	2.74	-

802.11a_(6Mbps)_4TX

5320MHz_TX

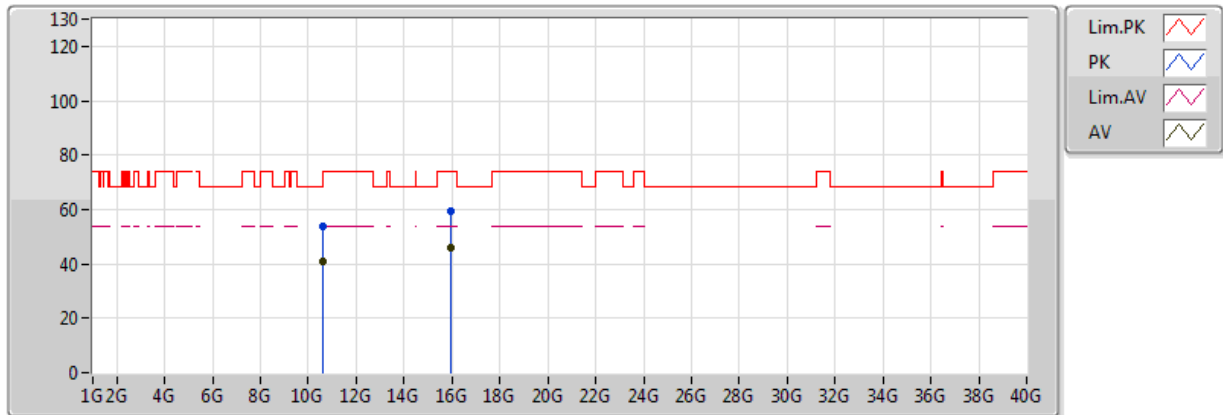


20170722
EUT_Y_4TX
Setting 86
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.63632G	44.35	54.00	-9.65	12.58	3	V	224	1.63	-
AV	15.95488G	45.94	54.00	-8.06	14.96	3	V	115	1.50	-
PK	10.6364G	56.78	74.00	-17.22	12.58	3	V	224	1.63	-
PK	15.96544G	59.49	74.00	-14.51	14.92	3	V	115	1.50	-

802.11a_(6Mbps)_4TX

5320MHz_TX

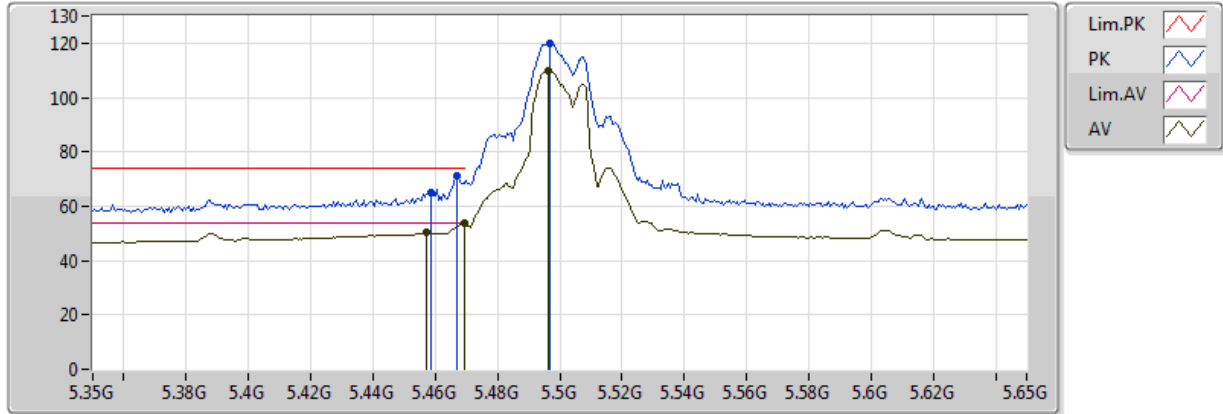


20170722
EUT_Y_4TX
Setting 86
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.6362G	40.95	54.00	-13.05	12.58	3	H	310	2.23	-
AV	15.95704G	45.90	54.00	-8.10	14.95	3	H	136	2.00	-
PK	10.6373G	53.60	74.00	-20.40	12.58	3	H	310	2.23	-
PK	15.95444G	59.19	74.00	-14.81	14.96	3	H	136	2.00	-

802.11a_(6Mbps)_4TX

5500MHz_TX

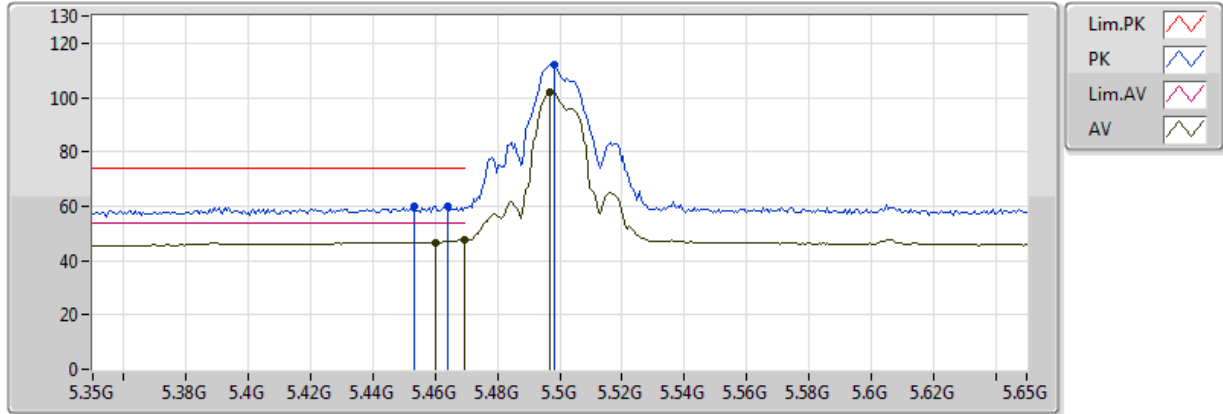


20170722
EUT Y_4TX
Setting 82
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.4574G	50.28	54.00	-3.72	6.05	3	V	322	1.01	-
AV	5.4694G	53.59	54.00	-0.41	6.08	3	V	322	1.01	-
AV	5.4964G	109.84	Inf	-Inf	6.15	3	V	322	1.01	-
PK	5.4586G	64.74	74.00	-9.26	6.06	3	V	322	1.01	-
PK	5.467G	71.36	74.00	-2.64	6.08	3	V	322	1.01	-
PK	5.497G	119.85	Inf	-Inf	6.15	3	V	322	1.01	-

802.11a_(6Mbps)_4TX

5500MHz_TX

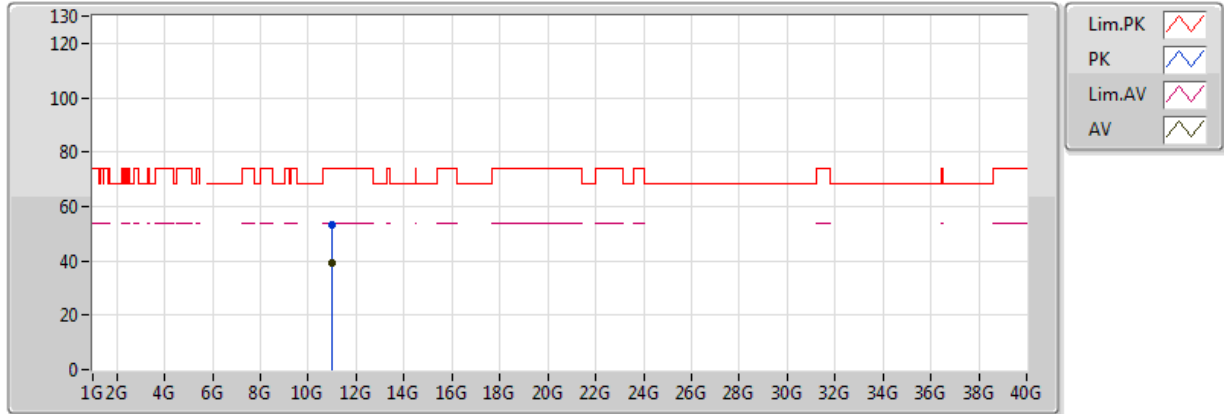


20170722
EUT_Y_4TX
Setting 82
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.459995G	46.77	54.00	-7.23	6.06	3	H	56	1.01	-
AV	5.4694G	47.50	54.00	-6.50	6.08	3	H	56	1.01	-
AV	5.497G	101.90	Inf	-Inf	6.15	3	H	56	1.01	-
PK	5.4532G	60.06	74.00	-13.94	6.04	3	H	56	1.01	-
PK	5.464G	59.96	74.00	-14.04	6.07	3	H	56	1.01	-
PK	5.4982G	112.06	Inf	-Inf	6.16	3	H	56	1.01	-

802.11a_(6Mbps)_4TX

5500MHz_TX

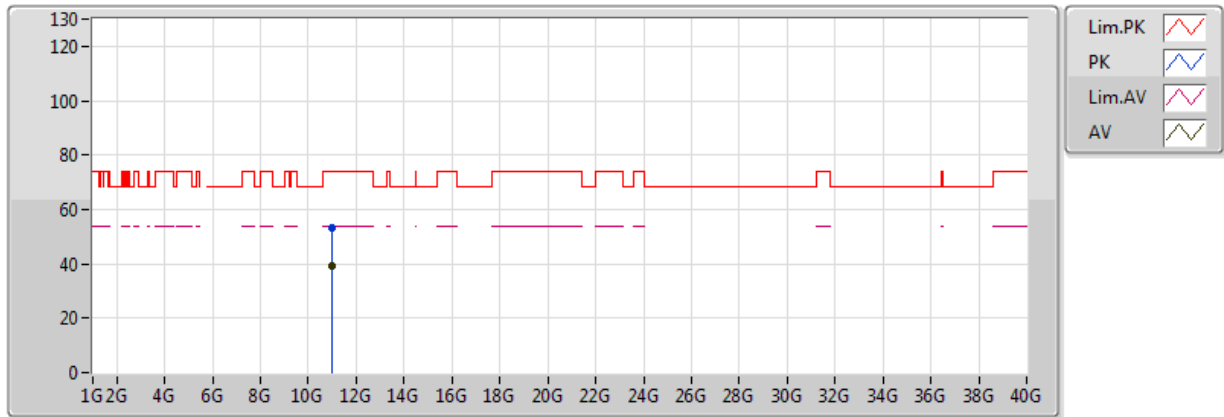


20170722
EUT_Y_4TX
Setting 82
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.00366G	38.97	54.00	-15.03	12.92	3	V	240	1.25	-
PK	11.00112G	53.16	74.00	-20.84	12.92	3	V	240	1.25	-

802.11a_(6Mbps)_4TX

5500MHz_TX

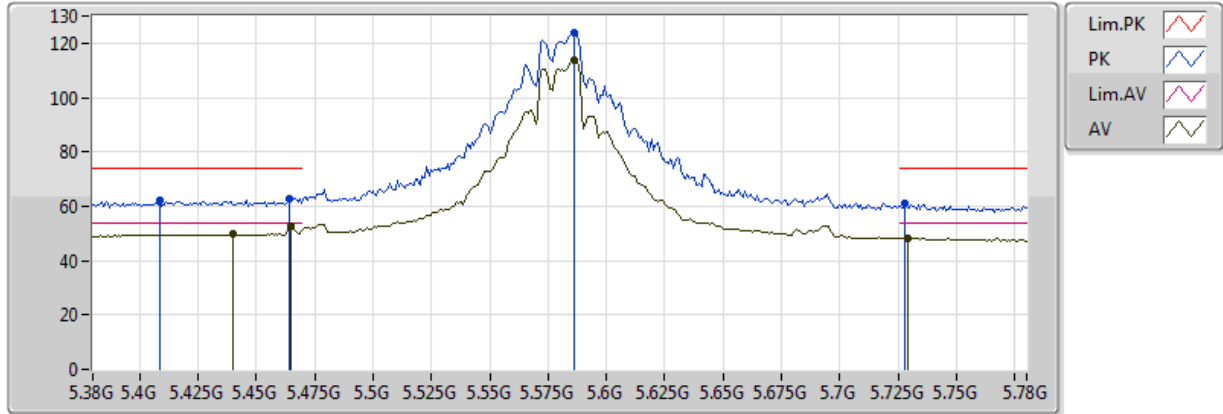


20170722
EUT_Y_4TX
Setting 82
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.00386G	39.03	54.00	-14.97	12.92	3	H	259	2.39	-
PK	10.998G	53.19	74.00	-20.81	12.92	3	H	259	2.39	-

802.11a_(6Mbps)_4TX

5580MHz_TX

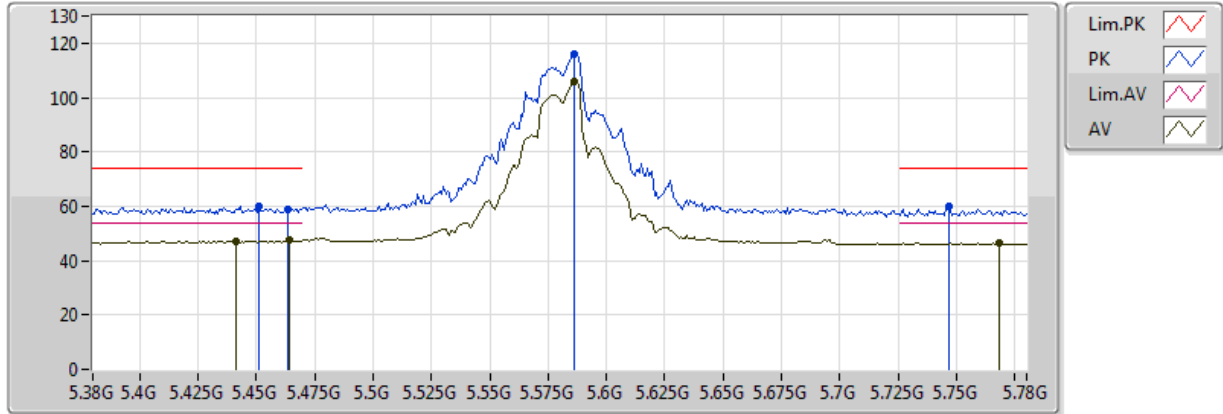


20170722
EUT_Y_4TX
Setting 100
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.44G	49.72	54.00	-4.28	6.01	3	V	0	1.00	-
AV	5.4648G	52.49	54.00	-1.51	6.07	3	V	0	1.00	-
AV	5.5864G	113.88	Inf	-Inf	6.23	3	V	0	1.00	-
AV	5.7288G	48.36	54.00	-5.64	6.25	3	V	0	1.00	-
PK	5.4088G	62.30	74.00	-11.70	5.93	3	V	0	1.00	-
PK	5.464G	63.03	74.00	-10.97	6.07	3	V	0	1.00	-
PK	5.5864G	123.87	Inf	-Inf	6.23	3	V	0	1.00	-
PK	5.728G	61.15	74.00	-12.85	6.25	3	V	0	1.00	-

