

FCC Test Report

Equipment : AC1350 Wireless Dual Band Gigabit Ceiling Mount Access Point

Brand Name : tp-link

Model No. : EAP225

FCC ID : TE7EAP225V3

Standard : 47 CFR FCC Part 15.407

Operating Band : 5150 MHz – 5250 MHz
5725 MHz – 5850 MHz

Applicant : TP-Link Technologies Co., Ltd.
Building 24 (floors 1,3,4,5) and 28 (floors1-4), Central Science and Technology Park,Nanshan Shenzhen, 518057 China

Manufacturer : TP-Link Technologies Co., Ltd.
Building 24 (floors 1,3,4,5) and 28 (floors1-4), Central Science and Technology Park,Nanshan Shenzhen, 518057 China

Function : ☐ Outdoor; ☒ Indoor; ☐ Fixed P2P
☐ Client

The product sample received on Sep. 18, 2017 and completely tested on Oct. 23, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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


Cliff Chang
SPORTON INTERNATIONAL INC.



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Summary of Test Result

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



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FCC ID: TE7EAP225V3

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	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	802.11n 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	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ac VHT80-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
5.725-5.85GHz	802.11ac VHT20-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	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80-BF	80	2TX



Note:

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

1.1.2 Antenna Information

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)	
					2.4GHz	5GHz
1	TP-LINK	EAP225 3.0	PIFA Antenna	N/A	4	5
2	TP-LINK	EAP225 3.0	PIFA Antenna	N/A	4	5
3	TP-LINK	EAP225 3.0	PIFA Antenna	N/A	4	-

Note1: The EUT has three antennas.

For 2.4GHz function:

For IEEE 802.11b/g/n mode (3TX/3RX)

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

For 5GHz function:

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

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

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.967	0.146	2.033m	1k
802.11ac VHT20	0.963	0.164	1.905m	1k
802.11ac VHT20-BF	0.919	0.367	1.813m	1k
802.11ac VHT40	0.924	0.343	940u	3k
802.11ac VHT40-BF	0.909	0.414	1.748m	1k
802.11ac VHT80	0.854	0.685	460u	3k
802.11ac VHT80-BF	0.912	0.4	2.008m	1k

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming for 802.11n/ac in 5GHz	☐	Without beamforming
Test Software Version	QRCT			

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v01r04
- ♦ FCC KDB 644545 D03 v01
- ♦ FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Brian Sun	22°C / 54%	Oct. 21, 2017
Radiated below 1GHz	03CH01-CB	Brian Sun & Zero Chen & Cola Fan & Mason Chen	22°C / 54%	Sep. 28, 2017
Radiated above 1GHz	03CH01-CB	Brian Sun & Zero Chen & Cola Fan & Mason Chen	22°C / 54%	Oct. 17, 2017 ~ Oct. 23, 2017
AC Conduction	CO01-CB	Tony Chang	25°C / 60%	Oct. 03, 2017

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74 x10 ⁻⁸	Confidence levels of 95%
Frequency Stability	6.06 x10 ⁻⁸	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	23
5200MHz	25
5240MHz	25
5745MHz	25
5785MHz	25
5825MHz	25
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	23
5200MHz	25
5240MHz	25
5745MHz	25
5785MHz	25
5825MHz	25
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	17.5
5230MHz	25
5755MHz	25
5795MHz	25
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	16
5775MHz	25
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	22
5200MHz	22
5240MHz	22
5745MHz	22
5785MHz	22
5825MHz	22
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5190MHz	22
5230MHz	22
5755MHz	22



Mode	Power Setting
5795MHz	22
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5210MHz	21
5775MHz	22

Note:

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

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link

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

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	Normal Link
1	EUT in Y axis
2	EUT in Z axis
Mode 1 generated the worst test result, so it was recorded in this report.	
Operating Mode > 1GHz	CTX
	The EUT was performed at Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
1	EUT in Z axis

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	EUT in Y axis - WLAN 2.4GHz +WLAN 5GHz
2	EUT in Z axis - WLAN 2.4GHz +WLAN 5GHz
Mode 2 generated the worst test result, so it was recorded in this report.	
Refer to Appendix G 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.: FA791517 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

During the test, the following programs under WIN XP 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 SSH Secure Shell Client.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by WLAN Dongle and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
PoE	tp-link	TL-POE2412G	Input: 100-240V, ~ 50/60Hz, 0.4A Output: 24V, 0.5A
Others			
power cable*1, non-shielded, 0.5m			

2.5 Support Equipment

For Test Site No: CO01-CB and 03CH01-CB (below 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E6430	DoC
2	NB	DELL	E6430	DoC
3	NB	DELL	E6430	DoC

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

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E6430	DoC

(For beamforming mode)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	NB	DELL	E4300	DoC
3	WLAN Dongle	LINKSYS	AE6000	Q87-AE6000



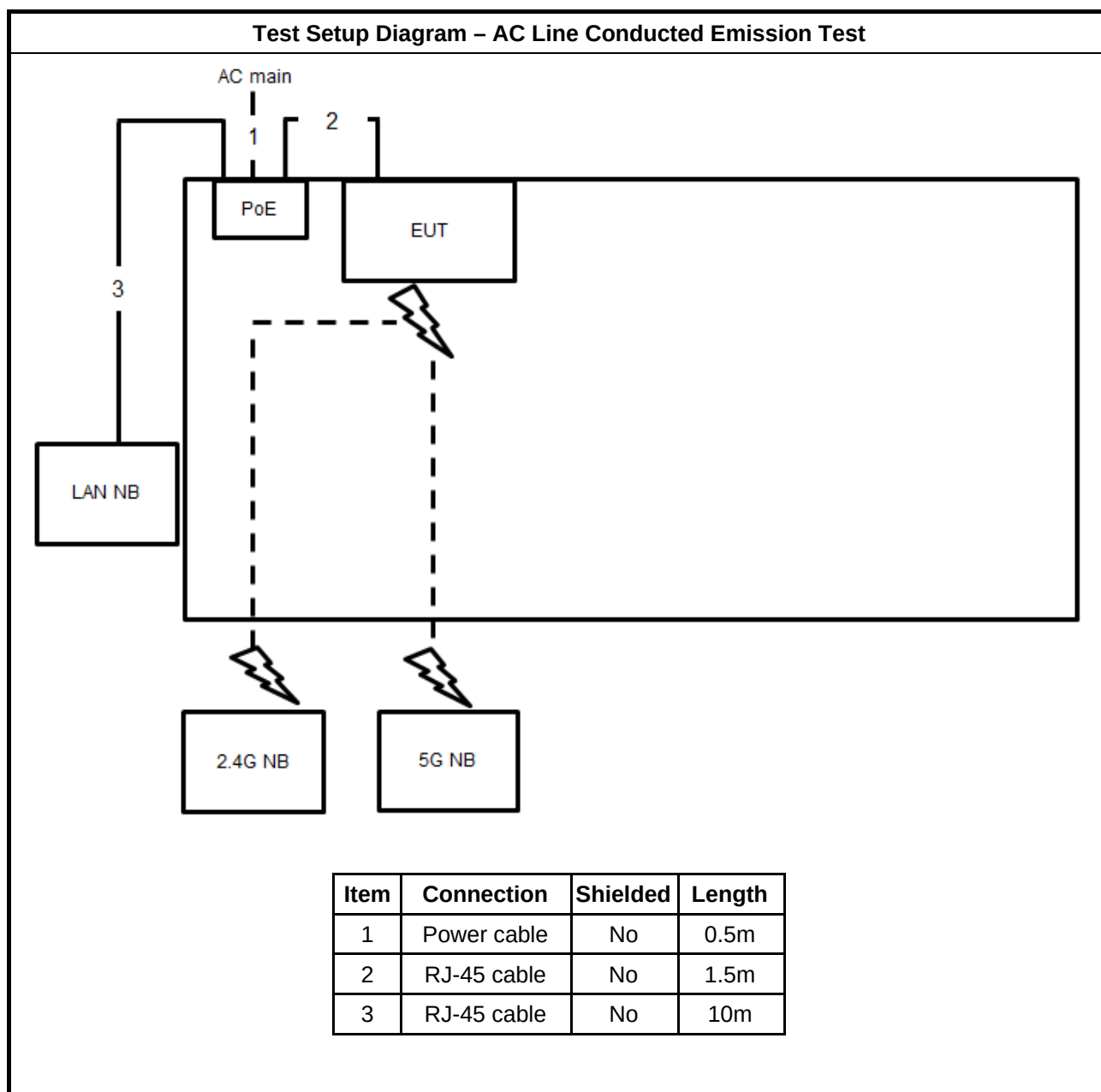
For Test Site No: TH01-CB
(For non-beamforming mode)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

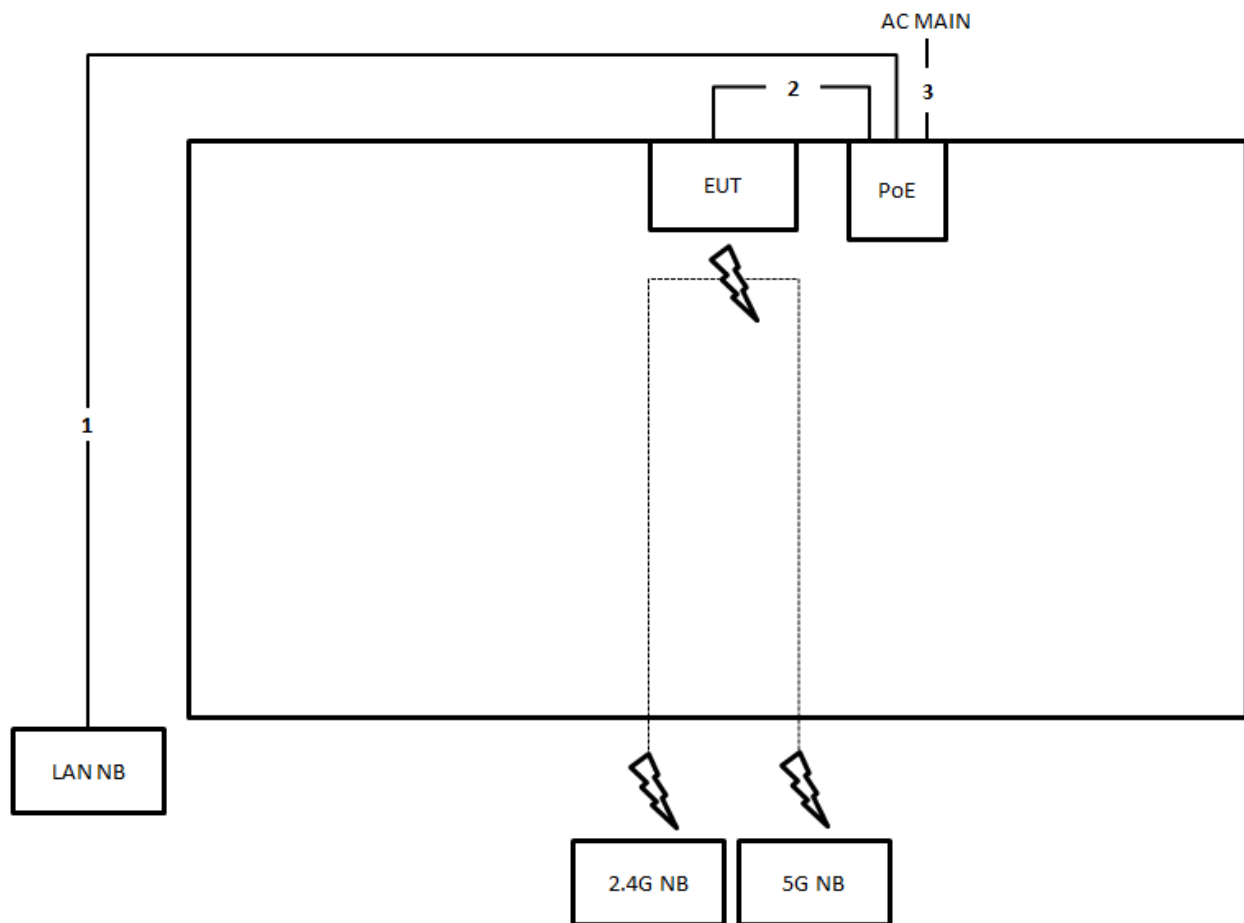
(For beamforming mode)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	NB	DELL	E4300	DoC
3	WLAN Dongle	LINKSYS	AE6000	Q87-AE6000

2.6 Test Setup Diagram

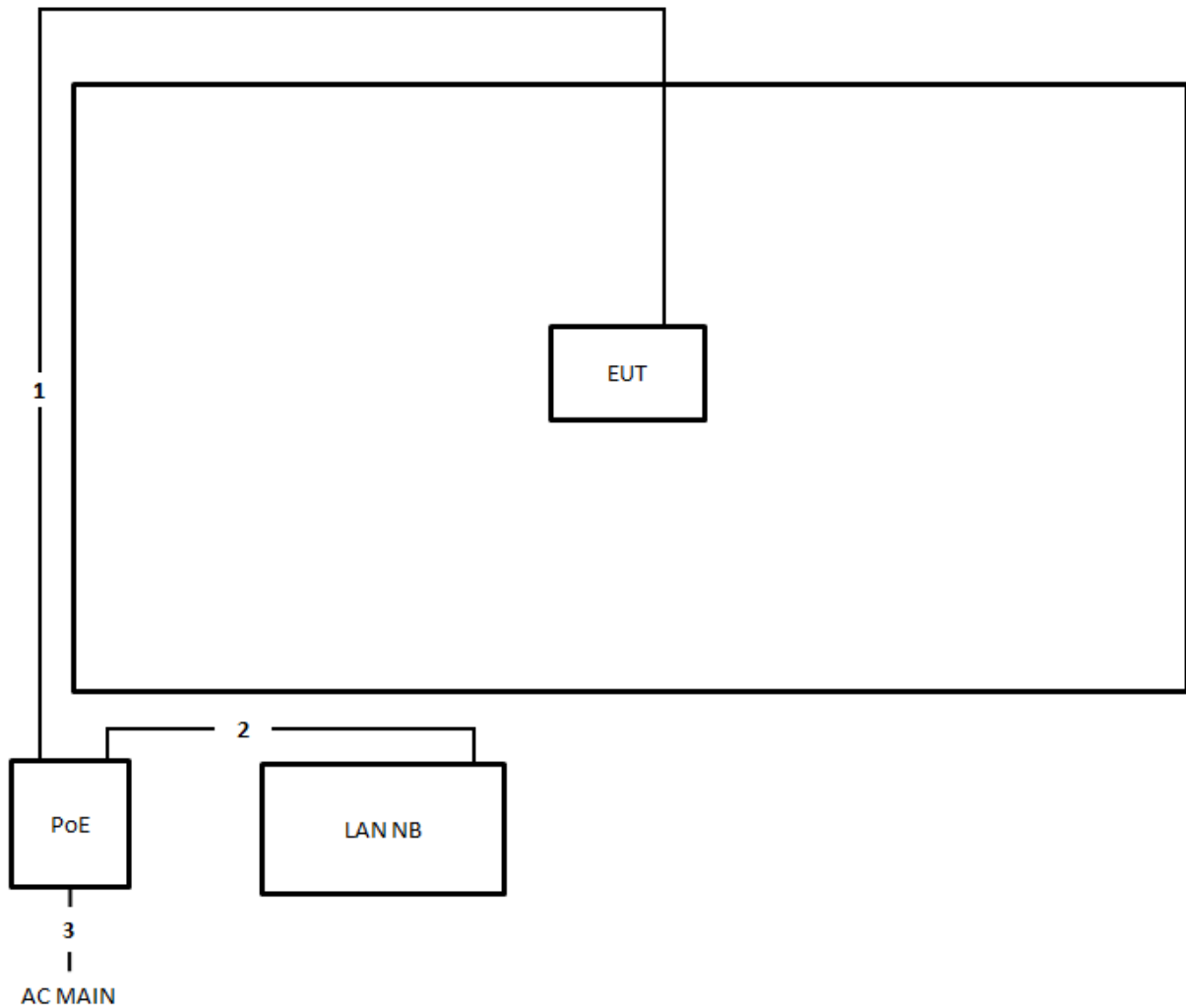


Test Setup Diagram - Radiated Test < 1GHz



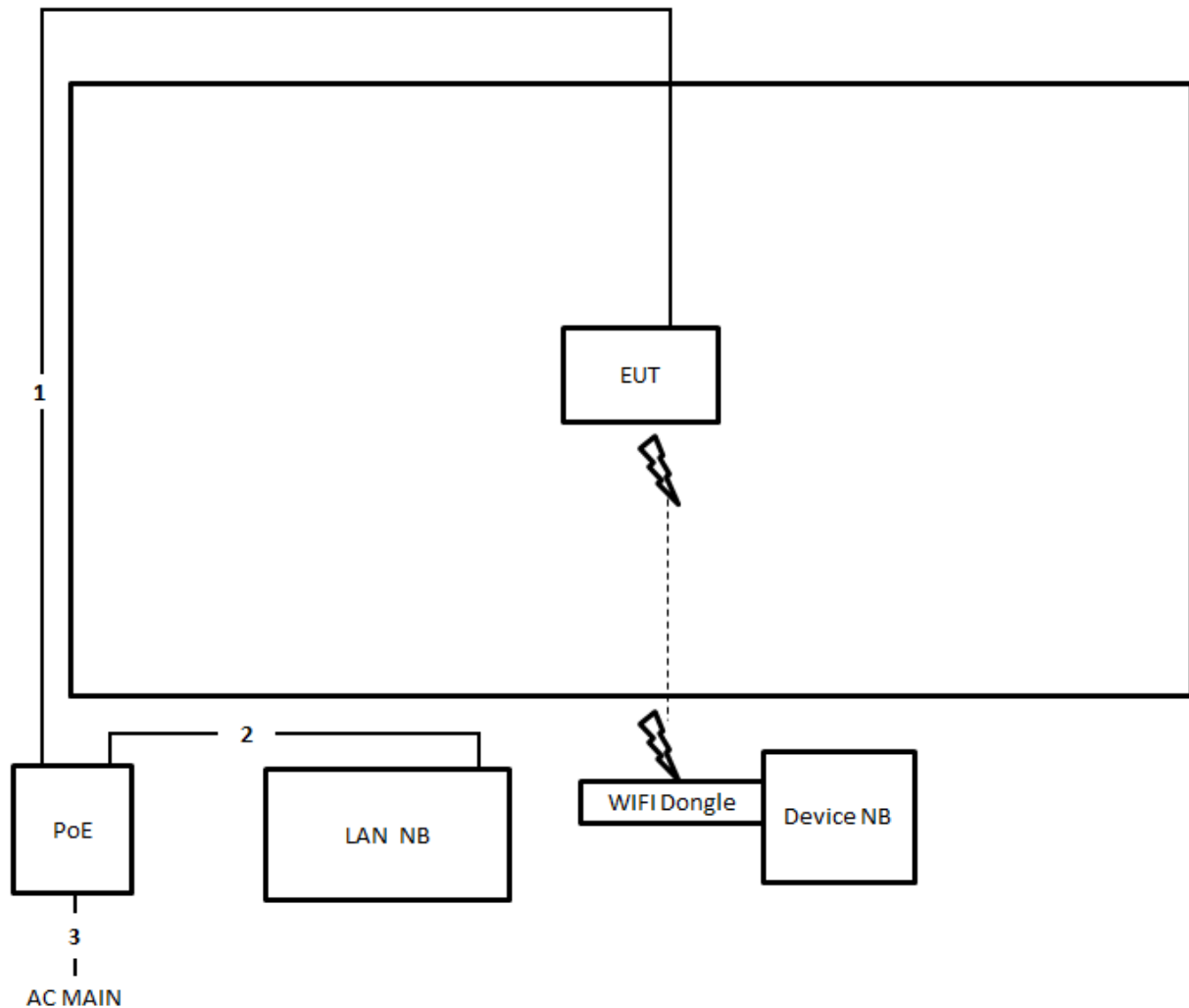
Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Power cable	No	0.5m

Test Setup Diagram - Radiated Test > 1GHz / For non beamforming mode



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Power cable	No	0.5m

Test Setup Diagram - Radiated Test > 1GHz / For beamforming mode



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Power cable	No	0.5m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

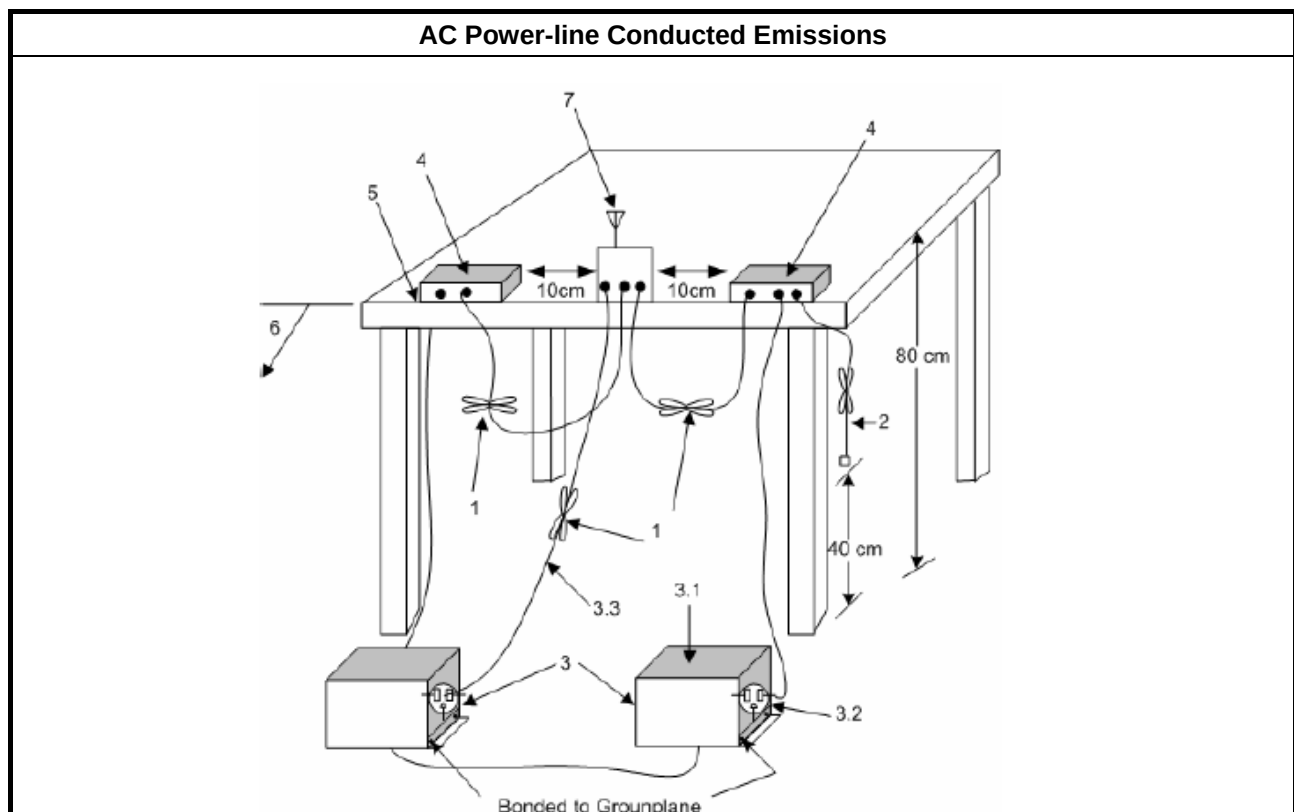
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup





3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

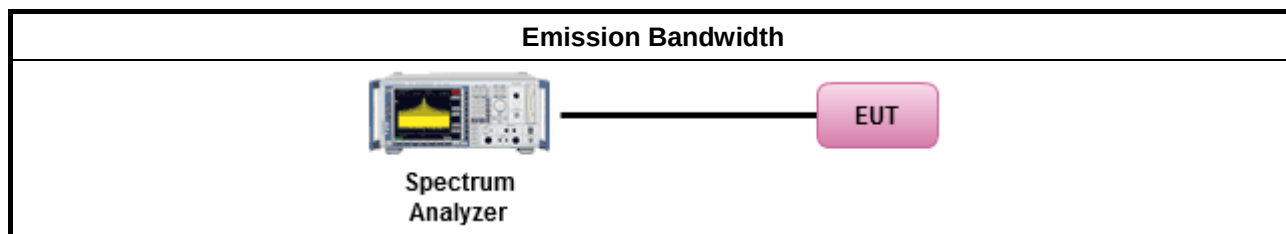
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☒	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

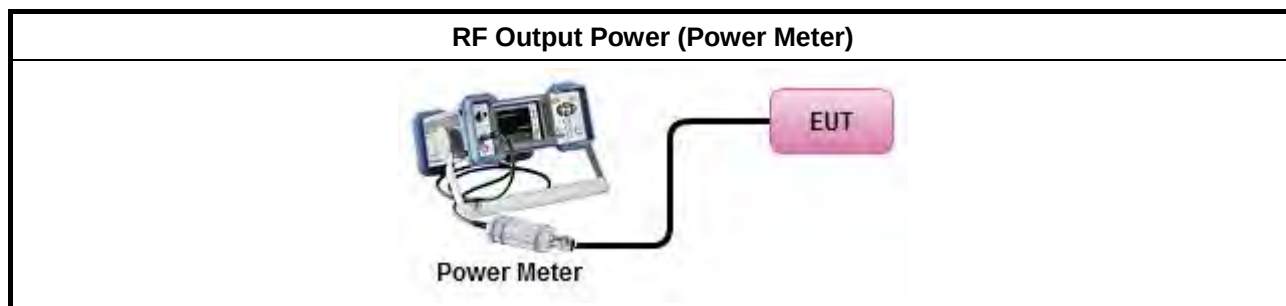
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☐ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.	
	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.	
☐ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

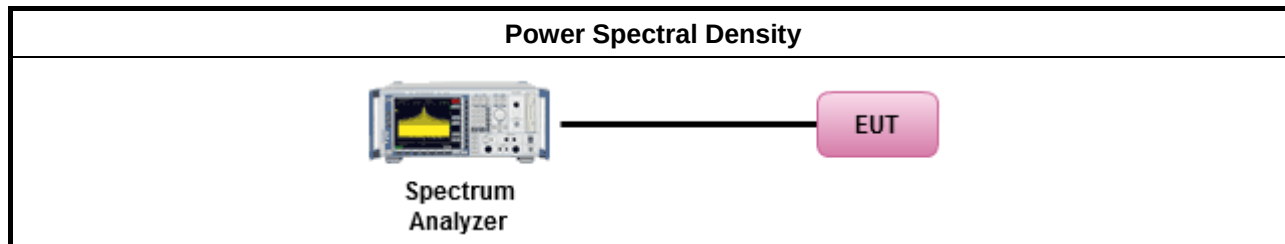
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐ Refer as FCC KDB 789033, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
[duty cycle ≥ 98% or external video / power trigger]	
☒ Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).	
☐ Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)	
duty cycle < 98% and average over on/off periods with duty factor	
☒ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).	
☐ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	
☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,	
☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.	
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

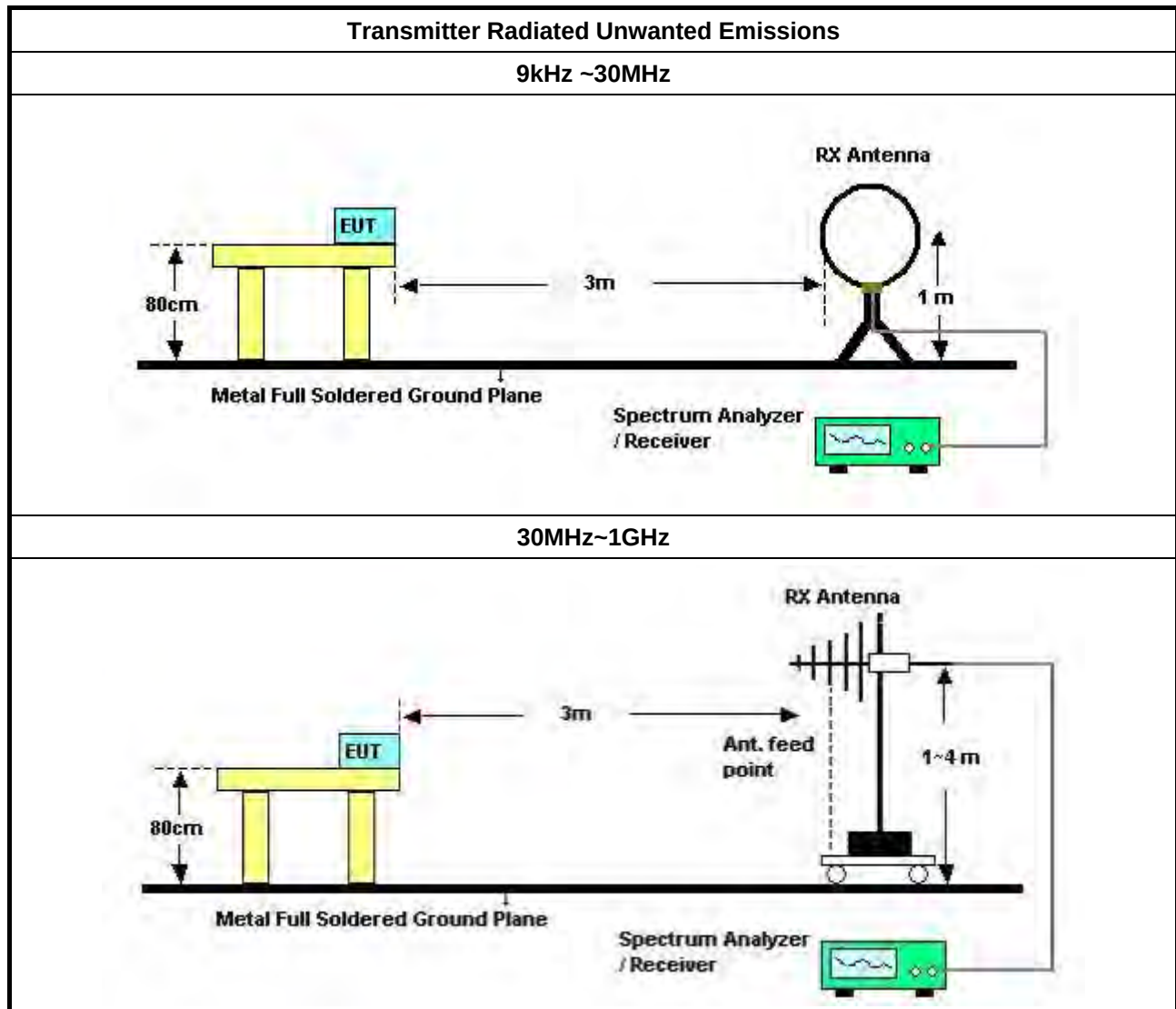
3.5.2 Measuring Instruments

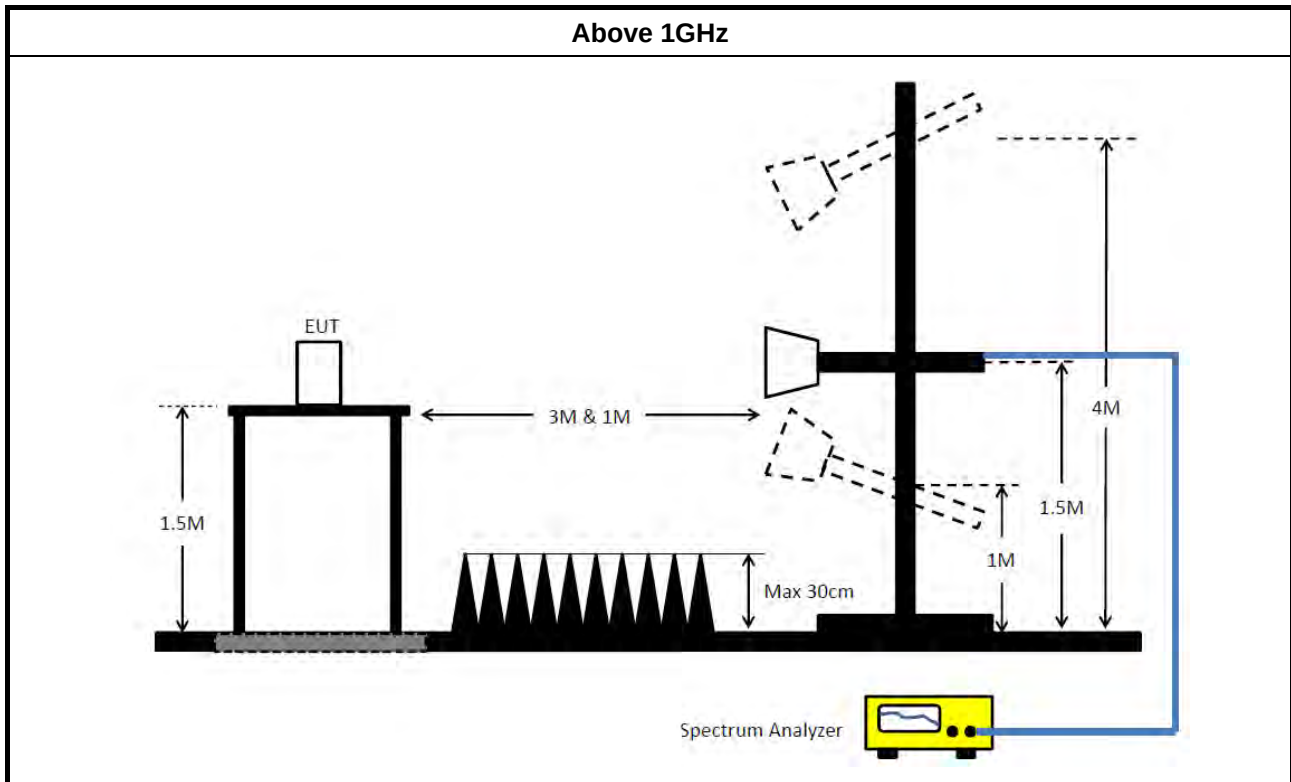
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
	For radiated measurement.
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.	
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.5.4 Test Setup





3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Frequency Stability

3.6.1 Frequency Stability Limit

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

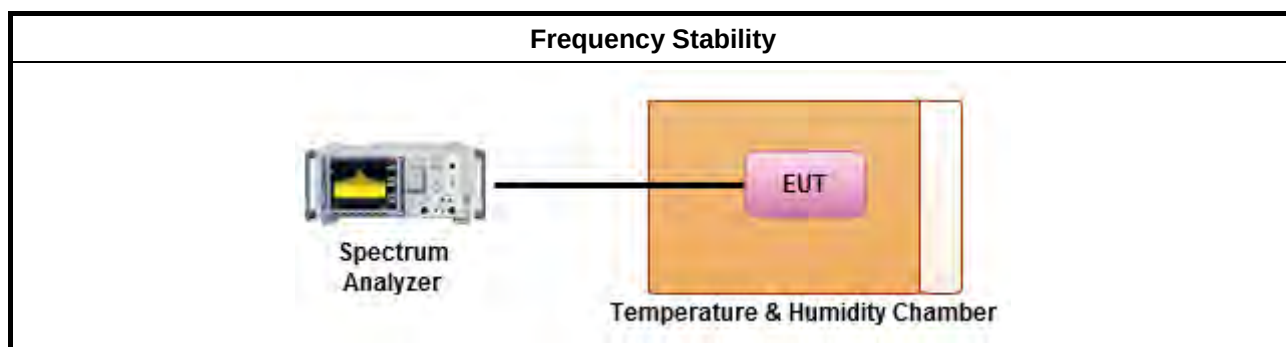
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method	
Refer as ANSI C63.10, clause 6.8 for frequency stability tests	
	Frequency stability with respect to ambient temperature
	Frequency stability when varying supply voltage
	Extreme temperature is 0°C~40°C.

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Jan. 22, 2018	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-1 6-2	04083	150kHz~ 00MHz	Dec. 14, 2016	Dec. 13, 2017	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Dec. 20, 2017	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	May 22, 2018	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Mar. 15, 2018*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz~18GHz	Nov. 10, 2016	Nov. 09, 2017	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	May 01, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Jan. 15, 2018	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Nov. 21, 2017	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	May 05, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-10-7	N/A	N/A	N/A	Radiation (03CH01-CB)

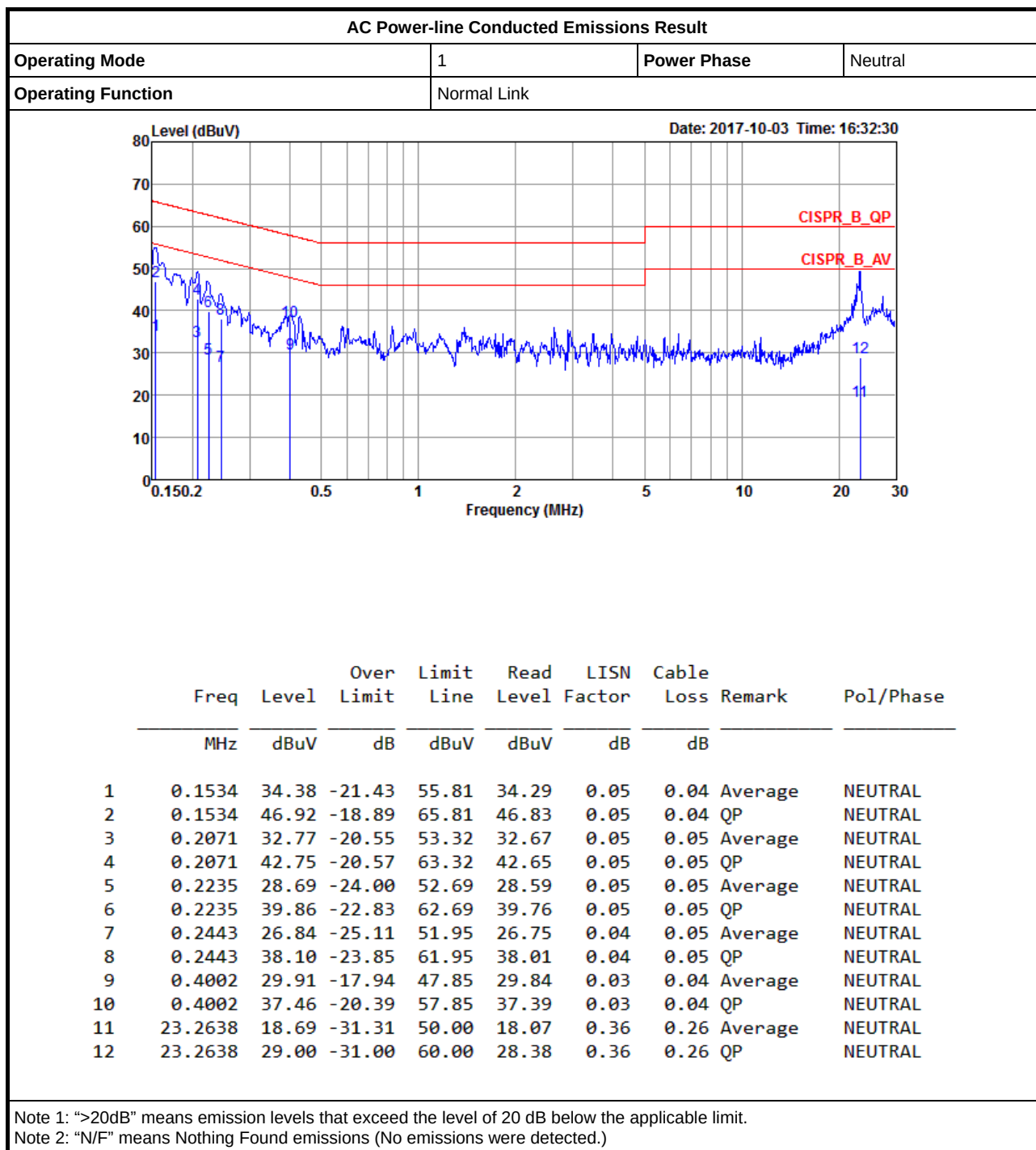


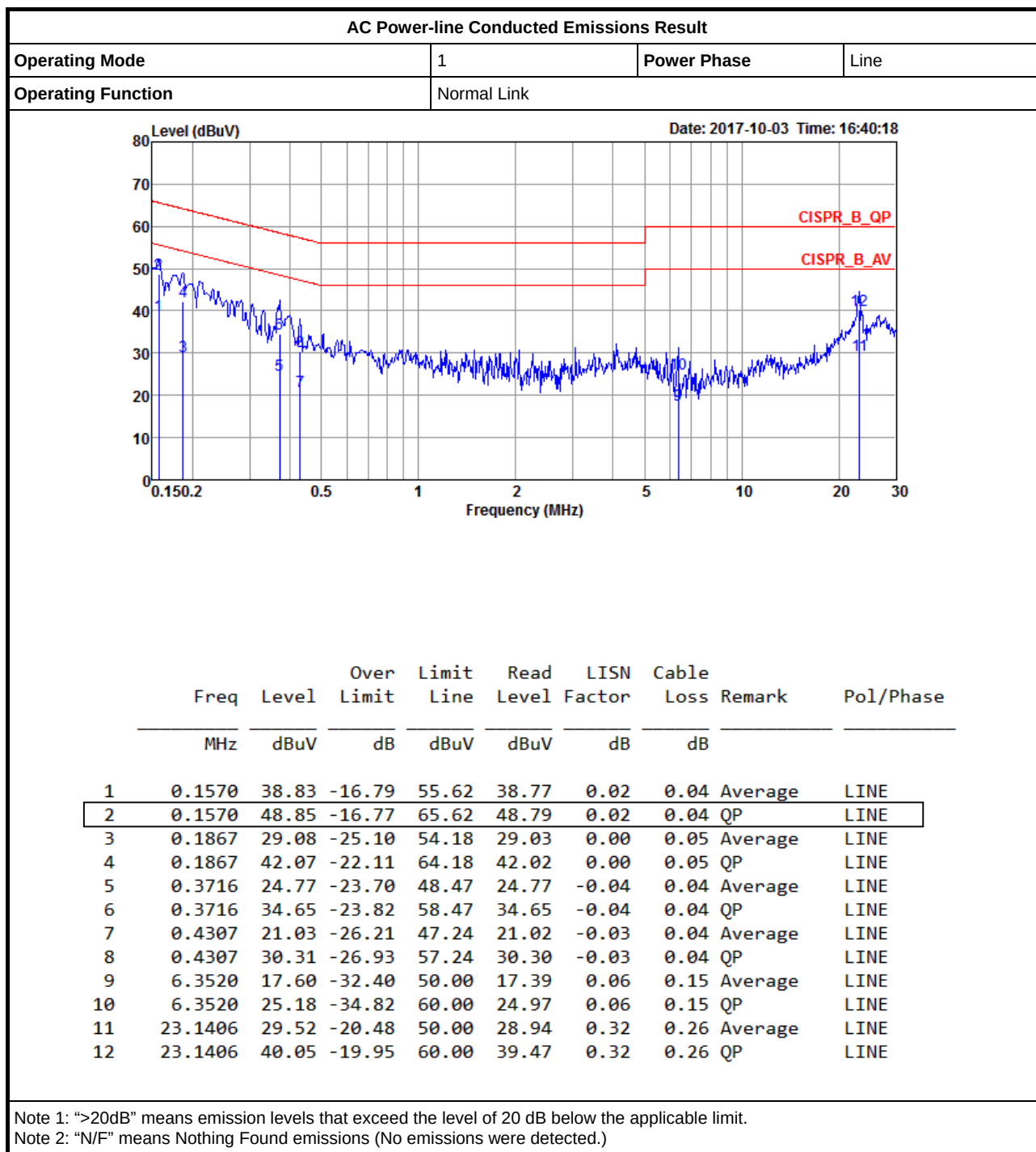
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Dec. 25, 2017	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2017	Jun. 01, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Nov. 21, 2017	Conducted (TH01-CB)

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

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

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





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	42.2M	22.014M	22M0D1D	35.9M	17.641M
802.11ac VHT20_Nss1,(MCS0)_2TX	39.9M	19.365M	19M4D1D	35.9M	17.991M
802.11ac VHT40_Nss1,(MCS0)_2TX	82.35M	36.732M	36M7D1D	39.6M	35.882M
802.11ac VHT80_Nss1,(MCS0)_2TX	83.3M	75.762M	75M8D1D	83M	75.562M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	21.05M	17.666M	17M7D1D	20M	17.591M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	40M	36.032M	36M0D1D	38.75M	35.932M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	81.2M	75.762M	75M8D1D	80.7M	75.662M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.3M	21.964M	22M0D1D	15.7M	16.817M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.575M	20.39M	20M4D1D	16.1M	17.791M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.05M	38.581M	38M6D1D	32.55M	36.382M
802.11ac VHT80_Nss1,(MCS0)_2TX	74.5M	76.462M	76M5D1D	73.2M	76.162M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	17.1M	17.641M	17M6D1D	16.175M	17.591M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	35.2M	36.032M	36M0D1D	32.7M	35.832M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	74.9M	75.862M	75M9D1D	73.8M	75.662M

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;

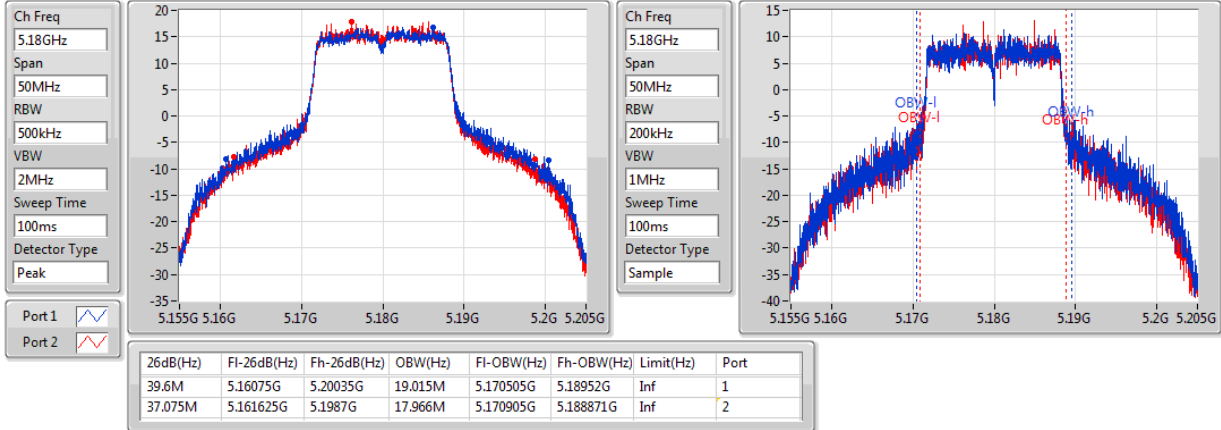
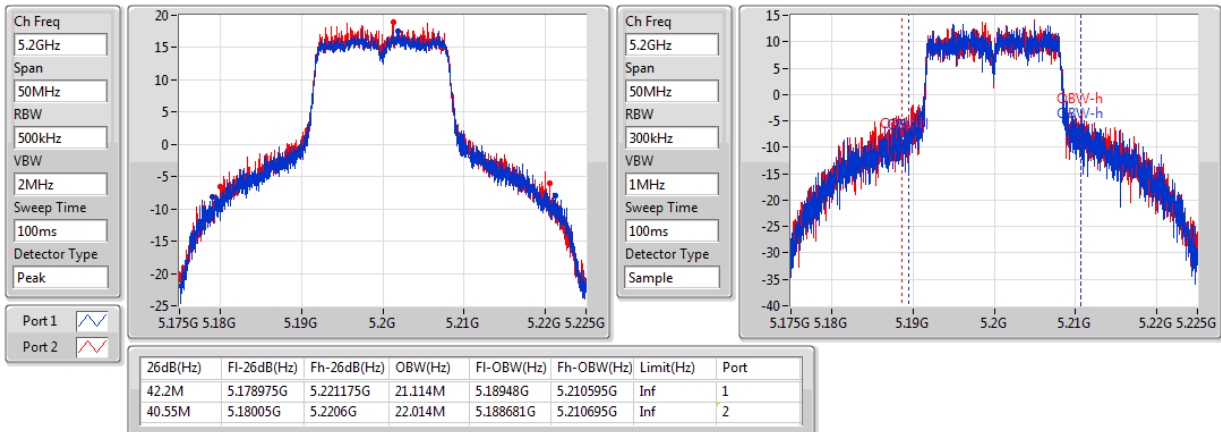
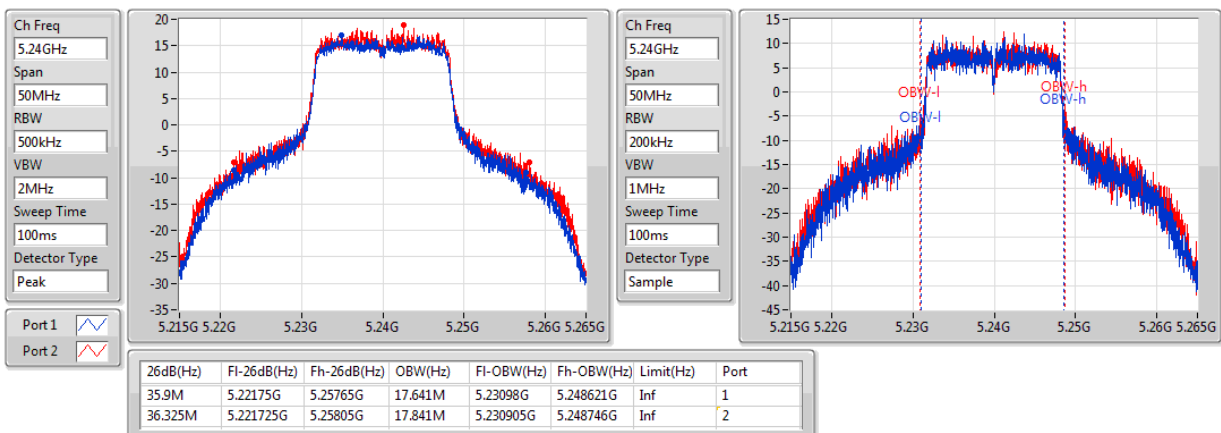
Min-OBW = Minimum 99% occupied bandwidth;

