



FCC RADIO TEST REPORT

FCC ID : MSQ-RTAXHY00
Equipment : Wireless-AX1800 Dual Band WiFi 6 Router
Brand Name : ASUS
Model Name : RT-AX56U
Applicant : ASUSTeK COMPUTER INC.
4F, No. 150, Li-Te Rd., Peitou, Taipei 112, Taiwan
Manufacturer : ARCADYAN TECHNOLOGY (VIETNAM) CO., LTD.
Ba Thien Industrial Park, Ba Hien commune, Binh Xuyen district, Vinh Phuc Province
Standard : 47 CFR FCC Part 15.407

The product was received on Jun. 17, 2019, and testing was started from Jun. 18, 2019 and completed on Aug. 14, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB Ver1.0



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Conducted Output Power	PASS	-
3.4	15.407(a)	Peak Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

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

Comments and Explanations:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Cindy Peng



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), ax (HEW20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.15-5.25GHz	802.11n HT20	20	2TX
5.15-5.25GHz	802.11n HT20-BF	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT20-BF	20	2TX
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW20-BF	20	2TX
5.15-5.25GHz	802.11n HT40	40	2TX
5.15-5.25GHz	802.11n HT40-BF	40	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT40-BF	40	2TX
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW40-BF	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ac VHT80-BF	80	2TX
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.15-5.25GHz	802.11ax HEW80-BF	80	2TX
5.725-5.85GHz	802.11a	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11n HT20-BF	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11ac VHT20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11n HT40	40	2TX
5.725-5.85GHz	802.11n HT40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40-BF	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX

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, 1024QAM modulation.
- ♦ HEW20, HEW40 and HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 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

Set	Ant.	Port	Brand	Model Name	Type	Connector	Gain (dBi)	
							2.4GHz	5GHz
1	1	1	Walsin	RFDPA181314IMLB901	Dipole	I-PEX	1.93	1.97
	2	2	Walsin	RFDPA181317IMLB901	Dipole	I-PEX	1.96	1.98
2	1	1	Walsin	RFDPA181314IMLB902	Dipole	I-PEX	1.86	1.91
	2	2	Walsin	RFDPA181317IMLB902	Dipole	I-PEX	1.72	1.94
3	1	1	Whayu	C660-510476-A	Dipole	I-PEX	1.91	1.90
	2	2	Whayu	C660-510477-A	Dipole	I-PEX	1.93	1.96

Note1: The above information was declared by manufacturer.

Note2: The EUT has three sets of antenna, and each set contains two antennas.

Because Set 1, Set 2 and Set 3 are the same type antennas, only the higher gain antenna "Set 1 antenna" was tested.

For 2.4GHz function (2TX/2RX):

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function (2TX/2RX):

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.98	0.09	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT20	0.983	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT20-BF	0.98	0.09	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW20	0.971	0.13	988.75u	3k
802.11ax HEW20-BF	0.919	0.37	2.926m	1k
802.11ac VHT40	0.98	0.09	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40-BF	0.983	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.976	0.11	1.21m	1k
802.11ax HEW40-BF	0.947	0.24	4.358m	300
802.11ac VHT80	0.983	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT80-BF	0.981	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW80	0.976	0.11	1.238m	1k
802.11ax HEW80-BF	0.969	0.14	4.85m	300

Note:

- ◆ DC is Duty Cycle.
- ◆ DCF is Duty Cycle Factor.

**1.1.4 EUT Operational Condition**

EUT Power Type	From power adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	MTool_3.1.0.3			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

There are two EUT, the detail information as following:

EUT	SKU	LAN Transformer		WAN Transformer	
		Brand Name	Model Name	Brand Name	Model Name
1	1	SWAPnet	NS773602	BOTHHAND	GST5009W
2	2	Mingtek	HN36201HF	SWAPnet	NS892402

Note: For RF Conducted and Radiated above 1GHz tests, only EUT 1 was tested and recorded in this test report.



1.2 Applicable 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 v02r01
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

Testing Location				
☐	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	TEL : 886-3-327-3456	FAX : 886-3-327-0973
☒	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	TH02-CB	Eddie Weng	24~26°C / 54~58%	Jul. 05, 2019~Jul. 06, 2019
Radiated below 1GHz	03CH03-CB	Welson Chen	24.4~25.7°C / 62~64%	Jun. 18, 2019~Aug. 07, 2019
Radiated above 1GHz	03CH06-CB	Welson Chen	22.1~24.8°C / 50~61%	Jun. 18, 2019~Aug. 07, 2019
AC Conduction	CO02-CB	Max Lin	22~23°C / 61~62%	Jul. 31, 2019~Aug. 14, 2019

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086B 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)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	96
5200MHz	108
5240MHz	108
5745MHz	108
5785MHz	108
5825MHz	108
802.11ac VHT20_Nss2,(MCS0)_2TX	-
5180MHz	93
5200MHz	108
5240MHz	108
5745MHz	108
5785MHz	108
5825MHz	108
802.11ac VHT40_Nss2,(MCS0)_2TX	-
5190MHz	89
5230MHz	107
5755MHz	108
5795MHz	108
802.11ac VHT80_Nss2,(MCS0)_2TX	-
5210MHz	85
5775MHz	94
802.11ax HEW20_Nss2,(MCS0)_2TX	-
5180MHz	93
5200MHz	108
5240MHz	108
5745MHz	108
5785MHz	108
5825MHz	108
802.11ax HEW40_Nss2,(MCS0)_2TX	-
5190MHz	89
5230MHz	107
5755MHz	108
5795MHz	108
802.11ax HEW80_Nss2,(MCS0)_2TX	-
5210MHz	85



Mode	Power Setting
5775MHz	94
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	93
5200MHz	108
5240MHz	108
5745MHz	108
5785MHz	108
5825MHz	108
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5190MHz	83
5230MHz	104
5755MHz	108
5795MHz	108
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5210MHz	81
5775MHz	91
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	93
5200MHz	108
5240MHz	108
5745MHz	108
5785MHz	108
5825MHz	108
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	83
5230MHz	104
5755MHz	108
5795MHz	108
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	81
5775MHz	91

Note:

- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for HT20 and HT40 are the same or lower than VHT20 and VHT40.
- ♦ There are two modes of EUT, one is beamforming mode, and the other is non-beamforming mode for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz. For Nss1: After evaluating, beamforming mode has been evaluated to be the worst case, so it was selected to test and record 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	WLAN 2.4GHz - EUT 1 + Adapter 1
2	WLAN 2.4GHz - EUT 1 + Adapter 2
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	WLAN 5GHz - EUT 1 + Adapter 1
For operating mode 1 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
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1	WLAN 2.4GHz - EUT 1 + Adapter 1
2	WLAN 2.4GHz - EUT 1 + Adapter 2
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	WLAN5 GHz - EUT 1 + Adapter 2
Mode 2 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	WLAN 2.4GHz - EUT 2 + Adapter 2
For operating mode 4 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix F for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA961004 for Co-location RF Exposure Evaluation.	

Note: The EUT can only be used at Z axis position.

2.3 EUT Operation during Test

For CTX Mode:

For non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For 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 Telnet.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.



2.4 Accessories

Accessories				
No.	Equipment Name	Brand Name	Model Name	Rating
1	Adapter 1	LEI	MU24B1120200-A1	INPUT: 100-240V ~ 50/60Hz, 0.7A OUTPUT: 12V, 2A
2	Adapter 2	APD	WB-24J12FU	INPUT: 100-240V ~ 50-60Hz, 0.7A Max. OUTPUT: 12V, 2A
No.	Other			
3	RJ-45 cable*1: Non-shielded, 1.5m			

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	HDD3.0	WD	WDBACY5000AWT	N/A
B	HDD3.0	WD	WDBACY5000AWT	N/A
C	NB	DELL	E6430	N/A

For Radiated (below 1GHz) and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

For Radiated (above 1GHz):

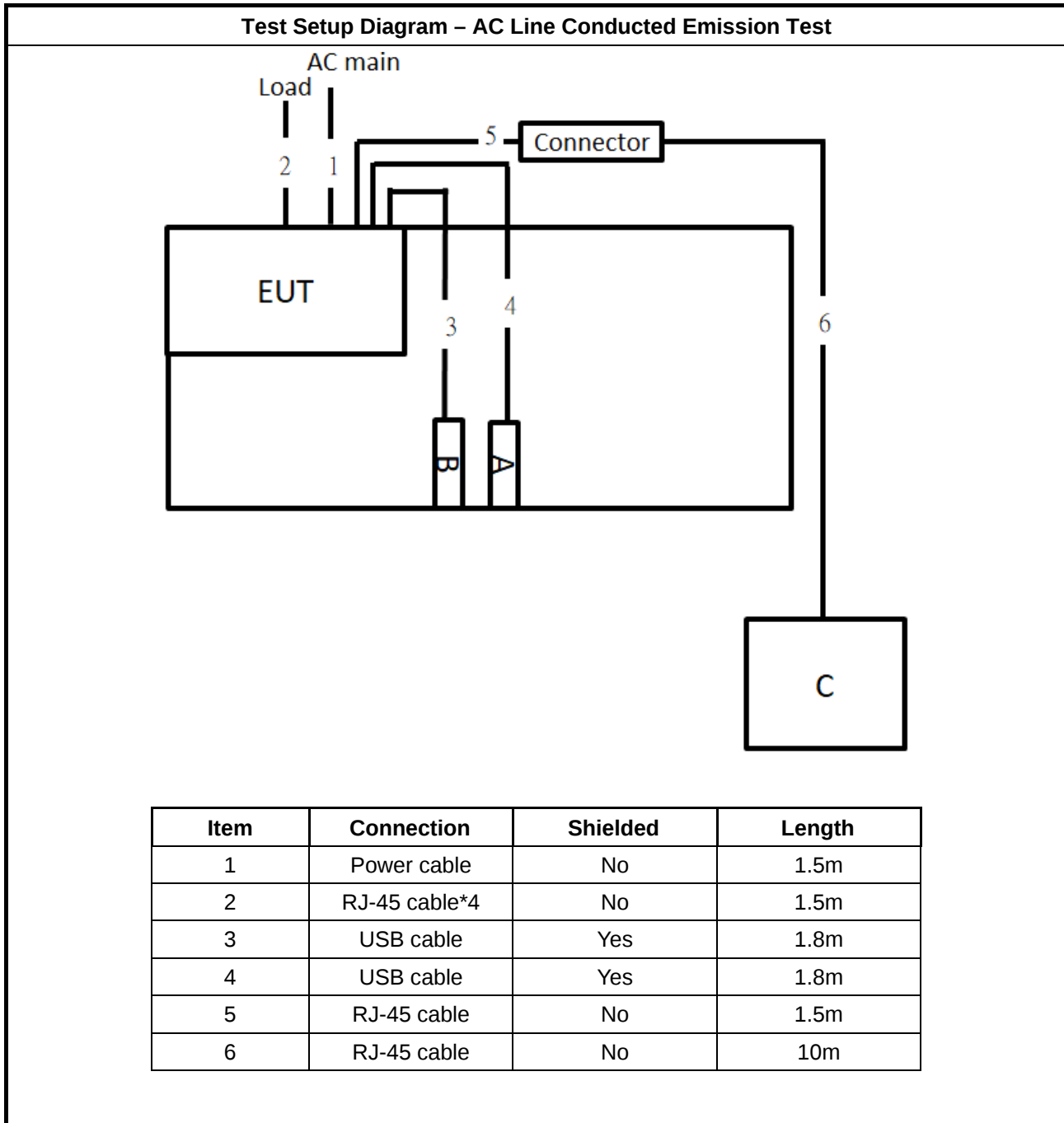
For non-beamforming mode:

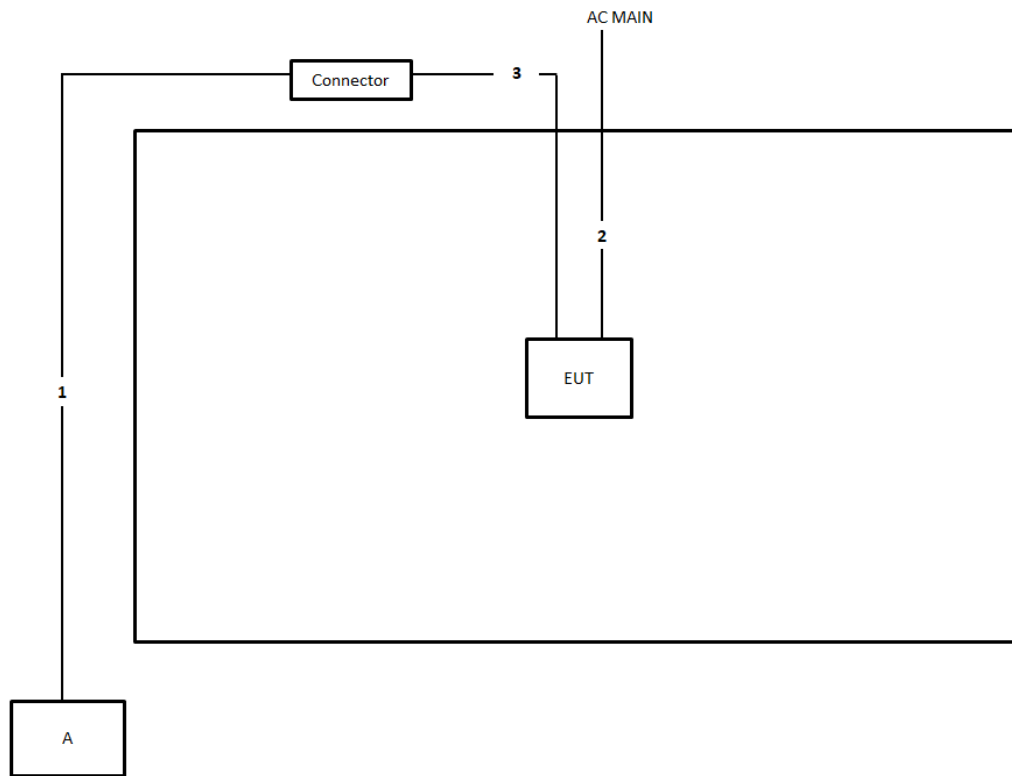
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

For beamforming mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	AP (RX Device)	ASUS	RT-AX88U	MSQ-RTAXHP00

2.6 Test Setup Diagram

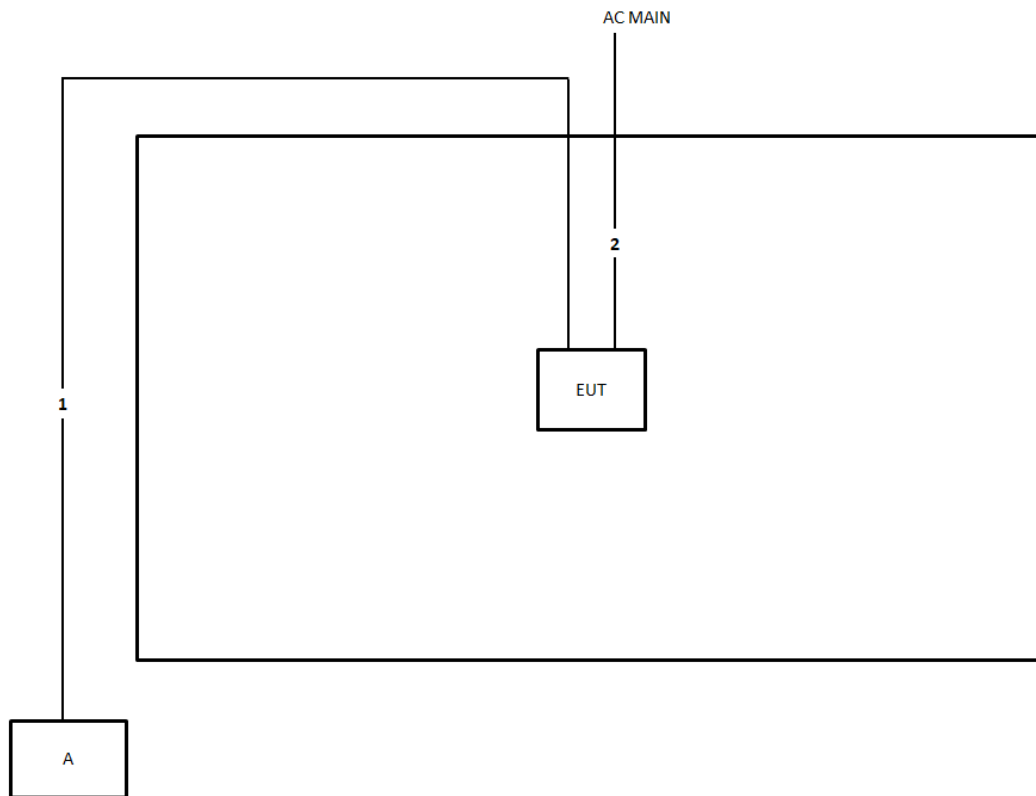


Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.5m
3	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz

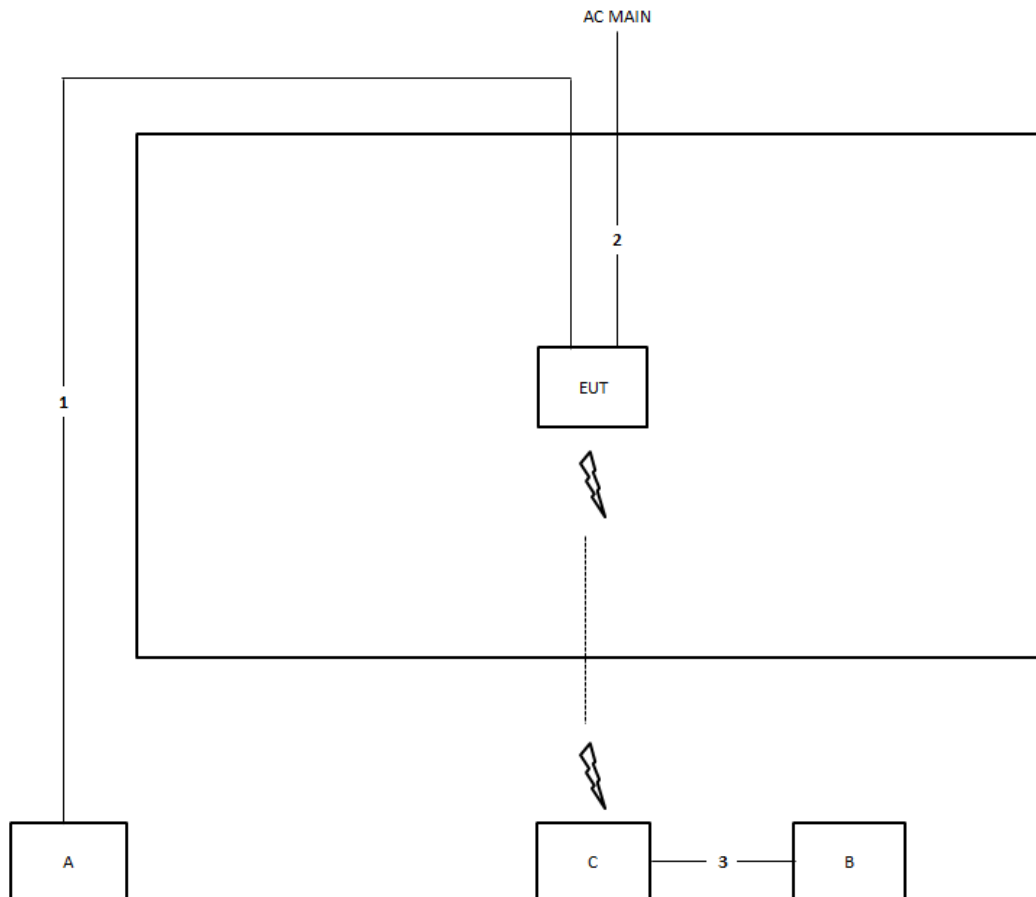
For non-beamforming mode:



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz

For beamforming mode:



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.5m
3	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.

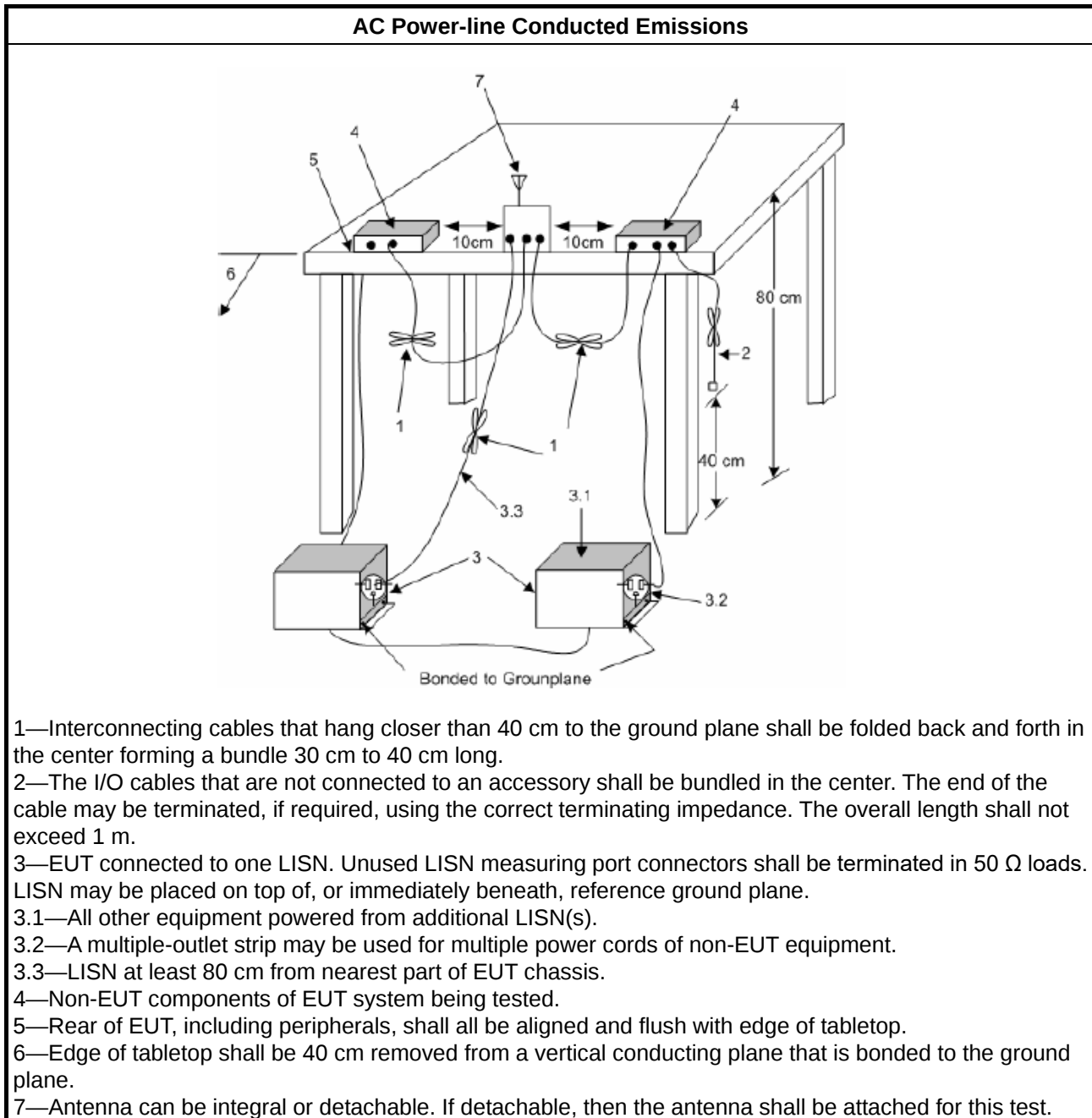
3.1.2 Measuring Instruments

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 $11 \text{ dBm} + 10 \log B$, 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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq 500\text{kHz}$.
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 $\geq 500\text{kHz}$.

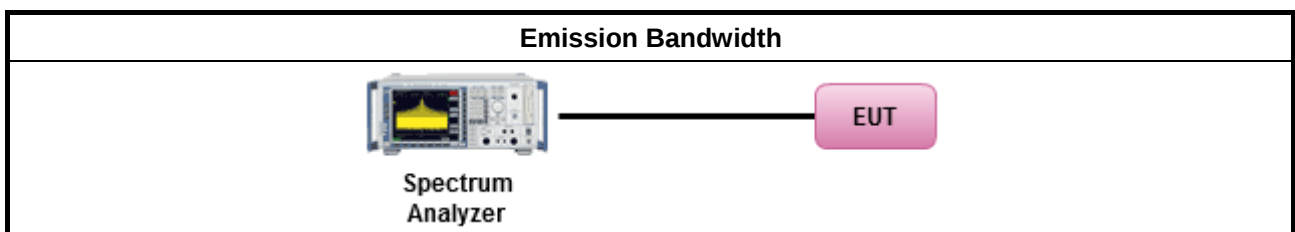
3.2.2 Measuring Instruments

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.	

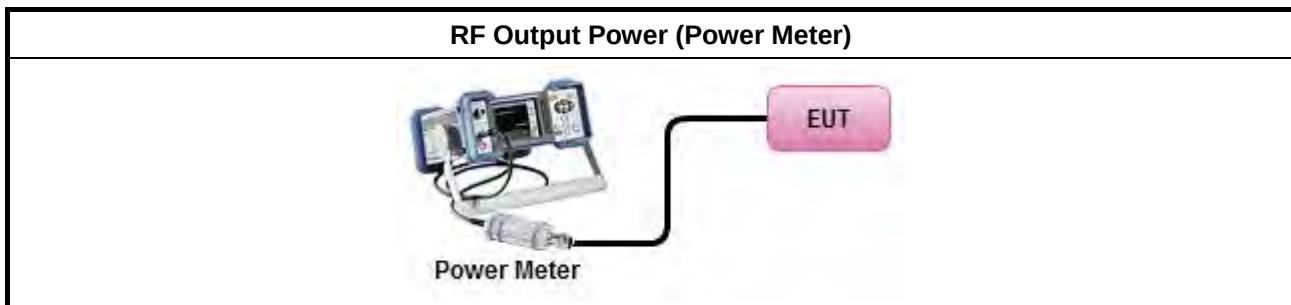
3.3.2 Measuring Instruments

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



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 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.
☐	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.
☐ 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.	

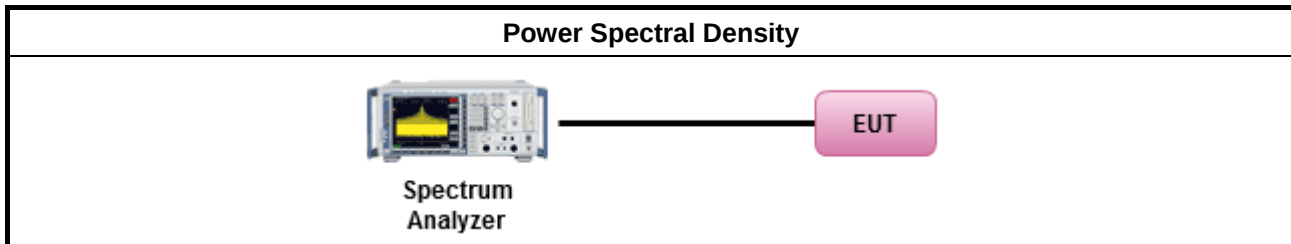
3.4.2 Measuring Instruments

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, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth [duty cycle ≥ 98% 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 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).

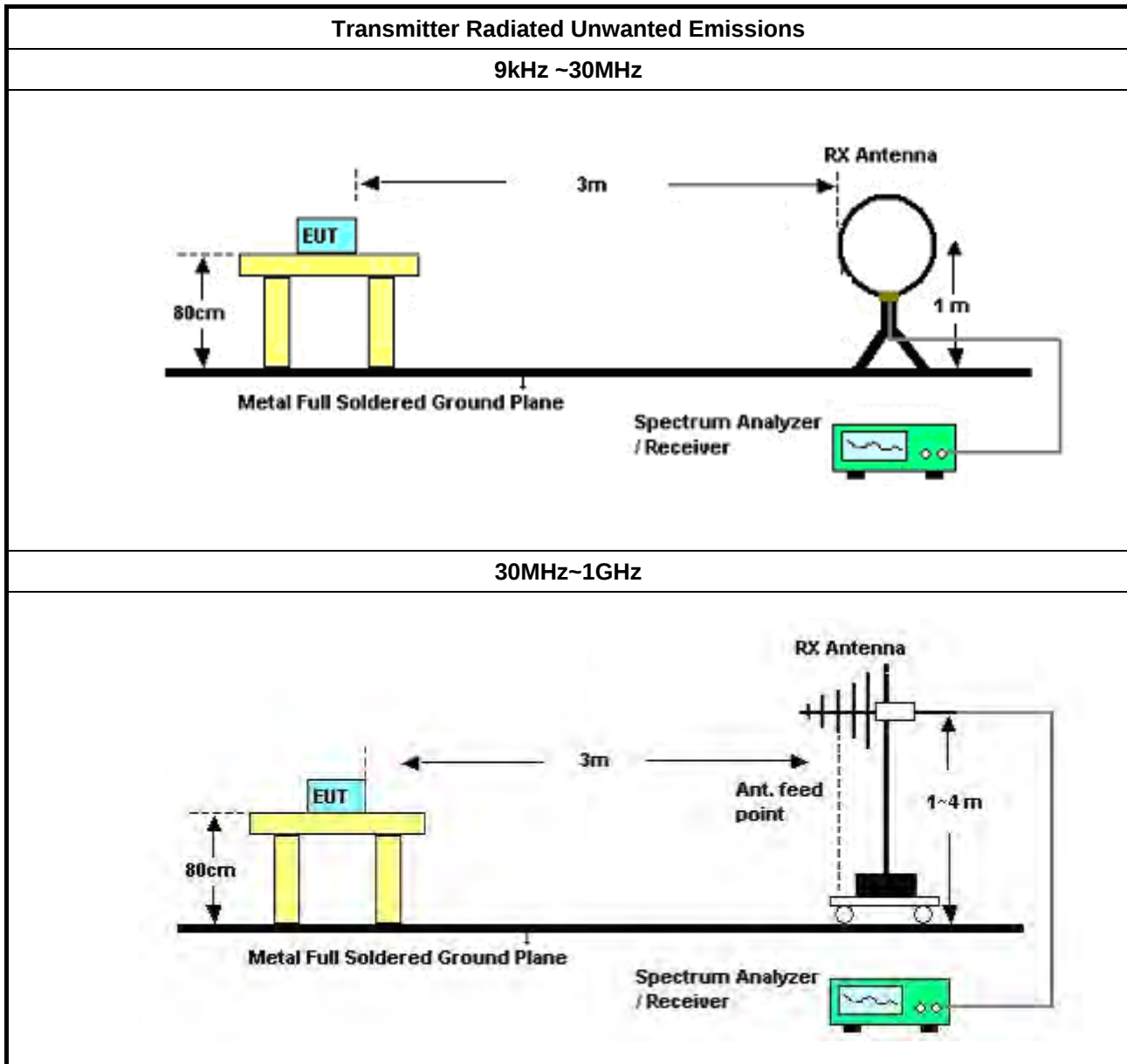
3.5.2 Measuring Instruments

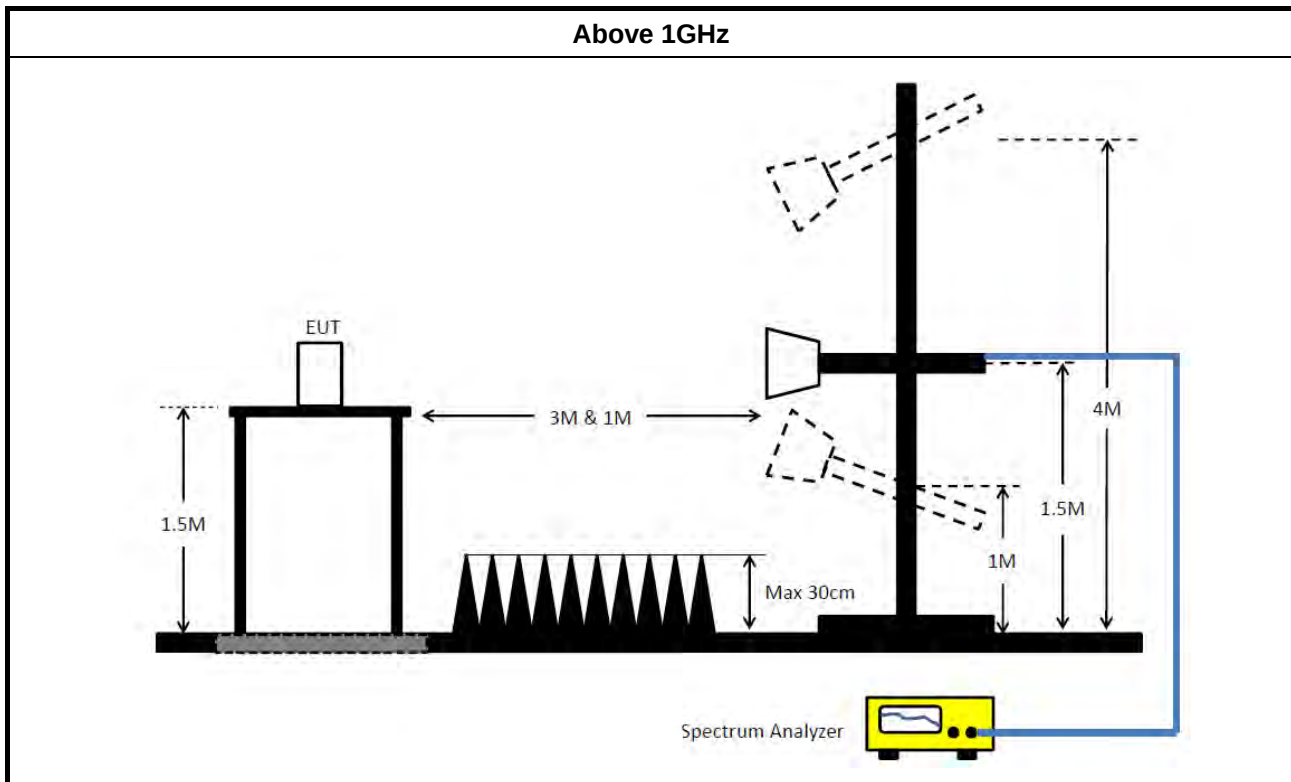
Refer a test equipment and calibration data table in this test report.

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 G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.	
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

3.5.6 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.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

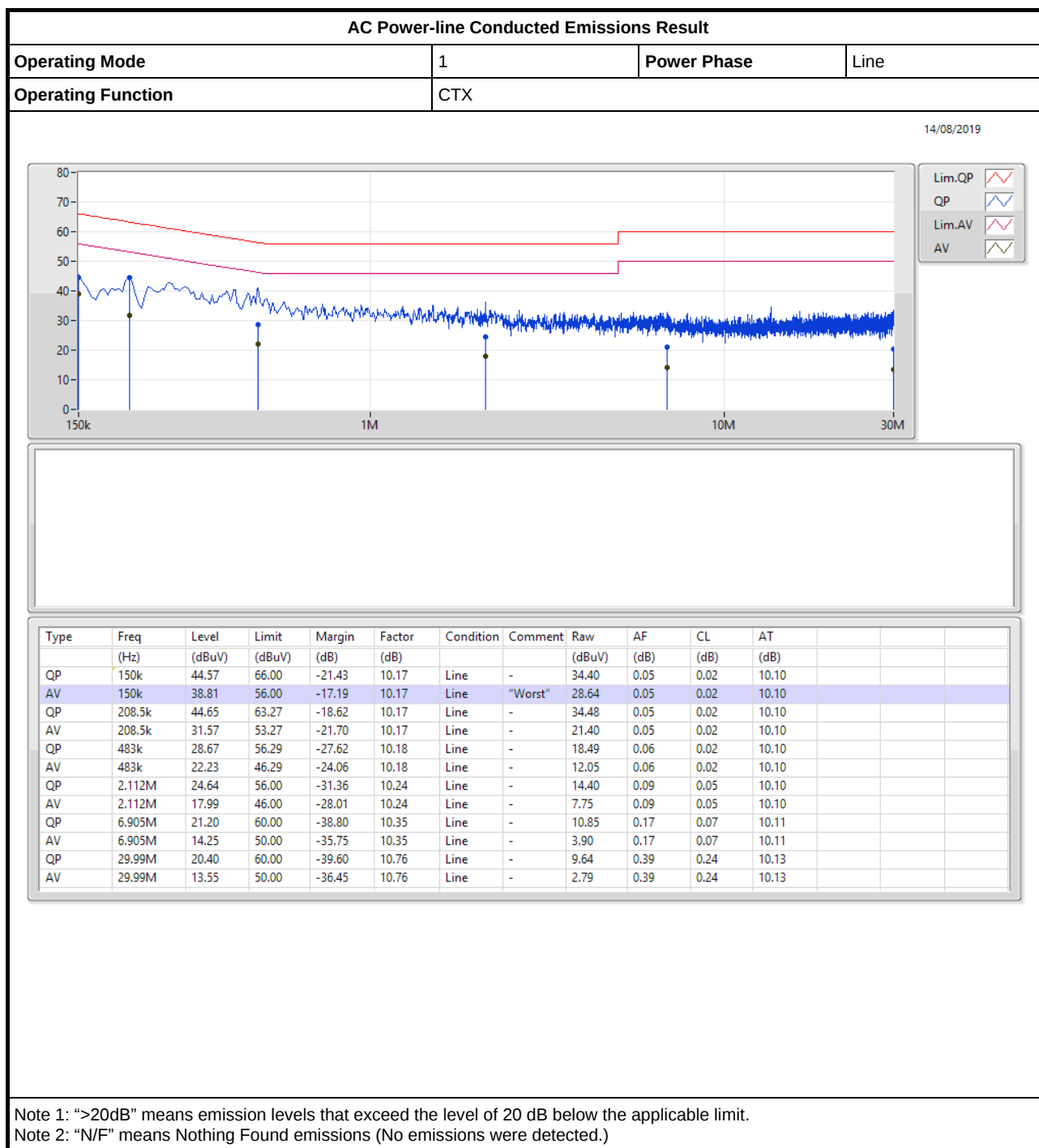
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 21, 2018	Nov. 20, 2019	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 05, 2018	Nov. 04, 2019	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 16, 2019	Jan. 15, 2020	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Nov. 06, 2018	Nov. 05, 2019	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner	CBL6112B & N-6-06	2928 & AT-N0607	20MHz ~ 2GHz	Jan. 02, 2019	Jan. 01, 2020	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 16, 2019	Jan. 15, 2020	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Jan. 31, 2019	Jan. 30, 2020	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+27	25MHz ~ 1GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1292	1GHz~18GHz	Jul. 20, 2018	Jul. 19, 2019	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1292	1GHz~18GHz	Jul. 17, 2019	Jul. 16, 2020	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA91705 07	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 08, 2019	May 07, 2020	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35 -HG	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35 -HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 03, 2018	Oct. 02, 2019	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05	1GHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05+24	1GHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)

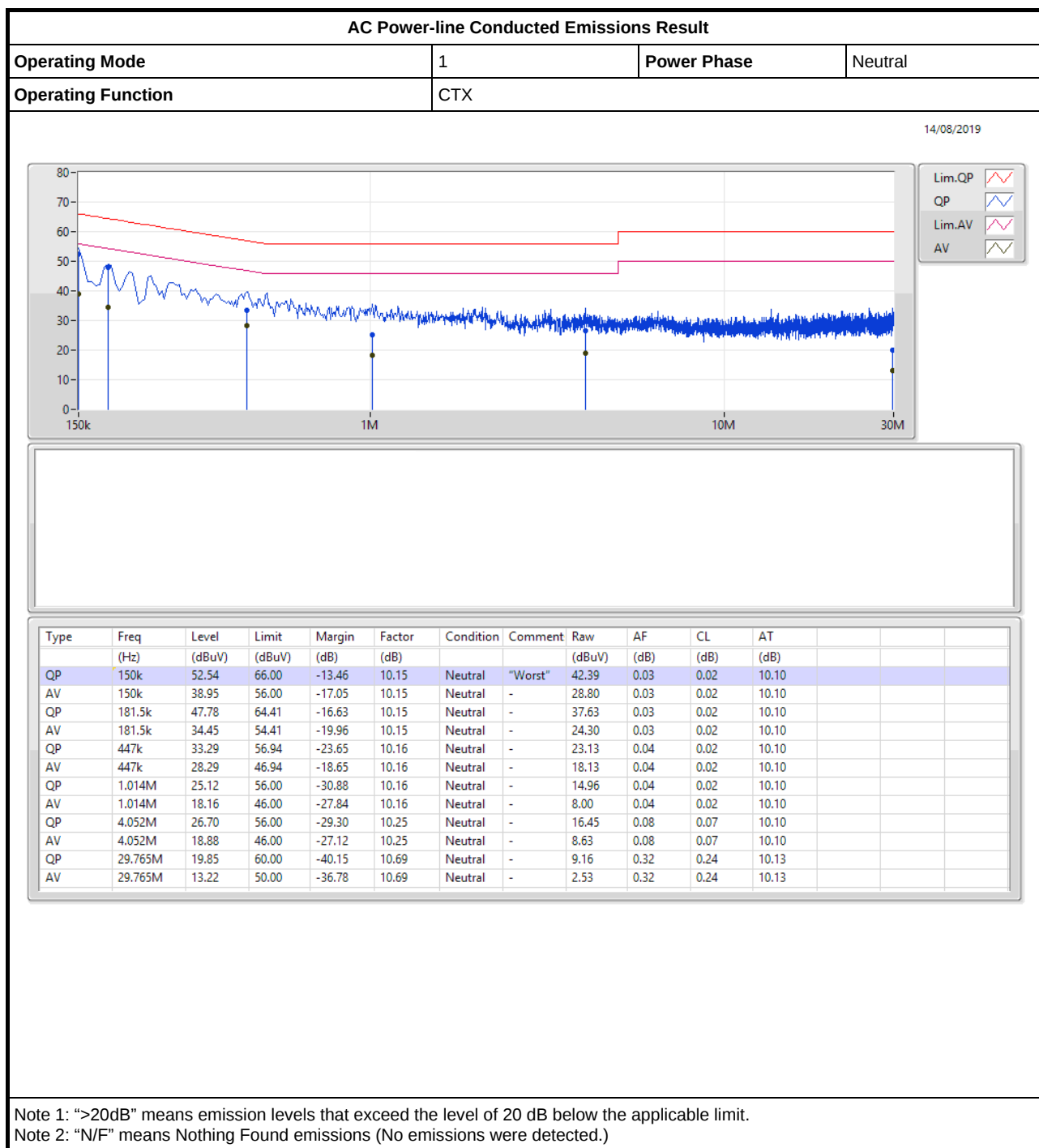


Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 02, 2019	Jul. 01, 2020	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 03, 2018	Sep. 02, 2019	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 03, 2018	Sep. 02, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-3	1 GHz – 26.5 GHz	Oct. 24, 2018	Oct. 23, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)

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

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





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	41.22M	17.306M	17M3D1D	22.05M	16.611M
802.11ac VHT20_Nss2,(MCS0)_2TX	42.33M	18.104M	18M1D1D	21.87M	17.74M
802.11ac VHT40_Nss2,(MCS0)_2TX	82.86M	36.791M	36M8D1D	39.48M	36.237M
802.11ac VHT80_Nss2,(MCS0)_2TX	81.72M	75.778M	75M8D1D	81.6M	75.694M
802.11ax HEW20_Nss2,(MCS0)_2TX	42.24M	19.256M	19M3D1D	21.54M	19.006M
802.11ax HEW40_Nss2,(MCS0)_2TX	73.56M	38.041M	38M0D1D	39.72M	37.488M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.48M	77.063M	77M1D1D	81.36M	76.902M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	42.18M	18.241M	18M2D1D	21.57M	17.751M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	78.72M	36.497M	36M5D1D	39.66M	36.262M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	82.32M	75.741M	75M7D1D	81.6M	75.679M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	40.8M	19.205M	19M2D1D	21.72M	19.009M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	72.06M	37.817M	37M8D1D	39.84M	37.534M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	81.72M	77.107M	77M1D1D	81.24M	76.926M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.32M	19.563M	19M6D1D	16.26M	16.93M
802.11ac VHT20_Nss2,(MCS0)_2TX	17.58M	20.465M	20M5D1D	17.16M	17.966M
802.11ac VHT40_Nss2,(MCS0)_2TX	36.3M	38.099M	38M1D1D	36.24M	36.896M
802.11ac VHT80_Nss2,(MCS0)_2TX	75.48M	75.895M	75M9D1D	74.16M	75.838M
802.11ax HEW20_Nss2,(MCS0)_2TX	18.87M	20.018M	20M0D1D	18.63M	19.116M
802.11ax HEW40_Nss2,(MCS0)_2TX	37.38M	39.454M	39M5D1D	37.02M	38.129M
802.11ax HEW80_Nss2,(MCS0)_2TX	76.44M	77.092M	77M1D1D	75.24M	77.019M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	17.58M	19.771M	19M8D1D	17.1M	17.956M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	36.24M	38.466M	38M5D1D	35.64M	37.03M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	75.72M	75.966M	76M0D1D	75.36M	75.767M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.87M	20.085M	20M1D1D	18.45M	19.129M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.44M	39.638M	39M6D1D	37.08M	38.118M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	76.68M	77.199M	77M2D1D	76.44M	77.126M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	24.18M	16.617M	22.05M	16.611M
5200MHz	Pass	Inf	41.22M	17.306M	36.99M	17.067M
5240MHz	Pass	Inf	39.6M	17.065M	36.72M	16.971M
5745MHz	Pass	500k	16.29M	16.93M	16.29M	18.285M
5785MHz	Pass	500k	16.26M	17.57M	16.32M	18.194M
5825MHz	Pass	500k	16.29M	17.547M	16.29M	19.563M
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.87M	17.74M	22.14M	17.804M
5200MHz	Pass	Inf	41.34M	18.082M	37.62M	18.104M
5240MHz	Pass	Inf	42.33M	17.971M	38.16M	17.998M
5745MHz	Pass	500k	17.19M	17.966M	17.49M	19.232M
5785MHz	Pass	500k	17.49M	18.304M	17.55M	19.079M
5825MHz	Pass	500k	17.16M	18.35M	17.58M	20.465M
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.74M	36.286M	39.48M	36.237M
5230MHz	Pass	Inf	82.86M	36.791M	80.82M	36.524M
5755MHz	Pass	500k	36.24M	36.896M	36.24M	37.32M
5795MHz	Pass	500k	36.24M	37.102M	36.3M	38.099M
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.72M	75.778M	81.6M	75.694M
5775MHz	Pass	500k	75.48M	75.895M	74.16M	75.838M
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.98M	19.006M	21.54M	19.009M
5200MHz	Pass	Inf	42.24M	19.256M	37.62M	19.165M
5240MHz	Pass	Inf	40.05M	19.147M	39.72M	19.182M
5745MHz	Pass	500k	18.87M	19.116M	18.78M	19.396M
5785MHz	Pass	500k	18.81M	19.245M	18.63M	19.341M
5825MHz	Pass	500k	18.72M	19.251M	18.69M	20.018M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.32M	37.542M	39.72M	37.488M
5230MHz	Pass	Inf	73.56M	38.041M	72.06M	37.899M
5755MHz	Pass	500k	37.02M	38.129M	37.02M	38.489M
5795MHz	Pass	500k	37.26M	38.206M	37.38M	39.454M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.48M	76.902M	81.36M	77.063M
5775MHz	Pass	500k	76.44M	77.019M	75.24M	77.092M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.9M	17.783M	21.57M	17.751M
5200MHz	Pass	Inf	42.18M	18.241M	36.33M	18.09M
5240MHz	Pass	Inf	40.98M	18.075M	36.03M	17.977M
5745MHz	Pass	500k	17.49M	17.956M	17.55M	18.972M
5785MHz	Pass	500k	17.1M	18.36M	17.52M	18.939M
5825MHz	Pass	500k	17.52M	18.312M	17.58M	19.771M