802.11a_(6Mbps)_4TX

5580MHz_TX

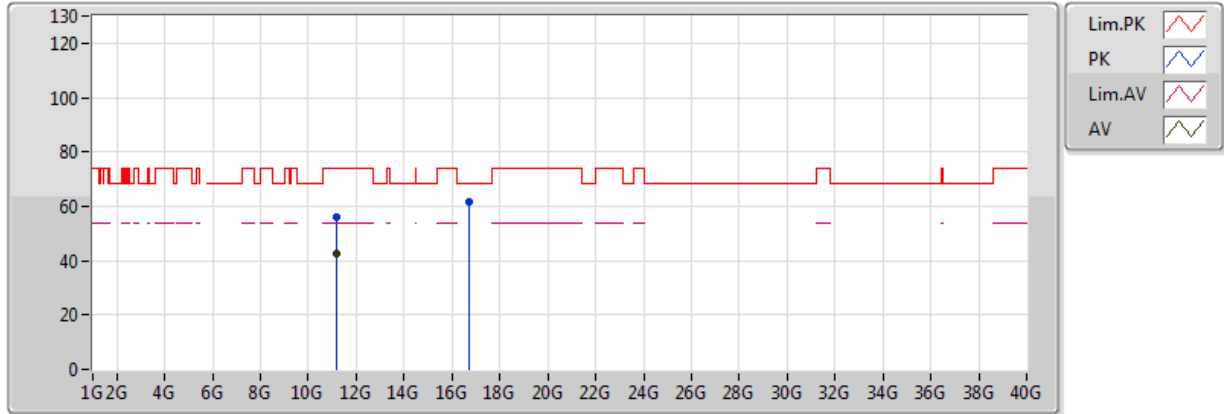


20170722
EUT Y_4TX
Setting 100
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.4416G	47.21	54.00	-6.79	6.01	3	H	50	1.52	-
AV	5.464G	47.46	54.00	-6.54	6.07	3	H	50	1.52	-
AV	5.5864G	105.99	Inf	-Inf	6.23	3	H	50	1.52	-
AV	5.768G	46.37	54.00	-7.63	6.25	3	H	50	1.52	-
PK	5.4512G	60.23	74.00	-13.77	6.04	3	H	50	1.52	-
PK	5.4632G	58.86	74.00	-15.14	6.07	3	H	50	1.52	-
PK	5.5864G	116.27	Inf	-Inf	6.23	3	H	50	1.52	-
PK	5.7464G	59.81	74.00	-14.19	6.25	3	H	50	1.52	-

802.11a_(6Mbps)_4TX

5580MHz_TX

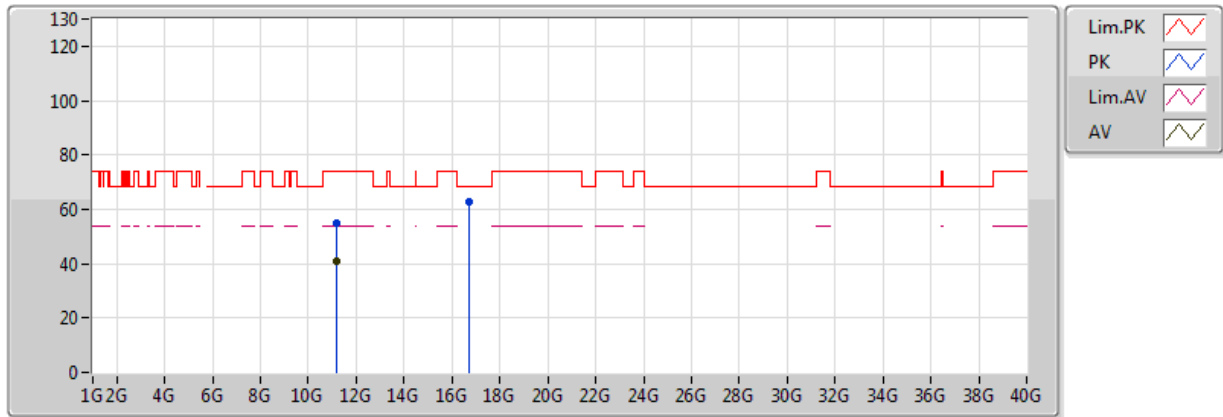


20170722
EUT_Y_4TX
Setting 100
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.16176G	42.66	54.00	-11.34	13.08	3	V	323	2.17	-
PK	11.15952G	56.31	74.00	-17.69	13.08	3	V	323	2.17	-
PK	16.74168G	61.65	68.20	-6.55	17.69	3	V	16	1.49	-

802.11a_(6Mbps)_4TX

5580MHz_TX

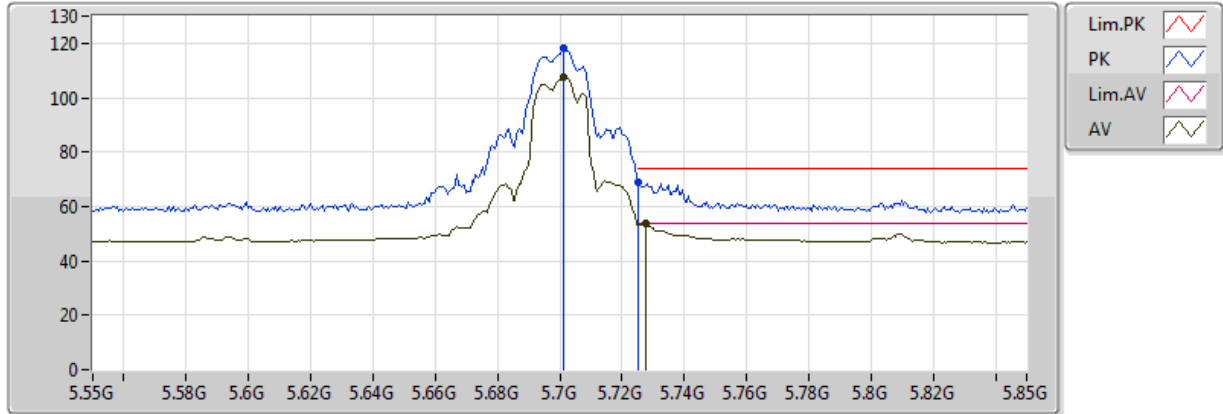


20170722
EUT_Y_4TX
Setting 100
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.16164G	41.05	54.00	-12.95	13.08	3	H	298	1.02	-
PK	11.16212G	54.98	74.00	-19.02	13.09	3	H	298	1.02	-
PK	16.7376G	62.54	68.20	-5.66	17.67	3	H	207	1.27	-

802.11a_(6Mbps)_4TX

5700MHz_TX

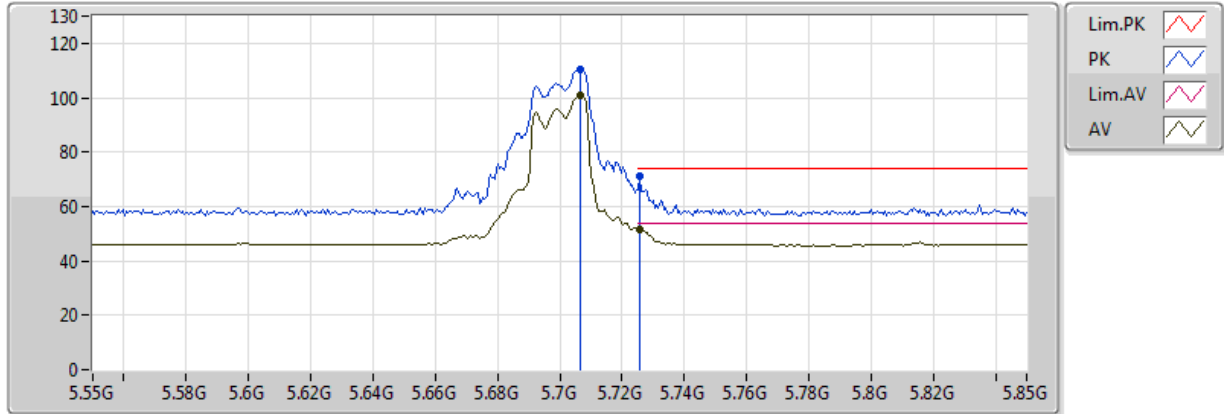


20170722
EUT_Y_4TX
Setting 81
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7012G	107.85	Inf	-Inf	6.25	3	V	350	1.52	-
AV	5.7276G	53.92	54.00	-0.08	6.25	3	V	350	1.52	-
PK	5.7012G	118.09	Inf	-Inf	6.25	3	V	350	1.52	-
PK	5.7252G	68.87	74.00	-5.13	6.25	3	V	350	1.52	-

802.11a_(6Mbps)_4TX

5700MHz_TX

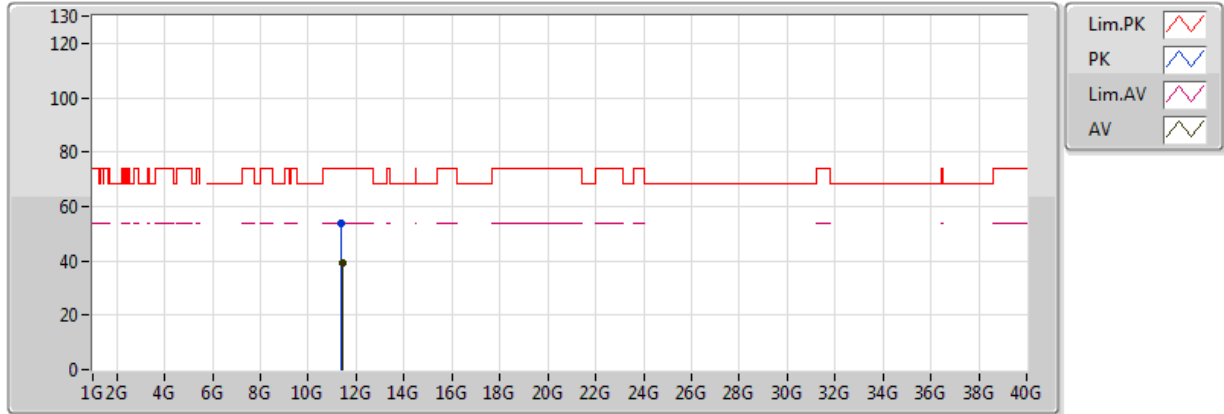


20170722
EUT_Y_4TX
Setting 81
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7066G	100.97	Inf	-Inf	6.25	3	H	53	2.12	-
AV	5.7258G	51.44	54.00	-2.56	6.25	3	H	53	2.12	-
PK	5.7066G	110.66	Inf	-Inf	6.25	3	H	53	2.12	-
PK	5.7258G	71.20	74.00	-2.80	6.25	3	H	53	2.12	-

802.11a_(6Mbps)_4TX

5700MHz_TX

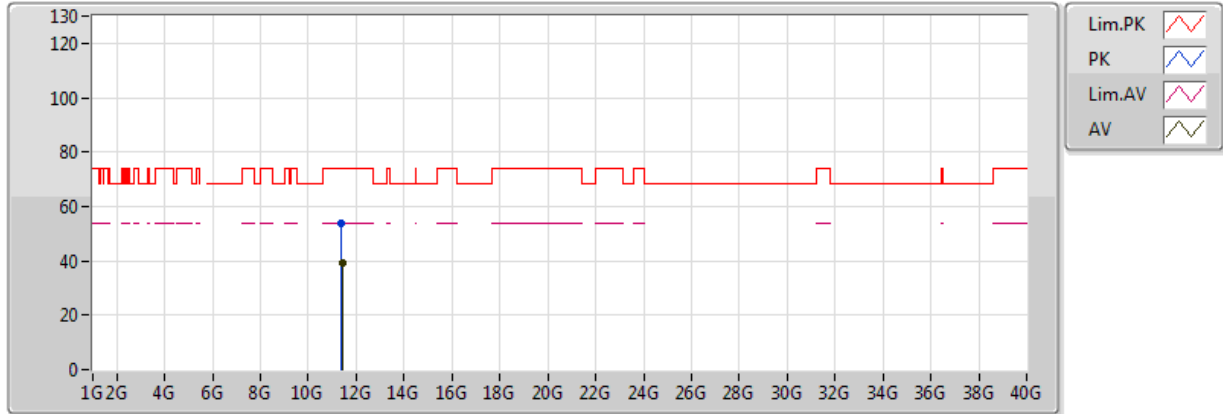


20170722
EUT_Y_4TX
Setting 81
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.40768G	39.42	54.00	-14.58	13.34	3	V	75	2.11	-
PK	11.39396G	54.07	74.00	-19.93	13.32	3	V	75	2.11	-

802.11a_(6Mbps)_4TX

5700MHz_TX

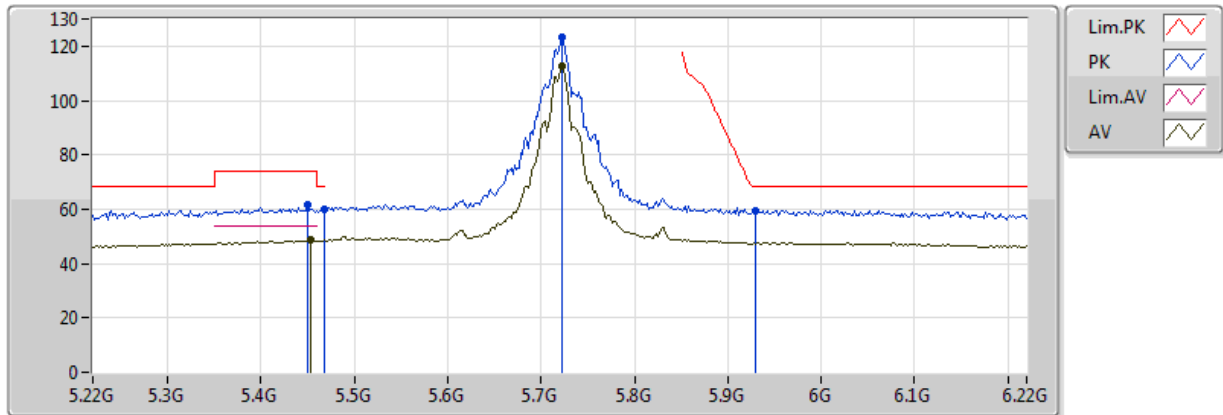


20170722
EUT_Y_4TX
Setting 81
03-M-1
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.40264G	39.48	54.00	-14.52	13.33	3	H	55	1.57	-
PK	11.39212G	53.78	74.00	-20.22	13.32	3	H	55	1.57	-