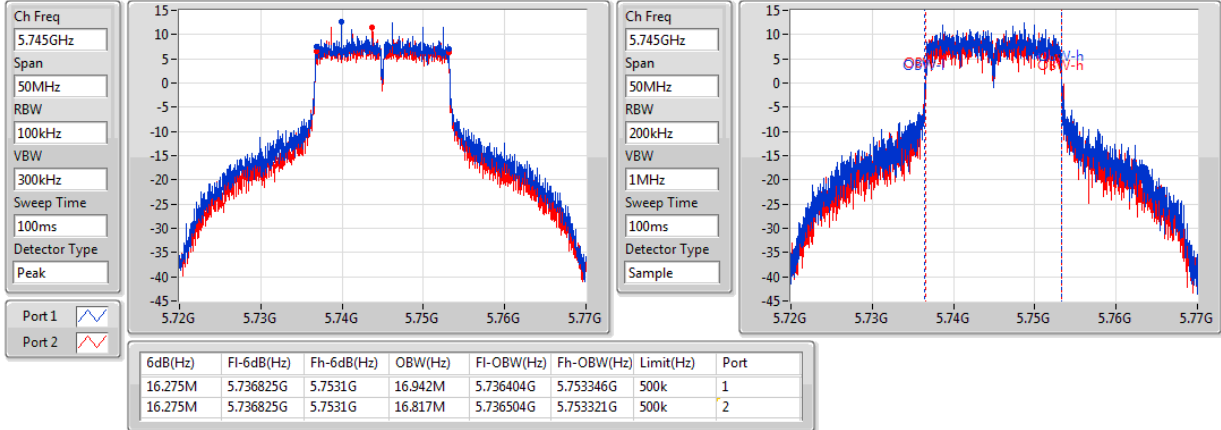
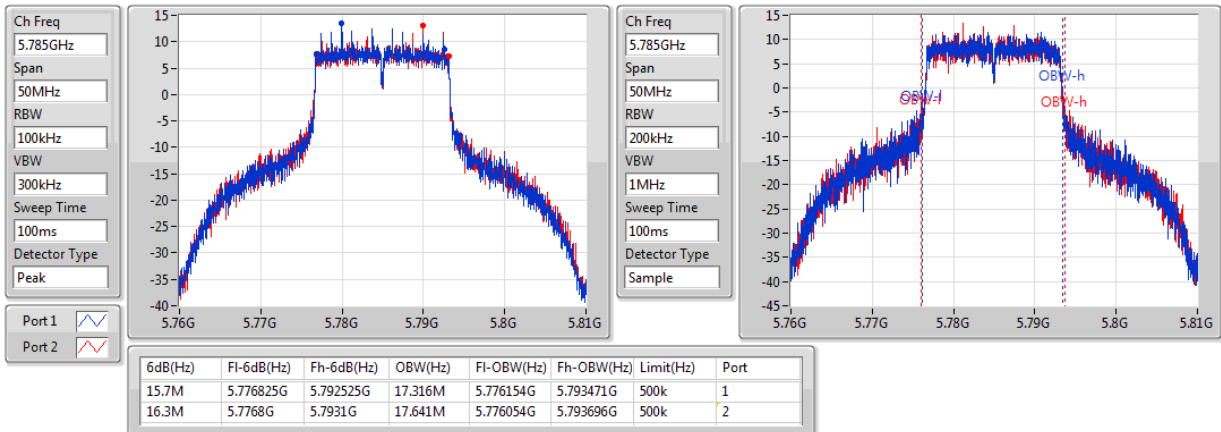
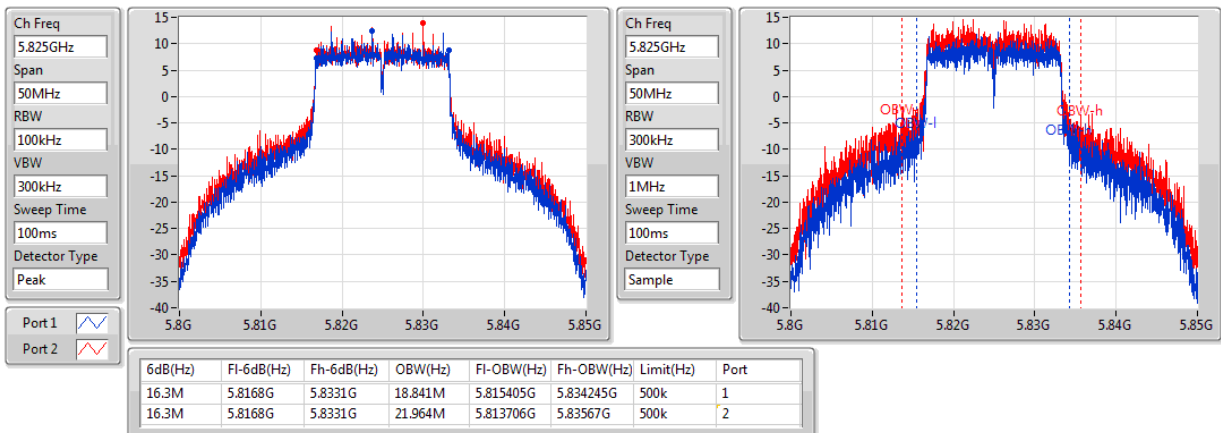
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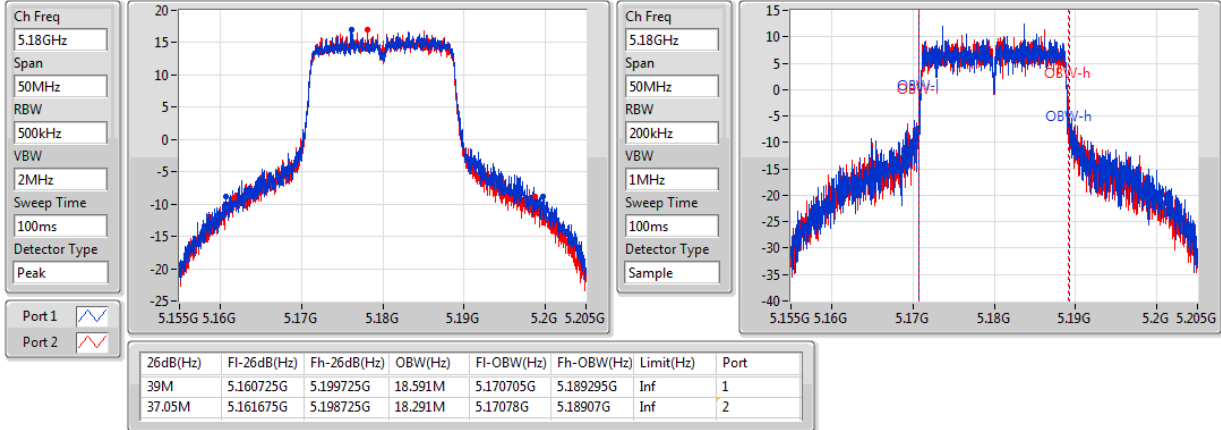
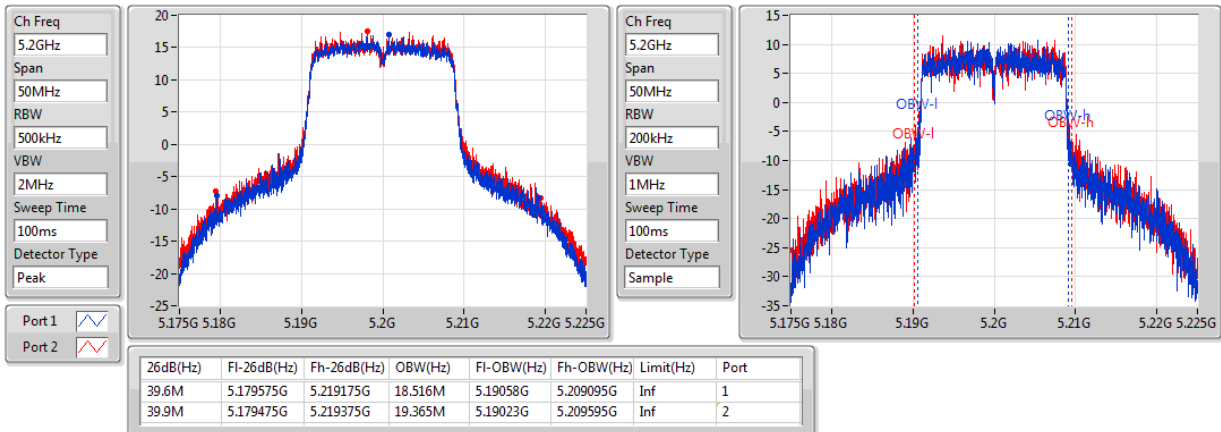
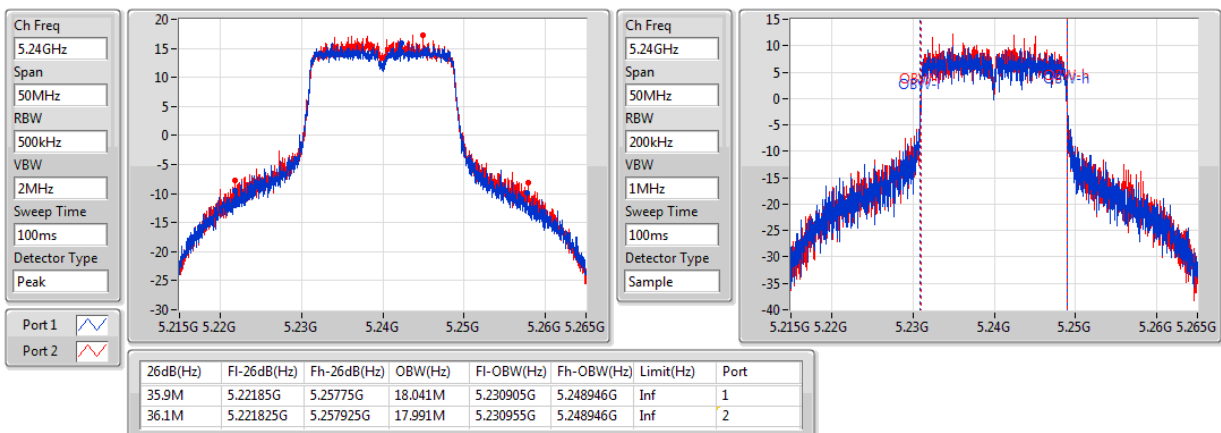
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	39.6M	19.015M	37.075M	17.966M
5200MHz	Pass	Inf	42.2M	21.114M	40.55M	22.014M
5240MHz	Pass	Inf	35.9M	17.641M	36.325M	17.841M
5745MHz	Pass	500k	16.275M	16.942M	16.275M	16.817M
5785MHz	Pass	500k	15.7M	17.316M	16.3M	17.641M
5825MHz	Pass	500k	16.3M	18.841M	16.3M	21.964M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	39M	18.591M	37.05M	18.291M
5200MHz	Pass	Inf	39.6M	18.516M	39.9M	19.365M
5240MHz	Pass	Inf	35.9M	18.041M	36.1M	17.991M
5745MHz	Pass	500k	16.1M	17.816M	16.9M	17.791M
5785MHz	Pass	500k	17.575M	17.966M	17.525M	18.016M
5825MHz	Pass	500k	17.3M	18.391M	17.525M	20.39M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.6M	35.882M	40.1M	36.082M
5230MHz	Pass	Inf	79.85M	36.532M	82.35M	36.732M
5755MHz	Pass	500k	33.75M	38.031M	35.05M	38.581M
5795MHz	Pass	500k	32.55M	36.432M	33.15M	36.382M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	83.3M	75.562M	83M	75.762M
5775MHz	Pass	500k	74.5M	76.462M	73.2M	76.162M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.05M	17.616M	20M	17.591M
5200MHz	Pass	Inf	20.7M	17.666M	20.575M	17.616M
5240MHz	Pass	Inf	20.575M	17.641M	20.4M	17.641M
5745MHz	Pass	500k	17.075M	17.641M	16.175M	17.591M
5785MHz	Pass	500k	17.1M	17.641M	16.55M	17.616M
5825MHz	Pass	500k	17.1M	17.641M	16.9M	17.616M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40M	36.032M	39.45M	35.932M
5230MHz	Pass	Inf	38.85M	36.032M	38.75M	35.982M
5755MHz	Pass	500k	35.2M	35.982M	34.05M	35.832M
5795MHz	Pass	500k	32.7M	35.982M	34.95M	36.032M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	80.7M	75.762M	81.2M	75.662M
5775MHz	Pass	500k	74.9M	75.862M	73.8M	75.662M

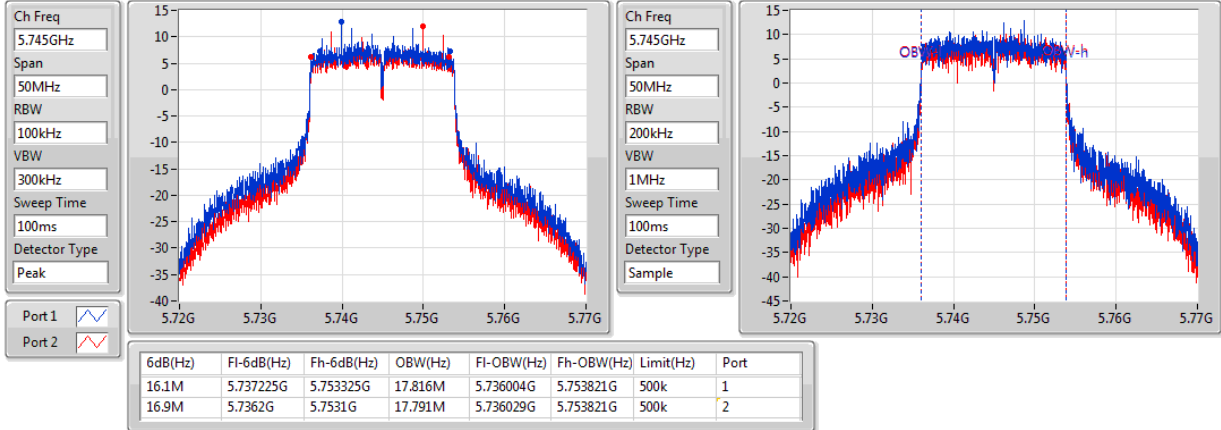
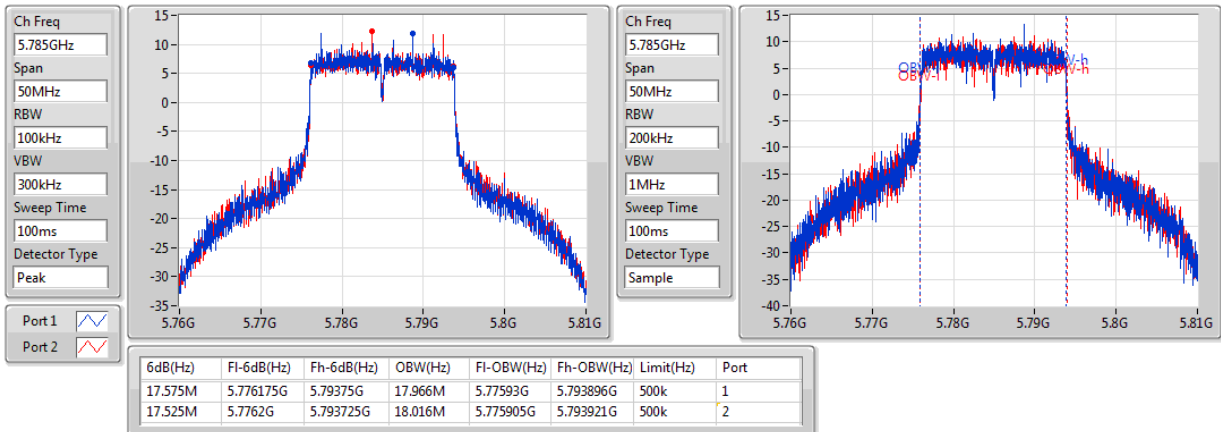
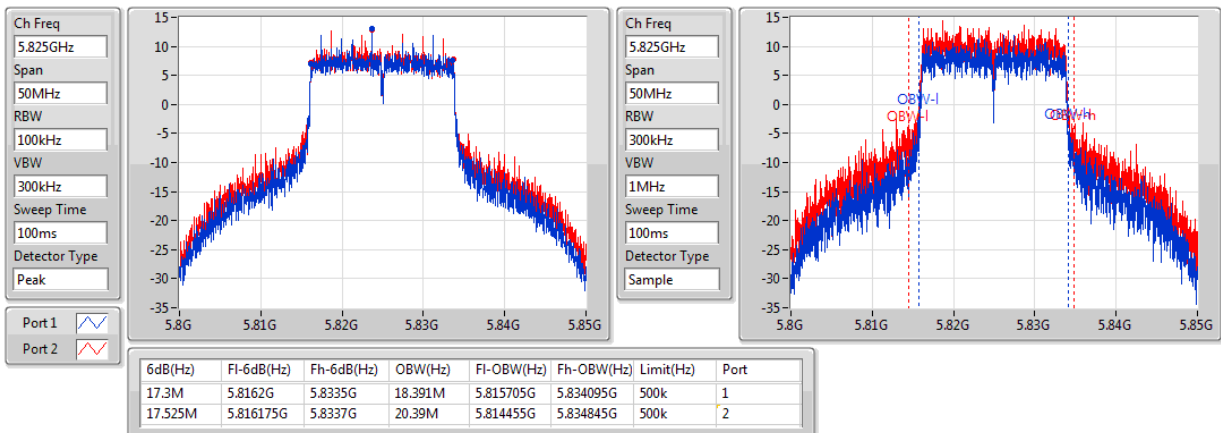
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

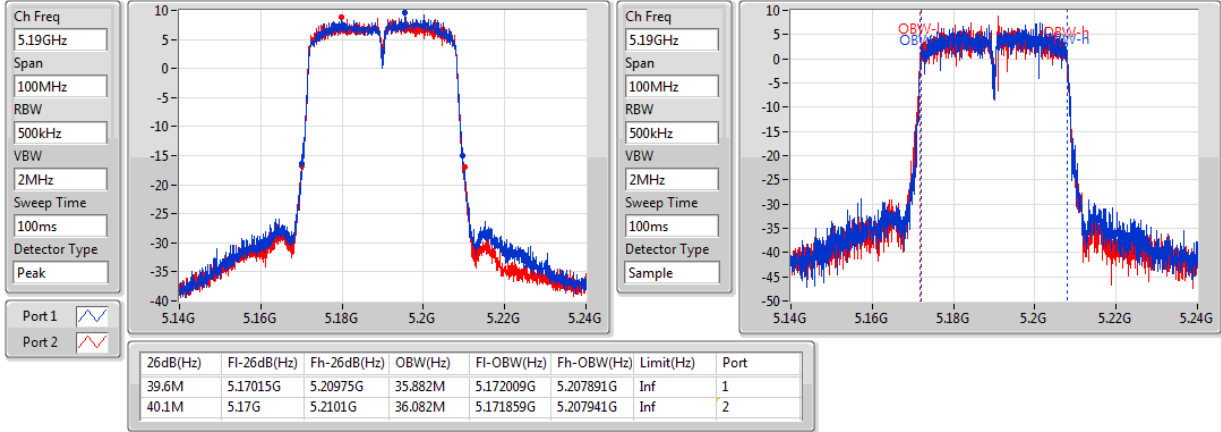
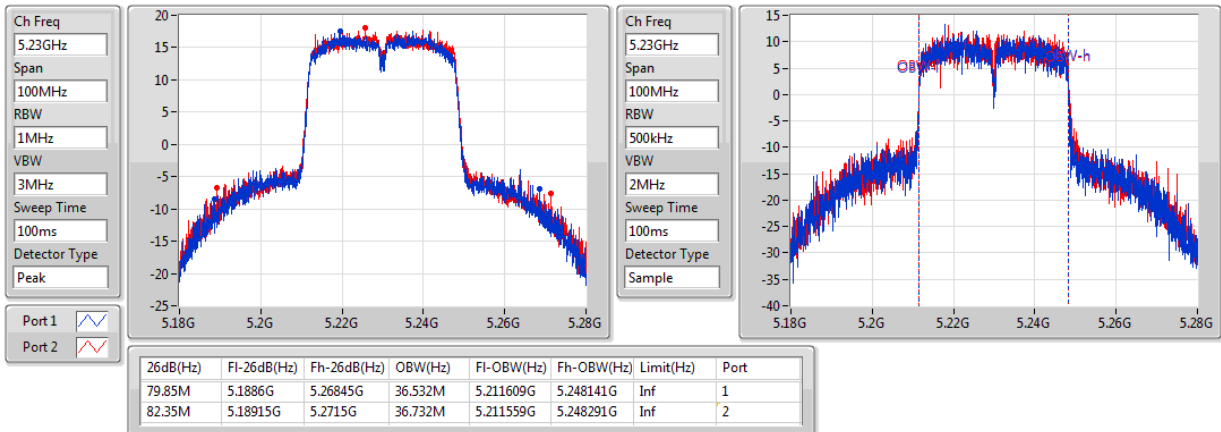
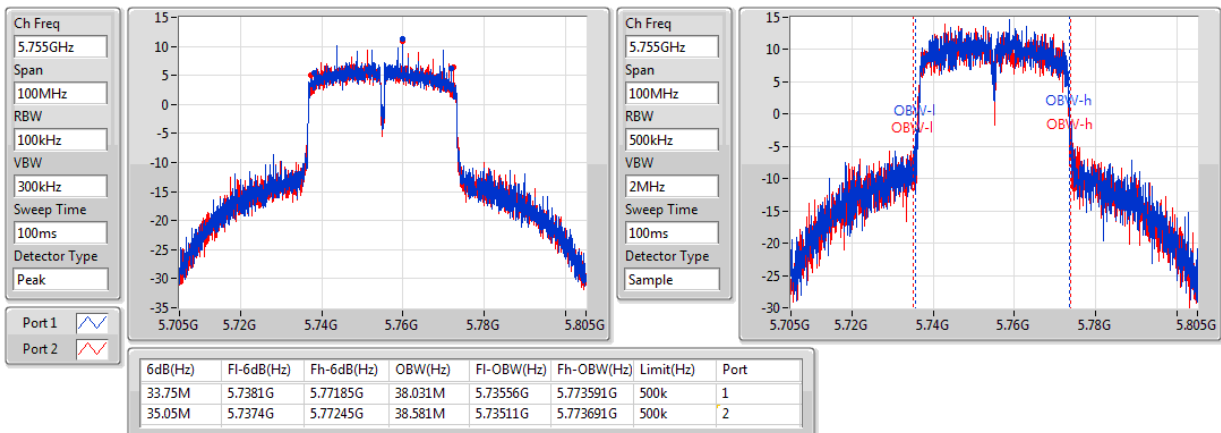
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz


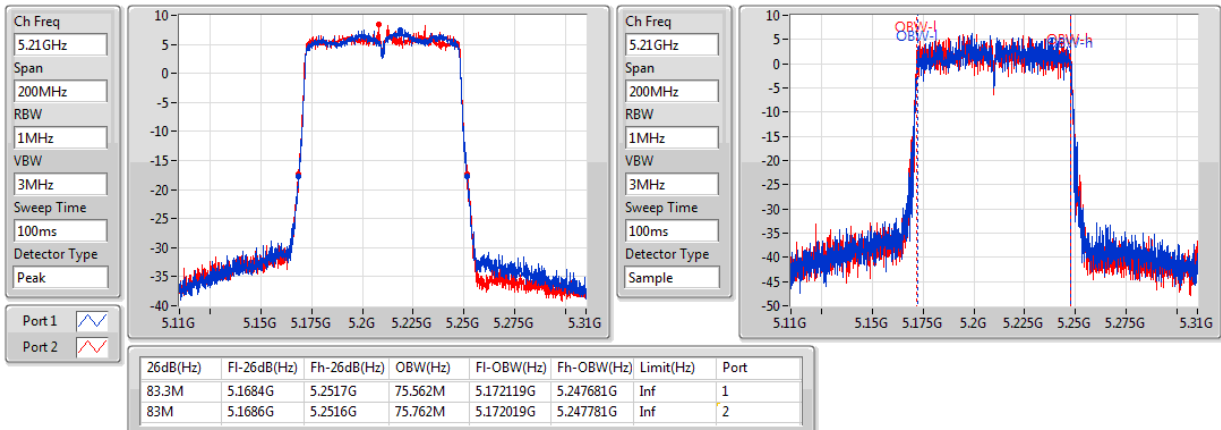
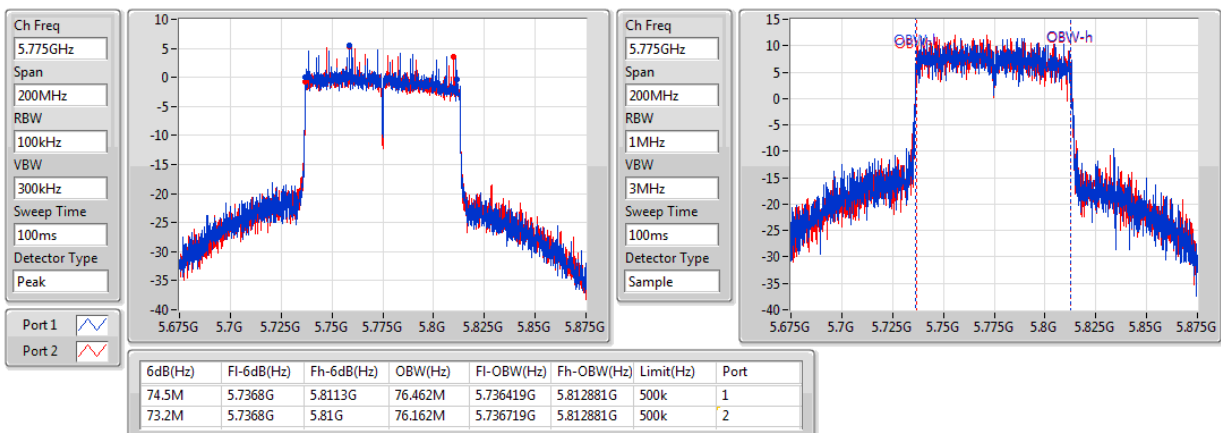
802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz


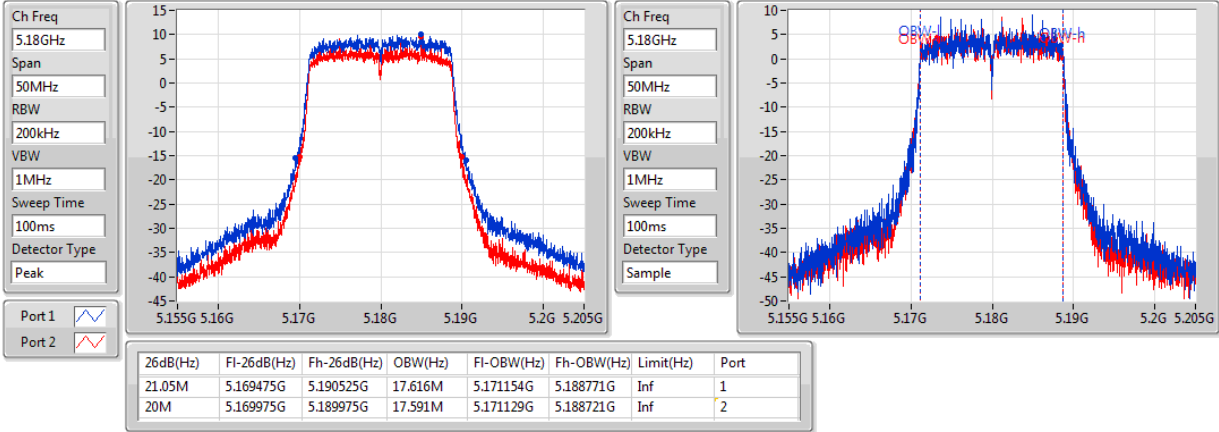
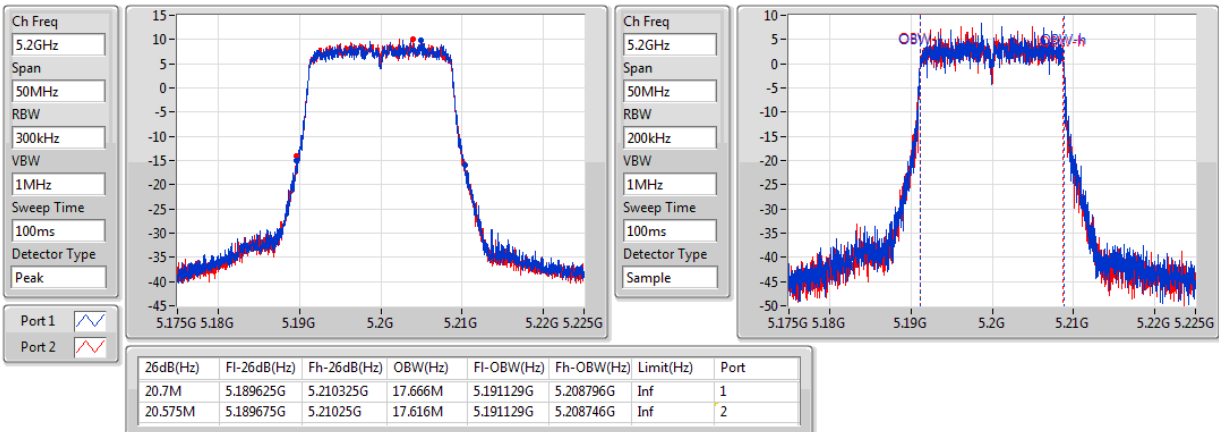
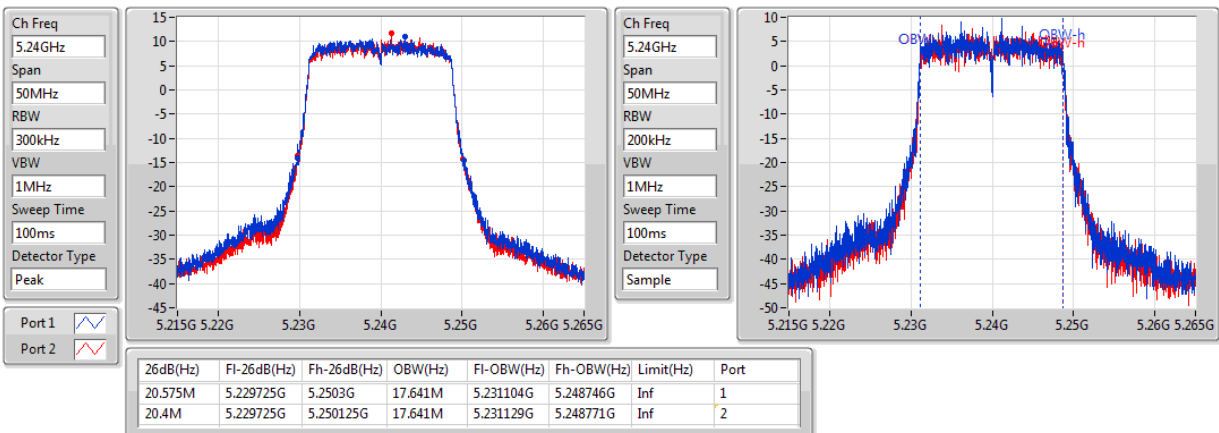
802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5180MHz

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5200MHz

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5240MHz


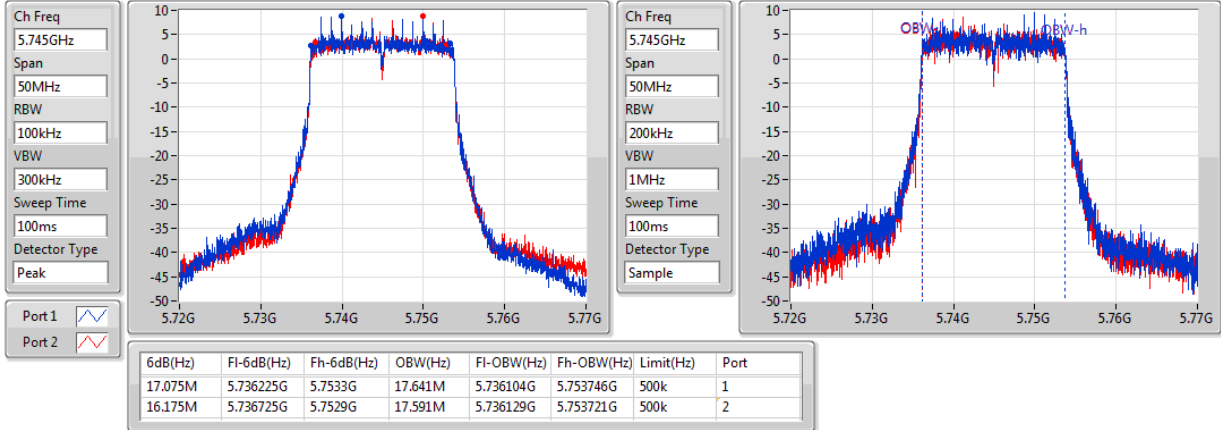
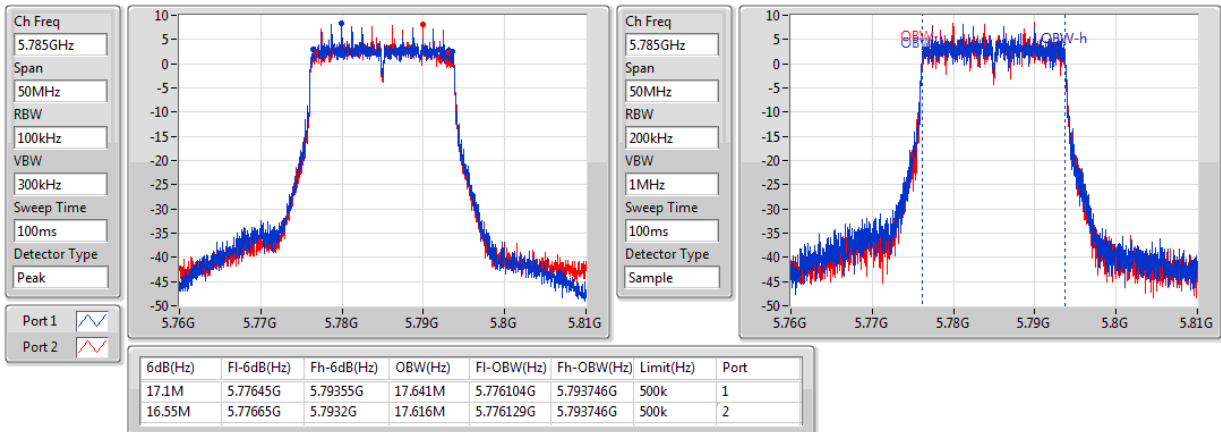
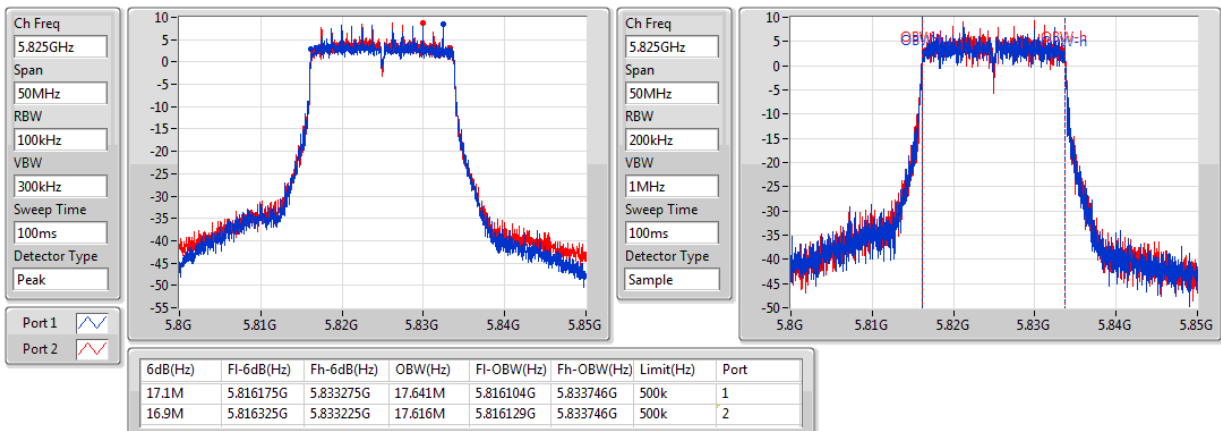
802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5745MHz

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5785MHz

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5825MHz


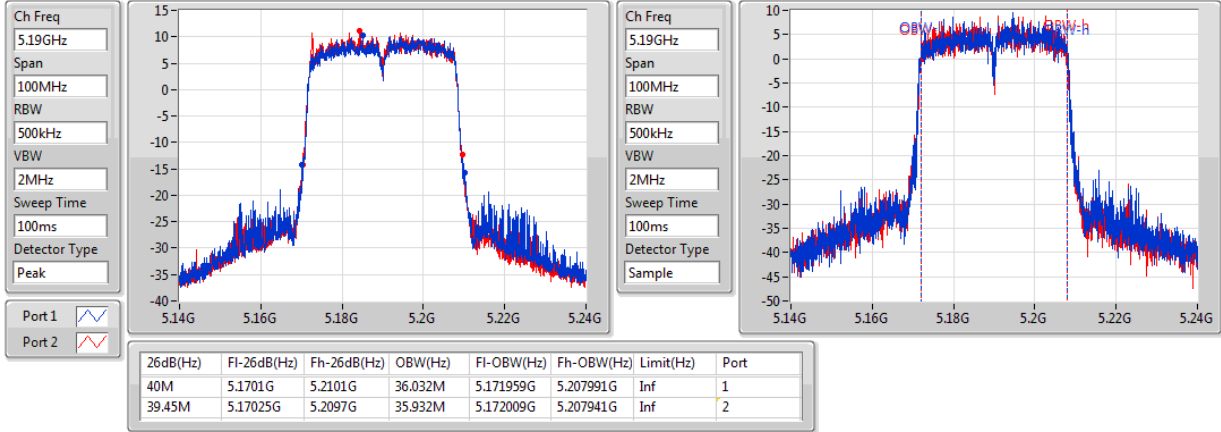
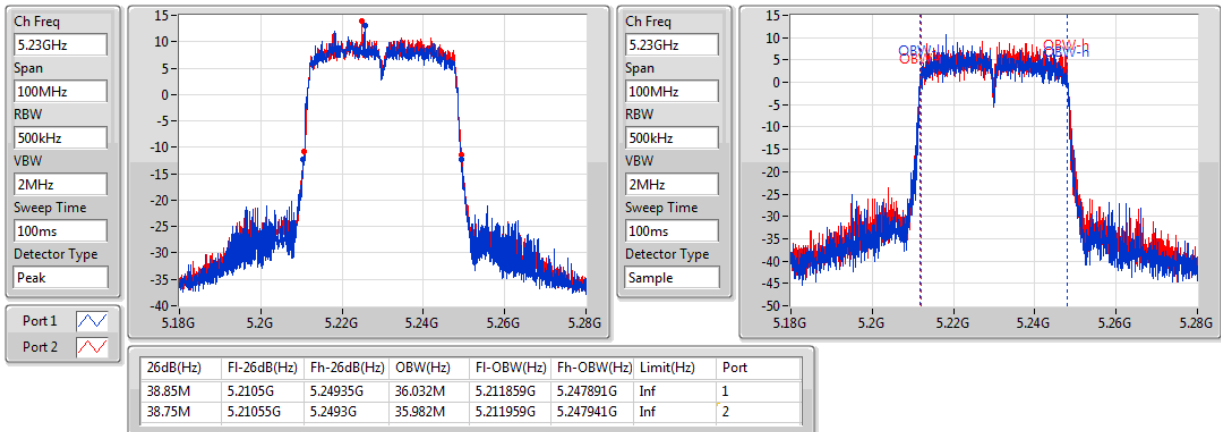
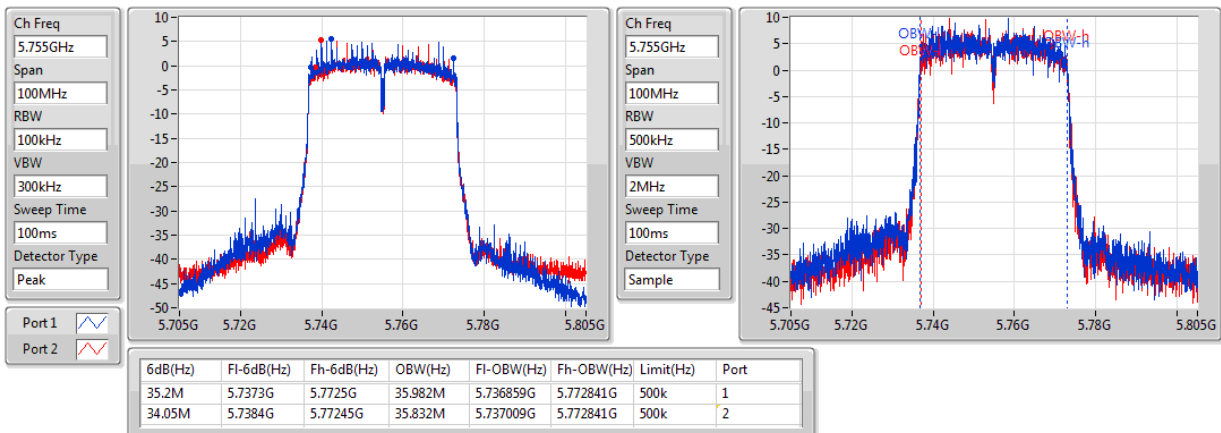
802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5190MHz

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5230MHz

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5755MHz


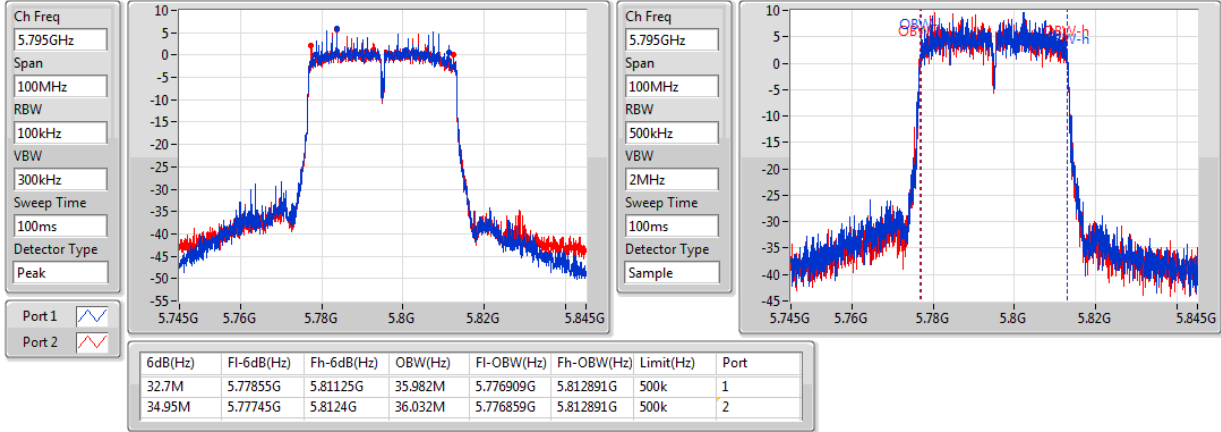
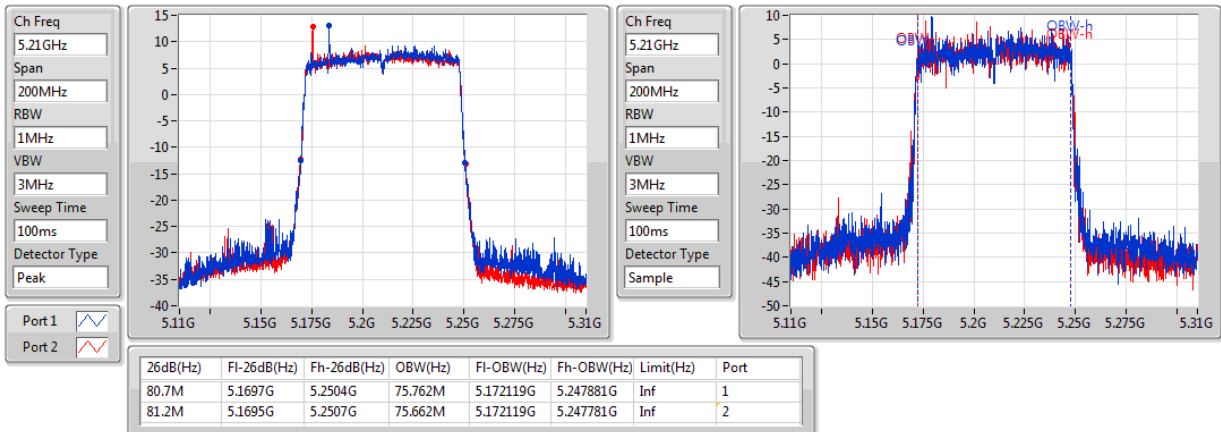
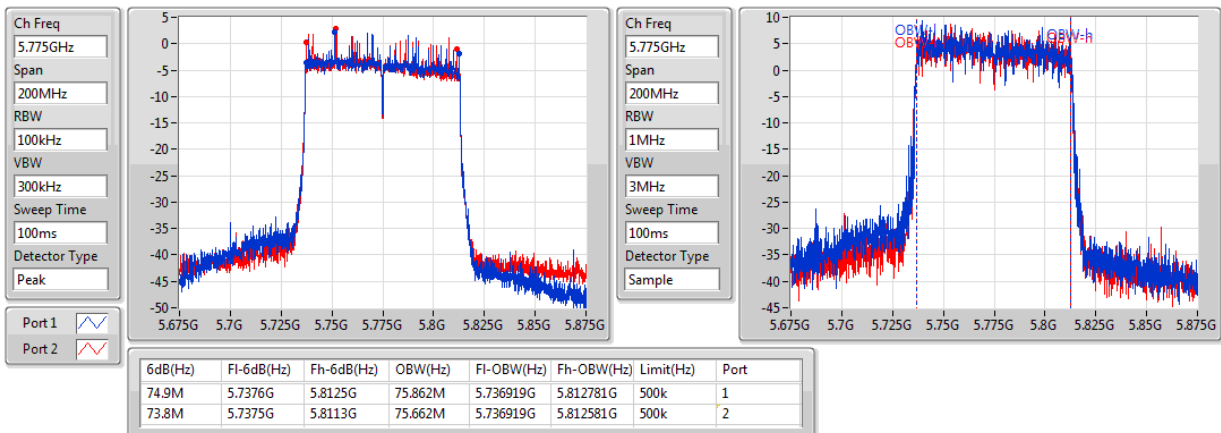
802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5795MHz

802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5210MHz

802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5775MHz


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

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

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


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

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

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


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

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

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


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

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

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


**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	26.59	0.45604
802.11ac VHT20_Nss1,(MCS0)_2TX	26.17	0.41400
802.11ac VHT40_Nss1,(MCS0)_2TX	25.86	0.38548
802.11ac VHT80_Nss1,(MCS0)_2TX	19.77	0.09484
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	22.87	0.19364
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	22.61	0.18239
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	20.82	0.12078
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	27.09	0.51168
802.11ac VHT20_Nss1,(MCS0)_2TX	26.84	0.48306
802.11ac VHT40_Nss1,(MCS0)_2TX	26.98	0.49888
802.11ac VHT80_Nss1,(MCS0)_2TX	25.42	0.34834
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	22.64	0.18365
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	22.18	0.16520
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	21.54	0.14256