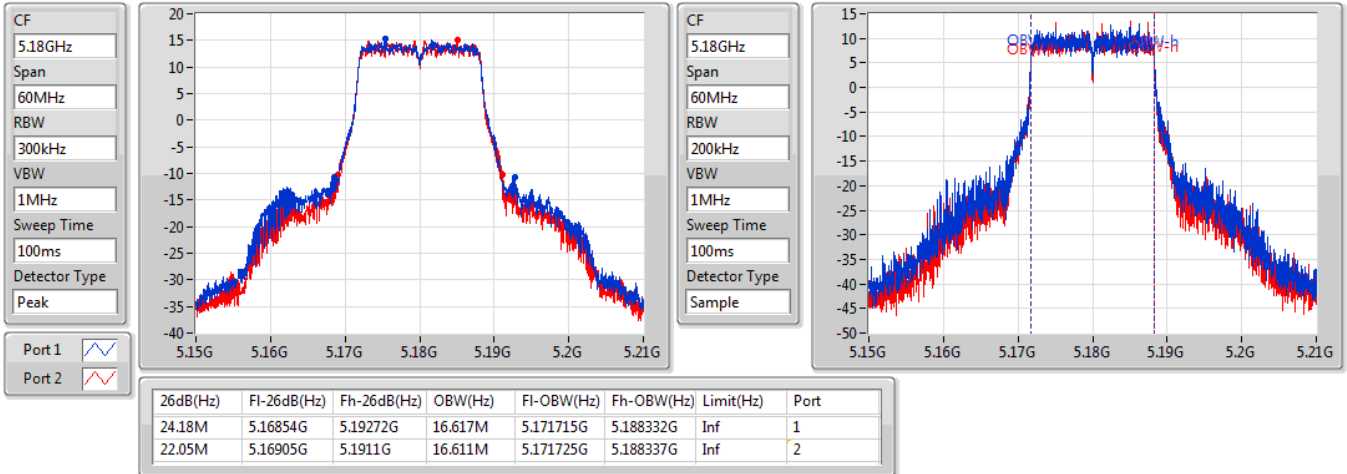
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.38M	36.262M	39.66M	36.297M
5230MHz	Pass	Inf	78.72M	36.497M	74.34M	36.346M
5755MHz	Pass	500k	35.64M	37.03M	36.24M	37.53M
5795MHz	Pass	500k	36.24M	37.22M	35.88M	38.466M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	82.32M	75.741M	81.6M	75.679M
5775MHz	Pass	500k	75.36M	75.767M	75.72M	75.966M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.72M	19.009M	21.78M	19.02M
5200MHz	Pass	Inf	38.88M	19.205M	40.8M	19.136M
5240MHz	Pass	Inf	38.76M	19.136M	37.65M	19.127M
5745MHz	Pass	500k	18.84M	19.129M	18.54M	19.417M
5785MHz	Pass	500k	18.84M	19.234M	18.45M	19.412M
5825MHz	Pass	500k	18.87M	19.245M	18.45M	20.085M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.14M	37.534M	39.84M	37.606M
5230MHz	Pass	Inf	72.06M	37.817M	68.28M	37.666M
5755MHz	Pass	500k	37.44M	38.118M	37.08M	38.39M
5795MHz	Pass	500k	37.14M	38.174M	37.32M	39.638M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.72M	77.107M	81.24M	76.926M
5775MHz	Pass	500k	76.44M	77.199M	76.68M	77.126M

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

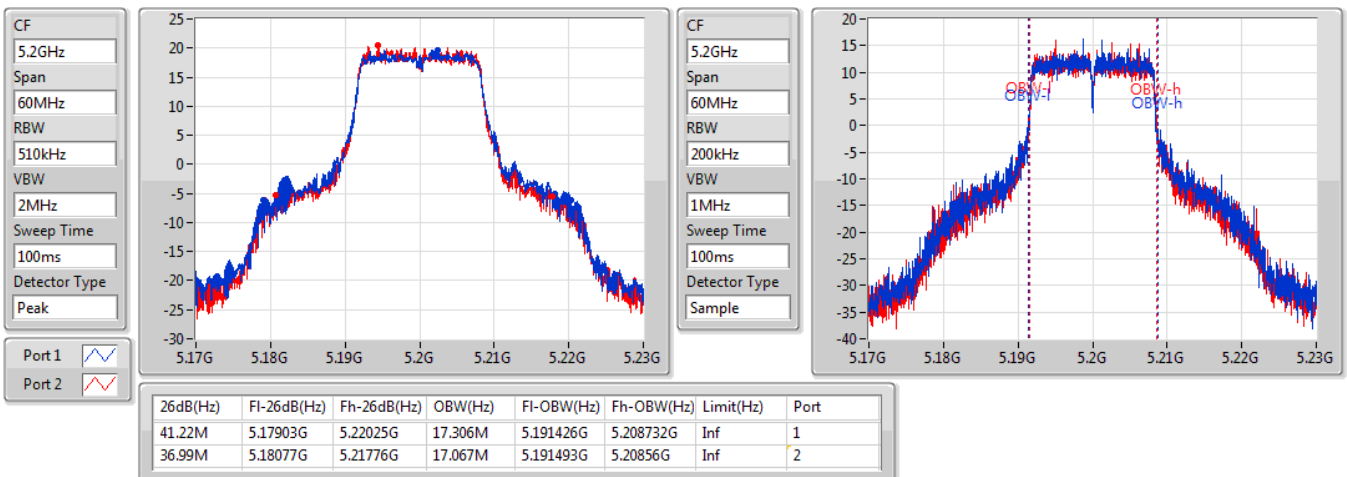
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