802.11a_(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz_TX

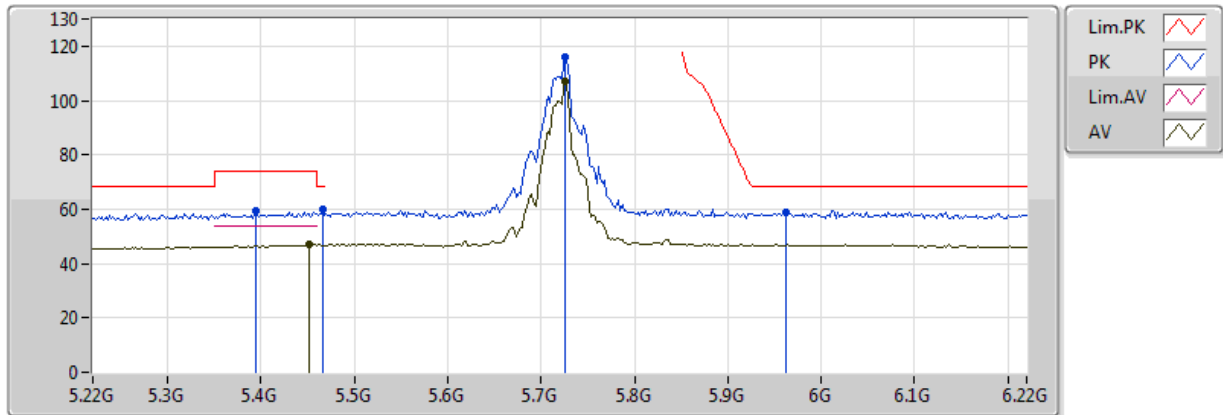


20170722
EUT_Y_4TX
Setting 100
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.454G	48.54	54.00	-5.46	6.05	3	V	354	1.50	-
AV	5.722G	112.53	Inf	-Inf	6.25	3	V	354	1.50	-
PK	5.45G	61.51	74.00	-12.49	6.03	3	V	354	1.50	-
PK	5.468G	60.12	68.20	-8.08	6.08	3	V	354	1.50	-
PK	5.722G	123.03	Inf	-Inf	6.25	3	V	354	1.50	-
PK	5.93G	59.44	68.20	-8.76	6.19	3	V	354	1.50	-

802.11a_(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz_TX

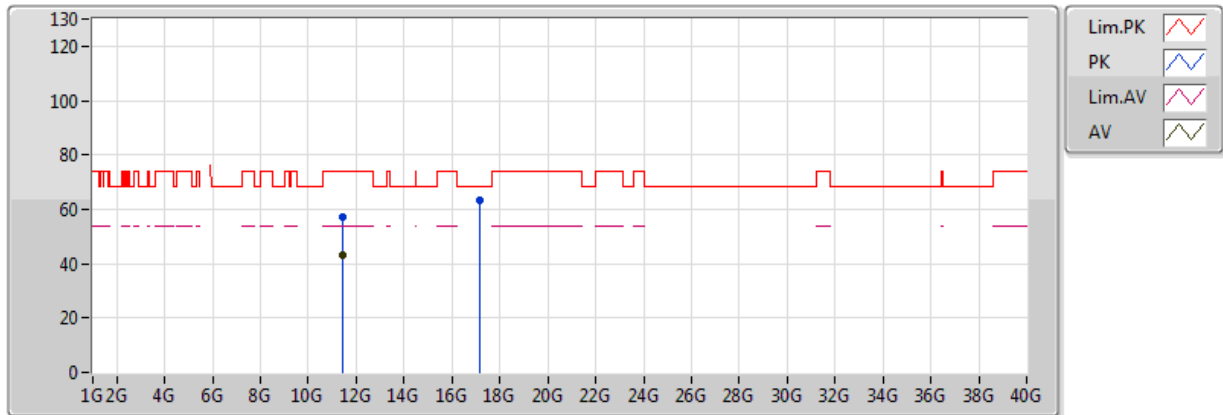


20170722
EUT_Y_4TX
Setting 100
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.452G	46.92	54.00	-7.08	6.04	3	H	52	2.03	-
AV	5.726G	106.77	Inf	-Inf	6.25	3	H	52	2.03	-
PK	5.394G	59.51	74.00	-14.49	5.90	3	H	52	2.03	-
PK	5.466G	60.08	68.20	-8.12	6.08	3	H	52	2.03	-
PK	5.726G	115.83	Inf	-Inf	6.25	3	H	52	2.03	-
PK	5.962G	58.72	68.20	-9.48	6.17	3	H	52	2.03	-

802.11a_(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz_TX

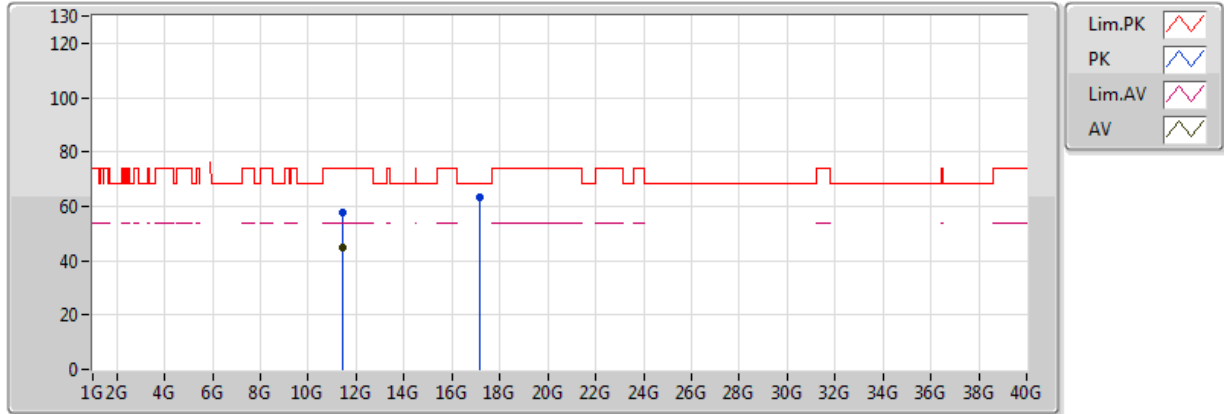


20170722
EUT_Y_4TX
Setting 100
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.4428G	43.28	54.00	-10.72	13.37	3	V	207	2.36	-
PK	11.44216G	57.16	74.00	-16.84	13.37	3	V	207	2.36	-
PK	17.15184G	63.21	68.20	-4.99	19.54	3	V	175	1.50	-

802.11a_(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz_TX

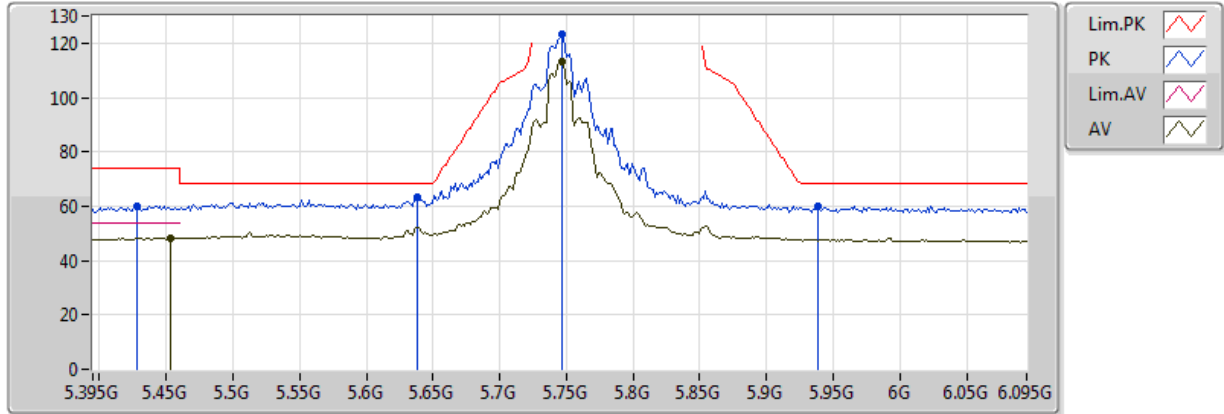


20170722
EUT_Y_4TX
Setting 100
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.4438G	44.55	54.00	-9.45	13.37	3	H	260	1.56	-
PK	11.44376G	57.83	74.00	-16.17	13.37	3	H	260	1.56	-
PK	17.15804G	63.34	68.20	-4.86	19.58	3	H	11	1.50	-

802.11a_(6Mbps)_4TX

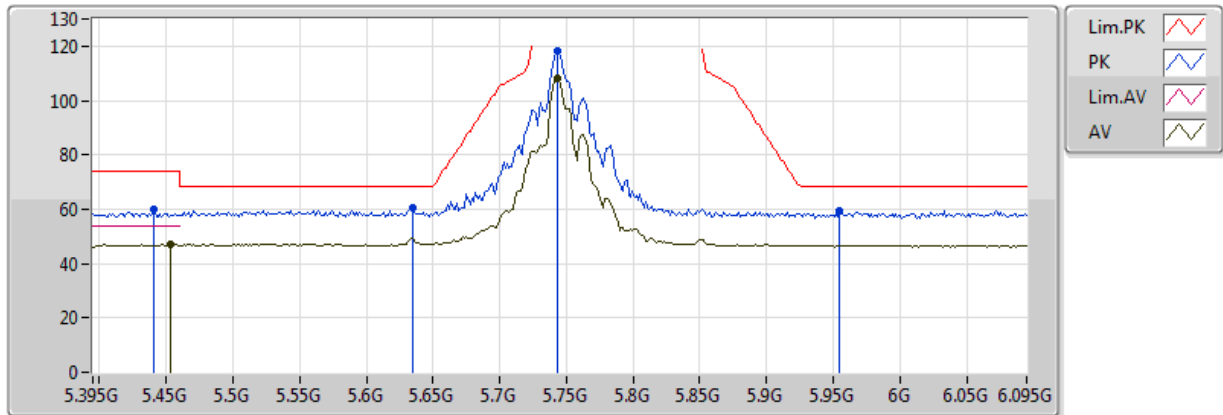
5745MHz_TX



Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.4538G	48.10	54.00	-5.90	6.04	3	V	350	1.60	-
AV	5.7464G	113.26	Inf	-Inf	6.25	3	V	350	1.60	-
PK	5.6386G	63.34	68.20	-4.86	6.24	3	V	350	1.60	-
PK	5.7464G	123.26	Inf	-Inf	6.25	3	V	350	1.60	-
PK	5.9382G	59.86	68.20	-8.34	6.18	3	V	350	1.60	-
PK	5.4286G	60.10	74.00	-13.90	5.98	3	V	350	1.60	-

802.11a_(6Mbps)_4TX

5745MHz_TX

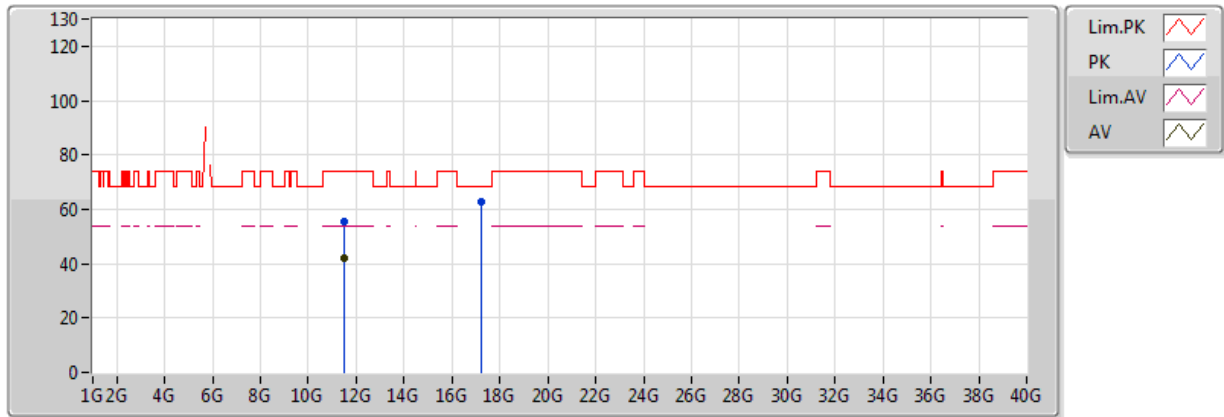


20170722
EUT_Y_4TX
Setting 100
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7436G	108.04	Inf	-Inf	6.25	3	H	56	1.00	-
PK	5.6344G	60.37	68.20	-7.83	6.24	3	H	56	1.00	-
PK	5.7436G	117.96	Inf	-Inf	6.25	3	H	56	1.00	-
PK	5.955G	59.13	68.20	-9.07	6.17	3	H	56	1.00	-
PK	5.4412G	59.78	74.00	-14.22	6.01	3	H	56	1.00	-
AV	5.4538G	46.88	54.00	-7.12	6.04	3	H	56	1.00	-