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.00	23.41	23.26	26.35	30.00
5200MHz	Pass	5.00	23.59	23.57	26.59	30.00
5240MHz	Pass	5.00	23.05	23.36	26.22	30.00
5745MHz	Pass	5.00	23.57	22.83	26.23	30.00
5785MHz	Pass	5.00	23.76	23.53	26.66	30.00
5825MHz	Pass	5.00	23.94	24.21	27.09	30.00
802.11ac_VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.00	22.96	23.15	26.07	30.00
5200MHz	Pass	5.00	23.02	23.29	26.17	30.00
5240MHz	Pass	5.00	22.43	23.01	25.74	30.00
5745MHz	Pass	5.00	23.22	22.36	25.82	30.00
5785MHz	Pass	5.00	23.31	23.25	26.29	30.00
5825MHz	Pass	5.00	23.69	23.97	26.84	30.00
802.11ac_VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	5.00	18.64	18.34	21.50	30.00
5230MHz	Pass	5.00	22.72	22.97	25.86	30.00
5755MHz	Pass	5.00	23.98	23.95	26.98	30.00
5795MHz	Pass	5.00	23.24	23.12	26.19	30.00
802.11ac_VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	5.00	16.87	16.65	19.77	30.00
5775MHz	Pass	5.00	22.52	22.29	25.42	30.00
802.11ac_VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.01	19.87	19.69	22.79	27.99
5200MHz	Pass	8.01	19.83	19.71	22.78	27.99
5240MHz	Pass	8.01	19.97	19.75	22.87	27.99
5745MHz	Pass	8.01	19.41	19.36	22.40	27.99



Power Result

Appendix C

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
5785MHz	Pass	8.01	19.13	19.06	22.11	27.99
5825MHz	Pass	8.01	19.45	19.81	22.64	27.99
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.01	19.44	19.76	22.61	27.99
5230MHz	Pass	8.01	19.27	19.74	22.52	27.99
5755MHz	Pass	8.01	19.28	19.06	22.18	27.99
5795MHz	Pass	8.01	19.22	19.01	22.13	27.99
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.01	17.82	17.79	20.82	27.99
5775MHz	Pass	8.01	18.68	18.37	21.54	27.99

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	14.73
802.11ac VHT20_Nss1,(MCS0)_2TX	13.77
802.11ac VHT40_Nss1,(MCS0)_2TX	11.02
802.11ac VHT80_Nss1,(MCS0)_2TX	1.89
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	10.37
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	7.17
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	2.24
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	12.20
802.11ac VHT20_Nss1,(MCS0)_2TX	11.60
802.11ac VHT40_Nss1,(MCS0)_2TX	9.73
802.11ac VHT80_Nss1,(MCS0)_2TX	4.75
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	7.64
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	4.48
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	0.77

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.01	11.25	10.91	14.03	14.99
5200MHz	Pass	8.01	11.79	11.71	14.73	14.99
5240MHz	Pass	8.01	11.04	11.45	13.95	14.99
5745MHz	Pass	8.01	8.89	8.10	11.46	27.99
5785MHz	Pass	8.01	8.97	8.68	11.79	27.99
5825MHz	Pass	8.01	9.10	9.34	12.20	27.99
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.01	10.64	10.61	13.53	14.99
5200MHz	Pass	8.01	10.87	10.74	13.77	14.99
5240MHz	Pass	8.01	10.10	10.88	13.31	14.99
5745MHz	Pass	8.01	8.15	7.24	10.67	27.99
5785MHz	Pass	8.01	8.26	8.14	11.07	27.99
5825MHz	Pass	8.01	8.51	8.86	11.60	27.99
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.01	3.94	3.38	6.50	14.99
5230MHz	Pass	8.01	8.10	8.44	11.02	14.99
5755MHz	Pass	8.01	6.91	6.69	9.73	27.99
5795MHz	Pass	8.01	5.63	5.50	8.50	27.99
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.01	-0.55	-1.28	1.89	14.99
5775MHz	Pass	8.01	1.91	1.77	4.75	27.99
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.01	7.15	6.93	9.92	14.99
5200MHz	Pass	8.01	6.64	6.88	9.67	14.99
5240MHz	Pass	8.01	7.87	6.96	10.37	14.99
5745MHz	Pass	8.01	4.41	4.56	7.44	27.99
5785MHz	Pass	8.01	4.12	4.09	6.98	27.99
5825MHz	Pass	8.01	4.38	5.07	7.64	27.99
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.01	4.05	4.35	7.15	14.99
5230MHz	Pass	8.01	4.42	4.54	7.17	14.99
5755MHz	Pass	8.01	1.52	1.42	4.47	27.99
5795MHz	Pass	8.01	1.72	1.44	4.48	27.99
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.01	-0.40	-0.69	2.24	14.99
5775MHz	Pass	8.01	-2.18	-2.25	0.77	27.99

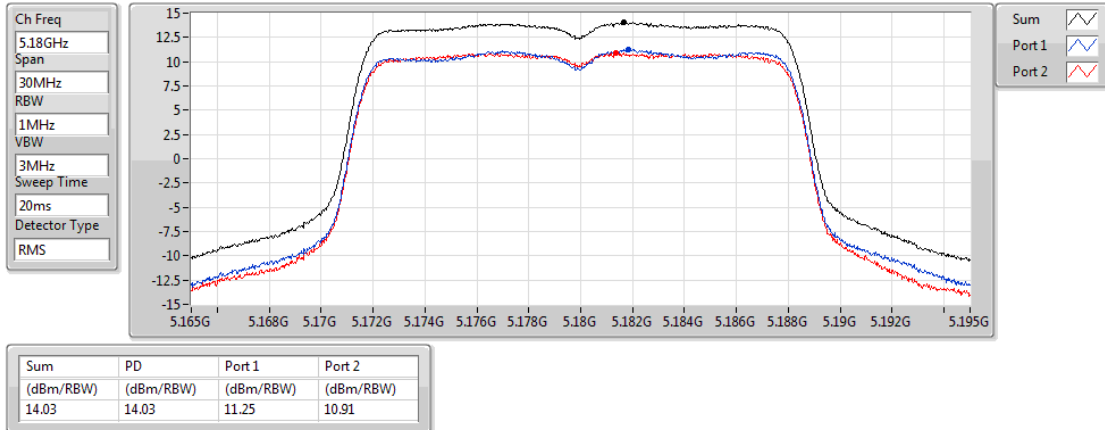
DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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

802.11a_Nss1,(6Mbps)_2TX

PSD

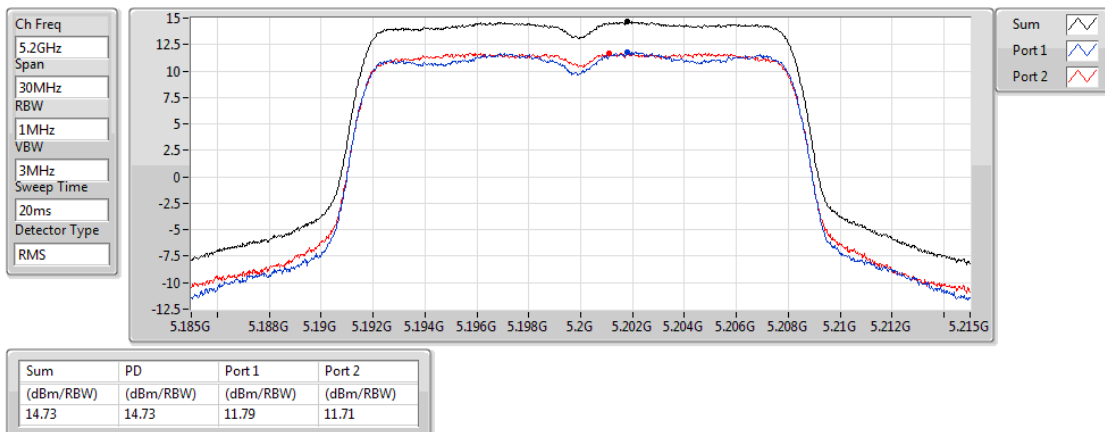
5180MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

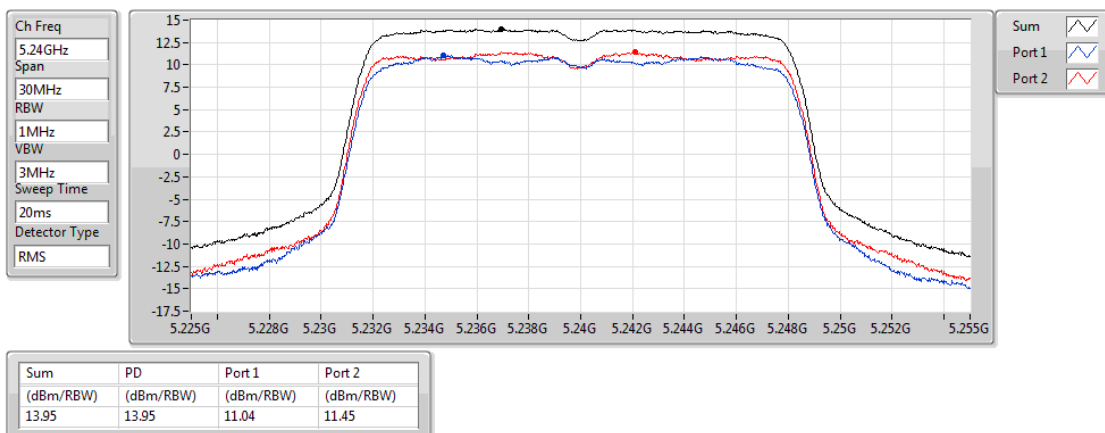
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802.11a_Nss1,(6Mbps)_2TX

PSD

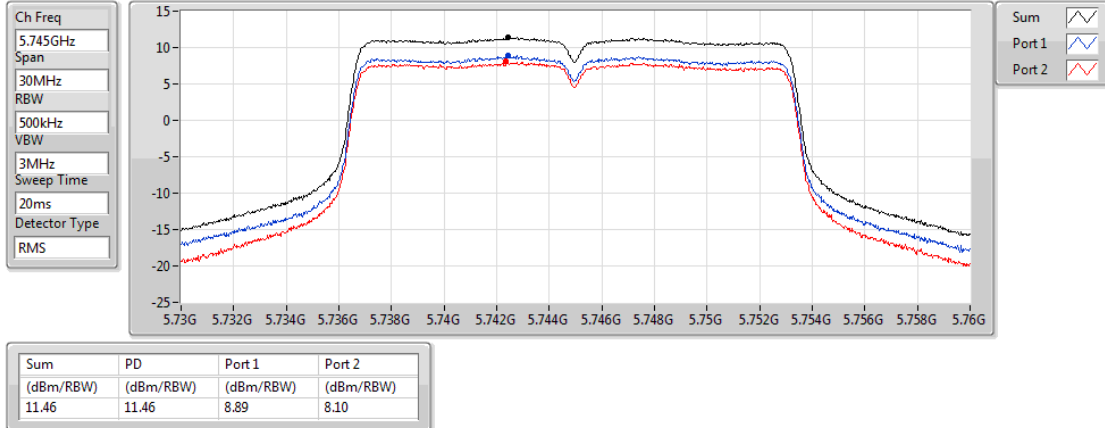
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802.11a_Nss1,(6Mbps)_2TX

PSD

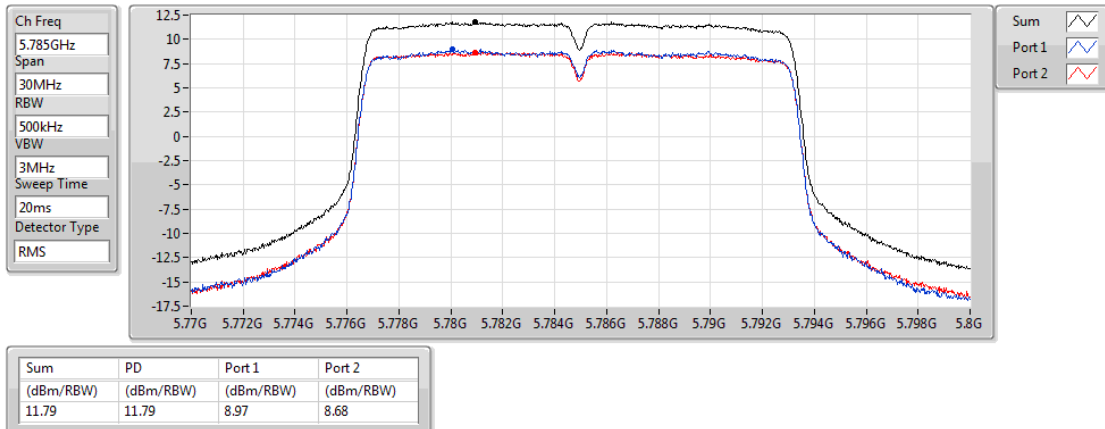
5745MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

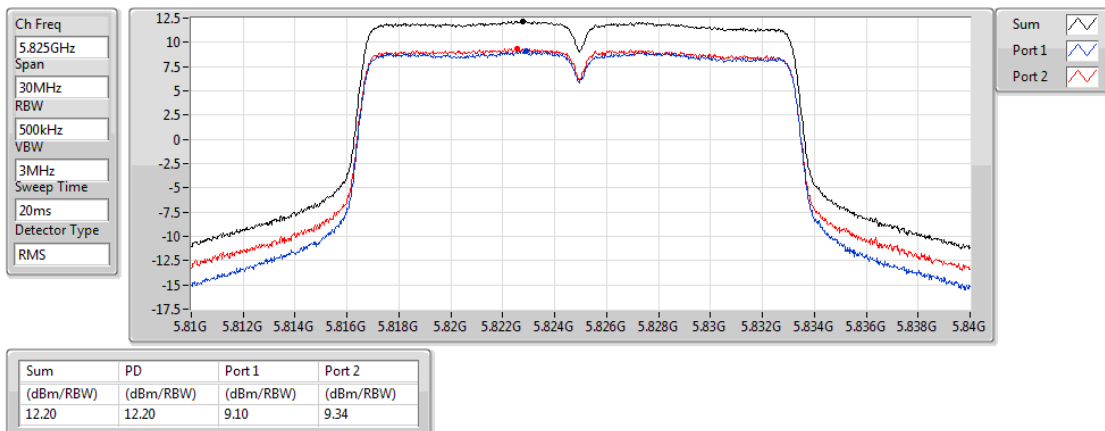
5785MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

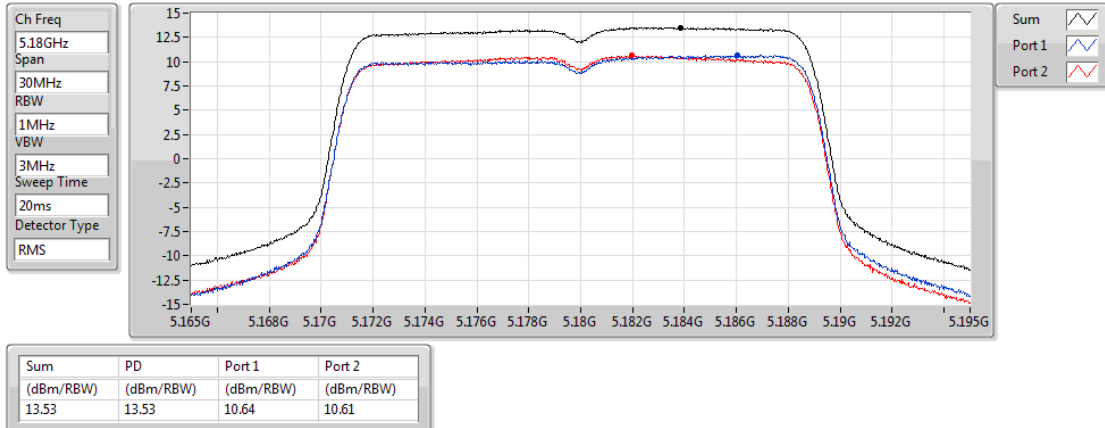
5825MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

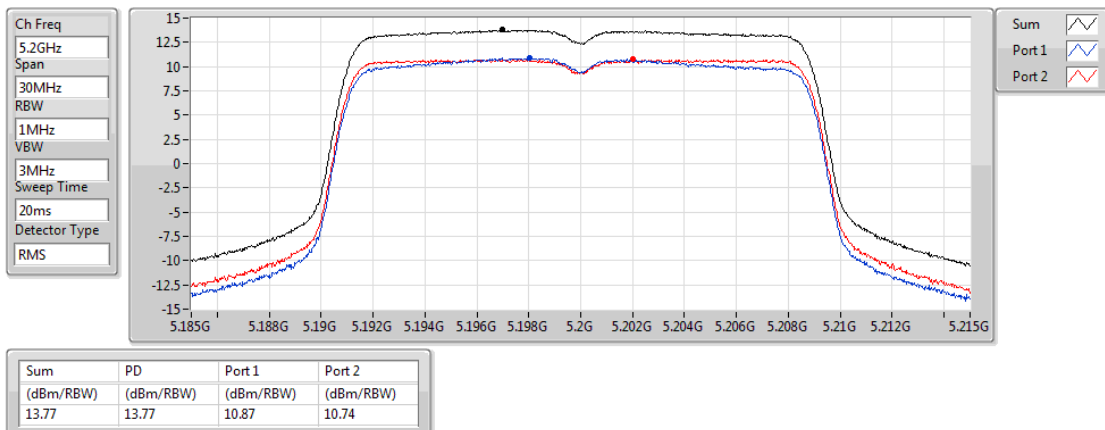
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802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

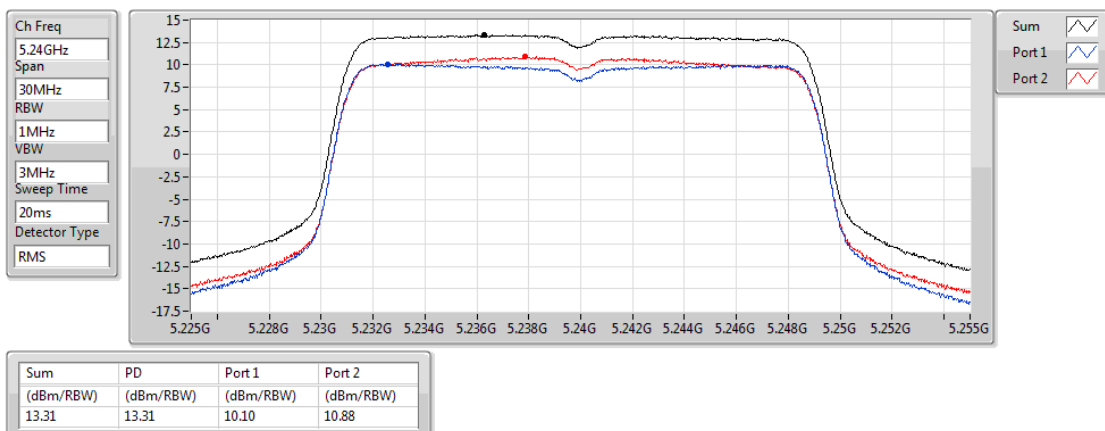
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802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

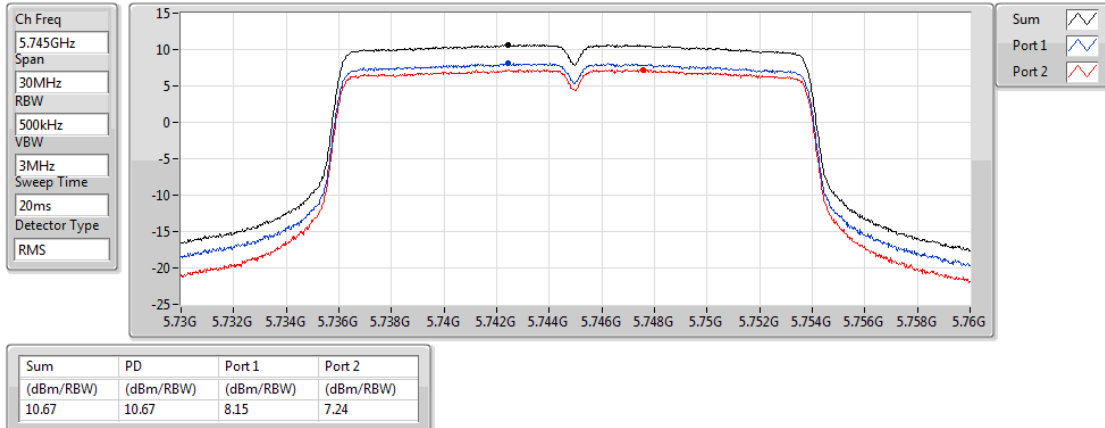
5240MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

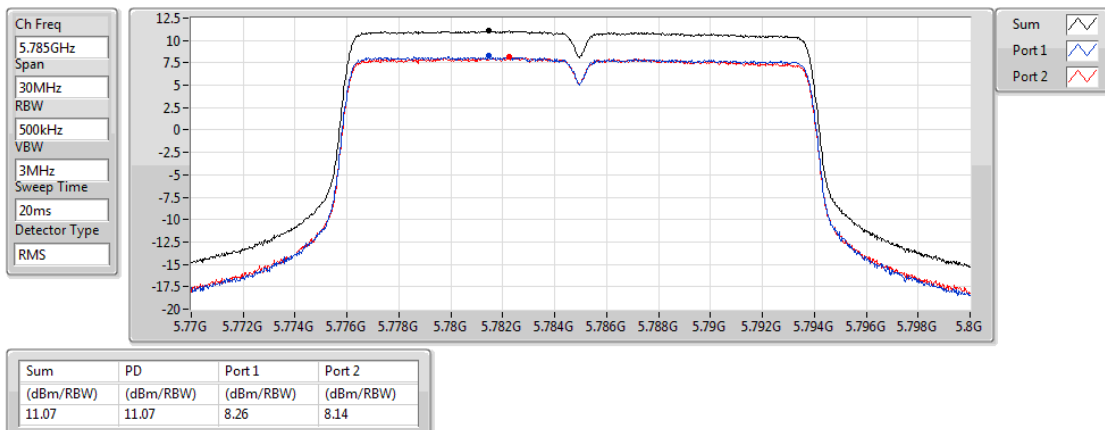
5745MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

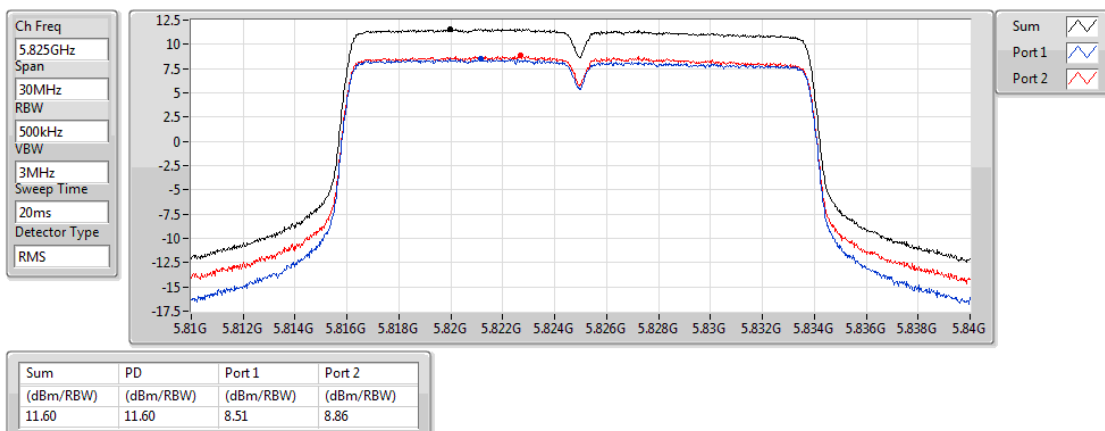
5785MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

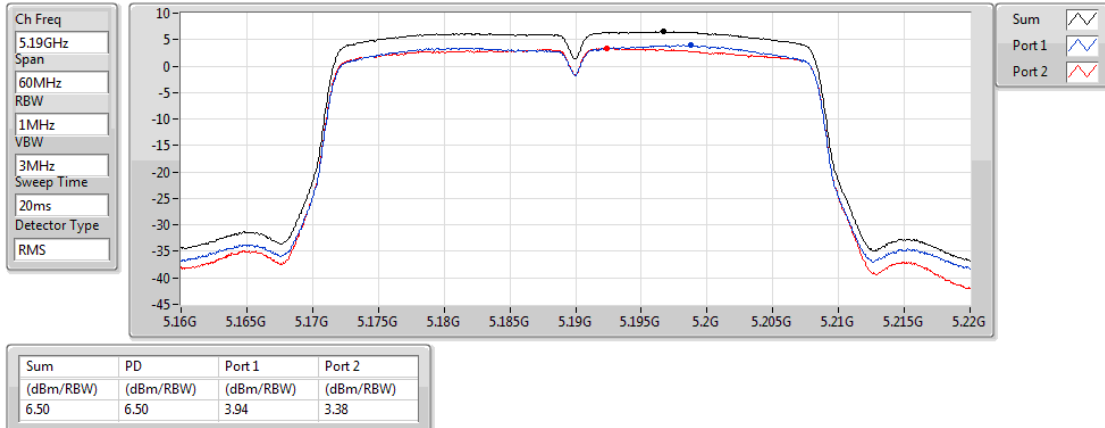
5825MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

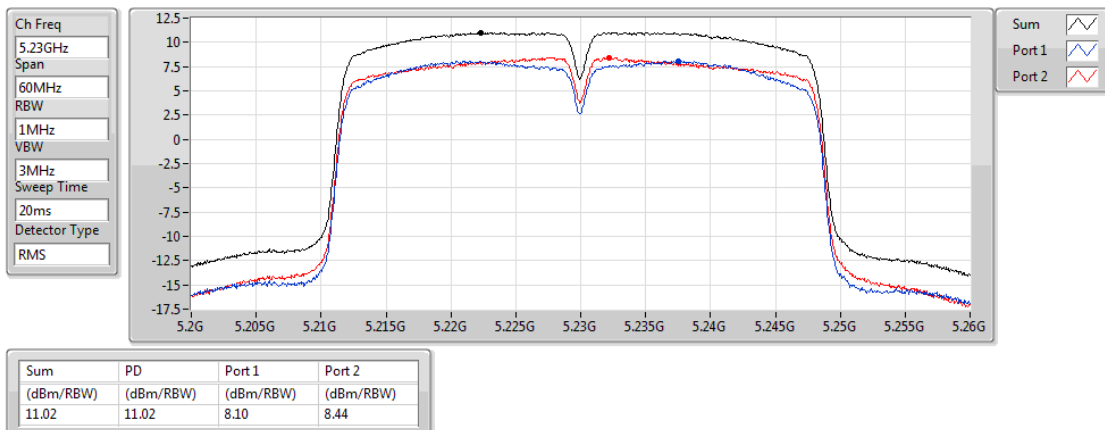
5190MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

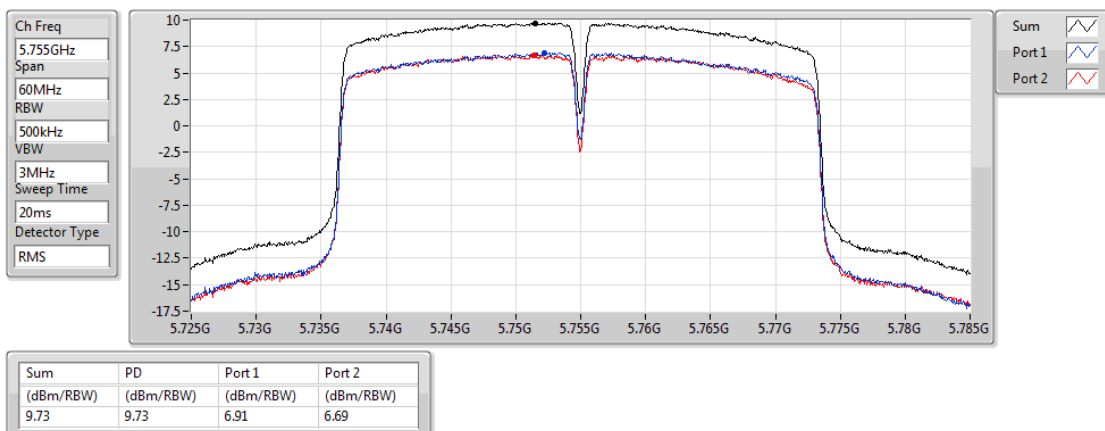
5230MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

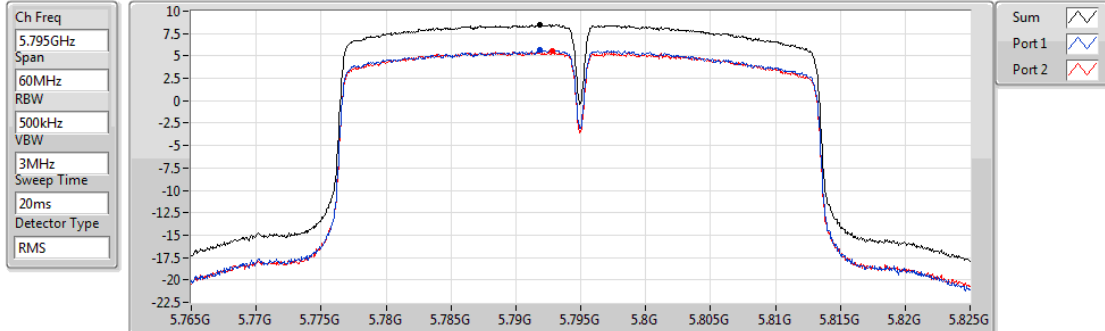
5755MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

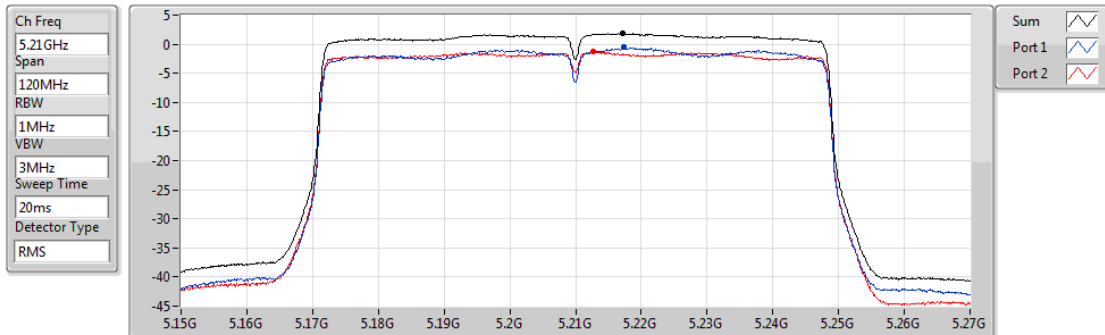


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.50	8.50	5.63	5.50

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5210MHz

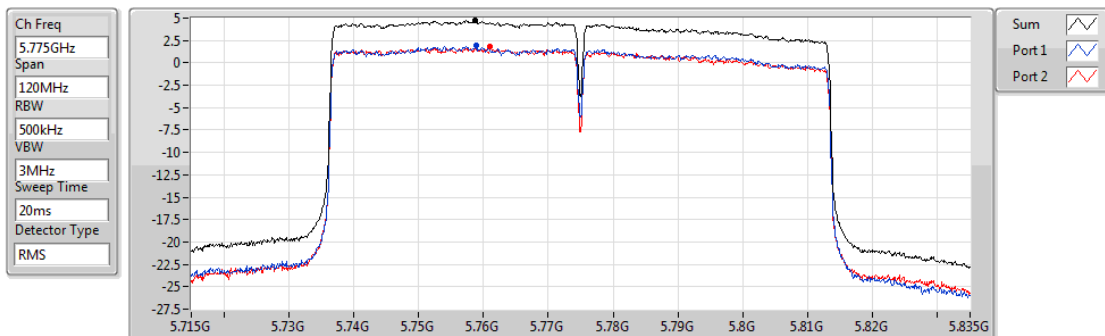


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.89	1.89	-0.55	-1.28

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5775MHz

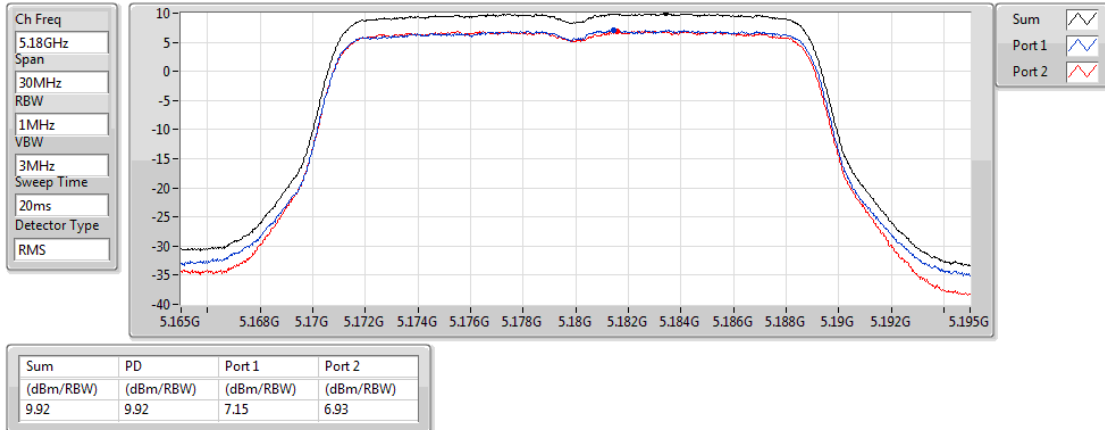


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.75	4.75	1.91	1.77

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

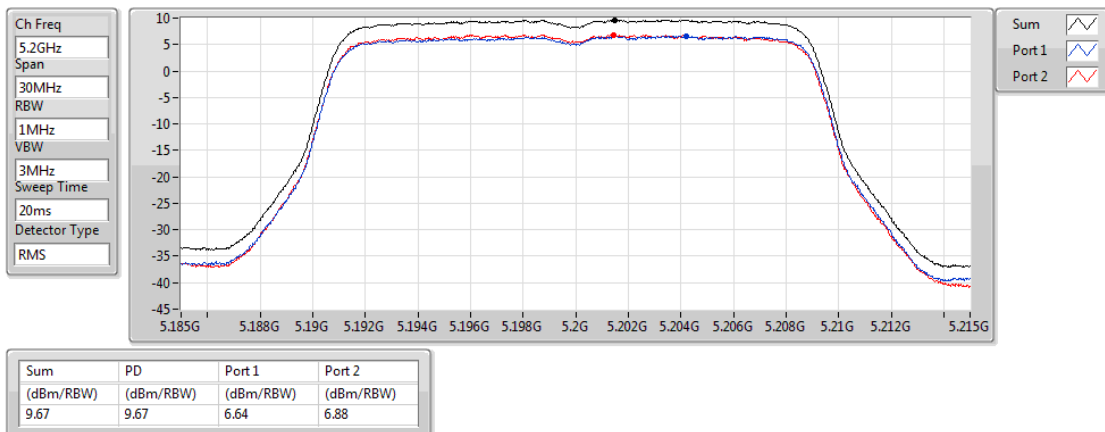
5180MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

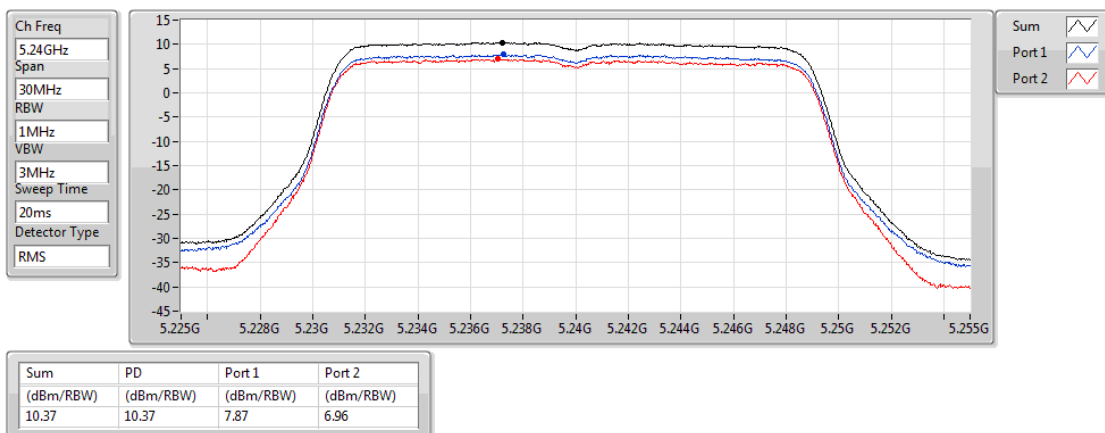
5200MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

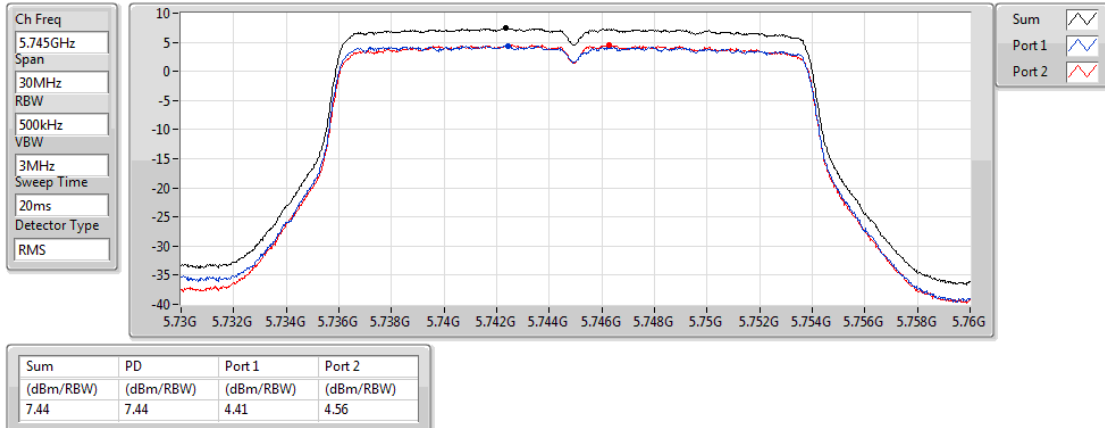
5240MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

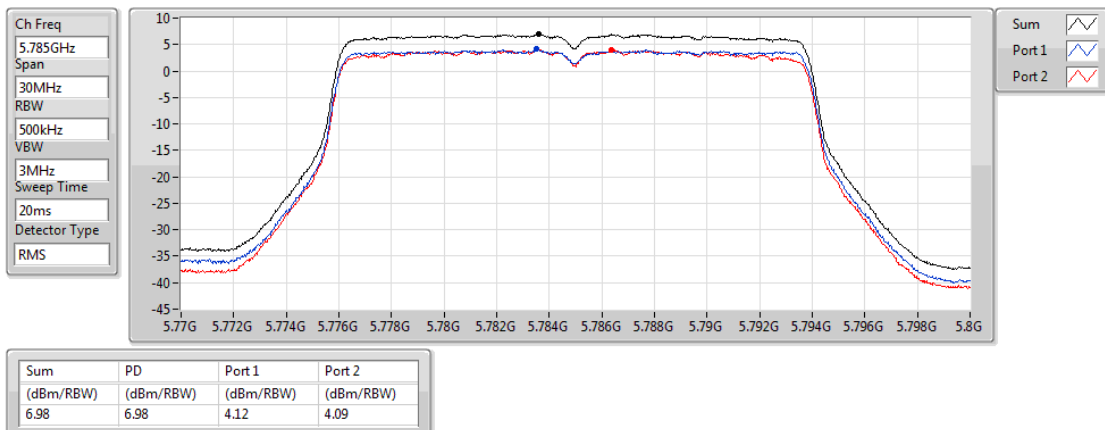
5745MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

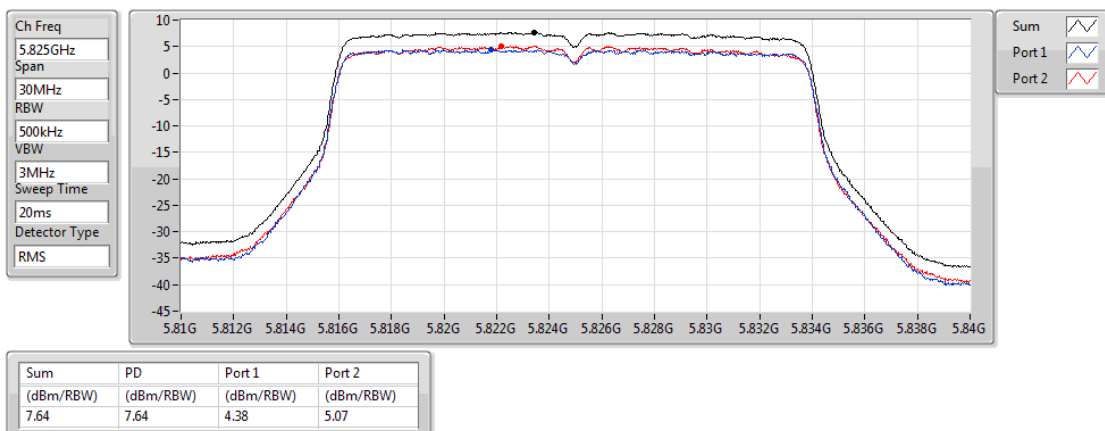
5785MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

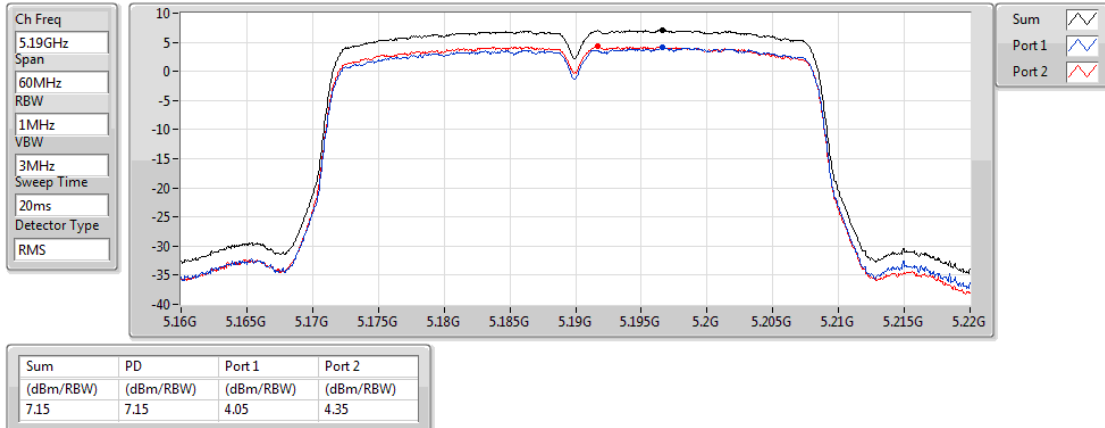
5825MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

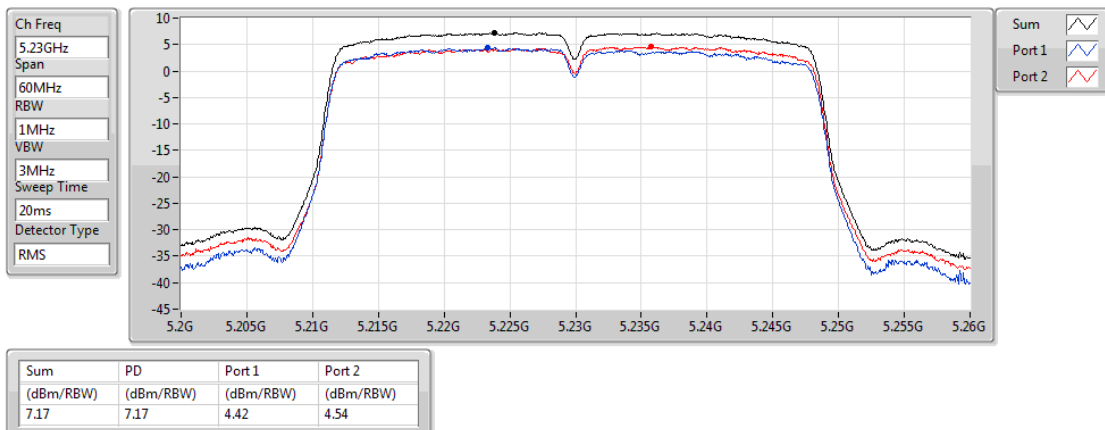
5190MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

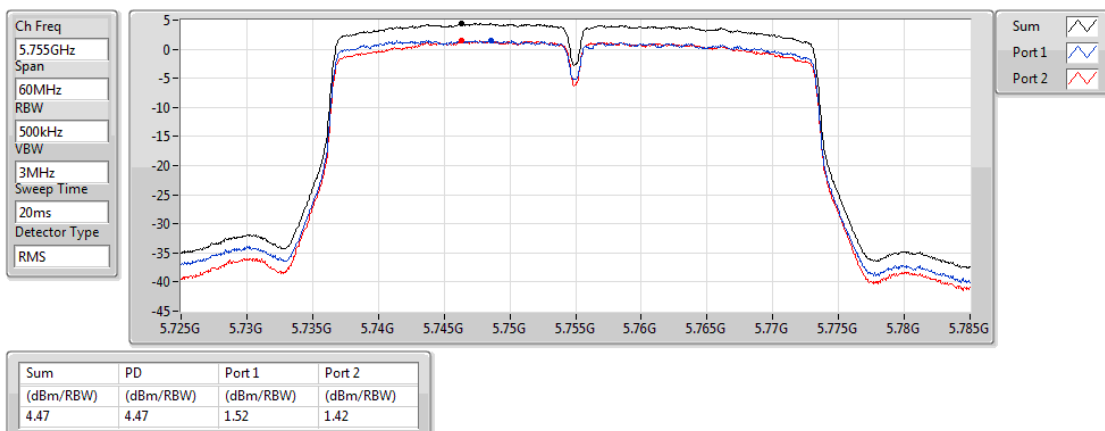
5230MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

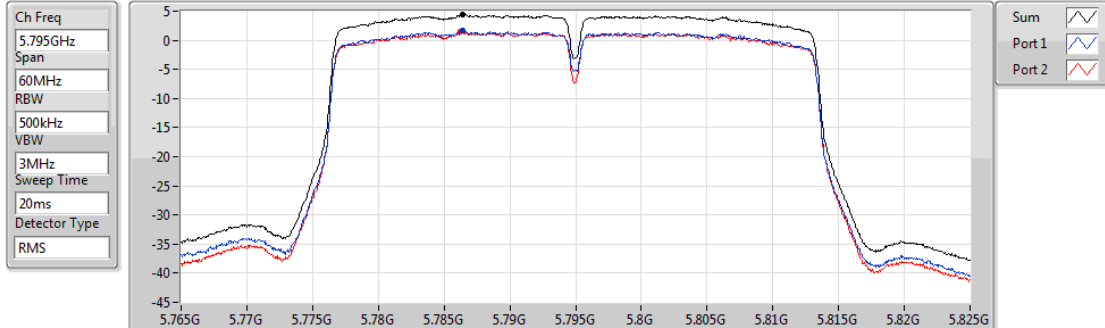
5755MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5795MHz