05/07/2019

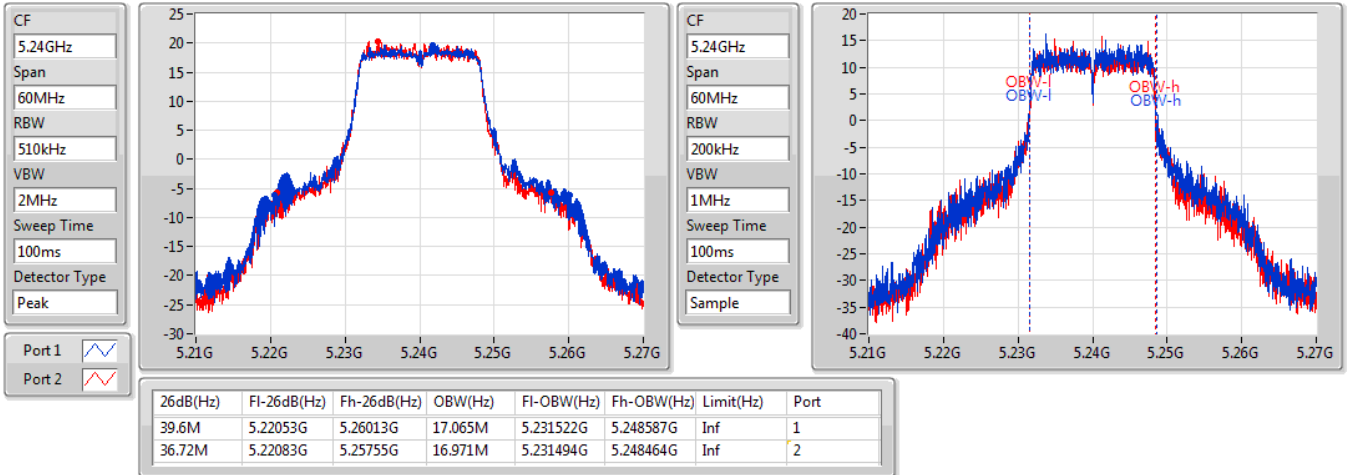

802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

05/07/2019

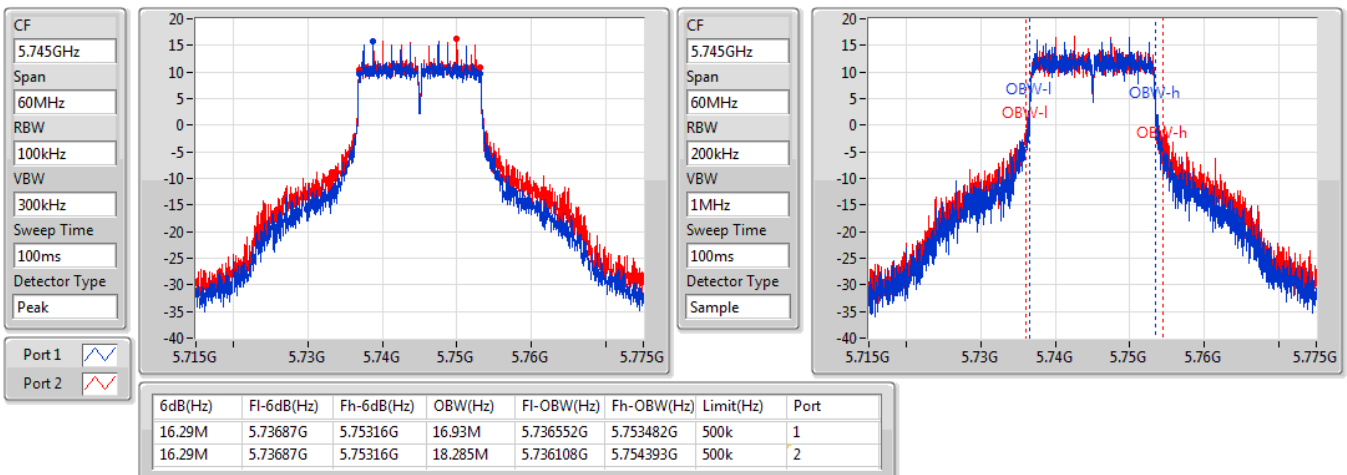


802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

05/07/2019

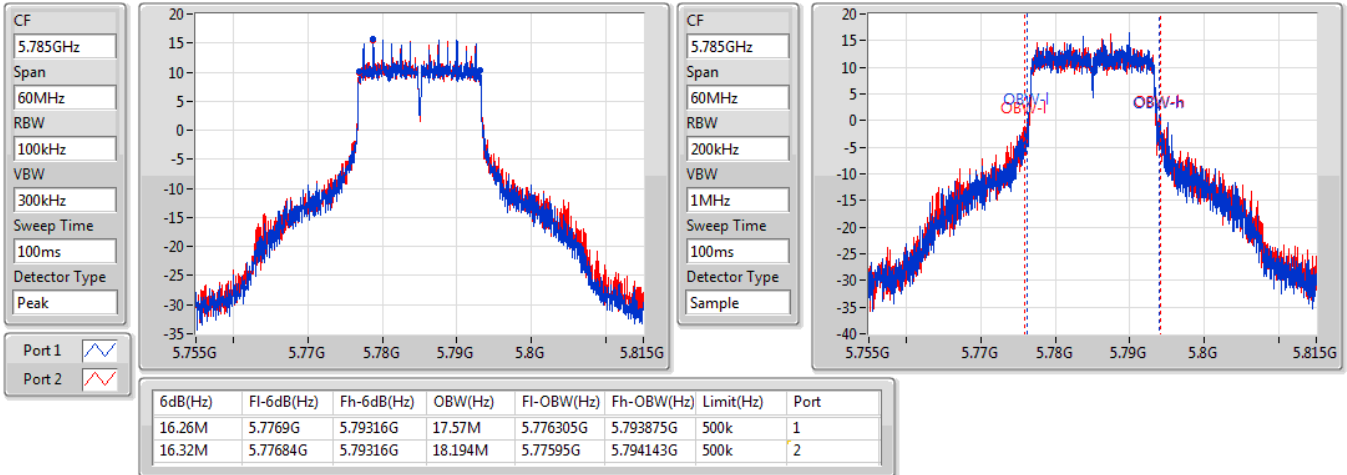

802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

05/07/2019

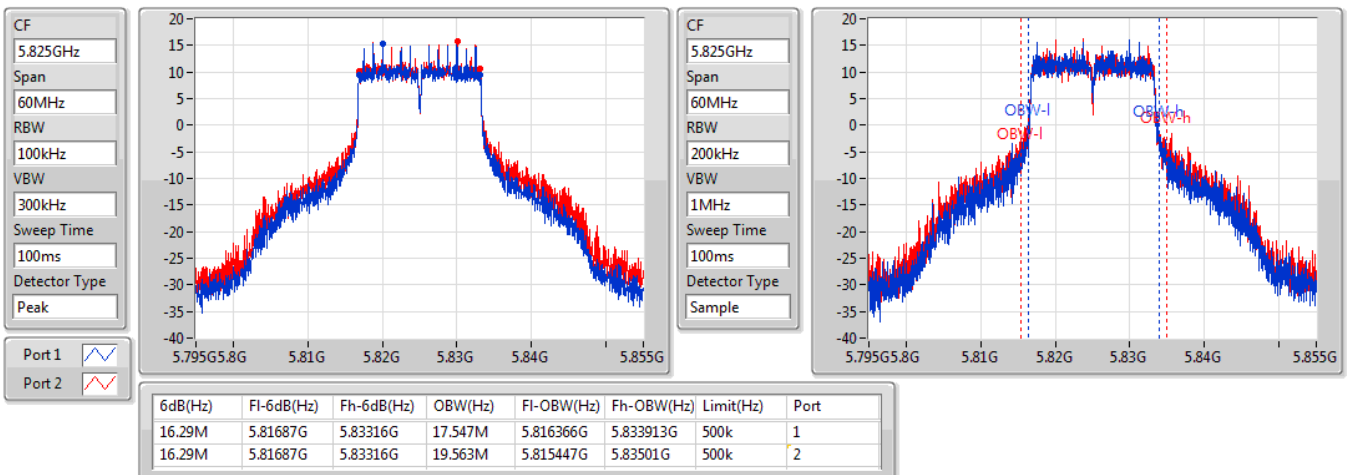


802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

05/07/2019

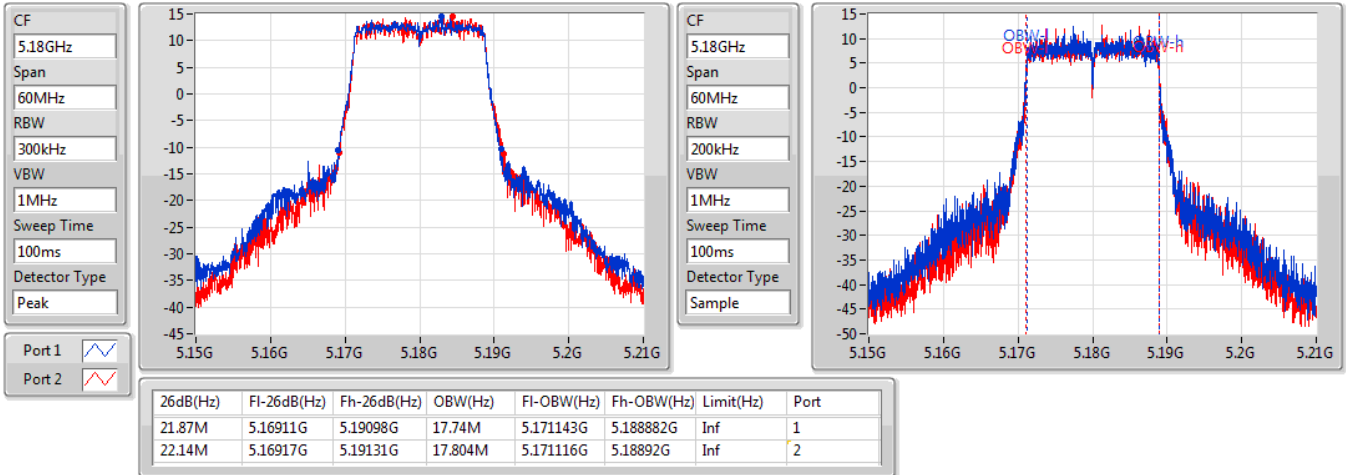

802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

05/07/2019

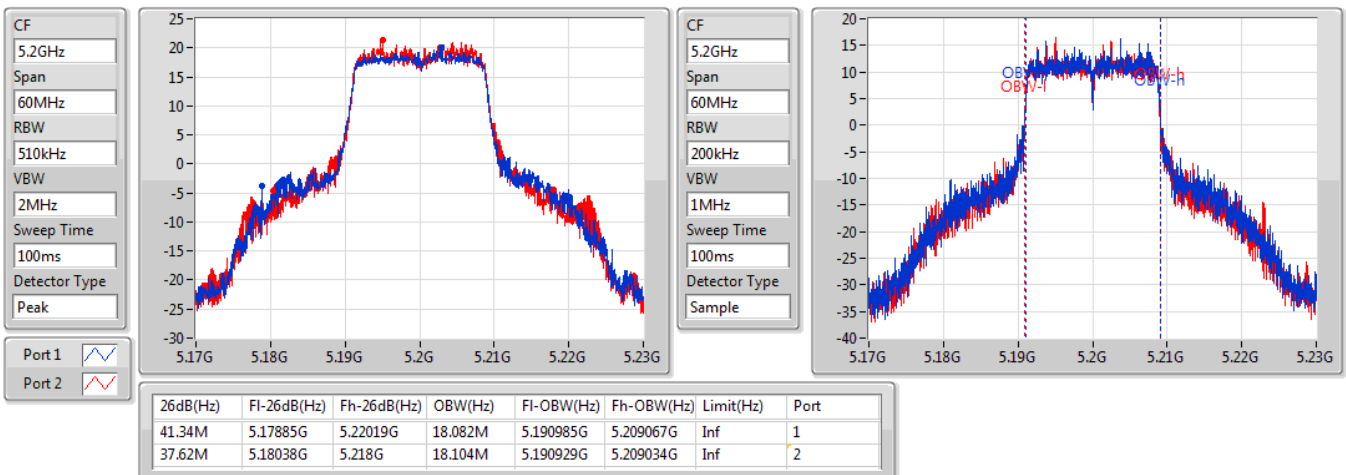


802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5180MHz

05/07/2019

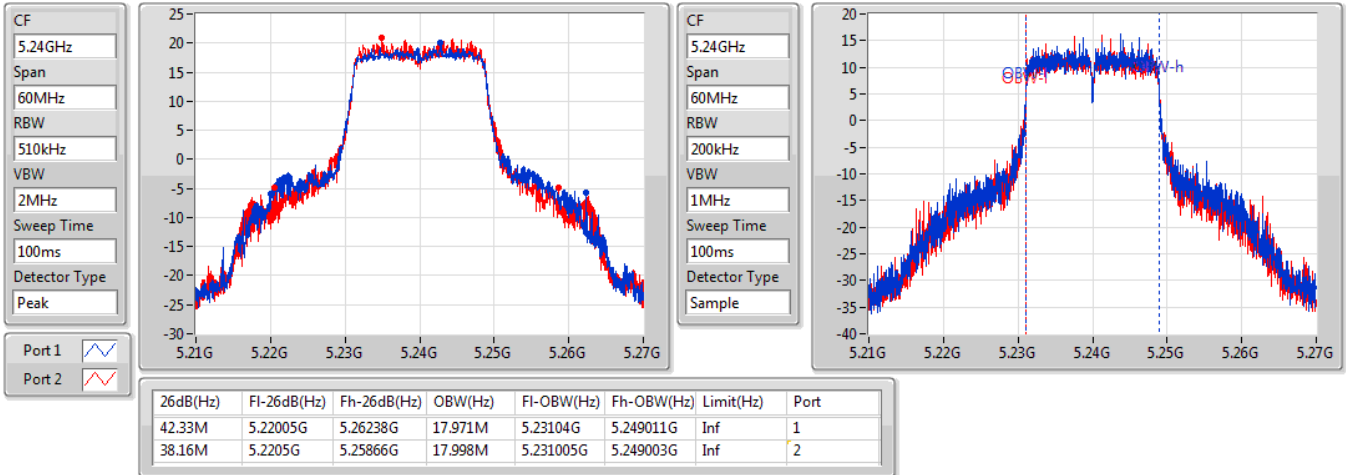

802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5200MHz

05/07/2019

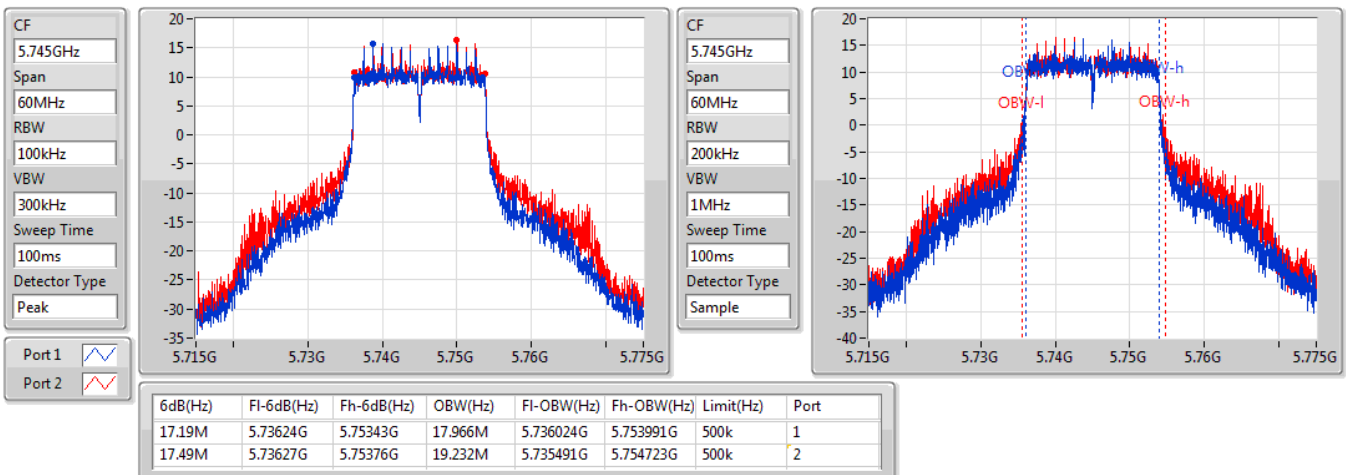


802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5240MHz

05/07/2019

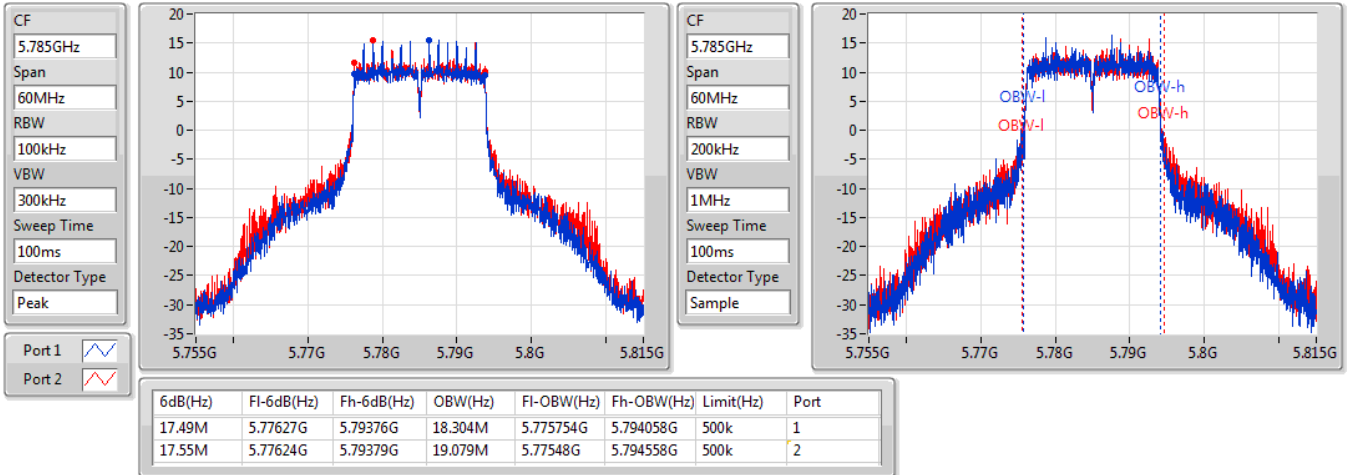

802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5745MHz

05/07/2019

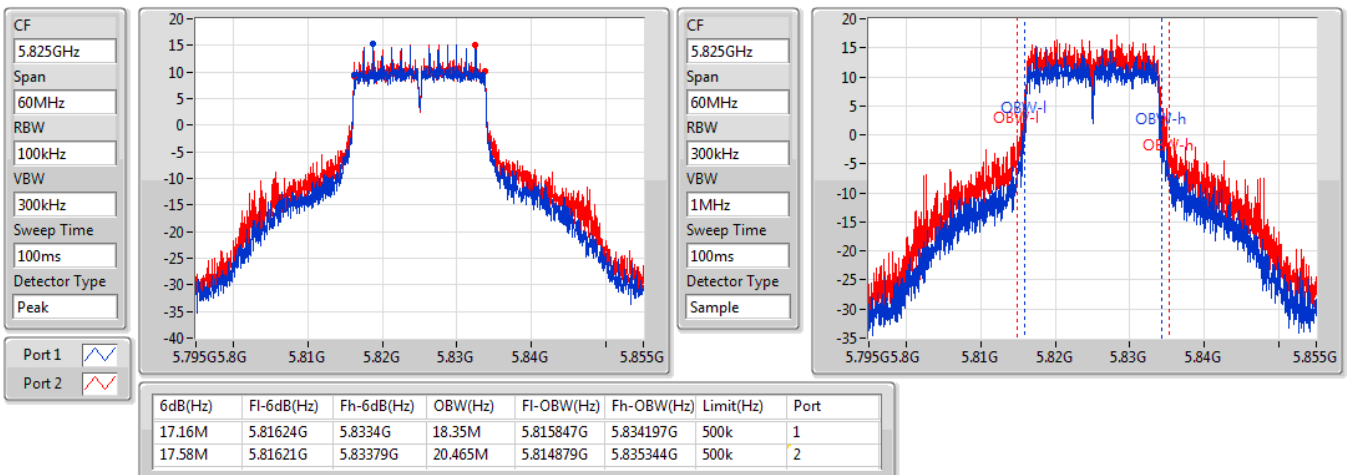


802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5785MHz

05/07/2019

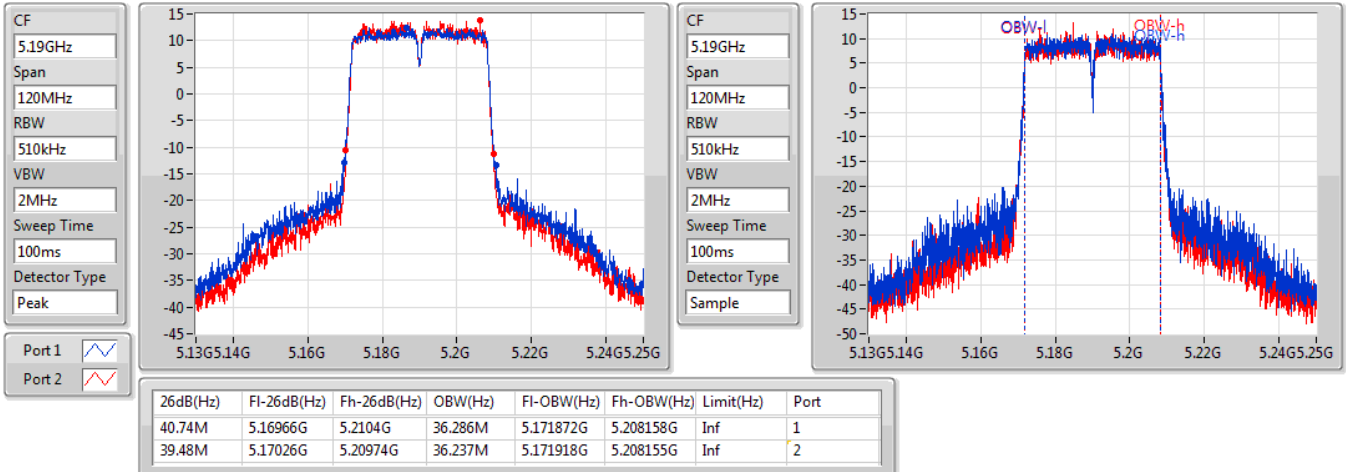

802.11ac VHT20_Nss2,(MCS0)_2TX
EBW
5825MHz

05/07/2019

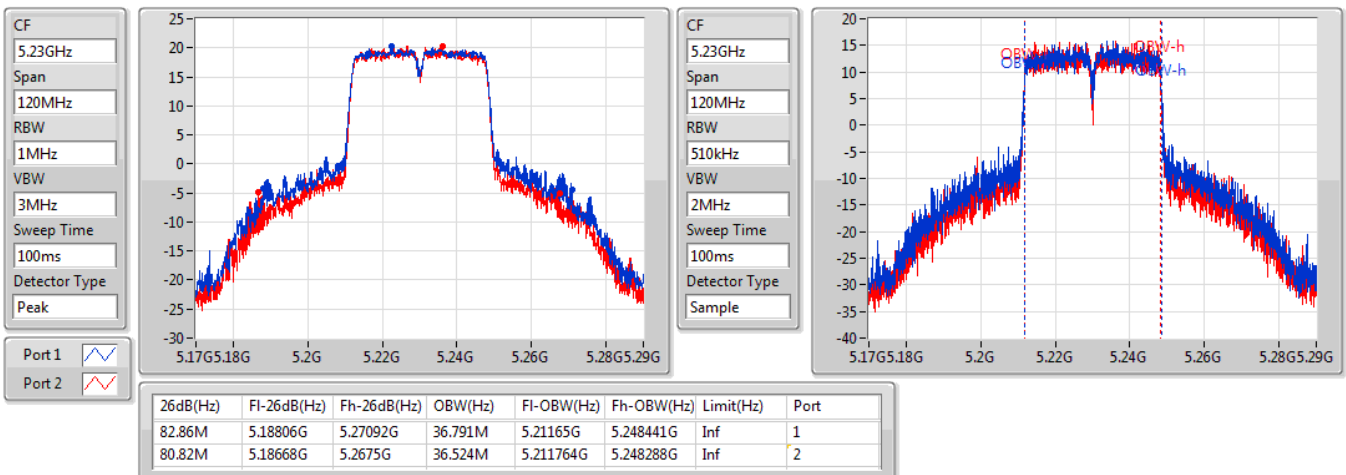


802.11ac VHT40_Nss2,(MCS0)_2TX
EBW
5190MHz

05/07/2019

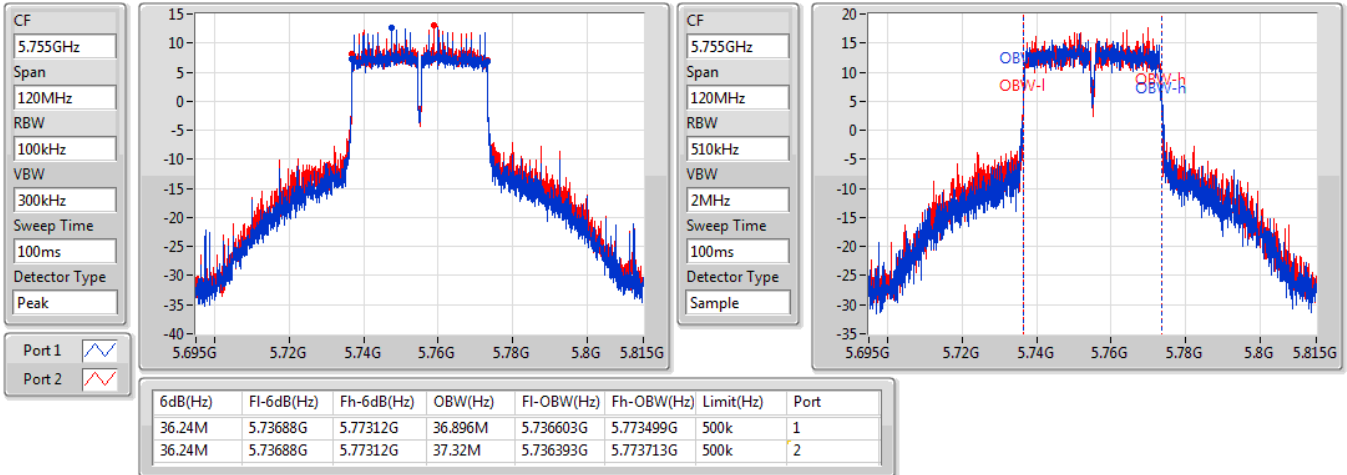

802.11ac VHT40_Nss2,(MCS0)_2TX
EBW
5230MHz

06/07/2019

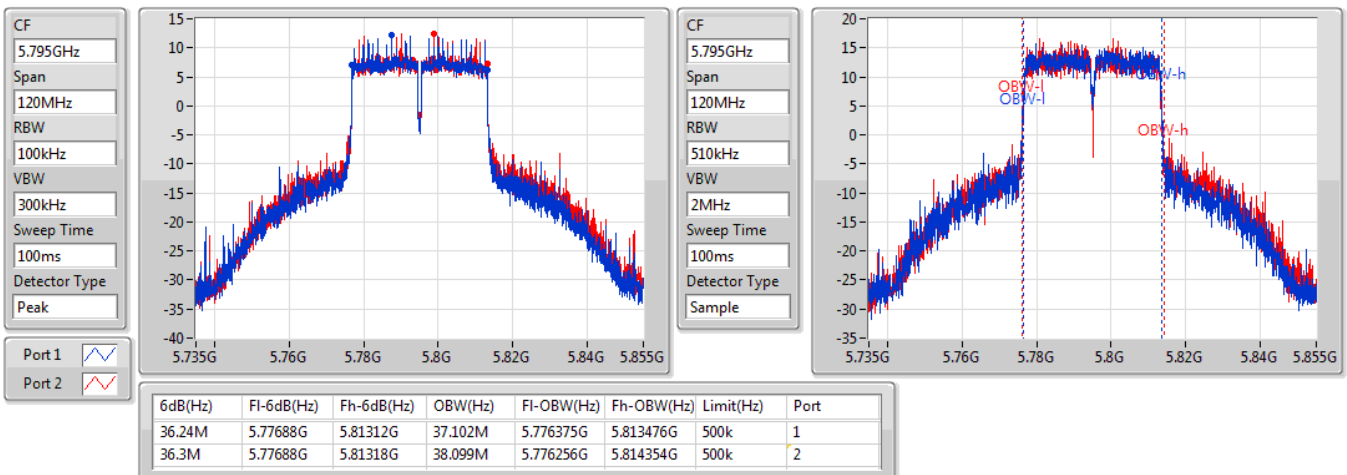


802.11ac VHT40_Nss2,(MCS0)_2TX
EBW
5755MHz

06/07/2019

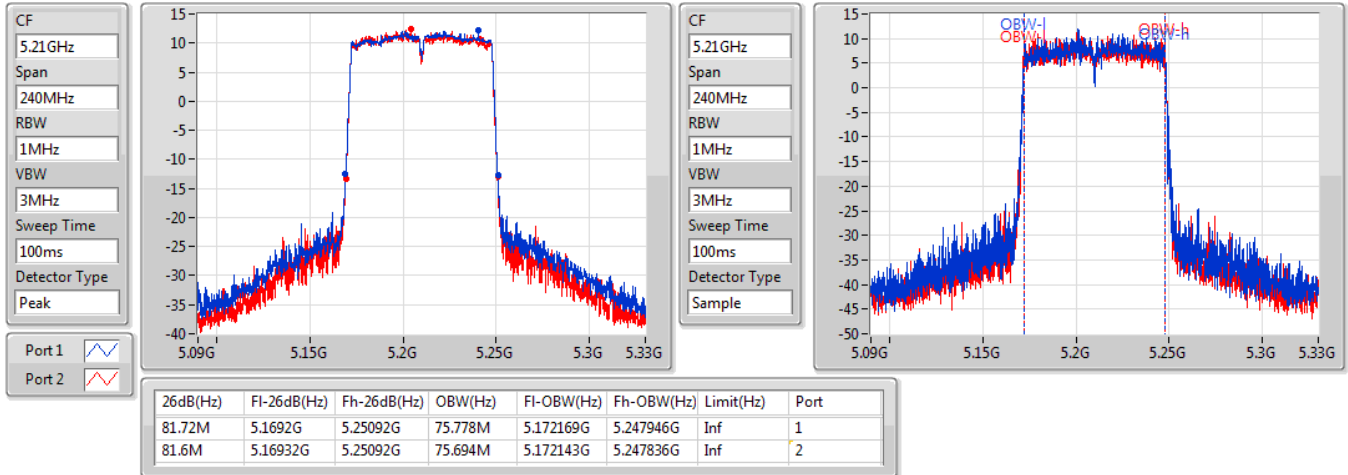

802.11ac VHT40_Nss2,(MCS0)_2TX
EBW
5795MHz

06/07/2019

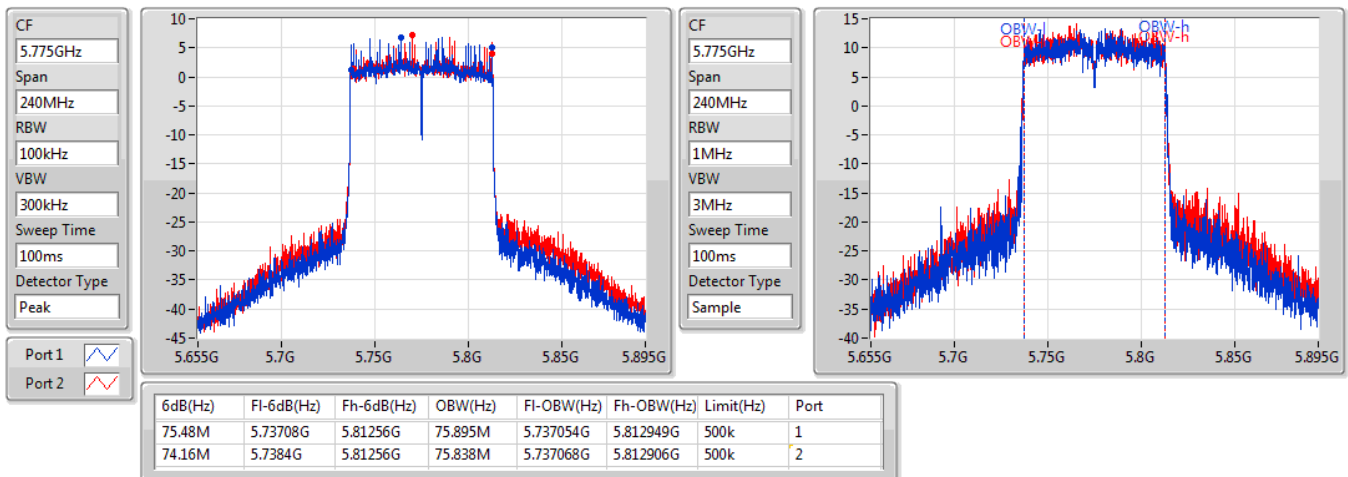


802.11ac VHT80_Nss2,(MCS0)_2TX
EBW
5210MHz

06/07/2019

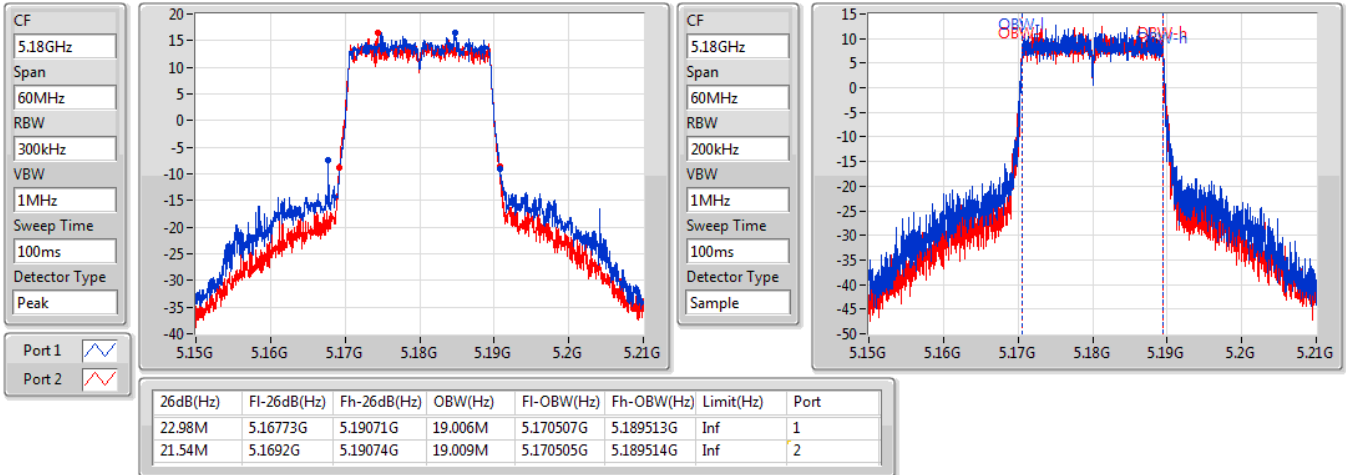

802.11ac VHT80_Nss2,(MCS0)_2TX
EBW
5775MHz

06/07/2019

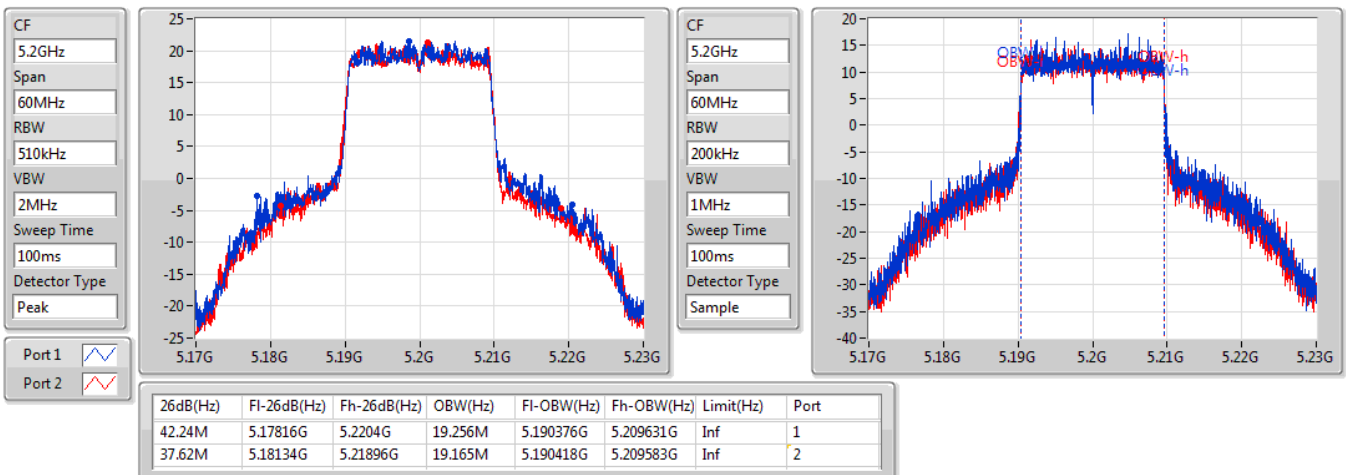


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5180MHz

05/07/2019

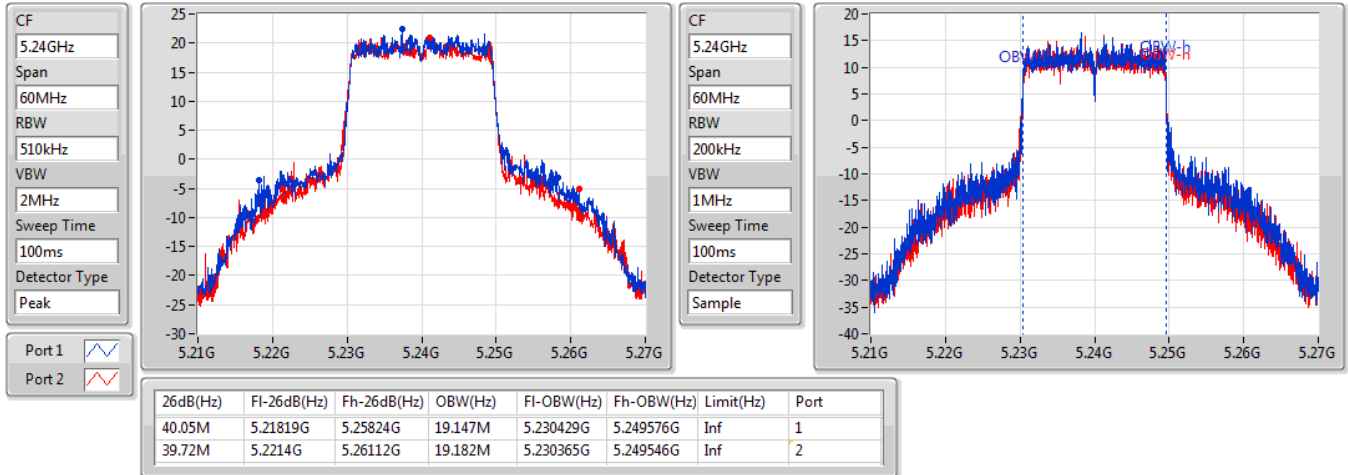

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5200MHz

05/07/2019

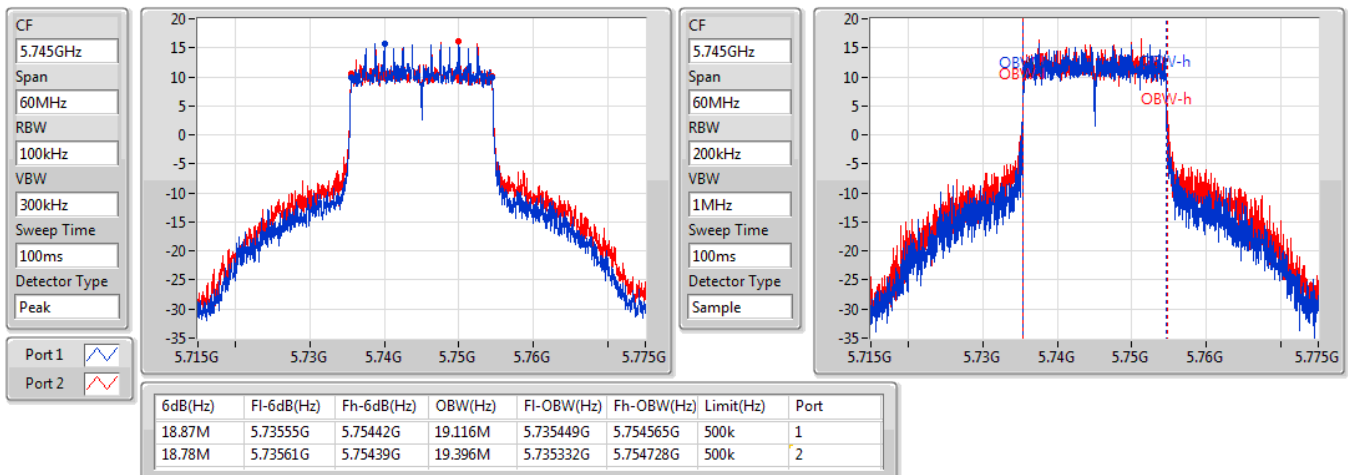


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5240MHz

05/07/2019

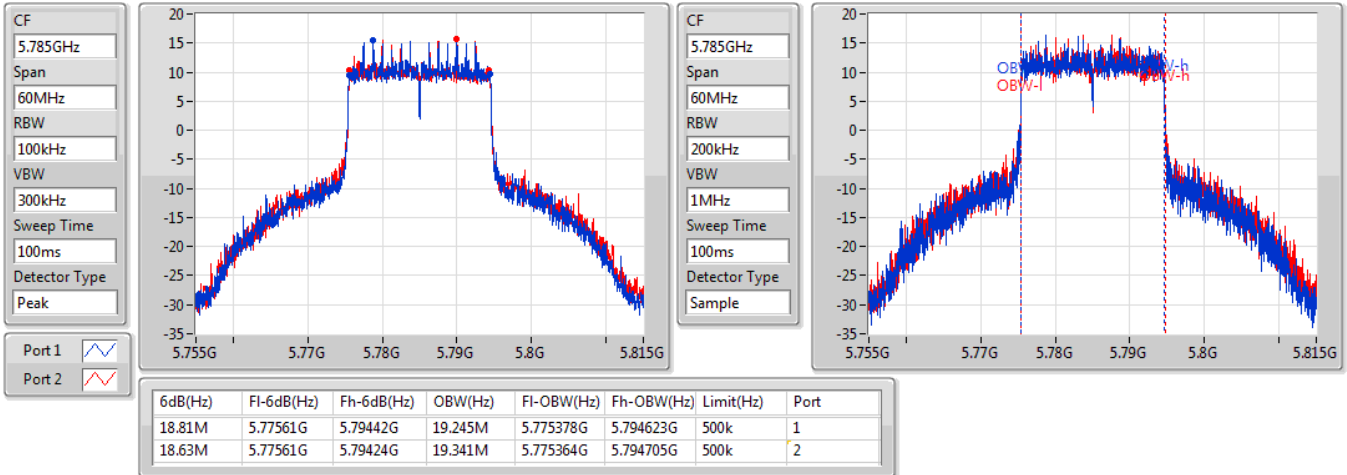

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5745MHz

05/07/2019

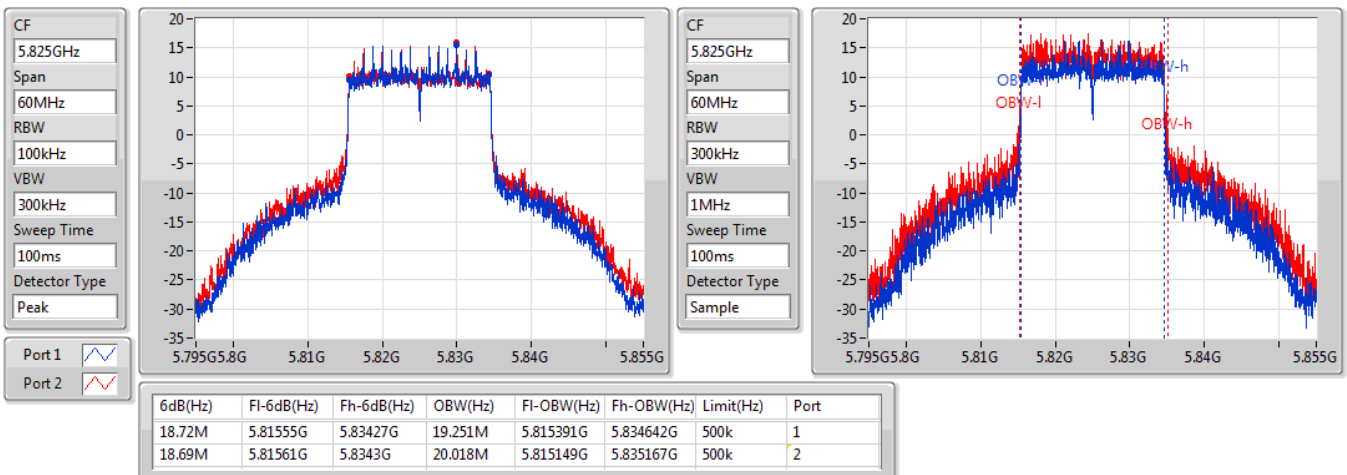


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5785MHz

05/07/2019

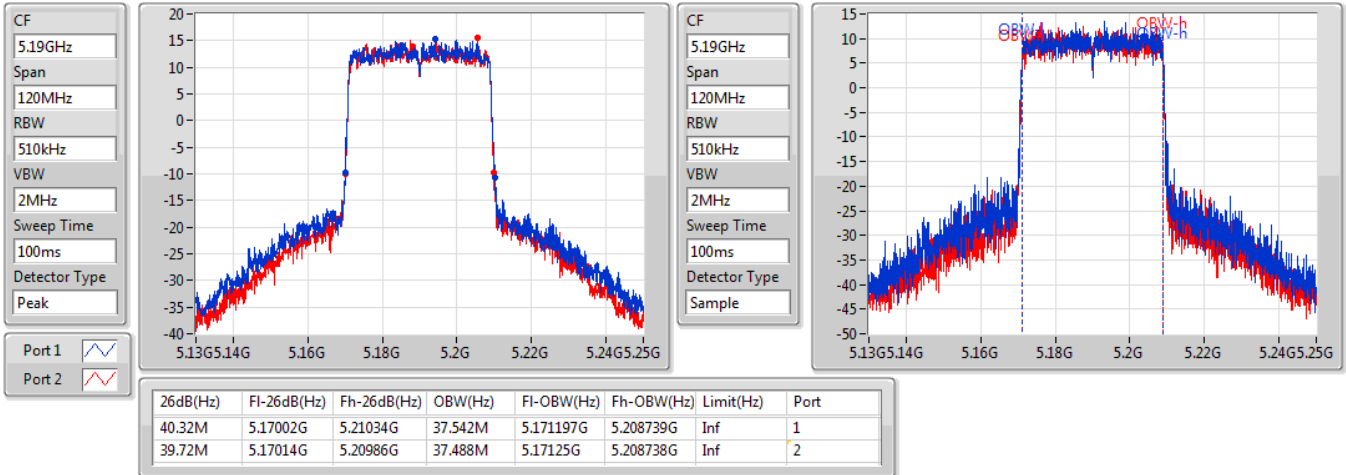

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5825MHz

05/07/2019

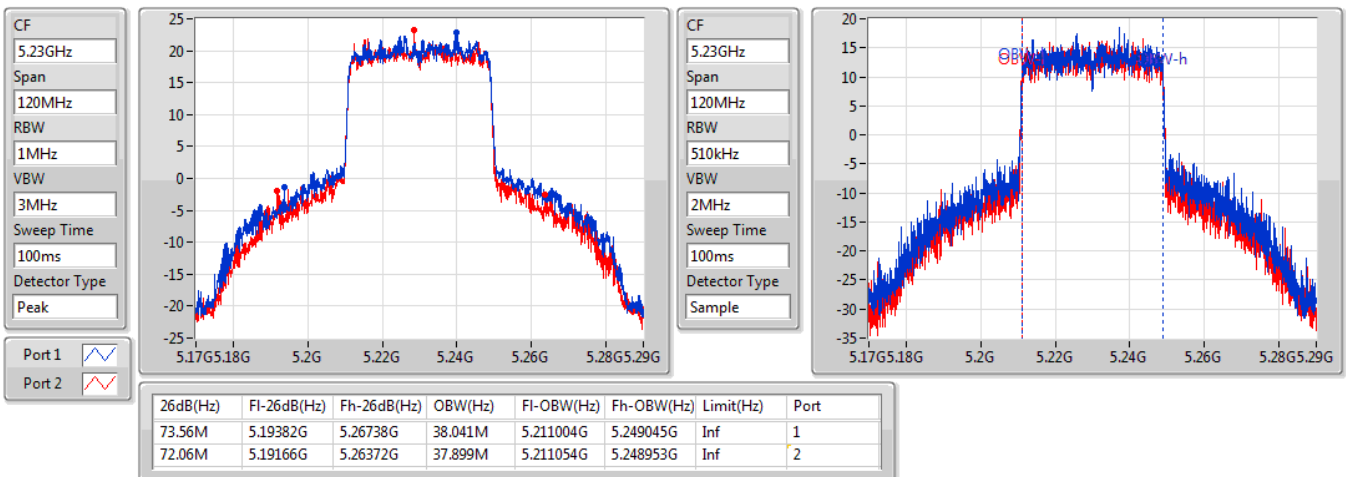


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5190MHz

05/07/2019

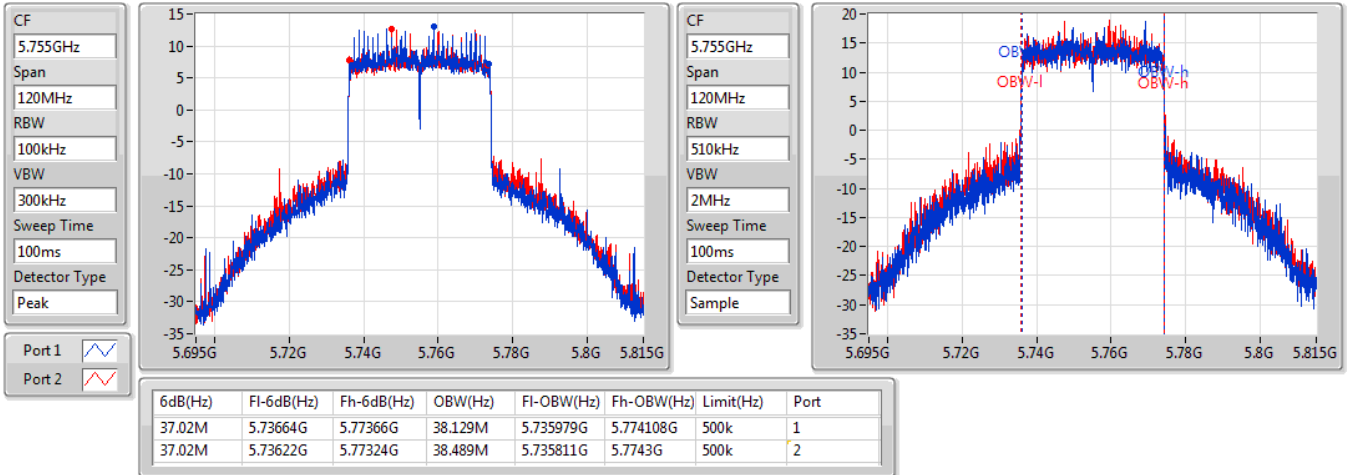

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5230MHz

05/07/2019

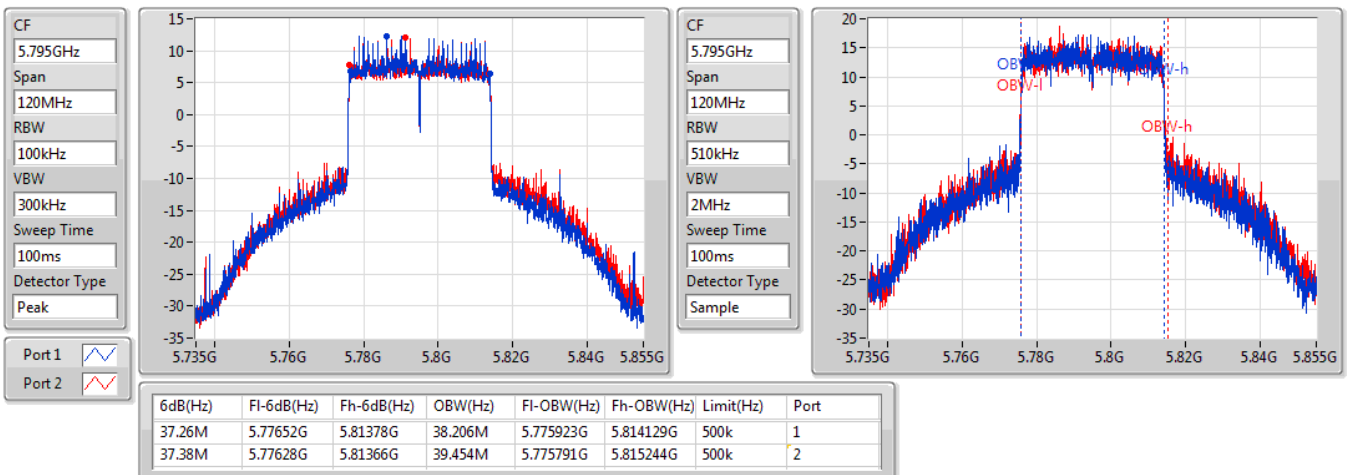


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5755MHz

05/07/2019

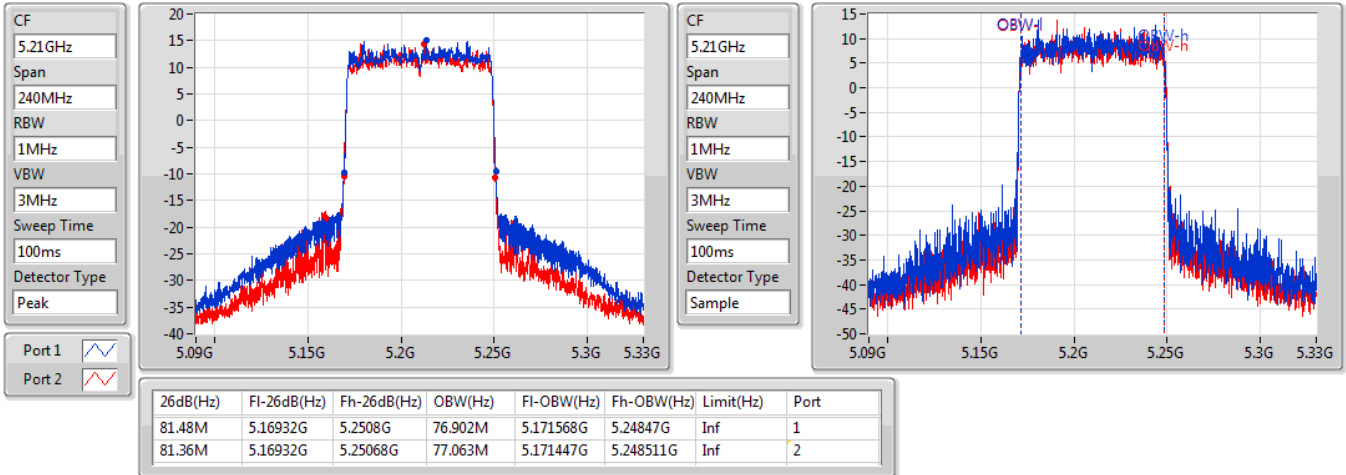

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5795MHz

05/07/2019

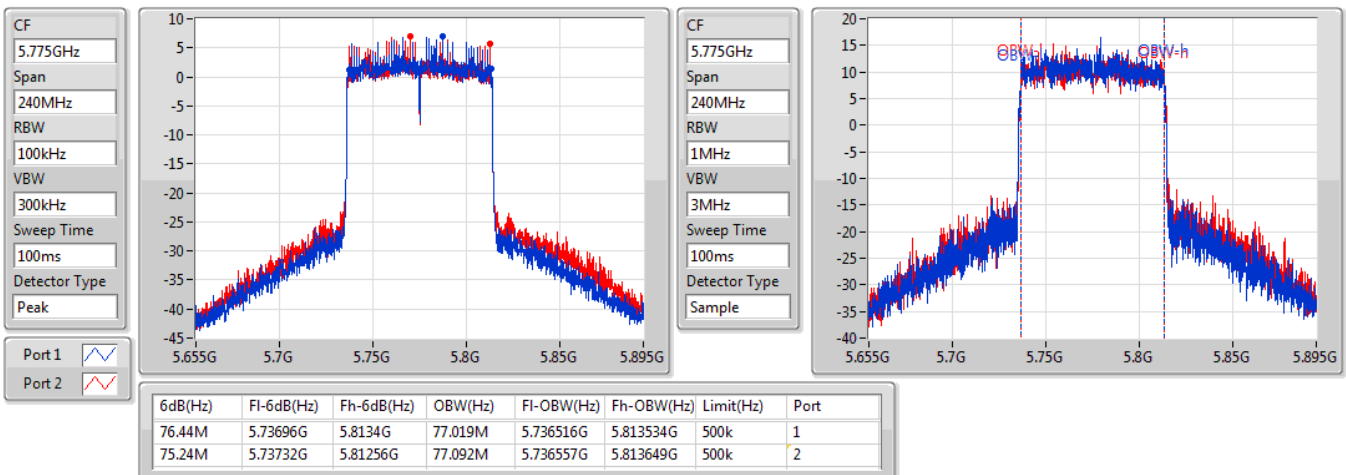


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5210MHz

05/07/2019

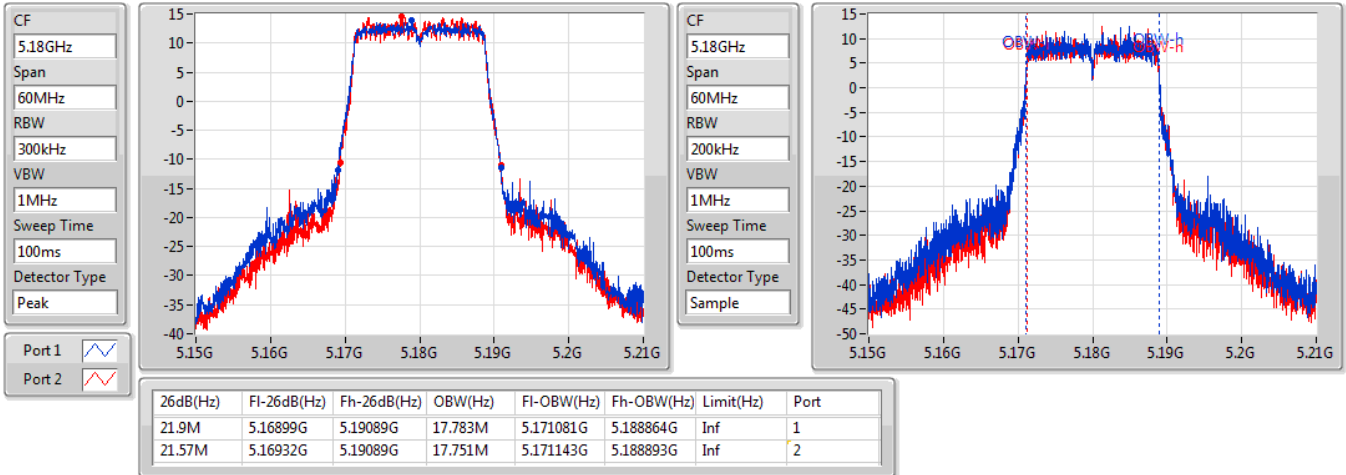

802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5775MHz

05/07/2019

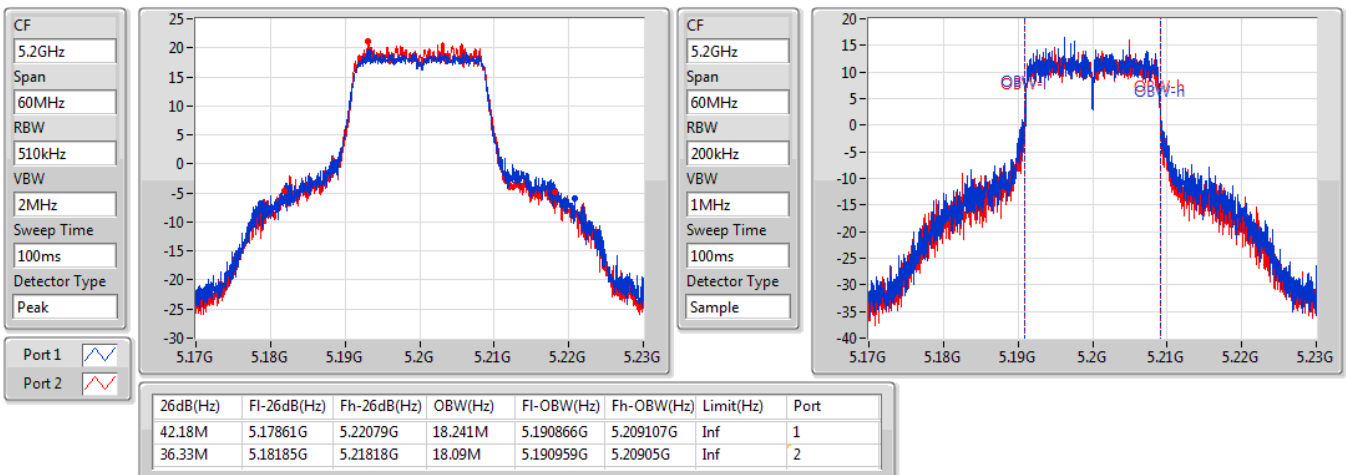


802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5180MHz

06/07/2019

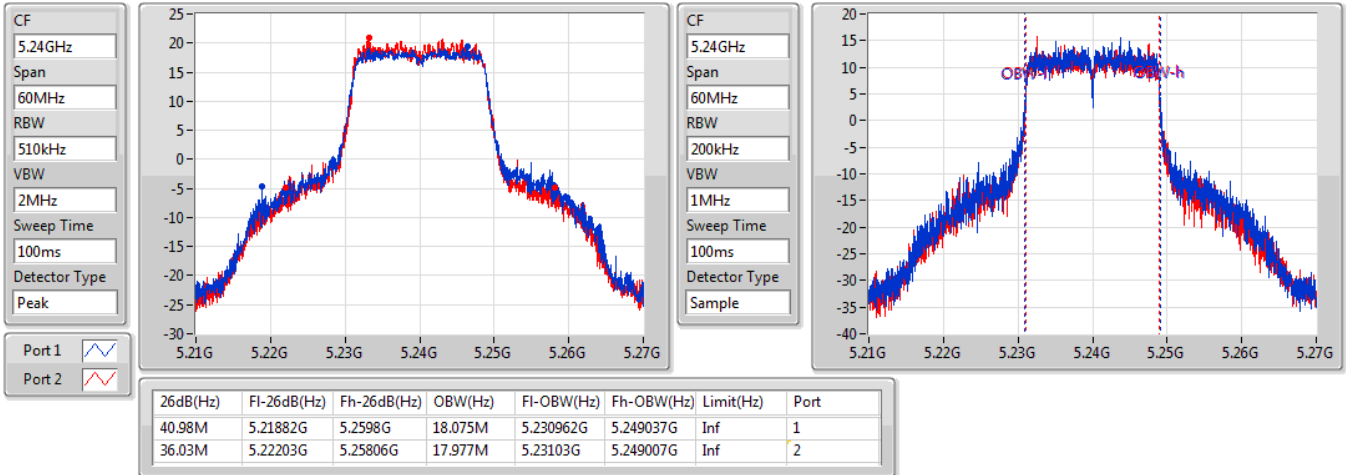

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5200MHz

06/07/2019

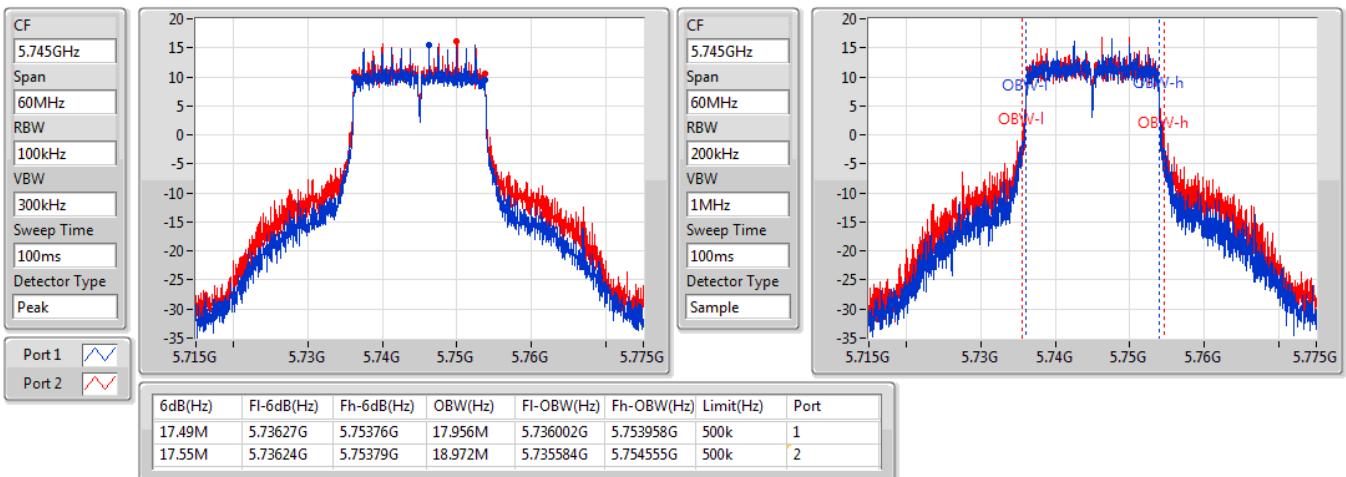


802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5240MHz

06/07/2019

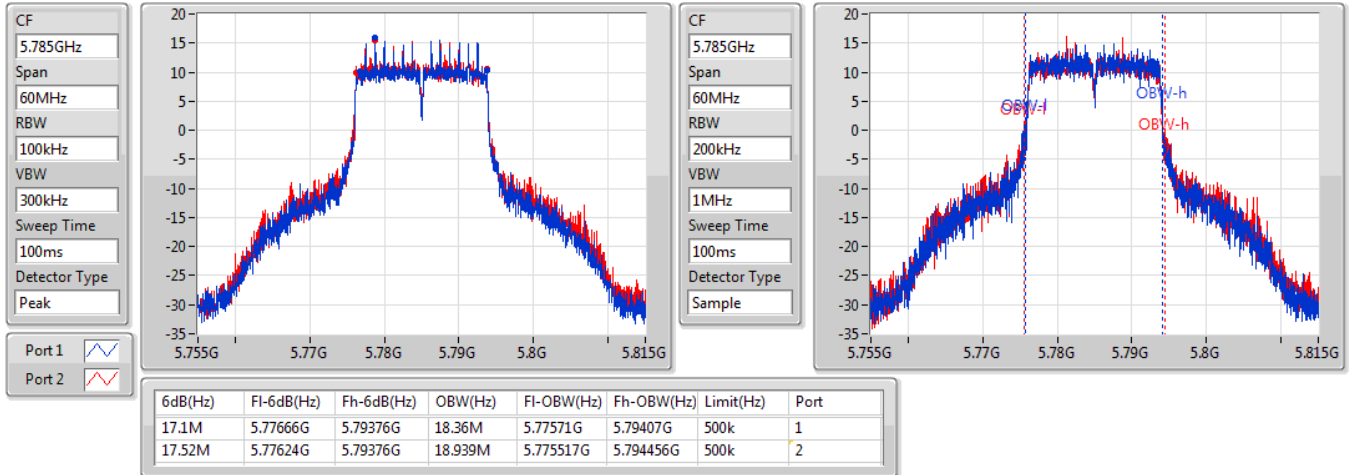

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5745MHz

06/07/2019

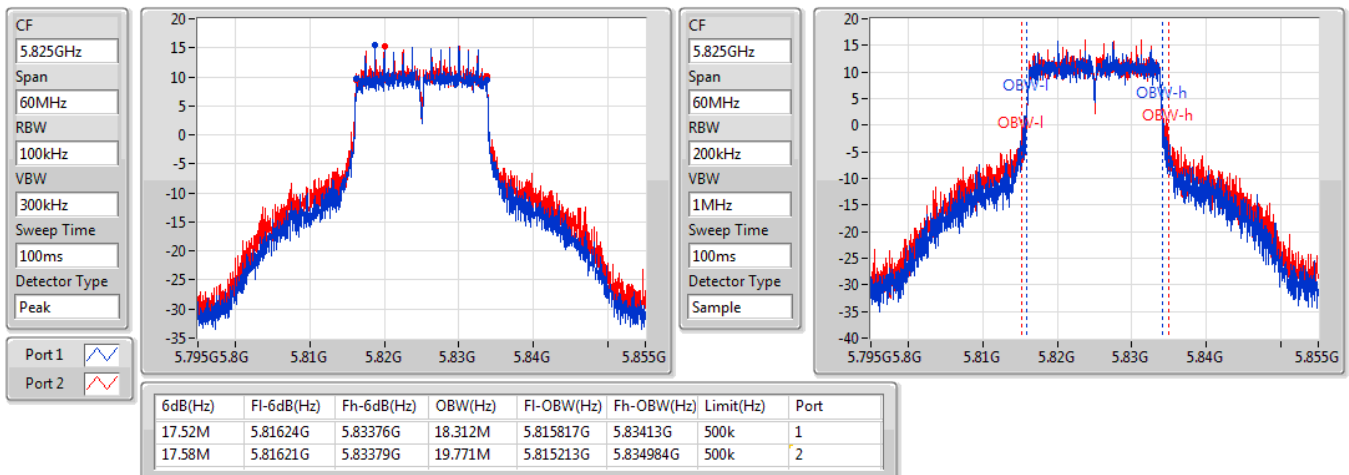


802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5785MHz

06/07/2019

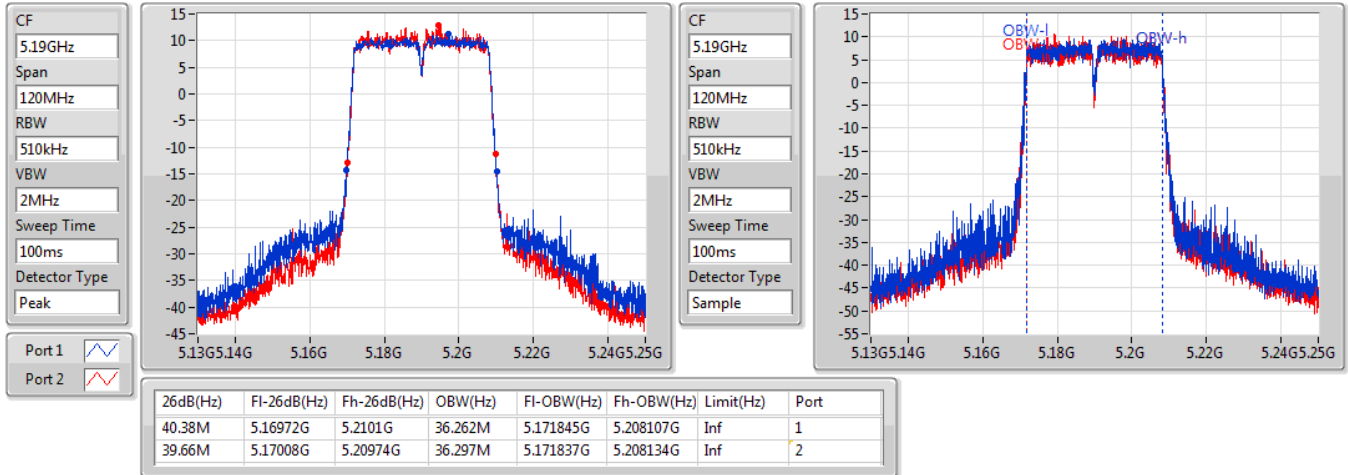

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5825MHz

06/07/2019

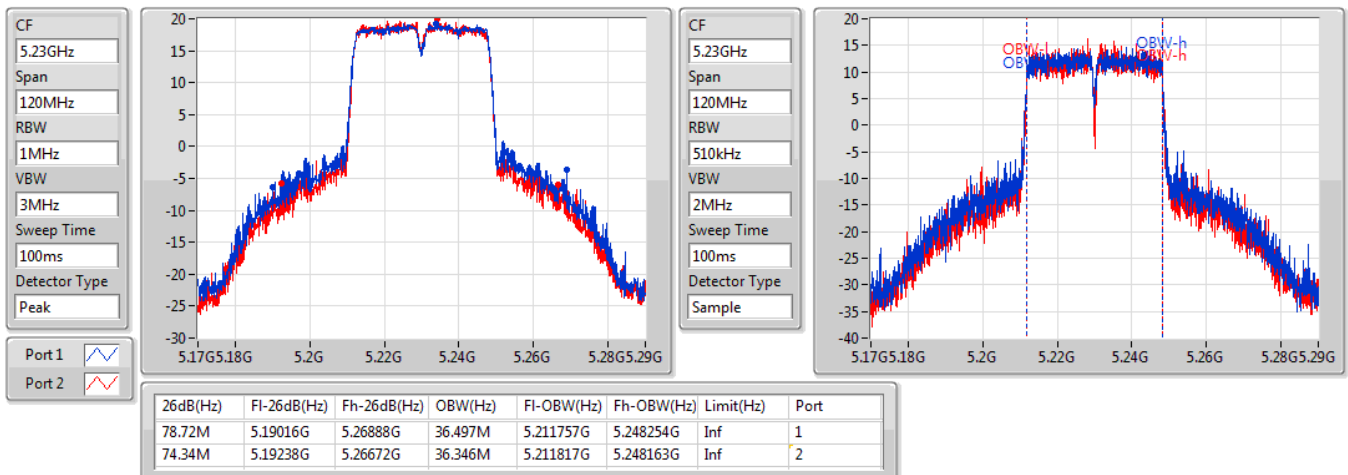


802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
5190MHz

06/07/2019

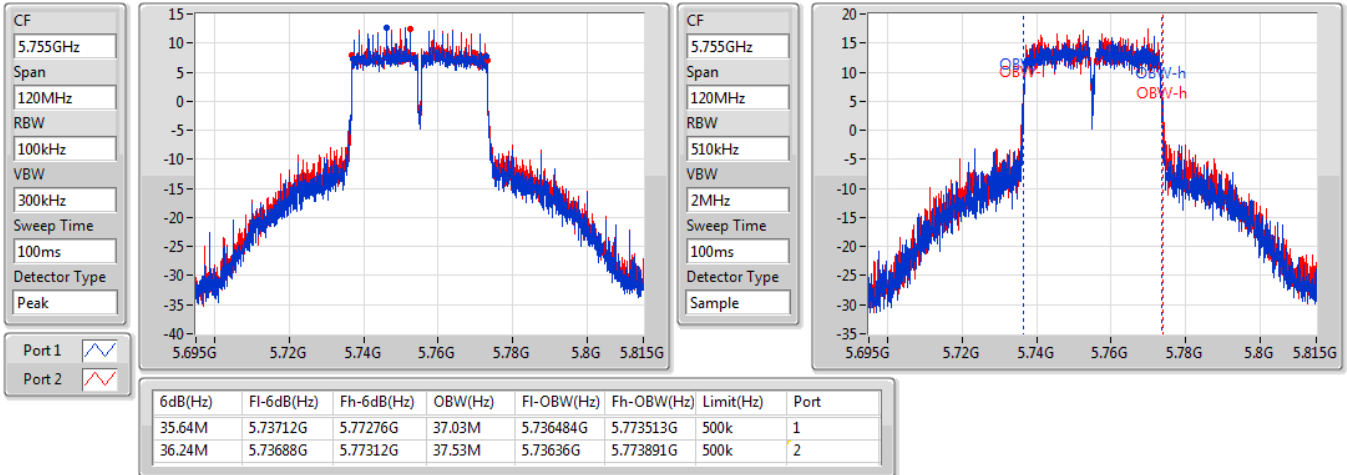

802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
5230MHz

06/07/2019

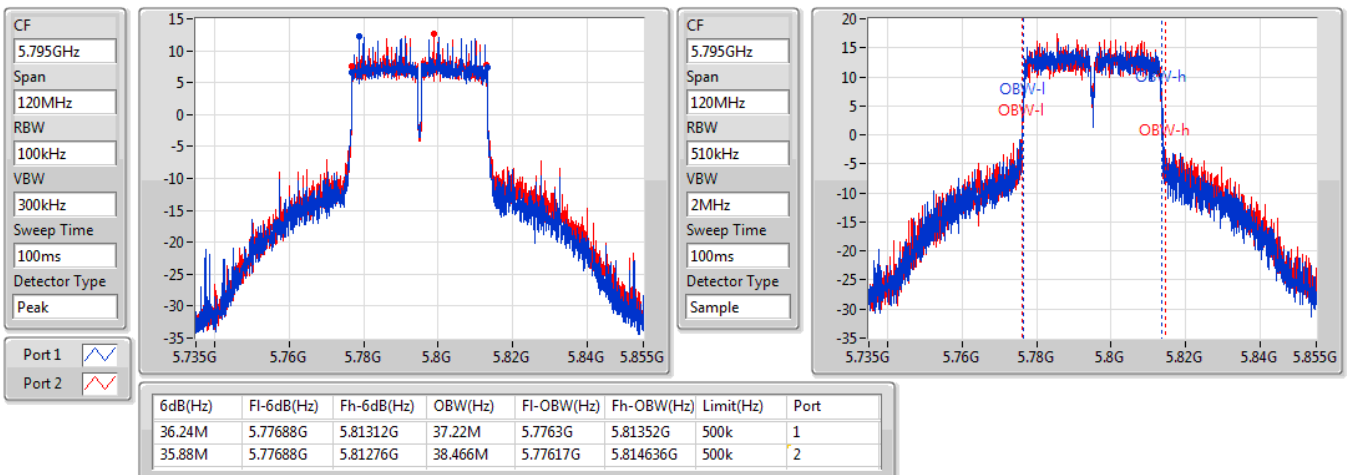


802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
5755MHz

06/07/2019

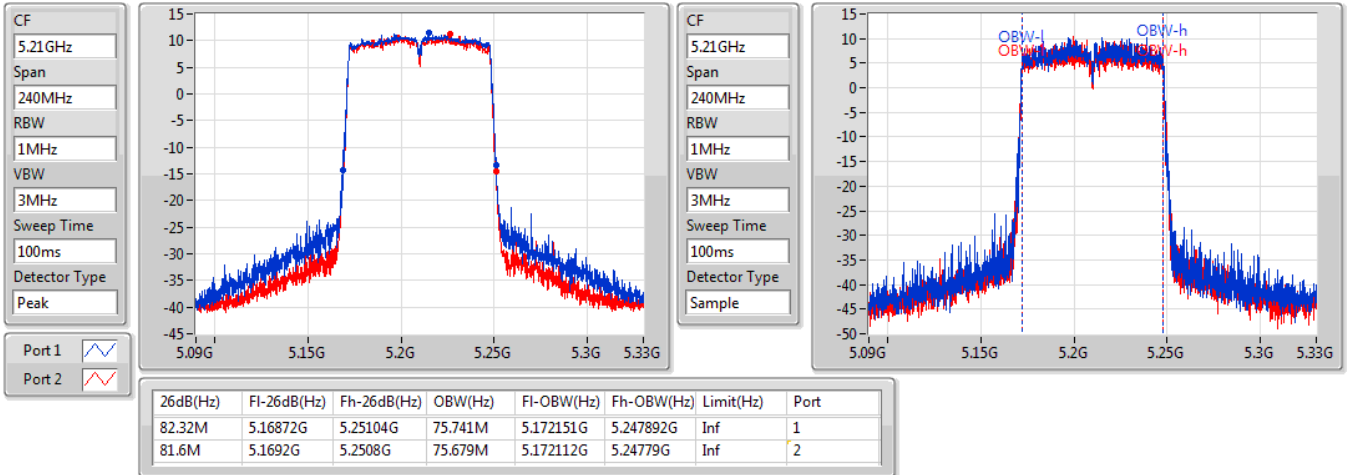

802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
5795MHz

06/07/2019

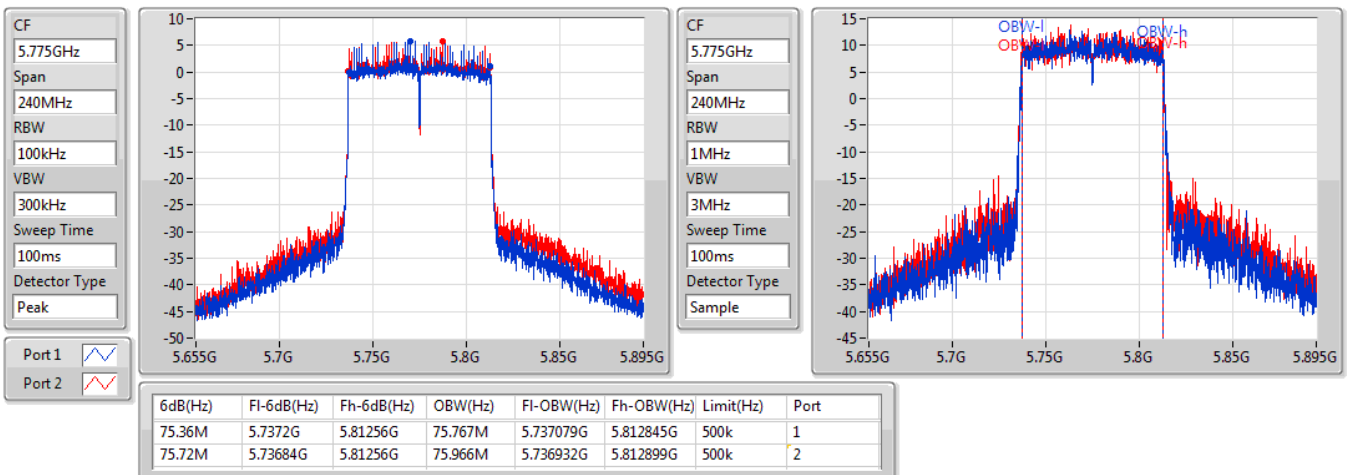


802.11ac VHT80-BF_Nss1,(MCS0)_2TX
EBW
5210MHz

06/07/2019

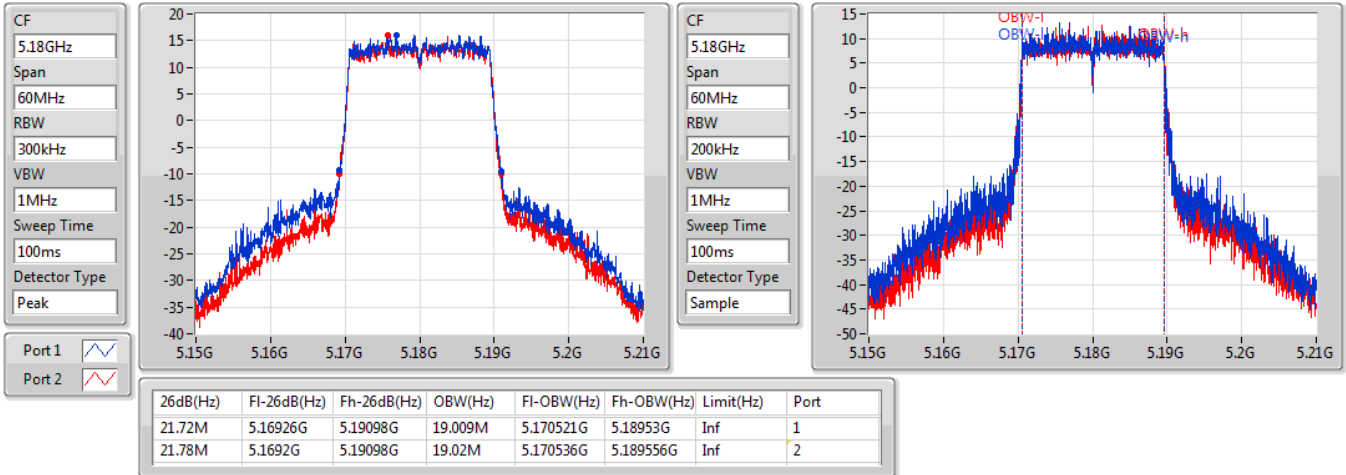

802.11ac VHT80-BF_Nss1,(MCS0)_2TX
EBW
5775MHz

06/07/2019

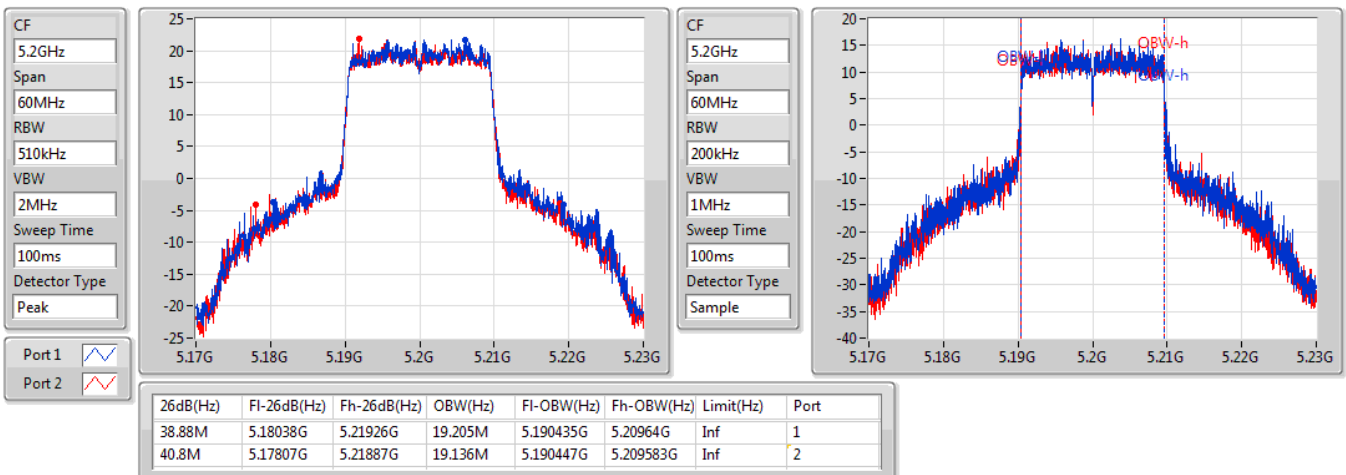


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5180MHz

05/07/2019

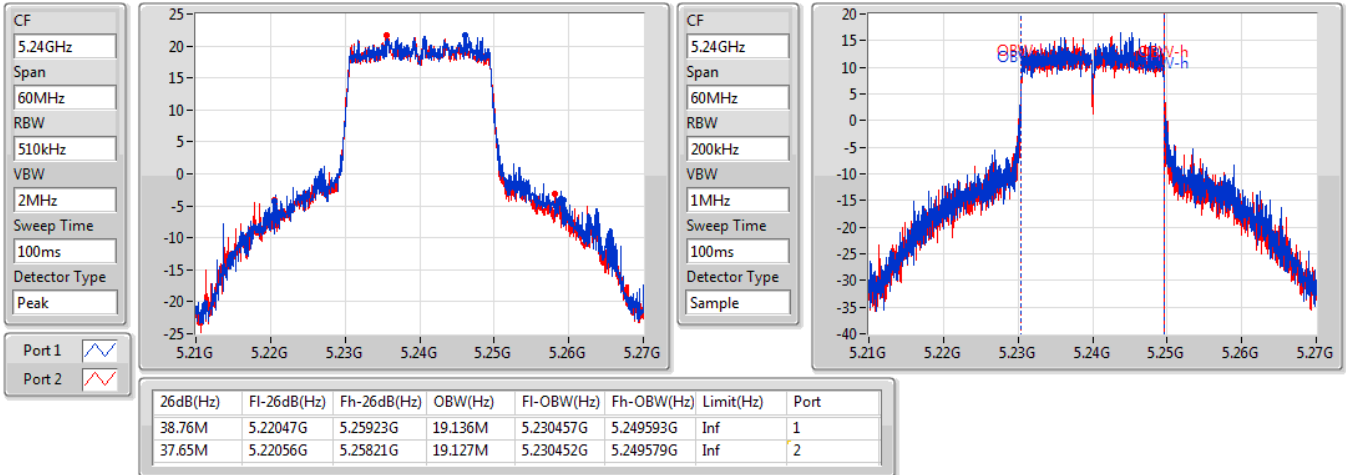

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5200MHz

05/07/2019

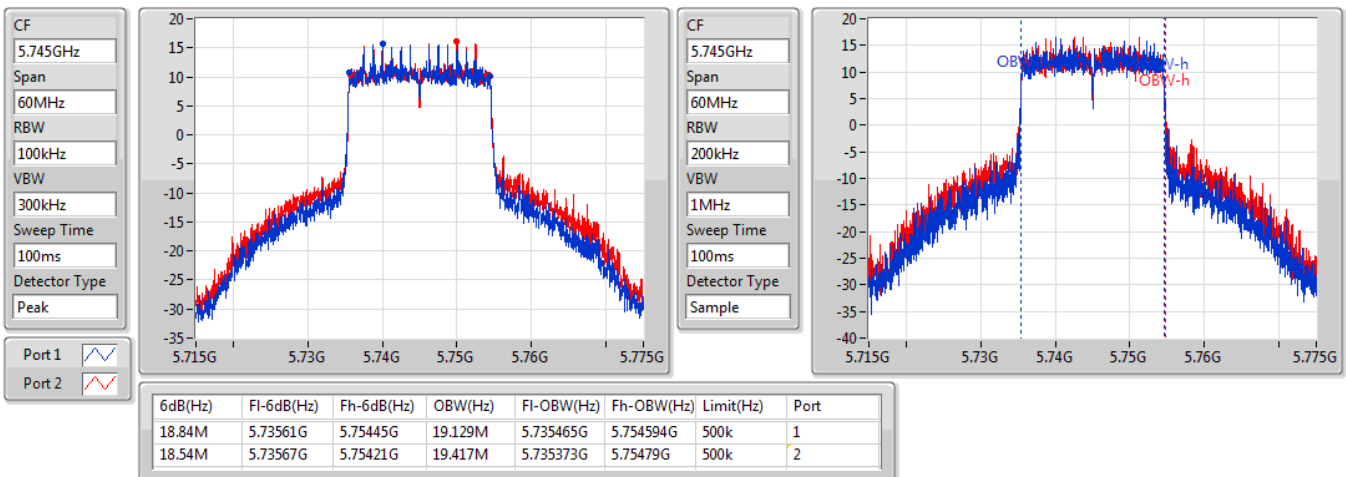


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5240MHz

05/07/2019

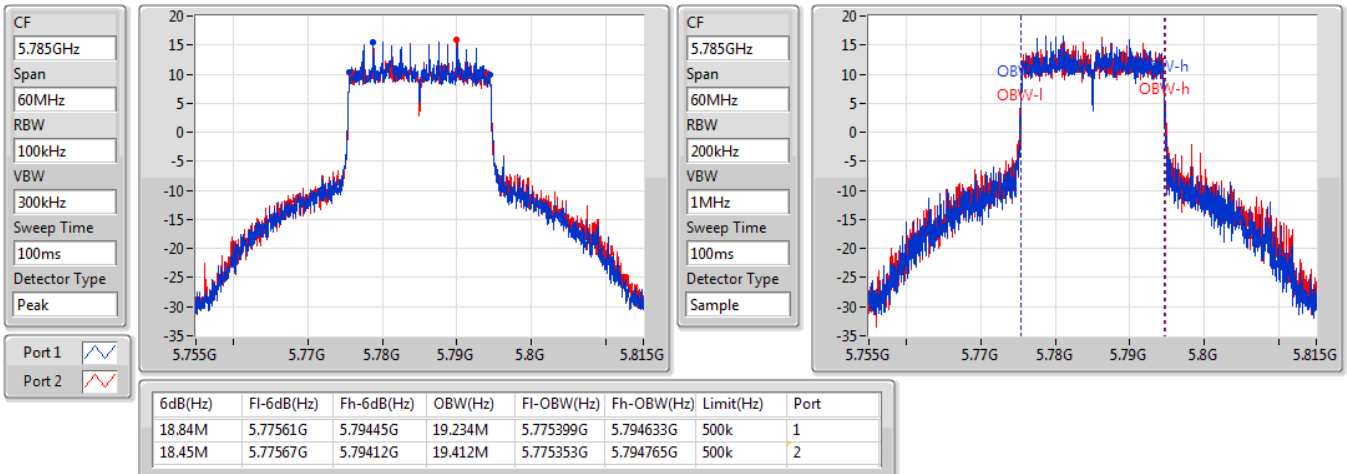

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5745MHz

05/07/2019

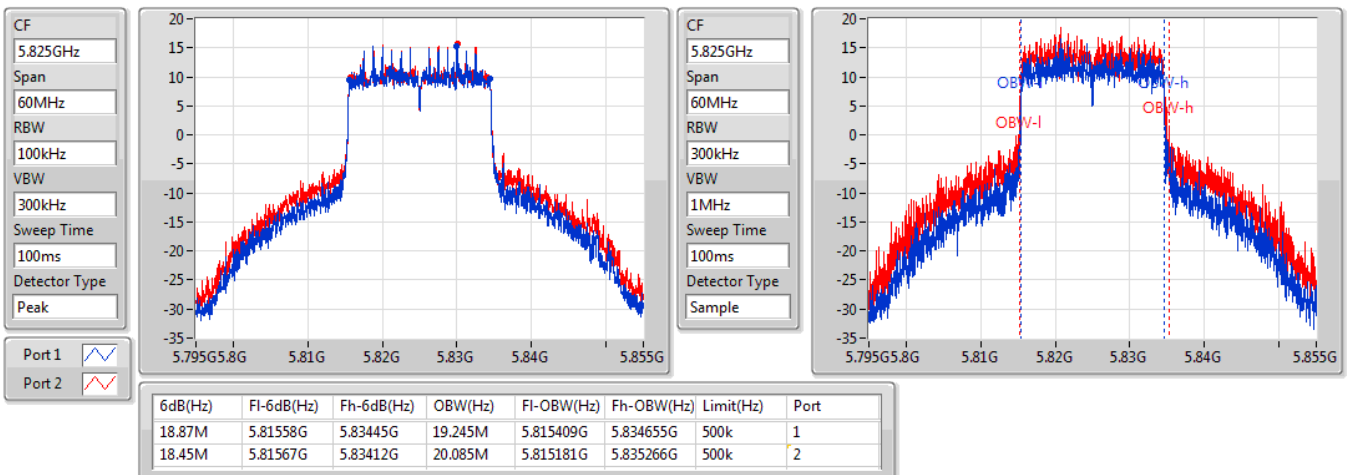


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5785MHz

05/07/2019

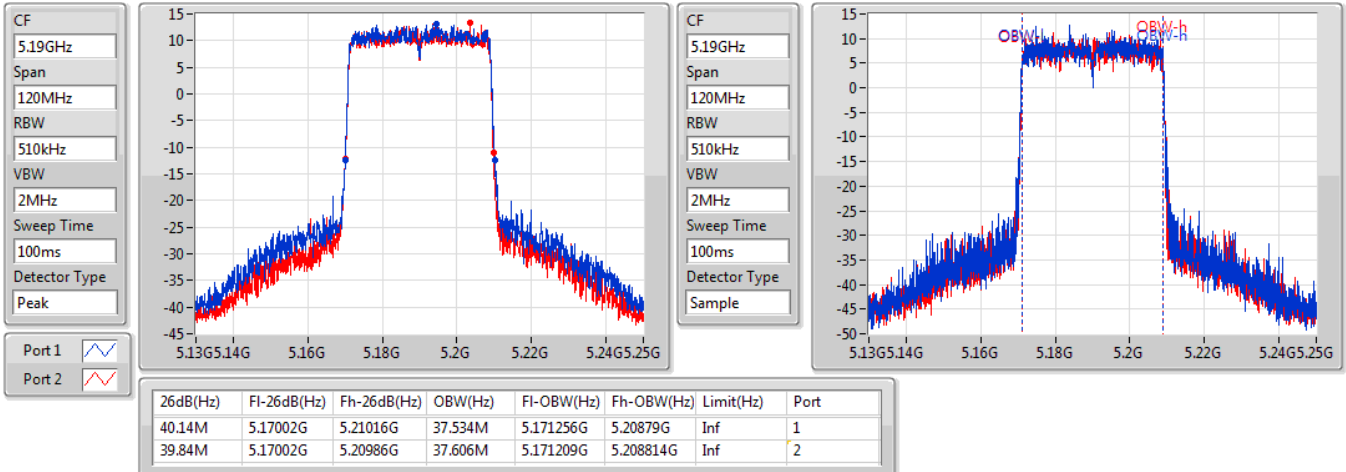

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5825MHz

05/07/2019

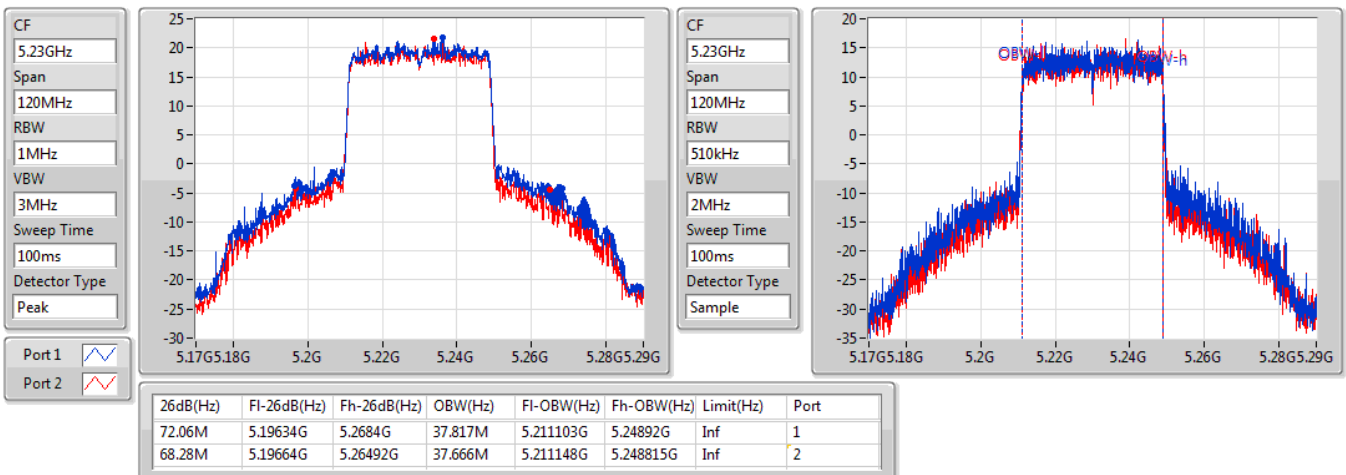


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5190MHz

05/07/2019

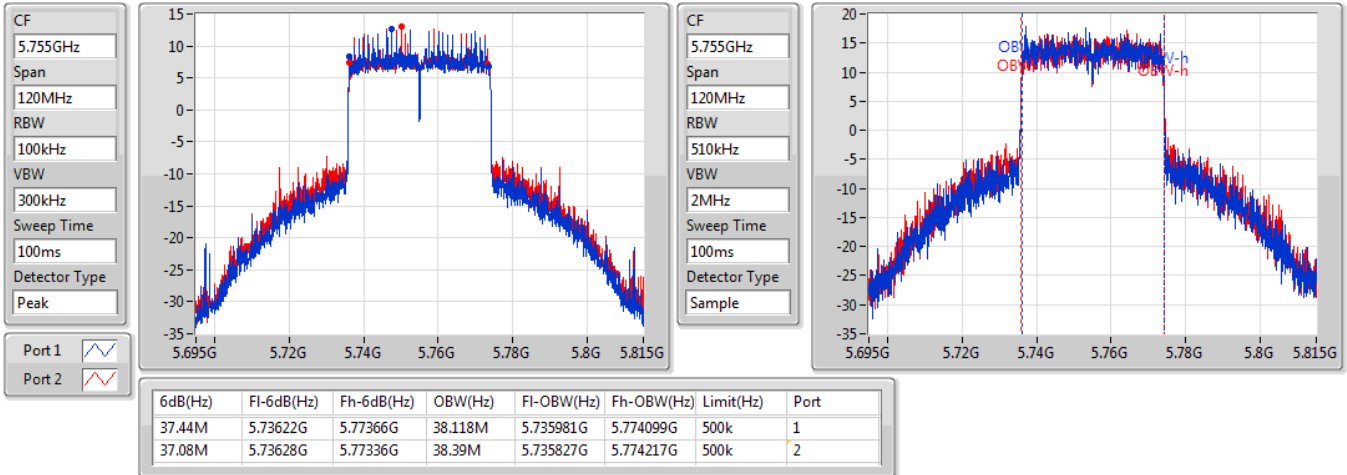

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5230MHz

05/07/2019

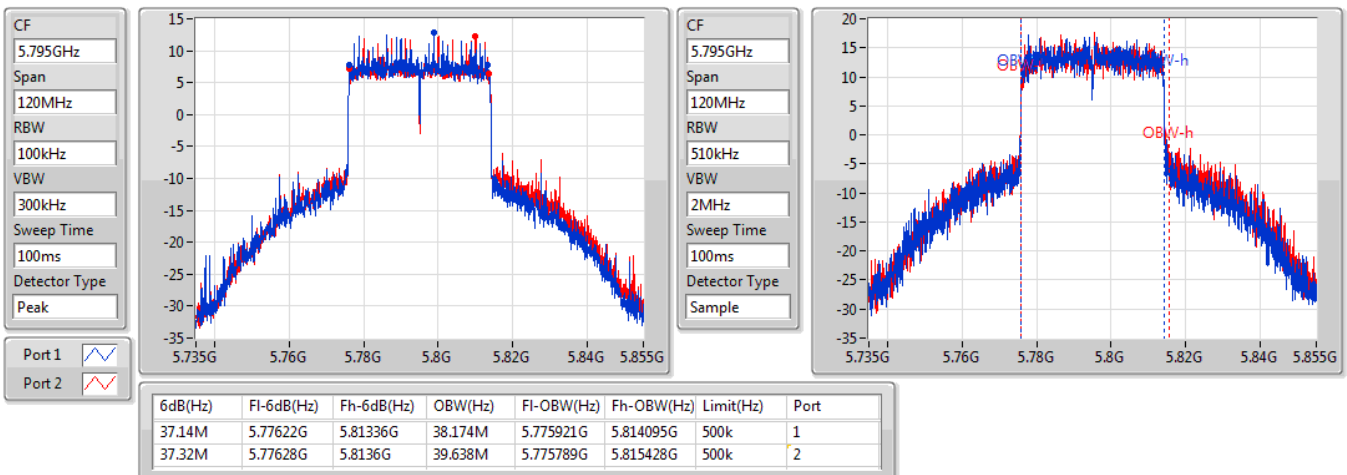


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5755MHz

05/07/2019

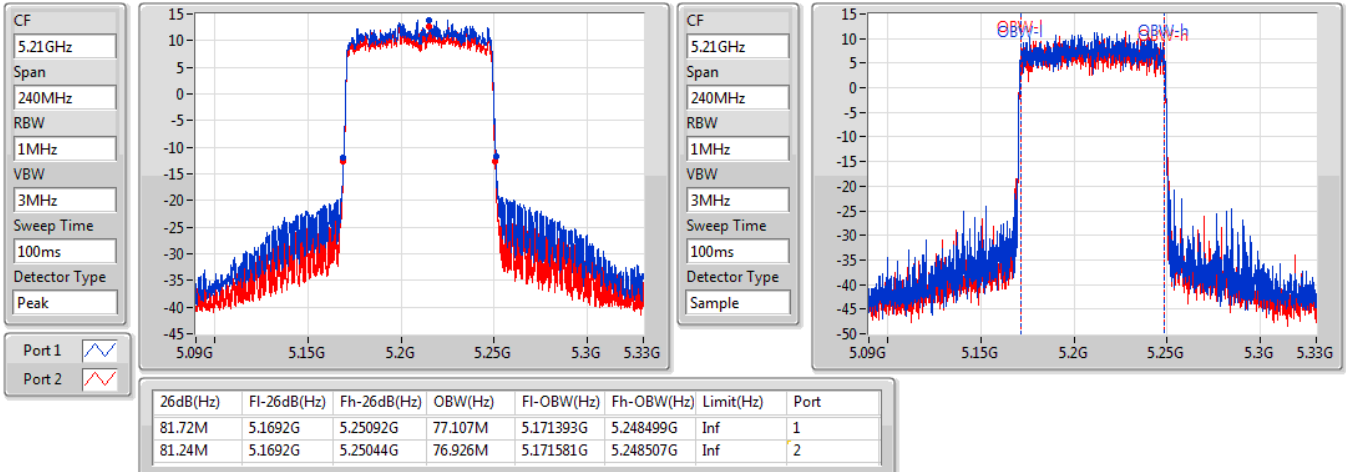

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5795MHz

05/07/2019

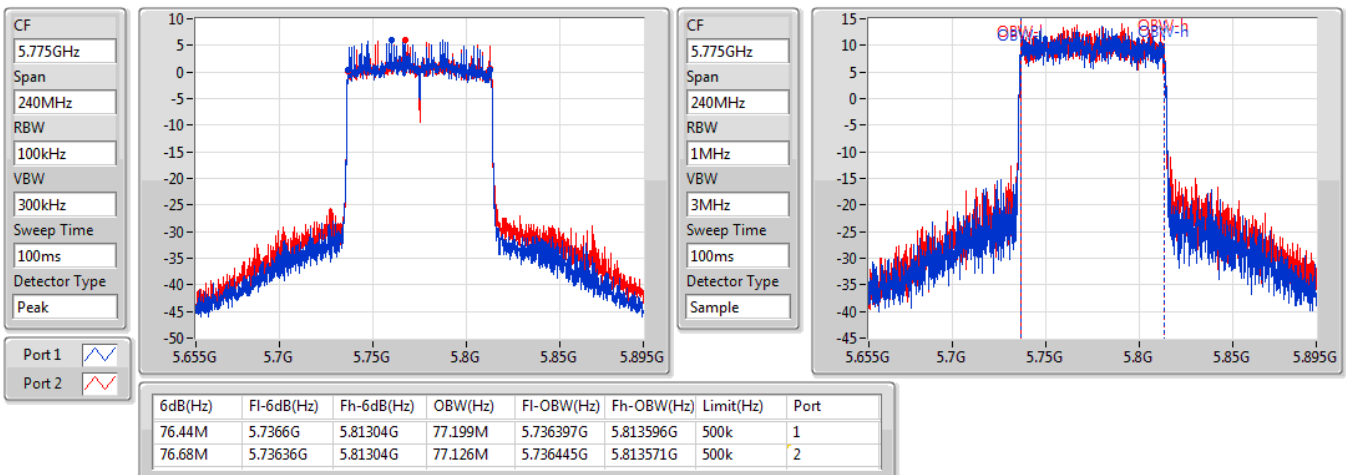


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
5210MHz

05/07/2019


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
5775MHz

05/07/2019





Average Power Result

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	29.35	0.86099
802.11ac VHT20_Nss2,(MCS0)_2TX	29.43	0.87700
802.11ac VHT40_Nss2,(MCS0)_2TX	29.32	0.85507
802.11ac VHT80_Nss2,(MCS0)_2TX	24.26	0.26669
802.11ax HEW20_Nss2,(MCS0)_2TX	29.71	0.93541
802.11ax HEW40_Nss2,(MCS0)_2TX	29.53	0.89743
802.11ax HEW80_Nss2,(MCS0)_2TX	24.62	0.28973
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	29.47	0.88512
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	28.77	0.75336
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	23.43	0.22029
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	29.72	0.93756
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	28.87	0.77090
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	23.68	0.23335
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	29.48	0.88716
802.11ac VHT20_Nss2,(MCS0)_2TX	29.54	0.89950
802.11ac VHT40_Nss2,(MCS0)_2TX	29.68	0.92897
802.11ac VHT80_Nss2,(MCS0)_2TX	26.64	0.46132
802.11ax HEW20_Nss2,(MCS0)_2TX	29.85	0.96605
802.11ax HEW40_Nss2,(MCS0)_2TX	29.93	0.98401
802.11ax HEW80_Nss2,(MCS0)_2TX	26.97	0.49774
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	29.49	0.88920
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	29.77	0.94842
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	25.91	0.38994
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	29.81	0.95719
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	29.94	0.98628
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	26.26	0.42267



Average Power Result

Appendix C

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	1.98	23.70	23.71	26.72	30.00
5200MHz	Pass	1.98	26.59	26.08	29.35	30.00
5240MHz	Pass	1.98	26.49	26.06	29.29	30.00
5745MHz	Pass	1.98	26.34	26.52	29.44	30.00
5785MHz	Pass	1.98	26.41	26.52	29.48	30.00
5825MHz	Pass	1.98	26.15	26.47	29.32	30.00
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	1.98	23.20	22.89	26.06	30.00
5200MHz	Pass	1.98	26.50	26.34	29.43	30.00
5240MHz	Pass	1.98	26.40	26.00	29.21	30.00
5745MHz	Pass	1.98	26.49	26.57	29.54	30.00
5785MHz	Pass	1.98	26.41	26.48	29.46	30.00
5825MHz	Pass	1.98	26.05	26.52	29.30	30.00
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	1.98	22.50	22.02	25.28	30.00
5230MHz	Pass	1.98	26.55	26.05	29.32	30.00
5755MHz	Pass	1.98	26.55	26.79	29.68	30.00
5795MHz	Pass	1.98	26.69	26.45	29.58	30.00
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	1.98	21.58	20.89	24.26	30.00
5775MHz	Pass	1.98	23.54	23.72	26.64	30.00
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	1.98	23.56	23.12	26.36	30.00
5200MHz	Pass	1.98	26.78	26.61	29.71	30.00
5240MHz	Pass	1.98	26.63	26.33	29.49	30.00
5745MHz	Pass	1.98	26.73	26.94	29.85	30.00
5785MHz	Pass	1.98	26.53	26.72	29.64	30.00
5825MHz	Pass	1.98	26.38	26.71	29.56	30.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	1.98	22.87	22.23	25.57	30.00
5230MHz	Pass	1.98	26.78	26.25	29.53	30.00
5755MHz	Pass	1.98	26.86	26.98	29.93	30.00
5795MHz	Pass	1.98	26.76	26.61	29.70	30.00
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	1.98	21.96	21.22	24.62	30.00
5775MHz	Pass	1.98	23.97	23.94	26.97	30.00
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	4.99	23.15	22.97	26.07	30.00
5200MHz	Pass	4.99	26.68	26.23	29.47	30.00
5240MHz	Pass	4.99	26.50	26.15	29.34	30.00
5745MHz	Pass	4.99	26.26	26.68	29.49	30.00
5785MHz	Pass	4.99	26.38	26.52	29.46	30.00
5825MHz	Pass	4.99	26.22	26.49	29.37	30.00



Average Power Result

Appendix C

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	4.99	21.10	20.72	23.92	30.00
5230MHz	Pass	4.99	26.02	25.49	28.77	30.00
5755MHz	Pass	4.99	26.75	26.77	29.77	30.00