802.11a_(6Mbps)_4TX

5745MHz_TX

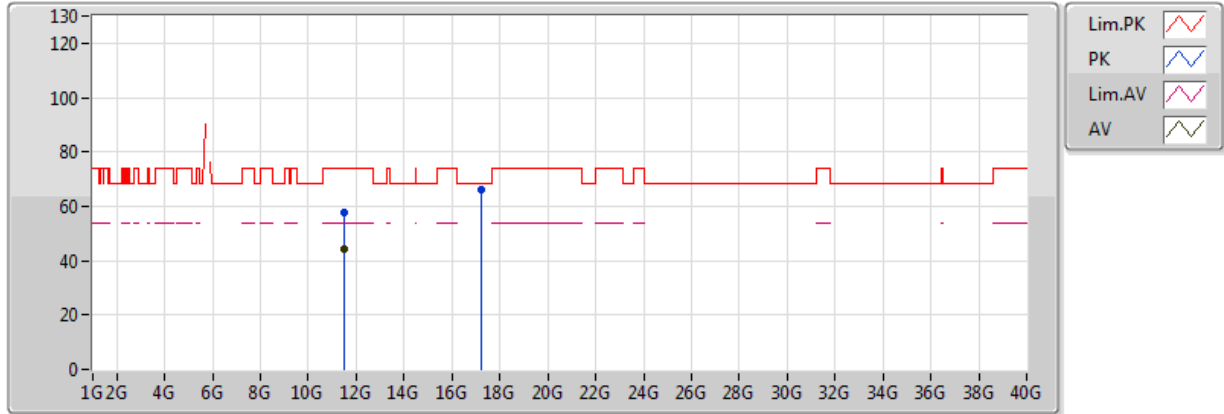


20170722
EUT_Y_4TX
Setting 100
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.49468G	42.01	54.00	-11.99	13.42	3	V	195	2.56	-
PK	11.49496G	55.53	74.00	-18.47	13.42	3	V	195	2.56	-
PK	17.23652G	63.02	68.20	-5.18	20.01	3	V	191	2.47	-

802.11a_(6Mbps)_4TX

5745MHz_TX

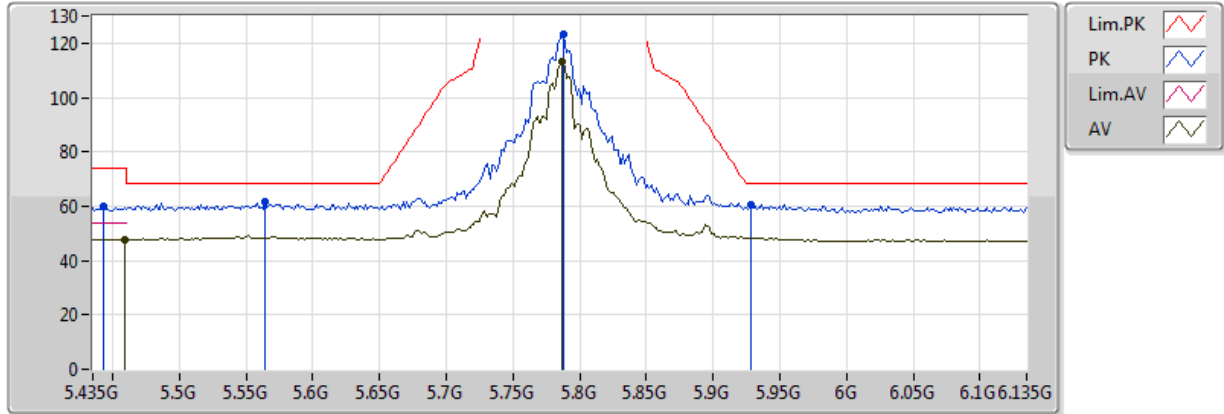


20170722
EUT_Y_4TX
Setting 100
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.49492G	44.50	54.00	-9.50	13.42	3	H	261	1.49	-
PK	11.49584G	57.86	74.00	-16.14	13.43	3	H	261	1.49	-
PK	17.23612G	66.00	68.20	-2.20	20.01	3	H	191	2.51	-

802.11a_(6Mbps)_4TX

5785MHz_TX

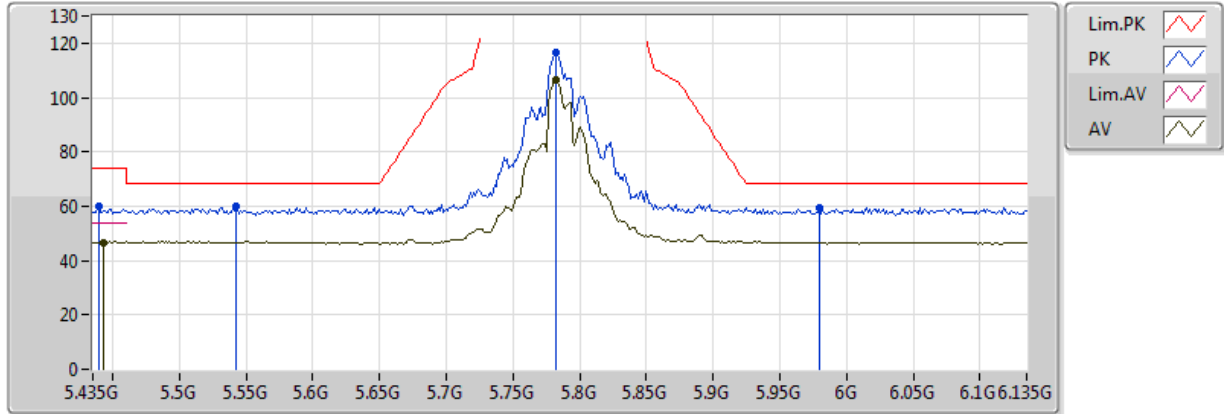


20170722
EUT_Y_4TX
Setting 100
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7864G	113.36	Inf	-Inf	6.25	3	V	33	1.47	-
PK	5.5638G	61.68	68.20	-6.52	6.21	3	V	33	1.47	-
PK	5.7878G	123.20	Inf	-Inf	6.25	3	V	33	1.47	-
PK	5.9278G	60.74	68.20	-7.46	6.19	3	V	33	1.47	-
PK	5.4434G	60.09	74.00	-13.91	6.02	3	V	33	1.47	-
AV	5.4588G	47.89	54.00	-6.11	6.06	3	V	33	1.47	-

802.11a_(6Mbps)_4TX

5785MHz_TX

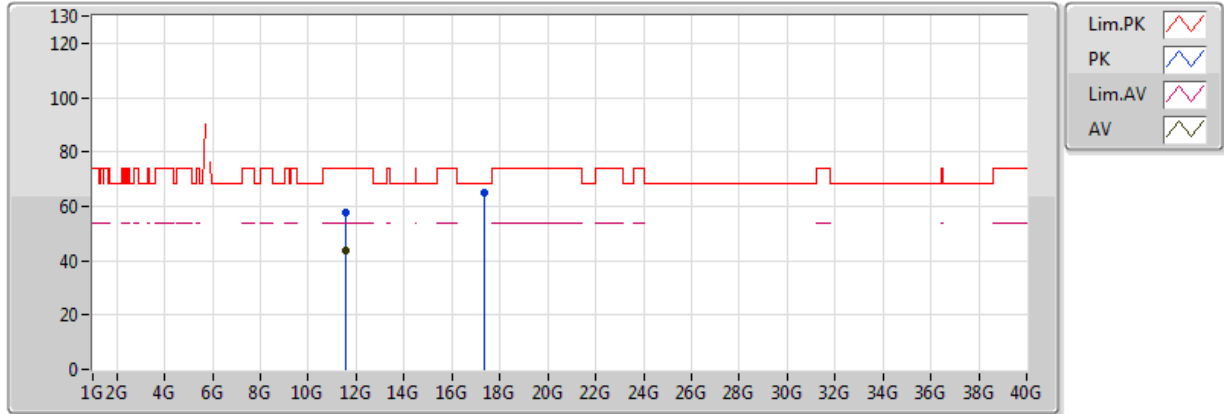


20170722
EUT_Y_4TX
Setting 100
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7822G	106.69	Inf	-Inf	6.25	3	H	50	1.07	-
PK	5.5428G	59.70	68.20	-8.50	6.19	3	H	50	1.07	-
PK	5.7822G	116.42	Inf	-Inf	6.25	3	H	50	1.07	-
PK	5.9796G	59.61	68.20	-8.59	6.16	3	H	50	1.07	-
PK	5.4392G	59.95	74.00	-14.05	6.01	3	H	50	1.07	-
AV	5.4434G	46.64	54.00	-7.36	6.02	3	H	50	1.07	-

802.11a_(6Mbps)_4TX

5785MHz_TX

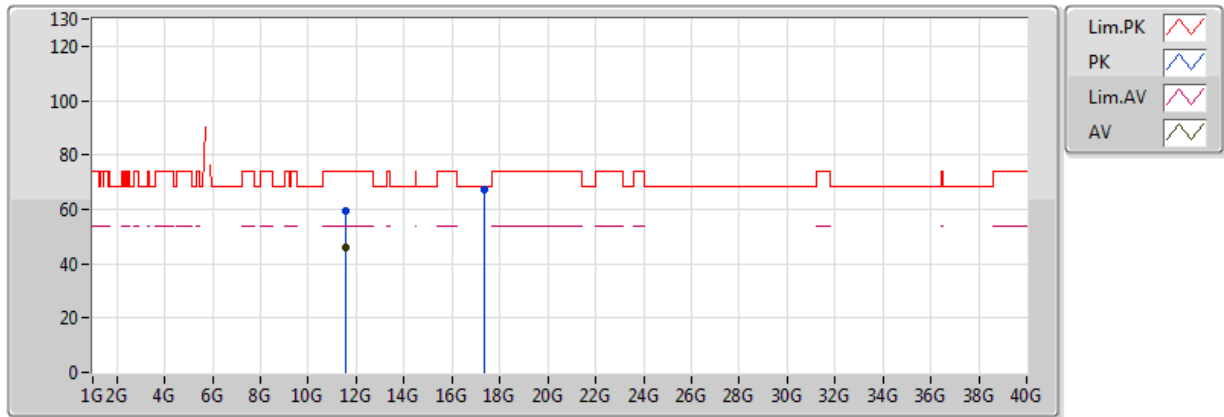


20170722
EUT_Y_4TX
Setting 100
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57472G	43.97	54.00	-10.03	13.51	3	V	194	2.47	-
PK	11.57516G	57.77	74.00	-16.23	13.51	3	V	194	2.47	-
PK	17.36072G	65.23	68.20	-2.97	20.71	3	V	183	2.46	-

802.11a_(6Mbps)_4TX

5785MHz_TX

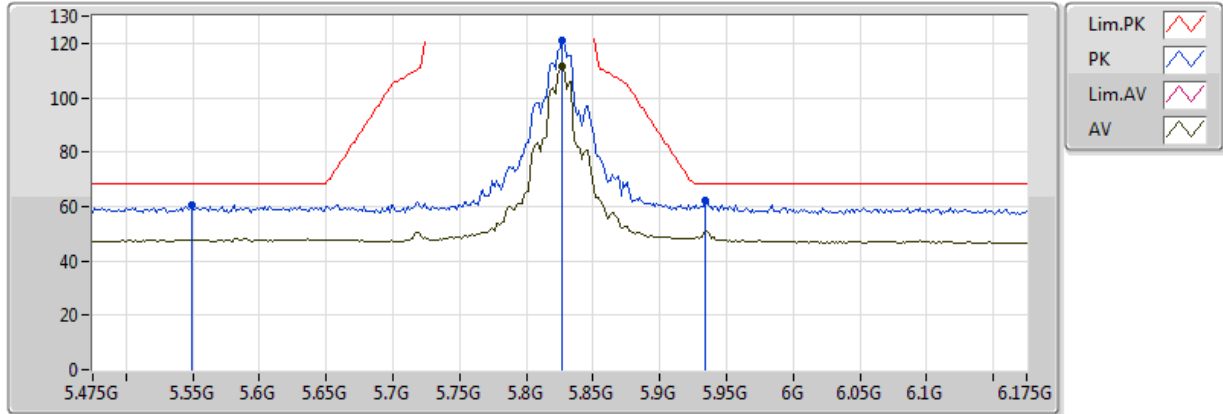


20170722
EUT_Y_4TX
Setting 100
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57476G	46.11	54.00	-7.89	13.51	3	H	230	1.63	-
PK	11.574G	59.31	74.00	-14.69	13.51	3	H	230	1.63	-
PK	17.35868G	67.01	68.20	-1.19	20.70	3	H	181	2.95	-

802.11a_(6Mbps)_4TX

5825MHz_TX

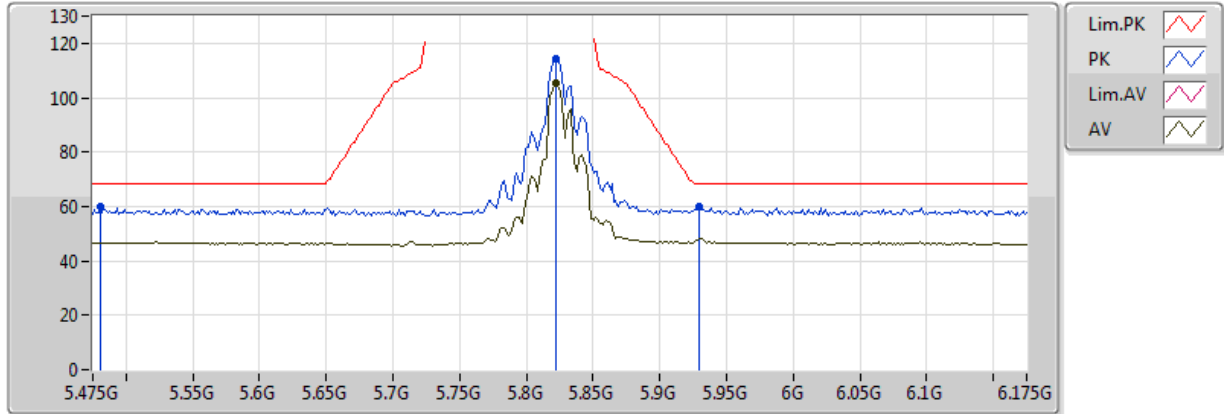


20170722
EUT_Y_4TX
Setting 94
03-P-2-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.8264G	111.40	Inf	-Inf	6.24	3	V	129	2.22	-
PK	5.5492G	60.70	68.20	-7.50	6.20	3	V	77	1.87	-
PK	5.8264G	120.85	Inf	-Inf	6.24	3	V	129	2.22	-
PK	5.9342G	62.30	68.20	-5.90	6.18	3	V	117	2.18	-