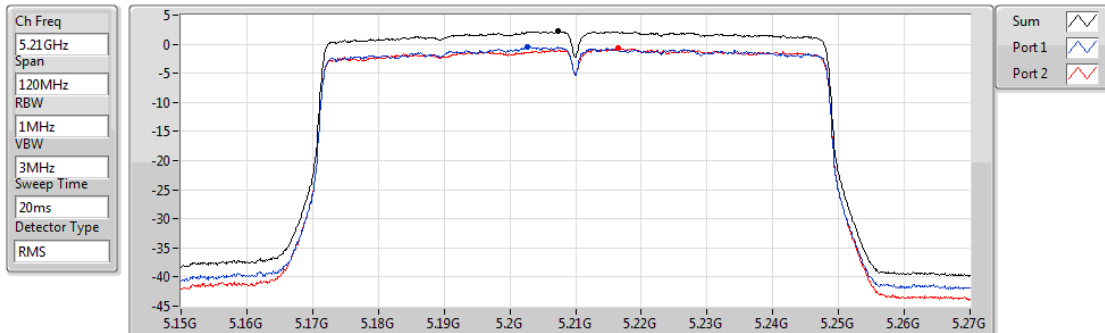


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.48	4.48	1.72	1.44

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

5210MHz

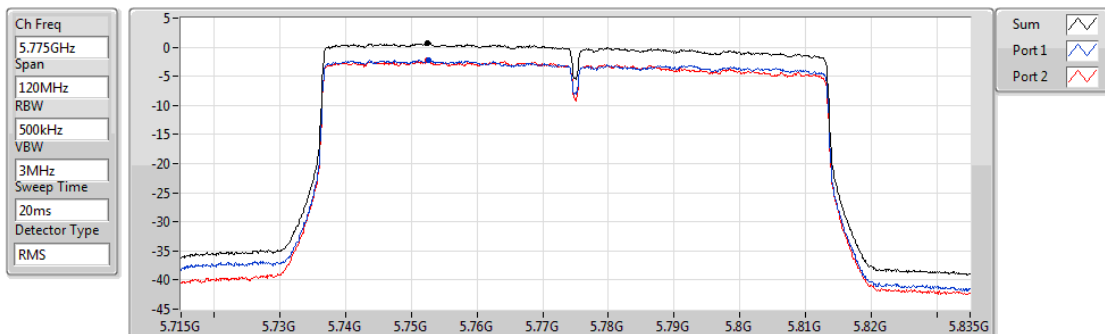


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.24	2.24	-0.40	-0.69

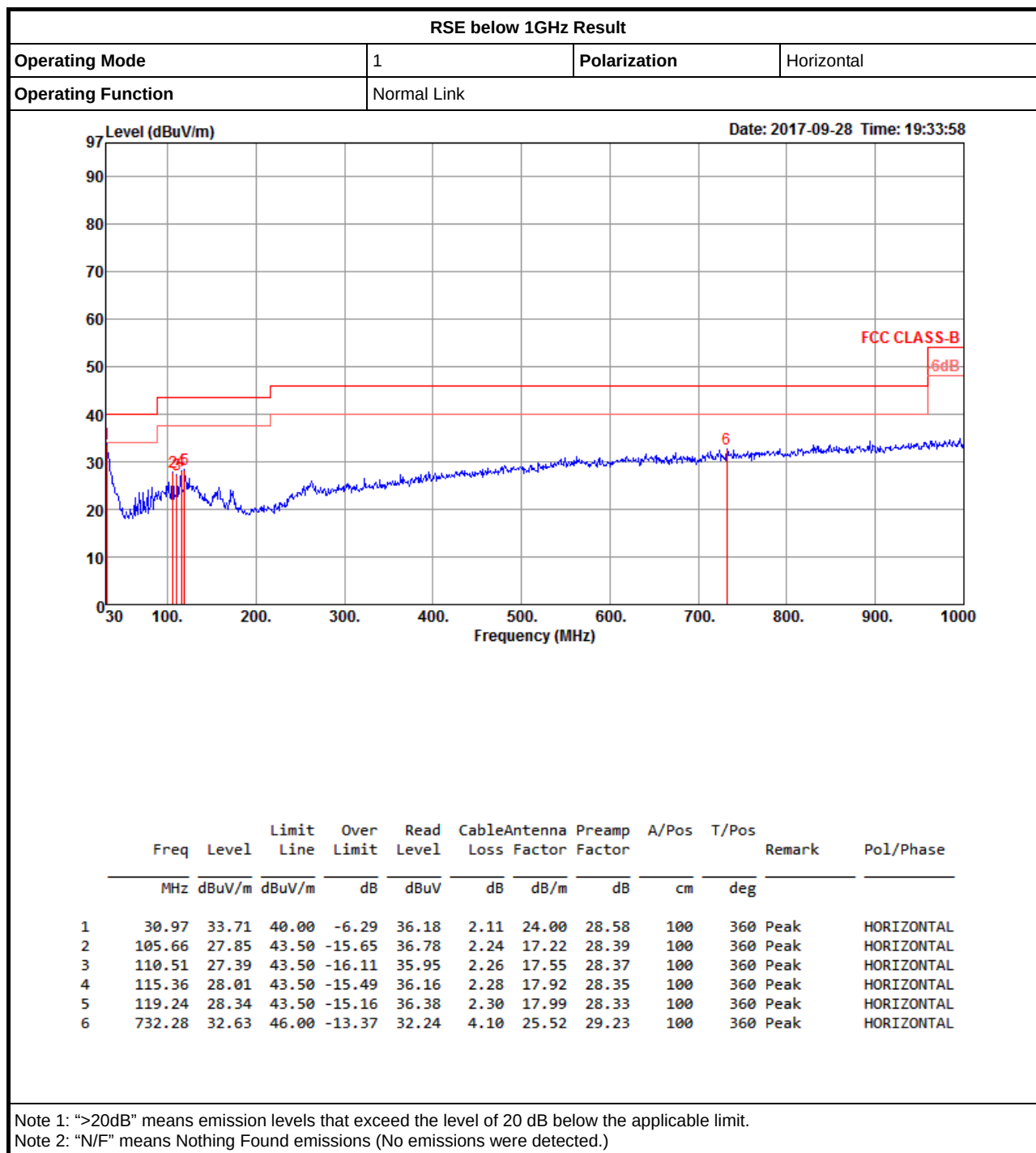
802.11ac VHT80-BF_Nss1,(MCS0)_2TX

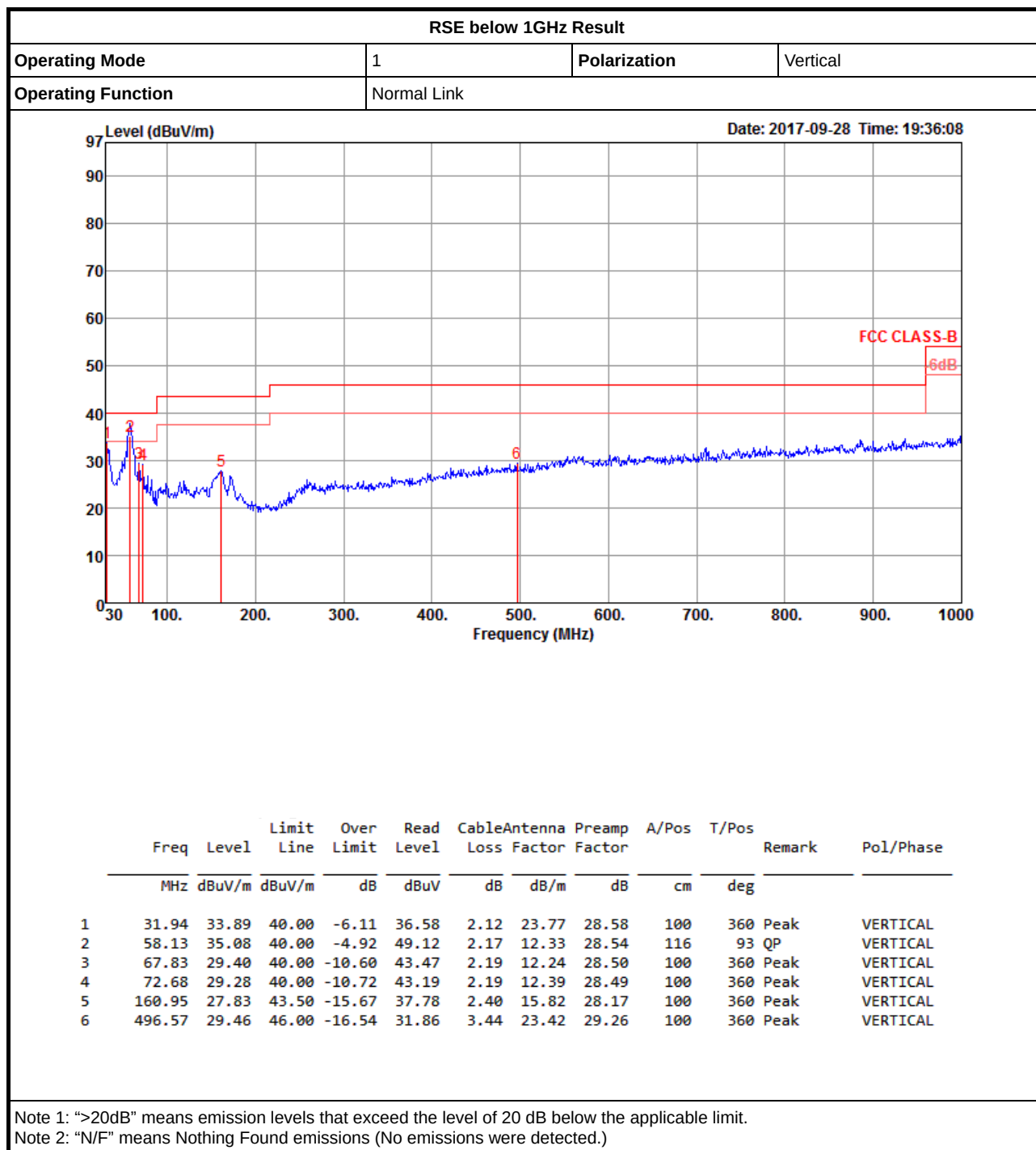
PSD

5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.77	0.77	-2.18	-2.25







RSE TX above 1GHz Result

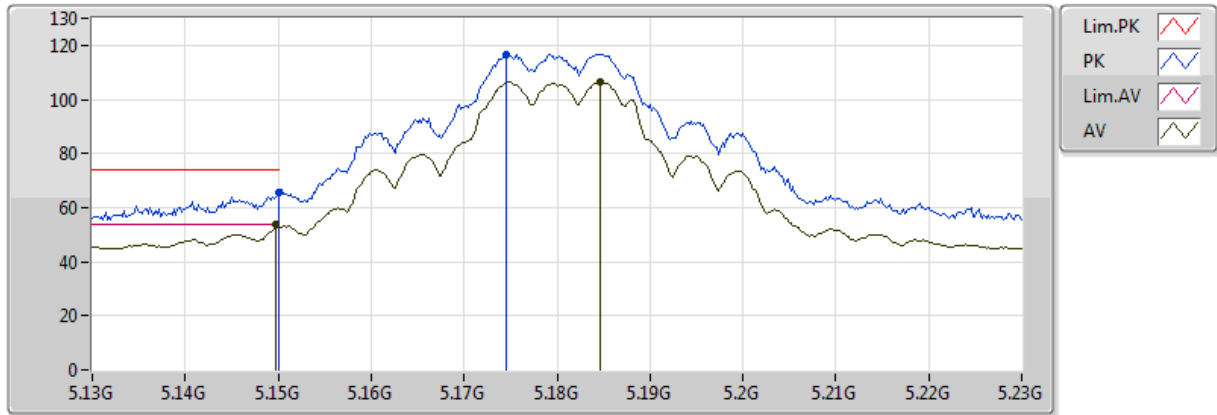
Appendix E.2

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	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	Pass	PK	5.149995G	73.99	74.00	-0.01	7.61	3	Vertical	85	2.99	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

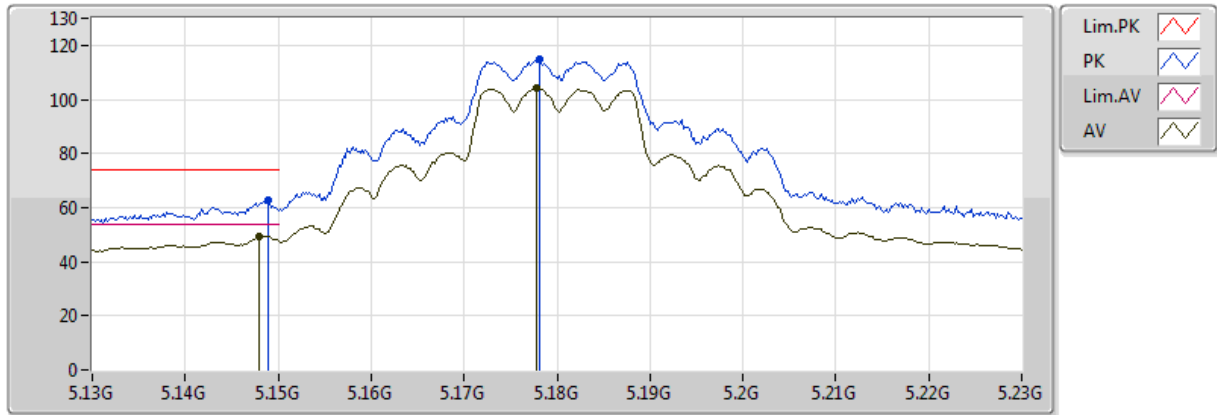


20171019
EUT_Z_2TX
Setting 23
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1498G	53.88	54.00	-0.12	4.17	3	Vertical	45	1.06					
AV	5.1846G	106.55	Inf	-Inf	4.25	3	Vertical	45	1.06					
PK	5.149995G	65.73	74.00	-8.27	4.17	3	Vertical	45	1.06					
PK	5.1746G	116.83	Inf	-Inf	4.22	3	Vertical	45	1.06					

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

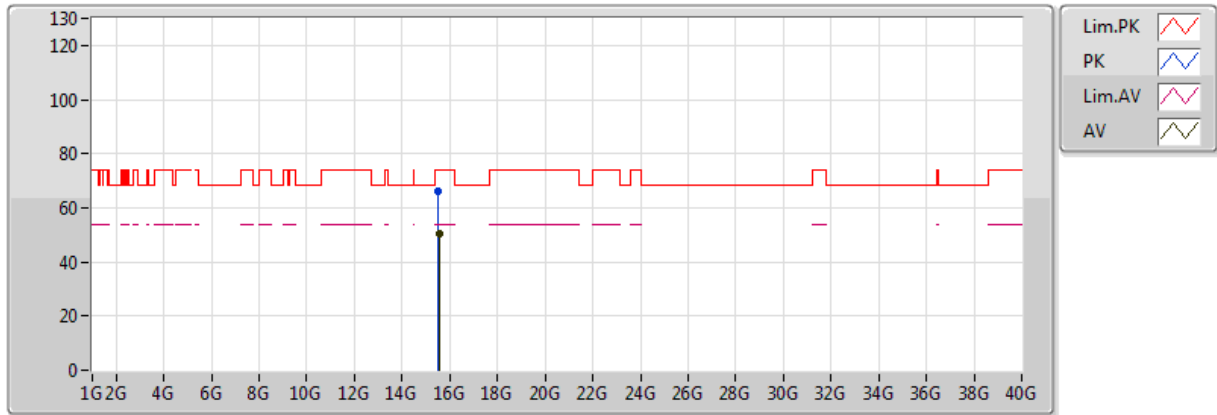


20171019
EUT_Z_2TX
Setting 23
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.148G	49.51	54.00	-4.49	4.17	3	Horizontal	78	1.06					
AV	5.1778G	103.99	Inf	-Inf	4.23	3	Horizontal	78	1.06					
PK	5.149G	62.60	74.00	-11.40	4.17	3	Horizontal	78	1.06					
PK	5.1782G	114.73	Inf	-Inf	4.23	3	Horizontal	78	1.06					

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

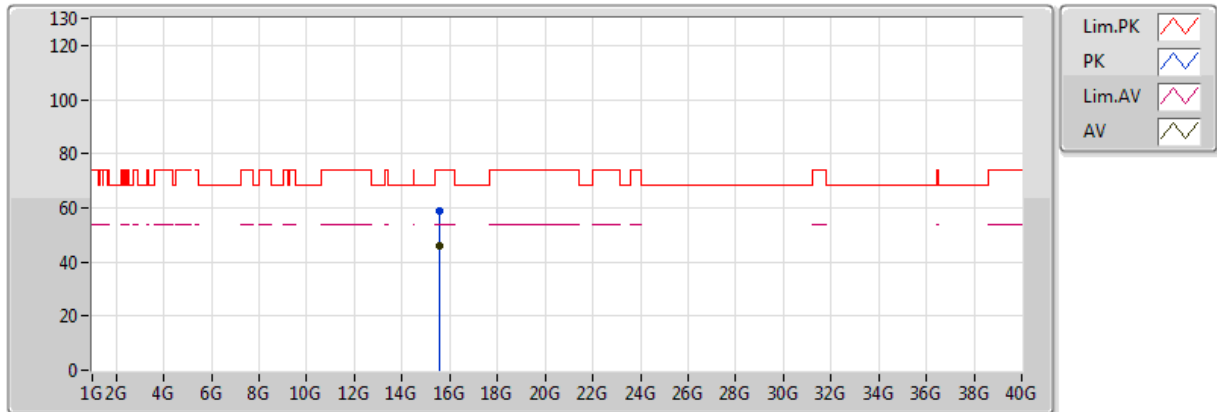


20171019
EUT Z_2TX
Setting 23
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.54044G	50.69	54.00	-3.31	13.53	3	Vertical	209	2.88					
PK	15.53644G	65.89	74.00	-8.11	13.54	3	Vertical	209	2.88					

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

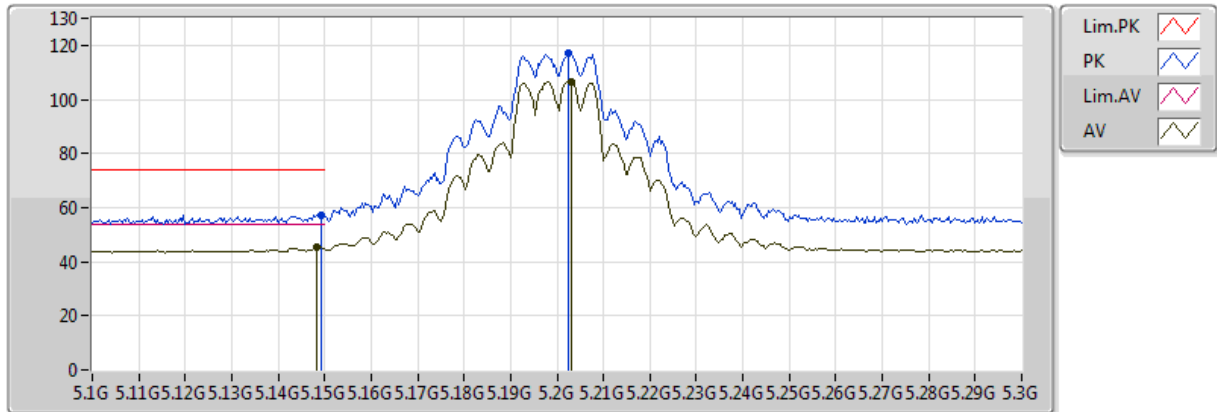


20171019
EUT_Z_2TX
Setting 23
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.54236G	45.89	54.00	-8.11	13.53	3	Horizontal	98	2.98					
PK	15.53804G	59.02	74.00	-14.98	13.54	3	Horizontal	98	2.98					

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

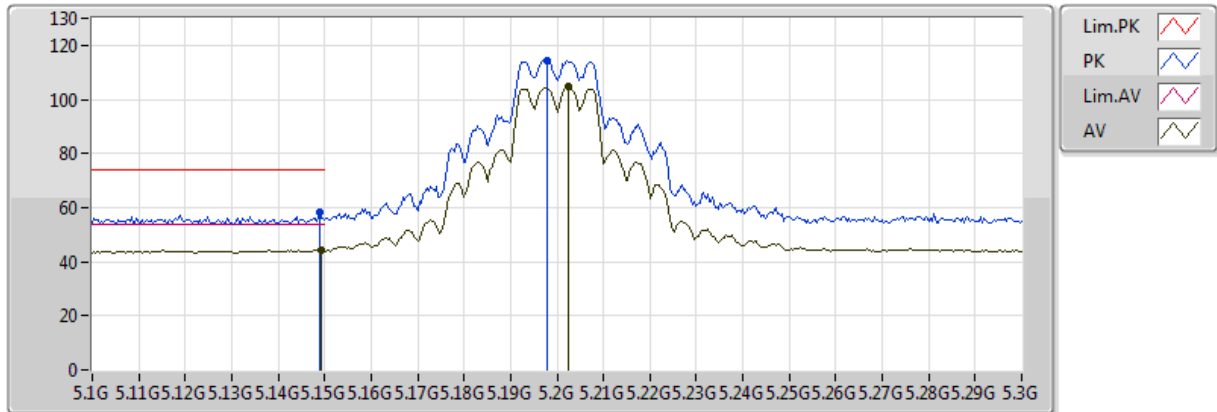


20171019
EUT_Z_2TX
Setting 25 (Max)
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1484G	45.35	54.00	-8.65	4.17	3	Vertical	57	1.52					
AV	5.2032G	106.48	Inf	-Inf	4.29	3	Vertical	57	1.52					
PK	5.1492G	57.41	74.00	-16.59	4.17	3	Vertical	57	1.52					
PK	5.2024G	117.39	Inf	-Inf	4.28	3	Vertical	57	1.52					

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

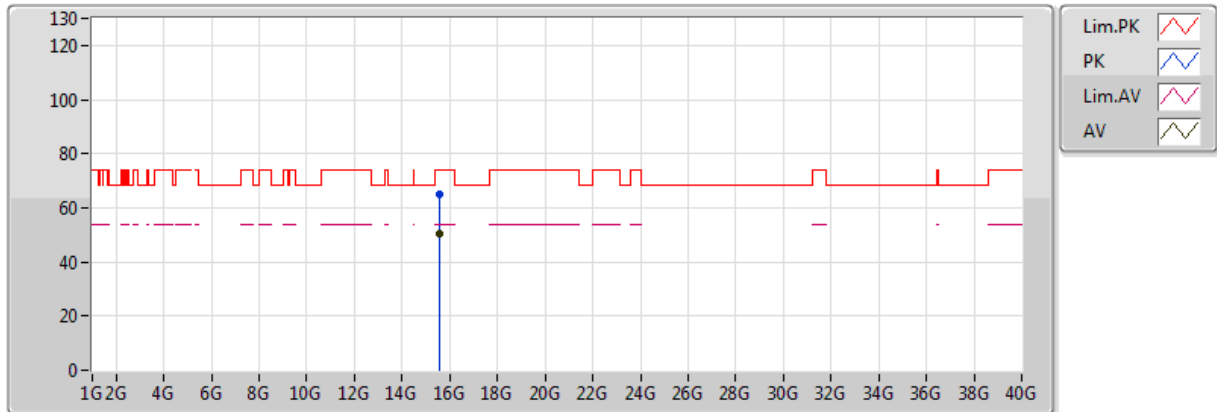


20171019
EUT_Z_2TX
Setting 25 (Max)
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1492G	44.51	54.00	-9.49	4.17	3	Horizontal	78	1.01					
AV	5.2024G	104.53	Inf	-Inf	4.28	3	Horizontal	78	1.01					
PK	5.1488G	58.01	74.00	-15.99	4.17	3	Horizontal	78	1.01					
PK	5.198G	114.59	Inf	-Inf	4.28	3	Horizontal	78	1.01					

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

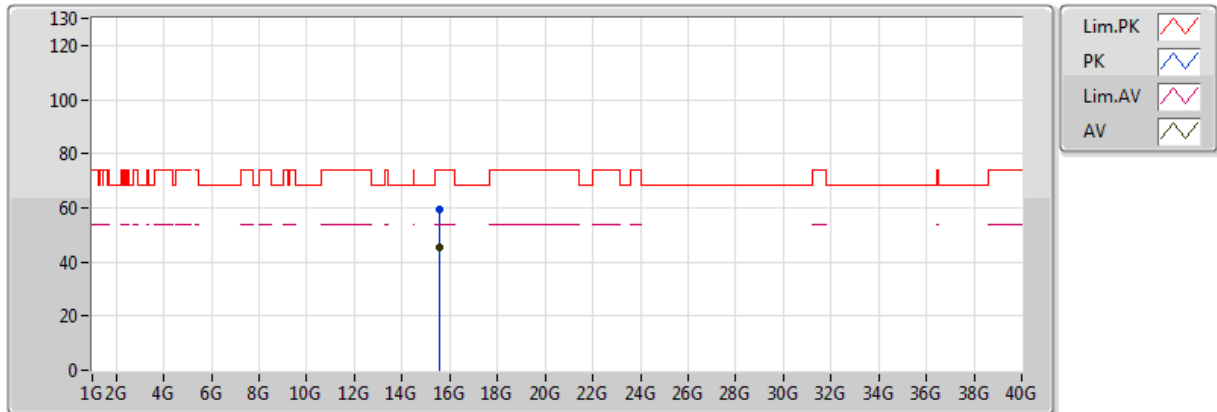


20171019
EUT Z_2TX
Setting 25 (Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.6G	50.36	54.00	-3.64	13.46	3	Vertical	209	2.87					
PK	15.5967G	64.95	74.00	-9.05	13.47	3	Vertical	209	2.87					

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

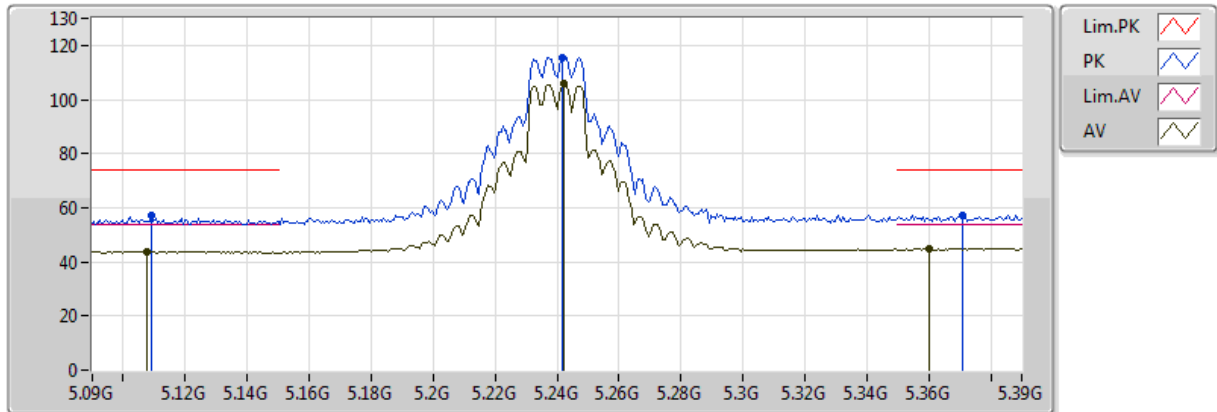


20171019
EUT Z_2TX
Setting 25 (Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.59046G	45.14	54.00	-8.86	13.48	3	Horizontal	311	1.02					
PK	15.59538G	59.30	74.00	-14.70	13.47	3	Horizontal	311	1.02					

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

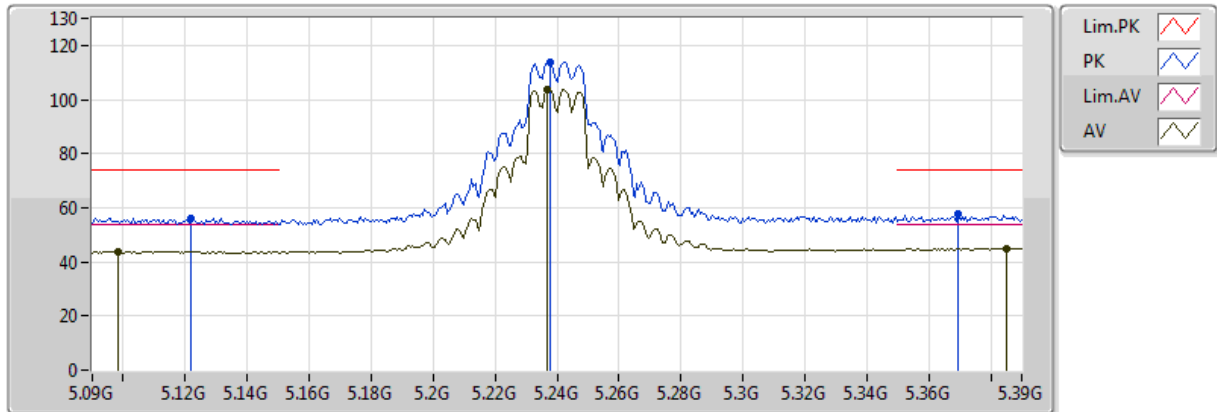


20171019
EUT_Z_2TX
Setting 25 (Max)
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1074G	43.88	54.00	-10.12	4.08	3	Vertical	59	1.44					
AV	5.2424G	105.71	Inf	-Inf	4.35	3	Vertical	59	1.44					
AV	5.36G	45.01	54.00	-8.99	4.53	3	Vertical	59	1.44					
PK	5.1092G	56.89	74.00	-17.11	4.08	3	Vertical	59	1.44					
PK	5.2418G	115.52	Inf	-Inf	4.35	3	Vertical	59	1.44					
PK	5.3708G	57.21	74.00	-16.79	4.55	3	Vertical	59	1.44					

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

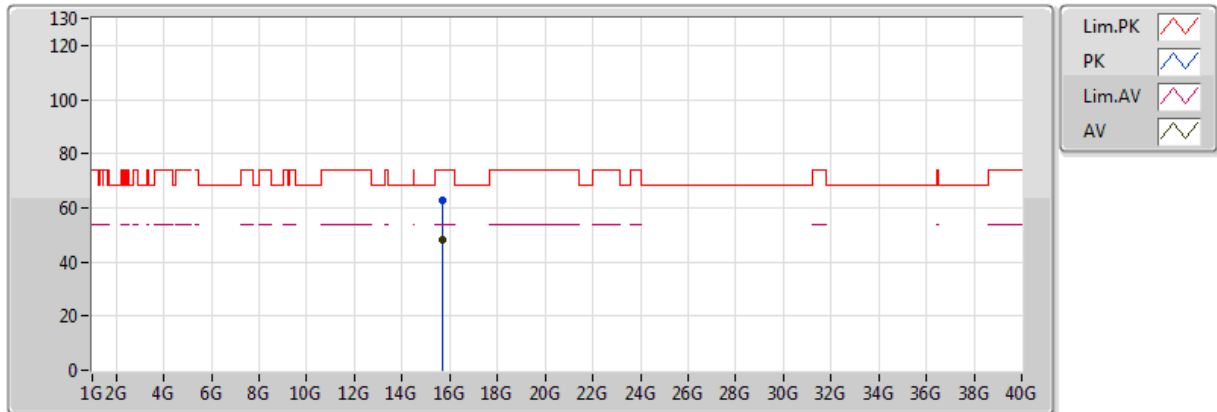


20171019
EUT_Z_2TX
Setting 25 (Max)
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.0984G	43.85	54.00	-10.15	4.06	3	Horizontal	76	1.09					
AV	5.237G	103.82	Inf	-Inf	4.34	3	Horizontal	76	1.09					
AV	5.3852G	44.94	54.00	-9.06	4.57	3	Horizontal	76	1.09					
PK	5.1218G	56.08	74.00	-17.92	4.11	3	Horizontal	76	1.09					
PK	5.2376G	114.02	Inf	-Inf	4.34	3	Horizontal	76	1.09					
PK	5.3696G	57.92	74.00	-16.08	4.55	3	Horizontal	76	1.09					

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

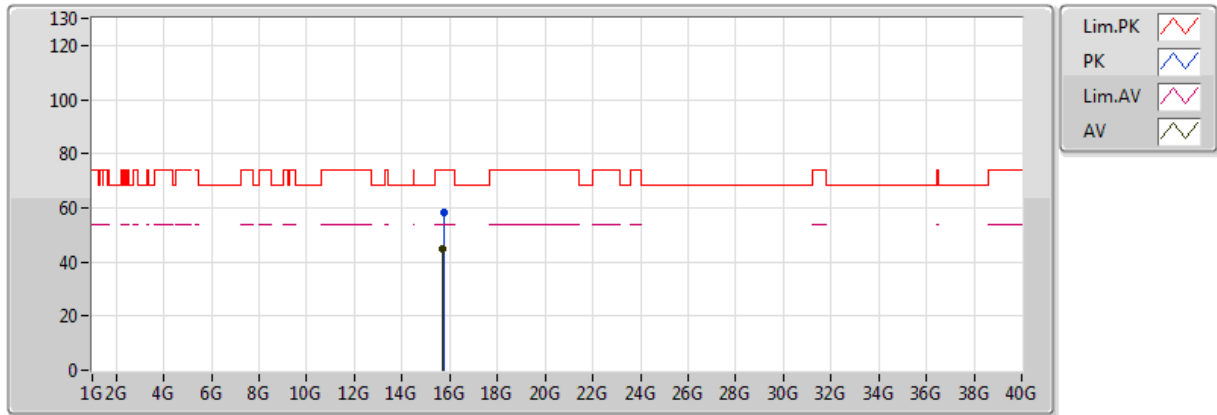


20171019
EUT Z_2TX
Setting 25 (Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.71874G	48.16	54.00	-5.84	13.33	3	Vertical	212	2.83					
PK	15.7167G	62.54	74.00	-11.46	13.33	3	Vertical	212	2.83					

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

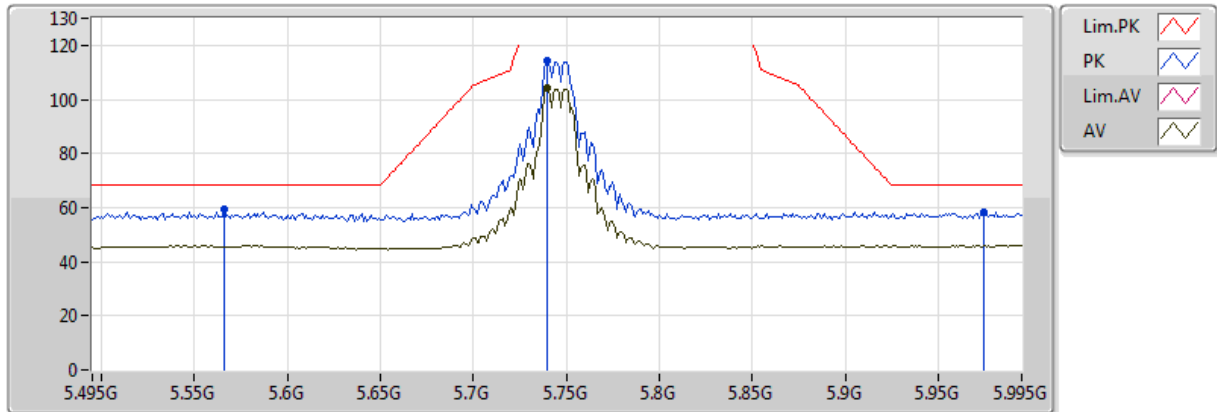


20171019
EUT Z_2TX
Setting 25 (Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.72552G	44.82	54.00	-9.18	13.32	3	Horizontal	280	2.99					
PK	15.73368G	58.26	74.00	-15.74	13.31	3	Horizontal	280	2.99					

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

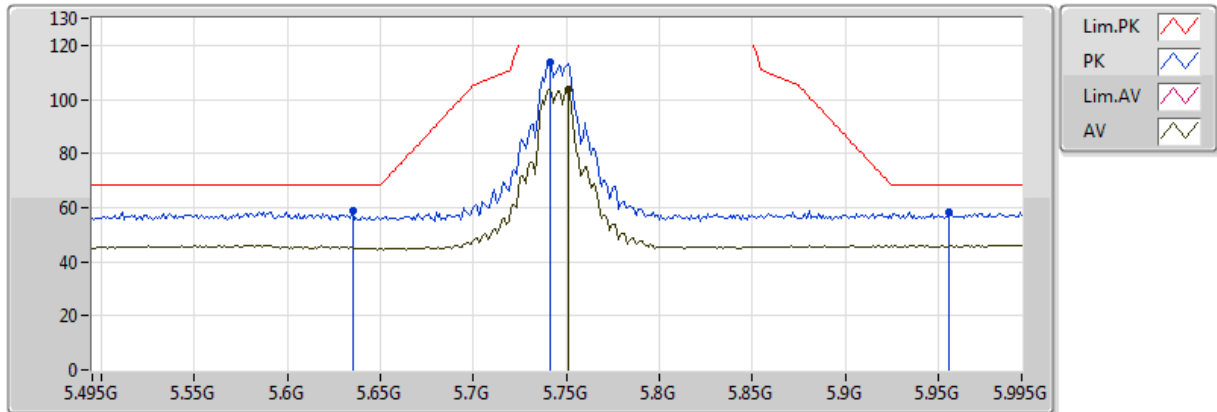


20171019
EUT_Z_2TX
Setting 25 (Max)
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.74G	104.35	Inf	-Inf	5.71	3	Vertical	68	1.33					
PK	5.566G	59.12	68.20	-9.08	5.17	3	Vertical	68	1.33					
PK	5.74G	114.34	Inf	-Inf	5.71	3	Vertical	68	1.33					
PK	5.975G	58.35	68.20	-9.85	6.52	3	Vertical	68	1.33					

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

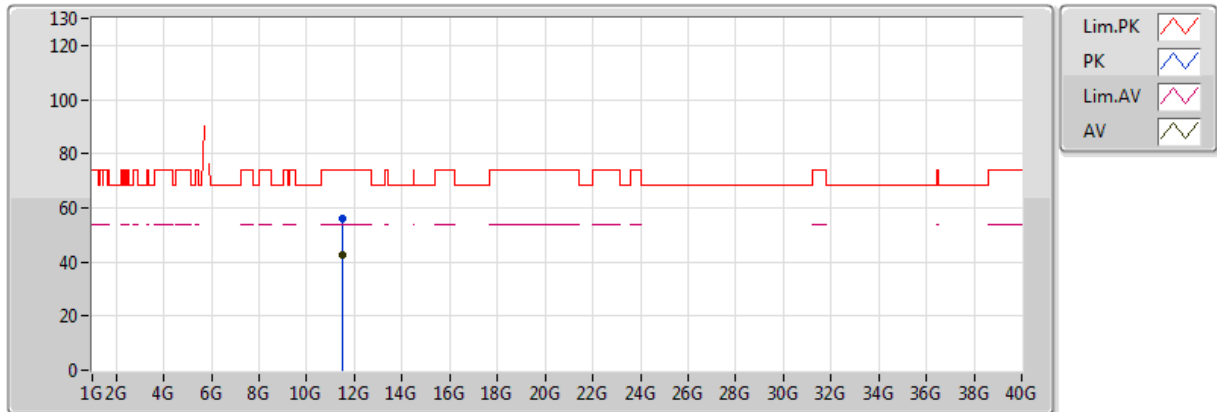


20171019
EUT_Z_2TX
Setting 25 (Max)
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.751G	103.52	Inf	-Inf	5.74	3	Horizontal	71	1.03					
PK	5.635G	58.80	68.20	-9.40	5.41	3	Horizontal	71	1.03					
PK	5.741G	113.81	Inf	-Inf	5.71	3	Horizontal	71	1.03					
PK	5.956G	58.17	68.20	-10.03	6.45	3	Horizontal	71	1.03					

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

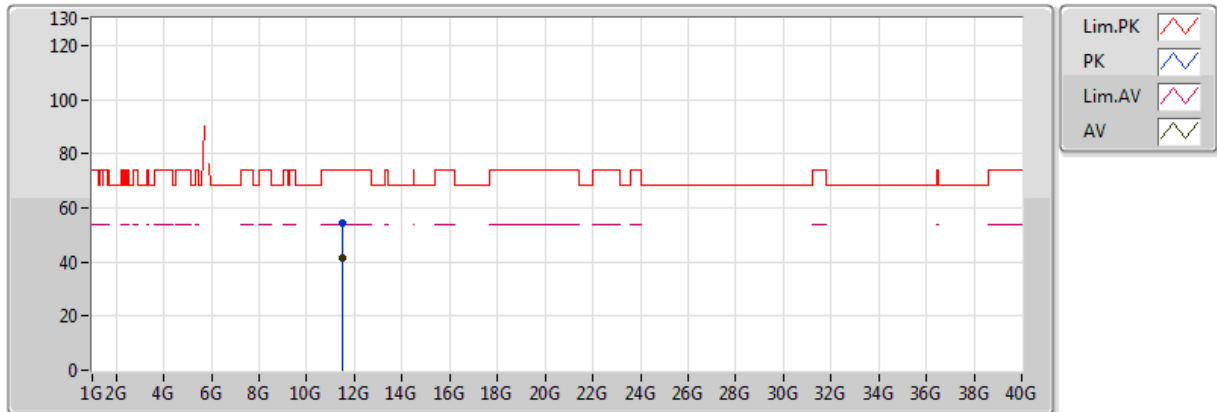


20171019
EUT Z_2TX
Setting 25 (Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.48994G	42.70	54.00	-11.30	12.31	3	Vertical	256	1.04					
PK	11.48514G	55.90	74.00	-18.10	12.31	3	Vertical	256	1.04					

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

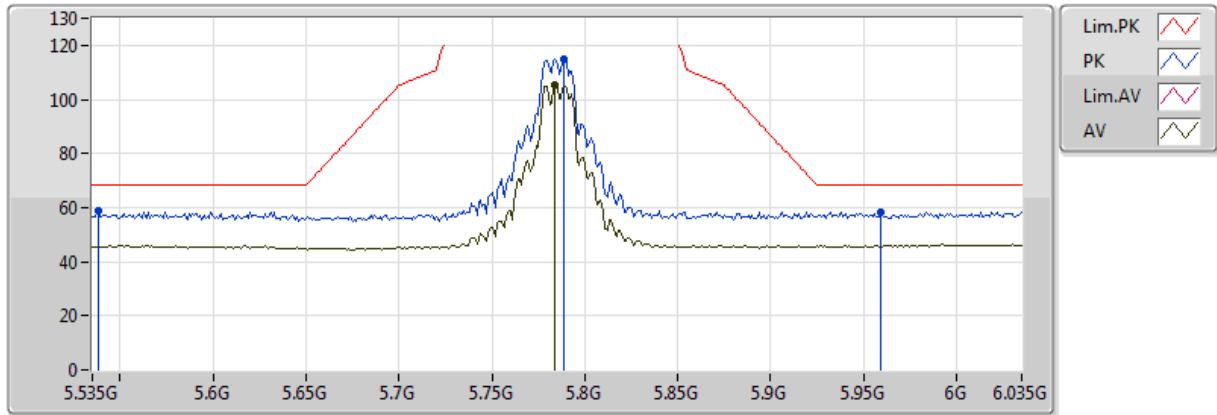


20171019
EUT Z_2TX
Setting 25 (Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.49006G	41.47	54.00	-12.53	12.31	3	Horizontal	87	1.07					
PK	11.48934G	54.30	74.00	-19.70	12.31	3	Horizontal	87	1.07					

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

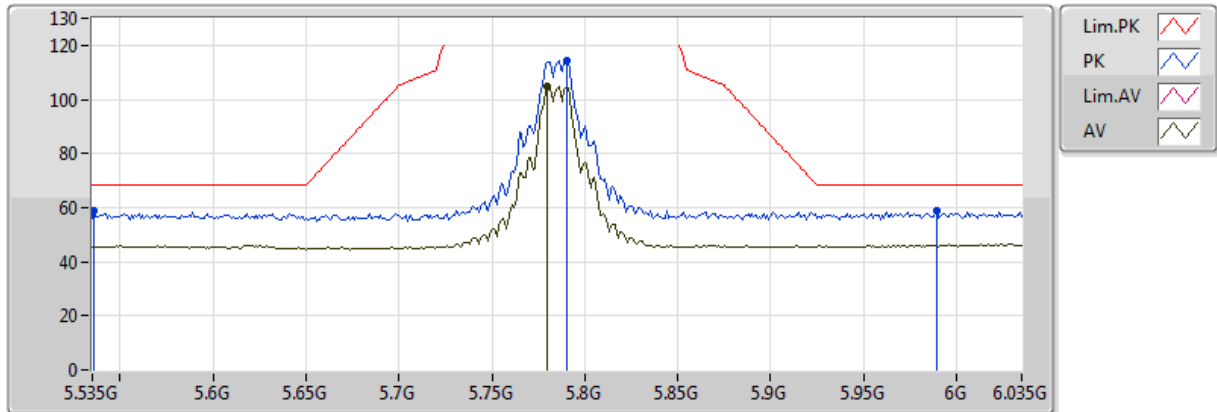


20171019
EUT_Z_2TX
Setting 25 (Max)
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.784G	105.22	Inf	-Inf	5.83	3	Vertical	70	1.01					
PK	5.538G	58.66	68.20	-9.54	5.06	3	Vertical	70	1.01					
PK	5.789G	115.13	Inf	-Inf	5.84	3	Vertical	70	1.01					
PK	5.959G	58.29	68.20	-9.91	6.46	3	Vertical	70	1.01					

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

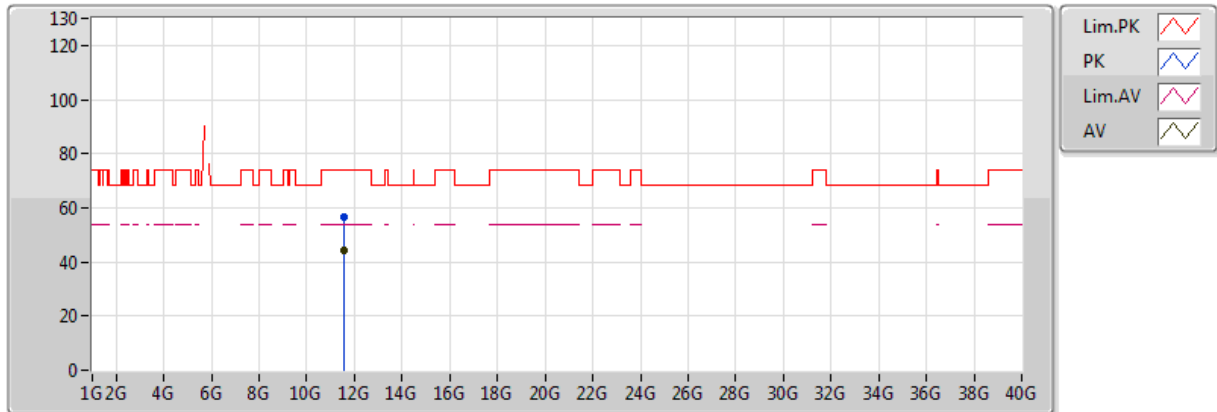


20171019
EUT_Z_2TX
Setting 25 (Max)
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.78G	104.68	Inf	-Inf	5.82	3	Horizontal	74	1.03					
PK	5.536G	58.60	68.20	-9.60	5.05	3	Horizontal	74	1.03					
PK	5.79G	114.45	Inf	-Inf	5.84	3	Horizontal	74	1.03					
PK	5.989G	58.65	68.20	-9.55	6.58	3	Horizontal	74	1.03					

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

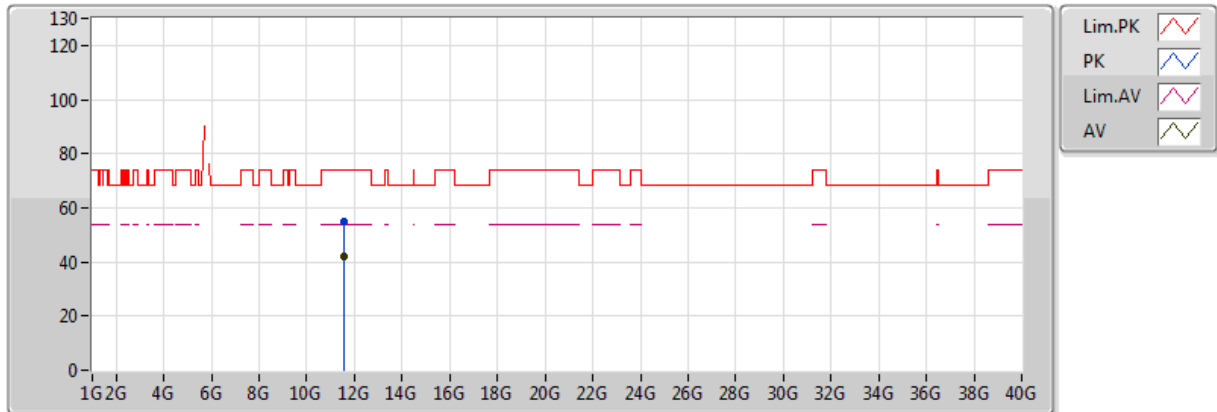


20171019
EUT Z_2TX
Setting 25 (Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.5682G	44.16	54.00	-9.84	12.29	3	Vertical	43	2.47					
PK	11.57258G	56.53	74.00	-17.47	12.29	3	Vertical	43	2.47					

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

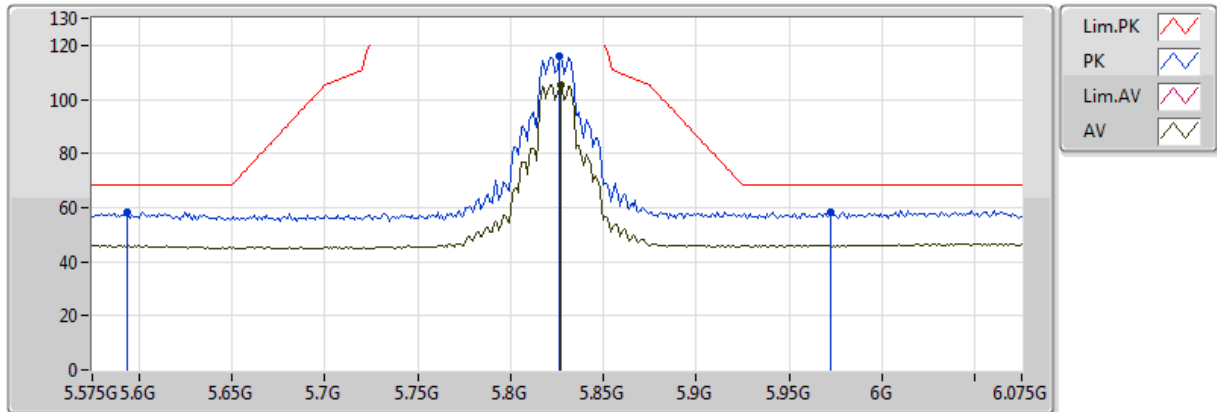


20171019
EUT Z_2TX
Setting 25 (Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.57012G	42.20	54.00	-11.80	12.29	3	Horizontal	71	1.13					
PK	11.56094G	55.04	74.00	-18.96	12.29	3	Horizontal	71	1.13					