5795MHz	Pass	4.99	26.59	26.60	29.61	30.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	4.99	20.89	19.90	23.43	30.00
5775MHz	Pass	4.99	22.86	22.94	25.91	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	4.99	23.43	23.19	26.32	30.00
5200MHz	Pass	4.99	26.79	26.63	29.72	30.00
5240MHz	Pass	4.99	26.59	26.40	29.51	30.00
5745MHz	Pass	4.99	26.71	26.88	29.81	30.00
5785MHz	Pass	4.99	26.71	26.79	29.76	30.00
5825MHz	Pass	4.99	26.44	26.68	29.57	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	4.99	21.26	20.92	24.10	30.00
5230MHz	Pass	4.99	26.11	25.59	28.87	30.00
5755MHz	Pass	4.99	26.90	26.95	29.94	30.00
5795MHz	Pass	4.99	26.63	26.64	29.65	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	4.99	21.07	20.23	23.68	30.00
5775MHz	Pass	4.99	23.08	23.41	26.26	30.00

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

**Summary**

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	15.51
802.11ac VHT20_Nss2,(MCS0)_2TX	15.13
802.11ac VHT40_Nss2,(MCS0)_2TX	12.73
802.11ac VHT80_Nss2,(MCS0)_2TX	4.86
802.11ax HEW20_Nss2,(MCS0)_2TX	15.03
802.11ax HEW40_Nss2,(MCS0)_2TX	12.70
802.11ax HEW80_Nss2,(MCS0)_2TX	5.07
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	15.12
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	12.30
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	3.93
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	14.54
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	12.26
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	4.03
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	13.64
802.11ac VHT20_Nss2,(MCS0)_2TX	13.19
802.11ac VHT40_Nss2,(MCS0)_2TX	11.15
802.11ac VHT80_Nss2,(MCS0)_2TX	5.86
802.11ax HEW20_Nss2,(MCS0)_2TX	13.01
802.11ax HEW40_Nss2,(MCS0)_2TX	11.12
802.11ax HEW80_Nss2,(MCS0)_2TX	5.88
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	13.13
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	11.31
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	5.10
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	13.25
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	11.15
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	5.19

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	4.99	10.54	10.45	13.43	17.00
5200MHz	Pass	4.99	12.56	12.53	15.51	17.00
5240MHz	Pass	4.99	12.49	12.31	15.34	17.00
5745MHz	Pass	4.99	10.56	10.65	13.58	30.00
5785MHz	Pass	4.99	10.52	10.61	13.48	30.00
5825MHz	Pass	4.99	10.58	10.85	13.64	30.00
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	1.98	9.63	9.35	12.46	17.00
5200MHz	Pass	1.98	12.33	12.15	15.13	17.00
5240MHz	Pass	1.98	12.30	11.93	15.03	17.00
5745MHz	Pass	1.98	9.98	10.16	13.00	30.00
5785MHz	Pass	1.98	10.01	10.10	13.02	30.00
5825MHz	Pass	1.98	10.14	10.41	13.19	30.00
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	1.98	6.15	5.69	8.91	17.00
5230MHz	Pass	1.98	9.97	9.56	12.73	17.00
5755MHz	Pass	1.98	8.03	8.23	11.08	30.00
5795MHz	Pass	1.98	8.24	8.13	11.15	30.00
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	1.98	2.29	1.71	4.86	17.00
5775MHz	Pass	1.98	2.72	3.13	5.86	30.00
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	1.98	9.72	9.40	12.50	17.00
5200MHz	Pass	1.98	12.12	12.14	15.03	17.00
5240MHz	Pass	1.98	12.17	11.94	14.92	17.00
5745MHz	Pass	1.98	9.98	10.17	12.97	30.00
5785MHz	Pass	1.98	9.87	10.02	12.89	30.00
5825MHz	Pass	1.98	9.96	10.21	13.01	30.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	1.98	6.23	5.94	9.02	17.00
5230MHz	Pass	1.98	9.88	9.56	12.70	17.00
5755MHz	Pass	1.98	8.11	8.15	11.12	30.00
5795MHz	Pass	1.98	8.13	8.04	11.05	30.00
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	1.98	2.40	1.80	5.07	17.00
5775MHz	Pass	1.98	2.99	2.90	5.88	30.00
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	4.99	9.63	9.57	12.54	17.00
5200MHz	Pass	4.99	12.28	12.09	15.12	17.00
5240MHz	Pass	4.99	12.17	12.02	15.01	17.00
5745MHz	Pass	4.99	9.97	10.20	13.06	30.00
5785MHz	Pass	4.99	9.96	10.15	12.98	30.00
5825MHz	Pass	4.99	10.06	10.26	13.13	30.00



PSD Result

Appendix D

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	4.99	4.70	4.41	7.53	17.00
5230MHz	Pass	4.99	9.46	9.17	12.30	17.00
5755MHz	Pass	4.99	8.16	8.43	11.31	30.00
5795MHz	Pass	4.99	8.27	8.07	11.11	30.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	4.99	1.33	0.59	3.93	17.00
5775MHz	Pass	4.99	2.00	2.35	5.10	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	4.99	9.51	9.35	12.38	17.00
5200MHz	Pass	4.99	11.62	11.59	14.54	17.00
5240MHz	Pass	4.99	11.61	11.41	14.47	17.00
5745MHz	Pass	4.99	10.24	10.27	13.24	30.00
5785MHz	Pass	4.99	10.17	10.29	13.21	30.00
5825MHz	Pass	4.99	10.26	10.36	13.25	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	4.99	4.87	4.54	7.68	17.00
5230MHz	Pass	4.99	9.47	9.08	12.26	17.00
5755MHz	Pass	4.99	8.17	8.29	11.15	30.00
5795MHz	Pass	4.99	7.95	7.98	10.89	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	4.99	1.46	0.63	4.03	17.00
5775MHz	Pass	4.99	2.03	2.42	5.19	30.00

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

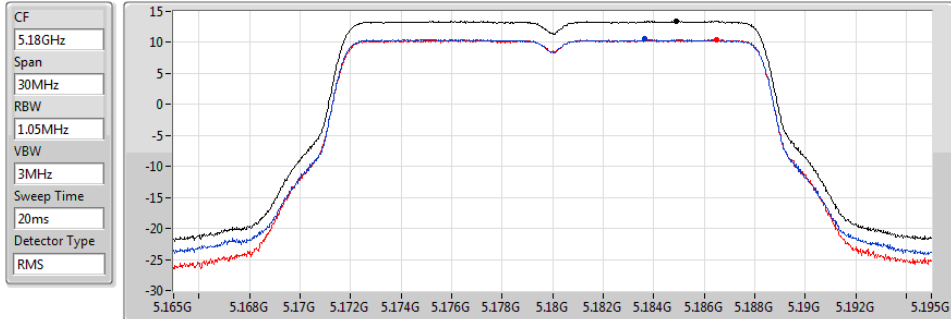
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

05/07/2019



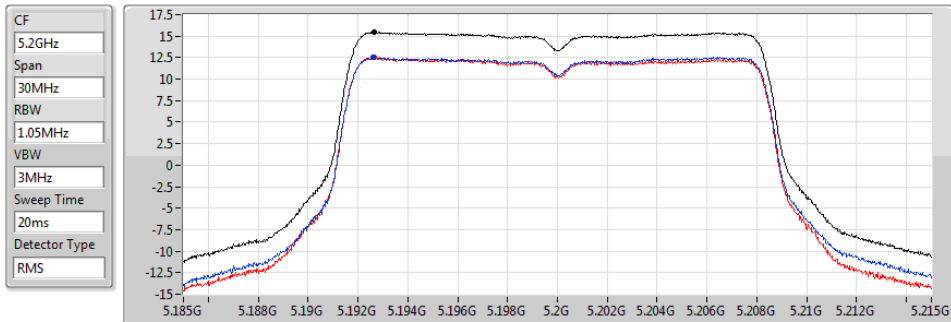
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.43	13.43	10.54	10.45

802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

05/07/2019



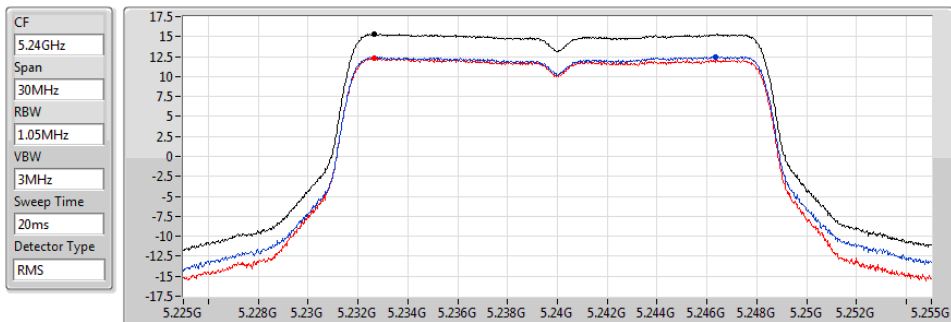
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.51	15.51	12.56	12.53

802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

05/07/2019



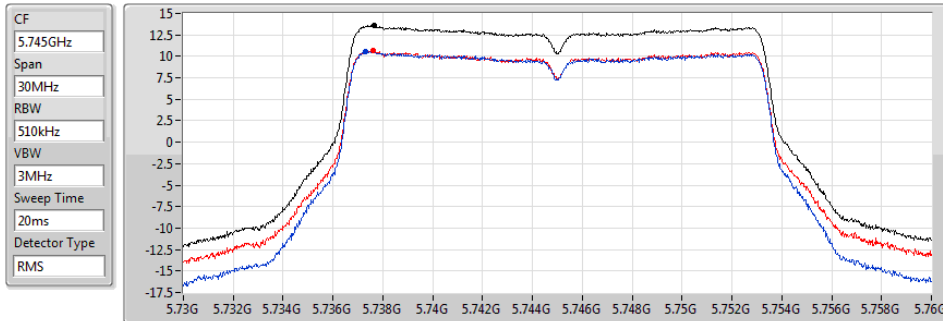
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.34	15.34	12.49	12.31

802.11a_Nss1,(6Mbps)_2TX

5745MHz

PSD

05/07/2019



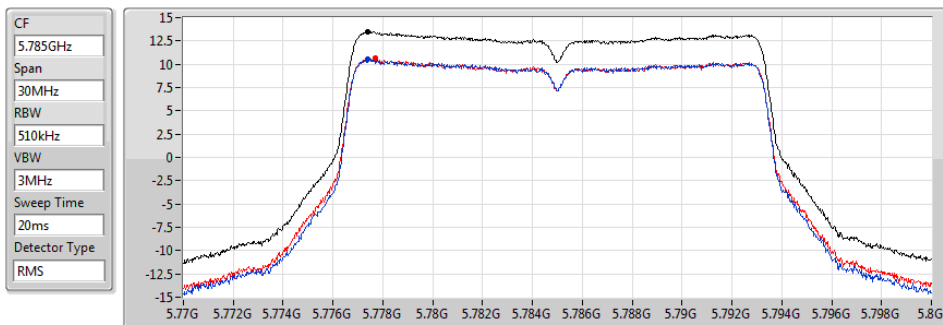
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.58	13.58	10.56	10.65

802.11a_Nss1,(6Mbps)_2TX

5785MHz

PSD

05/07/2019



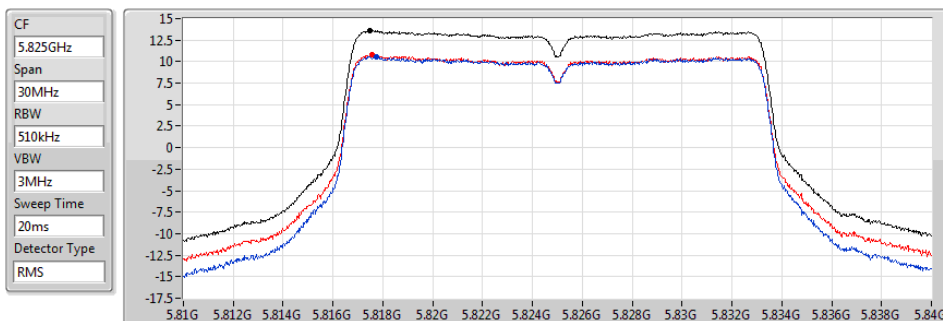
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.48	13.48	10.52	10.61

802.11a_Nss1,(6Mbps)_2TX

5825MHz

PSD

05/07/2019



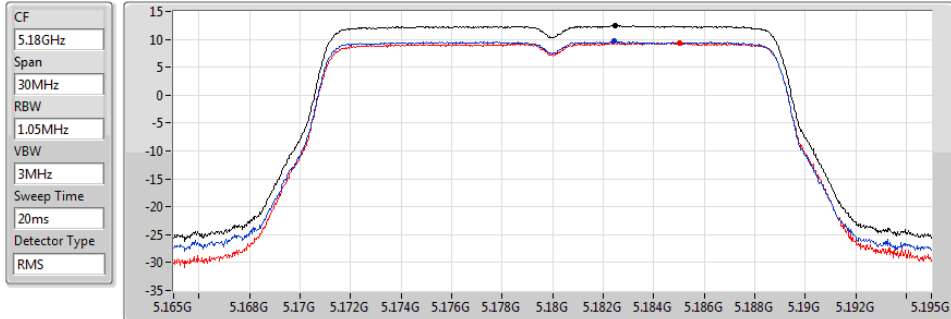
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.64	13.64	10.58	10.85

802.11ac VHT20_Nss2,(MCS0)_2TX

PSD

5180MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
12.46	12.46	9.63	9.35

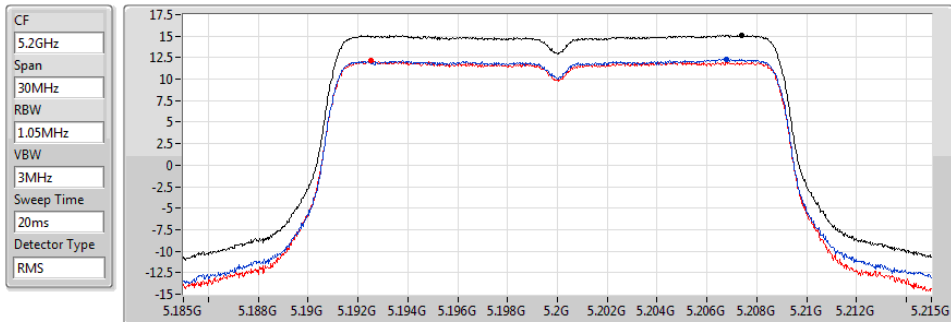
Sum
Port 1
Port 2

802.11ac VHT20_Nss2,(MCS0)_2TX

PSD

5200MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
15.13	15.13	12.33	12.15

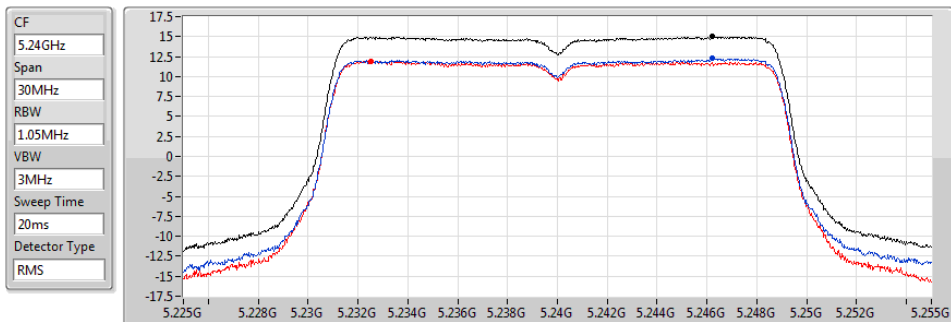
Sum
Port 1
Port 2

802.11ac VHT20_Nss2,(MCS0)_2TX

PSD

5240MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
15.03	15.03	12.30	11.93

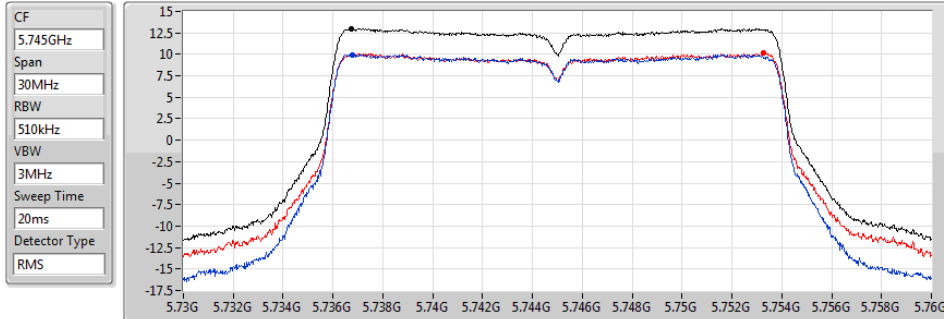
Sum
Port 1
Port 2

802.11ac VHT20_Nss2,(MCS0)_2TX

PSD

5745MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.00	13.00	9.98	10.16

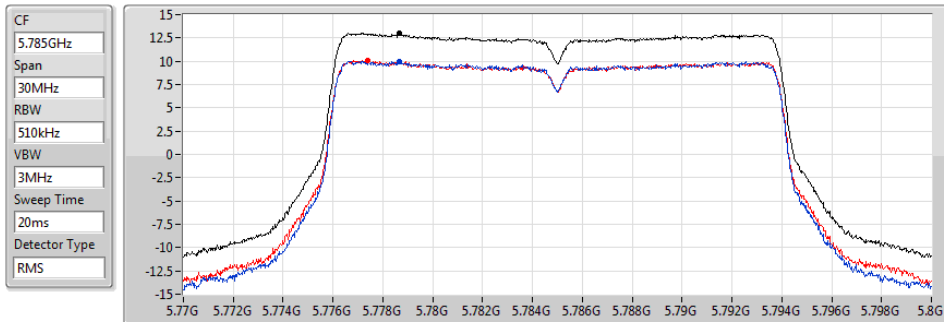
Sum
Port 1
Port 2

802.11ac VHT20_Nss2,(MCS0)_2TX

PSD

5785MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.02	13.02	10.01	10.10

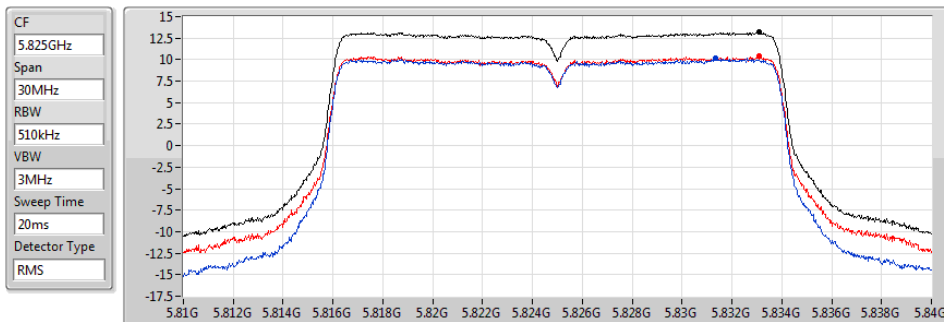
Sum
Port 1
Port 2

802.11ac VHT20_Nss2,(MCS0)_2TX

PSD

5825MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.19	13.19	10.14	10.41

Sum
Port 1
Port 2

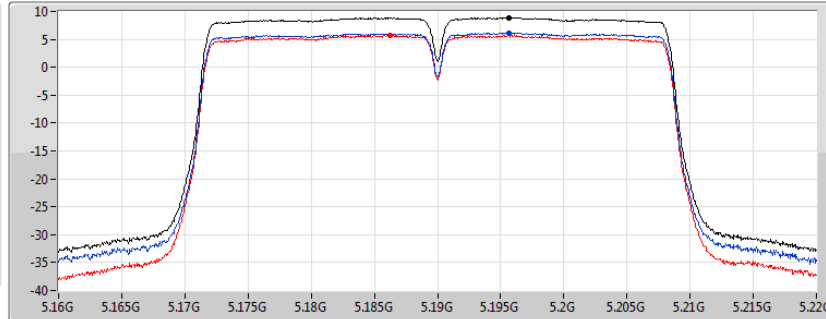
802.11ac VHT40_Nss2,(MCS0)_2TX

PSD

5190MHz

06/07/2019

CF
5.19GHz
Span
60MHz
RBW
1.05MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.91	8.91	6.15	5.69

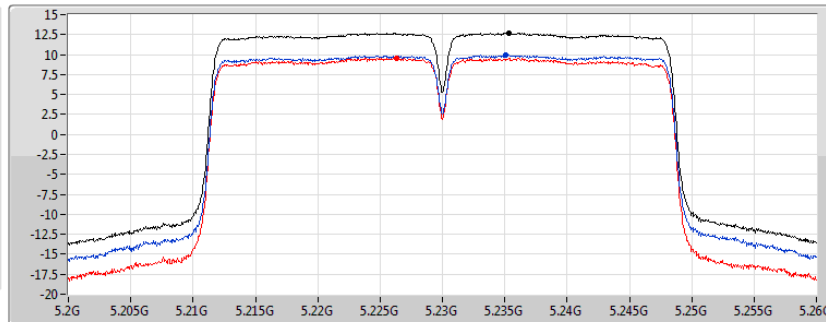
802.11ac VHT40_Nss2,(MCS0)_2TX

PSD

5230MHz

06/07/2019

CF
5.23GHz
Span
60MHz
RBW
1.05MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
12.73	12.73	9.97	9.56

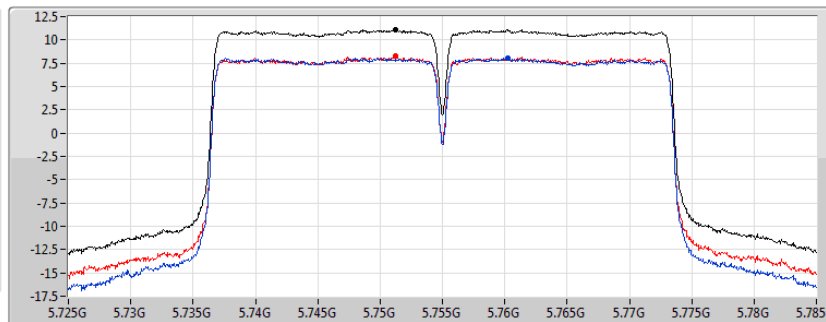
802.11ac VHT40_Nss2,(MCS0)_2TX

PSD

5755MHz

06/07/2019

CF
5.755GHz
Span
60MHz
RBW
510kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.08	11.08	8.03	8.23

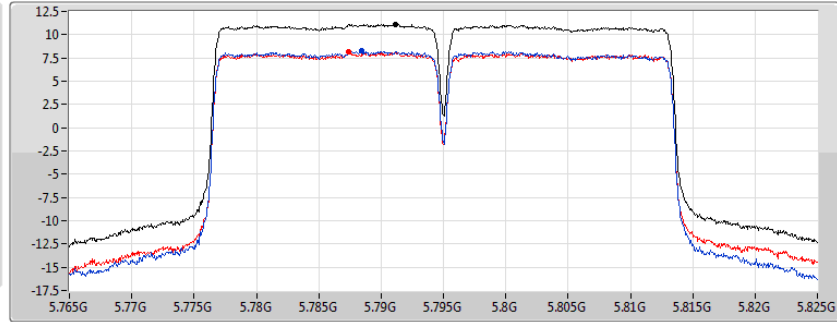
802.11ac VHT40_Nss2,(MCS0)_2TX

PSD

5795MHz

06/07/2019

CF
5.795GHz
Span
60MHz
RBW
510kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.15	11.15	8.24	8.13

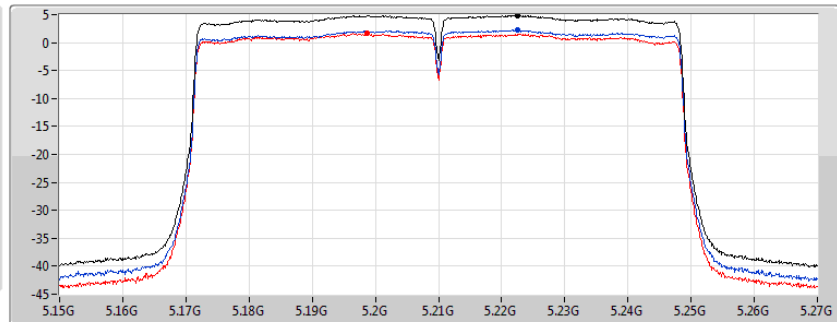
802.11ac VHT80_Nss2,(MCS0)_2TX

PSD

5210MHz

06/07/2019

CF
5.21GHz
Span
120MHz
RBW
1.05MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.86	4.86	2.29	1.71

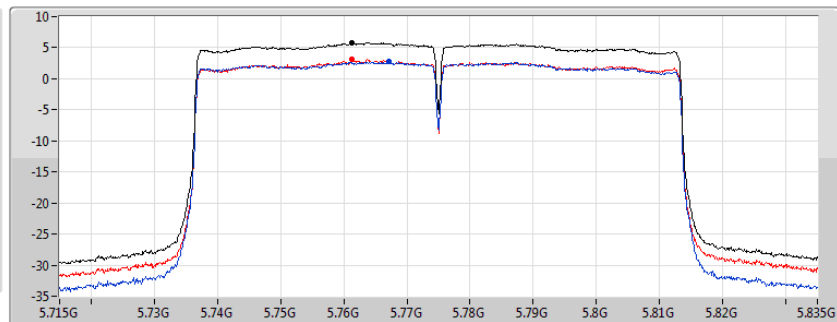
802.11ac VHT80_Nss2,(MCS0)_2TX

PSD

5775MHz

06/07/2019

CF
5.775GHz
Span
120MHz
RBW
510kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

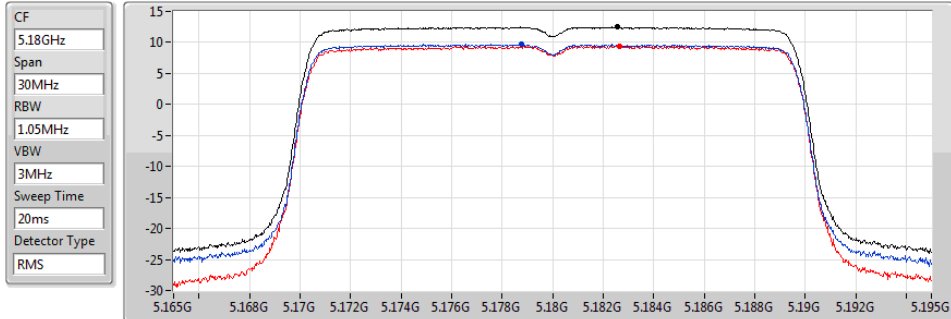
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.86	5.86	2.72	3.13

802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5180MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
12.50	12.50	9.72	9.40

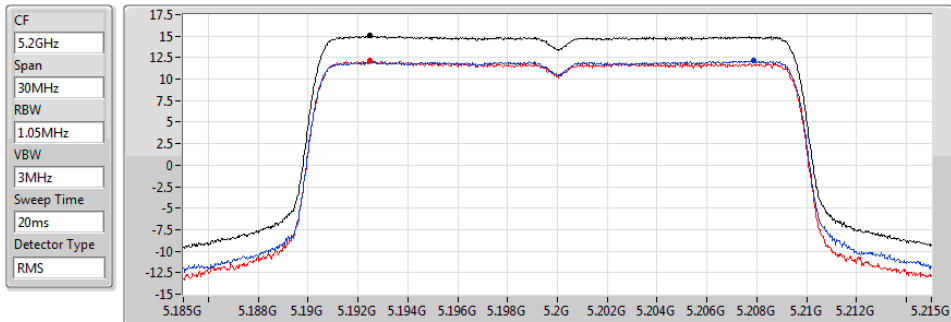
Sum
Port 1
Port 2

802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5200MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
15.03	15.03	12.12	12.14

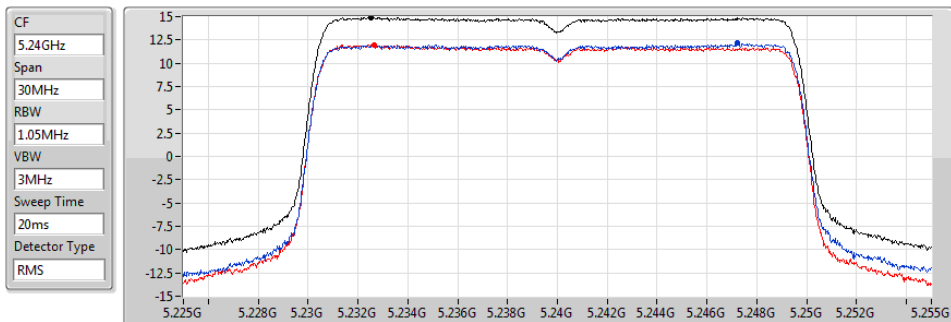
Sum
Port 1
Port 2

802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5240MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
14.92	14.92	12.17	11.94

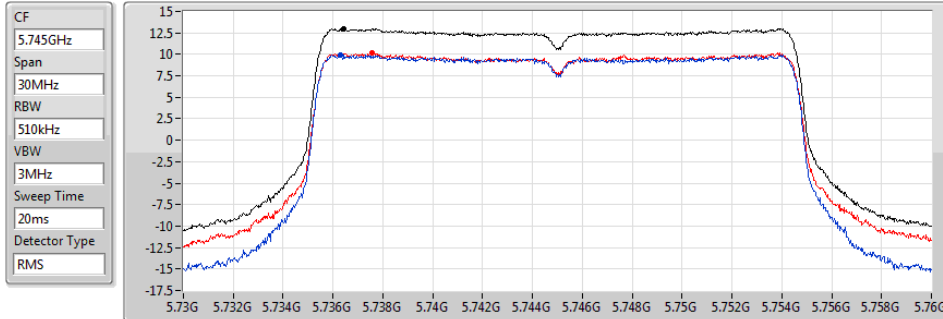
Sum
Port 1
Port 2

802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5745MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
12.97	12.97	9.98	10.17

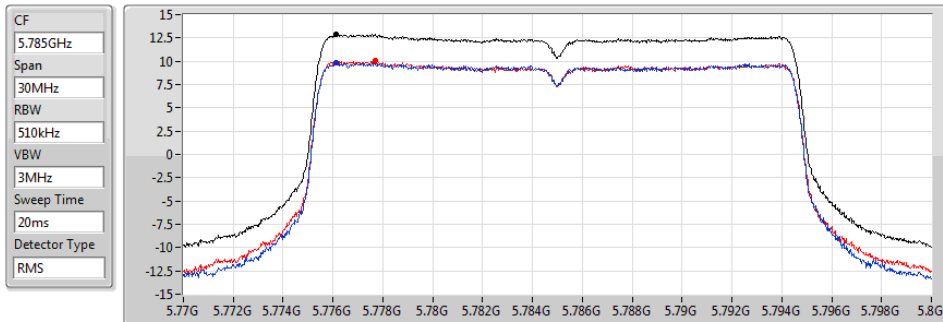
Sum
Port 1
Port 2

802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5785MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
12.89	12.89	9.87	10.02

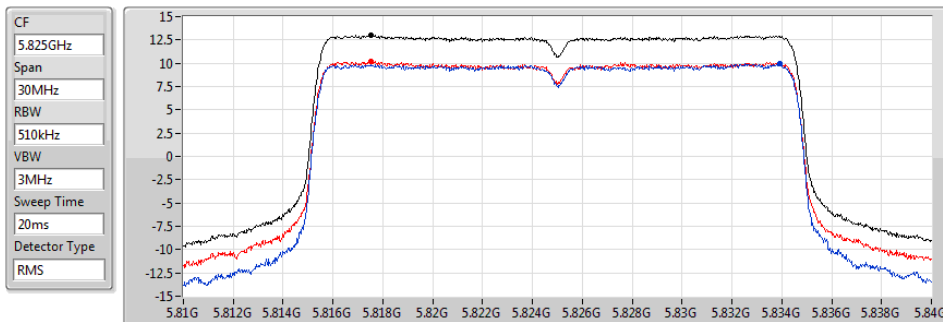
Sum
Port 1
Port 2

802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5825MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.01	13.01	9.96	10.21

Sum
Port 1
Port 2

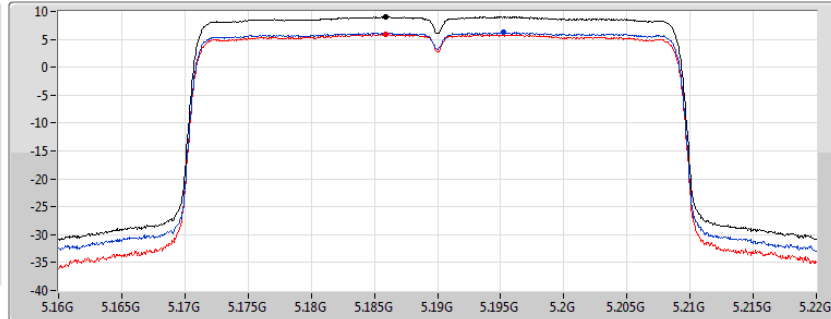
802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5190MHz