802.11a_(6Mbps)_4TX

5825MHz_TX

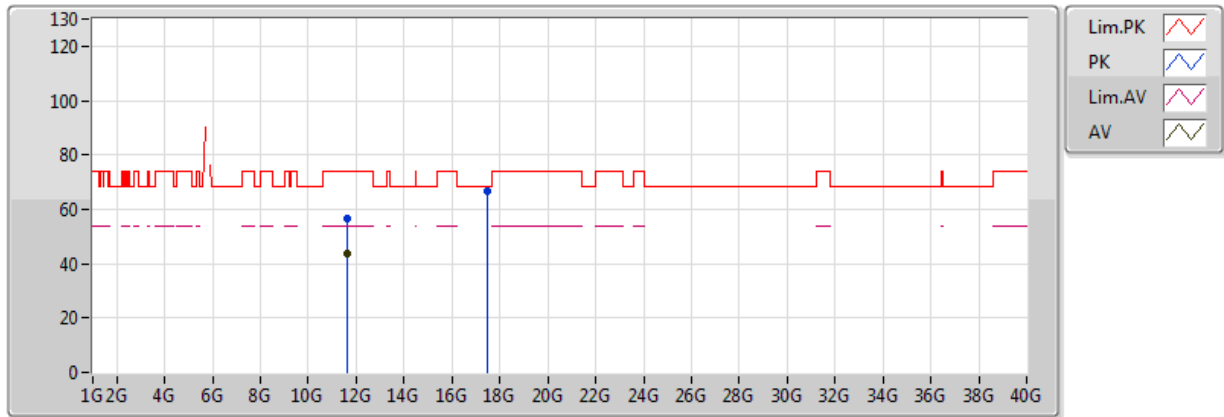


20170722
EUT_Y_4TX
Setting 94
03-P-2-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.8222G	105.09	Inf	-Inf	6.24	3	H	163	2.28	-
PK	5.4806G	59.69	68.20	-8.51	6.11	3	H	158	1.07	-
PK	5.8222G	114.48	Inf	-Inf	6.24	3	H	163	2.28	-
PK	5.93G	59.75	68.20	-8.45	6.19	3	H	317	2.13	-

802.11a_(6Mbps)_4TX

5825MHz_TX

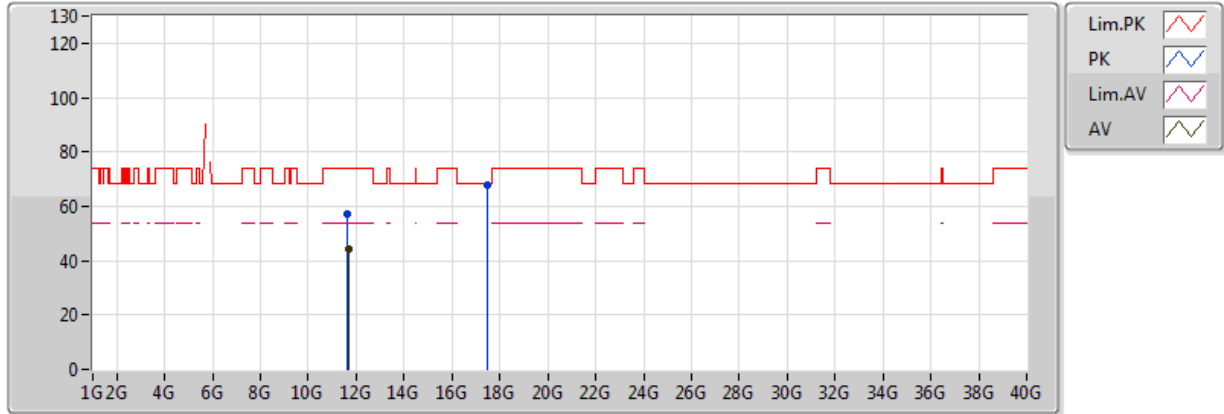


20170722
EUT_Y_4TX
Setting 94
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.6544G	43.63	54.00	-10.37	13.59	3	V	198	2.23	-
PK	11.65616G	56.53	74.00	-17.47	13.59	3	V	198	2.23	-
PK	17.4708G	66.77	68.20	-1.43	21.33	3	V	175	2.91	-

802.11a_(6Mbps)_4TX

5825MHz_TX

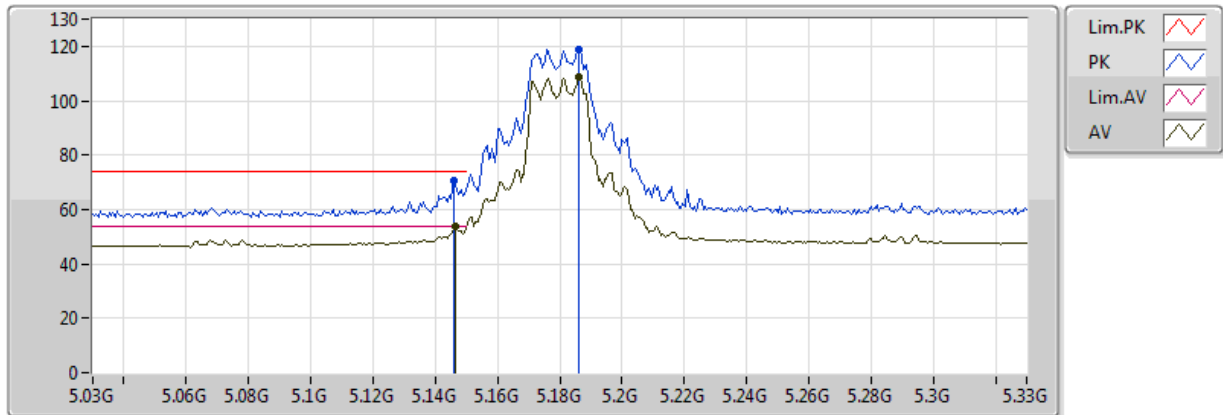


20170722
EUT_Y_4TX
Setting 94
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.65676G	44.34	54.00	-9.66	13.59	3	H	320	1.41	-
PK	11.65652G	56.98	74.00	-17.02	13.59	3	H	320	1.41	-
PK	17.4788G	67.99	68.20	-0.21	21.37	3	H	337	1.18	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5180MHz_TX

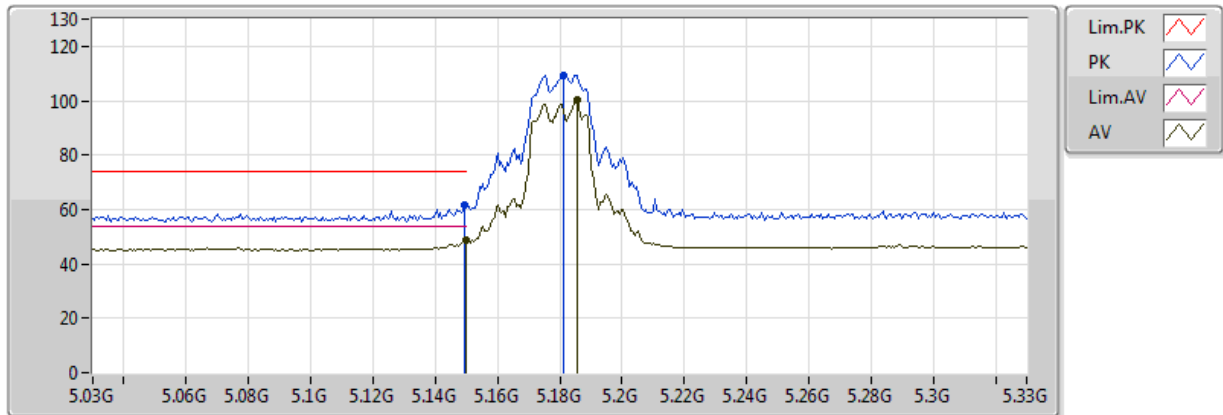


20170722
EUT_Y_4TX
Setting 80
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1464G	53.55	54.00	-0.45	5.44	3	V	0	1.50	-
AV	5.186G	108.56	Inf	-Inf	5.52	3	V	0	1.50	-
PK	5.1458G	70.59	74.00	-3.41	5.44	3	V	0	1.50	-
PK	5.186G	119.07	Inf	-Inf	5.52	3	V	0	1.50	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5180MHz_TX

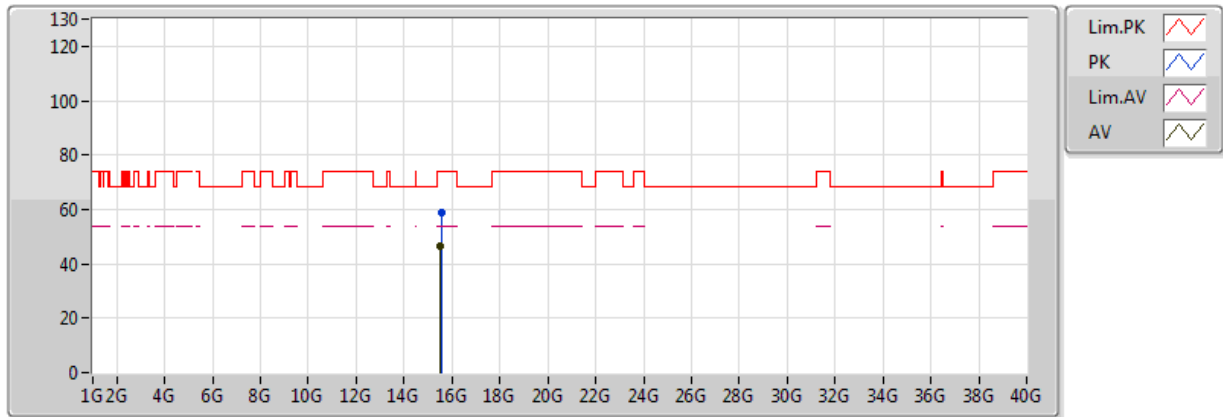


20170722
EUT_Y_4TX
Setting 80
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	48.74	54.00	-5.26	5.44	3	H	88	1.46	-
AV	5.1854G	100.09	Inf	-Inf	5.52	3	H	88	1.46	-
PK	5.1494G	61.36	74.00	-12.64	5.44	3	H	88	1.46	-
PK	5.1812G	109.41	Inf	-Inf	5.51	3	H	88	1.46	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5180MHz_TX

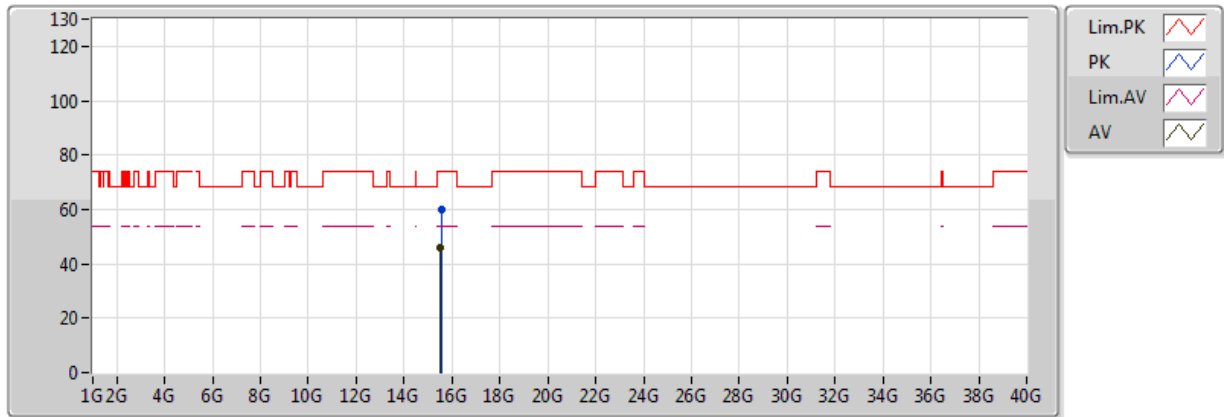


20170722
EUT_Y_4TX
Setting 80
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.53392G	46.24	54.00	-7.76	16.32	3	V	337	1.61	-
PK	15.5408G	59.08	74.00	-14.92	16.30	3	V	337	1.61	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5180MHz_TX

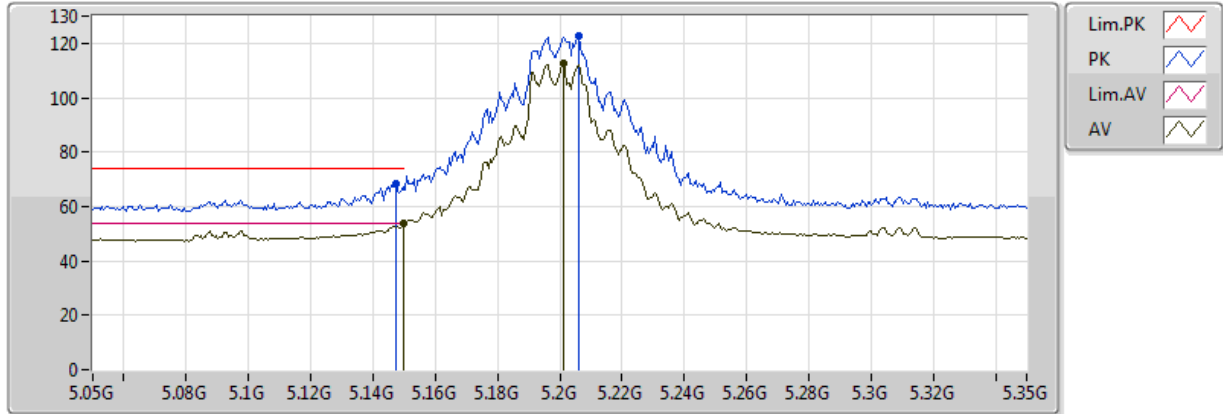


20170722
EUT_Y_4TX
Setting 80
03-M-1
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.531G	46.10	54.00	-7.90	16.33	3	H	102	2.18	-
PK	15.54716G	59.82	74.00	-14.18	16.28	3	H	102	2.18	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5200MHz_TX