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

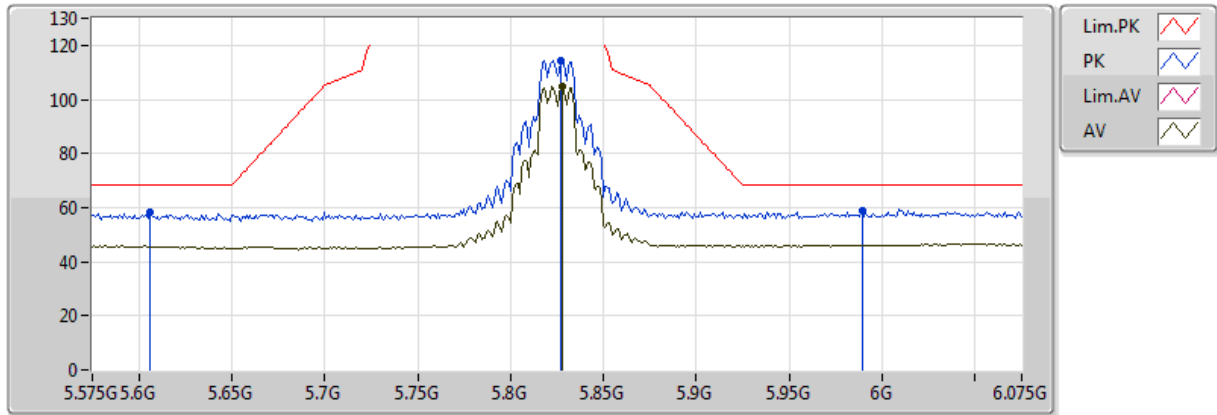


20171019
EUT_Z_2TX
Setting 25 (Max)
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.827G	105.46	Inf	-Inf	5.97	3	Vertical	66	1.02					
PK	5.594G	58.48	68.20	-9.72	5.29	3	Vertical	66	1.02					
PK	5.826G	115.74	Inf	-Inf	5.97	3	Vertical	66	1.02					
PK	5.972G	58.50	68.20	-9.70	6.51	3	Vertical	66	1.02					

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

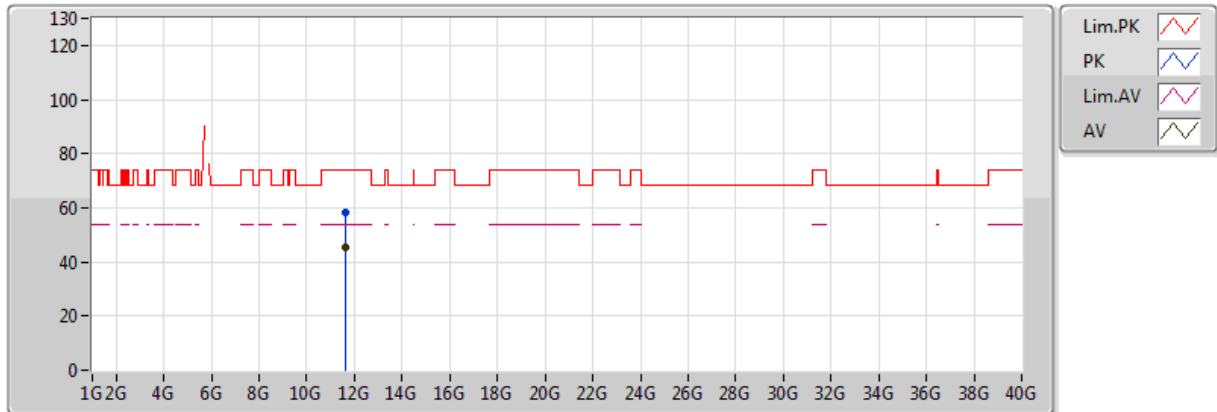


20171019
EUT_Z_2TX
Setting 25 (Max)
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.828G	104.60	Inf	-Inf	5.97	3	Horizontal	72	1.09					
PK	5.606G	58.03	68.20	-10.17	5.33	3	Horizontal	72	1.09					
PK	5.827G	114.56	Inf	-Inf	5.97	3	Horizontal	72	1.09					
PK	5.989G	58.68	68.20	-9.52	6.58	3	Horizontal	72	1.09					

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

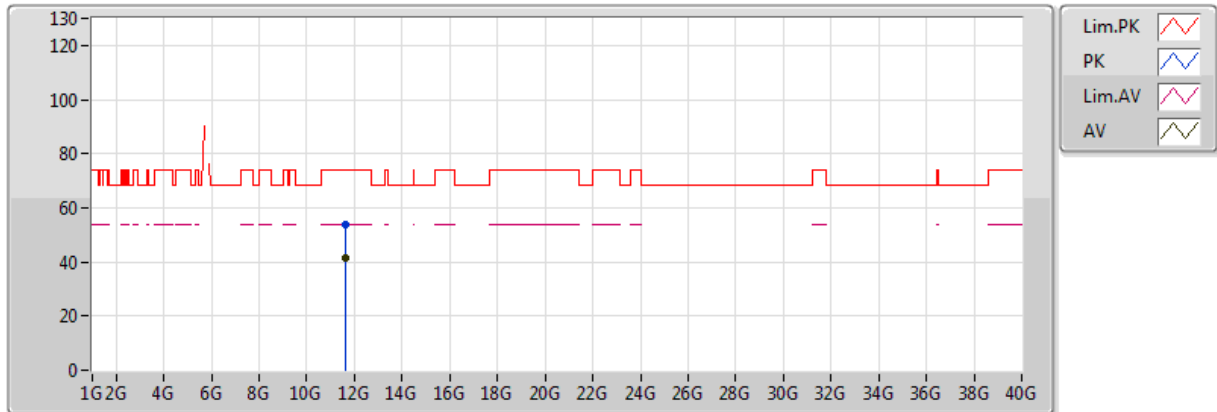


20171019
EUT Z_2TX
Setting 25 (Max)
01-J-6
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.64916G	45.25	54.00	-8.75	12.28	3	Vertical	24	2.42					
PK	11.65366G	58.14	74.00	-15.86	12.28	3	Vertical	24	2.42					

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

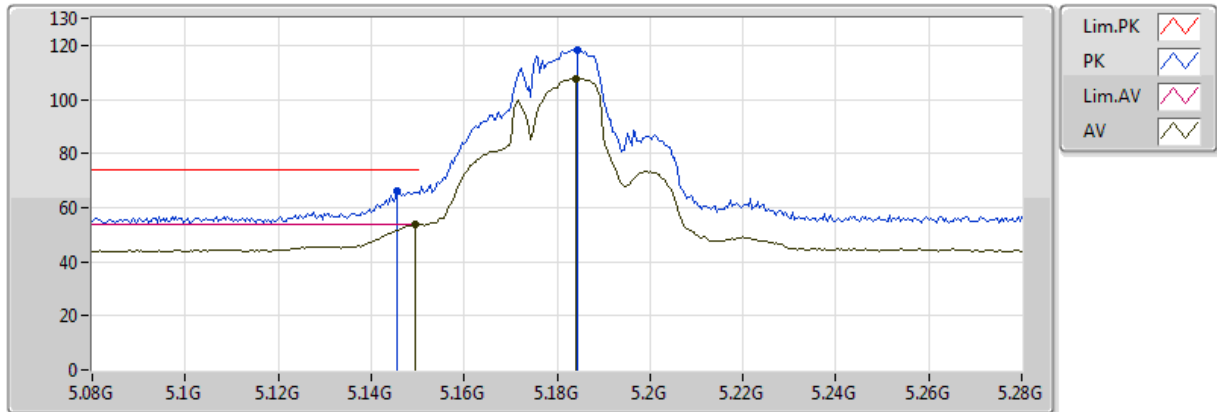


20171019
EUT Z_2TX
Setting 25 (Max)
01-J-6
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.64976G	41.45	54.00	-12.55	12.28	3	Horizontal	75	1.43					
PK	11.64526G	53.70	74.00	-20.30	12.28	3	Horizontal	75	1.43					

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

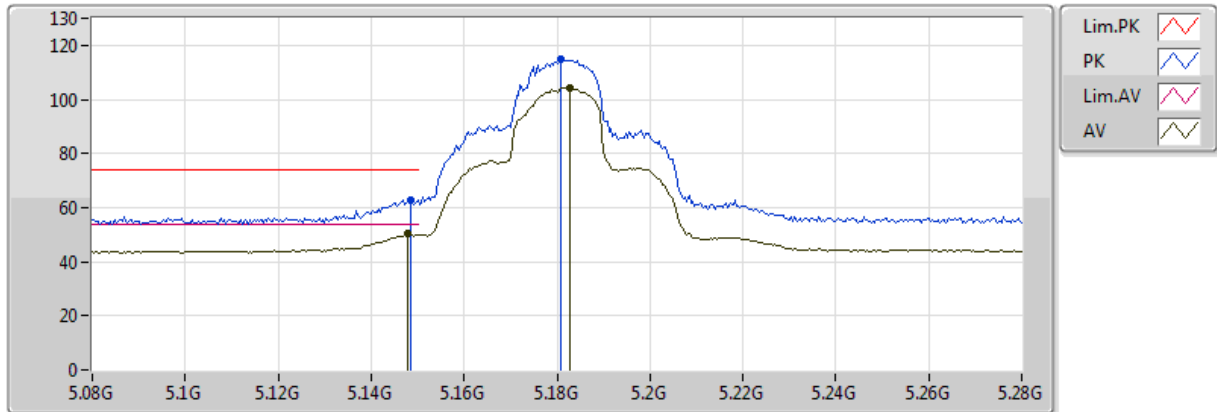


20171019
EUT_Z_2TX
Setting 23
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1496G	53.88	54.00	-0.12	4.17	3	Vertical	56	2.72					
AV	5.184G	107.81	Inf	-Inf	4.24	3	Vertical	56	2.72					
PK	5.1456G	66.24	74.00	-7.76	4.16	3	Vertical	56	2.72					
PK	5.1844G	118.10	Inf	-Inf	4.25	3	Vertical	56	2.72					

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

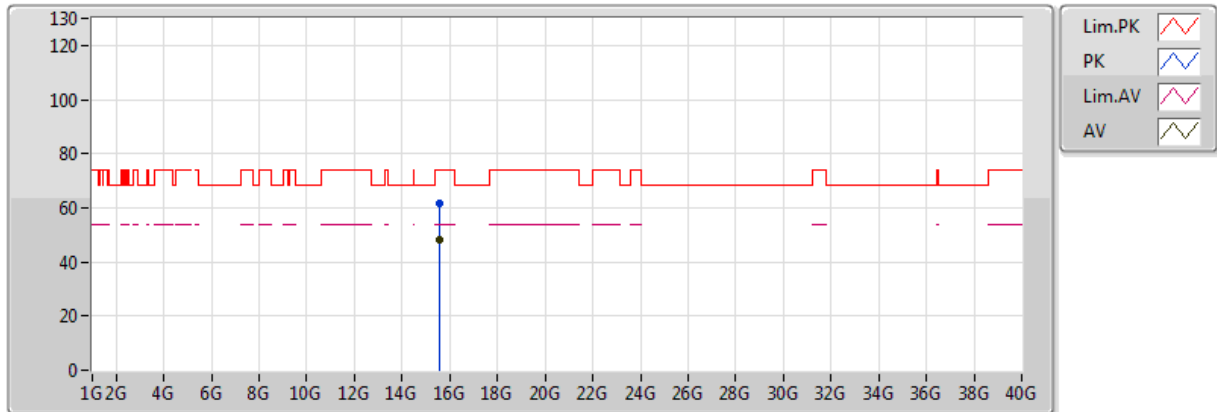


20171019
EUT_Z_2TX
Setting 23
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.148G	50.30	54.00	-3.70	4.17	3	Horizontal	74	1.09					
AV	5.1828G	104.18	Inf	-Inf	4.24	3	Horizontal	74	1.09					
PK	5.1484G	62.88	74.00	-11.12	4.17	3	Horizontal	74	1.09					
PK	5.1808G	114.86	Inf	-Inf	4.24	3	Horizontal	74	1.09					

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

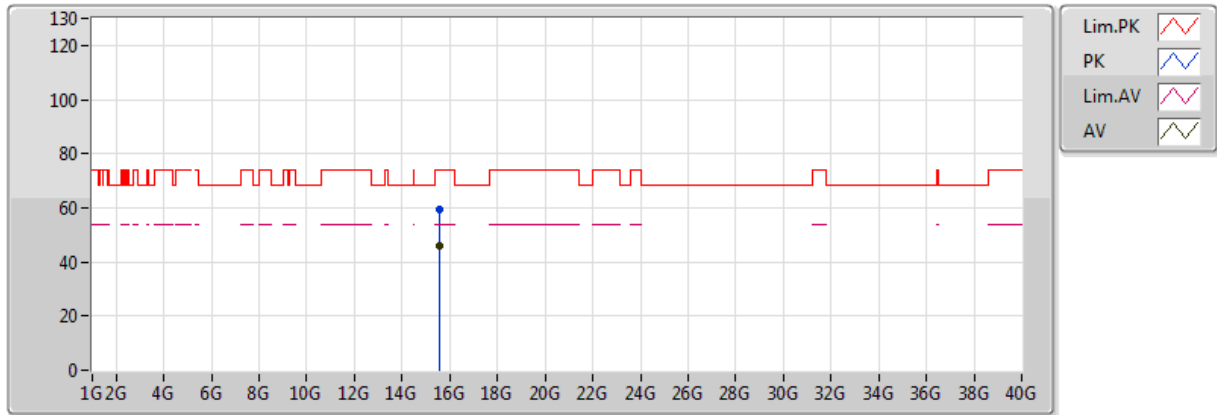


20171019
EUT_Z_2TX
Setting 23
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.54036G	48.10	54.00	-5.90	13.53	3	Vertical	186	2.96					
PK	15.54204G	61.42	74.00	-12.58	13.53	3	Vertical	186	2.96					

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

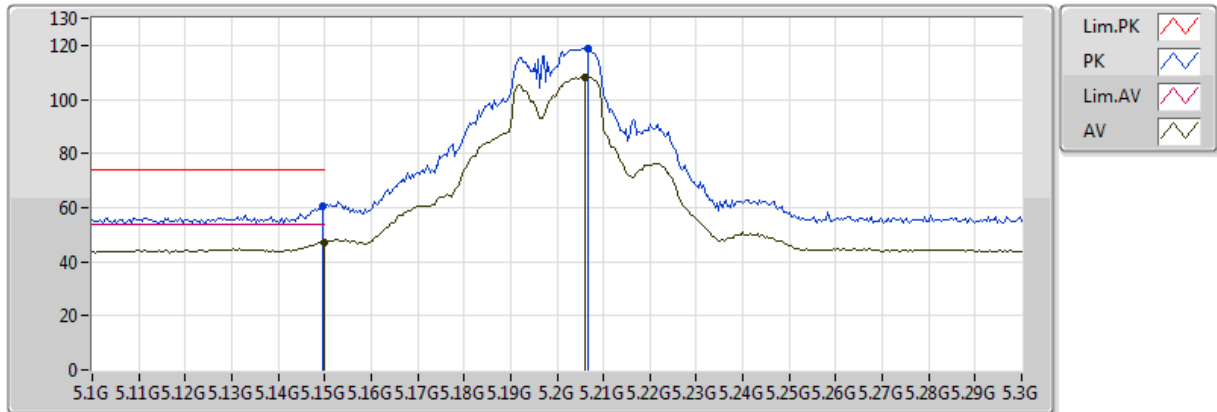


20171019
EUT_Z_2TX
Setting 23
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.5406G	46.09	54.00	-7.91	13.53	3	Horizontal	298	2.94					
PK	15.54534G	59.48	74.00	-14.52	13.53	3	Horizontal	298	2.94					

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

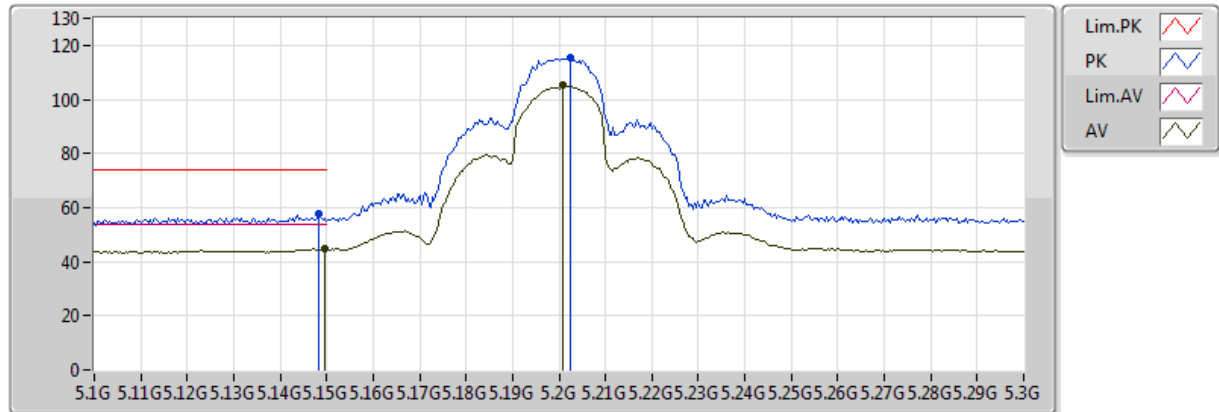


20171019
EUT_Z_2TX
Setting 25(Max)
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.149995G	47.22	54.00	-6.78	4.17	3	Vertical	49	2.55					
AV	5.206G	108.35	Inf	-Inf	4.29	3	Vertical	49	2.55					
PK	5.1496G	60.54	74.00	-13.46	4.17	3	Vertical	49	2.55					
PK	5.2068G	118.76	Inf	-Inf	4.29	3	Vertical	49	2.55					

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

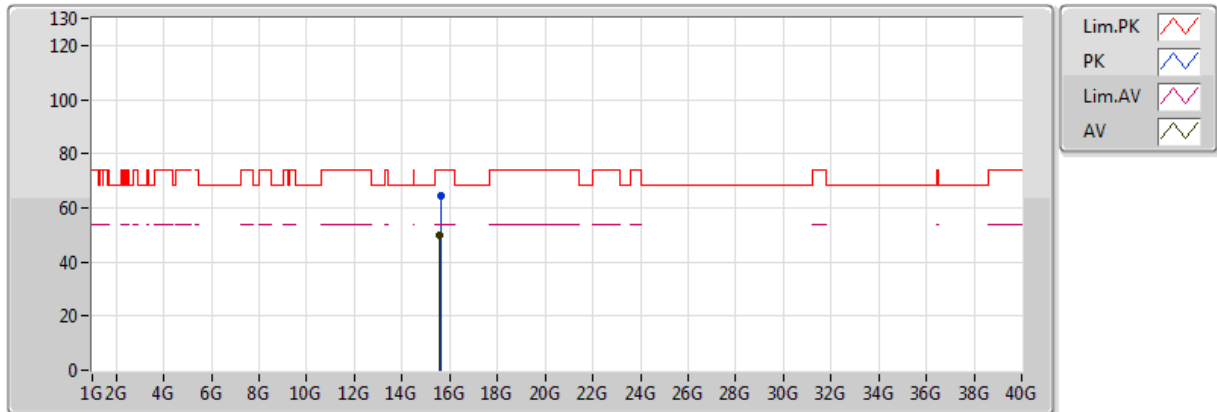


20171019
EUT_Z_2TX
Setting 25(Max)
01-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1496G	44.68	54.00	-9.32	4.17	3	Horizontal	76	1.03					
AV	5.2008G	105.15	Inf	-Inf	4.28	3	Horizontal	76	1.03					
PK	5.1484G	57.96	74.00	-16.04	4.17	3	Horizontal	76	1.03					
PK	5.2024G	115.26	Inf	-Inf	4.28	3	Horizontal	76	1.03					

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

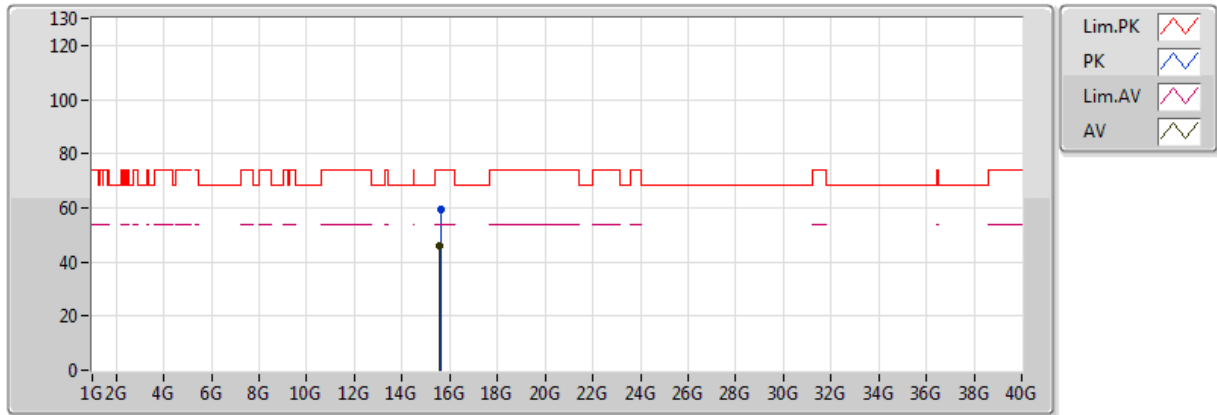


20171019
EUT Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.597G	50.07	54.00	-3.93	13.47	3	Vertical	210	2.68					
PK	15.60552G	64.38	74.00	-9.62	13.46	3	Vertical	210	2.68					

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

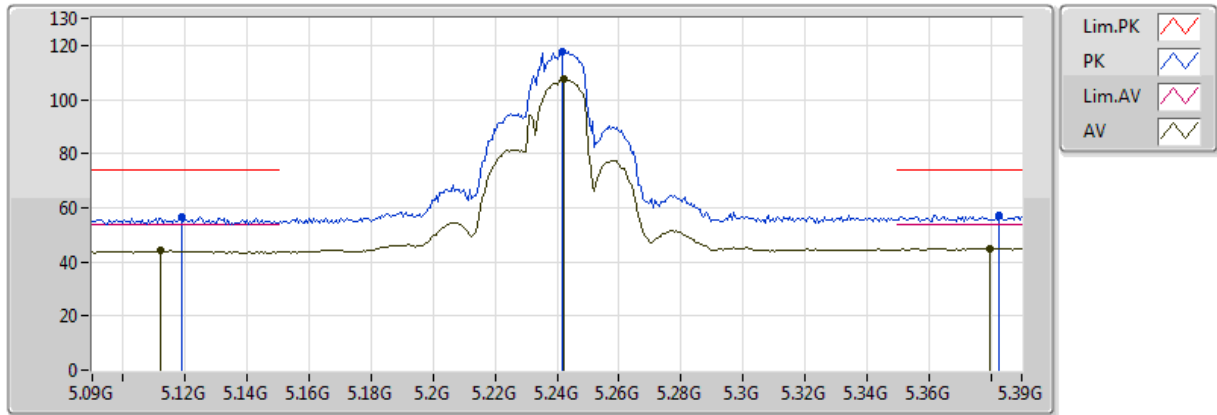


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	15.59994G	45.95	54.00	-8.05	13.46	3	Horizontal	309	2.54					
PK	15.60312G	59.37	74.00	-14.63	13.46	3	Horizontal	309	2.54					

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

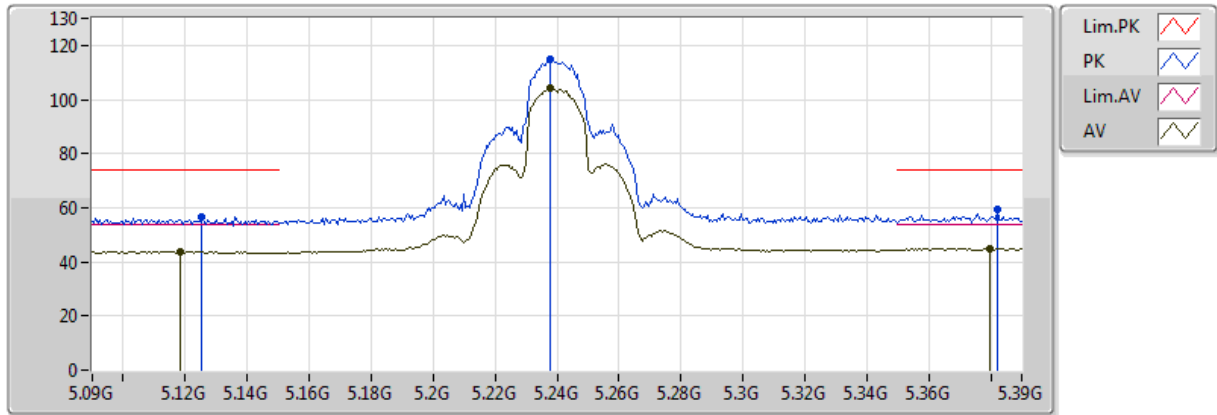


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1122G	44.04	54.00	-9.96	4.09	3	Vertical	59	2.95					
AV	5.2424G	107.42	Inf	-Inf	4.35	3	Vertical	59	2.95					
AV	5.3798G	45.04	54.00	-8.96	4.56	3	Vertical	59	2.95					
PK	5.1188G	56.62	74.00	-17.38	4.10	3	Vertical	59	2.95					
PK	5.2418G	117.93	Inf	-Inf	4.35	3	Vertical	59	2.95					
PK	5.3828G	57.36	74.00	-16.64	4.57	3	Vertical	59	2.95					

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

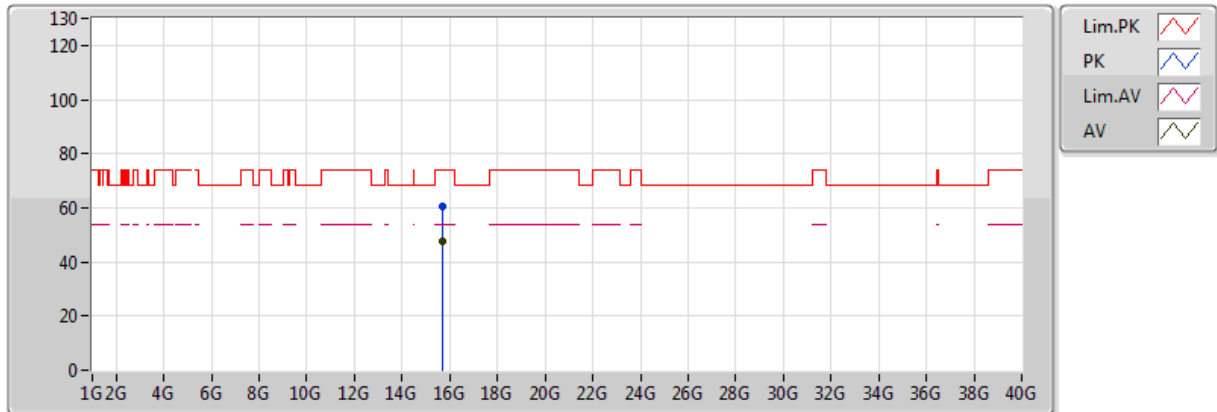


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1182G	43.78	54.00	-10.22	4.10	3	Horizontal	79	1.08					
AV	5.2376G	104.16	Inf	-Inf	4.34	3	Horizontal	79	1.08					
AV	5.3798G	45.03	54.00	-8.97	4.56	3	Horizontal	79	1.08					
PK	5.1254G	56.47	74.00	-17.53	4.12	3	Horizontal	79	1.08					
PK	5.2376G	114.78	Inf	-Inf	4.34	3	Horizontal	79	1.08					
PK	5.3822G	59.63	74.00	-14.37	4.57	3	Horizontal	79	1.08					

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

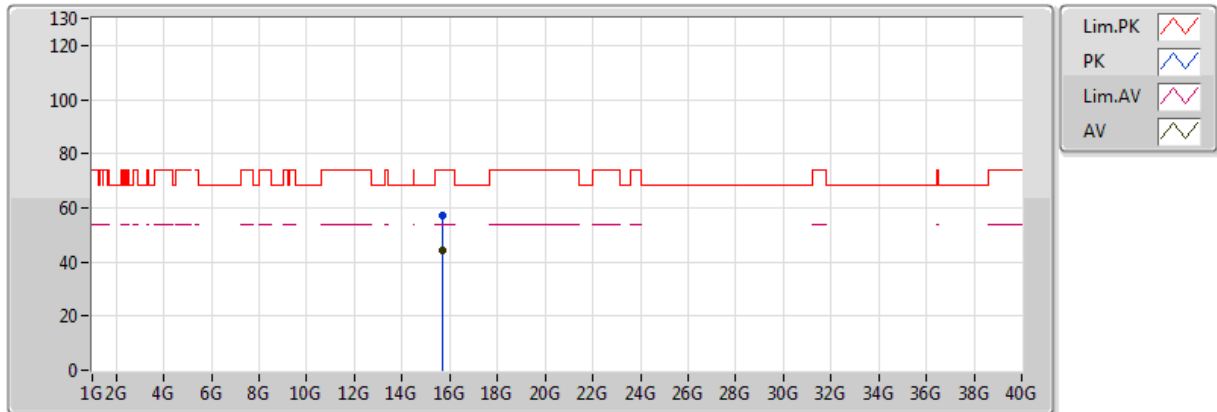


20171019
EUT Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	15.71982G	47.52	54.00	-6.48	13.33	3	Vertical	207	2.82					
PK	15.71214G	60.71	74.00	-13.29	13.33	3	Vertical	207	2.82					

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

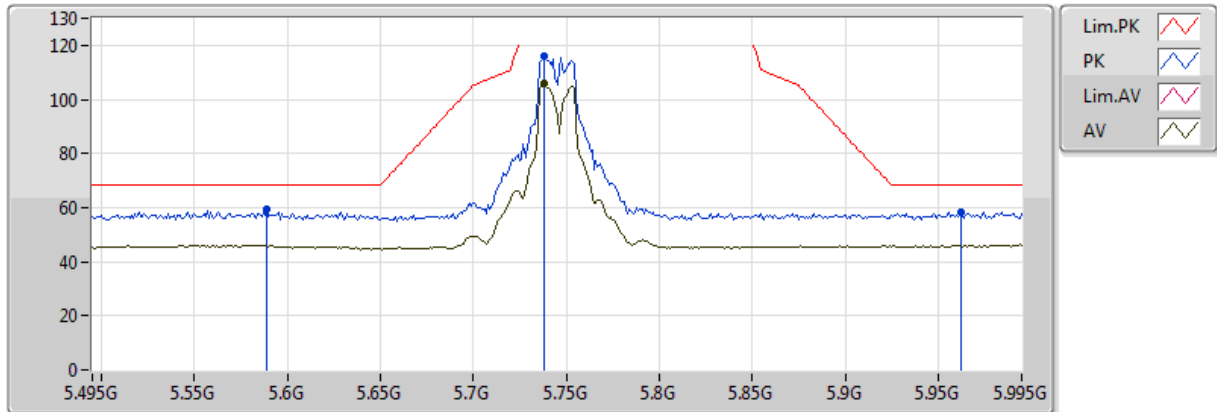


20171019
EUT Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.72588G	44.14	54.00	-9.86	13.32	3	Horizontal	320	2.48					
PK	15.7071G	57.12	74.00	-16.88	13.34	3	Horizontal	320	2.48					

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

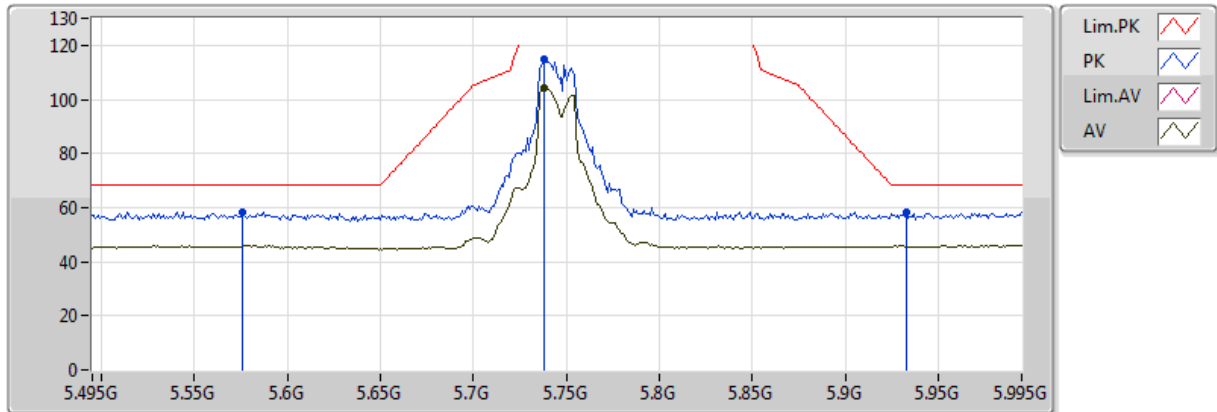


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.738G	105.64	Inf	-Inf	5.70	3	Vertical	65	2.60					
PK	5.589G	59.30	68.20	-8.90	5.26	3	Vertical	65	2.60					
PK	5.738G	115.83	Inf	-Inf	5.70	3	Vertical	65	2.60					
PK	5.962G	58.51	68.20	-9.69	6.48	3	Vertical	65	2.60					

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

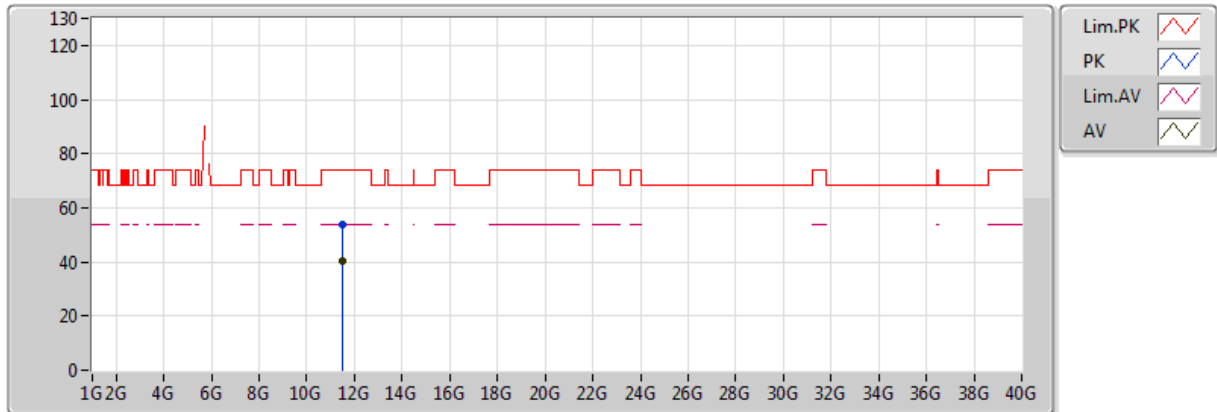


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.738G	103.99	Inf	-Inf	5.70	3	Horizontal	73	1.08					
PK	5.576G	58.33	68.20	-9.87	5.21	3	Horizontal	73	1.08					
PK	5.738G	115.04	Inf	-Inf	5.70	3	Horizontal	73	1.08					
PK	5.933G	58.16	68.20	-10.04	6.37	3	Horizontal	73	1.08					

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

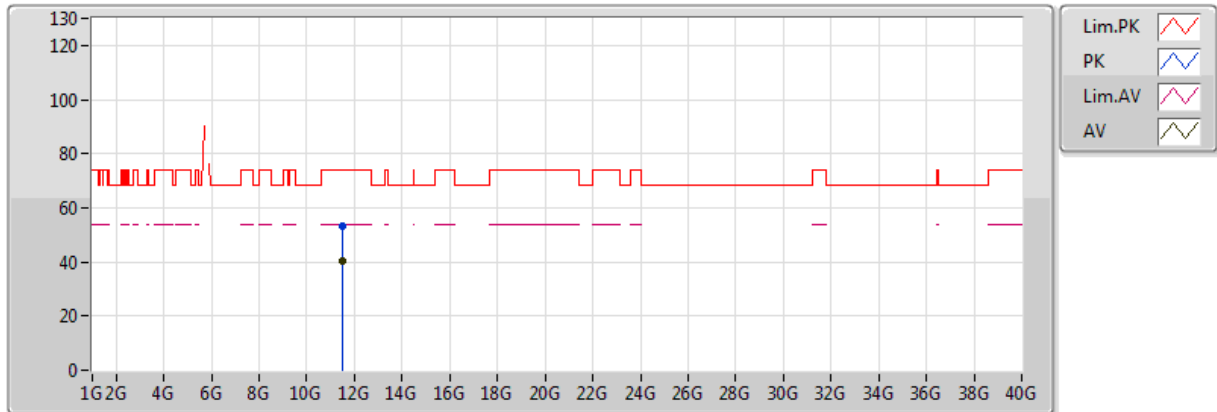


20171019
EUT Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	11.49876G	40.53	54.00	-13.47	12.31	3	Vertical	356	2.45					
PK	11.49744G	53.53	74.00	-20.47	12.31	3	Vertical	356	2.45					

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

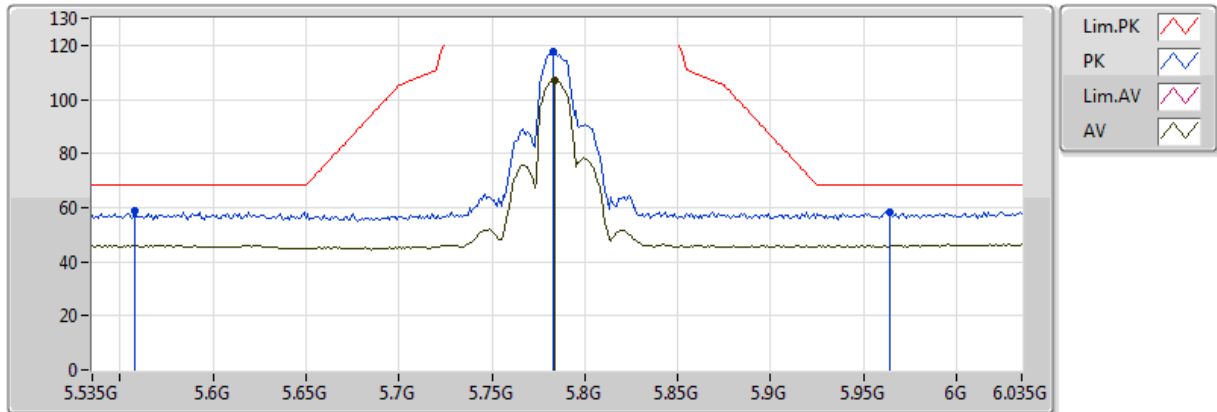


20171019
EUT Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	11.50248G	40.25	54.00	-13.75	12.30	3	Horizontal	360	1.50					
PK	11.48988G	53.37	74.00	-20.63	12.31	3	Horizontal	360	1.50					

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

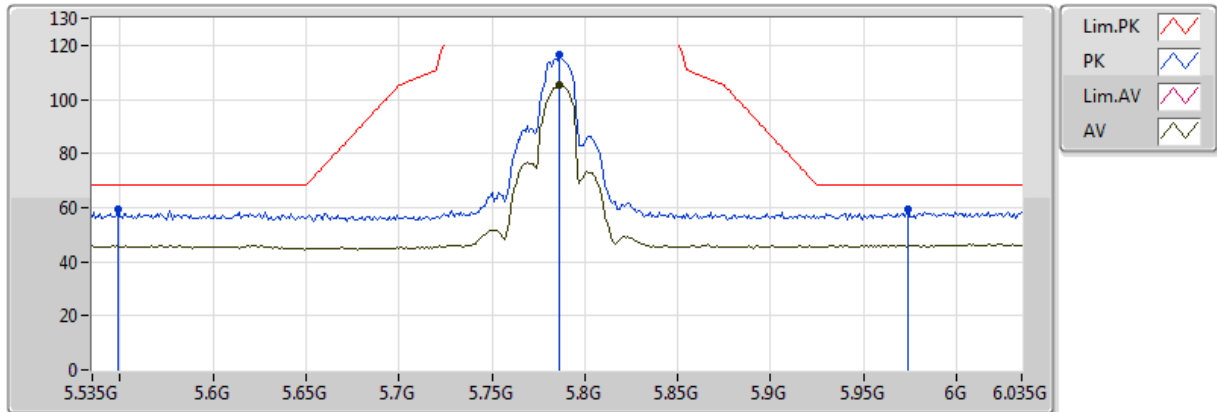


20171019
EUT_Z_2TX
Setting 25 (Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.784G	107.26	Inf	-Inf	5.83	3	Vertical	68	2.58					
PK	5.558G	58.90	68.20	-9.30	5.14	3	Vertical	68	2.58					
PK	5.783G	117.69	Inf	-Inf	5.82	3	Vertical	68	2.58					
PK	5.964G	58.28	68.20	-9.92	6.48	3	Vertical	68	2.58					

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

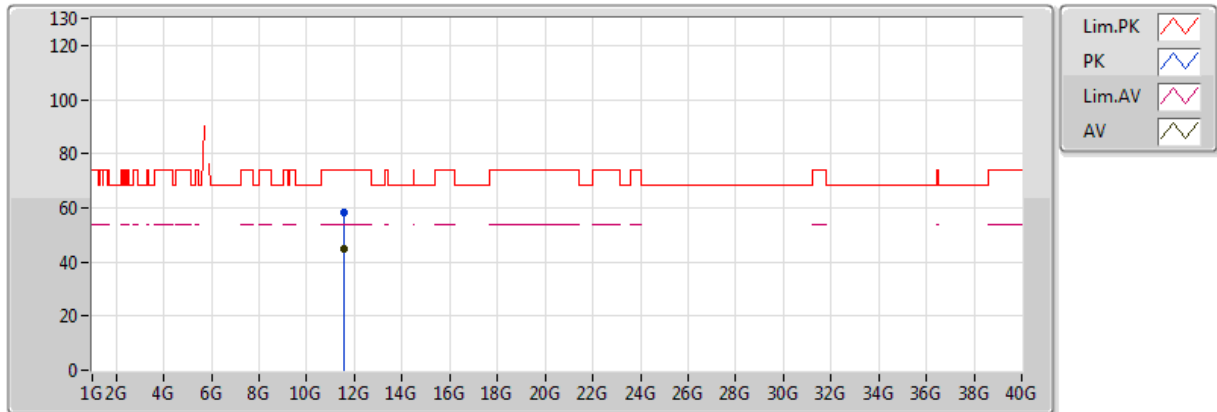


20171019
EUT_Z_2TX
Setting 25 (Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.786G	105.46	Inf	-Inf	5.83	3	Horizontal	72	1.03					
PK	5.549G	59.50	68.20	-8.70	5.10	3	Horizontal	72	1.03					
PK	5.786G	116.47	Inf	-Inf	5.83	3	Horizontal	72	1.03					
PK	5.974G	59.28	68.20	-8.92	6.52	3	Horizontal	72	1.03					

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

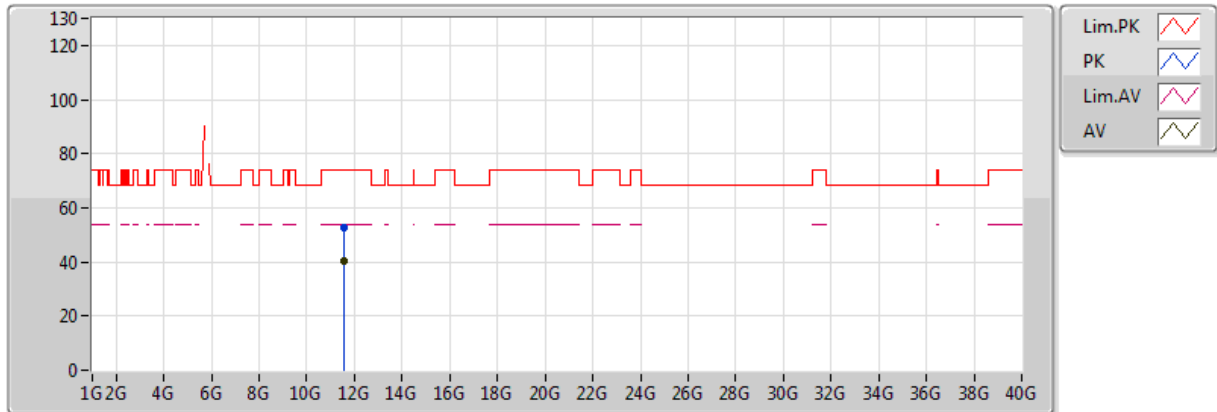


20171019
EUT Z_2TX
Setting 25 (Max)
01-N-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	11.5727G	45.02	54.00	-8.98	12.29	3	Vertical	220	2.21					
PK	11.56964G	58.06	74.00	-15.94	12.29	3	Vertical	220	2.21					

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

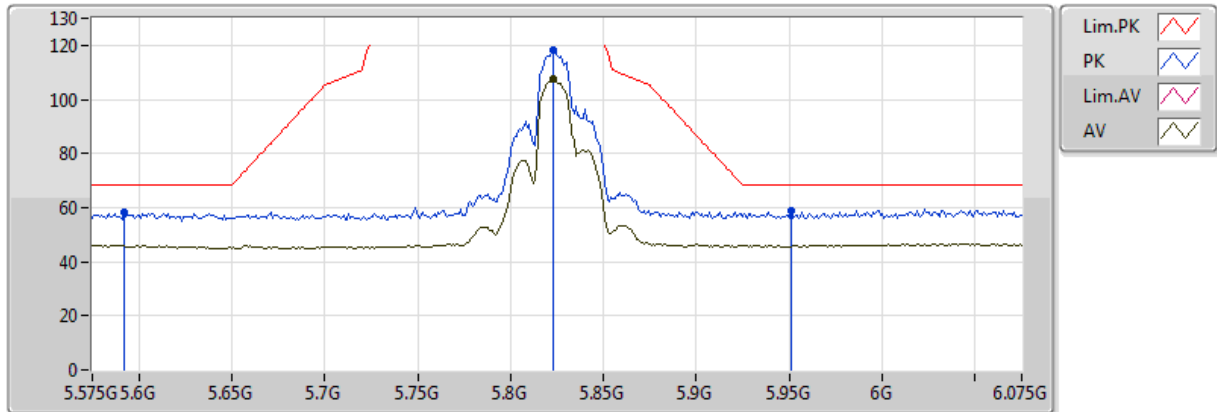


20171019
EUT_Z_2TX
Setting 25 (Max)
01-N-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	11.56988G	40.35	54.00	-13.65	12.29	3	Horizontal	74	1.46					
PK	11.57126G	52.94	74.00	-21.06	12.29	3	Horizontal	74	1.46					

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

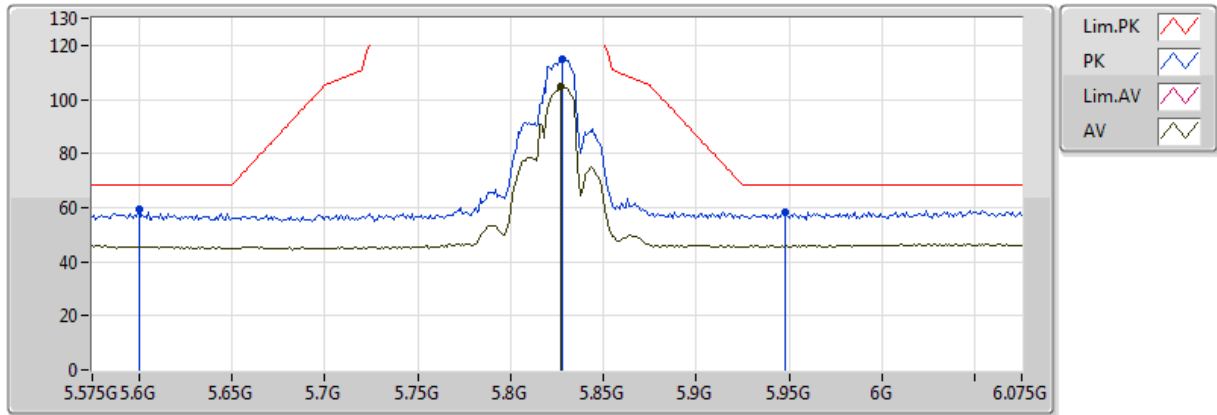


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.823G	107.33	Inf	-Inf	5.96	3	Vertical	68	2.53					
PK	5.592G	58.33	68.20	-9.87	5.28	3	Vertical	68	2.53					
PK	5.823G	118.20	Inf	-Inf	5.96	3	Vertical	68	2.53					
PK	5.951G	59.03	68.20	-9.17	6.43	3	Vertical	68	2.53					

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

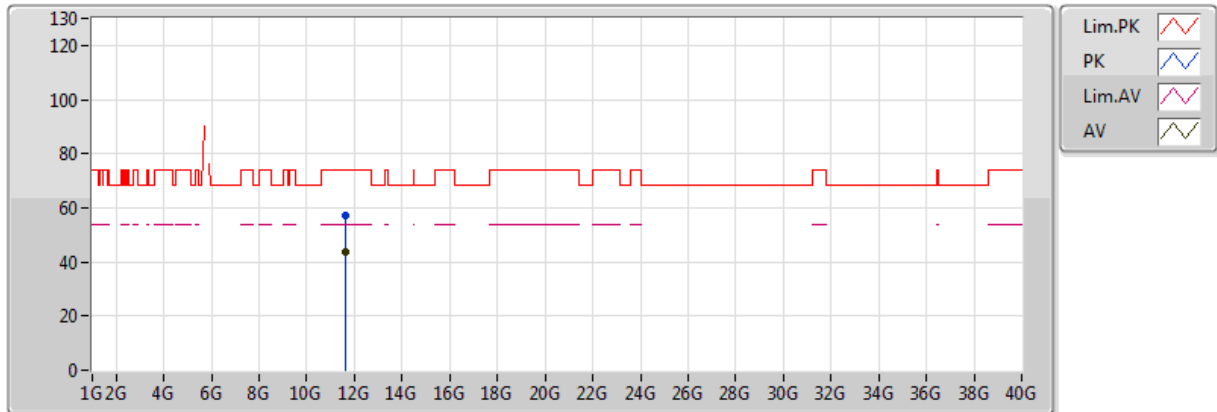


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.827G	104.64	Inf	-Inf	5.97	3	Horizontal	66	1.04					
PK	5.6G	59.25	68.20	-8.95	5.31	3	Horizontal	66	1.04					
PK	5.828G	115.10	Inf	-Inf	5.97	3	Horizontal	66	1.04					
PK	5.948G	58.44	68.20	-9.76	6.42	3	Horizontal	66	1.04					