05/07/2019

CF
5.19GHz
Span
60MHz
RBW
1.05MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.02	9.02	6.23	5.94

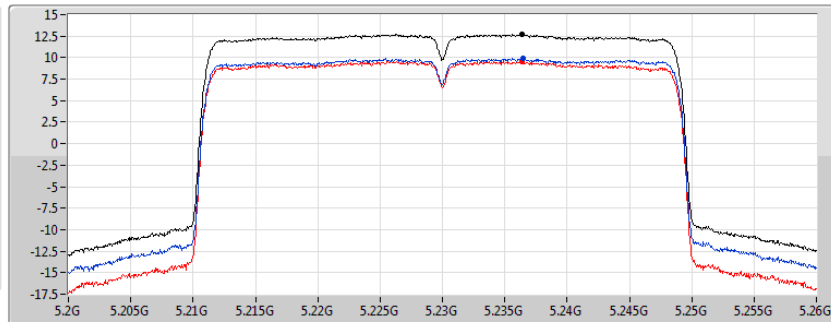
802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5230MHz

05/07/2019

CF
5.23GHz
Span
60MHz
RBW
1.05MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
12.70	12.70	9.88	9.56

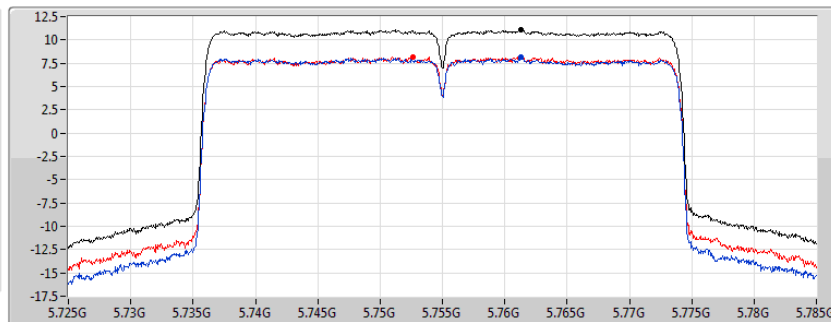
802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5755MHz

05/07/2019

CF
5.755GHz
Span
60MHz
RBW
510kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

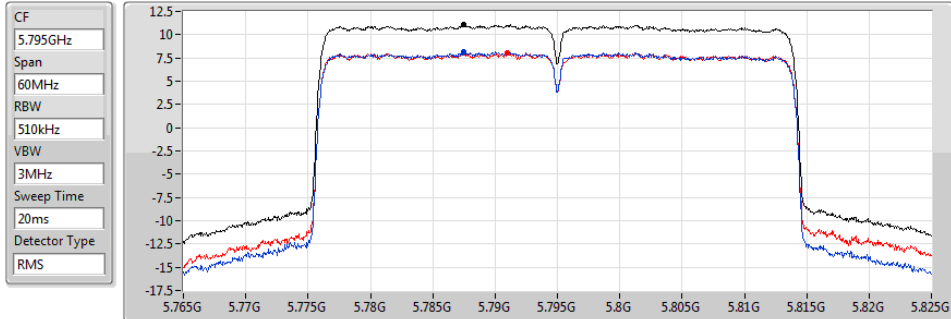
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.12	11.12	8.11	8.15

802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5795MHz

05/07/2019



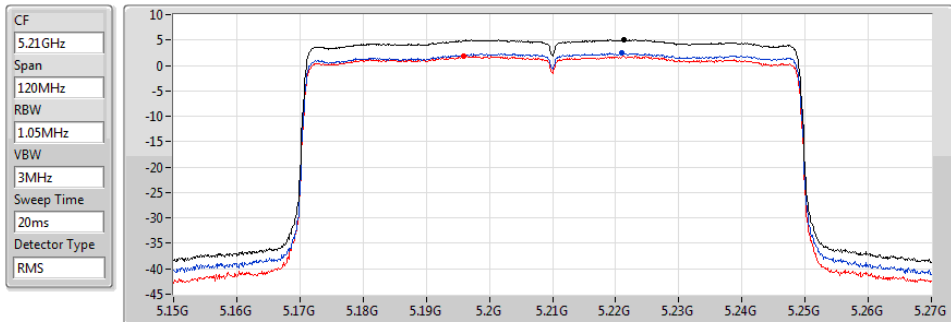
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.05	11.05	8.13	8.04

802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

5210MHz

05/07/2019



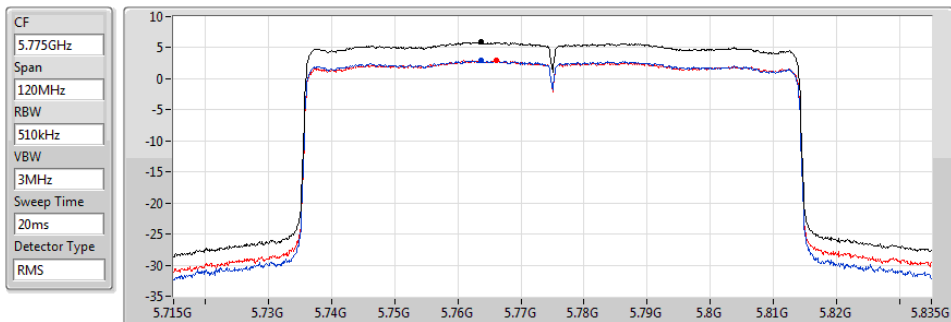
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.07	5.07	2.40	1.80

802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

5775MHz

05/07/2019



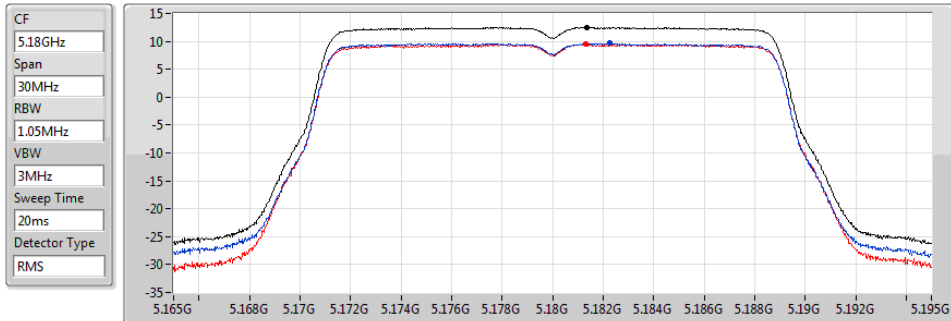
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.88	5.88	2.99	2.90

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

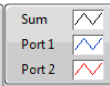
PSD

5180MHz

06/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
12.54	12.54	9.63	9.57

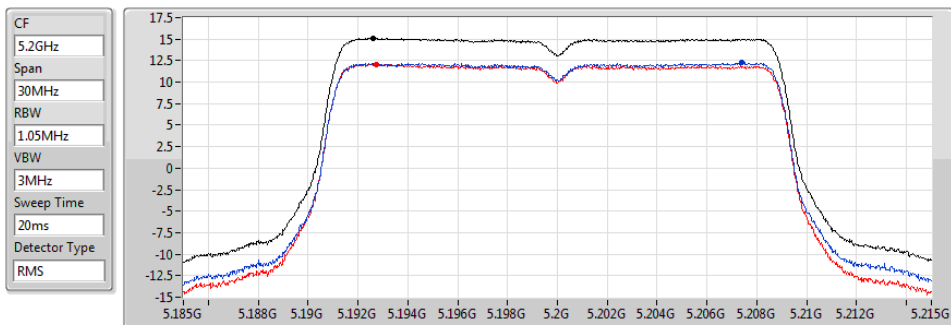


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

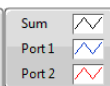
PSD

5200MHz

06/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
15.12	15.12	12.28	12.09

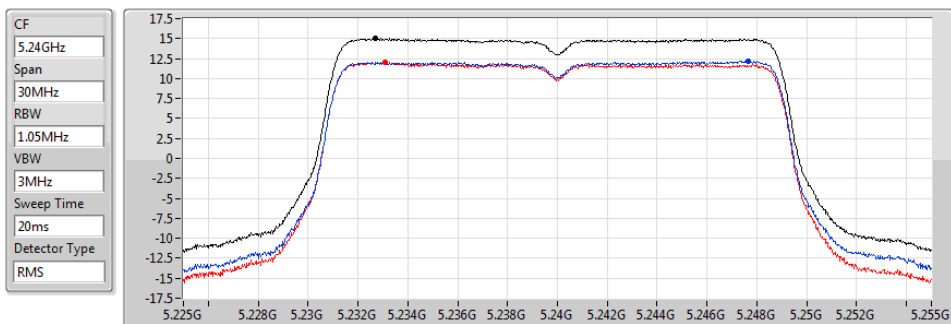


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

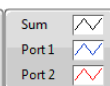
PSD

5240MHz

06/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
15.01	15.01	12.17	12.02

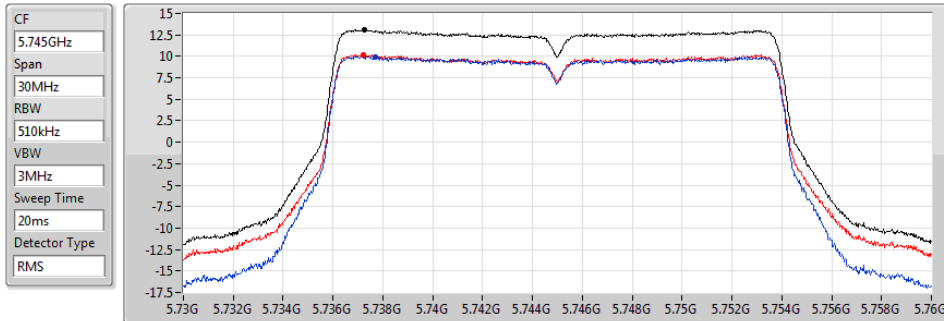


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

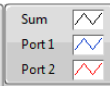
PSD

5745MHz

06/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.06	13.06	9.97	10.20

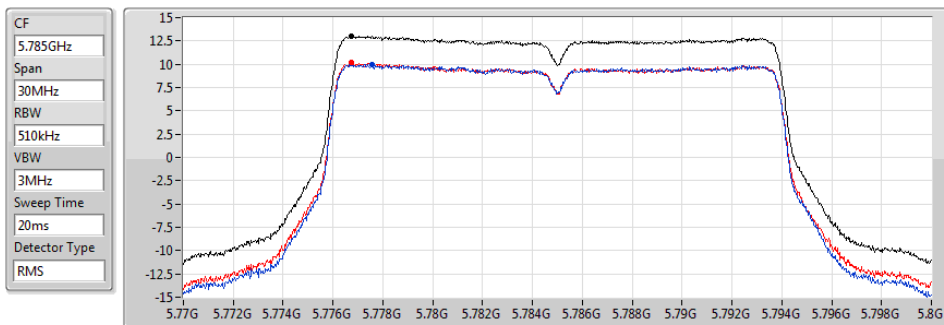


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

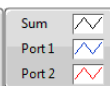
PSD

5785MHz

06/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
12.98	12.98	9.96	10.15

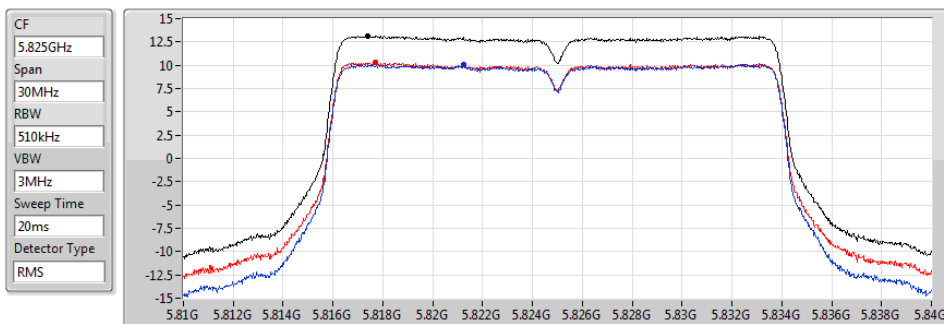


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

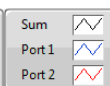
PSD

5825MHz

06/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.13	13.13	10.06	10.26

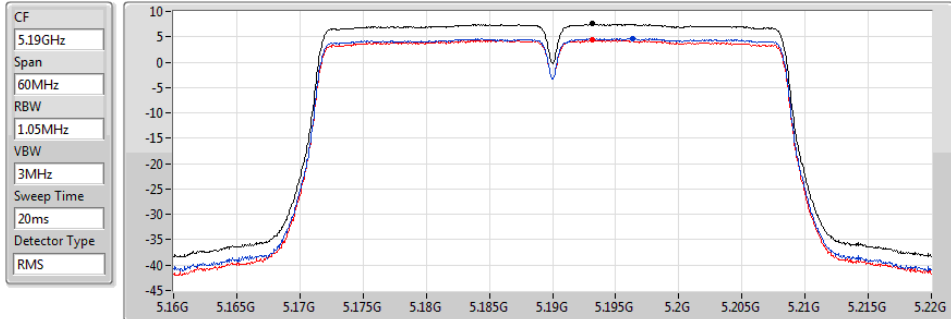


802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5190MHz

06/07/2019



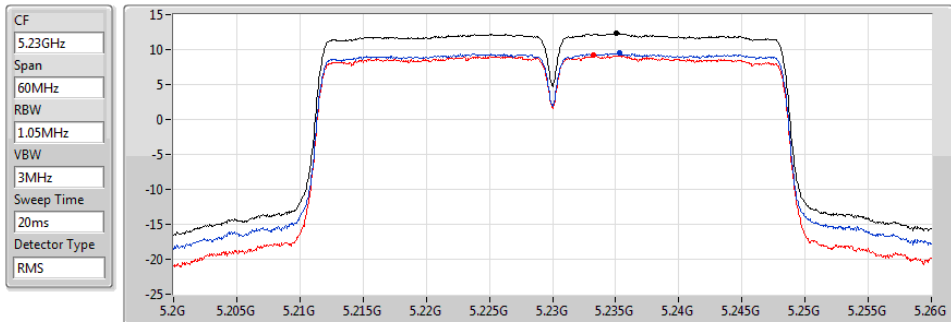
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
7.53	7.53	4.70	4.41

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5230MHz

06/07/2019



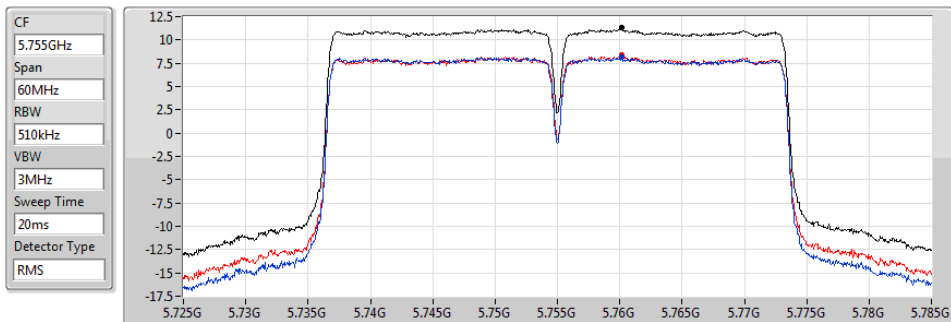
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
12.30	12.30	9.46	9.17

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5755MHz

06/07/2019



Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
11.31	11.31	8.16	8.43

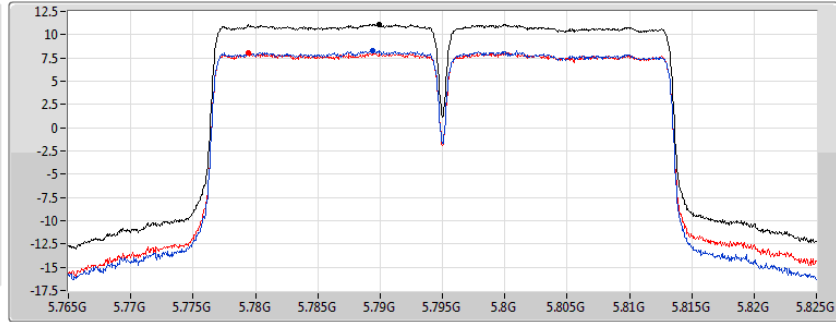
802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5795MHz

06/07/2019

CF
5.795GHz
Span
60MHz
RBW
510kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.11	11.11	8.27	8.07

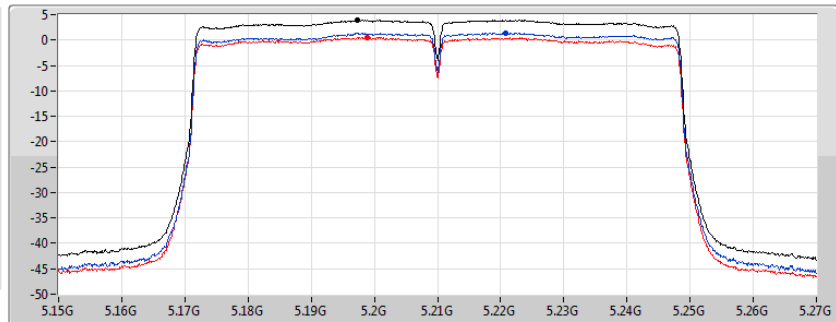
802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

5210MHz

06/07/2019

CF
5.21GHz
Span
120MHz
RBW
1.05MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.93	3.93	1.33	0.59

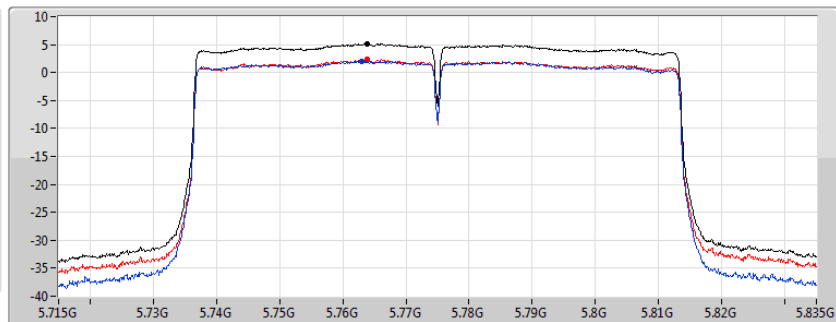
802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

5775MHz

06/07/2019

CF
5.775GHz
Span
120MHz
RBW
510kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

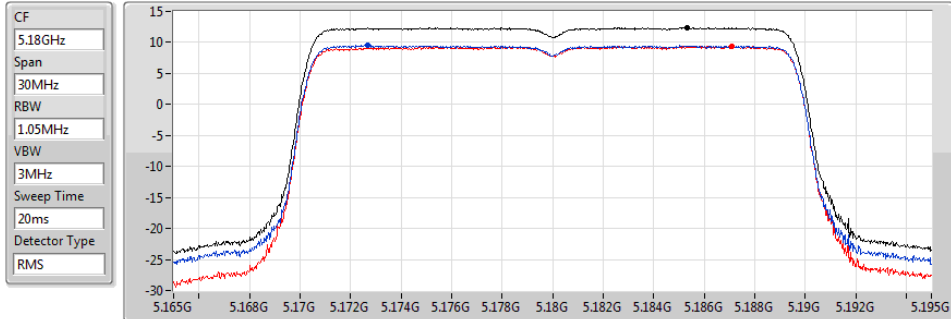
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.10	5.10	2.00	2.35

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5180MHz

05/07/2019



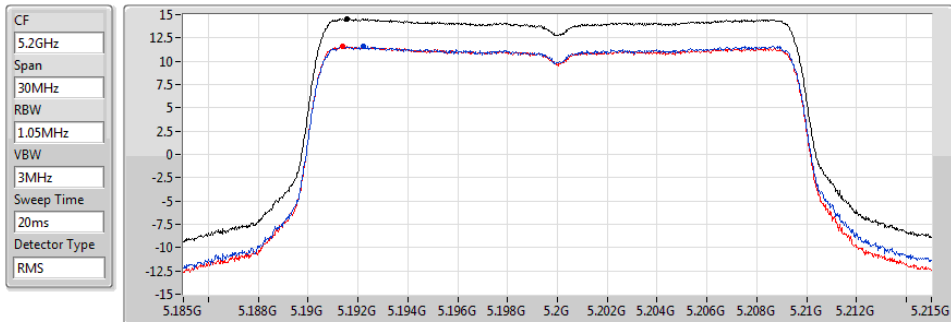
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
12.38	12.38	9.51	9.35

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5200MHz

05/07/2019



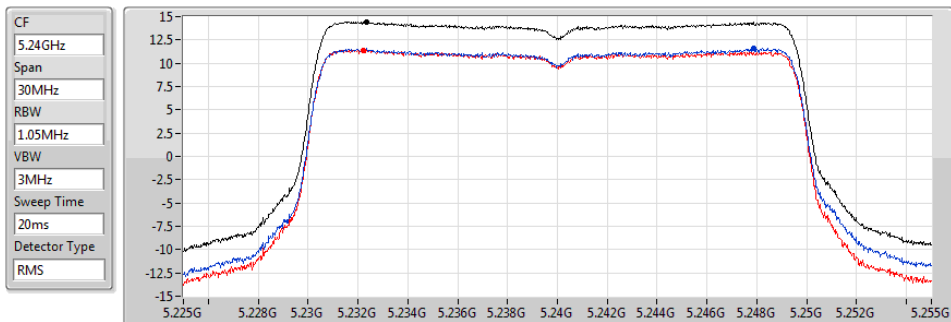
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
14.54	14.54	11.62	11.59

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5240MHz

05/07/2019



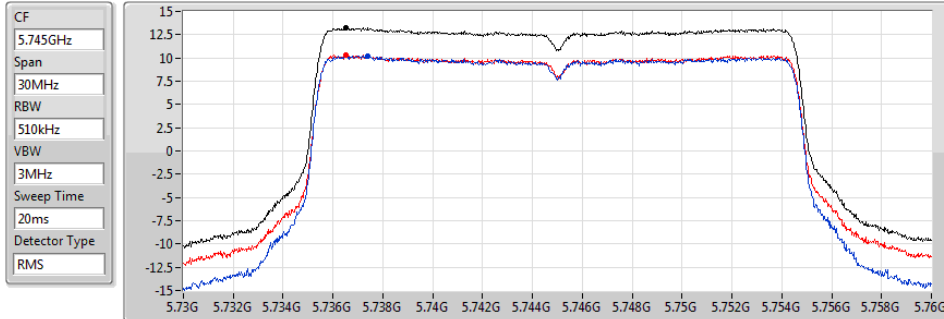
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
14.47	14.47	11.61	11.41

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5745MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.24	13.24	10.24	10.27

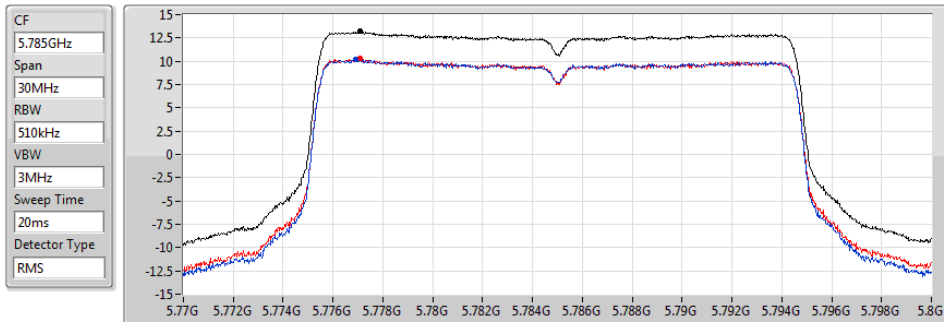
Sum
Port 1
Port 2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5785MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.21	13.21	10.17	10.29

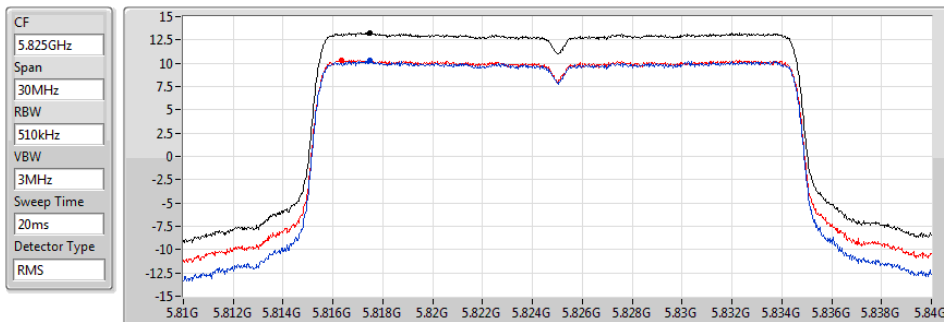
Sum
Port 1
Port 2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5825MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.25	13.25	10.26	10.36

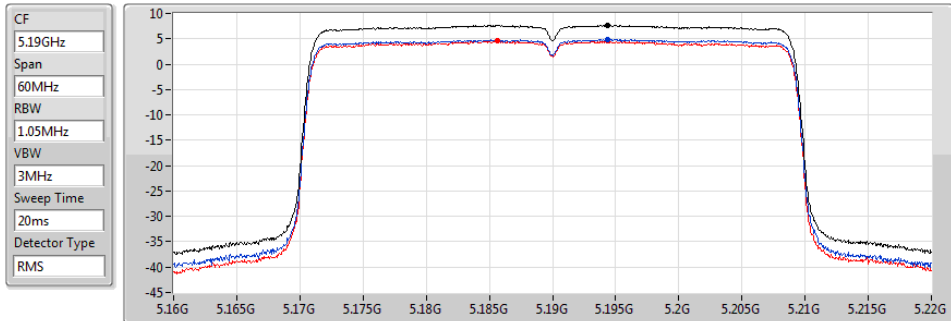
Sum
Port 1
Port 2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

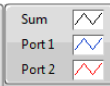
PSD

5190MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.68	7.68	4.87	4.54

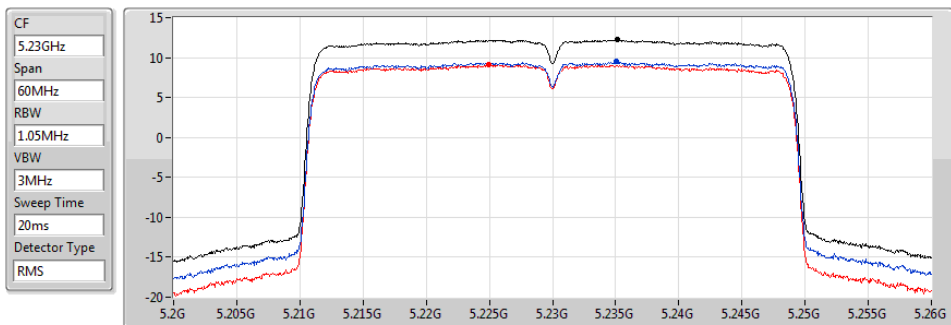


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

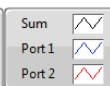
PSD

5230MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
12.26	12.26	9.47	9.08

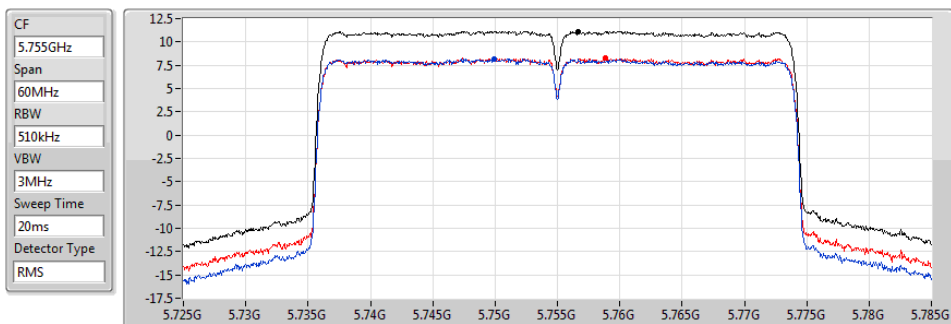


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

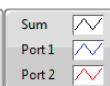
PSD

5755MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.15	11.15	8.17	8.29



802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

5795MHz

05/07/2019



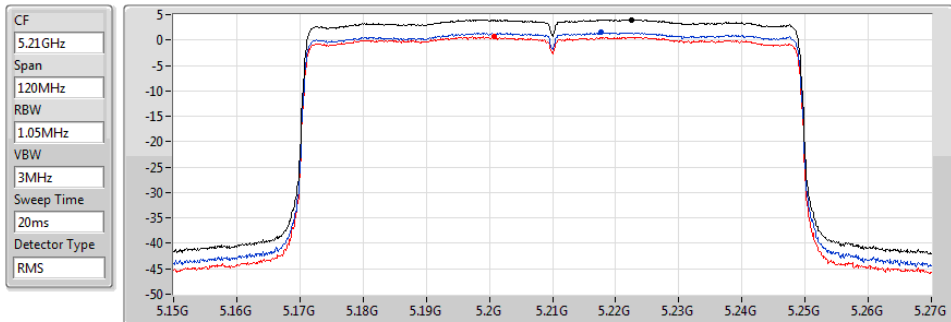
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.89	10.89	7.95	7.98

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

PSD

5210MHz

05/07/2019



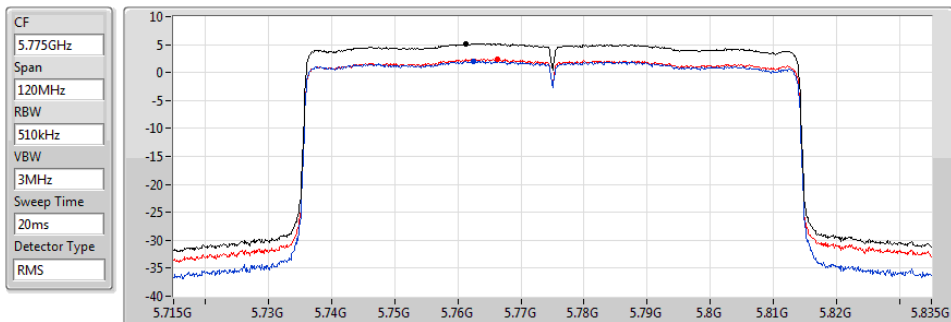
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.03	4.03	1.46	0.63

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

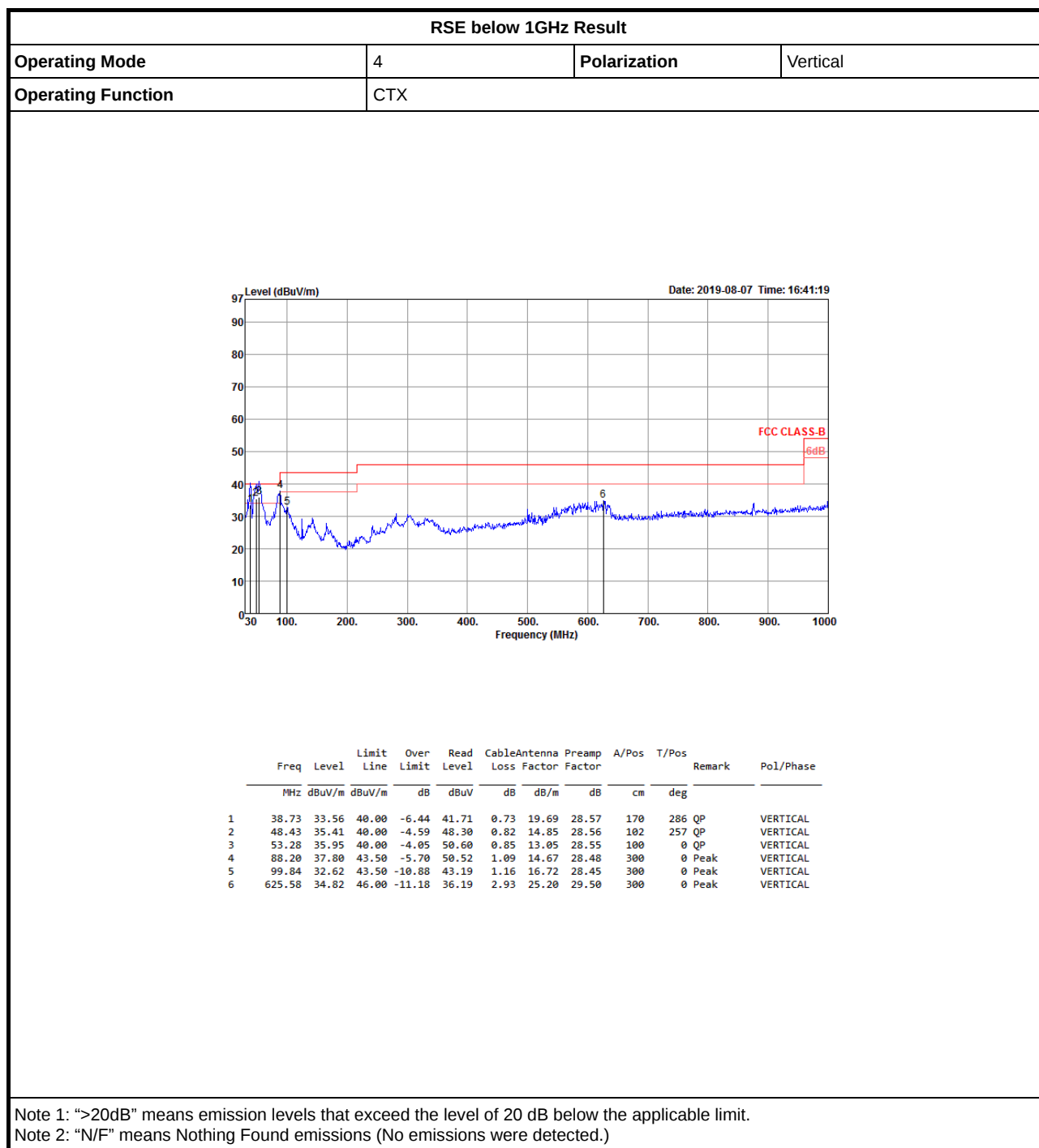
PSD

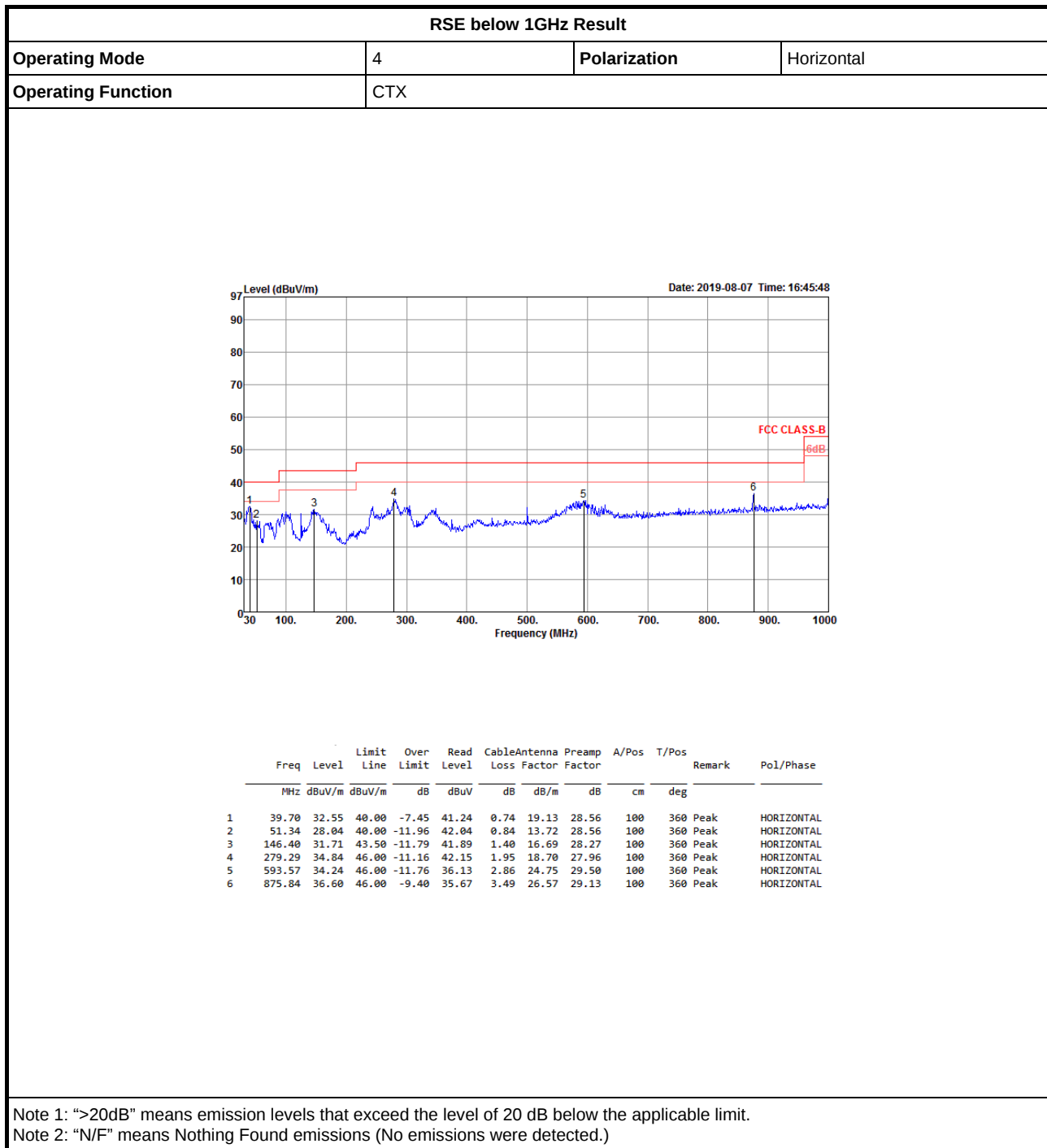
5775MHz

05/07/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.19	5.19	2.03	2.42







RSE TX above 1GHz Result

Appendix E.2

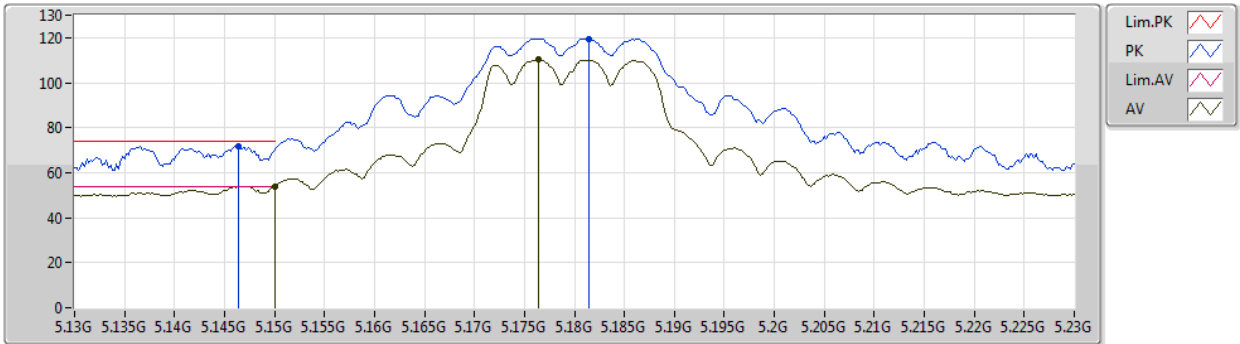
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss2,(MCS0)_2TX	Pass	AV	5.1496G	53.99	54.00	-0.01	7.32	3	Vertical	293	1.40	-

802.11a_Nss1,(6Mbps)_2TX

20/06/2019

5180MHz_TX



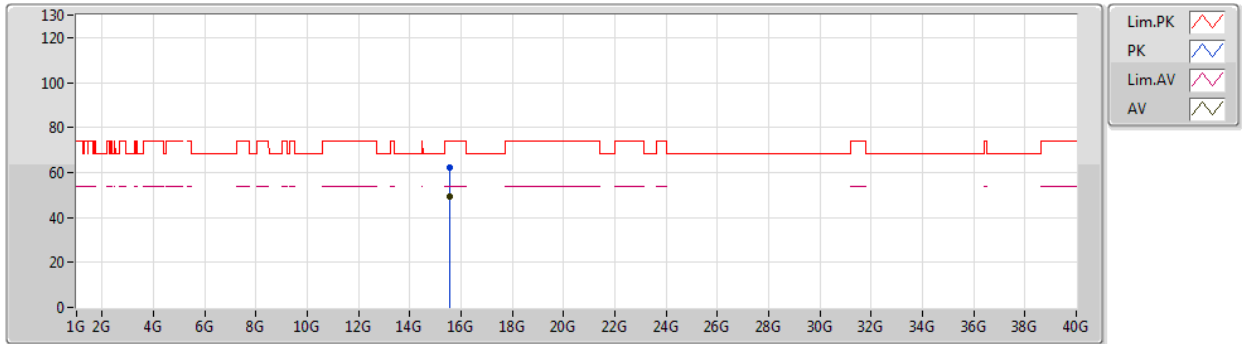
EUT_Z_2TX
Setting 96
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1464G	71.92	74.00	-2.08	7.32	3	Vertical	346	2.99	-				
AV	5.15G	53.94	54.00	-0.06	7.32	3	Vertical	346	2.99	-				
PK	5.1814G	119.60	Inf	-Inf	7.35	3	Vertical	346	2.99	-				
AV	5.1764G	110.17	Inf	-Inf	7.35	3	Vertical	346	2.99	-				

802.11a_Nss1,(6Mbps)_2TX

03/07/2019

5180MHz_TX



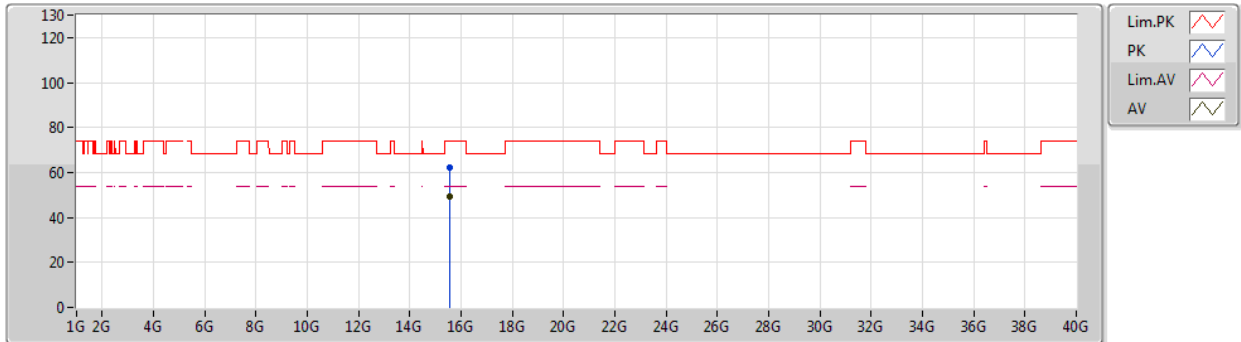
EUT_Z_2TX
Setting 96
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	15.53724G	62.35	74.00	-11.65	17.45	3	Vertical	284	1.14	-
AV	15.53688G	49.18	54.00	-4.82	17.45	3	Vertical	284	1.14	-

802.11a_Nss1,(6Mbps)_2TX

03/07/2019

5180MHz_TX



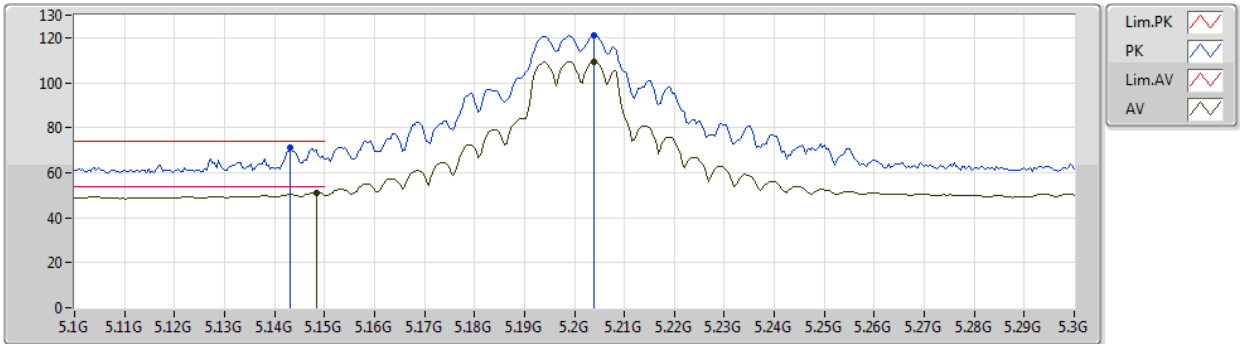
EUT_Z_2TX
Setting 96
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.54216G	62.31	74.00	-11.69	17.45	3	Horizontal	52	2.33	-				
AV	15.53328G	49.06	54.00	-4.94	17.46	3	Horizontal	52	2.33	-				

802.11a_Nss1,(6Mbps)_2TX

20/06/2019

5200MHz_TX



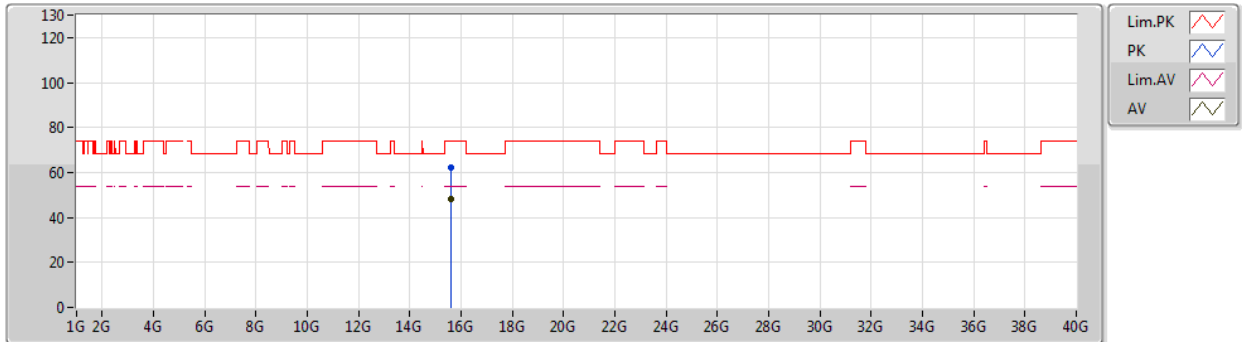
EUT Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1432G	71.01	74.00	-2.99	7.32	3	Vertical	15	1.43	-				
AV	5.1484G	51.25	54.00	-2.75	7.32	3	Vertical	15	1.43	-				
PK	5.204G	121.10	Inf	-Inf	7.37	3	Vertical	15	1.43	-				
AV	5.204G	109.20	Inf	-Inf	7.37	3	Vertical	15	1.43	-				

802.11a_Nss1,(6Mbps)_2TX

03/07/2019

5200MHz_TX



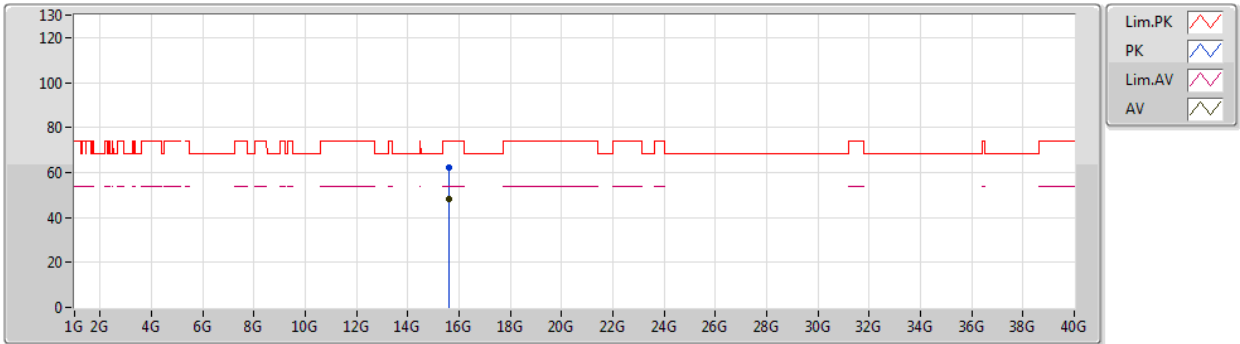
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	15.592G	62.06	74.00	-11.94	17.38	3	Vertical	237	1.83	-
AV	15.59584G	48.35	54.00	-5.65	17.38	3	Vertical	237	1.83	-

802.11a_Nss1,(6Mbps)_2TX

03/07/2019

5200MHz_TX



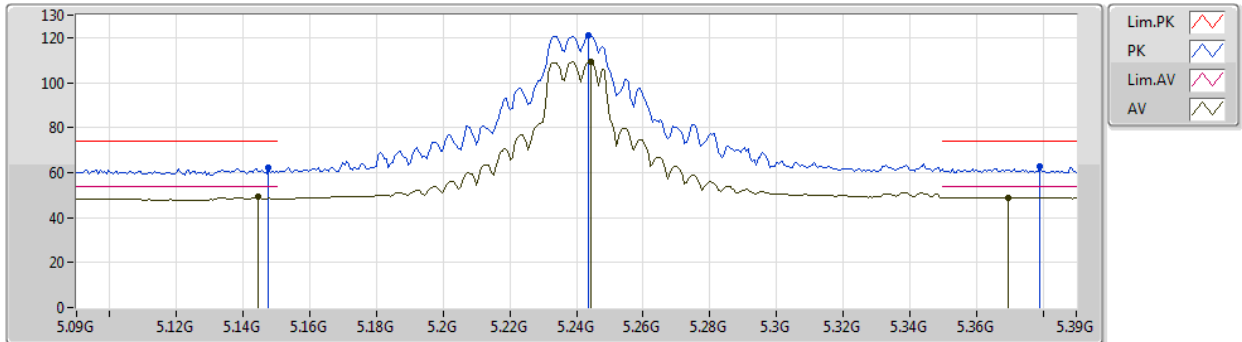
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.60752G	62.04	74.00	-11.96	17.36	3	Horizontal	3	1.55	-				
AV	15.59272G	48.36	54.00	-5.64	17.38	3	Horizontal	3	1.55	-				