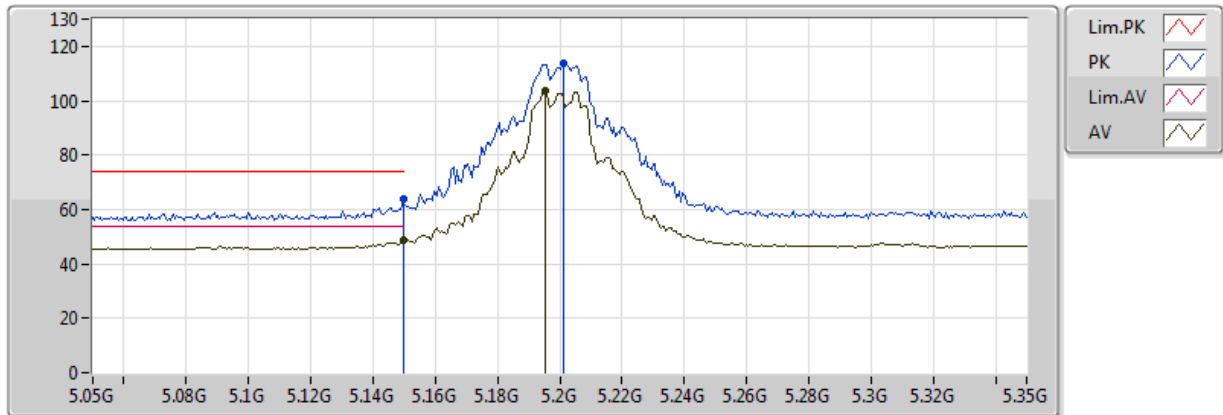


20170722
EUT_Y_4TX
Setting 95
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	53.90	54.00	-0.10	5.44	3	V	359	1.90	-
AV	5.2012G	112.39	Inf	-Inf	5.55	3	V	359	1.90	-
PK	5.1472G	68.23	74.00	-5.77	5.44	3	V	359	1.90	-
PK	5.206G	122.56	Inf	-Inf	5.56	3	V	359	1.90	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5200MHz_TX

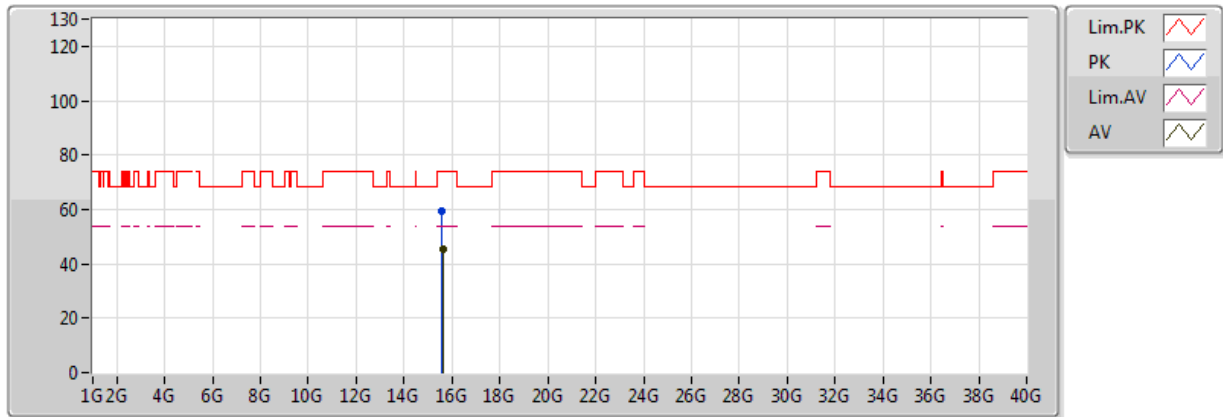


20170722
EUT_Y_4TX
Setting 95
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	48.63	54.00	-5.37	5.44	3	H	46	1.34	-
AV	5.1952G	103.53	Inf	-Inf	5.54	3	H	46	1.34	-
PK	5.1496G	63.75	74.00	-10.25	5.44	3	H	46	1.34	-
PK	5.2012G	113.75	Inf	-Inf	5.55	3	H	46	1.34	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5200MHz_TX

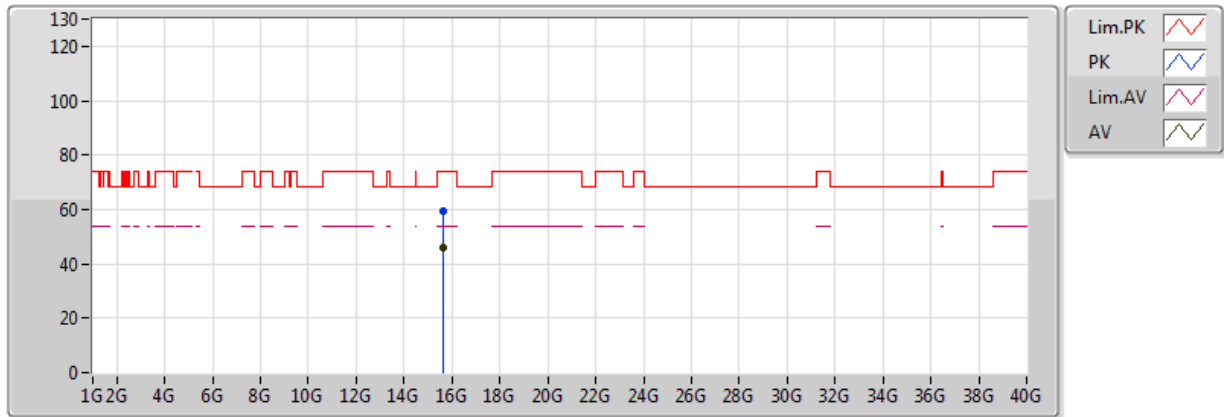


20170722
EUT_Y_4TX
Setting 95
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.60452G	45.50	54.00	-8.50	16.10	3	V	194	1.96	-
PK	15.59536G	59.56	74.00	-14.44	16.13	3	V	194	1.96	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5200MHz_TX

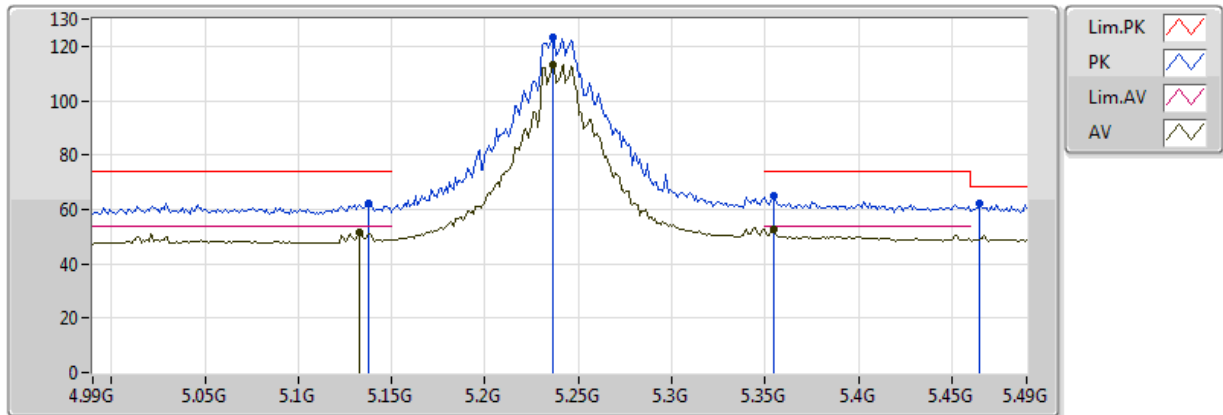


20170722
EUT_Y_4TX
Setting 95
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.603G	45.82	54.00	-8.18	16.10	3	H	227	1.33	-
PK	15.602G	59.51	74.00	-14.49	16.10	3	H	227	1.33	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5240MHz_TX

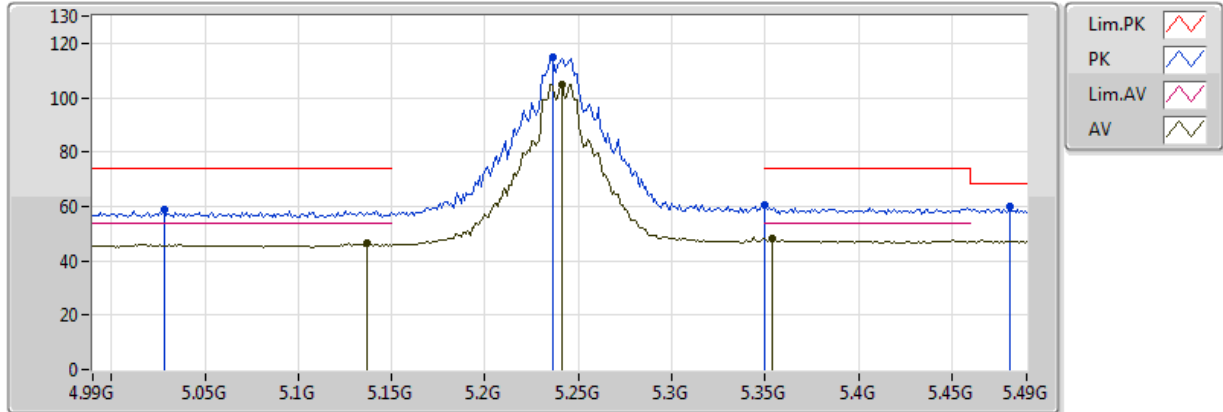


20170722
EUT_Y_4TX
Setting 100
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.133G	51.42	54.00	-2.58	5.41	3	V	0	1.47	-
AV	5.236G	113.26	Inf	-Inf	5.62	3	V	0	1.47	-
AV	5.355G	52.88	54.00	-1.12	5.83	3	V	0	1.47	-
PK	5.138G	62.17	74.00	-11.83	5.42	3	V	0	1.47	-
PK	5.236G	123.12	Inf	-Inf	5.62	3	V	0	1.47	-
PK	5.465G	62.37	68.20	-5.83	6.07	3	V	0	1.47	-
PK	5.355G	65.04	74.00	-8.96	5.83	3	V	0	1.47	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5240MHz_TX

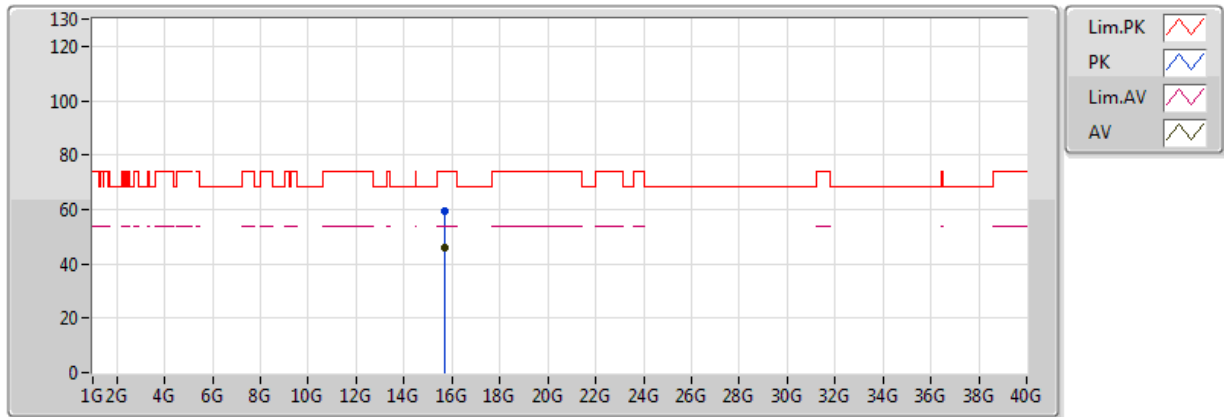


20170722
EUT_Y_4TX
Setting 100
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.137G	46.27	54.00	-7.73	5.42	3	H	87	1.33	-
AV	5.241G	104.79	Inf	-Inf	5.63	3	H	87	1.33	-
AV	5.354G	48.46	54.00	-5.54	5.83	3	H	87	1.33	-
PK	5.028G	58.66	74.00	-15.34	5.16	3	H	87	1.33	-
PK	5.236G	114.81	Inf	-Inf	5.62	3	H	87	1.33	-
PK	5.481G	59.70	68.20	-8.50	6.11	3	H	87	1.33	-
PK	5.350005G	60.38	74.00	-13.62	5.83	3	H	87	1.33	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5240MHz_TX

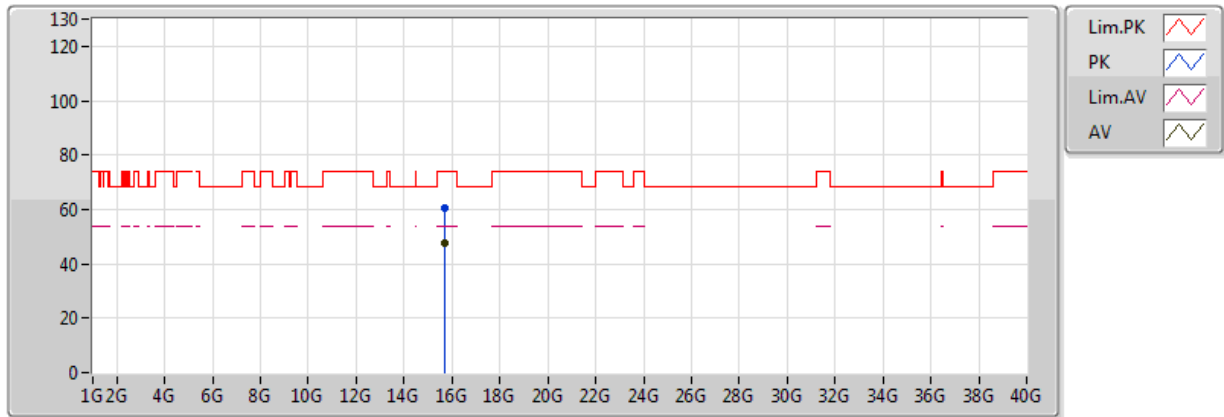


20170722
EUT_Y_4TX
Setting 100
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.71652G	46.08	54.00	-7.92	15.73	3	V	303	2.11	-
PK	15.727G	59.35	74.00	-14.65	15.70	3	V	303	2.11	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5240MHz_TX

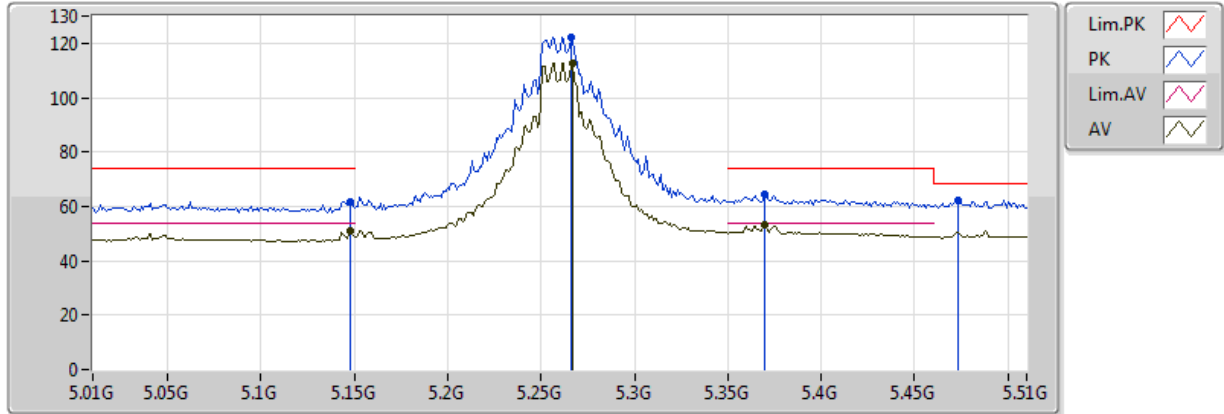


20170722
EUT_Y_4TX
Setting 100
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.71832G	47.44	54.00	-6.56	15.73	3	H	219	1.86	-
PK	15.72048G	60.75	74.00	-13.25	15.72	3	H	219	1.86	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5260MHz_TX