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

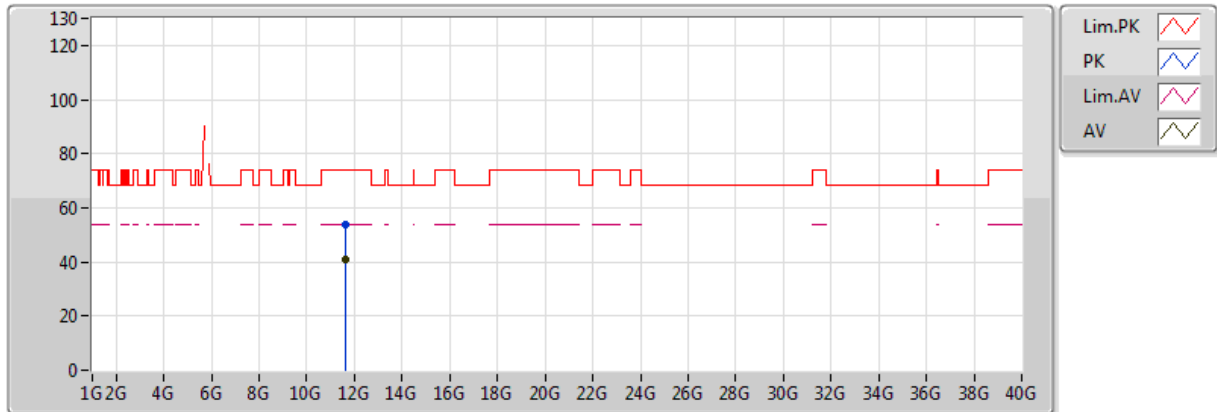


20171019
EUT Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	11.6515G	43.79	54.00	-10.21	12.28	3	Vertical	20	2.67					
PK	11.64994G	57.31	74.00	-16.69	12.28	3	Vertical	20	2.67					

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

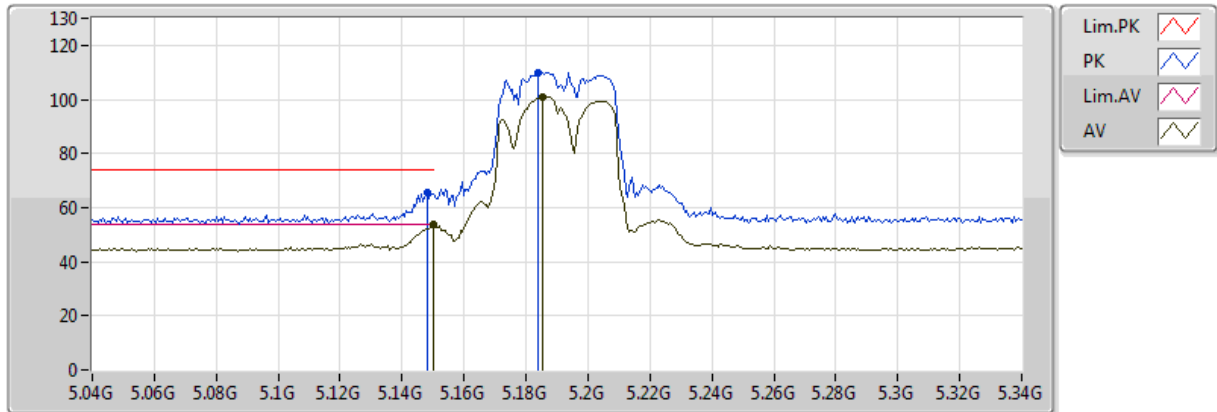


20171019
EUT Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	11.650001G	40.76	54.00	-13.24	12.28	3	Horizontal	92	1.05					
PK	11.649998G	53.83	74.00	-20.17	12.28	3	Horizontal	92	1.05					

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

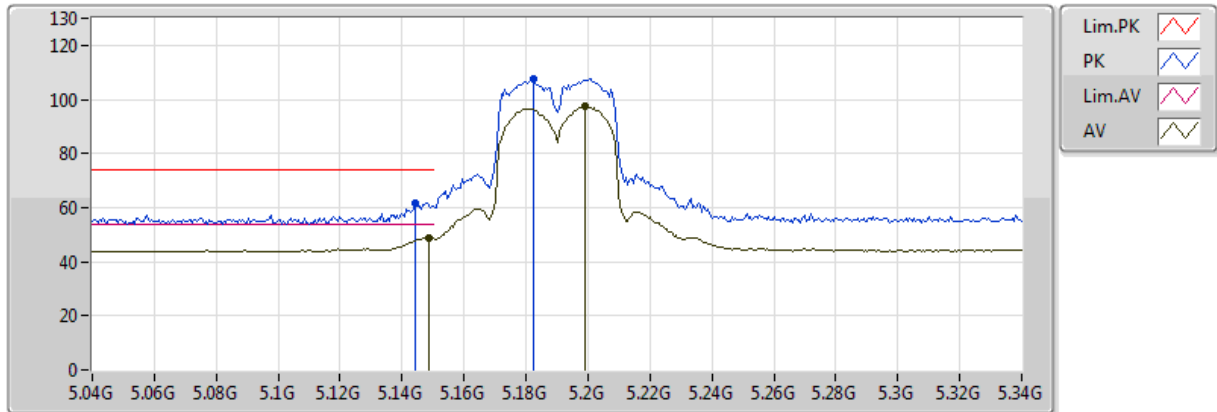


20171019
EUT_Z_2TX
Setting 17.5
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.149995G	53.88	54.00	-0.12	4.17	3	Vertical	52	2.57					
AV	5.1852G	100.84	Inf	-Inf	4.25	3	Vertical	52	2.57					
PK	5.148G	65.39	74.00	-8.61	4.17	3	Vertical	52	2.57					
PK	5.184G	109.98	Inf	-Inf	4.24	3	Vertical	52	2.57					

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

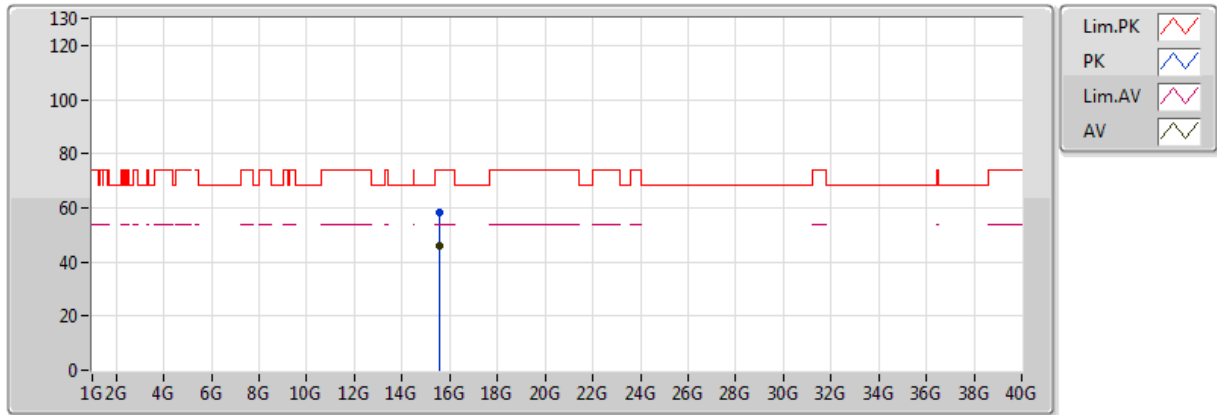


20171019
EUT_Z_2TX
Setting 17.5
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1486G	48.85	54.00	-5.15	4.17	3	Horizontal	79	1.04					
AV	5.199G	97.34	Inf	-Inf	4.28	3	Horizontal	79	1.04					
PK	5.1444G	61.75	74.00	-12.25	4.16	3	Horizontal	79	1.04					
PK	5.1822G	107.72	Inf	-Inf	4.24	3	Horizontal	79	1.04					

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

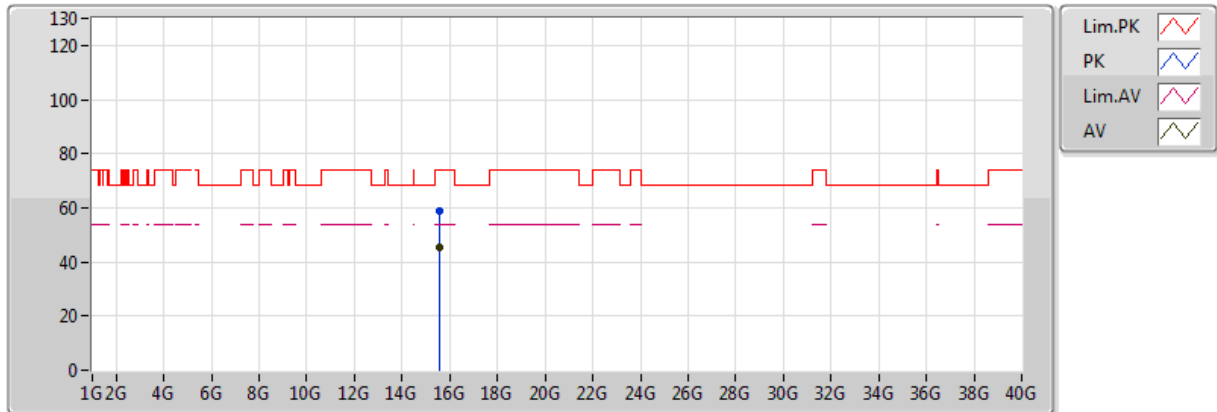


20171019
EUT_Z_2TX
Setting 17.5
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.56196G	46.07	54.00	-7.93	13.51	3	Vertical	171	2.41					
PK	15.55692G	58.32	74.00	-15.68	13.51	3	Vertical	171	2.41					

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

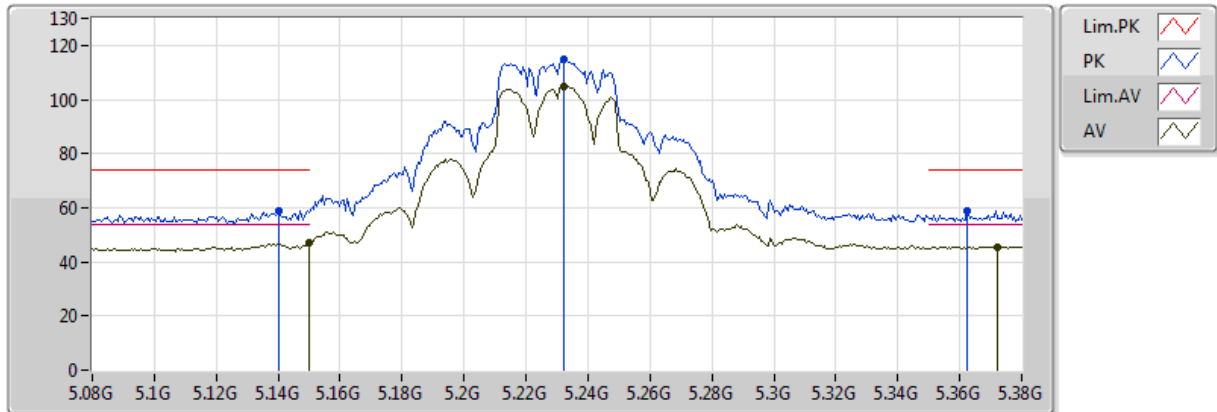


20171019
EUT_Z_2TX
Setting 17.5
01-N-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	15.56268G	45.66	54.00	-8.34	13.51	3	Horizontal	60	1.97					
PK	15.5763G	58.76	74.00	-15.24	13.49	3	Horizontal	60	1.97					

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

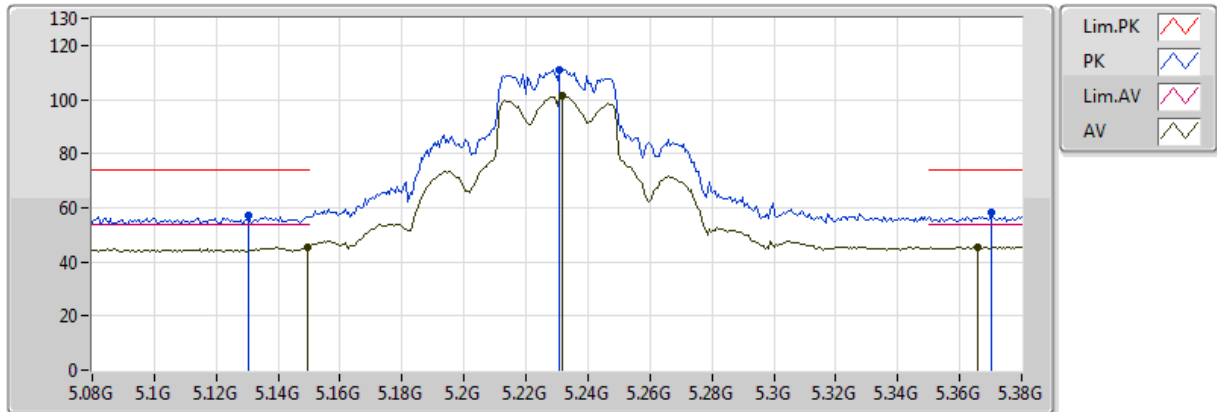


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.149995G	46.98	54.00	-7.02	4.17	3	Vertical	58	2.67					
AV	5.2324G	104.86	Inf	-Inf	4.34	3	Vertical	58	2.67					
AV	5.3722G	45.61	54.00	-8.39	4.55	3	Vertical	58	2.67					
PK	5.14G	58.93	74.00	-15.07	4.15	3	Vertical	58	2.67					
PK	5.2324G	115.11	Inf	-Inf	4.34	3	Vertical	58	2.67					
PK	5.3626G	58.61	74.00	-15.39	4.54	3	Vertical	58	2.67					

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

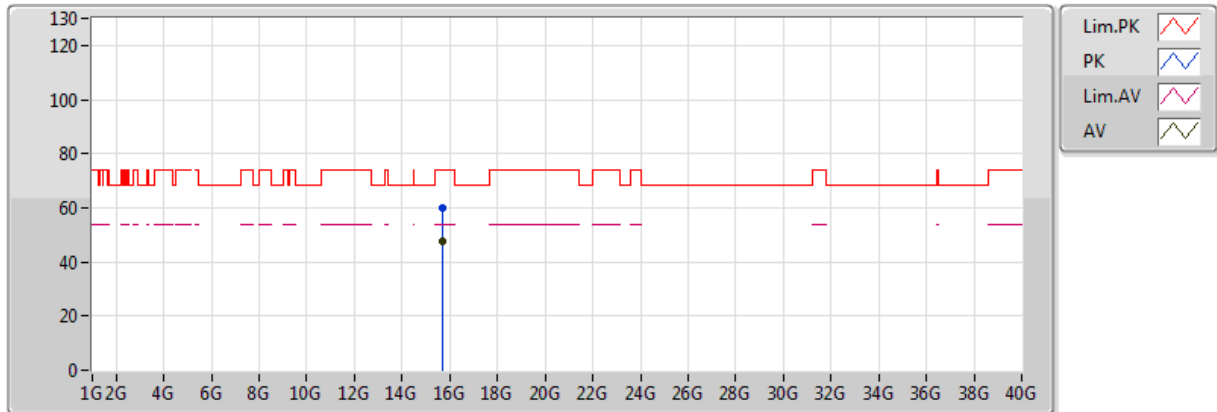


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1496G	45.52	54.00	-8.48	4.17	3	Horizontal	74	1.01					
AV	5.2318G	101.61	Inf	-Inf	4.33	3	Horizontal	74	1.01					
AV	5.3656G	45.66	54.00	-8.34	4.54	3	Horizontal	74	1.01					
PK	5.1304G	57.00	74.00	-17.00	4.13	3	Horizontal	74	1.01					
PK	5.2306G	111.02	Inf	-Inf	4.33	3	Horizontal	74	1.01					
PK	5.3704G	58.09	74.00	-15.91	4.55	3	Horizontal	74	1.01					

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

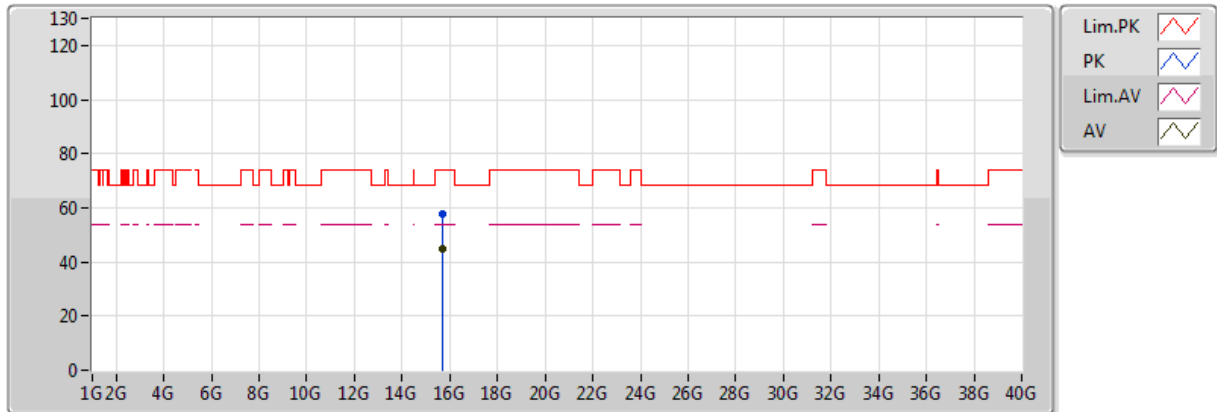


20171019
EUT Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.68316G	47.74	54.00	-6.26	13.37	3	Vertical	10	1.16					
PK	15.69642G	60.12	74.00	-13.88	13.35	3	Vertical	10	1.16					

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

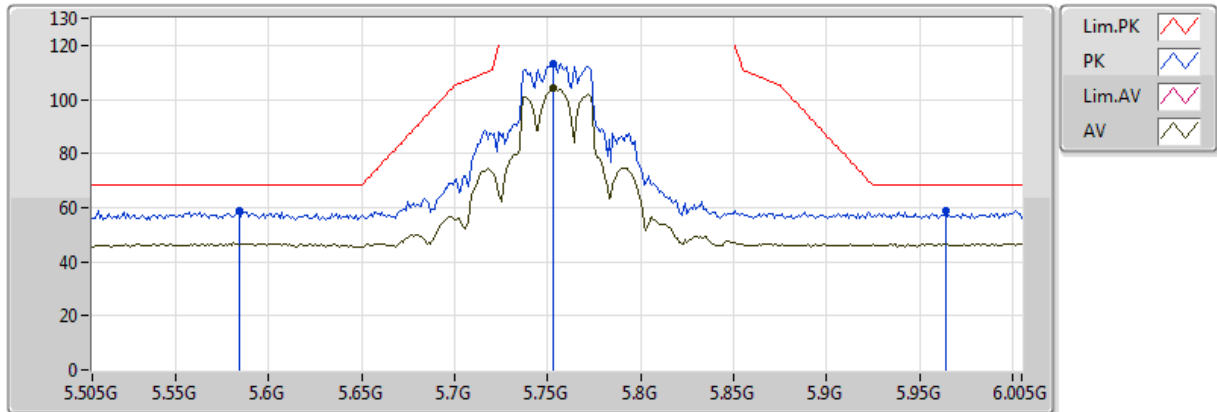


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.68934G	44.92	54.00	-9.08	13.36	3	Horizontal	359	1.76					
PK	15.6909G	57.56	74.00	-16.44	13.36	3	Horizontal	359	1.76					

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

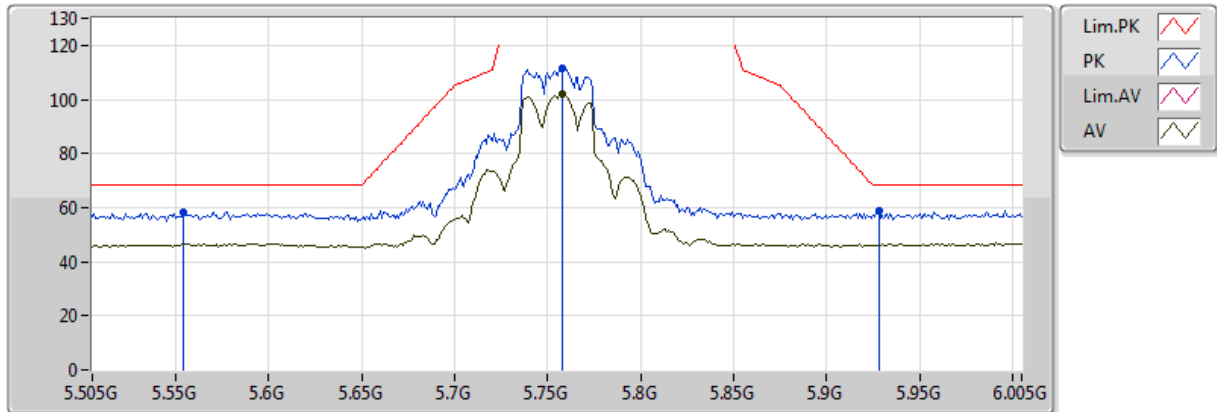


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.753G	104.29	Inf	-Inf	5.74	3	Vertical	68	2.60					
PK	5.584G	58.66	68.20	-9.54	5.24	3	Vertical	68	2.60					
PK	5.753G	113.30	Inf	-Inf	5.74	3	Vertical	68	2.60					
PK	5.964G	58.71	68.20	-9.49	6.48	3	Vertical	68	2.60					

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

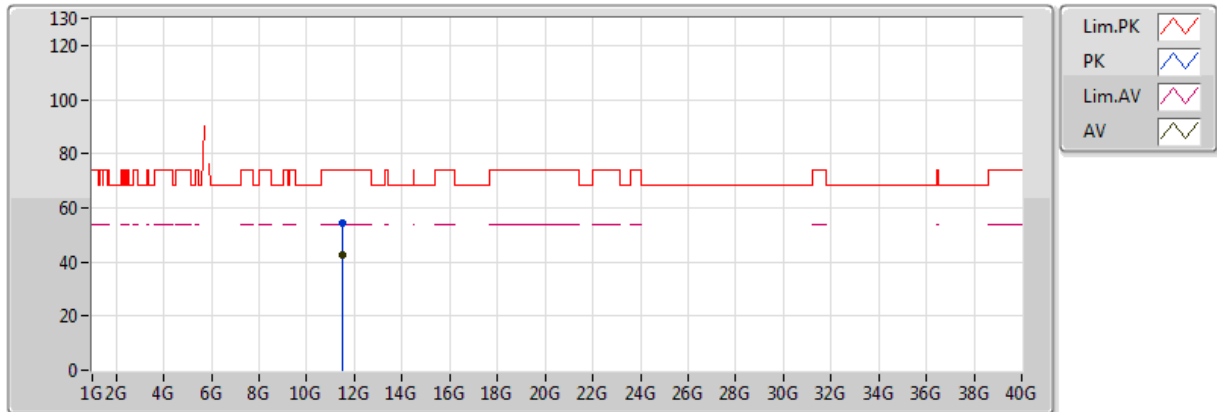


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.758G	102.26	Inf	-Inf	5.76	3	Horizontal	73	1.07					
PK	5.554G	58.26	68.20	-9.94	5.12	3	Horizontal	73	1.07					
PK	5.758G	111.46	Inf	-Inf	5.76	3	Horizontal	73	1.07					
PK	5.928G	58.66	68.20	-9.54	6.35	3	Horizontal	73	1.07					

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

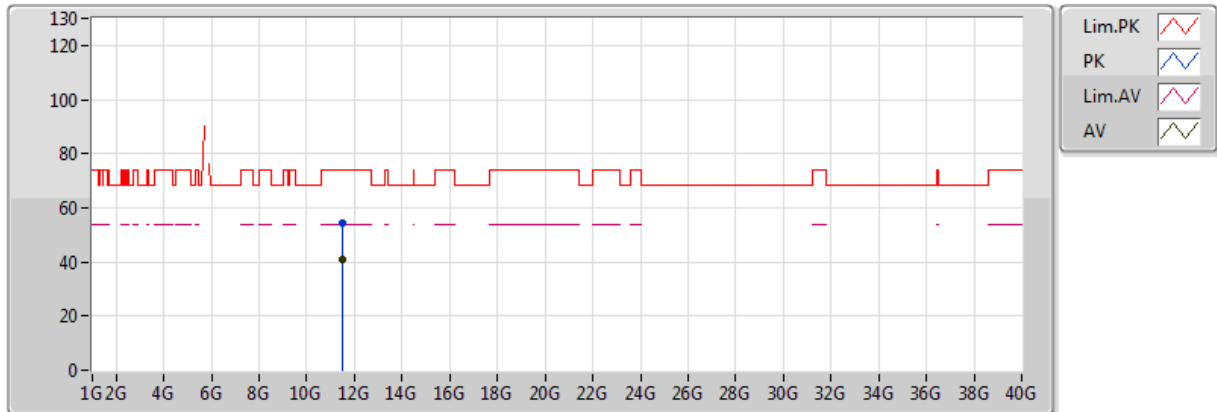


20171019
EUT Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.50952G	42.48	54.00	-11.52	12.30	3	Vertical	12	1.36					
PK	11.5139G	54.14	74.00	-19.86	12.30	3	Vertical	12	1.36					

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

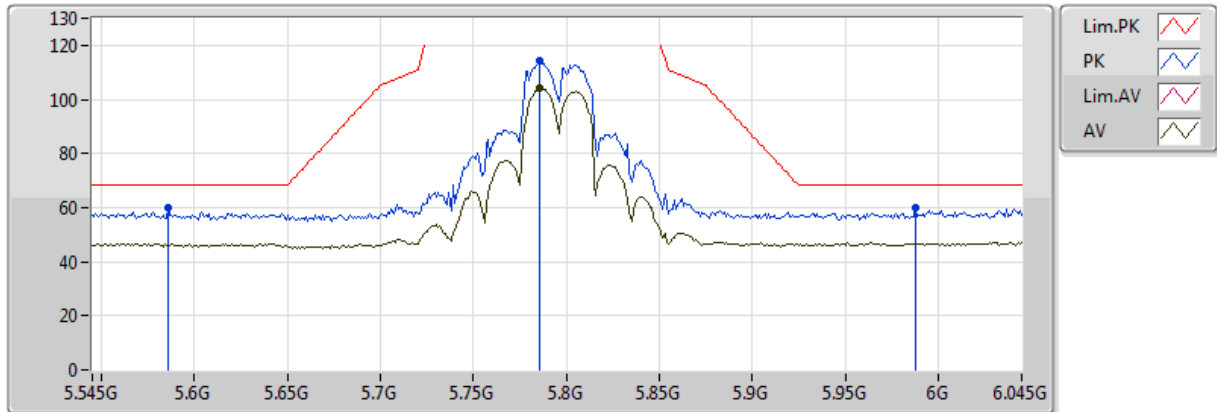


20171019
EUT Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	11.49956G	41.12	54.00	-12.88	12.31	3	Horizontal	140	1.25					
PK	11.51816G	54.09	74.00	-19.91	12.30	3	Horizontal	140	1.25					

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

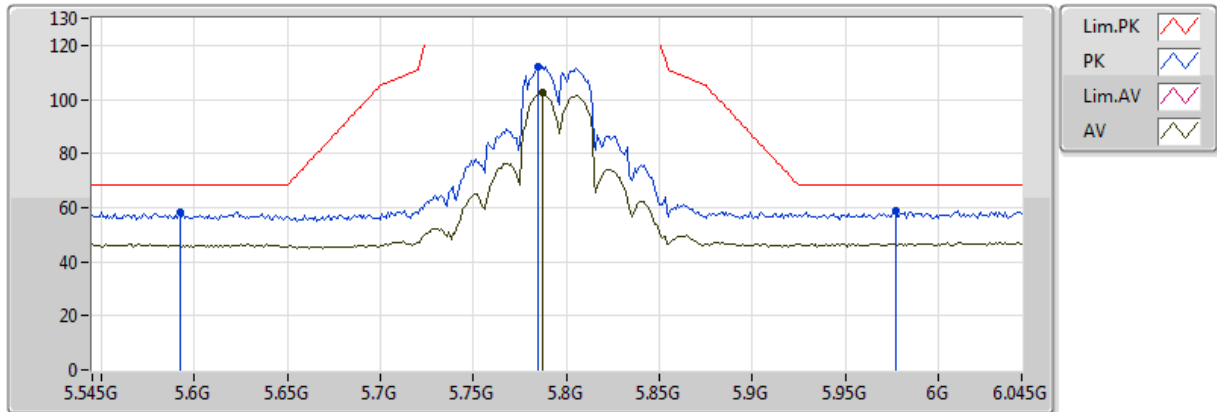


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.786G	104.19	Inf	-Inf	5.83	3	Vertical	62	2.58					
PK	5.586G	59.72	68.20	-8.48	5.25	3	Vertical	62	2.58					
PK	5.786G	114.13	Inf	-Inf	5.83	3	Vertical	62	2.58					
PK	5.988G	59.76	68.20	-8.44	6.57	3	Vertical	62	2.58					

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

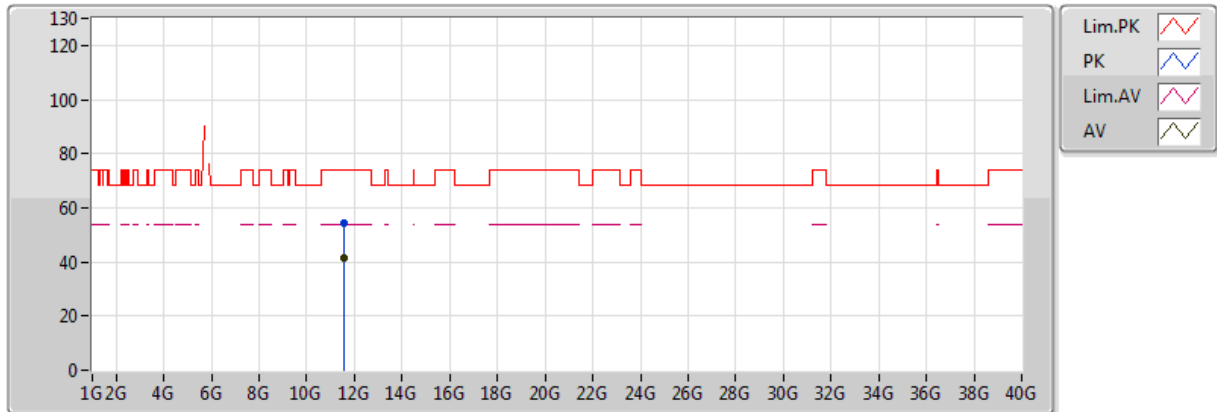


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.787G	102.57	Inf	-Inf	5.83	3	Horizontal	73	1.04					
PK	5.592G	58.34	68.20	-9.86	5.28	3	Horizontal	73	1.04					
PK	5.785G	112.10	Inf	-Inf	5.83	3	Horizontal	73	1.04					
PK	5.977G	58.66	68.20	-9.54	6.53	3	Horizontal	73	1.04					

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

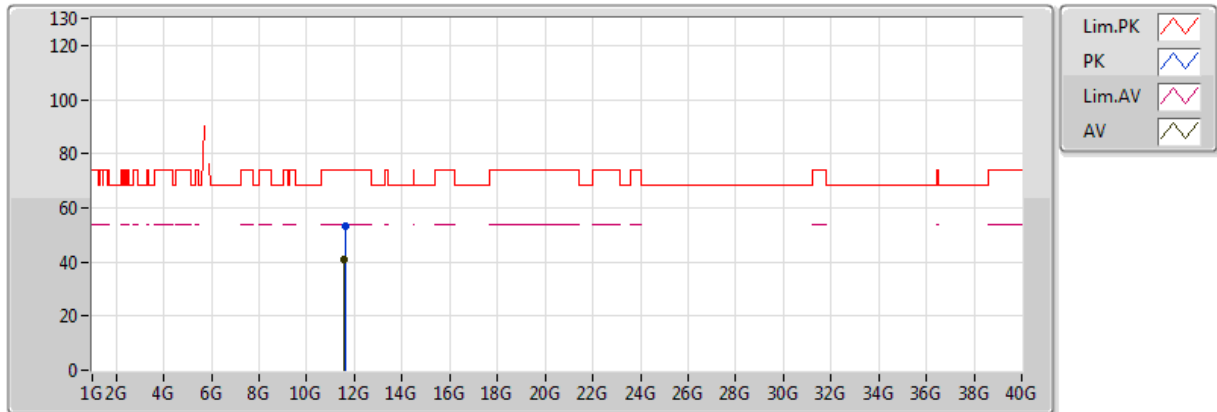


20171019
EUT Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	11.58928G	41.40	54.00	-12.60	12.29	3	Vertical	153	1.45					
PK	11.57662G	54.20	74.00	-19.80	12.29	3	Vertical	153	1.45					

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

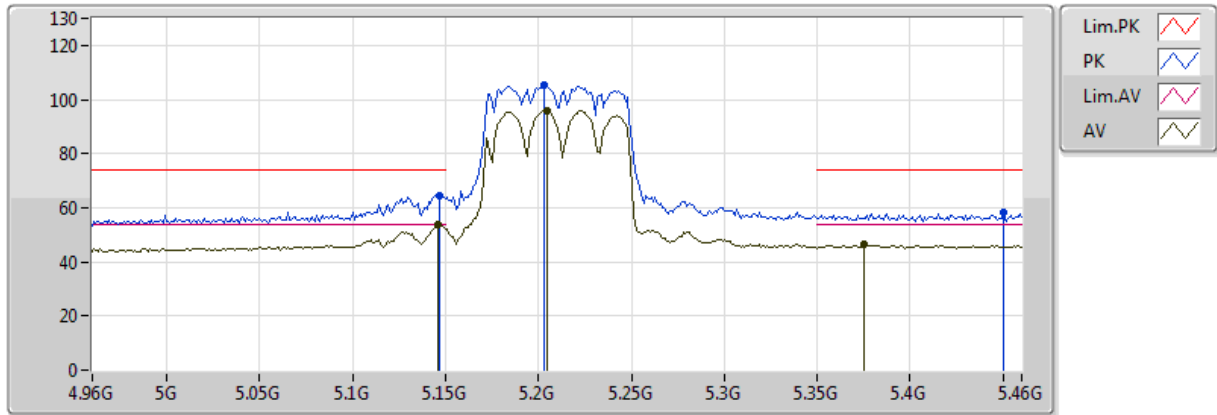


20171019
EUT Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.57812G	40.82	54.00	-13.18	12.29	3	Horizontal	303	1.60					
PK	11.60368G	52.98	74.00	-21.02	12.29	3	Horizontal	303	1.60					

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

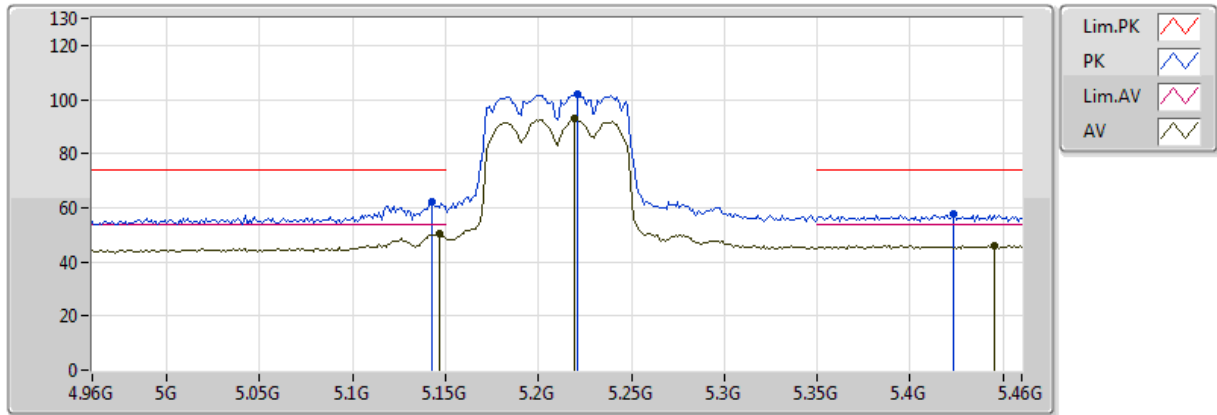


20171019
EUT_Z_2TX
Setting 16
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.146G	53.89	54.00	-0.11	4.16	3	Vertical	57	2.68					
AV	5.205G	95.99	Inf	-Inf	4.29	3	Vertical	57	2.68					
AV	5.375G	46.23	54.00	-7.77	4.56	3	Vertical	57	2.68					
PK	5.147G	64.61	74.00	-9.39	4.16	3	Vertical	57	2.68					
PK	5.203G	105.36	Inf	-Inf	4.29	3	Vertical	57	2.68					
PK	5.45G	58.42	74.00	-15.58	4.75	3	Vertical	57	2.68					

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

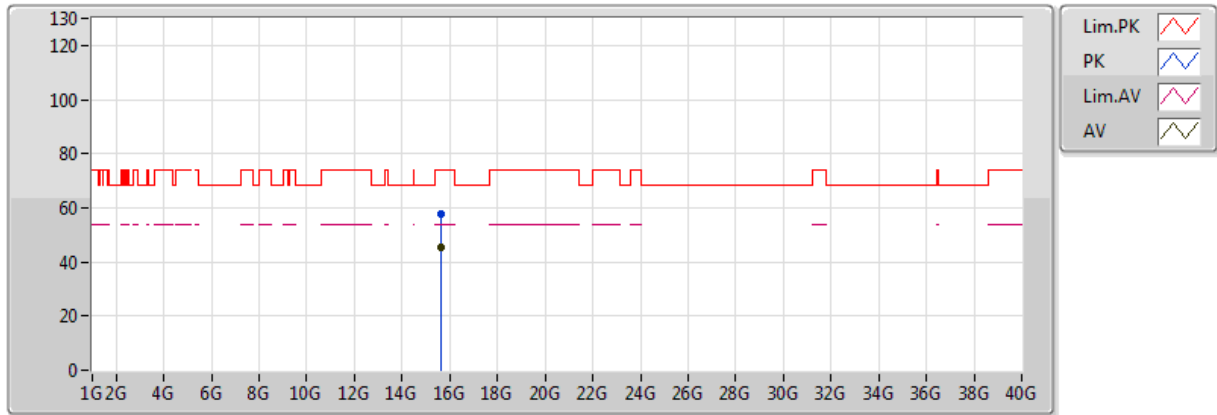


20171019
EUT_Z_2TX
Setting 16
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.147G	50.20	54.00	-3.80	4.16	3	Horizontal	80	1.00					
AV	5.219G	92.77	Inf	-Inf	4.31	3	Horizontal	80	1.00					
AV	5.445G	46.22	54.00	-7.78	4.73	3	Horizontal	80	1.00					
PK	5.143G	62.02	74.00	-11.98	4.15	3	Horizontal	80	1.00					
PK	5.221G	102.04	Inf	-Inf	4.32	3	Horizontal	80	1.00					
PK	5.423G	57.56	74.00	-16.44	4.66	3	Horizontal	80	1.00					

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

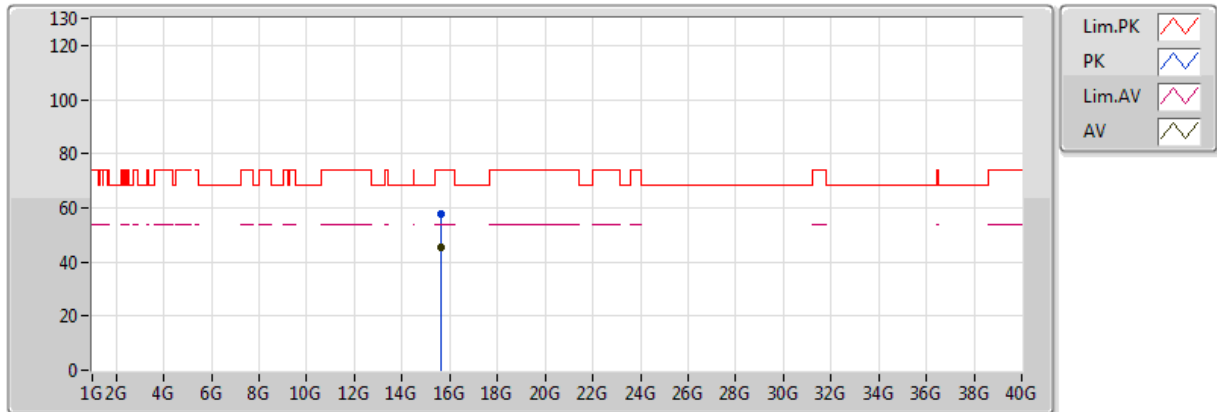


20171019
EUT Z_2TX
Setting 16
01-N-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	15.6224G	45.26	54.00	-8.74	13.44	3	Vertical	196	2.96					
PK	15.63176G	57.52	74.00	-16.48	13.43	3	Vertical	196	2.96					

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

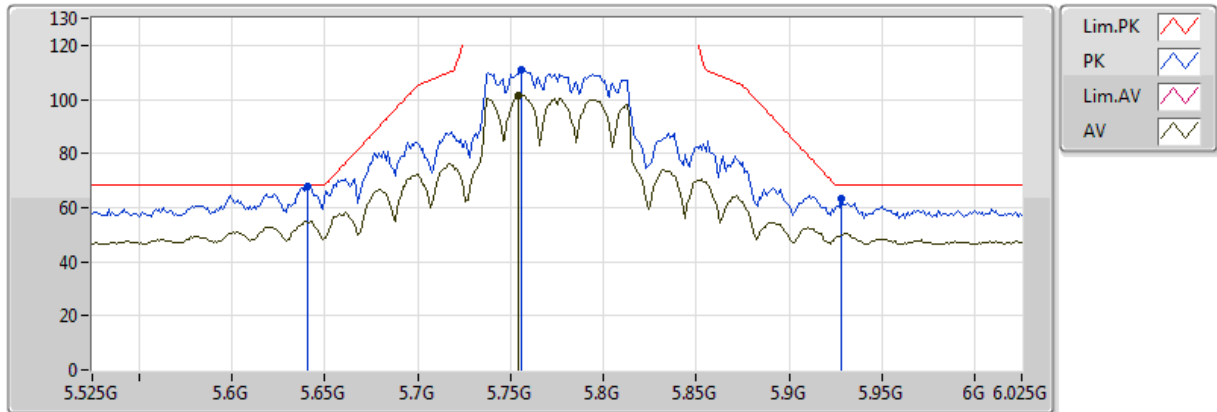


20171019
EUT_Z_2TX
Setting 16
01-N-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	15.62216G	45.34	54.00	-8.66	13.44	3	Horizontal	117	1.50					
PK	15.63748G	57.75	74.00	-16.25	13.42	3	Horizontal	117	1.50					

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

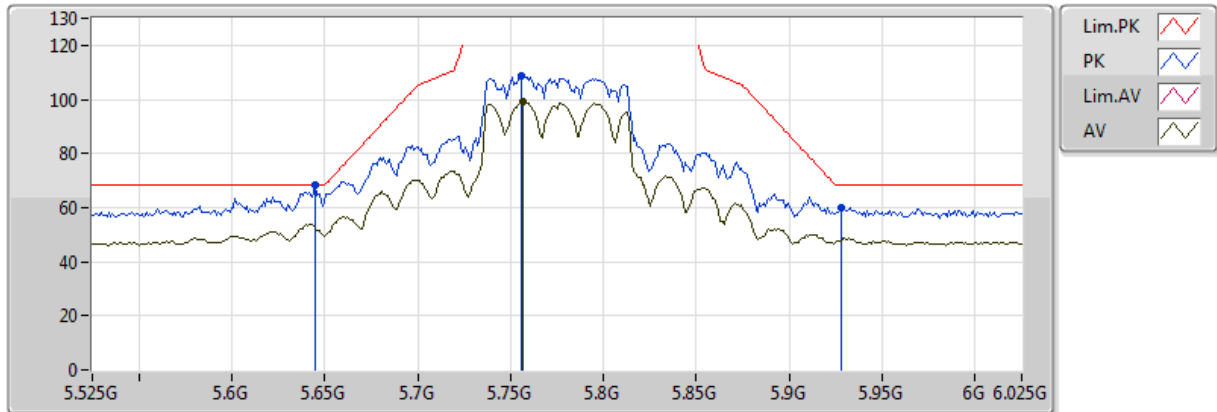


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.754G	101.32	Inf	-Inf	5.75	3	Vertical	65	2.74					
PK	5.641G	67.90	68.20	-0.30	5.43	3	Vertical	65	2.74					
PK	5.756G	110.89	Inf	-Inf	5.75	3	Vertical	65	2.74					
PK	5.928G	63.23	68.20	-4.97	6.35	3	Vertical	65	2.74					

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

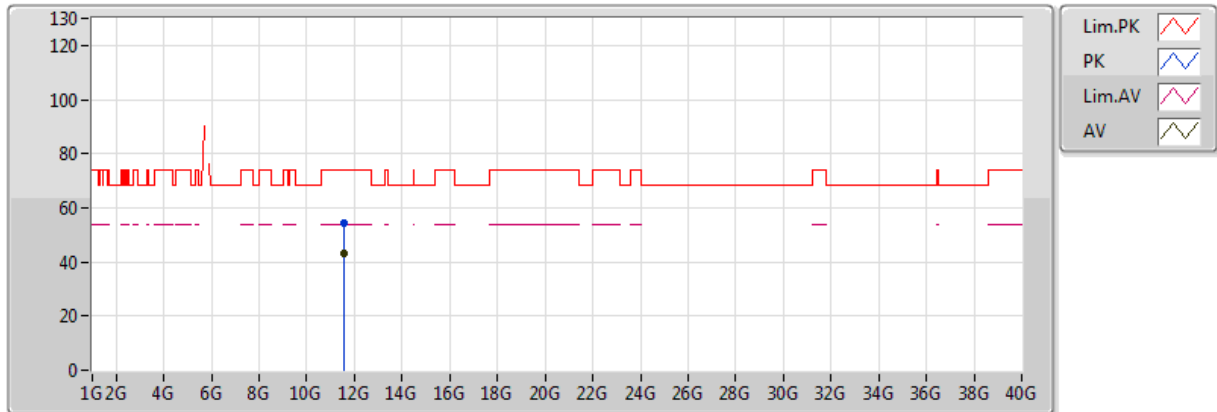


20171019
EUT_Z_2TX
Setting 25(Max)
01-N-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.757G	99.36	Inf	-Inf	5.75	3	Horizontal	72	1.01					
PK	5.645G	68.16	68.20	-0.04	5.44	3	Horizontal	72	1.01					
PK	5.756G	108.78	Inf	-Inf	5.75	3	Horizontal	72	1.01					
PK	5.928G	59.99	68.20	-8.21	6.35	3	Horizontal	72	1.01					

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

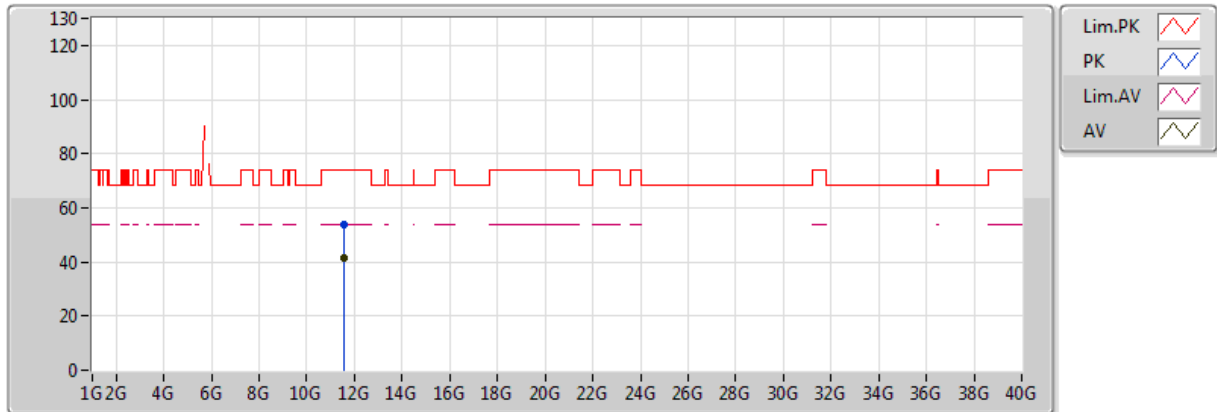


20171019
EUT Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.54988G	42.88	54.00	-11.12	12.30	3	Vertical	32	1.02					
PK	11.5504G	54.31	74.00	-19.69	12.30	3	Vertical	32	1.02					