802.11a_Nss1,(6Mbps)_2TX

20/06/2019

5240MHz_TX



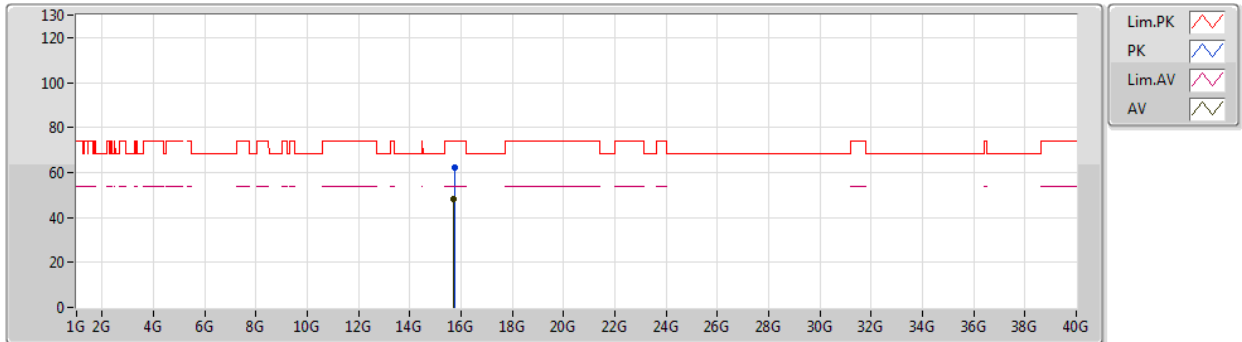
EUT_Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1476G	61.93	74.00	-12.07	7.32	3	Vertical	16	1.34	-
AV	5.1446G	49.04	54.00	-4.96	7.32	3	Vertical	16	1.34	-
PK	5.2436G	121.24	Inf	-Inf	7.41	3	Vertical	16	1.34	-
AV	5.2442G	109.32	Inf	-Inf	7.41	3	Vertical	16	1.34	-
PK	5.3792G	62.94	74.00	-11.06	7.50	3	Vertical	16	1.34	-
AV	5.3696G	48.88	54.00	-5.12	7.49	3	Vertical	16	1.34	-

802.11a_Nss1,(6Mbps)_2TX

03/07/2019

5240MHz_TX



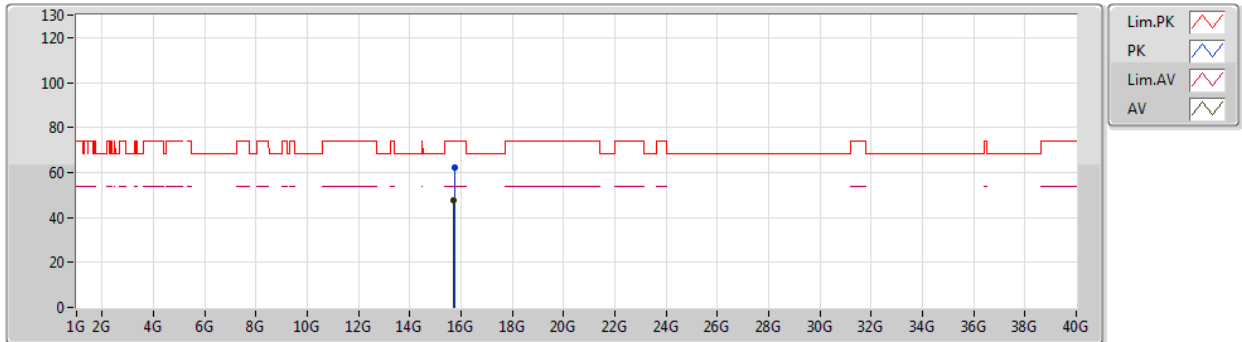
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	15.7332G	62.34	74.00	-11.66	17.12	3	Vertical	168	1.50	-
AV	15.70626G	48.29	54.00	-5.71	17.15	3	Vertical	168	1.50	-

802.11a_Nss1,(6Mbps)_2TX

03/07/2019

5240MHz_TX



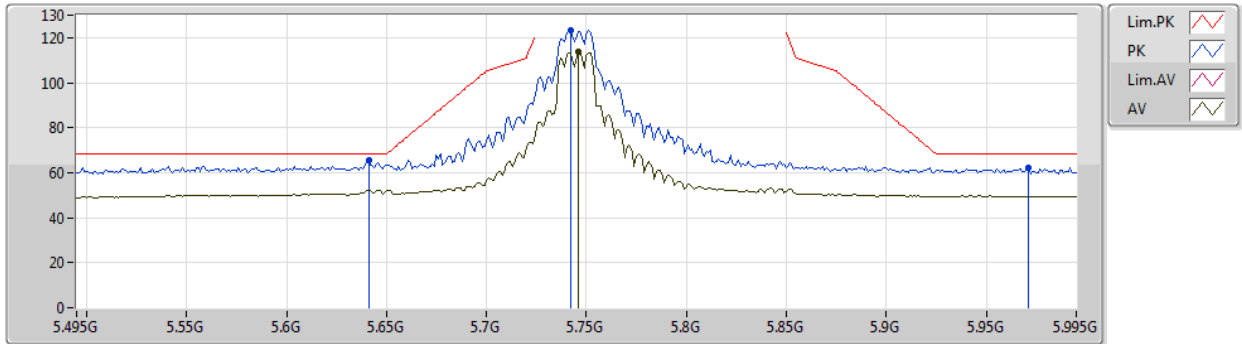
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.72972G	62.09	74.00	-11.91	17.12	3	Horizontal	134	1.50	-				
AV	15.7122G	47.78	54.00	-6.22	17.14	3	Horizontal	134	1.50	-				

802.11a_Nss1,(6Mbps)_2TX

20/06/2019

5745MHz_TX



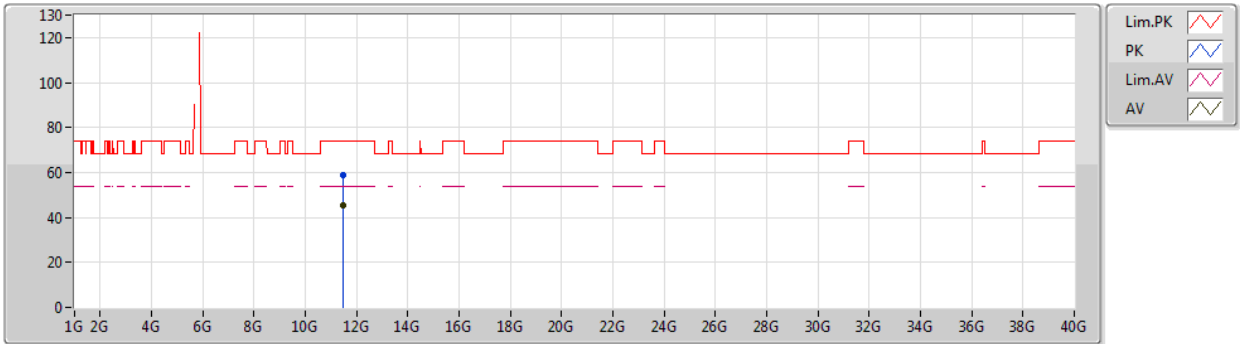
EUT_Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.641G	65.37	68.20	-2.83	7.85	3	Vertical	237	1.98	-				
PK	5.742G	123.06	Inf	-Inf	8.01	3	Vertical	237	1.98	-				
AV	5.746G	113.47	Inf	-Inf	8.01	3	Vertical	237	1.98	-				
PK	5.971G	62.09	68.20	-6.11	8.47	3	Vertical	237	1.98	-				

802.11a_Nss1,(6Mbps)_2TX

03/07/2019

5745MHz_TX



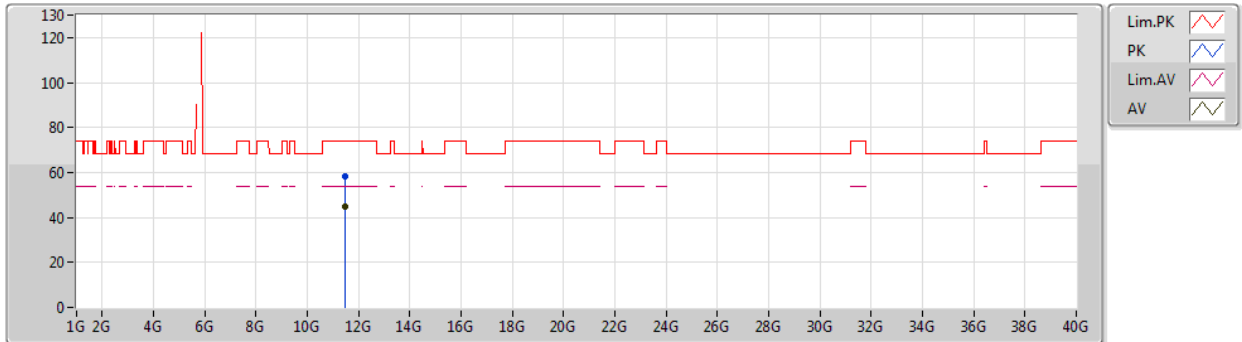
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.49028G	58.86	74.00	-15.14	17.17	3	Vertical	254	1.41	-				
AV	11.49312G	45.26	54.00	-8.74	17.17	3	Vertical	254	1.41	-				

802.11a_Nss1,(6Mbps)_2TX

03/07/2019

5745MHz_TX



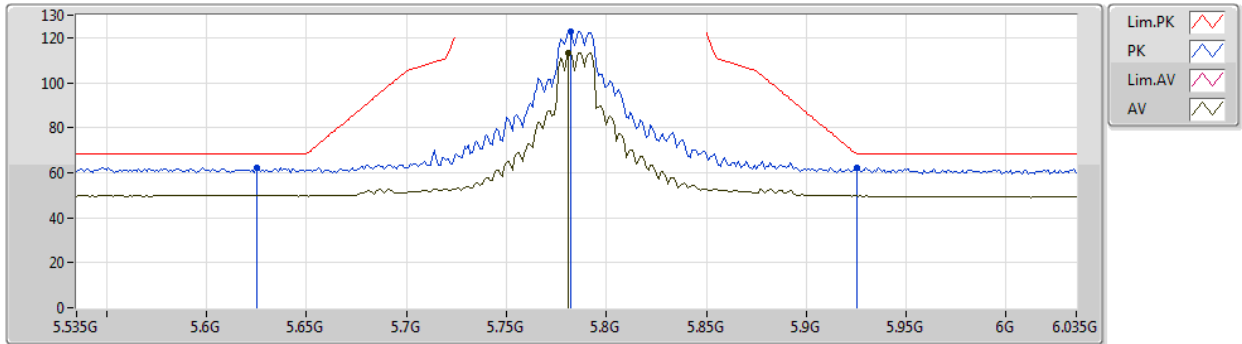
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.4826G	58.28	74.00	-15.72	17.16	3	Horizontal	134	1.45	-				
AV	11.49364G	45.07	54.00	-8.93	17.17	3	Horizontal	134	1.45	-				

802.11a_Nss1,(6Mbps)_2TX

20/06/2019

5785MHz_TX



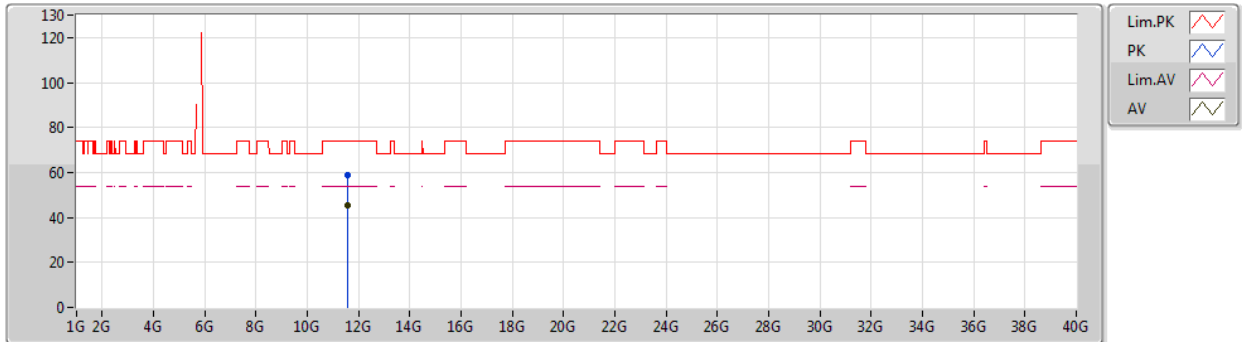
EUT Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.625G	62.45	68.20	-5.75	7.83	3	Vertical	236	1.90	-				
PK	5.782G	122.98	Inf	-Inf	8.06	3	Vertical	236	1.90	-				
AV	5.781G	113.12	Inf	-Inf	8.06	3	Vertical	236	1.90	-				
PK	5.925G	62.29	68.20	-5.91	8.37	3	Vertical	236	1.90	-				

802.11a_Nss1,(6Mbps)_2TX

03/07/2019

5785MHz_TX



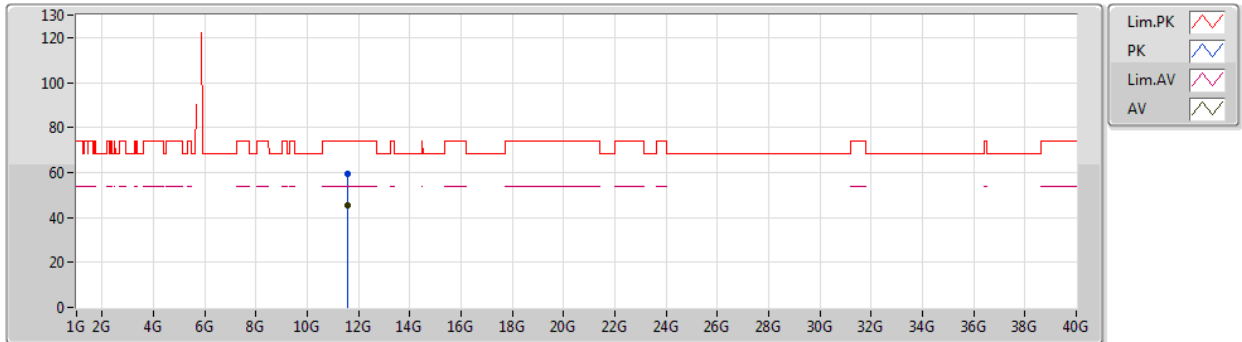
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	11.5712G	59.10	74.00	-14.90	17.03	3	Vertical	2	2.16	-
AV	11.57772G	45.50	54.00	-8.50	17.01	3	Vertical	2	2.16	-

802.11a_Nss1,(6Mbps)_2TX

03/07/2019

5785MHz_TX



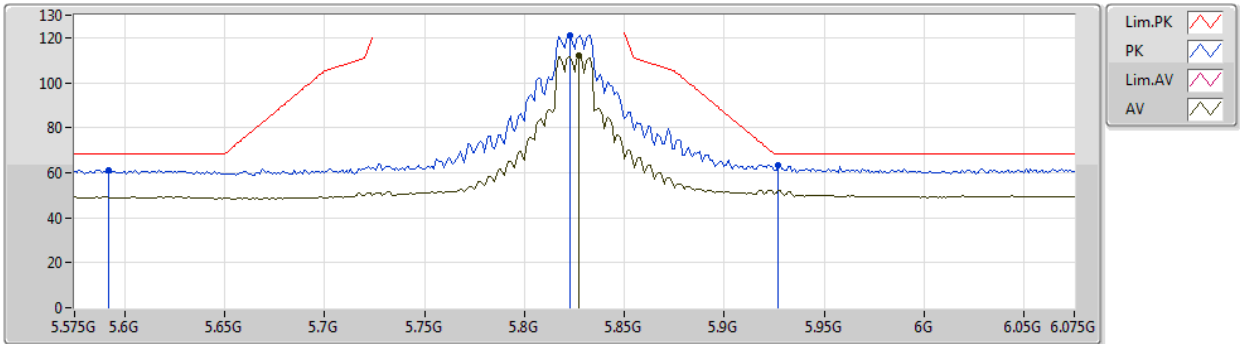
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.57584G	59.36	74.00	-14.64	17.02	3	Horizontal	67	1.31	-				
AV	11.57264G	45.57	54.00	-8.43	17.02	3	Horizontal	67	1.31	-				

802.11a_Nss1,(6Mbps)_2TX

20/06/2019

5825MHz_TX



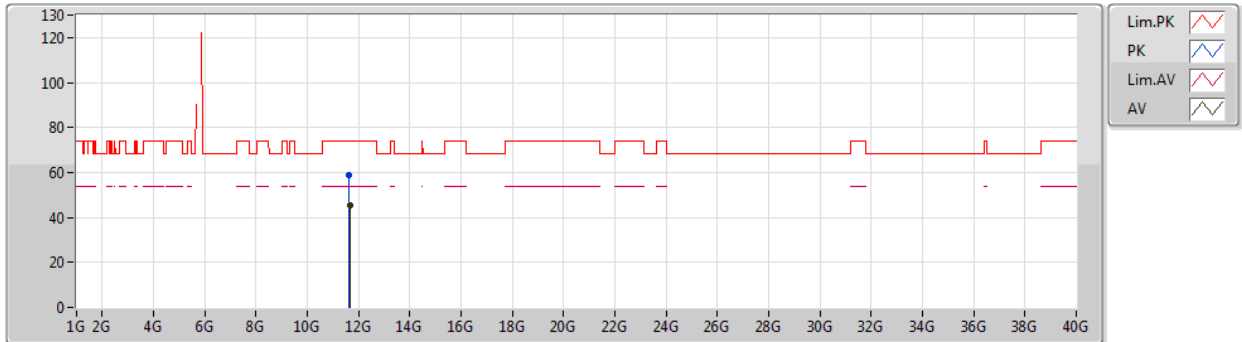
EUT Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.592G	61.13	68.20	-7.07	7.77	3	Vertical	241	1.83	-				
PK	5.823G	121.24	Inf	-Inf	8.14	3	Vertical	241	1.83	-				
AV	5.827G	111.86	Inf	-Inf	8.15	3	Vertical	241	1.83	-				
PK	5.927G	63.38	68.20	-4.82	8.37	3	Vertical	241	1.83	-				

802.11a_Nss1,(6Mbps)_2TX

03/07/2019

5825MHz_TX



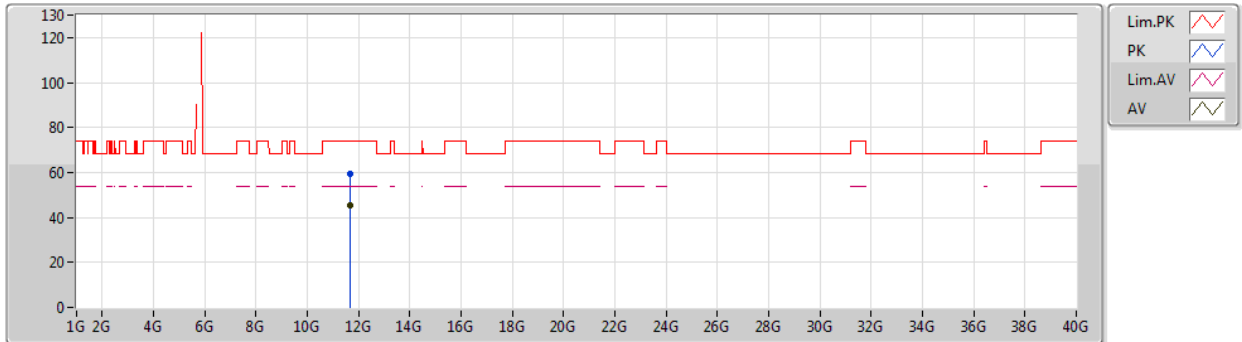
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.643G	58.71	74.00	-15.29	16.89	3	Vertical	92	1.76	-				
AV	11.65504G	45.45	54.00	-8.55	16.88	3	Vertical	92	1.76	-				

802.11a_Nss1,(6Mbps)_2TX

03/07/2019

5825MHz_TX



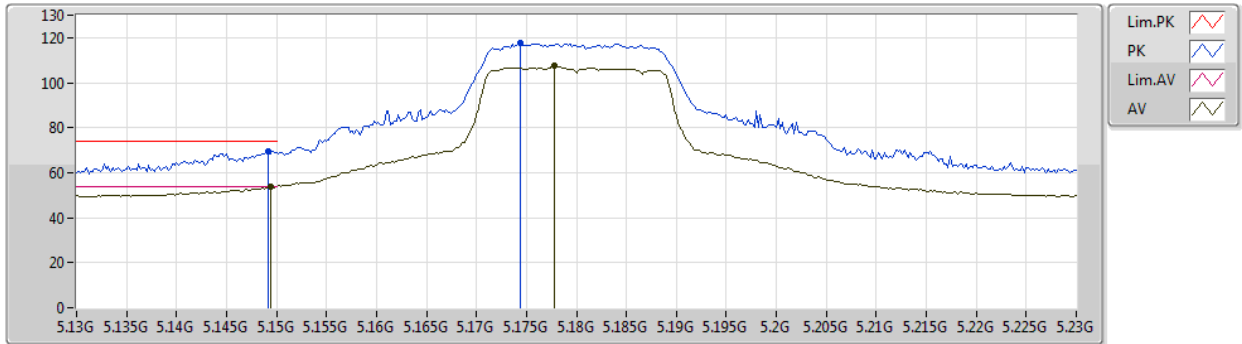
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.648G	59.66	74.00	-14.34	16.88	3	Horizontal	167	1.61	-				
AV	11.65268G	45.48	54.00	-8.52	16.88	3	Horizontal	167	1.61	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

20/06/2019

5180MHz_TX



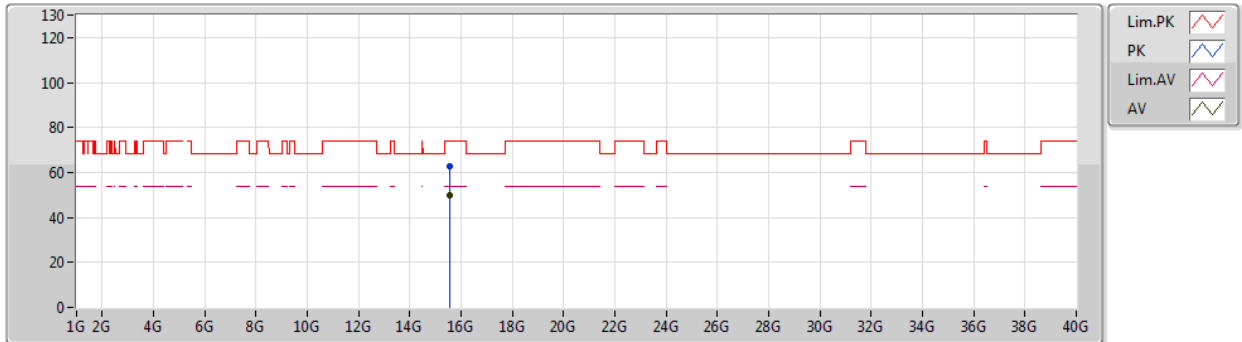
EUT_Z_2TX
Setting 93
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1492G	69.69	74.00	-4.31	7.32	3	Vertical	347	2.99	-				
AV	5.1494G	53.91	54.00	-0.09	7.32	3	Vertical	347	2.99	-				
PK	5.1744G	117.69	Inf	-Inf	7.34	3	Vertical	347	2.99	-				
AV	5.1778G	107.72	Inf	-Inf	7.35	3	Vertical	347	2.99	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

03/07/2019

5180MHz_TX



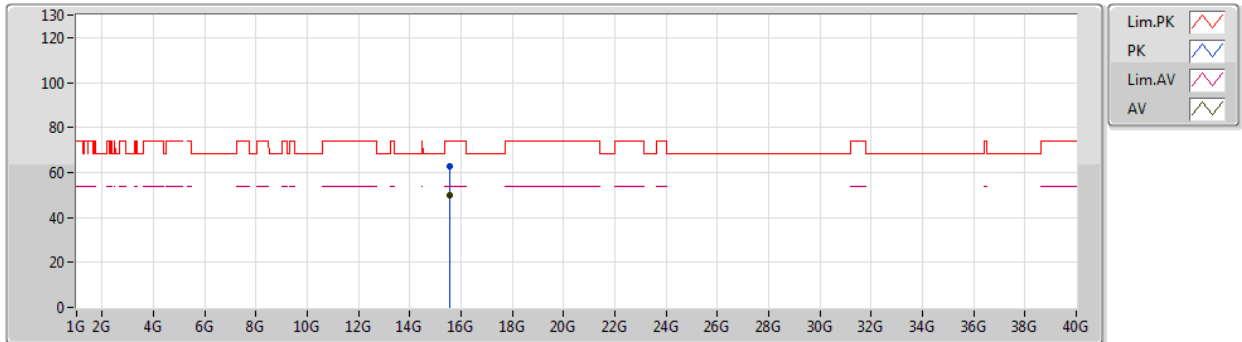
EUT_Z_2TX
Setting 93
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	15.54792G	62.85	74.00	-11.15	17.44	3	Vertical	223	2.38	-
AV	15.54964G	49.94	54.00	-4.06	17.44	3	Vertical	223	2.38	-

802.11ax HEW20_Nss2,(MCS0)_2TX

03/07/2019

5180MHz_TX



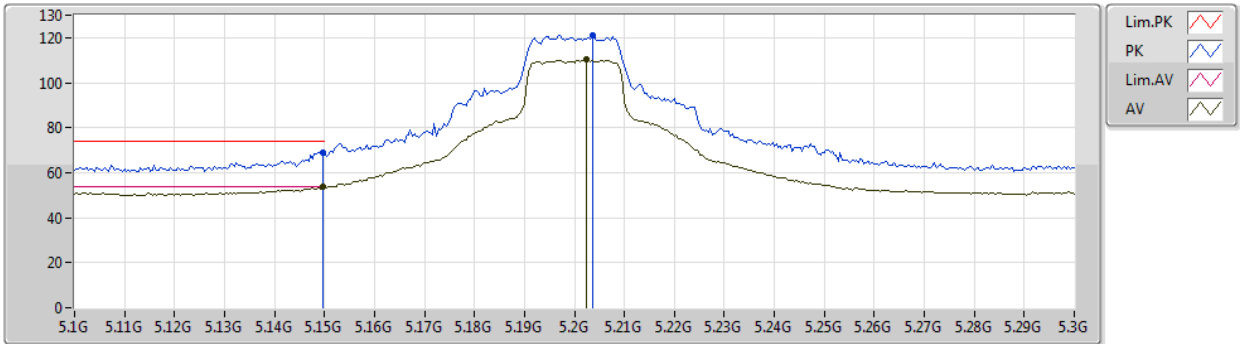
EUT_Z_2TX
Setting 93
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.5332G	62.73	74.00	-11.27	17.46	3	Horizontal	130	2.40	-				
AV	15.54056G	49.80	54.00	-4.20	17.45	3	Horizontal	130	2.40	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

20/06/2019

5200MHz_TX



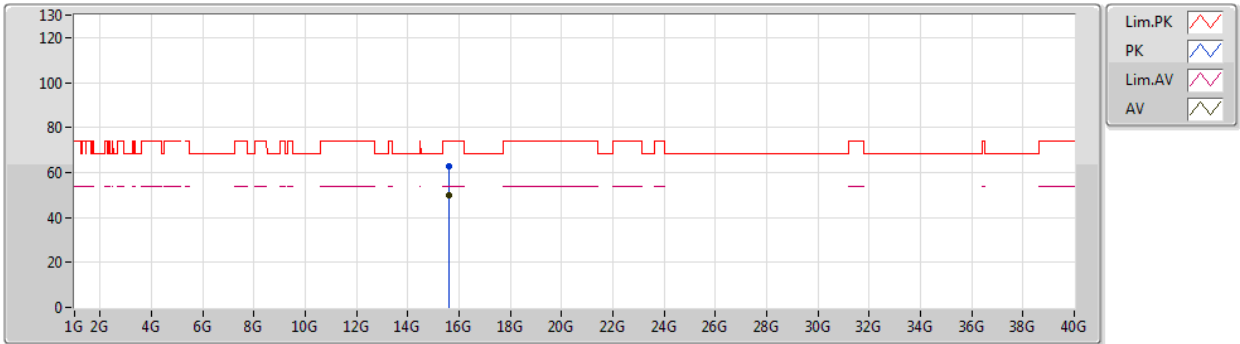
EUT_Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1496G	68.94	74.00	-5.06	7.32	3	Vertical	36	1.21	-				
AV	5.1497G	53.72	54.00	-0.28	7.32	3	Vertical	36	1.21	-				
PK	5.2036G	121.09	Inf	-Inf	7.37	3	Vertical	36	1.21	-				
AV	5.2024G	110.51	Inf	-Inf	7.37	3	Vertical	36	1.21	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

03/07/2019

5200MHz_TX



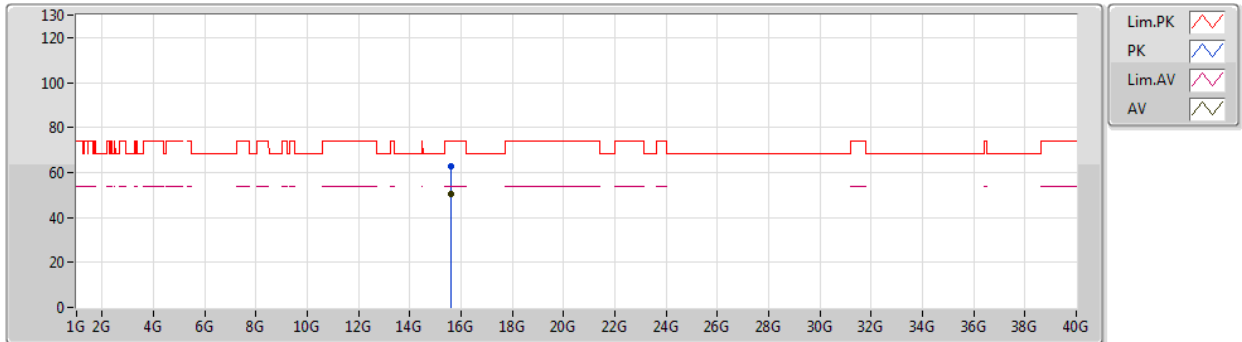
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Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	15.598G	62.69	74.00	-11.31	17.37	3	Vertical	291	2.41	-
AV	15.59264G	50.02	54.00	-3.98	17.38	3	Vertical	291	2.41	-

802.11ax HEW20_Nss2,(MCS0)_2TX

03/07/2019

5200MHz_TX



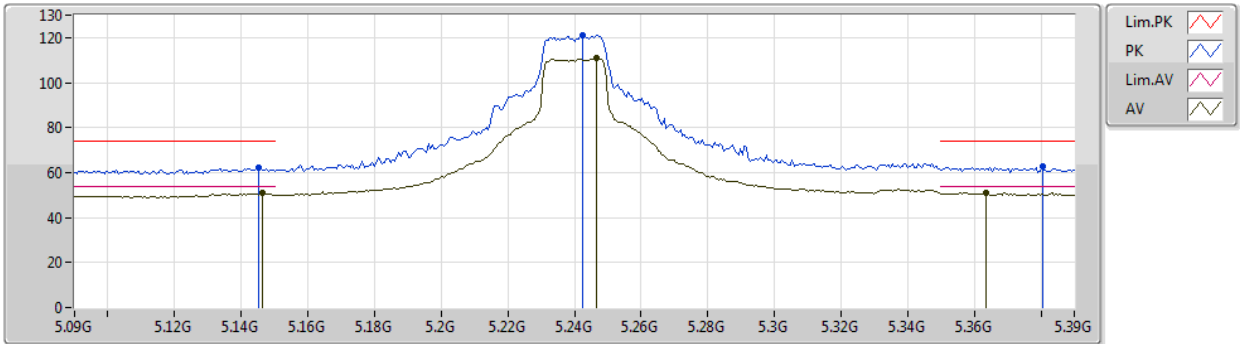
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Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.60024G	62.49	74.00	-11.51	17.37	3	Horizontal	96	1.01	-				
AV	15.59328G	50.21	54.00	-3.79	17.38	3	Horizontal	96	1.01	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

20/06/2019

5240MHz_TX



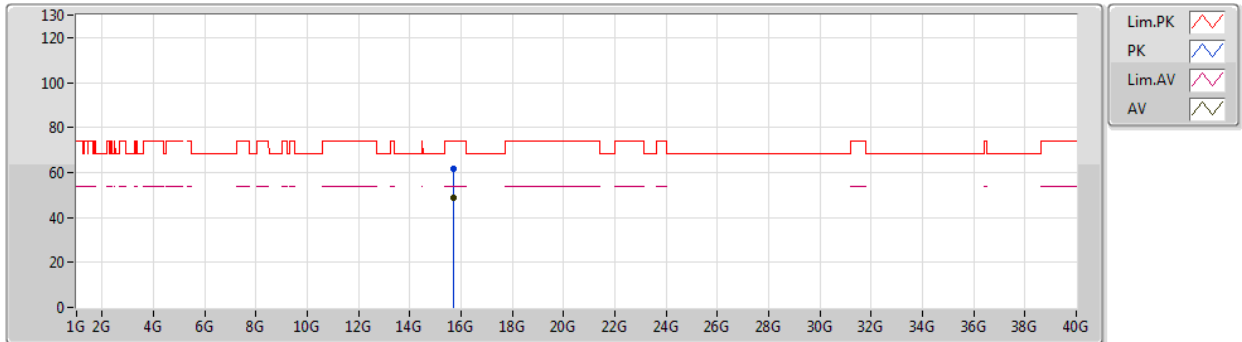
EUT Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1452G	62.47	74.00	-11.53	7.32	3	Vertical	44	2.93	-
AV	5.1464G	50.74	54.00	-3.26	7.32	3	Vertical	44	2.93	-
PK	5.2424G	121.25	Inf	-Inf	7.41	3	Vertical	44	2.93	-
AV	5.2466G	111.00	Inf	-Inf	7.41	3	Vertical	44	2.93	-
PK	5.3804G	62.64	74.00	-11.36	7.50	3	Vertical	44	2.93	-
AV	5.3636G	50.89	54.00	-3.11	7.49	3	Vertical	44	2.93	-

802.11ax HEW20_Nss2,(MCS0)_2TX

03/07/2019

5240MHz_TX



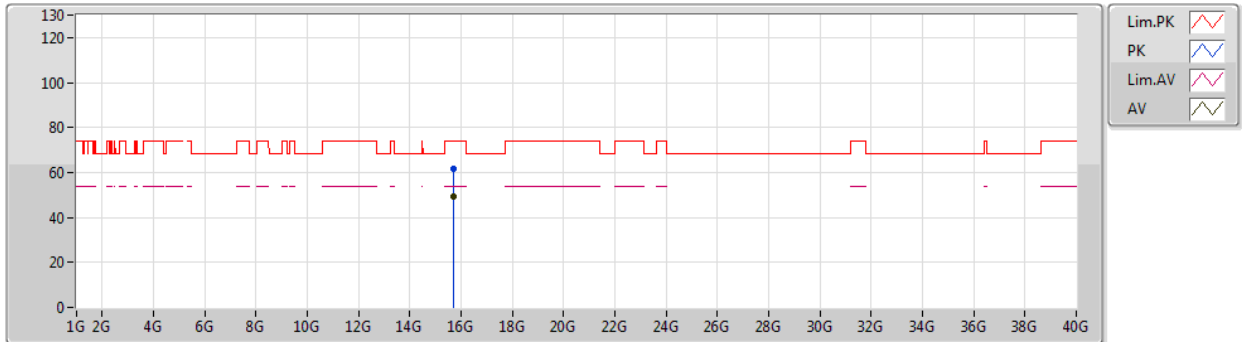
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Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.721G	61.37	74.00	-12.63	17.13	3	Vertical	7	1.05	-				
AV	15.71628G	48.93	54.00	-5.07	17.13	3	Vertical	7	1.05	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

03/07/2019

5240MHz_TX



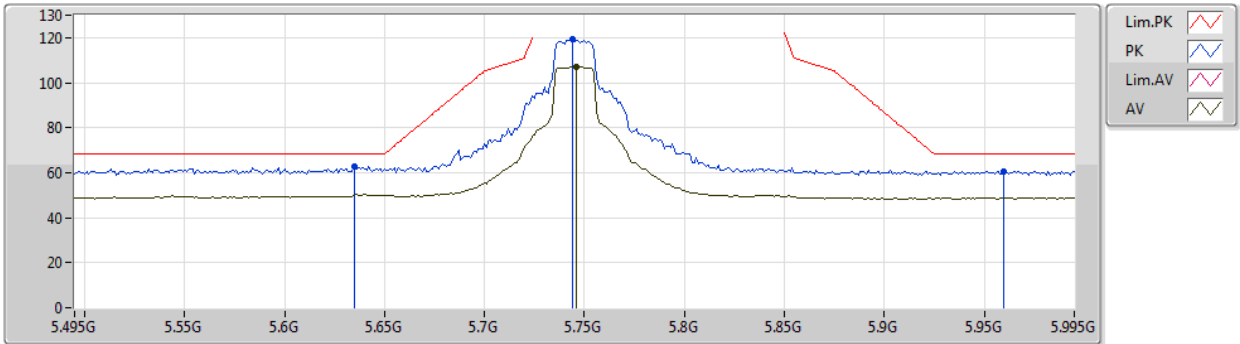
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Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.71676G	61.56	74.00	-12.44	17.13	3	Horizontal	79	1.46	-				
AV	15.71528G	49.05	54.00	-4.95	17.14	3	Horizontal	79	1.46	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

24/06/2019

5745MHz_TX



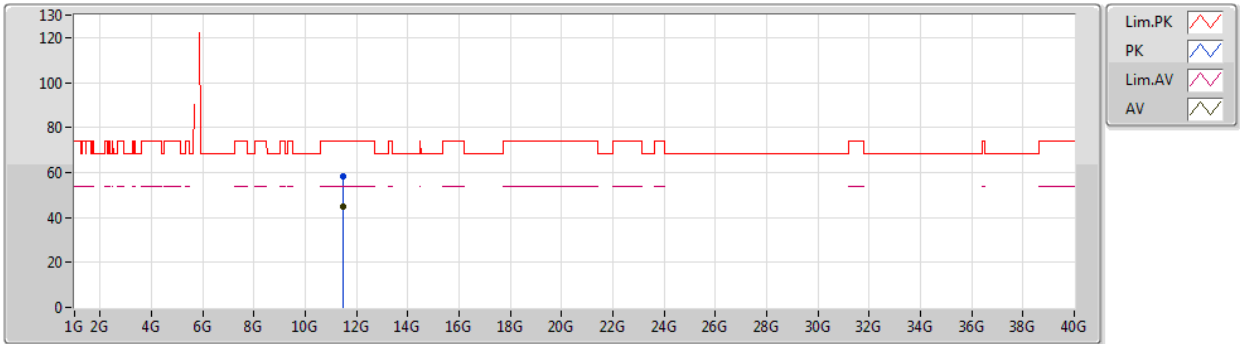
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Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.635G	62.78	68.20	-5.42	7.85	3	Vertical	146	1.98	-
PK	5.744G	119.21	Inf	-Inf	8.01	3	Vertical	146	1.98	-
AV	5.746G	106.93	Inf	-Inf	8.01	3	Vertical	146	1.98	-
PK	5.96G	60.72	68.20	-7.48	8.44	3	Vertical	146	1.98	-

802.11ax HEW20_Nss2,(MCS0)_2TX

03/07/2019

5745MHz_TX



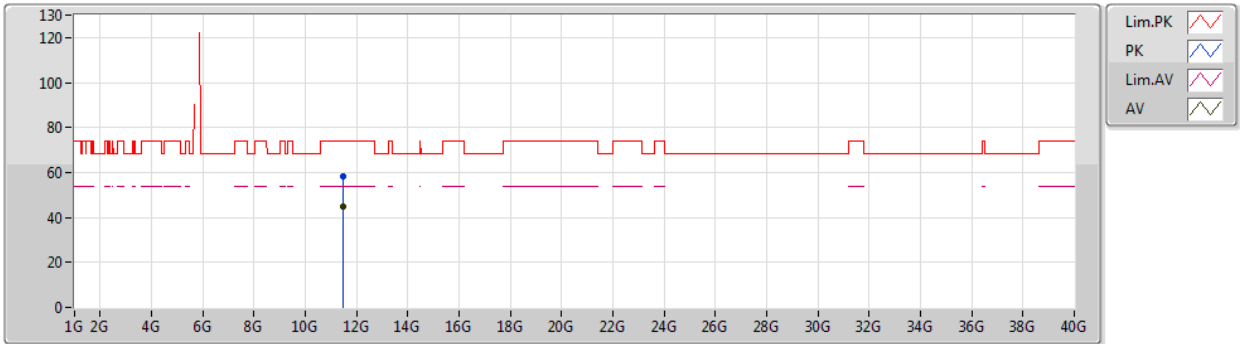
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.49304G	58.49	74.00	-15.51	17.17	3	Vertical	317	2.06	-				
AV	11.48204G	45.07	54.00	-8.93	17.16	3	Vertical	317	2.06	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

03/07/2019

5745MHz_TX



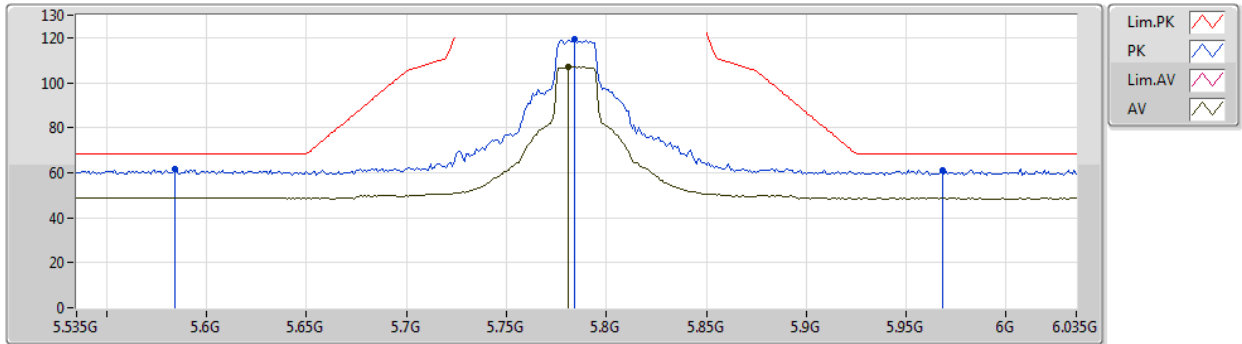
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Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.481G	58.26	74.00	-15.74	17.17	3	Horizontal	149	2.36	-				
AV	11.49264G	45.05	54.00	-8.95	17.17	3	Horizontal	149	2.36	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

24/06/2019

5785MHz_TX



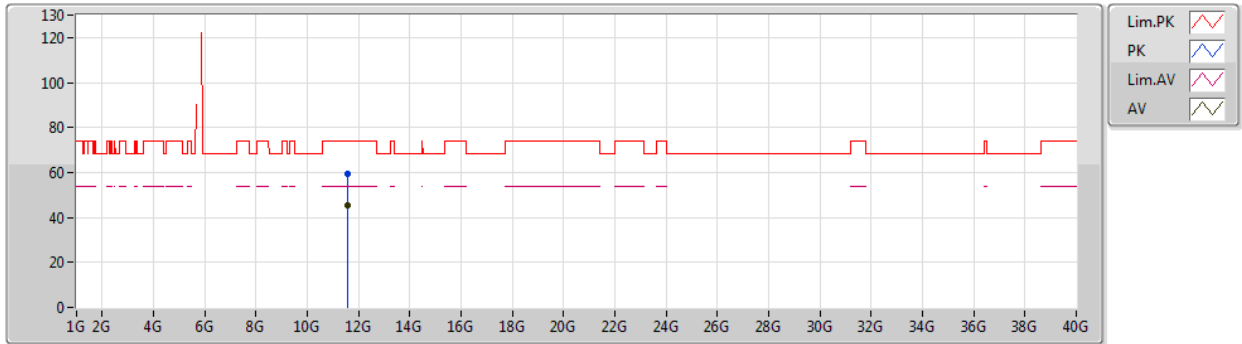
EUT_Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.584G	61.39	68.20	-6.81	7.77	3	Vertical	227	2.05	-
PK	5.784G	119.23	Inf	-Inf	8.07	3	Vertical	227	2.05	-
AV	5.781G	106.86	Inf	-Inf	8.06	3	Vertical	227	2.05	-
PK	5.968G	61.24	68.20	-6.96	8.46	3	Vertical	227	2.05	-

802.11ax HEW20_Nss2,(MCS0)_2TX

03/07/2019

5785MHz_TX



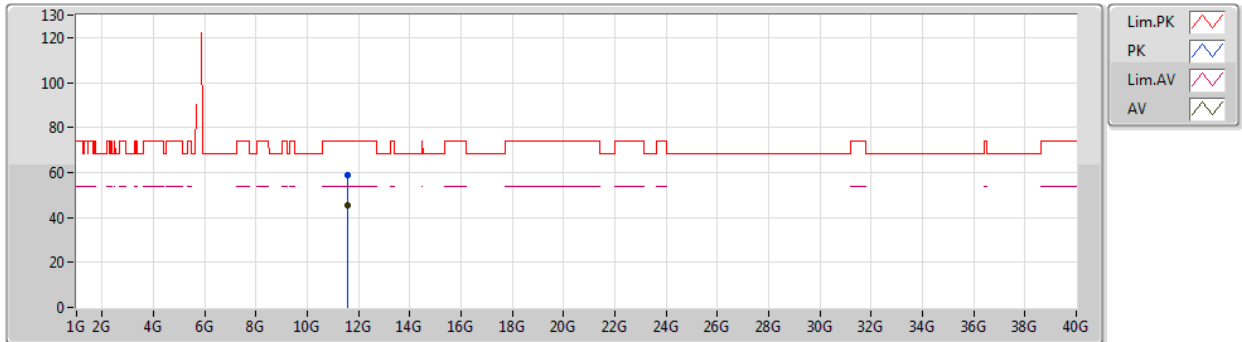
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.57388G	59.43	74.00	-14.57	17.02	3	Vertical	195	2.04	-				
AV	11.56664G	45.42	54.00	-8.58	17.04	3	Vertical	195	2.04	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

03/07/2019

5785MHz_TX



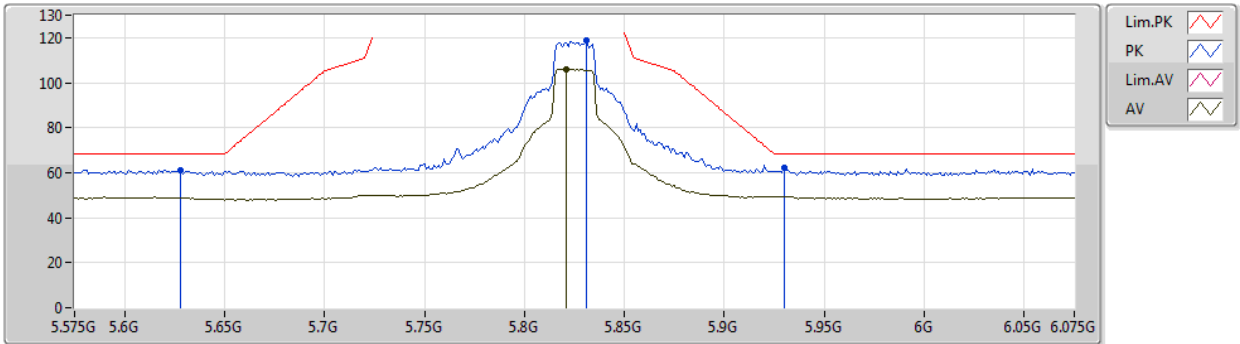
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Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.56584G	58.84	74.00	-15.16	17.04	3	Horizontal	210	2.30	-				
AV	11.57744G	45.61	54.00	-8.39	17.02	3	Horizontal	210	2.30	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

24/06/2019

5825MHz_TX



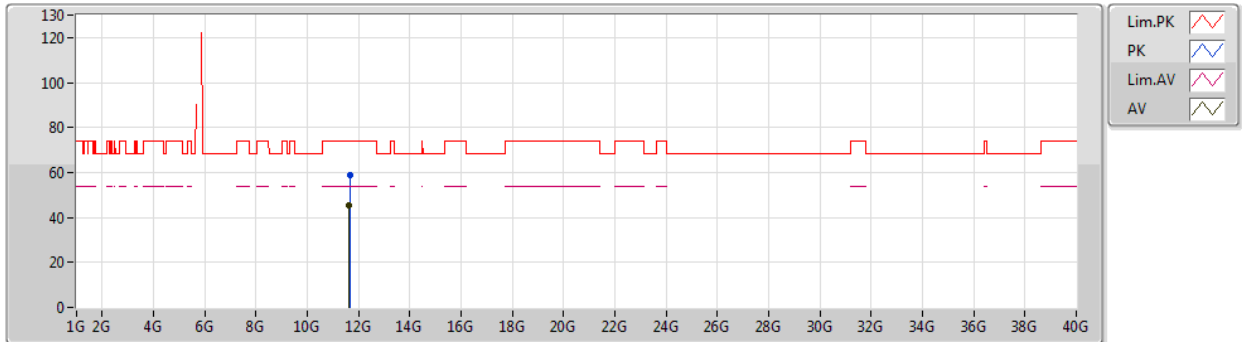
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Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.628G	61.35	68.20	-6.85	7.83	3	Vertical	231	2.05	-				
PK	5.831G	118.90	Inf	-Inf	8.16	3	Vertical	231	2.05	-				
AV	5.821G	106.18	Inf	-Inf	8.14	3	Vertical	231	2.05	-				
PK	5.93G	62.04	68.20	-6.16	8.38	3	Vertical	231	2.05	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