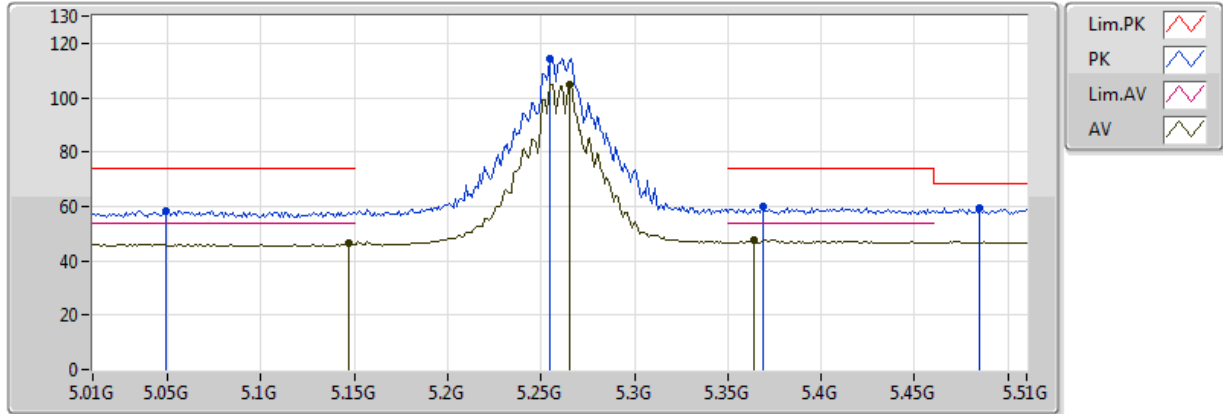


20170722
EUT Y_4TX
Setting 100
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.148G	50.86	54.00	-3.14	5.44	3	V	0	1.36	-
AV	5.267G	112.83	Inf	-Inf	5.68	3	V	0	1.36	-
AV	5.37G	53.02	54.00	-0.98	5.86	3	V	0	1.36	-
PK	5.148G	61.81	74.00	-12.19	5.44	3	V	0	1.36	-
PK	5.266G	122.35	Inf	-Inf	5.68	3	V	0	1.36	-
PK	5.473G	61.98	68.20	-6.22	6.09	3	V	0	1.36	-
PK	5.37G	64.36	74.00	-9.64	5.86	3	V	0	1.36	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5260MHz_TX

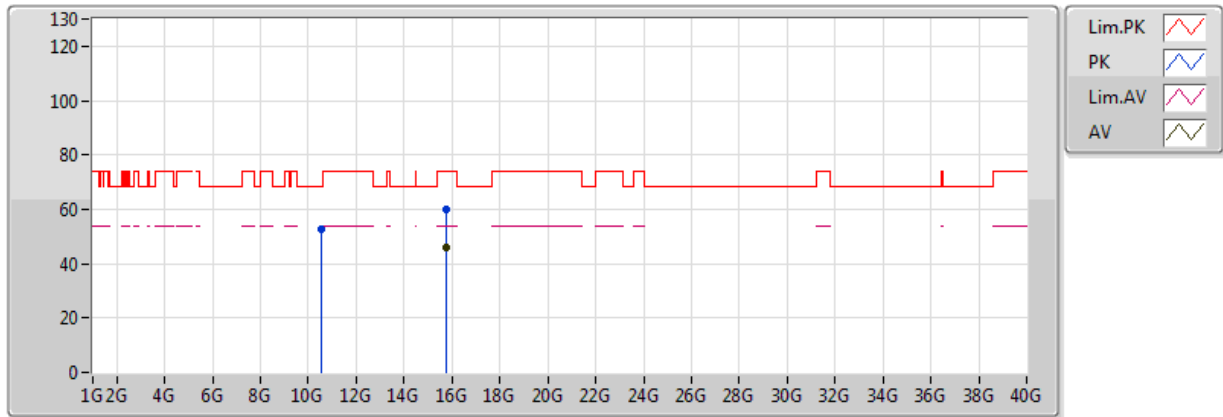


20170722
EUT Y_4TX
Setting 100
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.147G	46.75	54.00	-7.25	5.44	3	H	45	1.00	-
AV	5.265G	105.02	Inf	-Inf	5.67	3	H	45	1.00	-
AV	5.364G	47.85	54.00	-6.15	5.85	3	H	45	1.00	-
PK	5.049G	58.31	74.00	-15.69	5.21	3	H	45	1.00	-
PK	5.255G	114.52	Inf	-Inf	5.65	3	H	45	1.00	-
PK	5.485G	59.50	68.20	-8.70	6.12	3	H	45	1.00	-
PK	5.369G	59.85	74.00	-14.15	5.86	3	H	45	1.00	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5260MHz_TX

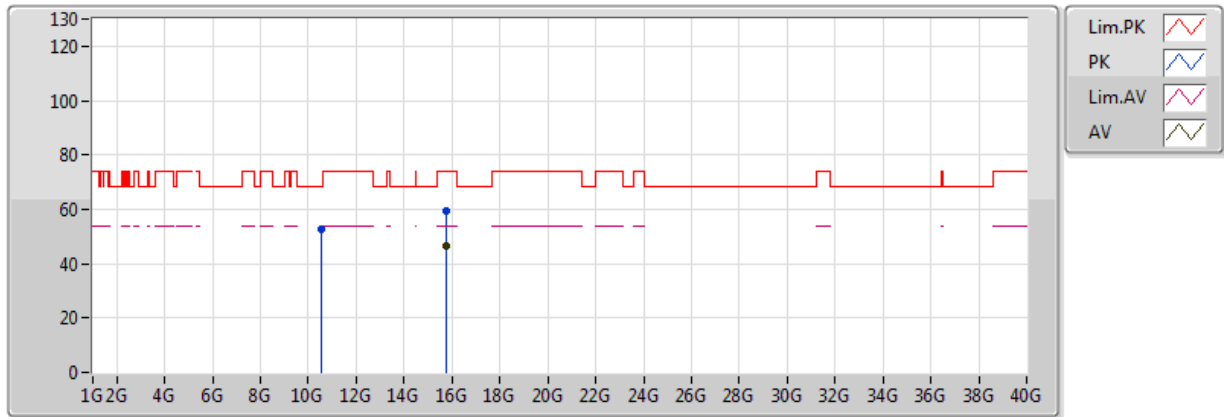


20170722
EUT_Y_4TX
Setting 100
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.7874G	46.20	54.00	-7.80	15.50	3	V	236	2.39	-
PK	10.52516G	52.49	68.20	-15.71	12.47	3	V	66	2.27	-
PK	15.7752G	59.96	74.00	-14.04	15.54	3	V	236	2.39	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5260MHz_TX

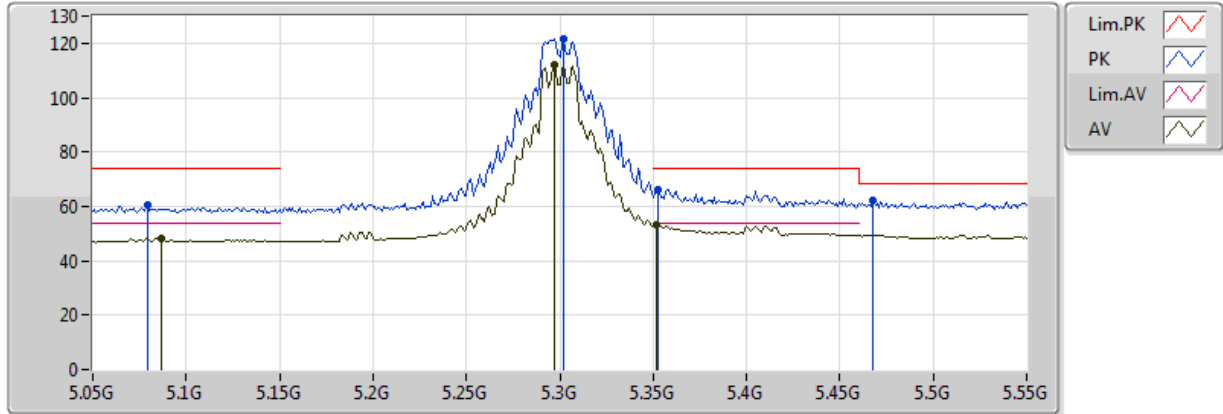


20170722
EUT_Y_4TX
Setting 100
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.7898G	46.28	54.00	-7.72	15.49	3	H	96	1.31	-
PK	10.5204G	52.49	68.20	-15.71	12.47	3	H	117	2.00	-
PK	15.78676G	59.34	74.00	-14.66	15.50	3	H	96	1.31	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5300MHz_TX

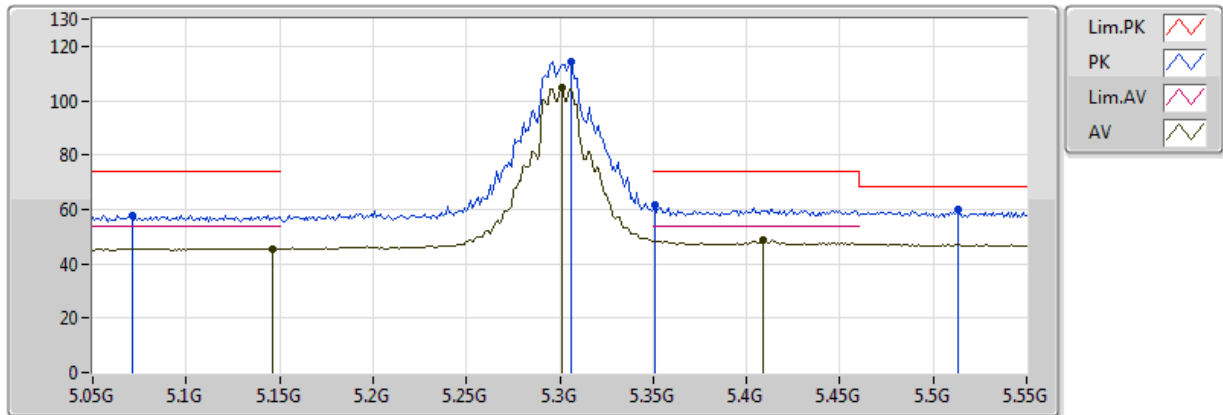


20170722
EUT_Y_4TX
Setting 95
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.087G	48.29	54.00	-5.71	5.31	3	V	336	1.14	-
AV	5.297G	111.82	Inf	-Inf	5.73	3	V	336	1.14	-
AV	5.352G	53.45	54.00	-0.55	5.83	3	V	336	1.14	-
PK	5.079G	60.79	74.00	-13.21	5.29	3	V	336	1.14	-
PK	5.302G	121.43	Inf	-Inf	5.74	3	V	336	1.14	-
PK	5.468G	62.03	68.20	-6.17	6.08	3	V	336	1.14	-
PK	5.353G	66.32	74.00	-7.68	5.83	3	V	336	1.14	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5300MHz_TX

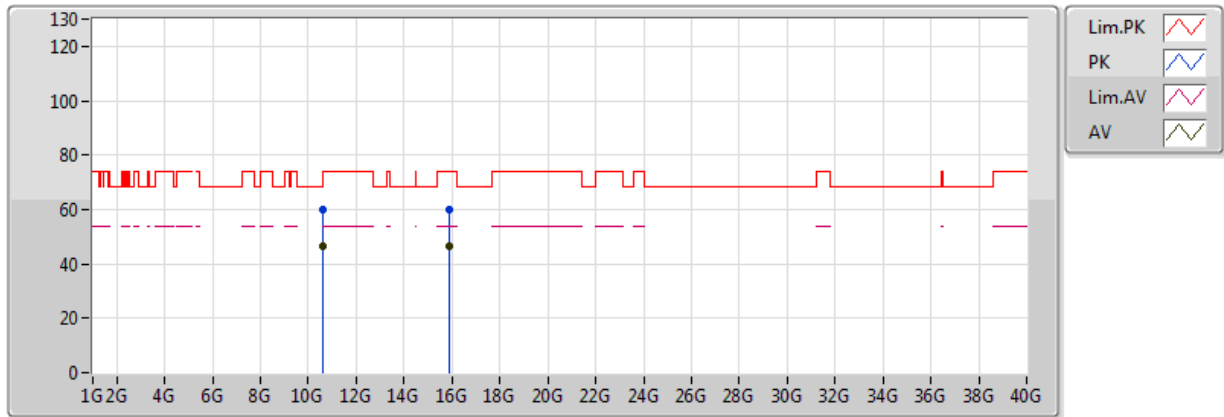


20170722
EUT_Y_4TX
Setting 95
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.146G	45.64	54.00	-8.36	5.44	3	H	87	1.38	-
AV	5.301G	104.56	Inf	-Inf	5.74	3	H	87	1.38	-
AV	5.409G	48.80	54.00	-5.20	5.93	3	H	87	1.38	-
PK	5.071G	57.78	74.00	-16.22	5.27	3	H	87	1.38	-
PK	5.306G	114.58	Inf	-Inf	5.75	3	H	87	1.38	-
PK	5.513G	59.81	68.20	-8.39	6.17	3	H	87	1.38	-
PK	5.351G	61.39	74.00	-12.61	5.83	3	H	87	1.38	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5300MHz_TX