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

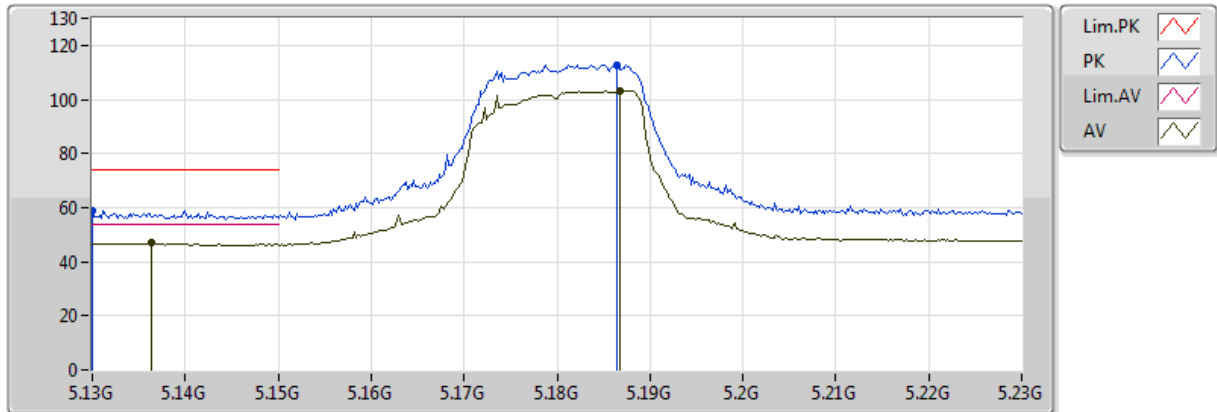


20171019
EUT Z_2TX
Setting 25(Max)
01-N-2
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.54984G	41.31	54.00	-12.69	12.30	3	Horizontal	45	1.19					
PK	11.54088G	53.57	74.00	-20.43	12.30	3	Horizontal	45	1.19					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5180MHz_TX

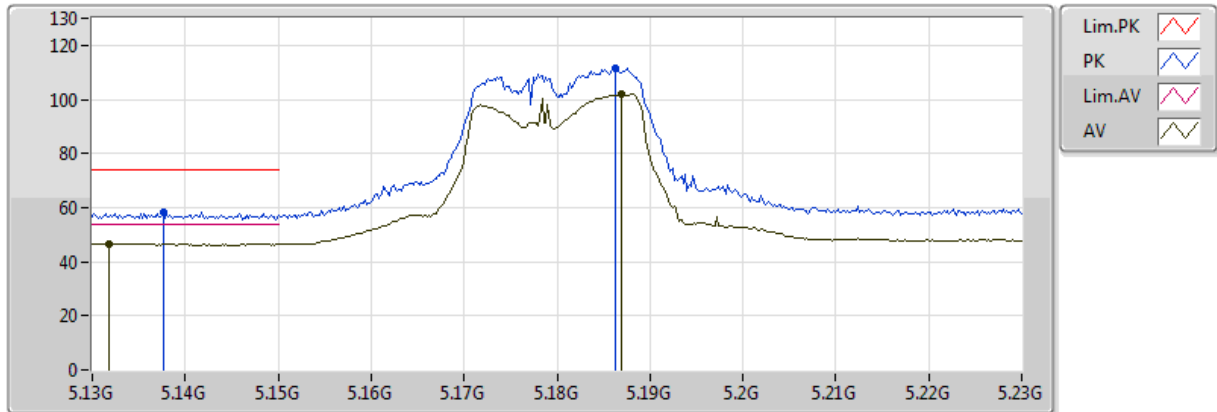


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1364G	46.83	54.00	-7.17	7.60	3	Vertical	50	1.06					
AV	5.1868G	103.18	Inf	-Inf	7.65	3	Vertical	50	1.06					
PK	5.13G	58.92	74.00	-15.08	7.60	3	Vertical	50	1.06					
PK	5.1864G	112.80	Inf	-Inf	7.65	3	Vertical	50	1.06					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5180MHz_TX

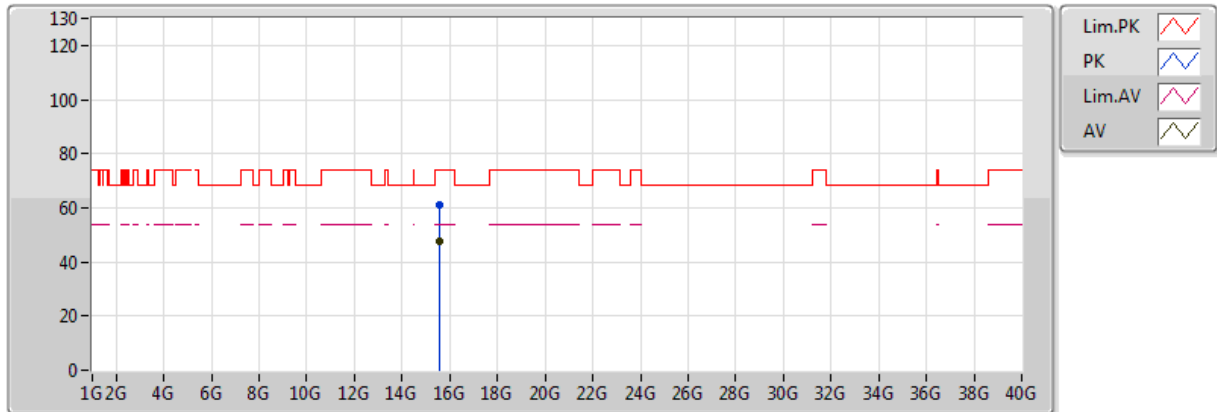


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1318G	46.72	54.00	-7.28	7.60	3	Horizontal	74	1.05					
AV	5.187G	101.76	Inf	-Inf	7.65	3	Horizontal	74	1.05					
PK	5.1376G	58.42	74.00	-15.58	7.60	3	Horizontal	74	1.05					
PK	5.1862G	111.26	Inf	-Inf	7.65	3	Horizontal	74	1.05					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5180MHz_TX

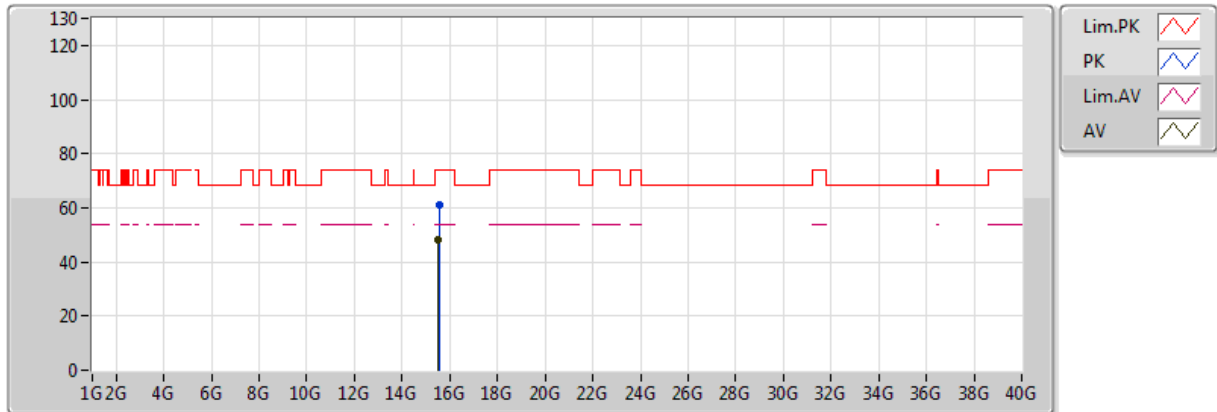


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.5434G	47.44	54.00	-6.56	19.18	3	Vertical	357	2.82					
PK	15.54108G	60.91	74.00	-13.09	19.19	3	Vertical	357	2.82					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5180MHz_TX

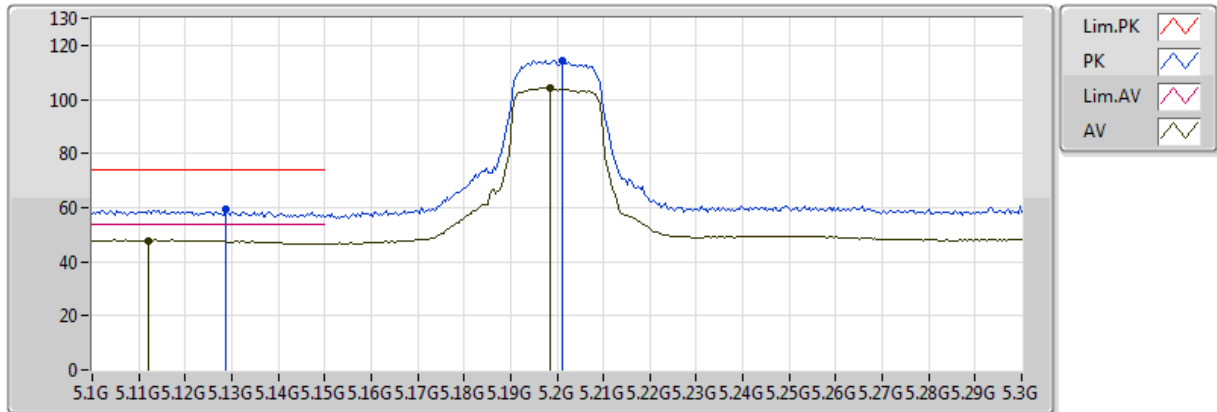


20171020
EUT Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	15.5364G	47.98	54.00	-6.02	19.21	3	Horizontal	235	1.61					
PK	15.53754G	61.17	74.00	-12.83	19.20	3	Horizontal	235	1.61					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

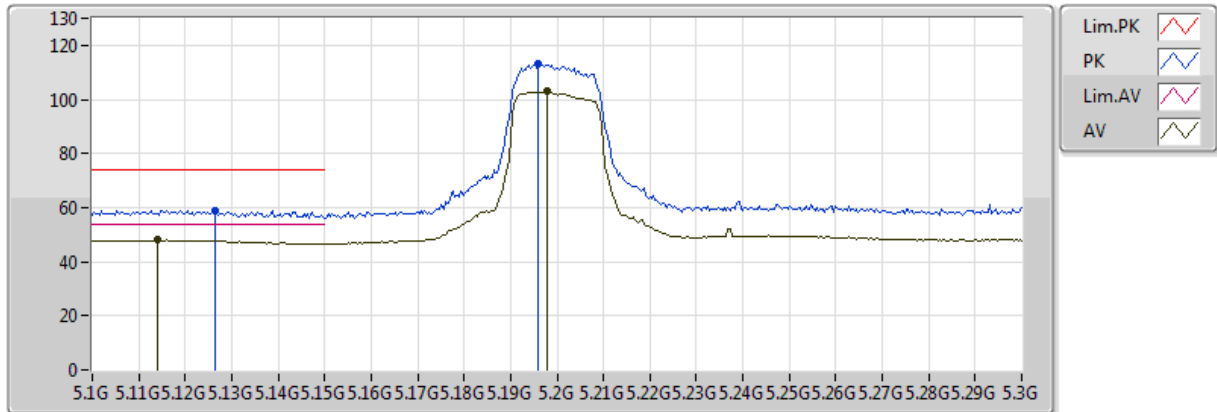


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.112G	47.58	54.00	-6.42	7.58	3	Vertical	54	1.24					
AV	5.1984G	104.41	Inf	-Inf	7.66	3	Vertical	54	1.24					
PK	5.1288G	59.28	74.00	-14.72	7.60	3	Vertical	54	1.24					
PK	5.2012G	114.47	Inf	-Inf	7.66	3	Vertical	54	1.24					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

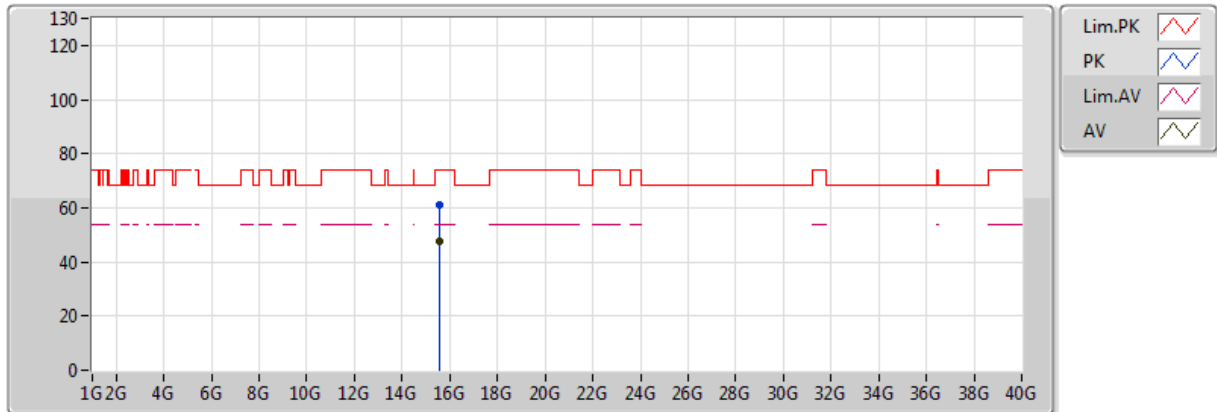


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.114G	47.98	54.00	-6.02	7.58	3	Horizontal	72	1.04					
AV	5.198G	102.91	Inf	-Inf	7.66	3	Horizontal	72	1.04					
PK	5.1264G	59.02	74.00	-14.98	7.59	3	Horizontal	72	1.04					
PK	5.196G	113.34	Inf	-Inf	7.66	3	Horizontal	72	1.04					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

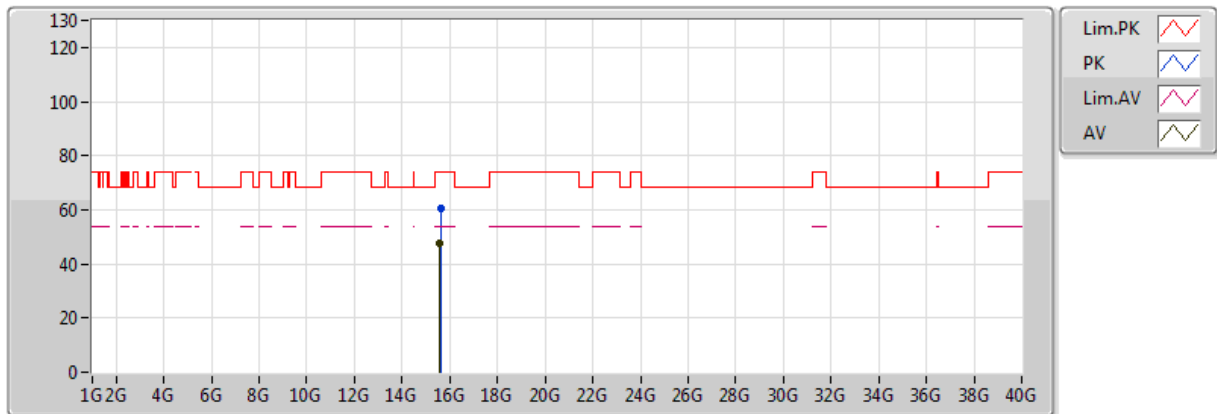


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.6004G	47.52	54.00	-6.48	18.98	3	Vertical	210	1.90					
PK	15.60106G	60.84	74.00	-13.16	18.97	3	Vertical	210	1.90					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

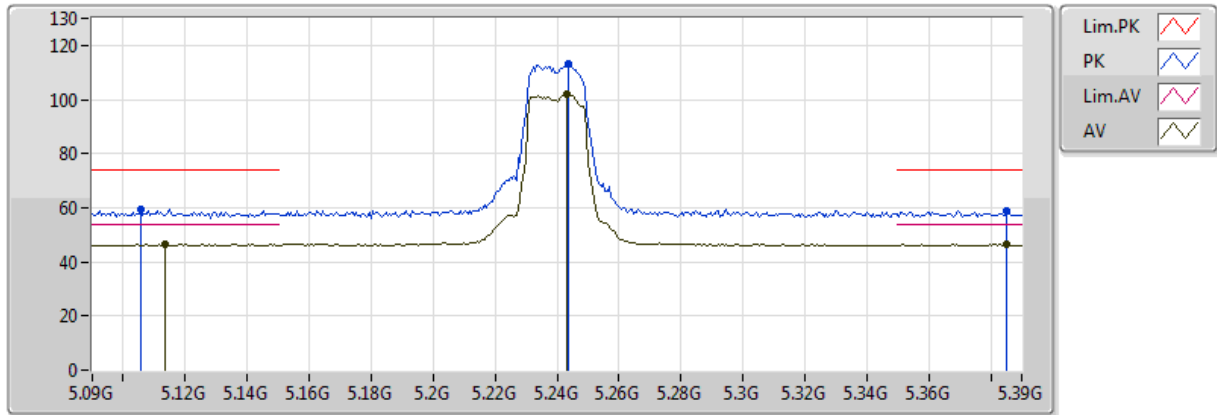


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.60082G	47.38	54.00	-6.62	18.98	3	Horizontal	279	1.47					
PK	15.60478G	60.72	74.00	-13.28	18.96	3	Horizontal	279	1.47					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

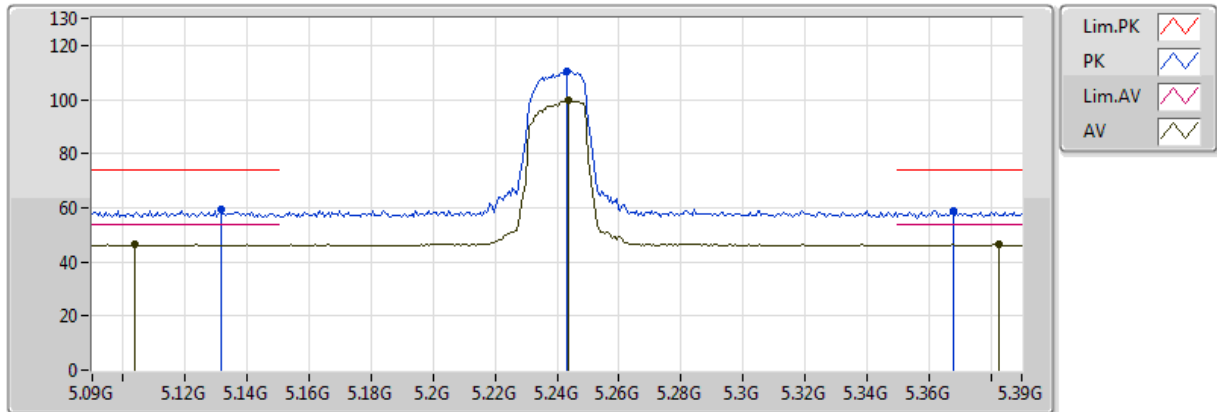


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1134G	46.34	54.00	-7.66	7.58	3	Vertical	43	2.67					
AV	5.243G	102.25	Inf	-Inf	7.70	3	Vertical	43	2.67					
AV	5.3852G	46.31	54.00	-7.69	7.82	3	Vertical	43	2.67					
PK	5.1056G	59.51	74.00	-14.49	7.58	3	Vertical	43	2.67					
PK	5.2436G	113.46	Inf	-Inf	7.70	3	Vertical	43	2.67					
PK	5.3852G	58.98	74.00	-15.02	7.82	3	Vertical	43	2.67					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

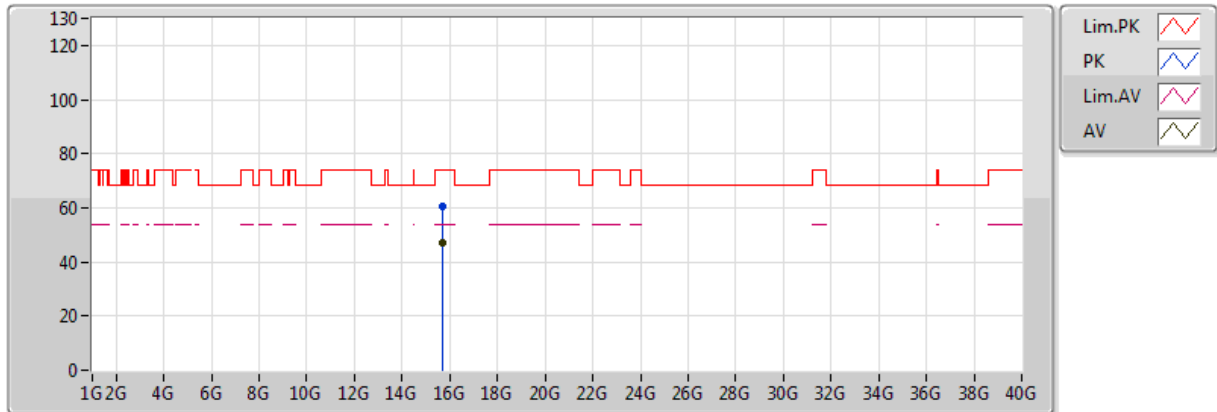


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1038G	46.37	54.00	-7.63	7.57	3	Horizontal	76	1.19					
AV	5.2436G	99.51	Inf	-Inf	7.70	3	Horizontal	76	1.19					
AV	5.3828G	46.35	54.00	-7.65	7.82	3	Horizontal	76	1.19					
PK	5.1314G	59.34	74.00	-14.66	7.60	3	Horizontal	76	1.19					
PK	5.243G	110.40	Inf	-Inf	7.70	3	Horizontal	76	1.19					
PK	5.3678G	58.71	74.00	-15.29	7.80	3	Horizontal	76	1.19					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

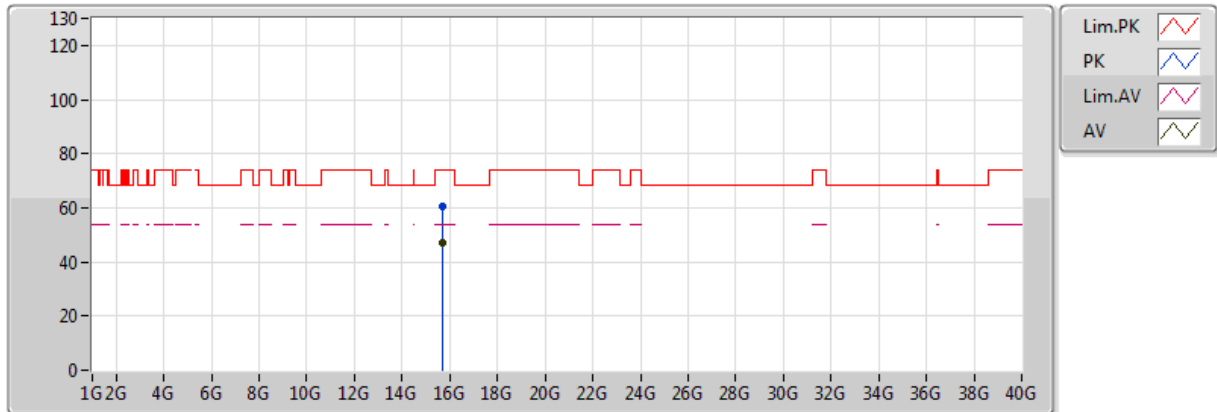


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	15.72358G	46.83	54.00	-7.17	18.53	3	Vertical	214	1.50					
PK	15.7152G	60.79	74.00	-13.21	18.56	3	Vertical	214	1.50					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

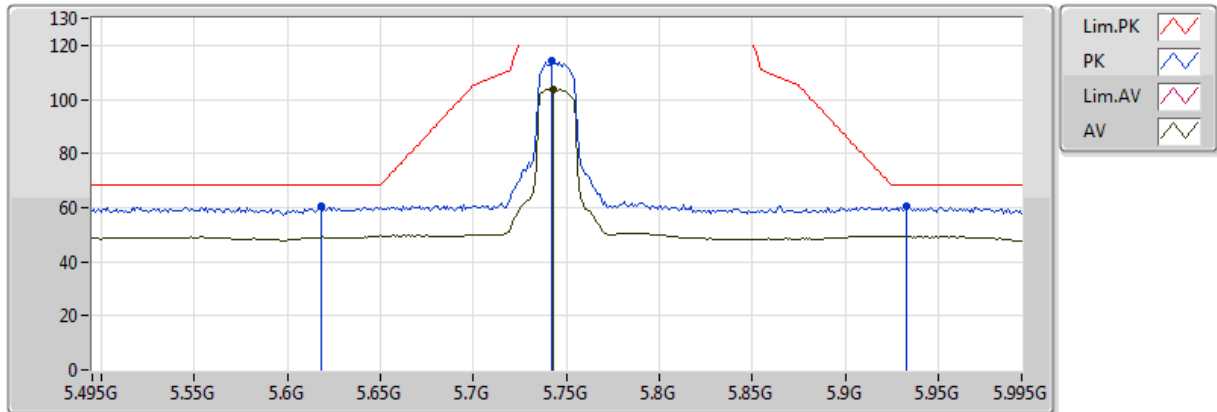


20171020
EUT_Z_2TX
Setting 22
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.7169G	46.92	54.00	-7.08	18.55	3	Horizontal	0	1.30					
PK	15.72352G	60.59	74.00	-13.41	18.53	3	Horizontal	0	1.30					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

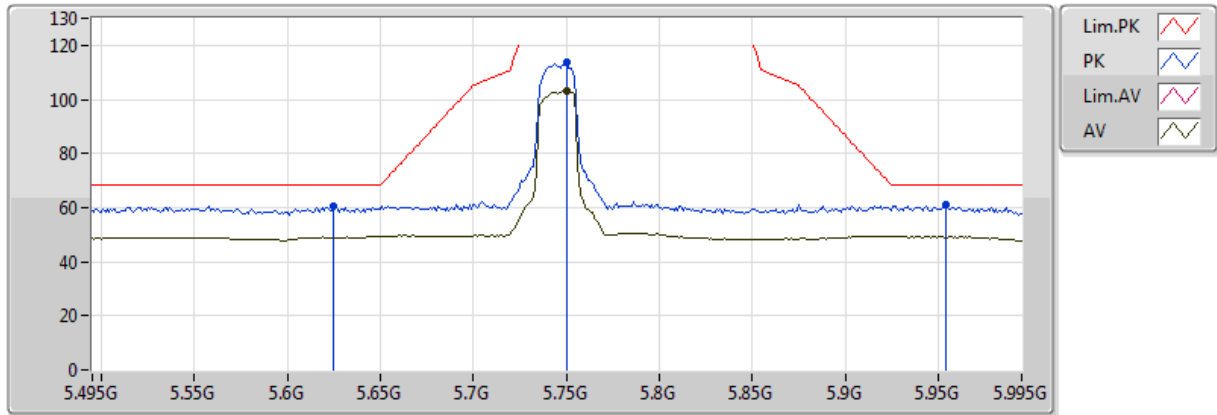


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.743G	103.82	Inf	-Inf	8.44	3	Vertical	134	1.26					
PK	5.618G	60.34	68.20	-7.86	8.19	3	Vertical	134	1.26					
PK	5.742G	114.05	Inf	-Inf	8.44	3	Vertical	134	1.26					
PK	5.933G	60.30	68.20	-7.90	8.93	3	Vertical	134	1.26					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

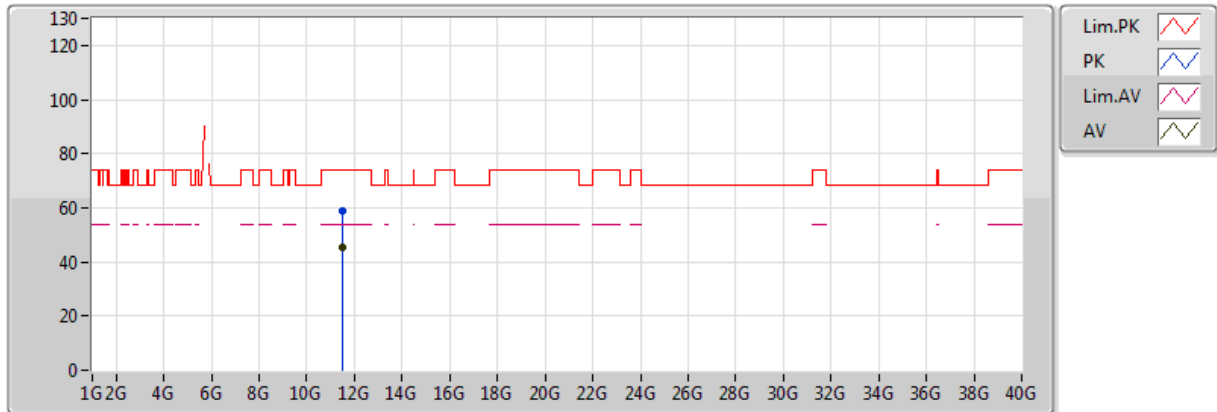


20171020
EUT Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.75G	103.09	Inf	-Inf	8.46	3	Horizontal	88	1.00					
PK	5.625G	60.39	68.20	-7.81	8.20	3	Horizontal	88	1.00					
PK	5.75G	113.50	Inf	-Inf	8.46	3	Horizontal	88	1.00					
PK	5.954G	61.08	68.20	-7.12	8.99	3	Horizontal	88	1.00					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

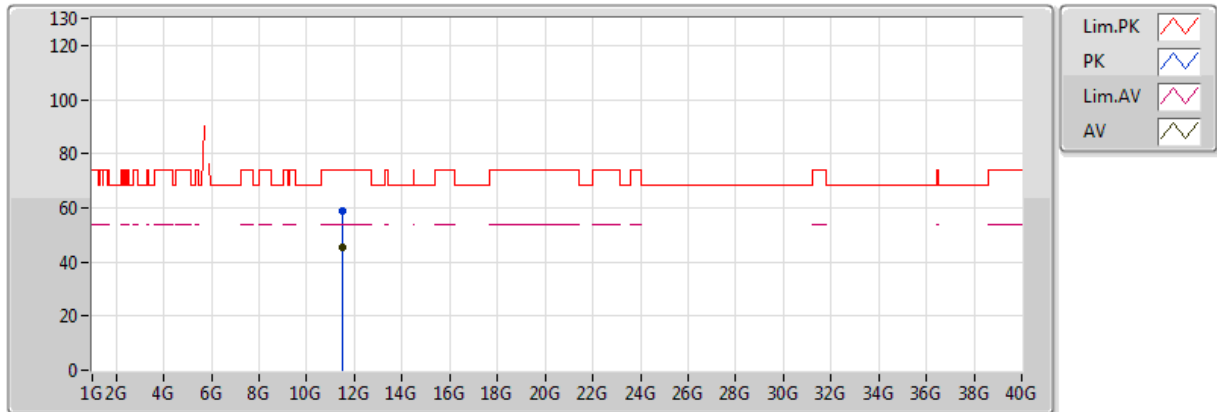


20171020
EUT Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	11.48956G	45.48	54.00	-8.52	17.80	3	Vertical	174	2.37					
PK	11.4908G	59.11	74.00	-14.89	17.80	3	Vertical	174	2.37					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

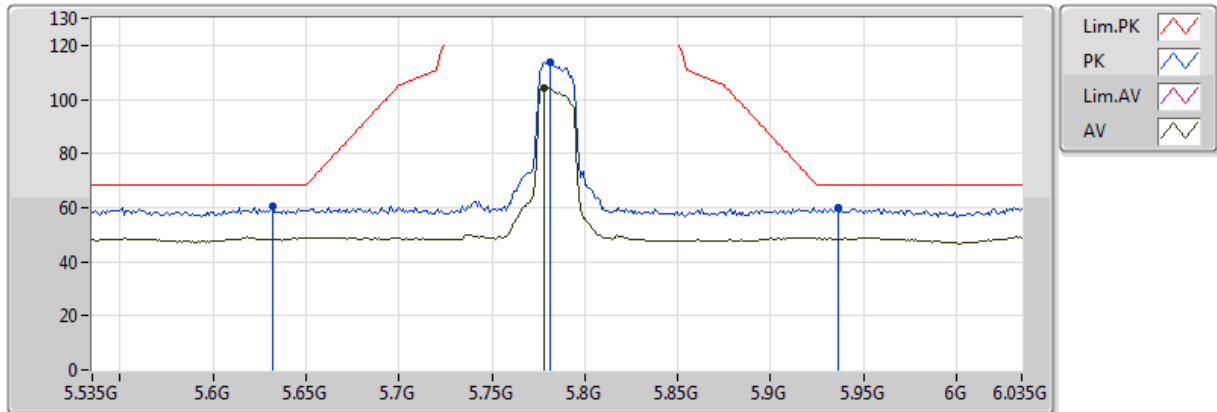


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.48826G	45.42	54.00	-8.58	17.80	3	Horizontal	133	1.98					
PK	11.48734G	59.06	74.00	-14.94	17.80	3	Horizontal	133	1.98					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5785MHz_TX

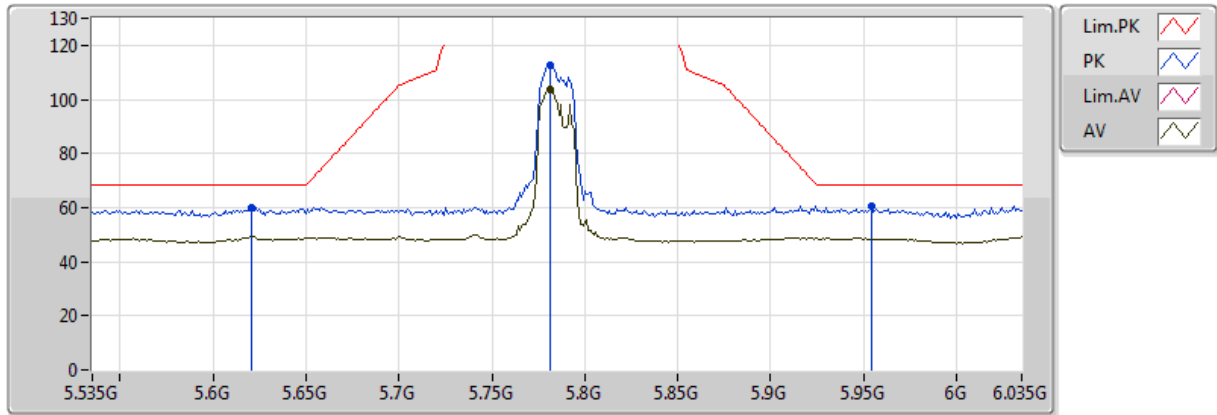


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.778G	104.48	Inf	-Inf	8.51	3	Vertical	71	2.60					
PK	5.632G	60.39	68.20	-7.81	8.21	3	Vertical	71	2.60					
PK	5.781G	113.99	Inf	-Inf	8.52	3	Vertical	71	2.60					
PK	5.936G	60.04	68.20	-8.16	8.94	3	Vertical	71	2.60					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5785MHz_TX

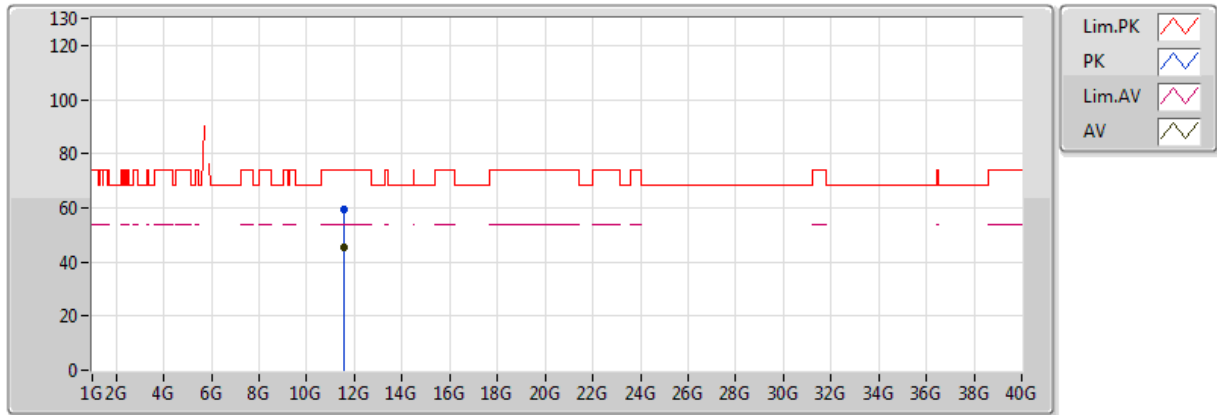


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.781G	103.58	Inf	-Inf	8.52	3	Horizontal	127	2.84					
PK	5.621G	60.06	68.20	-8.14	8.19	3	Horizontal	127	2.84					
PK	5.781G	112.75	Inf	-Inf	8.52	3	Horizontal	127	2.84					
PK	5.954G	60.32	68.20	-7.88	8.99	3	Horizontal	127	2.84					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5785MHz_TX

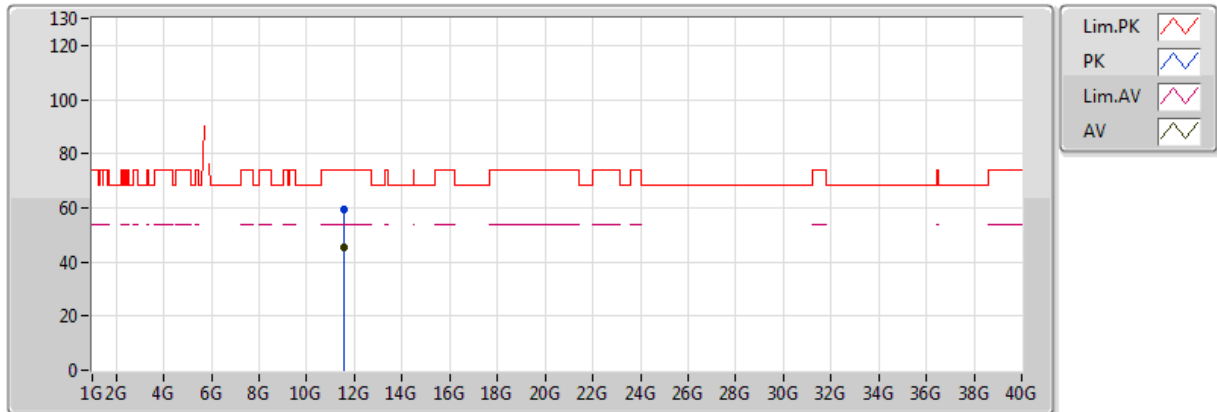


20171020
EUT Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.57086G	45.43	54.00	-8.57	17.67	3	Vertical	244	1.44					
PK	11.5735G	59.14	74.00	-14.86	17.67	3	Vertical	244	1.44					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5785MHz_TX

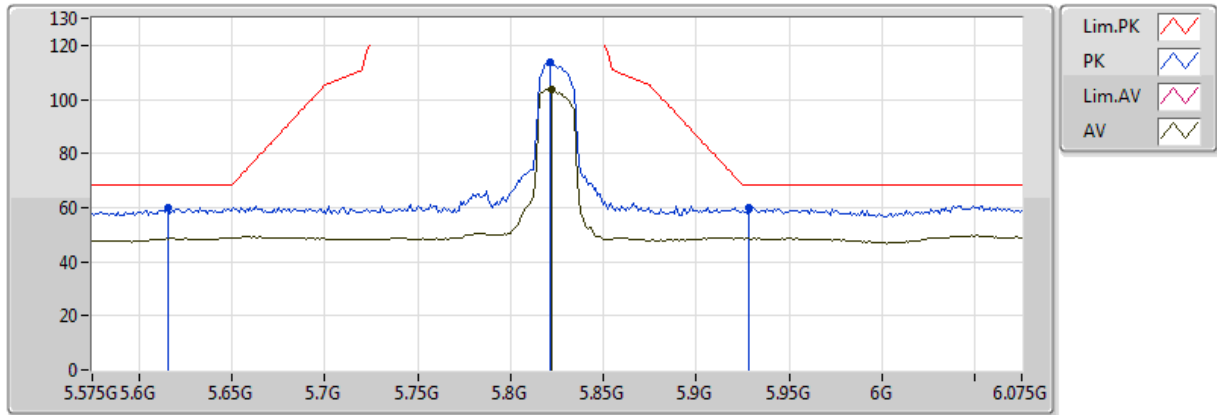


20171020
EUT Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.57318G	45.34	54.00	-8.66	17.67	3	Horizontal	152	2.16					
PK	11.57424G	59.42	74.00	-14.58	17.67	3	Horizontal	152	2.16					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5825MHz_TX

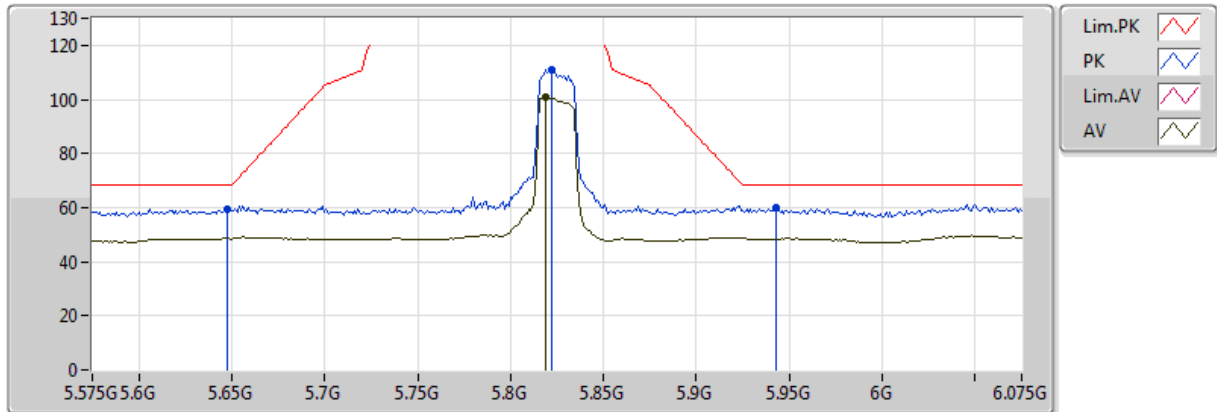


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.822G	103.51	Inf	-Inf	8.62	3	Vertical	66	2.31					
PK	5.616G	59.88	68.20	-8.32	8.18	3	Vertical	66	2.31					
PK	5.821G	113.88	Inf	-Inf	8.62	3	Vertical	66	2.31					
PK	5.928G	60.05	68.20	-8.15	8.92	3	Vertical	66	2.31					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5825MHz_TX

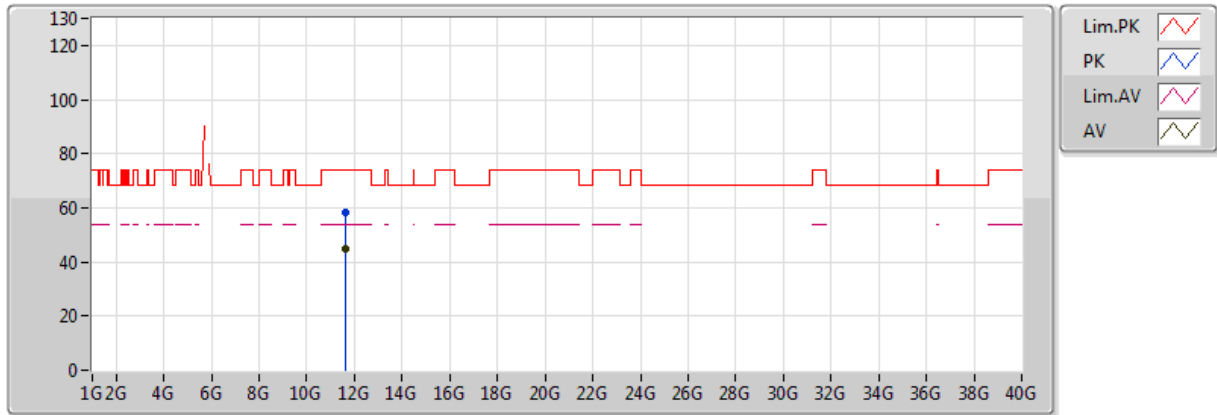


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.819G	100.74	Inf	-Inf	8.61	3	Horizontal	63	1.12					
PK	5.648G	59.63	68.20	-8.57	8.25	3	Horizontal	63	1.12					
PK	5.822G	110.82	Inf	-Inf	8.62	3	Horizontal	63	1.12					
PK	5.943G	59.77	68.20	-8.43	8.96	3	Horizontal	63	1.12					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5825MHz_TX

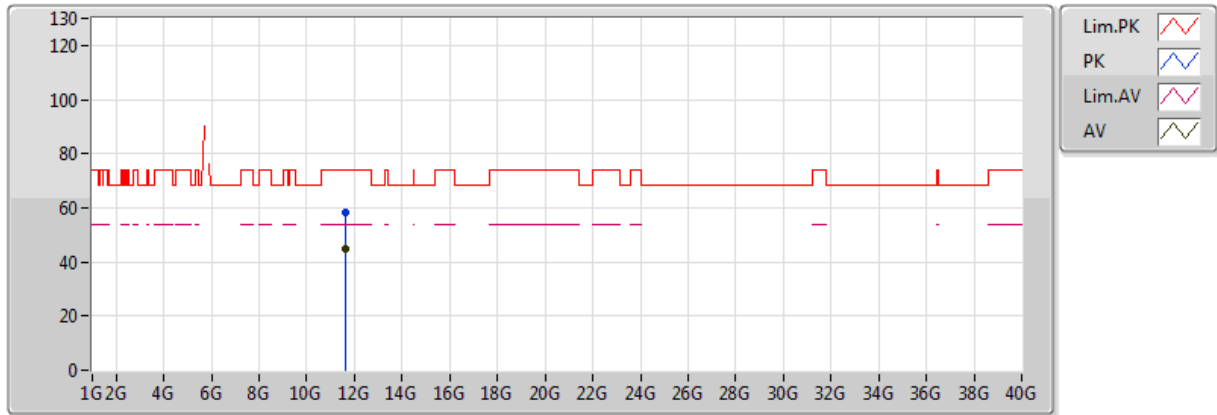


20171020
EUT Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	11.64622G	44.94	54.00	-9.06	17.56	3	Vertical	135	1.11					
PK	11.65136G	58.44	74.00	-15.56	17.55	3	Vertical	135	1.11					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5825MHz_TX

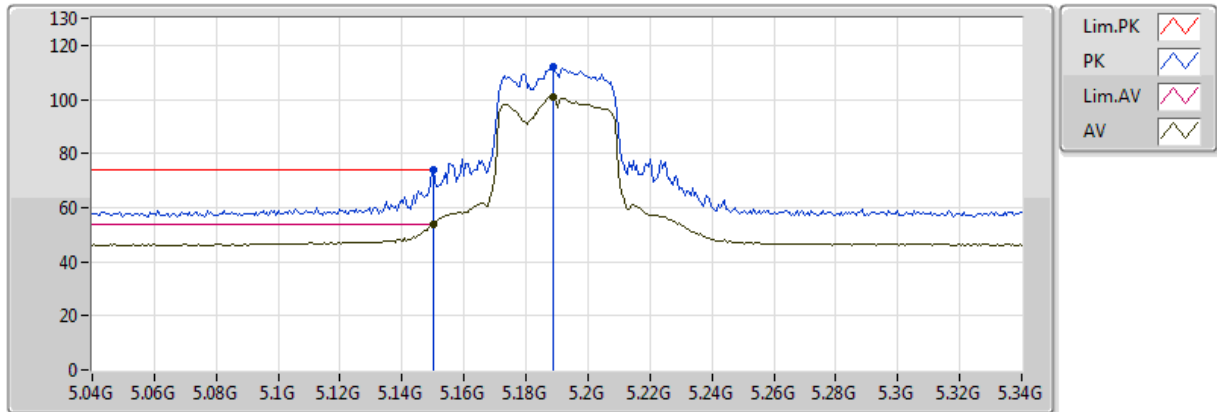


20171020
EUT Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.64802G	44.88	54.00	-9.12	17.55	3	Horizontal	209	1.40					
PK	11.64692G	58.17	74.00	-15.83	17.55	3	Horizontal	209	1.40					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5190MHz_TX

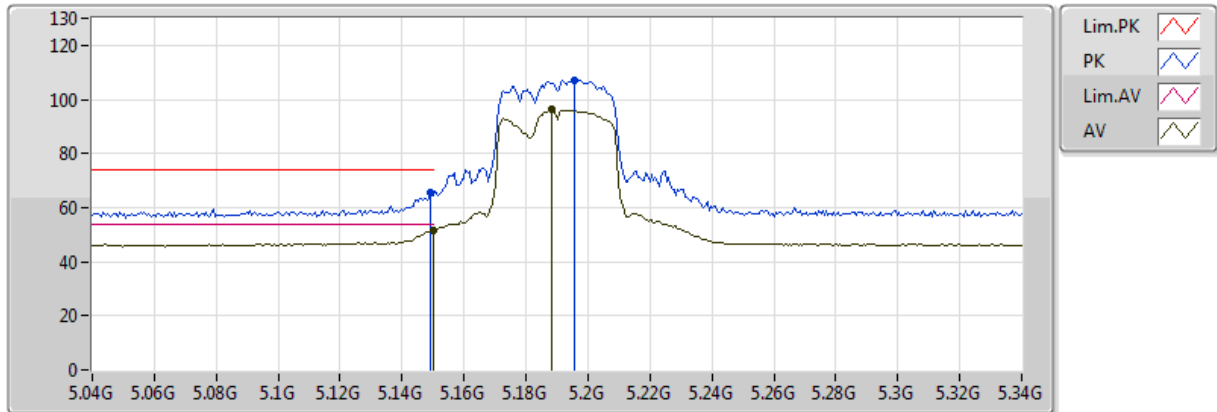


20171020
EUT_Z_2TX
Setting 22
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.149995G	53.91	54.00	-0.09	7.61	3	Vertical	85	2.99					
AV	5.1888G	101.09	Inf	-Inf	7.65	3	Vertical	85	2.99					
PK	5.149995G	73.99	74.00	-0.01	7.61	3	Vertical	85	2.99					
PK	5.1888G	112.09	Inf	-Inf	7.65	3	Vertical	85	2.99					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5190MHz_TX