03/07/2019

5825MHz_TX



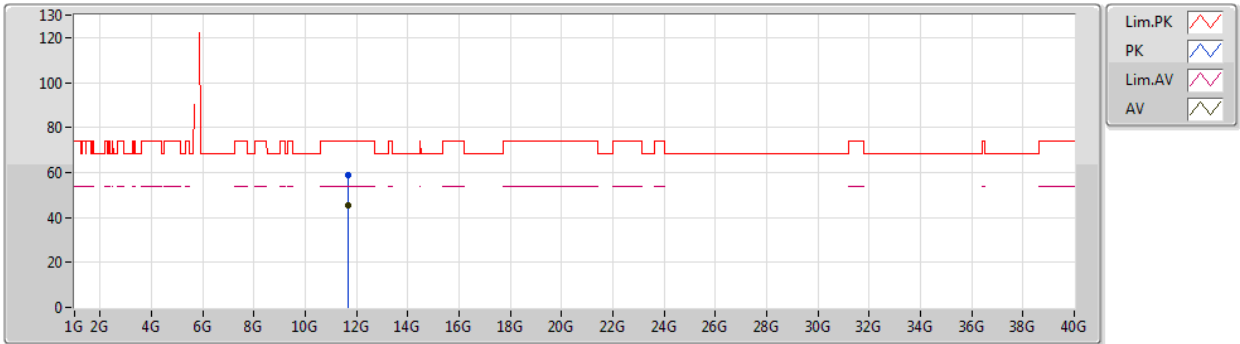
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Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.65976G	58.79	74.00	-15.21	16.87	3	Vertical	127	2.04	-				
AV	11.64148G	45.58	54.00	-8.42	16.90	3	Vertical	127	2.04	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

03/07/2019

5825MHz_TX



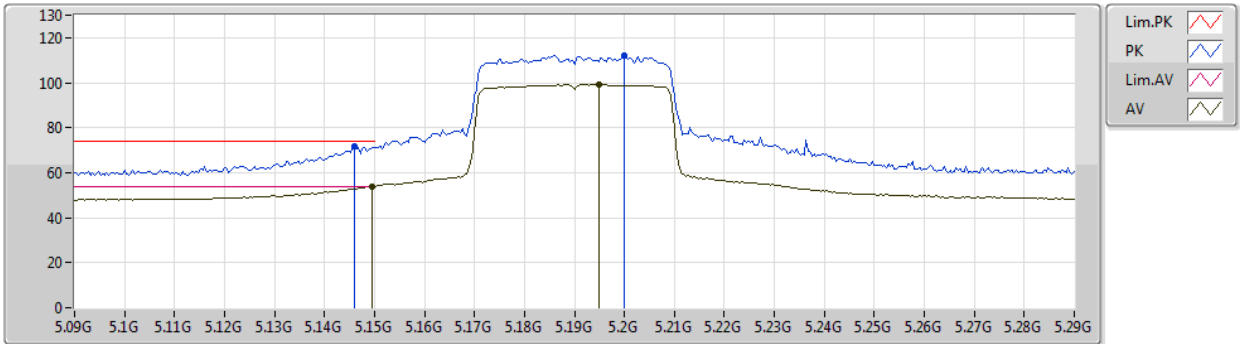
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Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.64876G	58.72	74.00	-15.28	16.88	3	Horizontal	87	1.74	-				
AV	11.64876G	45.52	54.00	-8.48	16.88	3	Horizontal	87	1.74	-				

802.11ax HEW40_Nss2,(MCS0)_2TX

24/06/2019

5190MHz_TX



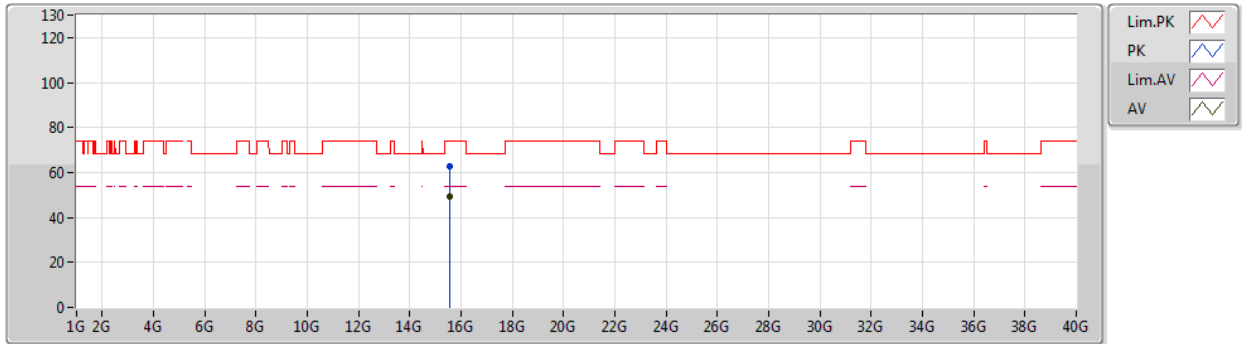
EUT_Z_2TX
Setting 89
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.146G	71.67	74.00	-2.33	7.32	3	Vertical	293	1.40	-				
AV	5.1496G	53.99	54.00	-0.01	7.32	3	Vertical	293	1.40	-				
PK	5.2G	112.21	Inf	-Inf	7.37	3	Vertical	293	1.40	-				
AV	5.1948G	99.21	Inf	-Inf	7.37	3	Vertical	293	1.40	-				

802.11ax HEW40_Nss2,(MCS0)_2TX

03/07/2019

5190MHz_TX



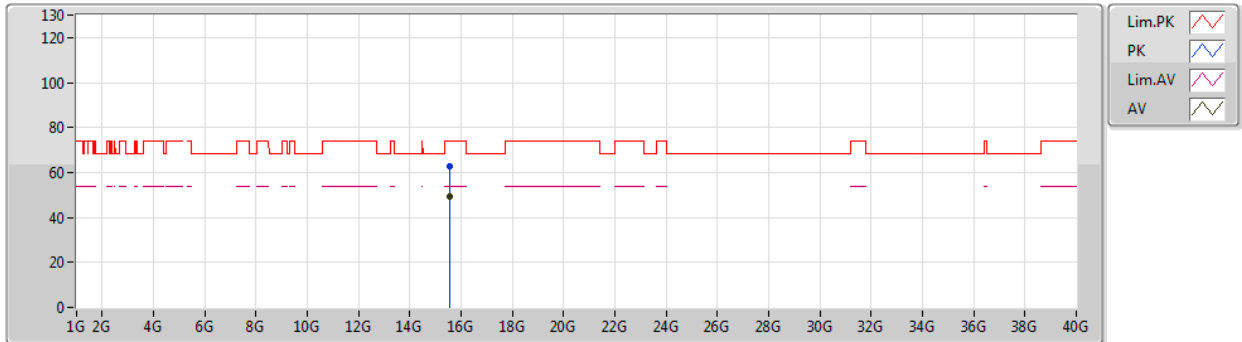
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Setting 89
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.57012G	62.68	74.00	-11.32	17.42	3	Vertical	4	1.66	-				
AV	15.56464G	49.42	54.00	-4.58	17.43	3	Vertical	4	1.66	-				

802.11ax HEW40_Nss2,(MCS0)_2TX

03/07/2019

5190MHz_TX



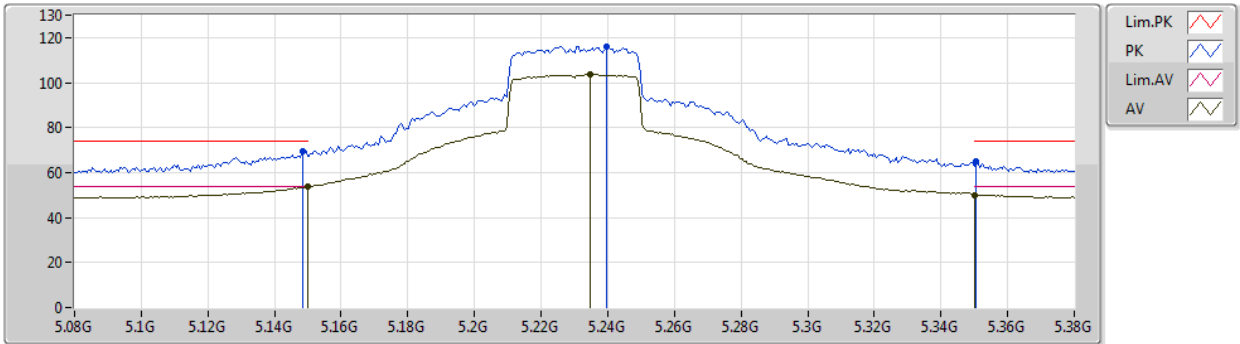
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Setting 89
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.561G	62.86	74.00	-11.14	17.42	3	Horizontal	193	1.55	-				
AV	15.57252G	49.28	54.00	-4.72	17.41	3	Horizontal	193	1.55	-				

802.11ax HEW40_Nss2,(MCS0)_2TX

24/06/2019

5230MHz_TX



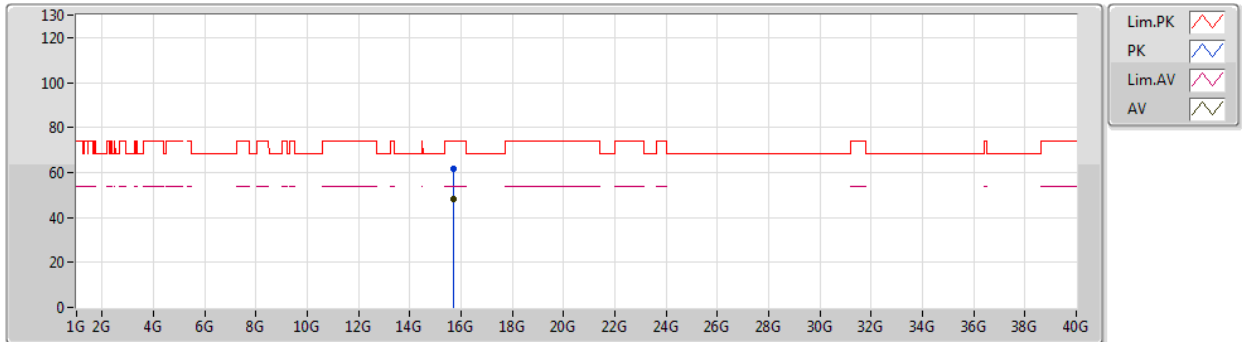
EUT_Z_2TX
Setting 107
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1484G	69.60	74.00	-4.40	7.32	3	Vertical	297	1.46	-
AV	5.15G	53.87	54.00	-0.13	7.32	3	Vertical	297	1.46	-
PK	5.2396G	116.27	Inf	-Inf	7.39	3	Vertical	297	1.46	-
AV	5.2348G	103.49	Inf	-Inf	7.39	3	Vertical	297	1.46	-
PK	5.3506G	64.94	74.00	-9.06	7.47	3	Vertical	297	1.46	-
AV	5.35G	50.15	54.00	-3.85	7.47	3	Vertical	297	1.46	-

802.11ax HEW40_Nss2,(MCS0)_2TX

03/07/2019

5230MHz_TX



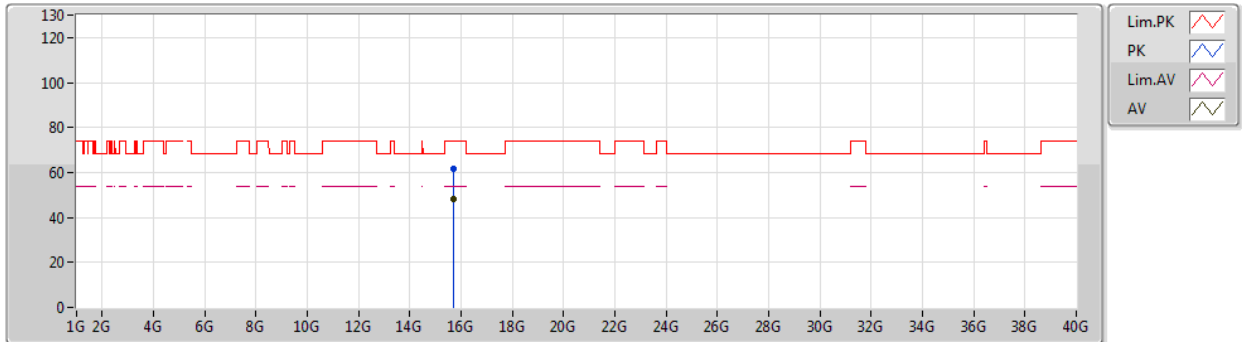
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Setting 107
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	15.6994G	61.77	74.00	-12.23	17.15	3	Vertical	177	1.82	-
AV	15.69392G	48.43	54.00	-5.57	17.18	3	Vertical	177	1.82	-

802.11ax HEW40_Nss2,(MCS0)_2TX

03/07/2019

5230MHz_TX



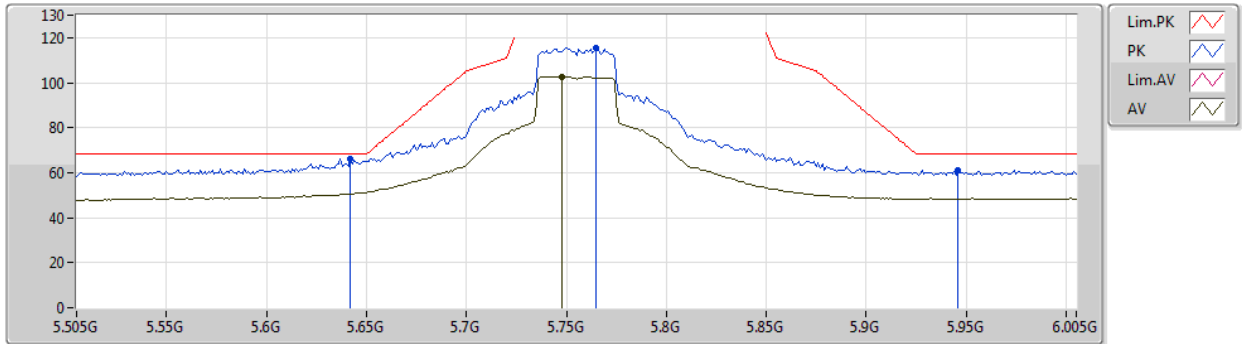
EUT_Z_2TX
Setting 107
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.6956G	61.72	74.00	-12.28	17.16	3	Horizontal	169	2.31	-				
AV	15.68228G	48.37	54.00	-5.63	17.19	3	Horizontal	169	2.31	-				

802.11ax HEW40_Nss2,(MCS0)_2TX

24/06/2019

5755MHz_TX



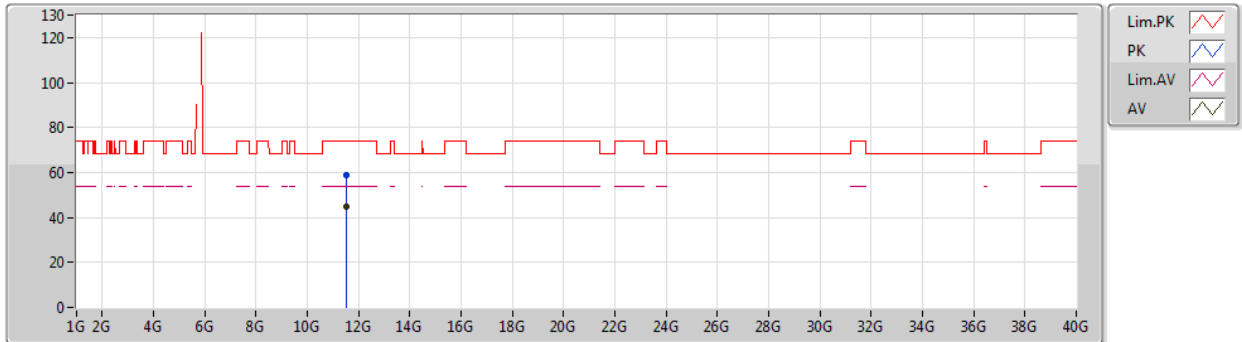
EUT_Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.642G	66.31	68.20	-1.89	7.85	3	Vertical	277	1.00	-
PK	5.765G	115.28	Inf	-Inf	8.04	3	Vertical	277	1.00	-
AV	5.748G	102.78	Inf	-Inf	8.02	3	Vertical	277	1.00	-
PK	5.946G	61.17	68.20	-7.03	8.41	3	Vertical	277	1.00	-

802.11ax HEW40_Nss2,(MCS0)_2TX

03/07/2019

5755MHz_TX



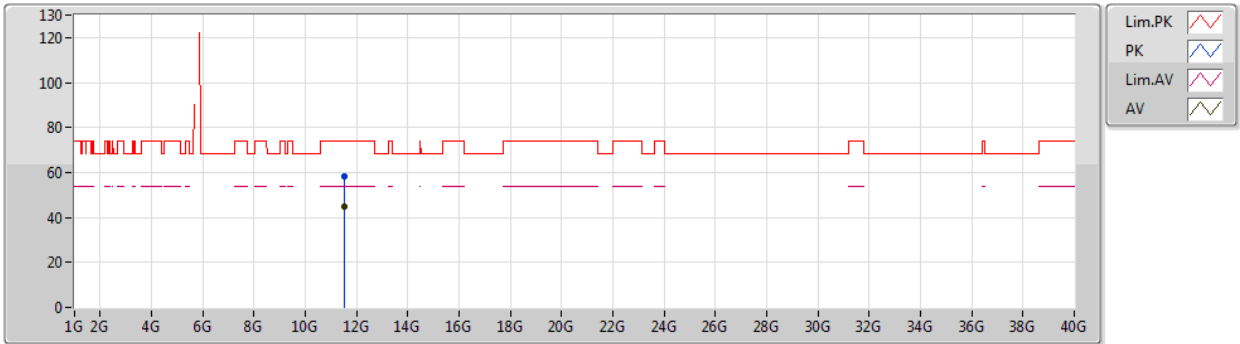
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.5096G	58.63	74.00	-15.37	17.13	3	Vertical	277	1.04	-				
AV	11.51008G	45.07	54.00	-8.93	17.14	3	Vertical	277	1.04	-				

802.11ax HEW40_Nss2,(MCS0)_2TX

03/07/2019

5755MHz_TX



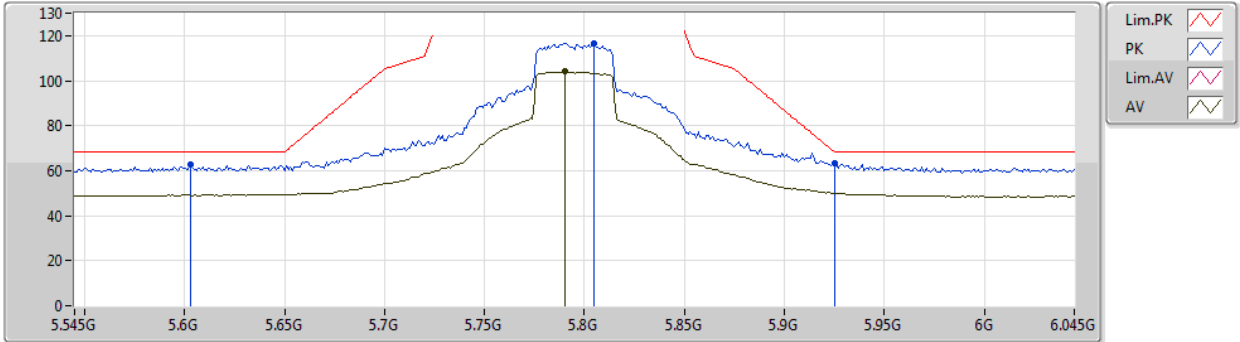
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Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.50432G	58.31	74.00	-15.69	17.14	3	Horizontal	223	1.80	-				
AV	11.51344G	45.08	54.00	-8.92	17.13	3	Horizontal	223	1.80	-				

802.11ax HEW40_Nss2,(MCS0)_2TX

24/06/2019

5795MHz_TX



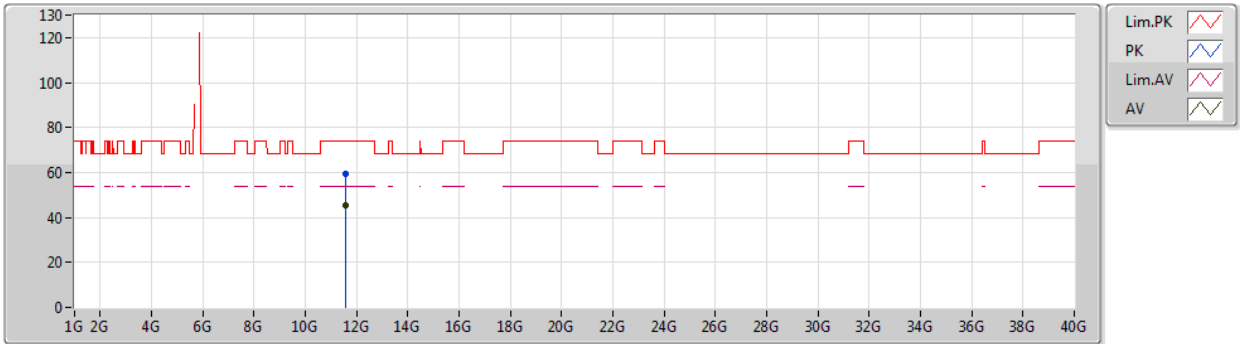
EUT_Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.603G	62.87	68.20	-5.33	7.79	3	Vertical	225	1.95	-
PK	5.805G	116.65	Inf	-Inf	8.11	3	Vertical	225	1.95	-
AV	5.79G	104.02	Inf	-Inf	8.07	3	Vertical	225	1.95	-
PK	5.925G	63.44	68.20	-4.76	8.37	3	Vertical	225	1.95	-

802.11ax HEW40_Nss2,(MCS0)_2TX

03/07/2019

5795MHz_TX



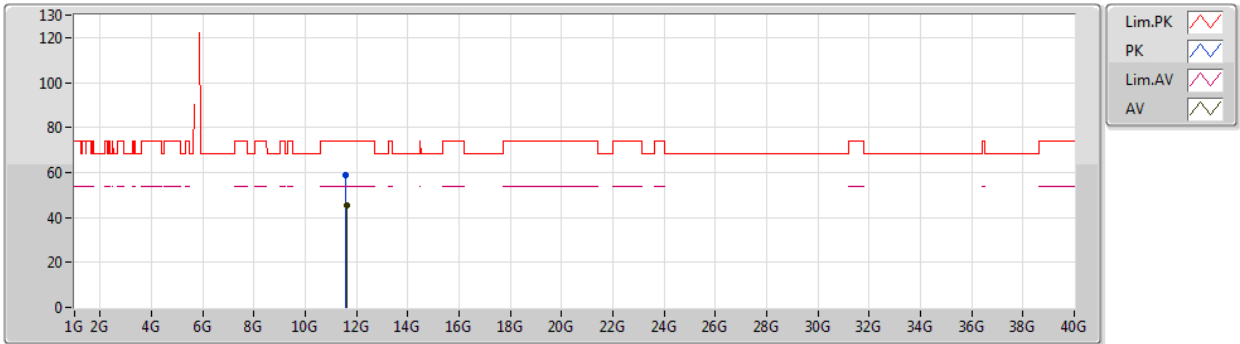
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.59696G	59.20	74.00	-14.80	16.99	3	Vertical	16	1.87	-				
AV	11.59828G	45.47	54.00	-8.53	16.98	3	Vertical	16	1.87	-				

802.11ax HEW40_Nss2,(MCS0)_2TX

03/07/2019

5795MHz_TX



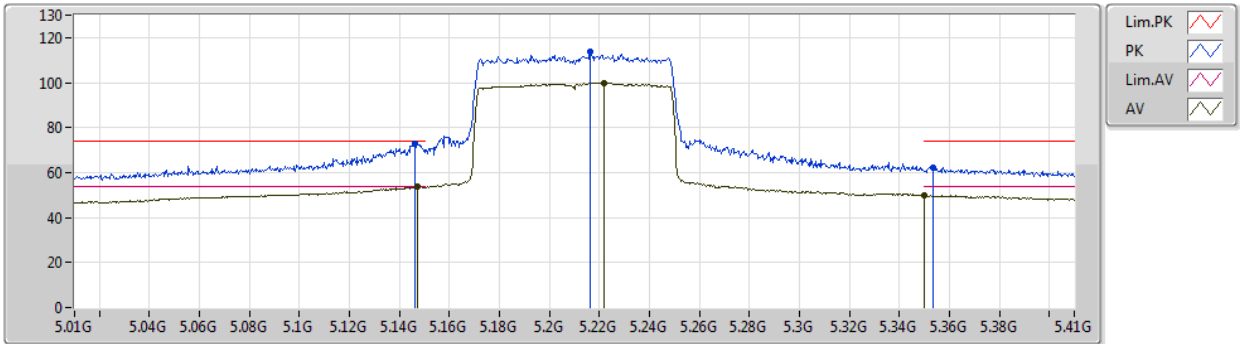
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.59252G	59.02	74.00	-14.98	16.99	3	Horizontal	175	1.77	-				
AV	11.6G	45.36	54.00	-8.64	16.98	3	Horizontal	175	1.77	-				

802.11ax HEW80_Nss2,(MCS0)_2TX

18/06/2019

5210MHz_TX



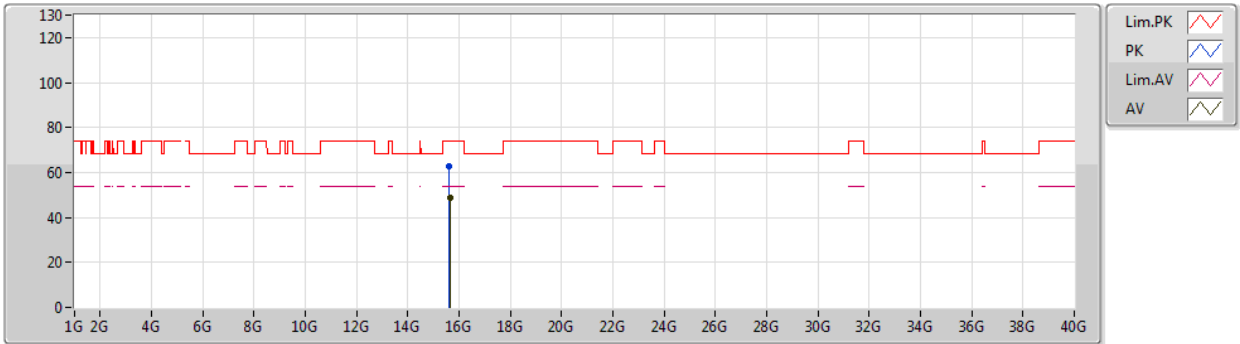
EUT_Z_2TX
Setting 85
03-C-5-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1464G	72.60	74.00	-1.40	5.83	3	Vertical	33	1.22	-
AV	5.1472G	53.89	54.00	-0.11	5.83	3	Vertical	33	1.22	-
PK	5.2164G	113.49	Inf	-Inf	5.96	3	Vertical	33	1.22	-
AV	5.222G	99.98	Inf	-Inf	5.97	3	Vertical	33	1.22	-
PK	5.3536G	62.41	74.00	-11.59	6.31	3	Vertical	33	1.22	-
AV	5.35G	49.99	54.00	-4.01	6.31	3	Vertical	33	1.22	-

802.11ax HEW80_Nss2,(MCS0)_2TX

03/07/2019

5210MHz_TX



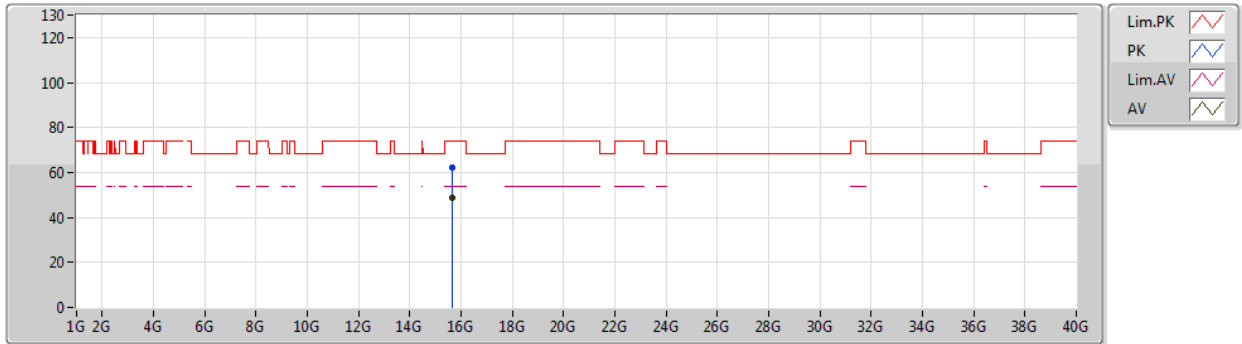
EUT_Z_2TX
Setting 85
03-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.6257G	62.49	74.00	-11.51	17.33	3	Vertical	112	1.34	-				
AV	15.63288G	48.91	54.00	-5.09	17.31	3	Vertical	112	1.34	-				

802.11ax HEW80_Nss2,(MCS0)_2TX

03/07/2019

5210MHz_TX



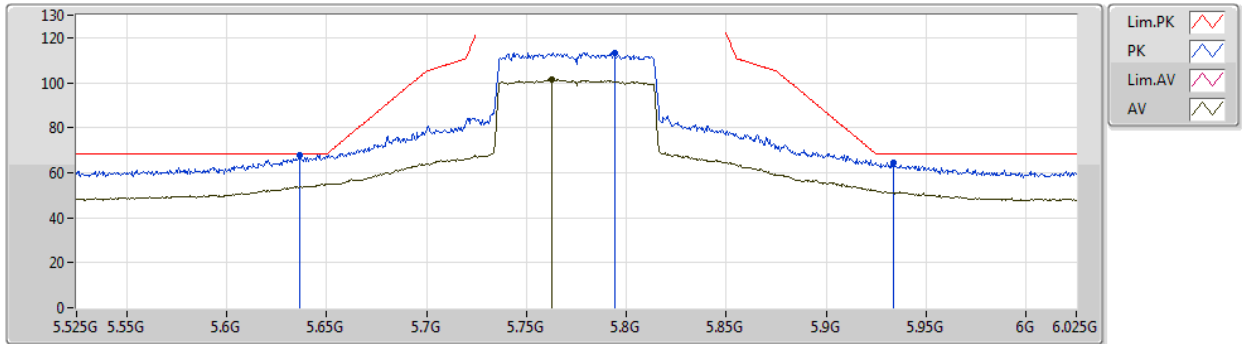
EUT_Z_2TX
Setting 85
03-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.6369G	62.32	74.00	-11.68	17.30	3	Horizontal	249	1.28	-				
AV	15.6326G	48.95	54.00	-5.05	17.31	3	Horizontal	249	1.28	-				

802.11ax HEW80_Nss2,(MCS0)_2TX

18/06/2019

5775MHz_TX



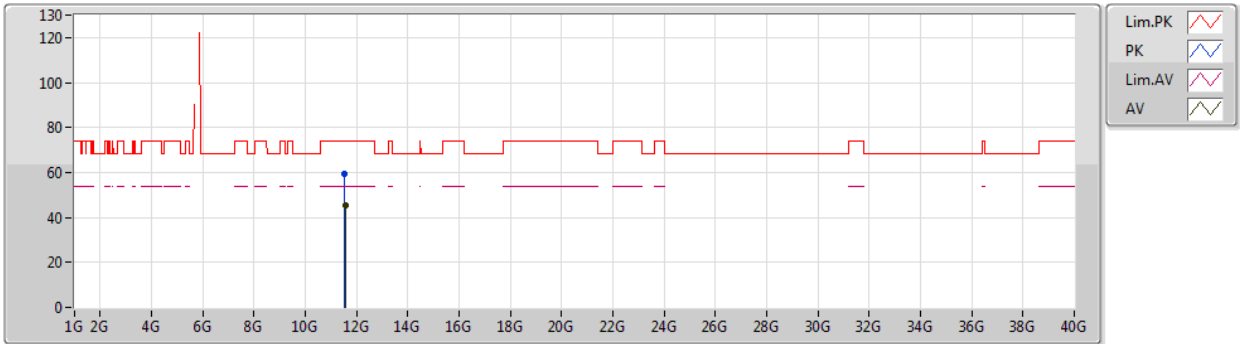
EUT_Z_2TX
Setting 94
03-C-5-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.6365G	67.75	68.20	-0.45	6.37	3	Vertical	208	1.91	-
PK	5.794G	113.42	Inf	-Inf	6.45	3	Vertical	208	1.91	-
AV	5.763G	101.65	Inf	-Inf	6.43	3	Vertical	208	1.91	-
PK	5.9335G	64.41	68.20	-3.79	6.84	3	Vertical	208	1.91	-

802.11ax HEW80_Nss2,(MCS0)_2TX

03/07/2019

5775MHz_TX



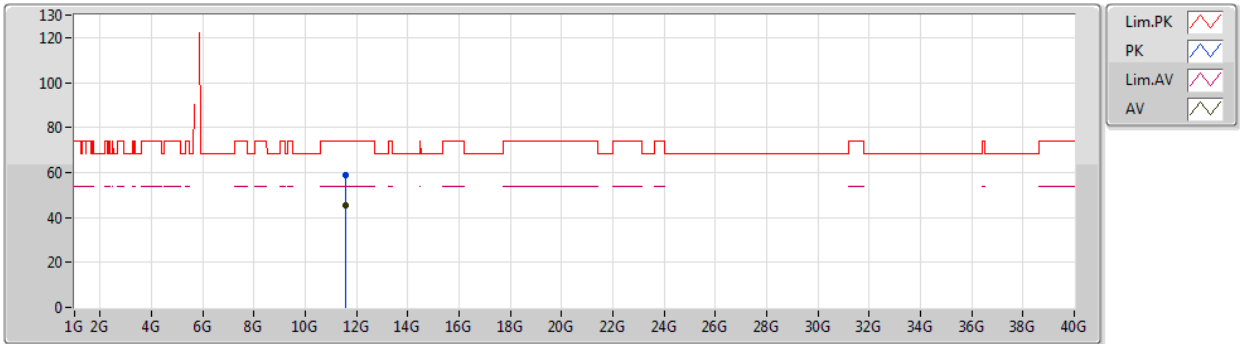
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Setting 94
03-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.5414G	59.14	74.00	-14.86	17.08	3	Vertical	331	2.24	-				
AV	11.55886G	45.29	54.00	-8.71	17.05	3	Vertical	331	2.24	-				

802.11ax HEW80_Nss2,(MCS0)_2TX

03/07/2019

5775MHz_TX



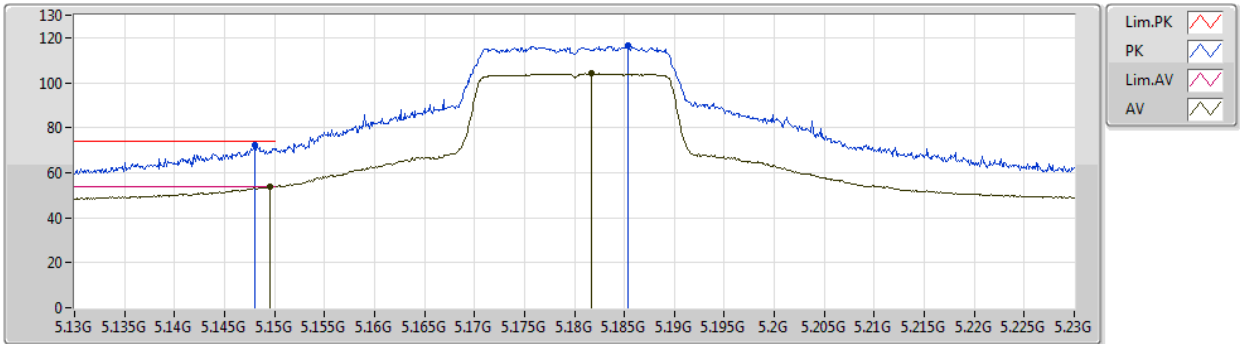
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Setting 94
03-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.5571G	58.69	74.00	-15.31	17.06	3	Horizontal	139	1.03	-				
AV	11.55996G	45.19	54.00	-8.81	17.05	3	Horizontal	139	1.03	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

24/06/2019

5180MHz_TX



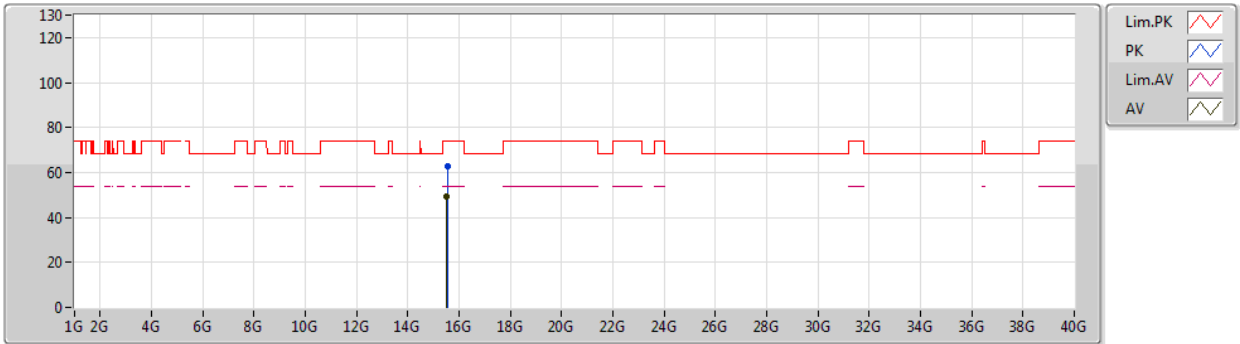
EUT Z_2TX
Setting 93
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.148G	72.02	74.00	-1.98	7.32	3	Vertical	295	1.30	-
AV	5.1495G	53.98	54.00	-0.02	7.32	3	Vertical	295	1.30	-
PK	5.1853G	116.40	Inf	-Inf	7.36	3	Vertical	295	1.30	-
AV	5.1817G	104.04	Inf	-Inf	7.35	3	Vertical	295	1.30	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

03/07/2019

5180MHz_TX



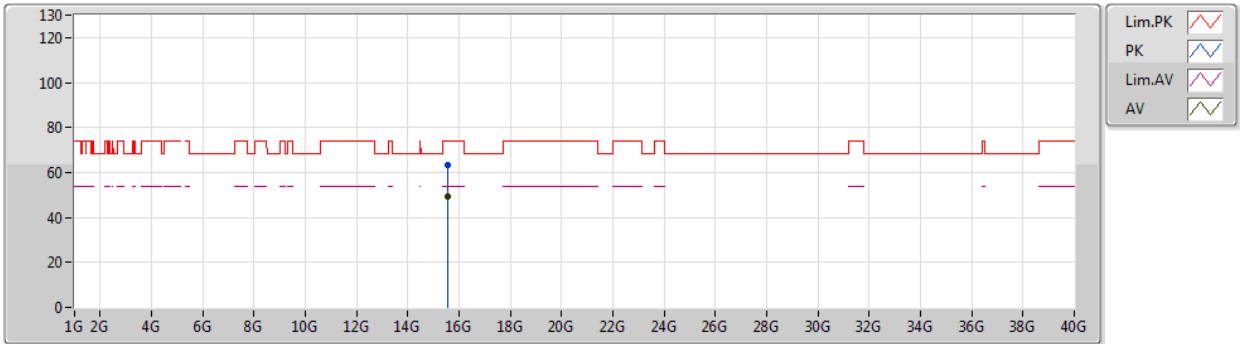
EUT_Z_2TX
Setting 93
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.5459G	62.49	74.00	-11.51	17.45	3	Vertical	51	1.06	-				
AV	15.53006G	49.06	54.00	-4.94	17.46	3	Vertical	51	1.06	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

03/07/2019

5180MHz_TX



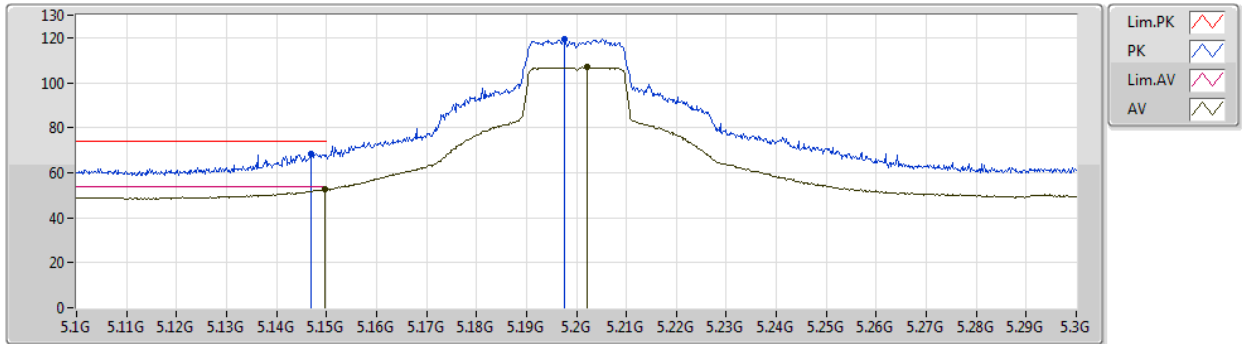
EUT_Z_2TX
Setting 93
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.54944G	63.15	74.00	-10.85	17.44	3	Horizontal	289	1.82	-				
AV	15.54384G	49.17	54.00	-4.83	17.45	3	Horizontal	289	1.82	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

24/06/2019

5200MHz_TX



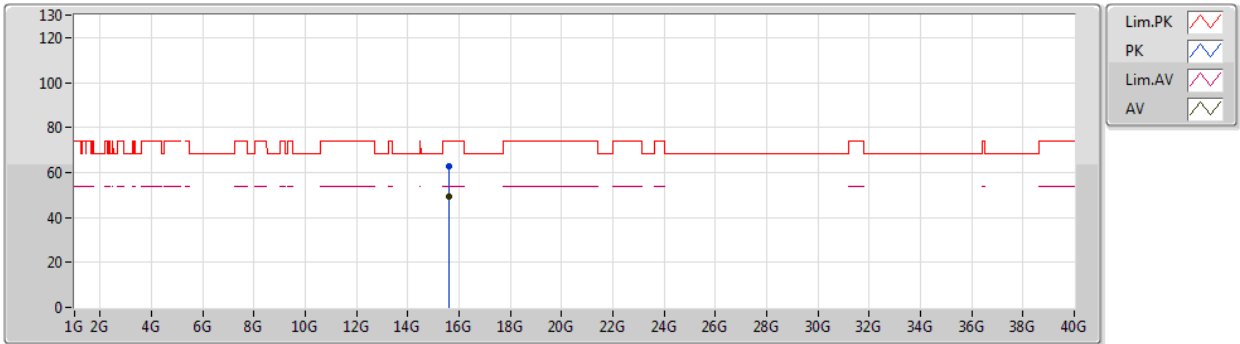
EUT_Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1468G	68.44	74.00	-5.56	7.32	3	Vertical	292	1.39	-				
AV	5.1496G	52.73	54.00	-1.27	7.32	3	Vertical	292	1.39	-				
PK	5.1976G	119.30	Inf	-Inf	7.37	3	Vertical	292	1.39	-				
AV	5.2022G	106.80	Inf	-Inf	7.37	3	Vertical	292	1.39	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

03/07/2019

5200MHz_TX



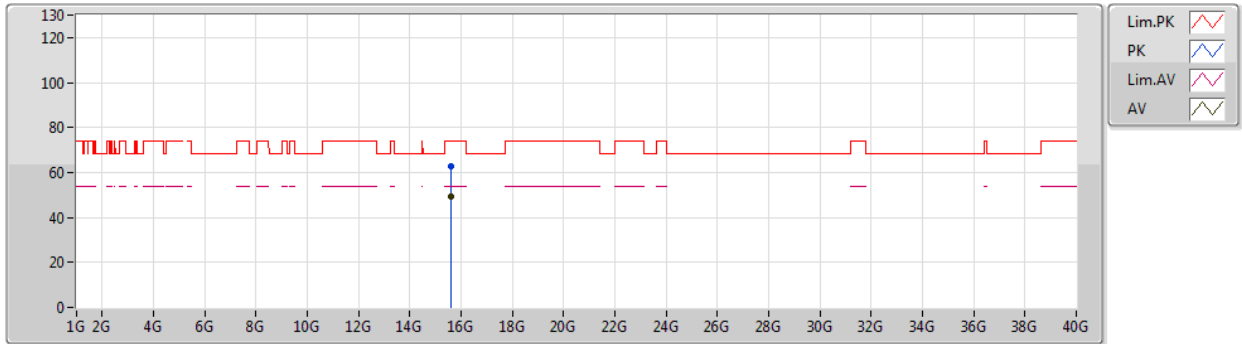
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.59234G	62.72	74.00	-11.28	17.38	3	Vertical	55	2.39	-				
AV	15.59754G	49.05	54.00	-4.95	17.37	3	Vertical	55	2.39	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

03/07/2019

5200MHz_TX



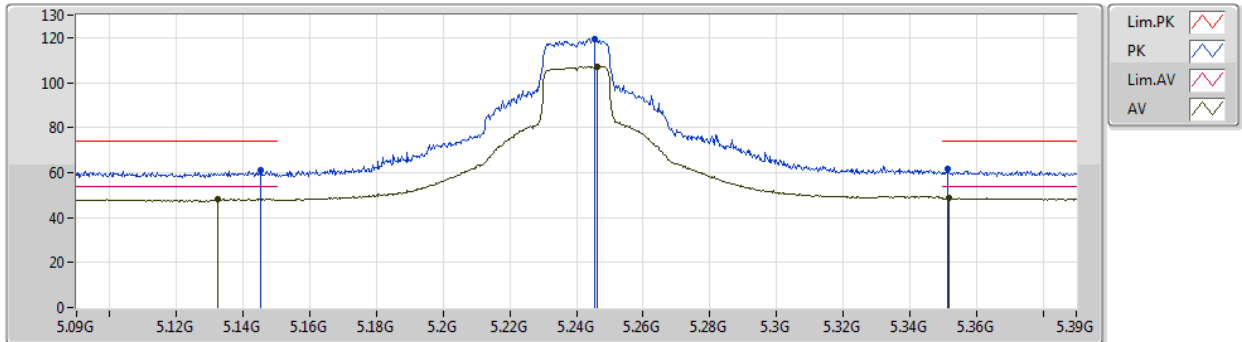
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.60302G	62.79	74.00	-11.21	17.37	3	Horizontal	235	1.38	-				
AV	15.598G	49.08	54.00	-4.92	17.37	3	Horizontal	235	1.38	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

24/06/2019

5240MHz_TX



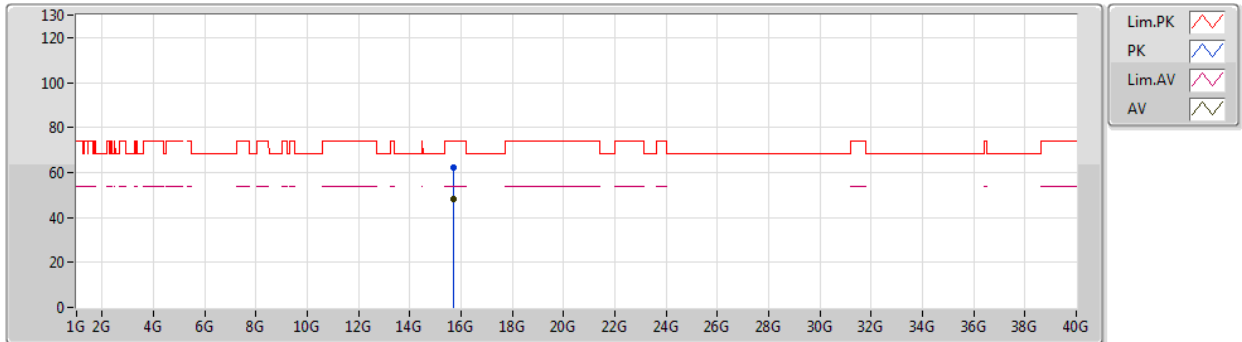
EUT_Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1452G	60.99	74.00	-13.01	7.32	3	Vertical	298	1.84	-
AV	5.1323G	48.27	54.00	-5.73	7.30	3	Vertical	298	1.84	-
PK	5.2454G	119.39	Inf	-Inf	7.41	3	Vertical	298	1.84	-
AV	5.2463G	107.21	Inf	-Inf	7.41	3	Vertical	298	1.84	-
PK	5.3516G	61.43	74.00	-12.57	7.47	3	Vertical	298	1.84	-
AV	5.3519G	48.60	54.00	-5.40	7.47	3	Vertical	298	1.84	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