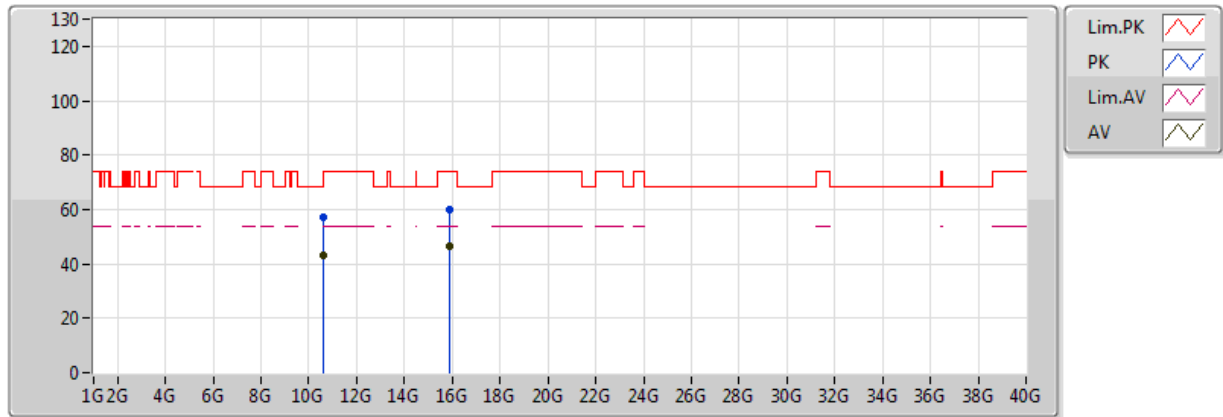


20170722
EUT_Y_4TX
Setting 95
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.6023G	46.72	54.00	-7.28	12.55	3	V	30	1.42	-
AV	15.9094G	46.64	54.00	-7.36	15.10	3	V	254	2.39	-
PK	10.6025G	59.71	74.00	-14.29	12.55	3	V	30	1.42	-
PK	15.90836G	59.71	74.00	-14.29	15.11	3	V	254	2.39	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5300MHz_TX

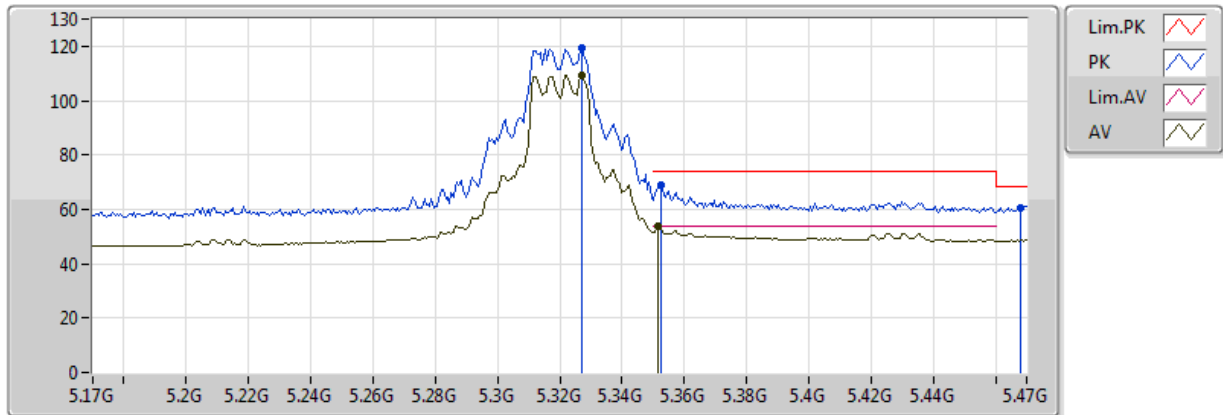


20170722
EUT_Y_4TX
Setting 95
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.60295G	43.27	54.00	-10.73	12.55	3	H	123	2.31	-
AV	15.90016G	46.68	54.00	-7.32	15.13	3	H	74	2.39	-
PK	10.60364G	57.10	74.00	-16.90	12.55	3	H	123	2.31	-
PK	15.90832G	59.71	74.00	-14.29	15.11	3	H	74	2.39	-

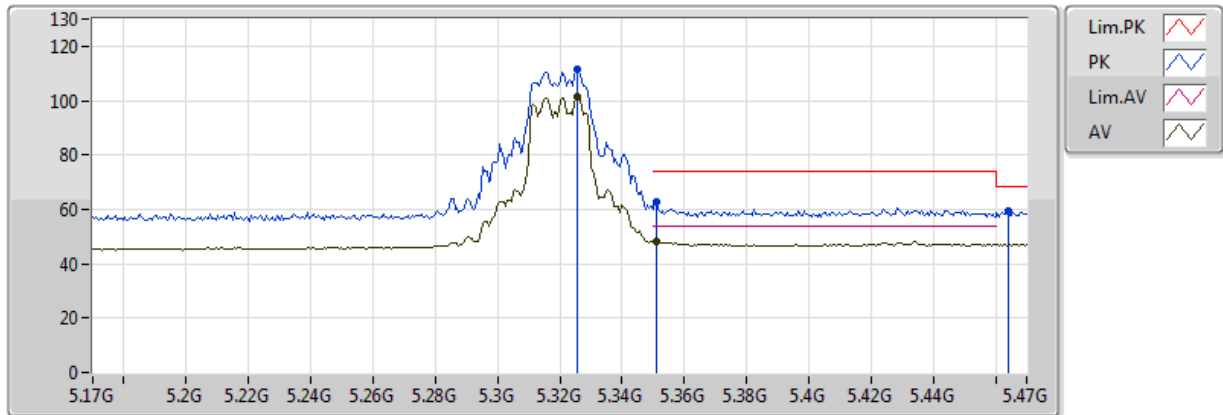
802.11ac VHT20_Nss1,(MCS0)_4TX

5320MHz_TX



802.11ac VHT20_Nss1,(MCS0)_4TX

5320MHz_TX

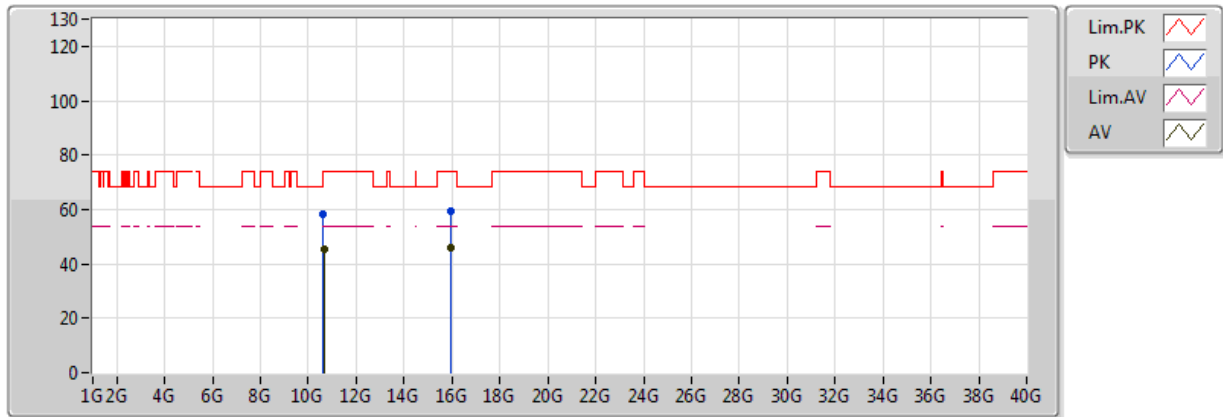


20170722
EUT_Y_4TX
Setting 80
03-M-1-10
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.3254G	101.34	Inf	-Inf	5.78	3	H	87	1.36	-
AV	5.3512G	48.32	54.00	-5.68	5.83	3	H	87	1.36	-
PK	5.3254G	111.64	Inf	-Inf	5.78	3	H	87	1.36	-
PK	5.464G	59.32	68.20	-8.88	6.07	3	H	87	1.36	-
PK	5.3512G	62.86	74.00	-11.14	5.83	3	H	87	1.36	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5320MHz_TX

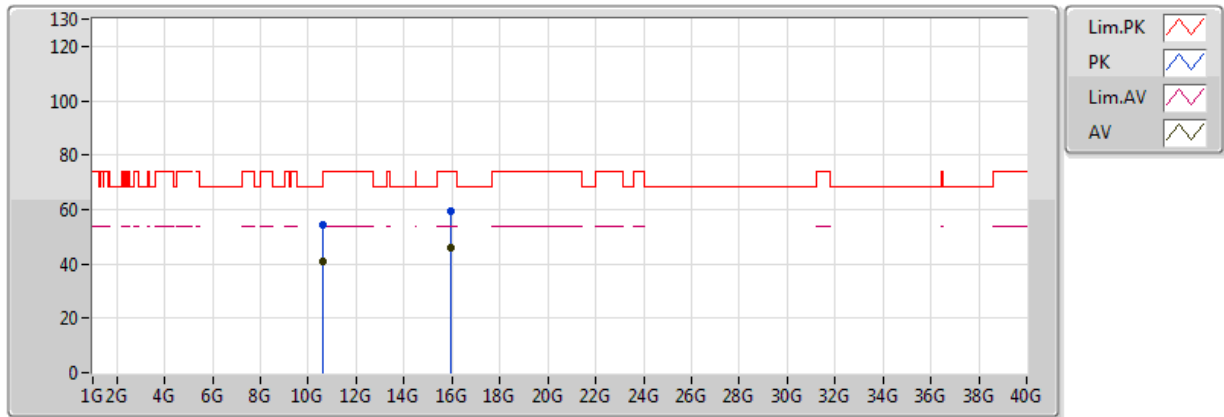


20170722
EUT_Y_4TX
Setting 80
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.64084G	45.24	54.00	-8.76	12.58	3	V	167	1.28	-
AV	15.95596G	45.91	54.00	-8.09	14.95	3	V	331	1.91	-
PK	10.63568G	58.30	74.00	-15.70	12.58	3	V	167	1.28	-
PK	15.96744G	59.20	74.00	-14.80	14.92	3	V	331	1.91	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5320MHz_TX

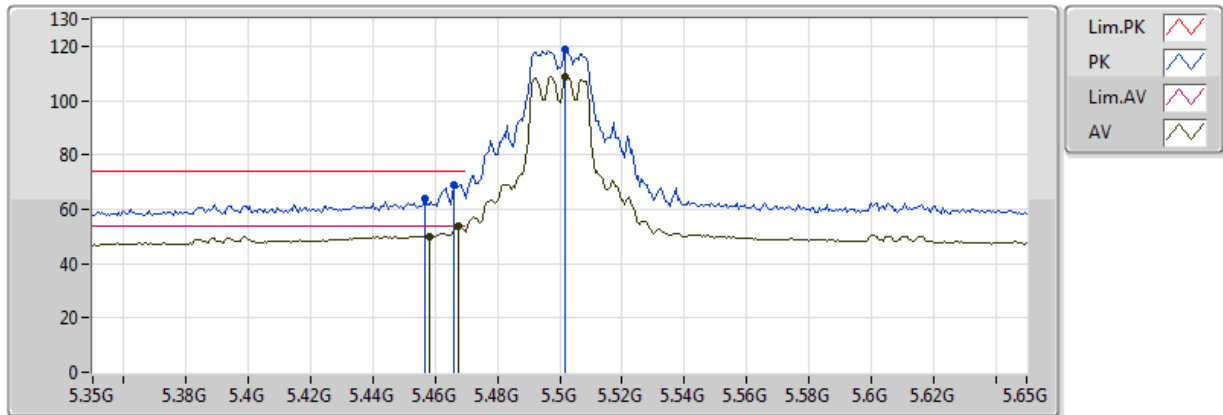


20170722
EUT_Y_4TX
Setting 80
03-P-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.63284G	40.85	54.00	-13.15	12.57	3	H	195	1.16	-
AV	15.95752G	45.87	54.00	-8.13	14.95	3	H	217	1.50	-
PK	10.63308G	54.24	74.00	-19.76	12.58	3	H	195	1.16	-
PK	15.95772G	59.20	74.00	-14.80	14.95	3	H	217	1.50	-

802.11ac VHT20_Nss1,(MCS0)_4TX

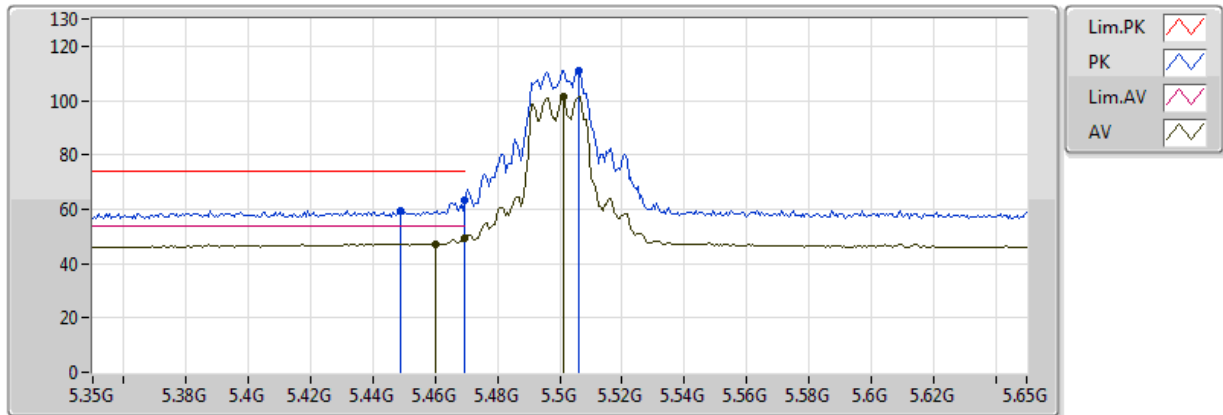
5500MHz_TX



Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.458G	50.09	54.00	-3.91	6.05	3	V	315	1.04	-
AV	5.4676G	53.52	54.00	-0.48	6.08	3	V	315	1.04	-
AV	5.5018G	108.69	Inf	-Inf	6.16	3	V	315	1.04	-
PK	5.4568G	63.95	74.00	-10.05	6.05	3	V	315	1.04	-
PK	5.4658G	68.70	74.00	-5.30	6.07	3	V	315	1.04	-
PK	5.5018G	118.65	Inf	-Inf	6.16	3	V	315	1.04	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5500MHz_TX



Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.459995G	47.28	54.00	-6.72	6.06	3	H	92	1.45	-
AV	5.4694G	49.15	54.00	-4.85	6.08	3	H	92	1.45	-
AV	5.5012G	101.66	Inf	-Inf	6.16	3	H	92	1.45	-
PK	5.449G	59.57	74.00	-14.43	6.03	3	H	92	1.45	-
PK	5.4694G	63.36	74.00	-10.64	6.08	3	H	92	1.45	-
PK	5.506G	111.15	Inf	-Inf	6.16	3	H	92	1.45	-