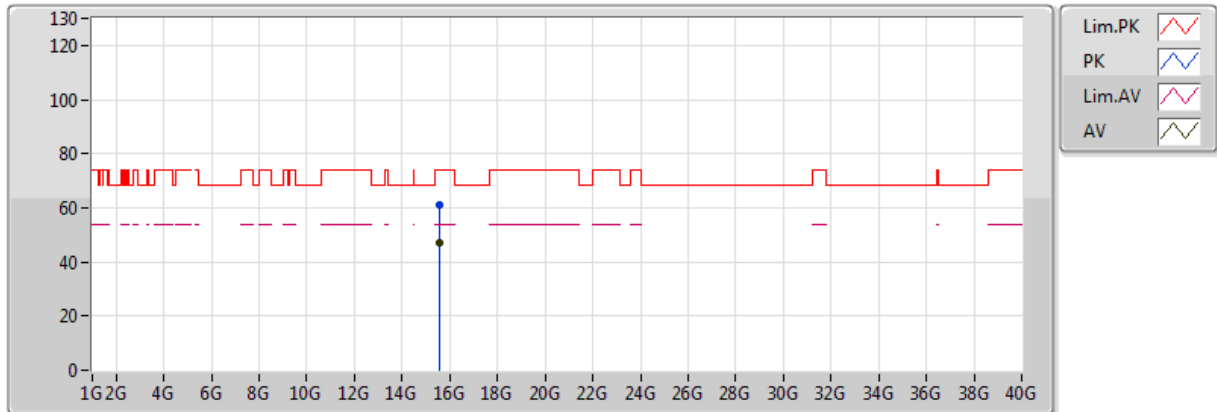


20171020
EUT_Z_2TX
Setting 22
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.149995G	51.52	54.00	-2.48	7.61	3	Horizontal	78	1.01					
AV	5.1882G	96.14	Inf	-Inf	7.65	3	Horizontal	78	1.01					
PK	5.1492G	65.39	74.00	-8.61	7.61	3	Horizontal	78	1.01					
PK	5.1954G	107.27	Inf	-Inf	7.66	3	Horizontal	78	1.01					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5190MHz_TX

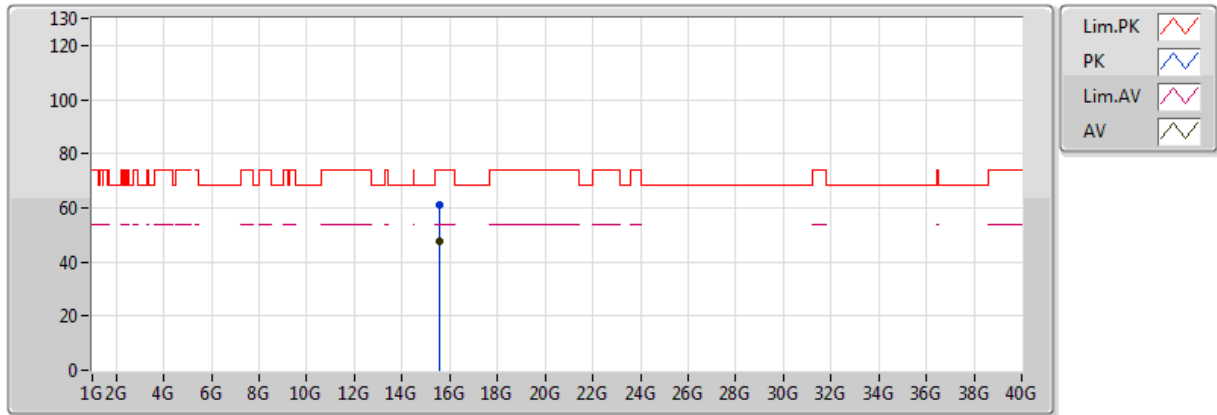


20171020
EUT_Z_2TX
Setting 22
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.57062G	47.34	54.00	-6.66	19.08	3	Vertical	152	1.04					
PK	15.57222G	61.08	74.00	-12.92	19.08	3	Vertical	152	1.04					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5190MHz_TX

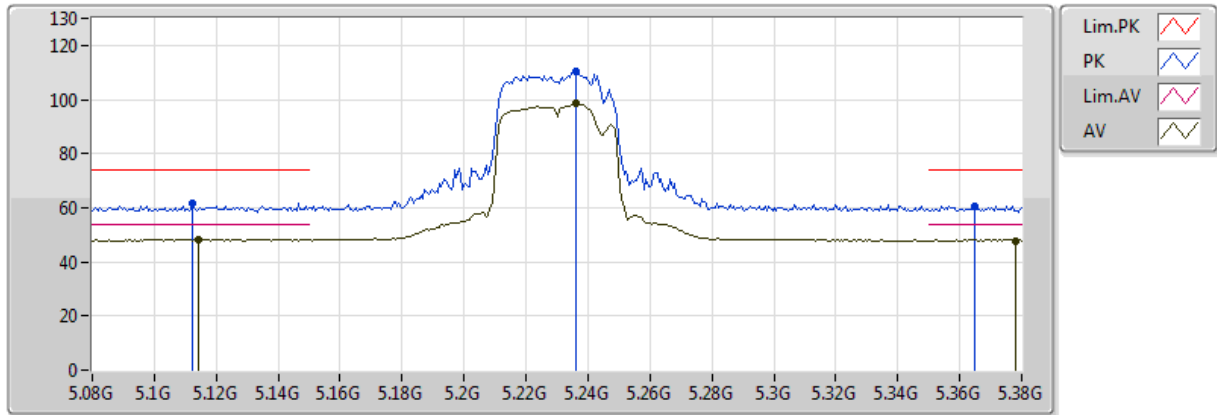


20171020
EUT_Z_2TX
Setting 22
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	15.56878G	47.52	54.00	-6.48	19.09	3	Horizontal	285	1.79					
PK	15.56974G	61.04	74.00	-12.96	19.09	3	Horizontal	285	1.79					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

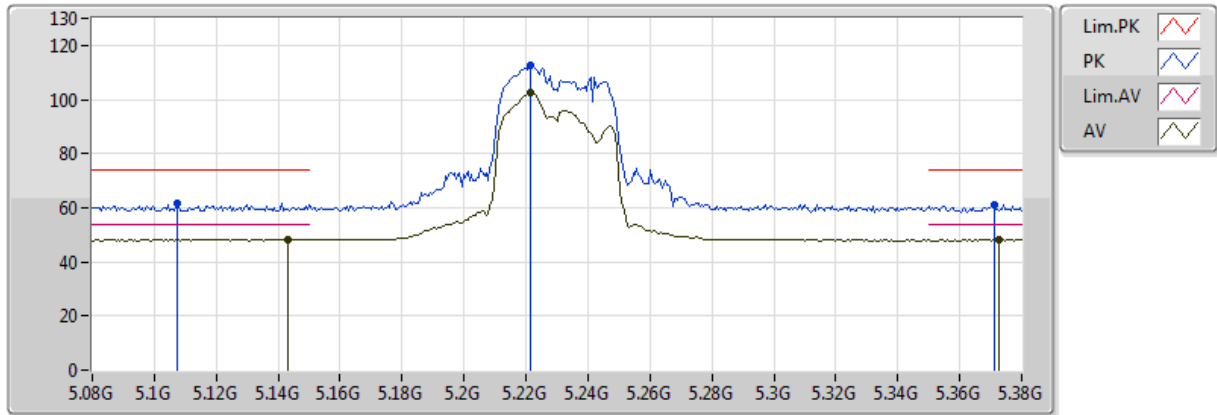


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.1142G	48.36	54.00	-5.64	7.58	3	Vertical	277	2.72					
AV	5.236G	98.63	Inf	-Inf	7.69	3	Vertical	277	2.72					
AV	5.3782G	47.89	54.00	-6.11	7.81	3	Vertical	277	2.72					
PK	5.1124G	61.72	74.00	-12.28	7.58	3	Vertical	277	2.72					
PK	5.236G	110.27	Inf	-Inf	7.69	3	Vertical	277	2.72					
PK	5.365G	60.69	74.00	-13.31	7.80	3	Vertical	277	2.72					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

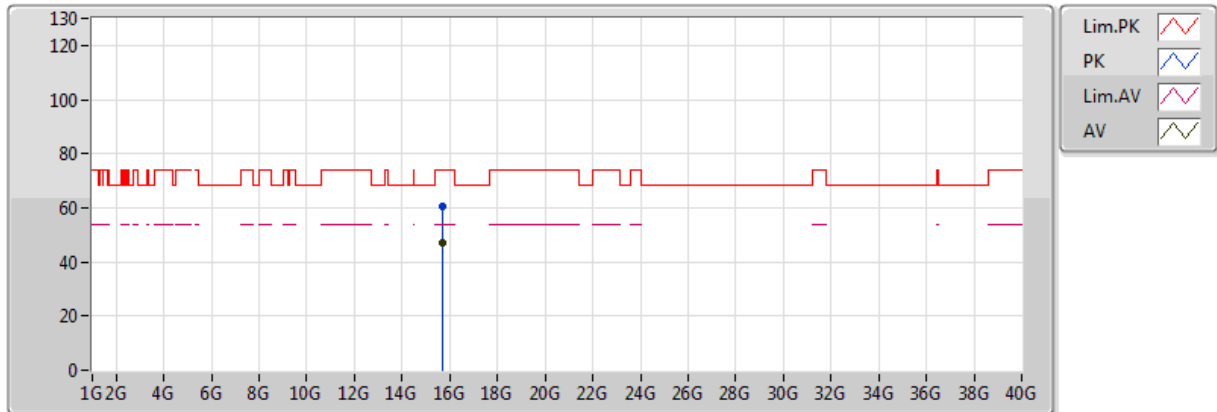


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.143G	48.33	54.00	-5.67	7.61	3	Horizontal	204	2.66					
AV	5.2216G	102.37	Inf	-Inf	7.68	3	Horizontal	204	2.66					
AV	5.3728G	47.98	54.00	-6.02	7.81	3	Horizontal	204	2.66					
PK	5.1076G	61.72	74.00	-12.28	7.58	3	Horizontal	204	2.66					
PK	5.2216G	112.71	Inf	-Inf	7.68	3	Horizontal	204	2.66					
PK	5.371G	61.04	74.00	-12.96	7.81	3	Horizontal	204	2.66					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

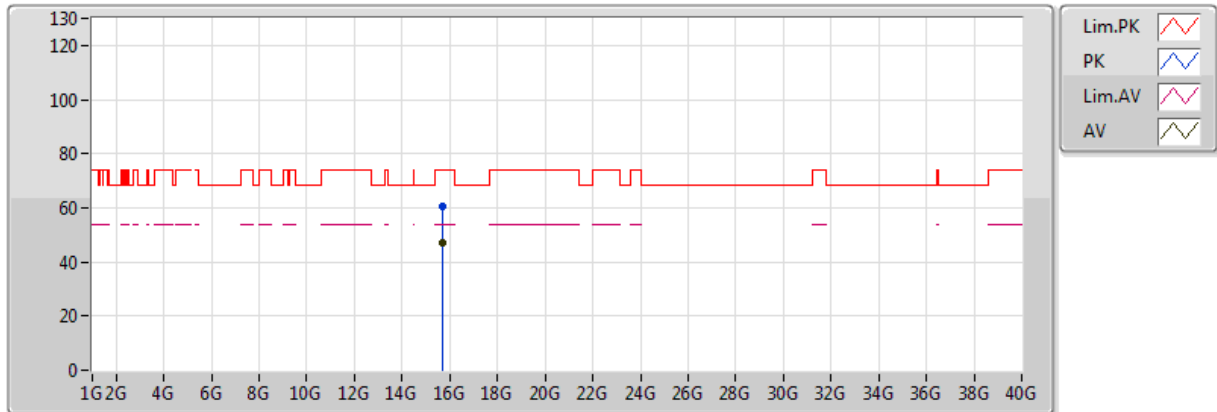


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	15.69428G	47.25	54.00	-6.75	18.64	3	Vertical	211	1.68					
PK	15.68804G	60.41	74.00	-13.59	18.66	3	Vertical	211	1.68					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

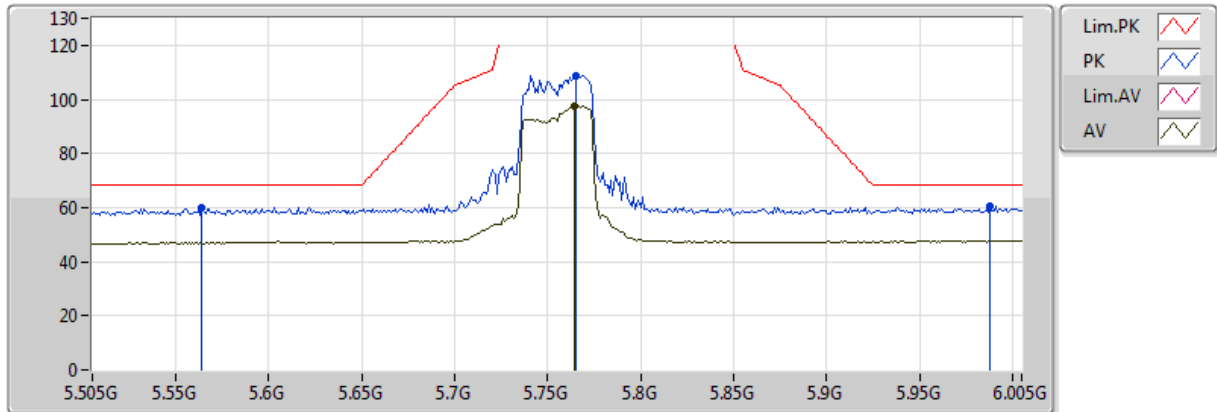


20171020
EUT Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	15.692G	46.98	54.00	-7.02	18.64	3	Horizontal	261	2.25					
PK	15.69328G	60.51	74.00	-13.49	18.64	3	Horizontal	261	2.25					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5755MHz_TX

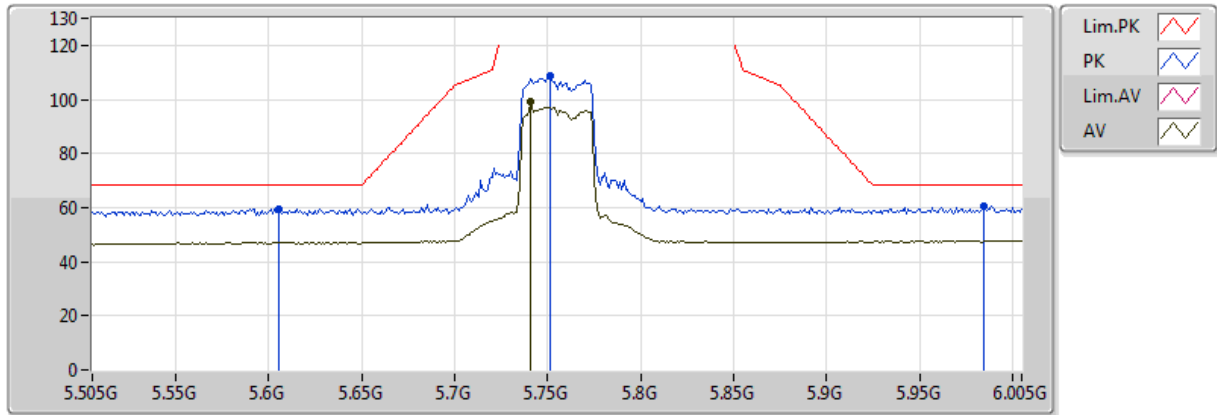


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.764G	97.47	Inf	-Inf	8.48	3	Vertical	60	2.64					
PK	5.564G	60.03	68.20	-8.17	8.06	3	Vertical	60	2.64					
PK	5.765G	108.65	Inf	-Inf	8.49	3	Vertical	60	2.64					
PK	5.988G	60.51	68.20	-7.69	9.08	3	Vertical	60	2.64					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5755MHz_TX

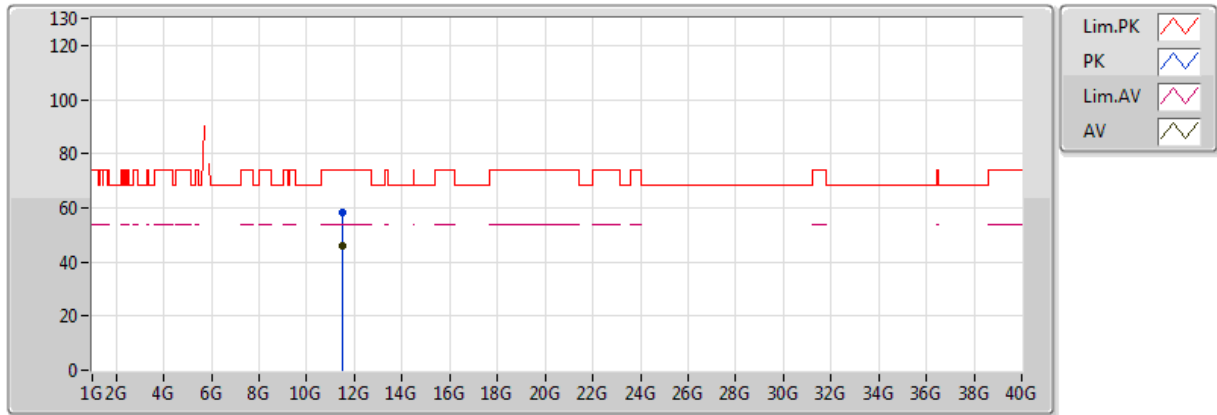


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.741G	99.35	Inf	-Inf	8.44	3	Horizontal	79	1.07					
PK	5.605G	59.55	68.20	-8.65	8.16	3	Horizontal	79	1.07					
PK	5.751G	108.43	Inf	-Inf	8.46	3	Horizontal	79	1.07					
PK	5.985G	60.68	68.20	-7.52	9.07	3	Horizontal	79	1.07					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5755MHz_TX

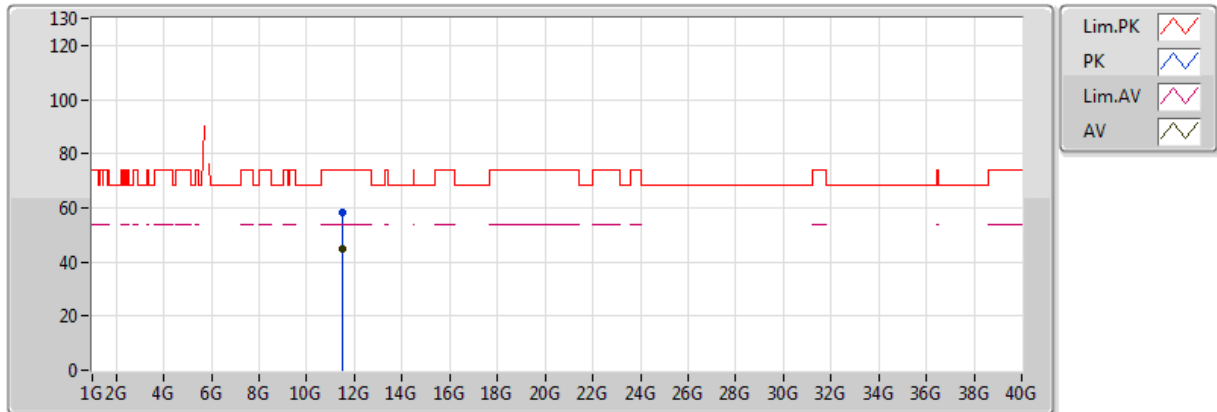


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.50846G	45.85	54.00	-8.15	17.77	3	Vertical	153	1.53					
PK	11.50642G	58.15	74.00	-15.85	17.77	3	Vertical	153	1.53					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5755MHz_TX

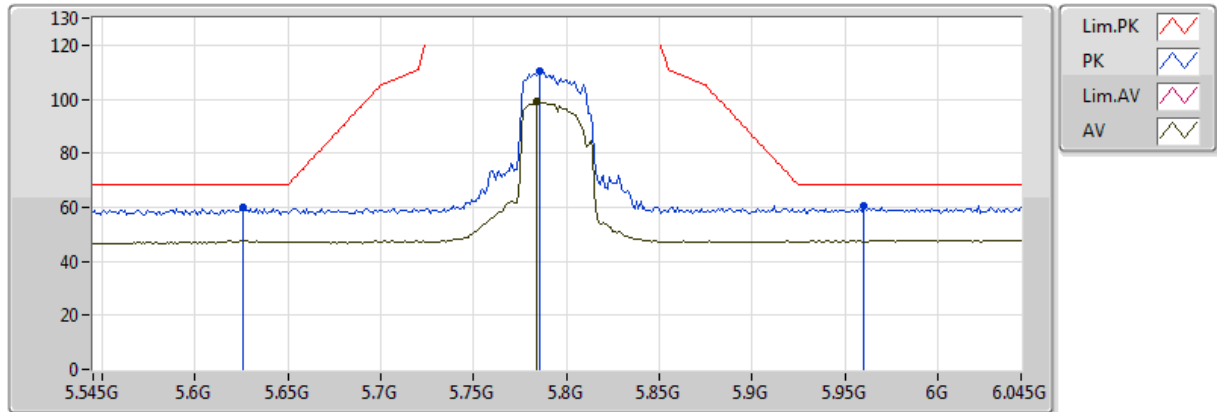


20171020
EUT Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.51398G	45.09	54.00	-8.91	17.76	3	Horizontal	306	2.58					
PK	11.50752G	58.36	74.00	-15.64	17.77	3	Horizontal	306	2.58					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

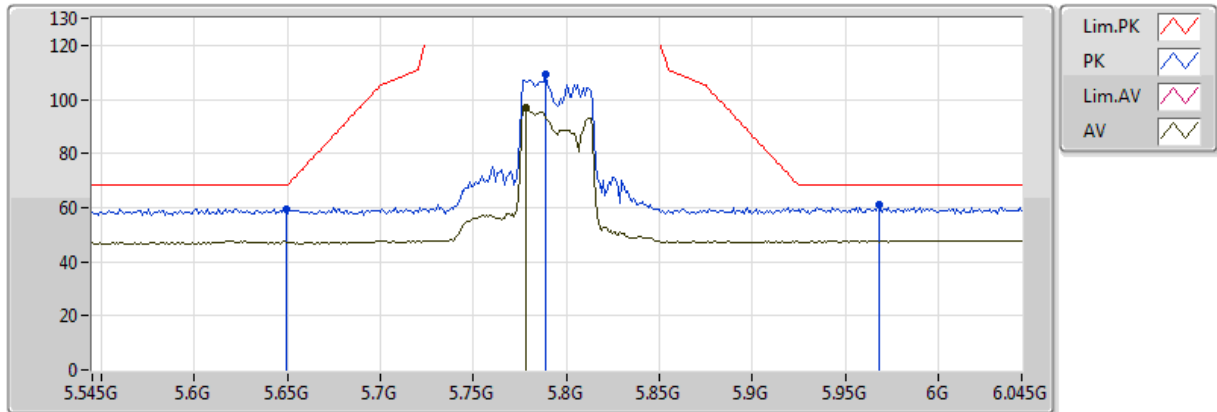


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.784G	99.14	Inf	-Inf	8.53	3	Vertical	86	2.82					
PK	5.626G	59.75	68.20	-8.45	8.20	3	Vertical	86	2.82					
PK	5.786G	110.59	Inf	-Inf	8.53	3	Vertical	86	2.82					
PK	5.96G	60.51	68.20	-7.69	9.00	3	Vertical	86	2.82					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

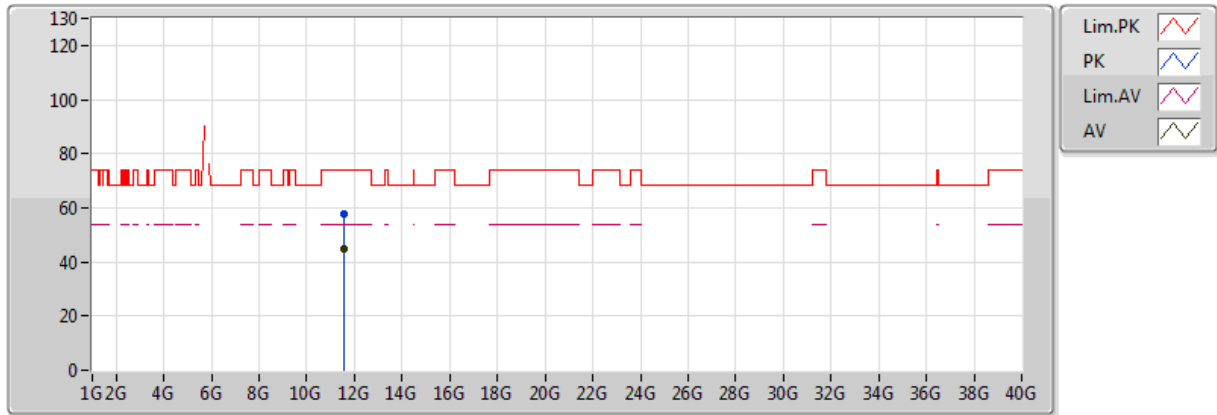


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.778G	97.19	Inf	-Inf	8.51	3	Horizontal	76	1.04					
PK	5.649G	59.51	68.20	-8.69	8.25	3	Horizontal	76	1.04					
PK	5.789G	109.19	Inf	-Inf	8.54	3	Horizontal	76	1.04					
PK	5.968G	61.10	68.20	-7.10	9.02	3	Horizontal	76	1.04					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

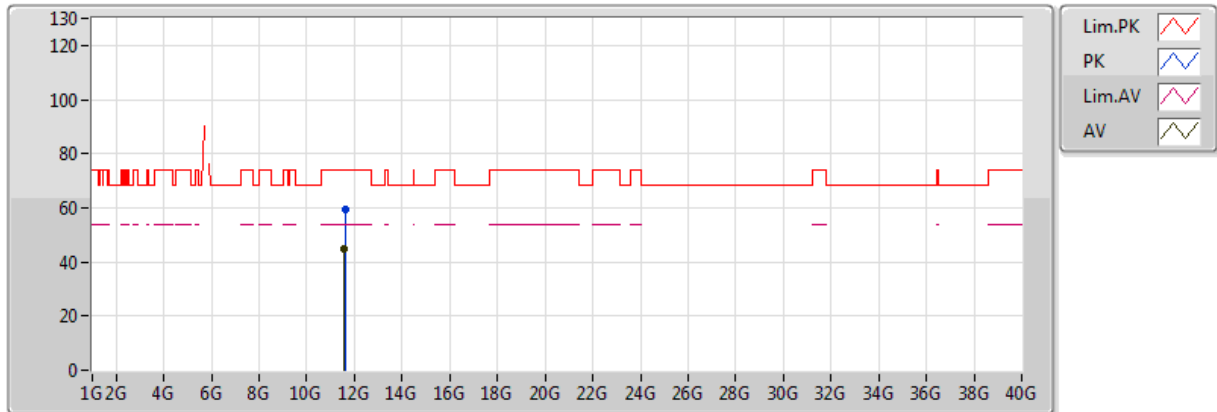


20171020
EUT Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.59294G	44.95	54.00	-9.05	17.64	3	Vertical	176	1.77					
PK	11.58648G	57.92	74.00	-16.08	17.65	3	Vertical	176	1.77					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

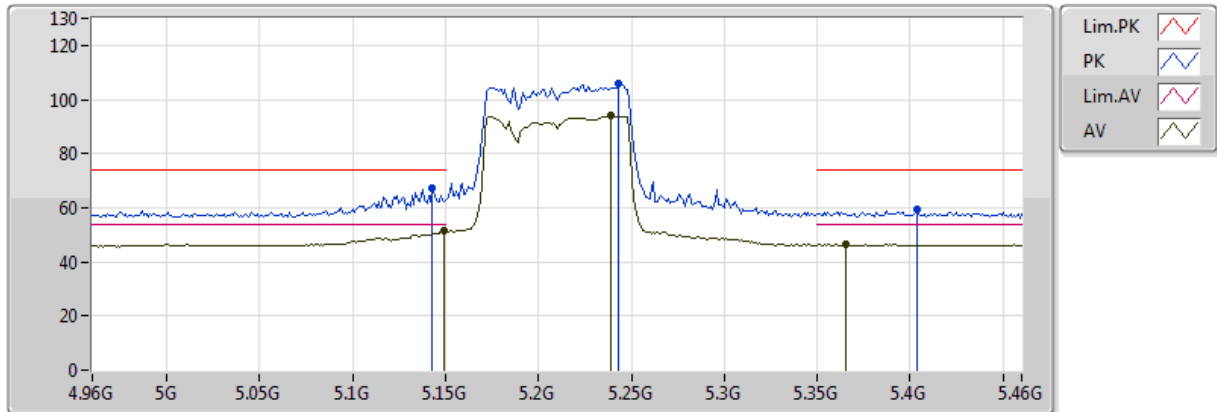


20171020
EUT Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.5884G	45.07	54.00	-8.93	17.65	3	Horizontal	207	2.29					
PK	11.59446G	59.13	74.00	-14.87	17.64	3	Horizontal	207	2.29					

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

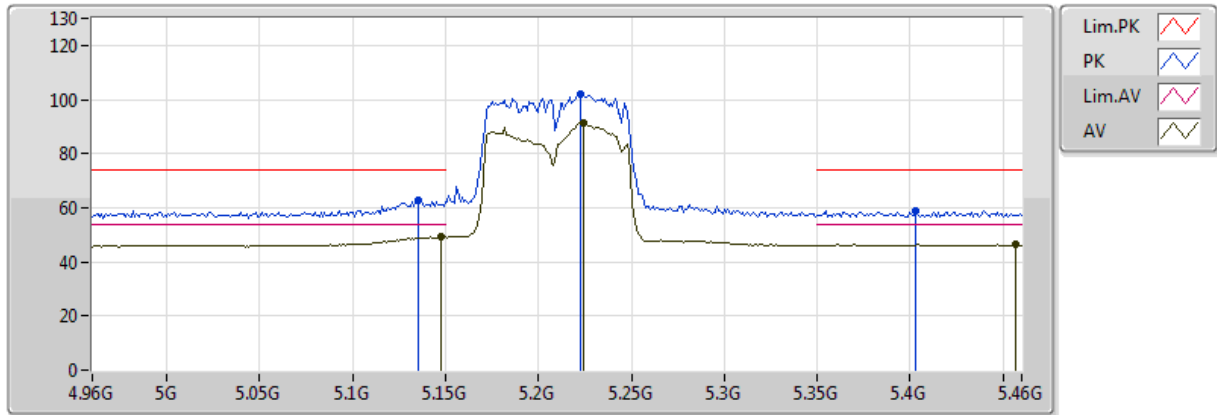


20171020
EUT_Z_2TX
Setting 21 (↑1 over)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.149G	51.81	54.00	-2.19	7.61	3	Vertical	88	2.78					
AV	5.239G	94.14	Inf	-Inf	7.70	3	Vertical	88	2.78					
AV	5.365G	46.44	54.00	-7.56	7.80	3	Vertical	88	2.78					
PK	5.143G	67.01	74.00	-6.99	7.61	3	Vertical	88	2.78					
PK	5.243G	105.63	Inf	-Inf	7.70	3	Vertical	88	2.78					
PK	5.404G	59.19	74.00	-14.81	7.83	3	Vertical	88	2.78					

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

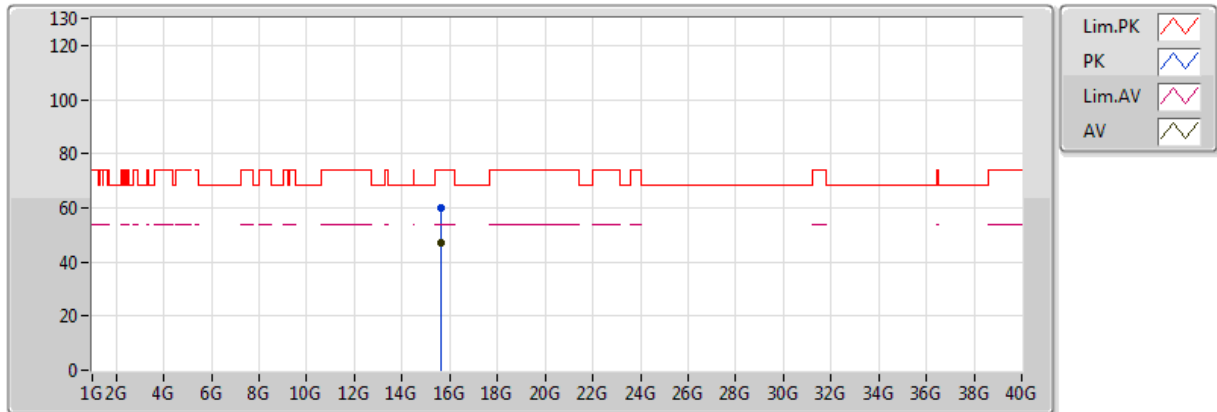


20171020
EUT_Z_2TX
Setting 21 (↑1 over)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.148G	49.53	54.00	-4.47	7.61	3	Horizontal	207	2.40					
AV	5.224G	91.52	Inf	-Inf	7.68	3	Horizontal	207	2.40					
AV	5.457G	46.39	54.00	-7.61	7.88	3	Horizontal	207	2.40					
PK	5.135G	62.57	74.00	-11.43	7.60	3	Horizontal	207	2.40					
PK	5.223G	102.14	Inf	-Inf	7.68	3	Horizontal	207	2.40					
PK	5.403G	58.89	74.00	-15.11	7.83	3	Horizontal	207	2.40					

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

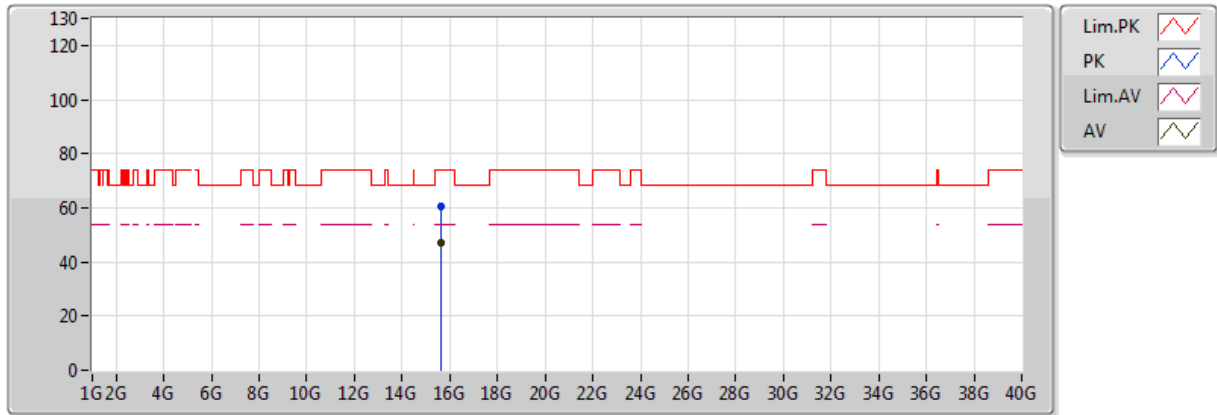


20171020
EUT_Z_2TX
Setting 21 (↑1 over)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.635G	46.95	54.00	-7.05	18.85	3	Vertical	119	2.11					
PK	15.62596G	60.10	74.00	-13.90	18.88	3	Vertical	119	2.11					

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

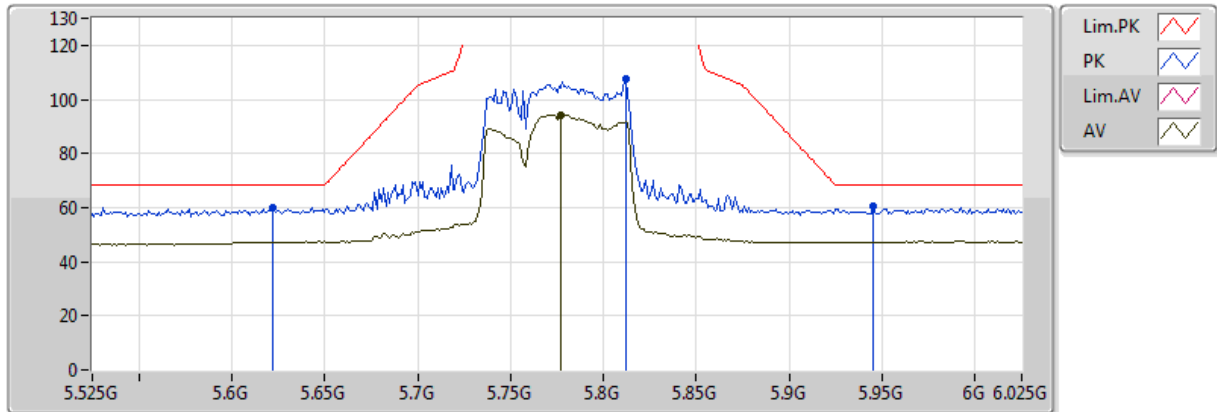


20171020
EUT_Z_2TX
Setting 21 (1 over)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.63234G	46.80	54.00	-7.20	18.86	3	Horizontal	274	2.83					
PK	15.62734G	60.54	74.00	-13.46	18.88	3	Horizontal	274	2.83					

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5775MHz_TX

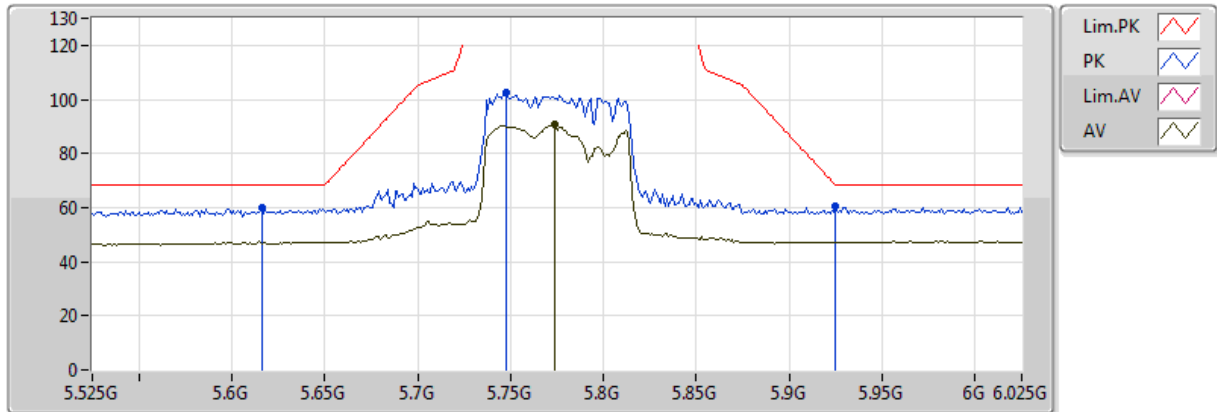


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.777G	94.22	Inf	-Inf	8.51	3	Vertical	71	2.69					
PK	5.622G	59.92	68.20	-8.28	8.19	3	Vertical	71	2.69					
PK	5.812G	107.45	Inf	-Inf	8.59	3	Vertical	71	2.69					
PK	5.945G	60.47	68.20	-7.73	8.96	3	Vertical	71	2.69					

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5775MHz_TX

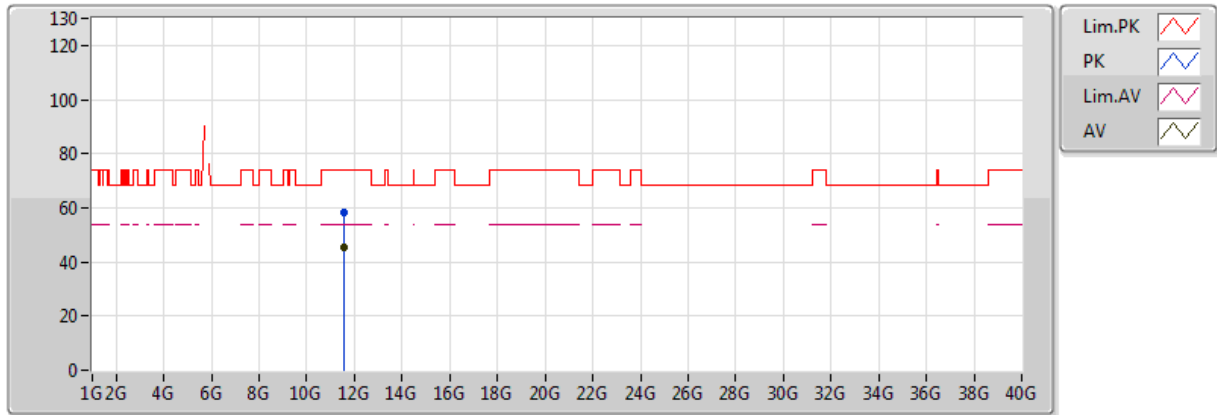


20171020
EUT_Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	5.774G	90.62	Inf	-Inf	8.51	3	Horizontal	68	1.26					
PK	5.616G	59.79	68.20	-8.41	8.18	3	Horizontal	68	1.26					
PK	5.748G	102.40	Inf	-Inf	8.45	3	Horizontal	68	1.26					
PK	5.925G	60.29	68.20	-7.91	8.91	3	Horizontal	68	1.26					

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5775MHz_TX

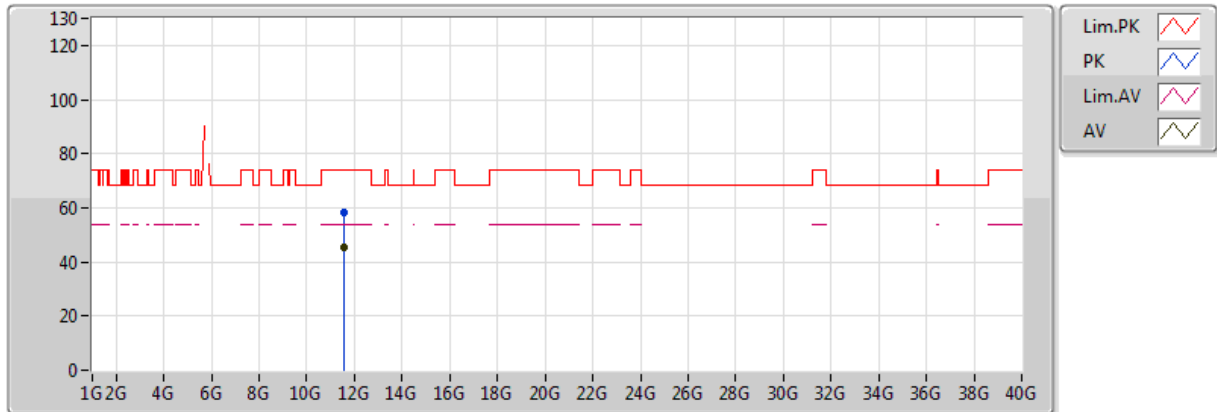


20171020
EUT Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.5528G	45.32	54.00	-8.68	17.70	3	Vertical	244	1.88					
PK	11.55374G	58.53	74.00	-15.47	17.70	3	Vertical	244	1.88					

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5775MHz_TX



20171020
EUT Z_2TX
Setting 22 (MAX)
05-C-4
FSV(100979)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.54502G	45.20	54.00	-8.80	17.71	3	Horizontal	79	2.38					
PK	11.54686G	58.53	74.00	-15.47	17.71	3	Horizontal	79	2.38					

Mode: 20 MHz / Ant. 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5199.9954	5199.9951	5199.9946	5199.9944
110.00	5199.9946	5199.9940	5199.9931	5199.9924
93.50	5199.9942	5199.9941	5199.9933	5199.9930
Max. Deviation (MHz)	0.0058	0.0060	0.0069	0.0076
Max. Deviation (ppm)	1.12	1.15	1.33	1.46
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5199.9958	5199.9951	5199.9941	5199.9934
10	5199.9951	5199.9948	5199.9946	5199.9938
20	5199.9946	5199.9944	5199.9943	5199.9939
30	5199.9885	5199.9879	5199.9872	5199.9869
40	5199.9866	5199.9864	5199.9854	5199.9846
Max. Deviation (MHz)	0.0134	0.0136	0.0146	0.0154
Max. Deviation (ppm)	2.58	2.62	2.81	2.96
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5784.9954	5784.9952	5784.9944	5784.9935
110.00	5784.9946	5784.9936	5784.9928	5784.9920
93.50	5784.9945	5784.9943	5784.9939	5784.9938
Max. Deviation (MHz)	0.0055	0.0064	0.0072	0.0080
Max. Deviation (ppm)	0.95	1.11	1.24	1.38
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5784.9979	5784.9973	5784.9965	5784.9961
10	5784.9965	5784.9963	5784.9954	5784.9950
20	5784.9946	5784.9941	5784.9939	5784.9934
30	5784.9885	5784.9879	5784.9873	5784.9869
40	5784.9880	5784.9878	5784.9870	5784.9869
Max. Deviation (MHz)	0.0130	0.0122	0.0130	0.0131
Max. Deviation (ppm)	2.25	2.11	2.25	2.26
Result	Pass			

Mode: 40 MHz / Ant. 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5189.9954	5189.9944	5189.9936	5189.9930
110.00	5189.9946	5189.9937	5189.9930	5189.9922
93.50	5189.9945	5189.9939	5189.9931	5189.9924
Max. Deviation (MHz)	0.0055	0.0063	0.0070	0.0078
Max. Deviation (ppm)	1.06	1.21	1.35	1.50
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5189.9957	5189.9952	5189.9945	5189.9940
10	5189.9953	5189.9950	5189.9944	5189.9934
20	5189.9946	5189.9945	5189.9936	5189.9932
30	5189.9885	5189.9880	5189.9874	5189.9870
40	5189.9878	5189.9876	5189.9870	5189.9865
Max. Deviation (MHz)	0.0122	0.0124	0.0130	0.0135
Max. Deviation (ppm)	2.35	2.39	2.50	2.60
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5754.9952	5754.9946	5754.9939	5754.9929
110.00	5754.9946	5754.9940	5754.9938	5754.9932
93.50	5754.9939	5754.9933	5754.9932	5754.9930
Max. Deviation (MHz)	0.0061	0.0067	0.0068	0.0071
Max. Deviation (ppm)	1.06	1.16	1.18	1.23
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5754.9956	5754.9951	5754.9943	5754.9939
10	5754.9952	5754.9951	5754.9943	5754.9938
20	5754.9946	5754.9940	5754.9938	5754.9932
30	5754.9885	5754.9882	5754.9873	5754.9867
40	5754.9871	5754.9870	5754.9861	5754.9860
Max. Deviation (MHz)	0.0129	0.0130	0.0139	0.0140
Max. Deviation (ppm)	2.24	2.26	2.42	2.43
Result	Pass			

Mode: 80 MHz / Ant. 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5209.9949	5209.9945	5209.9942	5209.9933
110.00	5209.9946	5209.9944	5209.9936	5209.9933
93.50	5209.9942	5209.9936	5209.9928	5209.9920
Max. Deviation (MHz)	0.0058	0.0064	0.0072	0.0080
Max. Deviation (ppm)	1.11	1.23	1.38	1.54
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5209.9956	5209.9950	5209.9943	5209.9940
10	5209.9955	5209.9948	5209.9945	5209.9942
20	5209.9946	5209.9942	5209.9933	5209.9929
30	5209.9885	5209.9882	5209.9874	5209.9869
40	5209.9878	5209.9875	5209.9870	5209.9866
Max. Deviation (MHz)	0.0122	0.0125	0.0130	0.0134
Max. Deviation (ppm)	2.34	2.40	2.50	2.57
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9955	5774.9948	5774.9946	5774.9938
110.00	5774.9946	5774.9942	5774.9937	5774.9932
93.50	5774.9943	5774.9941	5774.9932	5774.9930
Max. Deviation (MHz)	0.0057	0.0059	0.0068	0.0070
Max. Deviation (ppm)	0.99	1.02	1.18	1.21
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5775.0000	5774.9966	5774.9957	5774.9949
10	5774.9964	5774.9956	5774.9950	5774.9946
20	5774.9946	5774.9940	5774.9931	5774.9924
30	5774.9885	5774.9883	5774.9877	5774.9867
40	5774.9873	5774.9868	5774.9866	5774.9861
Max. Deviation (MHz)	0.0127	0.0132	0.0134	0.0139
Max. Deviation (ppm)	2.20	2.29	2.32	2.41
Result	Pass			