03/07/2019

5240MHz_TX



EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

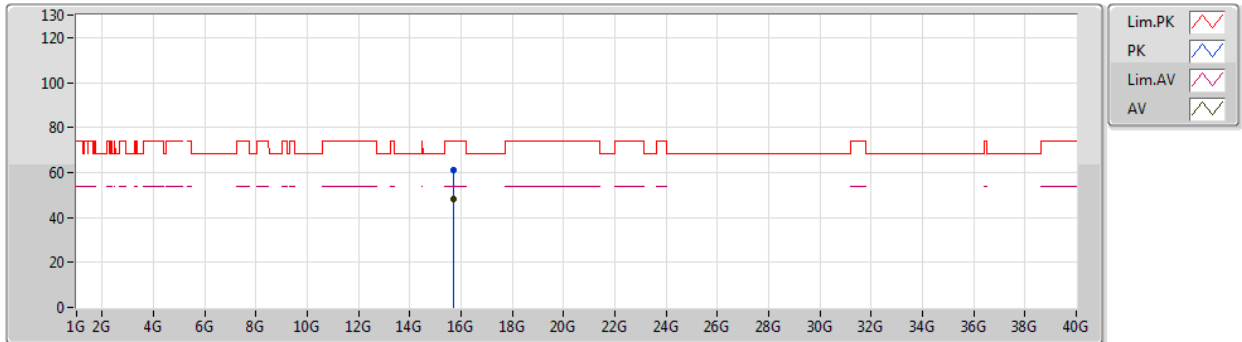
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	15.72302G	62.21	74.00	-11.79	17.12	3	Vertical	84	2.47	-
AV	15.7135G	48.18	54.00	-5.82	17.14	3	Vertical	84	2.47	-



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

03/07/2019

5240MHz_TX



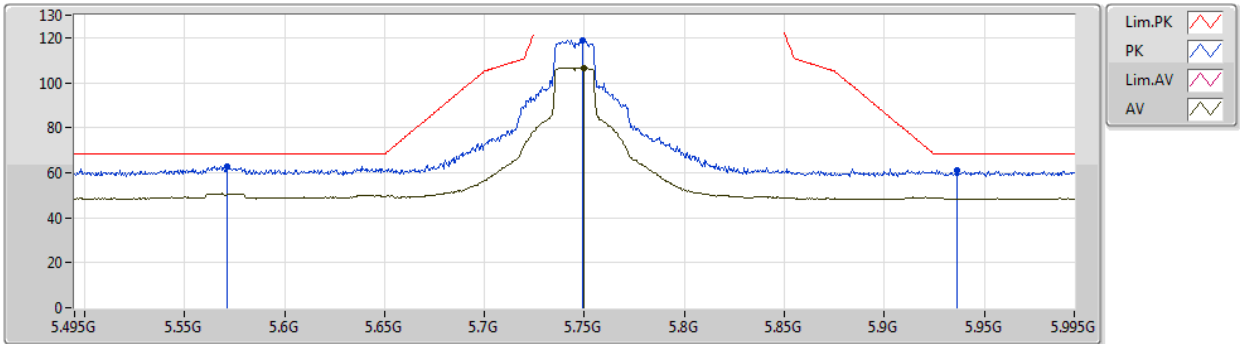
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.72574G	61.23	74.00	-12.77	17.13	3	Horizontal	119	1.43	-				
AV	15.71796G	48.10	54.00	-5.90	17.13	3	Horizontal	119	1.43	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

24/06/2019

5745MHz_TX



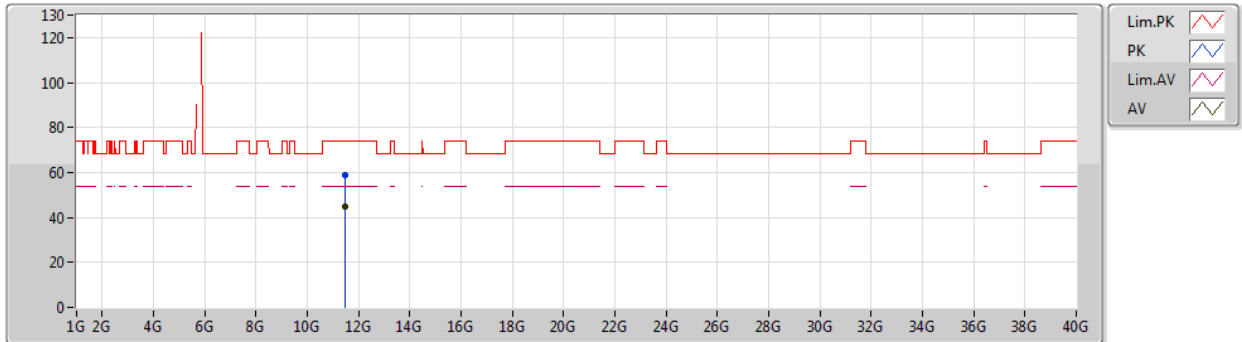
EUT_Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.571G	62.80	68.20	-5.40	7.73	3	Vertical	147	1.99	-
PK	5.749G	118.75	Inf	-Inf	8.02	3	Vertical	147	1.99	-
AV	5.7495G	106.67	Inf	-Inf	8.02	3	Vertical	147	1.99	-
PK	5.9365G	60.96	68.20	-7.24	8.39	3	Vertical	147	1.99	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

03/07/2019

5745MHz_TX



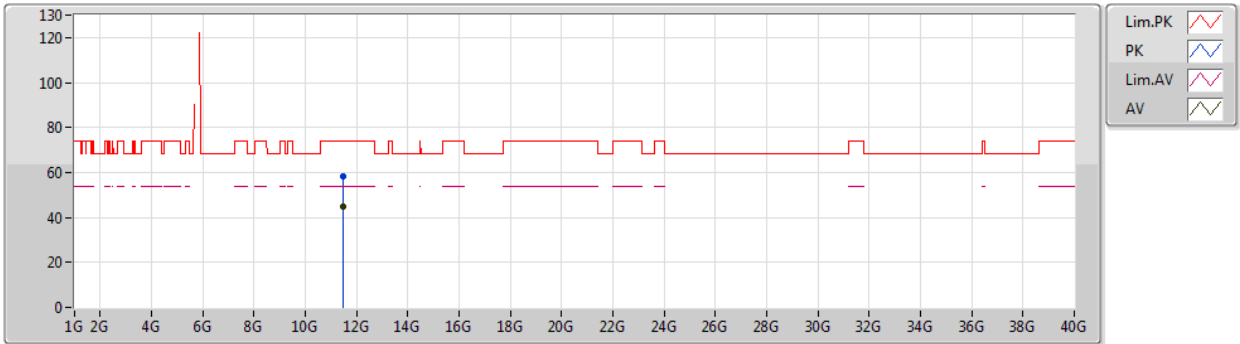
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.48008G	58.82	74.00	-15.18	17.17	3	Vertical	149	1.36	-				
AV	11.48436G	44.91	54.00	-9.09	17.16	3	Vertical	149	1.36	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

03/07/2019

5745MHz_TX



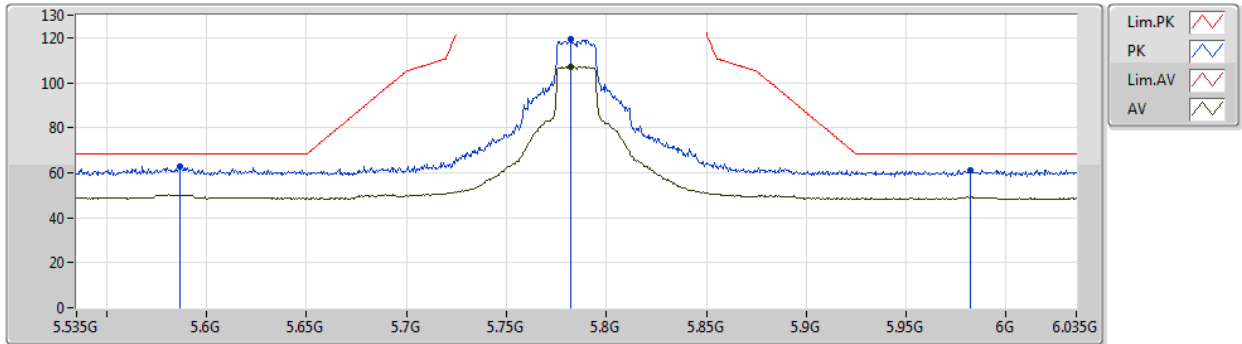
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.49724G	58.13	74.00	-15.87	17.16	3	Horizontal	89	1.18	-				
AV	11.49124G	44.84	54.00	-9.16	17.17	3	Horizontal	89	1.18	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

24/06/2019

5785MHz_TX



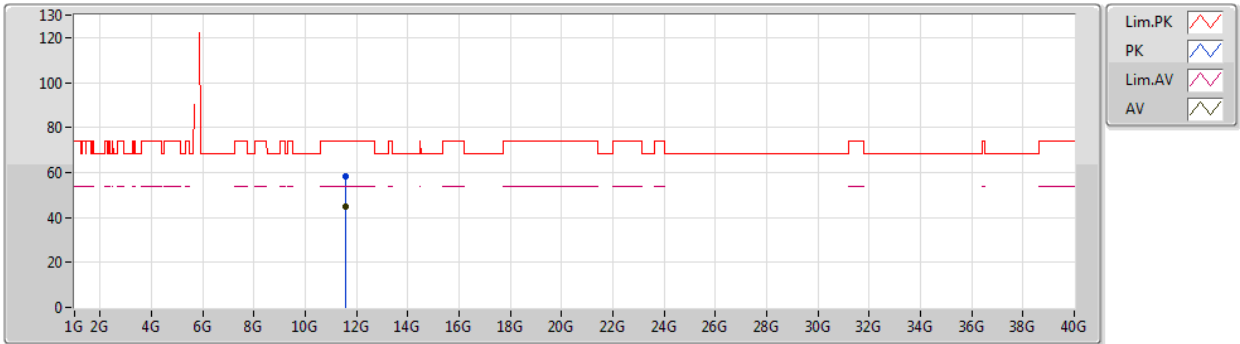
EUT_Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.5865G	62.84	68.20	-5.36	7.77	3	Vertical	227	2.04	-
PK	5.782G	119.17	Inf	-Inf	8.06	3	Vertical	227	2.04	-
AV	5.782G	107.03	Inf	-Inf	8.06	3	Vertical	227	2.04	-
PK	5.982G	60.96	68.20	-7.24	8.49	3	Vertical	227	2.04	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

03/07/2019

5785MHz_TX



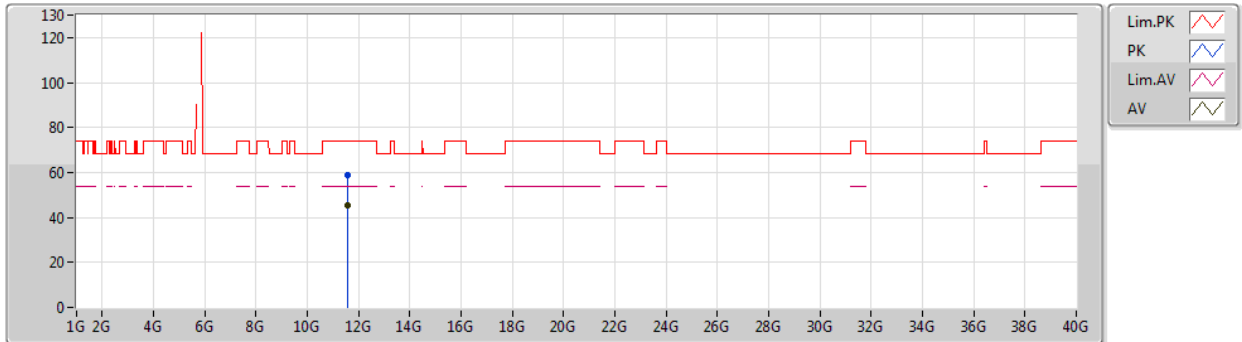
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.56214G	58.05	74.00	-15.95	17.05	3	Vertical	58	1.11	-				
AV	11.57642G	45.02	54.00	-8.98	17.02	3	Vertical	58	1.11	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

03/07/2019

5785MHz_TX



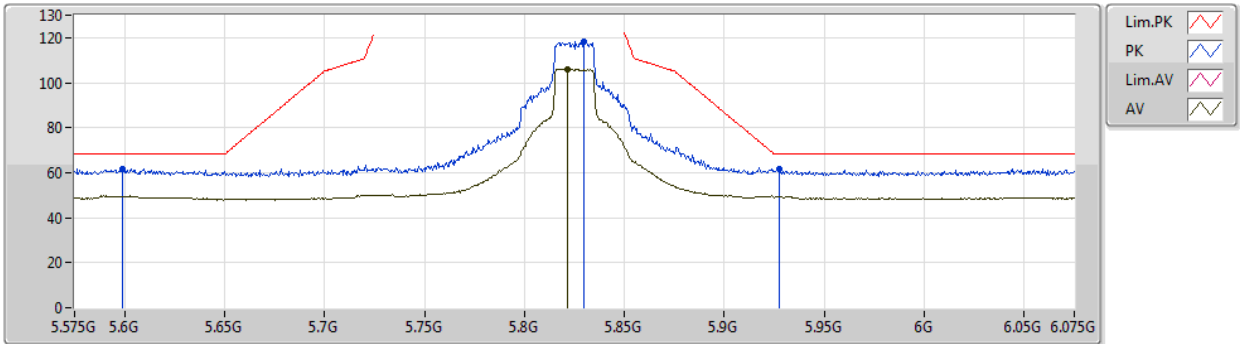
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.56736G	58.80	74.00	-15.20	17.04	3	Horizontal	131	1.51	-				
AV	11.57658G	45.18	54.00	-8.82	17.02	3	Horizontal	131	1.51	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

24/06/2019

5825MHz_TX



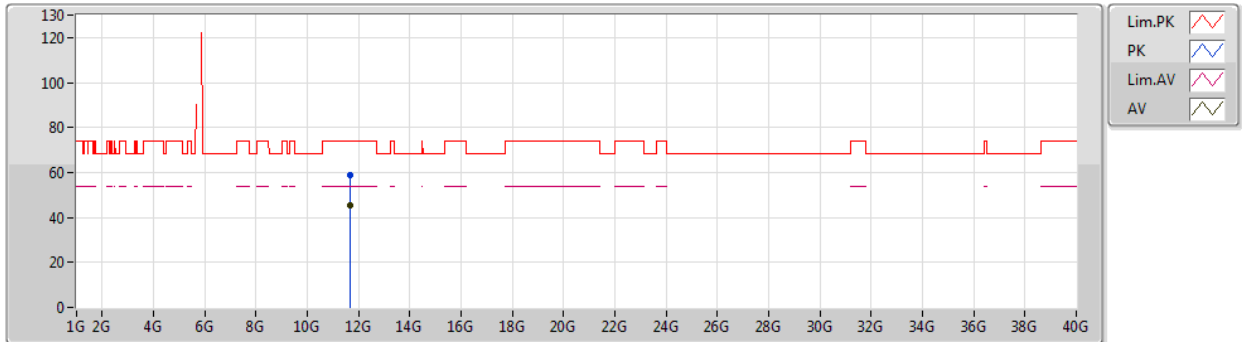
EUT_Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.599G	61.57	68.20	-6.63	7.79	3	Vertical	227	2.03	-
PK	5.83G	118.15	Inf	-Inf	8.16	3	Vertical	227	2.03	-
AV	5.8215G	106.18	Inf	-Inf	8.14	3	Vertical	227	2.03	-
PK	5.9275G	61.37	68.20	-6.83	8.37	3	Vertical	227	2.03	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

03/07/2019

5825MHz_TX



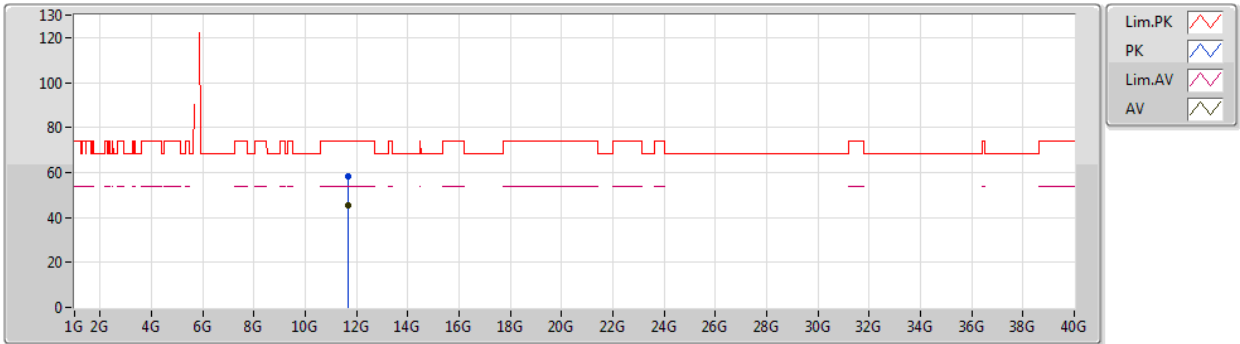
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	11.65952G	58.90	74.00	-15.10	16.87	3	Vertical	32	1.64	-
AV	11.65984G	45.35	54.00	-8.65	16.87	3	Vertical	32	1.64	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

03/07/2019

5825MHz_TX



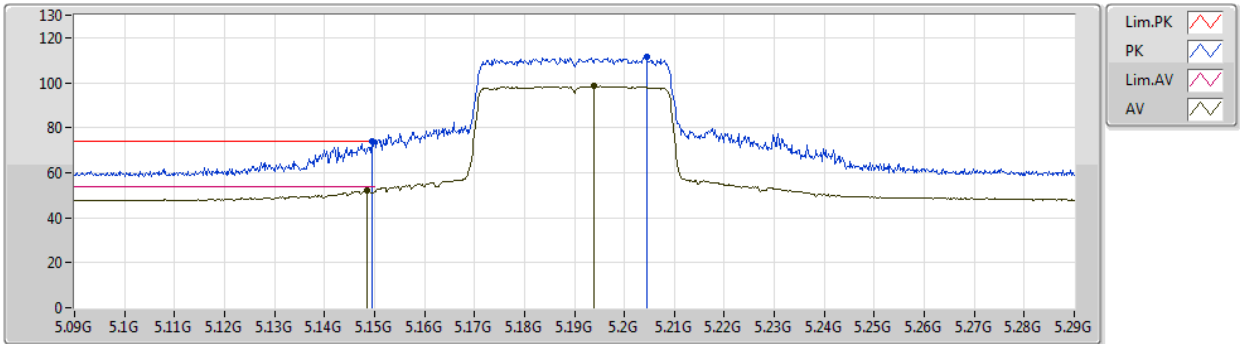
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.65954G	58.53	74.00	-15.47	16.87	3	Horizontal	253	1.78	-				
AV	11.65402G	45.28	54.00	-8.72	16.88	3	Horizontal	253	1.78	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

24/06/2019

5190MHz_TX



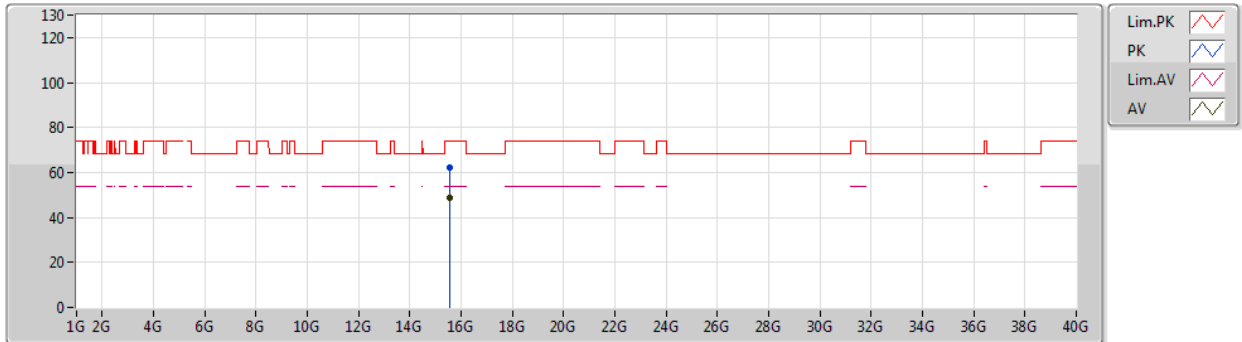
EUT_Z_2TX
Setting 83
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1494G	73.93	74.00	-0.07	7.32	3	Vertical	296	1.50	-				
AV	5.1486G	52.02	54.00	-1.98	7.32	3	Vertical	296	1.50	-				
PK	5.2044G	111.52	Inf	-Inf	7.37	3	Vertical	296	1.50	-				
AV	5.194G	98.36	Inf	-Inf	7.36	3	Vertical	296	1.50	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

03/07/2019

5190MHz_TX



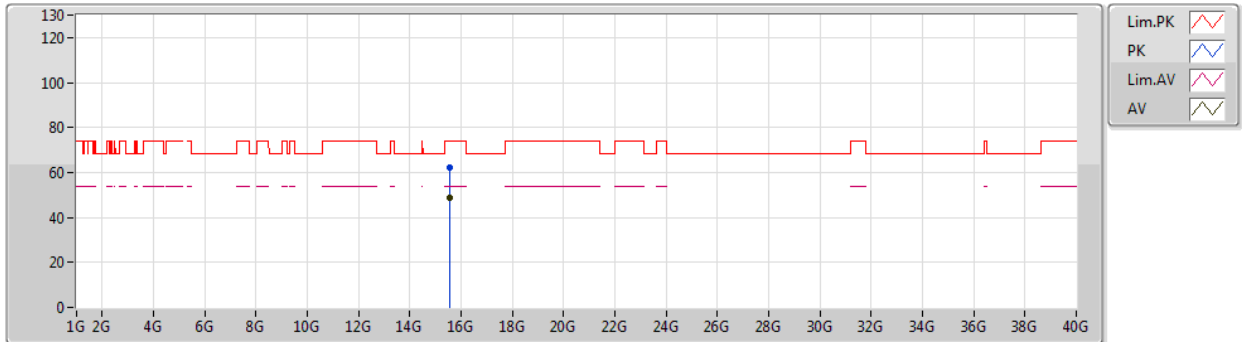
EUT_Z_2TX
Setting 83
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	15.57666G	62.22	74.00	-11.78	17.41	3	Vertical	189	1.22	-
AV	15.57586G	48.56	54.00	-5.44	17.41	3	Vertical	189	1.22	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

03/07/2019

5190MHz_TX



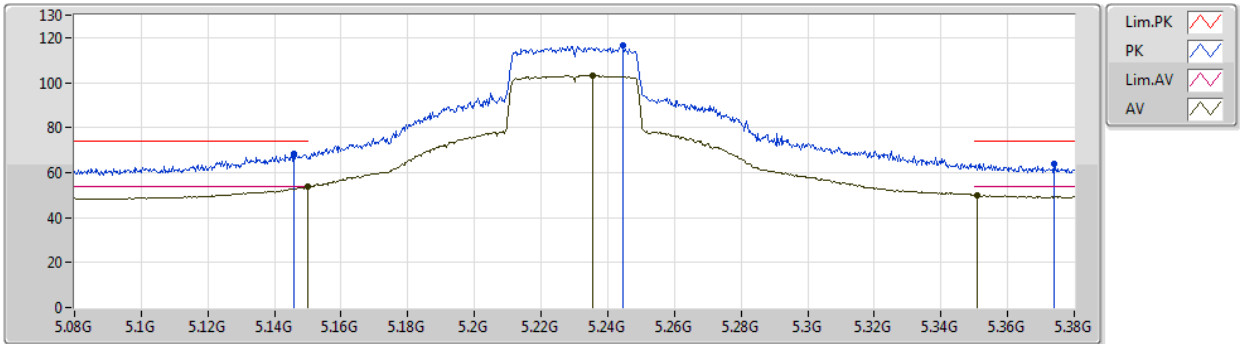
EUT_Z_2TX
Setting 83
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.56198G	62.17	74.00	-11.83	17.43	3	Horizontal	237	2.41	-				
AV	15.57126G	48.58	54.00	-5.42	17.42	3	Horizontal	237	2.41	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

24/06/2019

5230MHz_TX



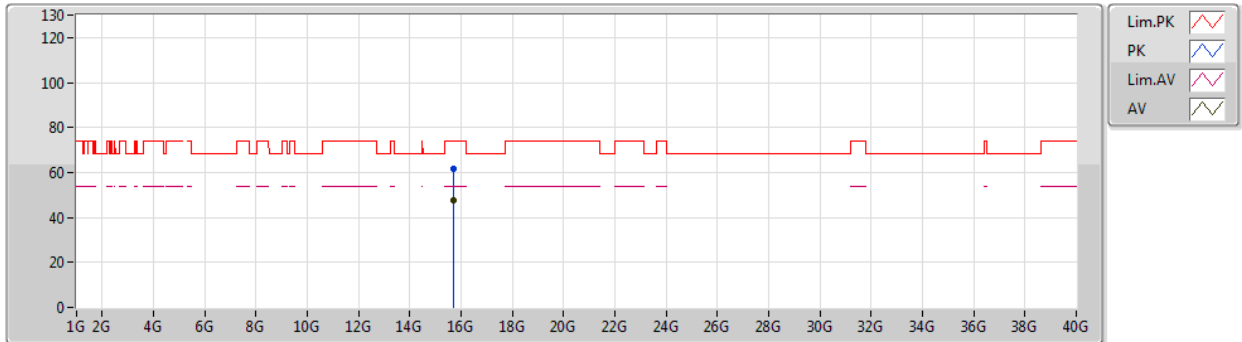
EUT_Z_2TX
Setting 104
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1457G	68.10	74.00	-5.90	7.32	3	Vertical	300	1.68	-
AV	5.1499G	53.87	54.00	-0.13	7.32	3	Vertical	300	1.68	-
PK	5.2444G	116.31	Inf	-Inf	7.41	3	Vertical	300	1.68	-
AV	5.2354G	103.12	Inf	-Inf	7.39	3	Vertical	300	1.68	-
PK	5.374G	63.95	74.00	-10.05	7.48	3	Vertical	300	1.68	-
AV	5.3509G	49.90	54.00	-4.10	7.47	3	Vertical	300	1.68	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

03/07/2019

5230MHz_TX



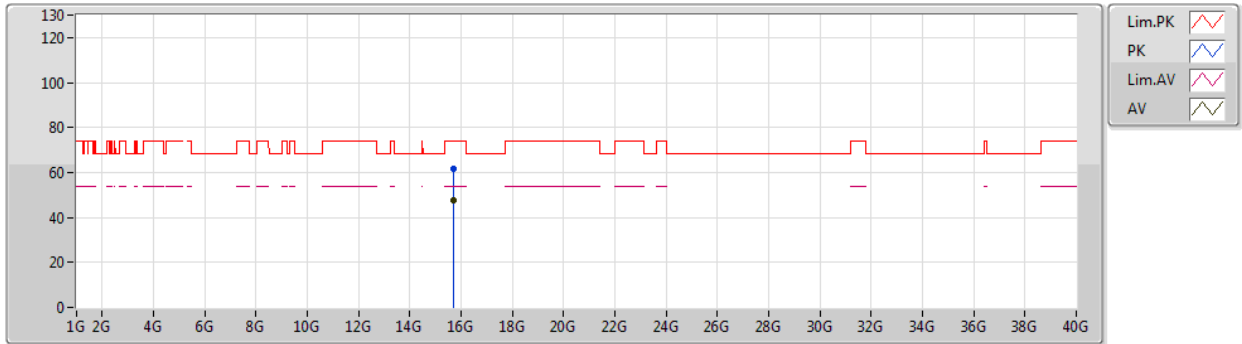
EUT_Z_2TX
Setting 104
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	15.6852G	61.62	74.00	-12.38	17.20	3	Vertical	202	2.44	-
AV	15.68888G	47.85	54.00	-6.15	17.19	3	Vertical	202	2.44	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

03/07/2019

5230MHz_TX



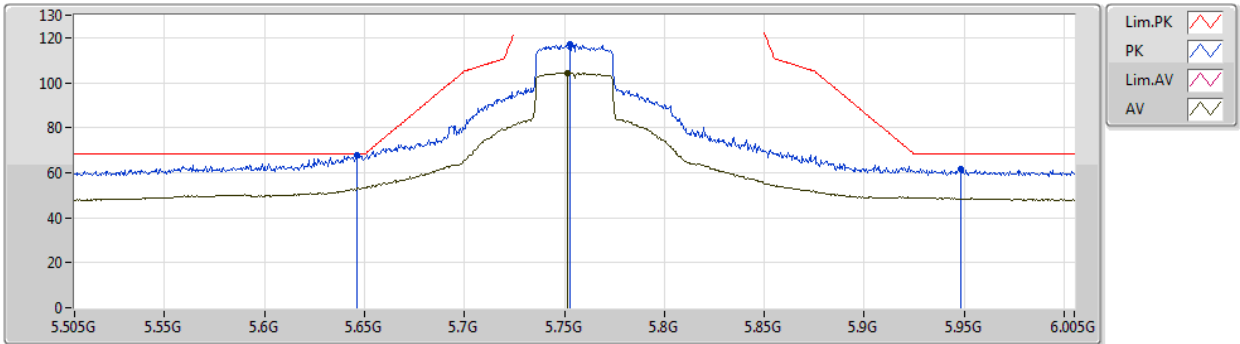
EUT_Z_2TX
Setting 104
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.69422G	61.74	74.00	-12.26	17.17	3	Horizontal	340	2.50	-				
AV	15.6813G	47.82	54.00	-6.18	17.20	3	Horizontal	340	2.50	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

24/06/2019

5755MHz_TX



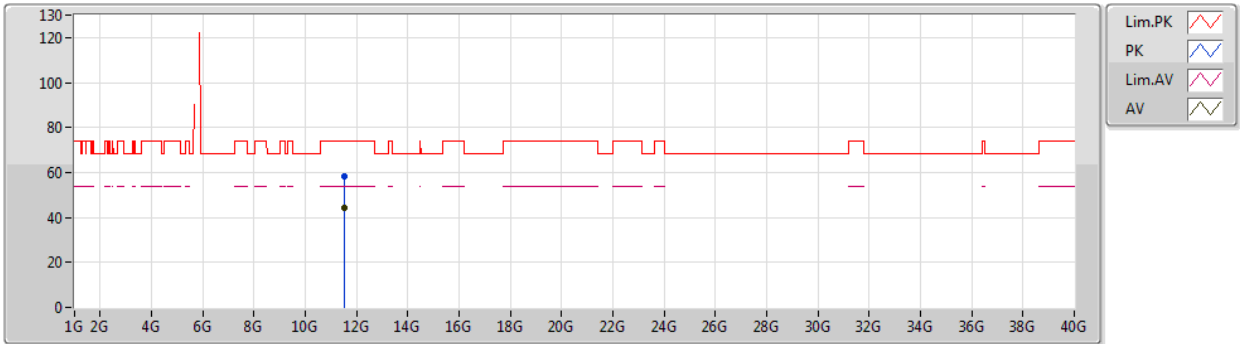
EUT_Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.6465G	67.74	68.20	-0.46	7.86	3	Vertical	228	2.17	-
PK	5.753G	116.99	Inf	-Inf	8.01	3	Vertical	228	2.17	-
AV	5.7515G	104.33	Inf	-Inf	8.01	3	Vertical	228	2.17	-
PK	5.948G	61.65	68.20	-6.55	8.42	3	Vertical	228	2.17	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

03/07/2019

5755MHz_TX



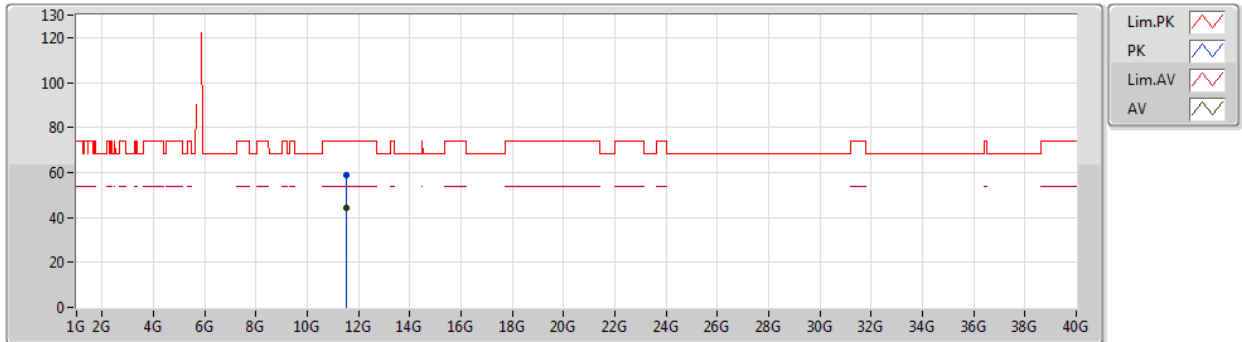
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.51254G	58.00	74.00	-16.00	17.13	3	Vertical	347	1.45	-				
AV	11.51816G	44.47	54.00	-9.53	17.12	3	Vertical	347	1.45	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

03/07/2019

5755MHz_TX



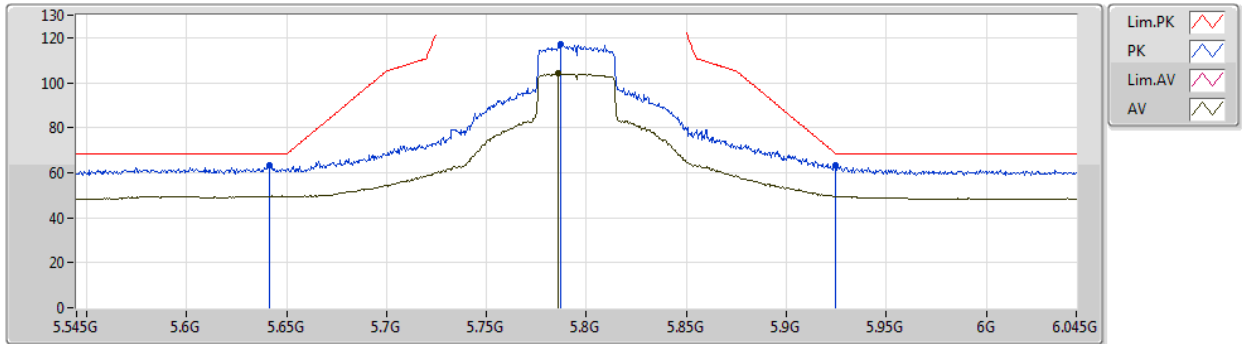
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Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	11.51014G	58.60	74.00	-15.40	17.14	3	Horizontal	113	1.41	-
AV	11.5018G	44.45	54.00	-9.55	17.15	3	Horizontal	113	1.41	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

24/06/2019

5795MHz_TX



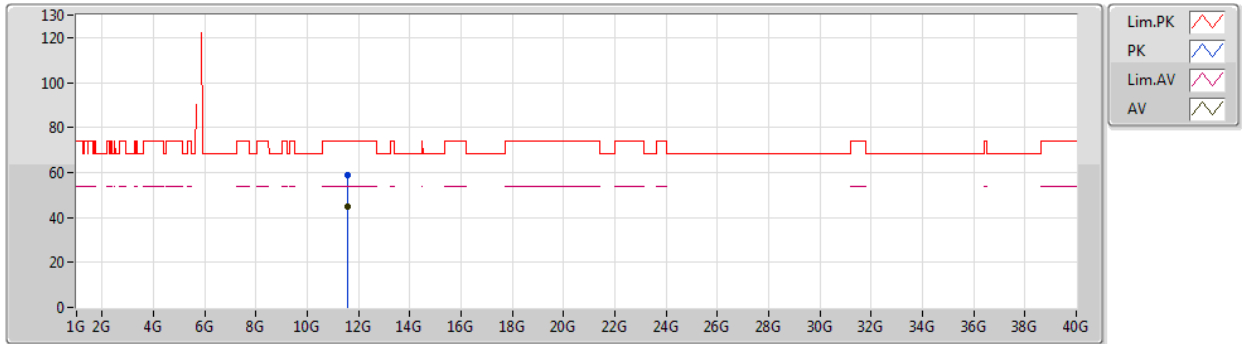
EUT_Z_2TX
Setting 108
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.6415G	63.28	68.20	-4.92	7.85	3	Vertical	233	2.21	-
PK	5.787G	117.15	Inf	-Inf	8.07	3	Vertical	233	2.21	-
AV	5.786G	103.95	Inf	-Inf	8.07	3	Vertical	233	2.21	-
PK	5.9245G	63.23	68.57	-5.34	8.36	3	Vertical	233	2.21	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

03/07/2019

5795MHz_TX



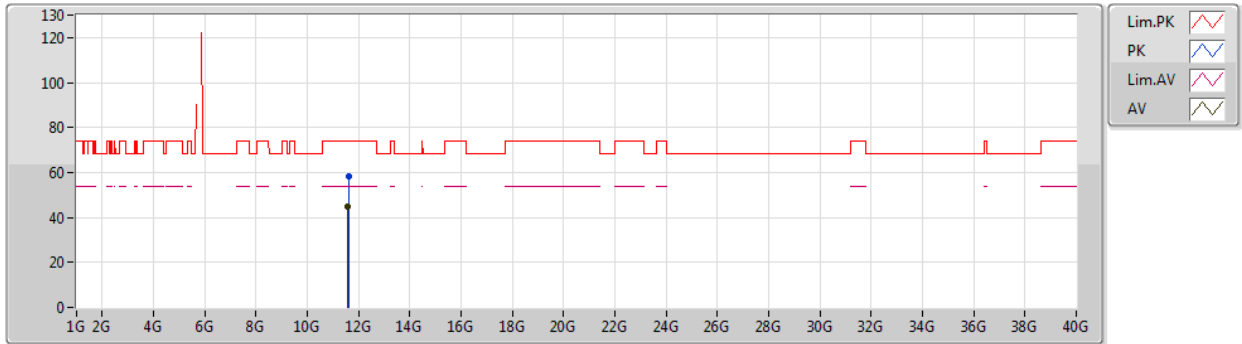
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.59602G	58.76	74.00	-15.24	16.99	3	Vertical	116	1.49	-				
AV	11.58778G	44.82	54.00	-9.18	16.99	3	Vertical	116	1.49	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

03/07/2019

5795MHz_TX



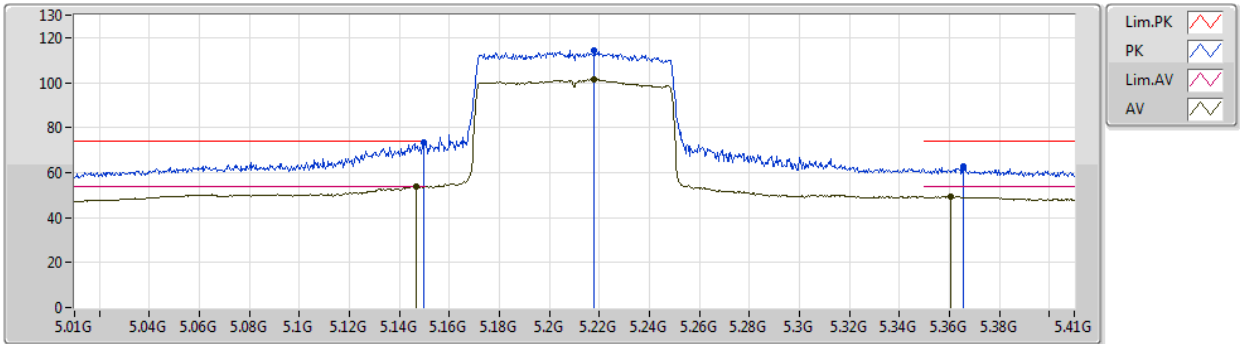
EUT_Z_2TX
Setting 108
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	11.59942G	58.05	74.00	-15.95	16.98	3	Horizontal	47	2.11	-
AV	11.58162G	44.77	54.00	-9.23	17.01	3	Horizontal	47	2.11	-

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

18/06/2019

5210MHz_TX



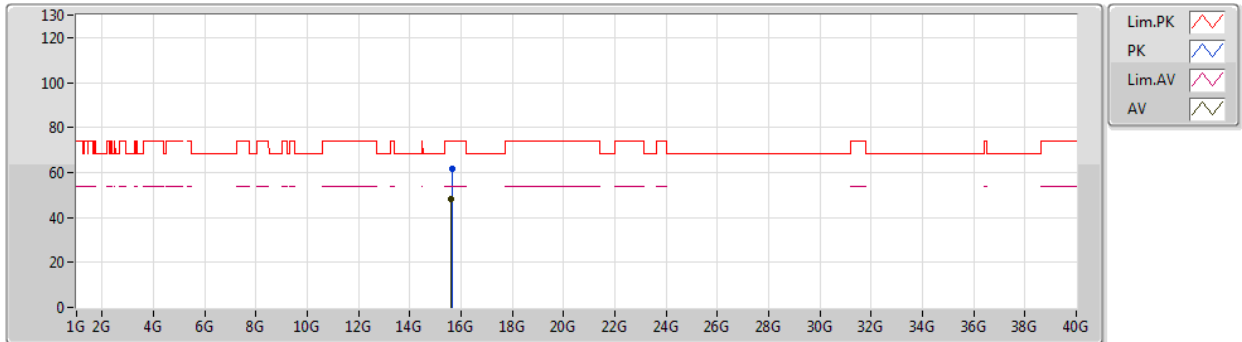
EUT_Z_2TX
Setting 81
03-C-5-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1496G	73.16	74.00	-0.84	5.83	3	Vertical	59	2.91	-
AV	5.1468G	53.94	54.00	-0.06	5.83	3	Vertical	59	2.91	-
PK	5.218G	114.24	Inf	-Inf	5.97	3	Vertical	59	2.91	-
AV	5.218G	101.42	Inf	-Inf	5.97	3	Vertical	59	2.91	-
PK	5.3656G	62.84	74.00	-11.16	6.34	3	Vertical	59	2.91	-
AV	5.3604G	49.32	54.00	-4.68	6.32	3	Vertical	59	2.91	-

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

03/07/2019

5210MHz_TX



EUT_Z_2TX
Setting 81
03-S-5
FSP
EUT #5 / ANT WS0604

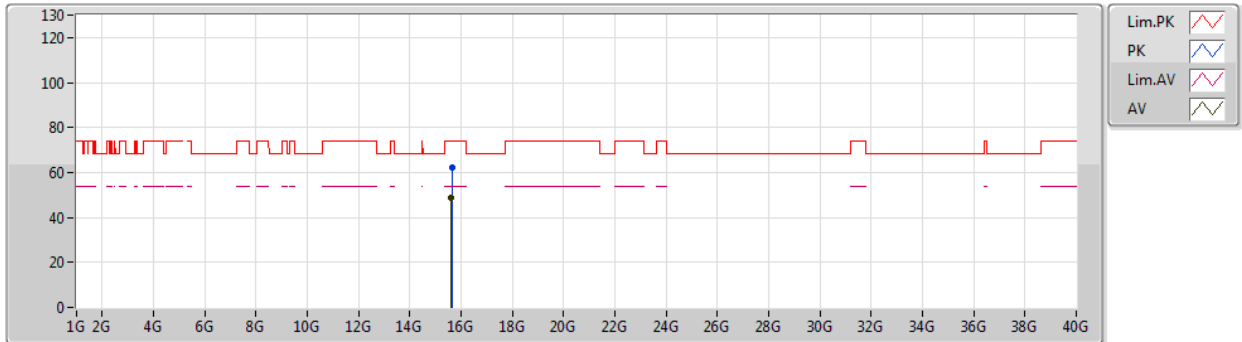
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	15.63404G	61.59	74.00	-12.41	17.30	3	Vertical	262	1.31	-
AV	15.62084G	48.28	54.00	-5.72	17.33	3	Vertical	262	1.31	-



802.11ax HEW80-BF_Nss1,(MCS0)_2TX

03/07/2019

5210MHz_TX



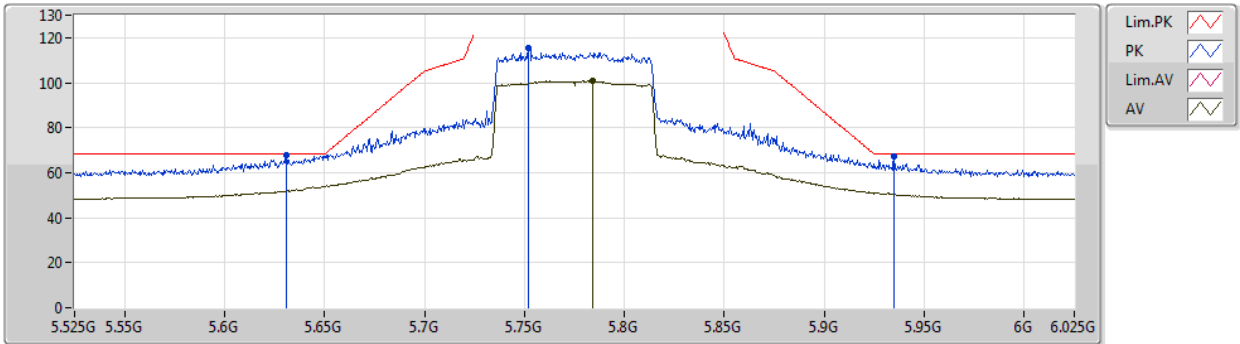
EUT_Z_2TX
Setting 81
03-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.63936G	62.01	74.00	-11.99	17.28	3	Horizontal	24	1.90	-				
AV	15.62G	48.50	54.00	-5.50	17.33	3	Horizontal	24	1.90	-				

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

20/06/2019

5775MHz_TX



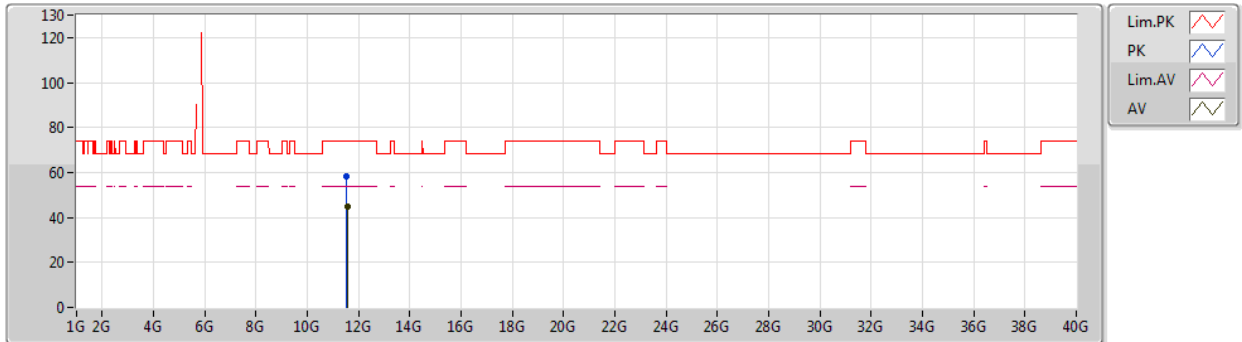
EUT_Z_2TX
Setting 91
06-K-3-10
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.631G	67.94	68.20	-0.26	7.84	3	Vertical	260	1.50	-				
PK	5.752G	115.63	Inf	-Inf	8.01	3	Vertical	260	1.50	-				
AV	5.784G	100.61	Inf	-Inf	8.07	3	Vertical	260	1.50	-				
PK	5.935G	67.49	68.20	-0.71	8.39	3	Vertical	260	1.50	-				

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

03/07/2019

5775MHz_TX



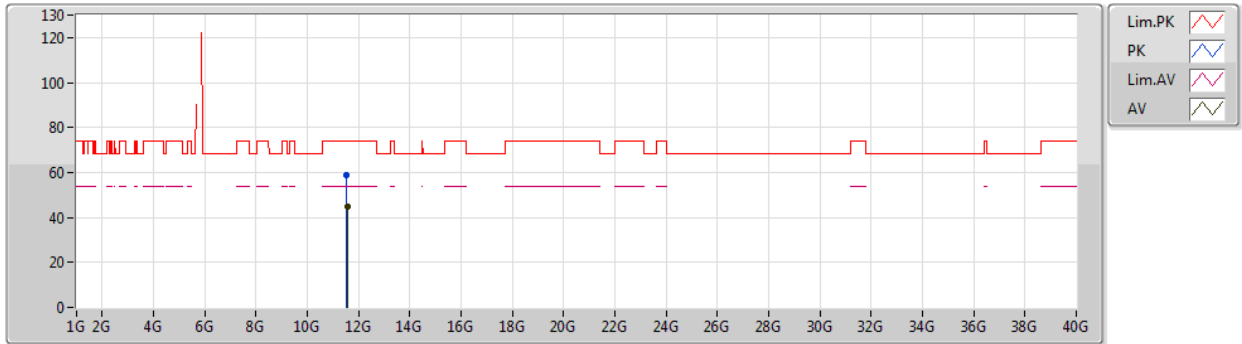
EUT_Z_2TX
Setting 91
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.54274G	58.06	74.00	-15.94	17.07	3	Vertical	282	2.17	-				
AV	11.55836G	44.68	54.00	-9.32	17.05	3	Vertical	282	2.17	-				

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

03/07/2019

5775MHz_TX



EUT_Z_2TX
Setting 91
06-S-5
FSP
EUT #5 / ANT WS0604

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.54774G	58.74	74.00	-15.26	17.06	3	Horizontal	177	2.13	-				
AV	11.55026G	44.59	54.00	-9.41	17.07	3	Horizontal	177	2.13	-				



RSE Co-location Result

Appendix F

